Analytical Resources, LLC
Analytical Chemists and Consultants

10 February 2023

Ali Judkins
Anchor QEA, LLC
1201 3rd Ave, Suite 2600
Seattle, WA 98101

RE: AOC5 MR Phase 1

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
22L0459	N/A

Susan Dunnihoo

Digitally signed by Susan Dunnihoo
Date: 2023.02.10 11:49:50 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Susan Dunnihoo, Director, Client Services

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ACCREDITED IN ACCORDANCE WITH nelac
Cert# 100006-012

1 of 1

22L0459

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3370

Project/Client Name: AOC5 MR Phase 1
Project Number: 210075.01.02
Contact Name: Amara Vandervort
Sampled By: Windward

Ship to: ARI
Attn: Sue Dunninoo
Shipper: Courier
Form filled out by: AV/CC

Shipping Date: 12/16/2022
Airbill Number: —
Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCBs	SMS SVOCs	SMS Metals	D/F	Total solids/TOC	Archive		Comments / Instructions [Jar tag number(s)]
12/16/22	0819	LDW23-SC1123B	3	sediment	X	X	X		X	X		
	0912	LDW23-SC1053C	4		X	X	X	X	X	X		
	0950	LDW23-SC1039C	3		X	X	X		X	X		
	1043	LDW23-SC1007B	3		X	X	X		X	X		
	1120	LDW23-SC1002C	3		X	X	X		X	X		
	1201	LDW23-SC1070B	4		X	X	X	X	X	X		
	1238	LDW23-SC1091B	3		X	X	X		X	X		
		Total Number of Containers	23		Purchase Order / Statement of Work # APJ-110222-AOC5-ARL							

AV 12/16/22

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandervort	YARED	Print name: SCOTT YARED	
Signature: AVandervort		Signature:	
Company: Windward	Company: YA YA SAFETY	Company: YA YA SAFETY	Company: ARI
Date/Time: 12/16/22 15:00	Date/Time: 12/16/22 3:00PM	Date/Time: 12/16/22 1547	Date/Time: 12/16/22 1547

* Distribution: White copies accompany shipment; yellow retained by consignor.

Wind Ward environmental LLC
200 1st Ave W, Suite 500
Seattle, WA 98119
206.378.1364

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward
Project Name: 210075.01.02
COC No(s): 3370 NA
Delivered by: Fed-Ex UPS Courier Hand Delivered Other:
Assigned ARI Job No: 22L459
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)
Time 1547 — 5.5 1.6 2.3 2.4

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 4708

Cooler Accepted by: RM Date: 12/16/22 Time: 1547

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used? … Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:			
Was sufficient ice used (if appropriate)?	NA	YES	NO
How were bottles sealed in plastic bags?	Individually	Grouped	Not
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) …	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: JSm Date: 12/17/22 Time: 1021 Labels checked by: JSm

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle, WA 98101	Project Manager: Ali Judkins	02/10/2023 10:52

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22L0459-01	LDW23-SC1123B	Solid	12/16/22 08:19	12/16/22 15:47
22L0459-02	LDW23-SC1053C	Solid	12/16/22 09:12	12/16/22 15:47
22L0459-03	LDW23-SC1039C	Solid	12/16/22 09:50	12/16/22 15:47
22L0459-04	LDW23-SC1007B	Solid	12/16/22 10:43	12/16/22 15:47
22L0459-05	LDW23-SC1002C	Solid	12/16/22 11:20	12/16/22 15:47
22L0459-06	LDW23-SC1070B	Solid	12/16/22 12:01	12/16/22 15:47
22L0459-07	LDW23-SC1091B	Solid	12/16/22 12:38	12/16/22 15:47

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	10-Feb-2023 10:52

Case Narrative

Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Work Order: 22L0459

Sample receipt

Samples as listed on the preceding page were received 16-Dec-2022 15:47 under ARI work order 22L0459. For details regarding sample receipt, please refer to the Cooler Receipt Form. Samples were frozen on reciept to preserve holding times.

Semivolatiles - EPA Method SW8270E

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) recoveries were low of limits for several compounds. The blank spike duplicate (BSD/LCSD) spike recoveries were within control limits and the relative percent difference (RPD) were all high of control limits. Because the LCSD was within control and the MS/MSD results were within control limits, the data is flagged, the lab apprised of the issue and no further corrective action was taken.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits.

The reference material (SRM) percent recoveries were within control limits.

Semivolatiles - EPA Method SW8270E-SIM

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries were within control limits. The relative percent difference (RPD) were outside control limits, flagged on the summary sheet.

The matrix spike (MS) recoveries were within advisory control limits. The matrix spike duplicate (MSD) percent recovery for pentachlorophenol was high of control limits and flagged on the summary sheet. The relative percent difference (RPD) were outside advisory control limits for benzoic acid and 2,4-dimethyl phenol and flagged on the summary sheet.

The reference material (SRM) percent recoveries were within control limits.

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	10-Feb-2023 10:52

Case Narrative

PCB Aroclors - EPA Method SW8082A

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits.

The reference material (SRM) percent recoveries were within control limits.

Pesticides - EPA Method SW8081B (Hexachlorobenzene)

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries for tetrachlorometaxylene (TCMX) was low of control limits in sample LDW23-SC1002C and flagged on the summary sheet. TCMX is an indicator for blow down and is not associated with any of the target aroclors.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits.

Dioxin/Furans - EPA Method 1613

The sample(s) were extracted and analyzed within the recommended holding times. Analysis was performed using an application specific column developed by Restek. The RTX-DIoxin2 column has unique isomer separation for the 2378-TCDF, eliminating the need for confirmation analysis.

Initial and continuing calibrations were within method requirements.

Labeled internal standard areas were within limits.

The cleanup surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The OPR (Ongoing Precision and Recovery) standard percent recoveries were within control limits.

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	10-Feb-2023 10:52

Case Narrative

The batch BLA0079 duplicate (DUP) relative percent difference (RPD) were outside advisory control limits for several compounds, flagged on the summary sheet reported under work order 22L0383.

The reference material (SRM) percent recoveries were within control limits.

Total Metals - EPA Method 6020B

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits, with low level response or EMPC response below the reporting limit for a number of targets. Associated positive results have been "B"-flagged.

The blank spike (BS/LCS) percent recoveries were within control limits.

The batch BKL0608 matrix spike/matrix spike duplicate (MS/MSD) percent recoveries for silver were low of advisory control limits. The relative percent difference (RPD) were within advisory control limits. A post spike had acceptable recoveries. As the matrix QC is reported under work order 22L0329, only arsenic reported for this batch.

The batch BKL0608 duplicate (DUP) relative percent difference (RPD) were within advisory control limits. As the DUP was reported under work order 22L0329, only arsenic is reported for the batch.

The reference material (SRM) percent recoveries were within control limits.

Total Mercury - EPA Method 7471B

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The reference material (SRM) percent recoveries were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits.

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Wet Chemistry (Total Organic Carbon)

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The reference material (SRM) percent recoveries were within control limits.

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	10-Feb-2023 10:52

Case Narrative

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

QUALIFIERS AND NOTES

Qualifier	Definition
X	Indicates possible CDPE interference.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
P1	The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.
M	Estimated value for a GC/MS analyte detected and confirmed by an analyst but with low spectral match parameters.
L	Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to +/- RL instead of 20% RPD
J	Estimated concentration value detected below the reporting limit.
HC	The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
EMPC	Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
D	The reported value is from a dilution
B	This analyte was detected in the method blank.
*	Flagged value is not within established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1123B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-01 A	SDG:	22L0459
Sampled:	12/16/22 08:19	Prepared:	01/05/23 16:13	File ID:	NT1402032309.D
% Solids:	56.64	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 17:56
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	17.66 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	16.0	J	4.4	20.0
106-44-5	4-Methylphenol	1	84.0		7.4	20.0
91-20-3	Naphthalene	1	28.4		4.2	20.0
91-57-6	2-Methylnaphthalene	1	21.5		4.5	20.0
208-96-8	Acenaphthylene	1	20.0	U	6.2	20.0
131-11-3	Dimethylphthalate	1	12.9	J	4.4	20.0
83-32-9	Acenaphthene	1	11.8	J	5.2	20.0
132-64-9	Dibenzofuran	1	14.8	J	14.1	20.0
86-73-7	Fluorene	1	20.0	U	14.6	20.0
85-01-8	Phenanthrene	1	93.4		8.7	20.0
120-12-7	Anthracene	1	34.7		7.2	20.0
206-44-0	Fluoranthene	1	320		6.1	20.0
129-00-0	Pyrene	1	786		5.7	20.0
85-68-7	Butylbenzylphthalate	1	45.2		9.4	20.0
56-55-3	Benzo(a)anthracene	1	103		6.0	20.0
218-01-9	Chrysene	1	139		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	511		5.5	50.0
	Benzofluoranthenes, Total	1	484		10.0	40.0
50-32-8	Benzo(a)pyrene	1	184		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	98.2		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	30.3		17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	117		13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.80	427	56.9	27 - 120	
Phenol-d5	749.80	428	57.1	29 - 120	
2-Chlorophenol-d4	749.80	508	67.8	31 - 120	
1,2-Dichlorobenzene-d4	499.87	317	63.4	32 - 120	
Nitrobenzene-d5	499.87	322	64.4	30 - 120	
2-Fluorobiphenyl	499.87	350	70.0	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1123B

Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-01 A	SDG:	22L0459
Sampled:	12/16/22 08:19	Prepared:	01/05/23 16:13	File ID:	NT1402032309.D
% Solids:	56.64	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 17:56
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	17.66 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	749.80	607	80.9	24 - 134	
p-Terphenyl-d14	499.87	497	99.5	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032309.D

Page 1

Date : 03-FEB-2023 17:56

Client ID:

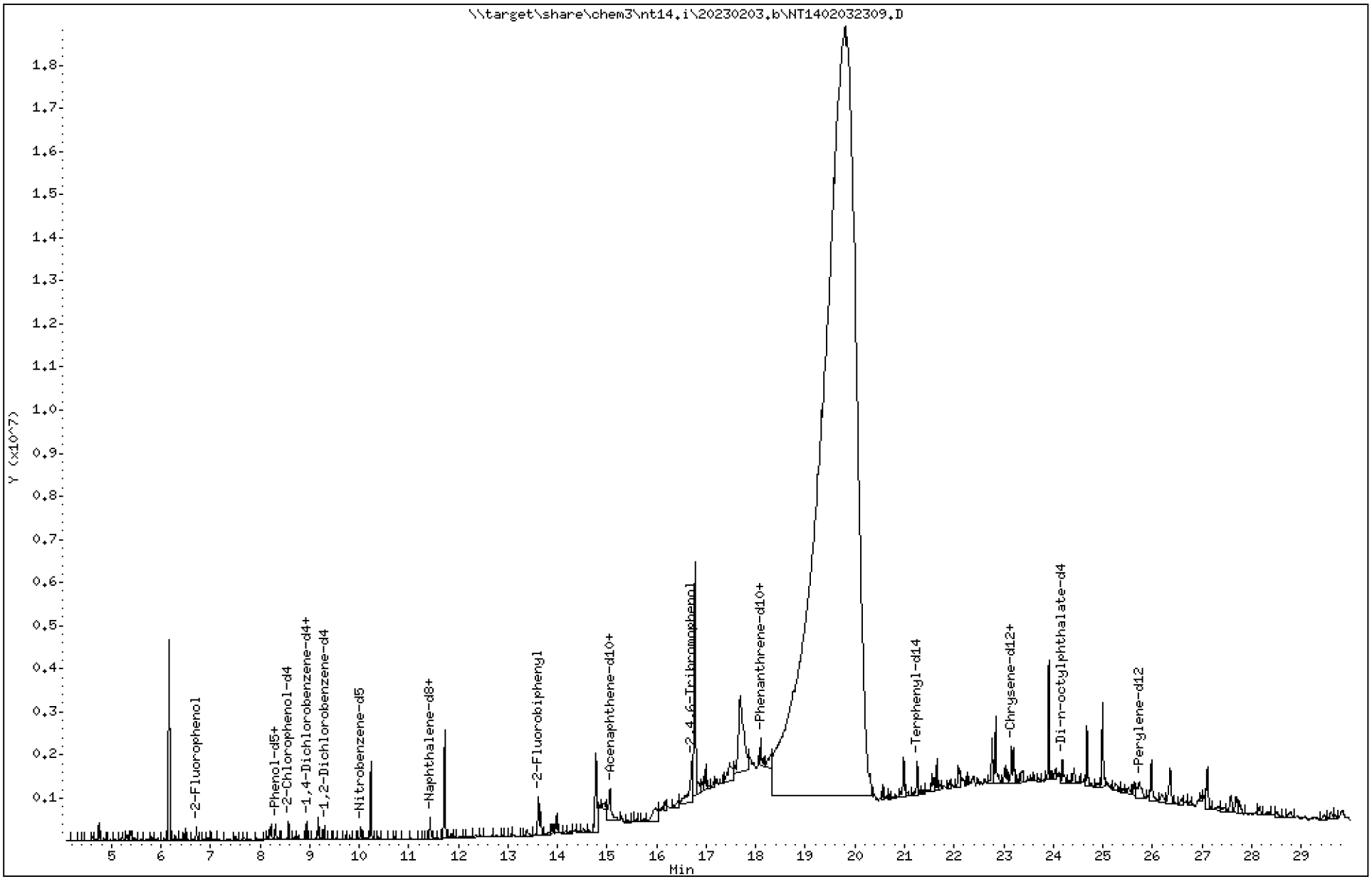
Instrument: nt14.i

Sample Info: 22L0459-01

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

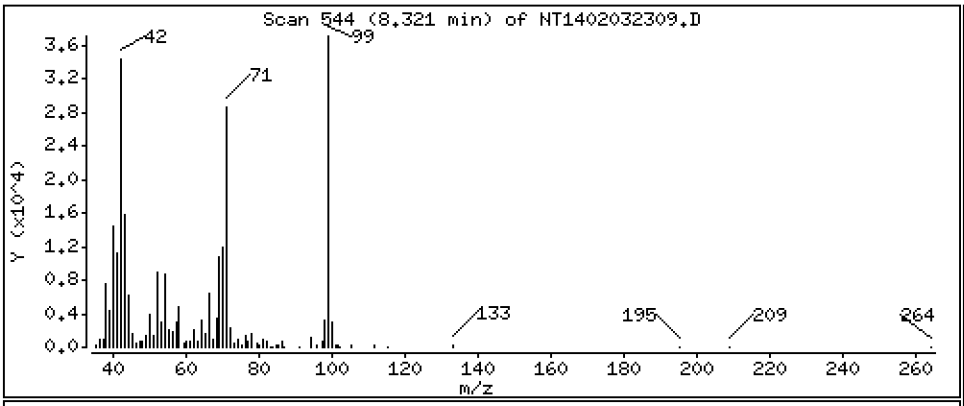
Operator: DSD

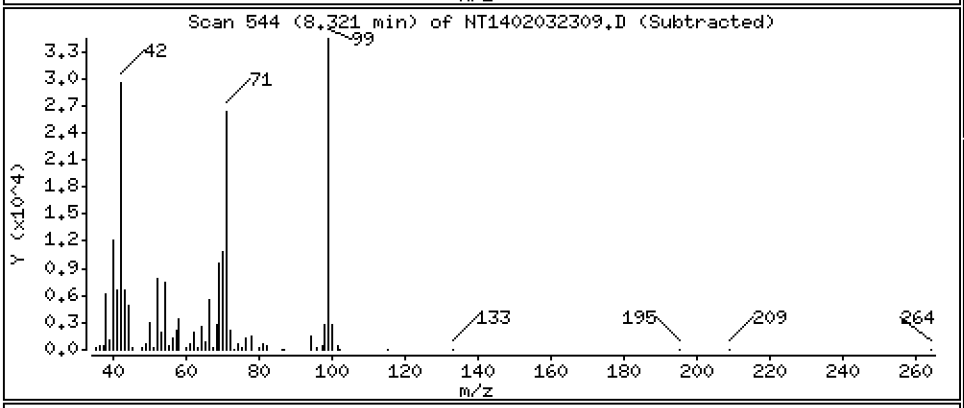
Column phase: ZB-5msi

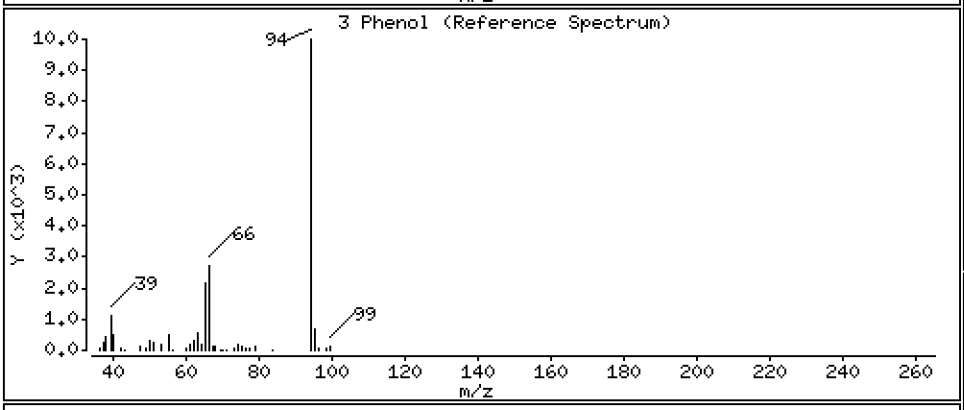
Column diameter: 0.25

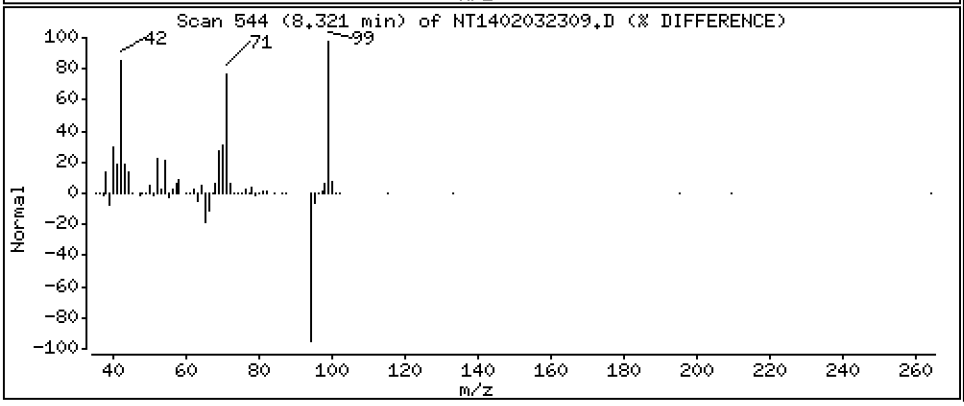
3 Phenol

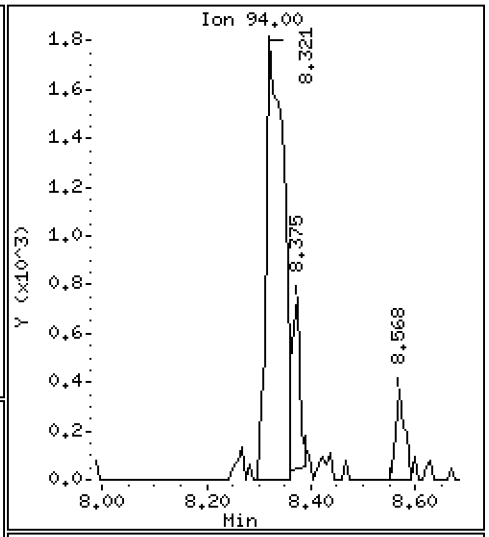
Concentration: 0.1605 ug/mL

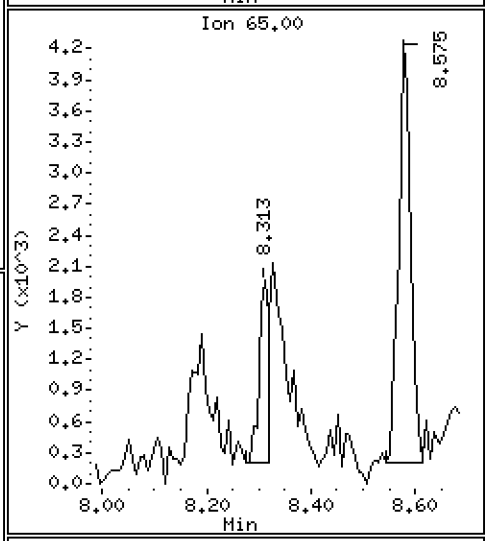


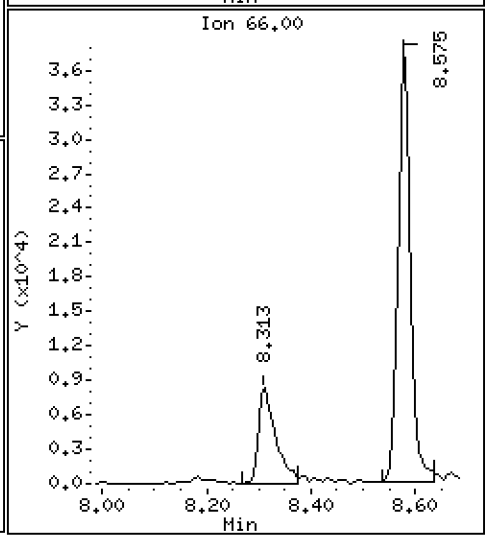












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032309.D

Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

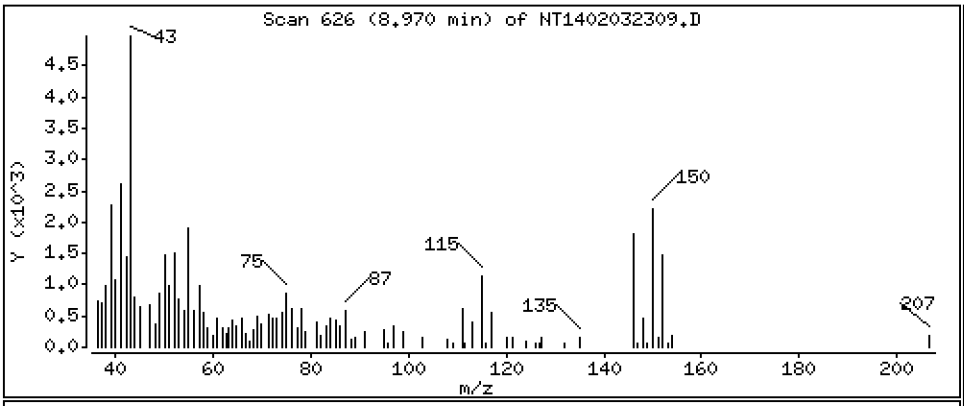
Operator: DSD

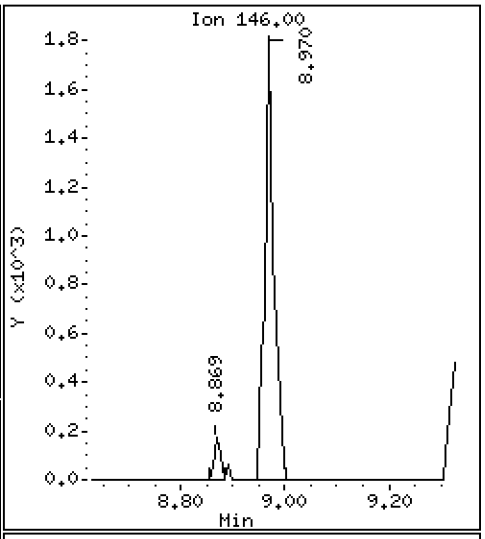
Column phase: ZB-5msi

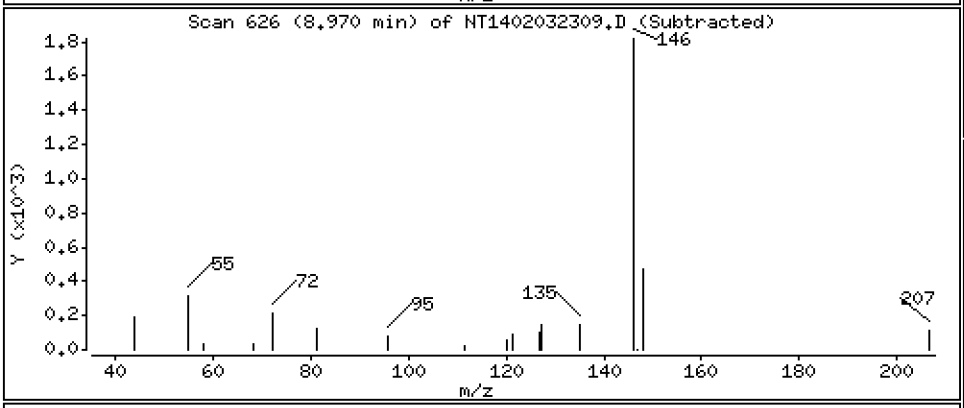
Column diameter: 0.25

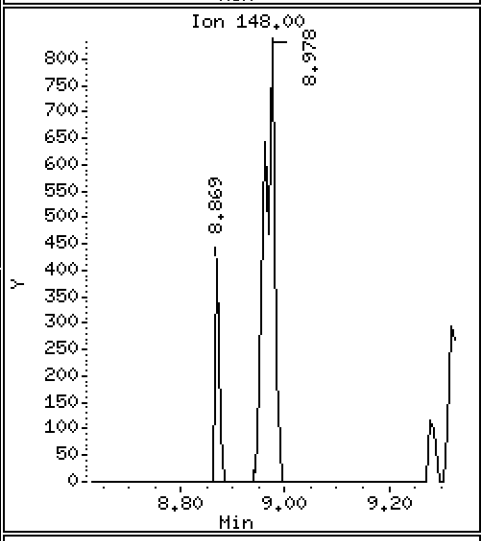
9 1,4-Dichlorobenzene

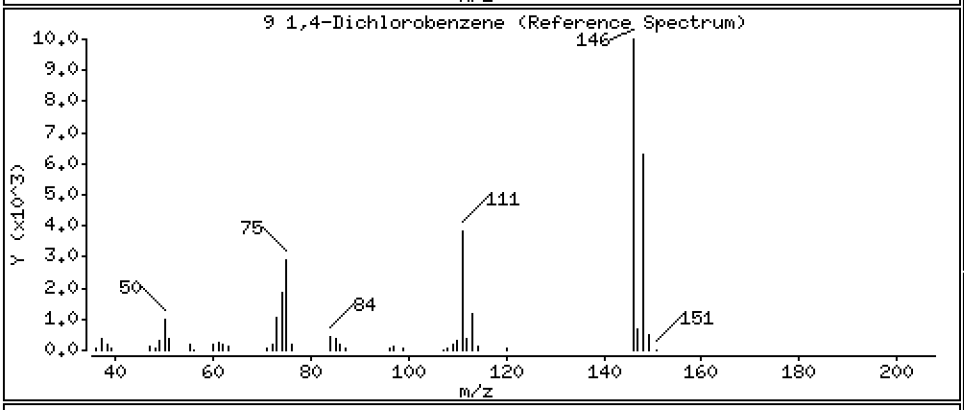
Concentration: 0.09213 ug/mL

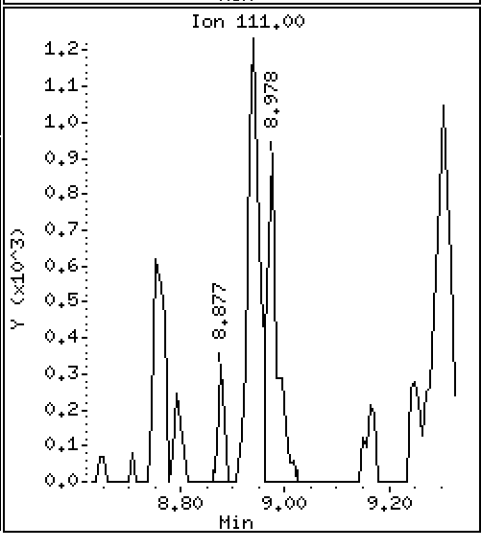


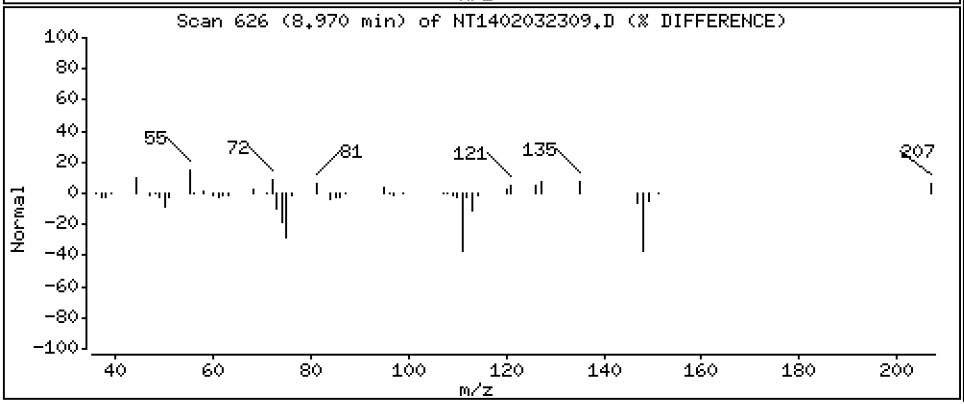












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

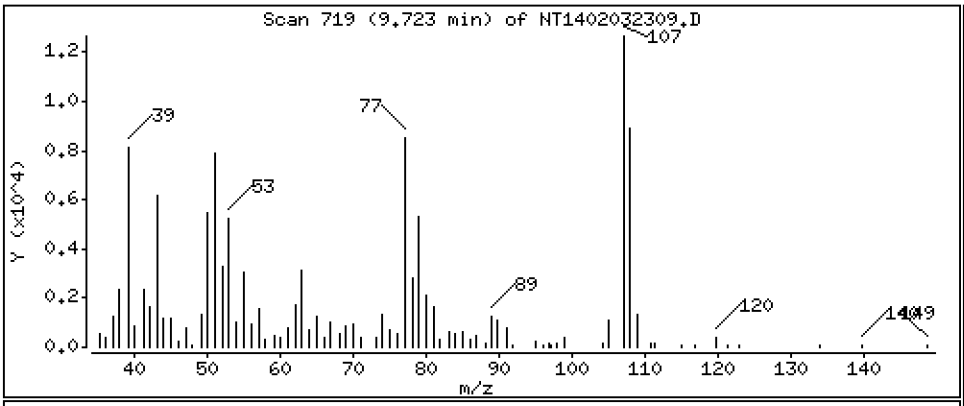
Operator: DSD

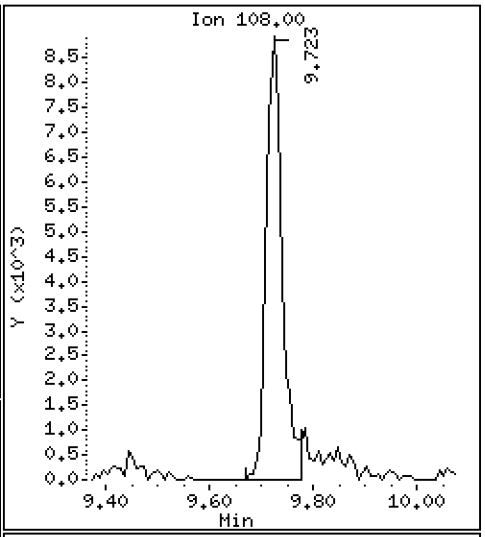
Column phase: ZB-5msi

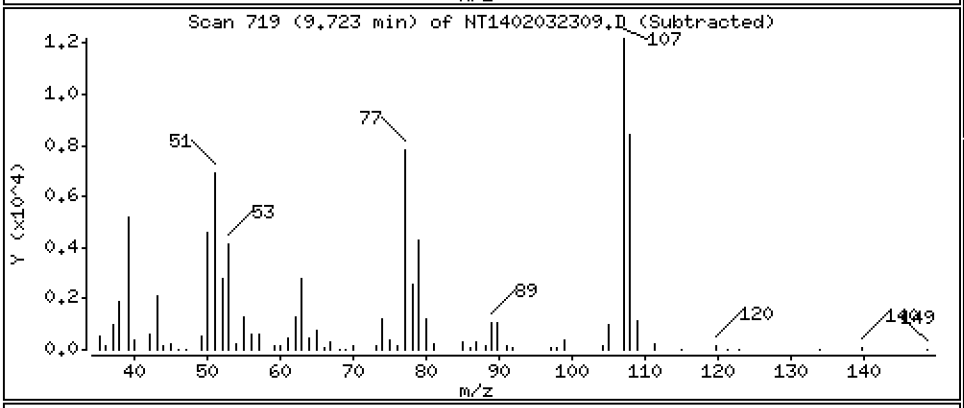
Column diameter: 0.25

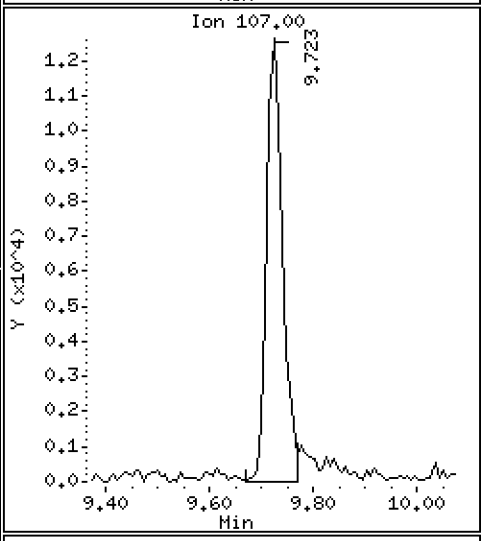
15 4-Methylphenol

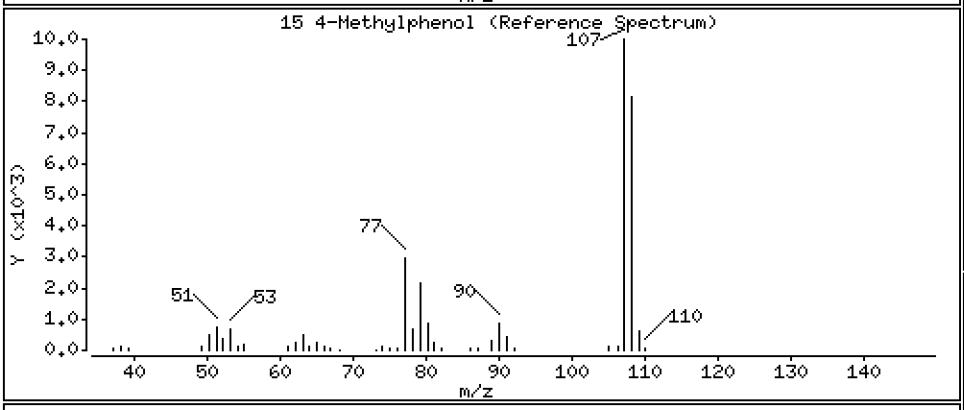
Concentration: 0.8407 ug/mL

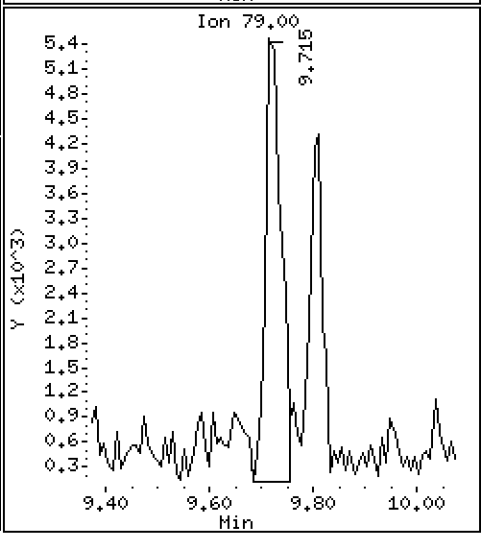


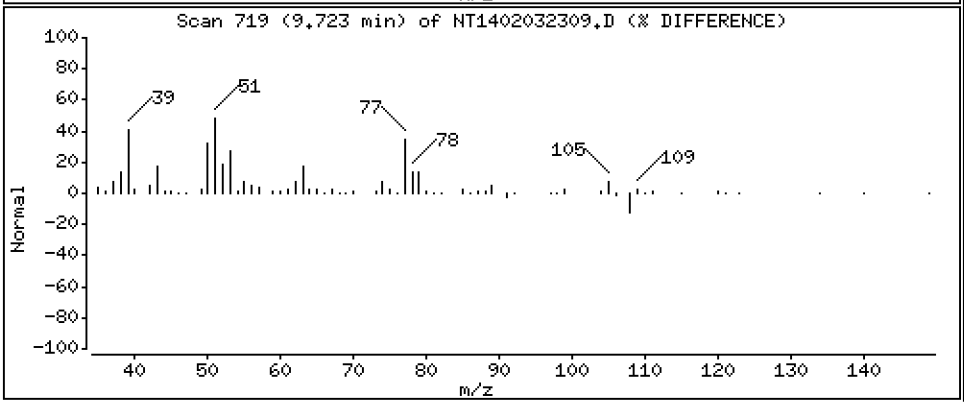












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

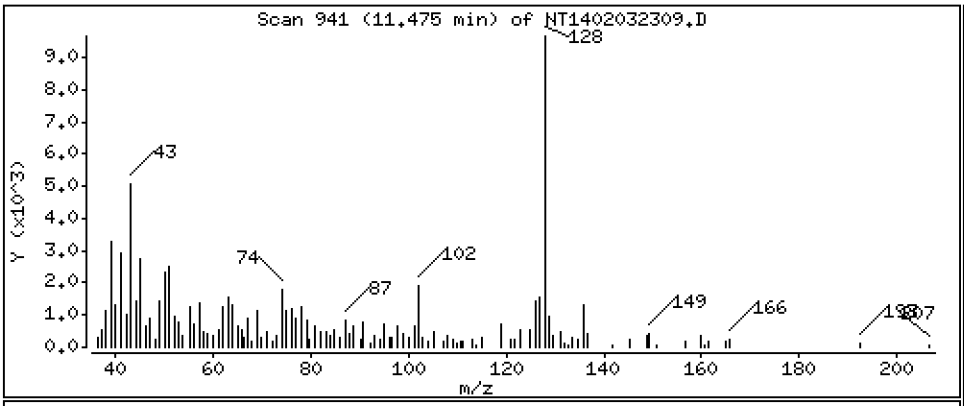
Operator: DSD

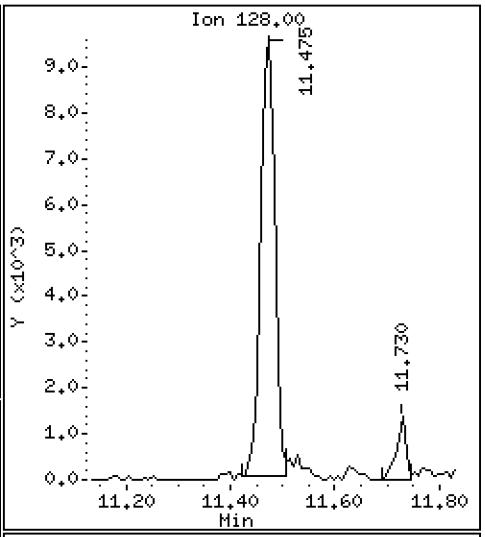
Column phase: ZB-5msi

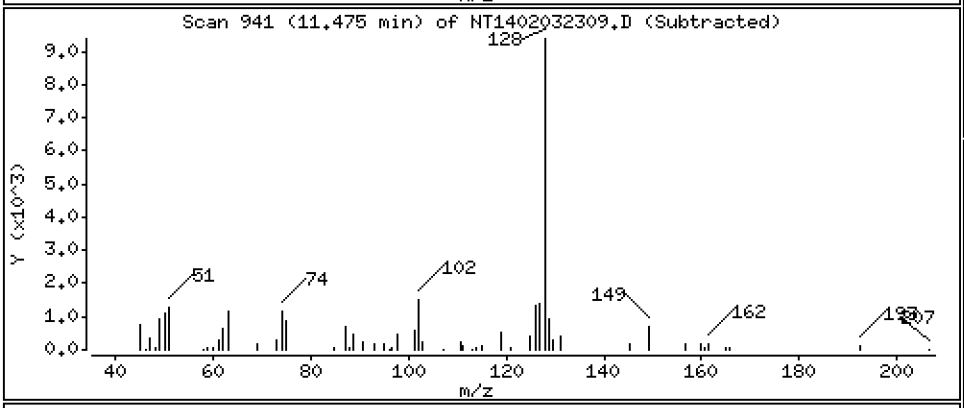
Column diameter: 0.25

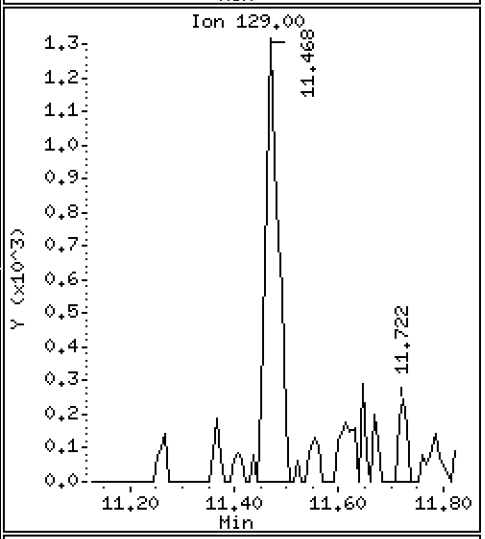
28 Naphthalene

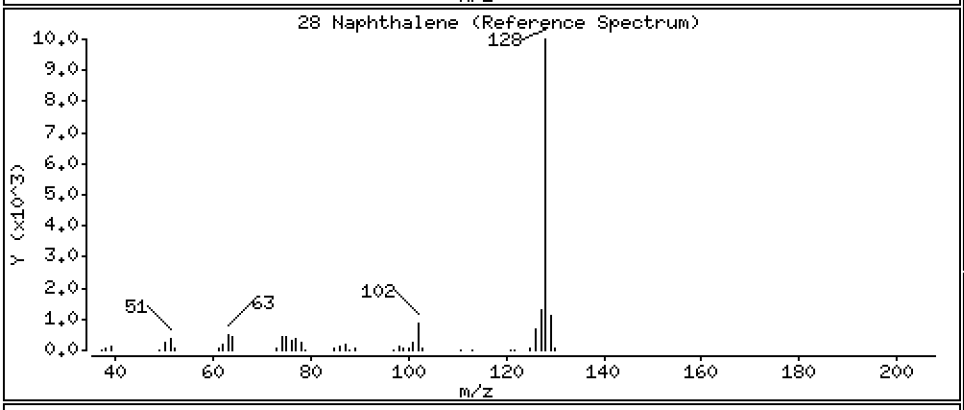
Concentration: 0.2840 ug/mL

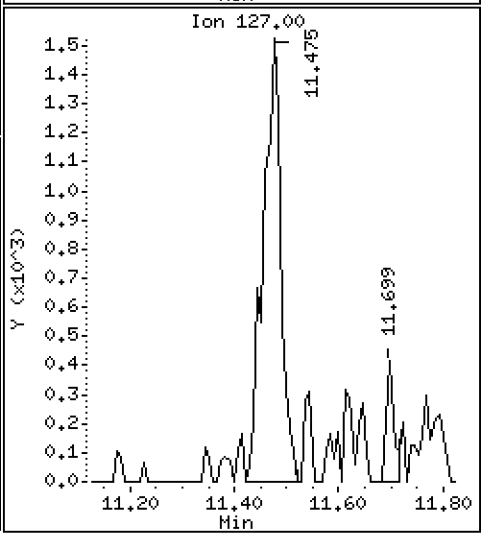


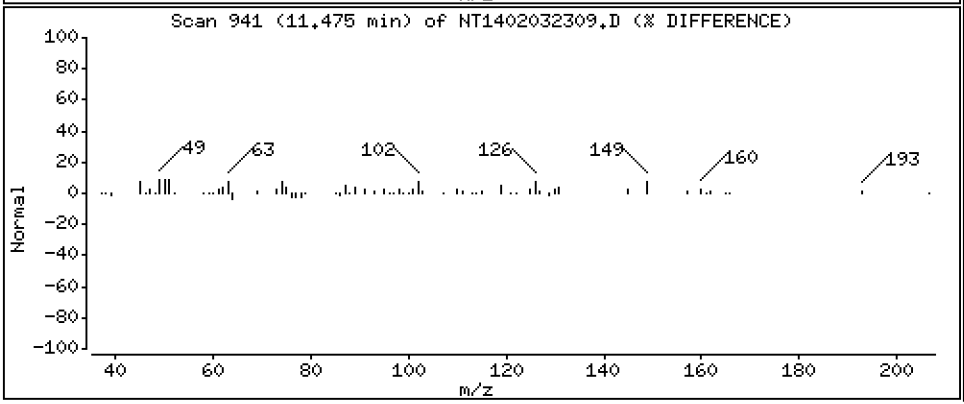












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

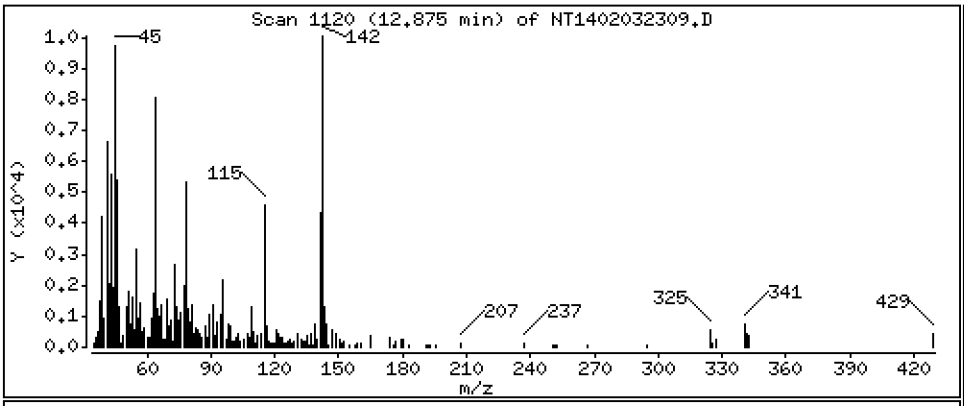
Operator: DSD

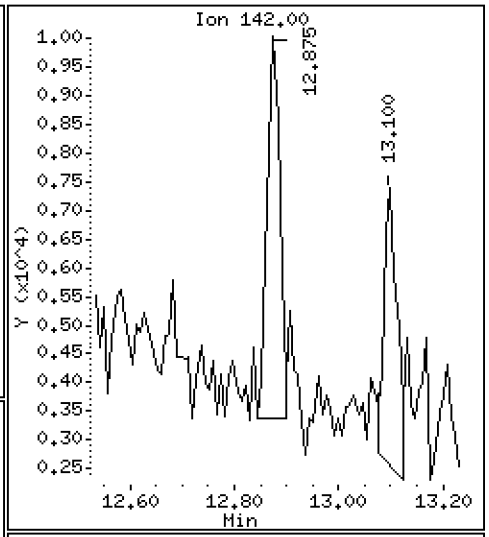
Column phase: ZB-5msi

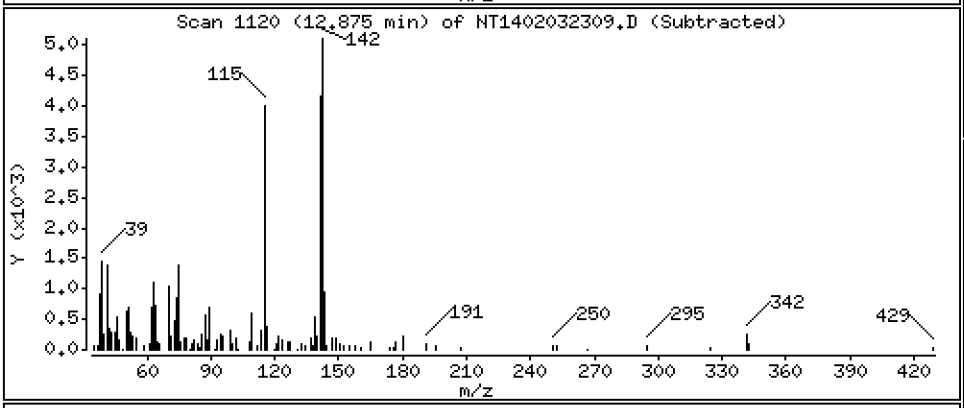
Column diameter: 0.25

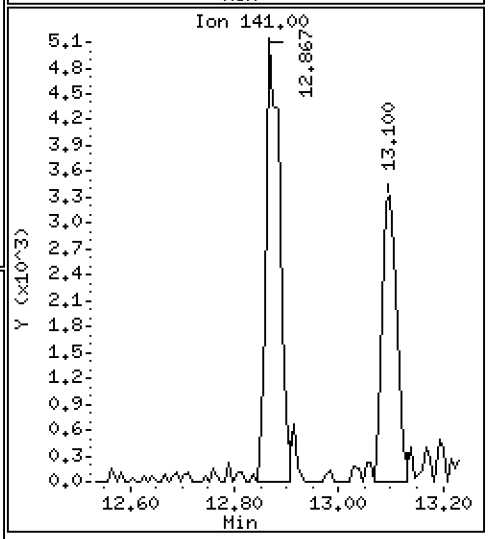
32 2-Methylnaphthalene

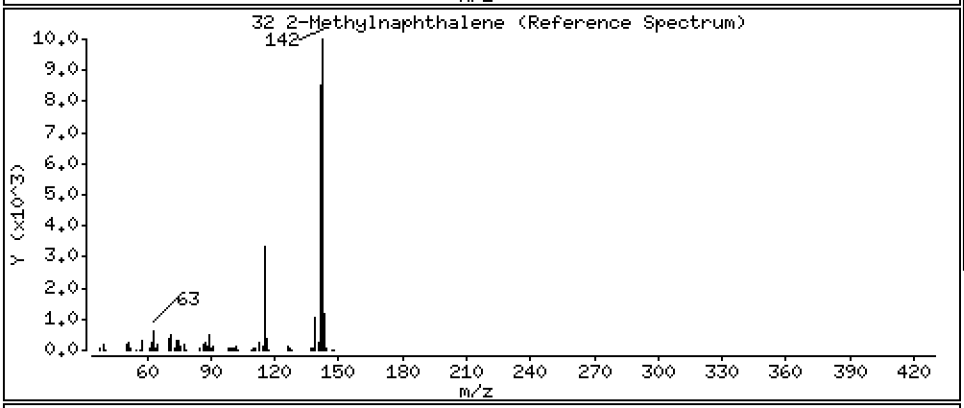
Concentration: 0.2154 ug/mL

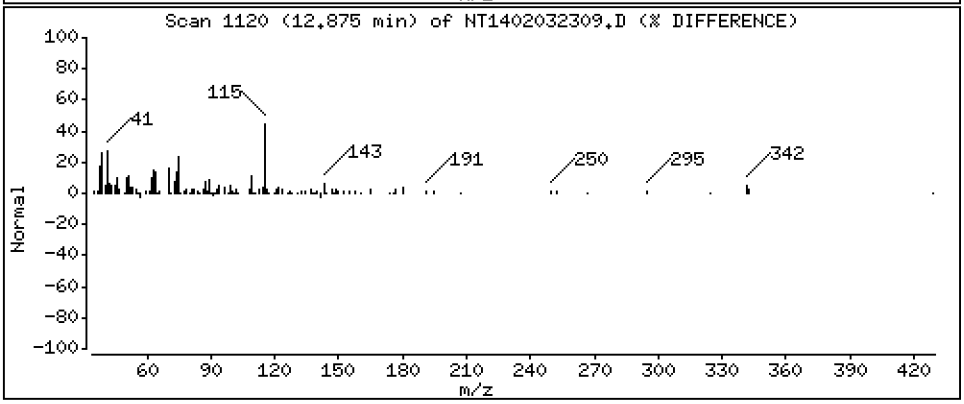












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

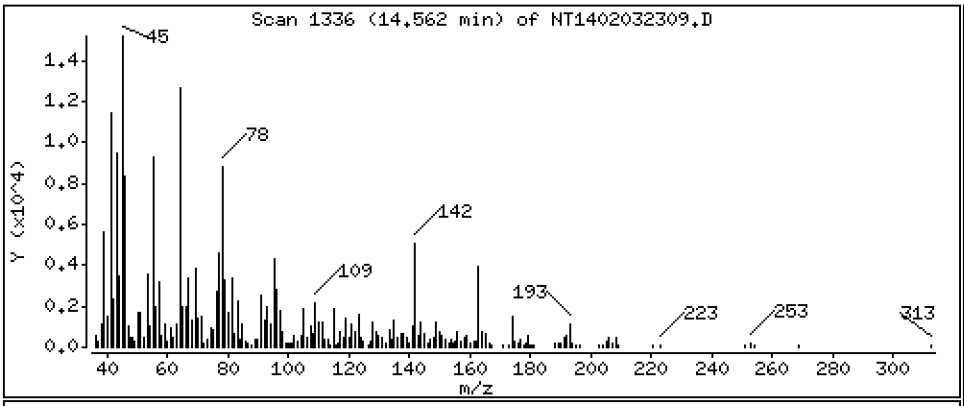
Operator: DSD

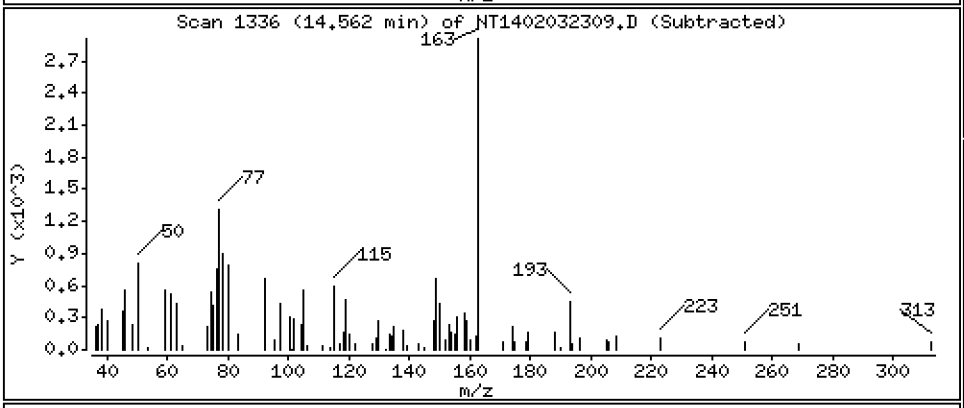
Column phase: ZB-5msi

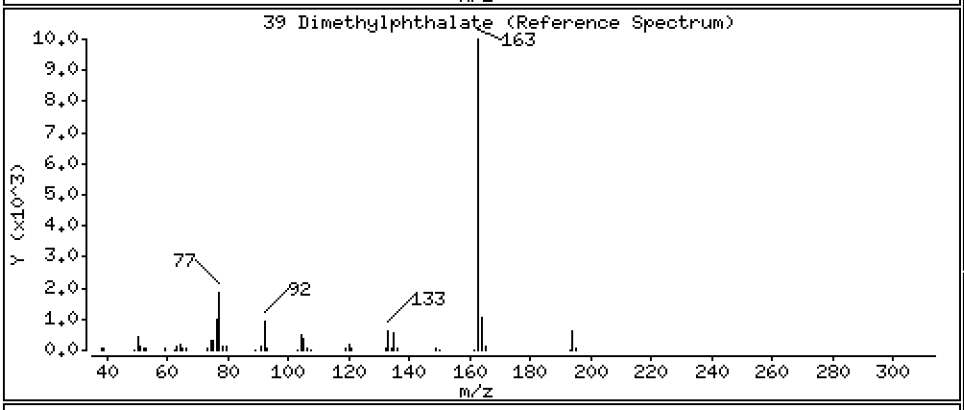
Column diameter: 0.25

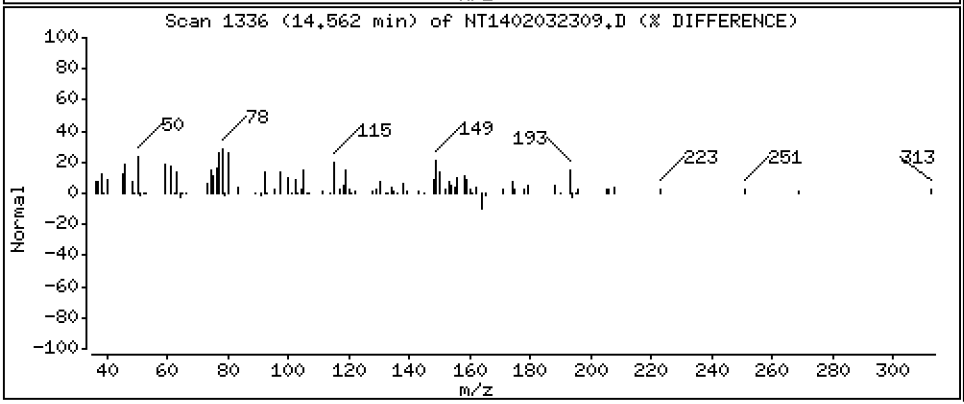
39 Dimethylphthalate

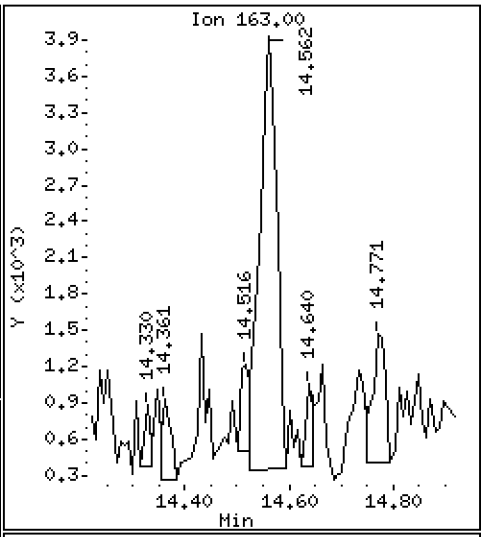
Concentration: 0.1289 ug/mL

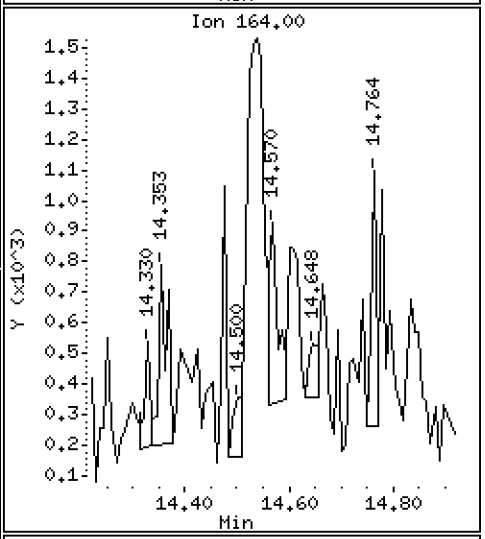


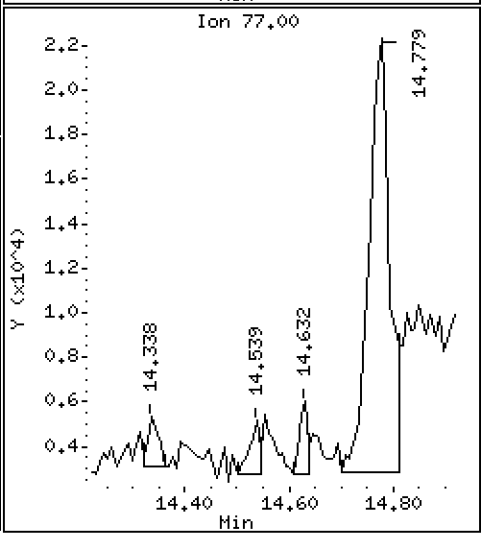












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

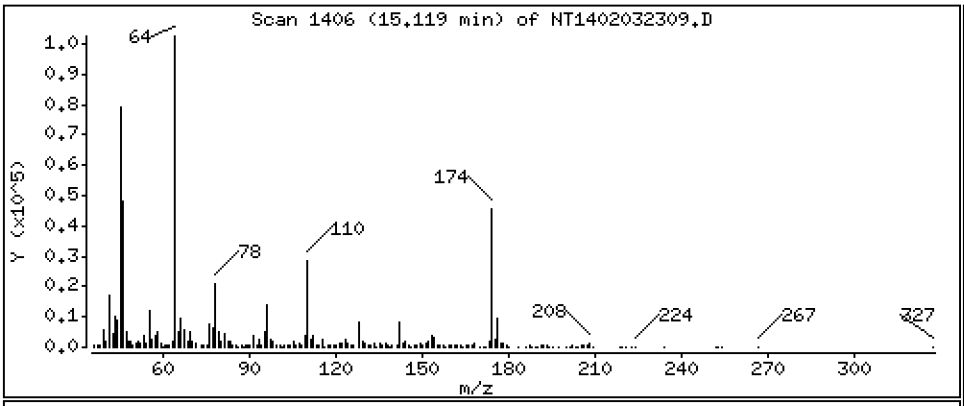
Operator: DSD

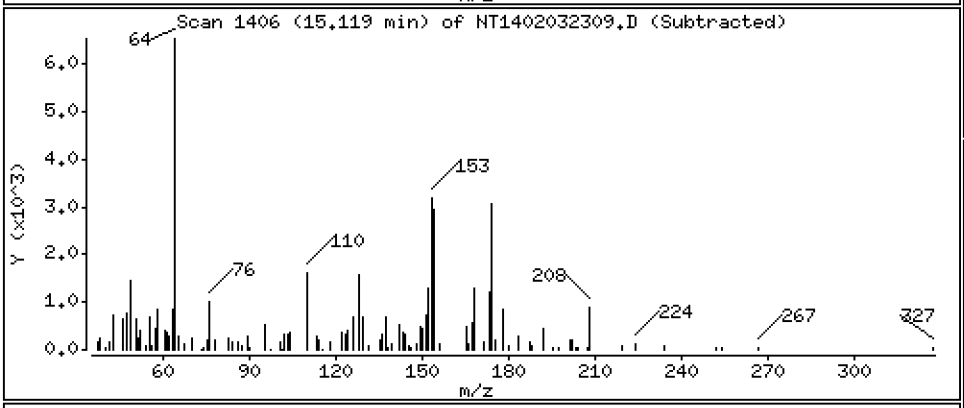
Column phase: ZB-5msi

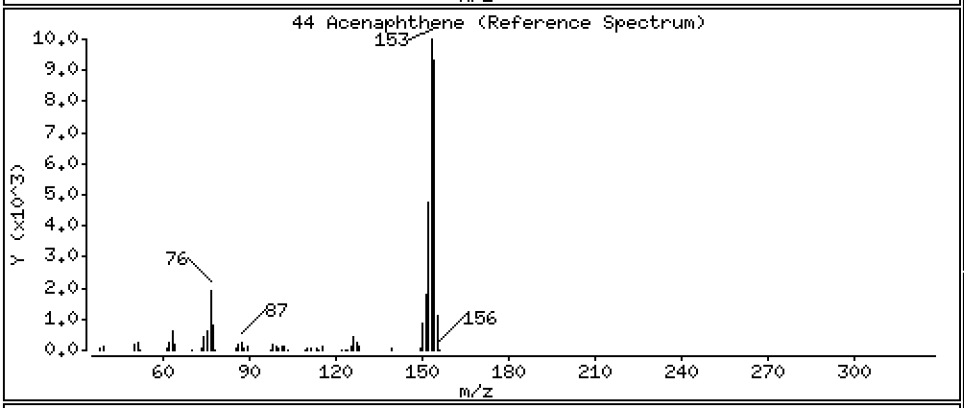
Column diameter: 0.25

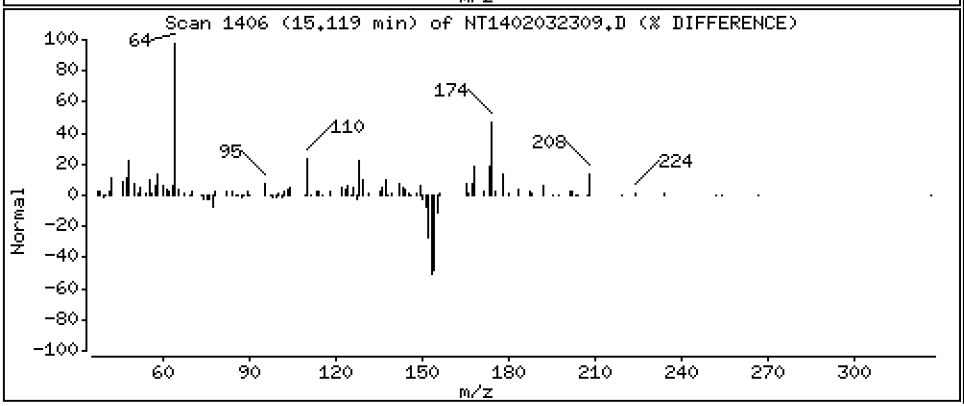
44 Acenaphthene

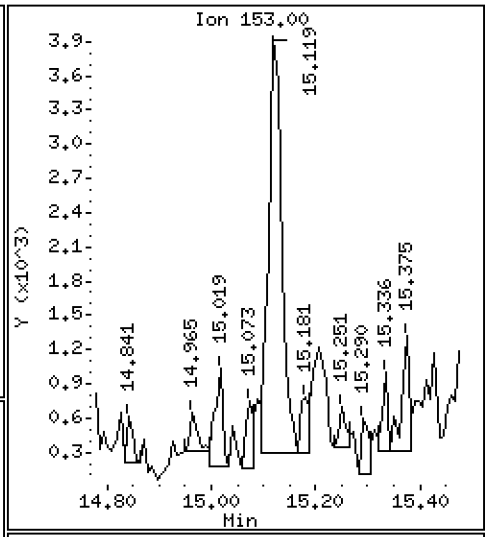
Concentration: 0.1176 ug/mL

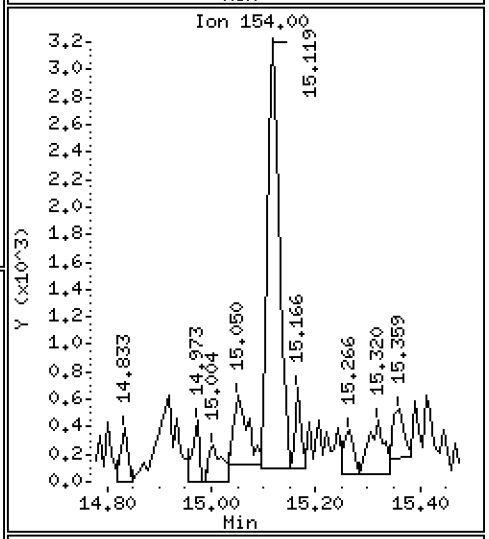


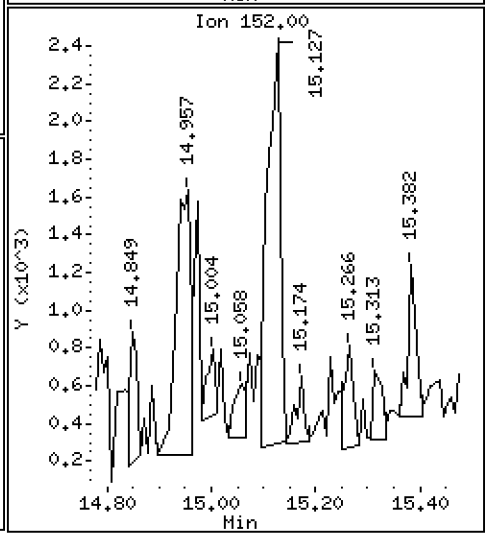












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

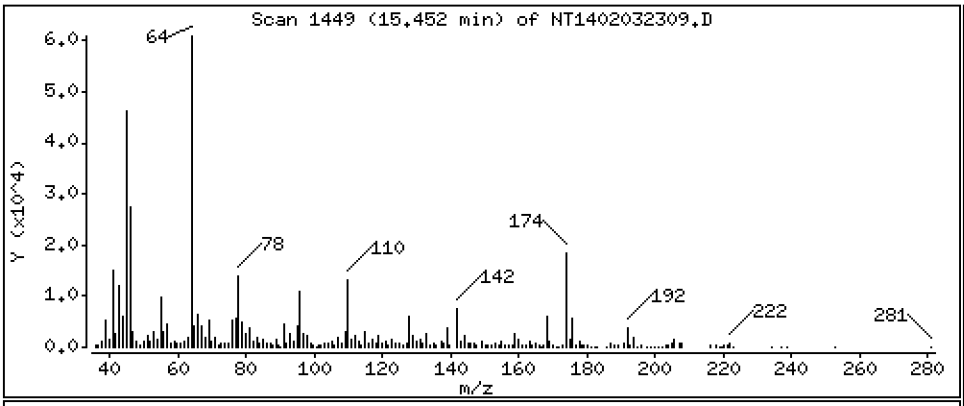
Operator: DSD

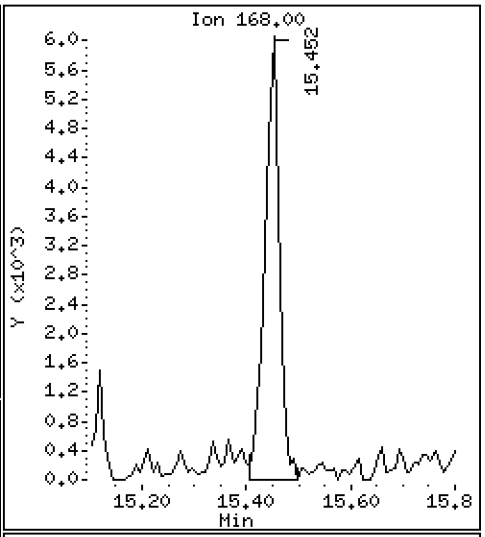
Column phase: ZB-5msi

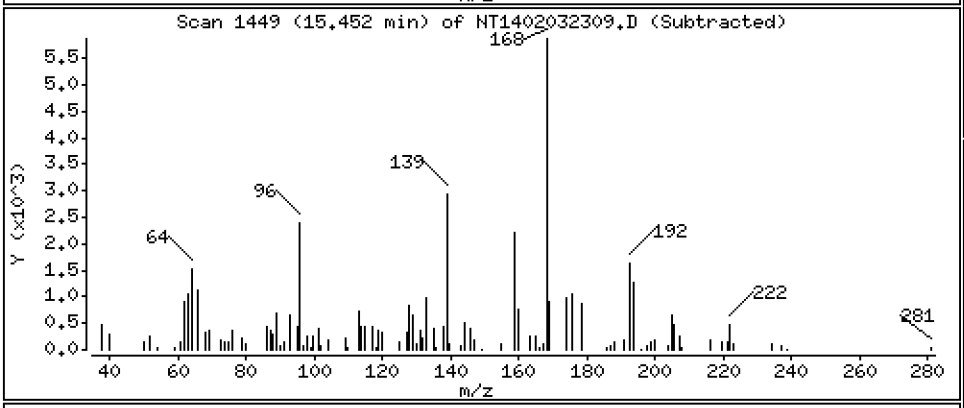
Column diameter: 0.25

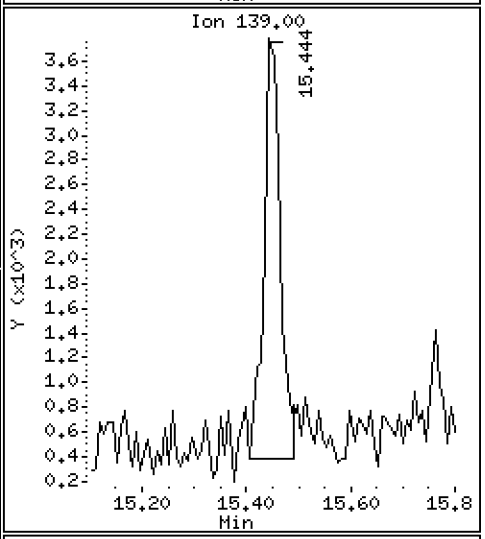
46 Dibenzofuran

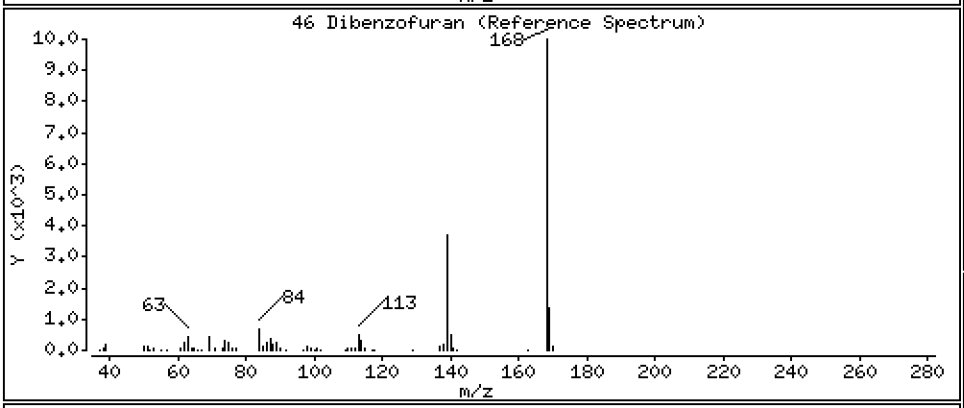
Concentration: 0.1481 ug/mL

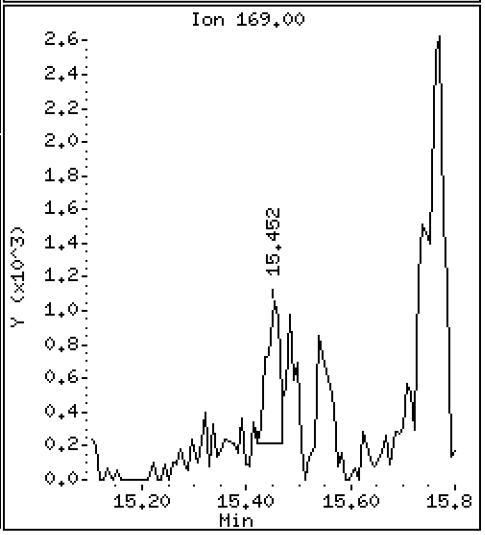


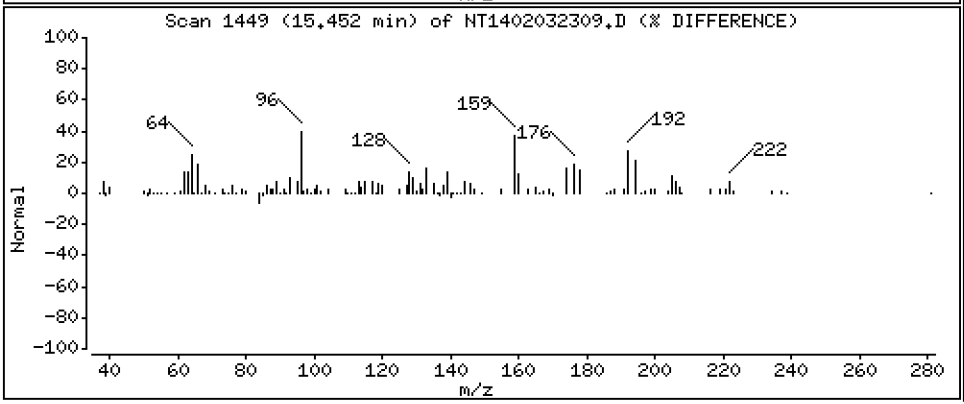












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

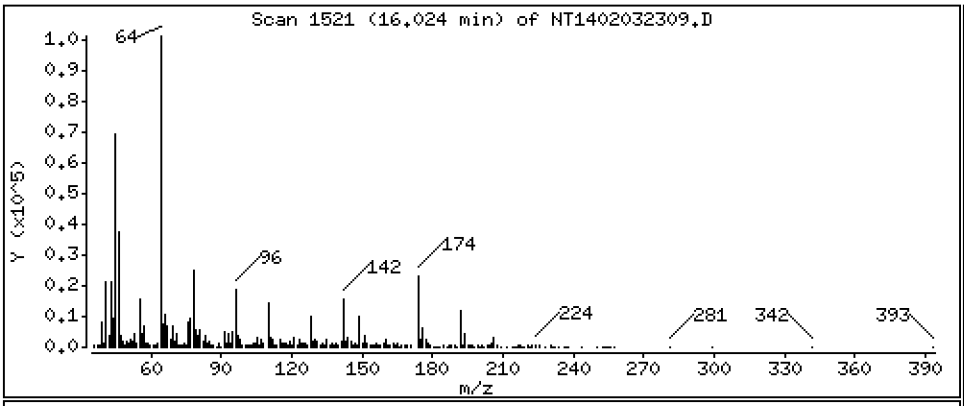
Operator: DSD

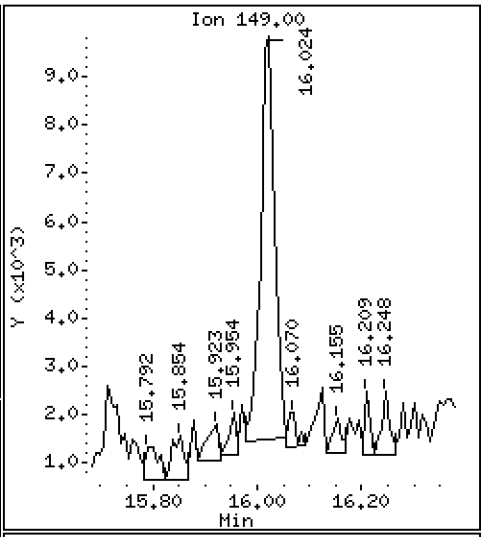
Column phase: ZB-5msi

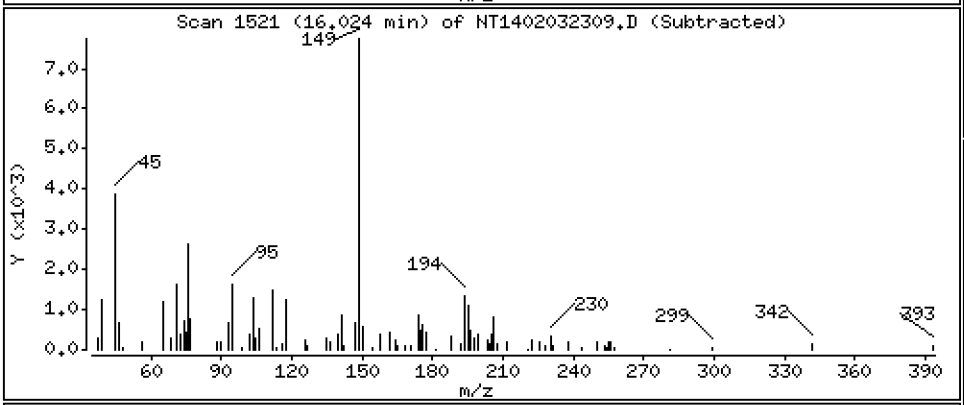
Column diameter: 0.25

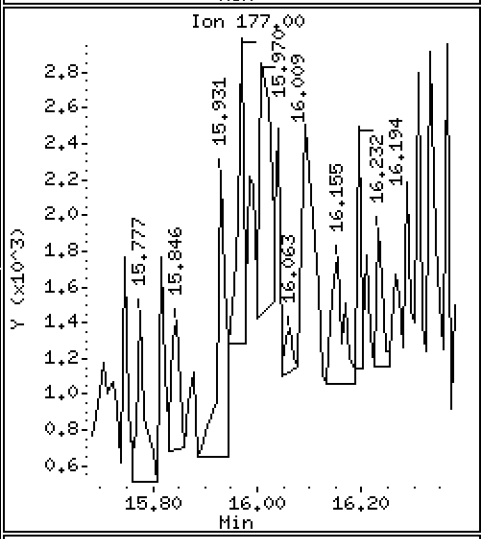
50 Diethylphthalate

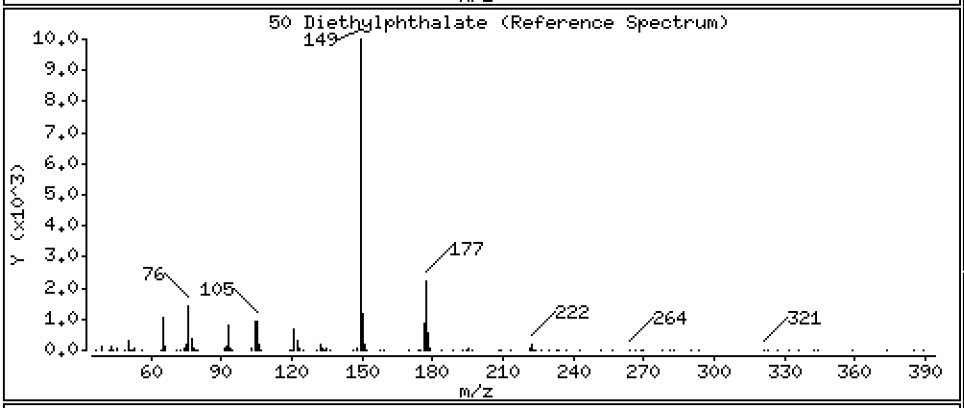
Concentration: 0.1616 ug/mL

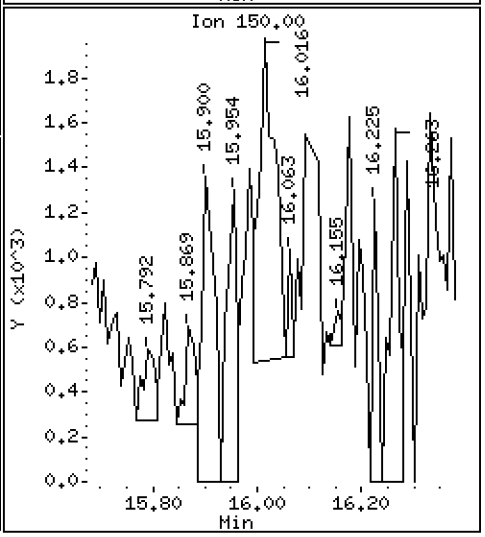


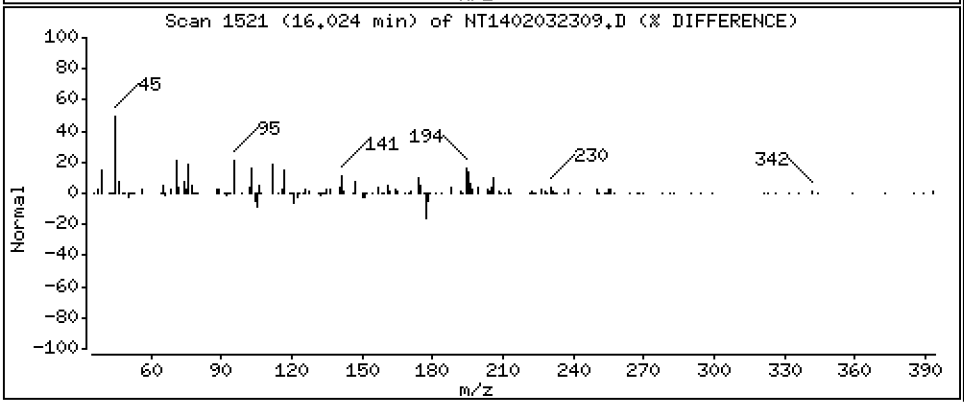












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032309.D

Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

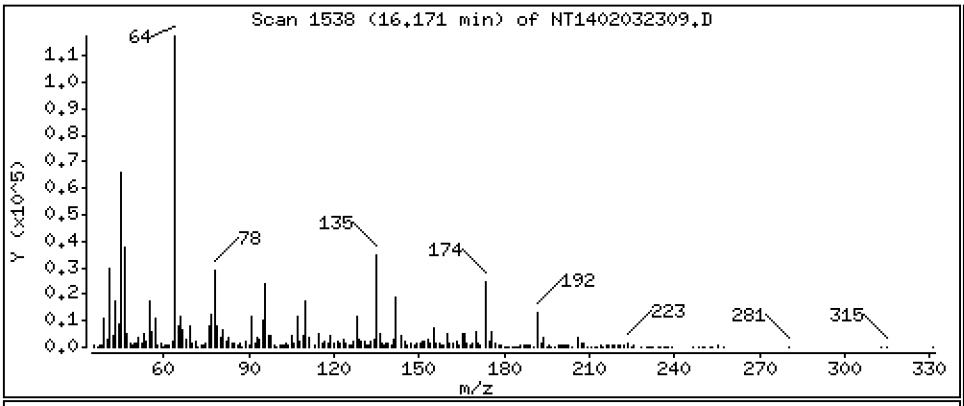
Operator: DSD

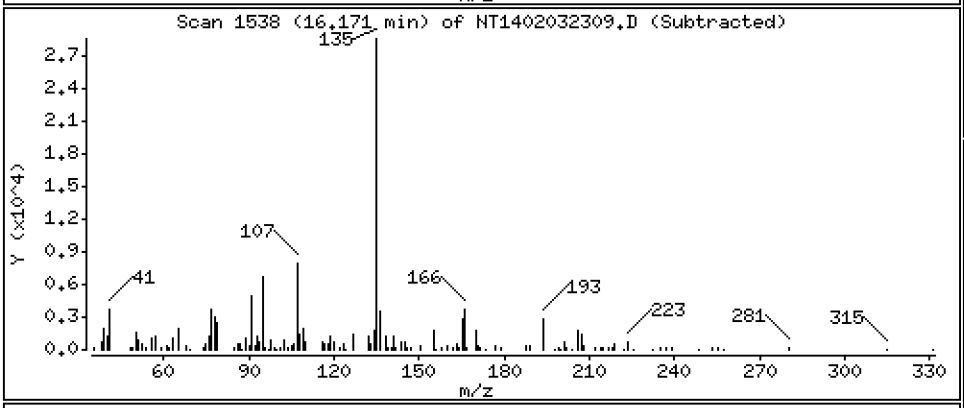
Column phase: ZB-5msi

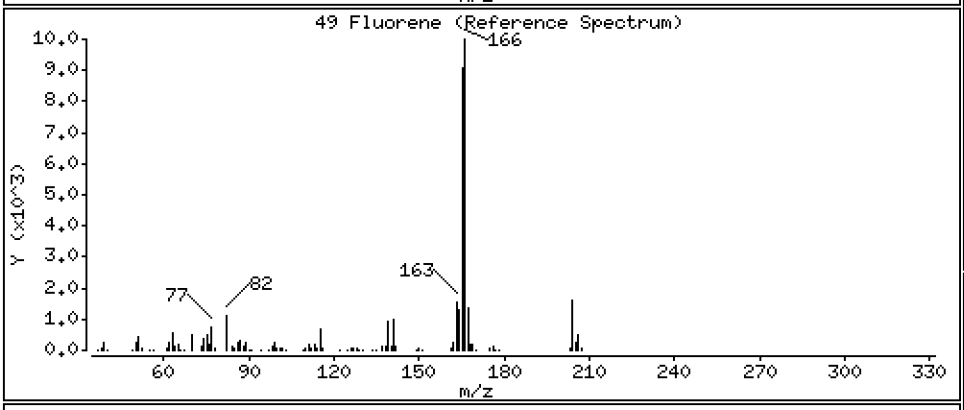
Column diameter: 0.25

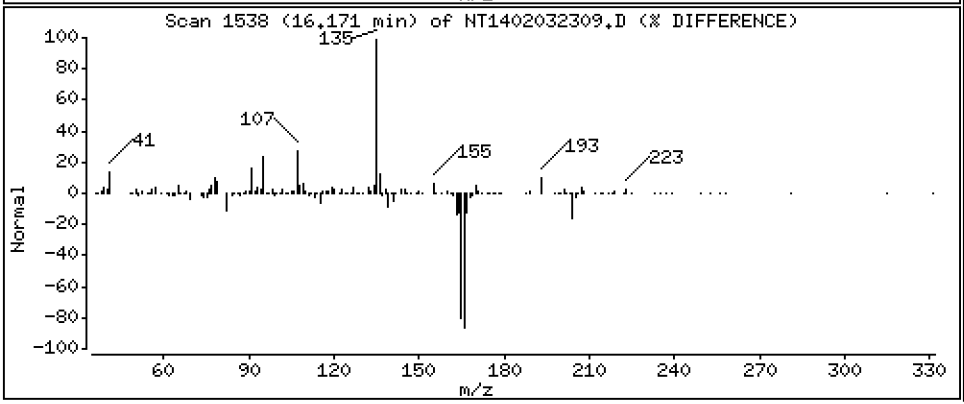
49 Fluorene

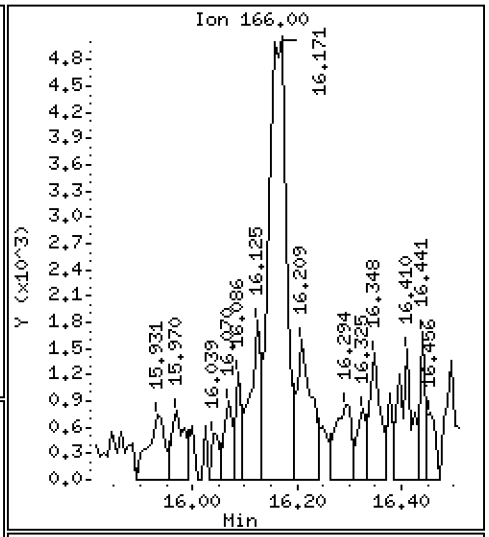
Concentration: 0.1293 ug/mL

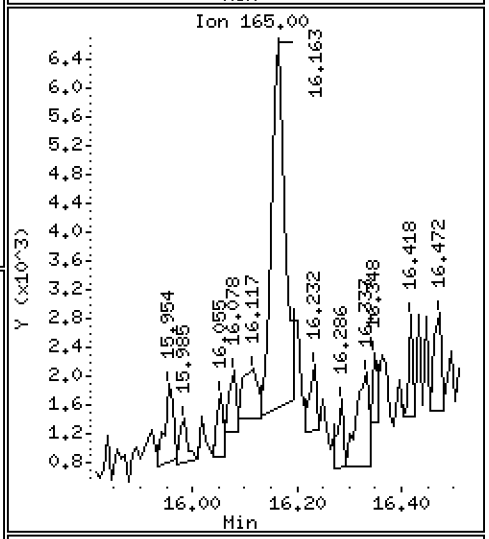


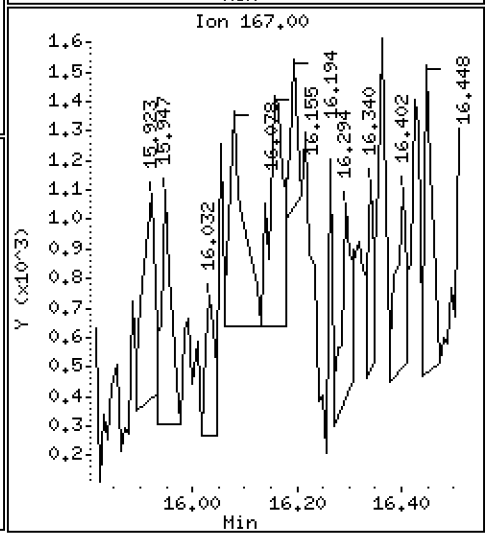












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

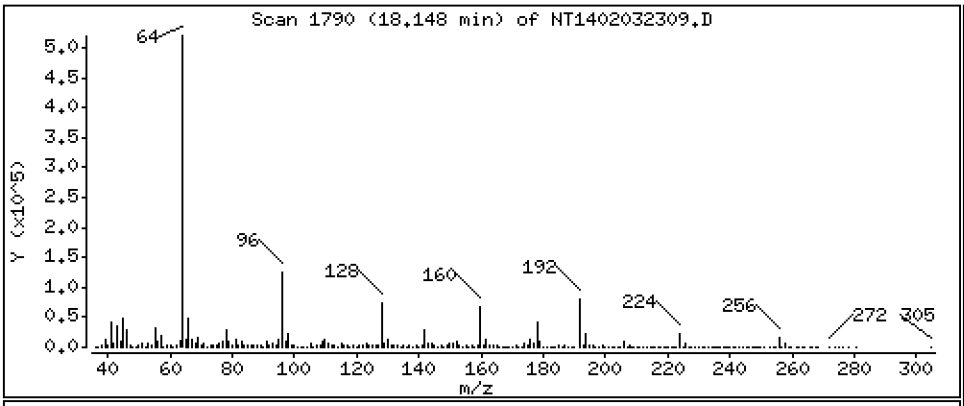
Operator: DSD

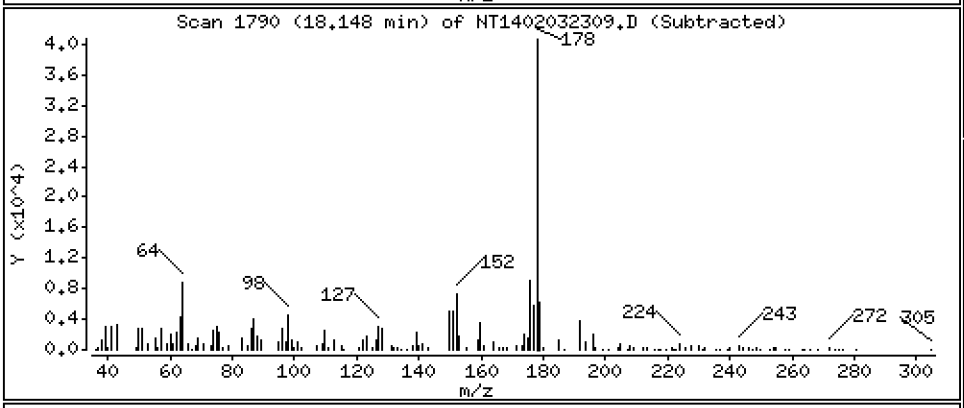
Column phase: ZB-5msi

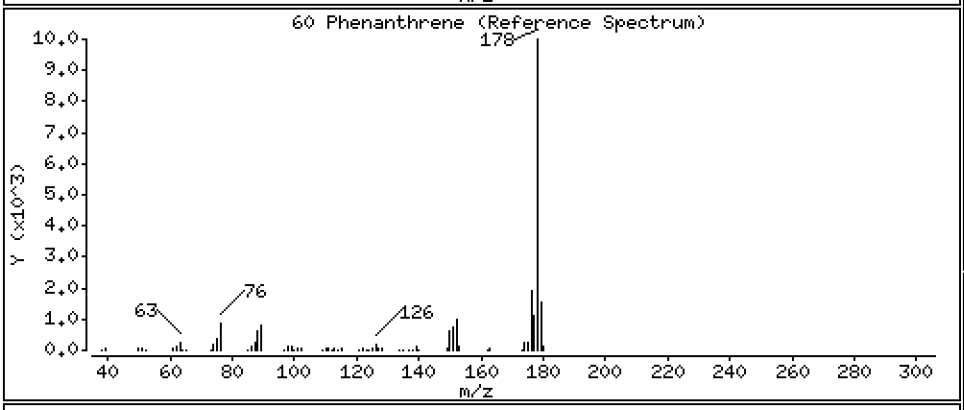
Column diameter: 0.25

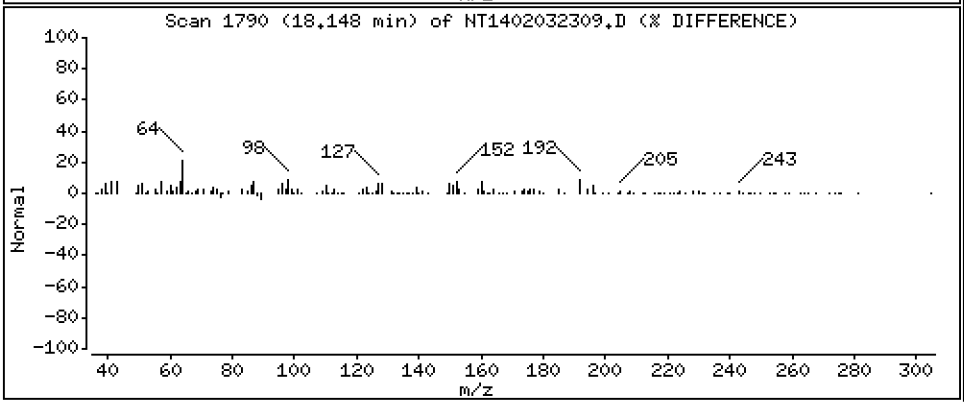
60 Phenanthrene

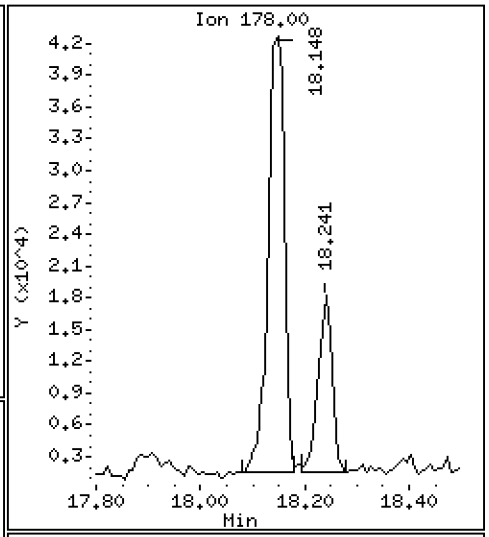
Concentration: 0.9346 ug/mL

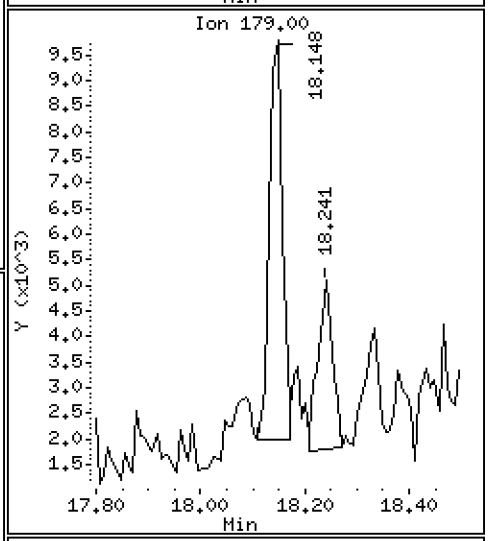


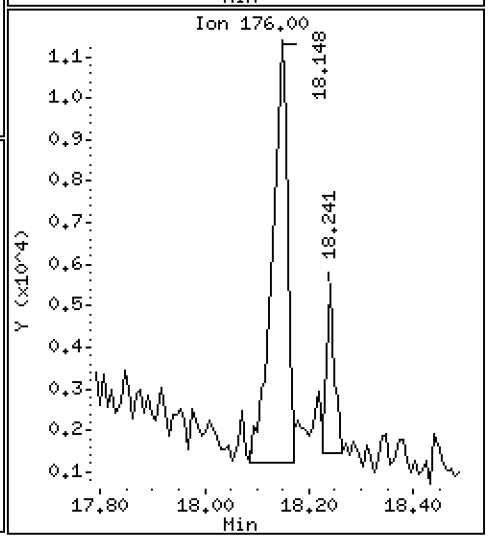












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

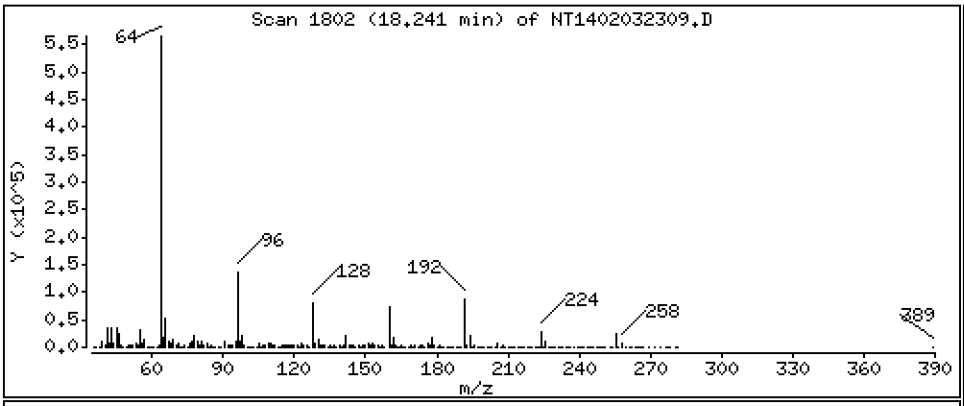
Operator: DSD

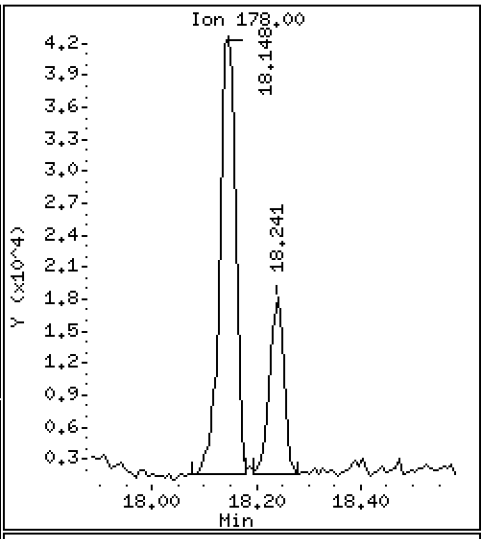
Column phase: ZB-5msi

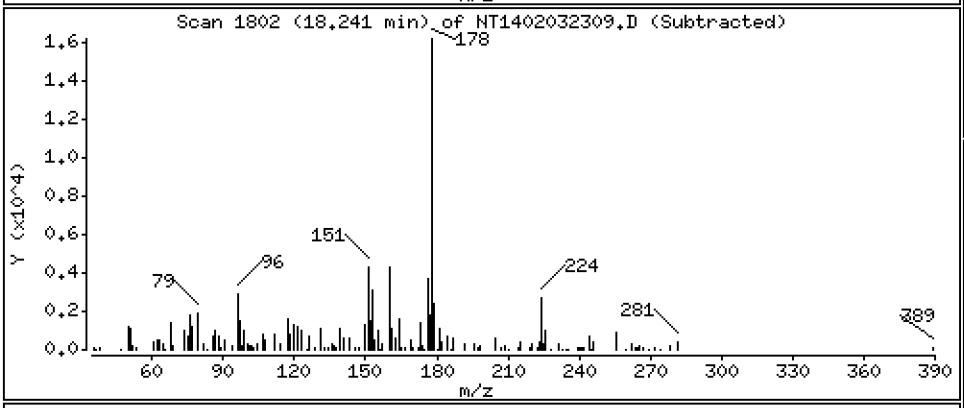
Column diameter: 0.25

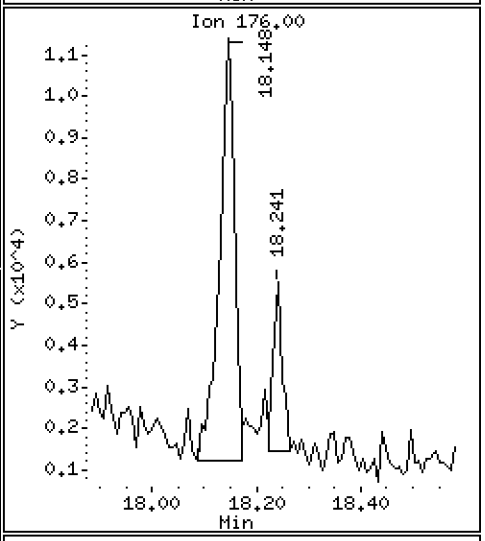
61 Anthracene

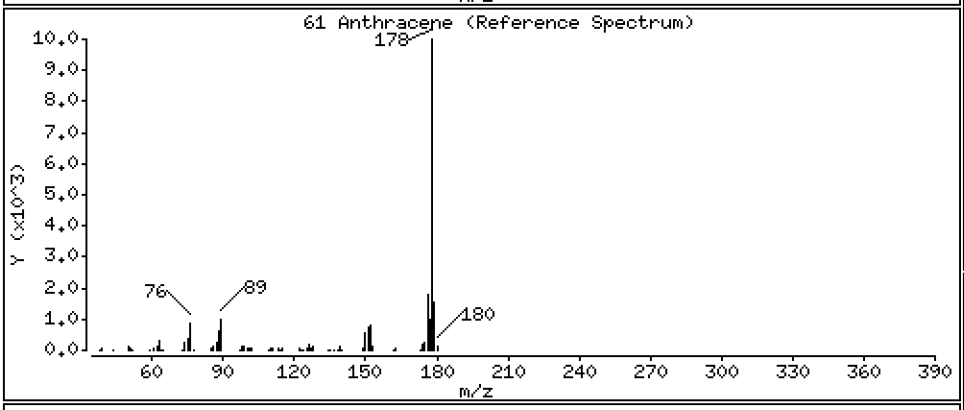
Concentration: 0.3468 ug/mL

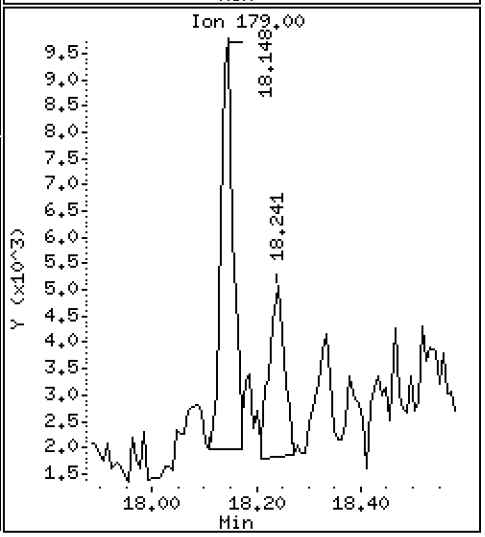


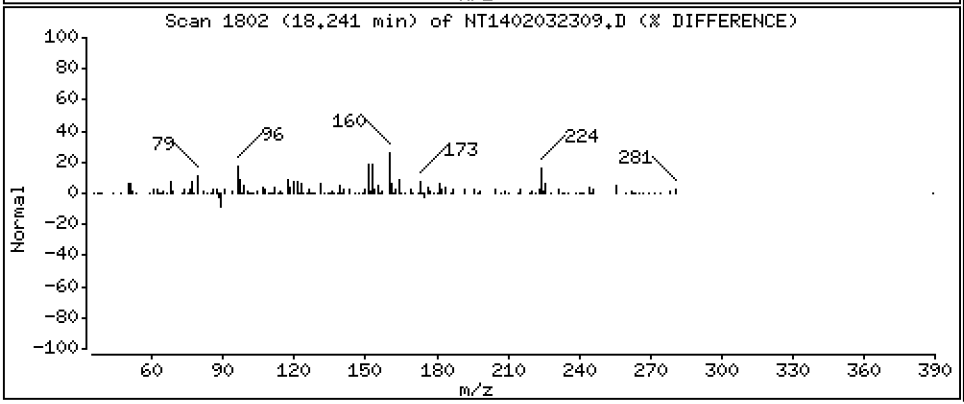












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

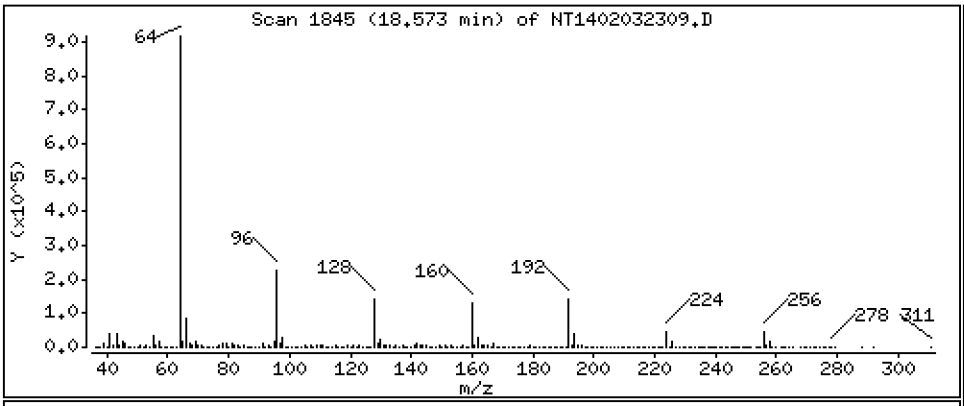
Operator: DSD

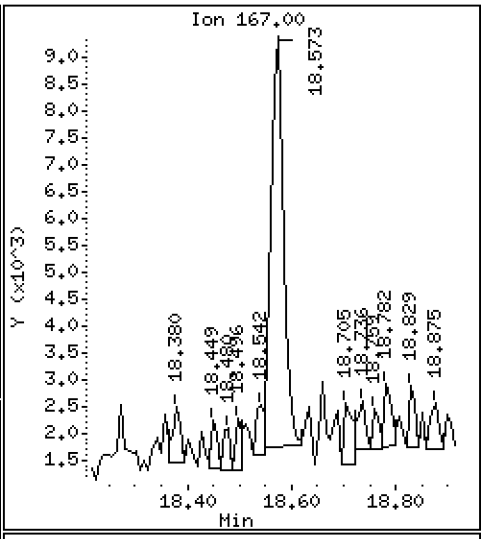
Column phase: ZB-5msi

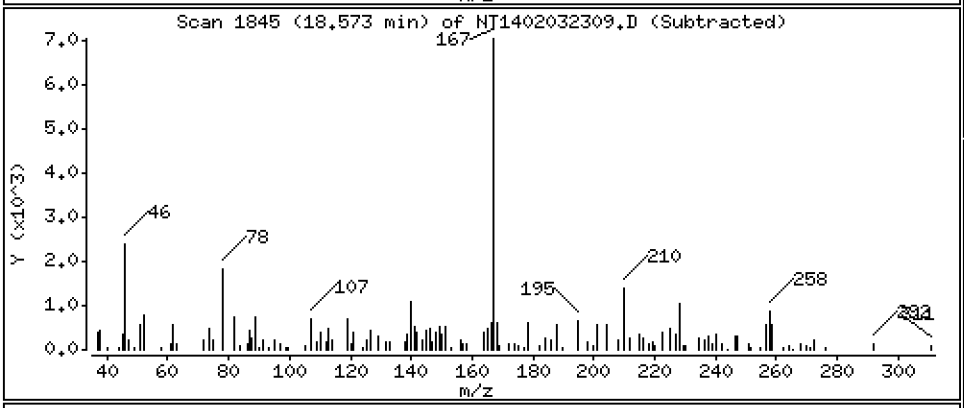
Column diameter: 0.25

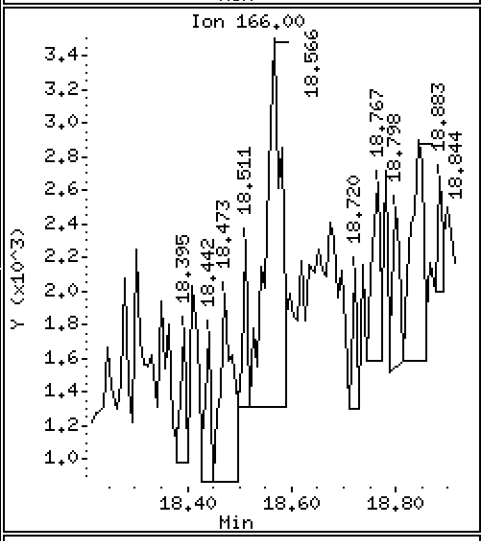
62 Carbazole

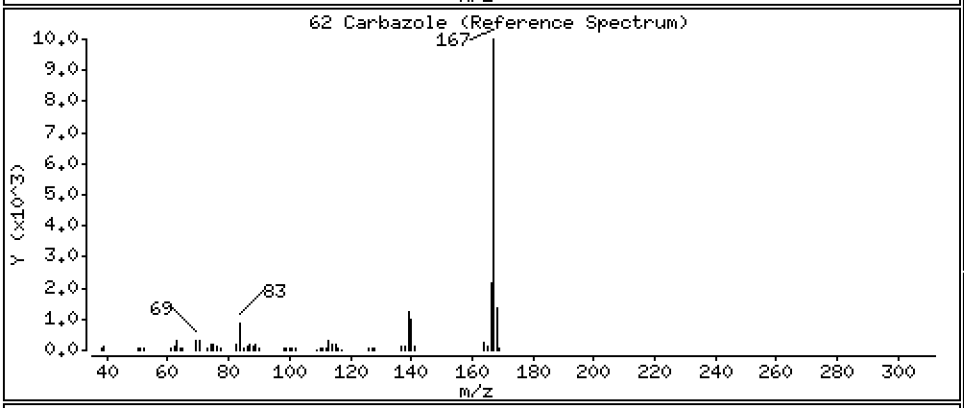
Concentration: 0.1555 ug/mL

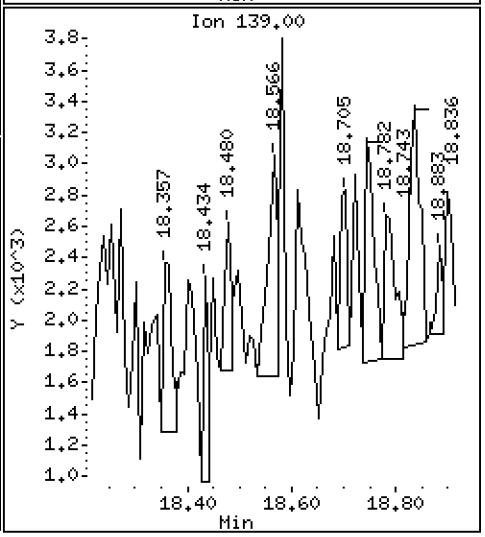


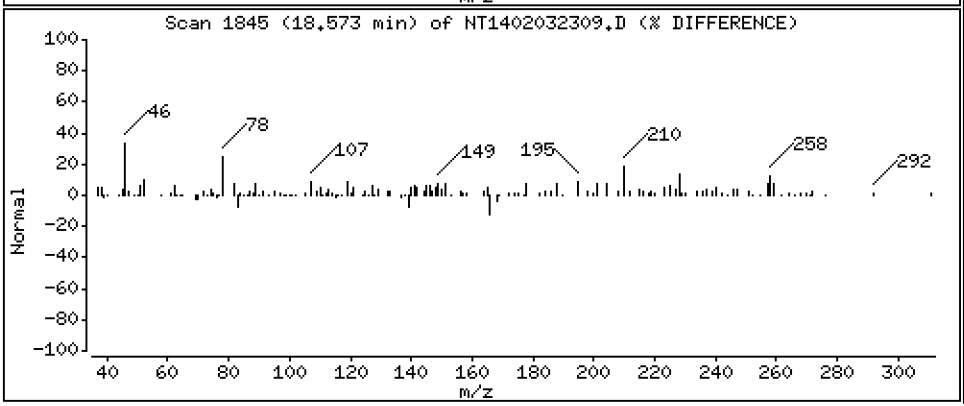












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

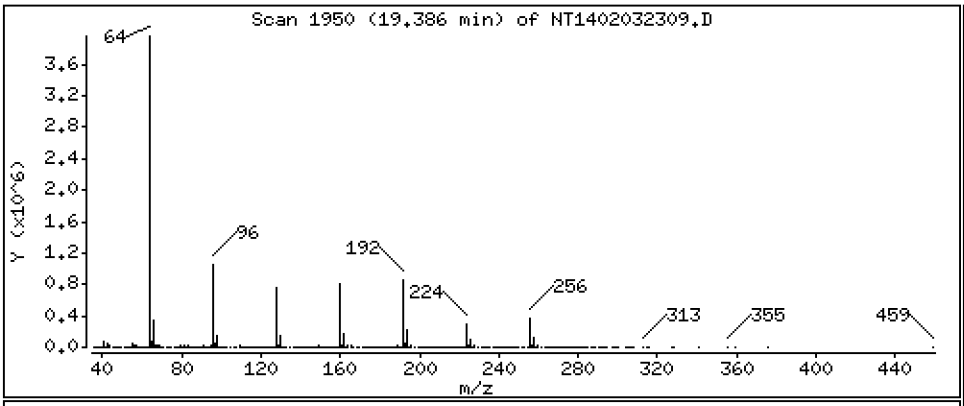
Operator: DSD

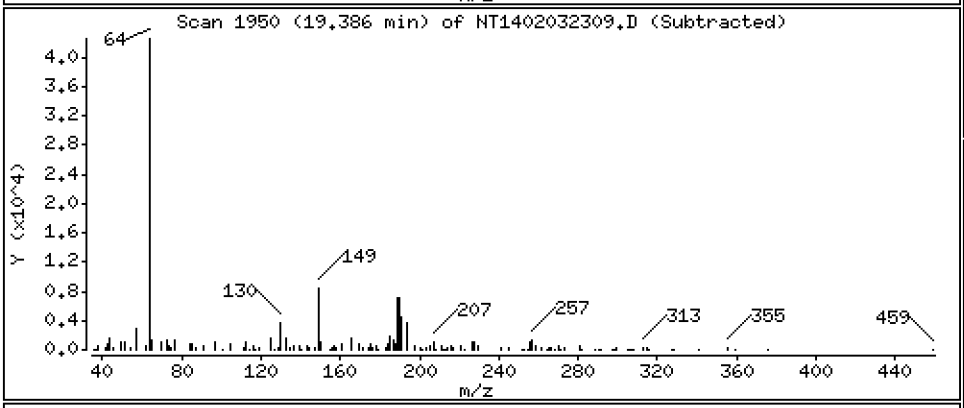
Column phase: ZB-5msi

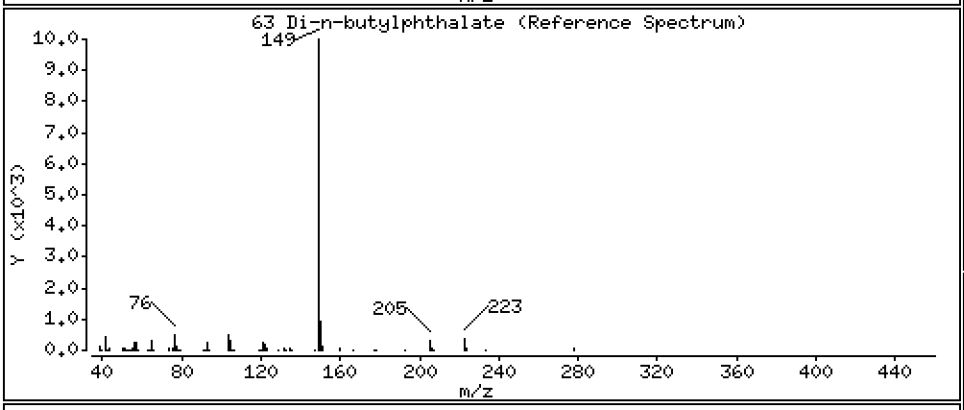
Column diameter: 0.25

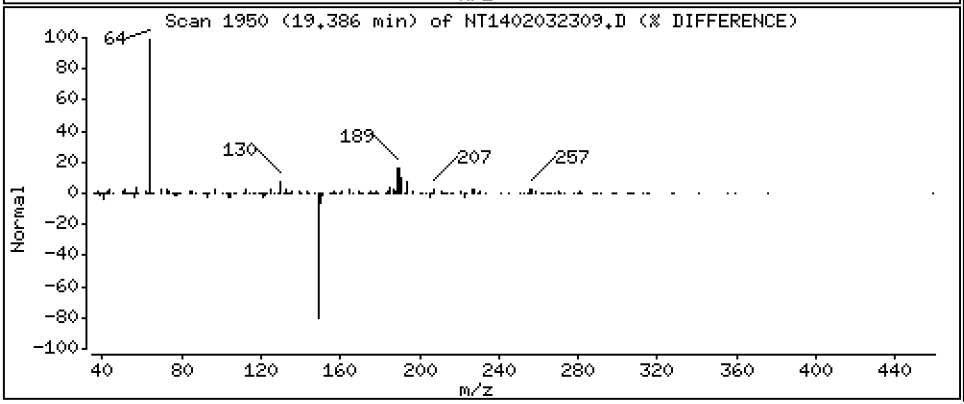
63 Di-n-butylphthalate

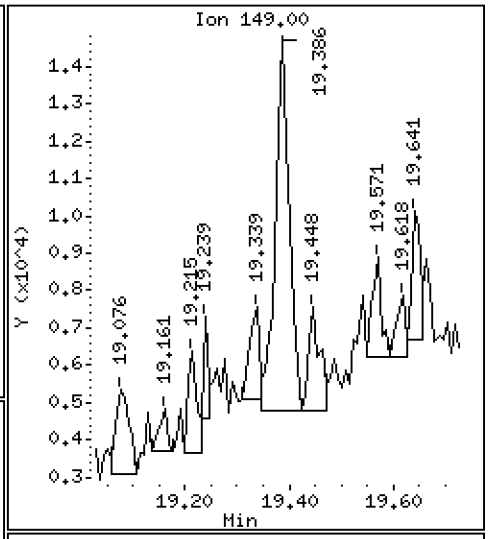
Concentration: 0.1465 ug/mL

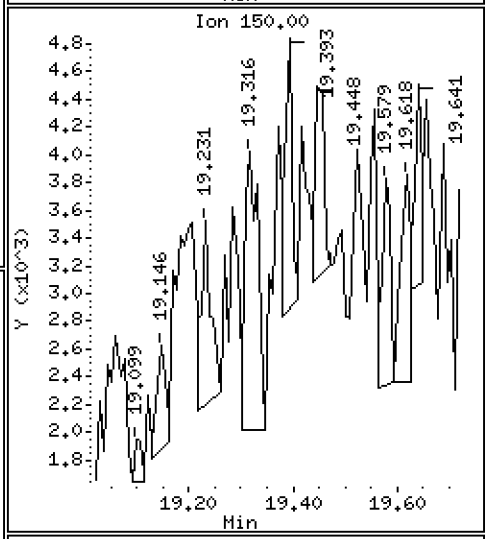


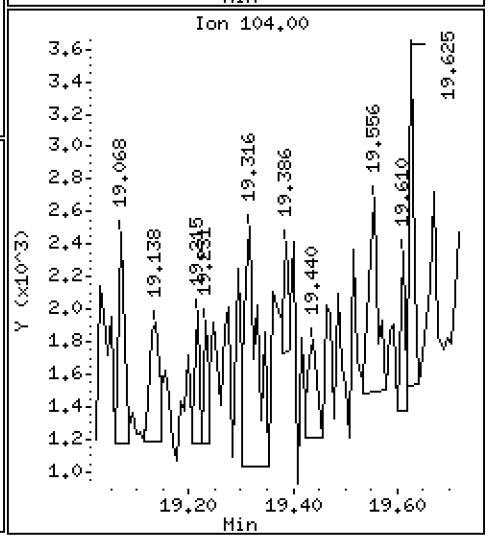












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

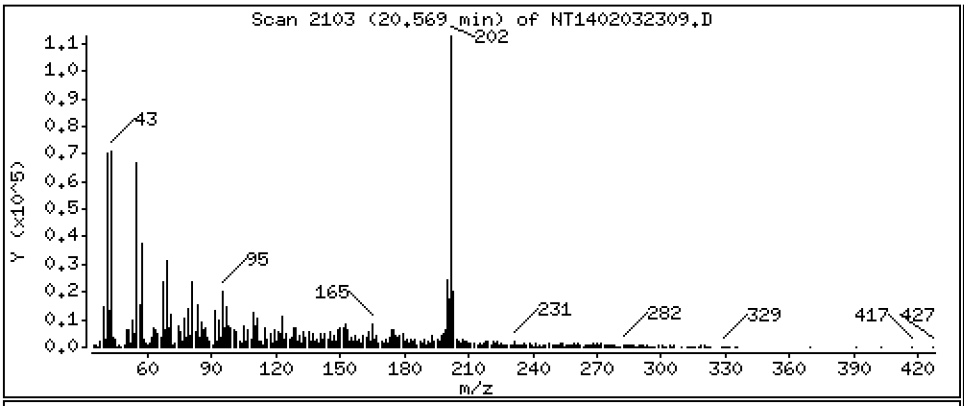
Operator: DSD

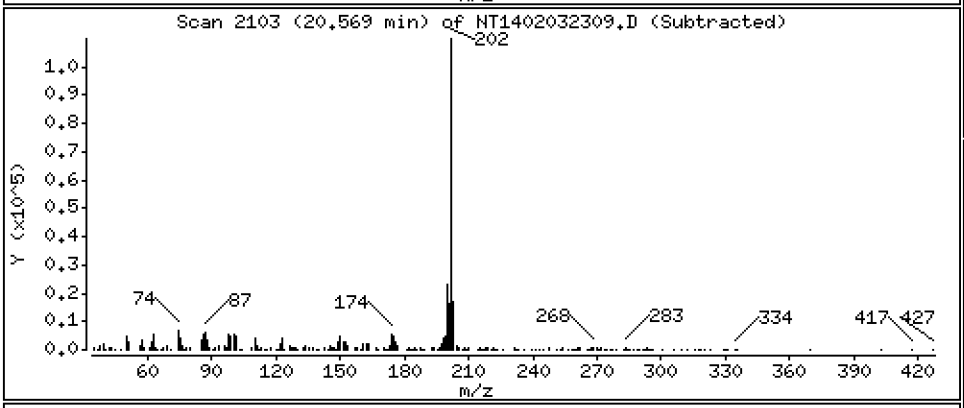
Column phase: ZB-5msi

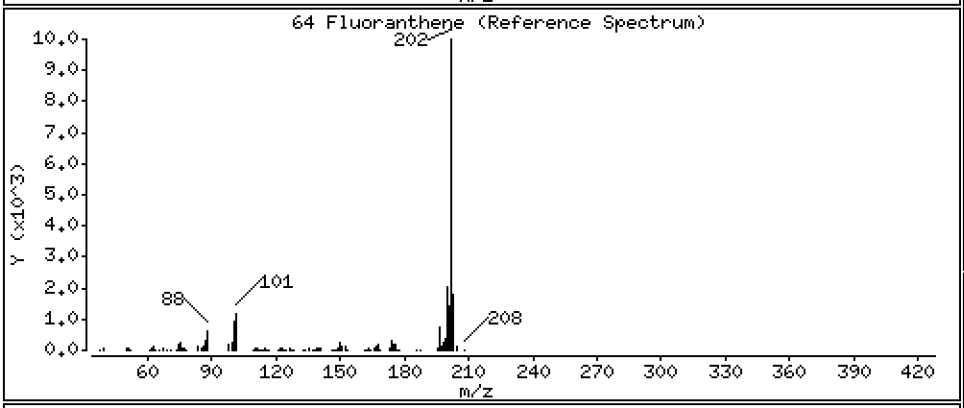
Column diameter: 0.25

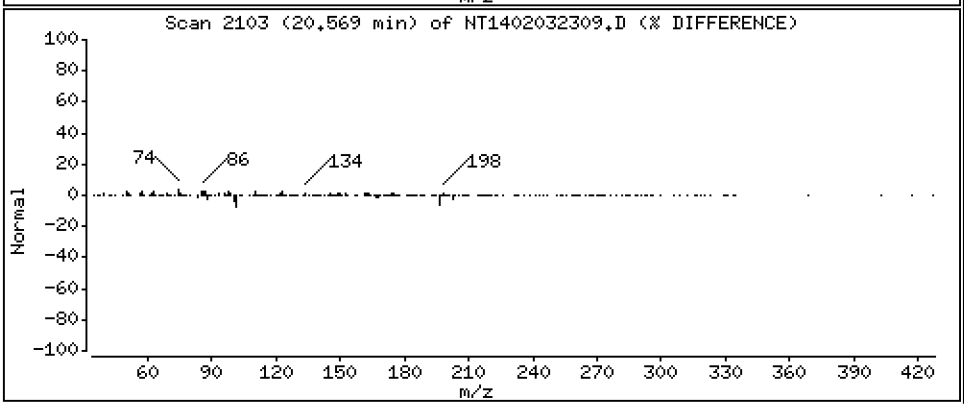
64 Fluoranthene

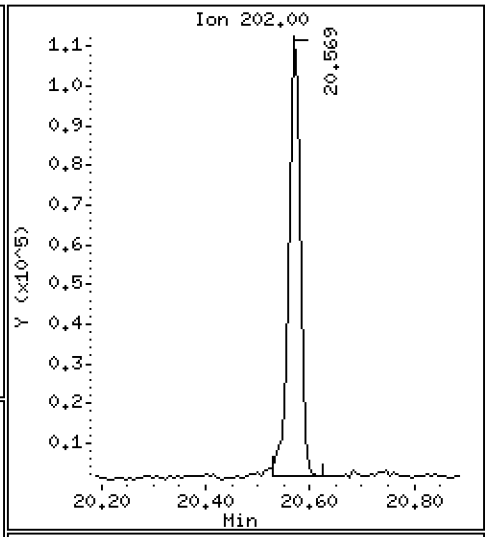
Concentration: 3.200 ug/mL

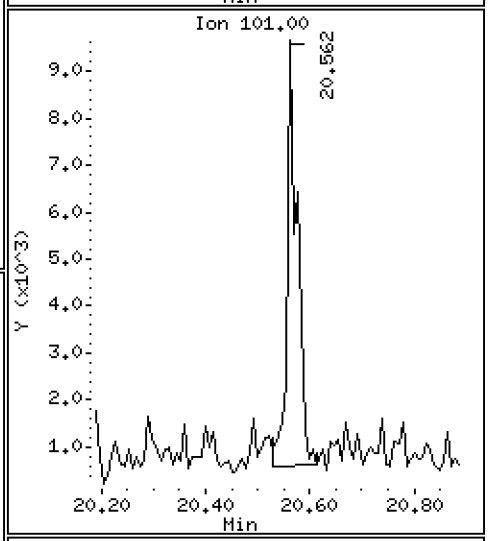


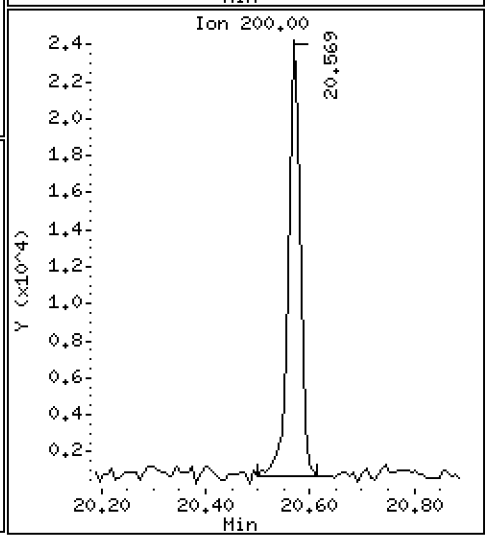












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

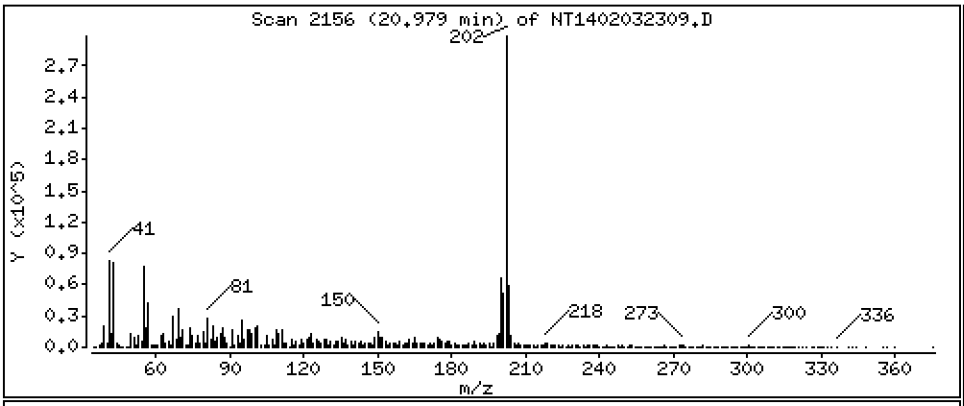
Operator: DSD

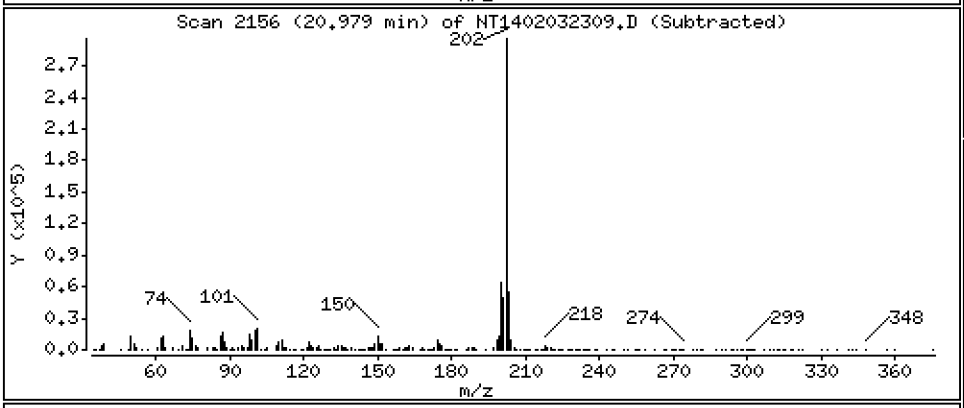
Column phase: ZB-5msi

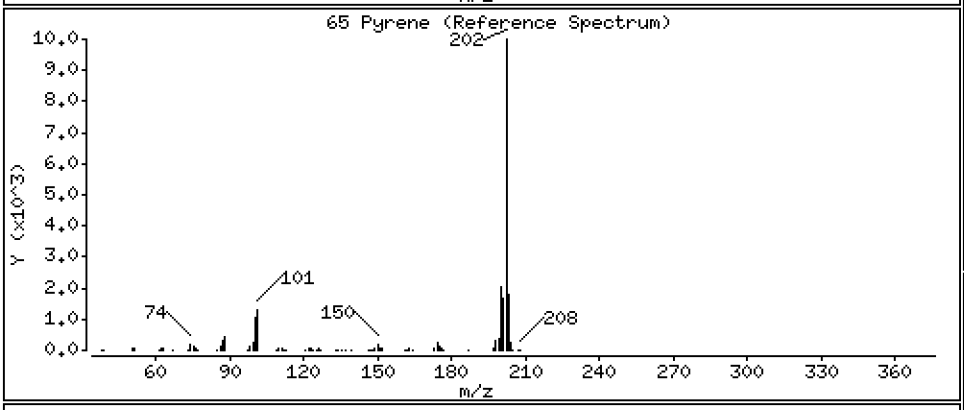
Column diameter: 0.25

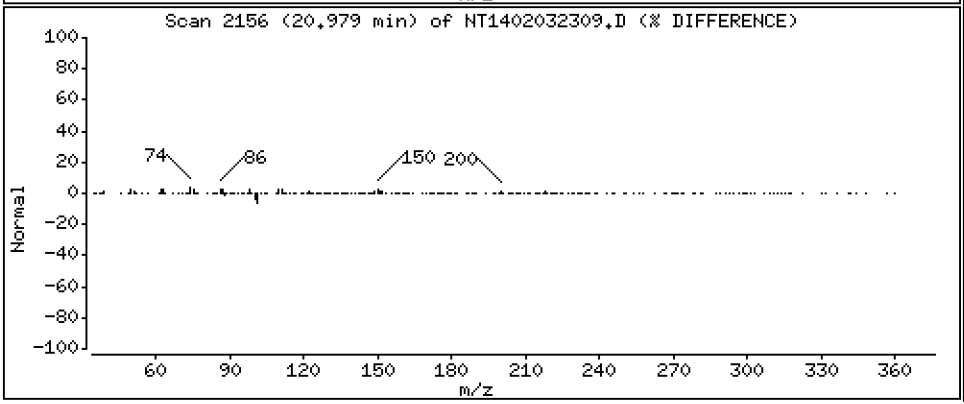
65 Pyrene

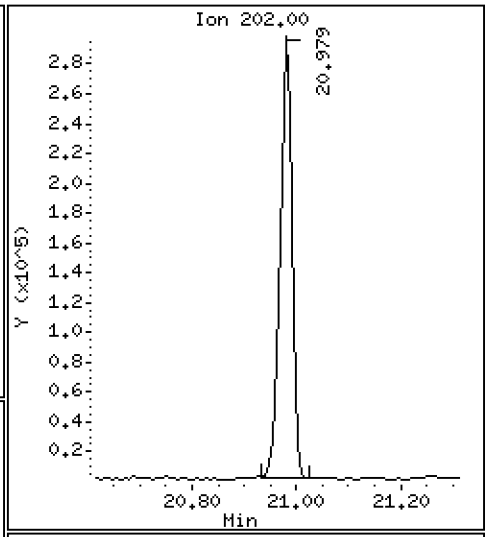
Concentration: 7.858 ug/mL

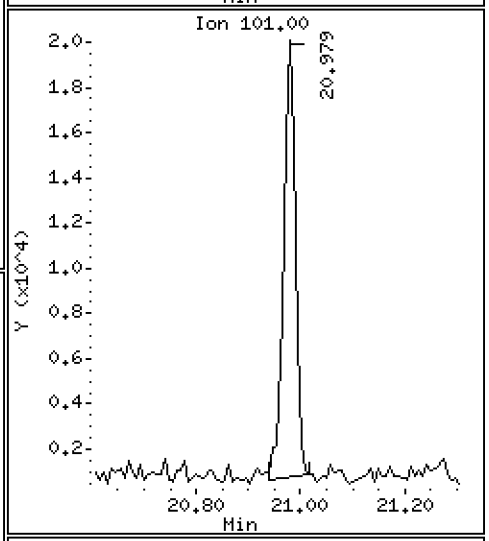


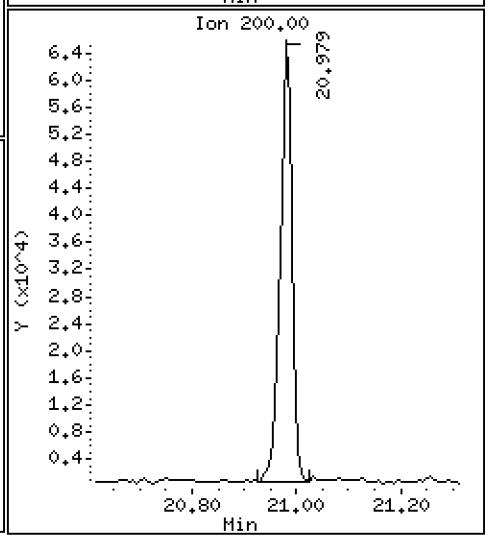












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032309.D

Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

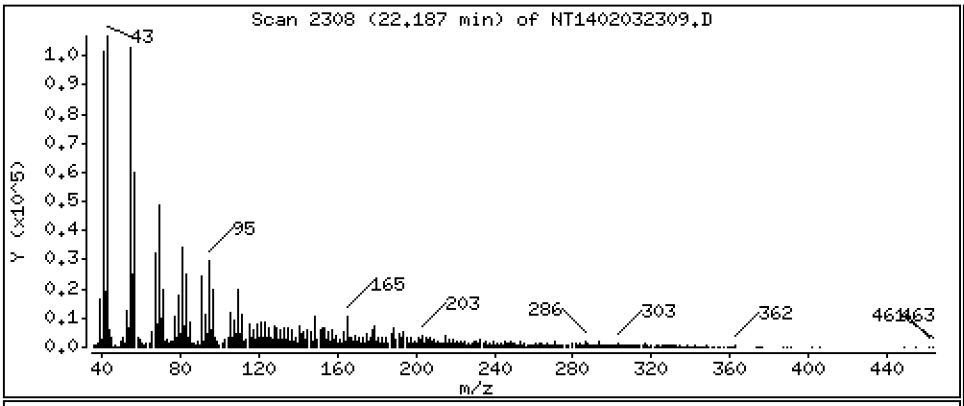
Operator: DSD

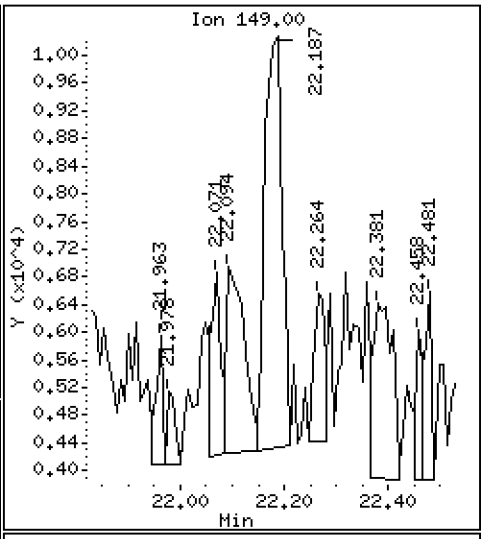
Column phase: ZB-5msi

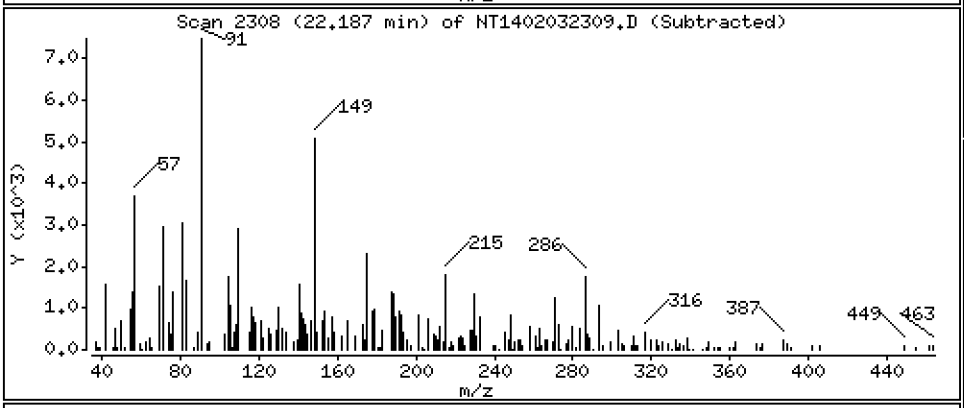
Column diameter: 0.25

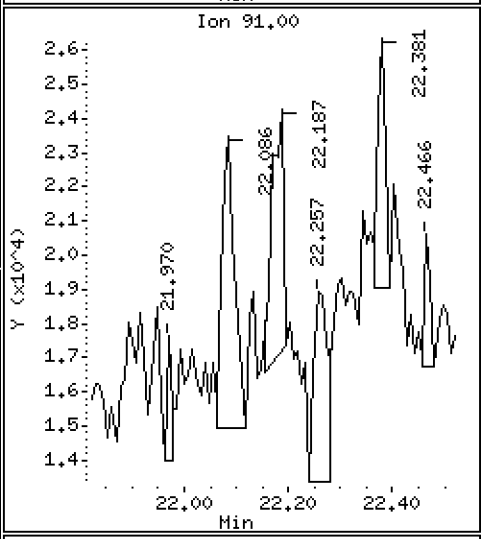
67 Butylbenzylphthalate

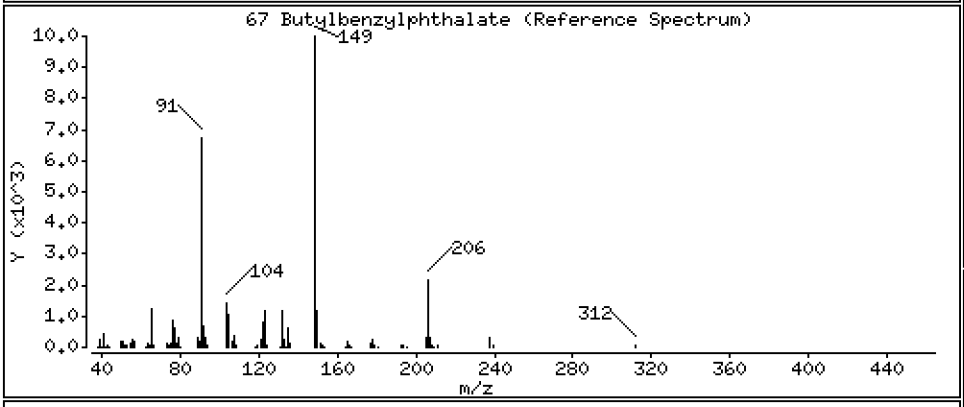
Concentration: 0.4523 ug/mL

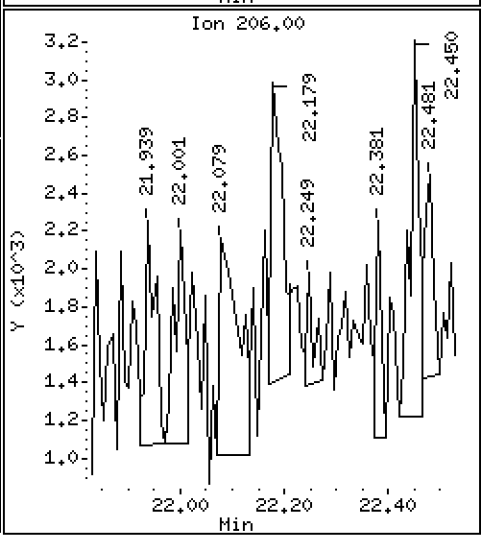


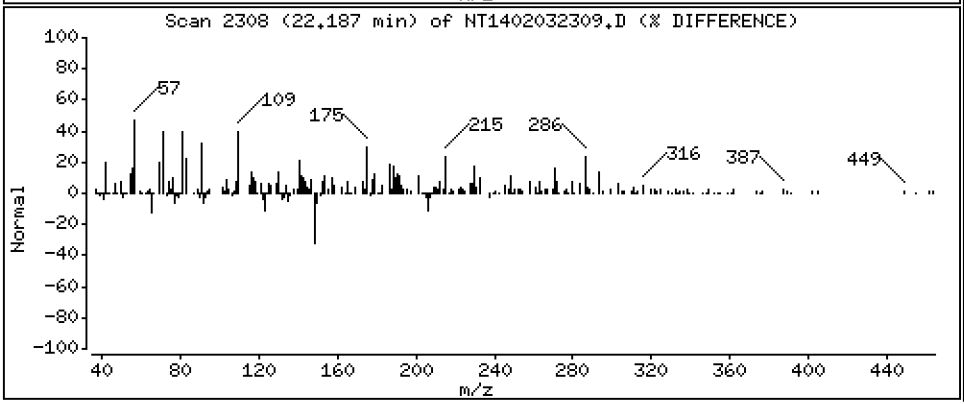












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

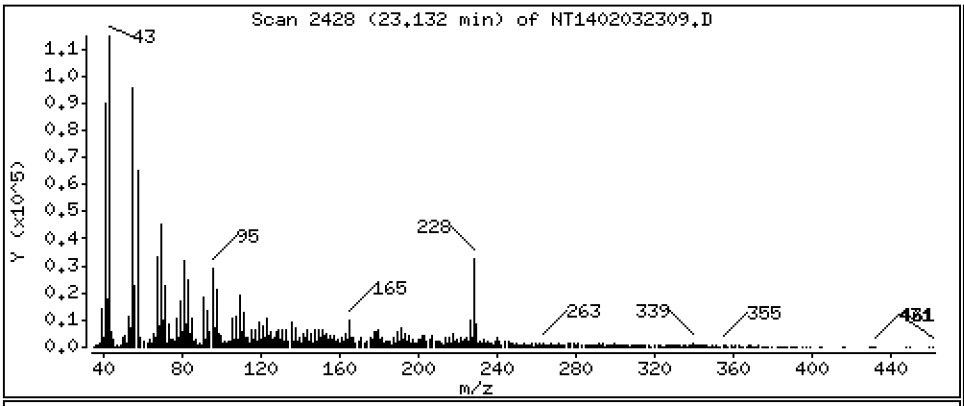
Operator: DSD

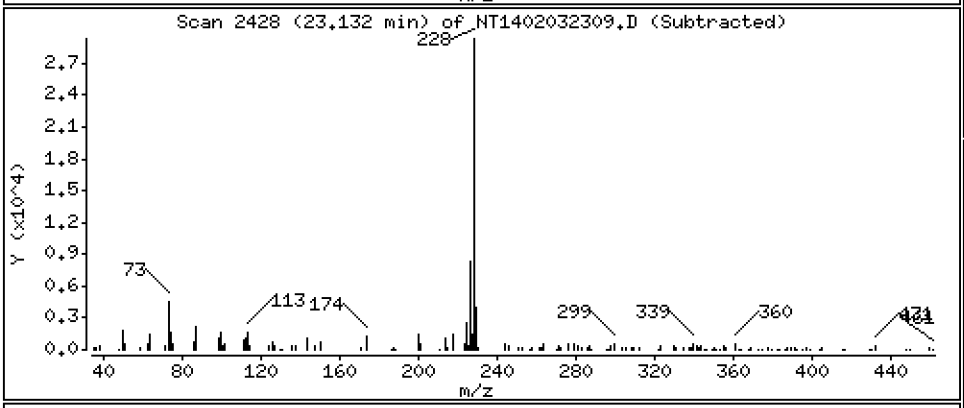
Column phase: ZB-5msi

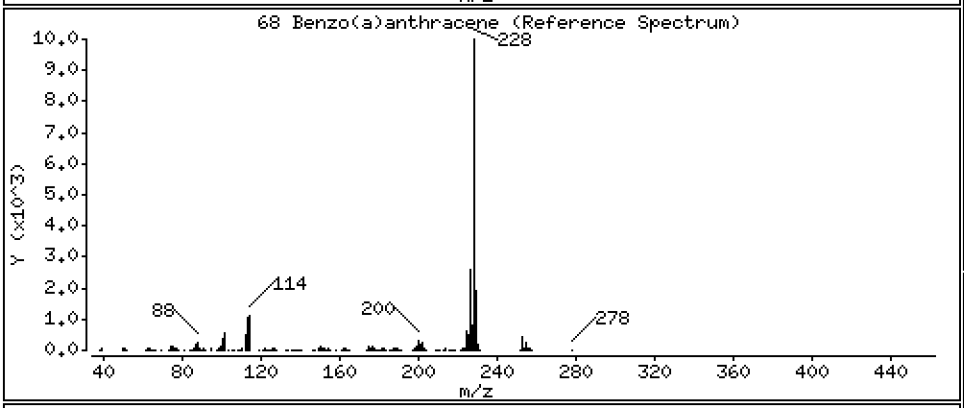
Column diameter: 0.25

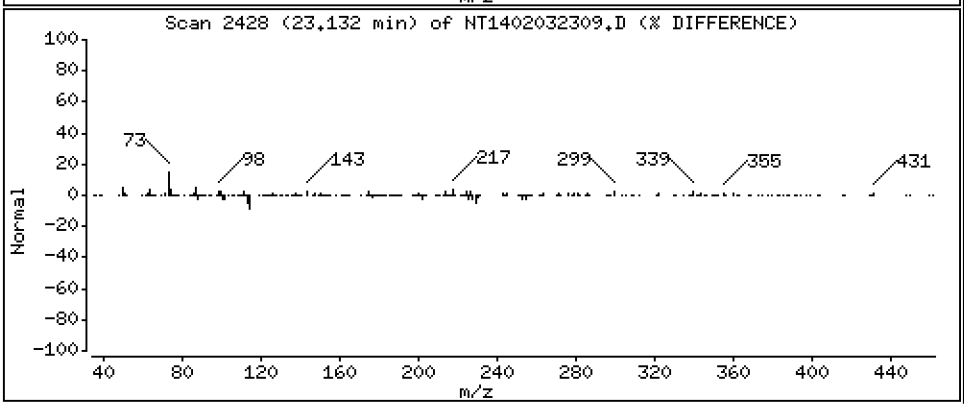
68 Benzo(a)anthracene

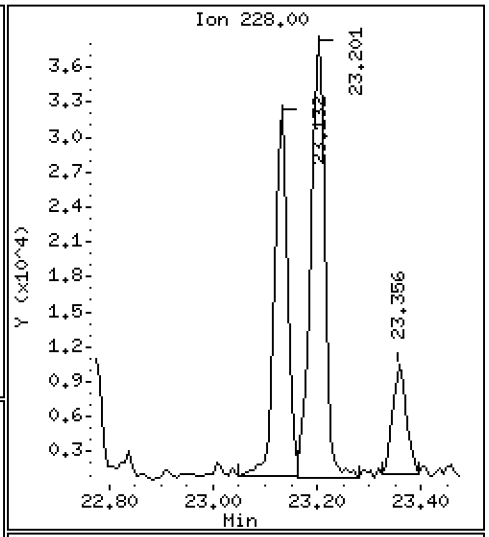
Concentration: 1.034 ug/mL

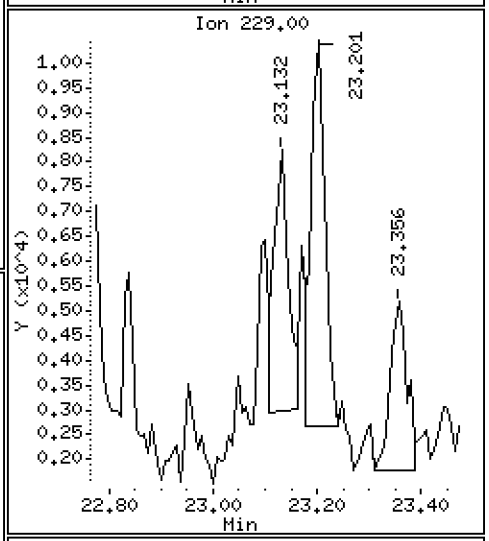


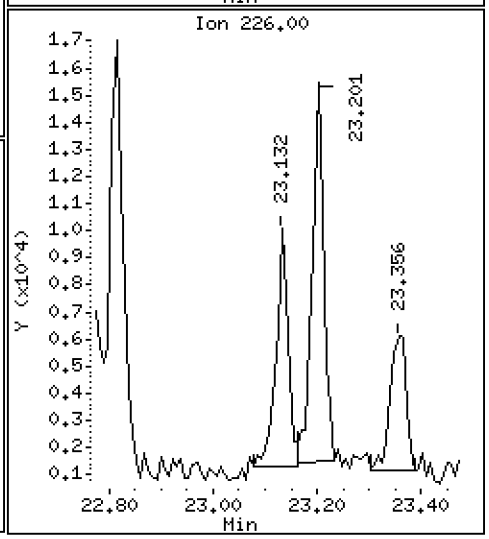












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

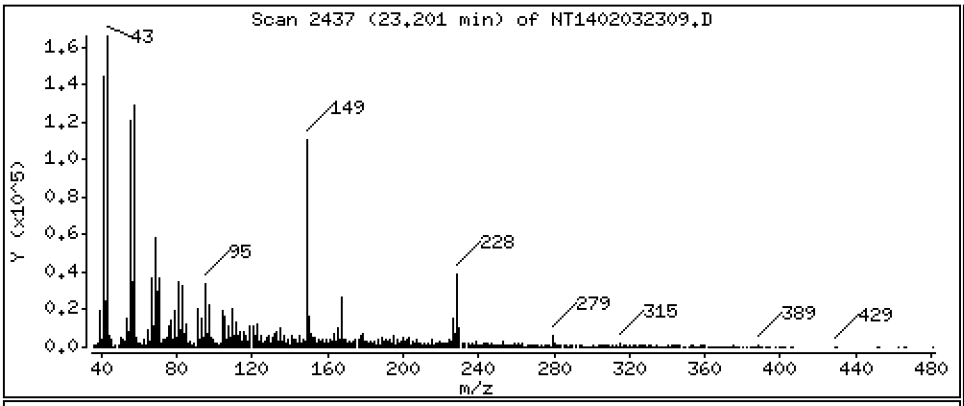
Operator: DSD

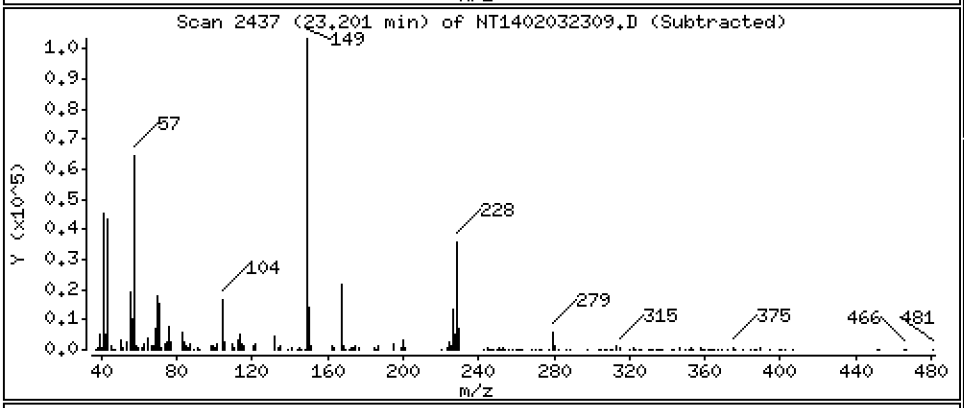
Column phase: ZB-5msi

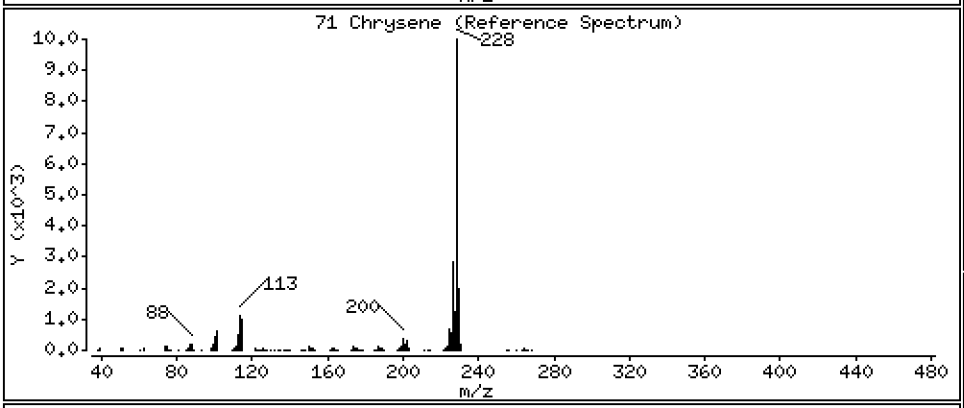
Column diameter: 0.25

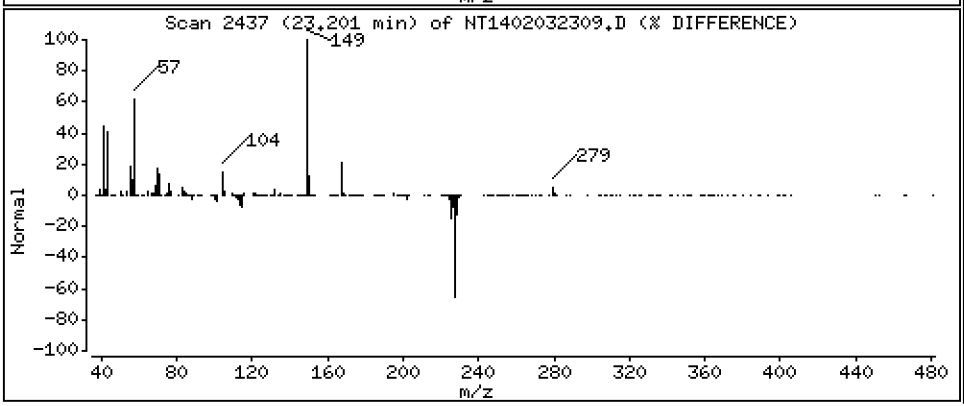
71 Chrysene

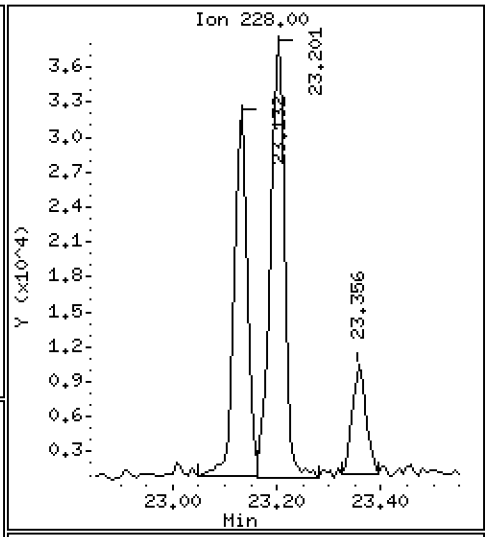
Concentration: 1.389 ug/mL

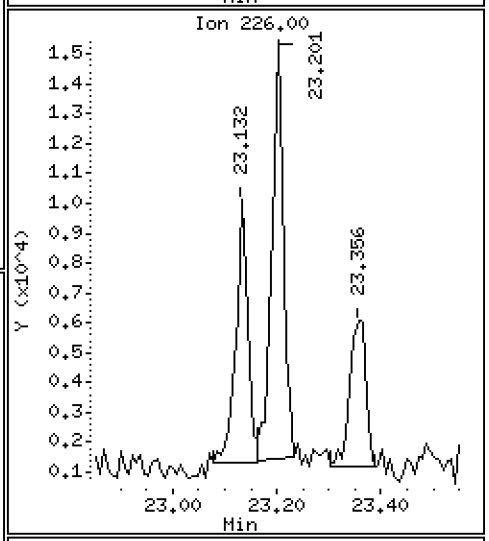


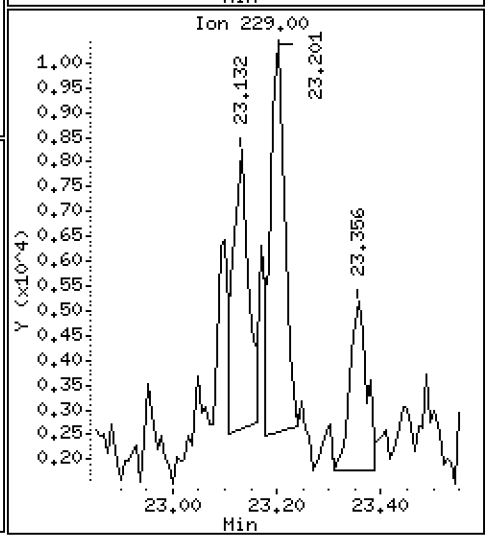












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

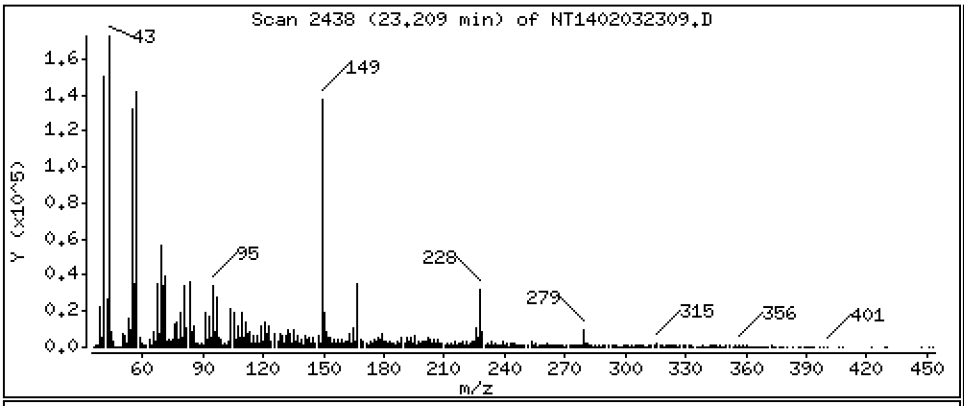
Operator: DSD

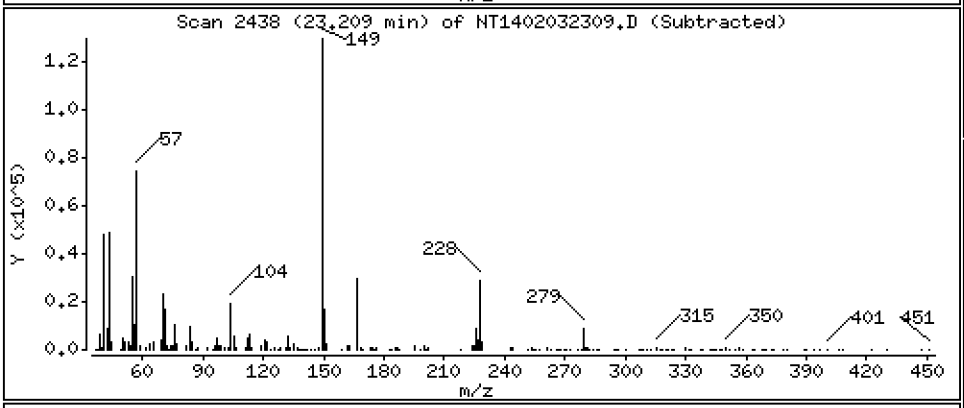
Column phase: ZB-5msi

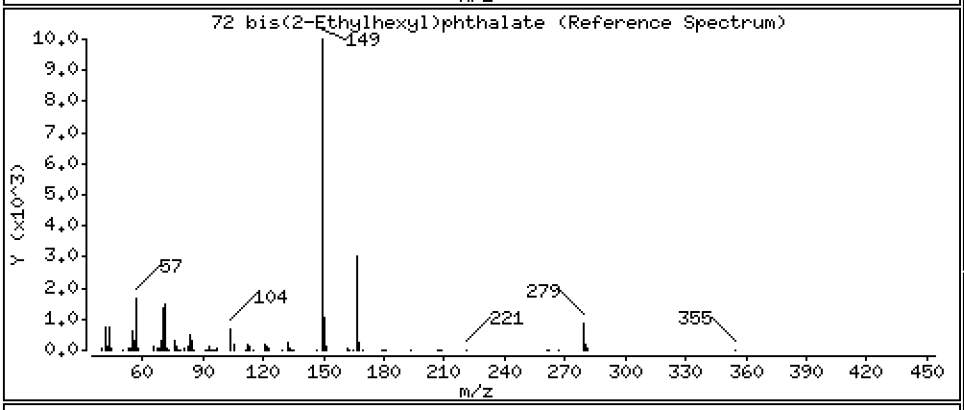
Column diameter: 0.25

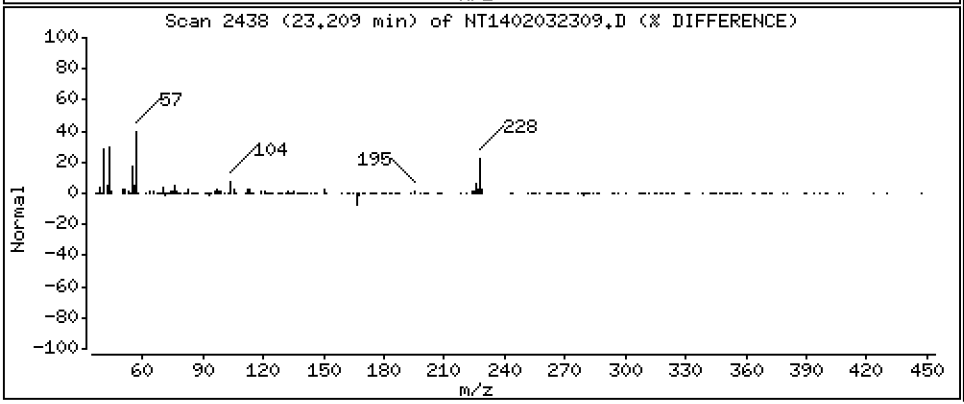
72 bis(2-Ethylhexyl)phthalate

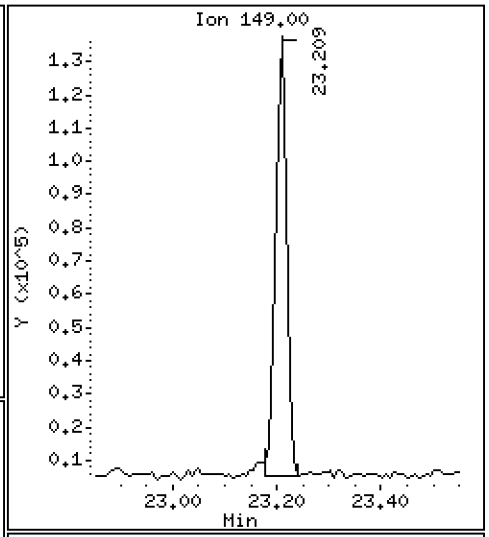
Concentration: 5.110 ug/mL

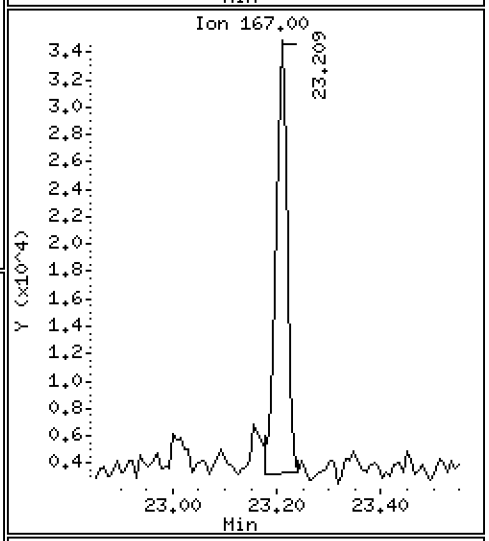


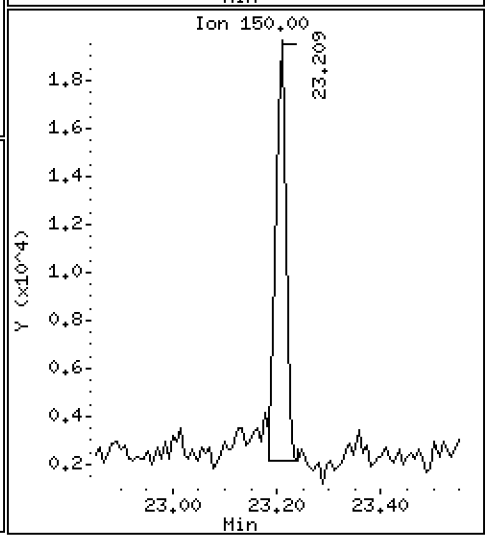












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

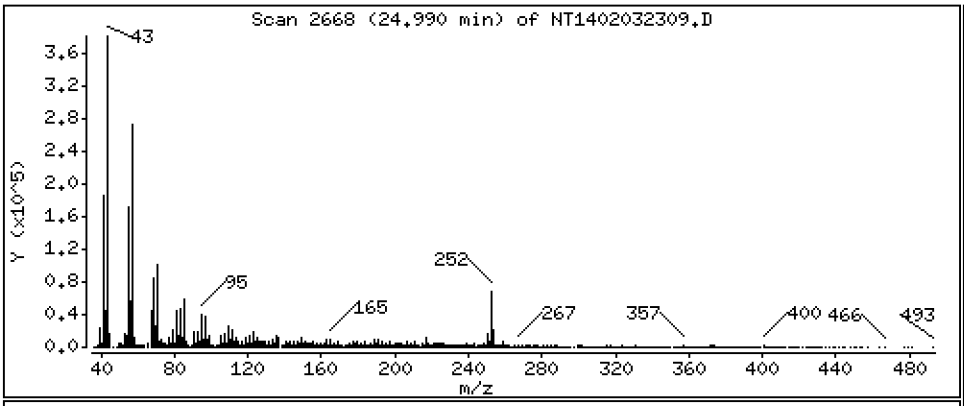
Operator: DSD

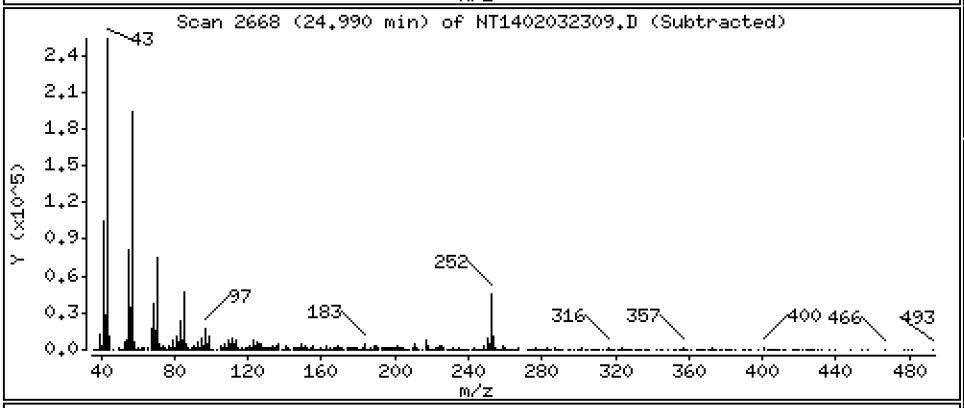
Column phase: ZB-5msi

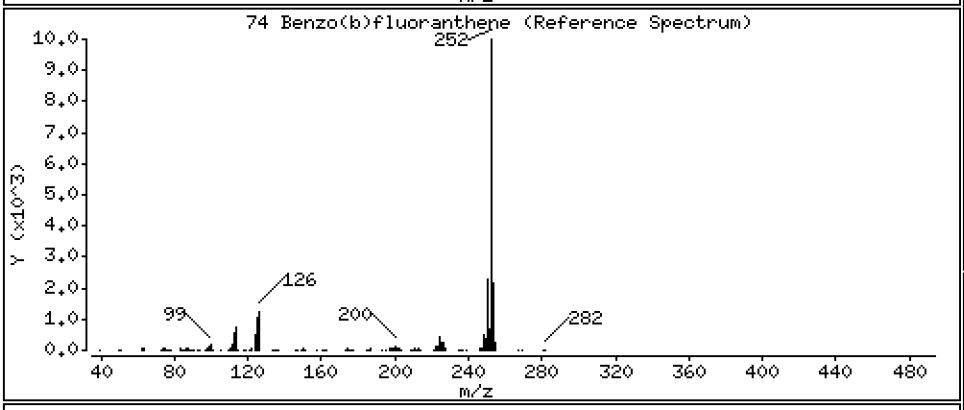
Column diameter: 0.25

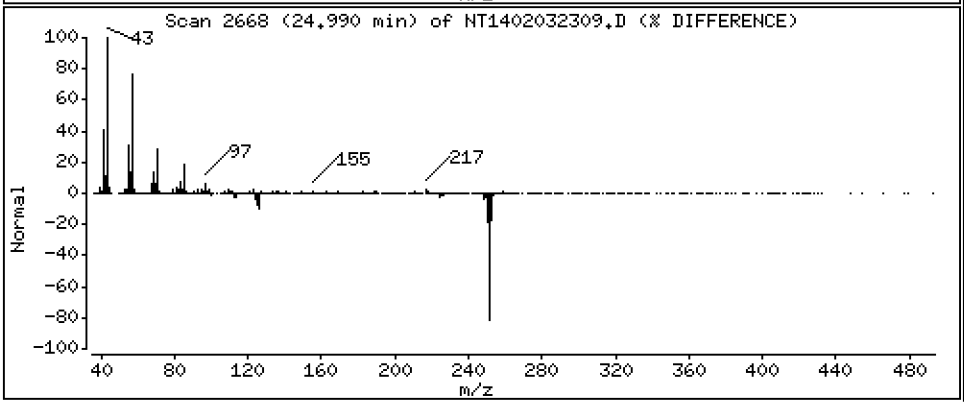
74 Benzo(b)fluoranthene

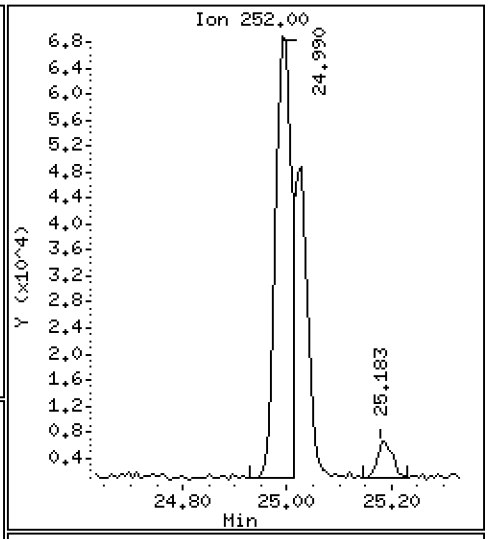
Concentration: 3.063 ug/mL

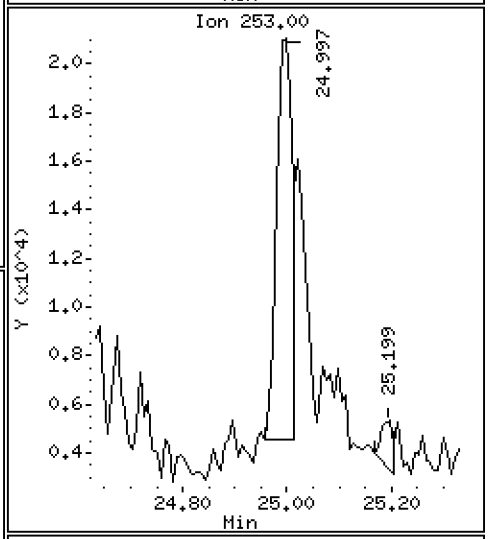


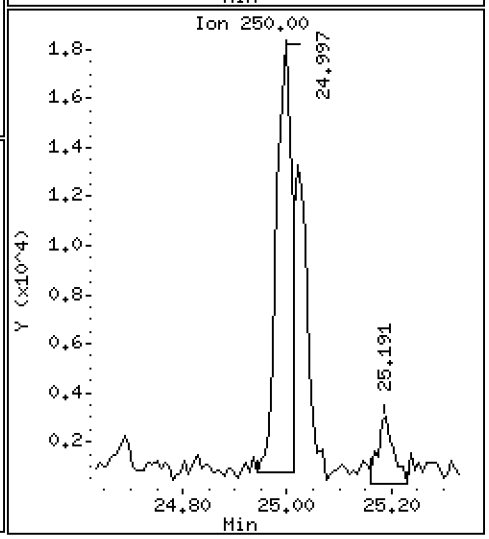












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

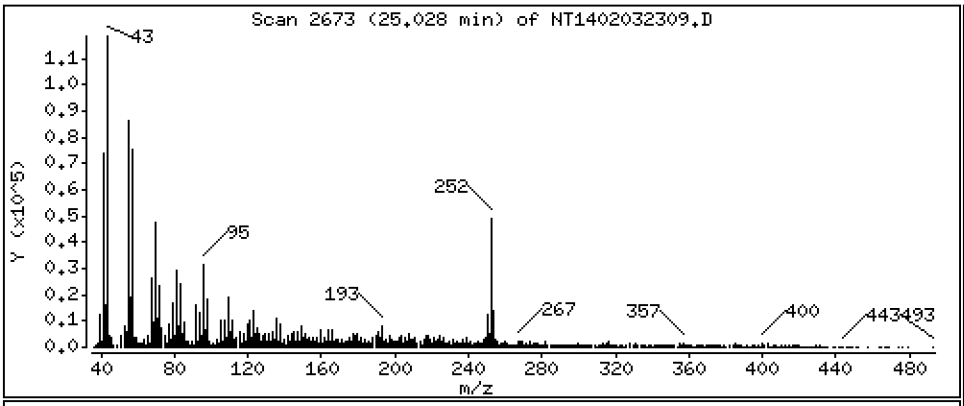
Operator: DSD

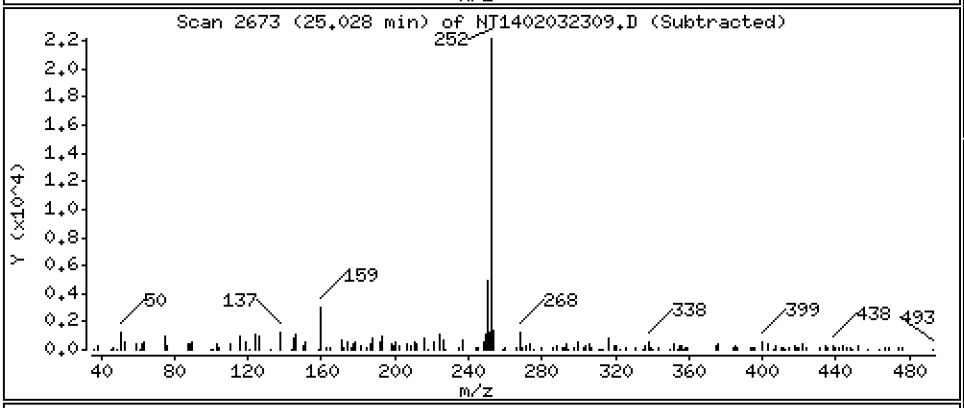
Column phase: ZB-5msi

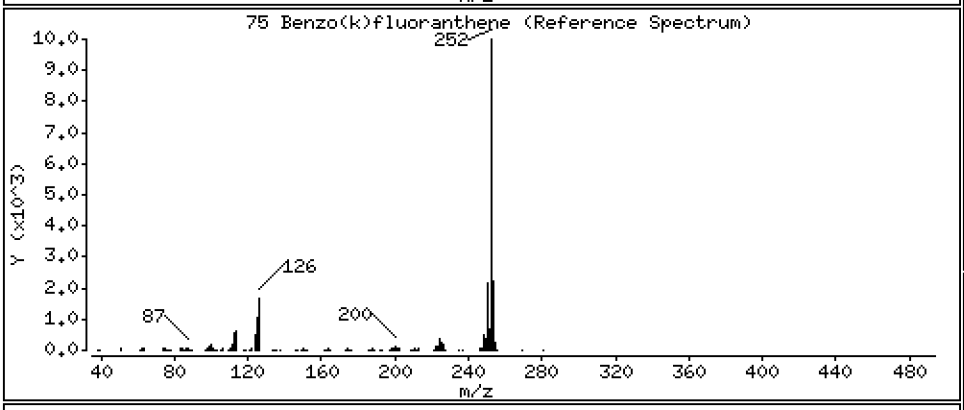
Column diameter: 0.25

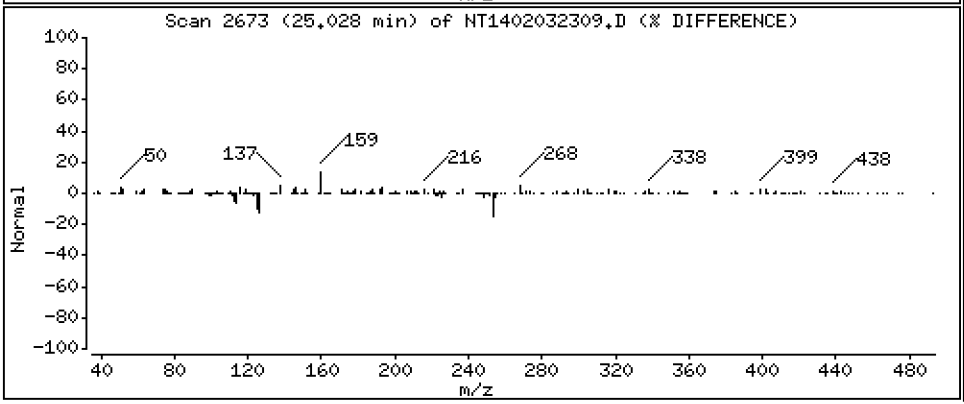
75 Benzo(k)fluoranthene

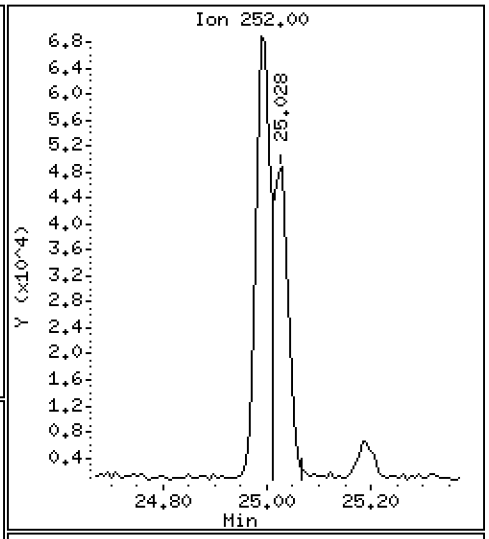
Concentration: 2.030 ug/mL

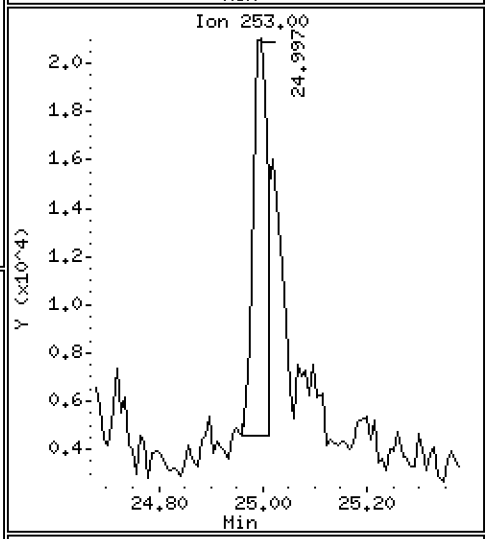


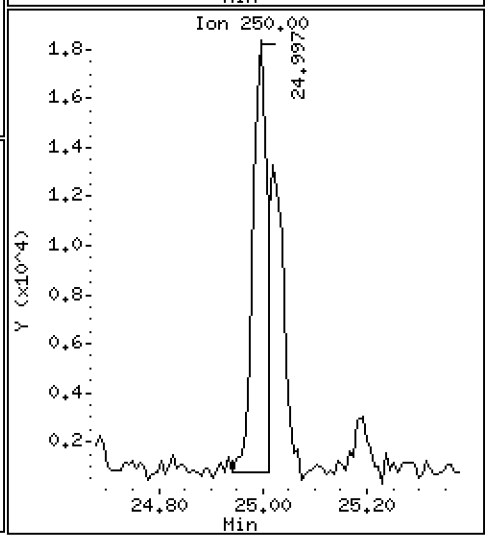












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

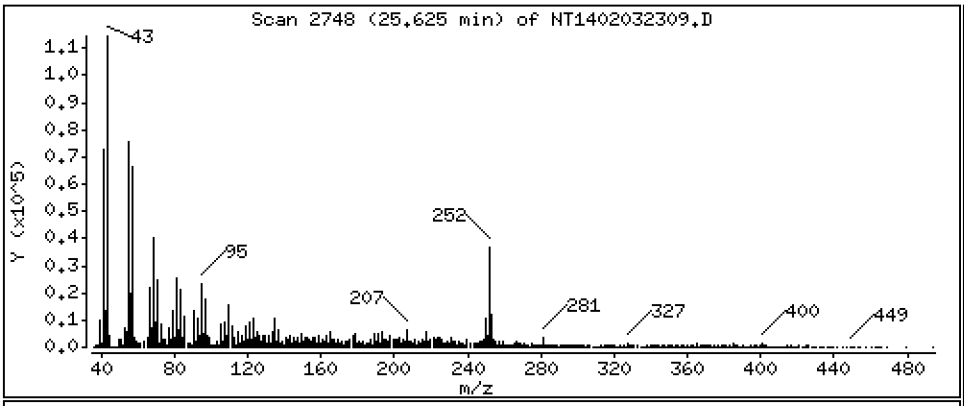
Operator: DSD

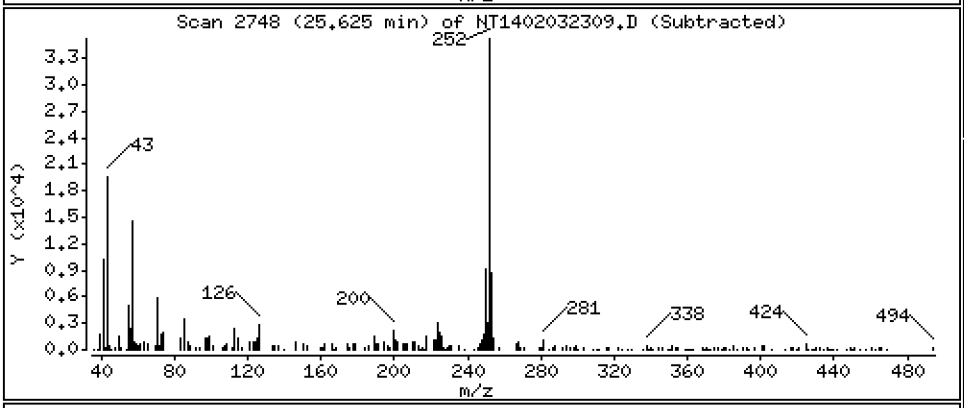
Column phase: ZB-5msi

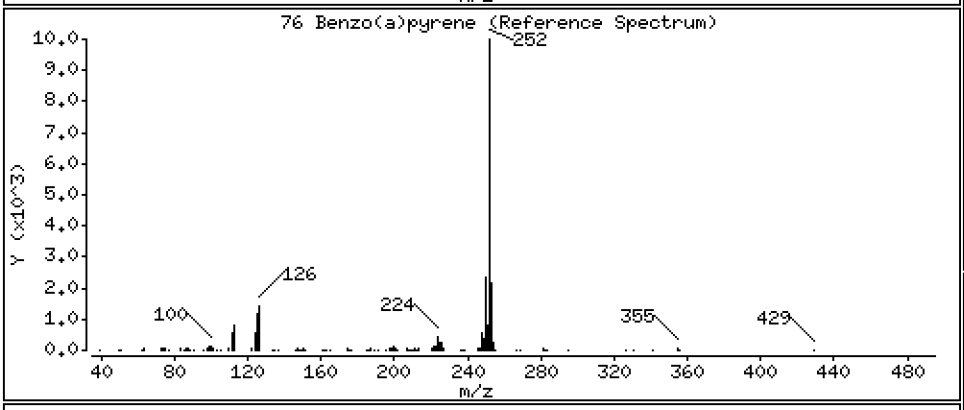
Column diameter: 0.25

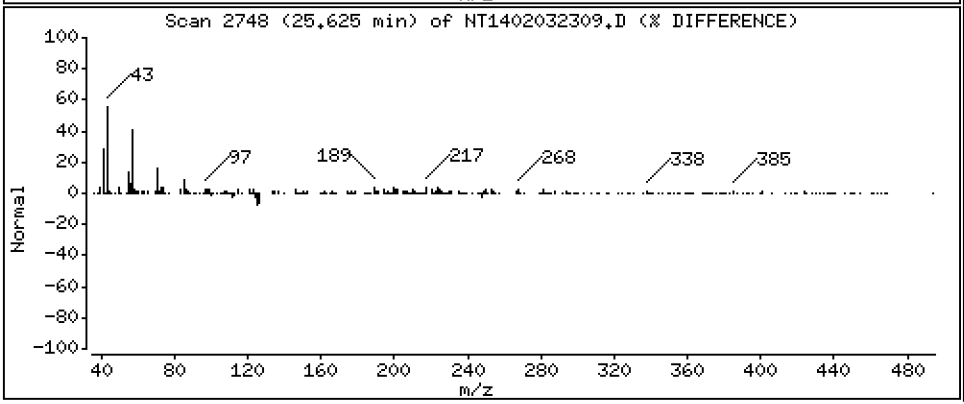
76 Benzo(a)pyrene

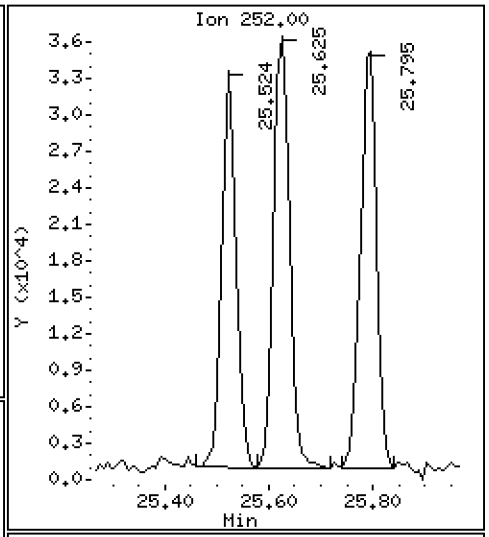
Concentration: 1.843 ug/mL

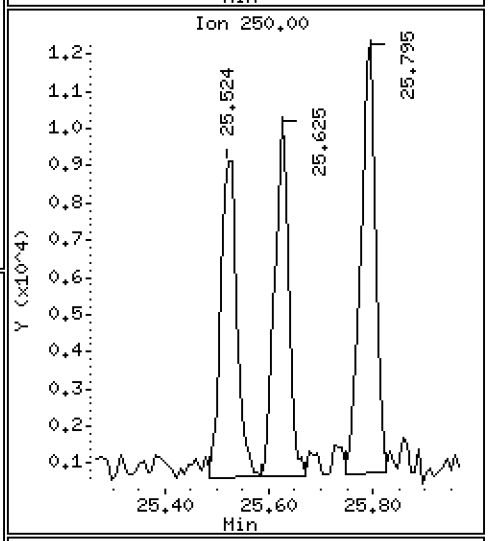


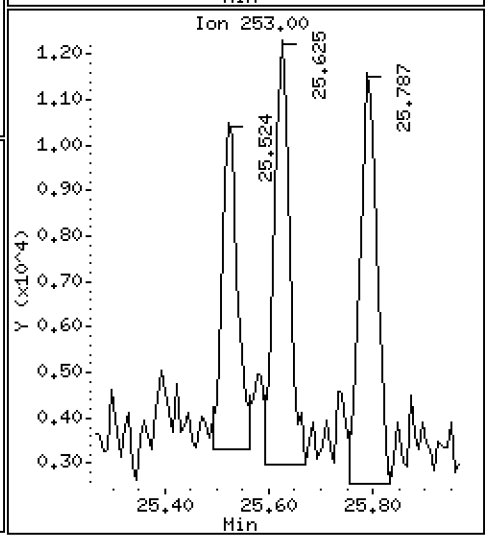












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

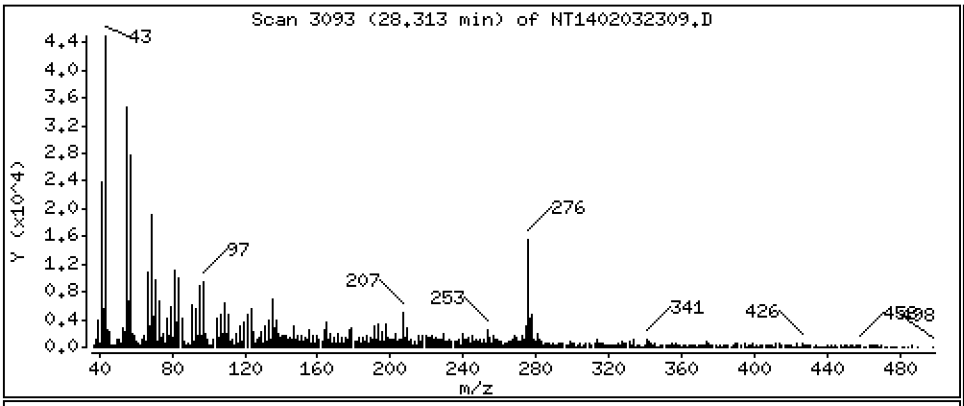
Operator: DSD

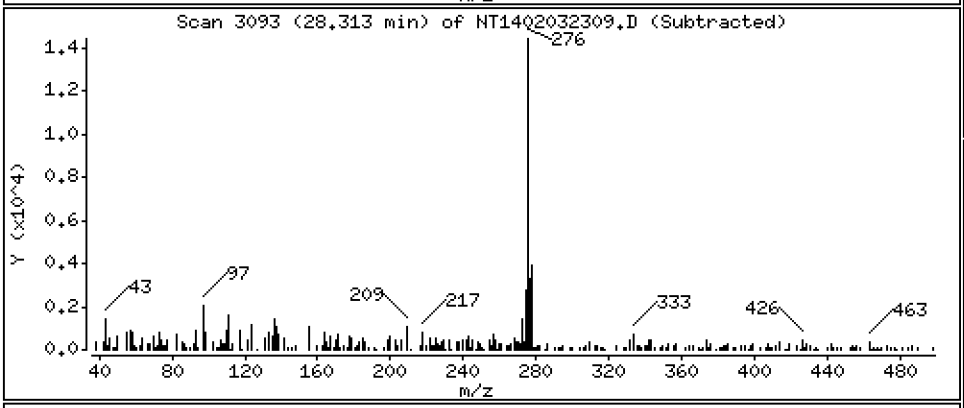
Column phase: ZB-5msi

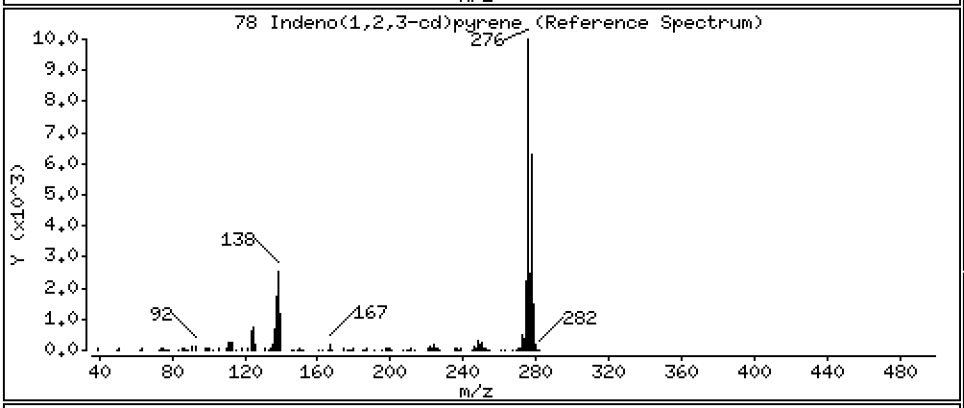
Column diameter: 0.25

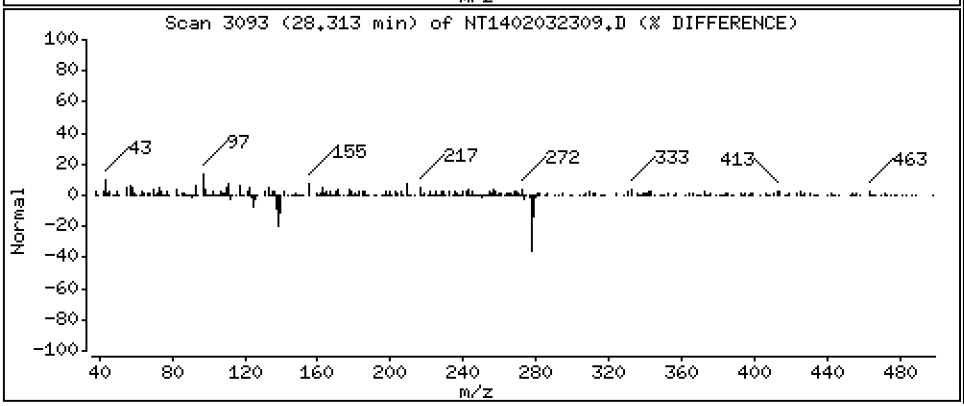
78 Indeno(1,2,3-cd)pyrene

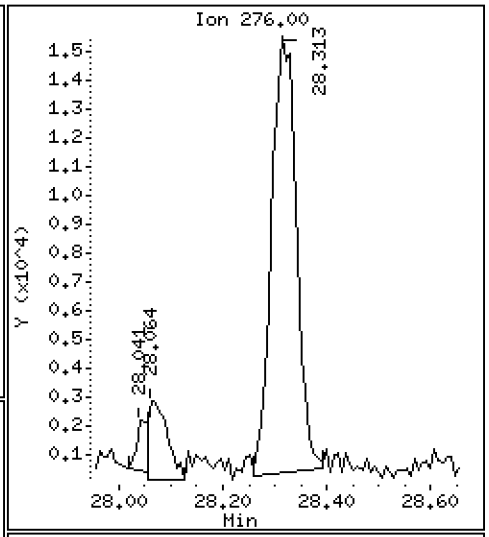
Concentration: 0.9820 ug/mL

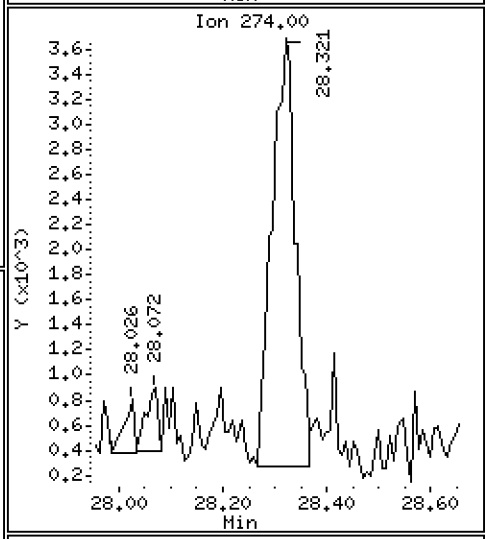


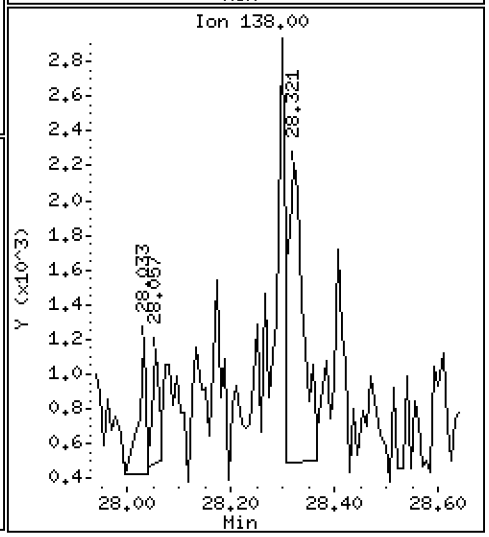












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

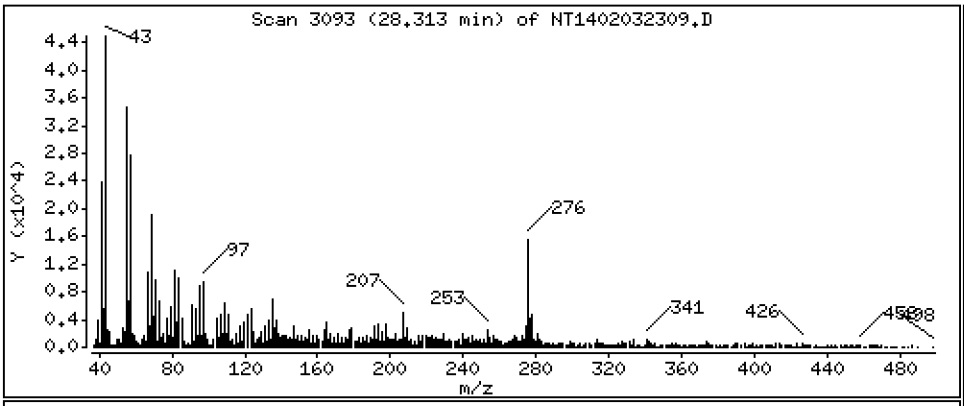
Operator: DSD

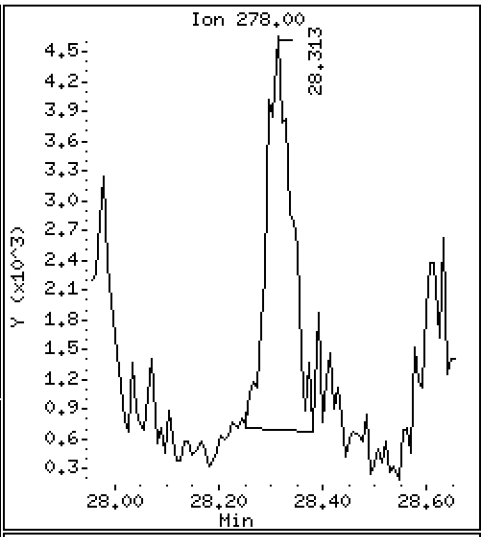
Column phase: ZB-5msi

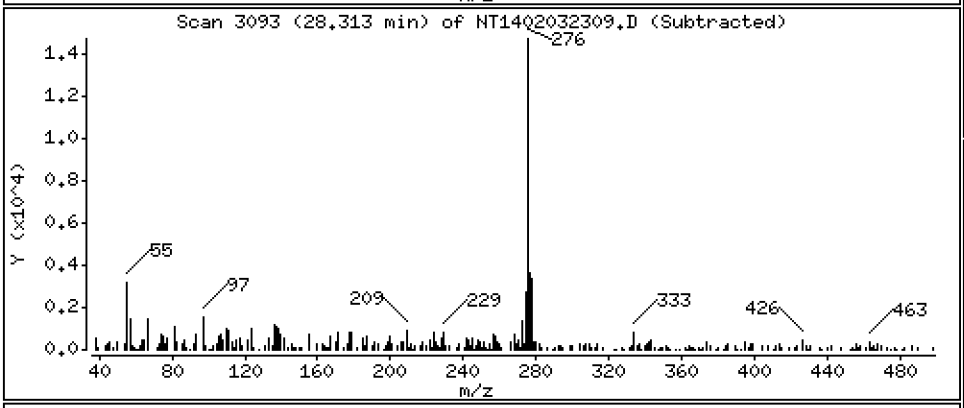
Column diameter: 0.25

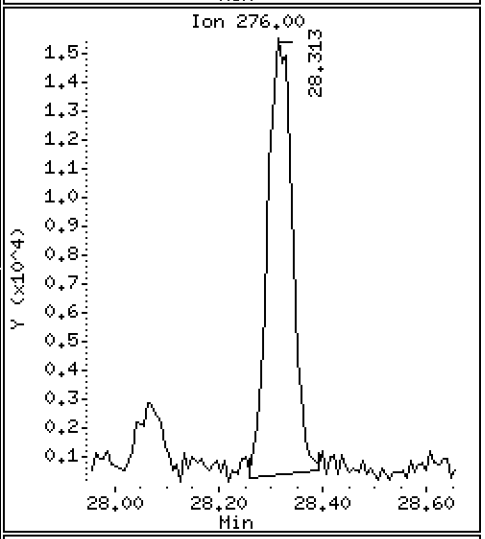
79 Dibenzo(a,h)anthracene

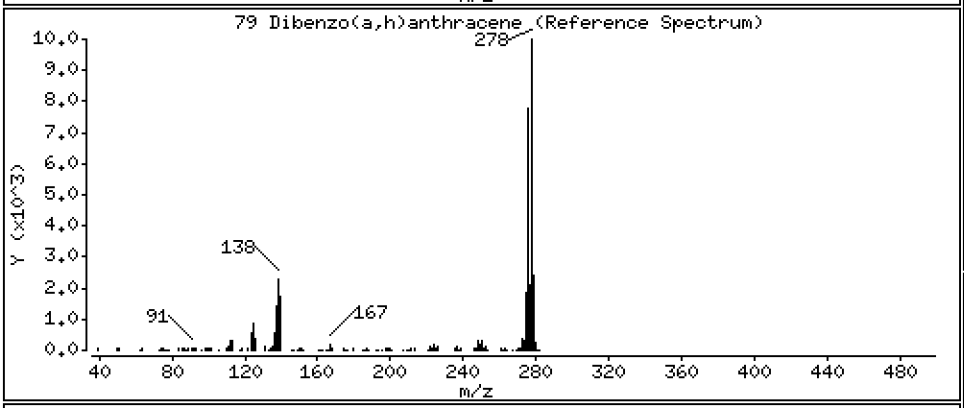
Concentration: 0.3031 ug/mL

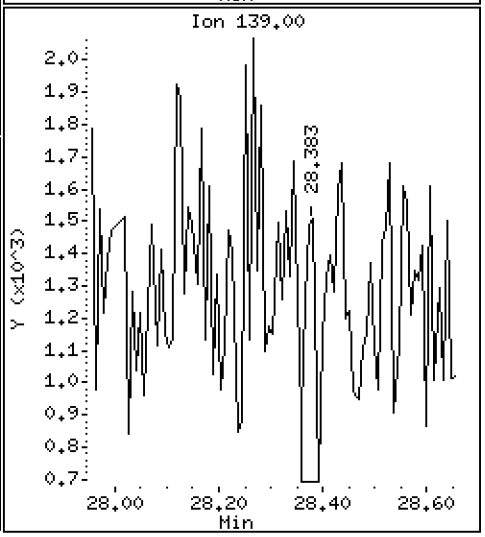


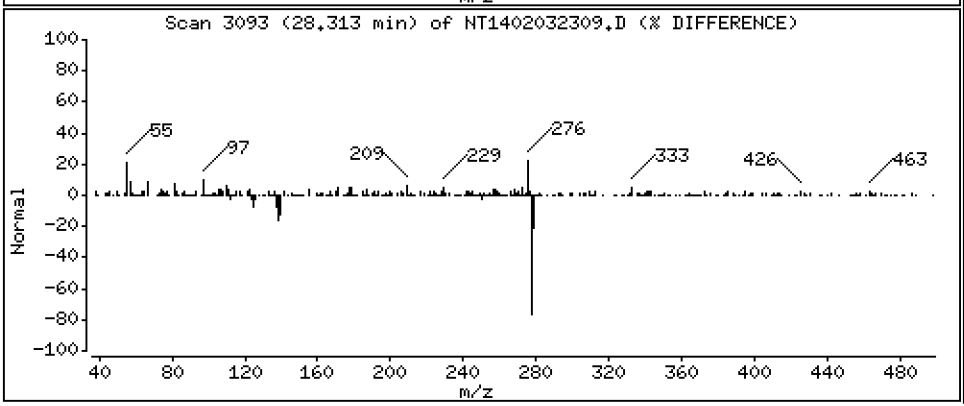












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

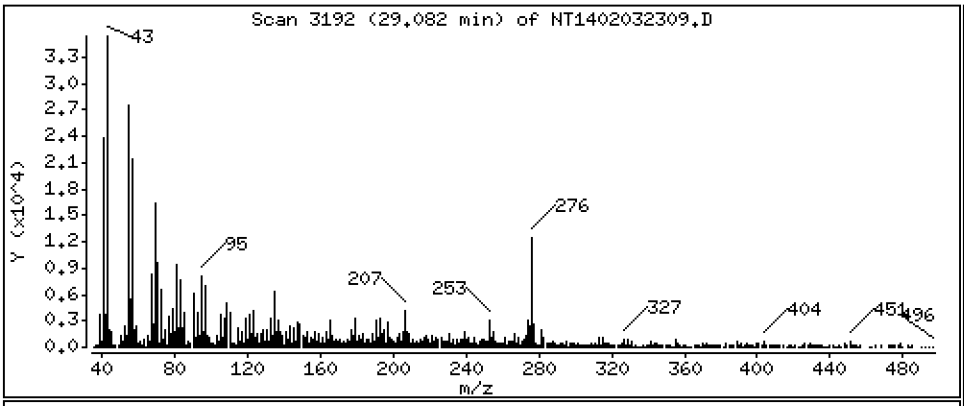
Operator: DSD

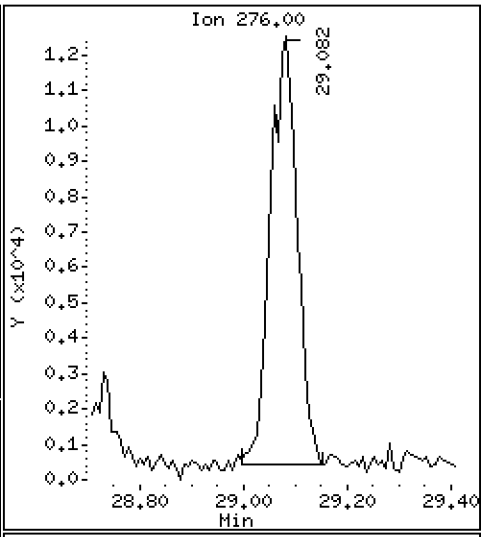
Column phase: ZB-5msi

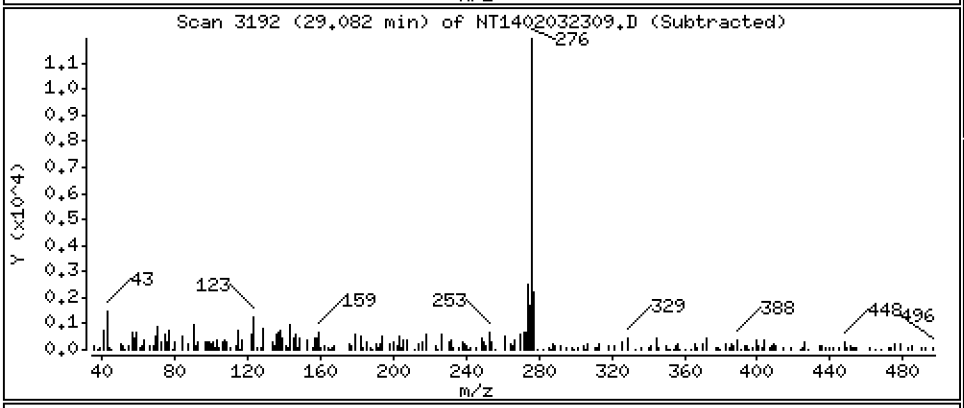
Column diameter: 0.25

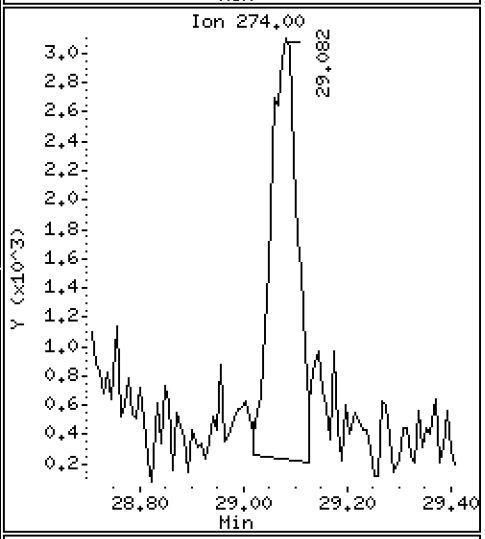
80 Benzo(g,h,i)perylene

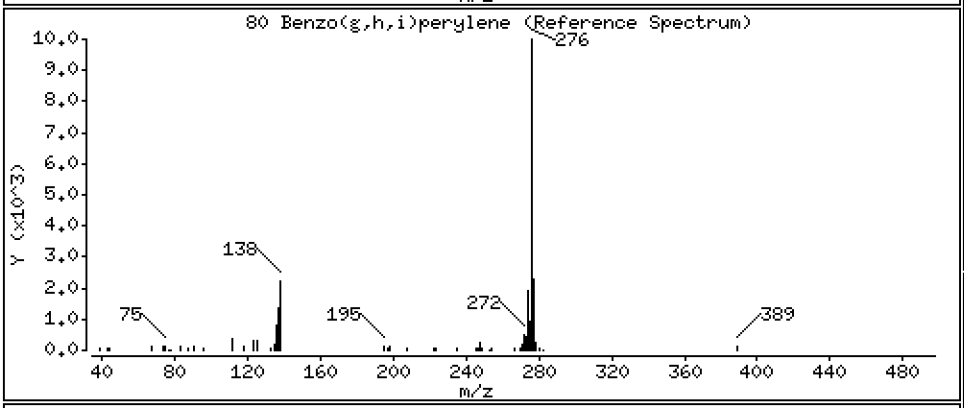
Concentration: 1.172 ug/mL

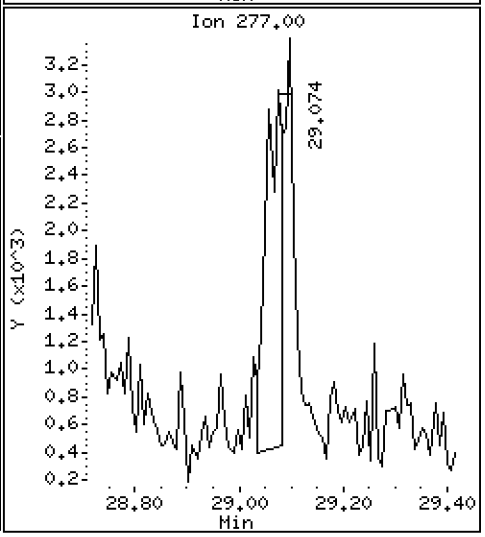


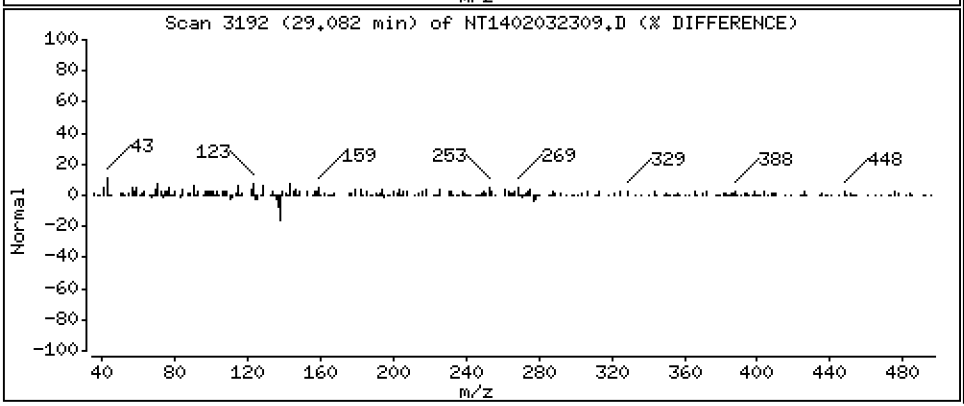












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

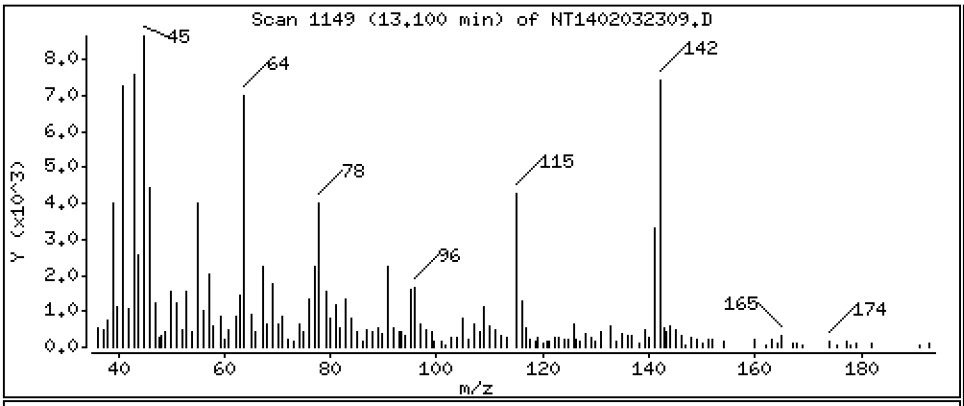
Operator: DSD

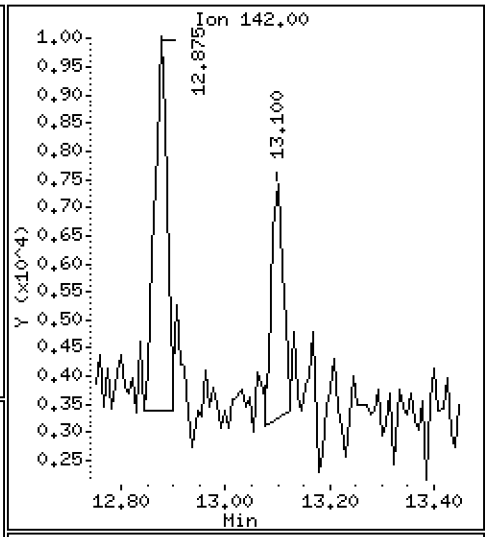
Column phase: ZB-5msi

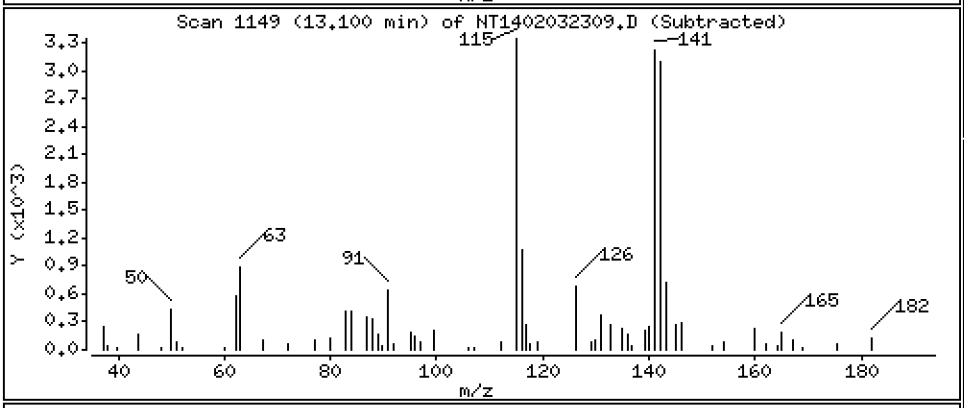
Column diameter: 0.25

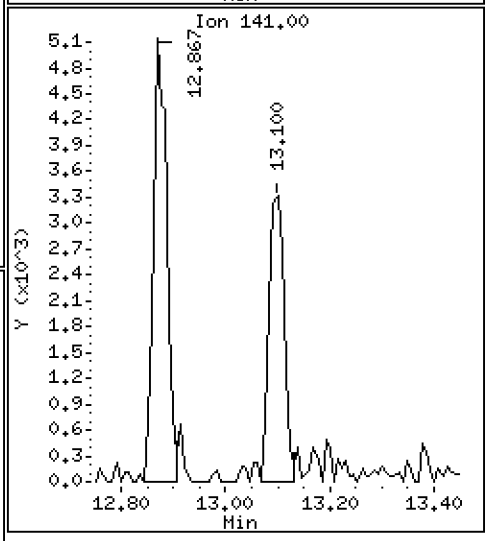
105 1-methylnaphthalene

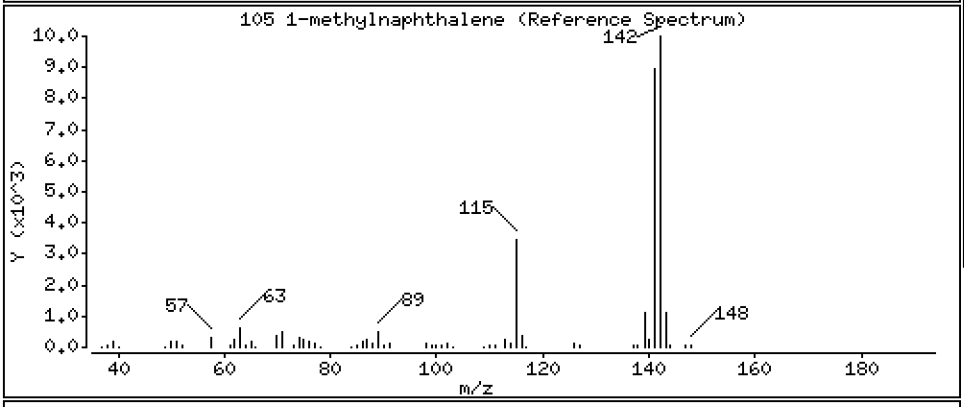
Concentration: 0.1288 ug/mL

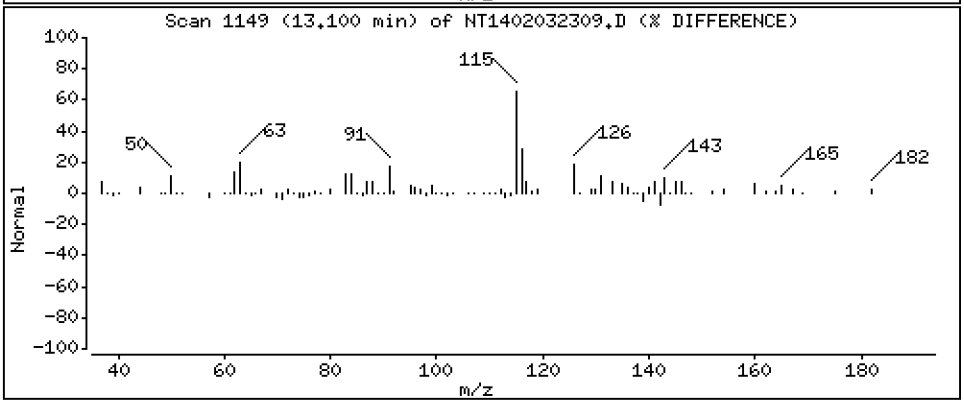












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Date : 03-FEB-2023 17:56

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-01

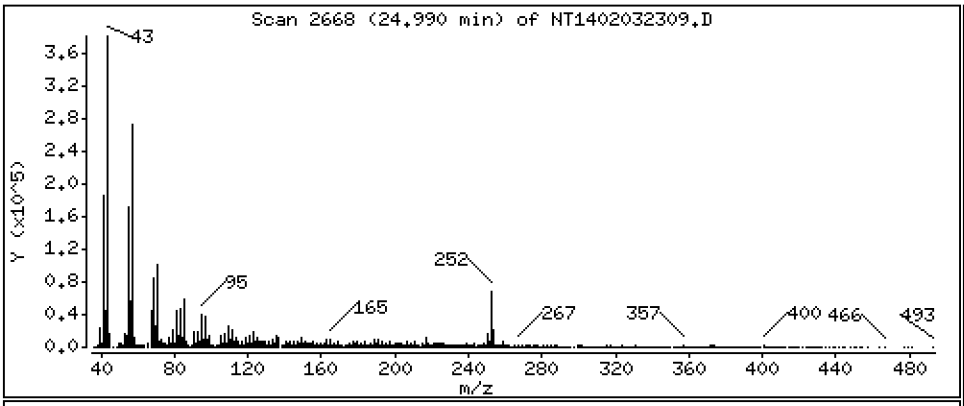
Operator: DSD

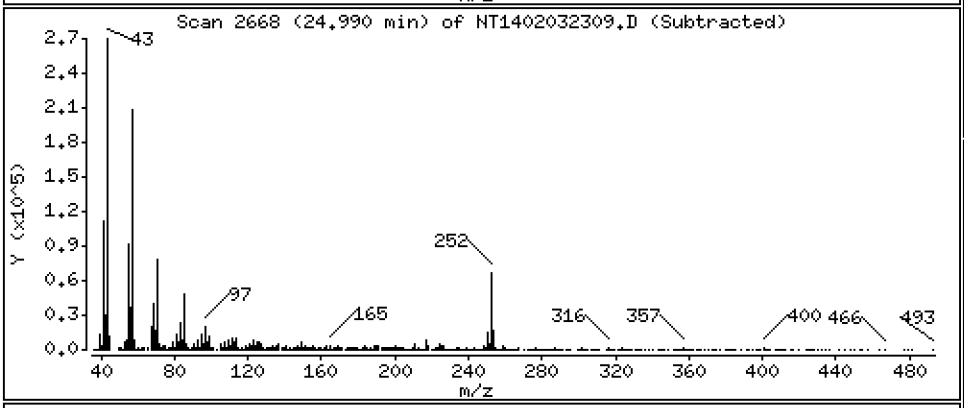
Column phase: ZB-5msi

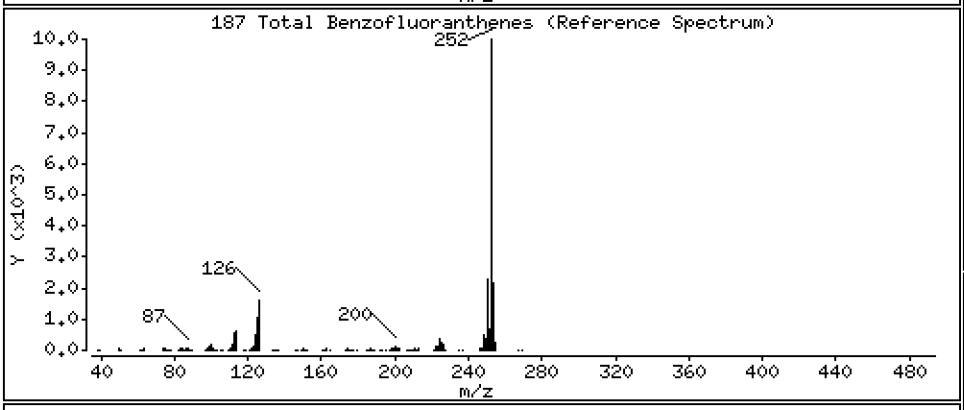
Column diameter: 0.25

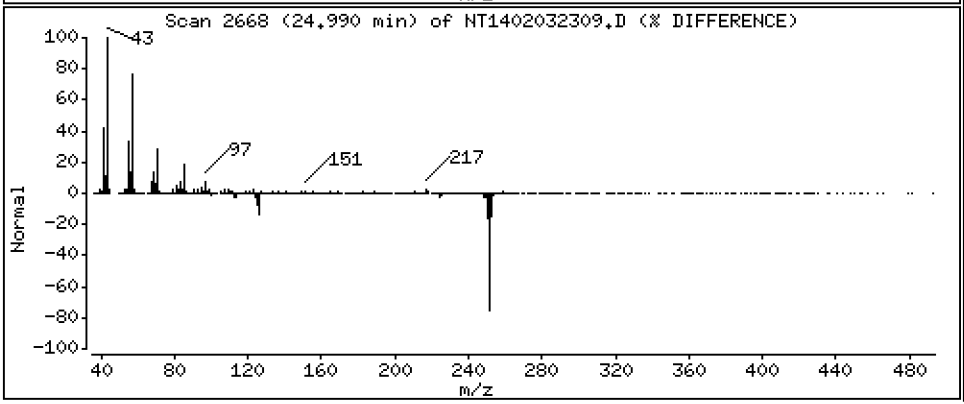
187 Total Benzofluoranthenes

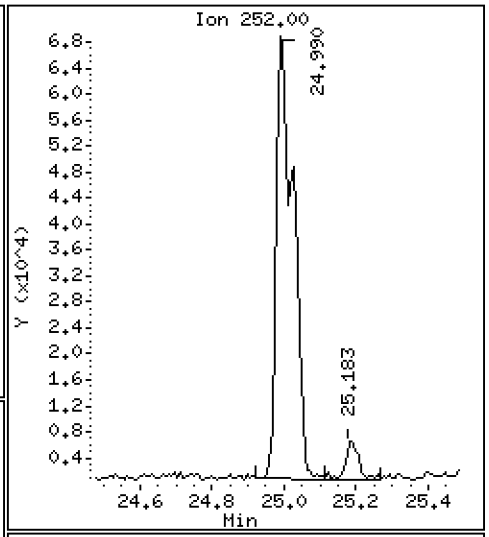
Concentration: 4.838 ug/mL

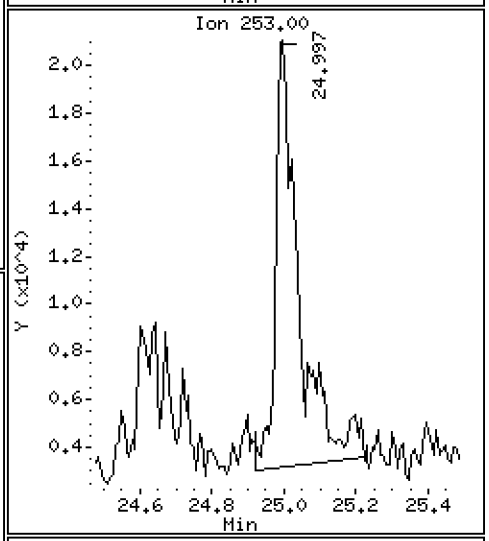


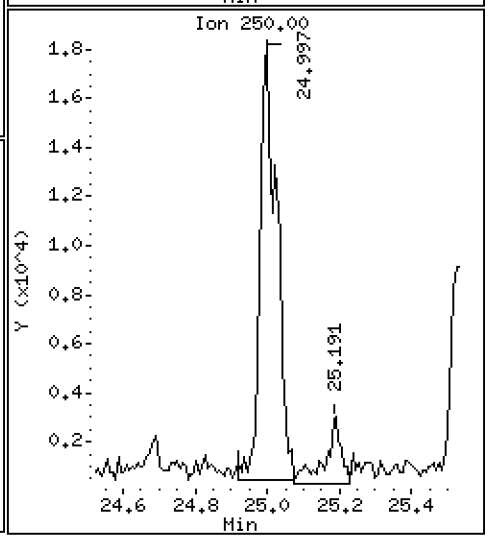












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230203.b\NT1402032309.D
Lab Smp Id: 22L0459-01
Inj Date : 03-FEB-2023 17:56 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : 22L0459-01
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.720	6.720	(0.752)	67803	4.27110	4.271
$	2 Phenol-d5	99	8.312	8.312	(0.930)	89315	4.28206	4.282
	3 Phenol	94	8.320	8.336	(0.931)	4107	0.16053	0.1605
$	5 2-Chlorophenol-d4	132	8.575	8.583	(0.959)	102527	5.08209	5.082
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.939	8.946	(1.000)	59105	4.00000	
	9 1,4-Dichlorobenzene	146	8.970	8.977	(1.003)	2208	0.09213	0.09213
$	10 1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.041)	45399	3.17075	3.171
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.723	9.722	(1.088)	18640	0.84069	0.8407
$	18 Nitrobenzene-d5	82	10.033	10.041	(0.877)	112345	3.21969	3.220
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.436	11.436	(1.000)	243874	4.00000	
	28 Naphthalene	128	11.475	11.482	(1.003)	17424	0.28396	0.2840
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.875	12.882	(1.126)	10777	0.21544	0.2154
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.664	13.664	(0.907)	207503	3.50118	3.501
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.562	14.570	(0.967)	8223	0.12888	0.1289
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.057	15.057	(1.000)	166531	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.119	15.127	(1.004)	6138	0.11756	0.1176
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.451	15.451	(1.026)	11205	0.14810	0.1481
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.023	16.031	(1.064)	14982	0.16159	0.1616
	49	Fluorene	166	16.170	16.163	(1.074)	12035	0.12933	0.1293
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.702	16.702	(1.109)	83736	6.06853	6.069
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.101	18.093	(1.000)	342509	4.00000	
	60	Phenanthrene	178	18.147	18.147	(1.003)	86372	0.93461	0.9346
	61	Anthracene	178	18.240	18.232	(1.008)	30627	0.34683	0.3468
	62	Carbazole	167	18.573	18.565	(1.026)	12606	0.15546	0.1555
	63	Di-n-butylphthalate	149	19.385	19.377	(1.071)	18419	0.14651	0.1465
	64	Fluoranthene	202	20.569	20.538	(0.888)	177928	3.20042	3.200
	65	Pyrene	202	20.979	20.963	(0.906)	462537	7.85816	7.858
$	66	Terphenyl-d14	244	21.258	21.250	(0.918)	235118	4.97468	4.975
	67	Butylbenzylphthalate	149	22.187	22.179	(0.958)	13303	0.45231	0.4523
	68	Benzo(a)anthracene	228	23.131	23.123	(0.999)	53932	1.03428	1.034
*	69	Chrysene-d12	240	23.162	23.154	(1.000)	142966	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.201	23.201	(1.002)	68782	1.38915	1.389
	72	bis(2-Ethylhexyl)phthalate	149	23.209	23.201	(0.960)	189608	5.10959	5.110
*	134	Di-n-octylphthalate-d4	153	24.184	24.184	(1.000)	217135	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	24.989	24.981	(0.971)	143992	3.06275	3.063
	75	Benzo(k)fluoranthene	252	25.028	25.020	(0.972)	97694	2.02967	2.030(M)
	76	Benzo(a)pyrene	252	25.624	25.616	(0.995)	74039	1.84313	1.843
*	77	Perylene-d12	264	25.740	25.725	(1.000)	133791	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.313	28.305	(1.100)	49835	0.98197	0.9820
	79	Dibenzo(a,h)anthracene	278	28.313	28.305	(1.100)	13246	0.30308	0.3031(M)
	80	Benzo(g,h,i)perylene	276	29.082	29.058	(1.130)	44063	1.17241	1.172
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.099	13.099	(1.145)	6256	0.12878	0.1288
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.989	24.981	(0.971)	221438	4.83814	4.838
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032309.D
Lab Smp Id: 22L0459-01
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	59105	-8.99
27 Naphthalene-d8	262858	131429	525716	243874	-7.22
42 Acenaphthene-d10	167543	83772	335086	166531	-0.60
59 Phenanthrene-d10	341039	170520	682078	342509	0.43
69 Chrysene-d12	222731	111366	445462	142966	-35.81
134 Di-n-octylphthala	333425	166713	666850	217135	-34.88
77 Perylene-d12	152721	76361	305442	133791	-12.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.09
27 Naphthalene-d8	11.44	10.94	11.94	11.44	0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.10	0.04
69 Chrysene-d12	23.15	22.65	23.65	23.16	0.03
134 Di-n-octylphthala	24.18	23.68	24.68	24.18	0.00
77 Perylene-d12	25.73	25.23	26.23	25.74	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032309.D

Lab ID: 22L0459-01
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 17:56

RT	CO-ELUTION COMPOUNDS
28.313	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
28.313	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

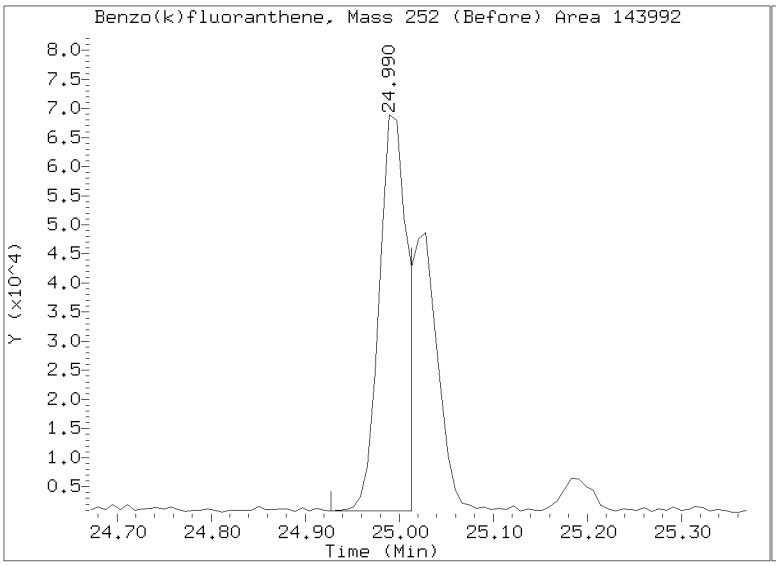
RRT check based on Ccal File: NT1402032303.D

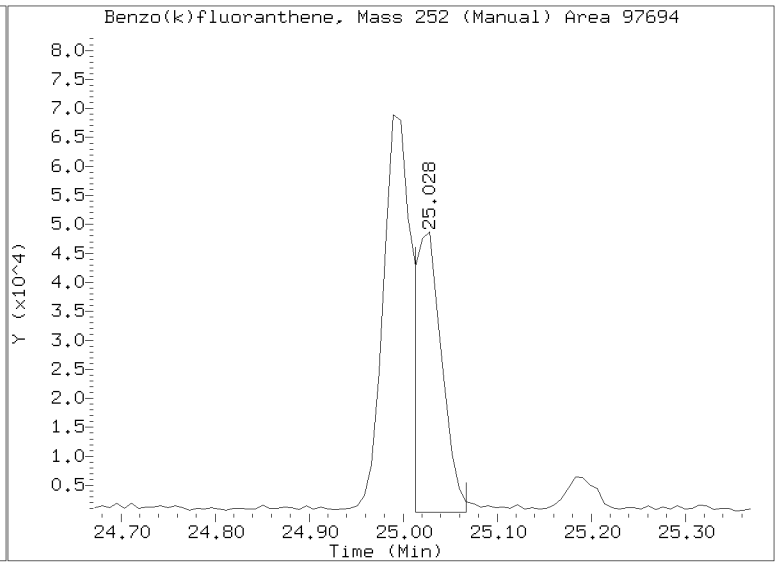
On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

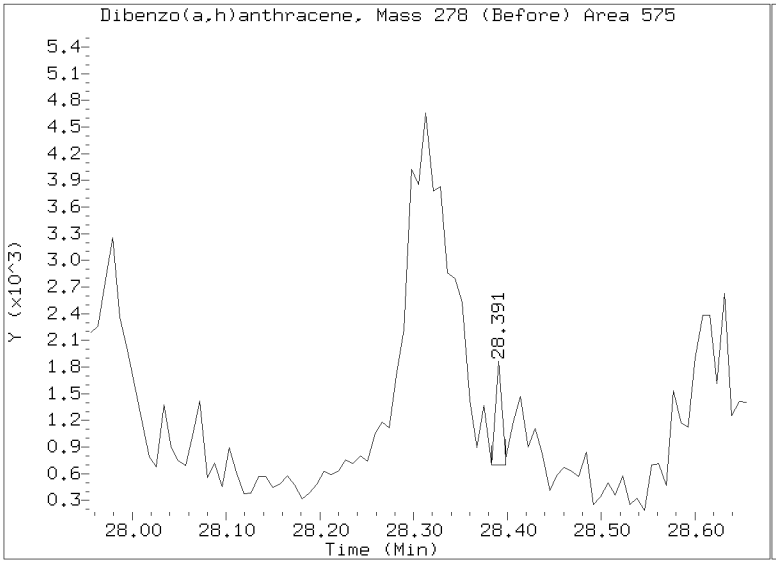
* Only compounds listed in the work order have been verified by the analyst *

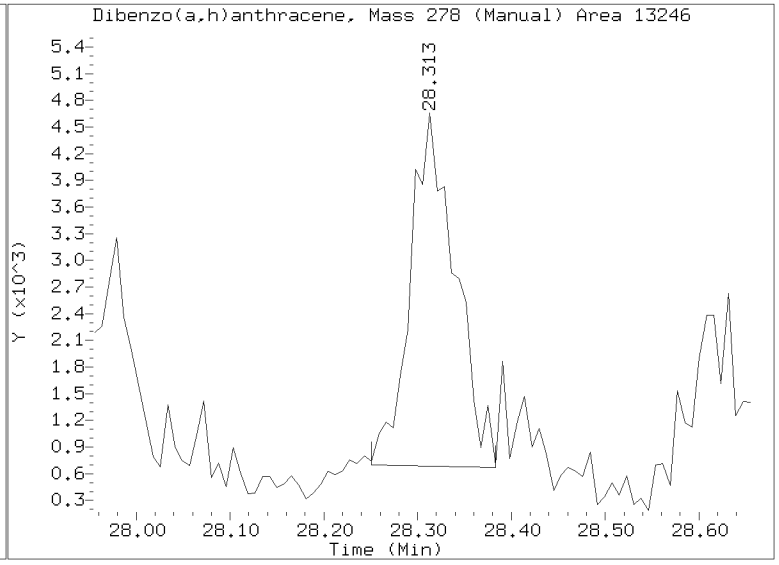
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032309.D
Injection Date: 03-FEB-2023 17:56
Lab ID:22L0459-01 Client ID:
Report Date: 02/04/2023 10:28









Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1053C

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-02 A	SDG:	22L0459
Sampled:	12/16/22 09:12	Prepared:	01/05/23 16:13	File ID:	NT1402032312.D
% Solids:	57.86	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 19:45
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	17.31 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	24.2		4.4	20.0
106-44-5	4-Methylphenol	1	22.5		7.4	20.0
91-20-3	Naphthalene	1	23.6		4.2	20.0
91-57-6	2-Methylnaphthalene	1	17.8	J	4.5	20.0
208-96-8	Acenaphthylene	1	19.2	J	6.2	20.0
131-11-3	Dimethylphthalate	1	9.0	J	4.4	20.0
83-32-9	Acenaphthene	1	22.3		5.2	20.0
132-64-9	Dibenzofuran	1	21.8		14.1	20.0
86-73-7	Fluorene	1	29.3		14.5	20.0
85-01-8	Phenanthrene	1	190		8.7	20.0
120-12-7	Anthracene	1	216		7.2	20.0
206-44-0	Fluoranthene	1	824		6.1	20.0
129-00-0	Pyrene	1	858		5.7	20.0
85-68-7	Butylbenzylphthalate	1	50.7		9.4	20.0
56-55-3	Benzo(a)anthracene	1	573		6.0	20.0
218-01-9	Chrysene	1	1080		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	190		5.5	49.9
	Benzofluoranthenes, Total	1	1210		10.0	39.9
50-32-8	Benzo(a)pyrene	1	434		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	168		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	55.9		17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	183		13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.83	460	61.5	27 - 120	
Phenol-d5	748.83	529	70.7	29 - 120	
2-Chlorophenol-d4	748.83	585	78.2	31 - 120	
1,2-Dichlorobenzene-d4	499.22	369	73.8	32 - 120	
Nitrobenzene-d5	499.22	386	77.4	30 - 120	
2-Fluorobiphenyl	499.22	423	84.8	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1053C

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

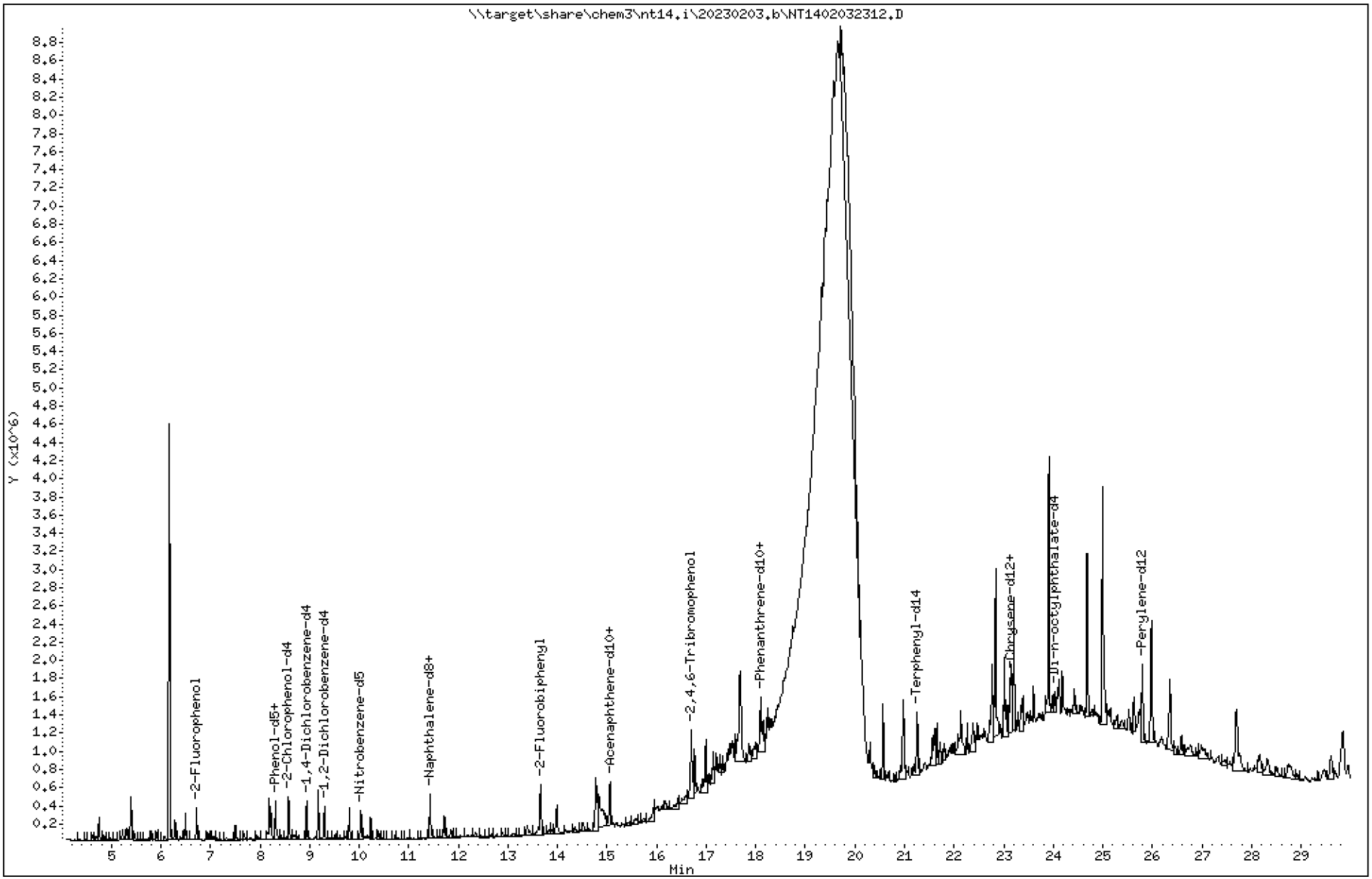
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-02 A	SDG:	22L0459
Sampled:	12/16/22 09:12	Prepared:	01/05/23 16:13	File ID:	NT1402032312.D
% Solids:	57.86	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 19:45
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	17.31 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	748.83	687	91.7	24 - 134	
p-Terphenyl-d14	499.22	523	105	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032312.D
Date : 03-FEB-2023 19:45
Client ID:
Sample Info: 22L0459-02

Instrument: nt14.i
Operator: DSD
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

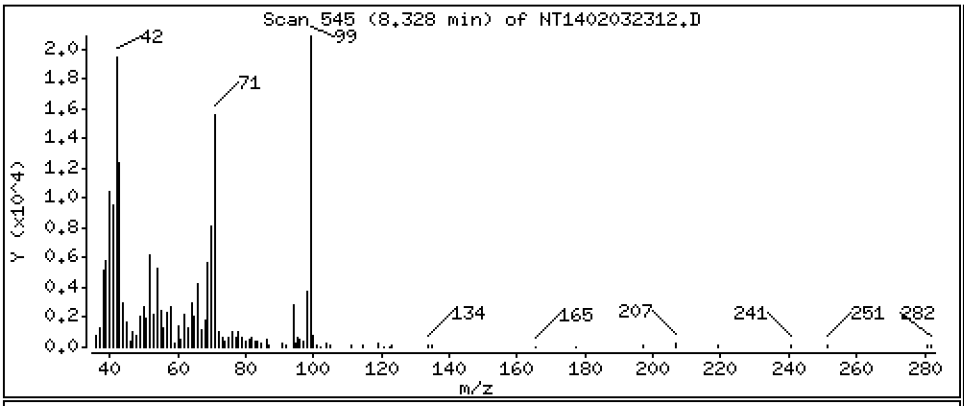
Operator: DSD

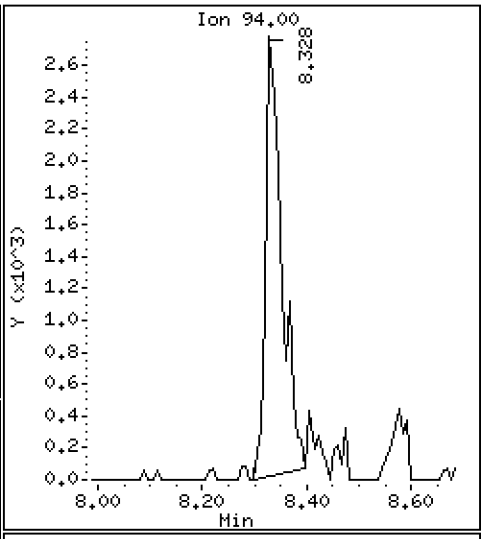
Column phase: ZB-5msi

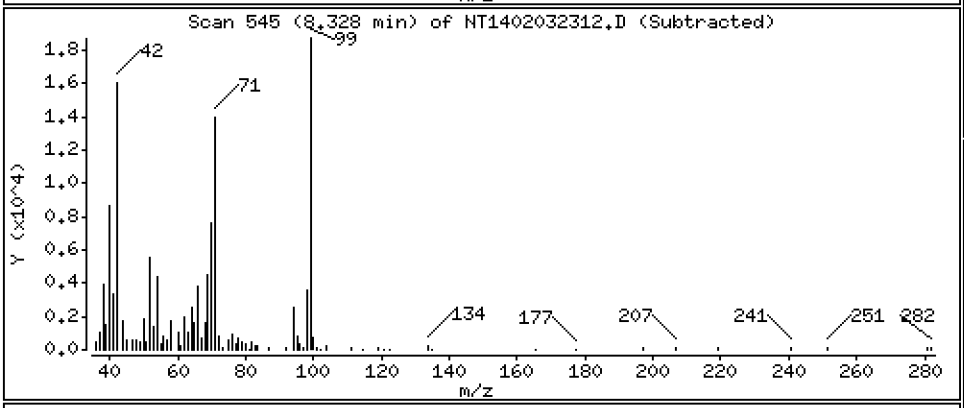
Column diameter: 0.25

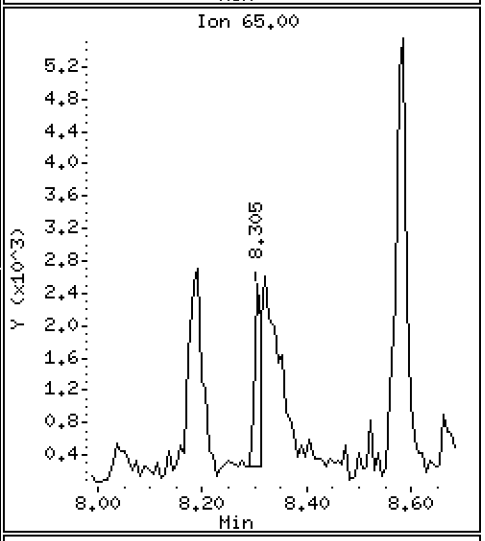
3 Phenol

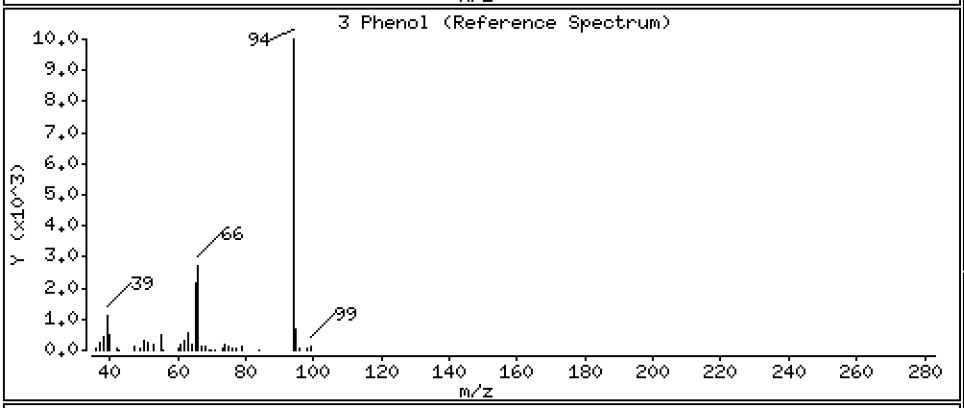
Concentration: 0.2429 ug/mL

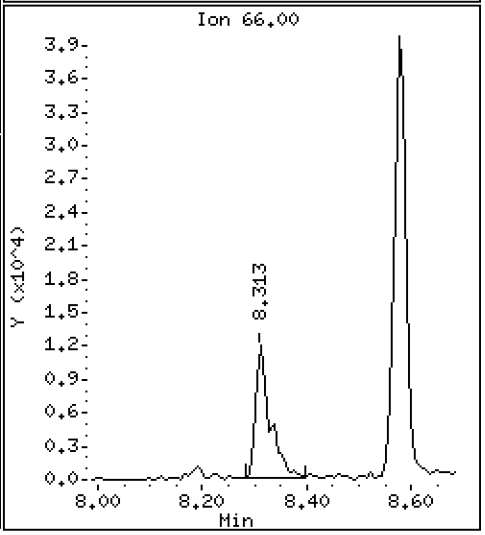


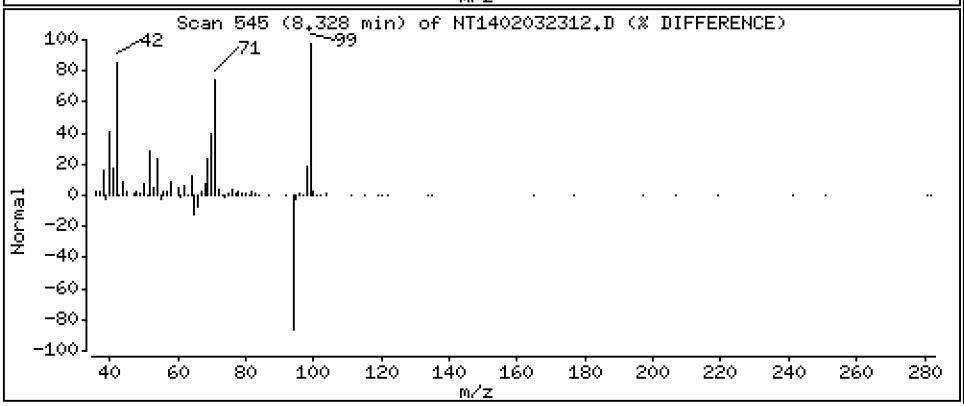












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

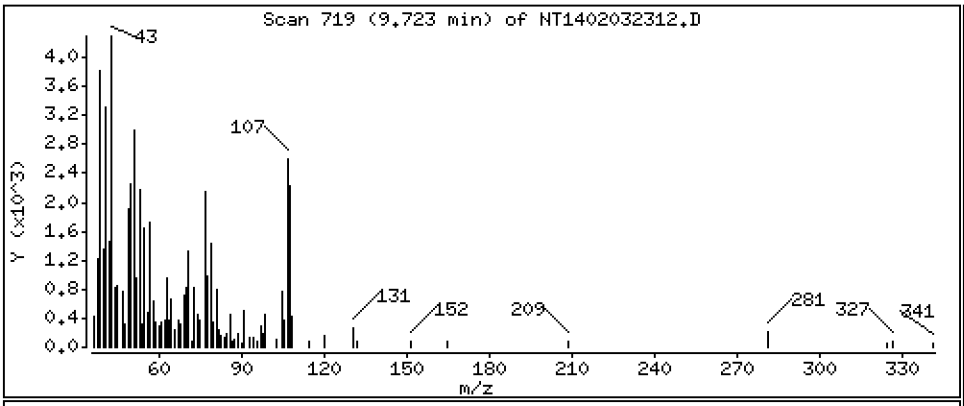
Operator: DSD

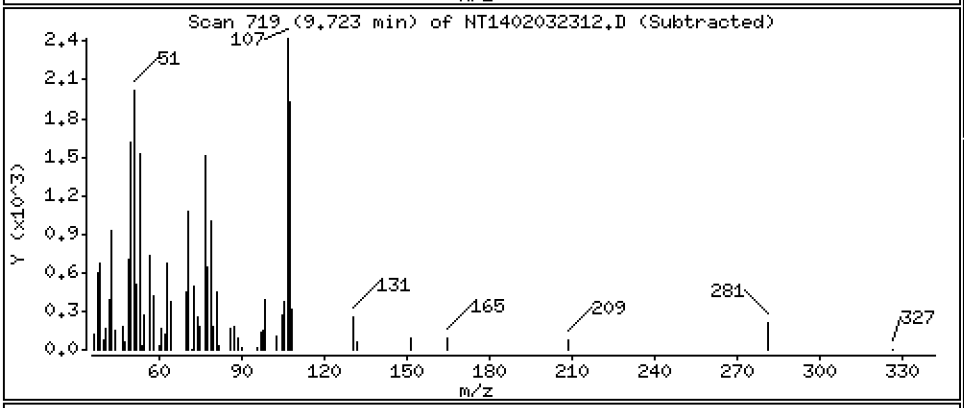
Column phase: ZB-5msi

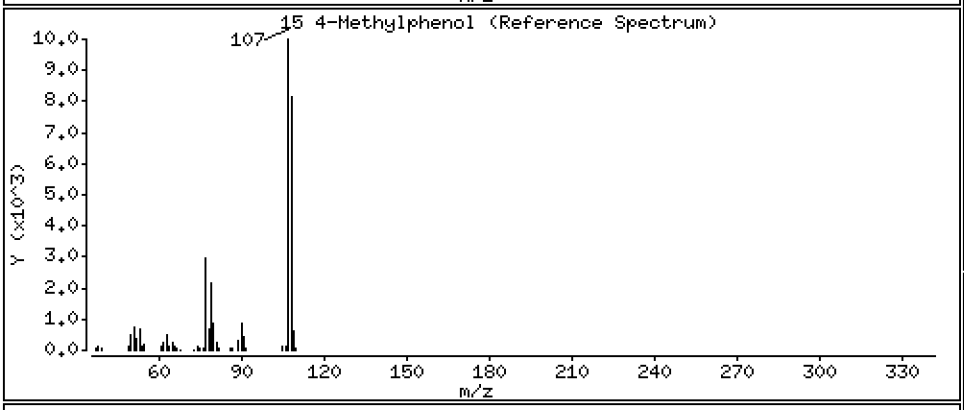
Column diameter: 0.25

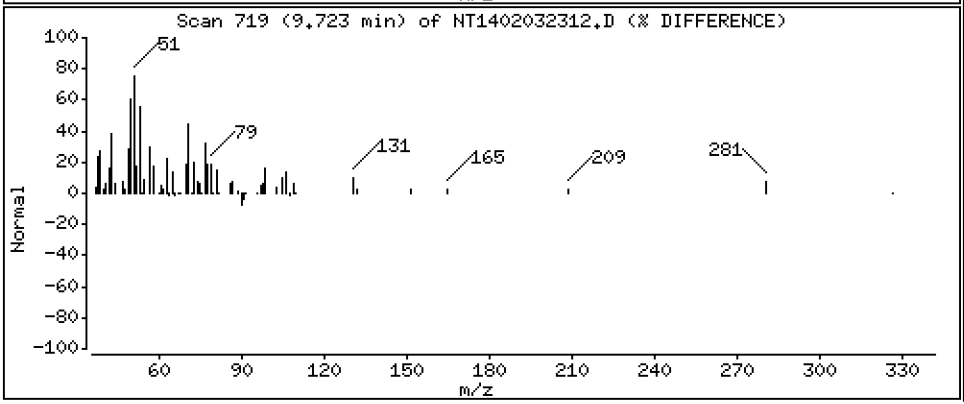
15 4-Methylphenol

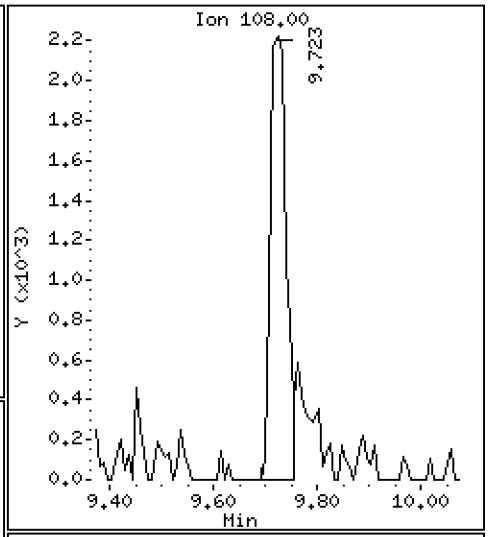
Concentration: 0.2258 ug/mL

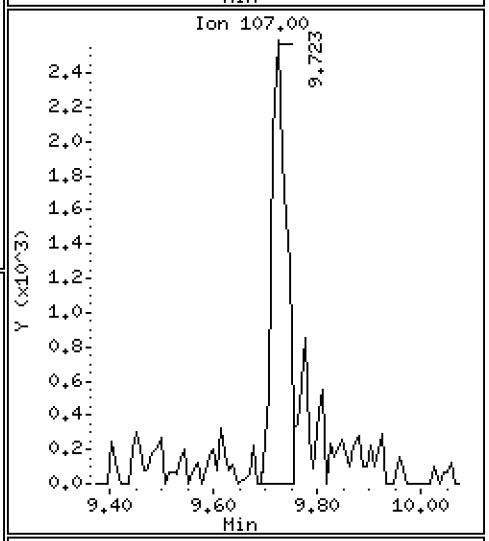


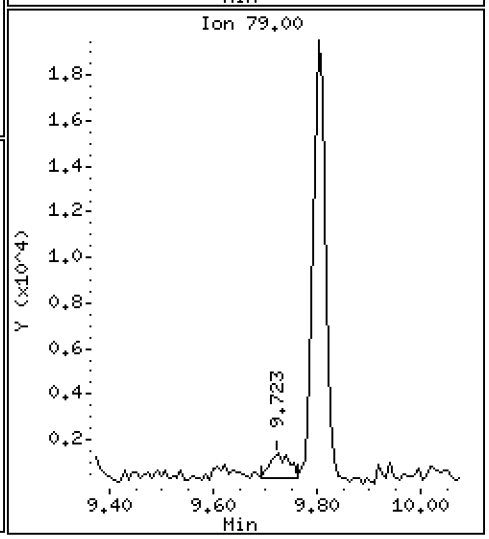












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

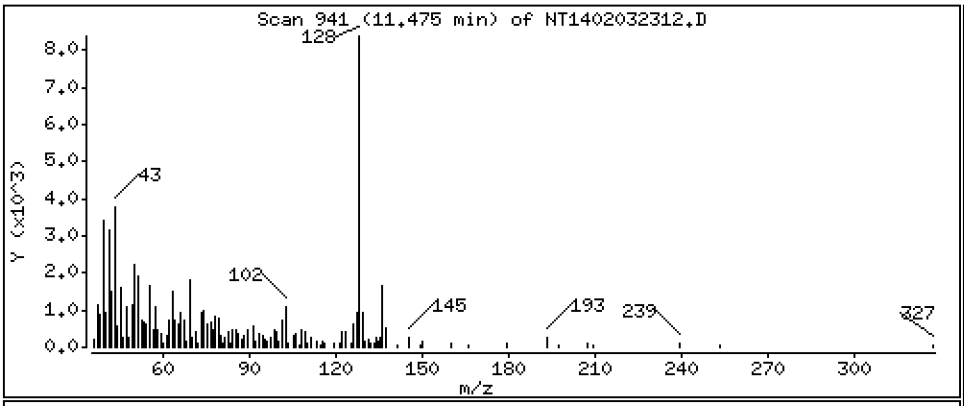
Operator: DSD

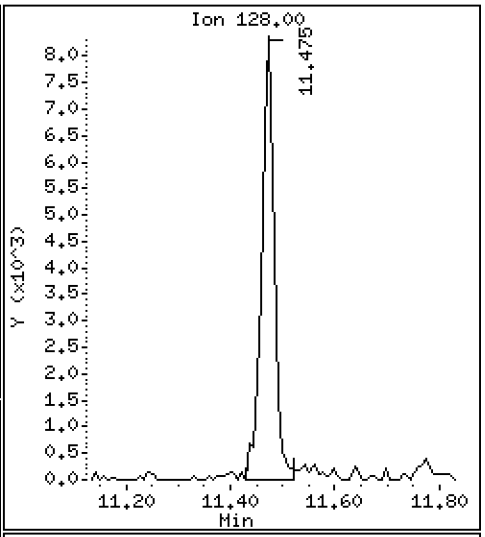
Column phase: ZB-5msi

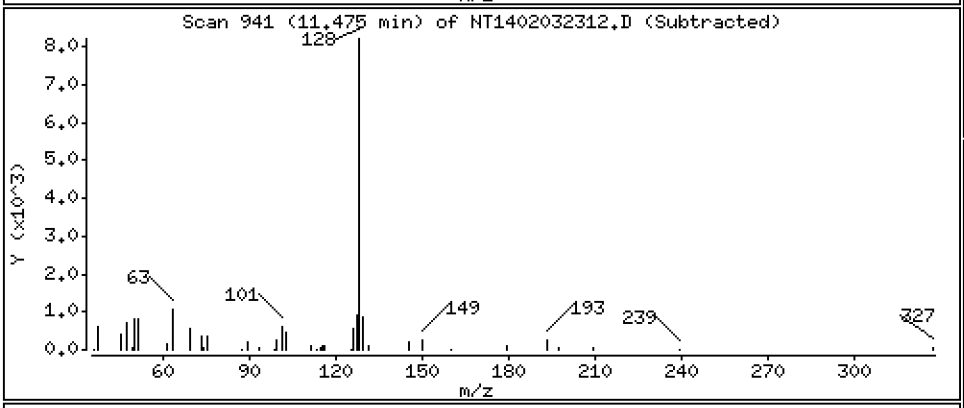
Column diameter: 0.25

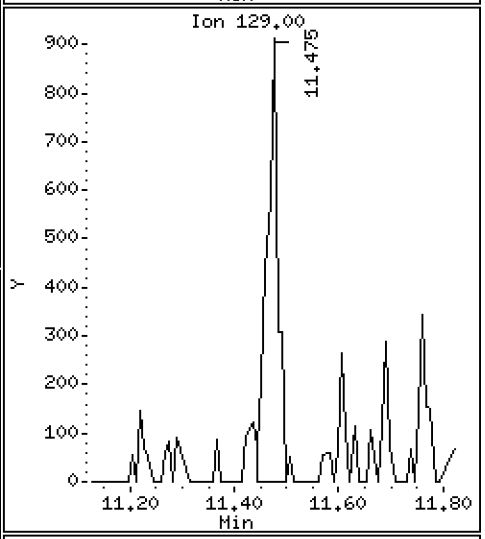
28 Naphthalene

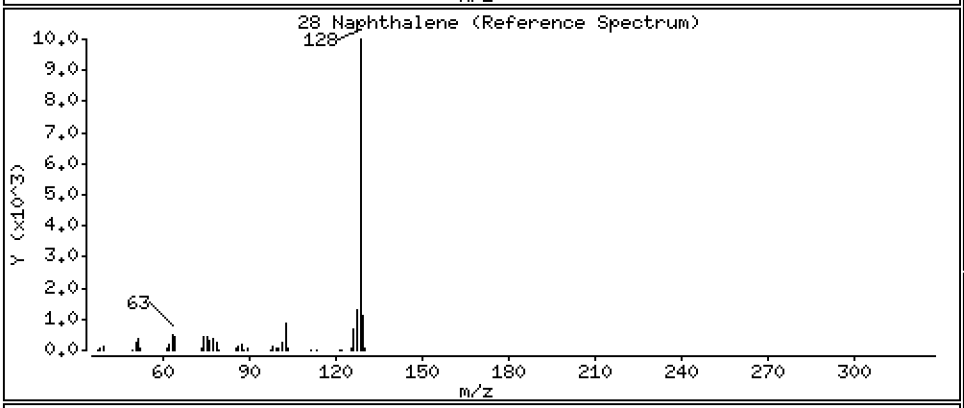
Concentration: 0.2368 ug/mL

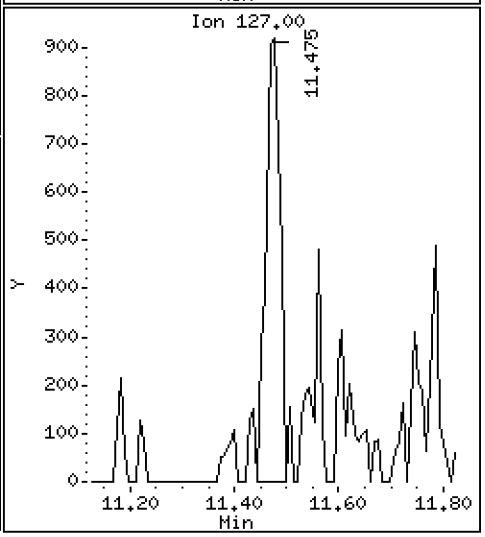


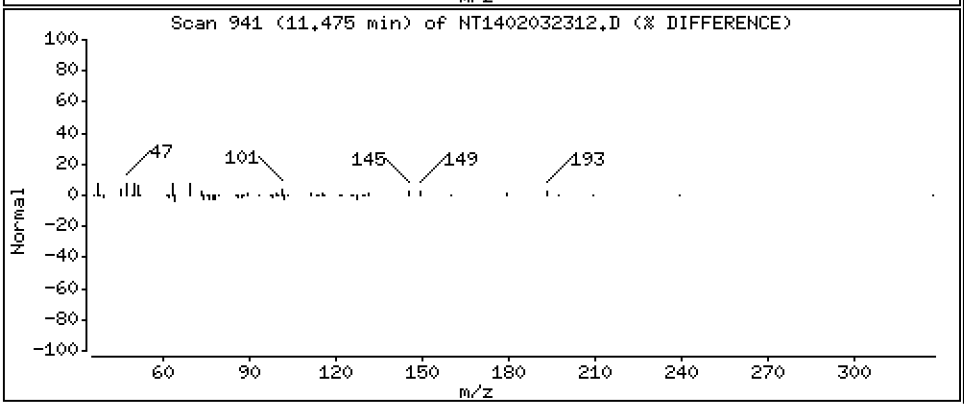












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032312.D

Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

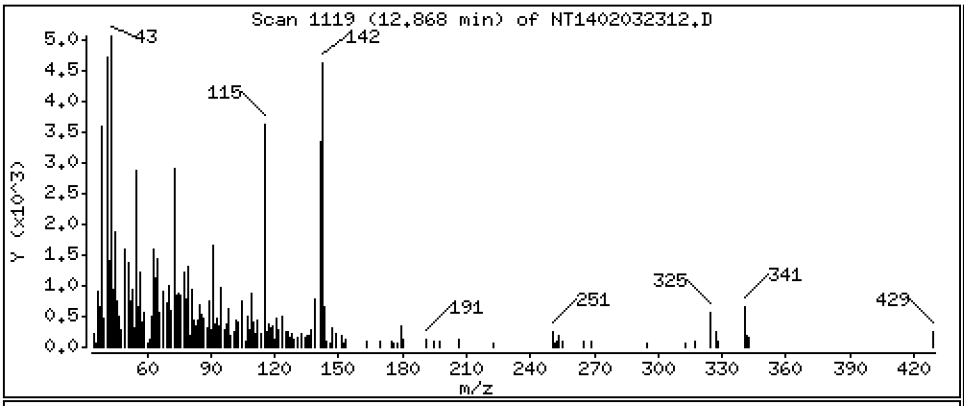
Operator: DSD

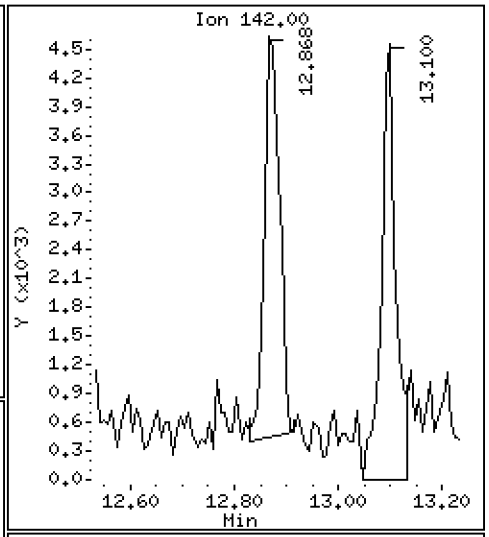
Column phase: ZB-5msi

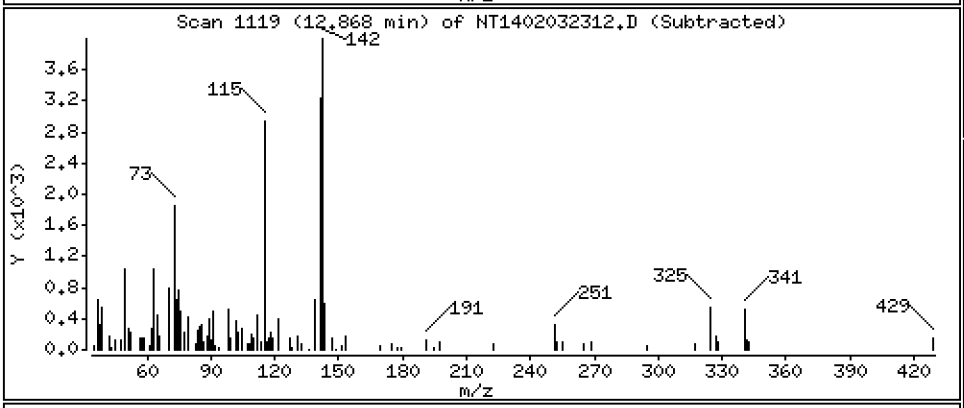
Column diameter: 0.25

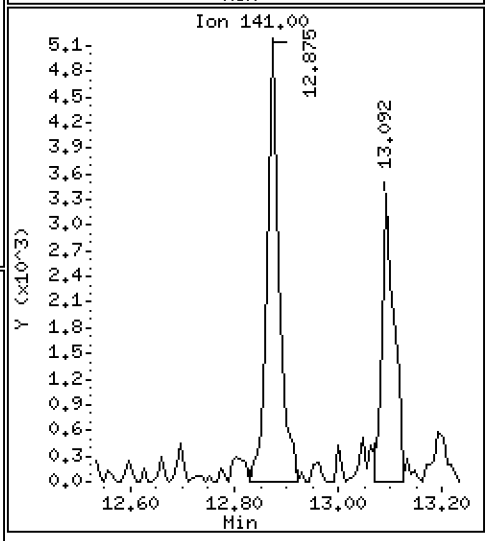
32 2-Methylnaphthalene

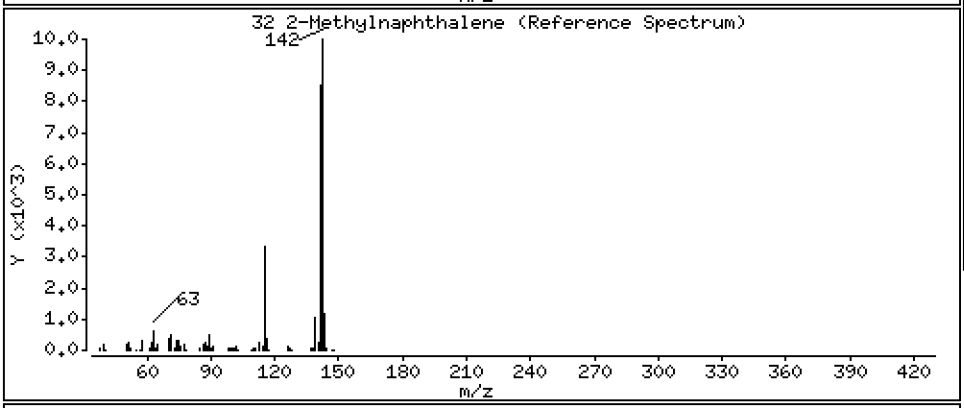
Concentration: 0.1785 ug/mL

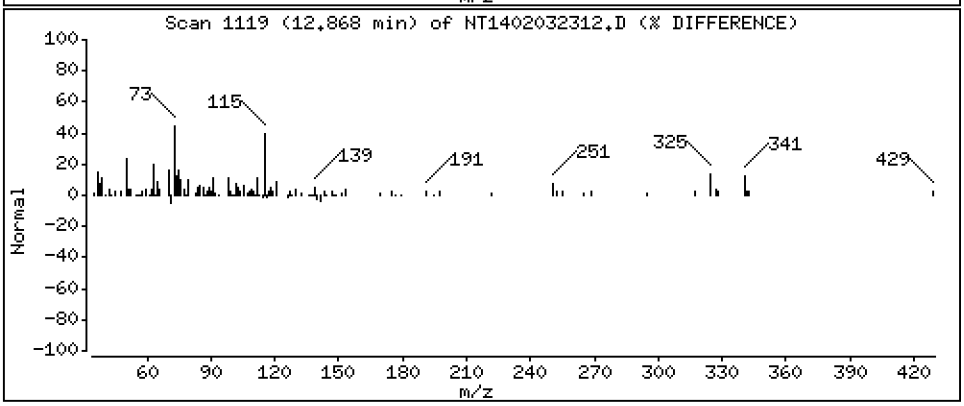












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032312.D

Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

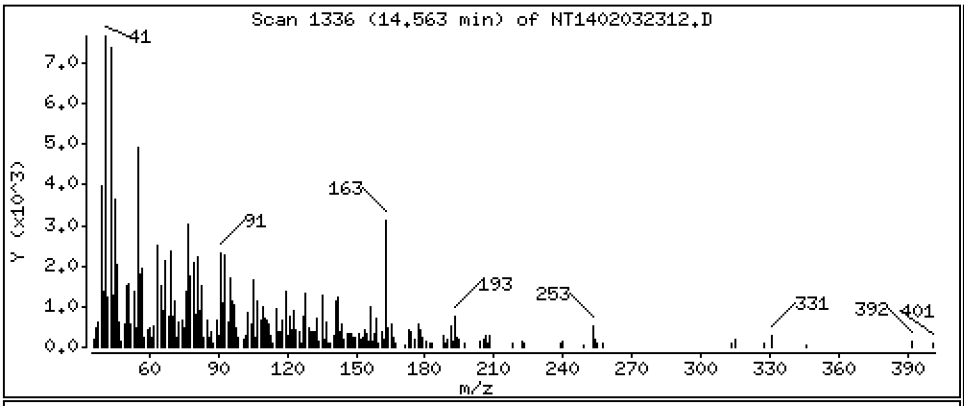
Operator: DSD

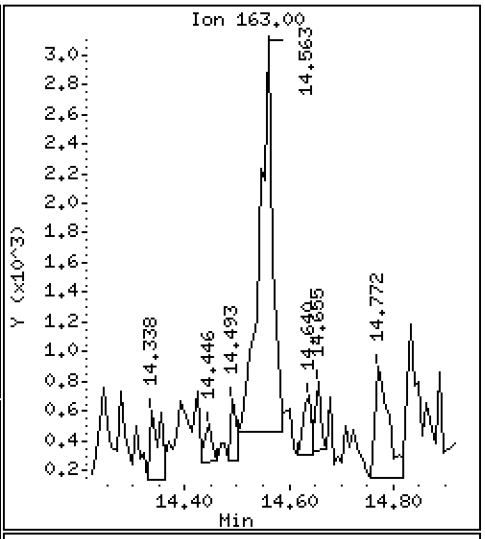
Column phase: ZB-5msi

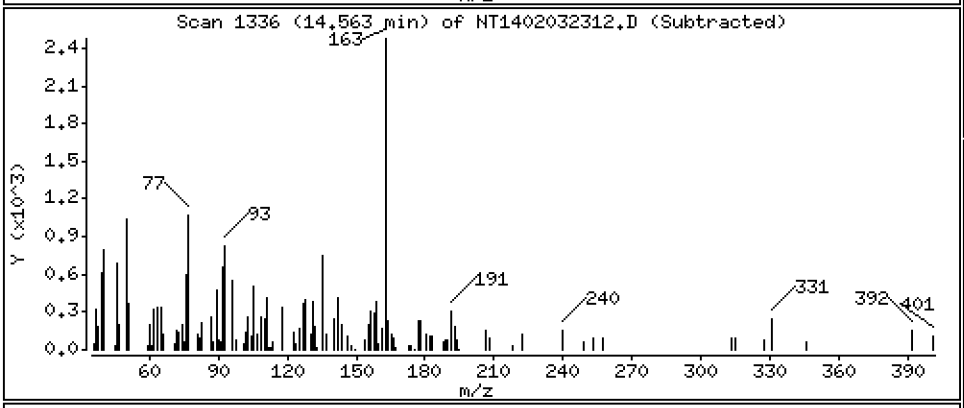
Column diameter: 0.25

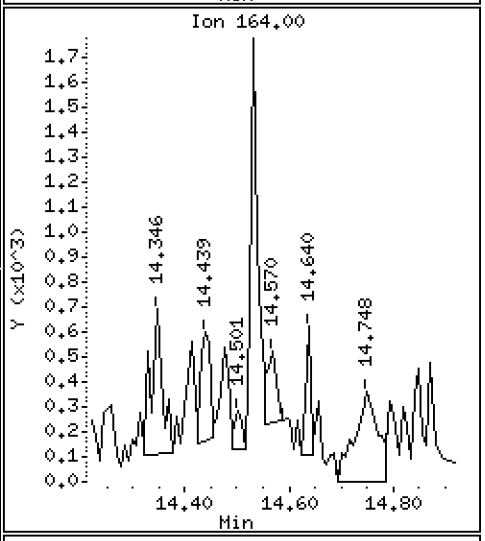
39 Dimethylphthalate

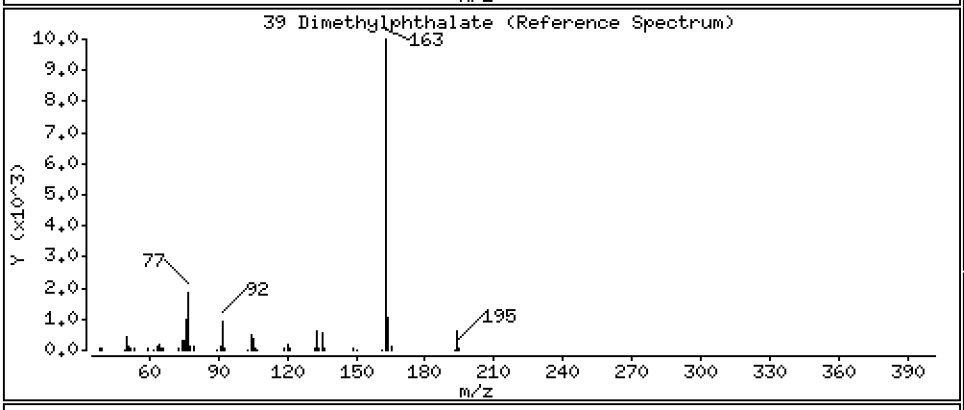
Concentration: 0.09050 ug/mL

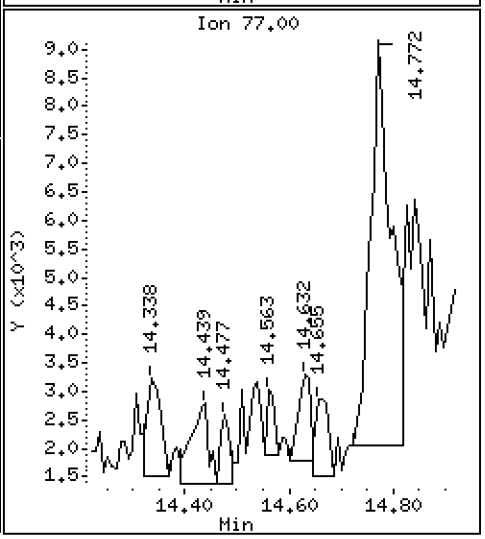


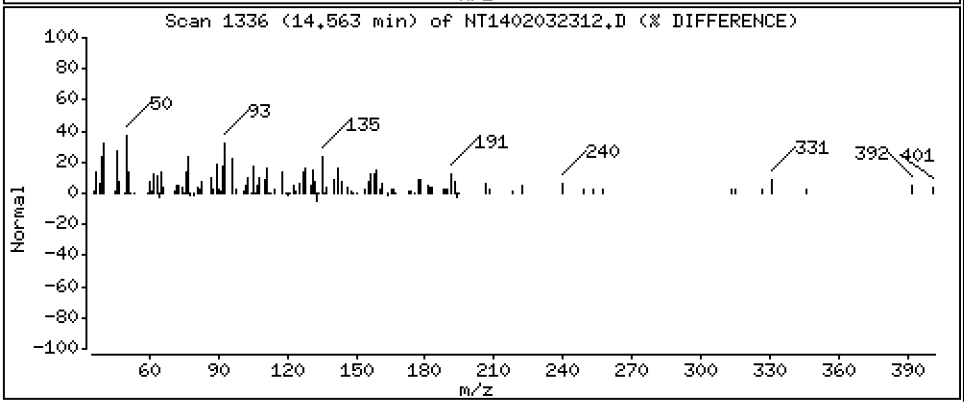












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

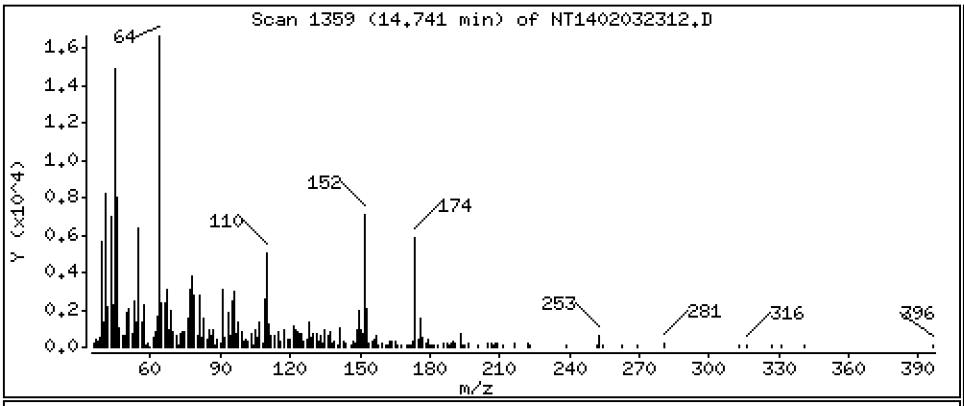
Operator: DSD

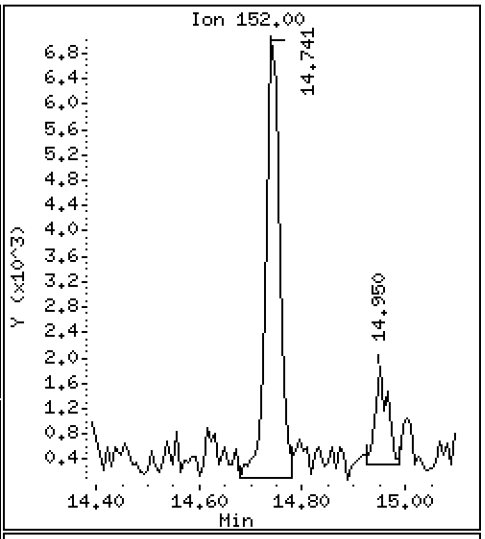
Column phase: ZB-5msi

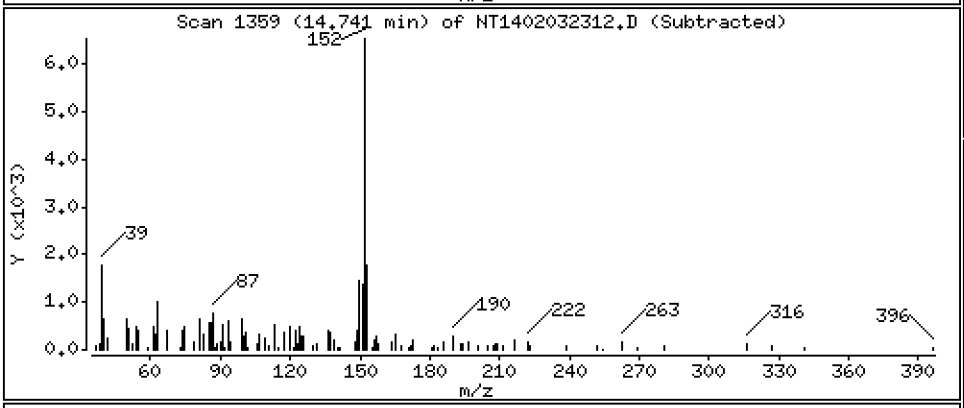
Column diameter: 0.25

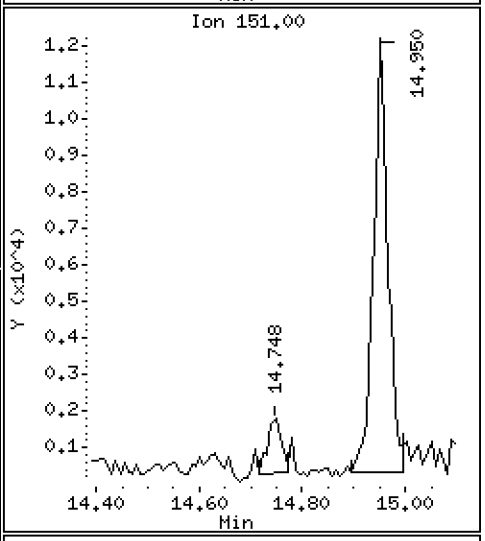
40 Acenaphthylene

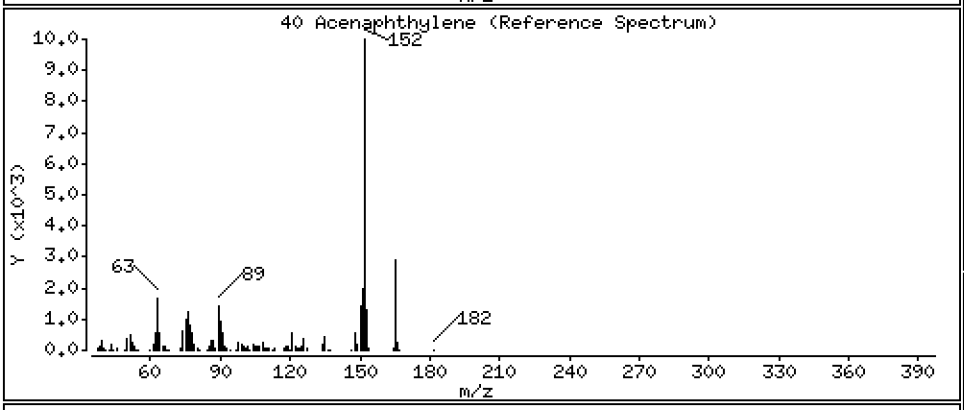
Concentration: 0.1922 ug/mL

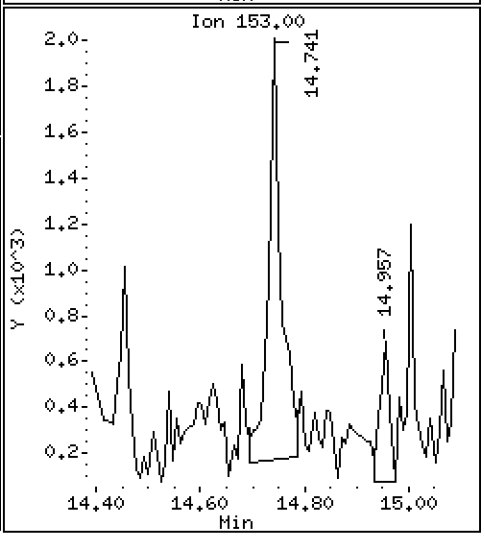


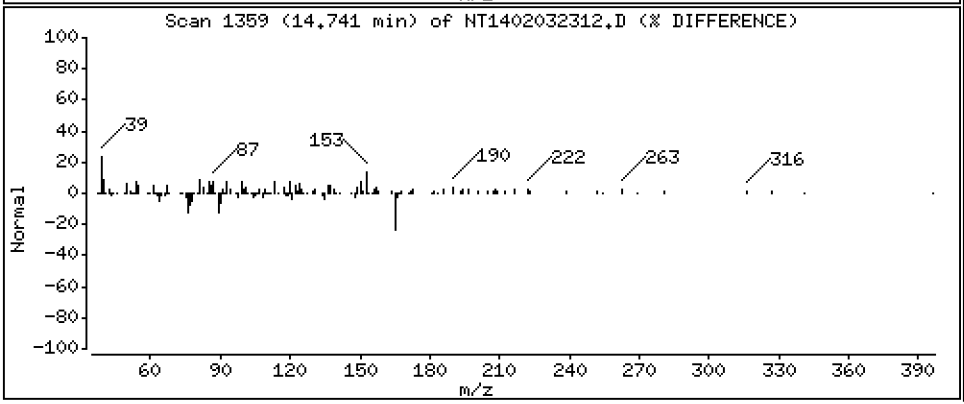












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

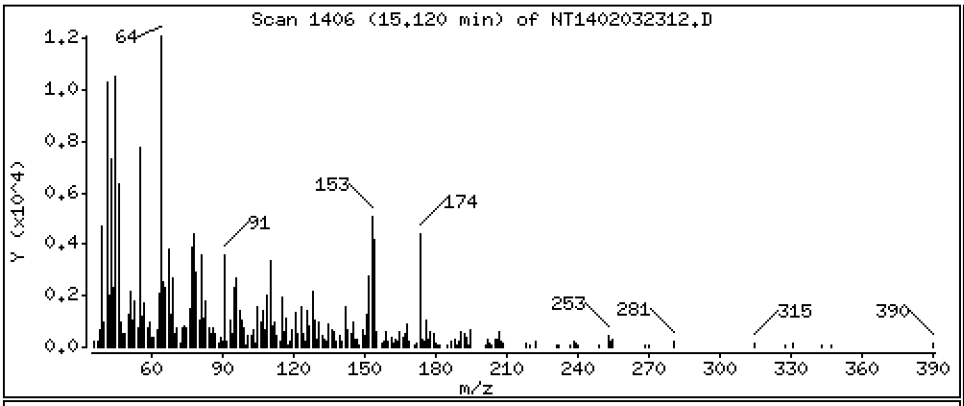
Operator: DSD

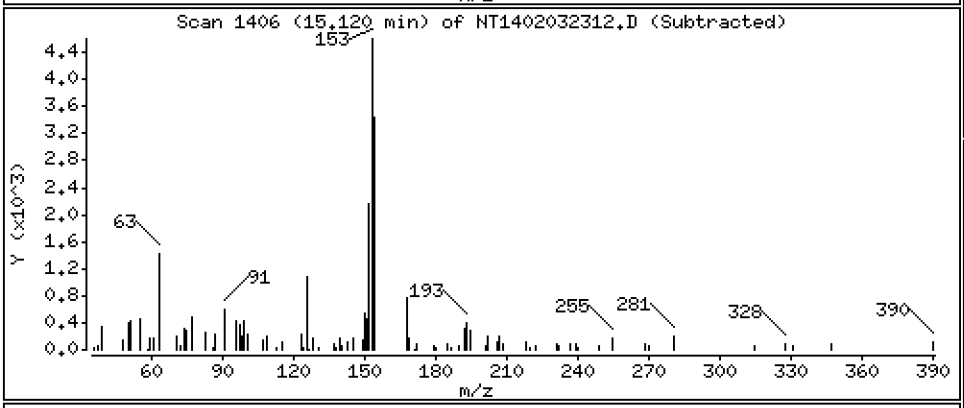
Column phase: ZB-5msi

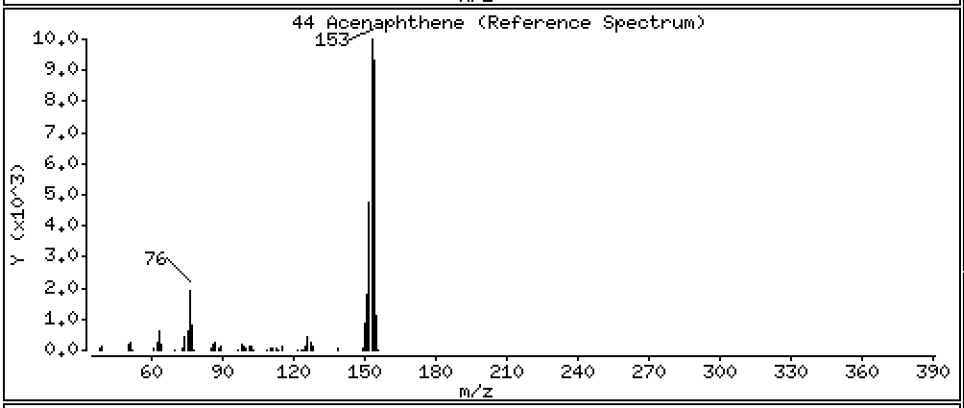
Column diameter: 0.25

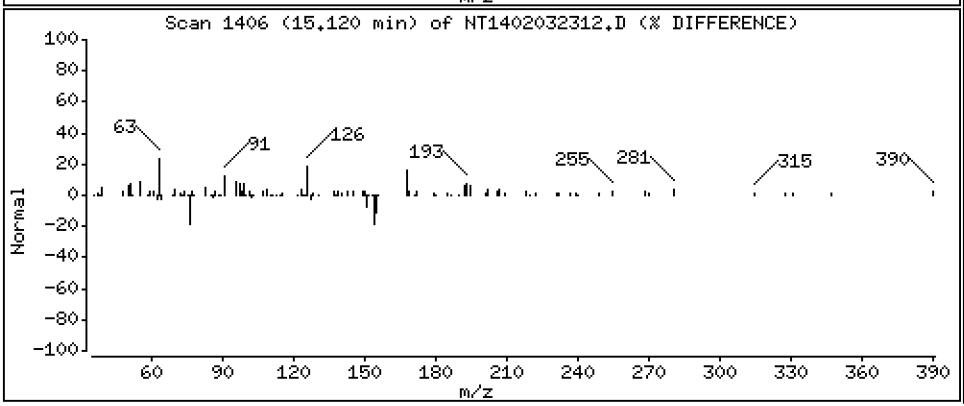
44 Acenaphthene

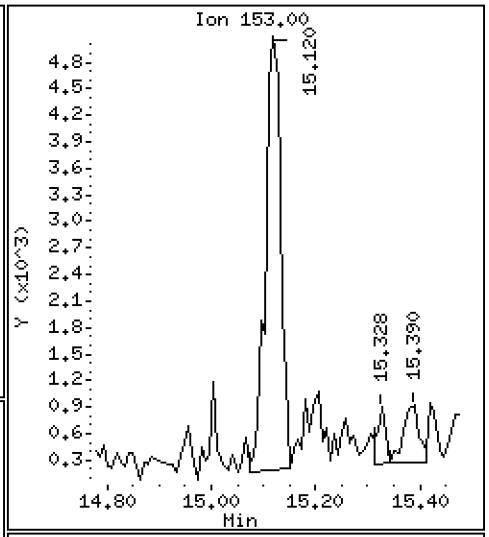
Concentration: 0.2229 ug/mL

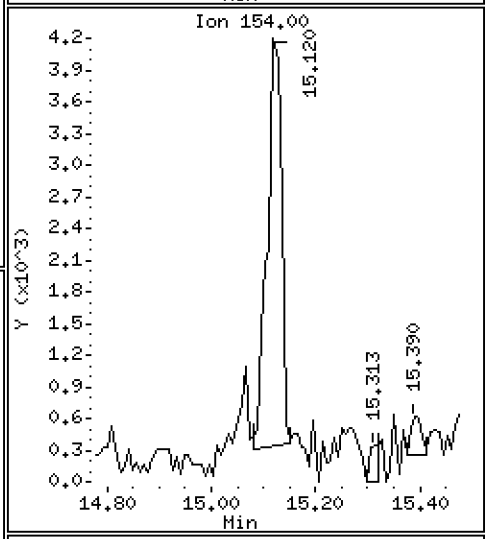


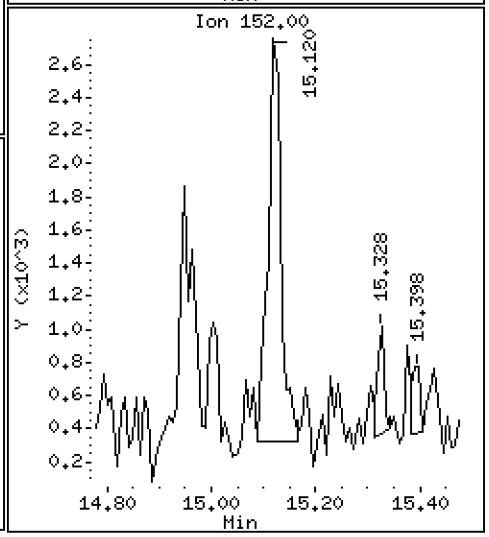












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

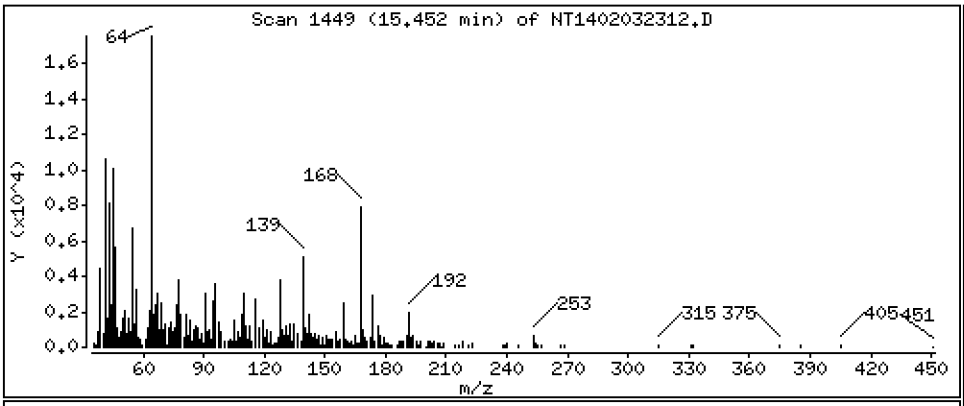
Operator: DSD

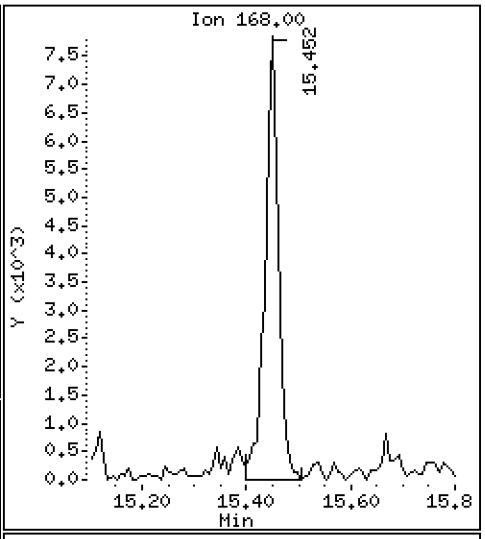
Column phase: ZB-5msi

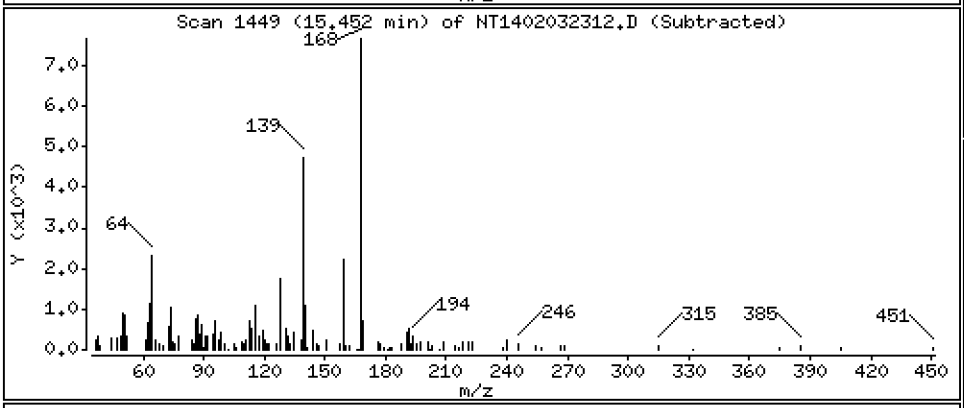
Column diameter: 0.25

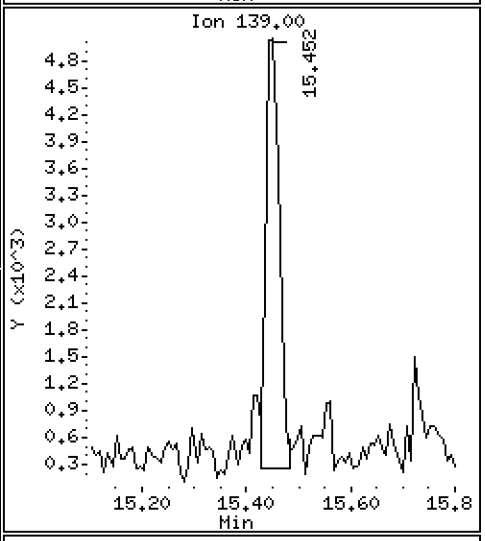
46 Dibenzofuran

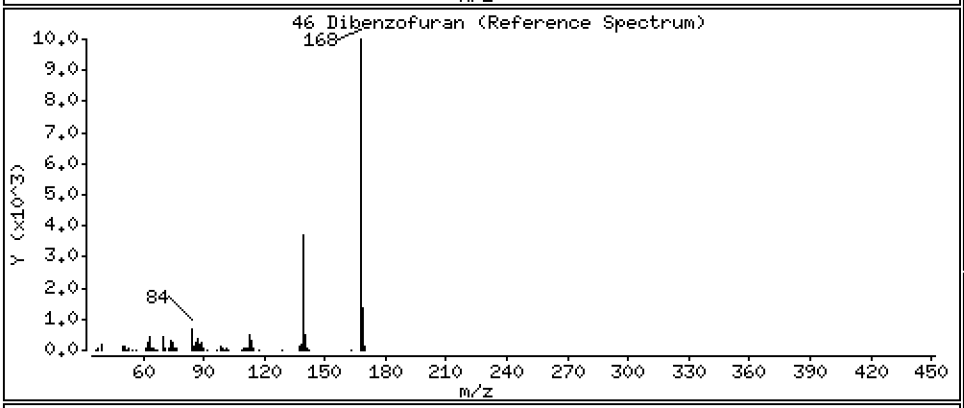
Concentration: 0.2186 ug/mL

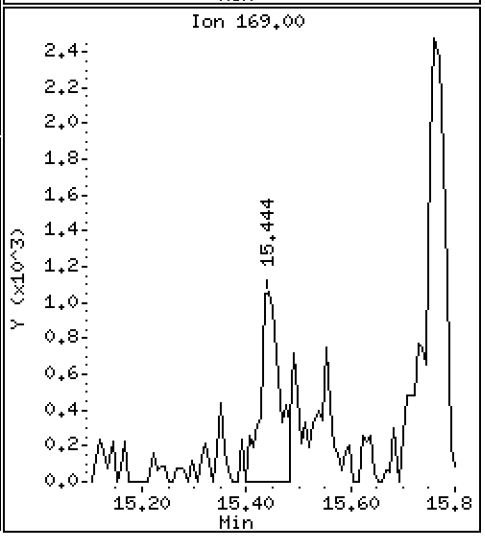


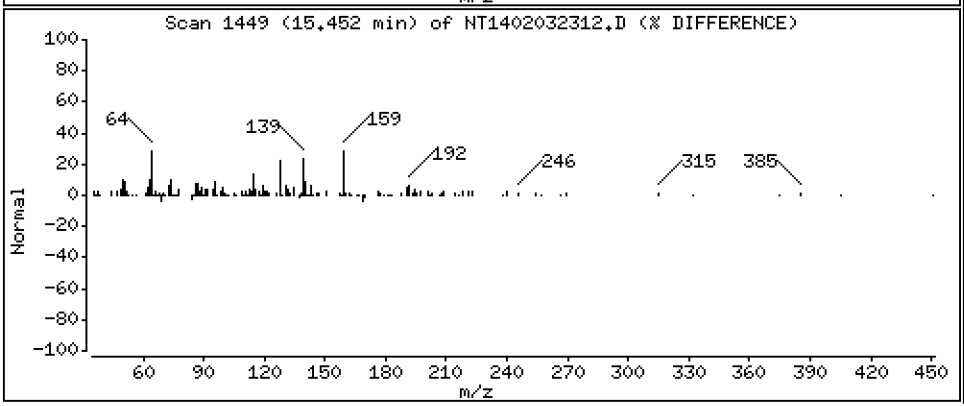












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

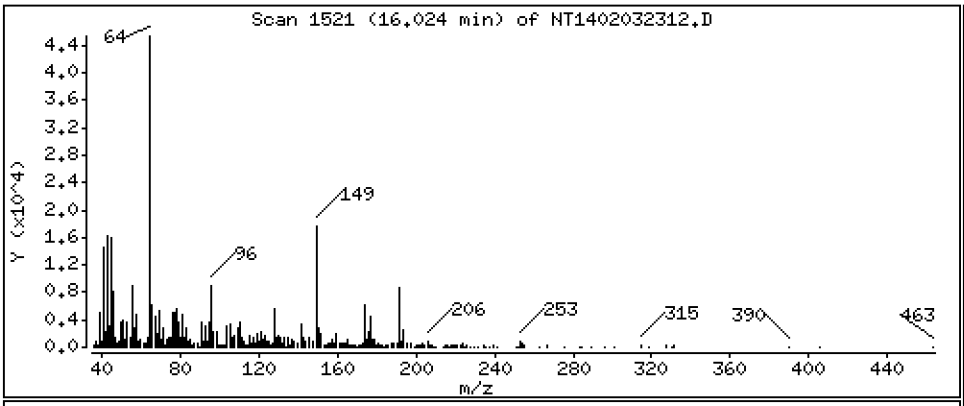
Operator: DSD

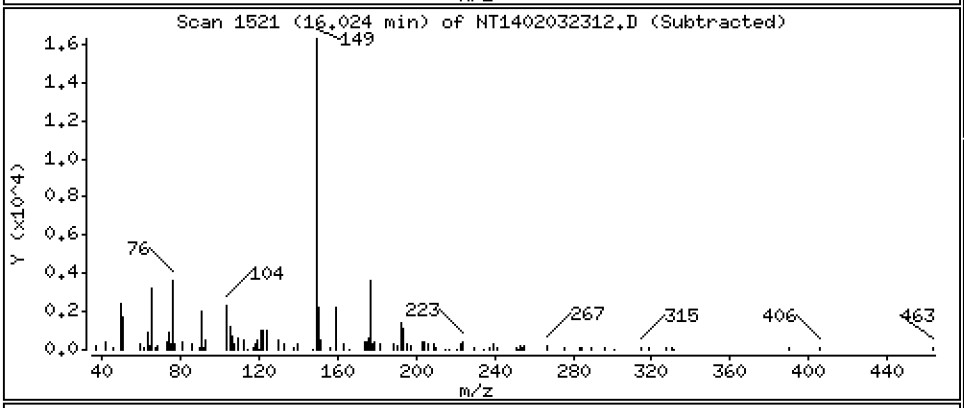
Column phase: ZB-5msi

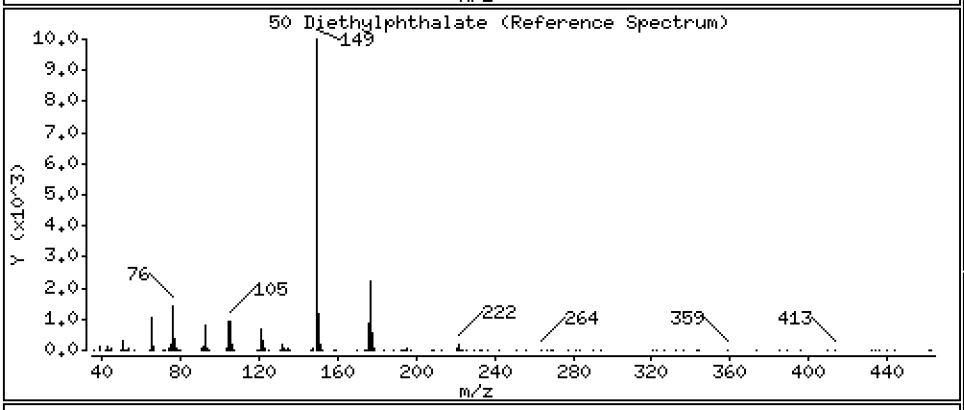
Column diameter: 0.25

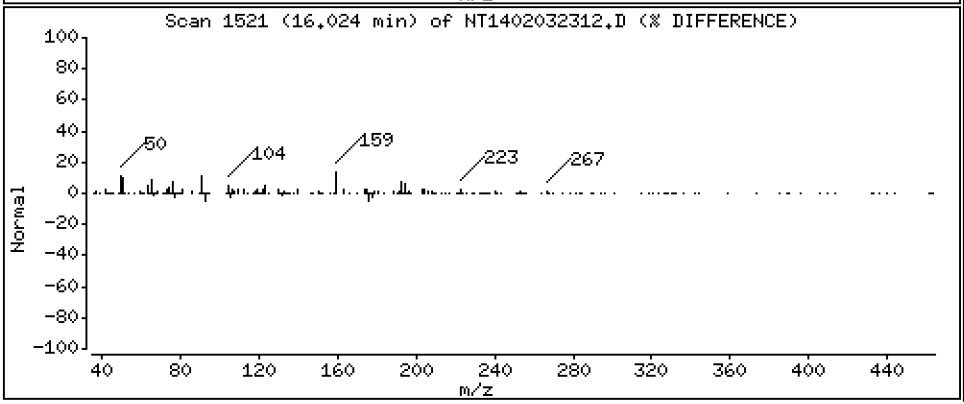
50 Diethylphthalate

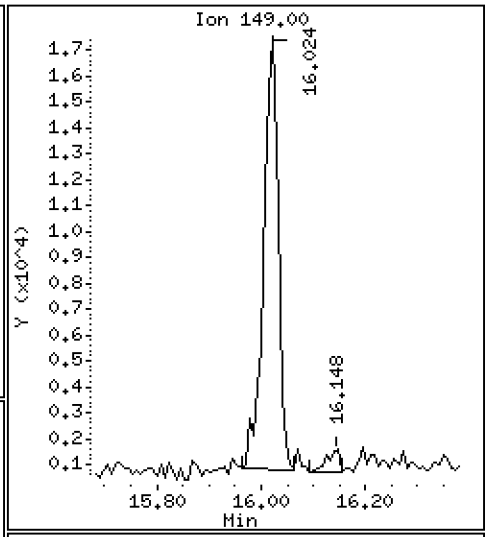
Concentration: 0.4139 ug/mL

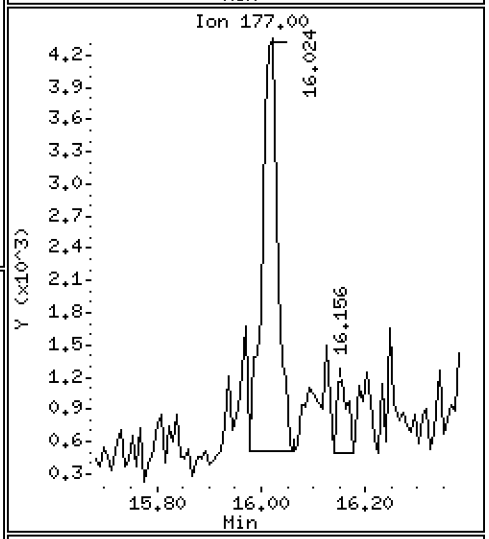


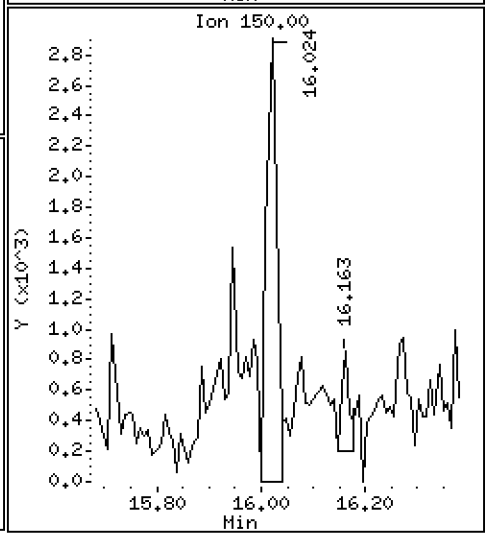












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

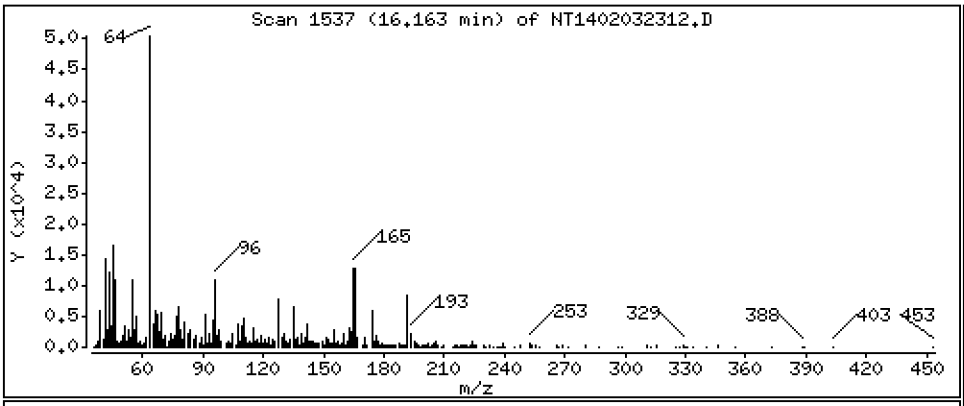
Operator: DSD

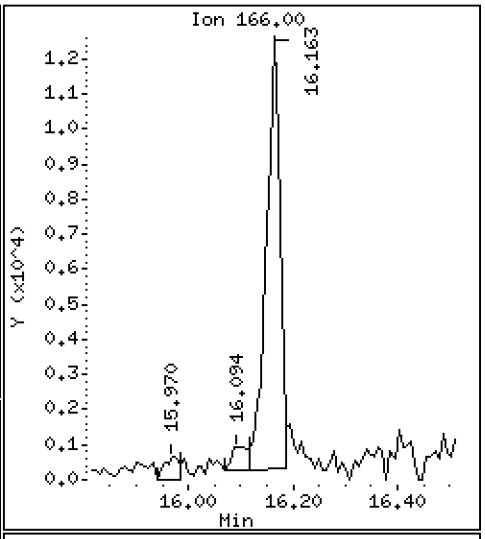
Column phase: ZB-5msi

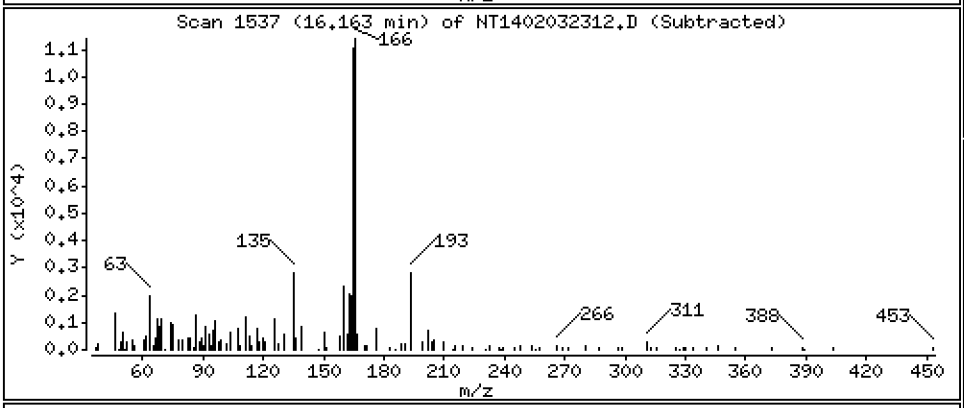
Column diameter: 0.25

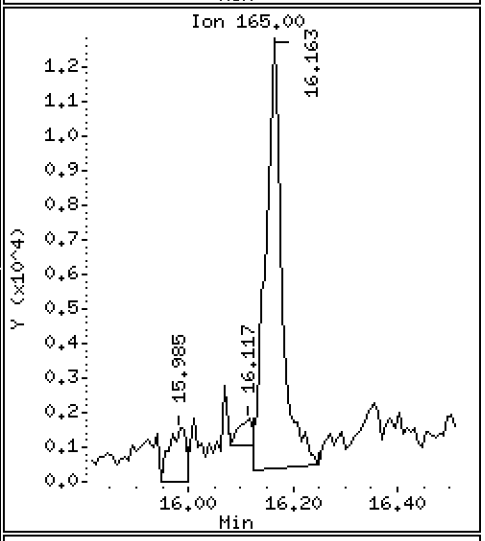
49 Fluorene

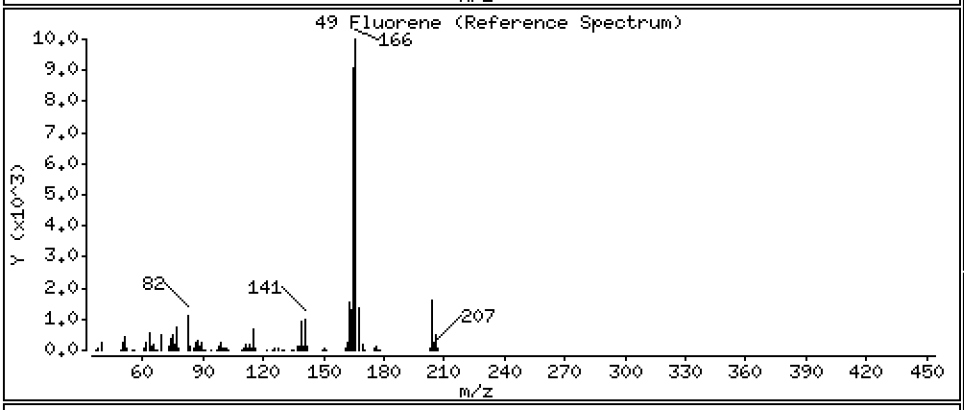
Concentration: 0.2934 ug/mL

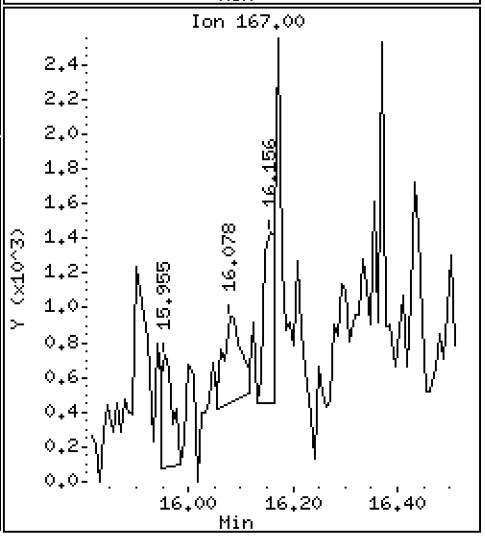


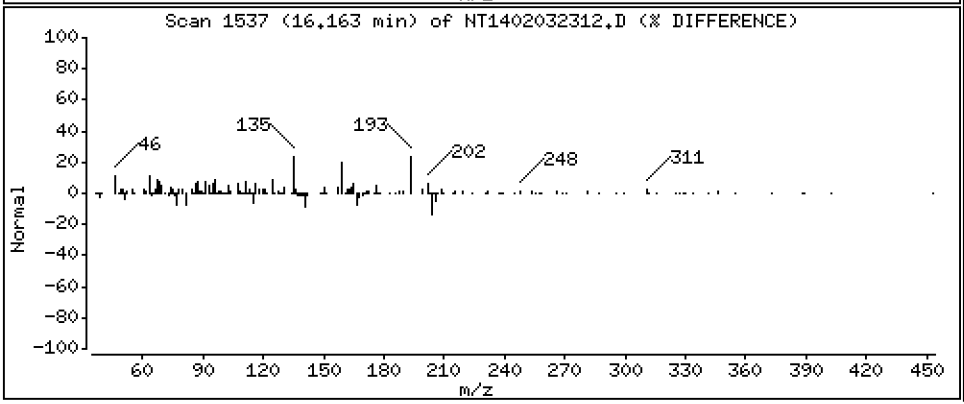












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

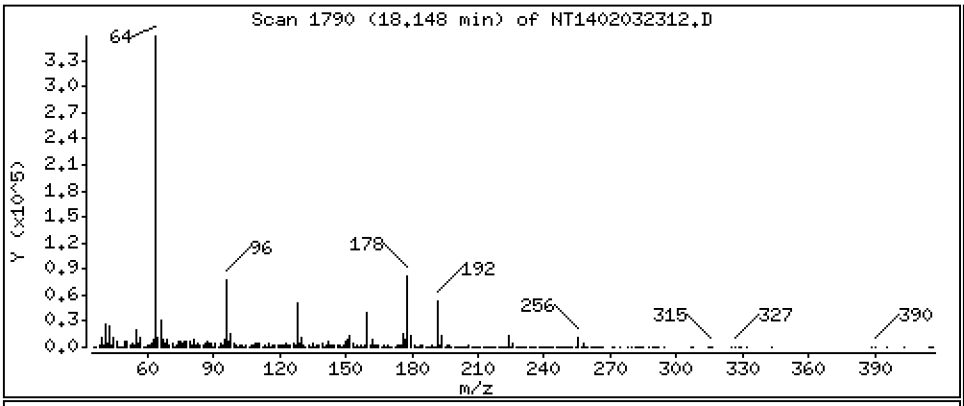
Operator: DSD

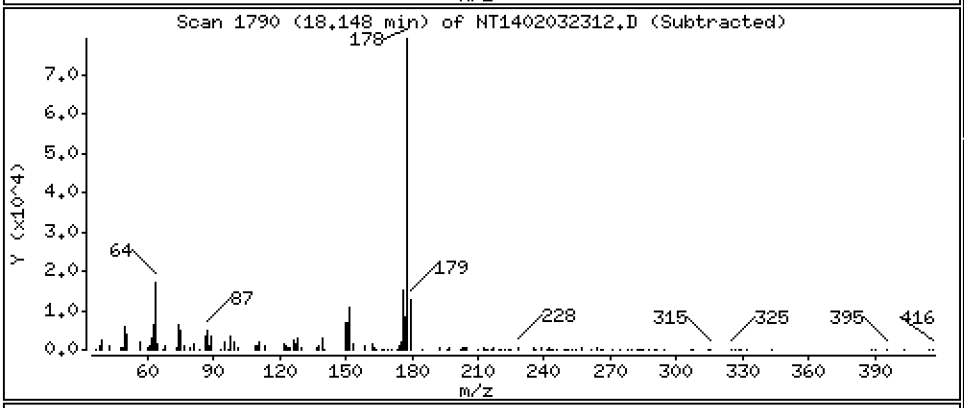
Column phase: ZB-5msi

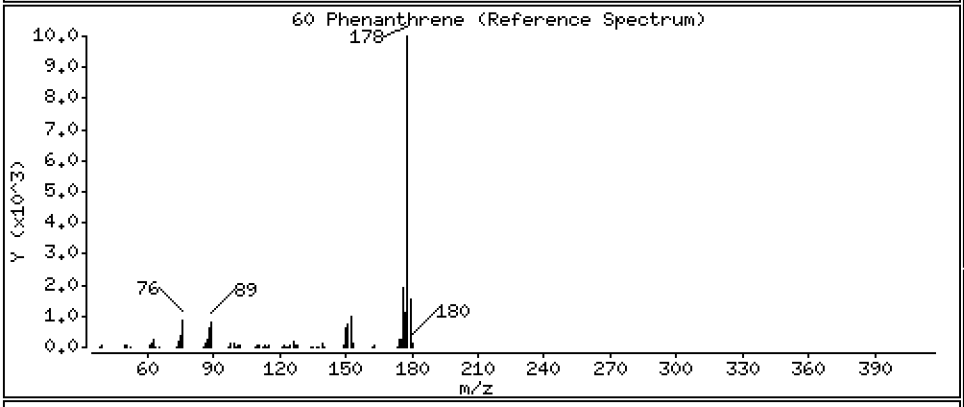
Column diameter: 0.25

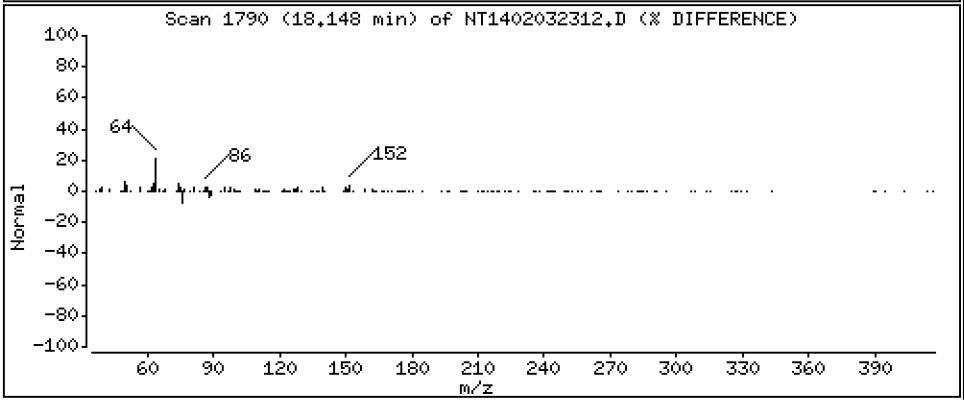
60 Phenanthrene

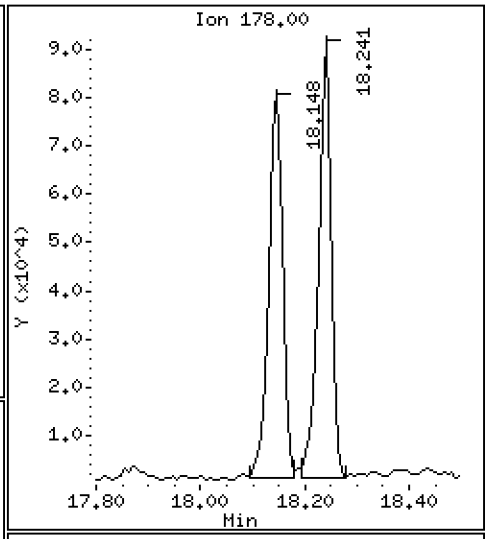
Concentration: 1.905 ug/mL

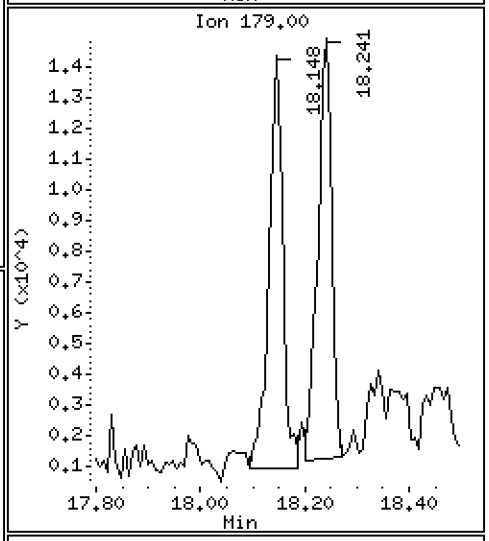


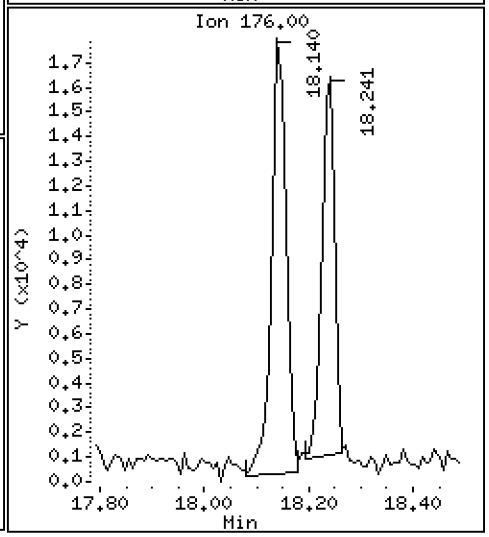












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

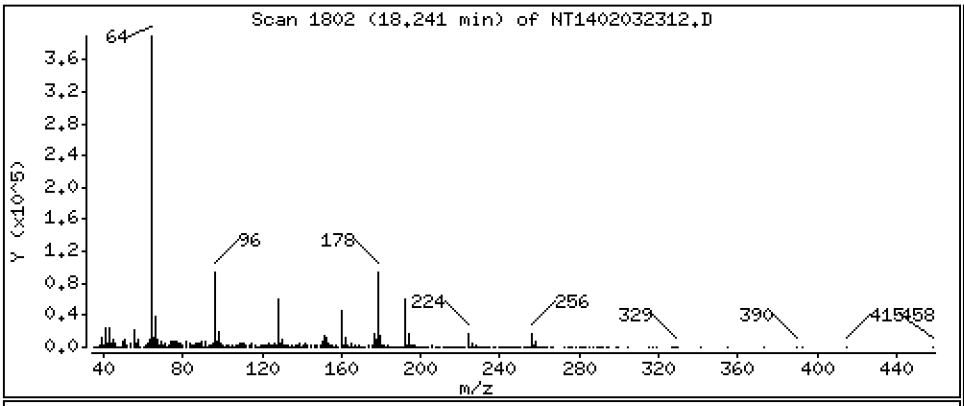
Operator: DSD

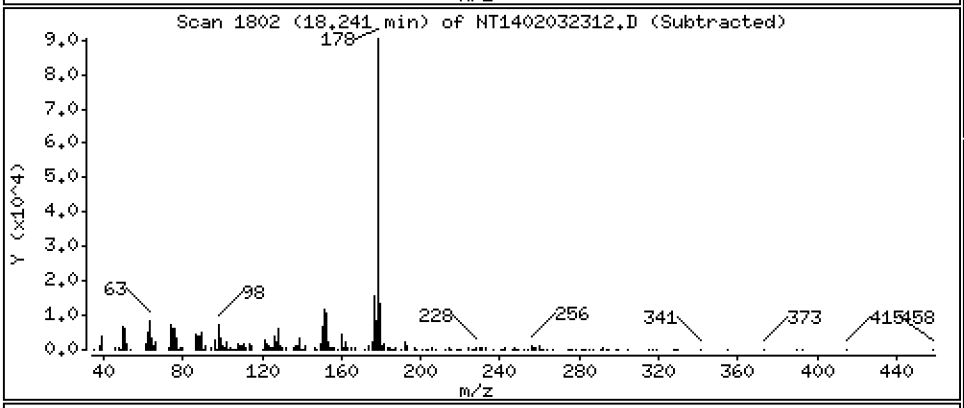
Column phase: ZB-5msi

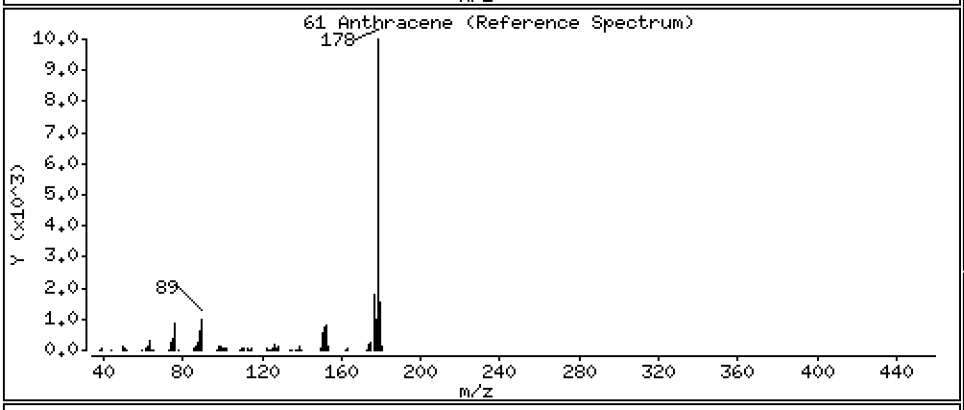
Column diameter: 0.25

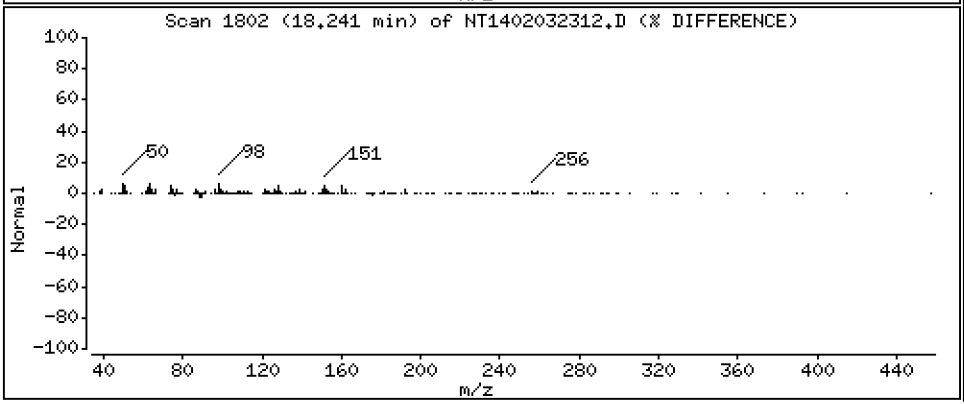
61 Anthracene

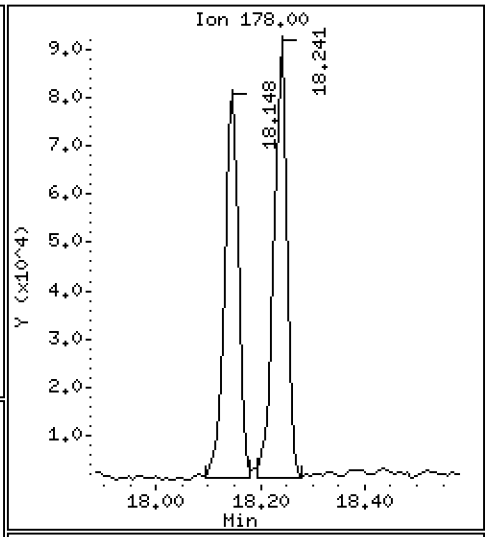
Concentration: 2.161 ug/mL

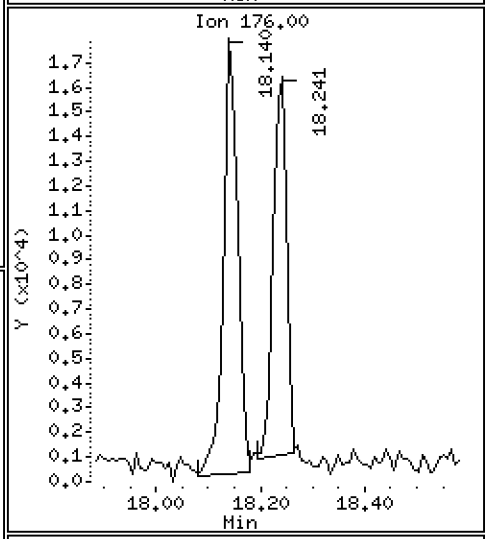


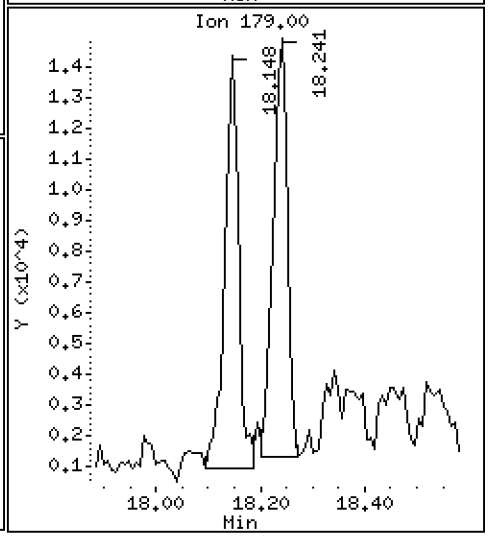












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

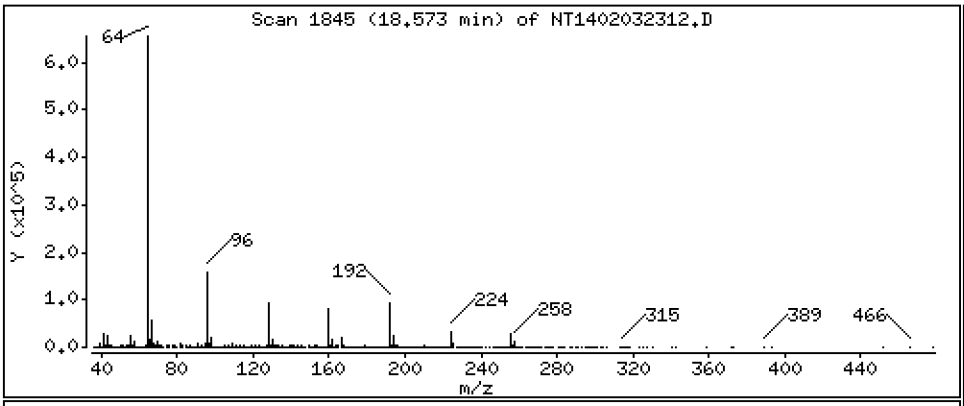
Operator: DSD

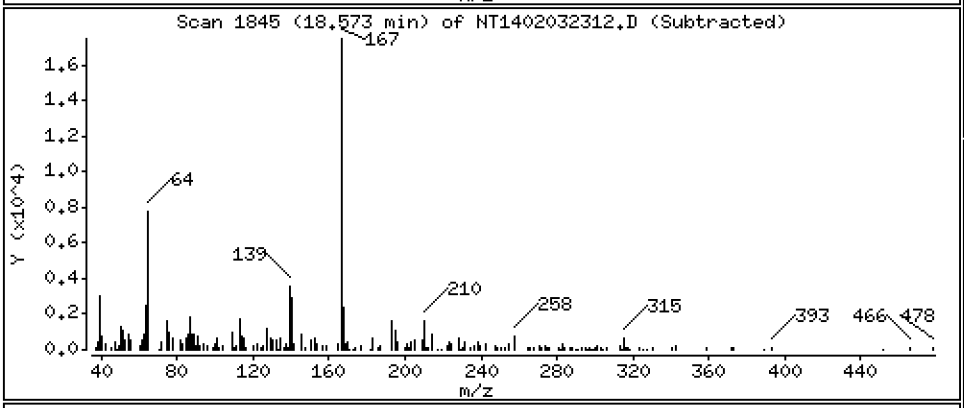
Column phase: ZB-5msi

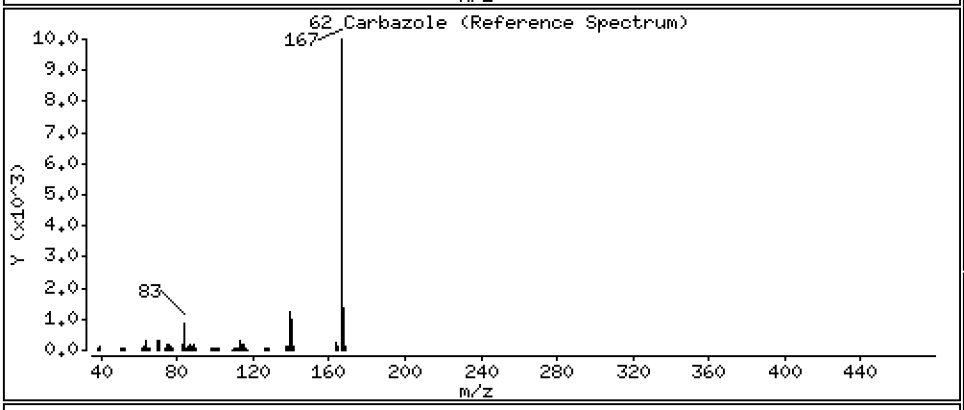
Column diameter: 0.25

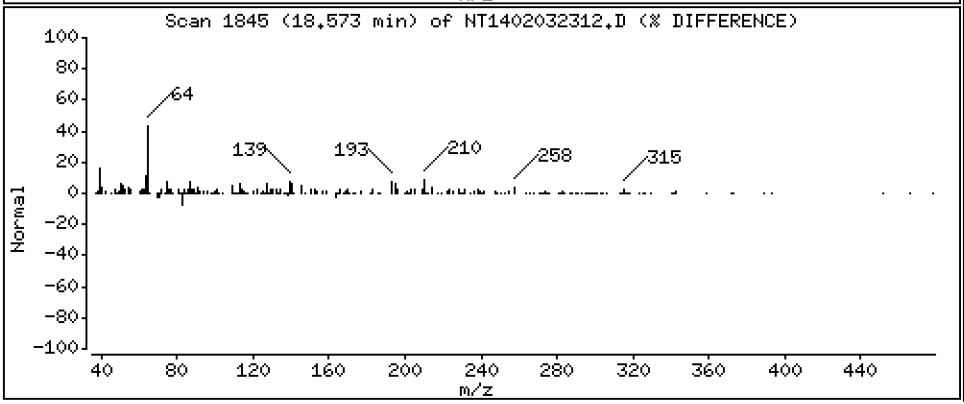
62 Carbazole

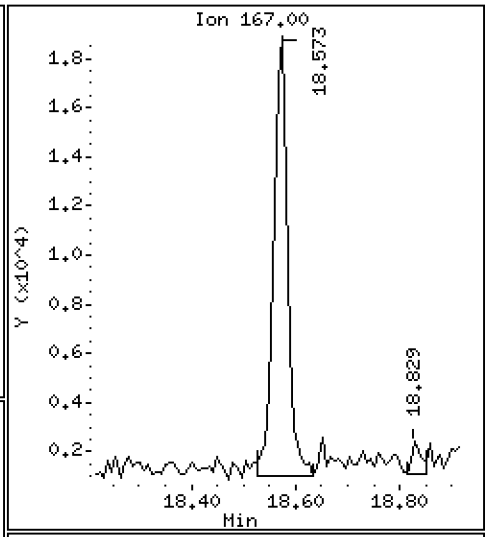
Concentration: 0.5032 ug/mL

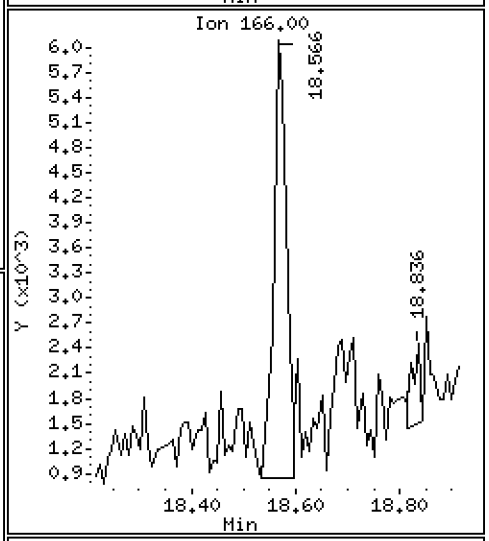


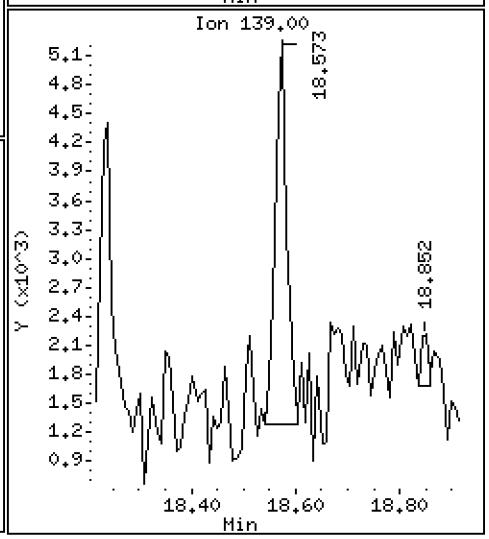












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

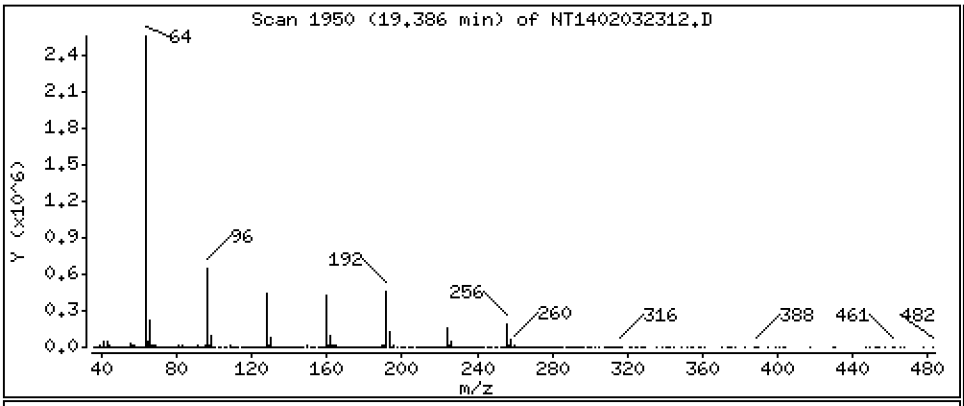
Operator: DSD

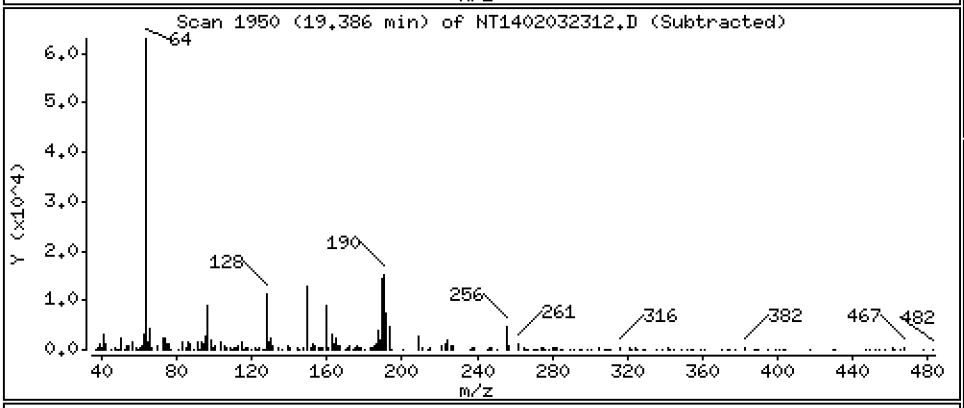
Column phase: ZB-5msi

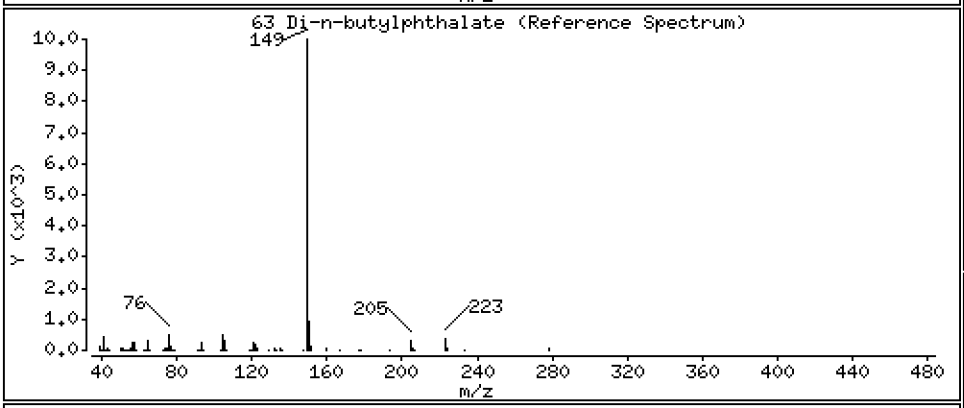
Column diameter: 0.25

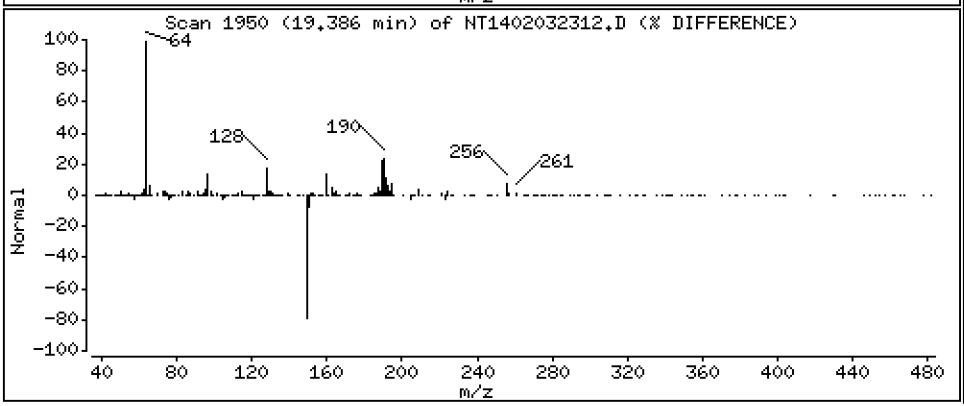
63 Di-n-butylphthalate

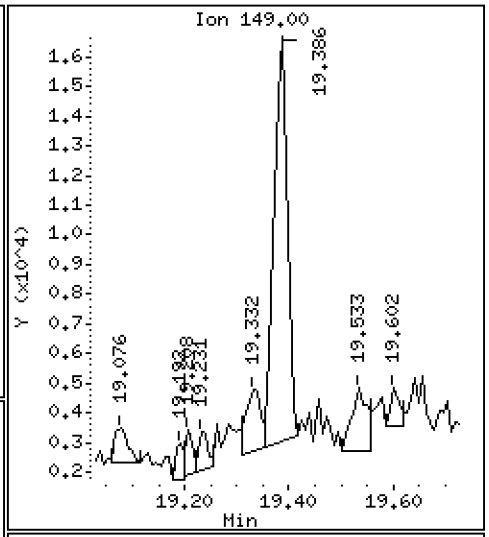
Concentration: 0.2345 ug/mL

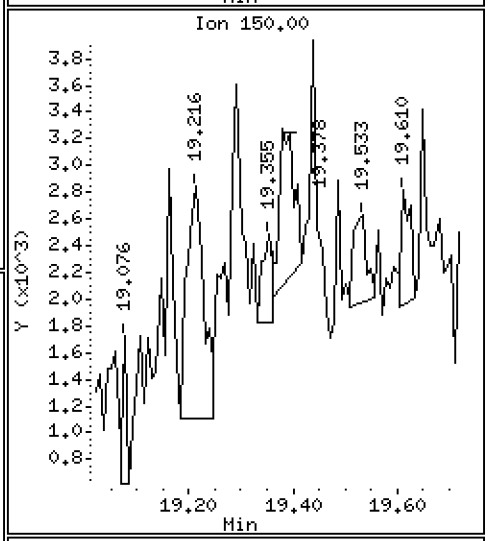


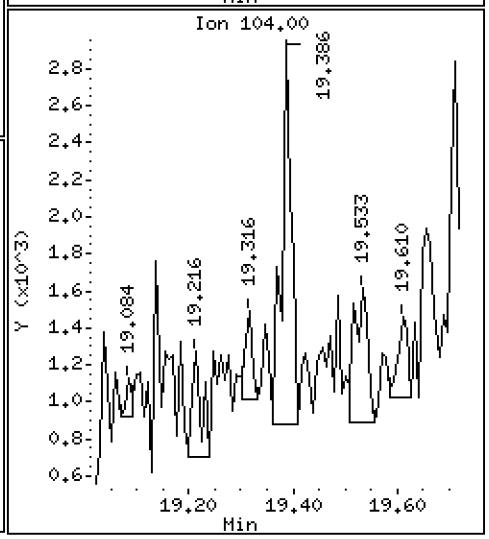












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

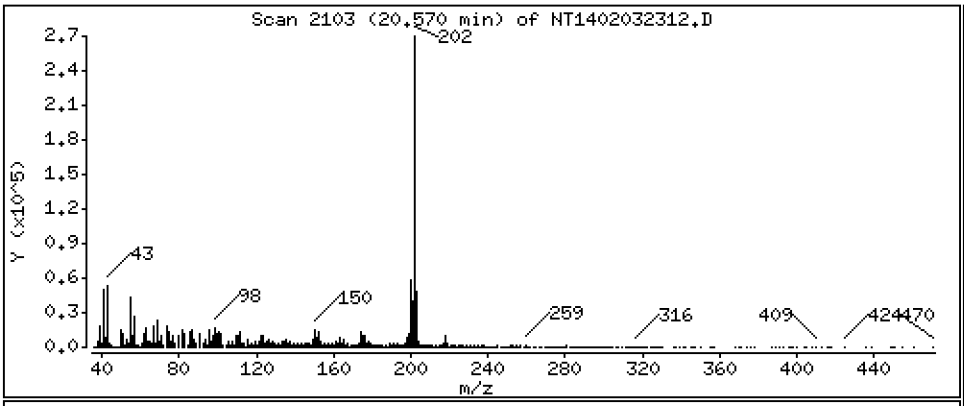
Operator: DSD

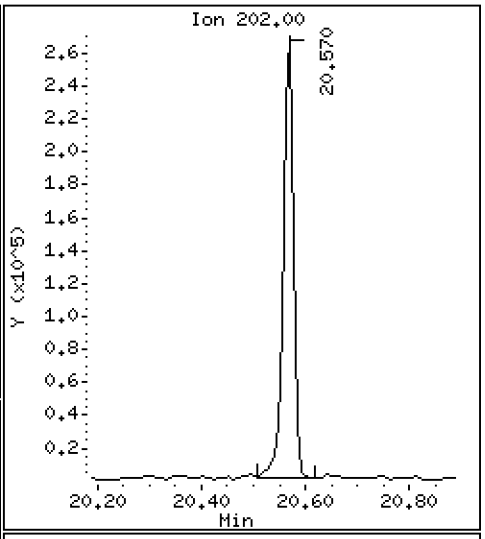
Column phase: ZB-5msi

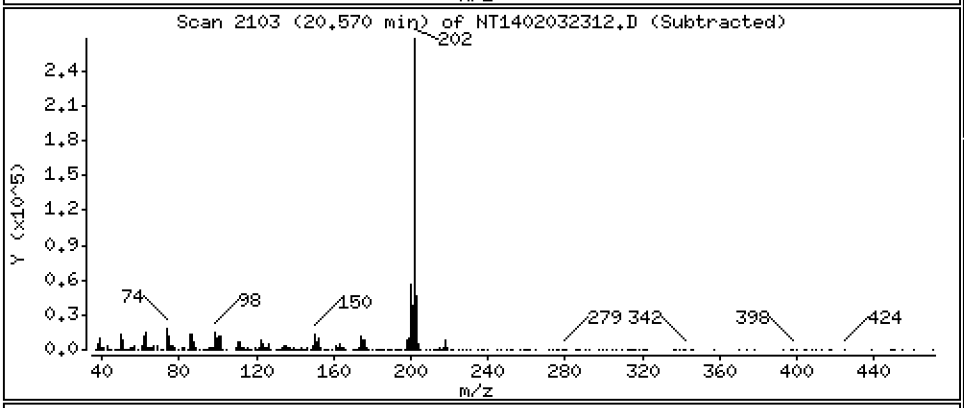
Column diameter: 0.25

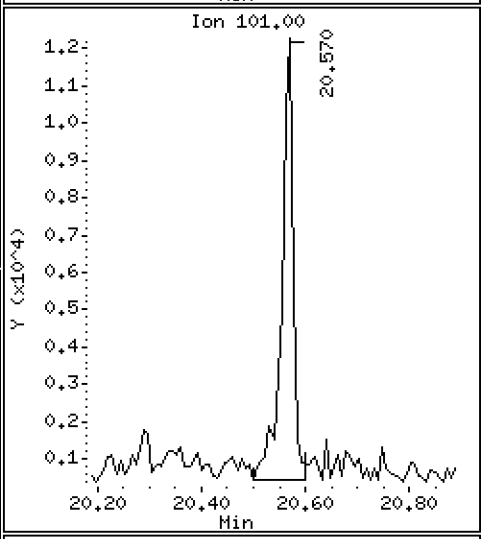
64 Fluoranthene

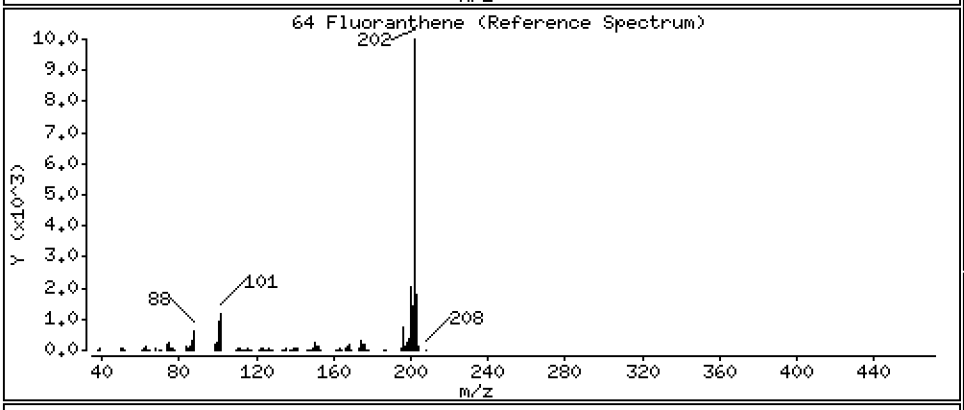
Concentration: 8.249 ug/mL

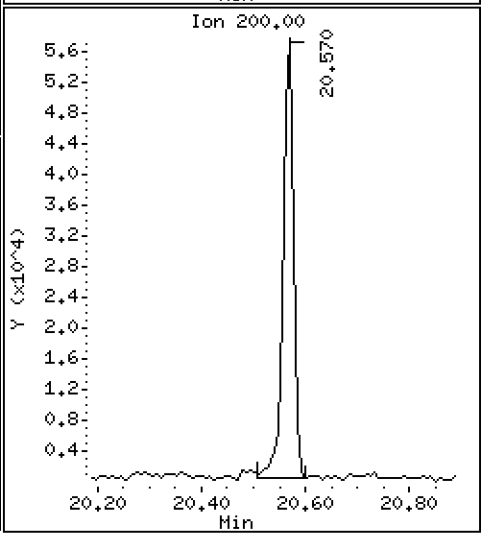


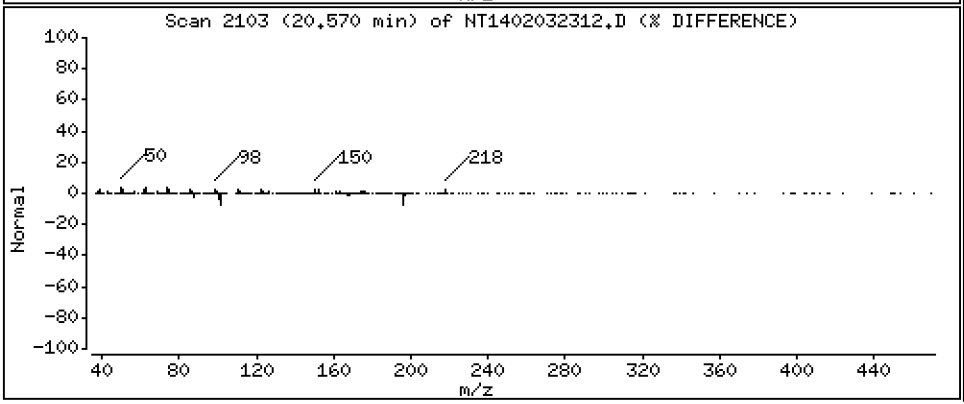












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

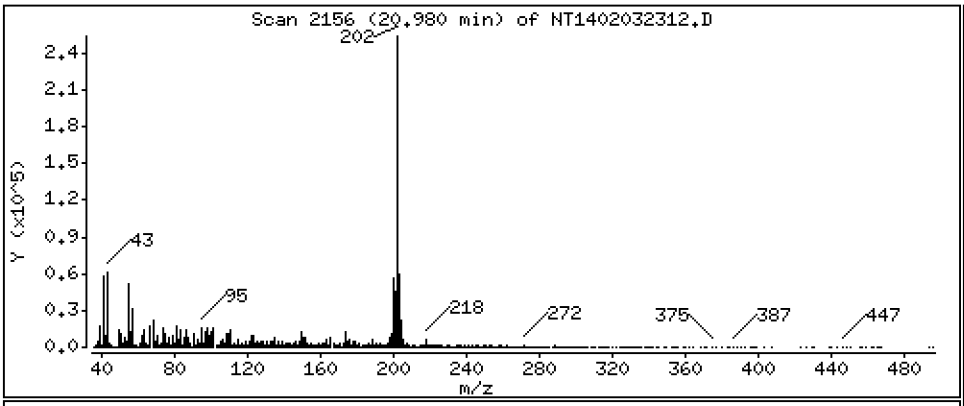
Operator: DSD

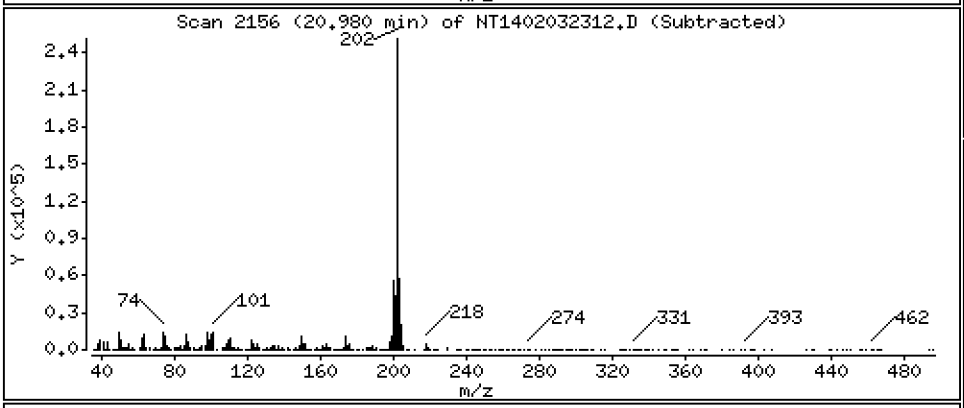
Column phase: ZB-5msi

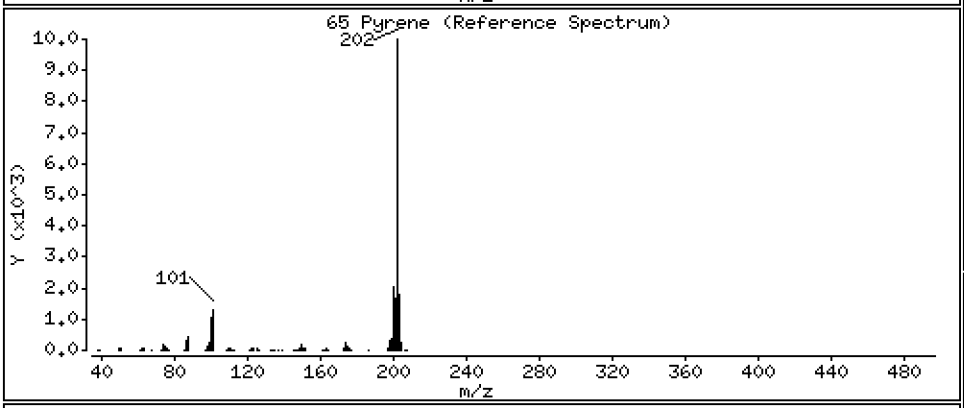
Column diameter: 0.25

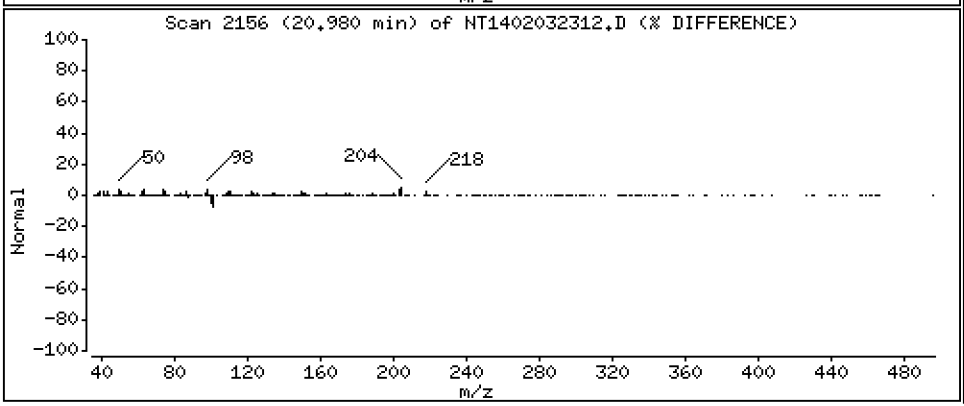
65 Pyrene

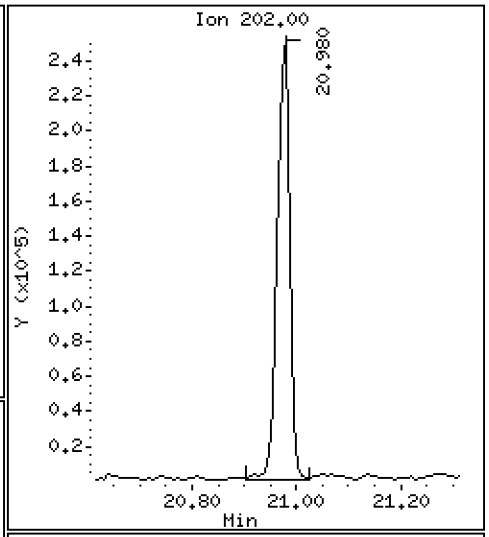
Concentration: 8.596 ug/mL

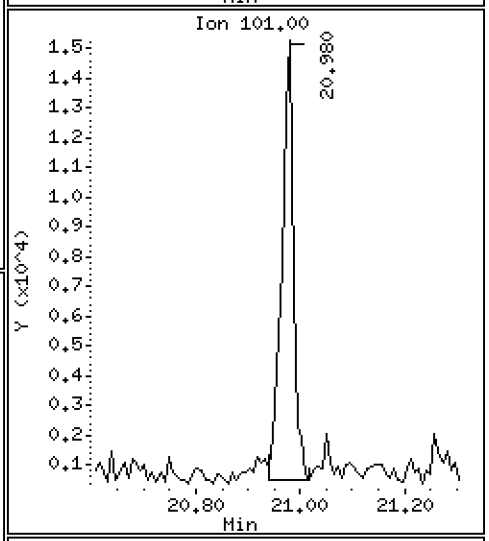


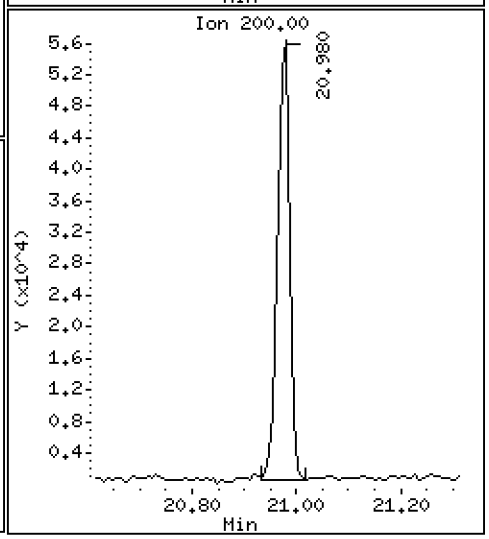












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032312.D

Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

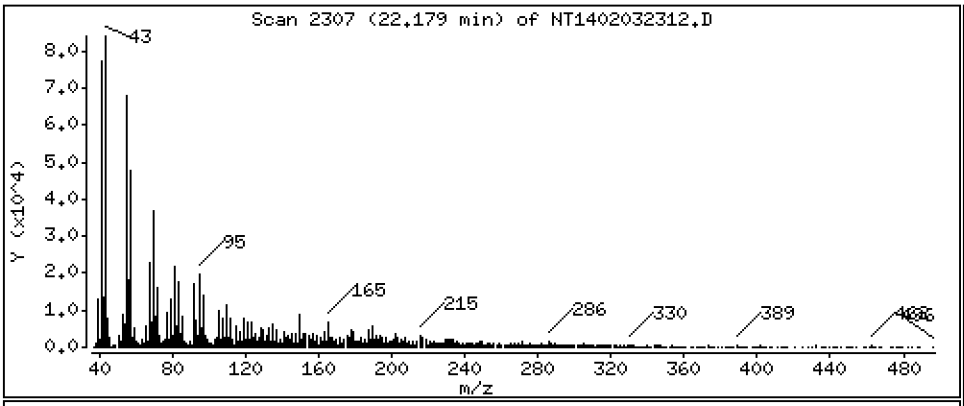
Operator: DSD

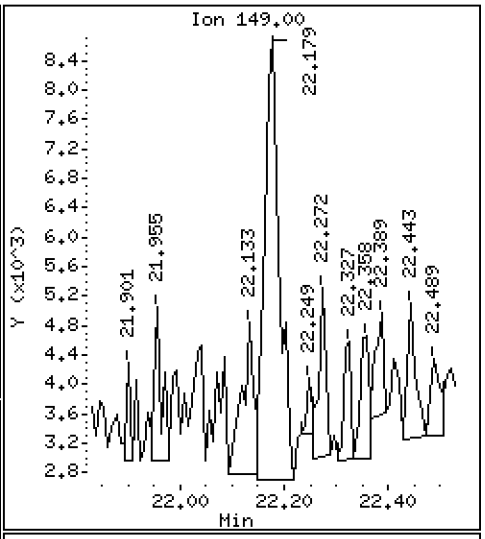
Column phase: ZB-5msi

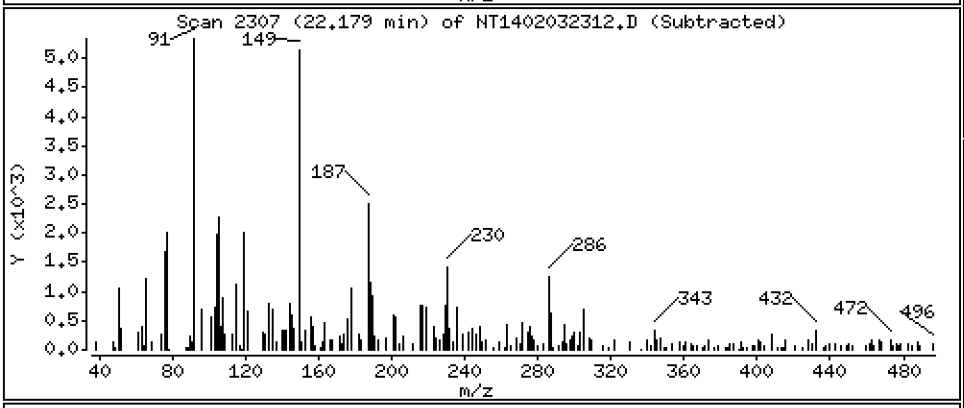
Column diameter: 0.25

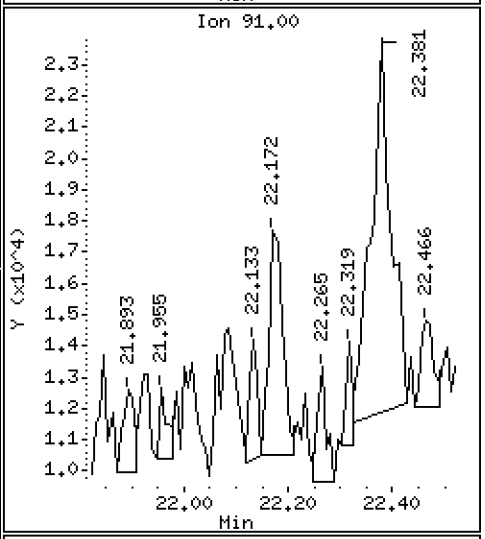
67 Butylbenzylphthalate

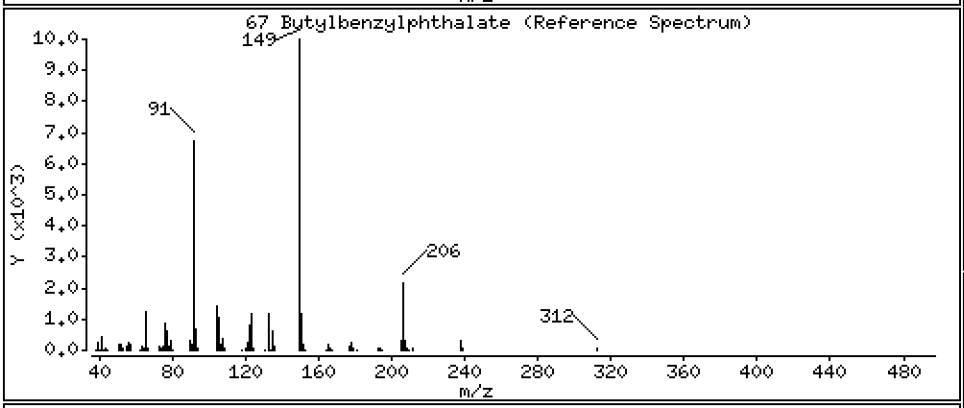
Concentration: 0.5079 ug/mL

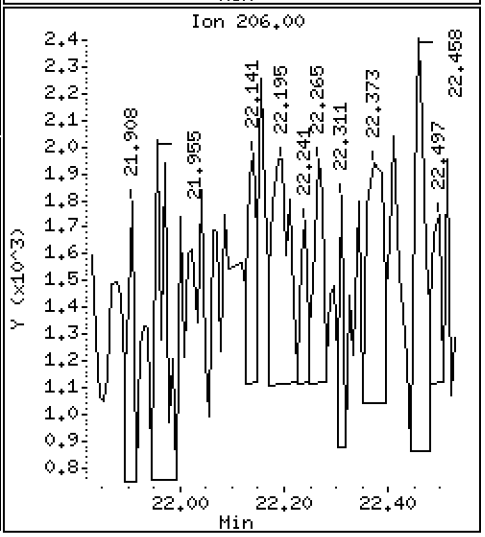


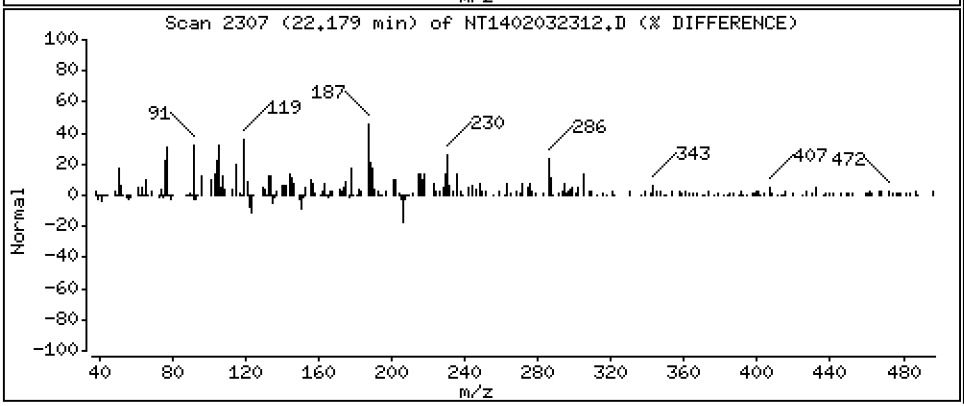












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

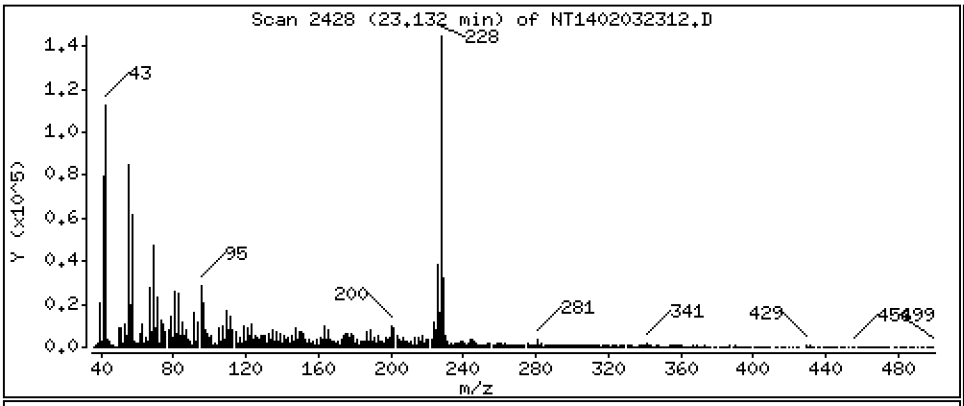
Operator: DSD

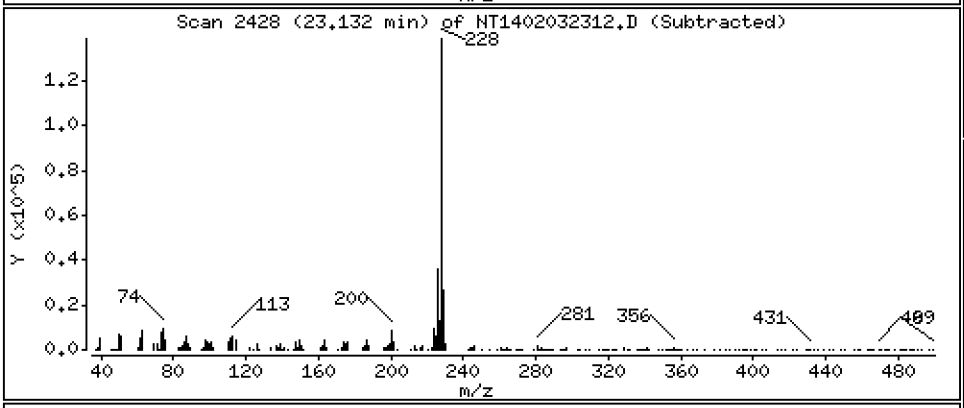
Column phase: ZB-5msi

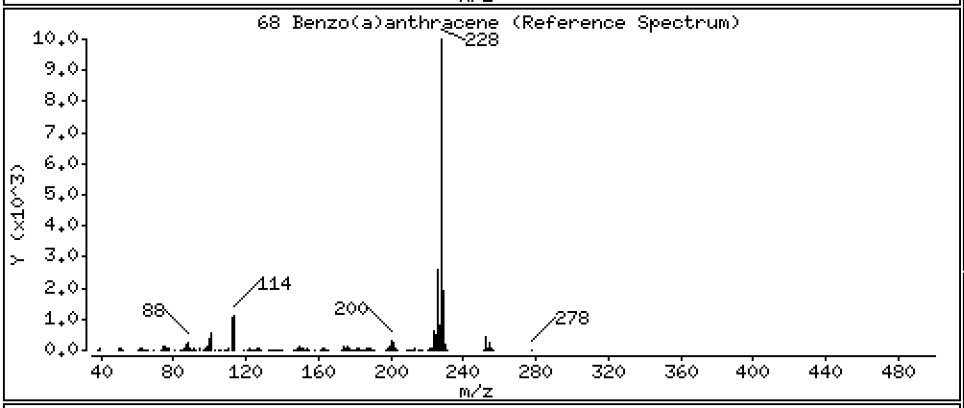
Column diameter: 0.25

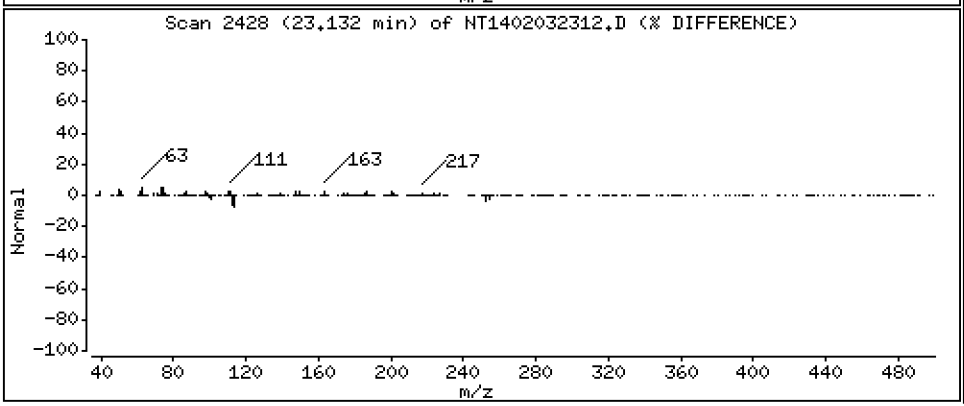
68 Benzo(a)anthracene

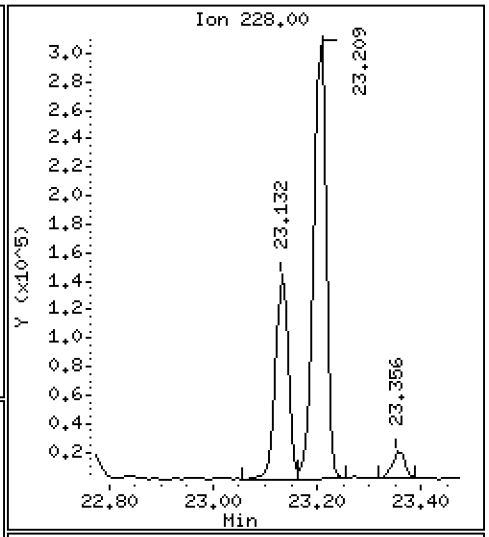
Concentration: 5.742 ug/mL

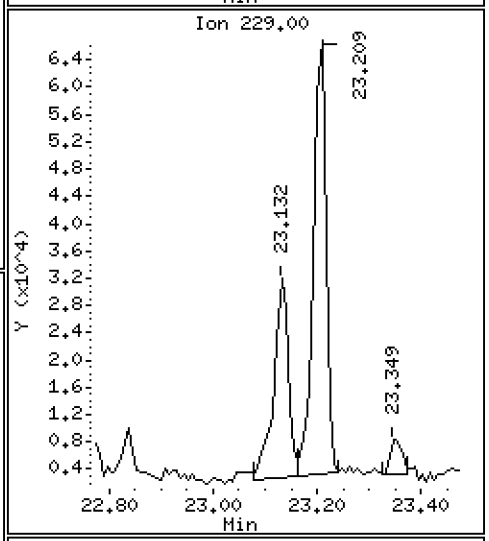


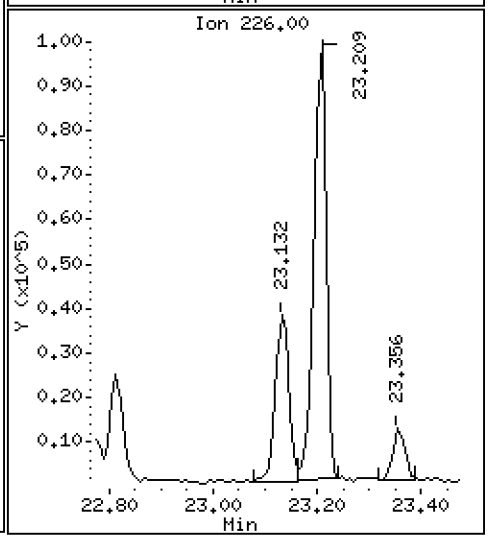












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

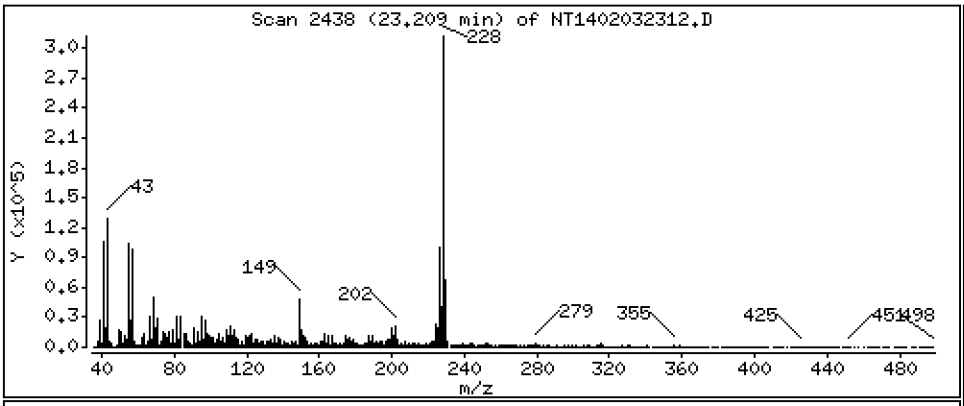
Operator: DSD

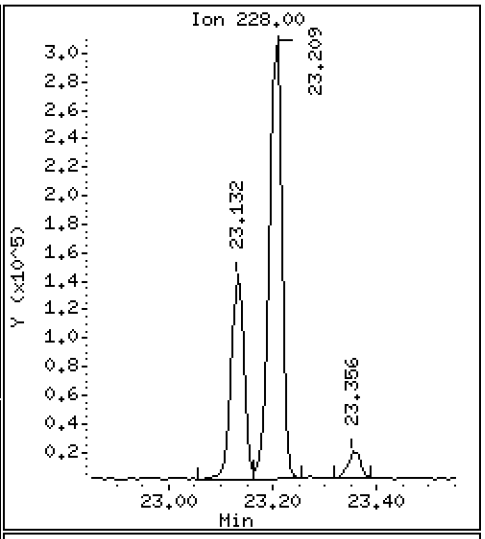
Column phase: ZB-5msi

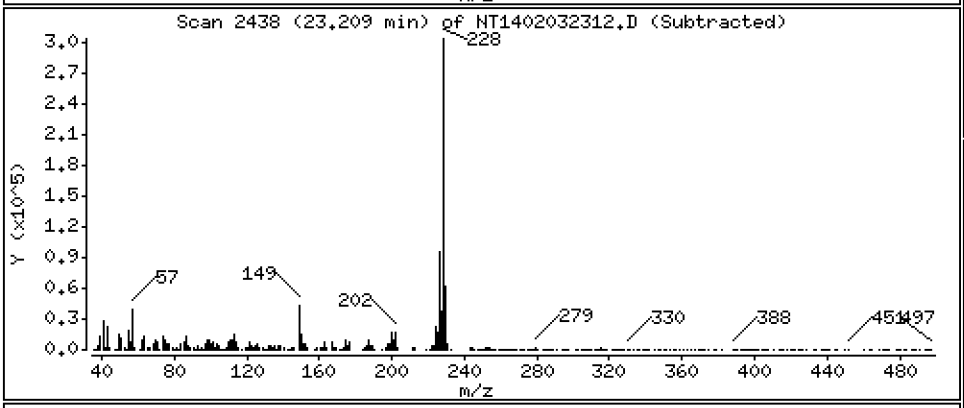
Column diameter: 0.25

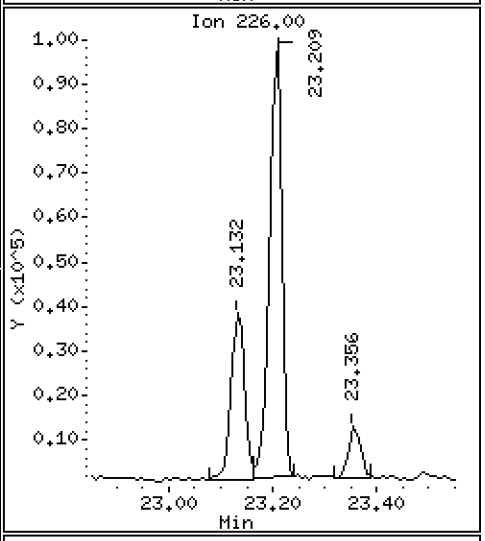
71 Chrysene

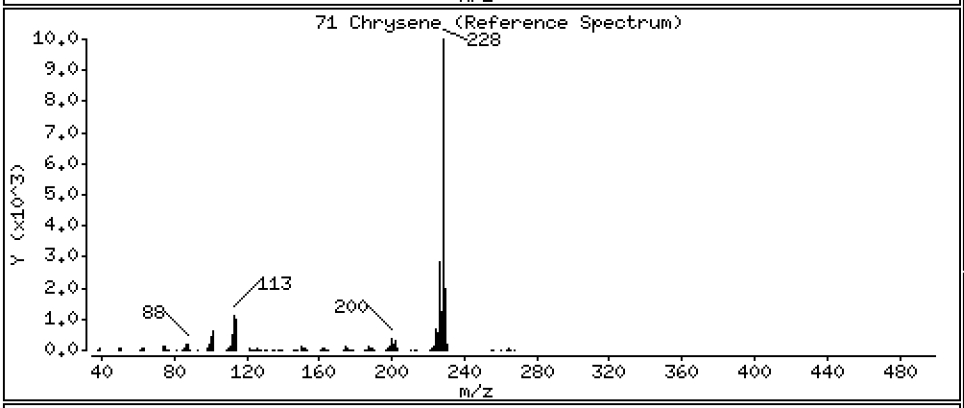
Concentration: 10.81 ug/mL

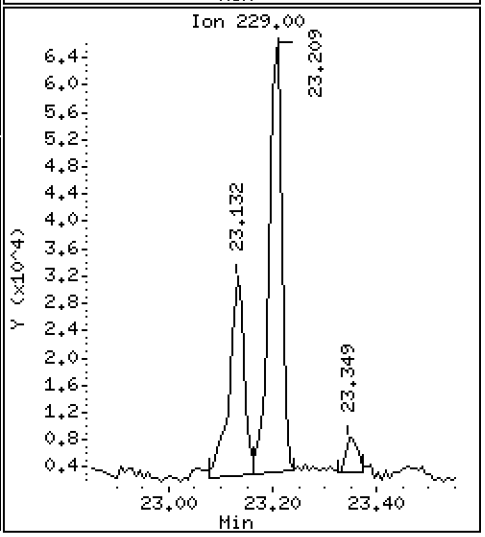


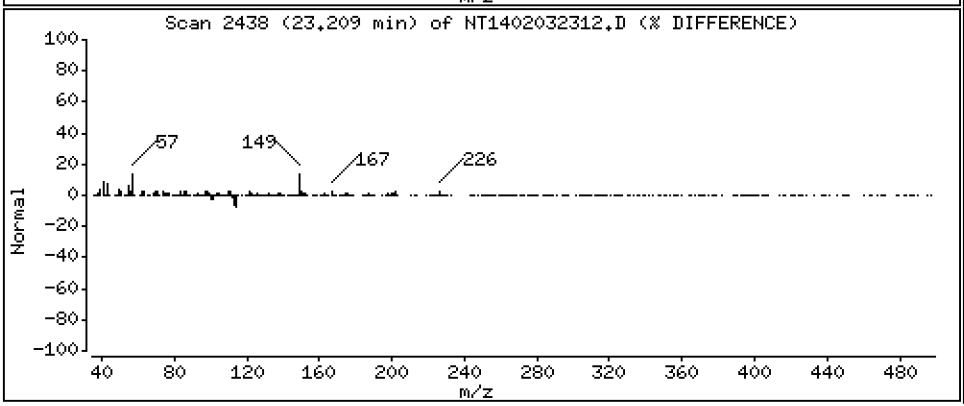












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

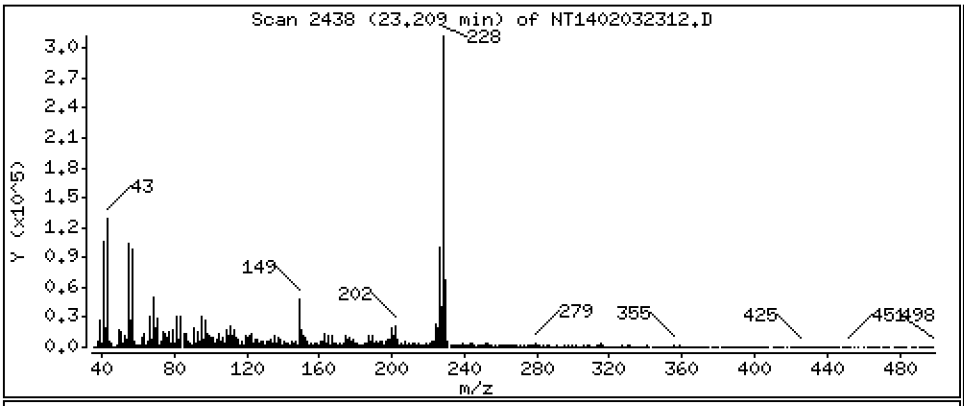
Operator: DSD

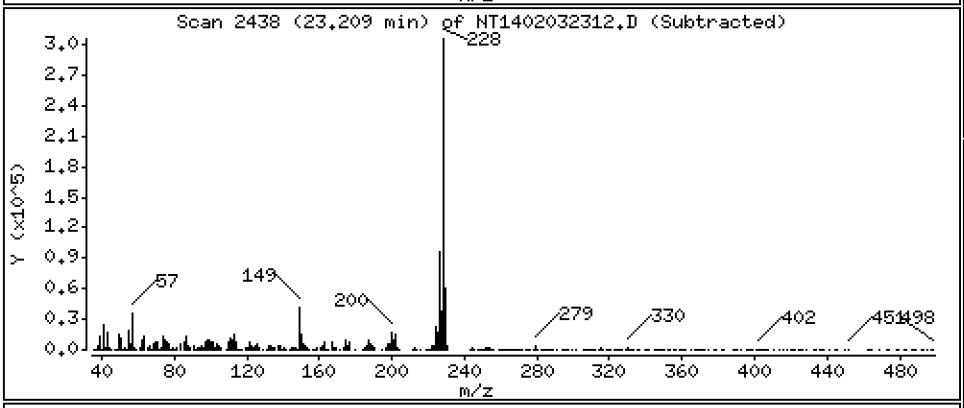
Column phase: ZB-5msi

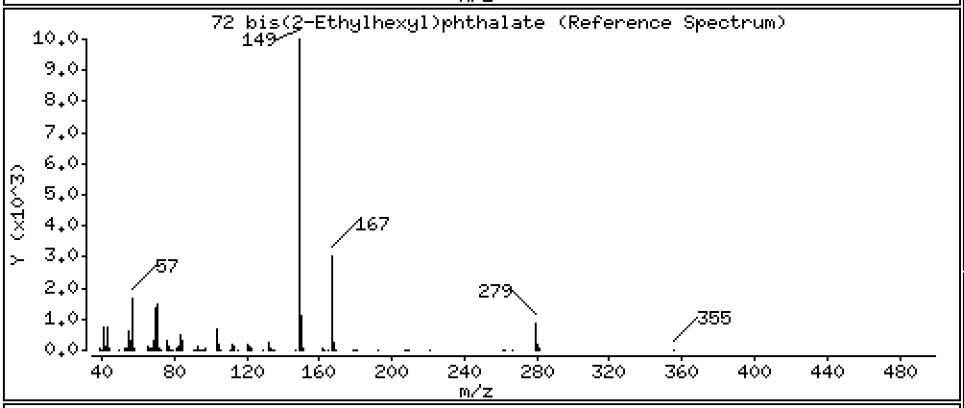
Column diameter: 0.25

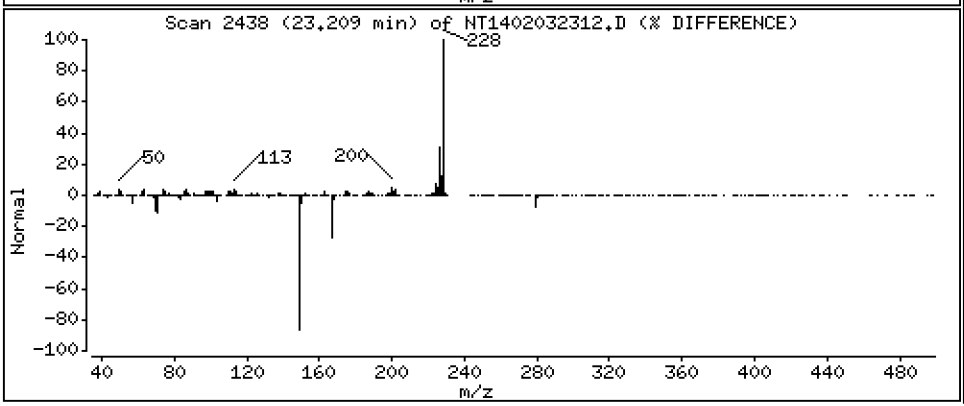
72 bis(2-Ethylhexyl)phthalate

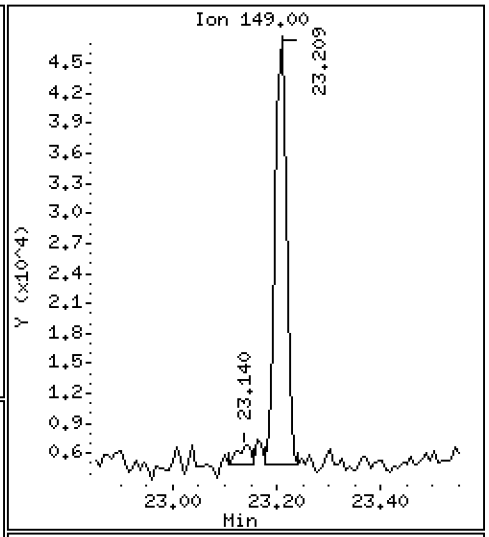
Concentration: 1.901 ug/mL

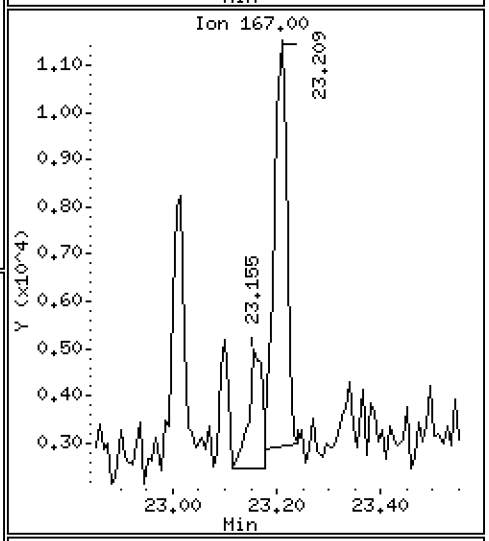


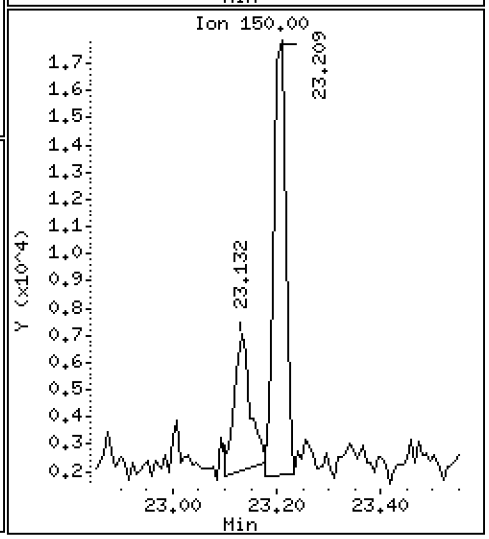












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

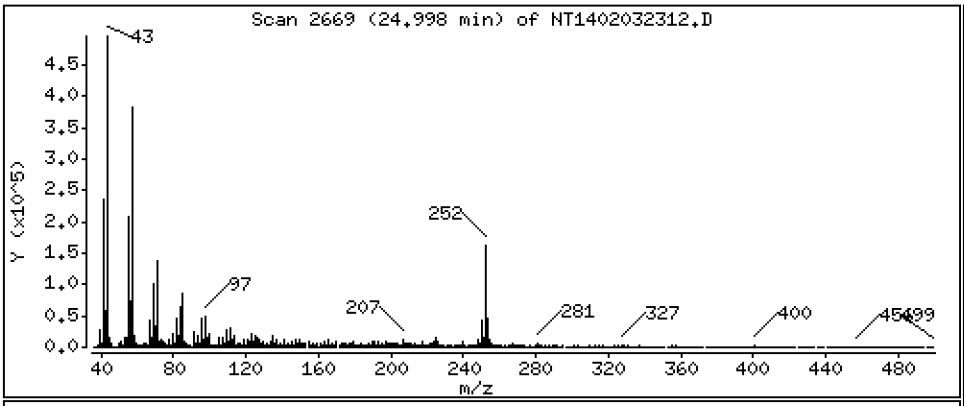
Operator: DSD

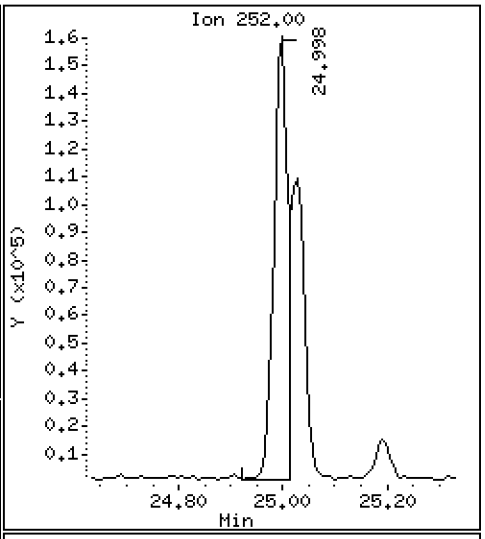
Column phase: ZB-5msi

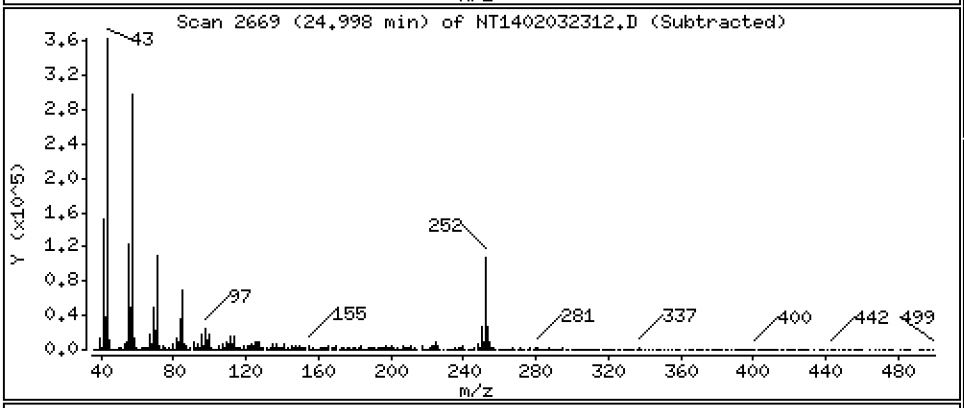
Column diameter: 0.25

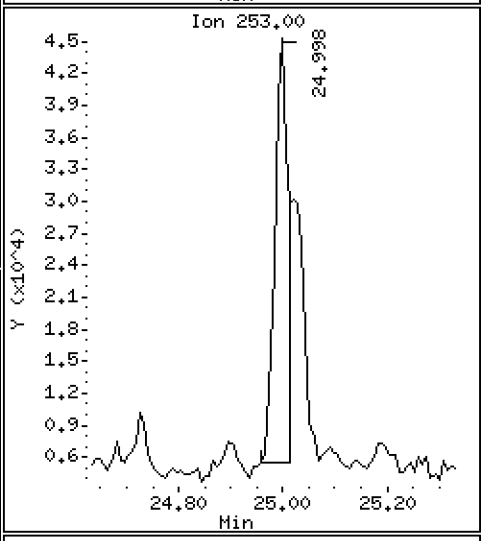
74 Benzo(b)fluoranthene

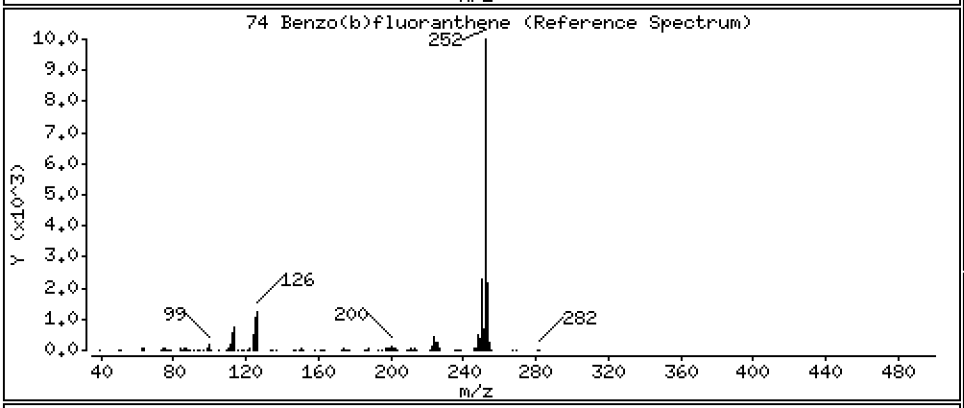
Concentration: 7.296 ug/mL

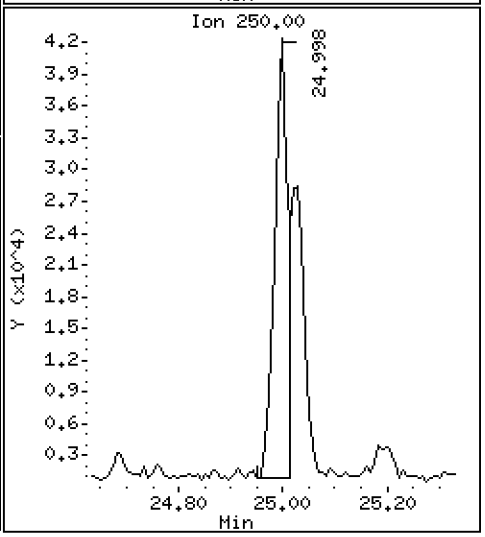


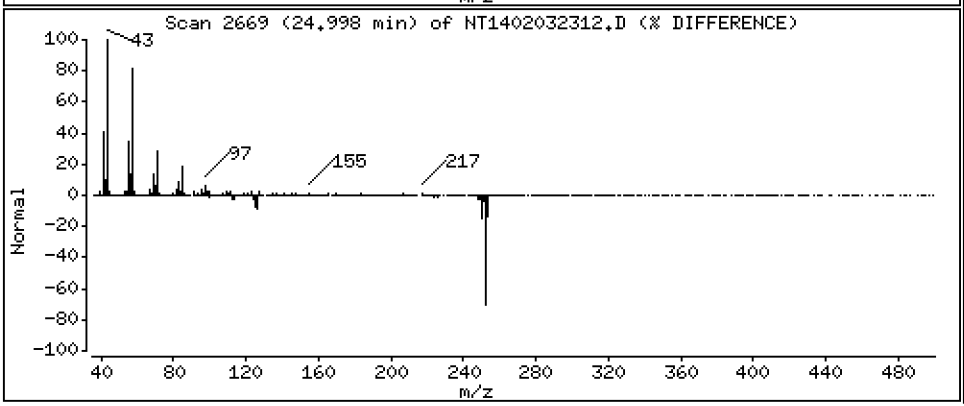












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

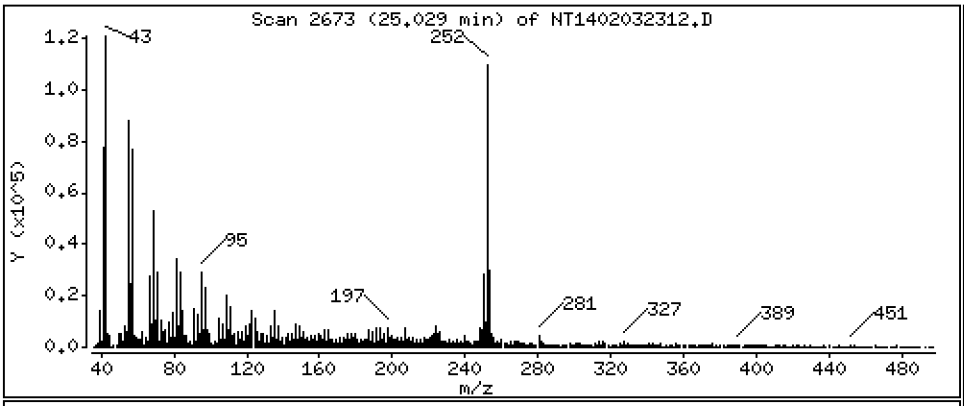
Operator: DSD

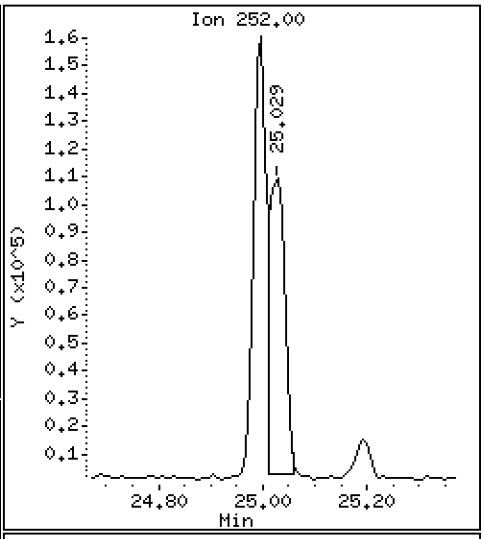
Column phase: ZB-5msi

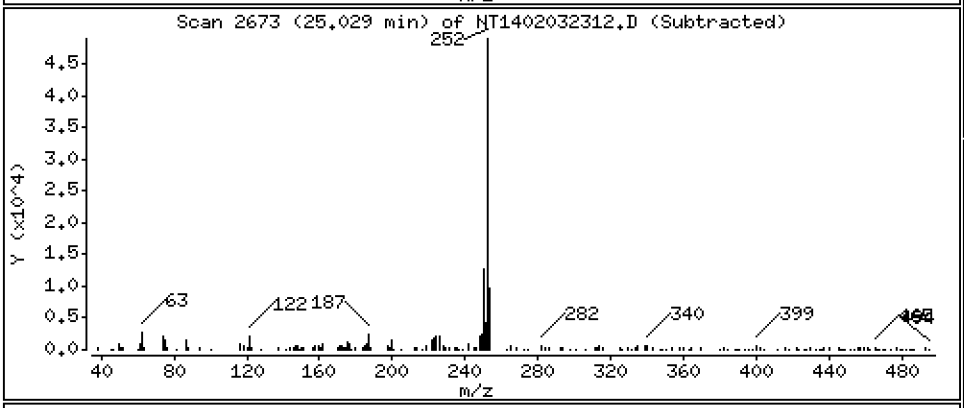
Column diameter: 0.25

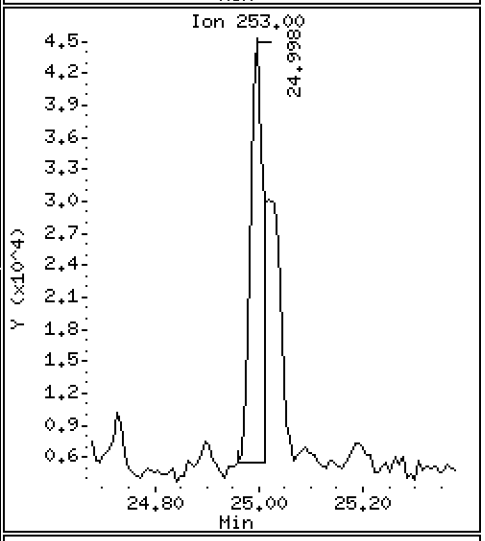
75 Benzo(k)fluoranthene

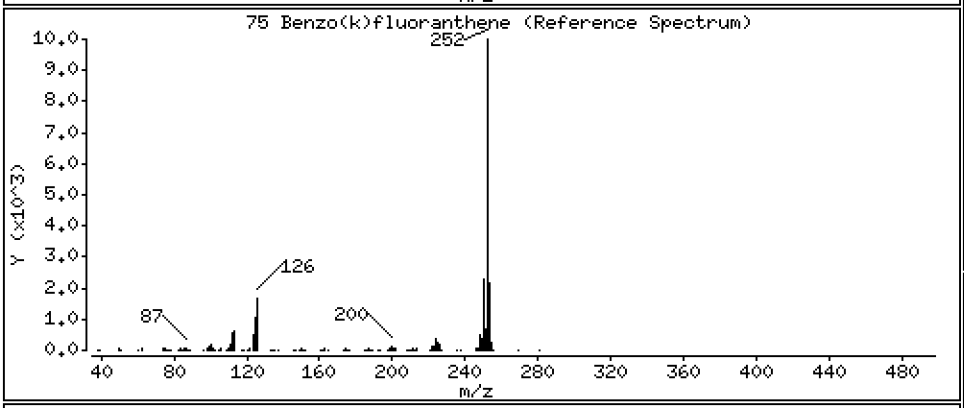
Concentration: 5.176 ug/mL

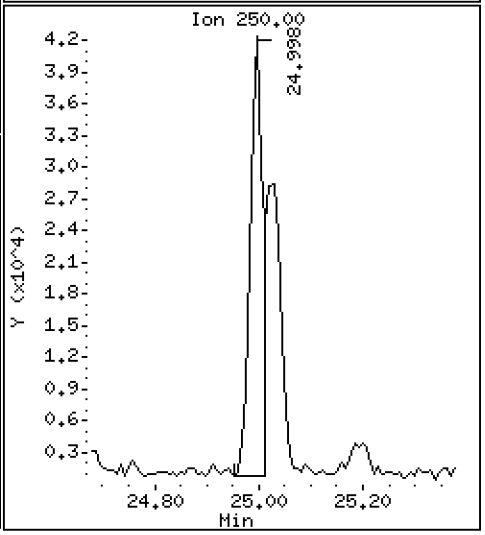


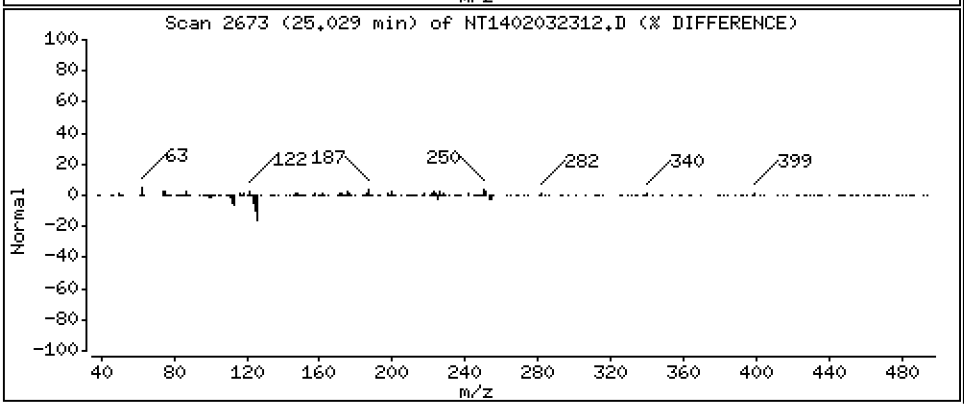












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

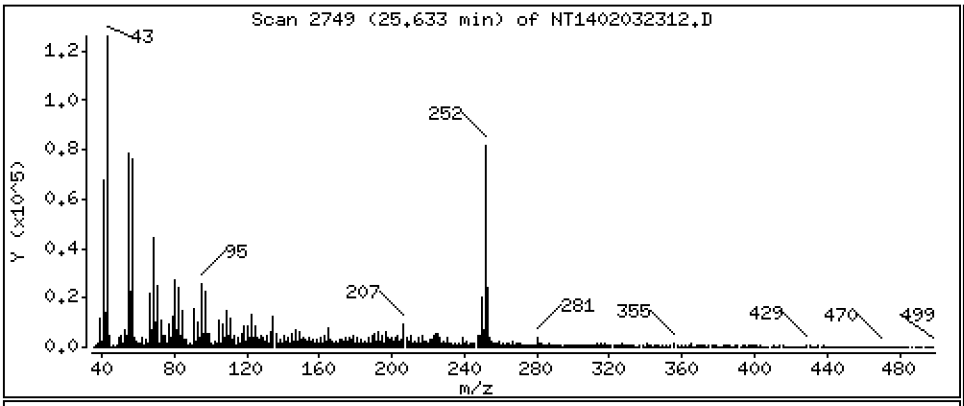
Operator: DSD

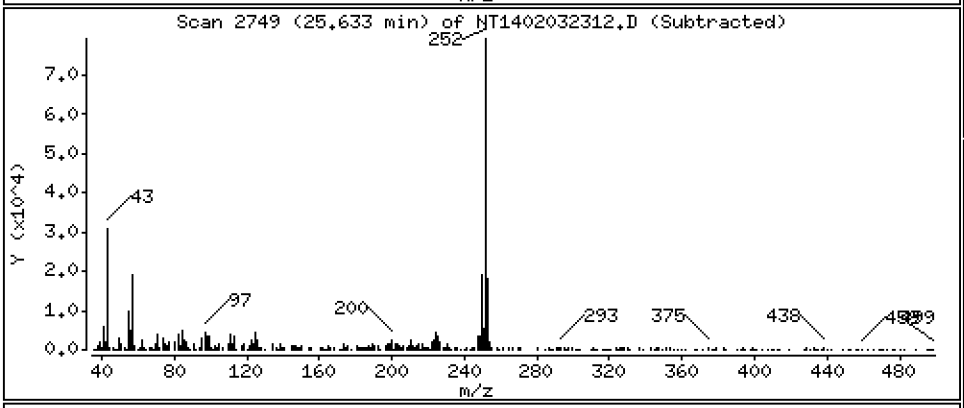
Column phase: ZB-5msi

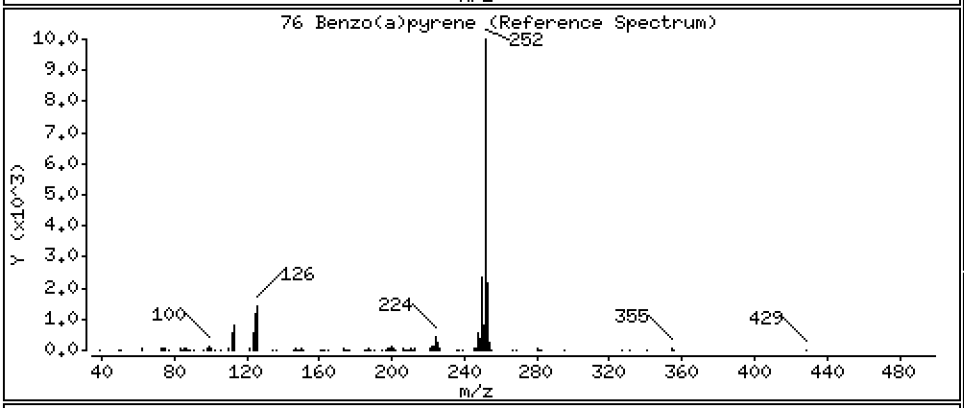
Column diameter: 0.25

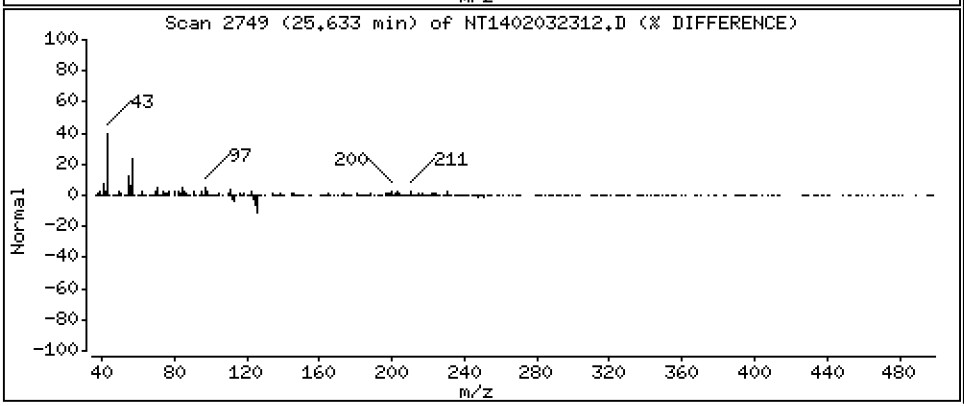
76 Benzo(a)pyrene

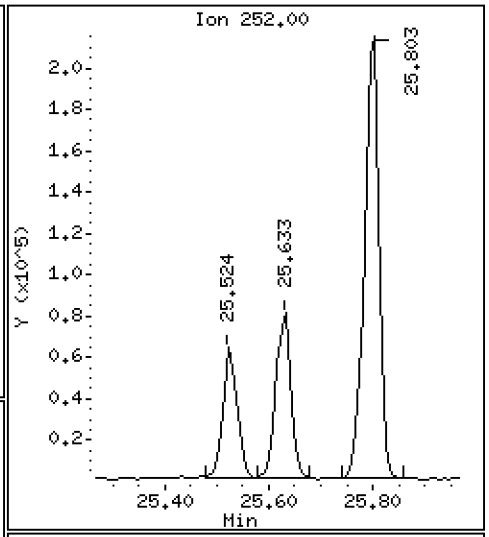
Concentration: 4.350 ug/mL

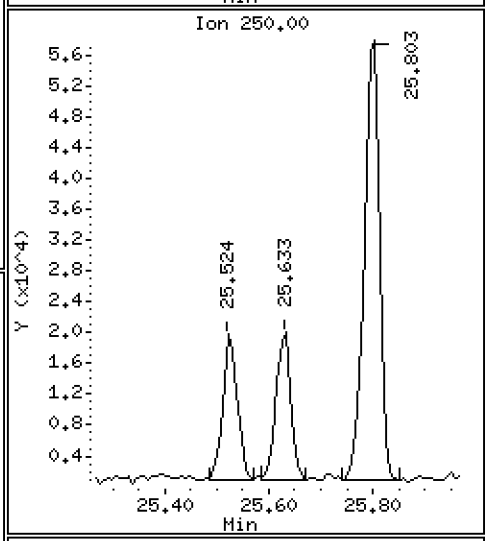


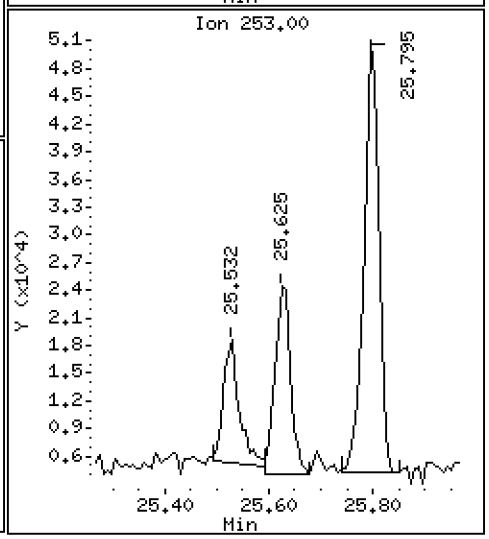












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

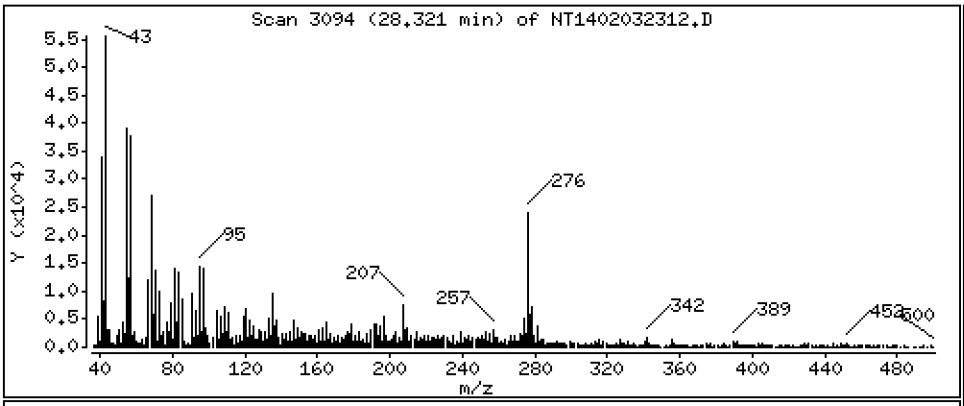
Operator: DSD

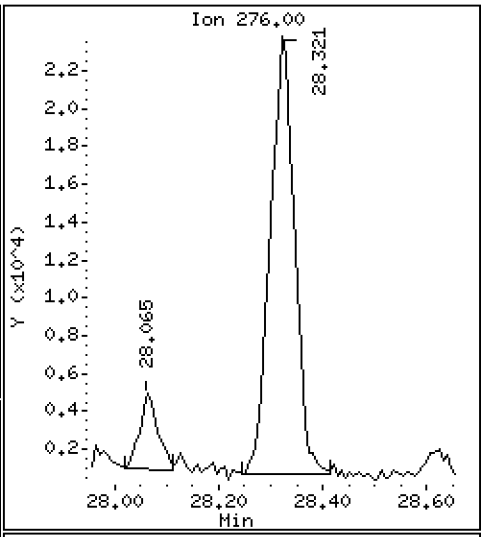
Column phase: ZB-5msi

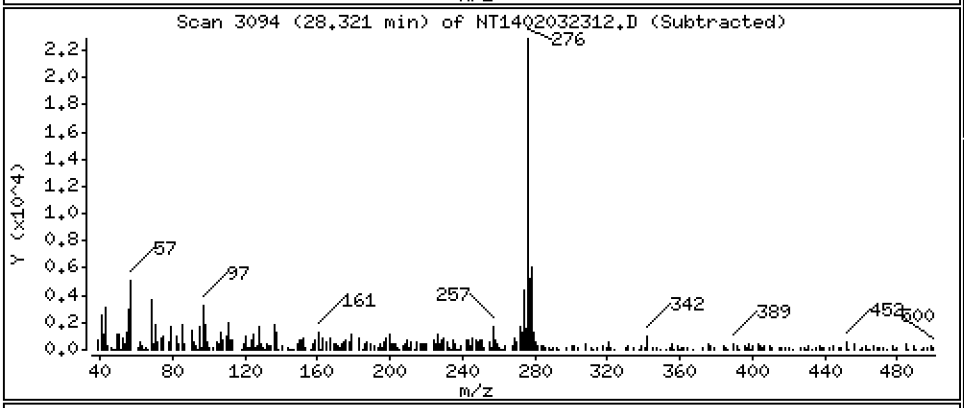
Column diameter: 0.25

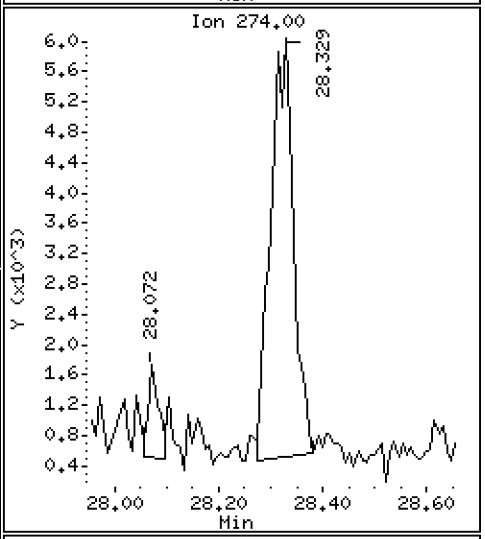
78 Indeno(1,2,3-cd)pyrene

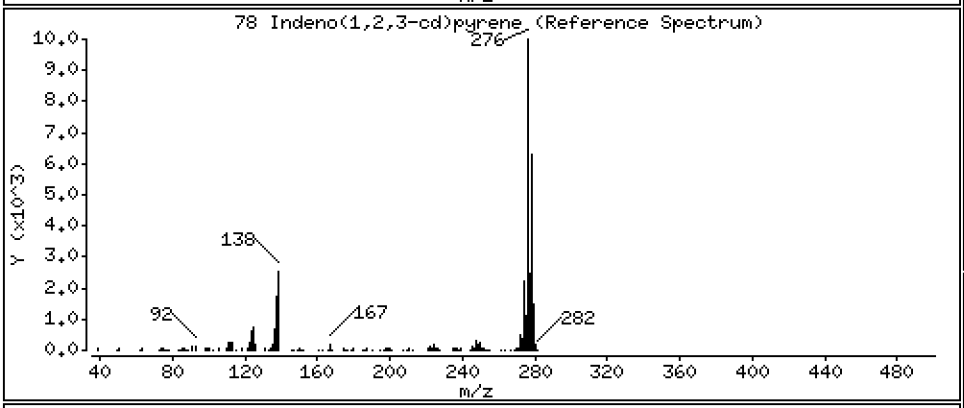
Concentration: 1.679 ug/mL

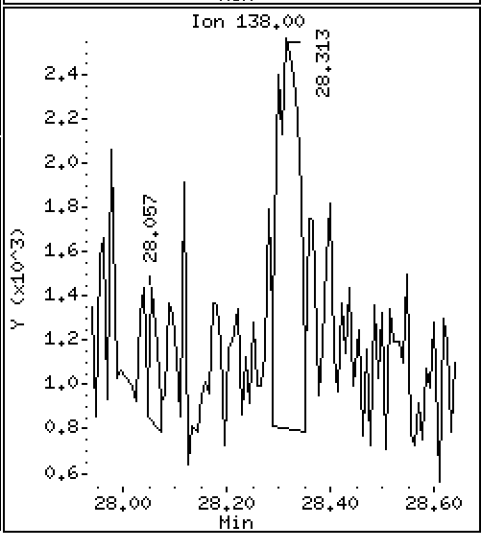


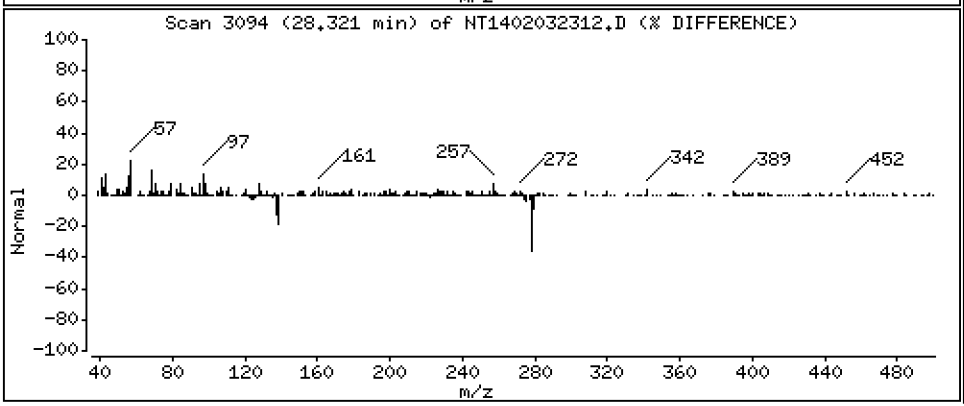












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

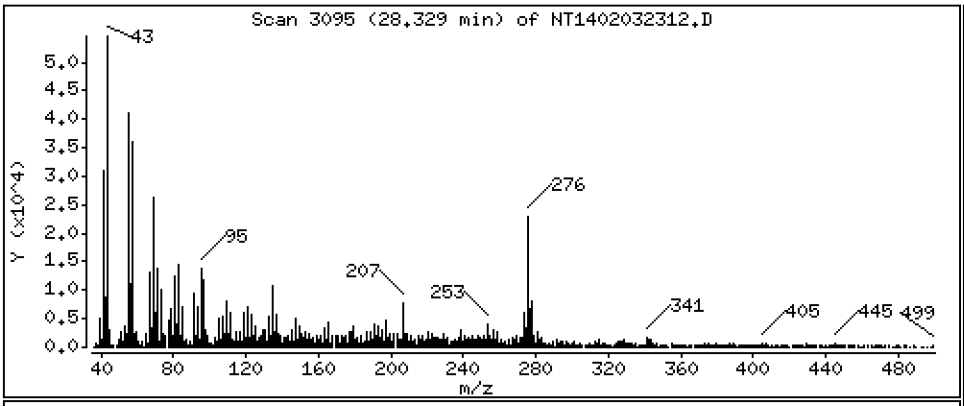
Operator: DSD

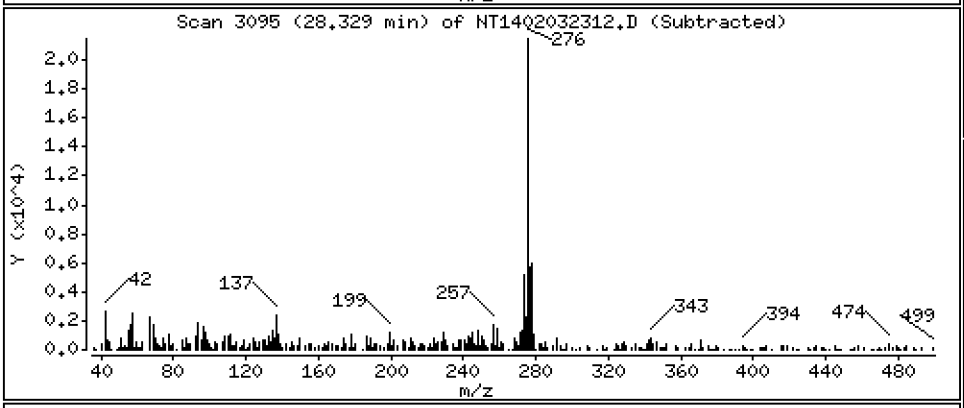
Column phase: ZB-5msi

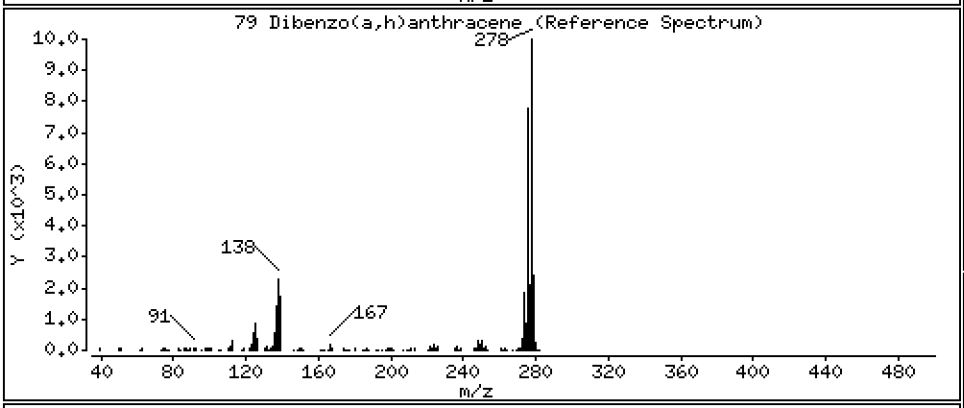
Column diameter: 0.25

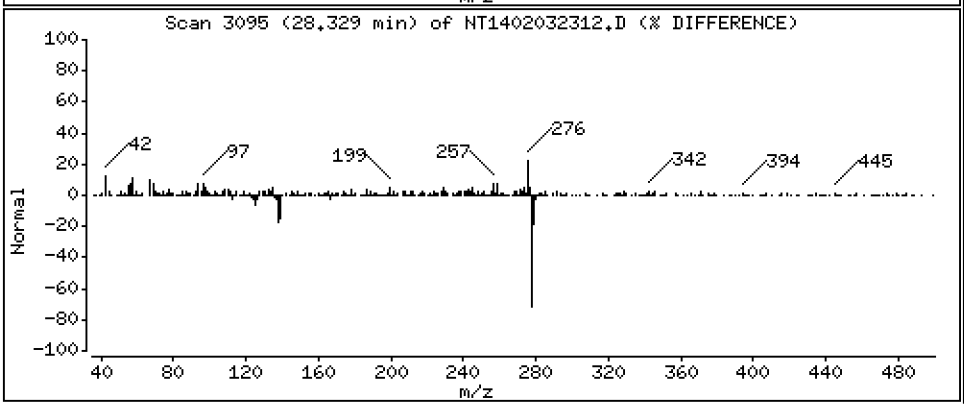
79 Dibenzo(a,h)anthracene

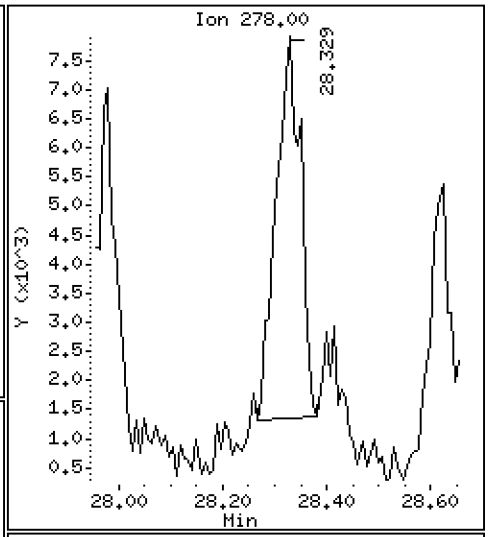
Concentration: 0.5596 ug/mL

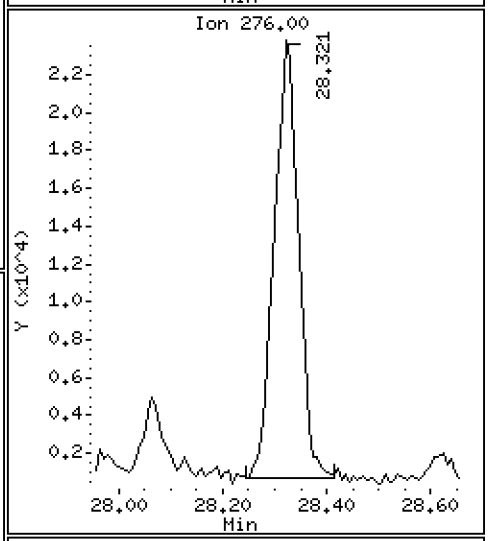


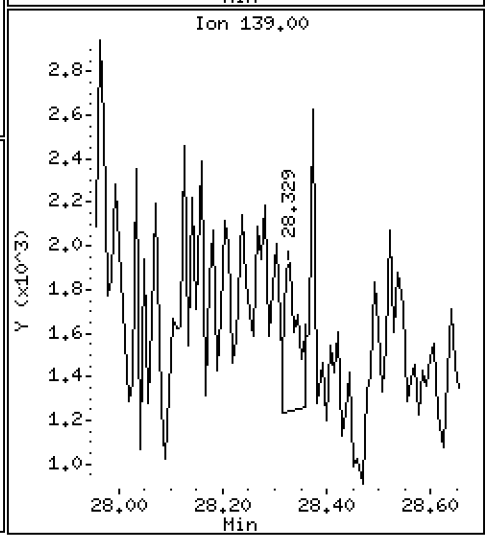












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

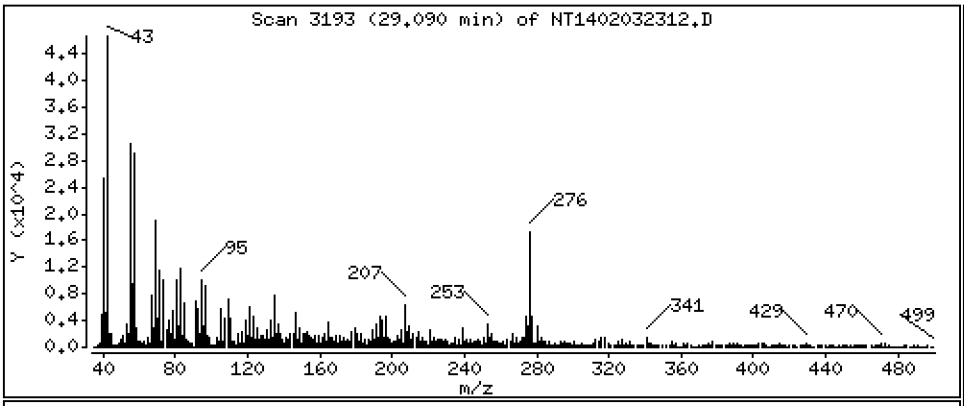
Operator: DSD

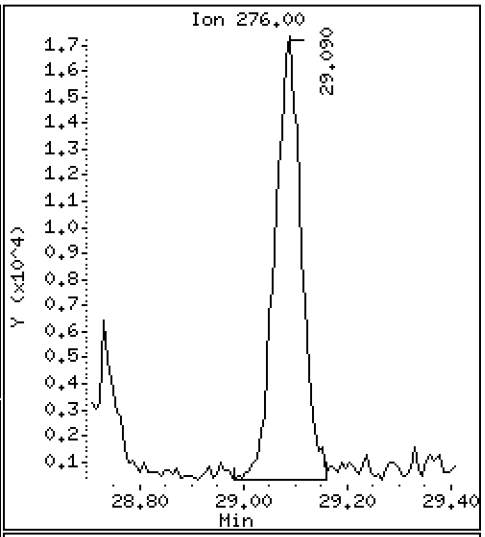
Column phase: ZB-5msi

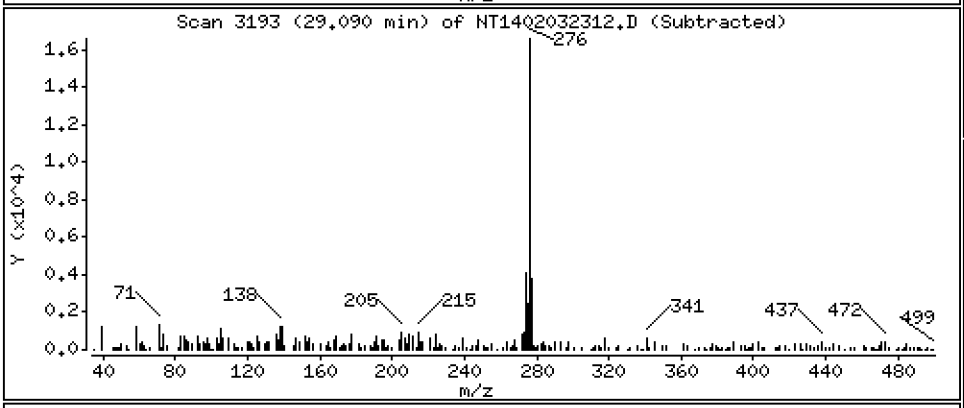
Column diameter: 0.25

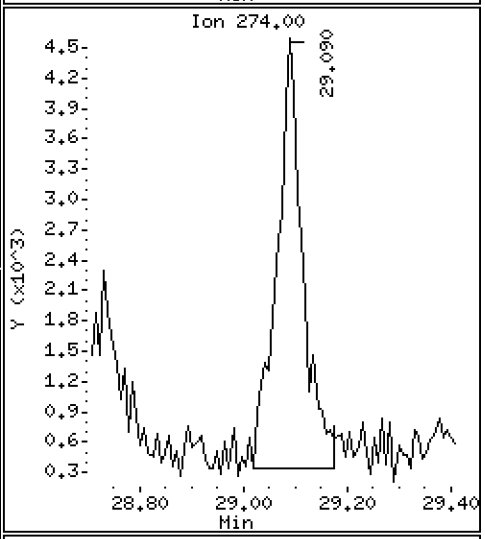
80 Benzo(g,h,i)perylene

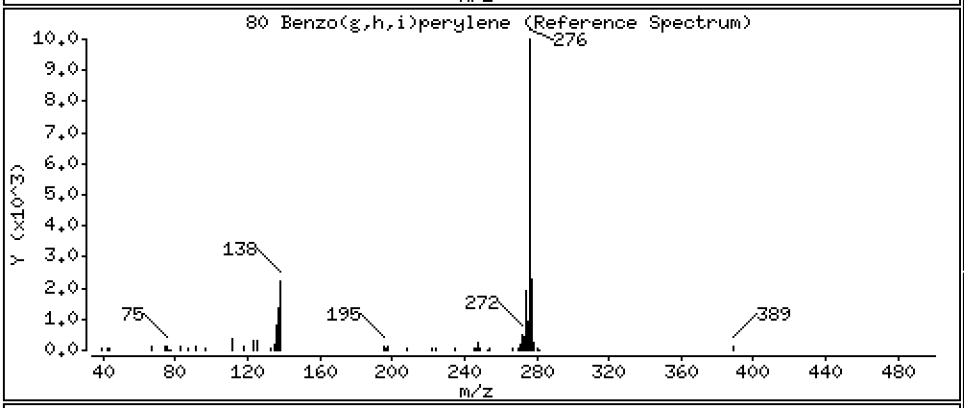
Concentration: 1.837 ug/mL

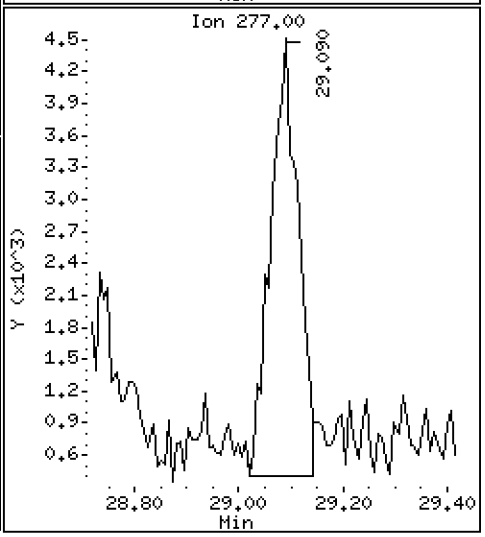


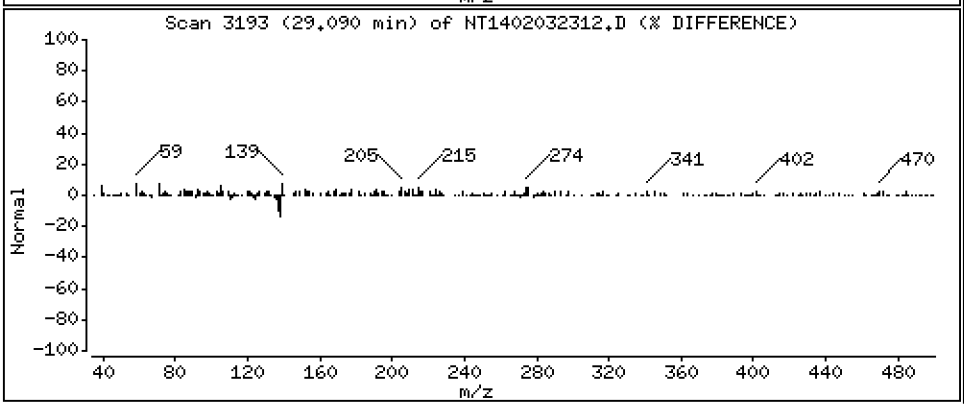












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

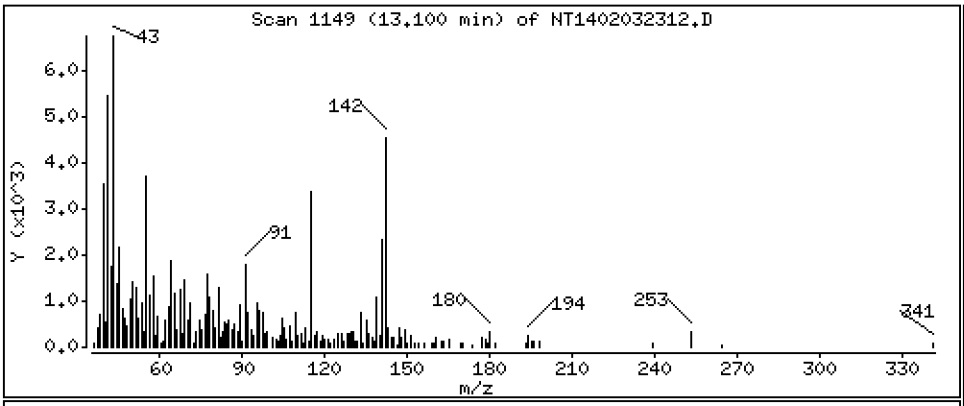
Operator: DSD

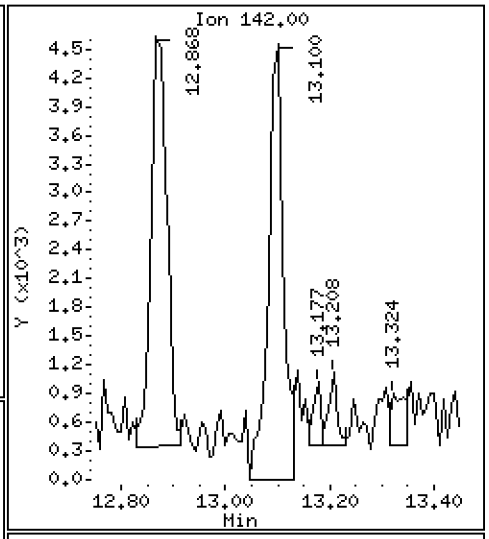
Column phase: ZB-5msi

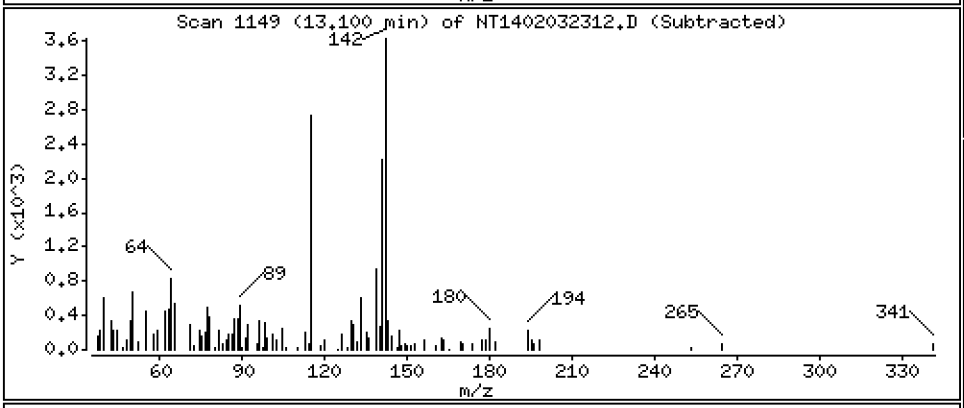
Column diameter: 0.25

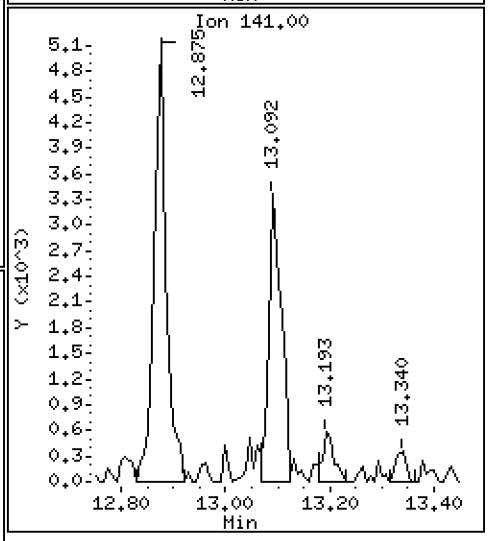
105 1-methylnaphthalene

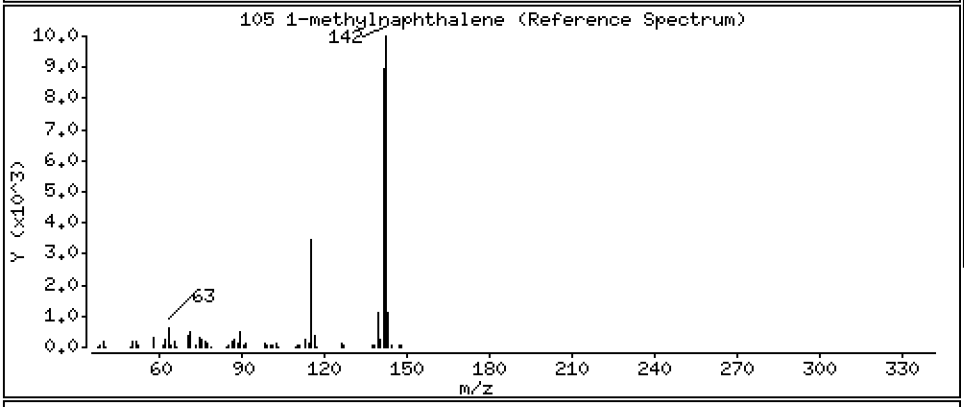
Concentration: 0.1966 ug/mL

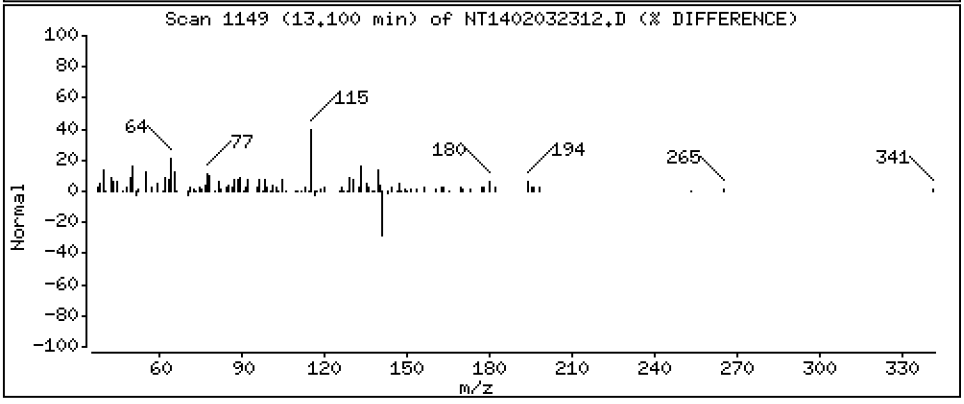












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Date : 03-FEB-2023 19:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-02

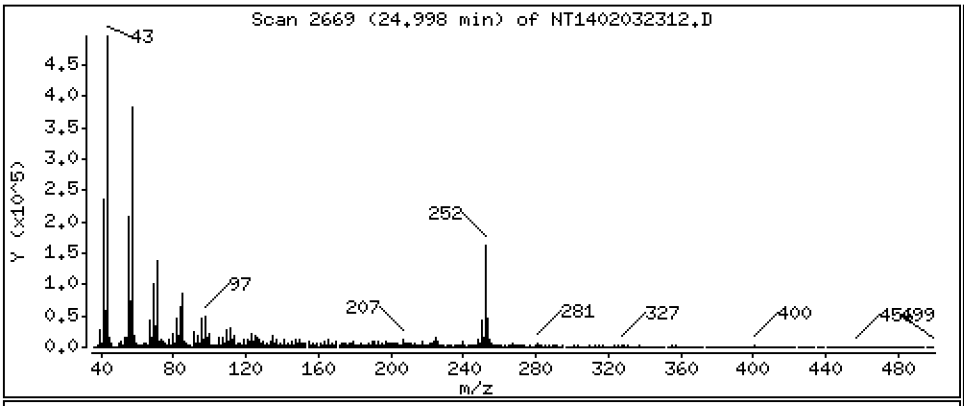
Operator: DSD

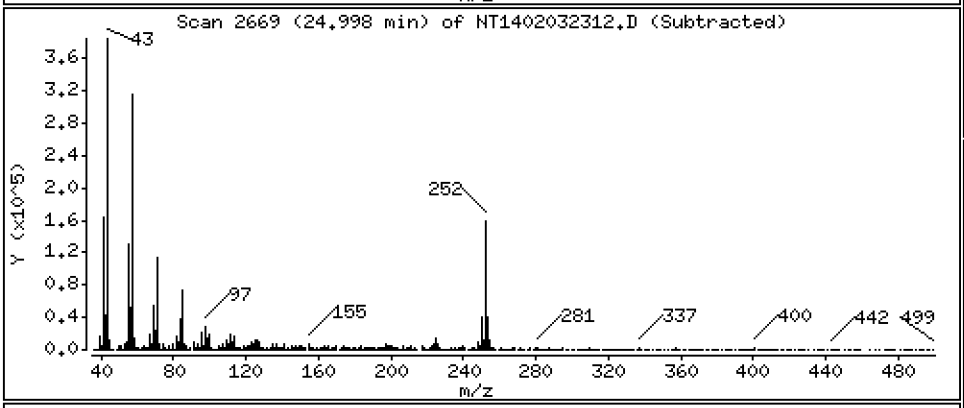
Column phase: ZB-5msi

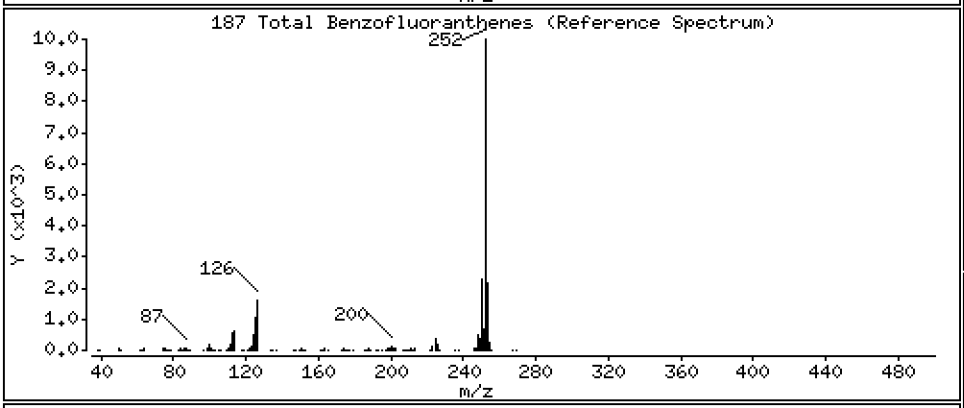
Column diameter: 0.25

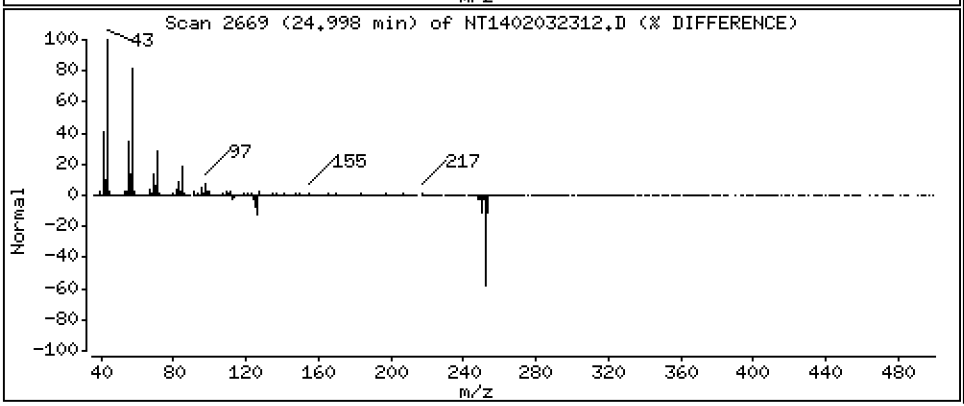
187 Total Benzofluoranthenes

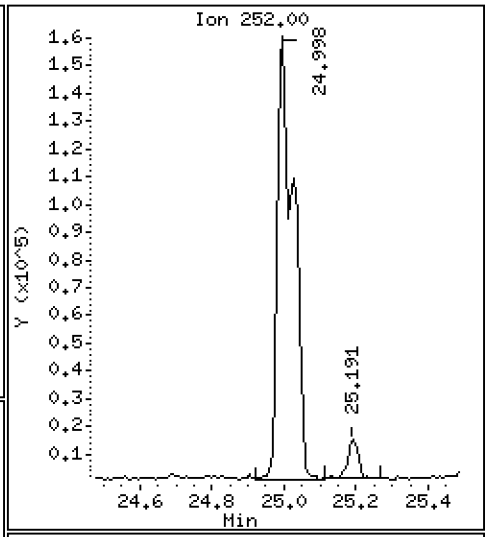
Concentration: 12.08 ug/mL

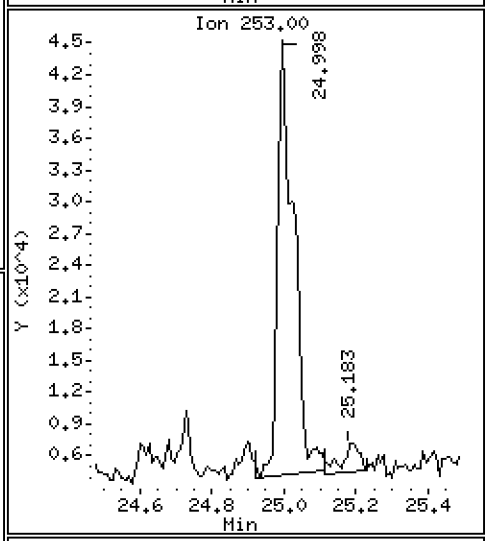


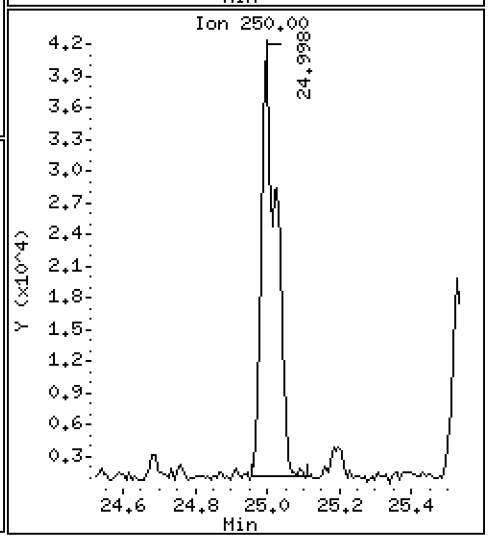












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230203.b\NT1402032312.D
Lab Smp Id: 22L0459-02
Inj Date : 03-FEB-2023 19:45 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : 22L0459-02
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	6.721	6.720	(0.752)	66836	4.60940	4.609
$ 2	Phenol-d5	99	8.313	8.312	(0.930)	101009	5.30190	5.302
3	Phenol	94	8.328	8.336	(0.932)	5675	0.24285	0.2429(M)
$ 5	2-Chlorophenol-d4	132	8.575	8.583	(0.959)	108021	5.86213	5.862
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	8.939	8.946	(1.000)	53986	4.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	9.296	9.303	(1.040)	48269	3.69086	3.691
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
15	4-Methylphenol	108	9.723	9.722	(1.088)	4572	0.22576	0.2258
$ 18	Nitrobenzene-d5	82	10.033	10.041	(0.878)	124590	3.87026	3.870
19	Nitrobenzene	77	Compound Not Detected.					
20	Isophorone	82	Compound Not Detected.					
21	2-Nitrophenol	139	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
23	Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
25	2,4-Dichlorophenol	162	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.429	11.436	(1.000)	224993	4.00000	
28	Naphthalene	128	11.475	11.482	(1.004)	13403	0.23676	0.2368
29	4-Chloroaniline	127	Compound Not Detected.					
30	Hexachlorobutadiene	225	Compound Not Detected.					
31	4-Chloro-3-methylphenol	107	Compound Not Detected.					
32	2-Methylnaphthalene	142	12.867	12.882	(1.126)	8236	0.17846	0.1785
33	Hexachlorocyclopentadiene	237	Compound Not Detected.					

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	13.656	13.664	(0.907)	205717	4.23998	4.240
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	14.562	14.570	(0.967)	4727	0.09050	0.09050
	40 Acenaphthylene	152	14.740	14.748	(0.979)	12143	0.19217	0.1922
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	15.057	15.057	(1.000)	136330	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	15.119	15.127	(1.004)	9529	0.22295	0.2229
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	15.452	15.451	(1.026)	13539	0.21860	0.2186
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	16.024	16.031	(1.064)	31419	0.41394	0.4139
	49 Fluorene	166	16.163	16.163	(1.073)	22389	0.29340	0.2934
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	16.702	16.702	(1.109)	78155	6.87832	6.878
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.101	18.093	(1.000)	276432	4.00000	
	60 Phenanthrene	178	18.147	18.147	(1.003)	142056	1.90459	1.905
	61 Anthracene	178	18.240	18.232	(1.008)	154034	2.16129	2.161
	62 Carbazole	167	18.573	18.565	(1.026)	32928	0.50315	0.5032
	63 Di-n-butylphthalate	149	19.385	19.377	(1.071)	23793	0.23450	0.2345
	64 Fluoranthene	202	20.569	20.538	(0.888)	385571	8.24883	8.249
	65 Pyrene	202	20.979	20.963	(0.906)	400680	8.59606	8.596
$	66 Terphenyl-d14	244	21.258	21.250	(0.918)	194413	5.23604	5.236
	67 Butylbenzylphthalate	149	22.179	22.179	(0.958)	11700	0.50788	0.5079
	68 Benzo(a)anthracene	228	23.131	23.123	(0.999)	234373	5.74165	5.742
*	69 Chrysene-d12	240	23.162	23.154	(1.000)	111917	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	23.209	23.201	(1.002)	490257	10.8071	10.81
	72 bis(2-Ethylhexyl)phthalate	149	23.209	23.201	(0.960)	61077	1.90137	1.901
*	134 Di-n-octylphthalate-d4	153	24.184	24.184	(1.000)	195398	4.00000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	24.997	24.981	(0.971)	302814	7.29626	7.296
	75 Benzo(k)fluoranthene	252	25.028	25.020	(0.972)	219935	5.17610	5.176(M)
	76 Benzo(a)pyrene	252	25.632	25.616	(0.996)	154265	4.35025	4.350
*	77 Perylene-d12	264	25.740	25.725	(1.000)	118107	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.320	28.305	(1.100)	75200	1.67854	1.679
	79 Dibenzo(a,h)anthracene	278	28.328	28.305	(1.101)	21589	0.55957	0.5596(M)
	80 Benzo(g,h,i)perylene	276	29.089	29.058	(1.130)	60943	1.83689	1.837
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	142	13.099	13.099	(1.146)	8811	0.19660	0.1966
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.997	24.981	(0.971)	487992	12.0779	12.08
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032312.D
Lab Smp Id: 22L0459-02
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	53986	-16.88
27 Naphthalene-d8	262858	131429	525716	224993	-14.41
42 Acenaphthene-d10	167543	83772	335086	136330	-18.63
59 Phenanthrene-d10	341039	170520	682078	276432	-18.94
69 Chrysene-d12	222731	111366	445462	111917	-49.75
134 Di-n-octylphthala	333425	166713	666850	195398	-41.40
77 Perylene-d12	152721	76361	305442	118107	-22.66

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.08
27 Naphthalene-d8	11.44	10.94	11.94	11.43	-0.07
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.10	0.04
69 Chrysene-d12	23.15	22.65	23.65	23.16	0.03
134 Di-n-octylphthala	24.18	23.68	24.68	24.18	0.00
77 Perylene-d12	25.73	25.23	26.23	25.74	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032312.D

Lab ID: 22L0459-02
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 19:45

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

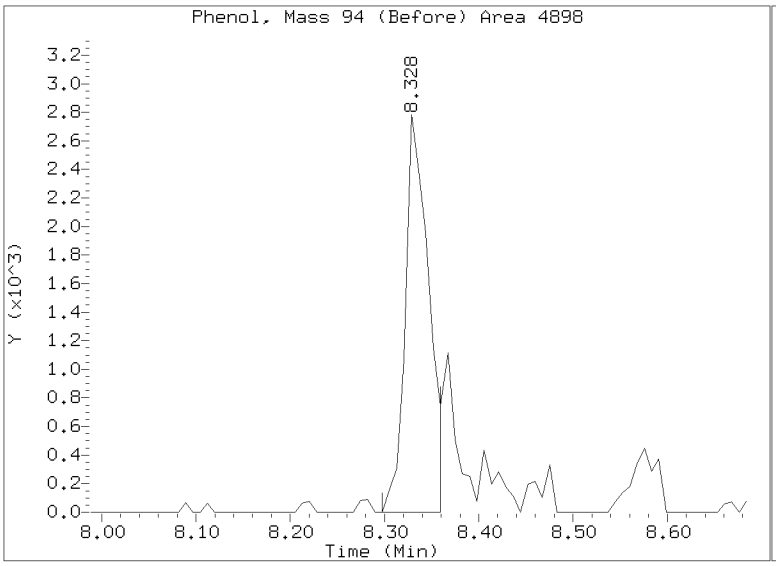
RRT check based on Ccal File: NT1402032303.D

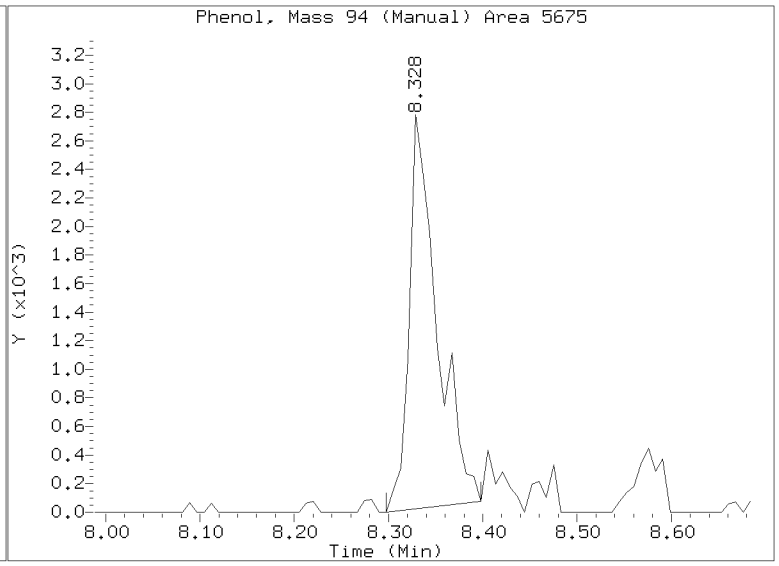
On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

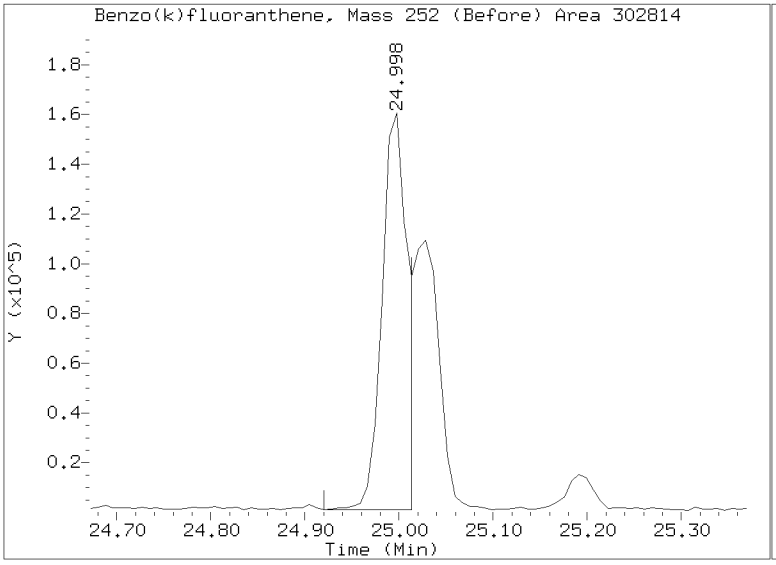
* Only compounds listed in the work order have been verified by the analyst *

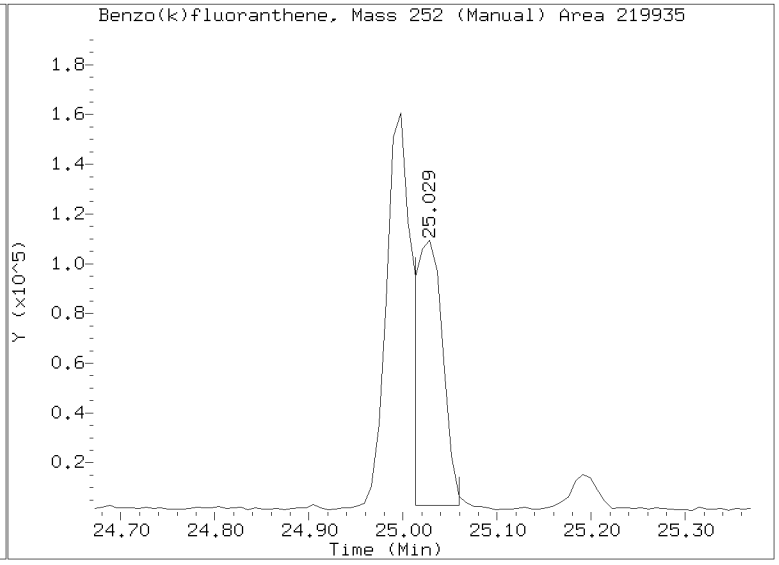
Quant Ion Manual Peak Adjustment Report

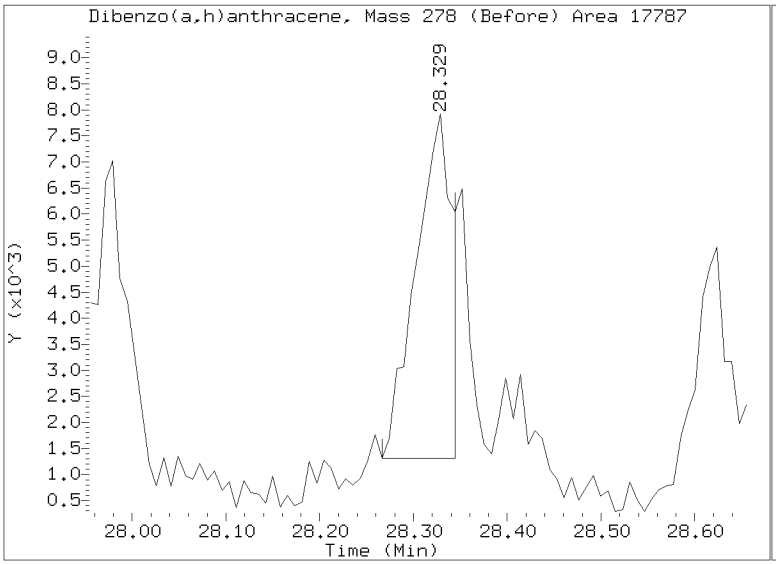
Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032312.D
Injection Date: 03-FEB-2023 19:45
Lab ID:22L0459-02 Client ID:
Report Date: 02/04/2023 10:29

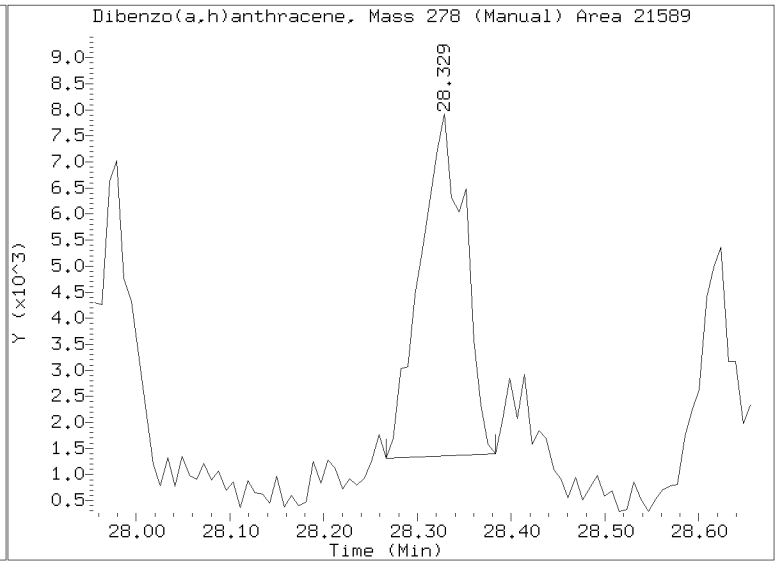












Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1039C

Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E
Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-03 A	SDG:	22L0459
Sampled:	12/16/22 09:50	Prepared:	01/05/23 16:13	File ID:	NT1402032313.D
% Solids:	55.02	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 20:21
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	18.19 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	15.7	J	4.4	20.0
106-44-5	4-Methylphenol	1	38.2		7.4	20.0
91-20-3	Naphthalene	1	25.0		4.2	20.0
91-57-6	2-Methylnaphthalene	1	21.5		4.5	20.0
208-96-8	Acenaphthylene	1	12.5	J	6.2	20.0
131-11-3	Dimethylphthalate	1	20.0	U	4.4	20.0
83-32-9	Acenaphthene	1	18.3	J	5.2	20.0
132-64-9	Dibenzofuran	1	18.7	J	14.1	20.0
86-73-7	Fluorene	1	23.0		14.6	20.0
85-01-8	Phenanthrene	1	189		8.7	20.0
120-12-7	Anthracene	1	72.7		7.2	20.0
206-44-0	Fluoranthene	1	539		6.1	20.0
129-00-0	Pyrene	1	755		5.7	20.0
85-68-7	Butylbenzylphthalate	1	23.4	M	9.4	20.0
56-55-3	Benzo(a)anthracene	1	210		6.0	20.0
218-01-9	Chrysene	1	299		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	478		5.5	50.0
	Benzofluoranthenes, Total	1	720		10.0	40.0
50-32-8	Benzo(a)pyrene	1	270		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	131		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	39.1		17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	149		13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.39	386	51.5	27 - 120	
Phenol-d5	749.39	443	59.1	29 - 120	
2-Chlorophenol-d4	749.39	499	66.7	31 - 120	
1,2-Dichlorobenzene-d4	499.59	309	61.9	32 - 120	
Nitrobenzene-d5	499.59	324	64.8	30 - 120	
2-Fluorobiphenyl	499.59	373	74.7	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1039C

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

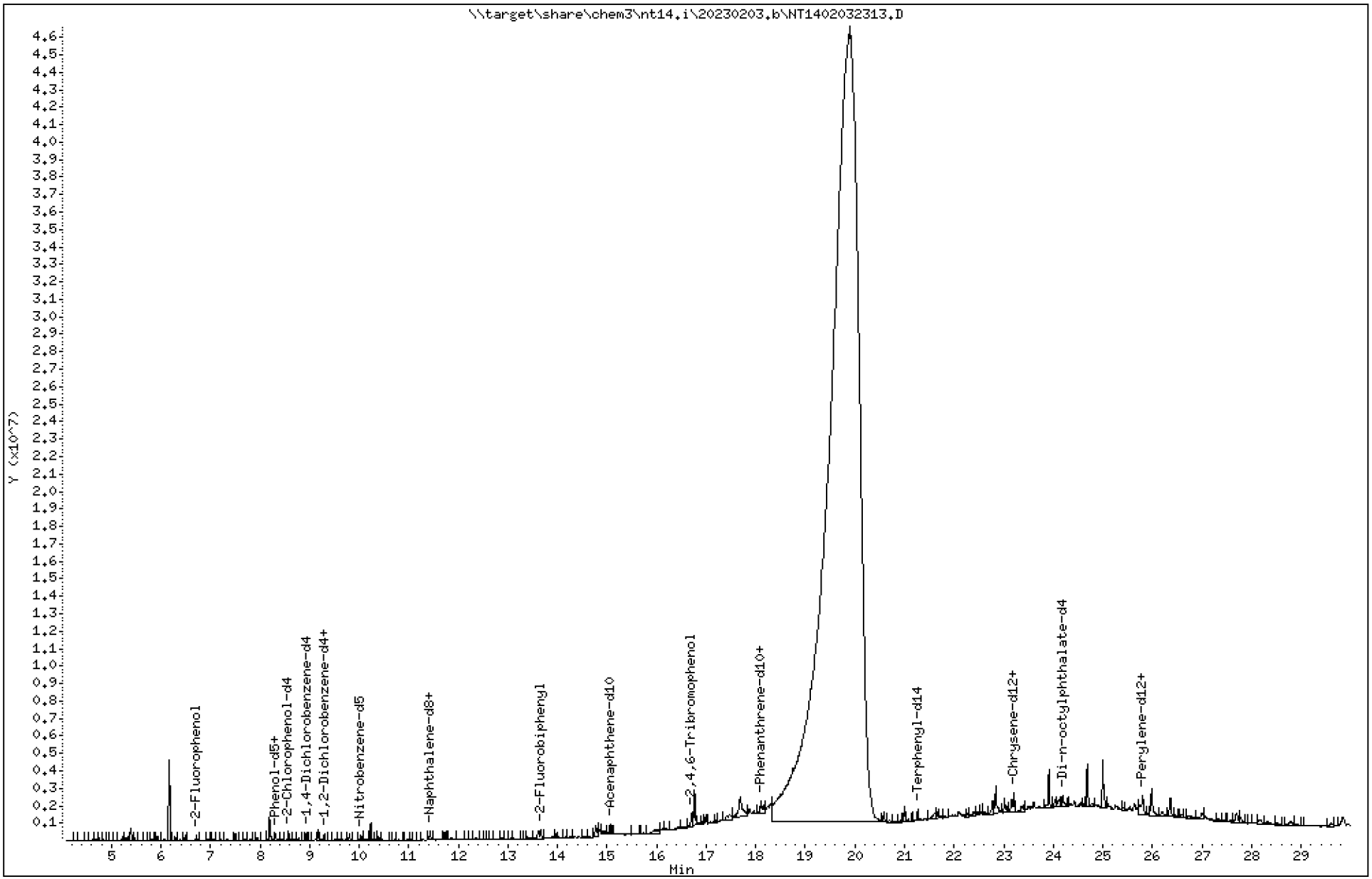
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-03 A	SDG:	22L0459
Sampled:	12/16/22 09:50	Prepared:	01/05/23 16:13	File ID:	NT1402032313.D
% Solids:	55.02	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 20:21
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	18.19 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	749.39	618	82.5	24 - 134	
p-Terphenyl-d14	499.59	446	89.3	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032313.D
Date : 03-FEB-2023 20:21
Client ID:
Sample Info: 22L0459-03

Instrument: nt14.i
Operator: DSD
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

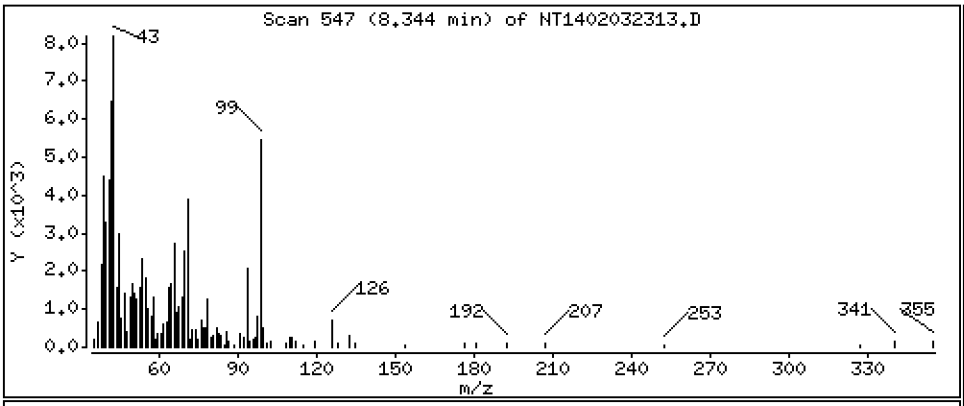
Operator: DSD

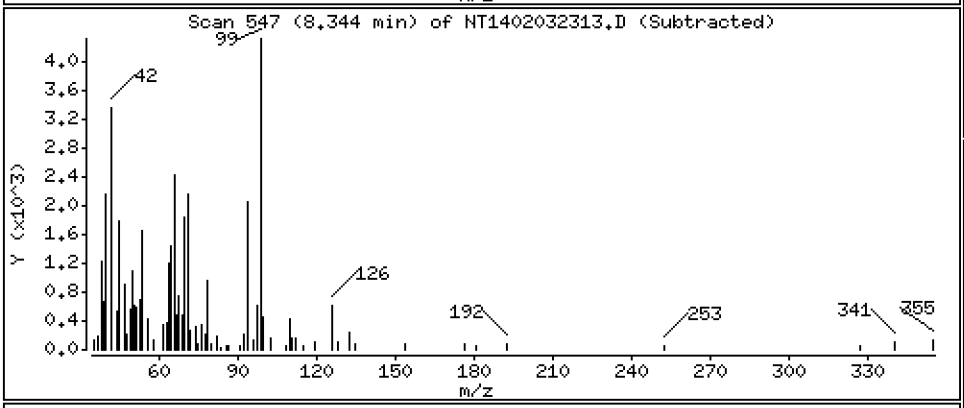
Column phase: ZB-5msi

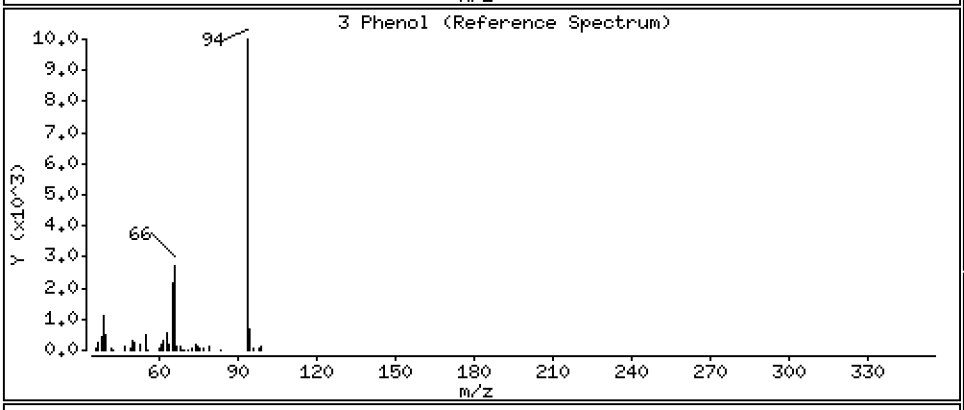
Column diameter: 0.25

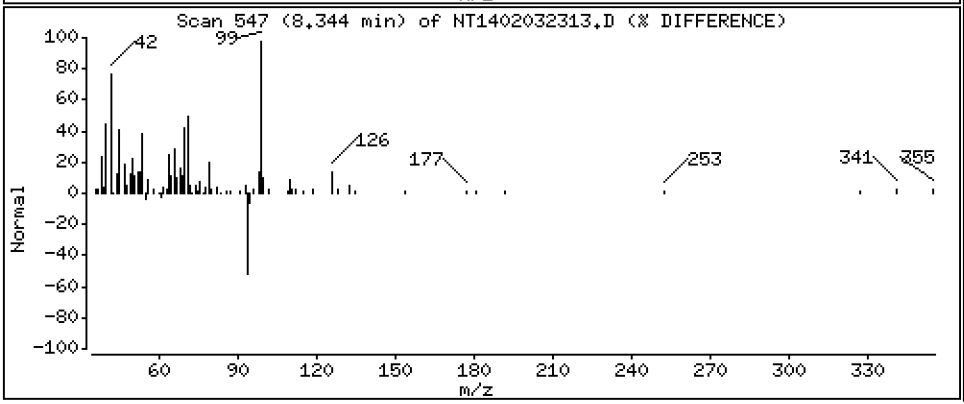
3 Phenol

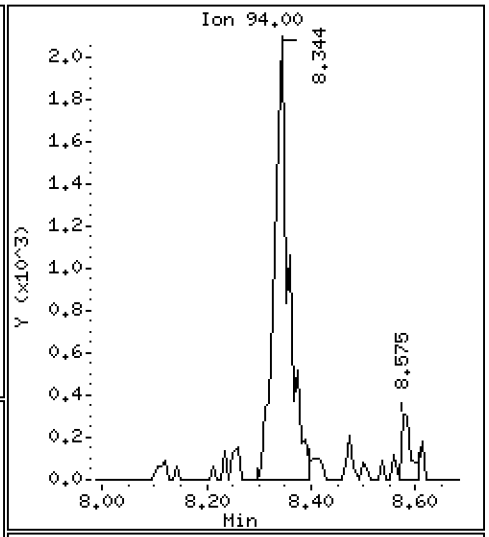
Concentration: 0.1571 ug/mL

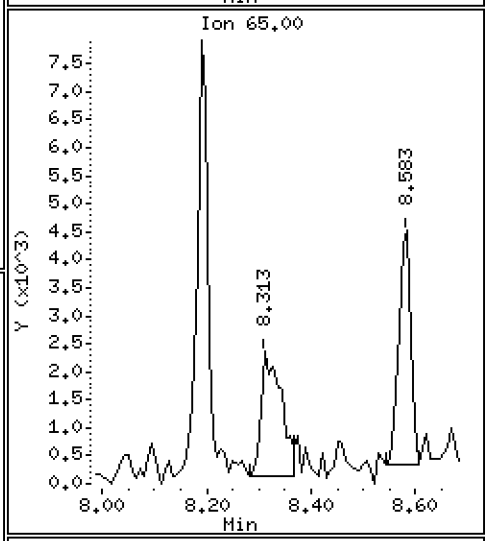


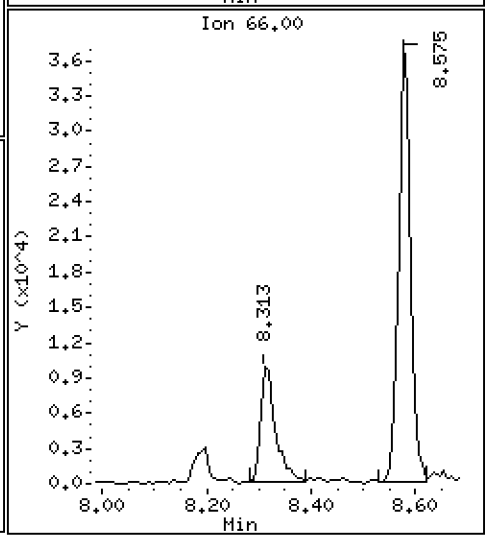












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

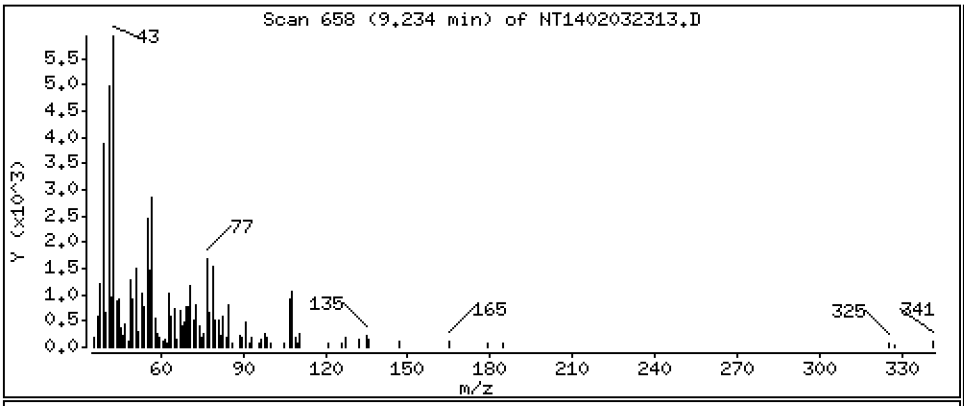
Operator: DSD

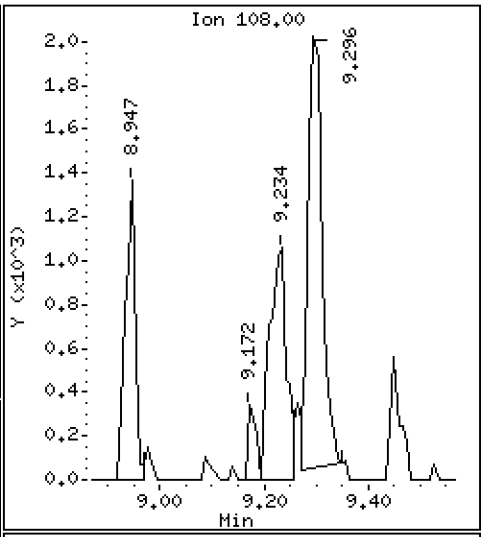
Column phase: ZB-5msi

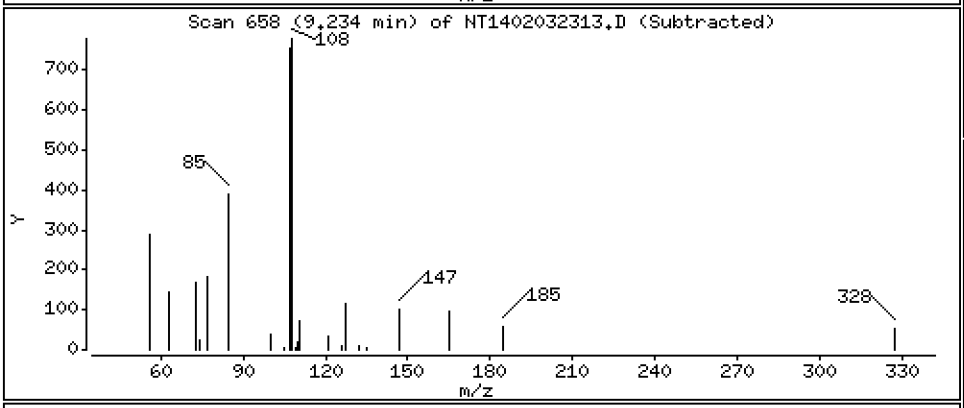
Column diameter: 0.25

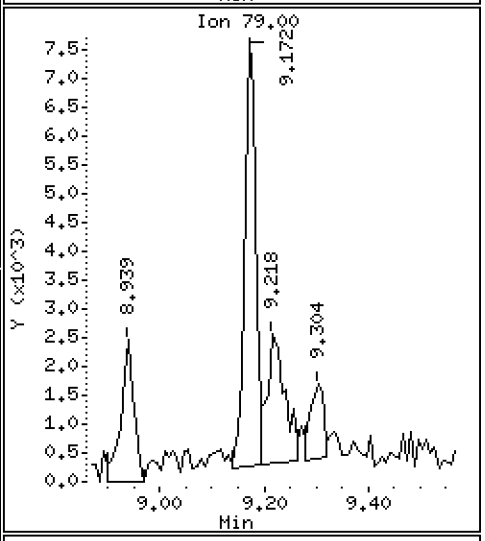
11 Benzyl alcohol

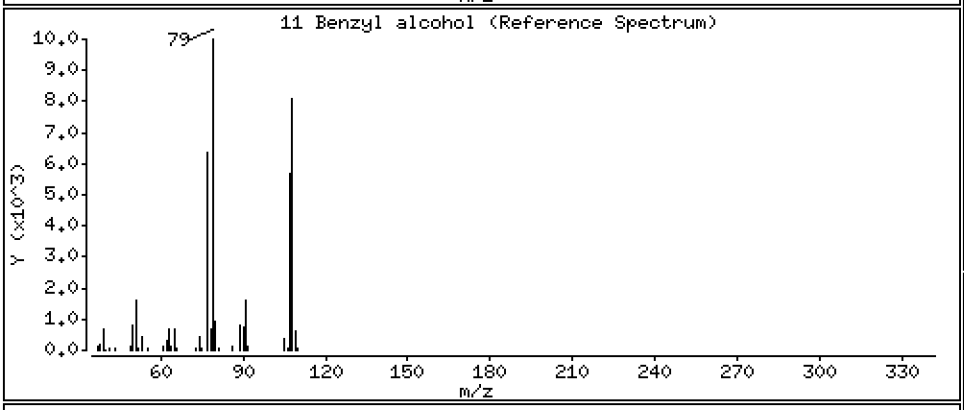
Concentration: 0.1912 ug/mL

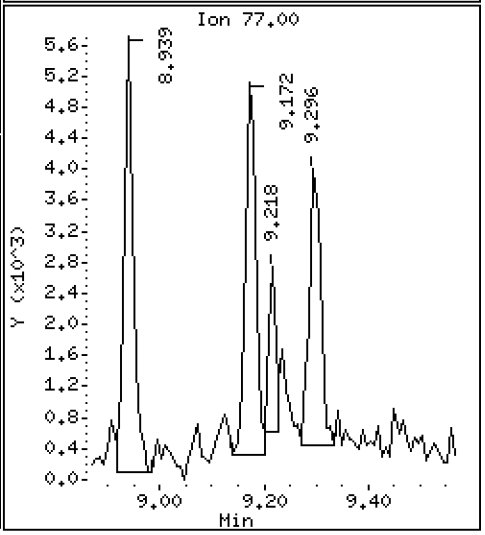


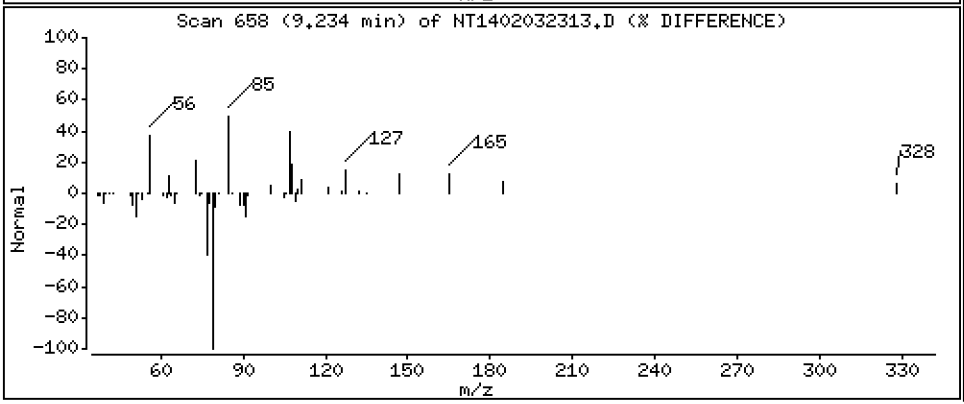












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

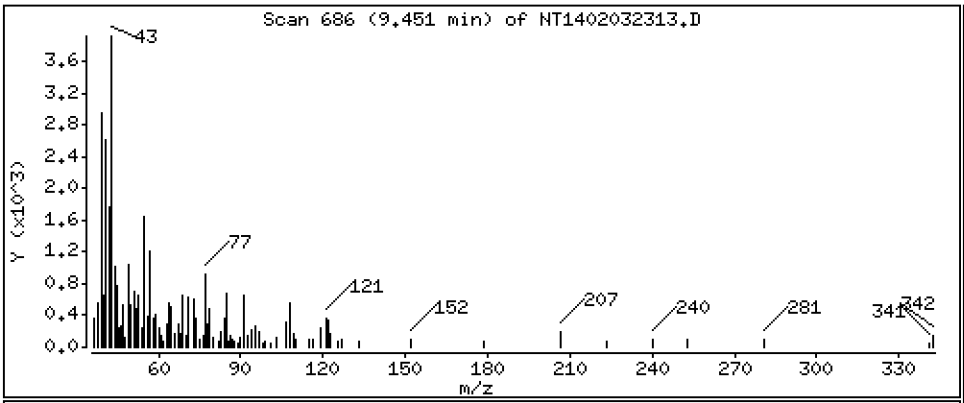
Operator: DSD

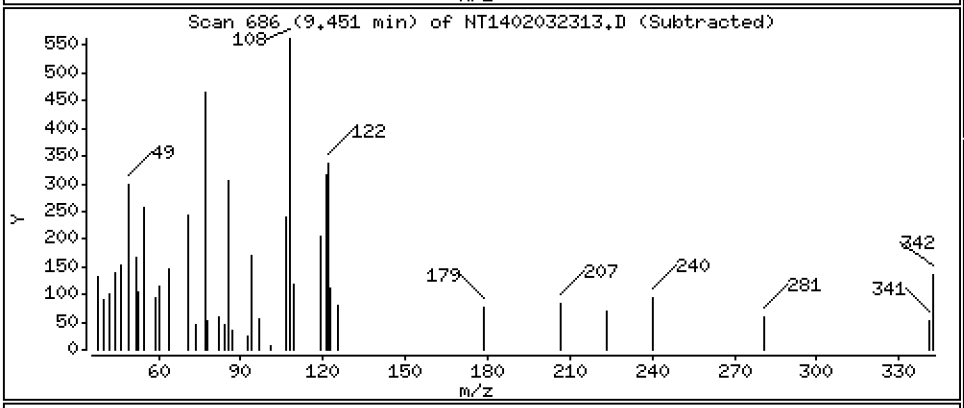
Column phase: ZB-5msi

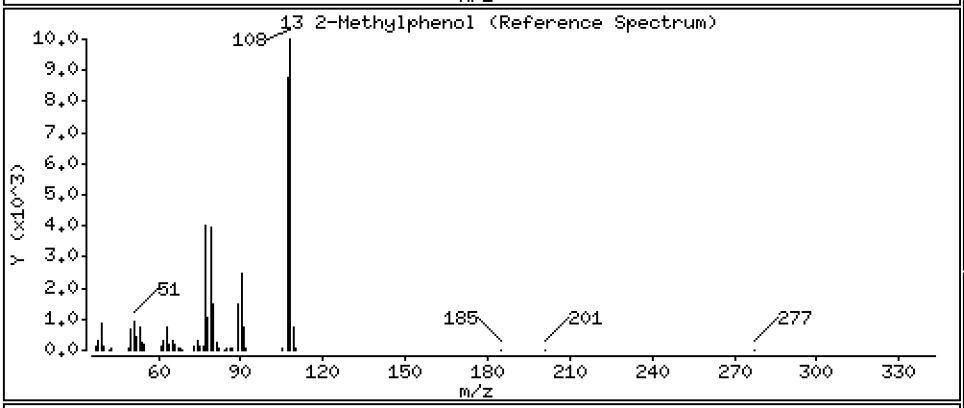
Column diameter: 0.25

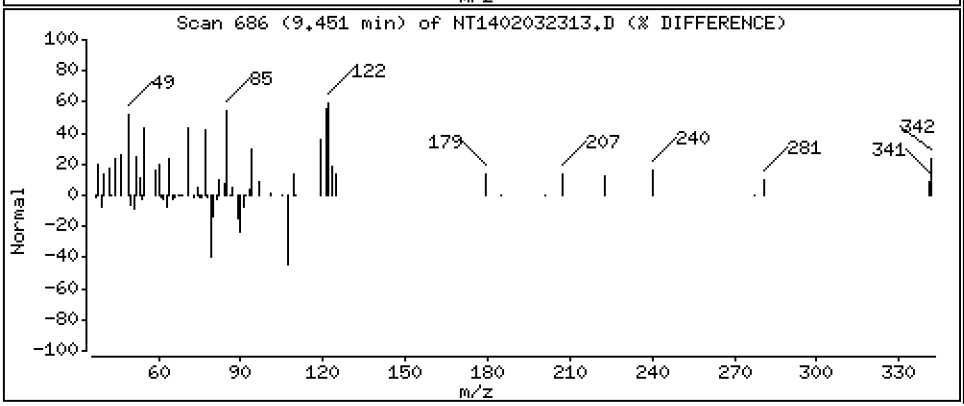
13 2-Methylphenol

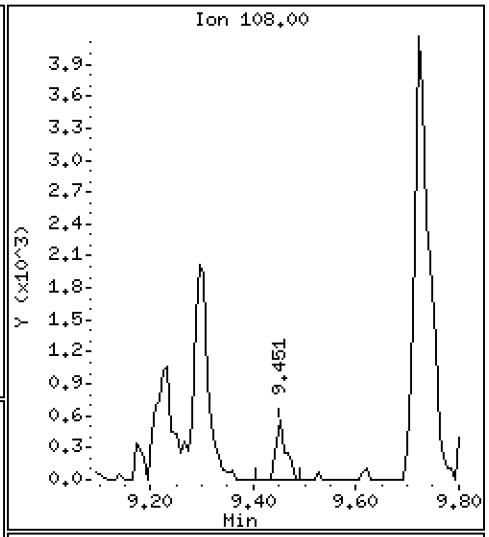
Concentration: 0.03529 ug/mL

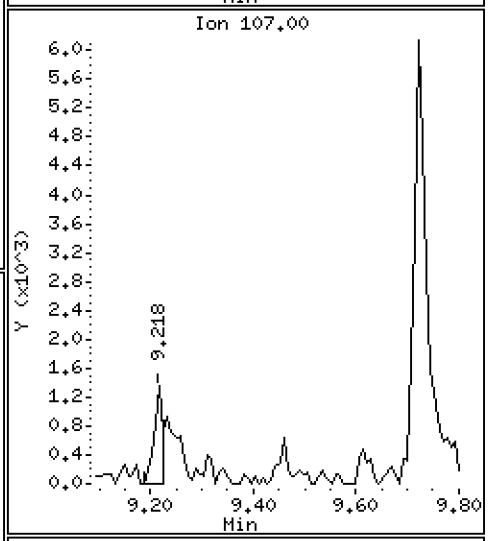


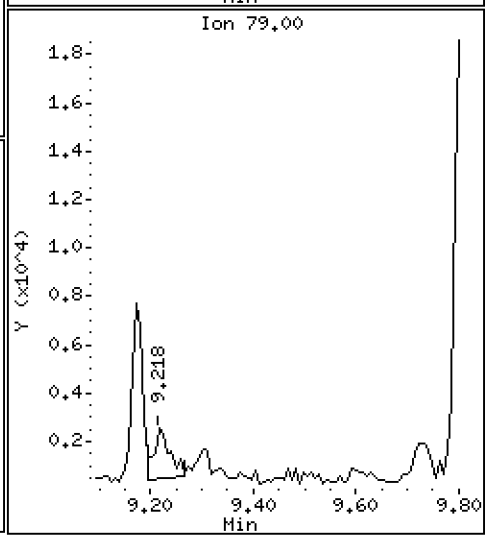












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032313.D

Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

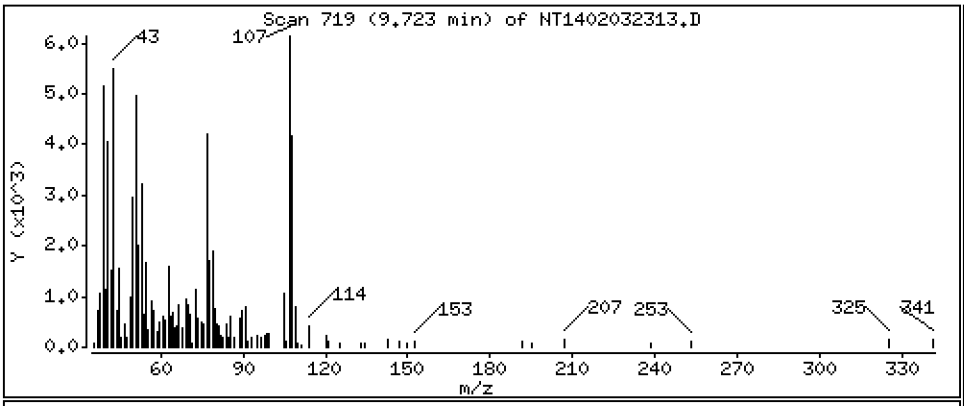
Operator: DSD

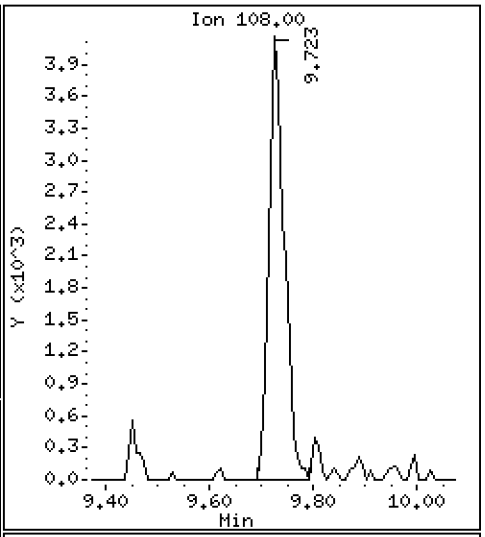
Column phase: ZB-5msi

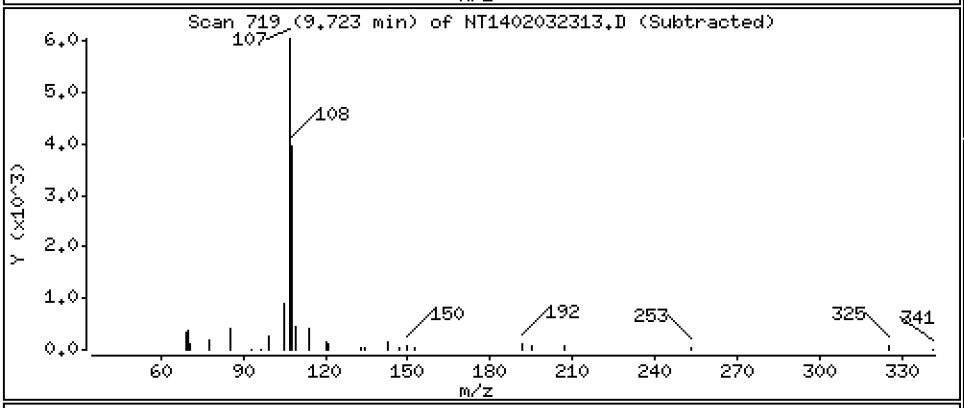
Column diameter: 0.25

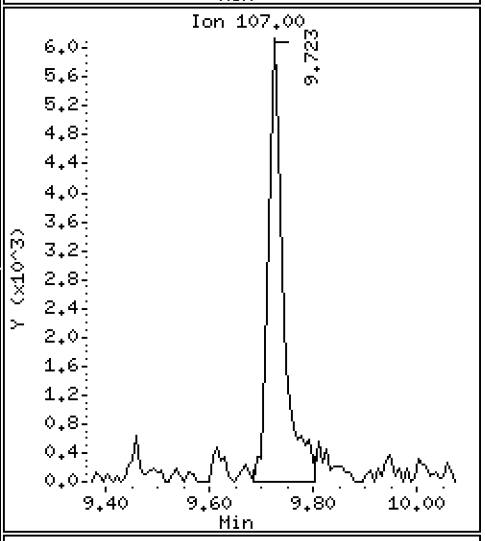
15 4-Methylphenol

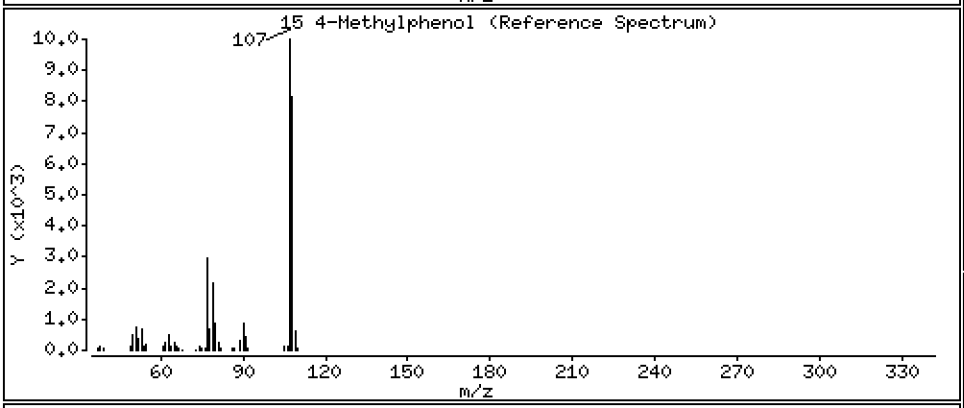
Concentration: 0.3818 ug/mL

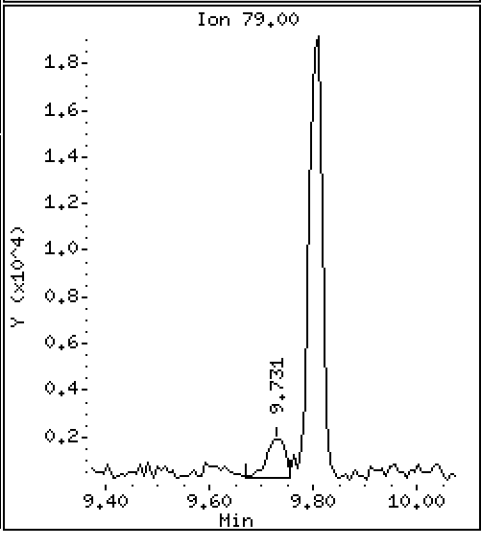


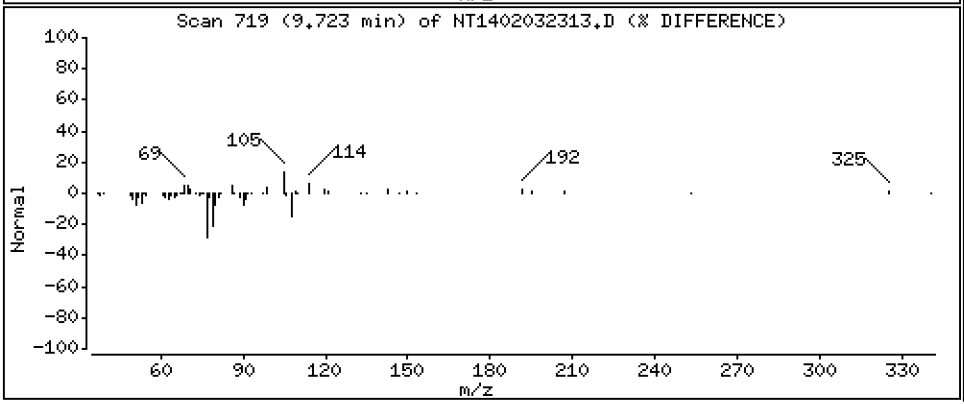












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032313.D

Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

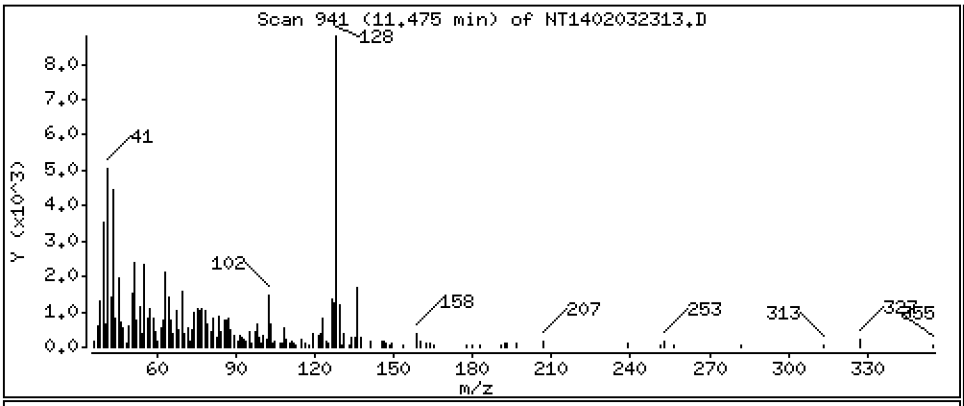
Operator: DSD

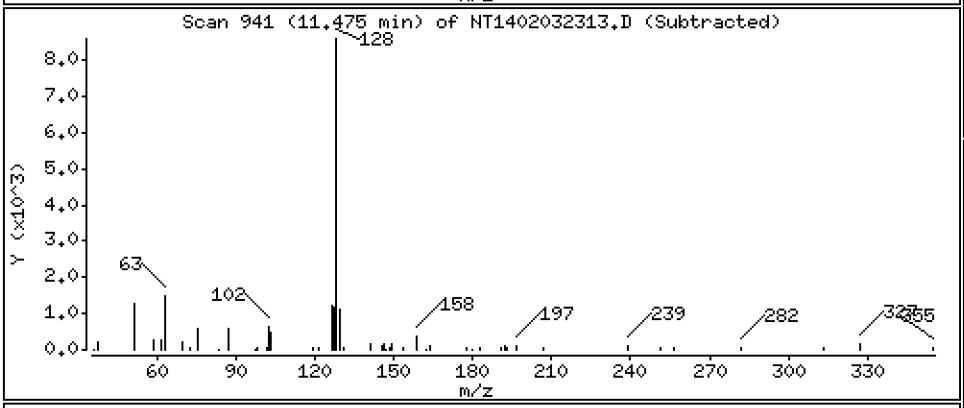
Column phase: ZB-5msi

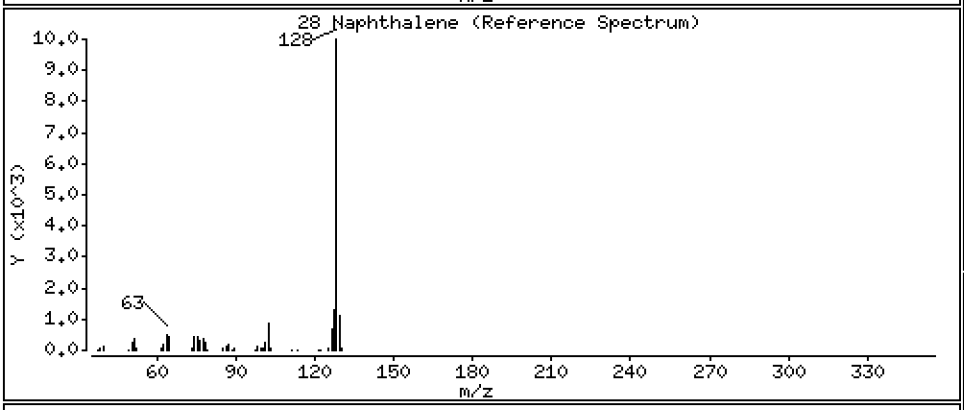
Column diameter: 0.25

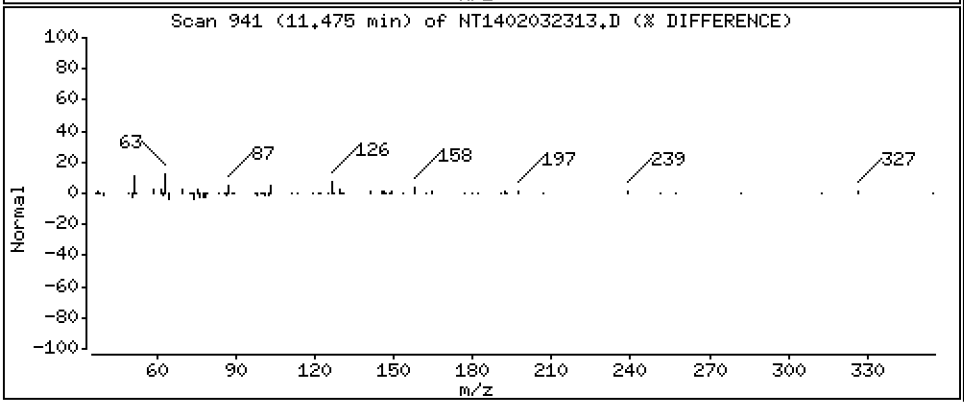
28 Naphthalene

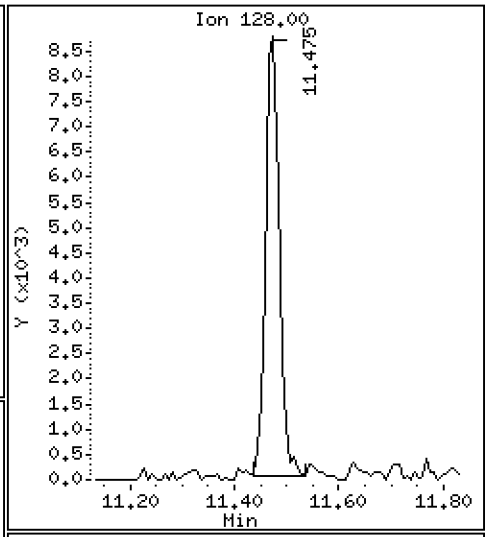
Concentration: 0.2502 ug/mL

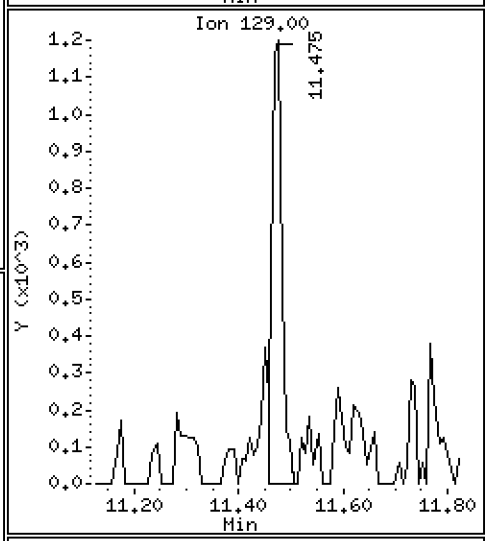


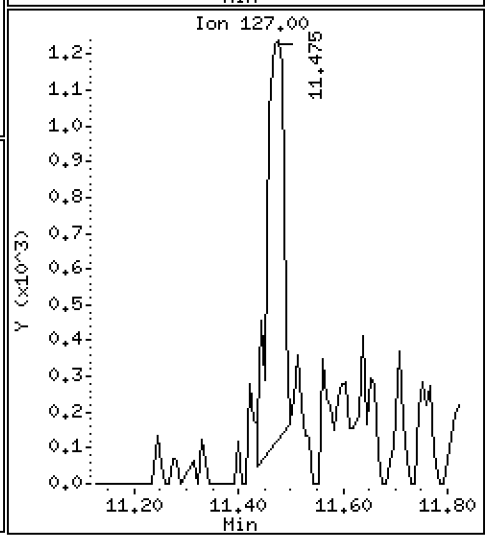












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

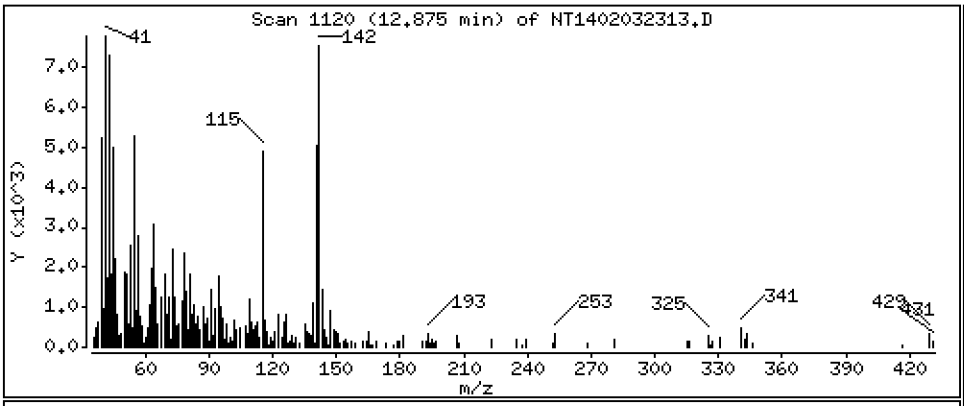
Operator: DSD

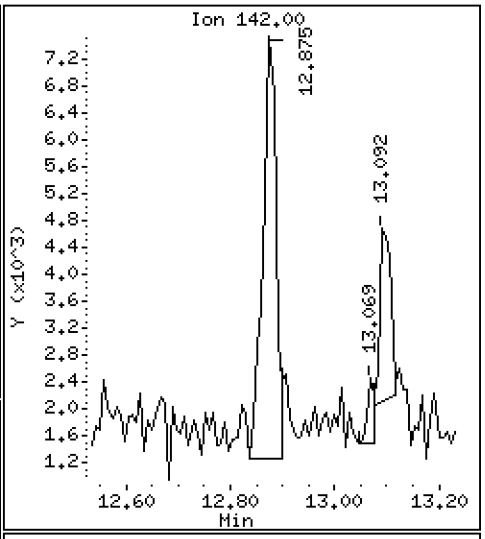
Column phase: ZB-5msi

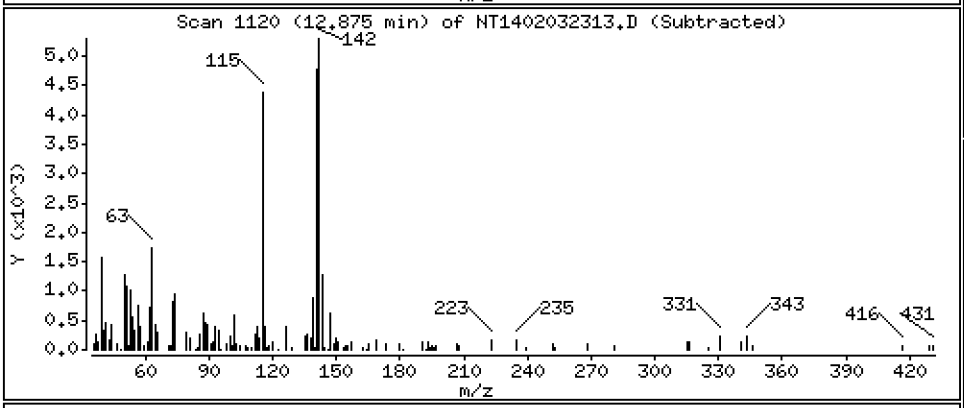
Column diameter: 0.25

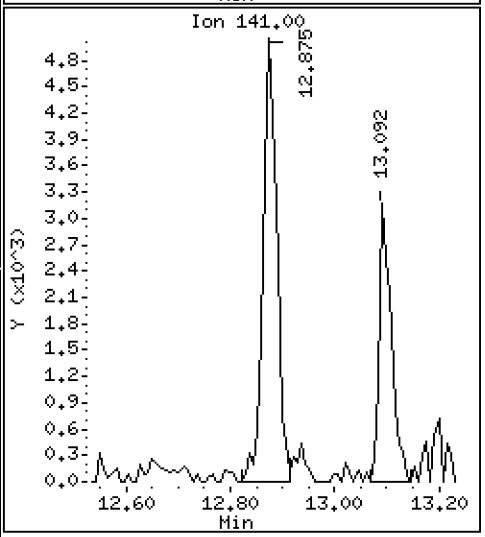
32 2-Methylnaphthalene

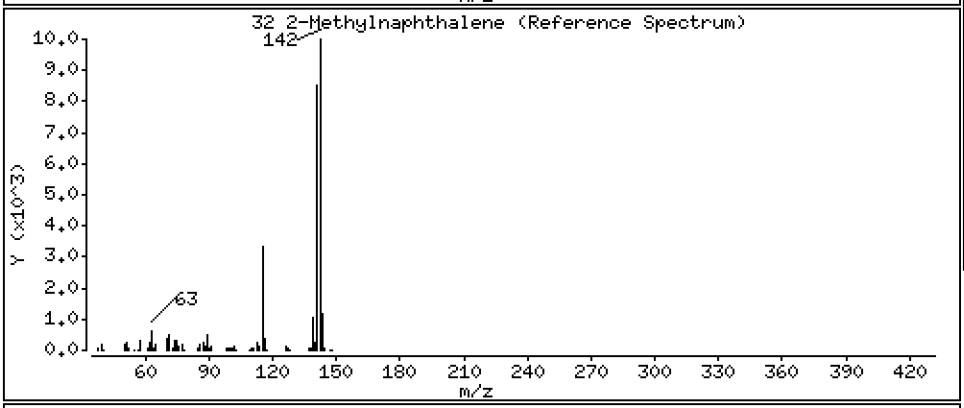
Concentration: 0.2150 ug/mL

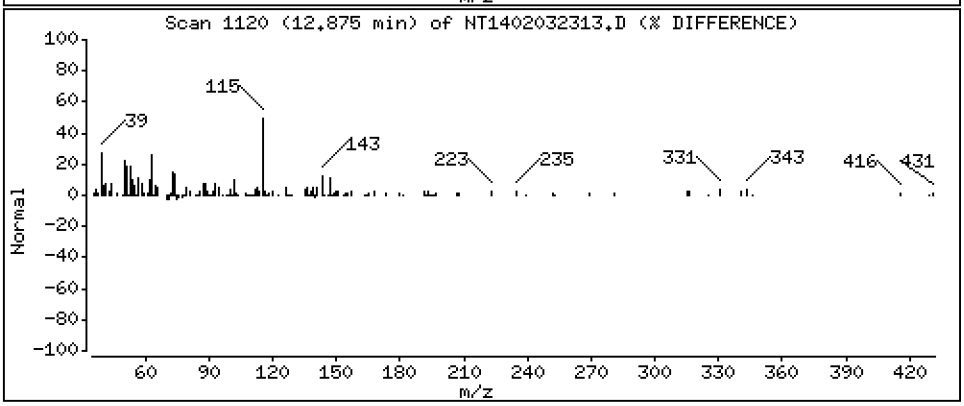












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032313.D

Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

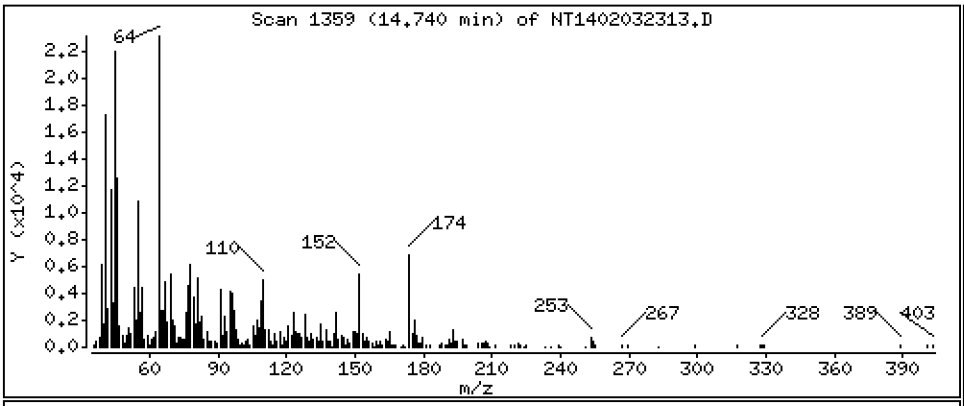
Operator: DSD

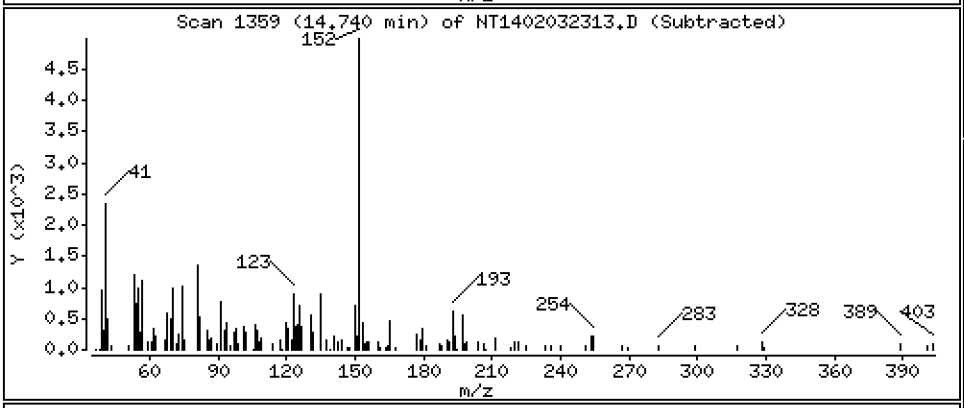
Column phase: ZB-5msi

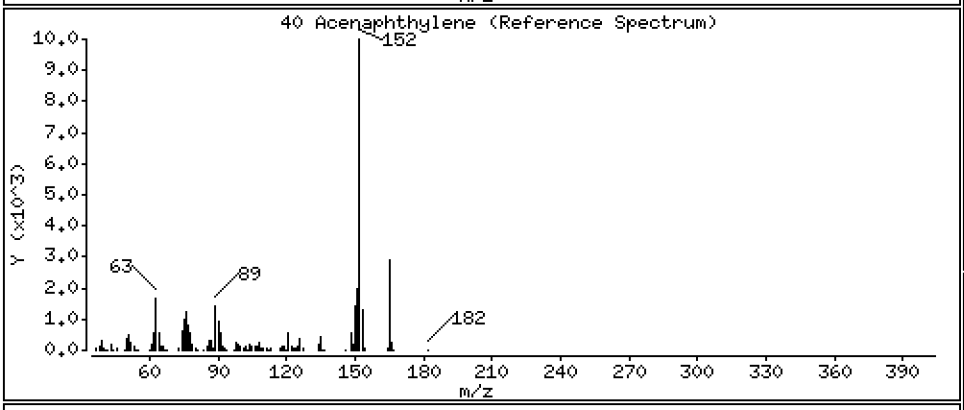
Column diameter: 0.25

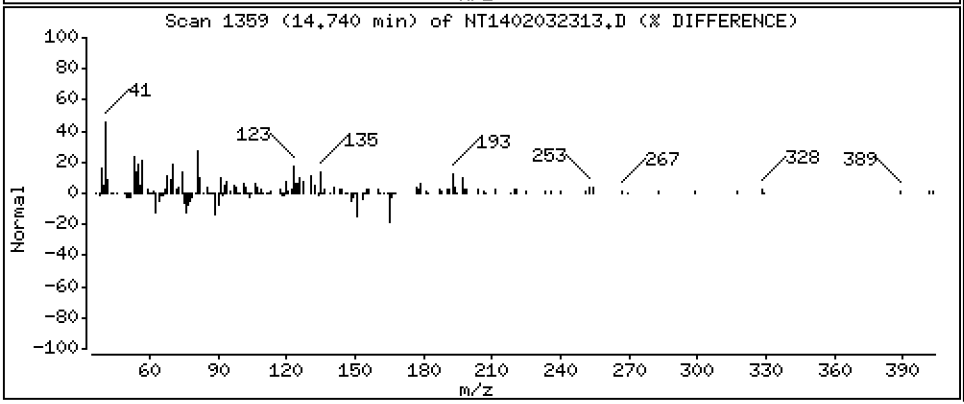
40 Acenaphthylene

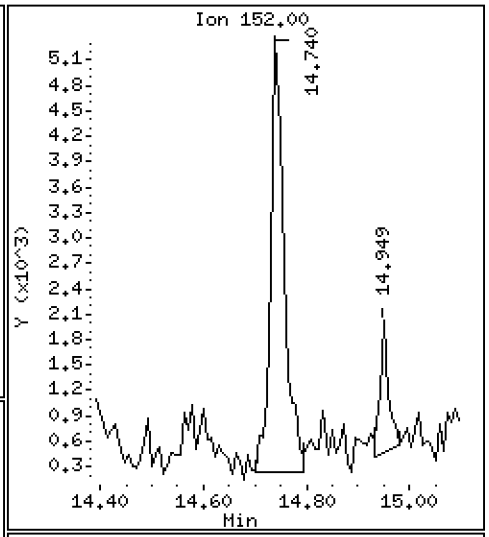
Concentration: 0.1254 ug/mL

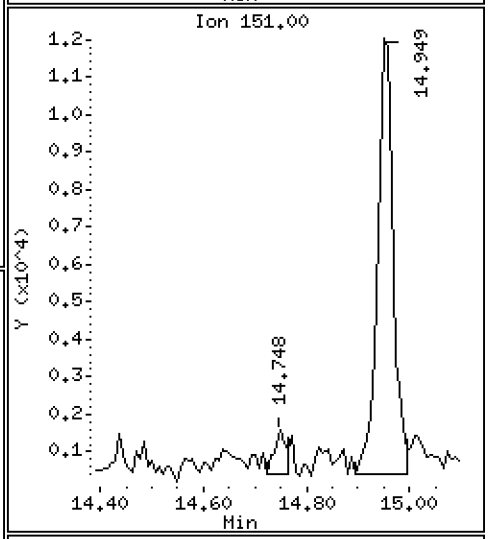


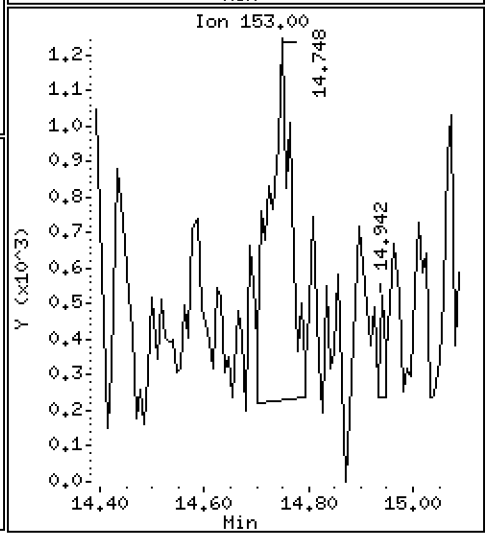












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

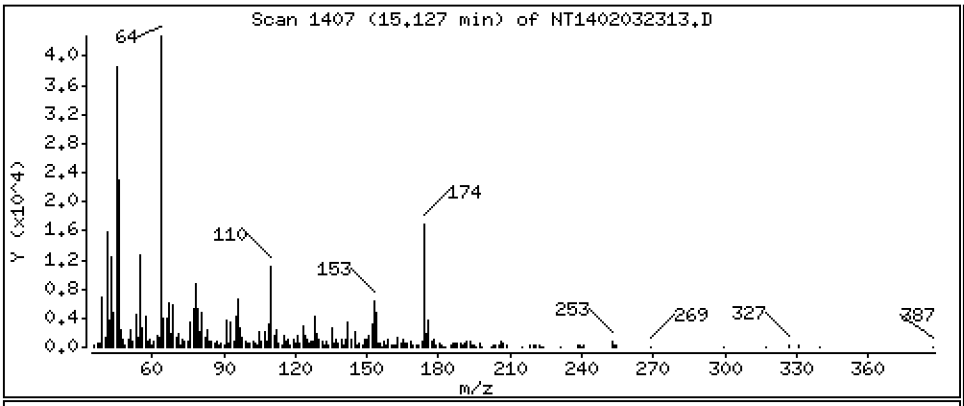
Operator: DSD

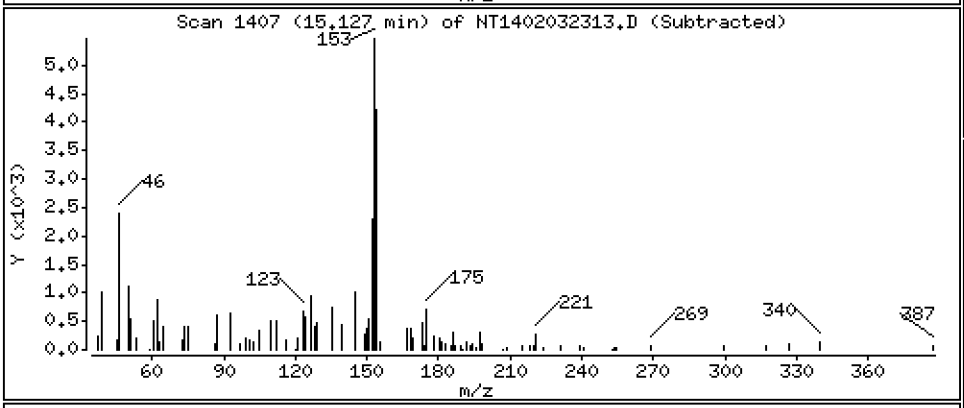
Column phase: ZB-5msi

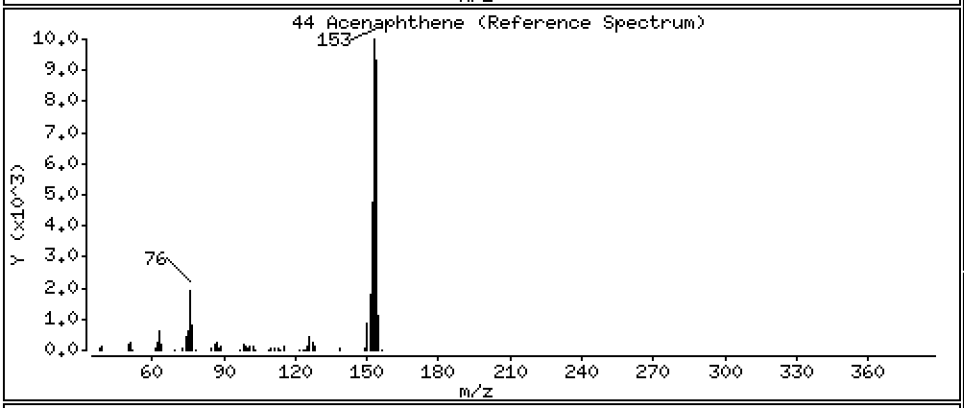
Column diameter: 0.25

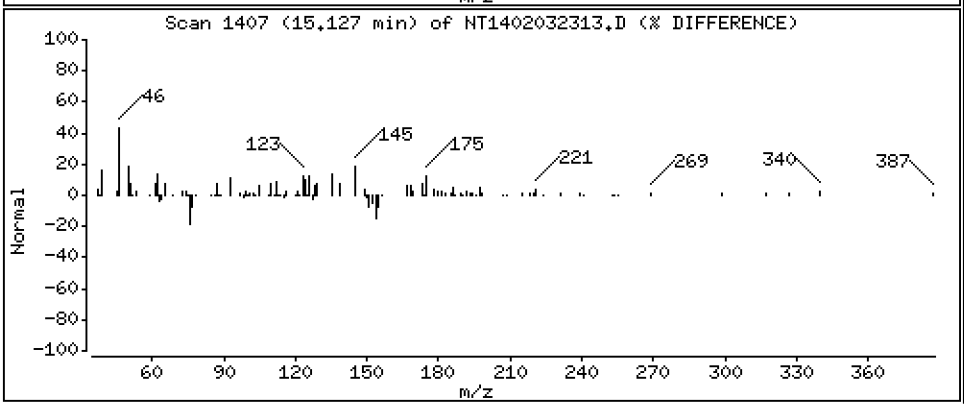
44 Acenaphthene

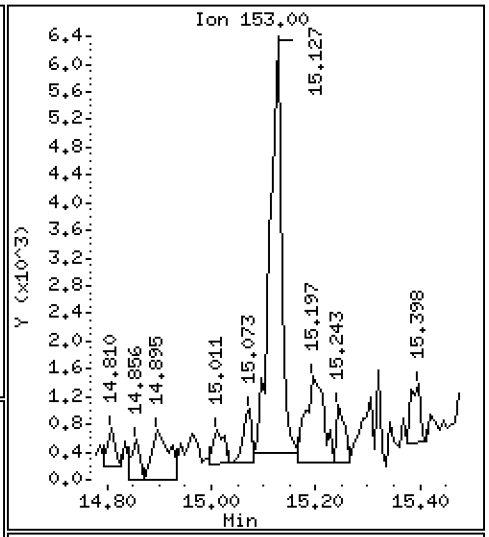
Concentration: 0.1828 ug/mL

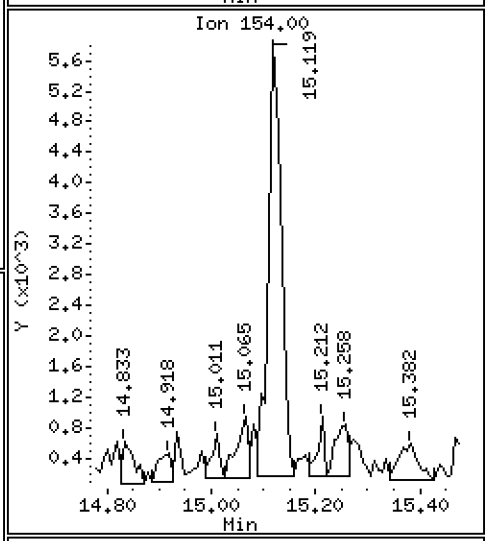


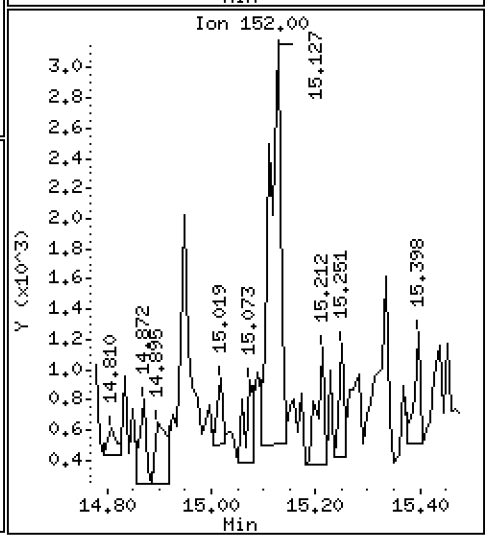












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

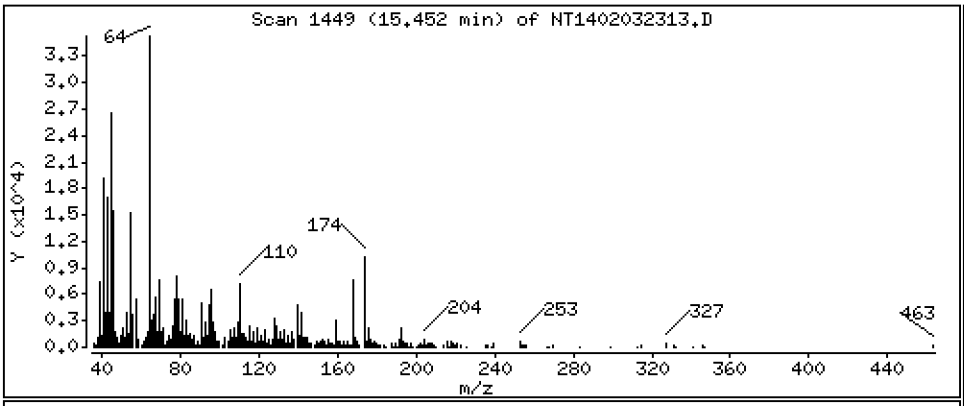
Operator: DSD

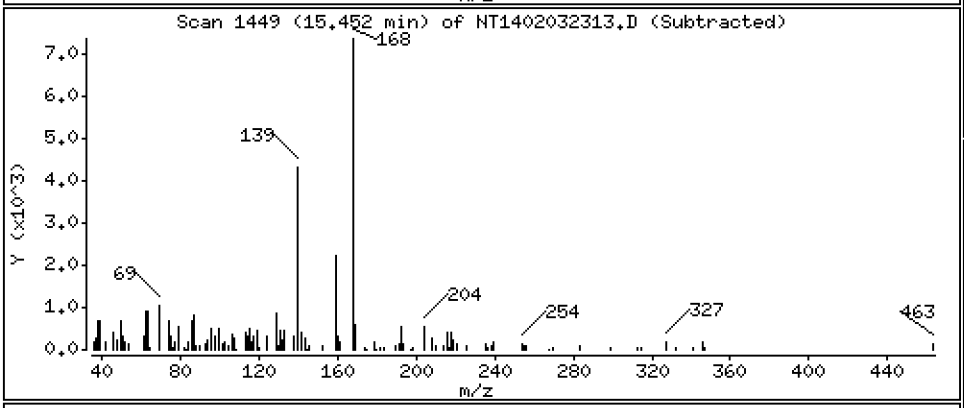
Column phase: ZB-5msi

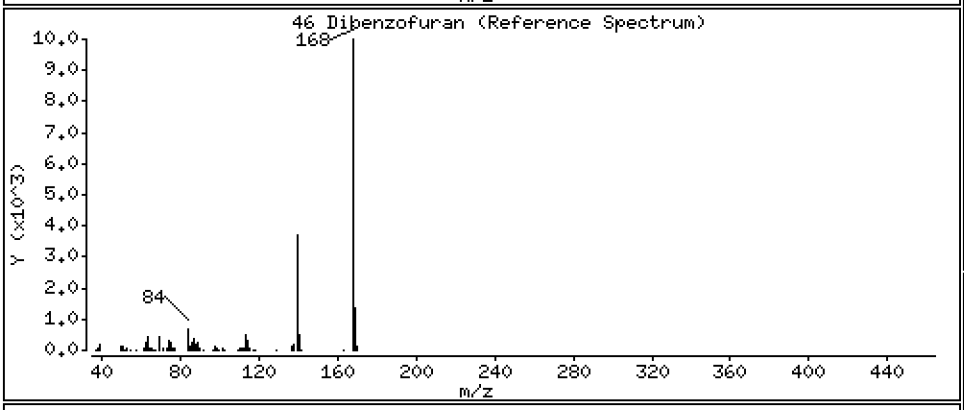
Column diameter: 0.25

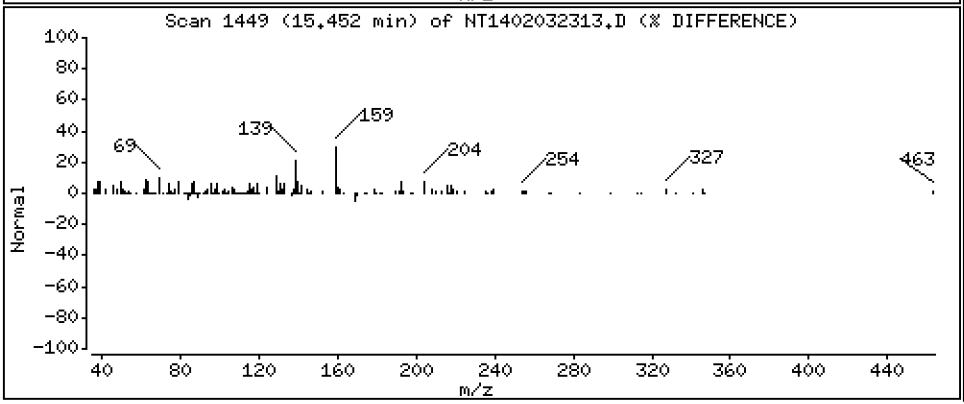
46 Dibenzofuran

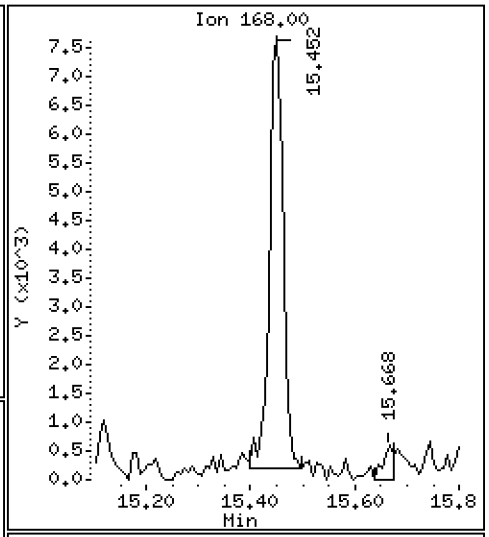
Concentration: 0.1869 ug/mL

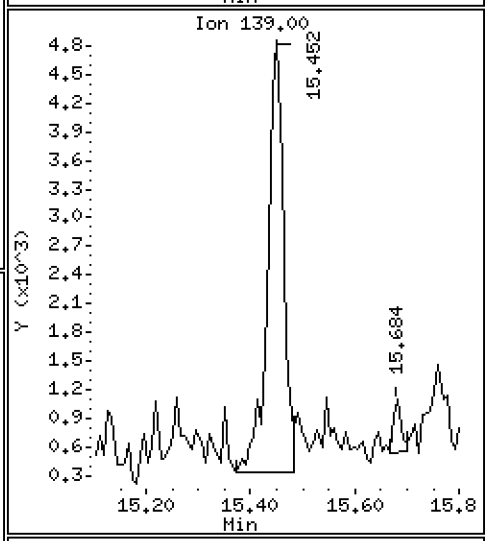


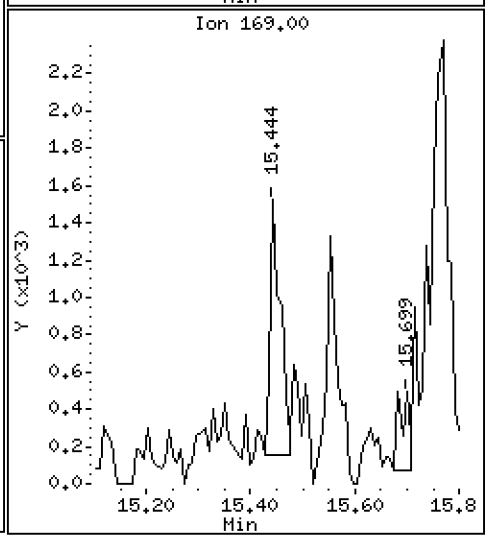












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

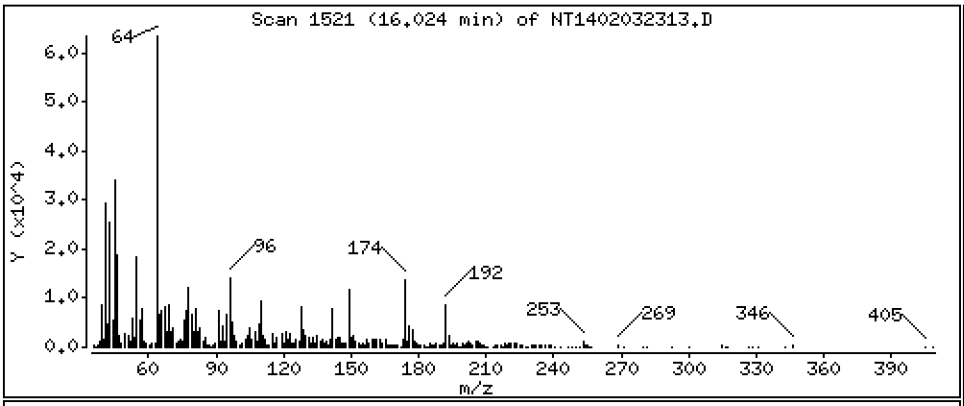
Operator: DSD

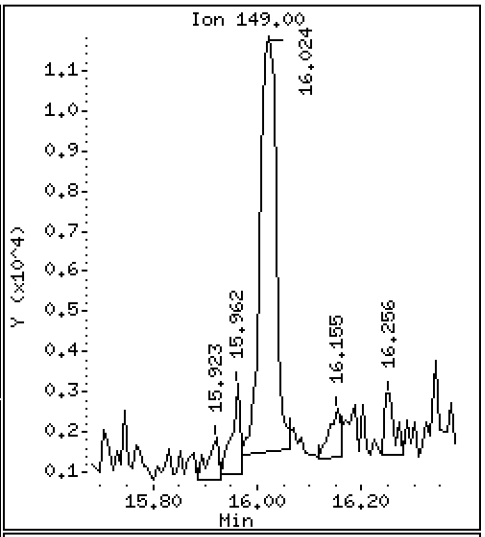
Column phase: ZB-5msi

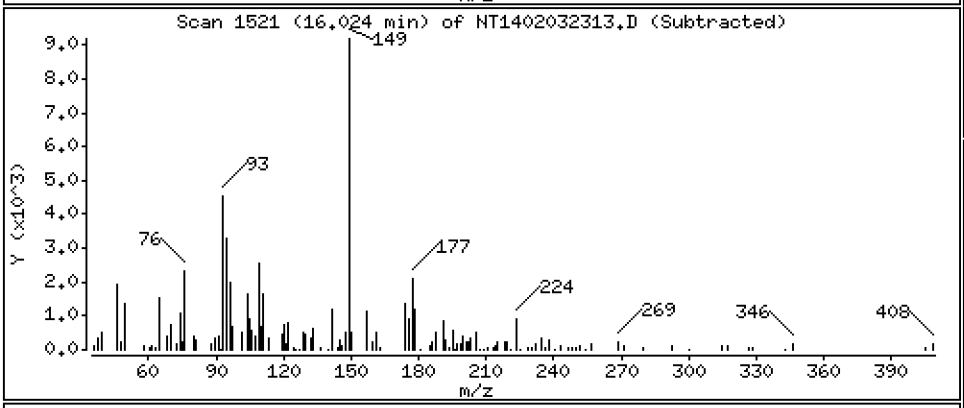
Column diameter: 0.25

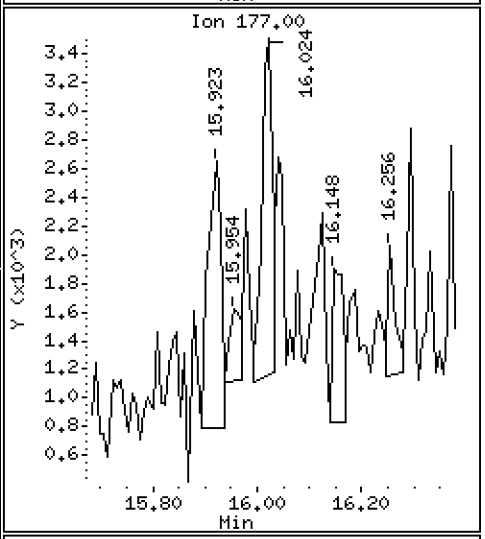
50 Diethylphthalate

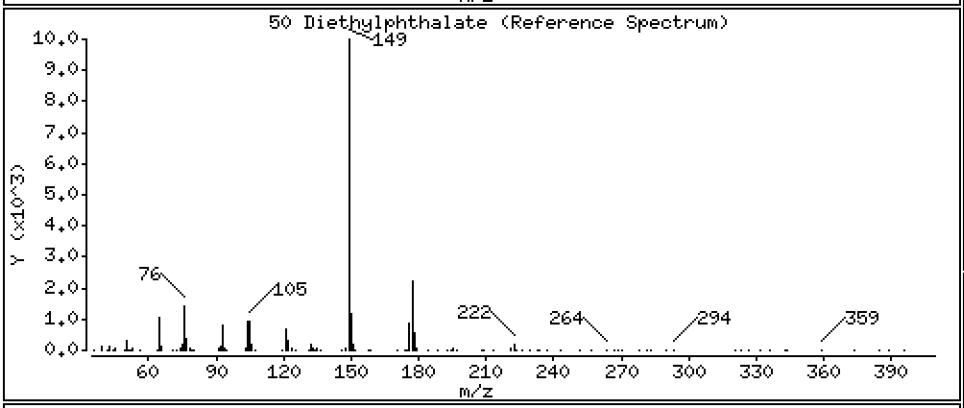
Concentration: 0.2513 ug/mL

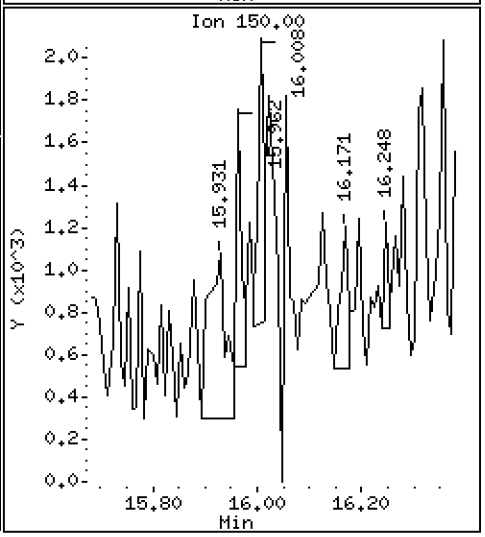


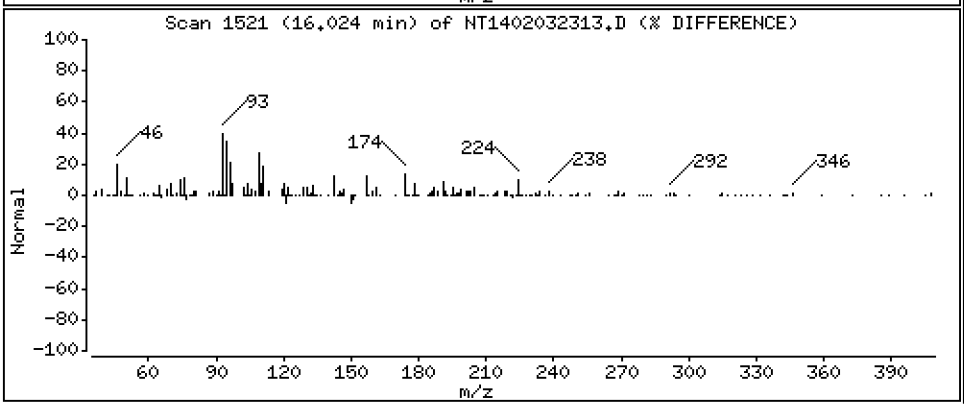












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

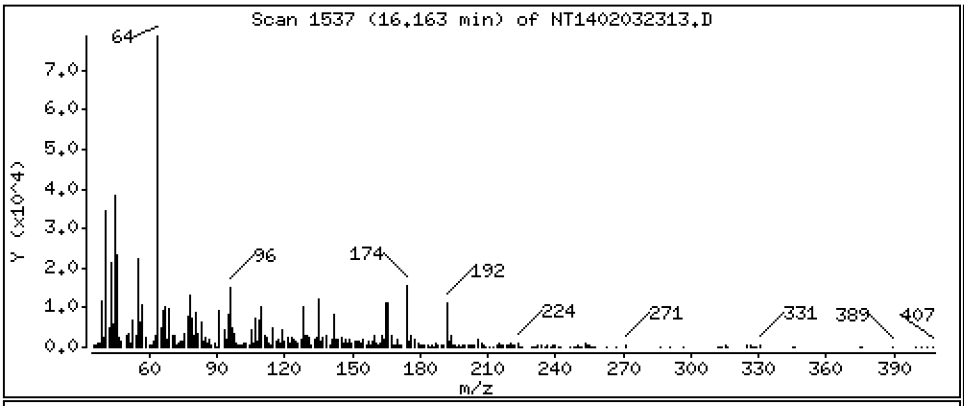
Operator: DSD

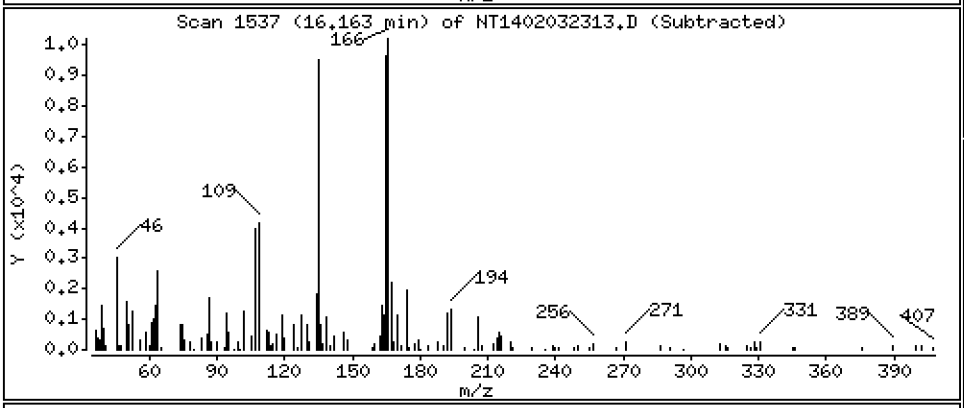
Column phase: ZB-5msi

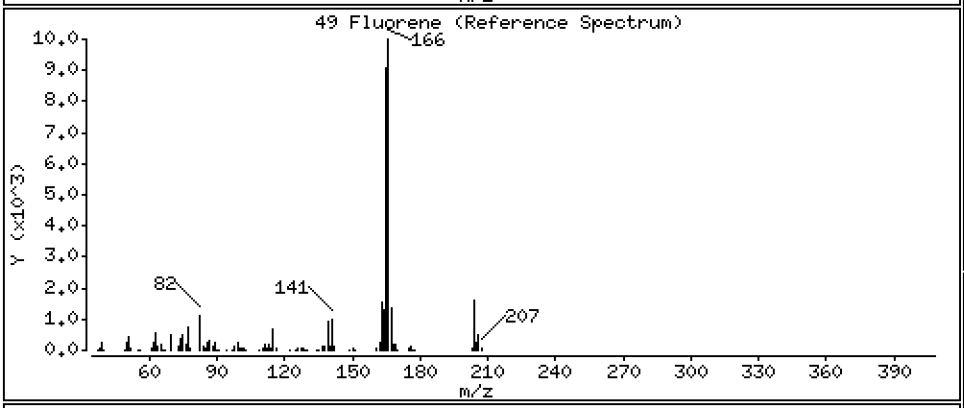
Column diameter: 0.25

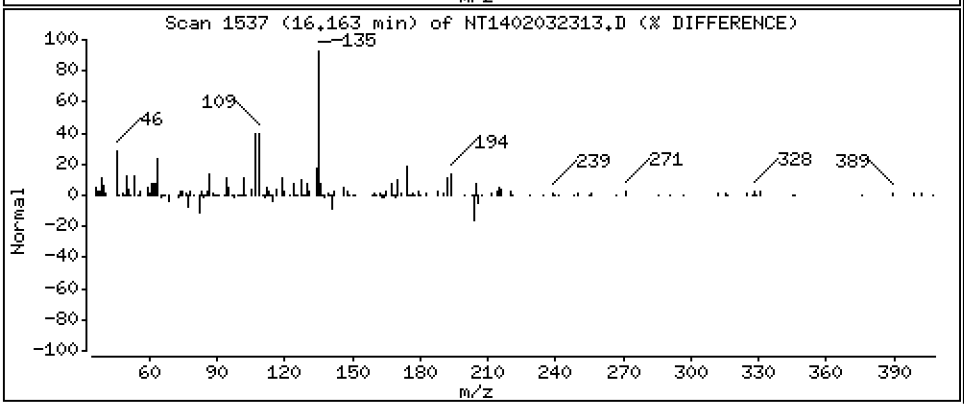
49 Fluorene

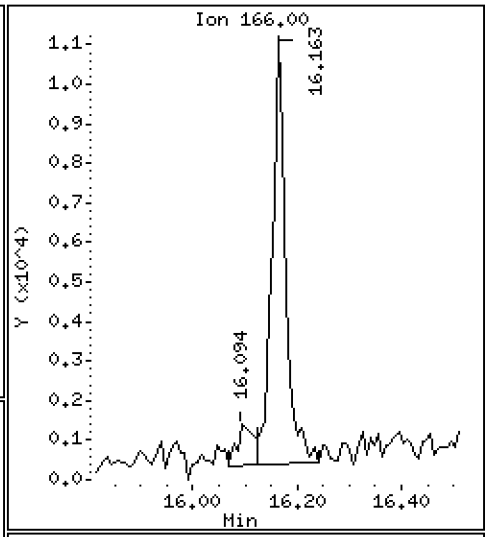
Concentration: 0.2307 ug/mL

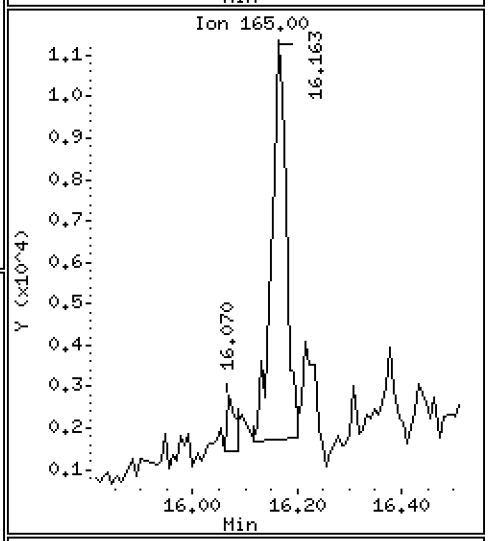


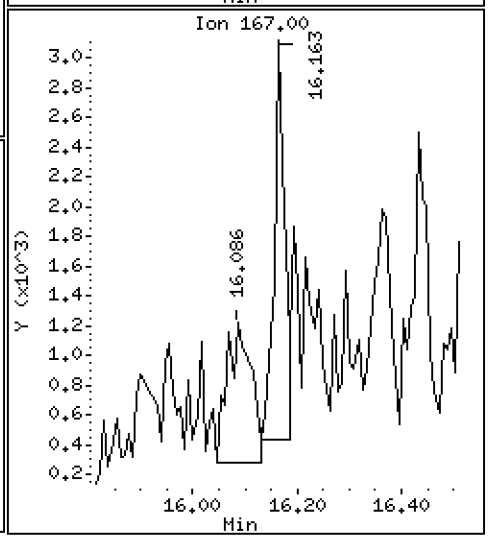












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

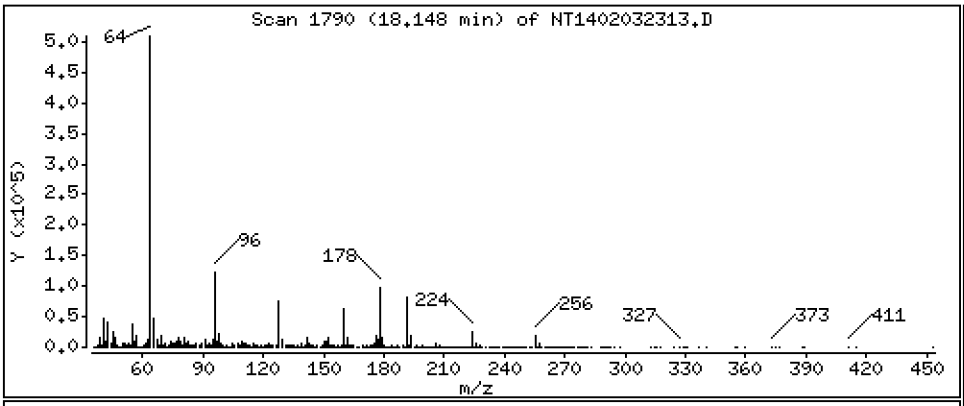
Operator: DSD

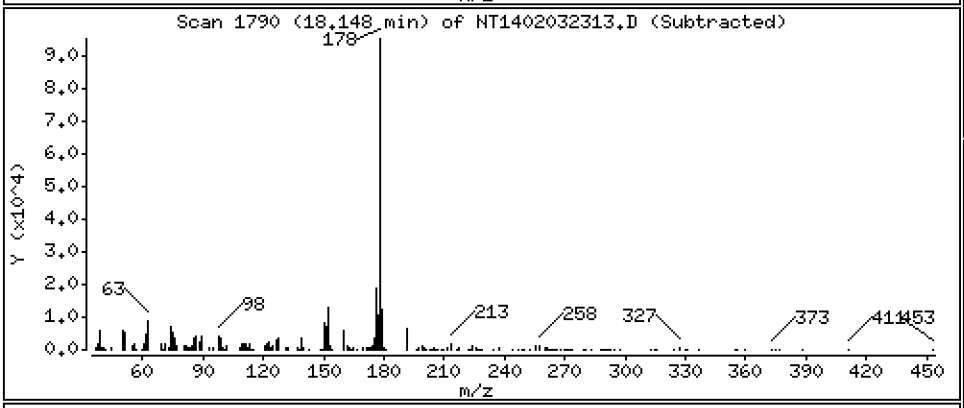
Column phase: ZB-5msi

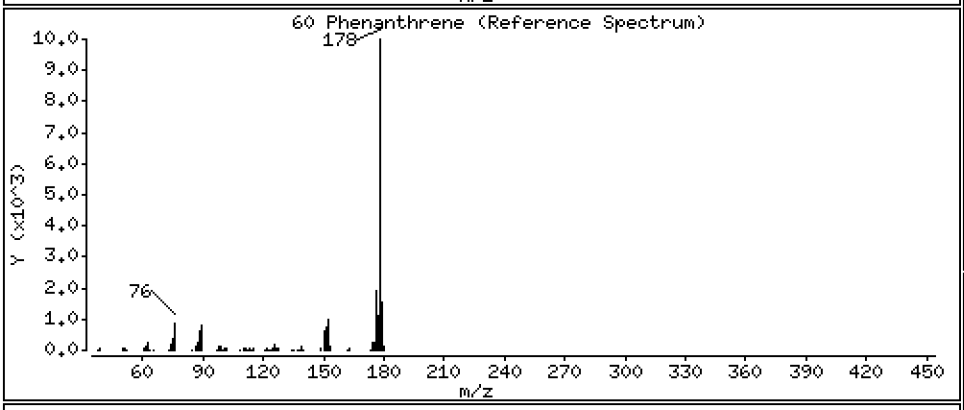
Column diameter: 0.25

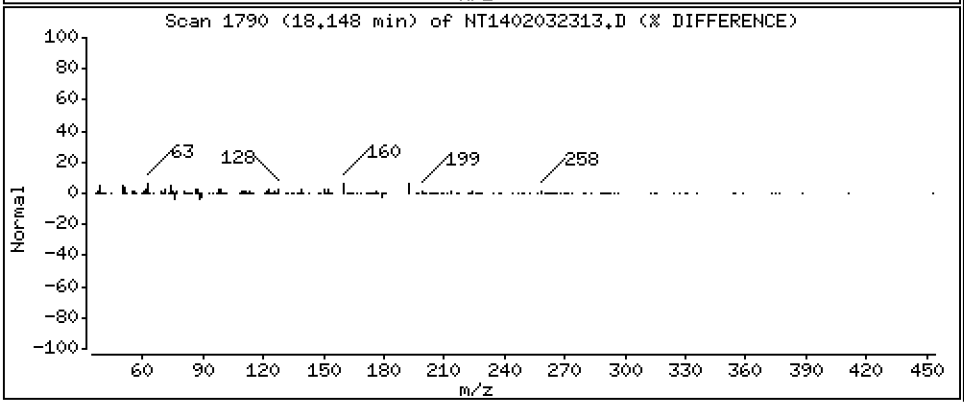
60 Phenanthrene

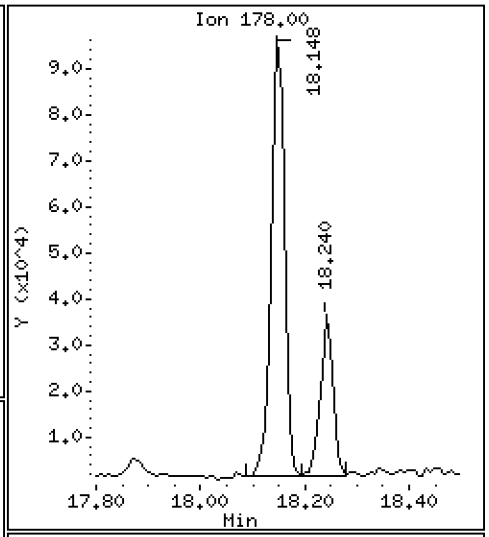
Concentration: 1.896 ug/mL

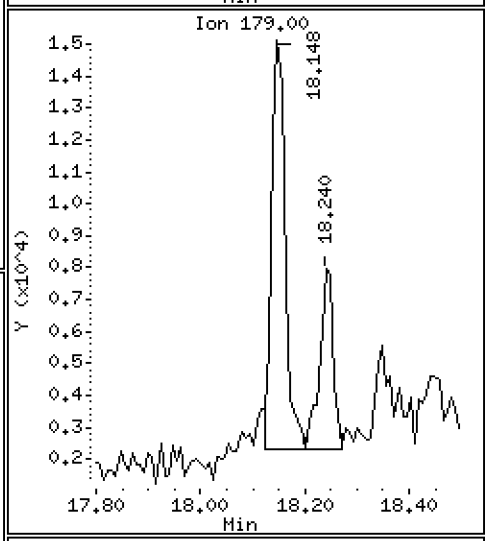


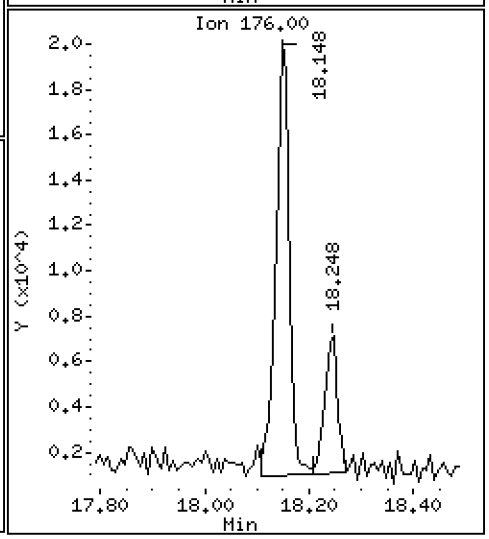












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

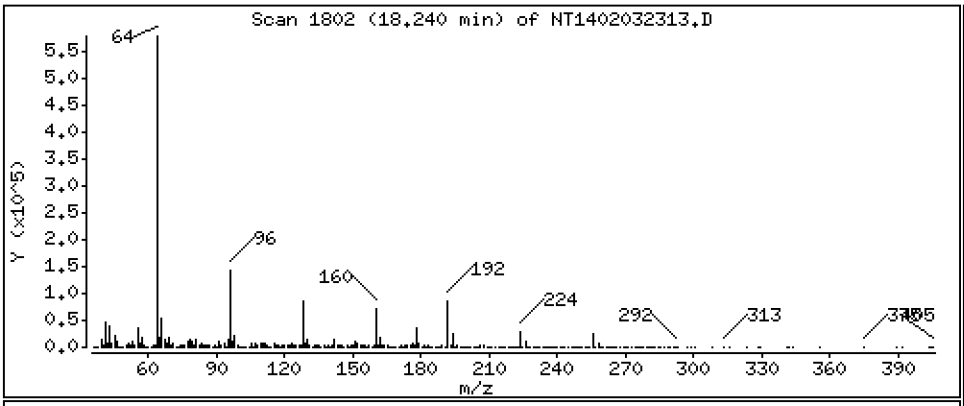
Operator: DSD

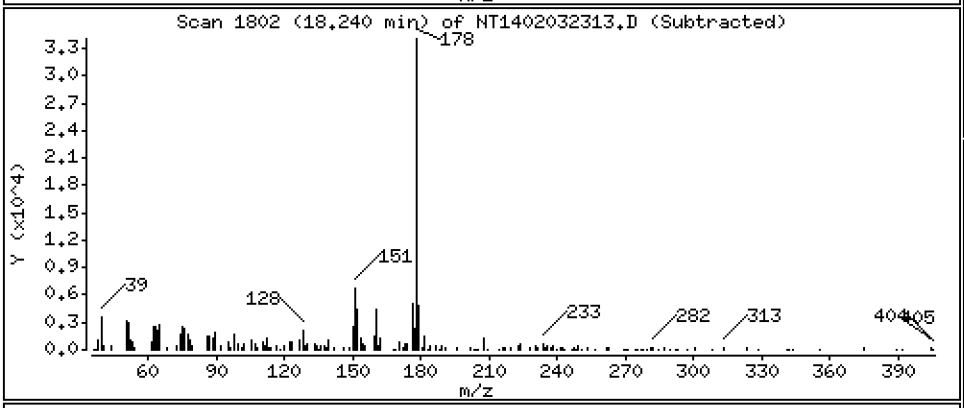
Column phase: ZB-5msi

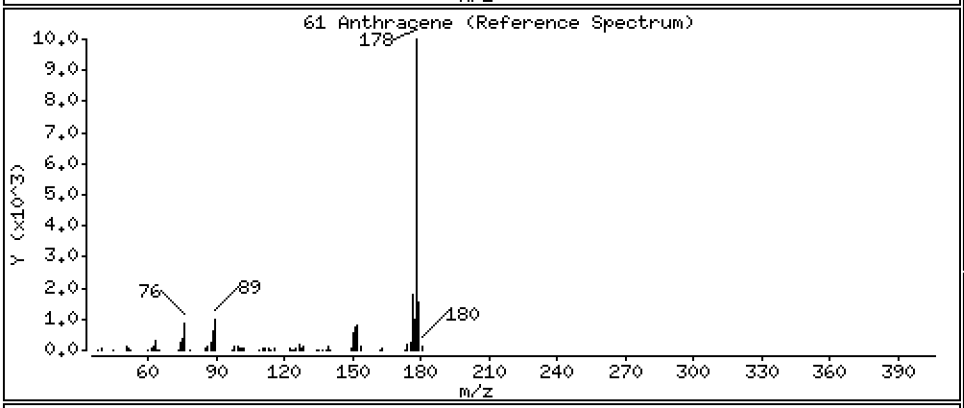
Column diameter: 0.25

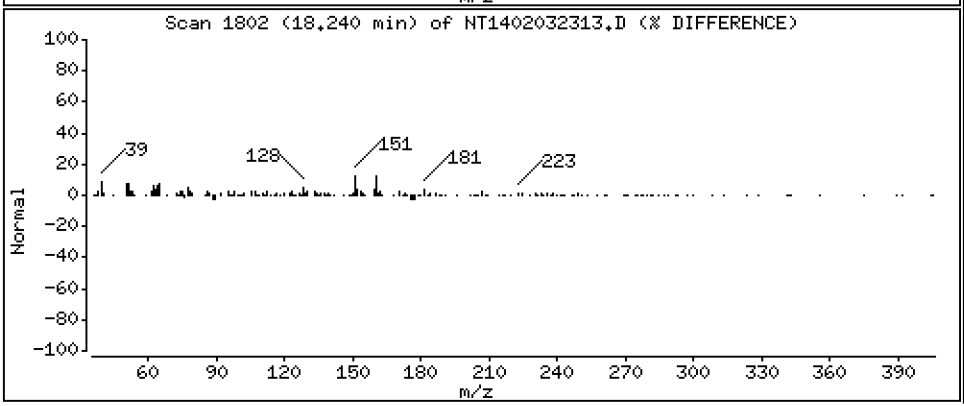
61 Anthracene

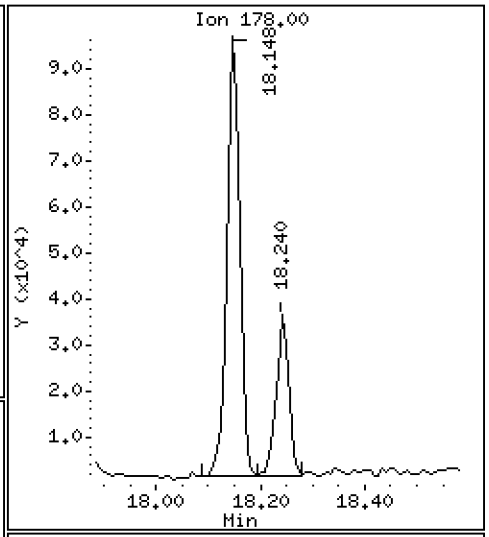
Concentration: 0.7276 ug/mL

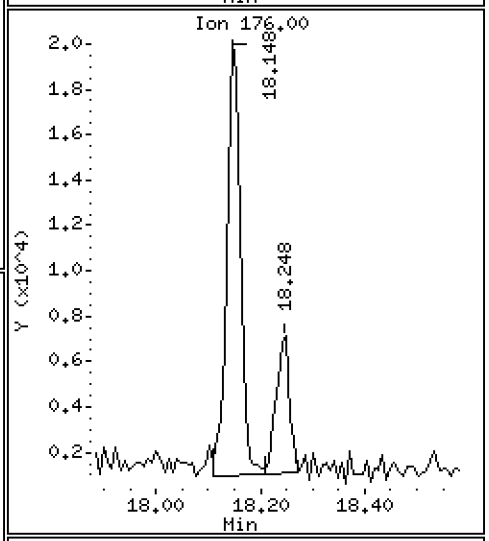


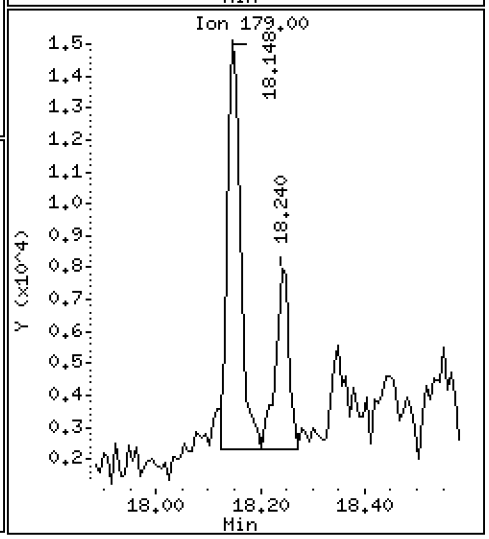












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

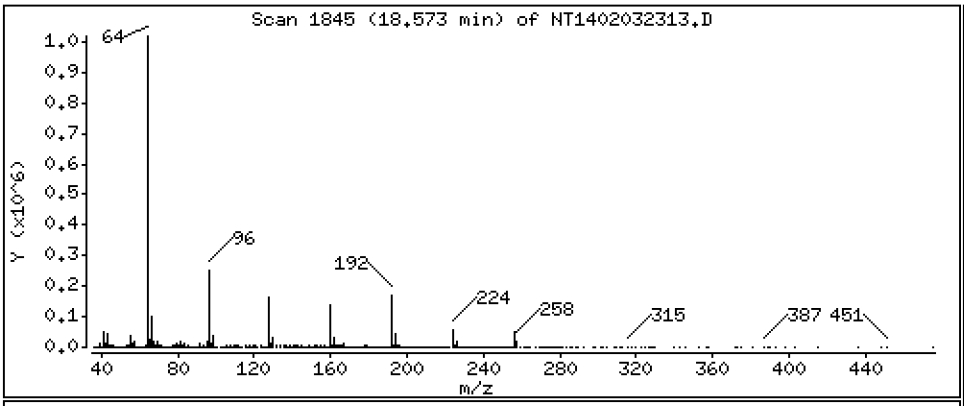
Operator: DSD

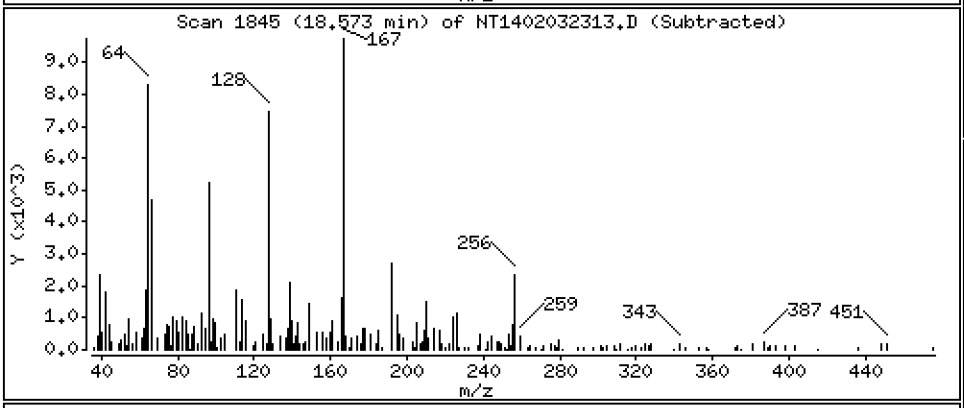
Column phase: ZB-5msi

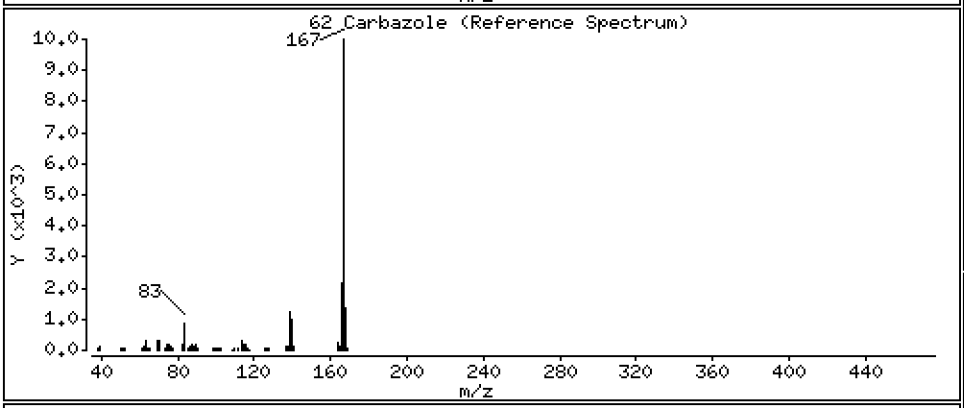
Column diameter: 0.25

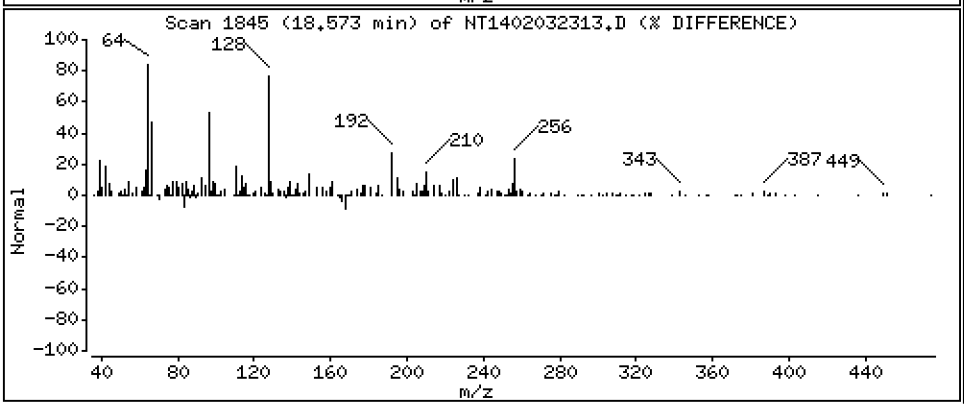
62 Carbazole

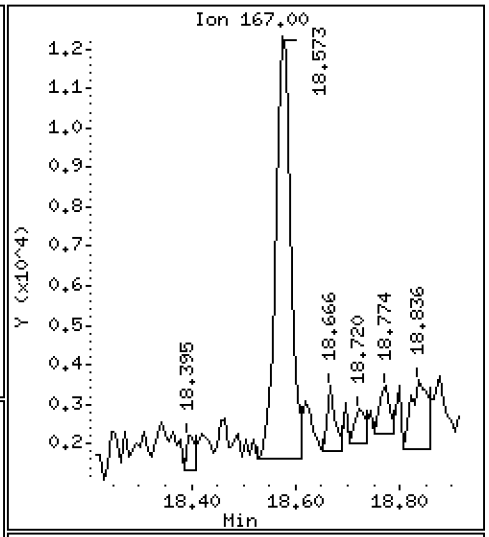
Concentration: 0.2887 ug/mL

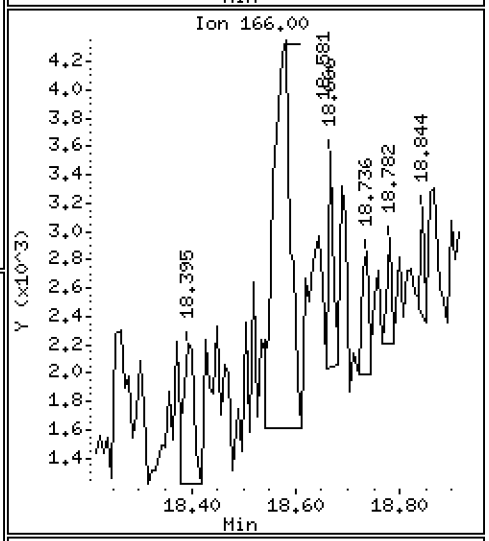


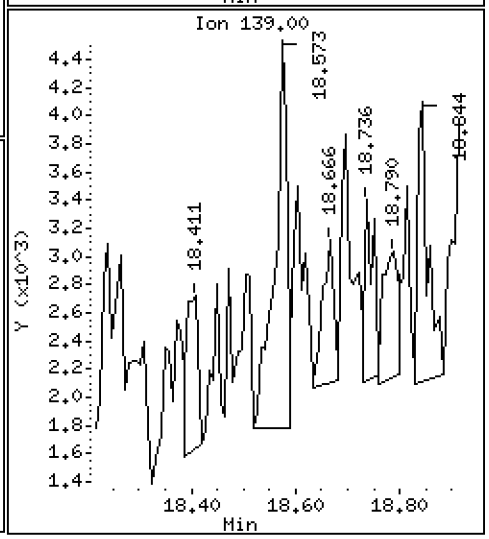












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

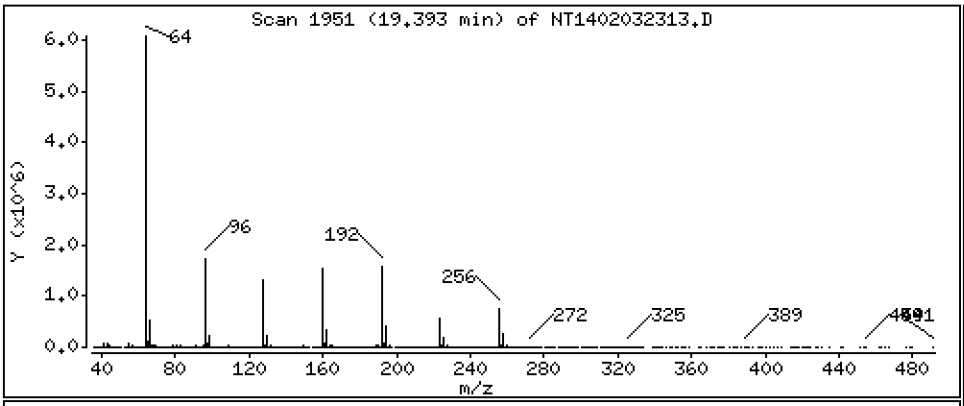
Operator: DSD

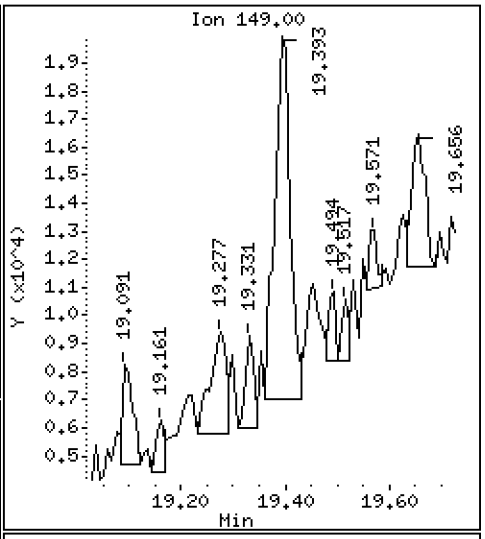
Column phase: ZB-5msi

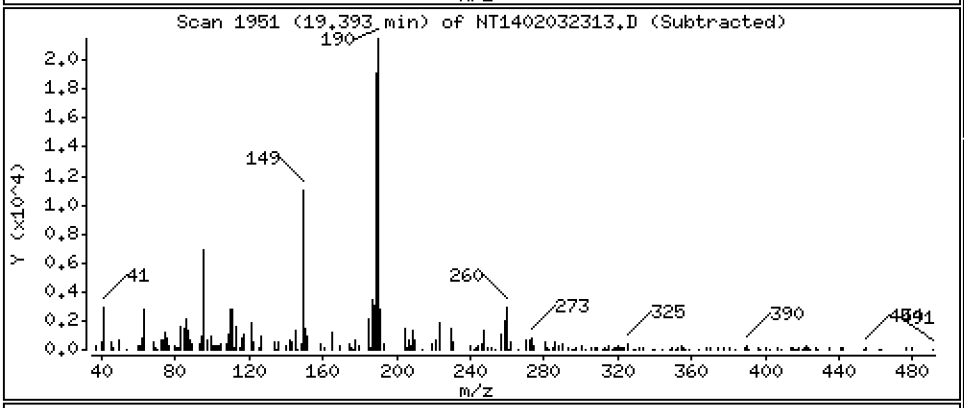
Column diameter: 0.25

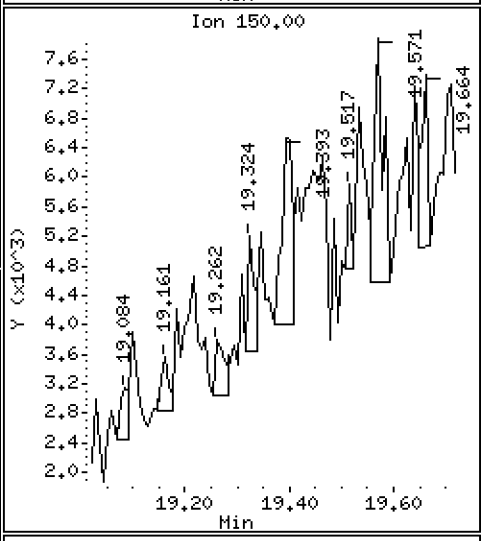
63 Di-n-butylphthalate

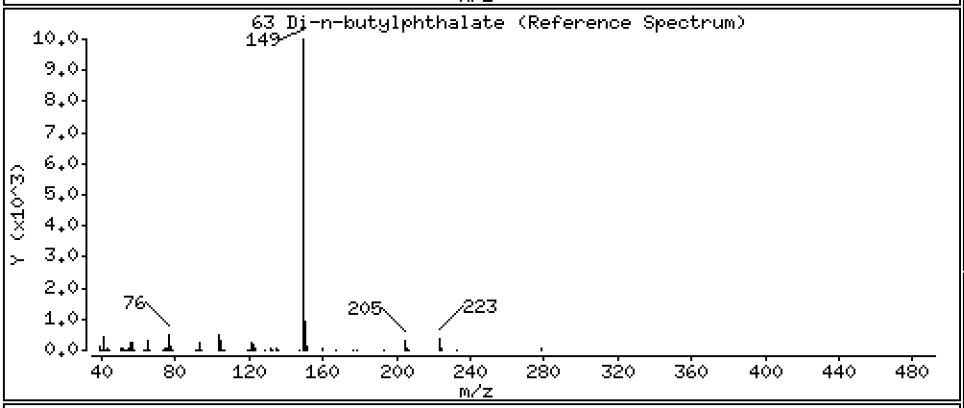
Concentration: 0.2333 ug/mL

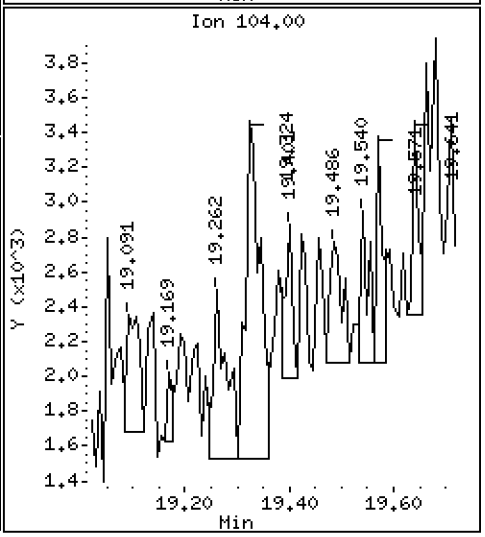


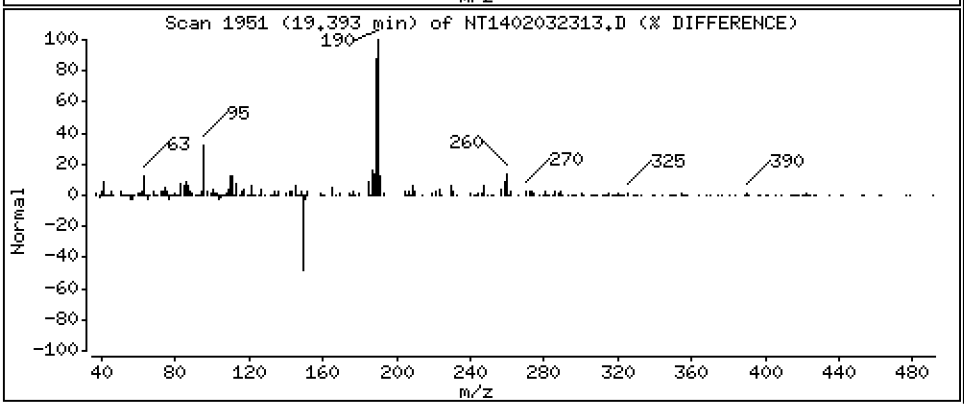












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

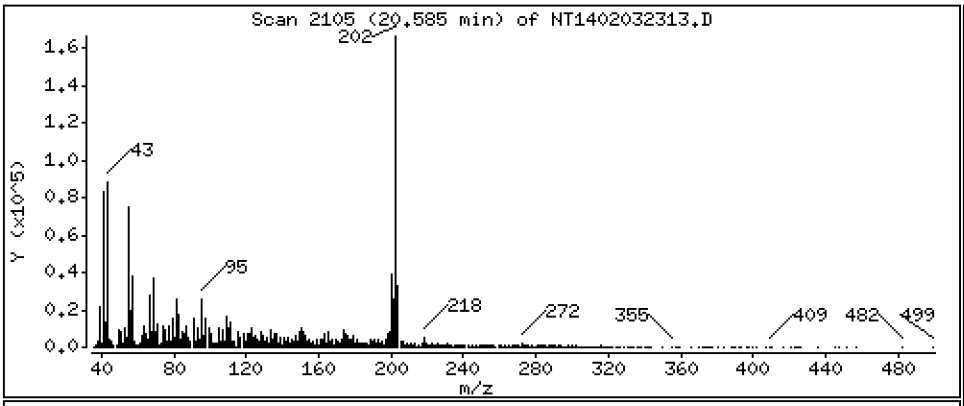
Operator: DSD

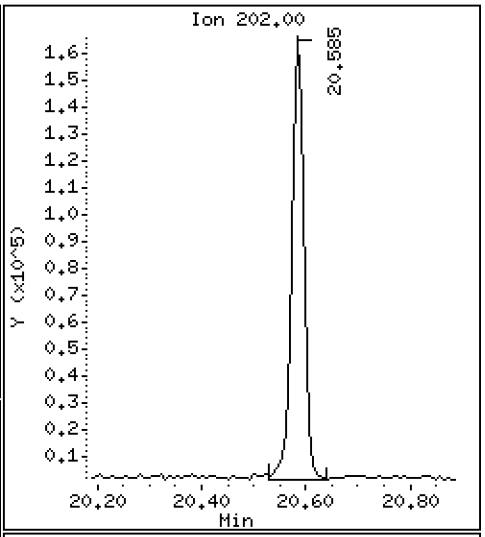
Column phase: ZB-5msi

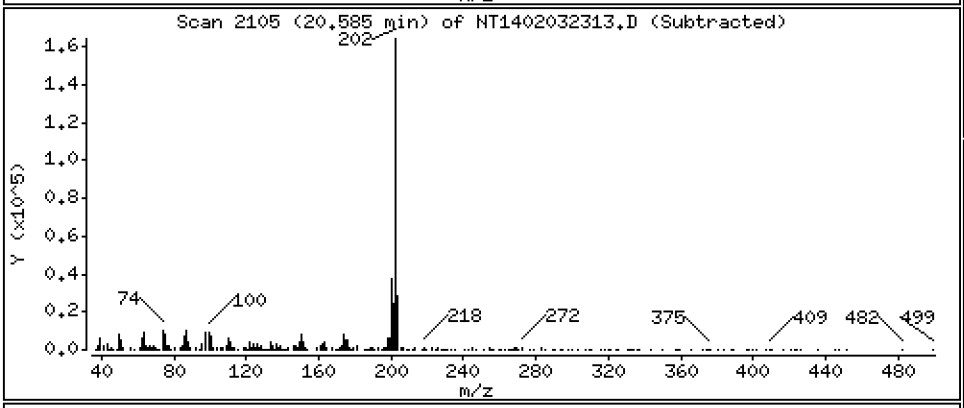
Column diameter: 0.25

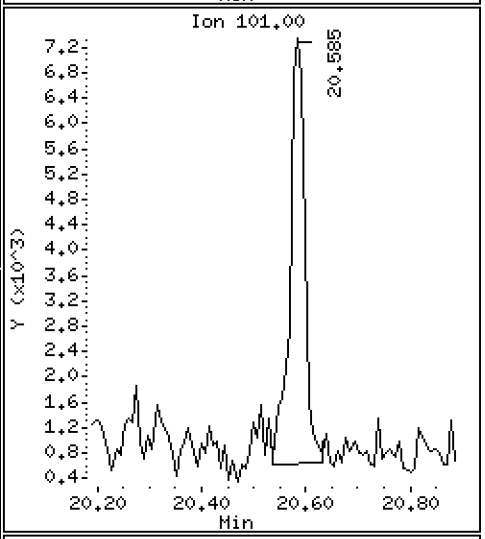
64 Fluoranthene

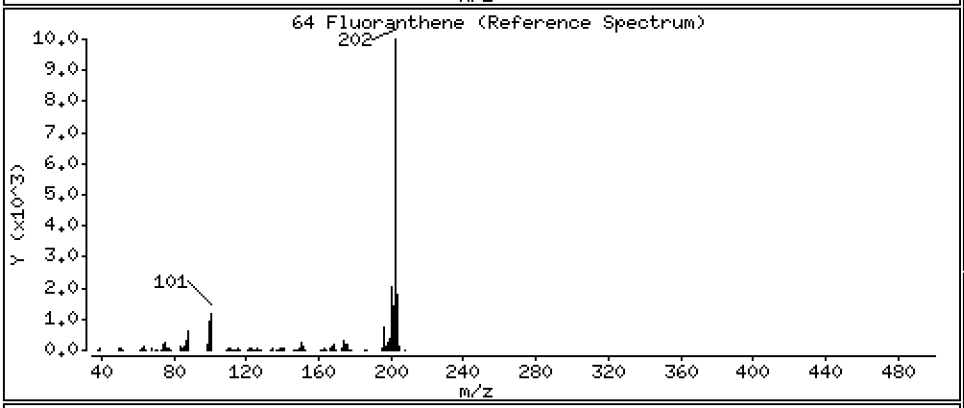
Concentration: 5.398 ug/mL

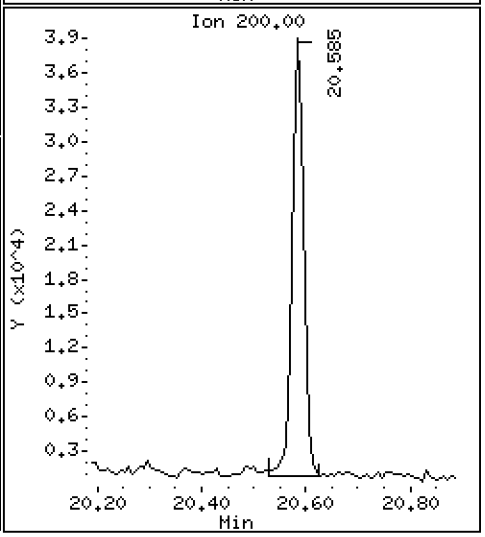


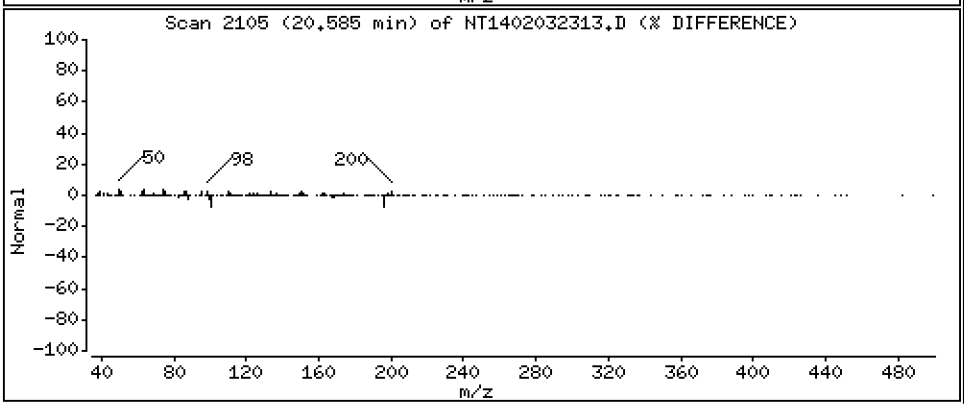












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

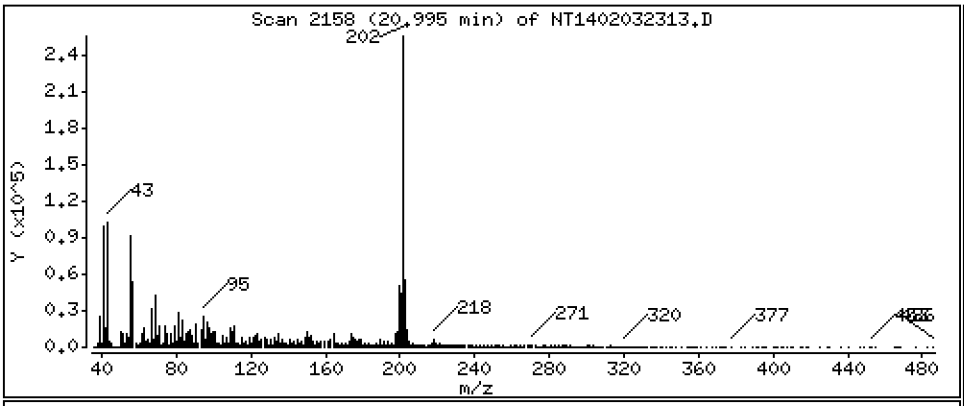
Operator: DSD

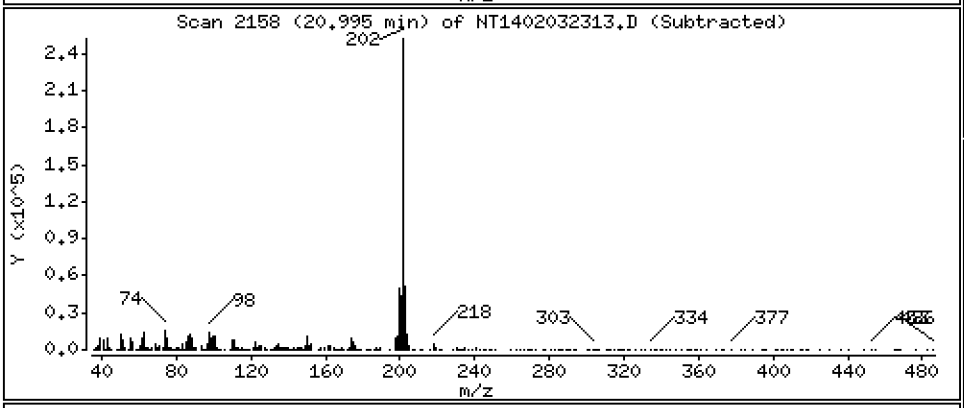
Column phase: ZB-5msi

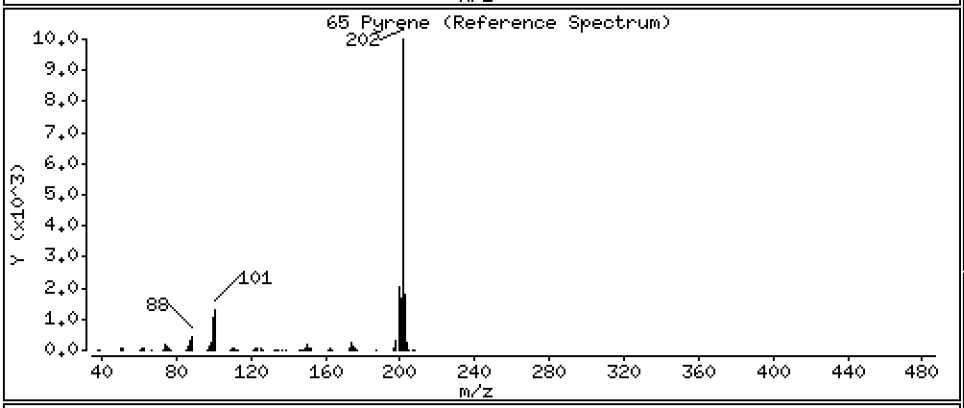
Column diameter: 0.25

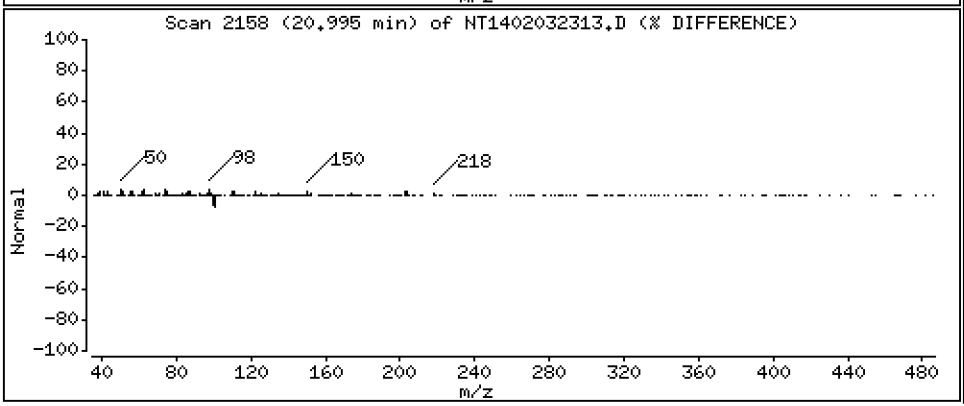
65 Pyrene

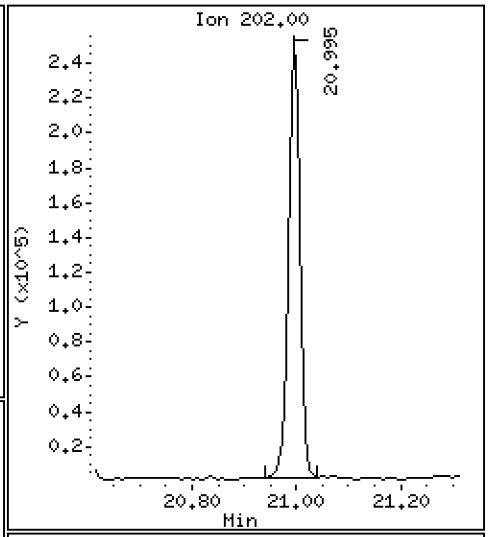
Concentration: 7.559 ug/mL

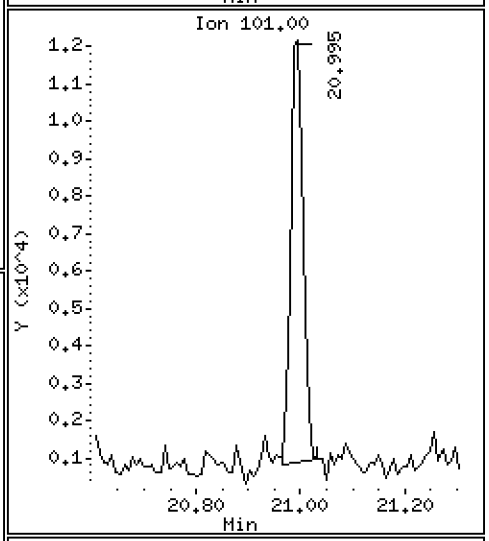


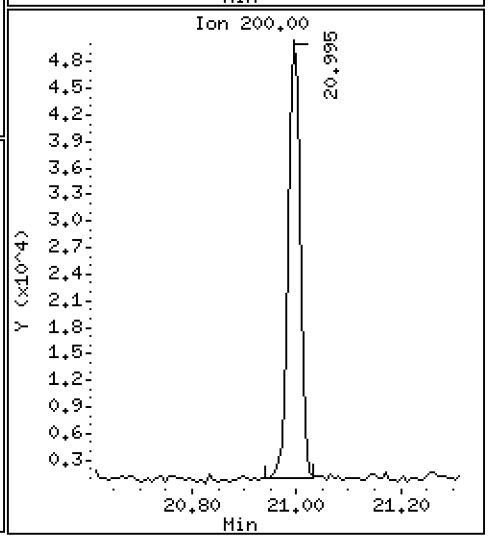












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

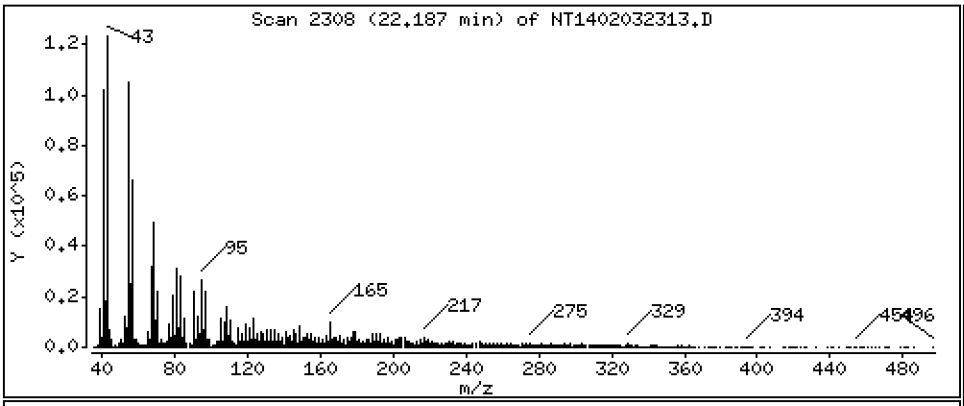
Operator: DSD

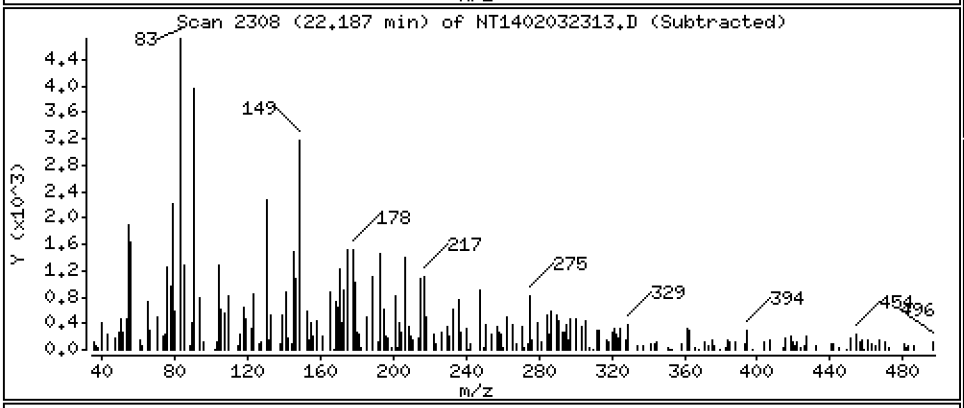
Column phase: ZB-5msi

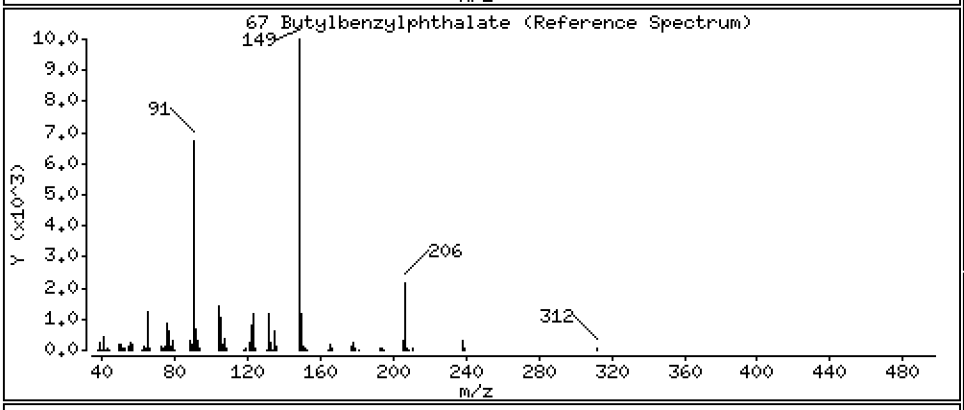
Column diameter: 0.25

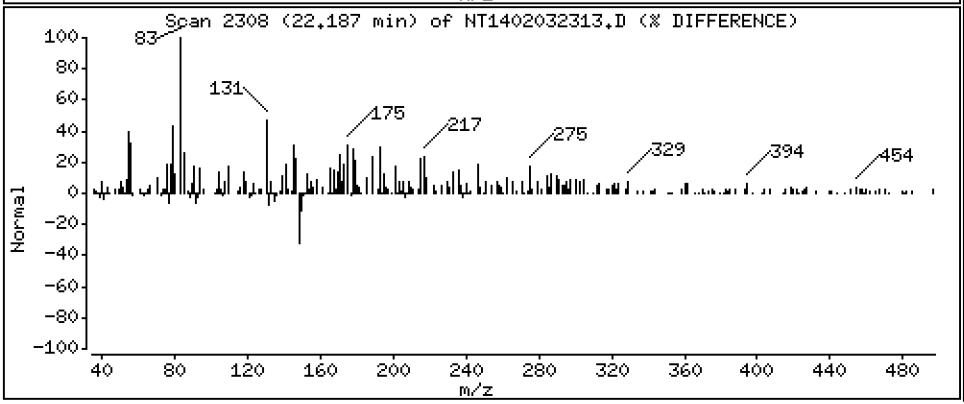
67 Butylbenzylphthalate

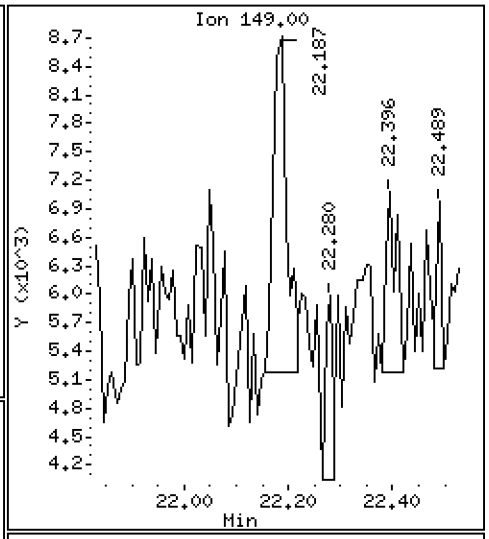
Concentration: 0.2342 ug/mL

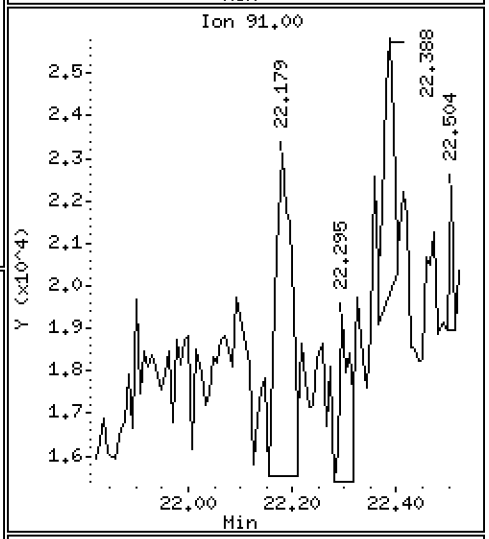


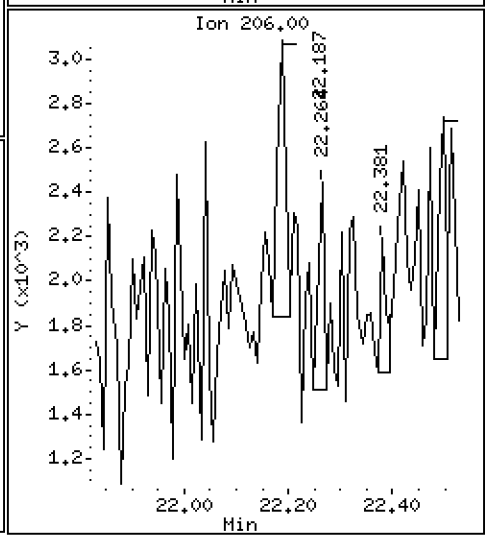












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032313.D

Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

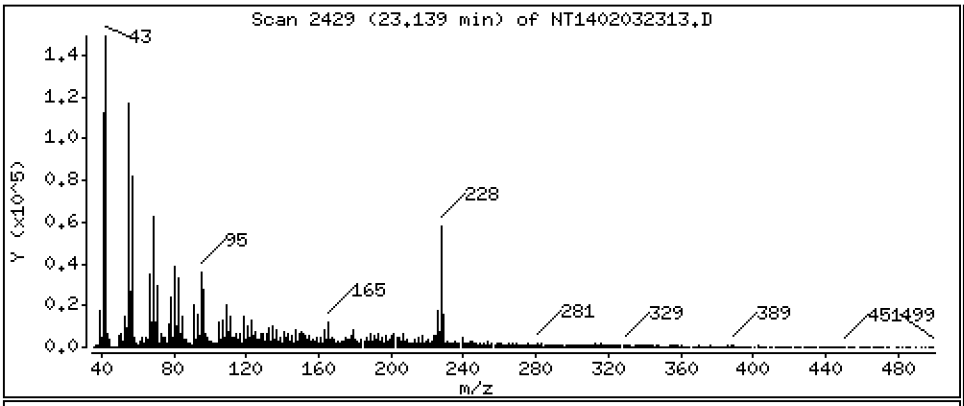
Operator: DSD

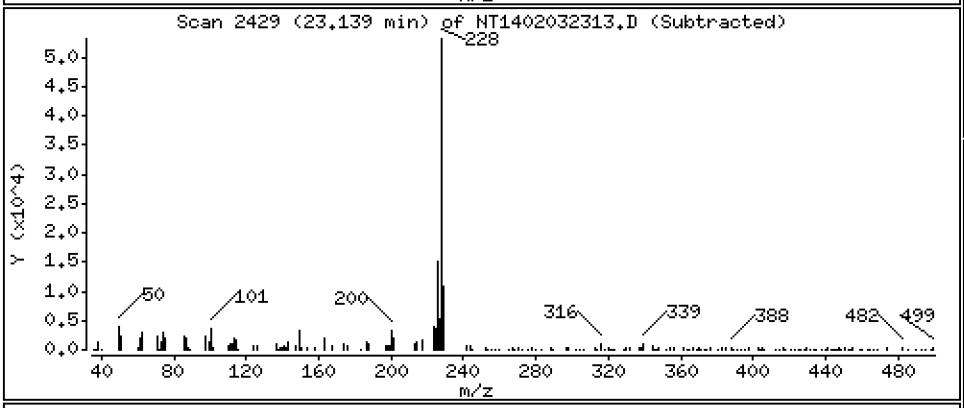
Column phase: ZB-5msi

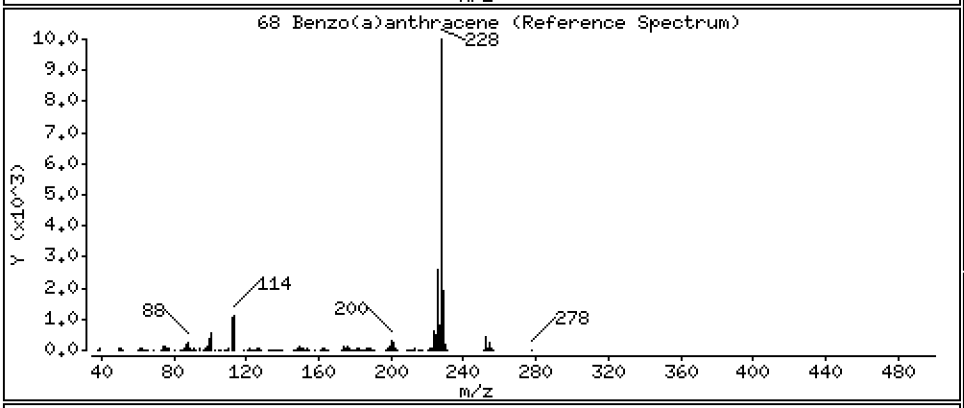
Column diameter: 0.25

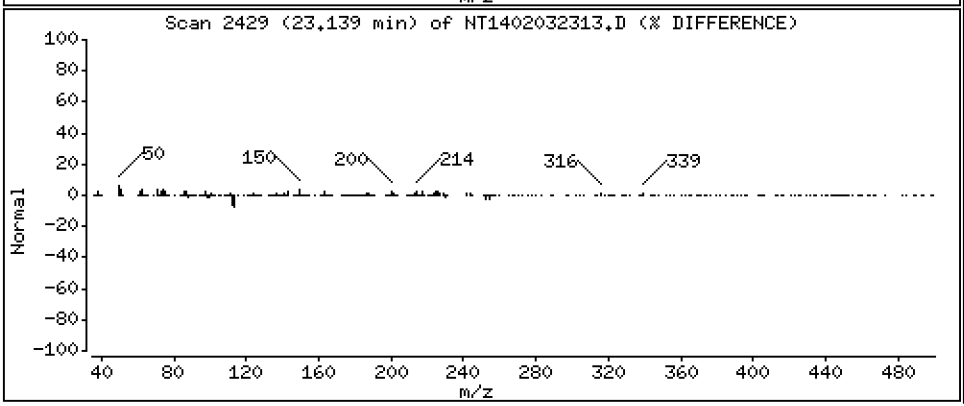
68 Benzo(a)anthracene

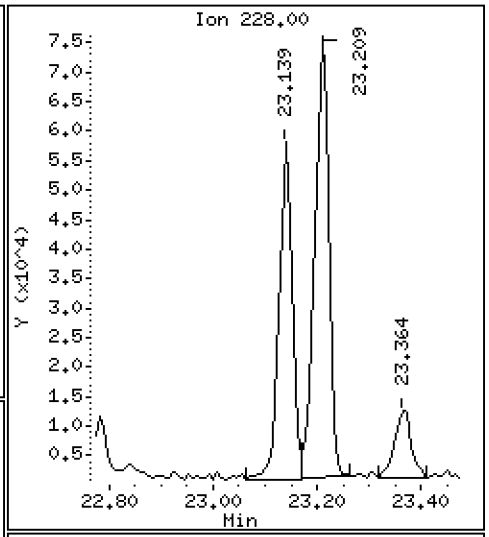
Concentration: 2.105 ug/mL

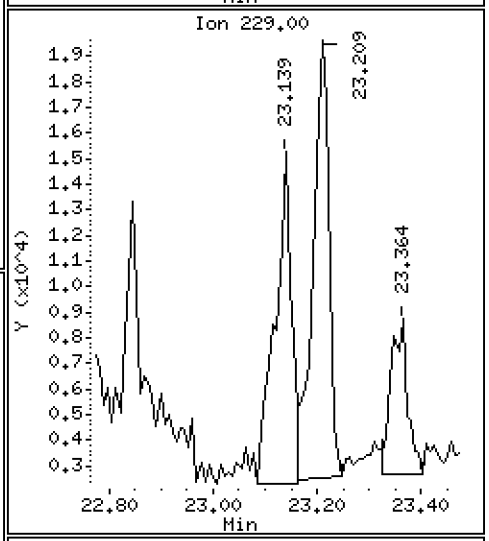


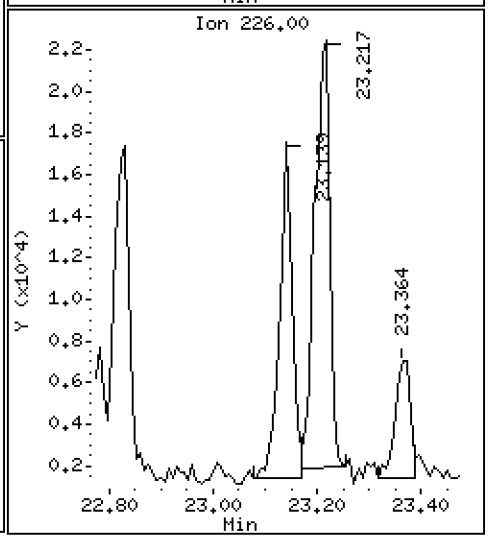












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

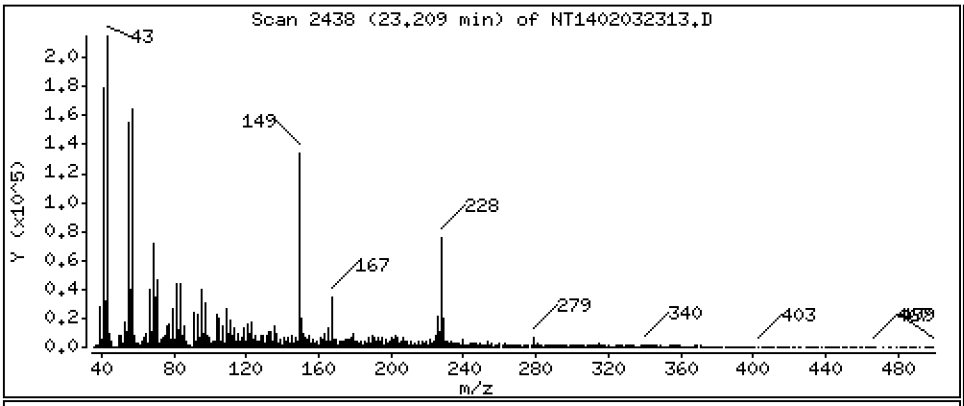
Operator: DSD

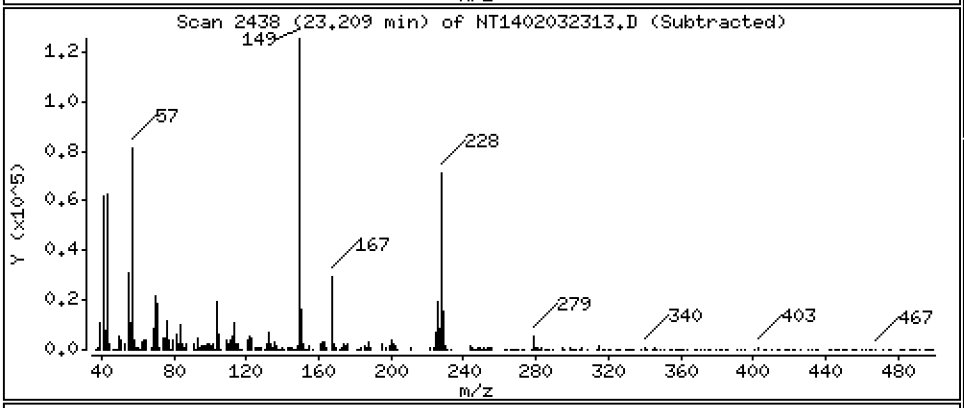
Column phase: ZB-5msi

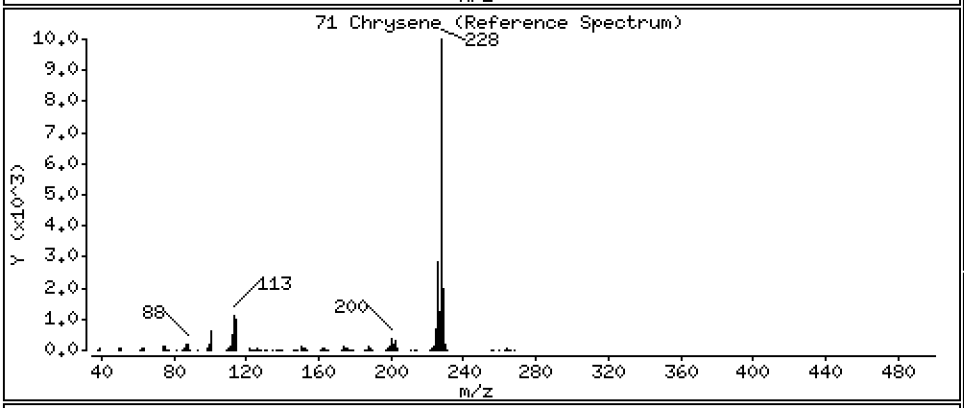
Column diameter: 0.25

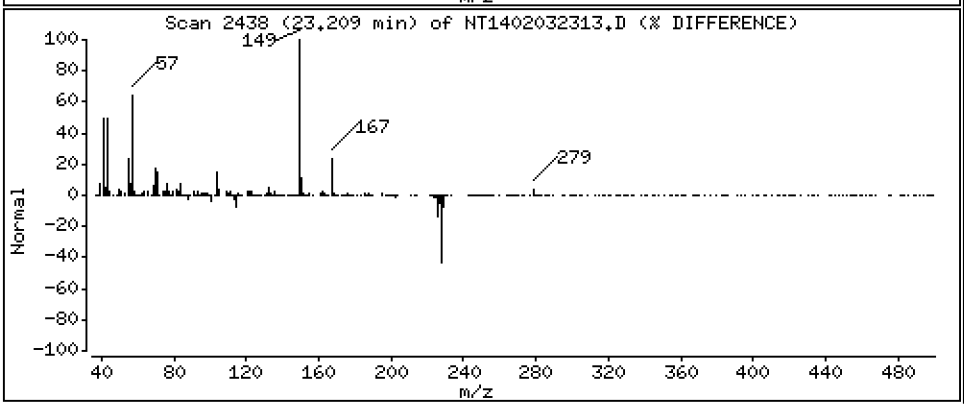
71 Chrysene

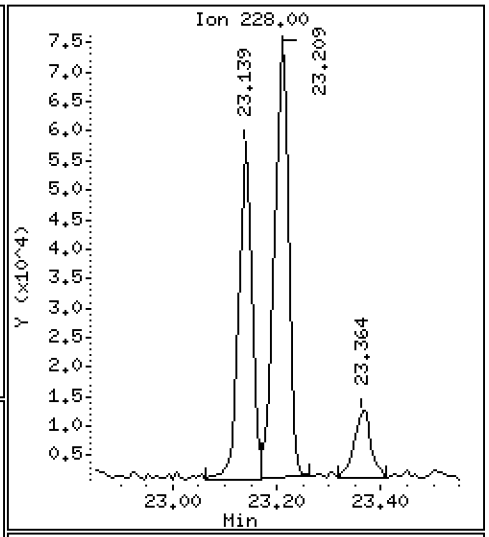
Concentration: 2.990 ug/mL

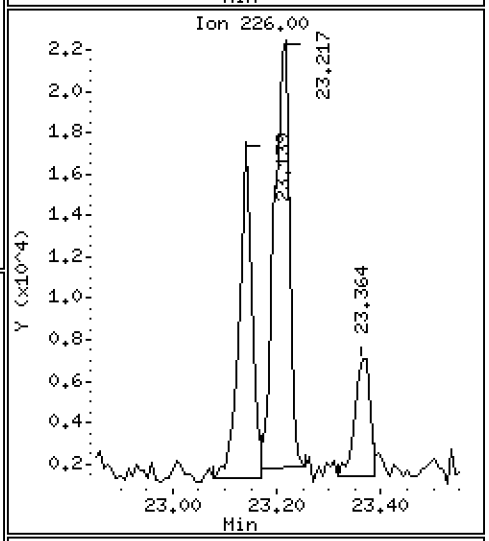


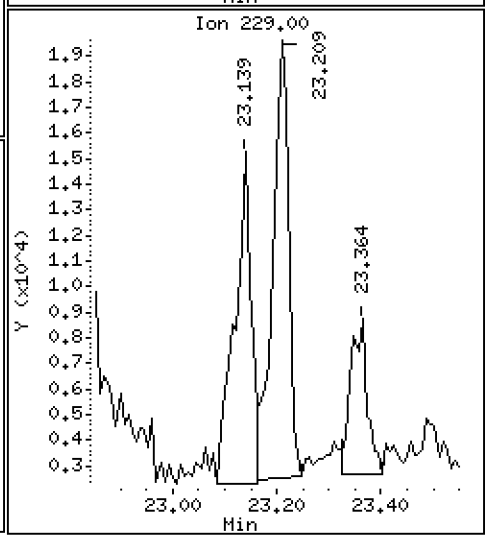












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

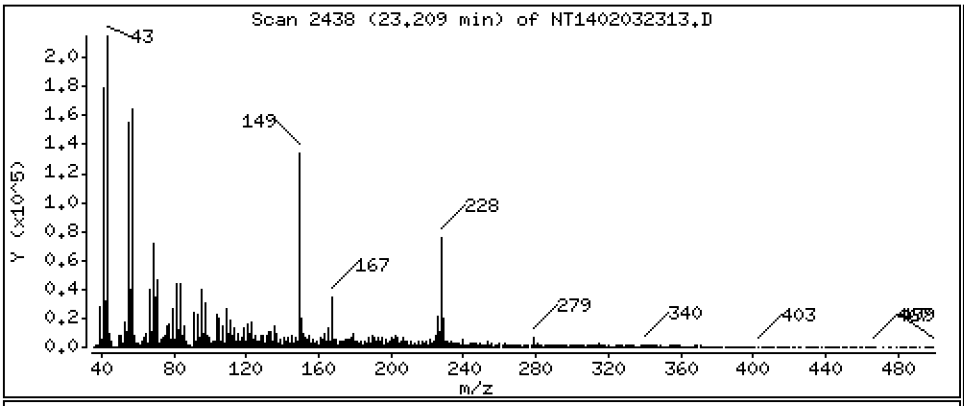
Operator: DSD

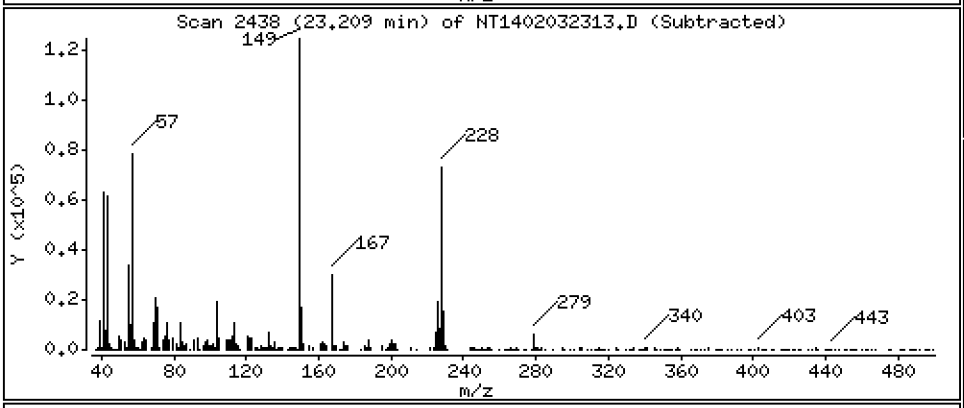
Column phase: ZB-5msi

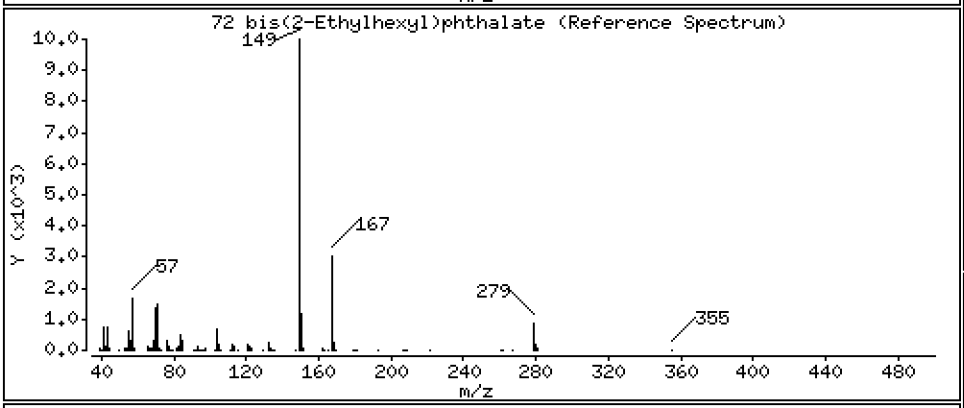
Column diameter: 0.25

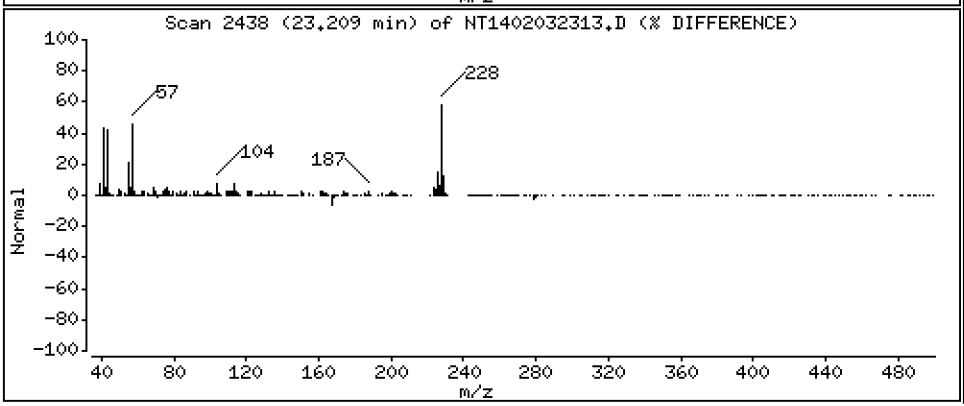
72 bis(2-Ethylhexyl)phthalate

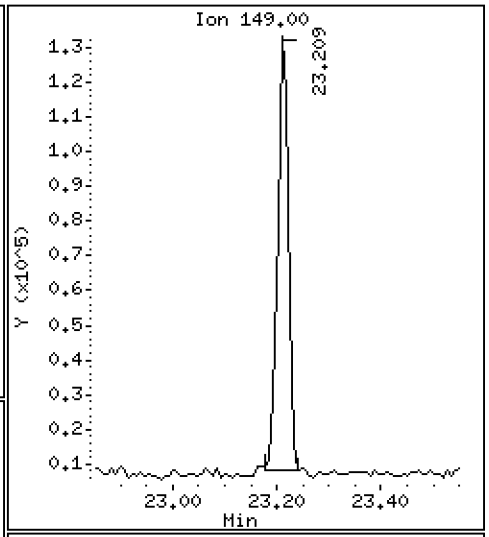
Concentration: 4.781 ug/mL

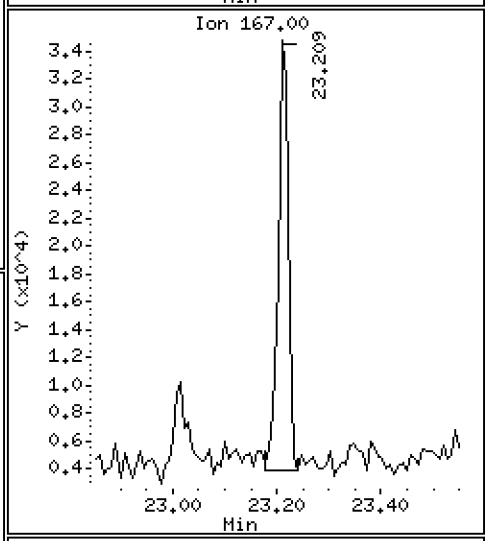


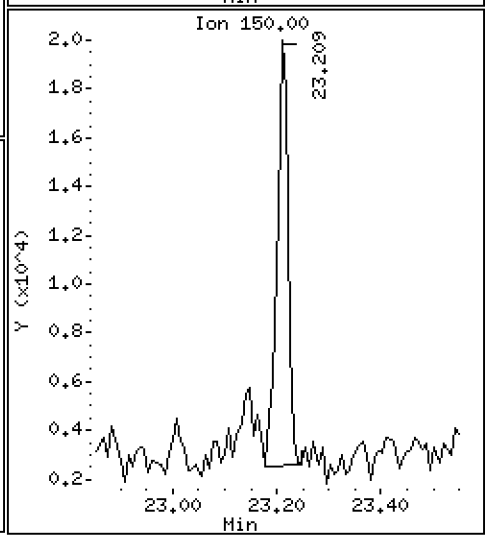












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

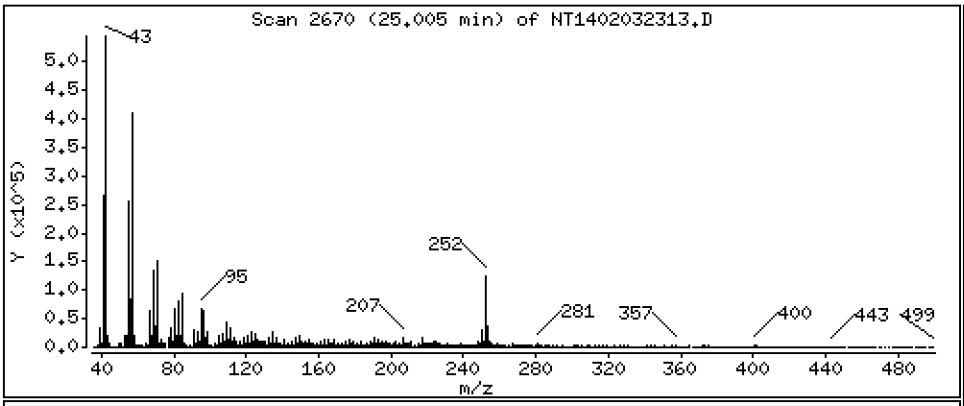
Operator: DSD

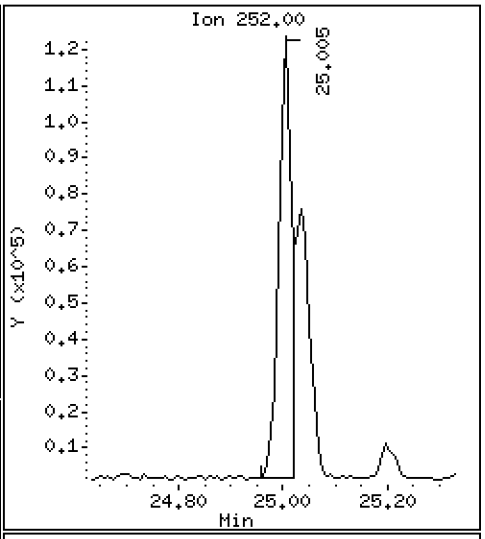
Column phase: ZB-5msi

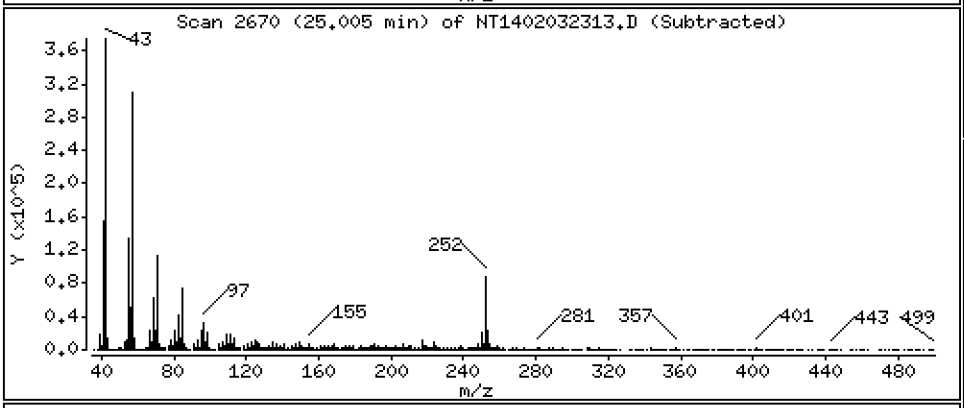
Column diameter: 0.25

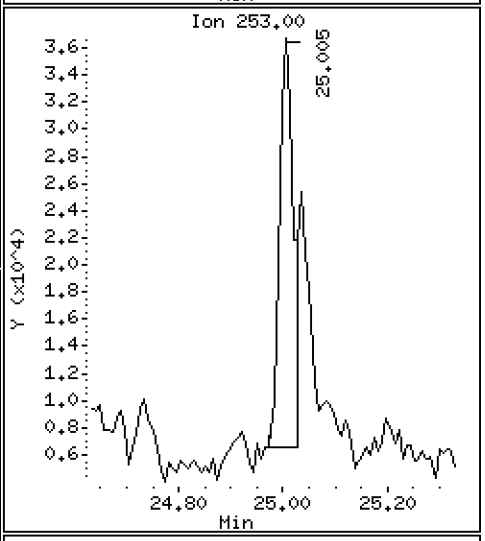
74 Benzo(b)fluoranthene

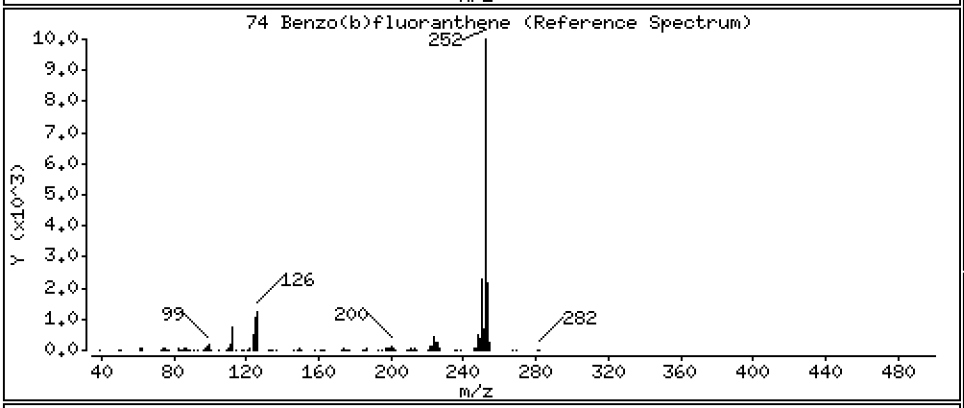
Concentration: 4.287 ug/mL

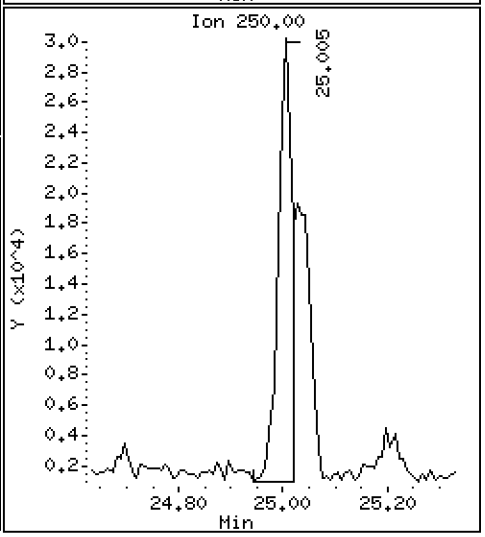


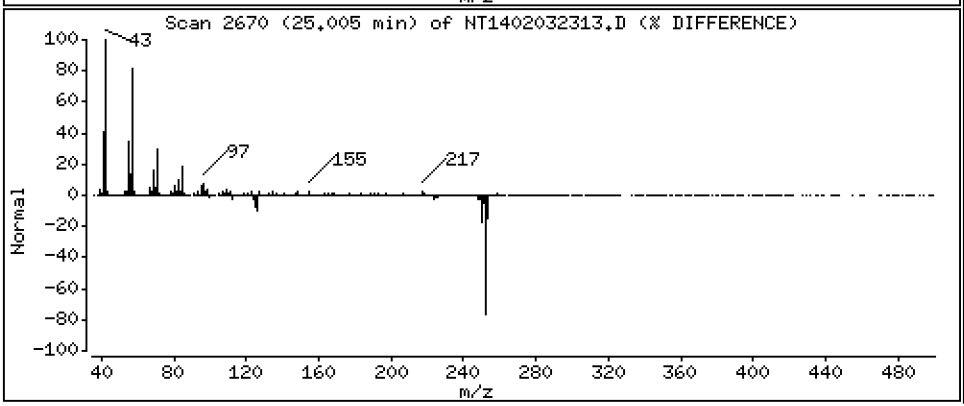












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

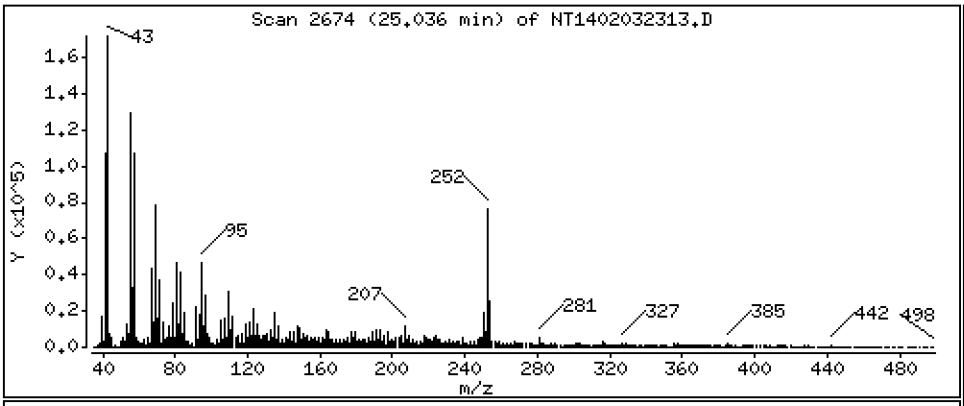
Operator: DSD

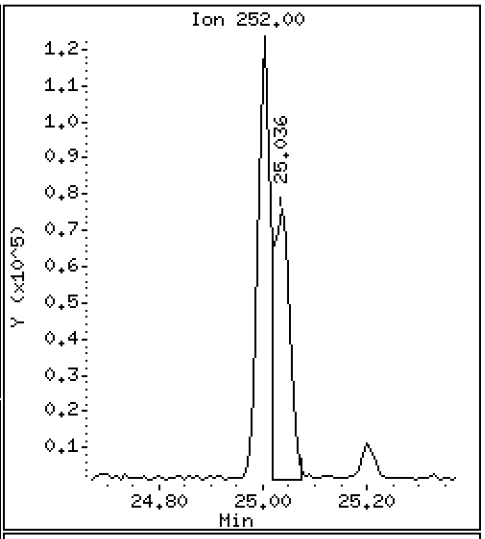
Column phase: ZB-5msi

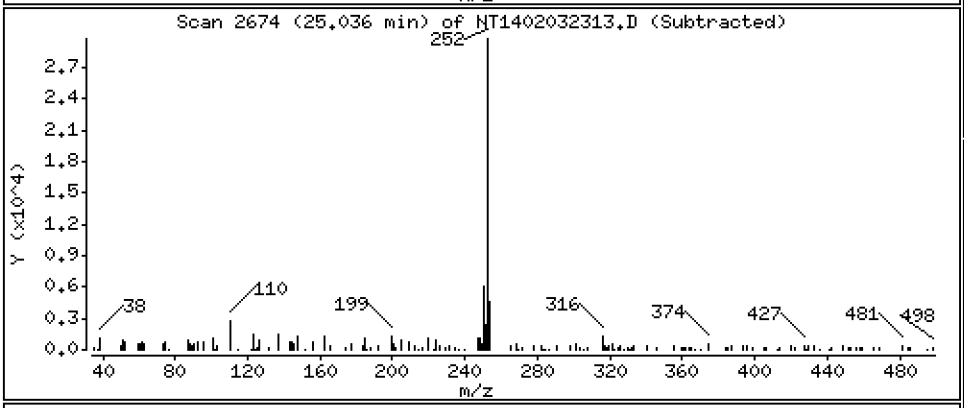
Column diameter: 0.25

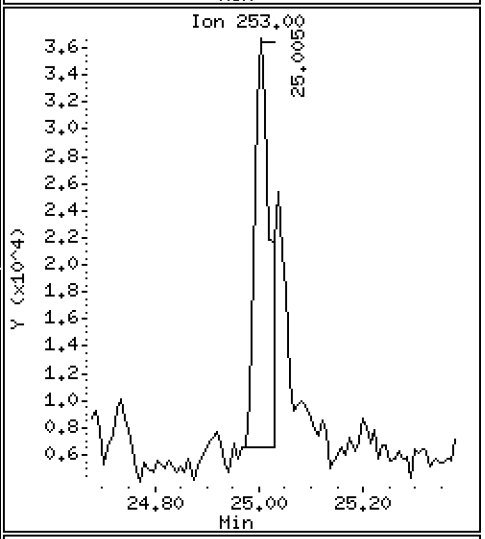
75 Benzo(k)fluoranthene

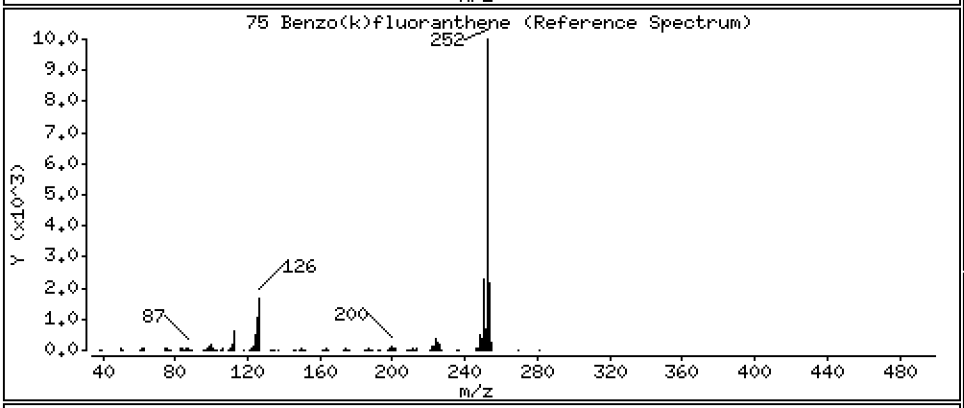
Concentration: 3.153 ug/mL

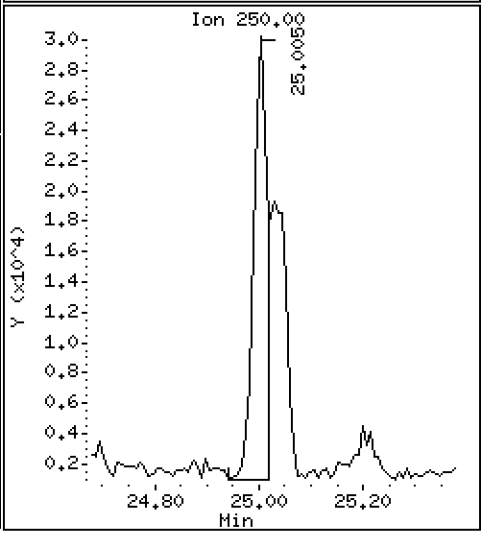


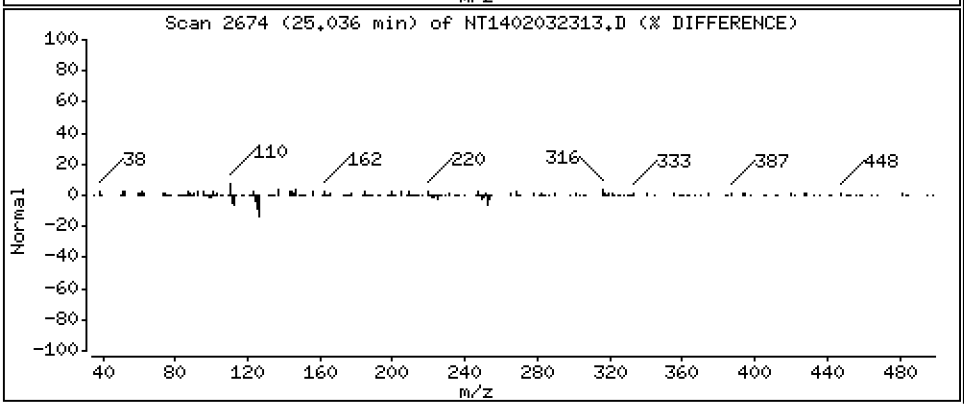












Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

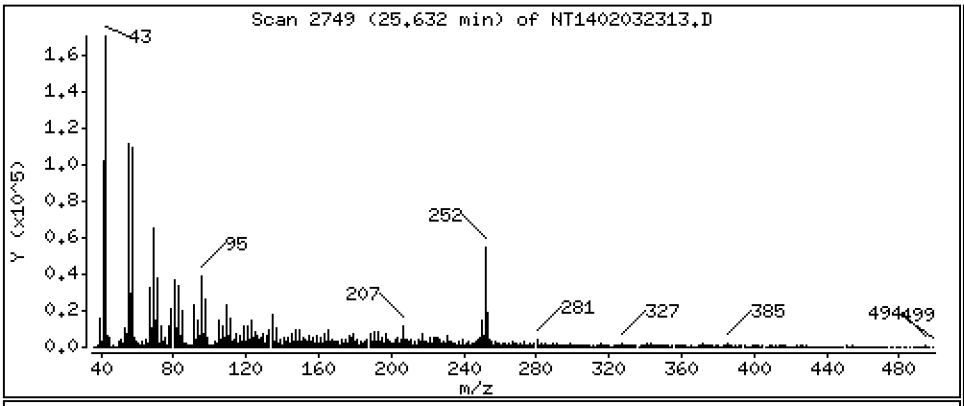
Operator: DSD

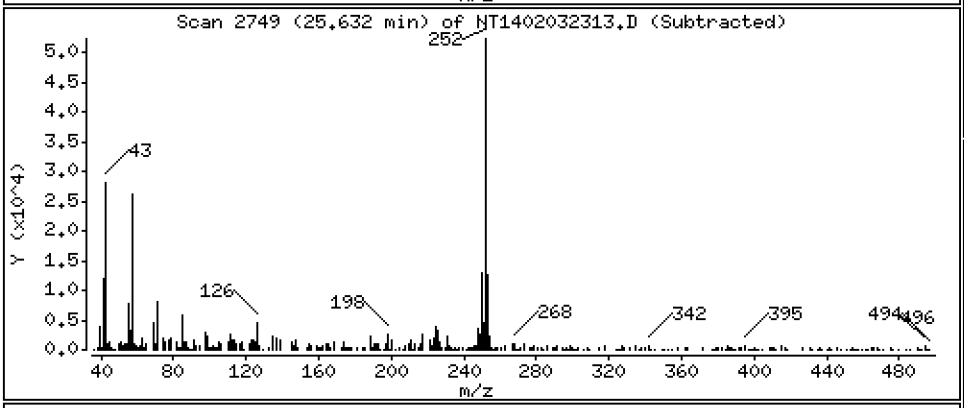
Column phase: ZB-5msi

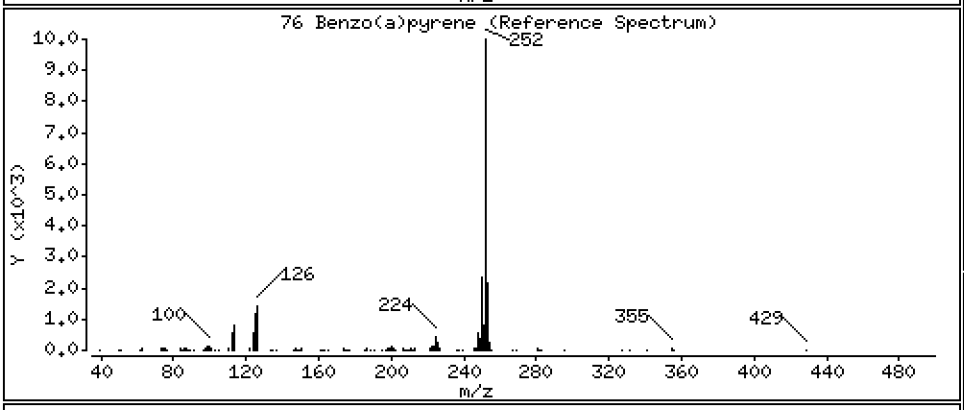
Column diameter: 0.25

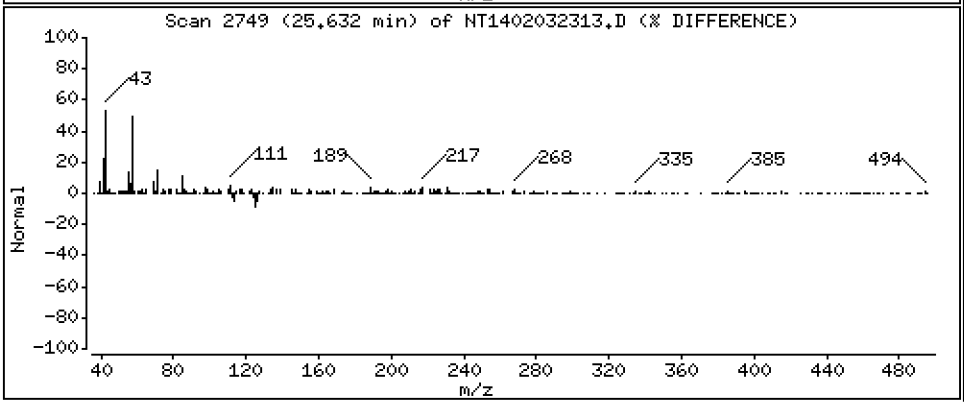
76 Benzo(a)pyrene

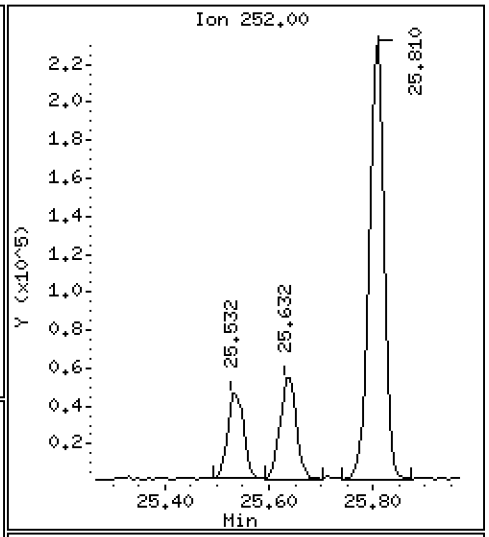
Concentration: 2.705 ug/mL

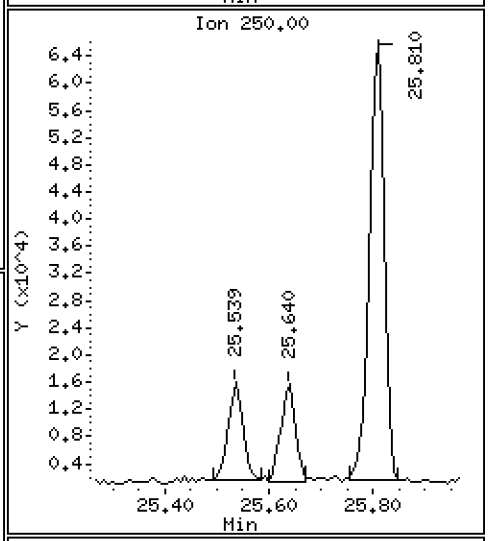


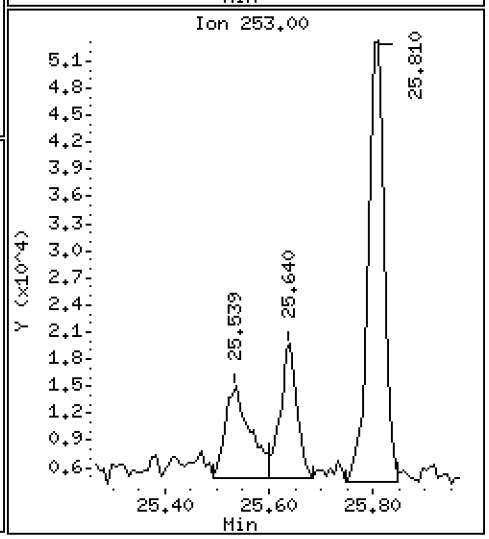












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

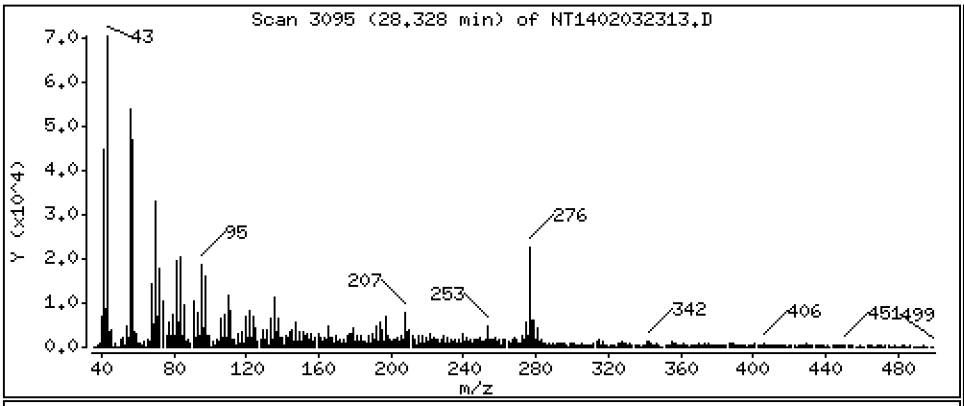
Operator: DSD

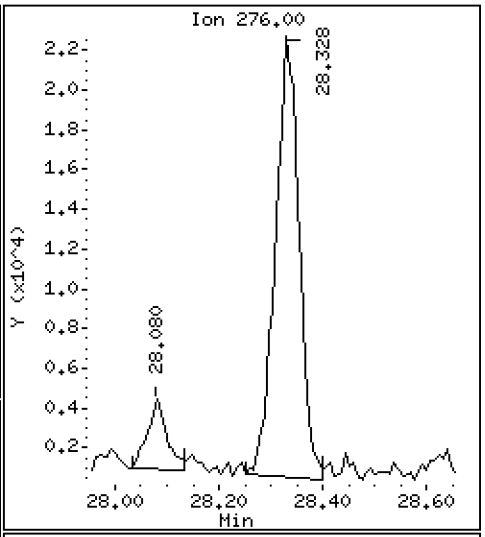
Column phase: ZB-5msi

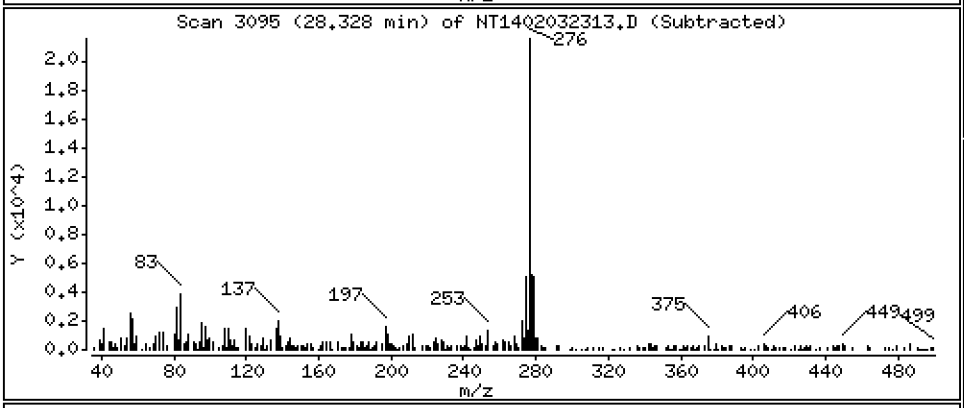
Column diameter: 0.25

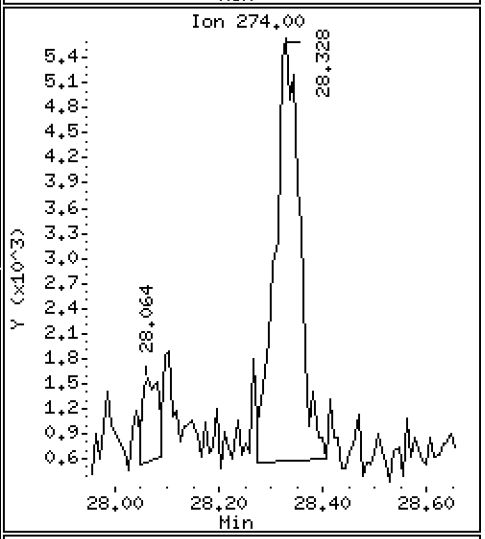
78 Indeno(1,2,3-cd)pyrene

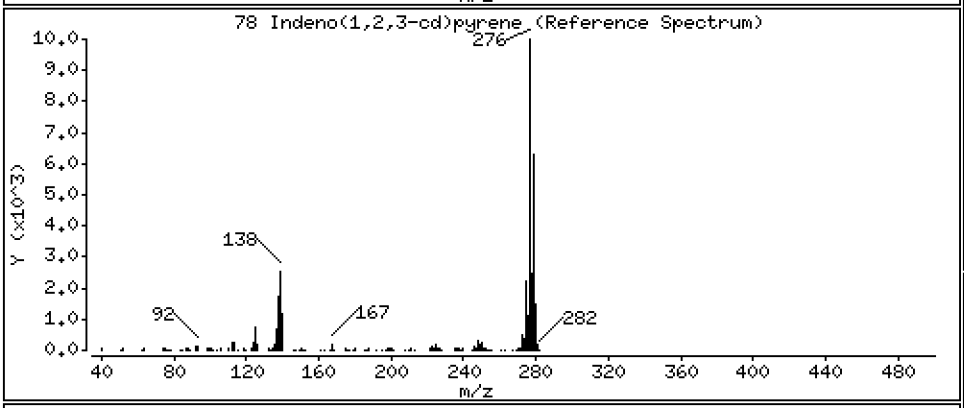
Concentration: 1.315 ug/mL

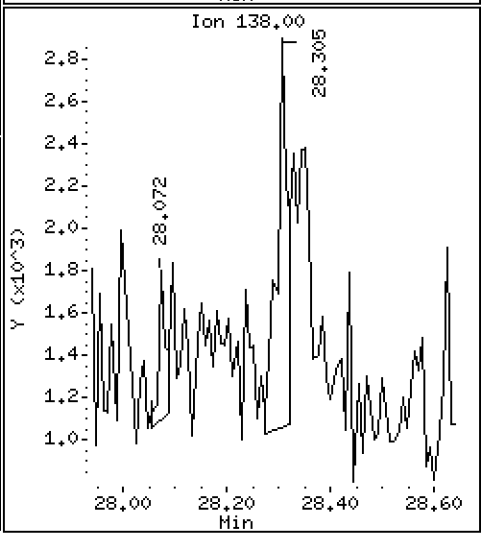


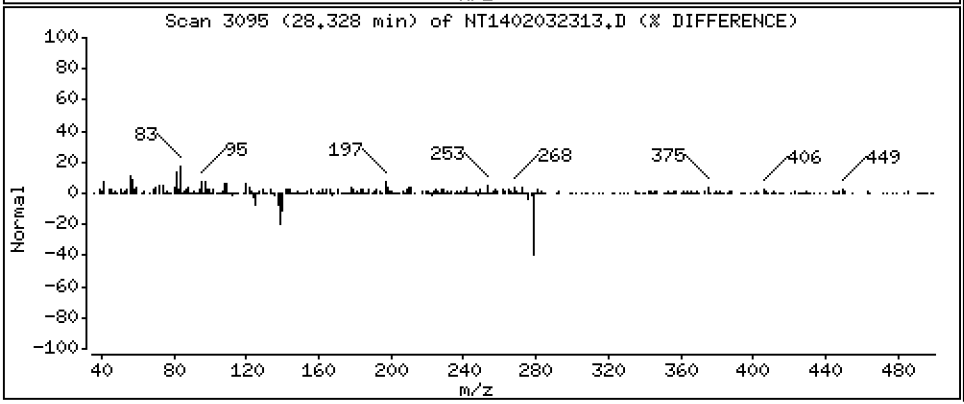












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

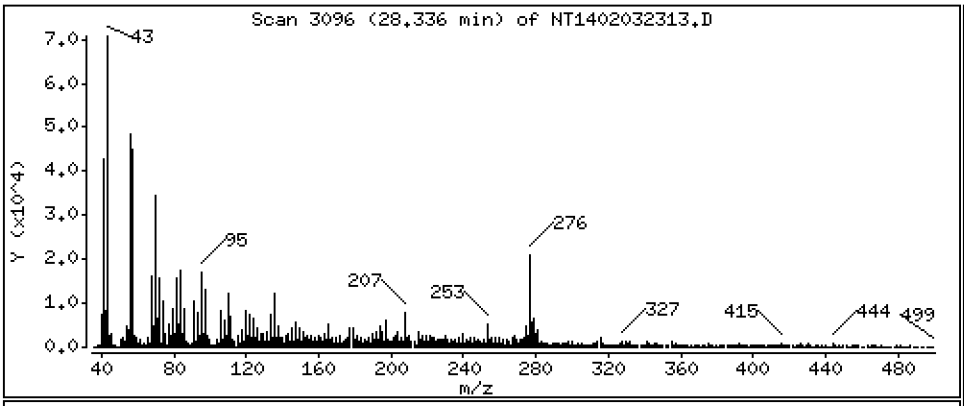
Operator: DSD

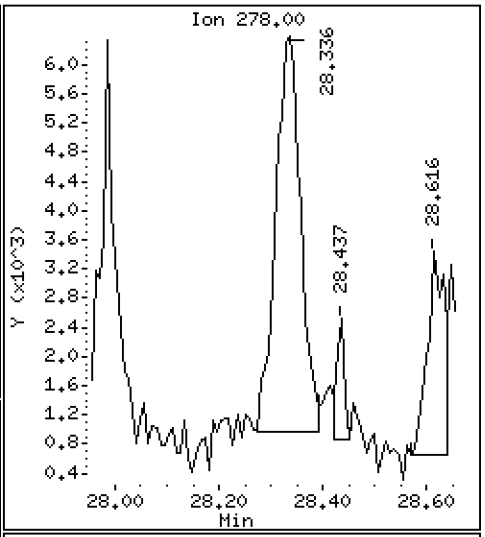
Column phase: ZB-5msi

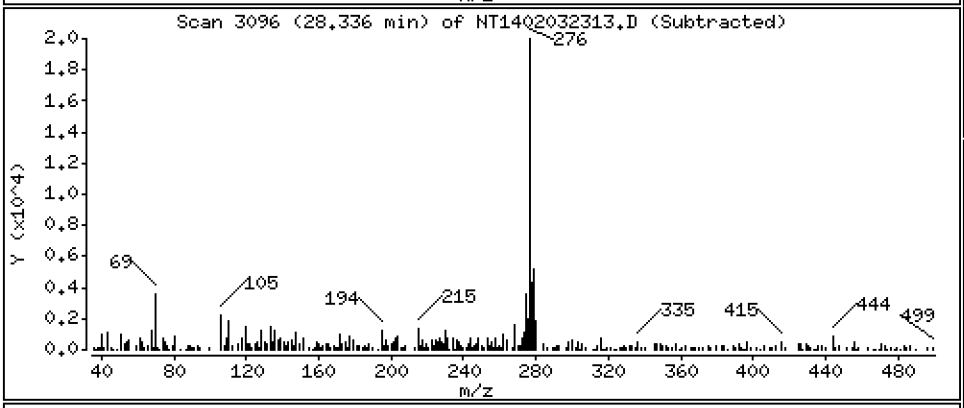
Column diameter: 0.25

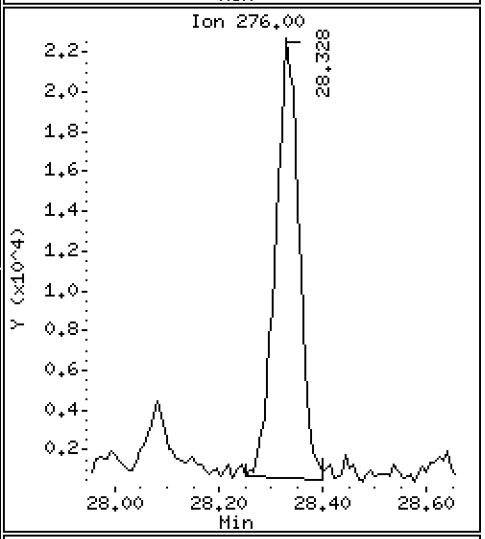
79 Dibenzo(a,h)anthracene

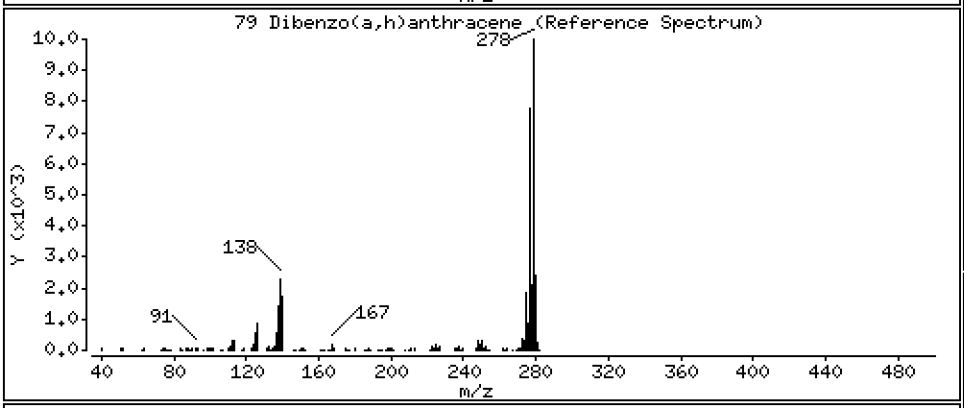
Concentration: 0.3911 ug/mL

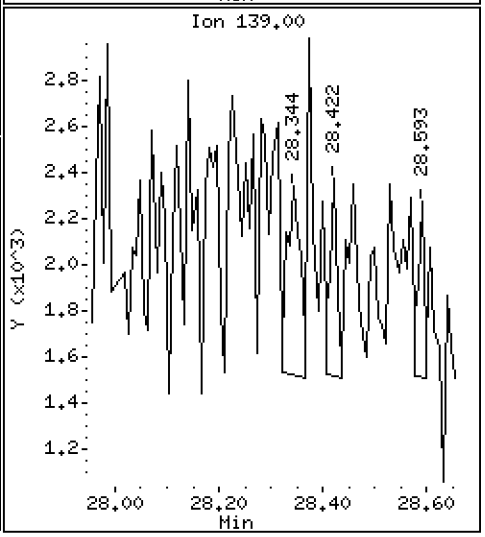


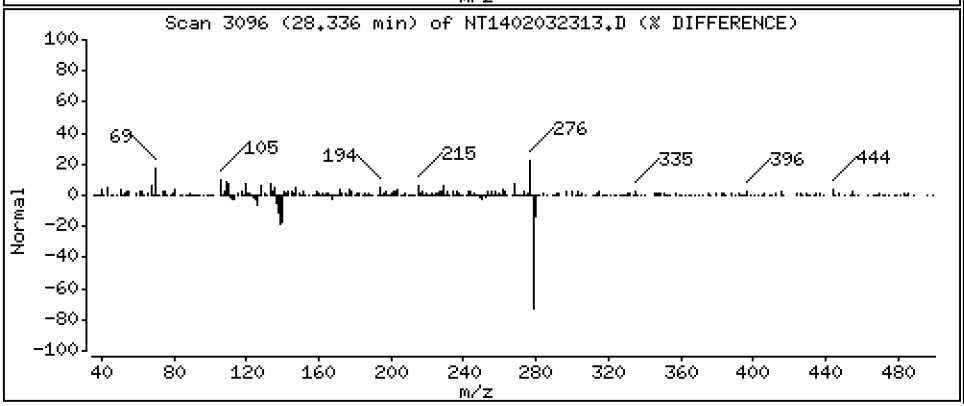












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

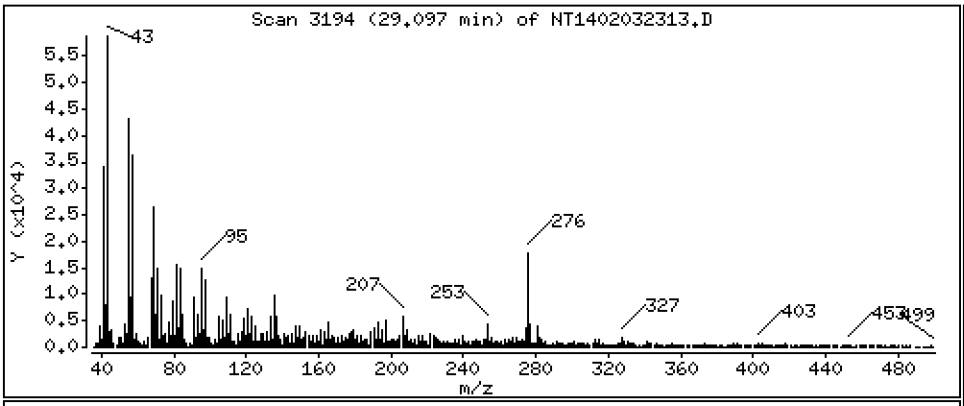
Operator: DSD

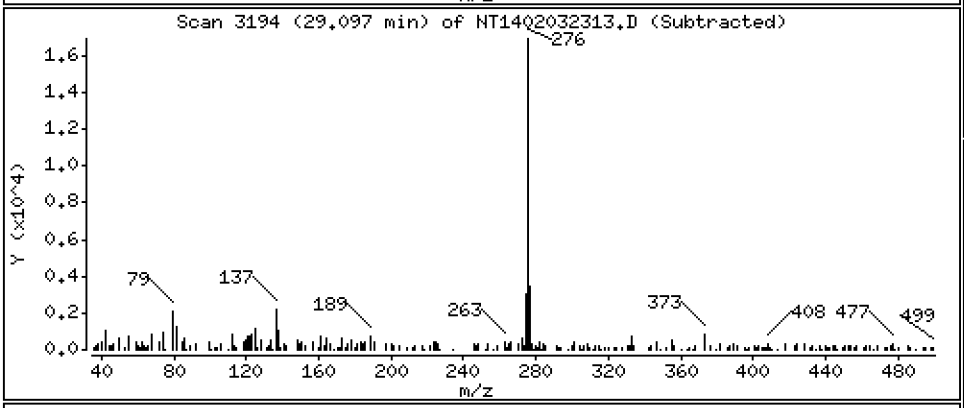
Column phase: ZB-5msi

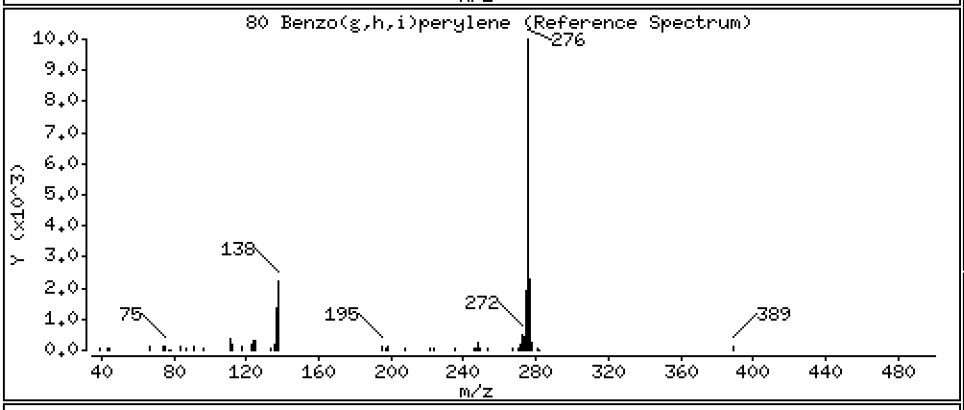
Column diameter: 0.25

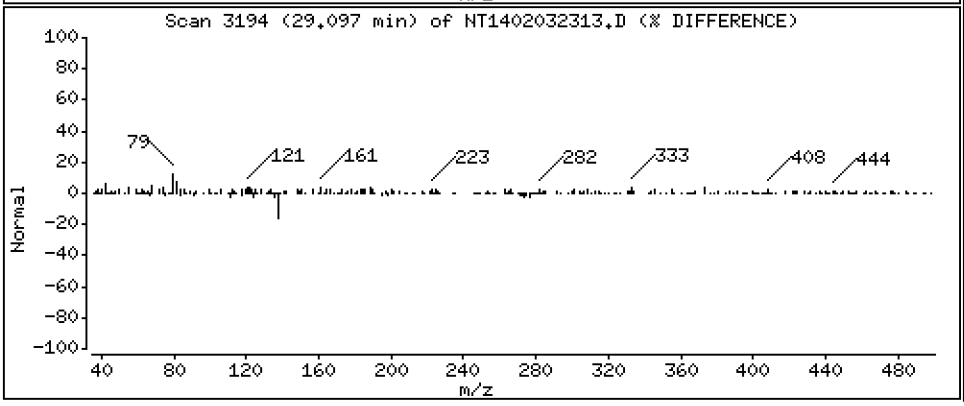
80 Benzo(g,h,i)perylene

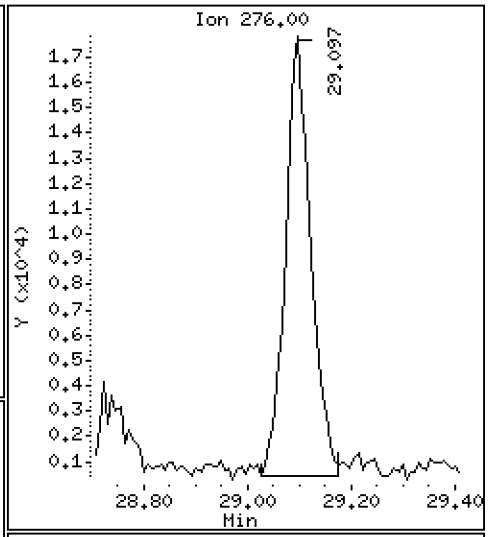
Concentration: 1.494 ug/mL

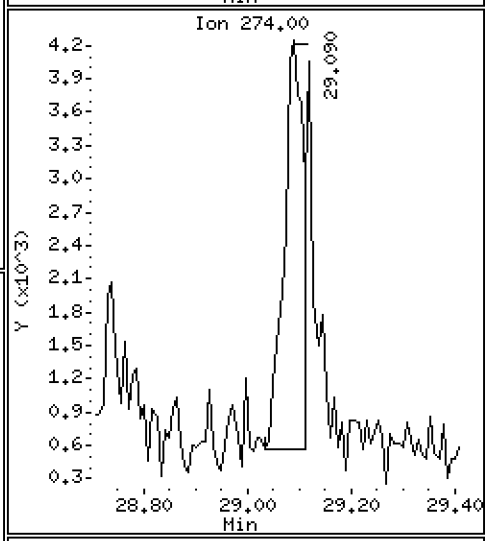


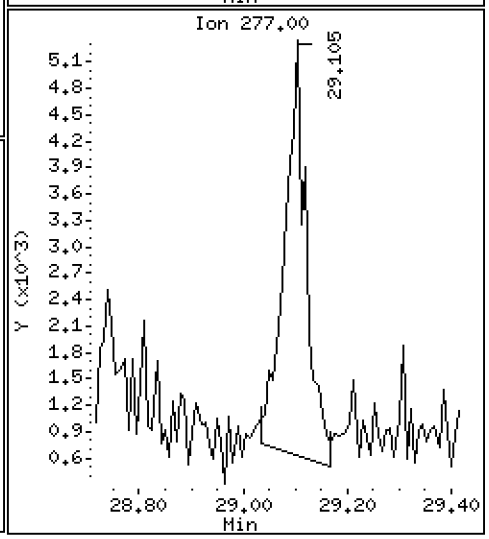












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

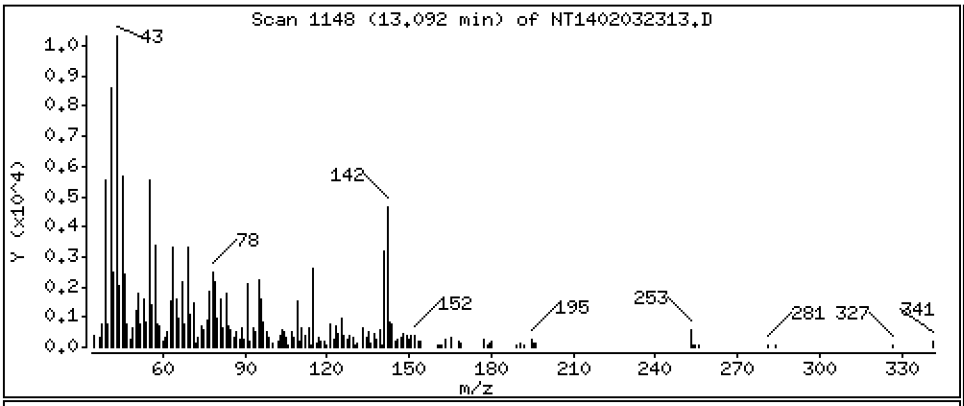
Operator: DSD

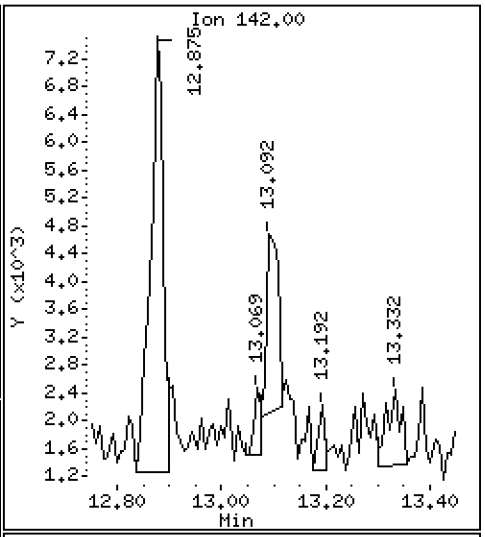
Column phase: ZB-5msi

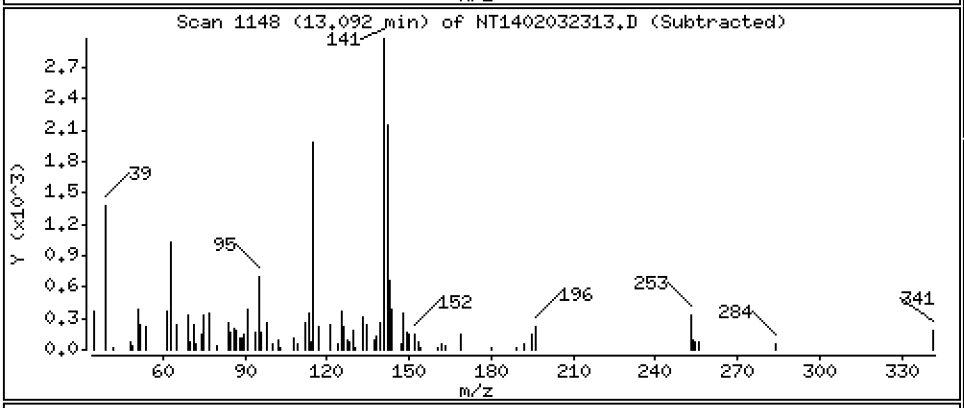
Column diameter: 0.25

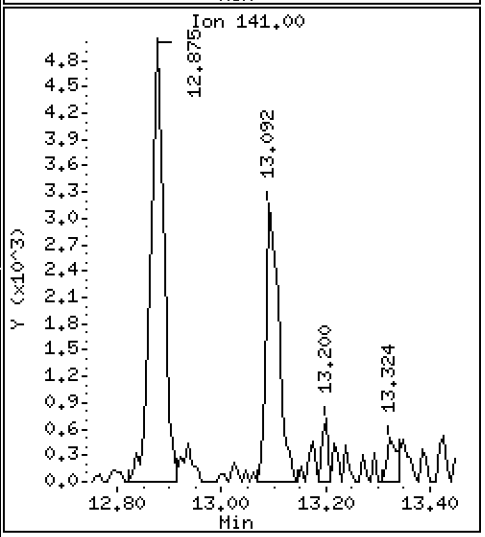
105 1-methylnaphthalene

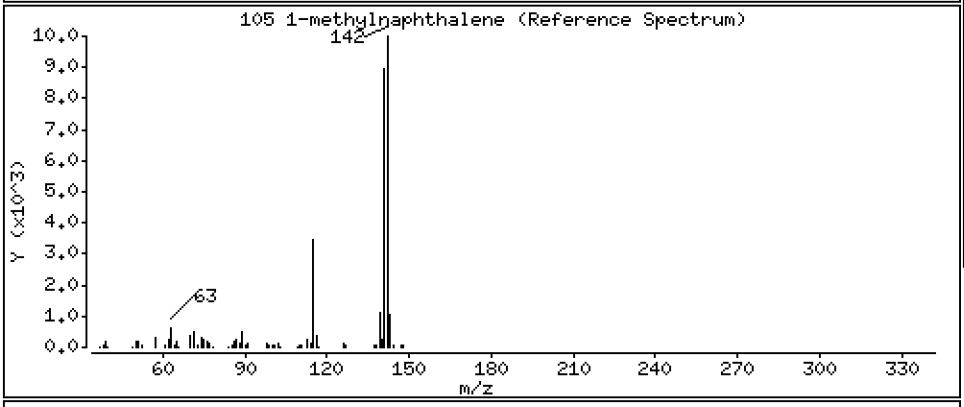
Concentration: 0.07575 ug/mL

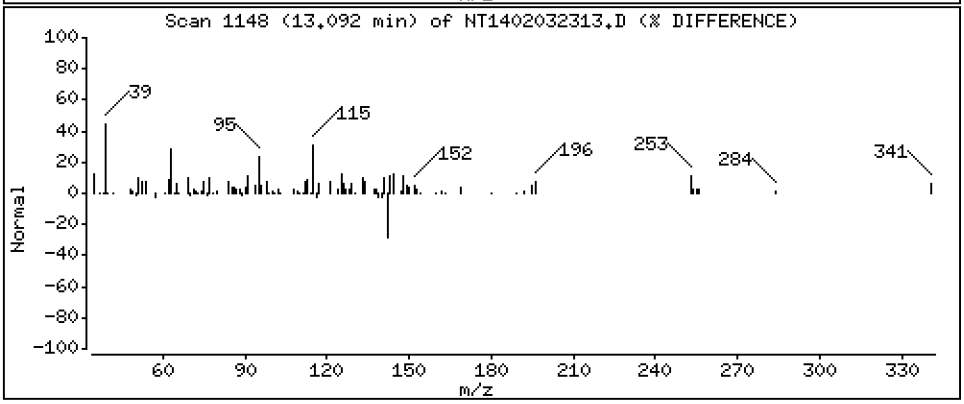












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Date : 03-FEB-2023 20:21

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-03

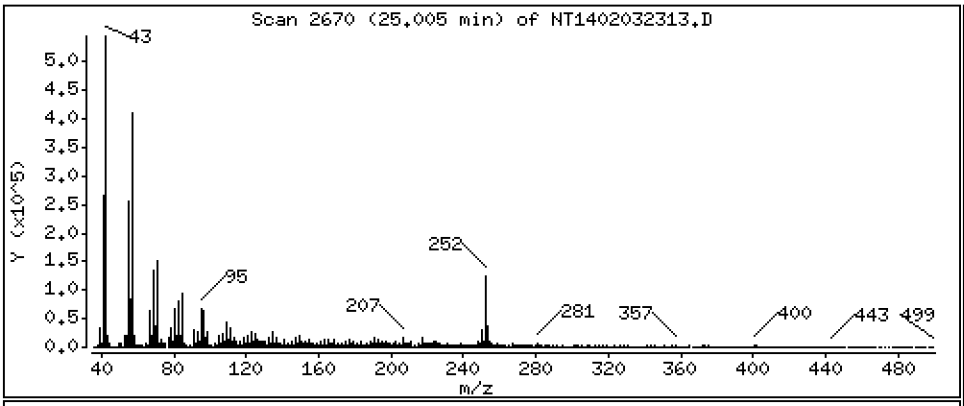
Operator: DSD

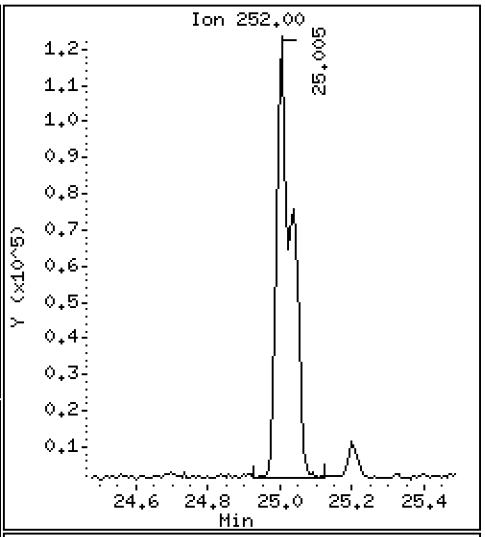
Column phase: ZB-5msi

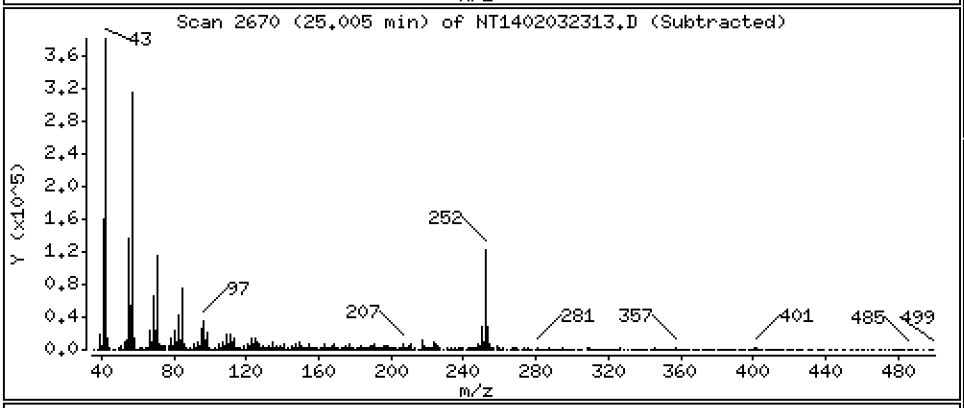
Column diameter: 0.25

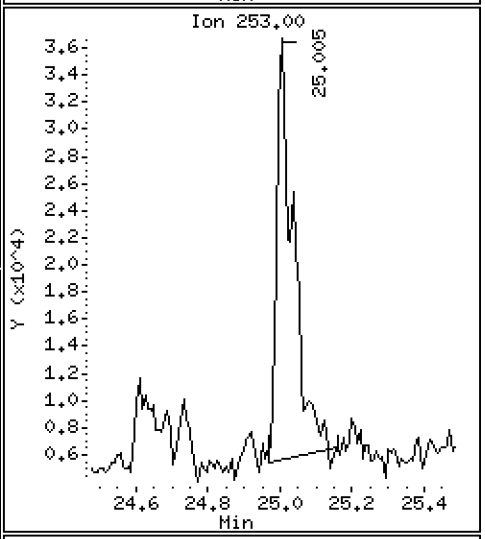
187 Total Benzofluoranthenes

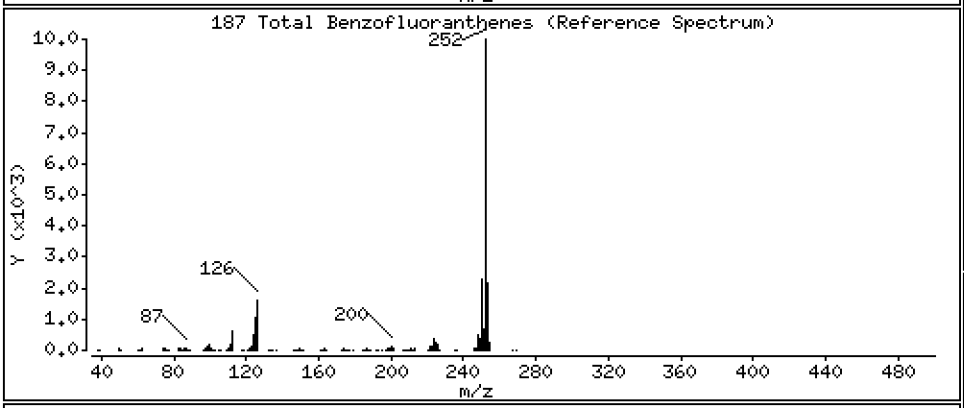
Concentration: 7.202 ug/mL

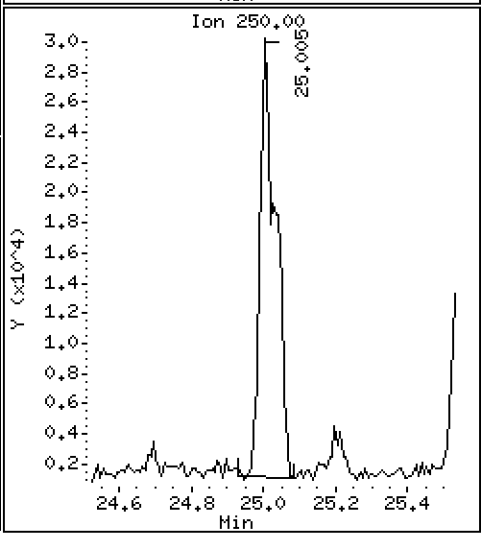


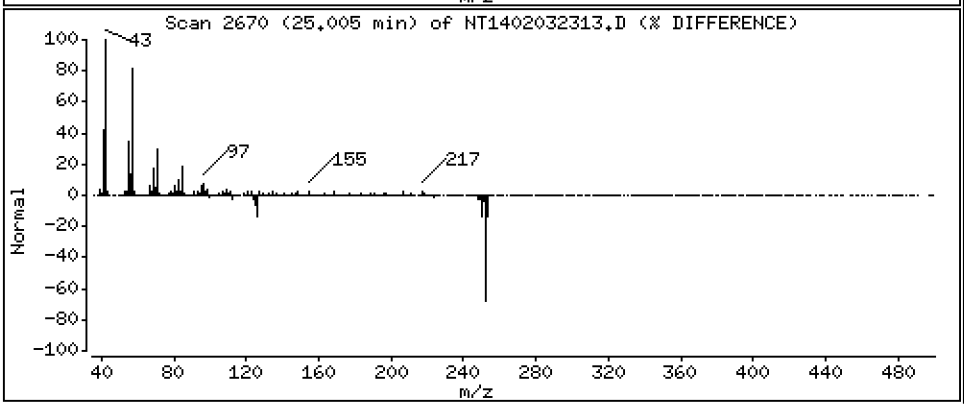












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230203.b\NT1402032313.D
Lab Smp Id: 22L0459-03
Inj Date : 03-FEB-2023 20:21 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : 22L0459-03
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.720	6.720	(0.752)	60300	3.86151	3.862
$	2 Phenol-d5	99	8.312	8.312	(0.930)	90907	4.43072	4.431
	3 Phenol	94	8.343	8.336	(0.933)	3954	0.15712	0.1571
$	5 2-Chlorophenol-d4	132	8.575	8.583	(0.959)	99201	4.99884	4.999
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.938	8.946	(1.000)	58140	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.041)	43588	3.09480	3.095
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.233	9.218	(1.033)	2372	0.19118	0.1912
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.451	9.451	(1.057)	682	0.03529	0.03529(M)
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.722	9.722	(1.088)	8328	0.38184	0.3818
$	18 Nitrobenzene-d5	82	10.033	10.041	(0.878)	111874	3.23849	3.238
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.428	11.436	(1.000)	241442	4.00000	
	28 Naphthalene	128	11.475	11.482	(1.004)	15202	0.25024	0.2502
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.875	12.882	(1.127)	10646	0.21497	0.2150
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.656	13.664	(0.907)	201867	3.73521	3.735
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	14.740	14.748	(0.979)	8826	0.12540	0.1254
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.057	15.057	(1.000)	151857	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.127	15.127	(1.005)	8705	0.18284	0.1828
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.451	15.451	(1.026)	12893	0.18688	0.1869
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.023	16.031	(1.064)	21248	0.25132	0.2513
	49	Fluorene	166	16.162	16.163	(1.073)	19593	0.23066	0.2307
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.702	16.702	(1.109)	77947	6.18946	6.189
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.101	18.093	(1.000)	310836	4.00000	
	60	Phenanthrene	178	18.147	18.147	(1.003)	158981	1.89559	1.896
	61	Anthracene	178	18.240	18.232	(1.008)	58307	0.72757	0.7276
	62	Carbazole	167	18.573	18.565	(1.026)	21246	0.28872	0.2887
	63	Di-n-butylphthalate	149	19.393	19.377	(1.071)	26616	0.23329	0.2333
	64	Fluoranthene	202	20.584	20.538	(0.888)	281037	5.39796	5.398
	65	Pyrene	202	20.994	20.963	(0.906)	402846	7.55869	7.559
$	66	Terphenyl-d14	244	21.265	21.250	(0.918)	190758	4.46738	4.467
	67	Butylbenzylphthalate	149	22.186	22.179	(0.958)	6253	0.23425	0.2342
	68	Benzo(a)anthracene	228	23.139	23.123	(0.999)	99863	2.10547	2.105
*	69	Chrysene-d12	240	23.170	23.154	(1.000)	130041	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.208	23.201	(1.002)	137618	2.98980	2.990
	72	bis(2-Ethylhexyl)phthalate	149	23.208	23.201	(0.959)	178937	4.78126	4.781
*	134	Di-n-octylphthalate-d4	153	24.192	24.184	(1.000)	219906	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	25.005	24.981	(0.971)	215397	4.28690	4.287
	75	Benzo(k)fluoranthene	252	25.036	25.020	(0.972)	162203	3.15316	3.153(M)
	76	Benzo(a)pyrene	252	25.632	25.616	(0.995)	116137	2.70518	2.705
*	77	Perylene-d12	264	25.748	25.725	(1.000)	142987	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.328	28.305	(1.100)	71310	1.31475	1.315
	79	Dibenzo(a,h)anthracene	278	28.336	28.305	(1.101)	18269	0.39113	0.3911
	80	Benzo(g,h,i)perylene	276	29.097	29.058	(1.130)	60001	1.49381	1.494
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.091	13.099	(1.146)	3643	0.07575	0.07575
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.005	24.981	(0.971)	352280	7.20186	7.202
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032313.D
Lab Smp Id: 22L0459-03
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	58140	-10.48
27 Naphthalene-d8	262858	131429	525716	241442	-8.15
42 Acenaphthene-d10	167543	83772	335086	151857	-9.36
59 Phenanthrene-d10	341039	170520	682078	310836	-8.86
69 Chrysene-d12	222731	111366	445462	130041	-41.62
134 Di-n-octylphthala	333425	166713	666850	219906	-34.05
77 Perylene-d12	152721	76361	305442	142987	-6.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.09
27 Naphthalene-d8	11.44	10.94	11.94	11.43	-0.07
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	-0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.10	0.04
69 Chrysene-d12	23.15	22.65	23.65	23.17	0.07
134 Di-n-octylphthala	24.18	23.68	24.68	24.19	0.03
77 Perylene-d12	25.73	25.23	26.23	25.75	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032313.D

Lab ID: 22L0459-03
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 20:21

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

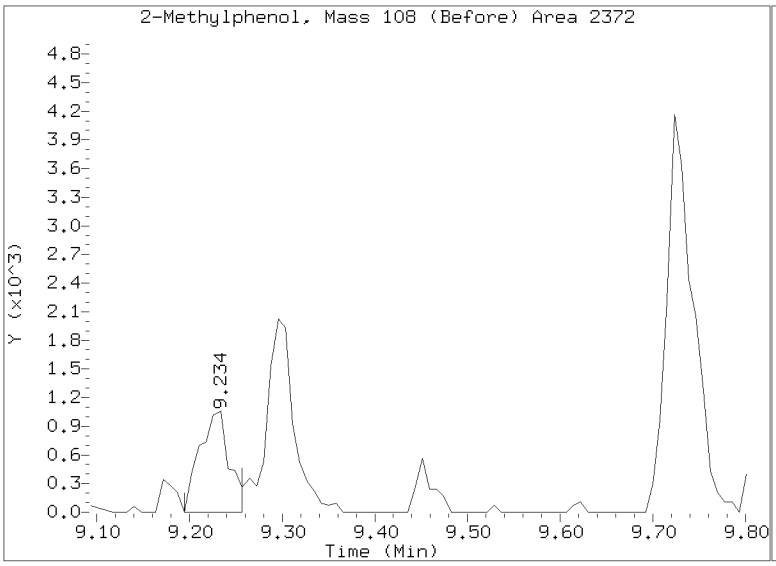
RRT check based on Ccal File: NT1402032303.D

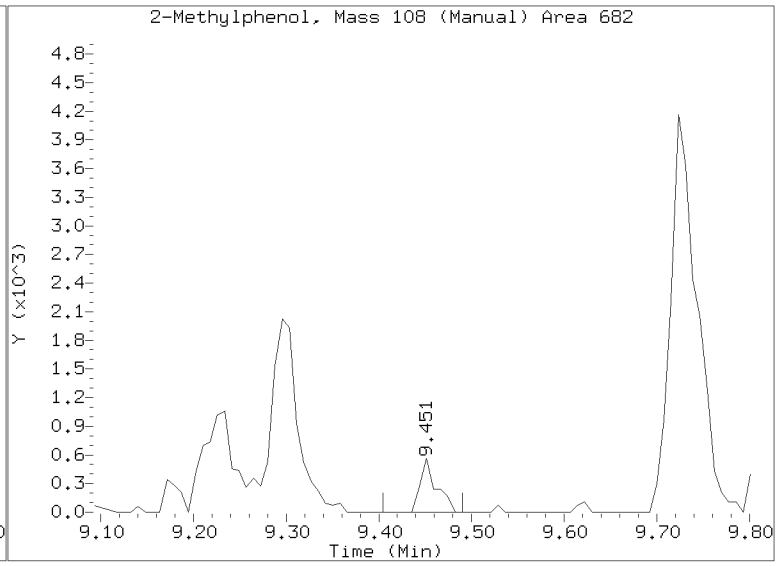
On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

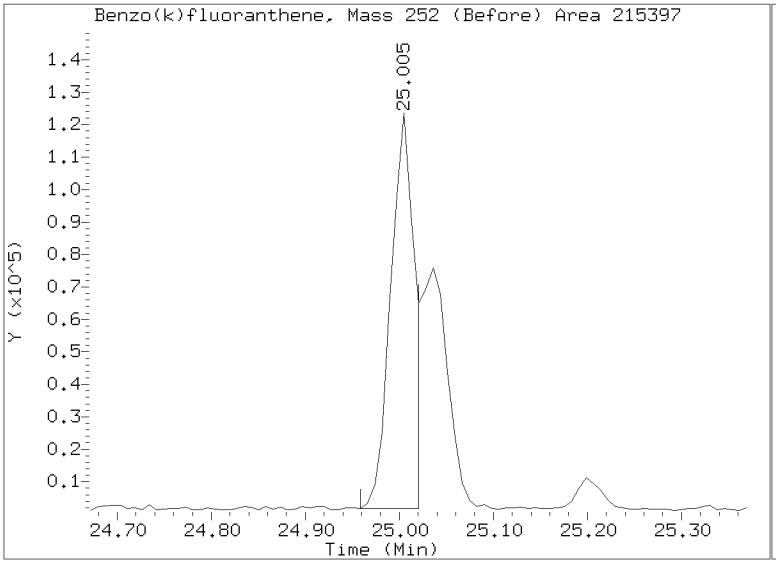
* Only compounds listed in the work order have been verified by the analyst *

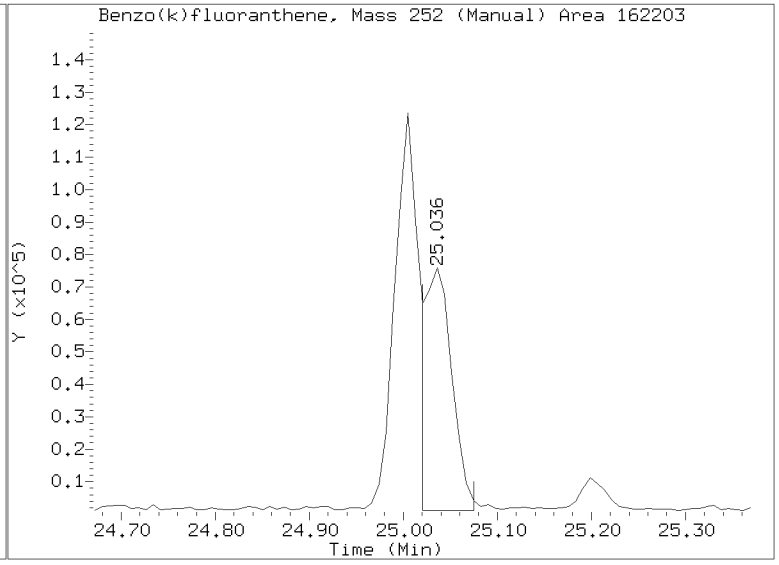
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032313.D
Injection Date: 03-FEB-2023 20:21
Lab ID:22L0459-03 Client ID:
Report Date: 02/04/2023 10:29









Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1007B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-04 A	SDG:	22L0459
Sampled:	12/16/22 10:43	Prepared:	01/05/23 16:13	File ID:	NT1402032314.D
% Solids:	56.35	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 20:57
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	17.8 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	39.1		4.4	19.9
106-44-5	4-Methylphenol	1	53.2		7.4	19.9
91-20-3	Naphthalene	1	20.1		4.2	19.9
91-57-6	2-Methylnaphthalene	1	13.8	J	4.5	19.9
208-96-8	Acenaphthylene	1	8.2	J	6.2	19.9
131-11-3	Dimethylphthalate	1	19.9	U	4.4	19.9
83-32-9	Acenaphthene	1	12.0	J	5.2	19.9
132-64-9	Dibenzofuran	1	19.9	U	14.1	19.9
86-73-7	Fluorene	1	19.9	U	14.5	19.9
85-01-8	Phenanthrene	1	78.0		8.7	19.9
120-12-7	Anthracene	1	29.5		7.2	19.9
206-44-0	Fluoranthene	1	233		6.1	19.9
129-00-0	Pyrene	1	347		5.7	19.9
85-68-7	Butylbenzylphthalate	1	33.5	M	9.4	19.9
56-55-3	Benzo(a)anthracene	1	89.4		5.9	19.9
218-01-9	Chrysene	1	131		6.0	19.9
117-81-7	bis(2-Ethylhexyl)phthalate	1	192		5.4	49.8
	Benzofluoranthenes, Total	1	374		10.0	39.9
50-32-8	Benzo(a)pyrene	1	137		4.2	19.9
193-39-5	Indeno(1,2,3-cd)pyrene	1	75.3		14.6	19.9
53-70-3	Dibenzo(a,h)anthracene	1	22.6		17.2	19.9
191-24-2	Benzo(g,h,i)perylene	1	80.7		13.5	19.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	747.73	403	53.9	27 - 120	
Phenol-d5	747.73	436	58.3	29 - 120	
2-Chlorophenol-d4	747.73	487	65.2	31 - 120	
1,2-Dichlorobenzene-d4	498.49	321	64.4	32 - 120	
Nitrobenzene-d5	498.49	331	66.4	30 - 120	
2-Fluorobiphenyl	498.49	352	70.6	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1007B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

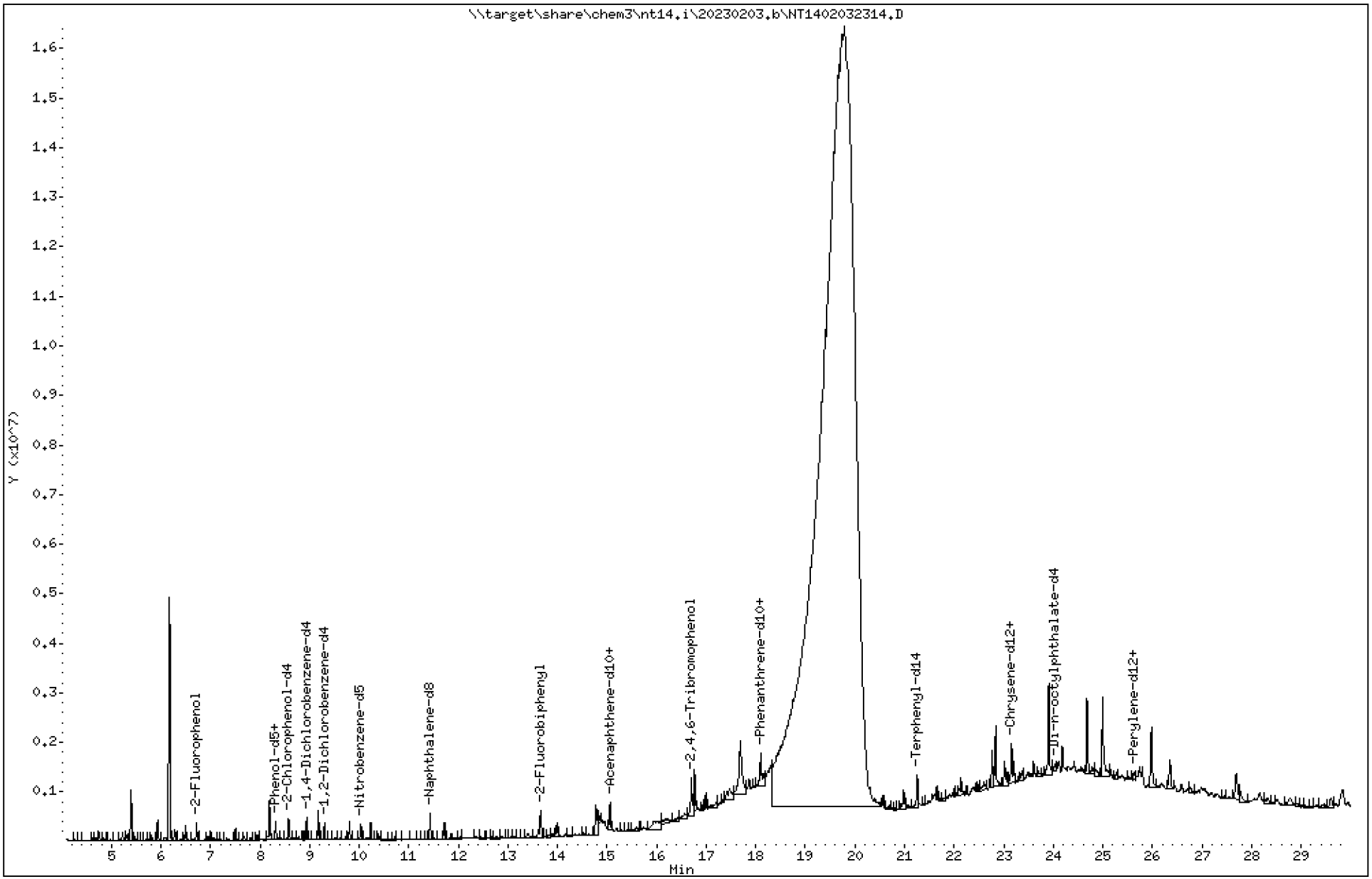
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-04 A	SDG:	22L0459
Sampled:	12/16/22 10:43	Prepared:	01/05/23 16:13	File ID:	NT1402032314.D
% Solids:	56.35	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 20:57
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	17.8 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	747.73	566	75.7	24 - 134	
p-Terphenyl-d14	498.49	444	89.1	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032314.D
Date : 03-FEB-2023 20:57
Client ID:
Sample Info: 22L0459-04

Instrument: nt14.i
Operator: DSD
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

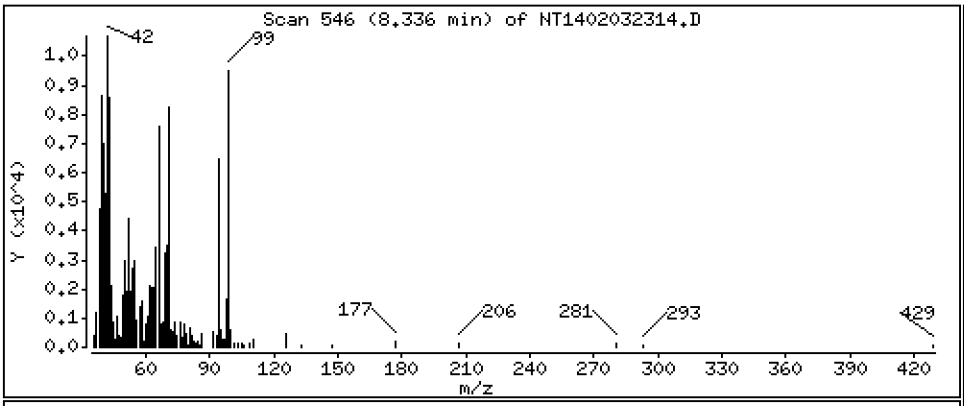
Operator: DSD

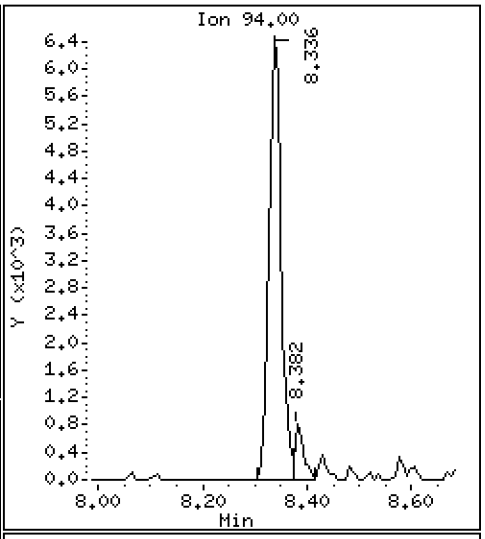
Column phase: ZB-5msi

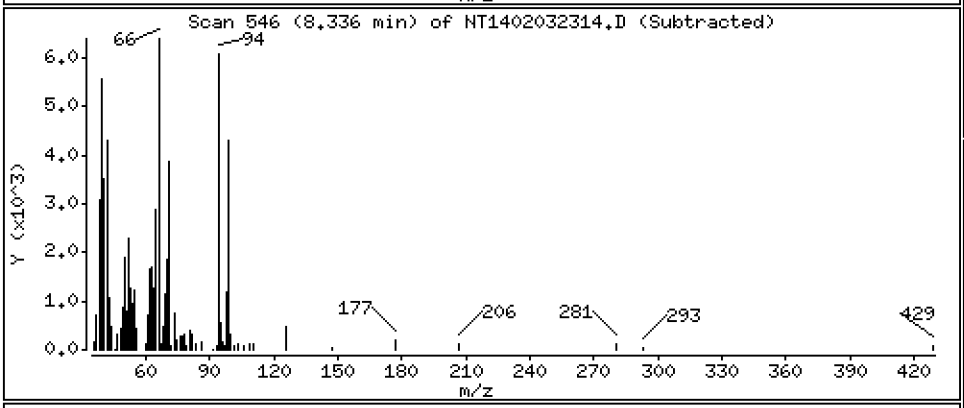
Column diameter: 0.25

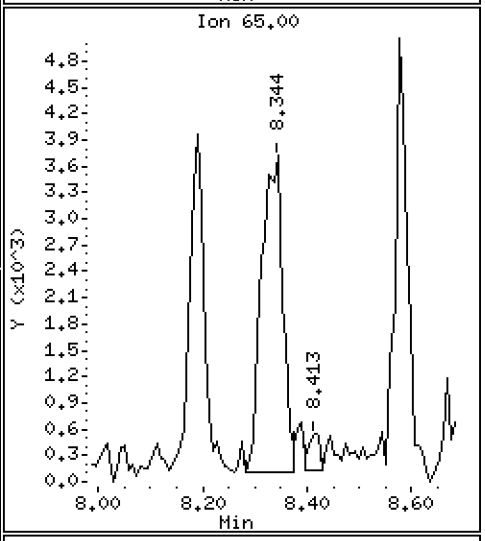
3 Phenol

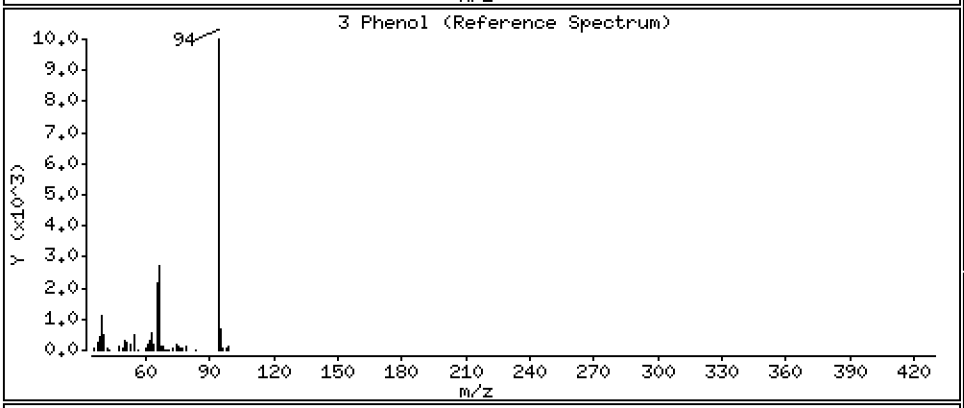
Concentration: 0.3921 ug/mL

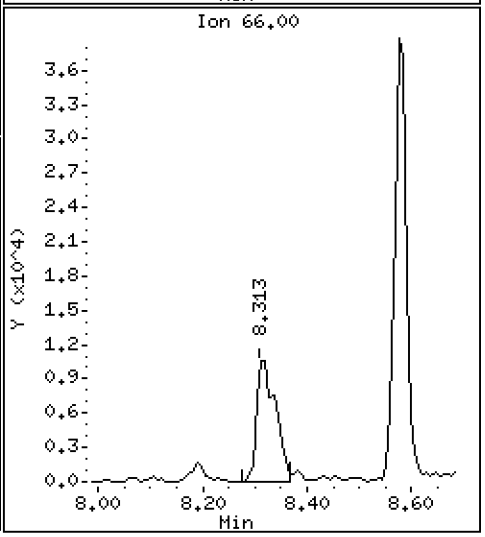


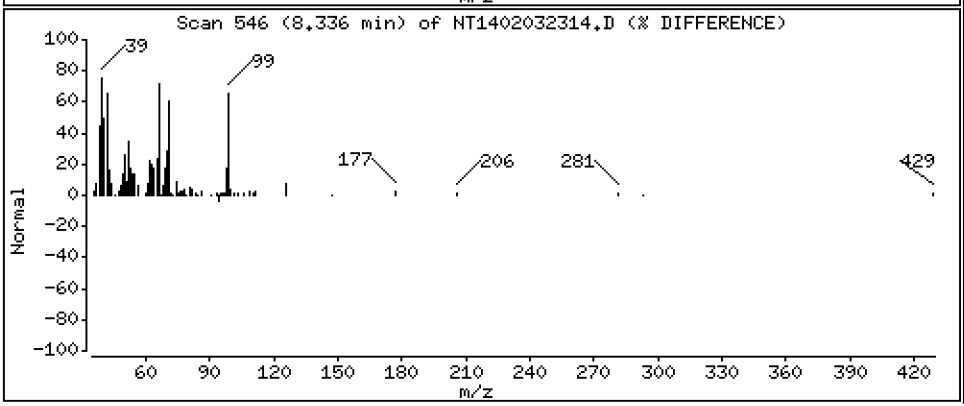












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

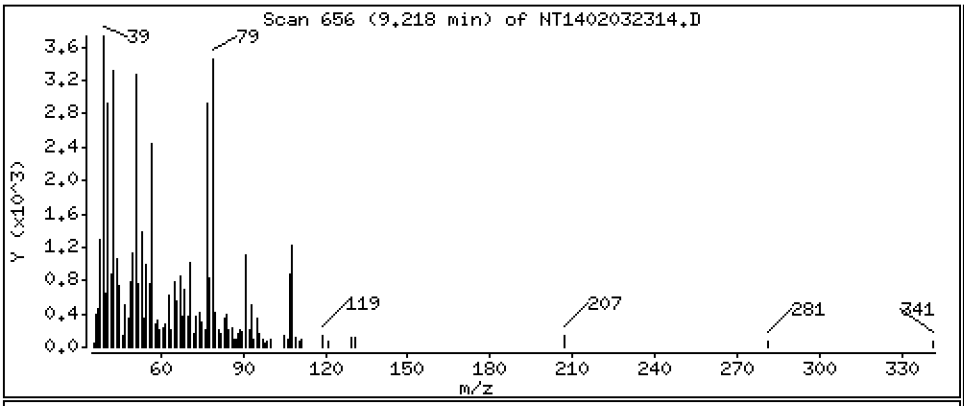
Operator: DSD

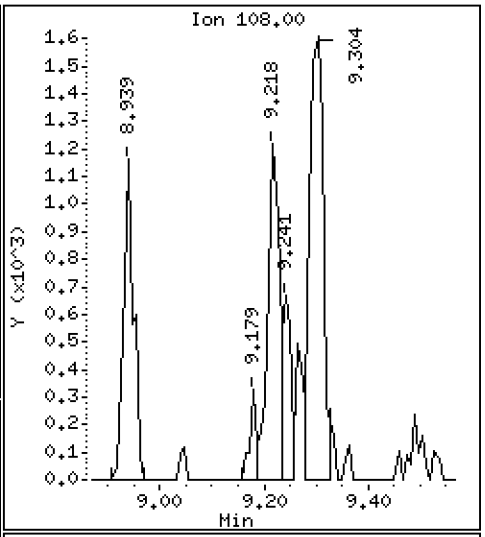
Column phase: ZB-5msi

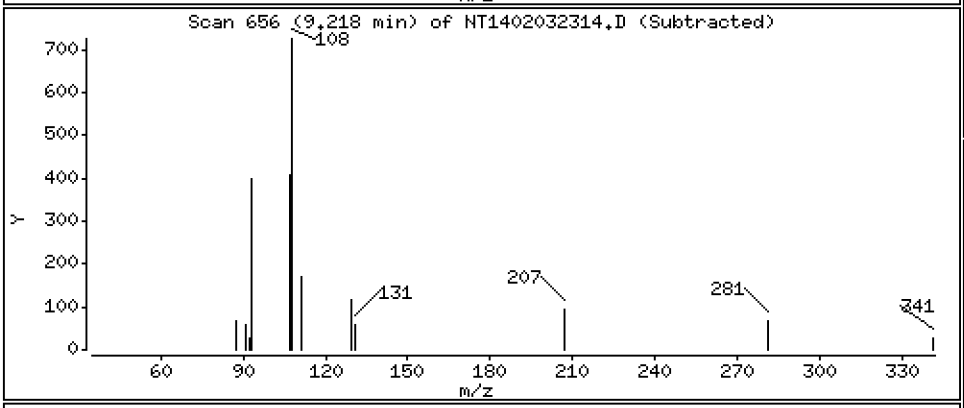
Column diameter: 0.25

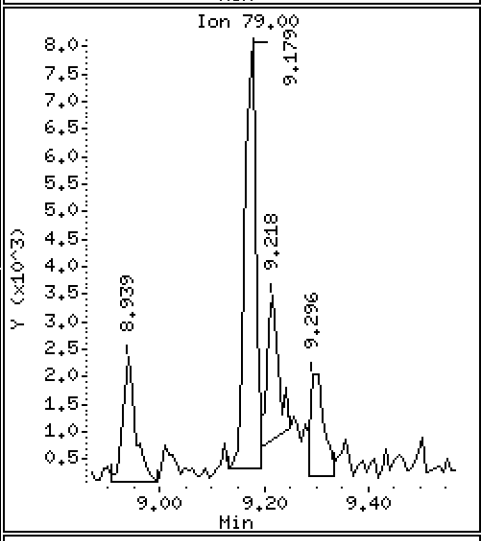
11 Benzyl alcohol

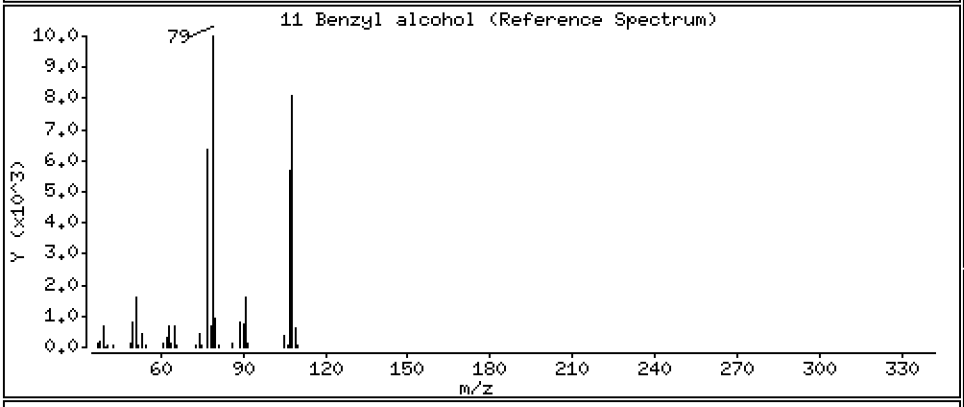
Concentration: 0.1492 ug/mL

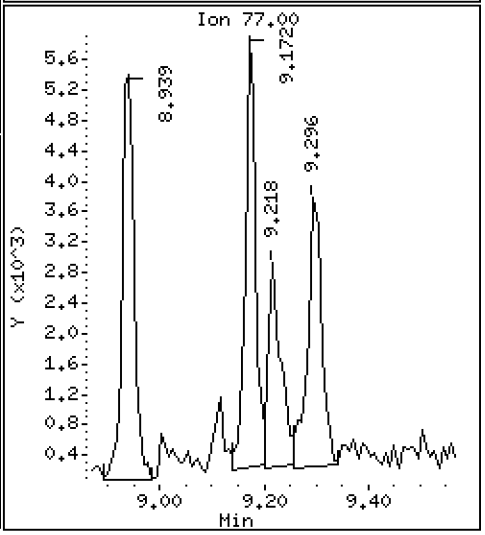


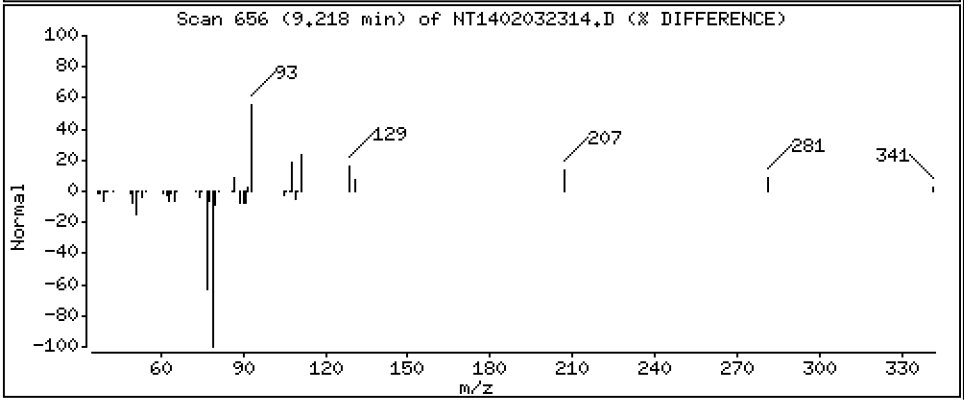












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

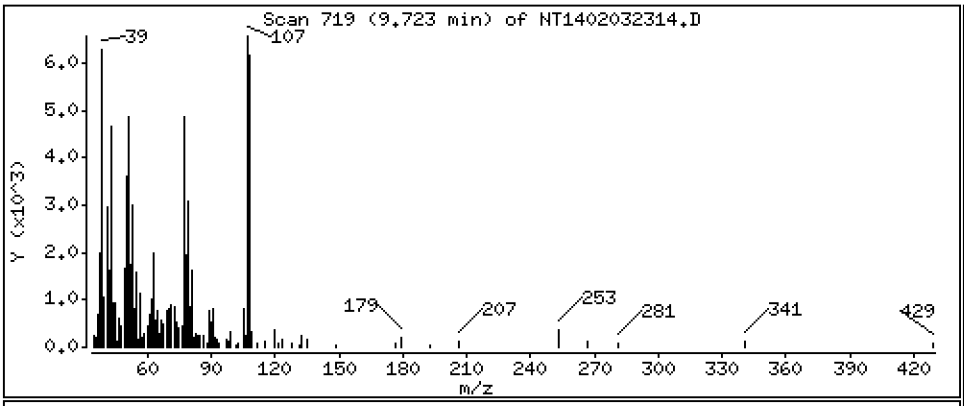
Operator: DSD

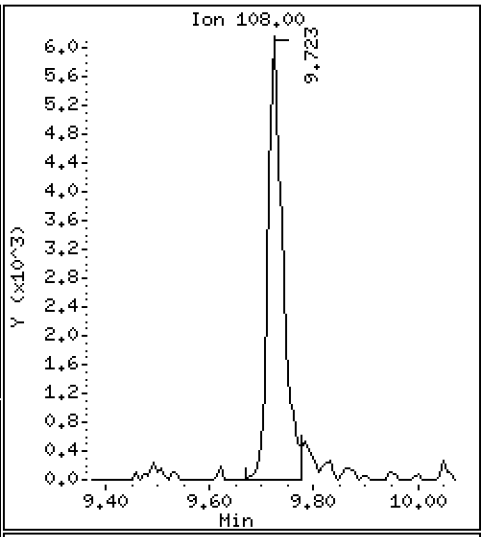
Column phase: ZB-5msi

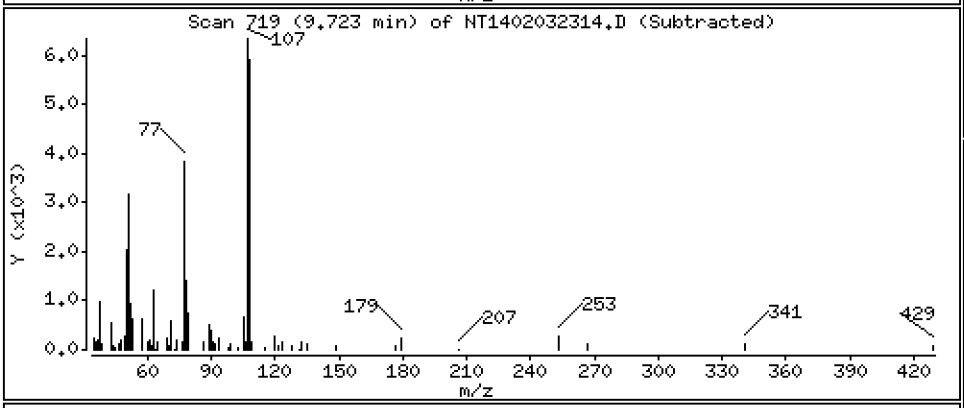
Column diameter: 0.25

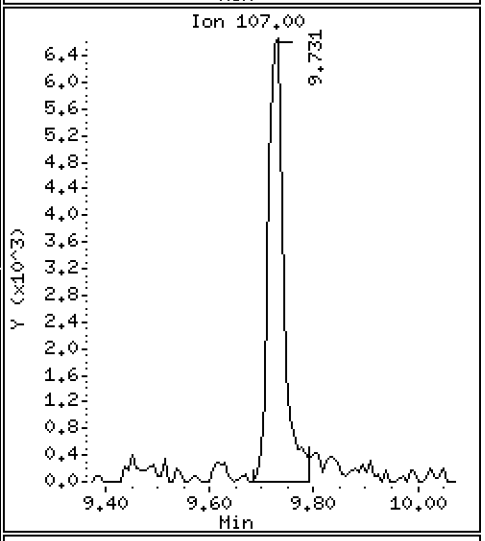
15 4-Methylphenol

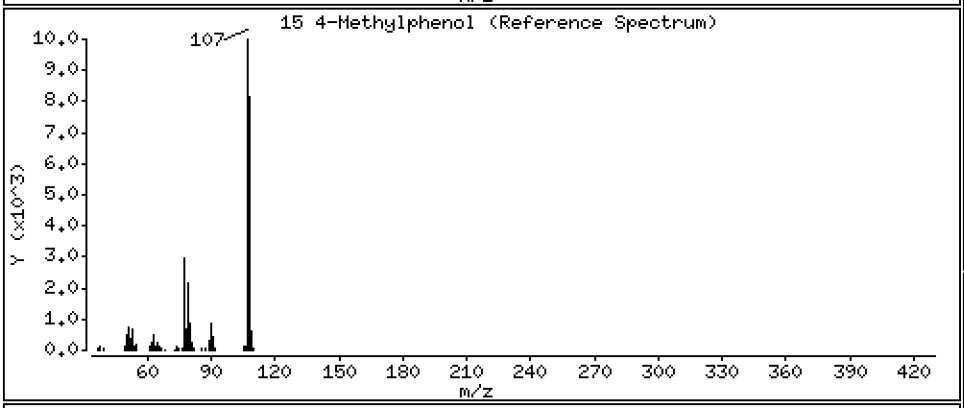
Concentration: 0.5338 ug/mL

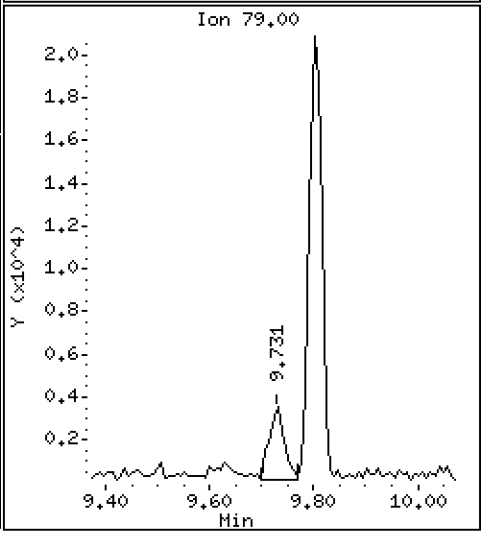


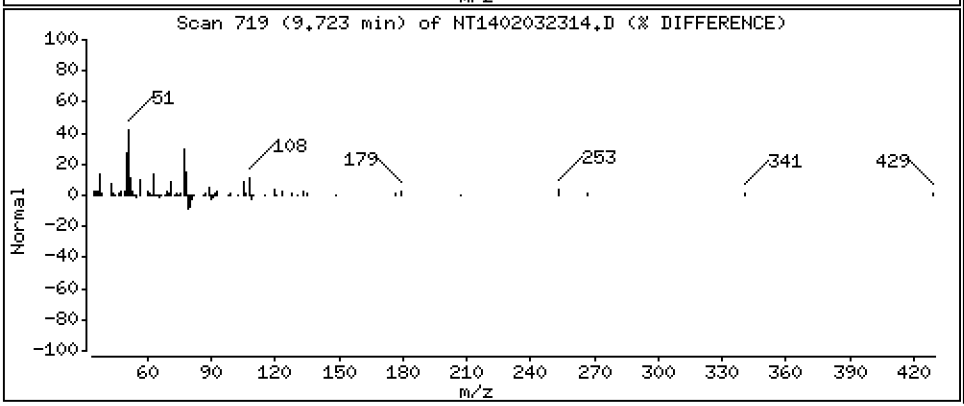












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

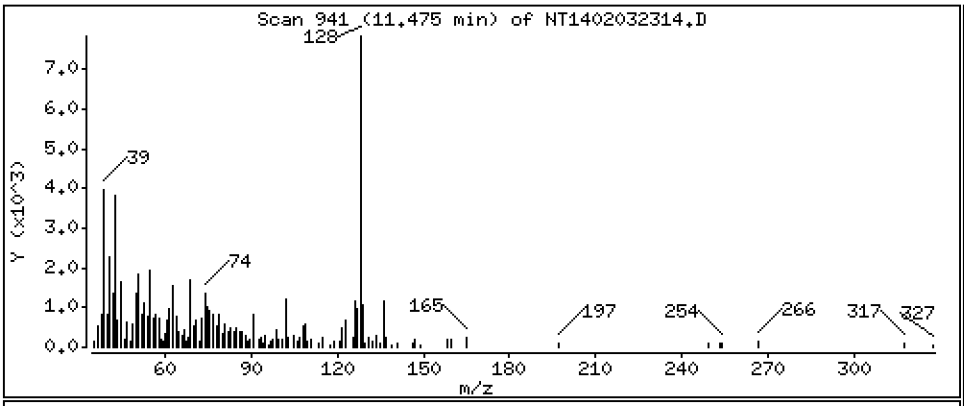
Operator: DSD

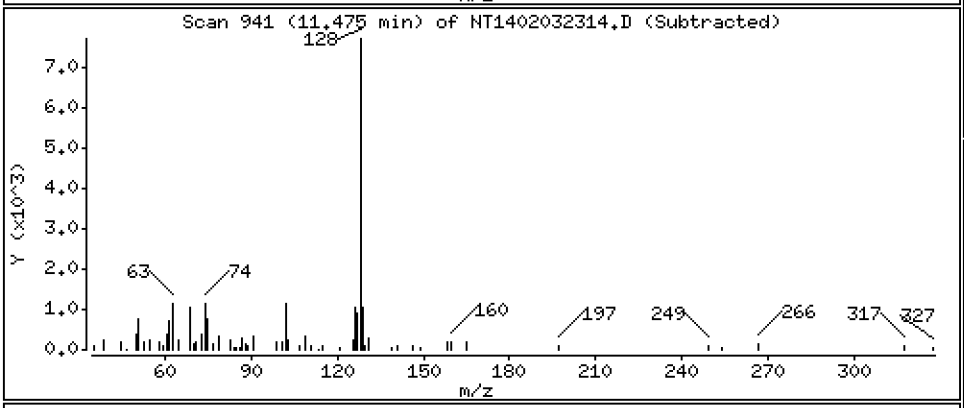
Column phase: ZB-5msi

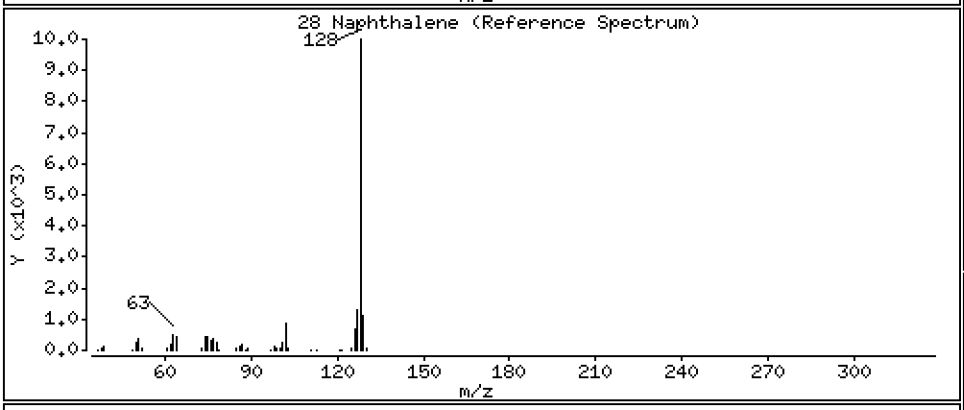
Column diameter: 0.25

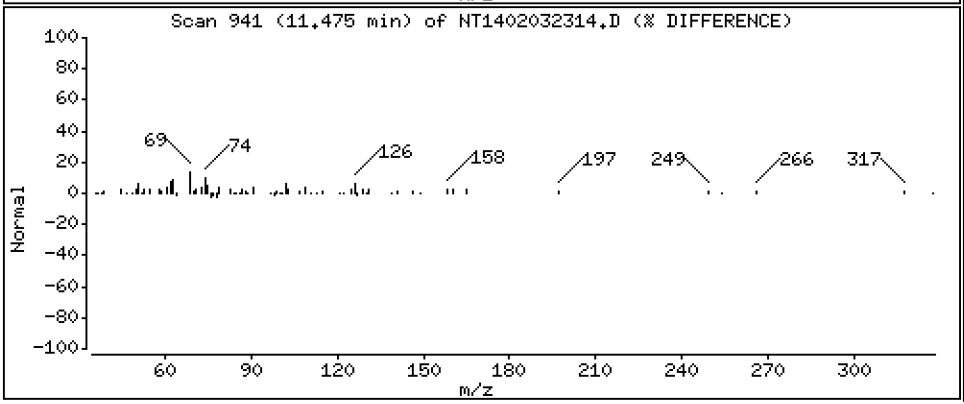
28 Naphthalene

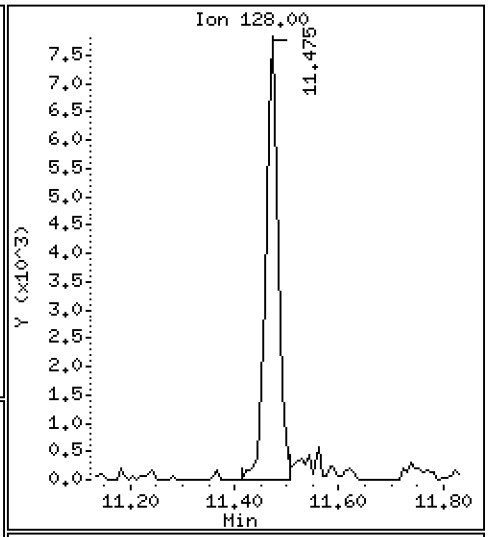
Concentration: 0.2015 ug/mL

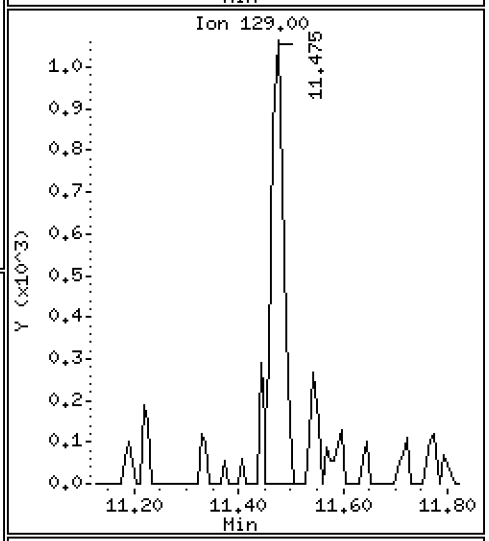


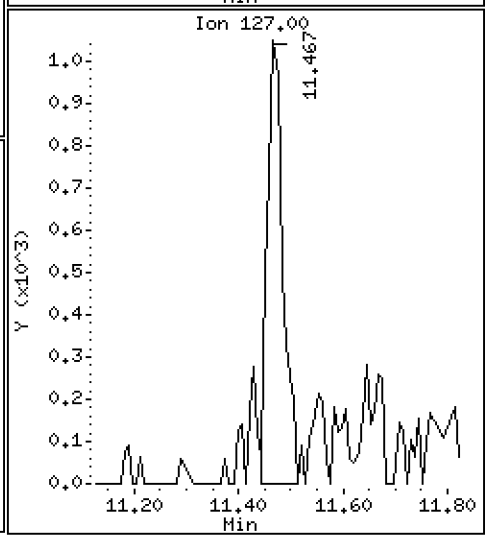












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032314.D

Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

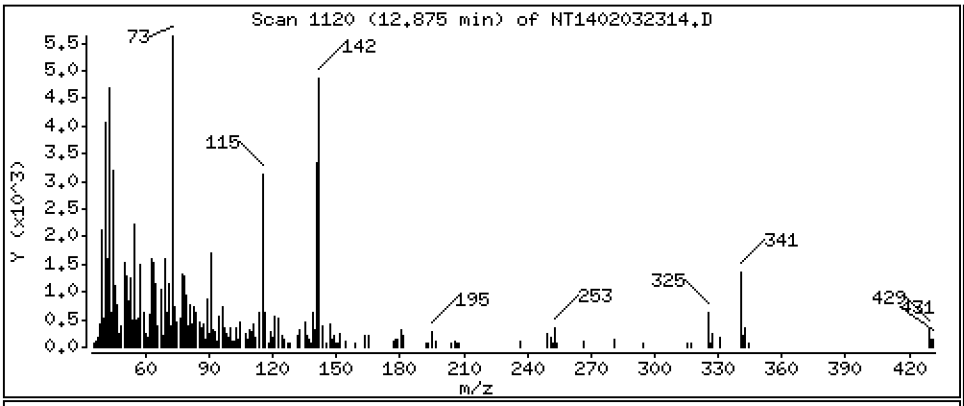
Operator: DSD

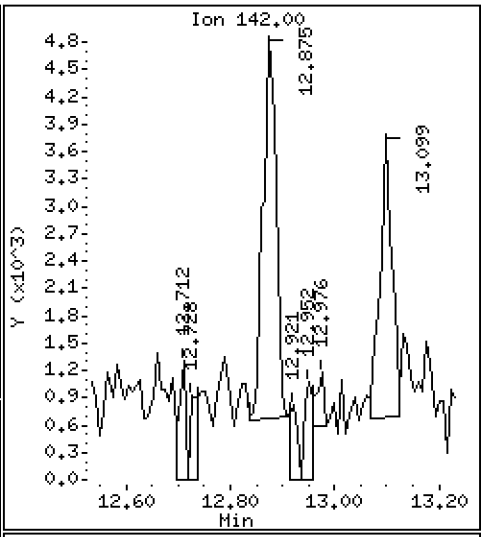
Column phase: ZB-5msi

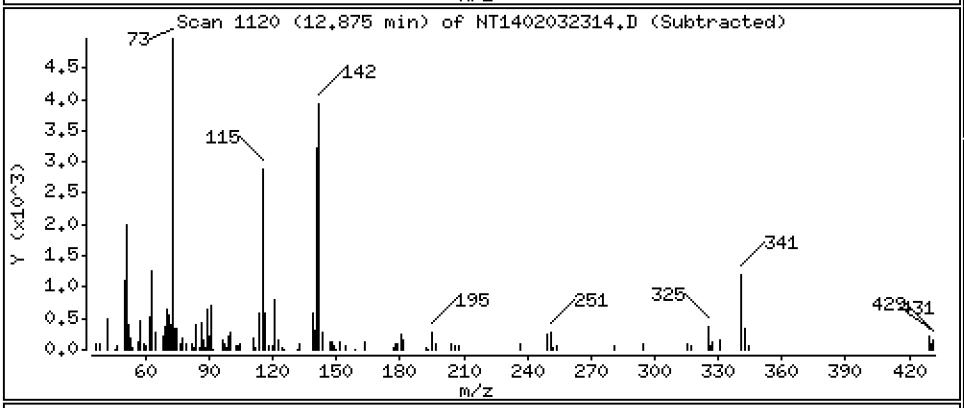
Column diameter: 0.25

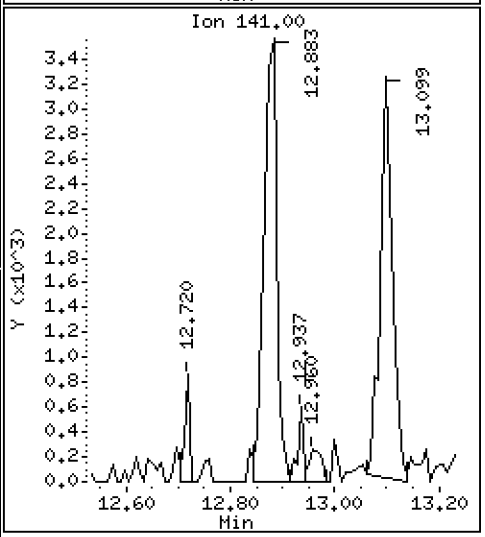
32 2-Methylnaphthalene

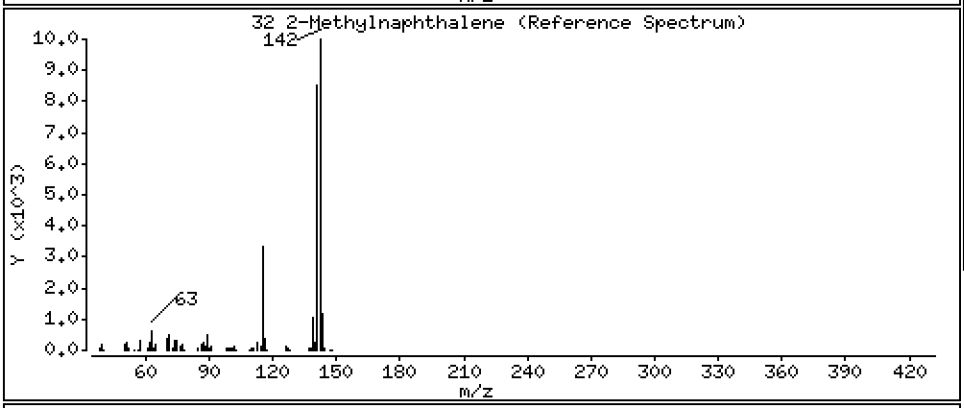
Concentration: 0.1386 ug/mL

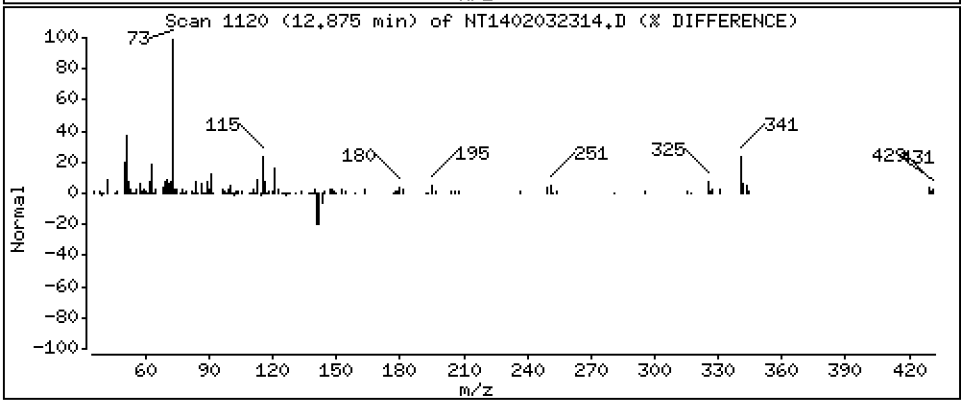












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032314.D

Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

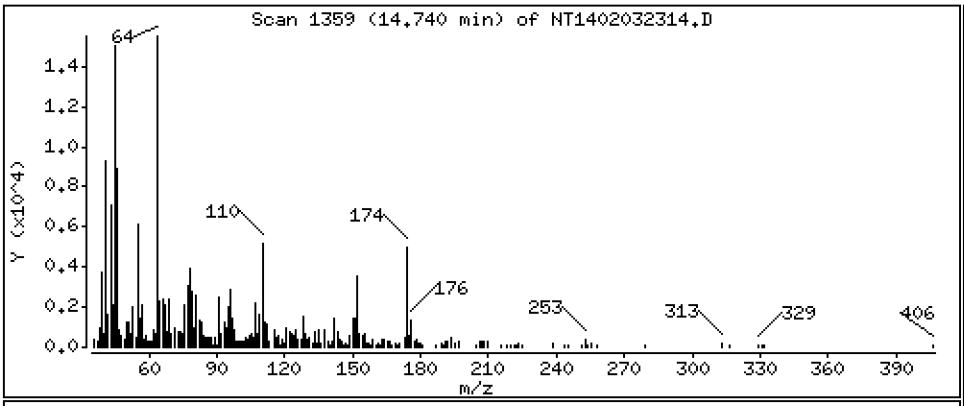
Operator: DSD

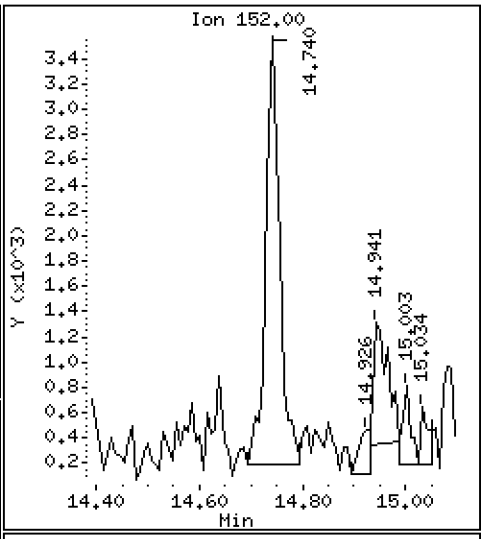
Column phase: ZB-5msi

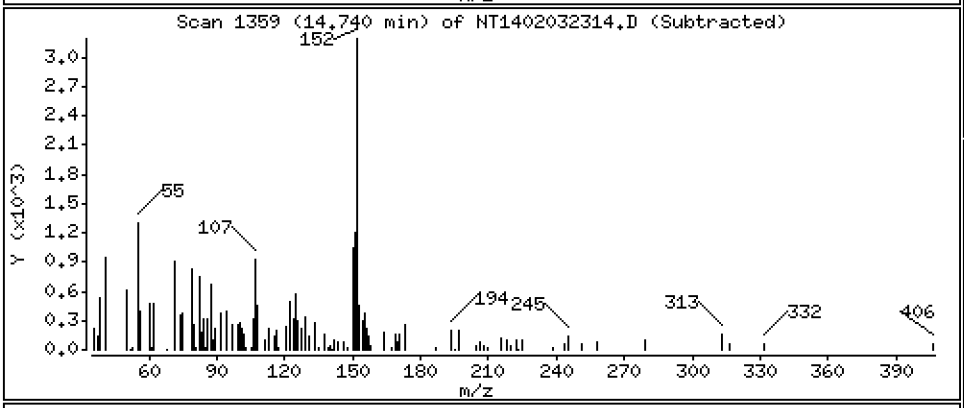
Column diameter: 0.25

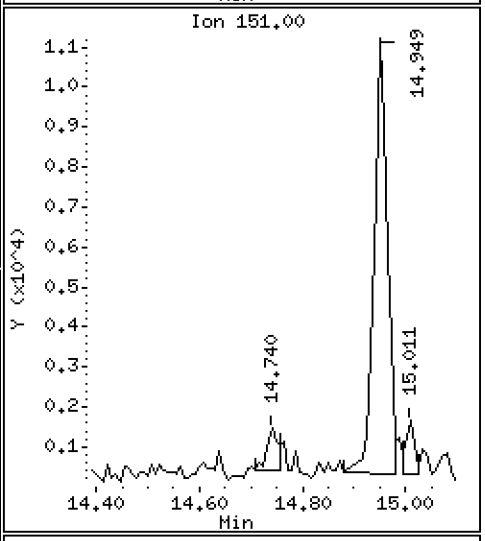
40 Acenaphthylene

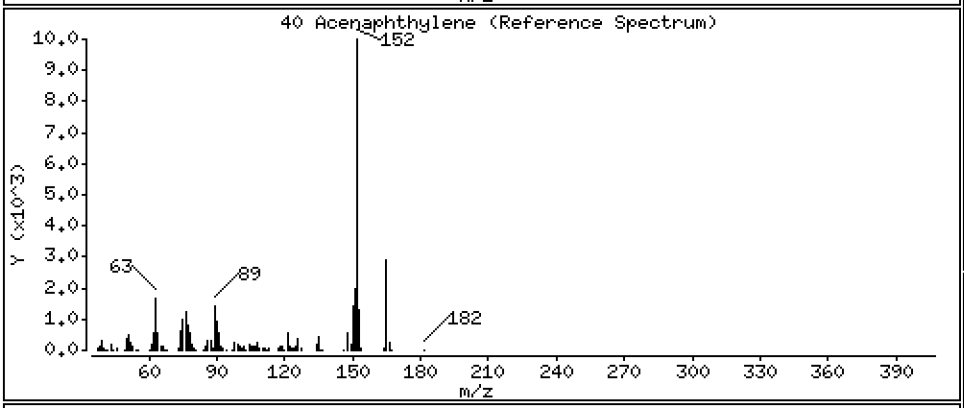
Concentration: 0.08231 ug/mL

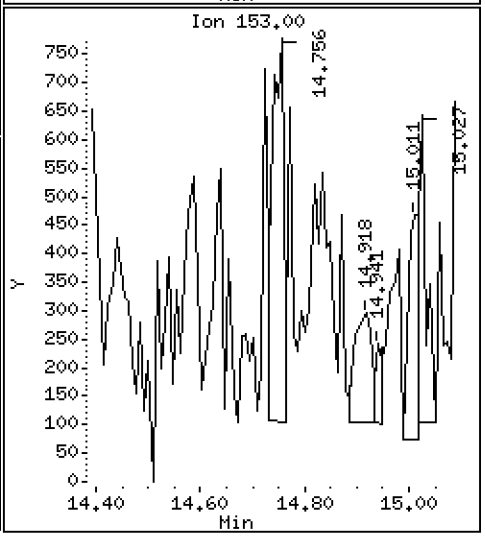


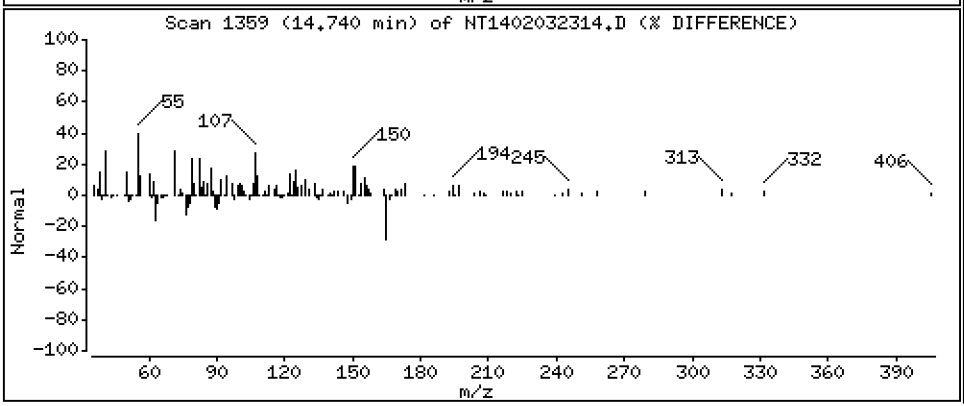












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

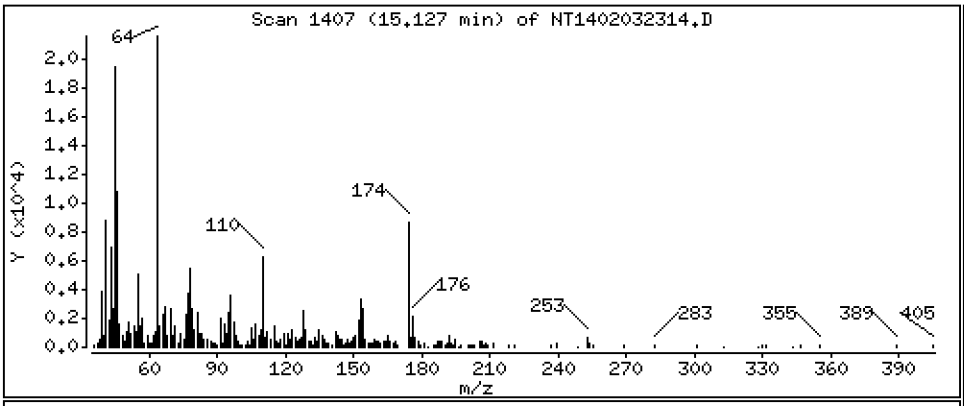
Operator: DSD

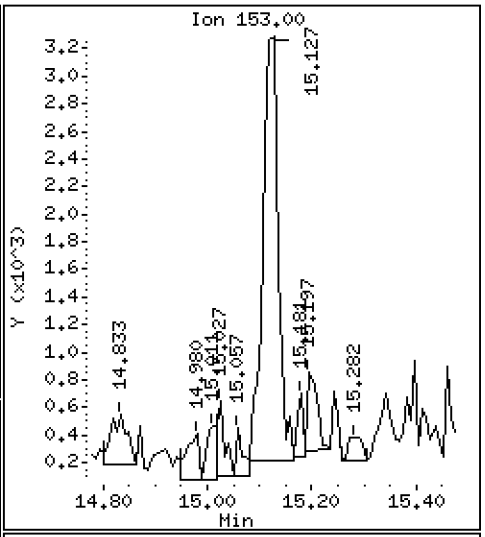
Column phase: ZB-5msi

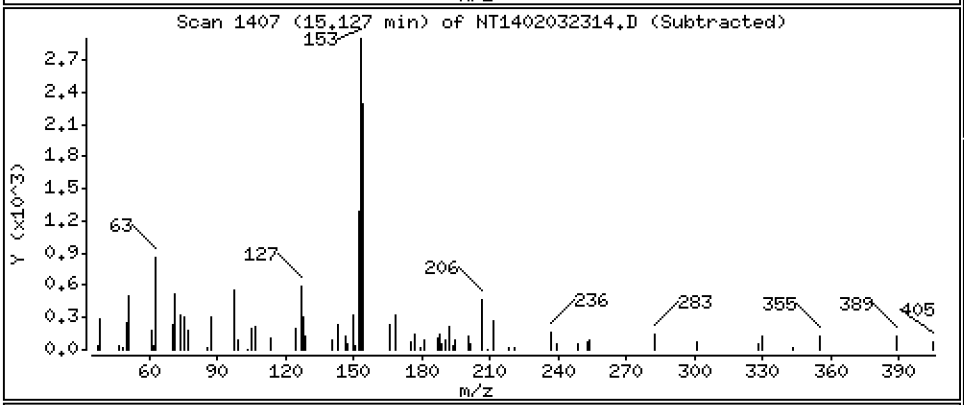
Column diameter: 0.25

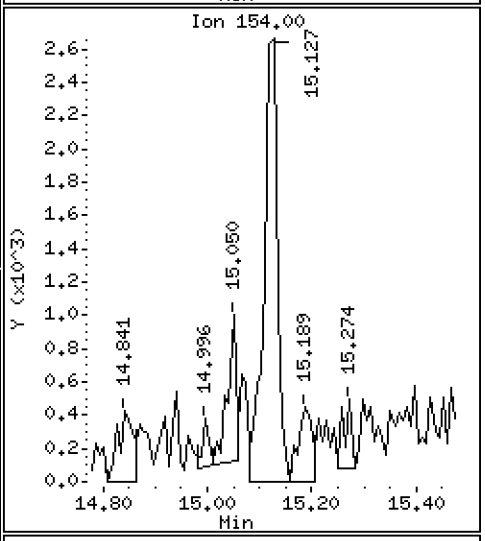
44 Acenaphthene

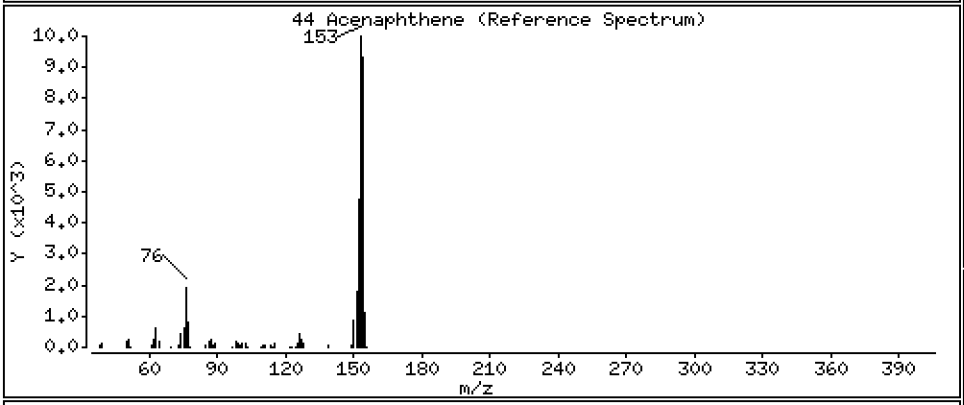
Concentration: 0.1206 ug/mL

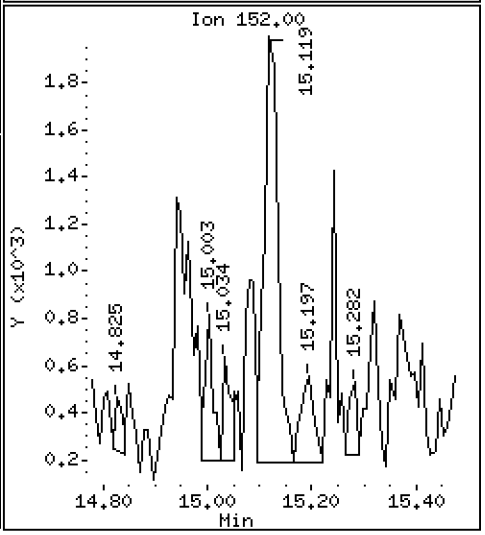


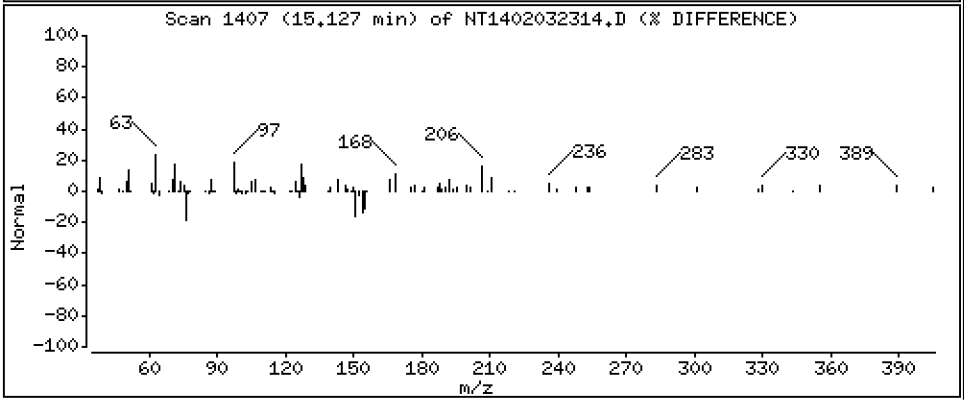












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

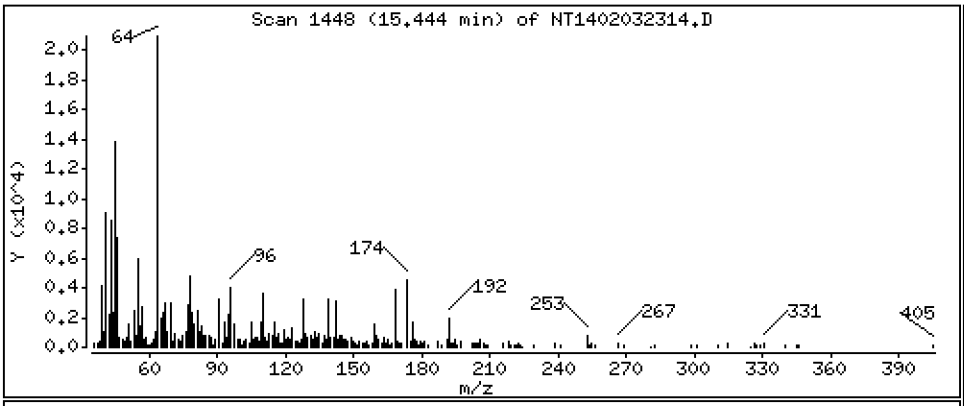
Operator: DSD

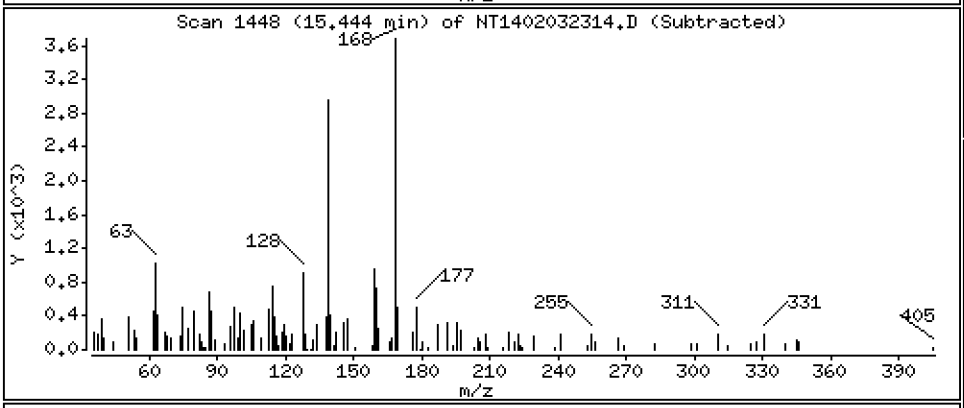
Column phase: ZB-5msi

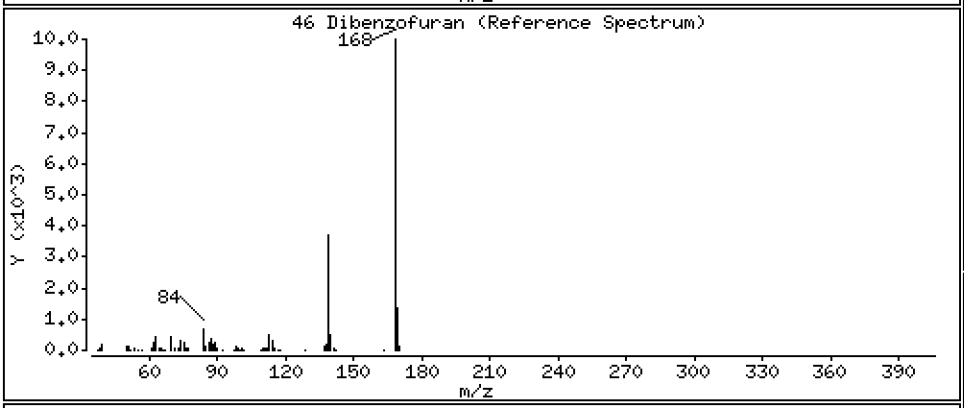
Column diameter: 0.25

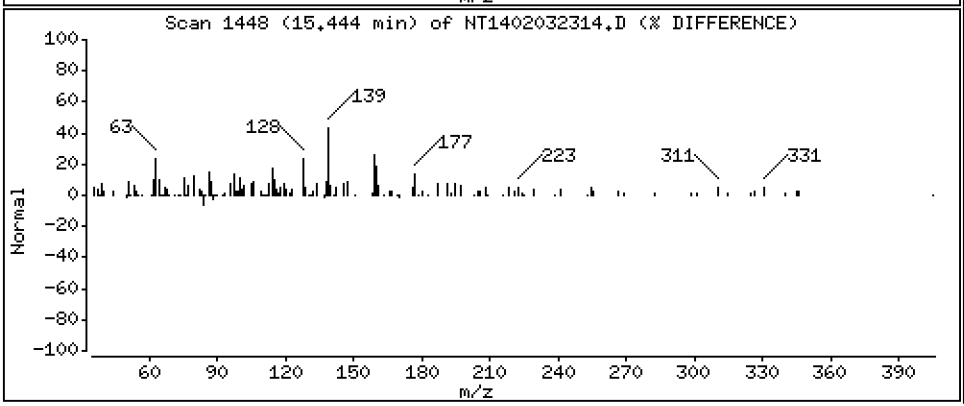
46 Dibenzofuran

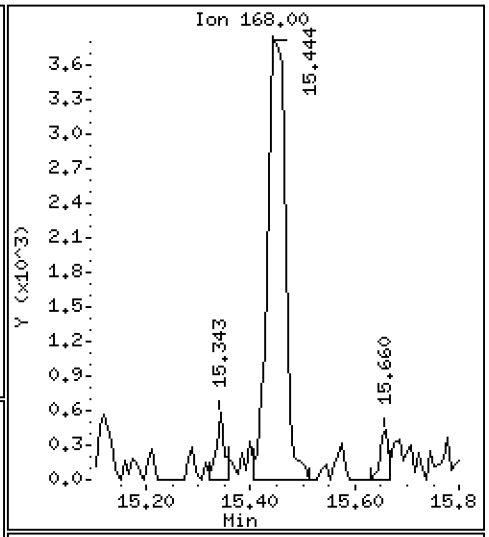
Concentration: 0.1229 ug/mL

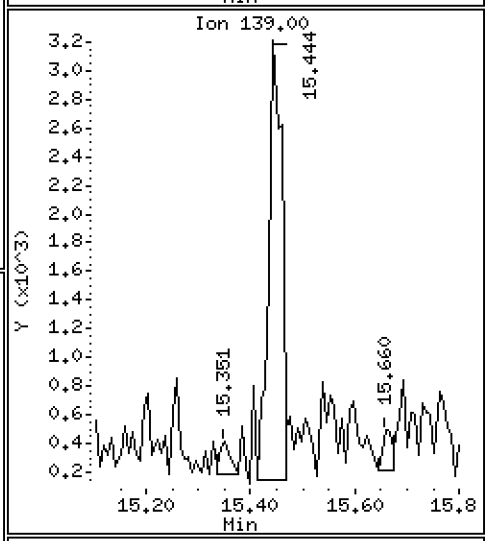


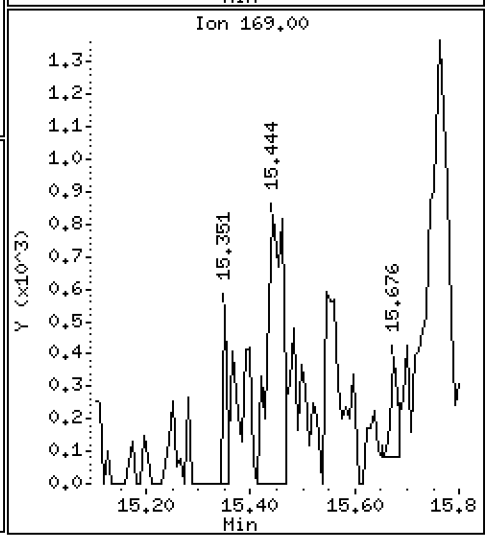












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

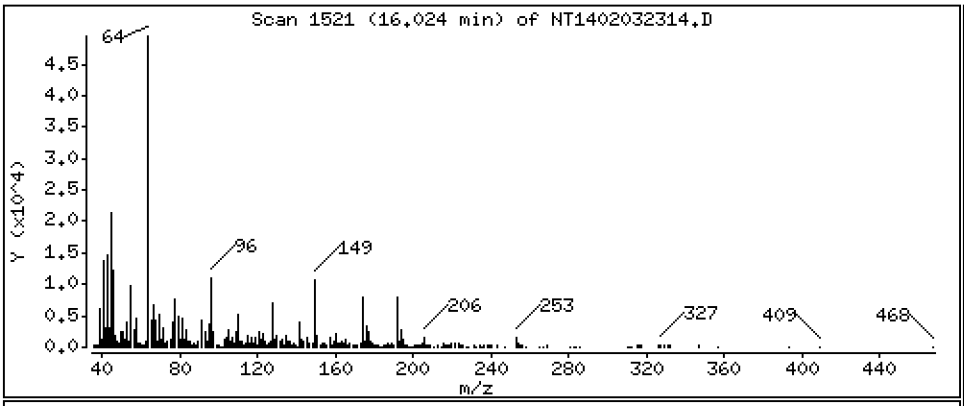
Operator: DSD

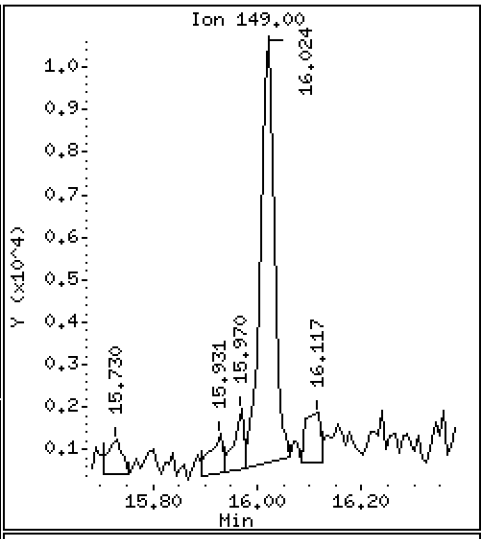
Column phase: ZB-5msi

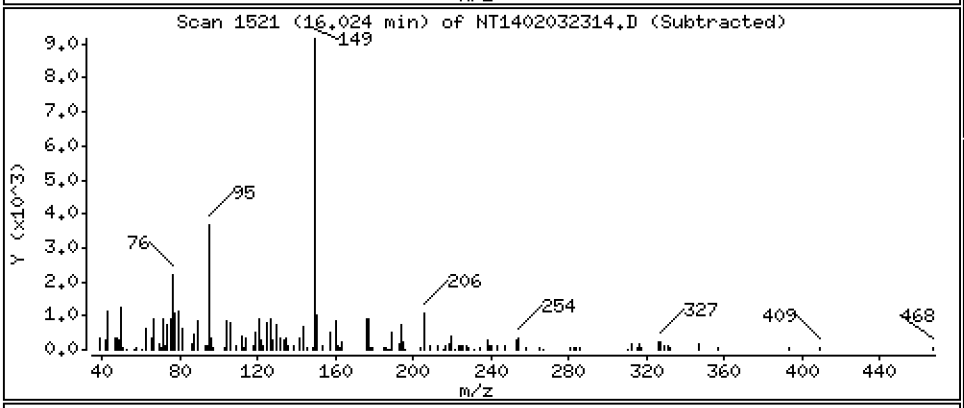
Column diameter: 0.25

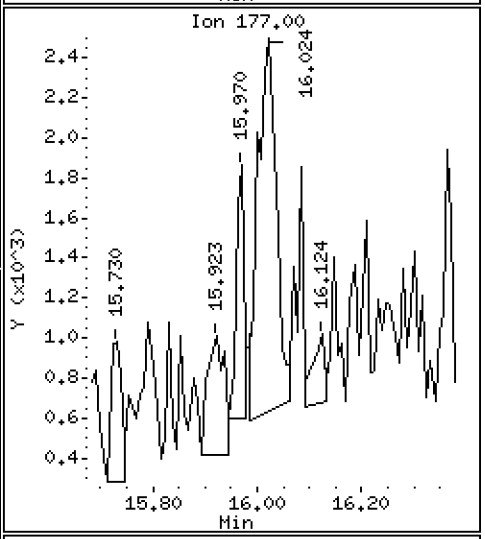
50 Diethylphthalate

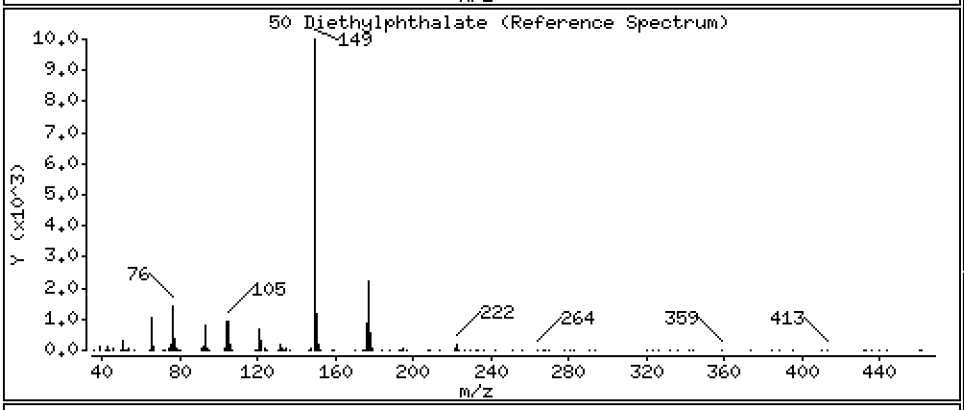
Concentration: 0.2010 ug/mL

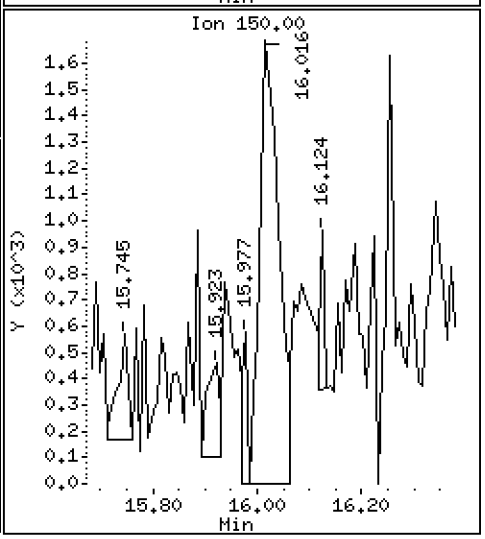


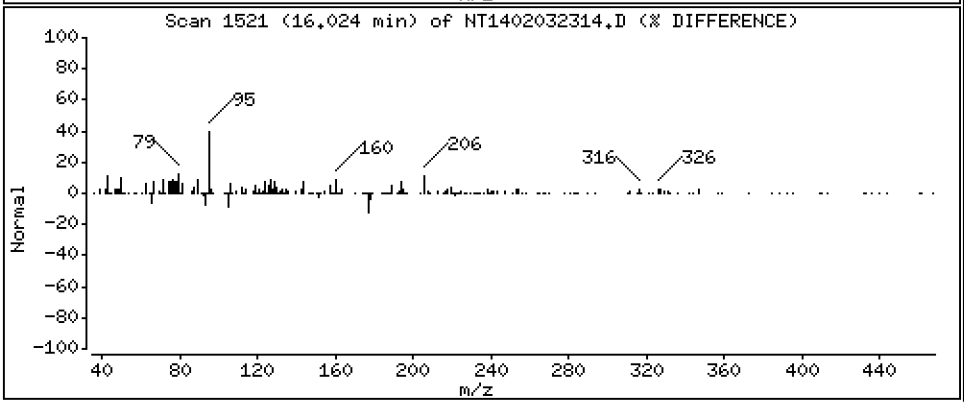












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

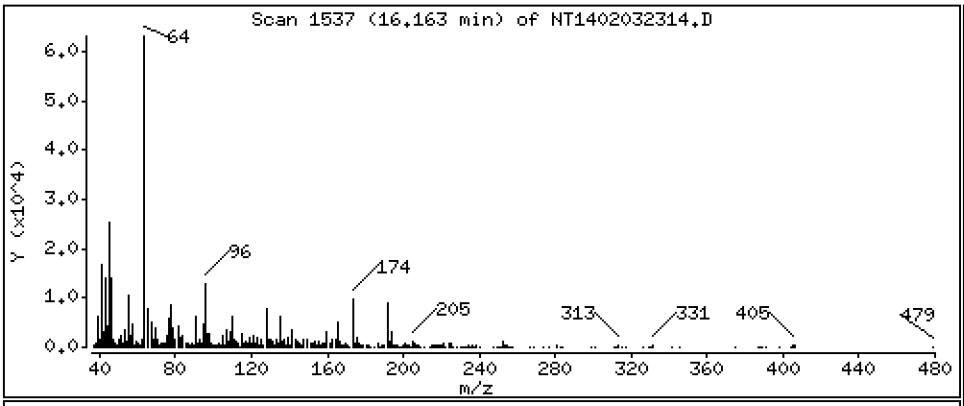
Operator: DSD

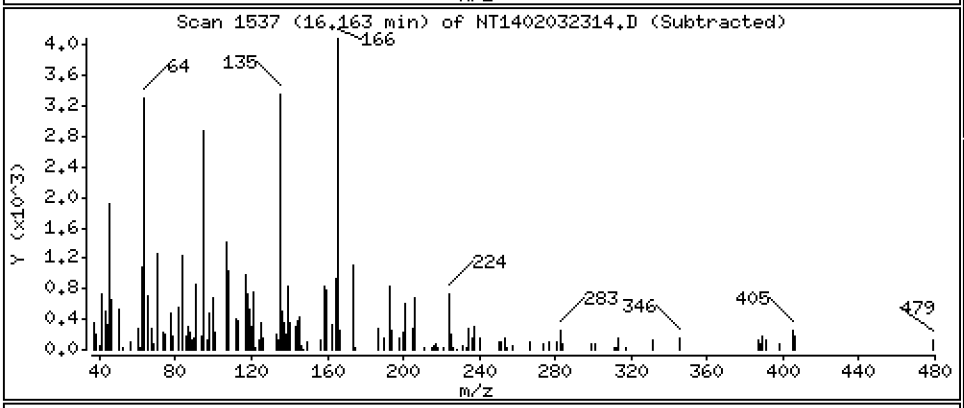
Column phase: ZB-5msi

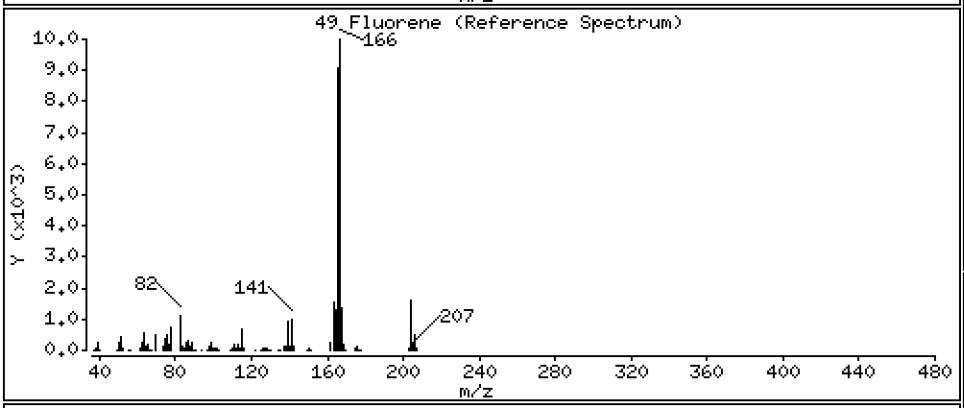
Column diameter: 0.25

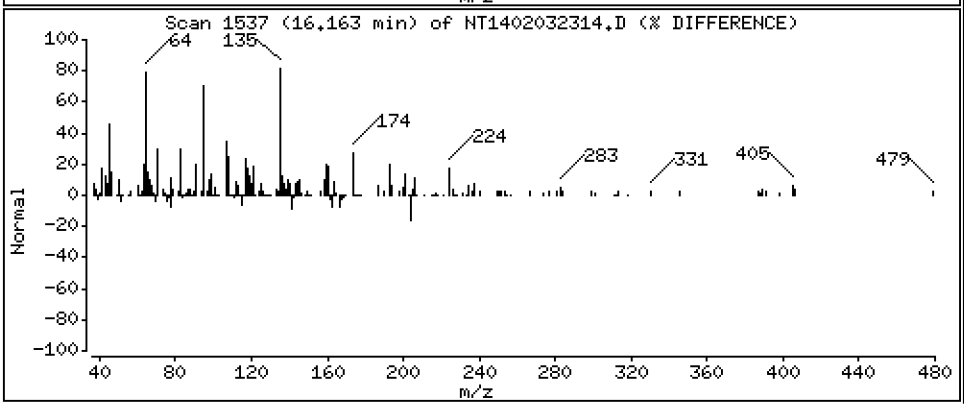
49 Fluorene

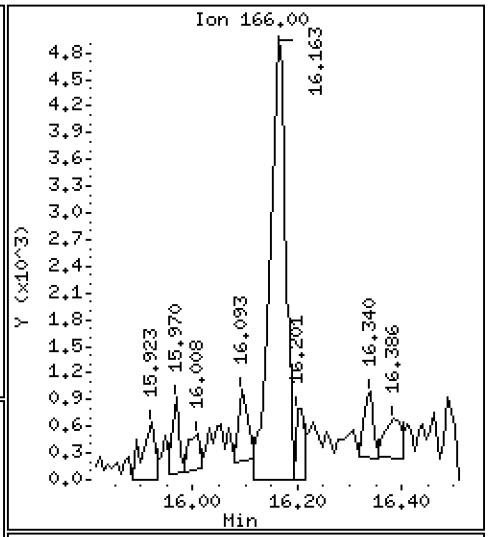
Concentration: 0.1151 ug/mL

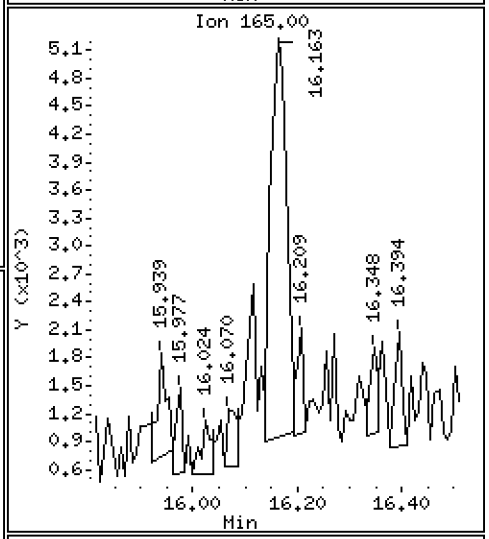


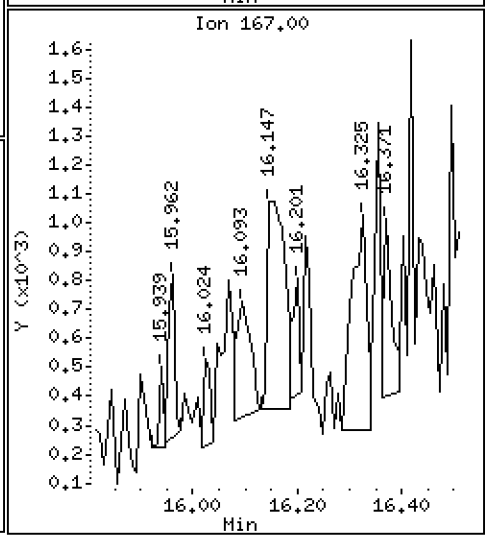












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

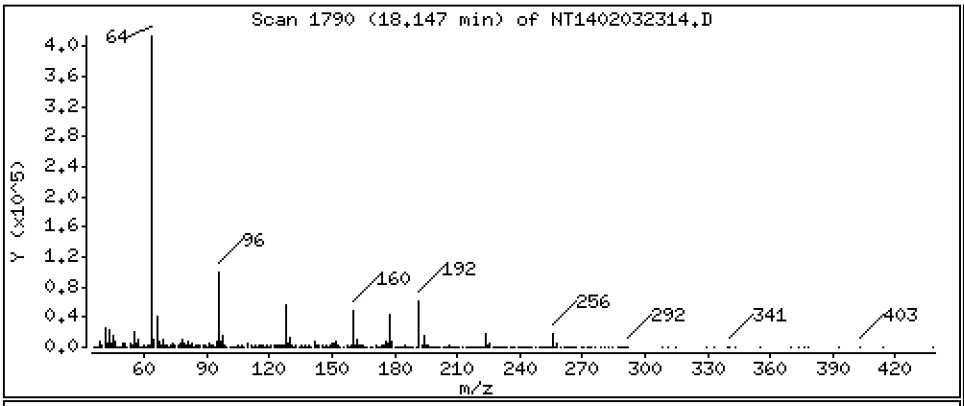
Operator: DSD

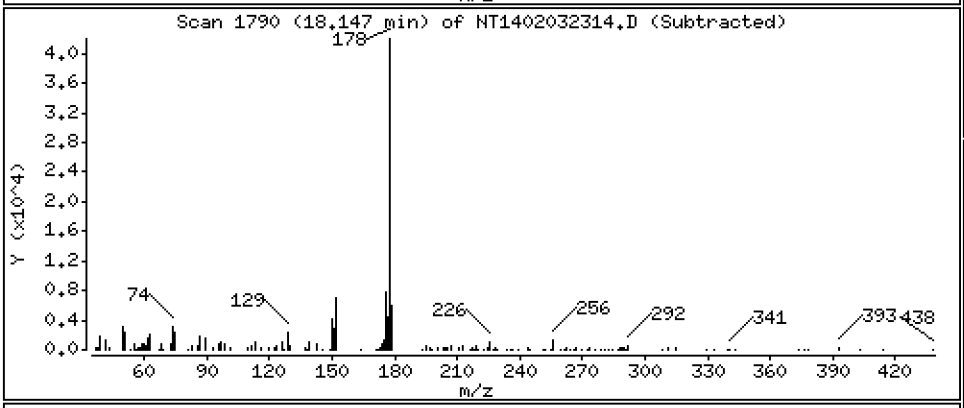
Column phase: ZB-5msi

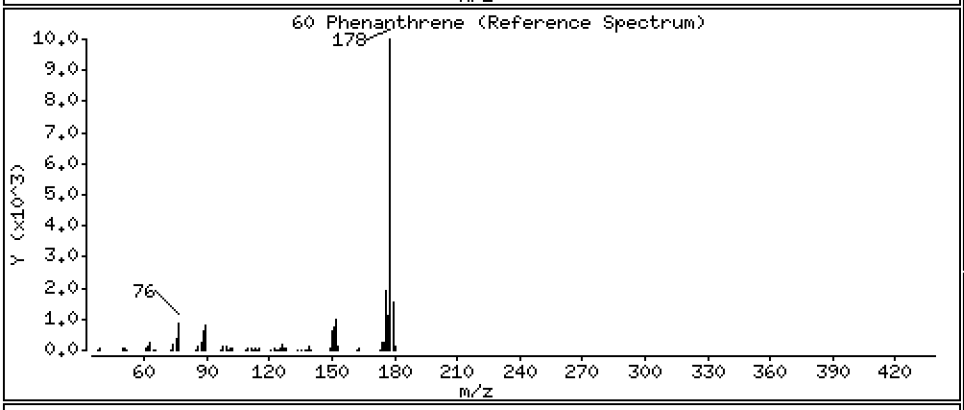
Column diameter: 0.25

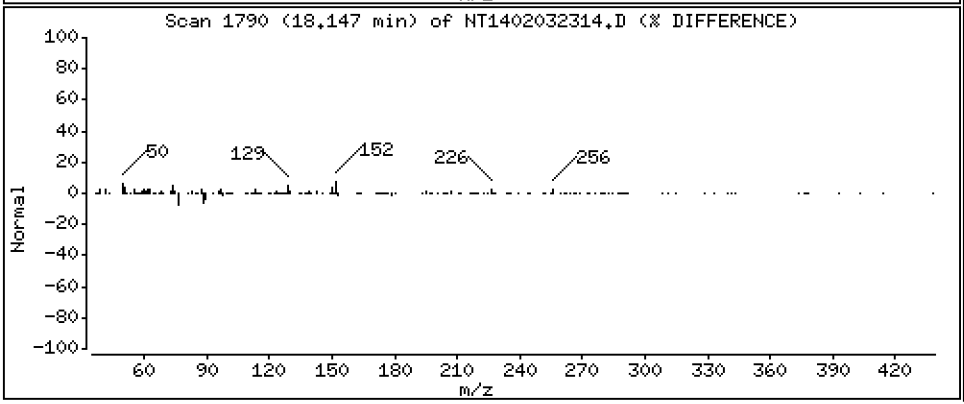
60 Phenanthrene

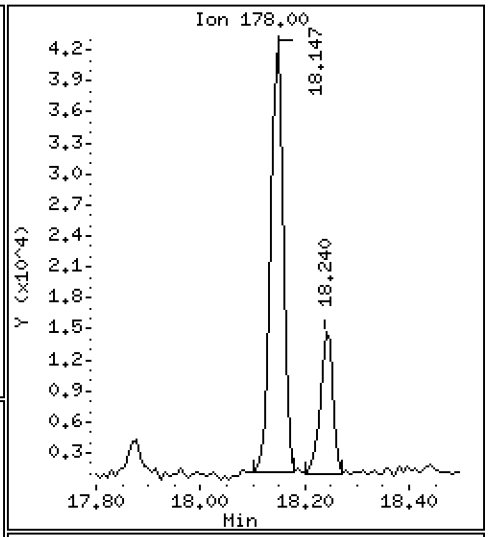
Concentration: 0.7825 ug/mL

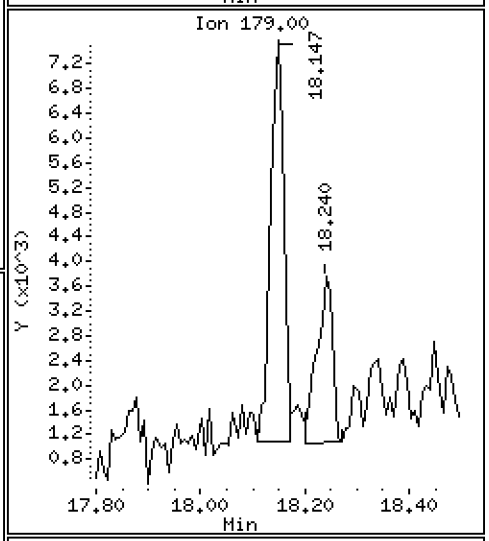


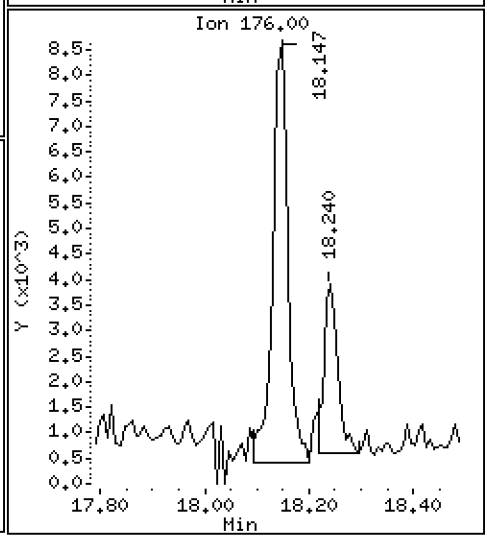












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

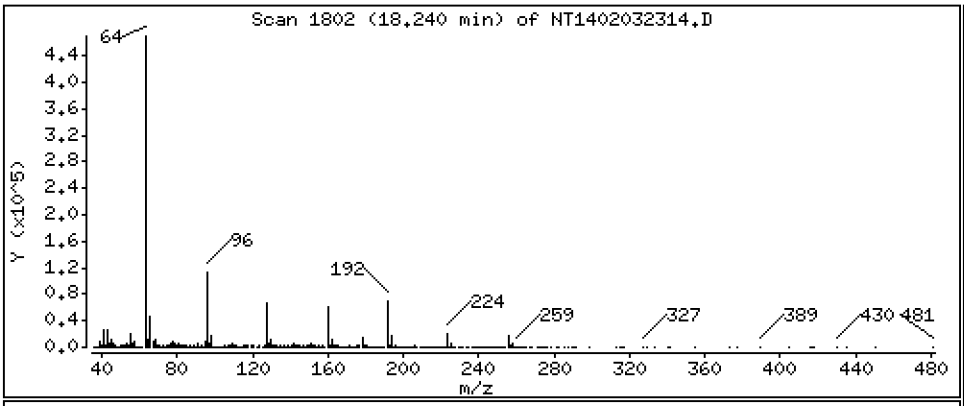
Operator: DSD

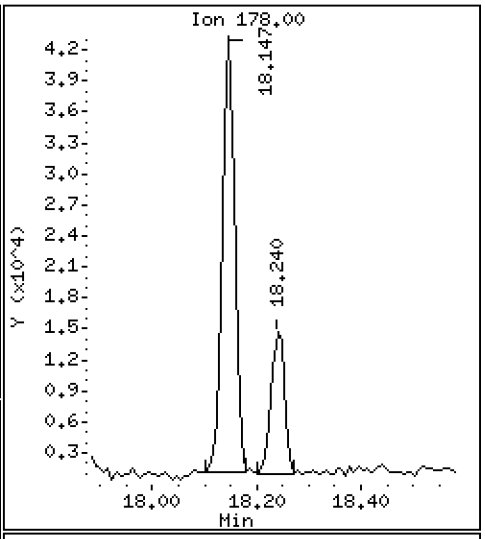
Column phase: ZB-5msi

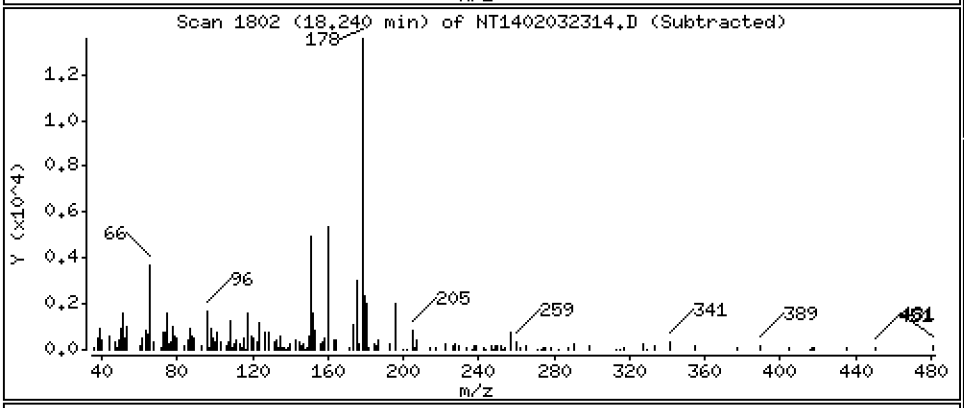
Column diameter: 0.25

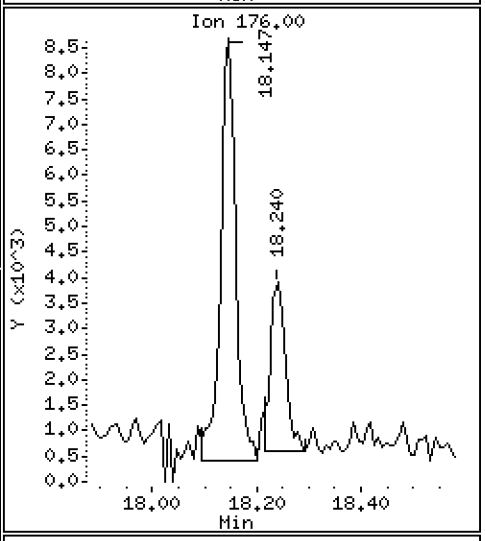
61 Anthracene

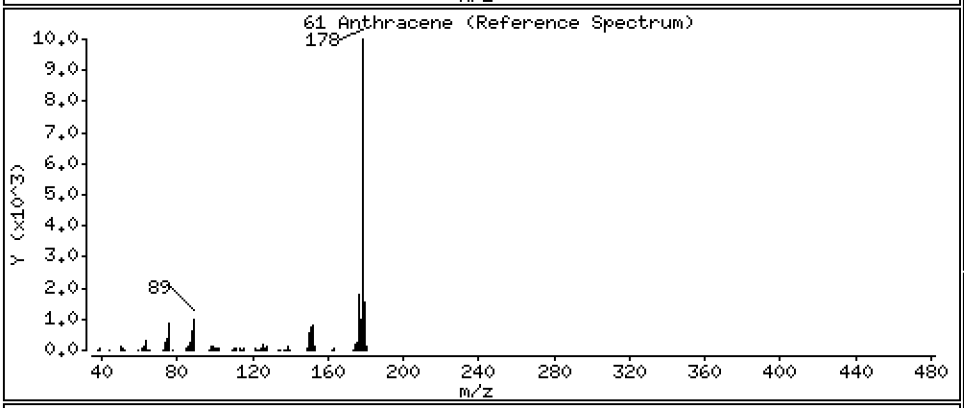
Concentration: 0.2955 ug/mL

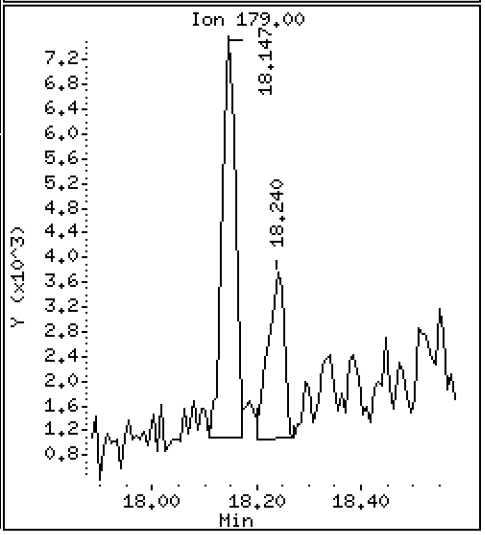


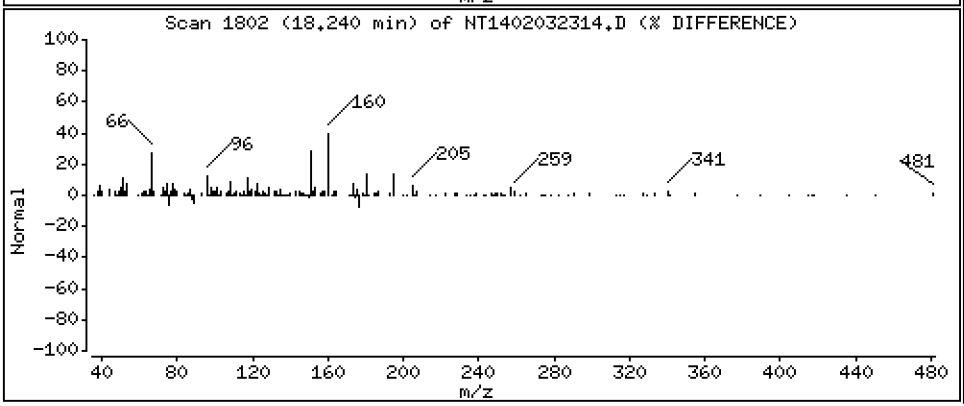












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032314.D

Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

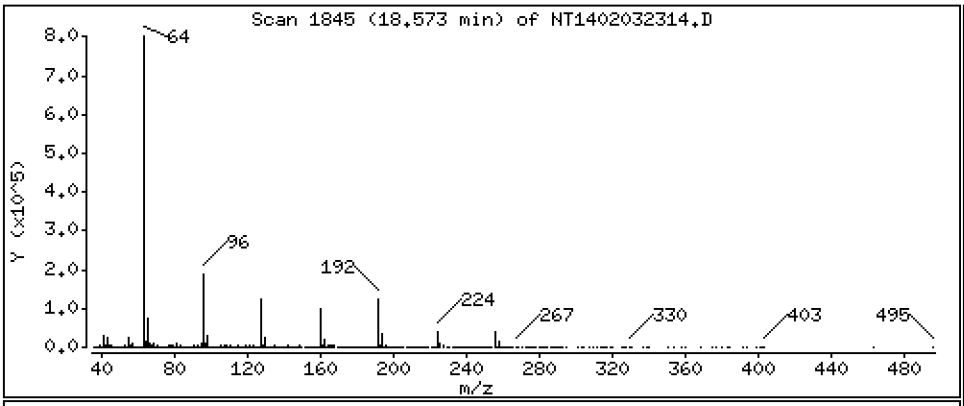
Operator: DSD

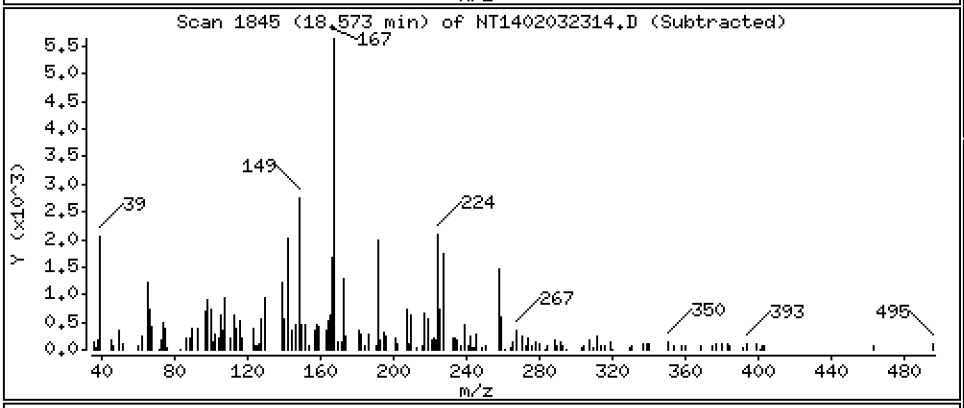
Column phase: ZB-5msi

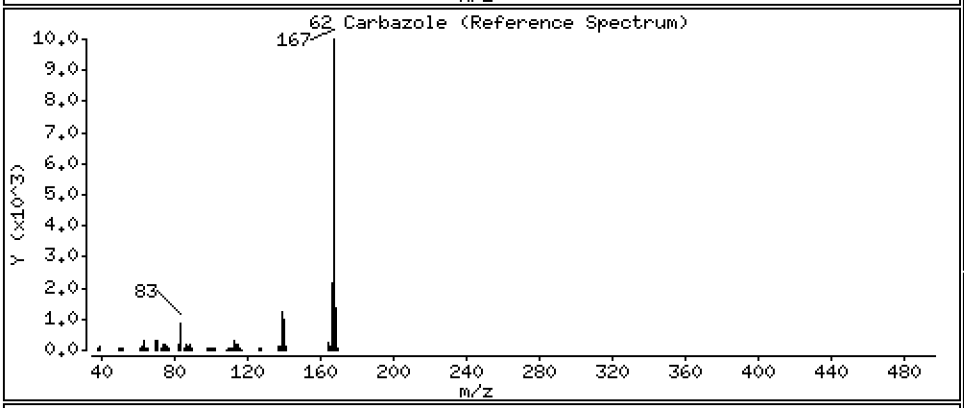
Column diameter: 0.25

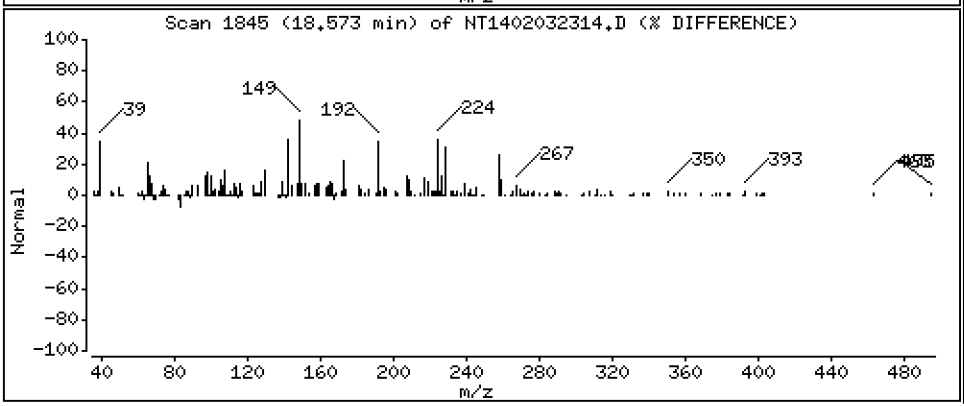
62 Carbazole

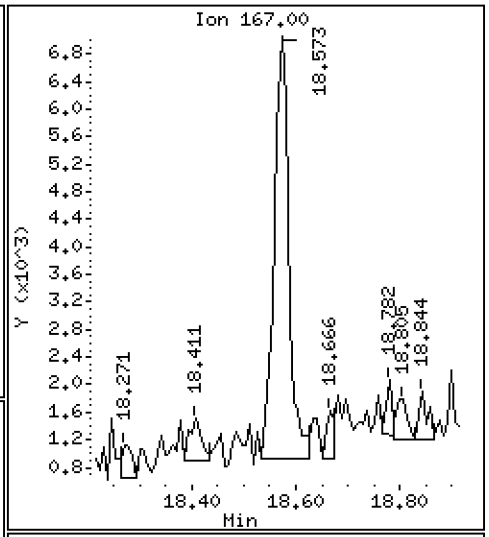
Concentration: 0.1547 ug/mL

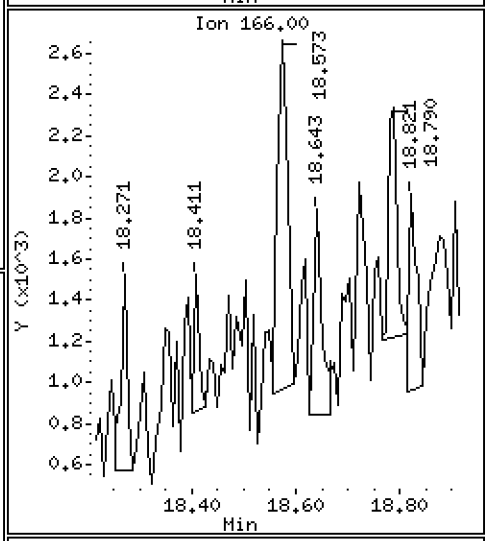


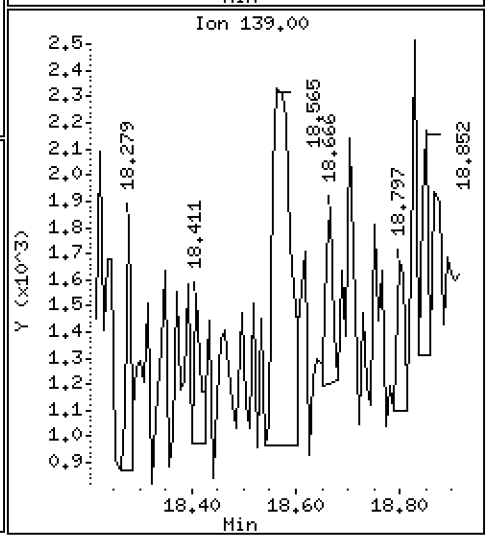












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

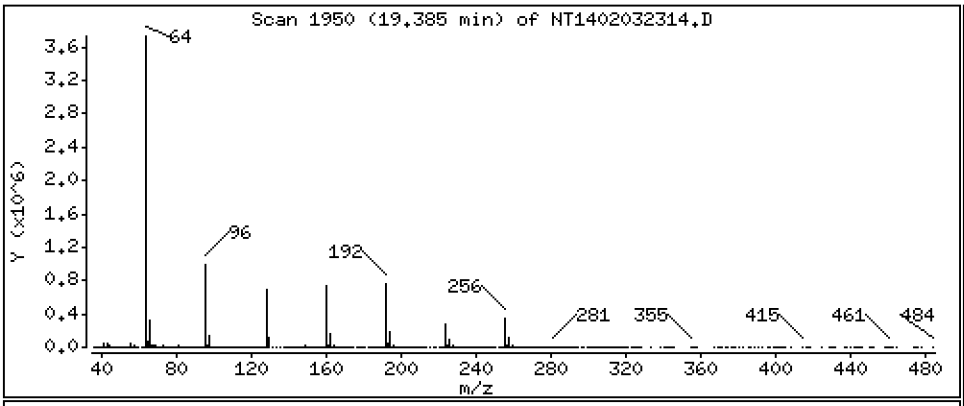
Operator: DSD

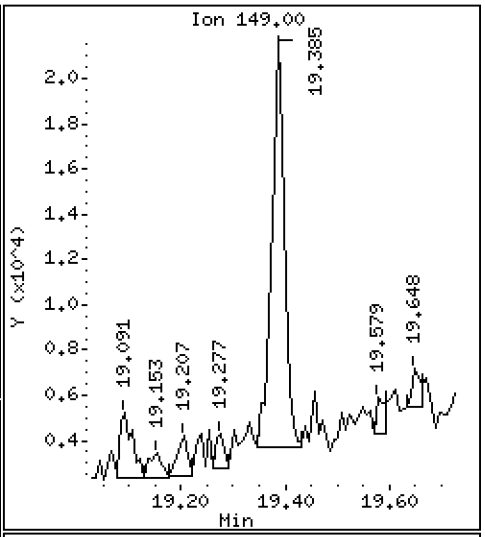
Column phase: ZB-5msi

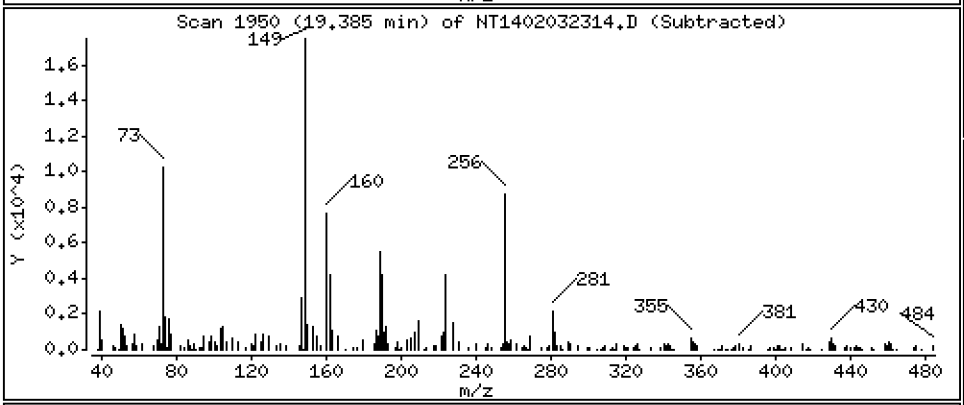
Column diameter: 0.25

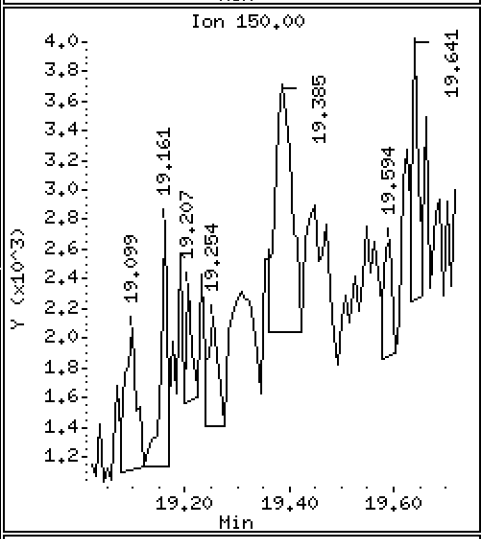
63 Di-n-butylphthalate

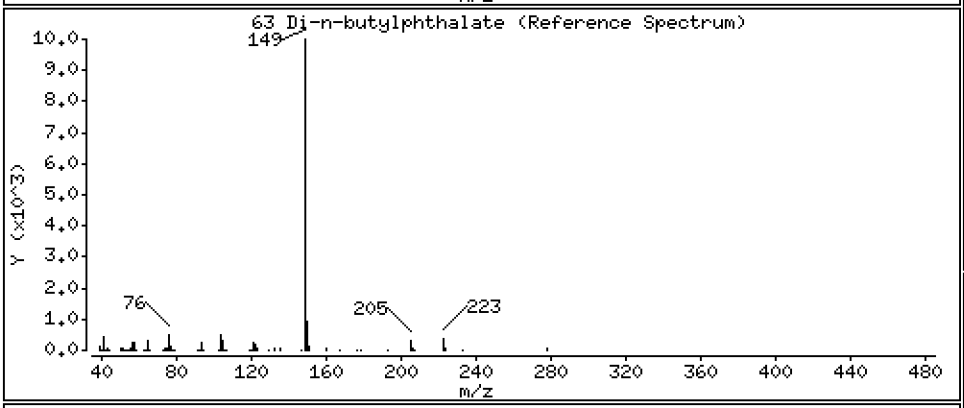
Concentration: 0.2625 ug/mL

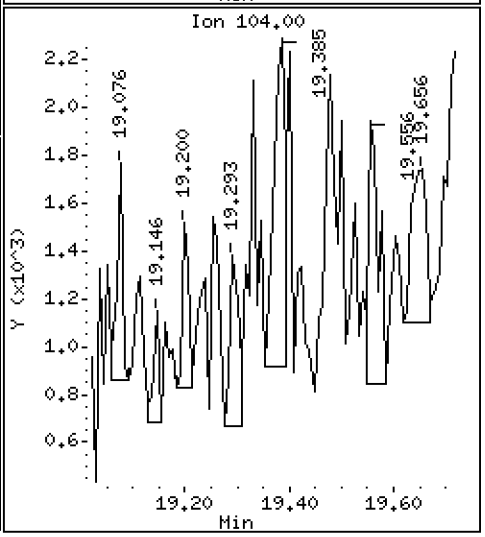


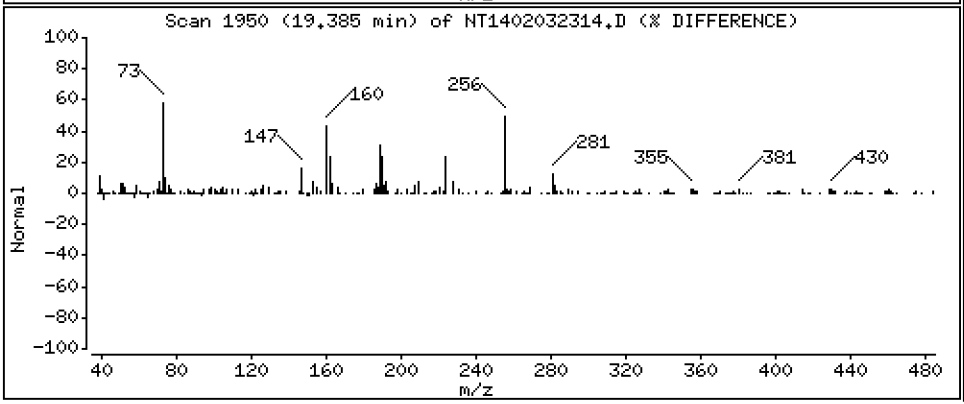












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

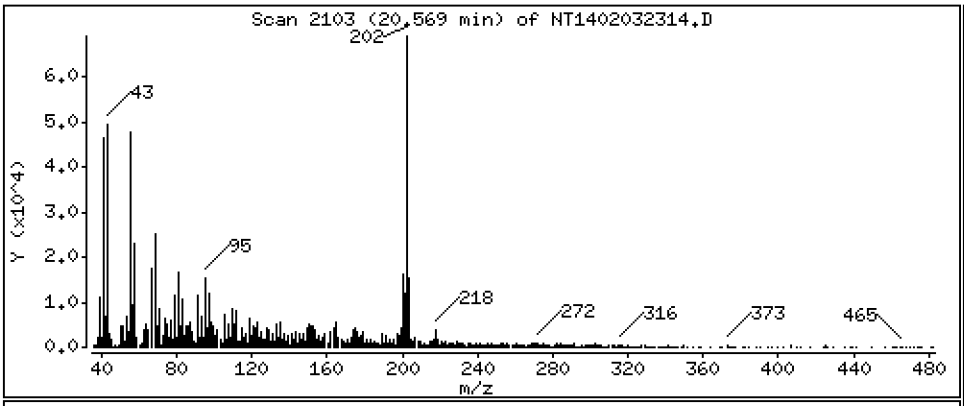
Operator: DSD

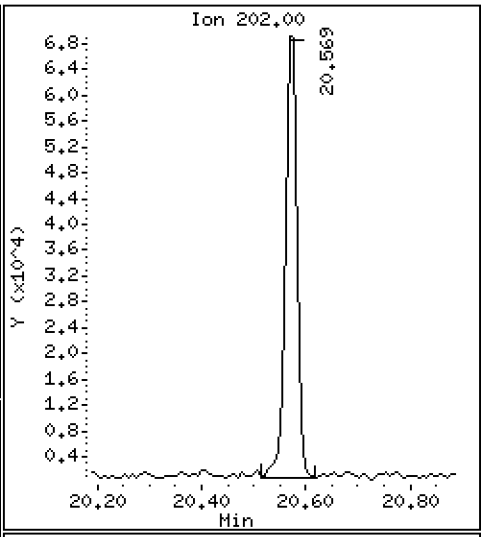
Column phase: ZB-5msi

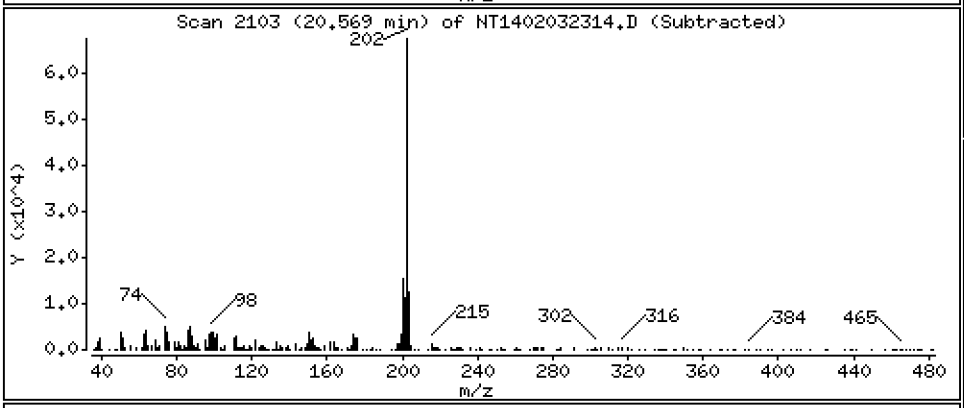
Column diameter: 0.25

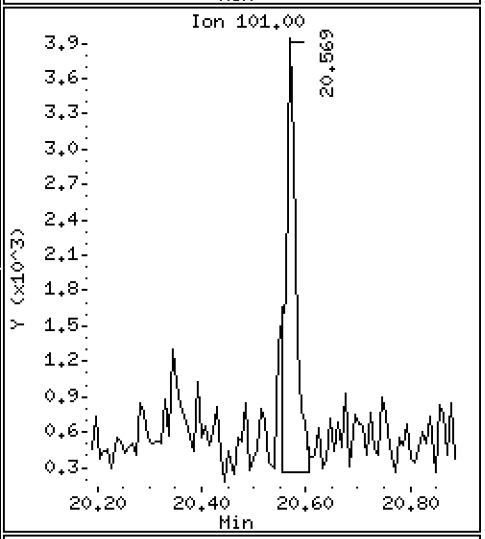
64 Fluoranthene

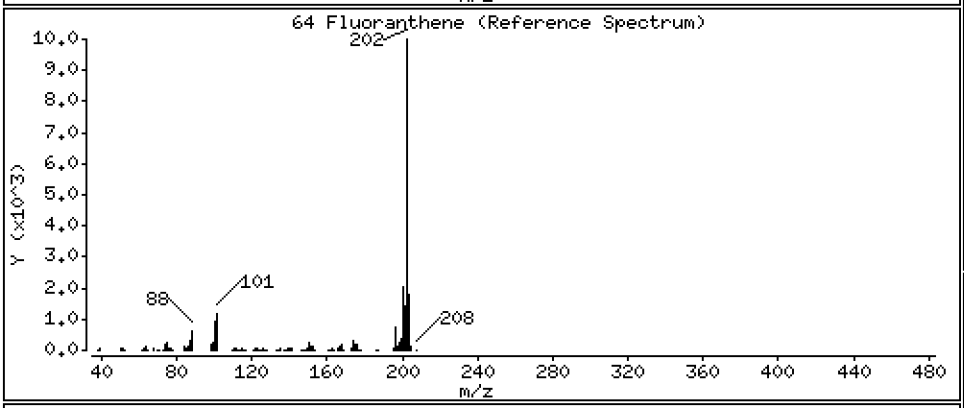
Concentration: 2.334 ug/mL

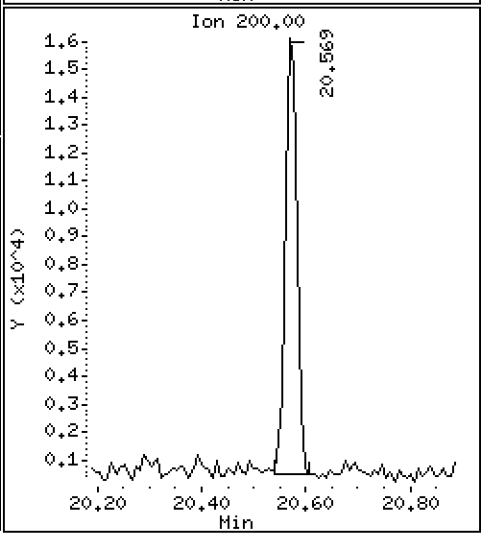


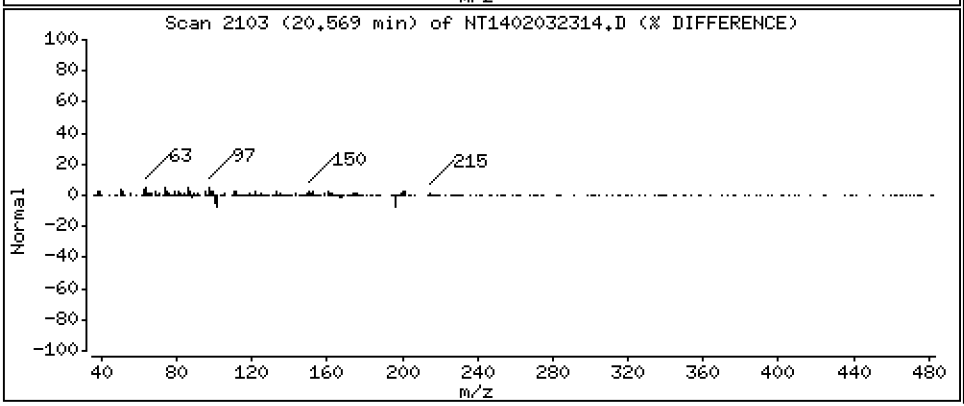












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

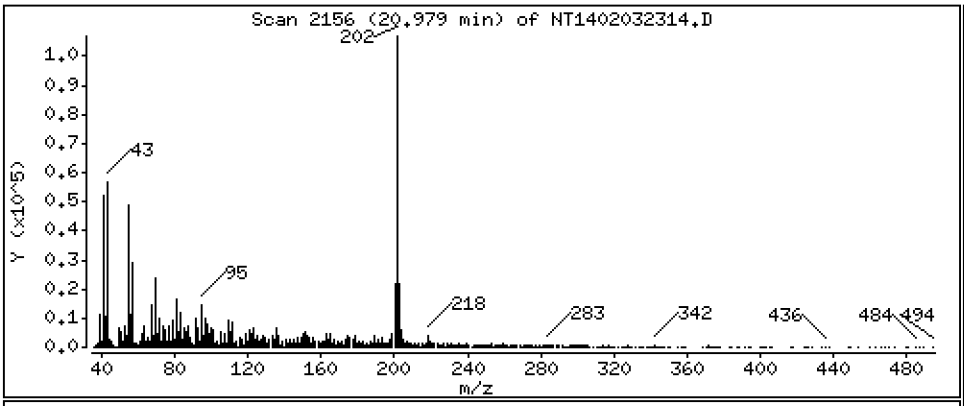
Operator: DSD

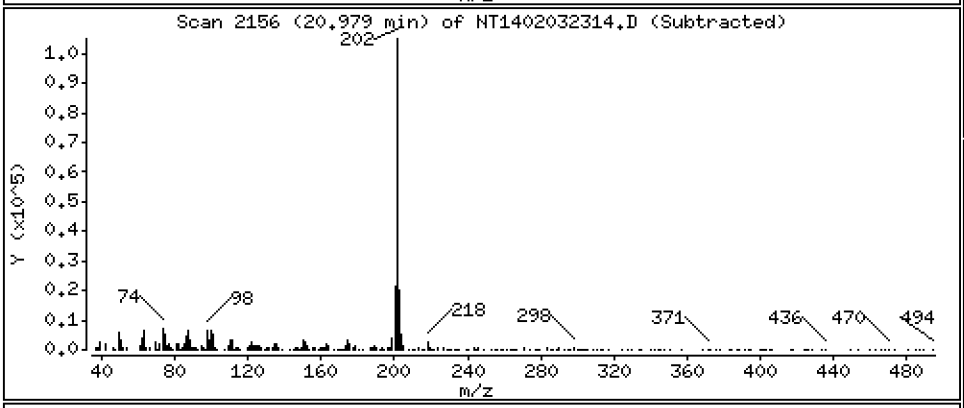
Column phase: ZB-5msi

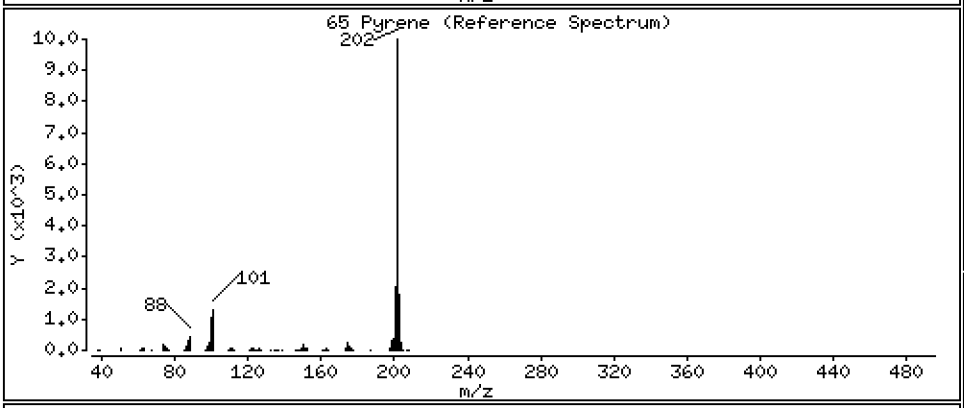
Column diameter: 0.25

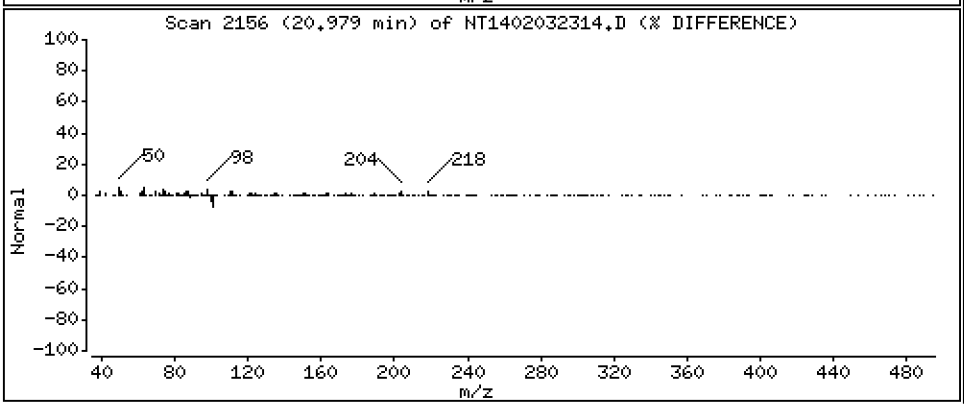
65 Pyrene

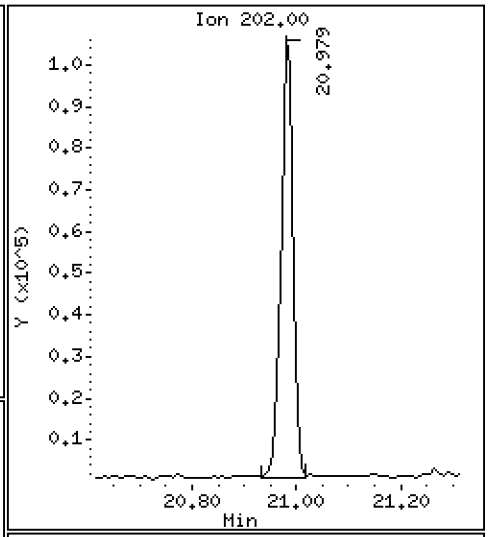
Concentration: 3.478 ug/mL

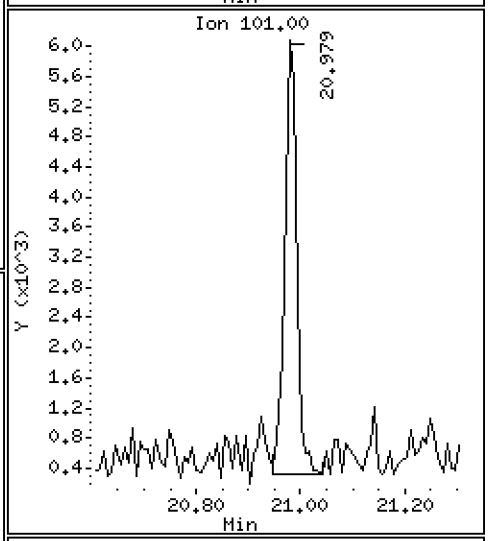


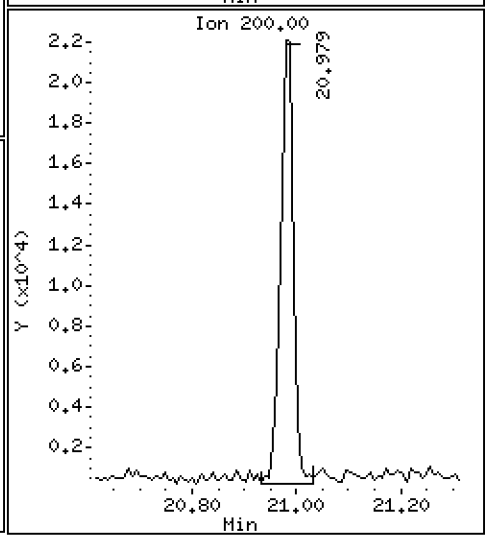












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

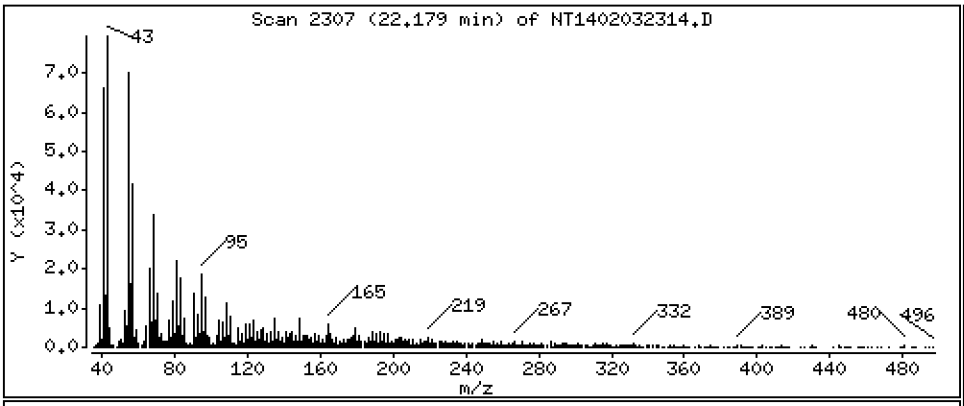
Operator: DSD

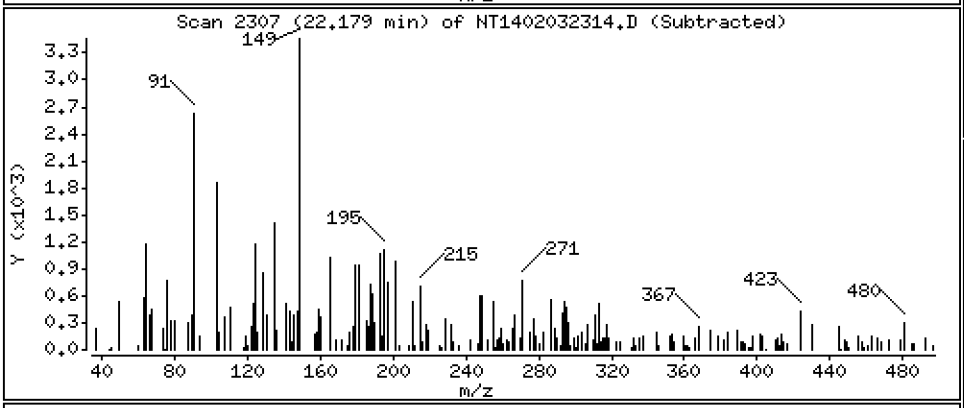
Column phase: ZB-5msi

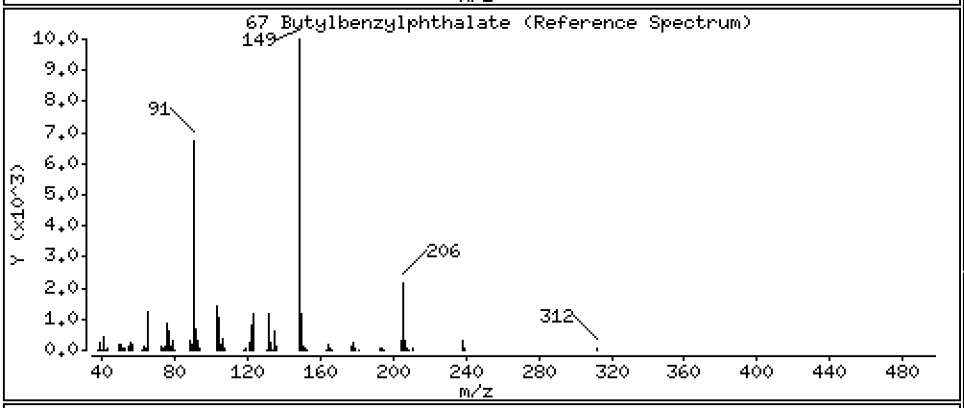
Column diameter: 0.25

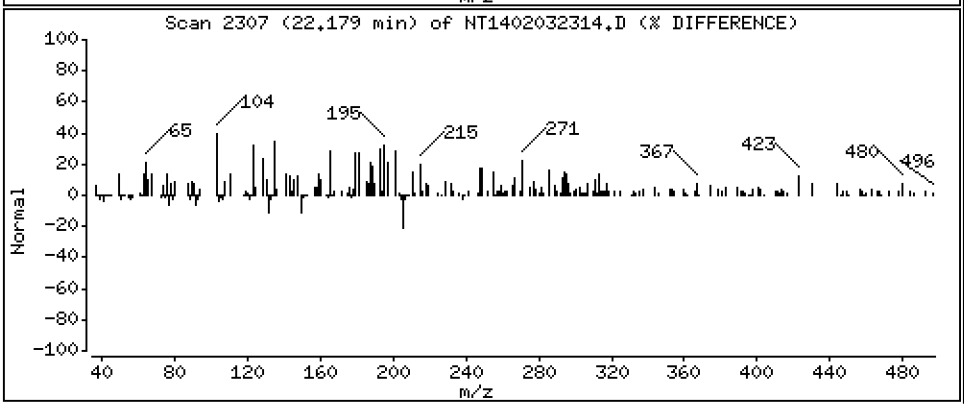
67 Butylbenzylphthalate

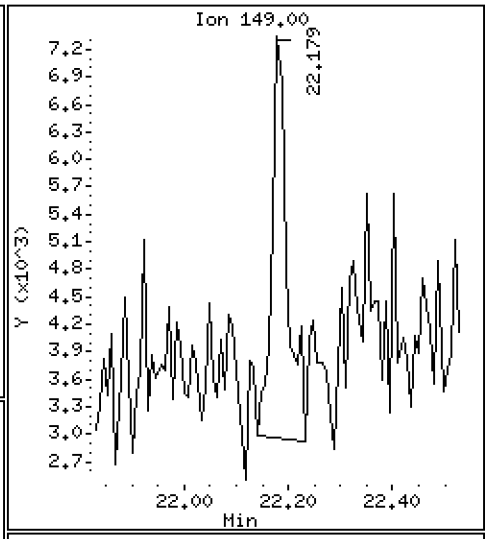
Concentration: 0.3355 ug/mL

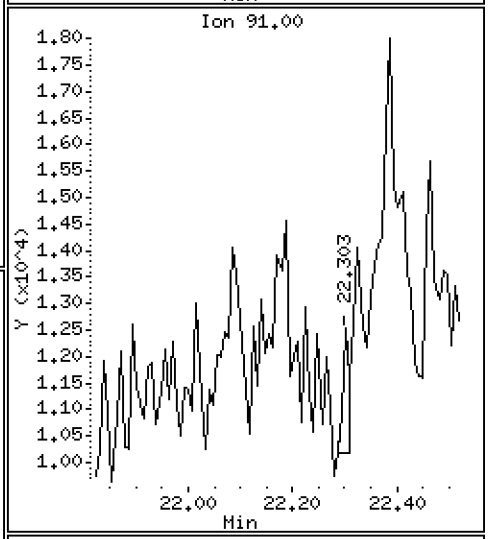


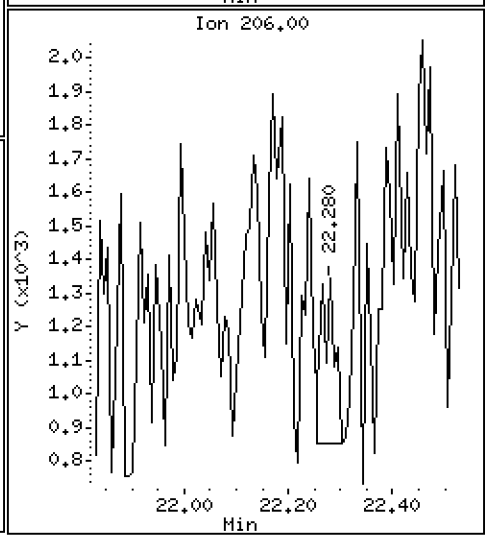












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

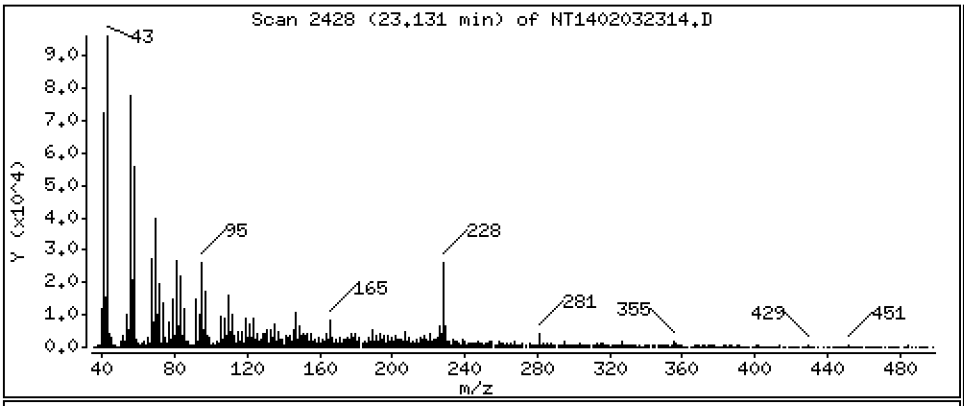
Operator: DSD

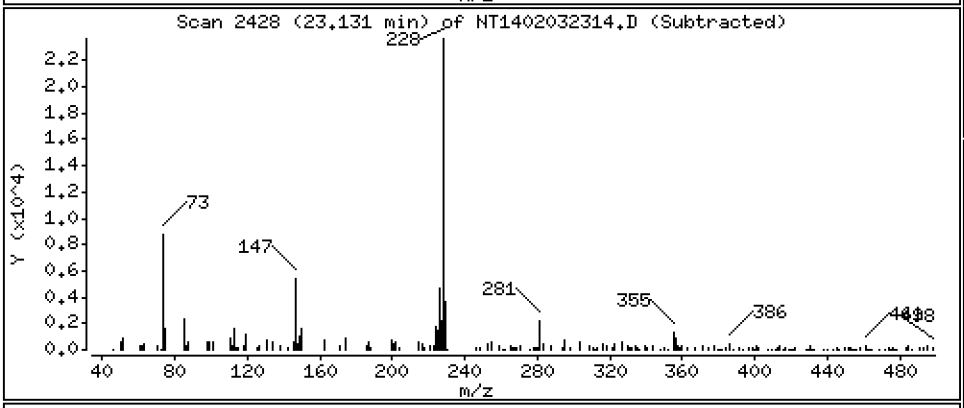
Column phase: ZB-5msi

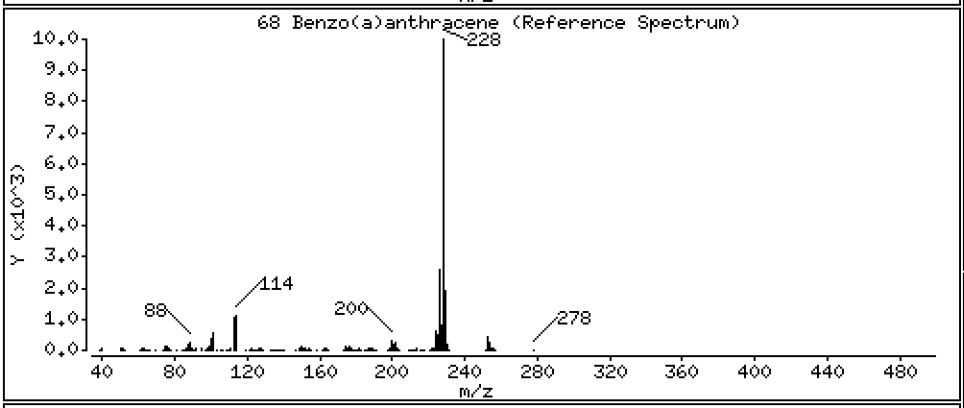
Column diameter: 0.25

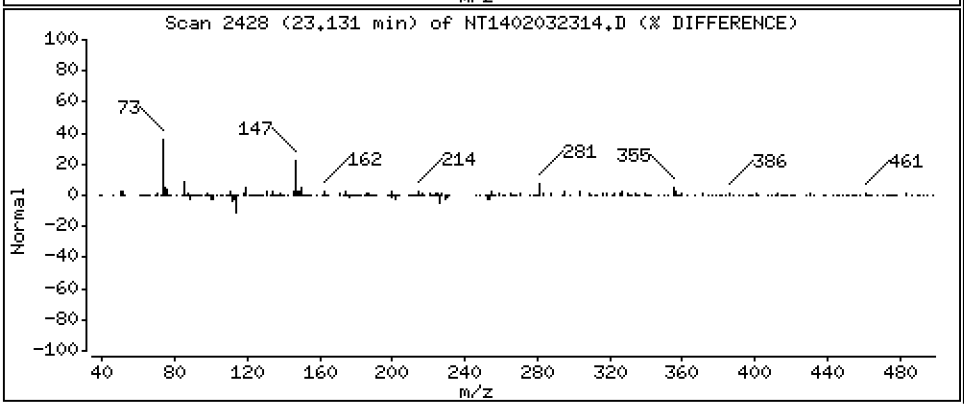
68 Benzo(a)anthracene

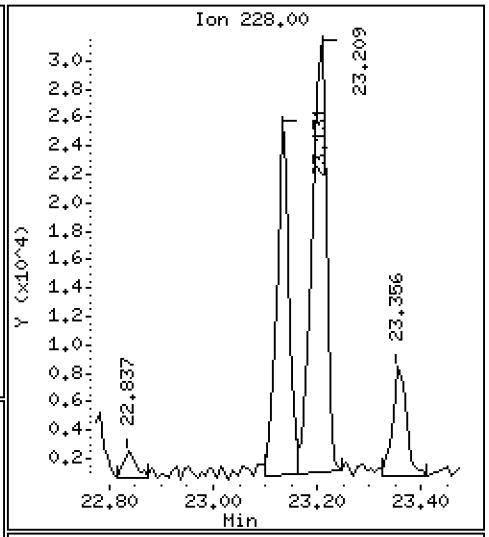
Concentration: 0.8969 ug/mL

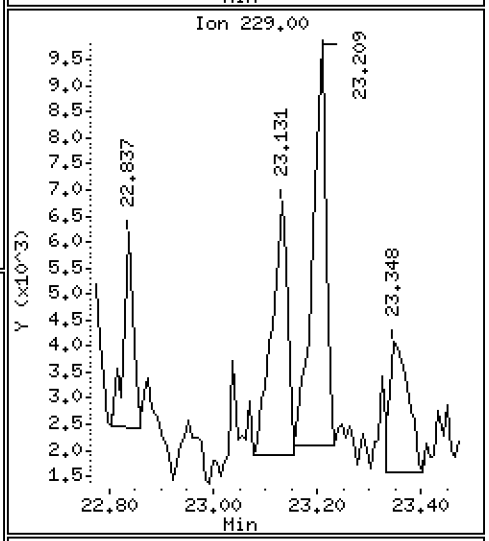


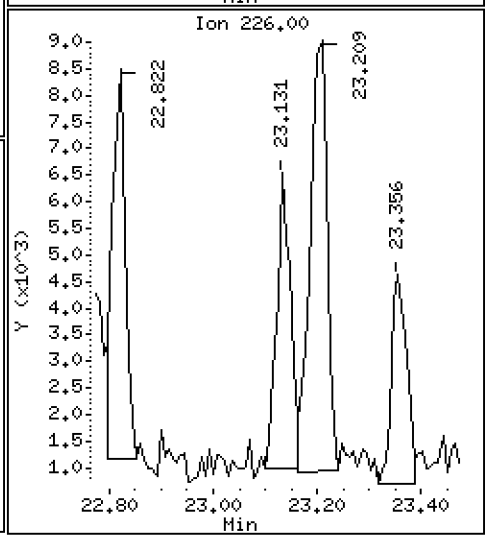












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

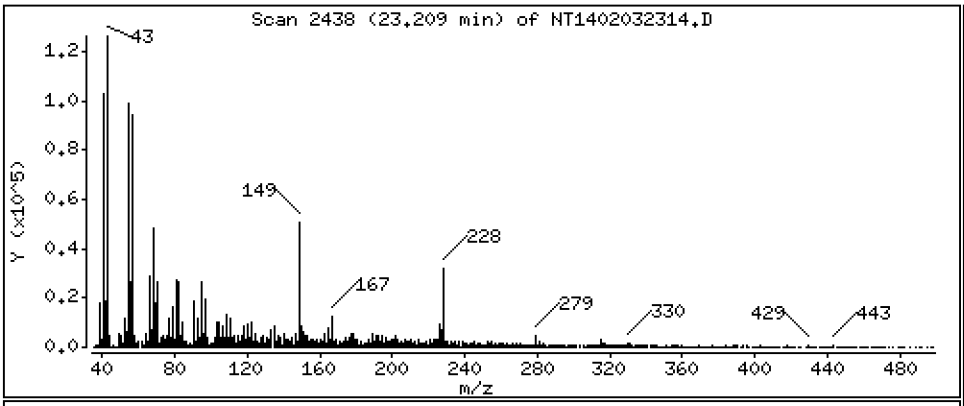
Operator: DSD

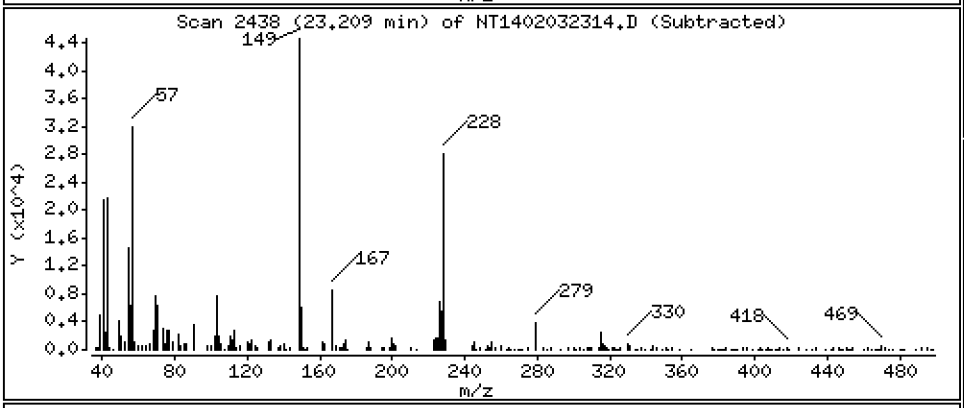
Column phase: ZB-5msi

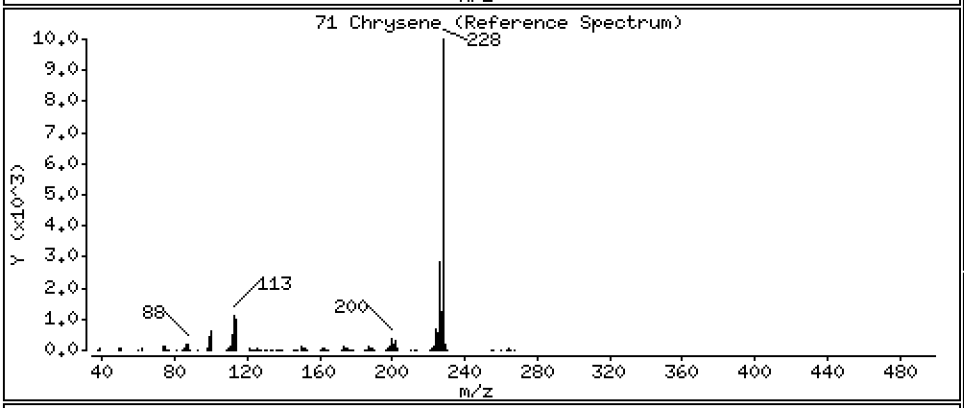
Column diameter: 0.25

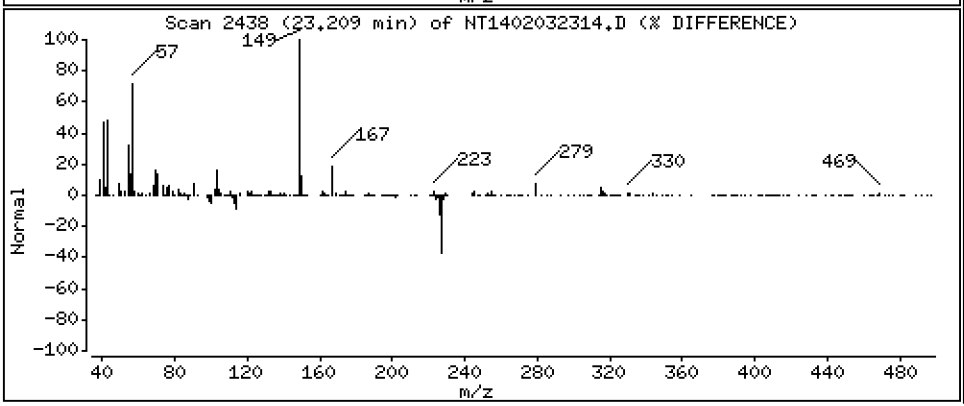
71 Chrysene

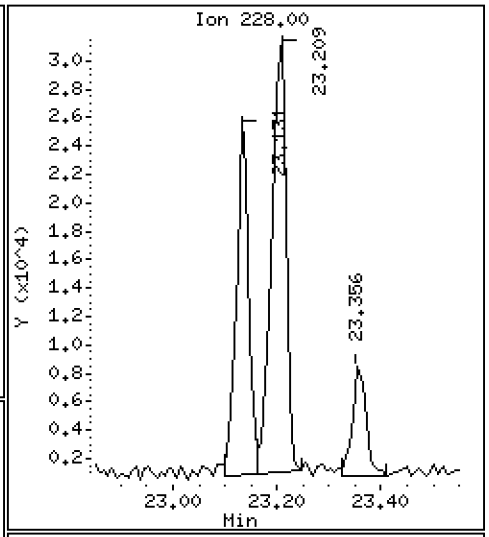
Concentration: 1.315 ug/mL

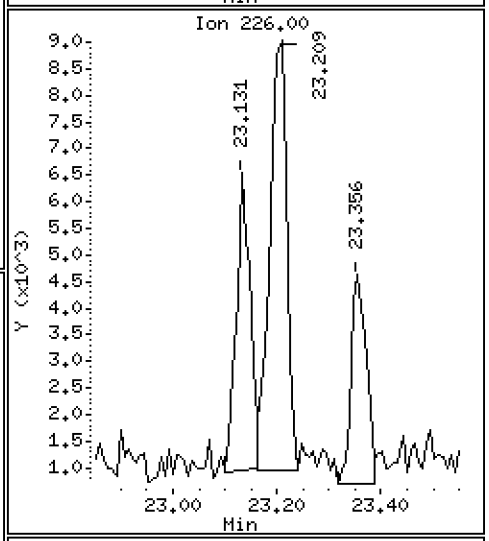


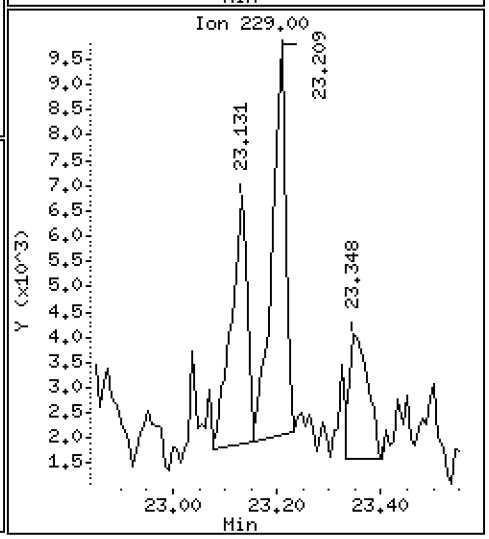












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032314.D

Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

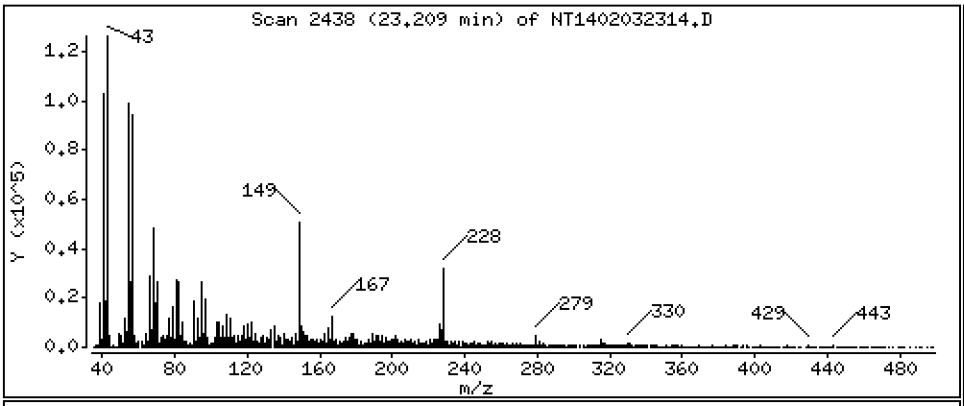
Operator: DSD

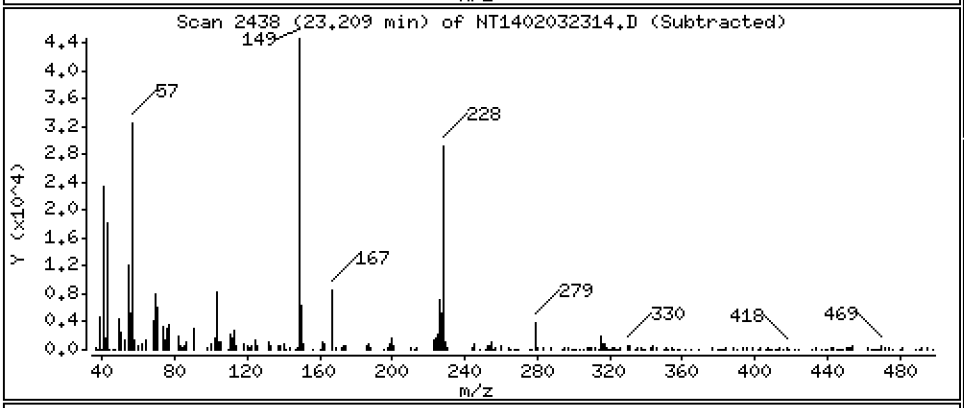
Column phase: ZB-5msi

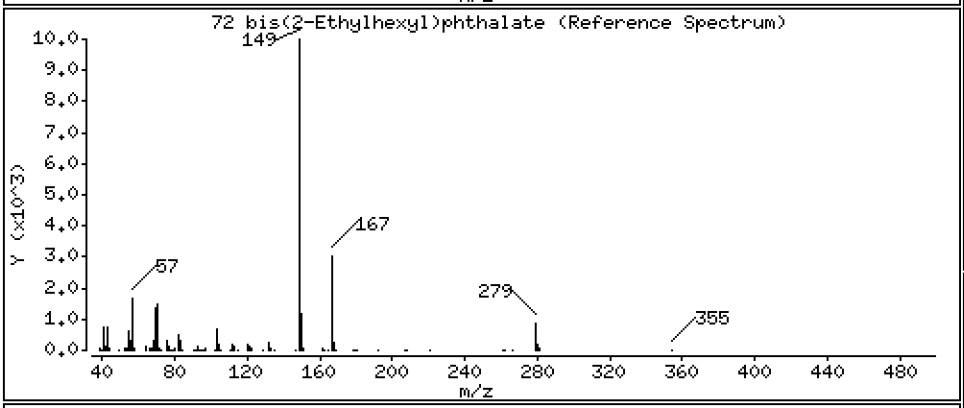
Column diameter: 0.25

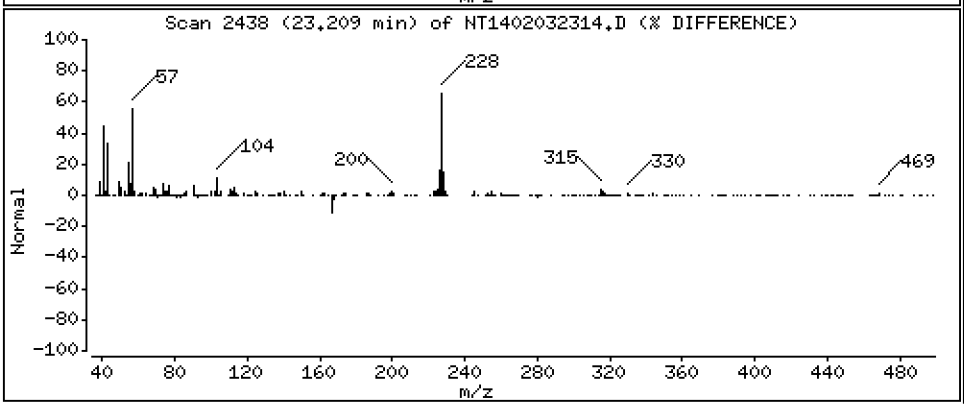
72 bis(2-Ethylhexyl)phthalate

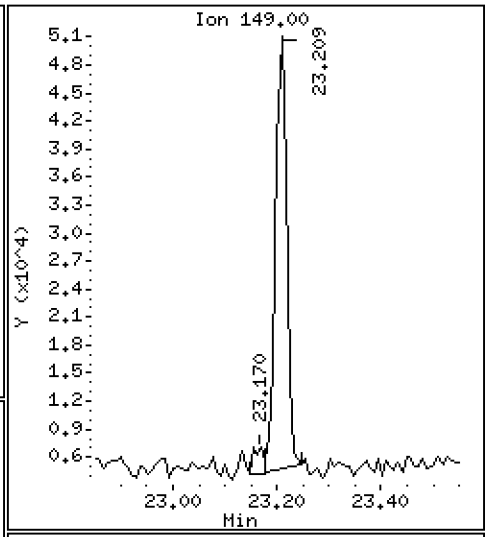
Concentration: 1.923 ug/mL

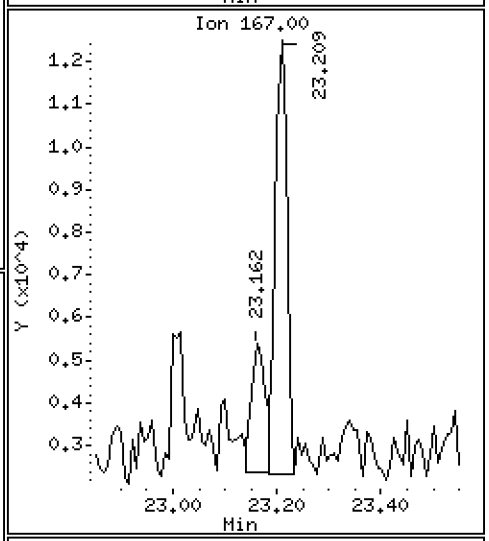


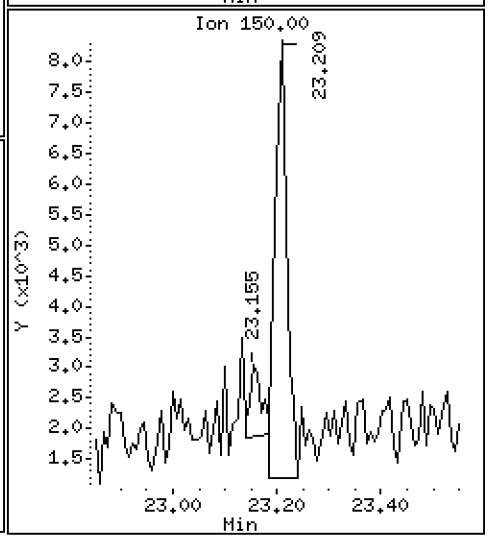












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

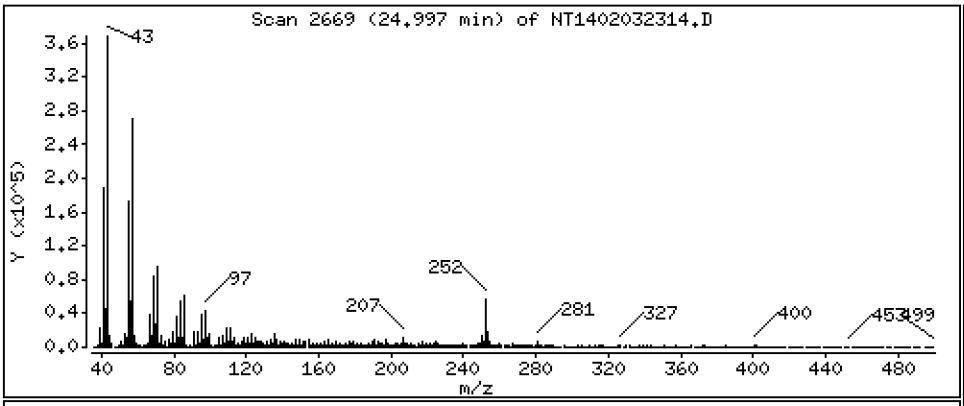
Operator: DSD

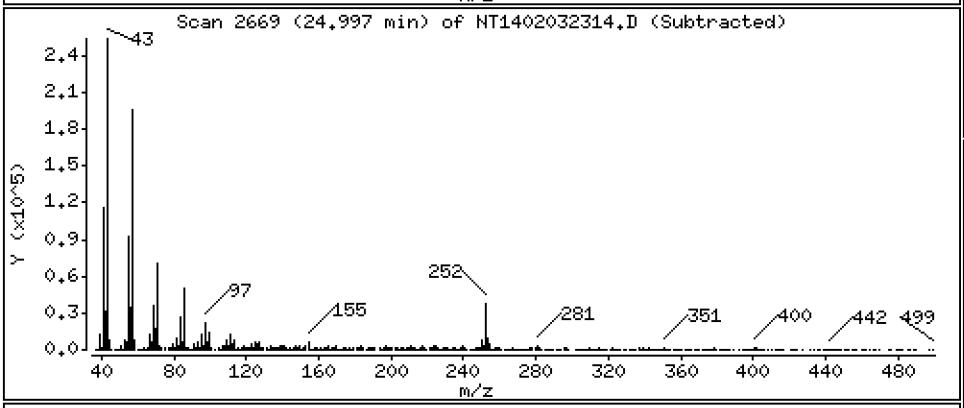
Column phase: ZB-5msi

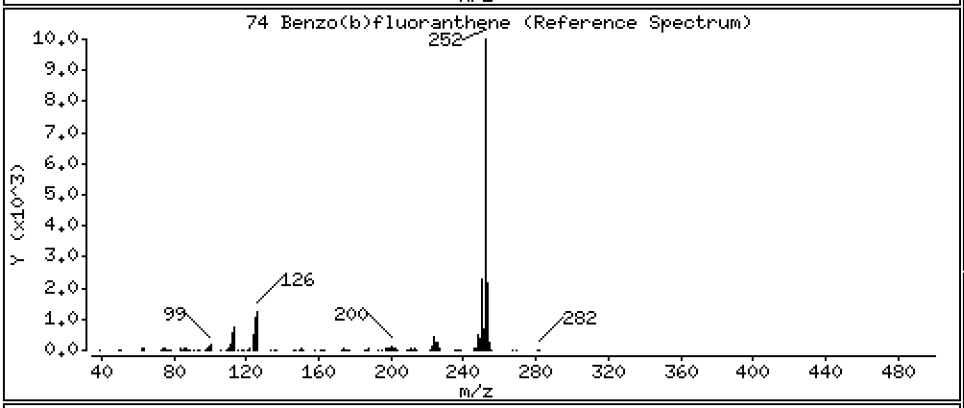
Column diameter: 0.25

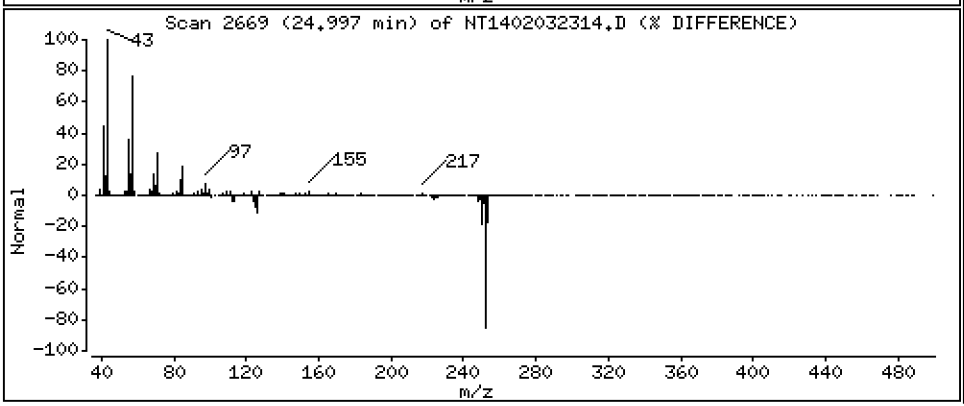
74 Benzo(b)fluoranthene

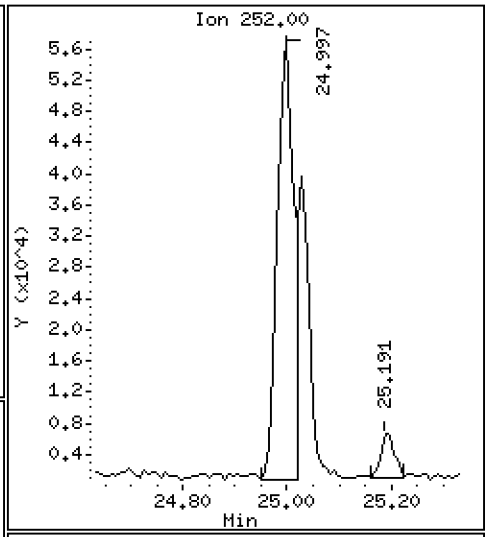
Concentration: 2.605 ug/mL

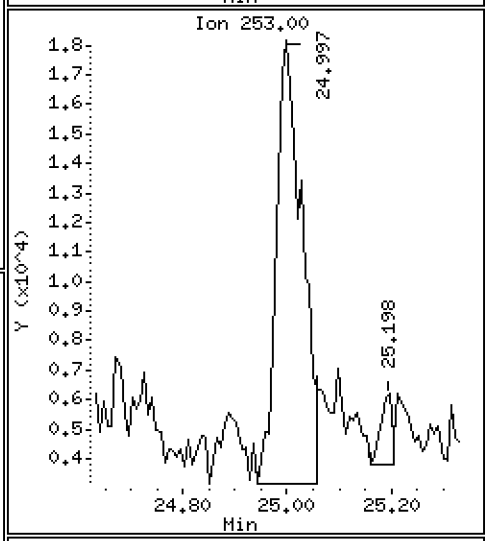


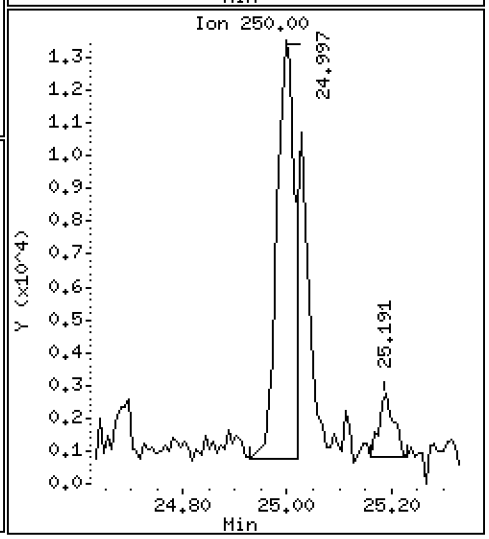












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

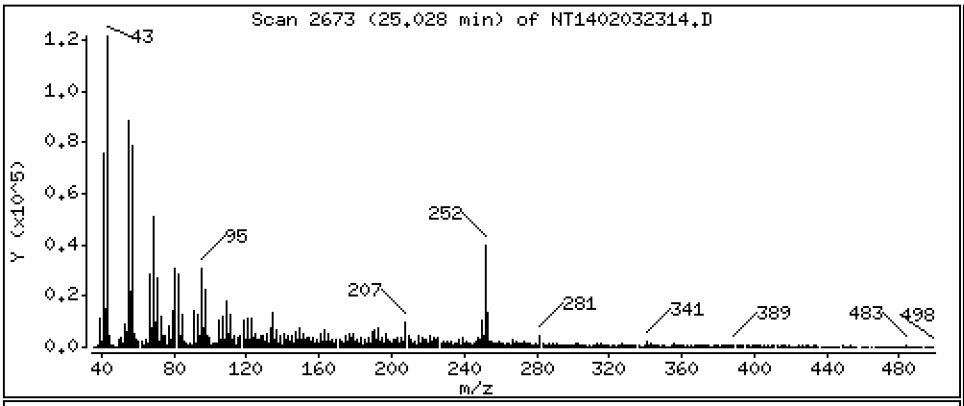
Operator: DSD

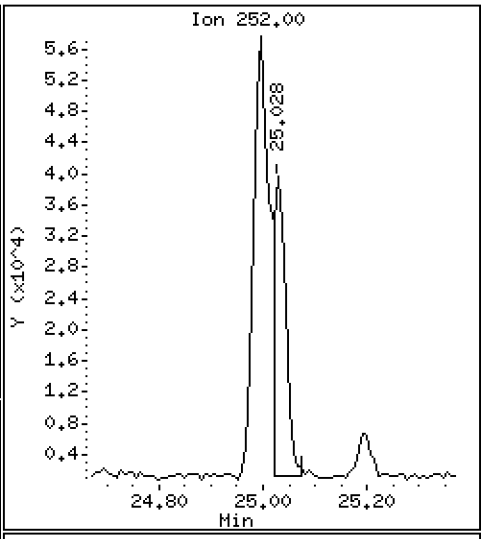
Column phase: ZB-5msi

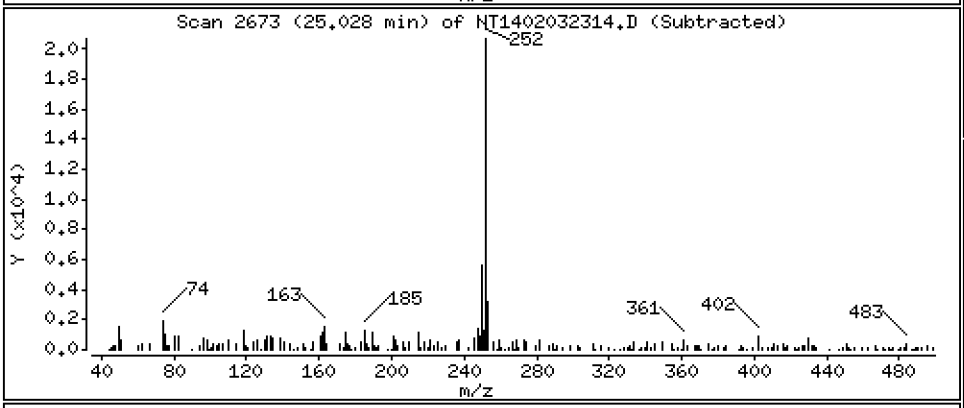
Column diameter: 0.25

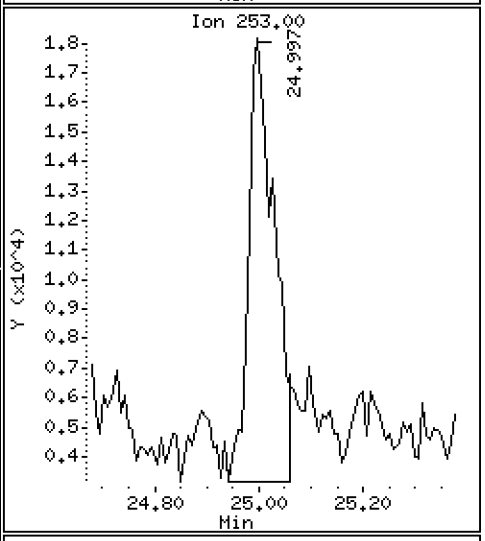
75 Benzo(k)fluoranthene

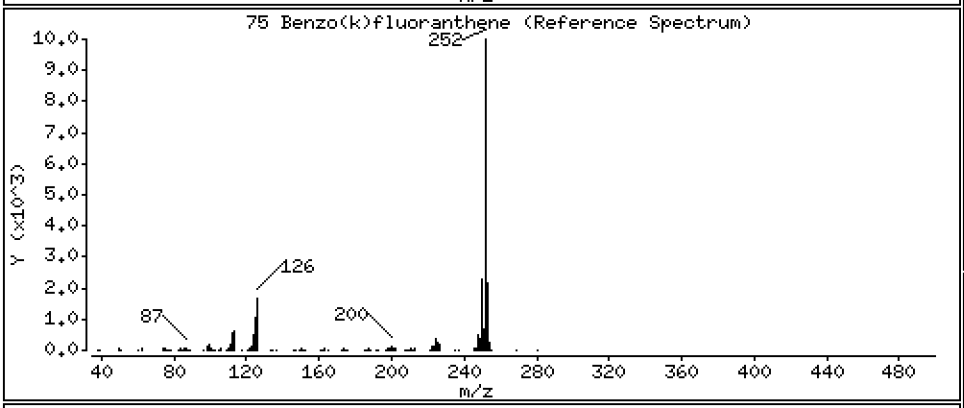
Concentration: 1.306 ug/mL

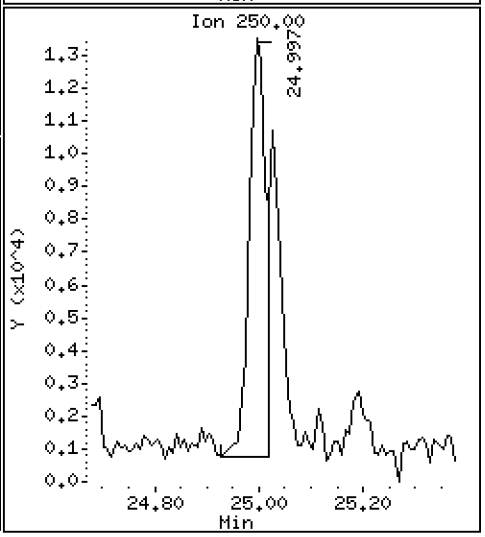


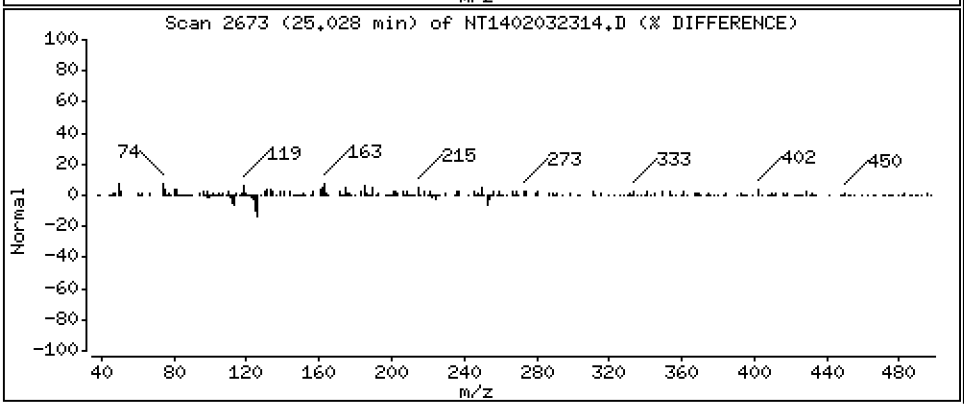












Date : 03-FEB-2023 20:57

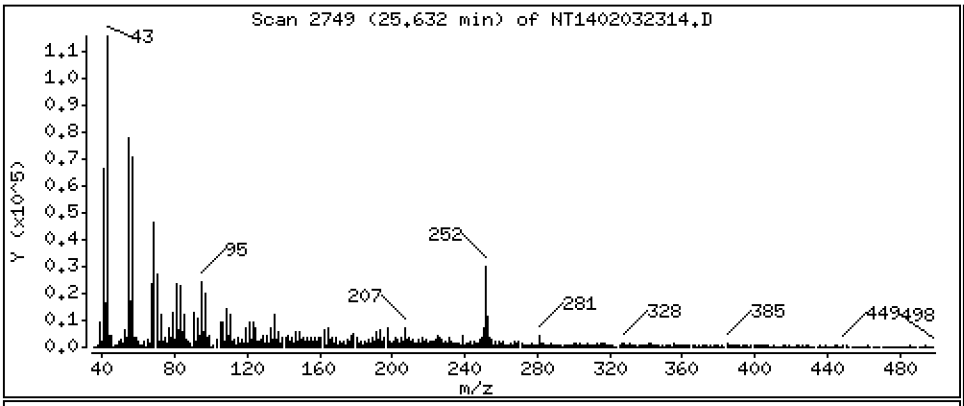
Client ID: Instrument: nt14.i

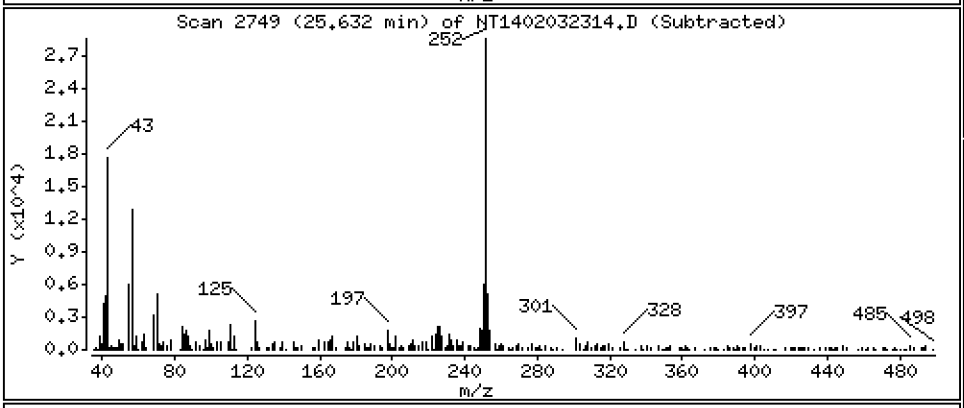
Sample Info: 22L0459-04

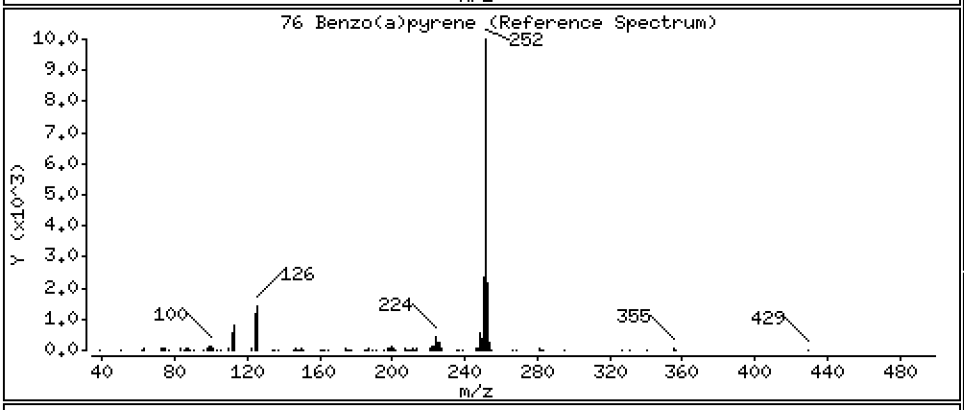
Operator: DSD

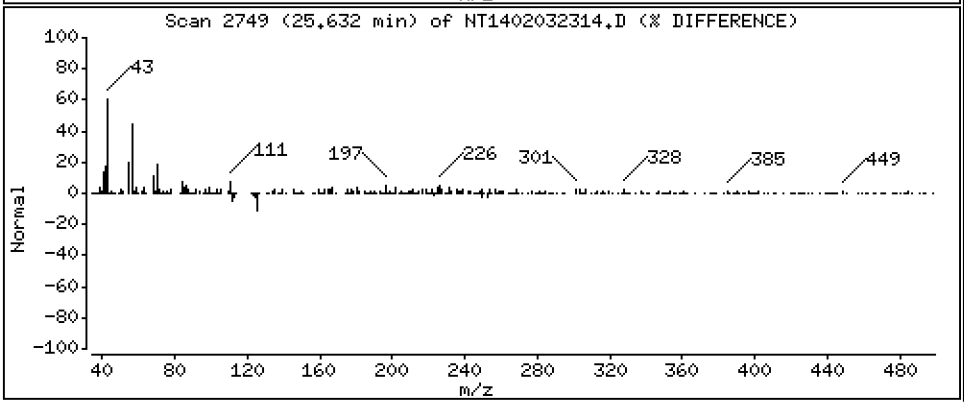
Column phase: ZB-5msi Column diameter: 0.25

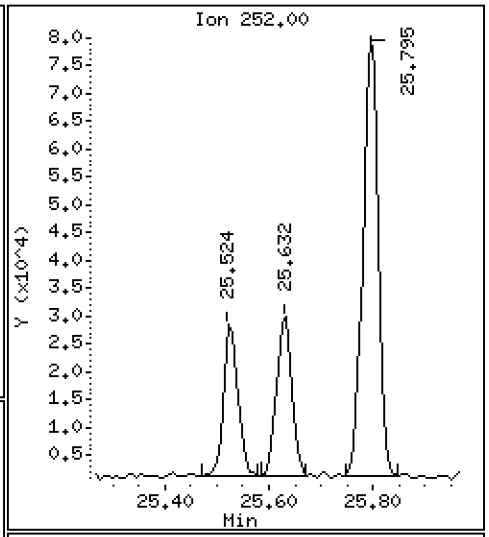
76 Benzo(a)pyrene Concentration: 1.376 ug/mL

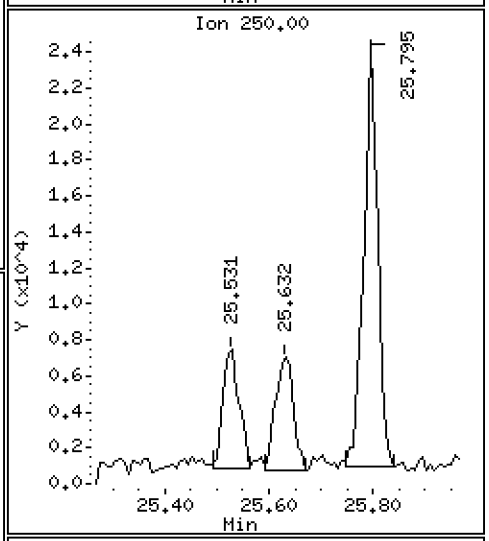


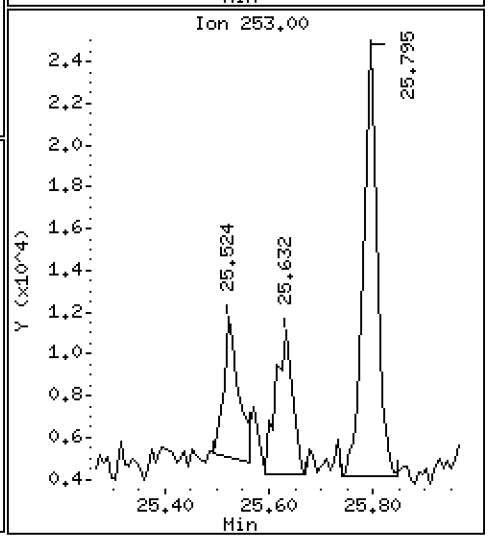












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

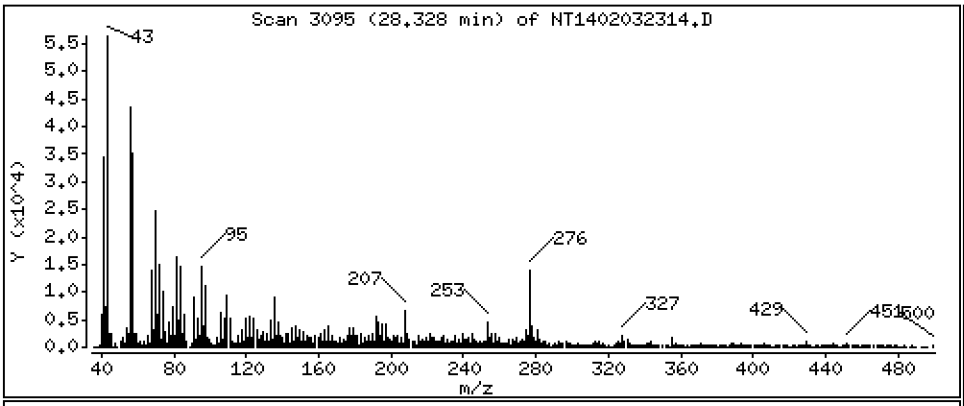
Operator: DSD

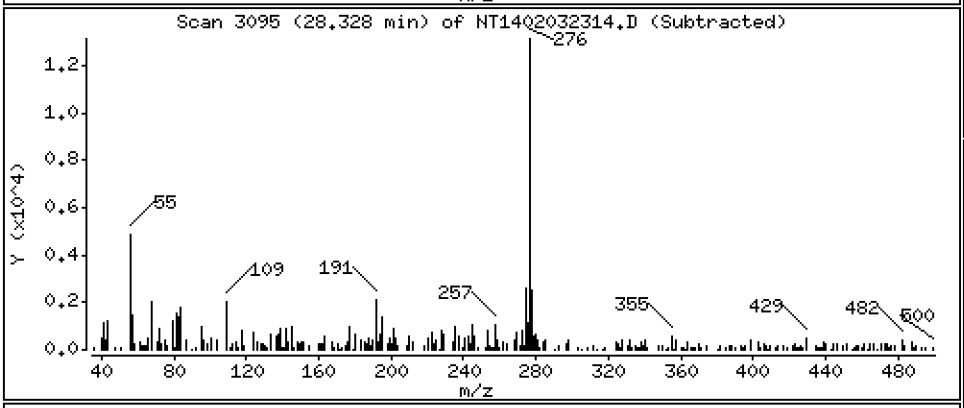
Column phase: ZB-5msi

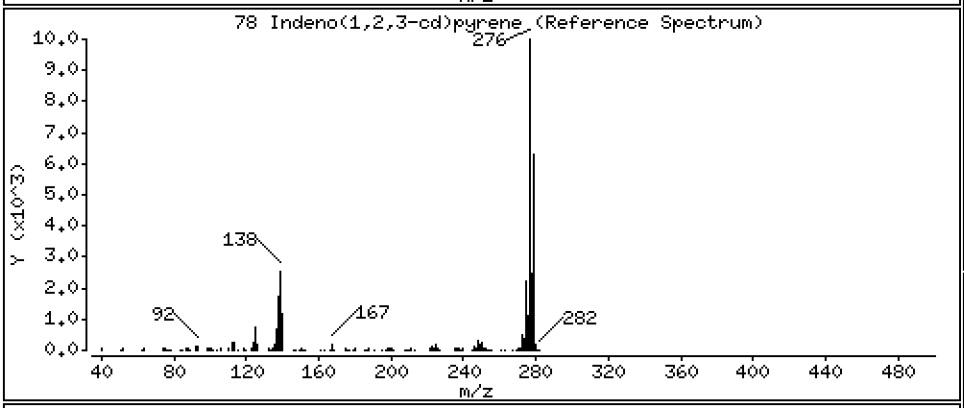
Column diameter: 0.25

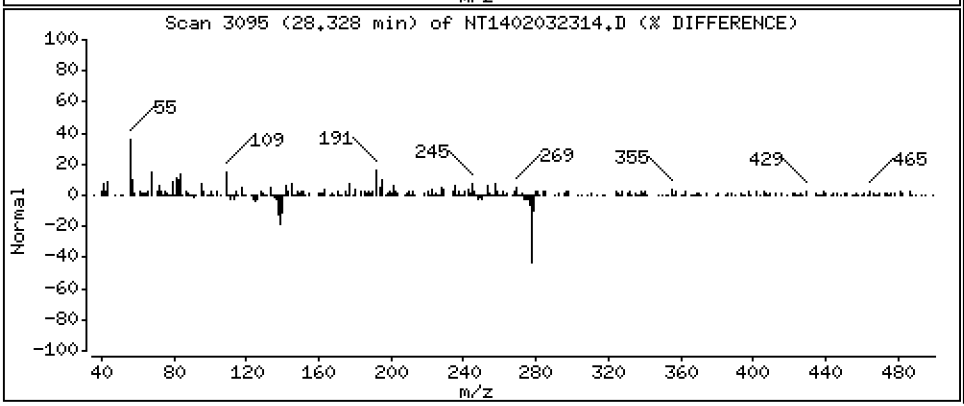
78 Indeno(1,2,3-cd)pyrene

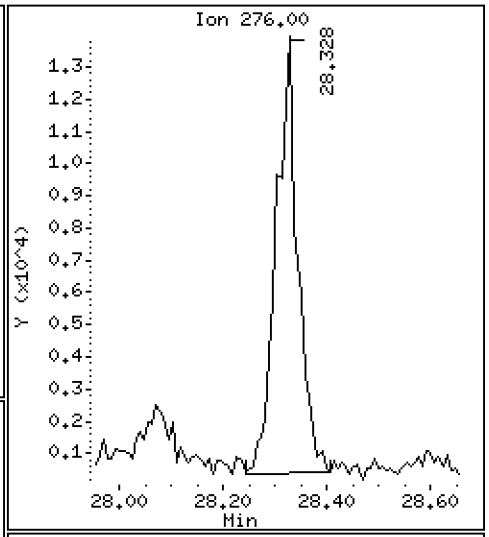
Concentration: 0.7554 ug/mL

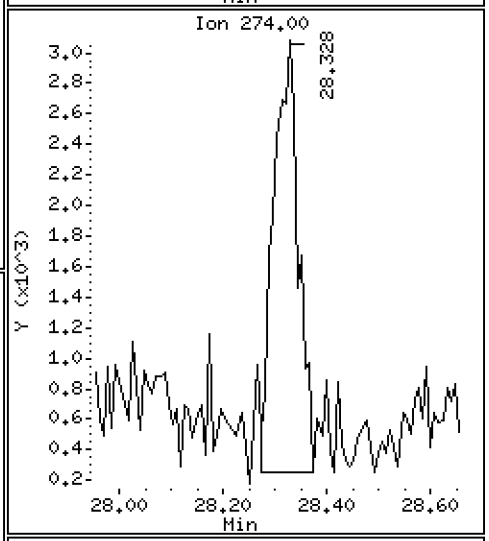


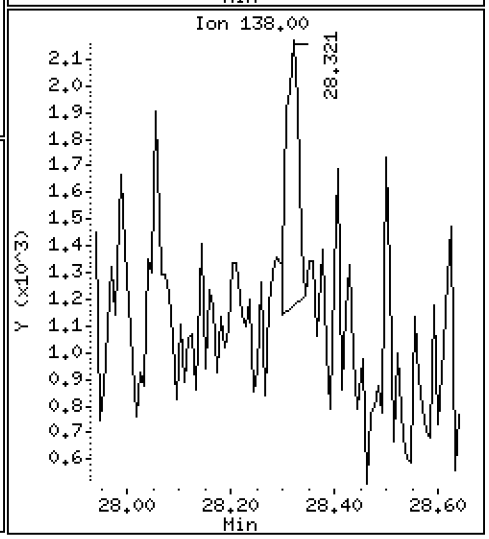












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

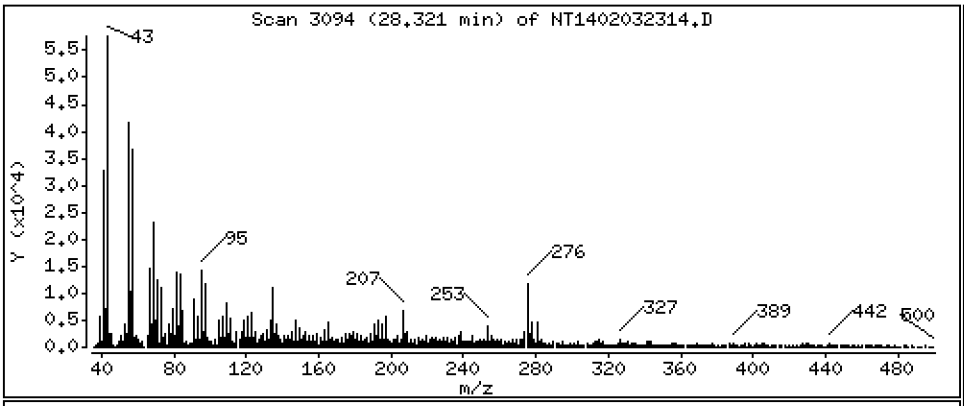
Operator: DSD

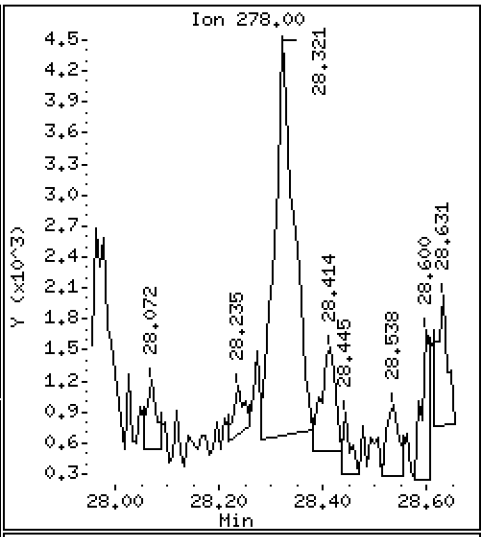
Column phase: ZB-5msi

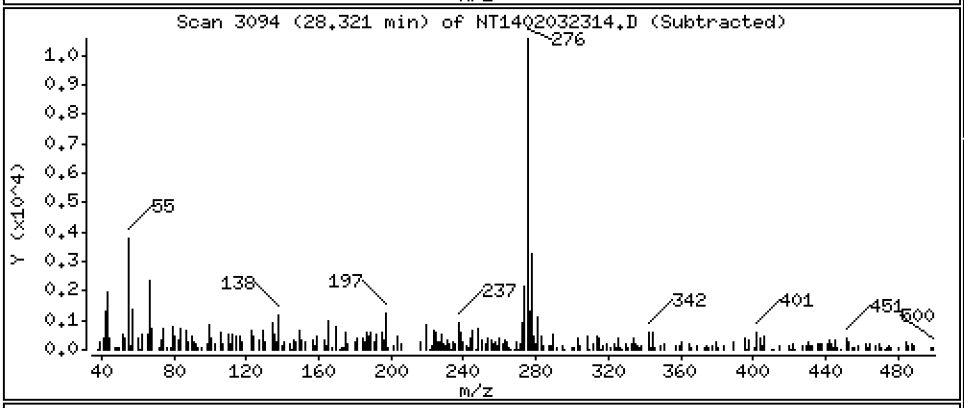
Column diameter: 0.25

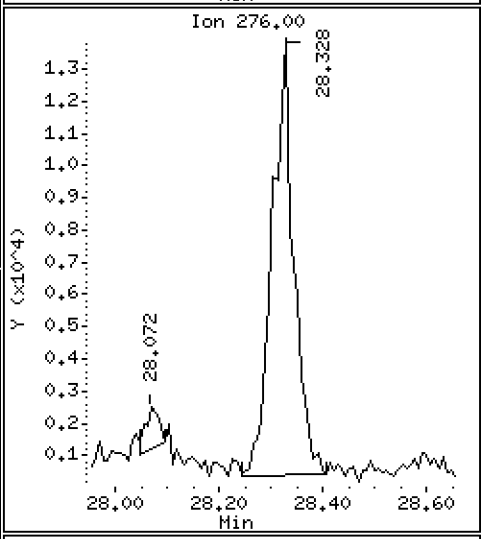
79 Dibenzo(a,h)anthracene

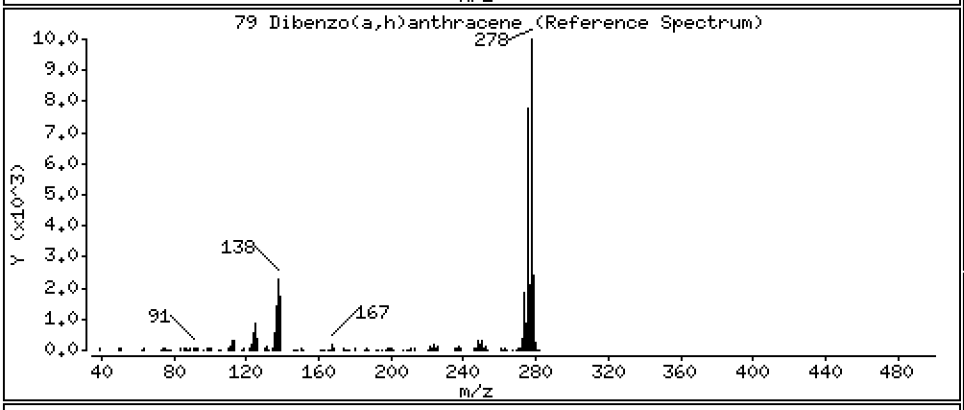
Concentration: 0.2262 ug/mL

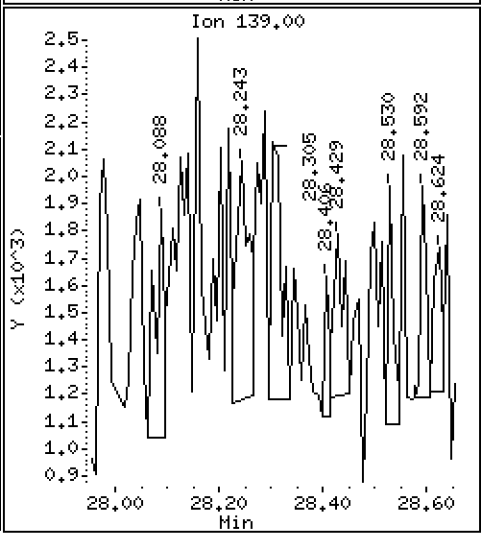


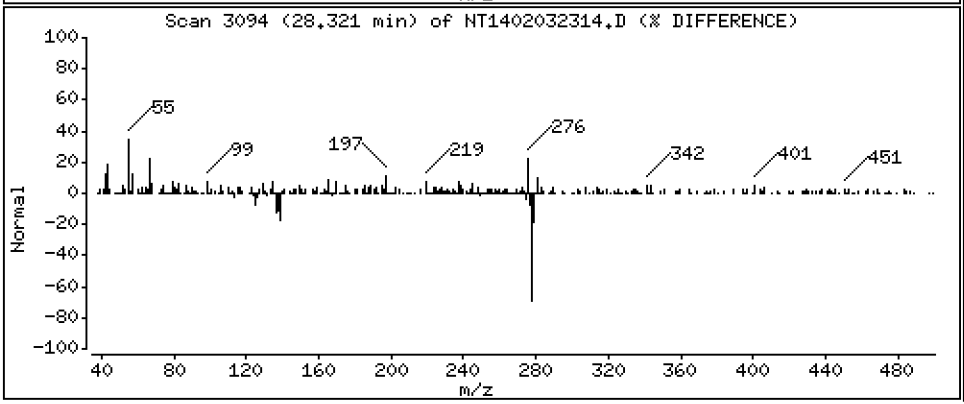












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Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

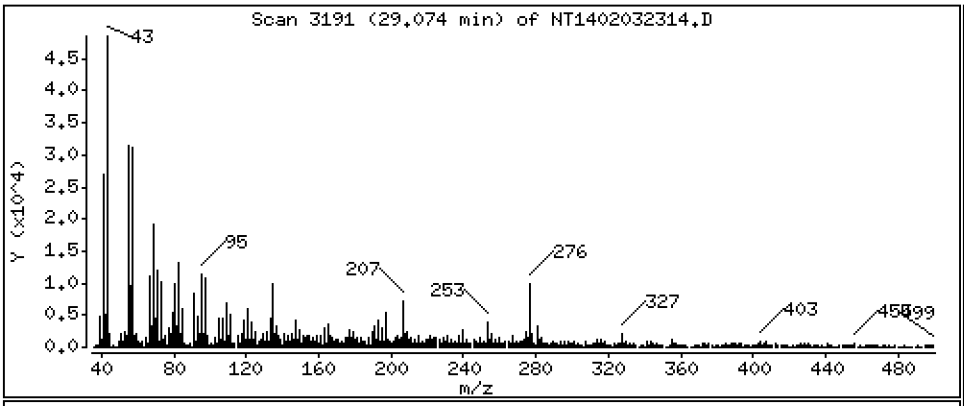
Operator: DSD

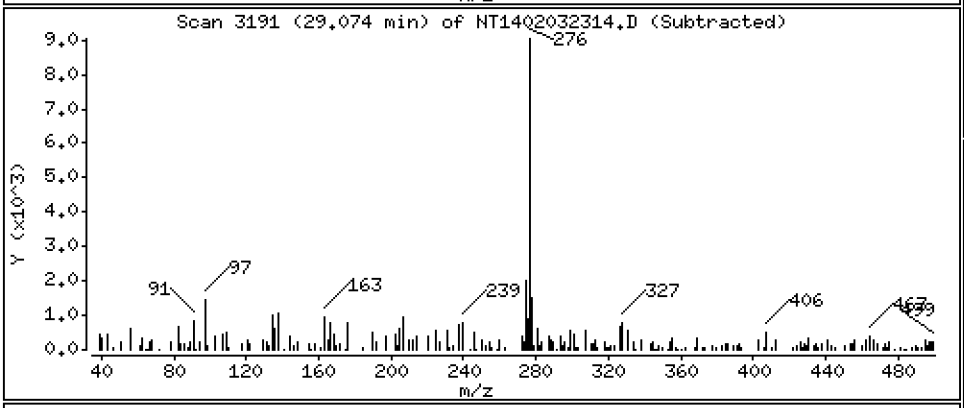
Column phase: ZB-5msi

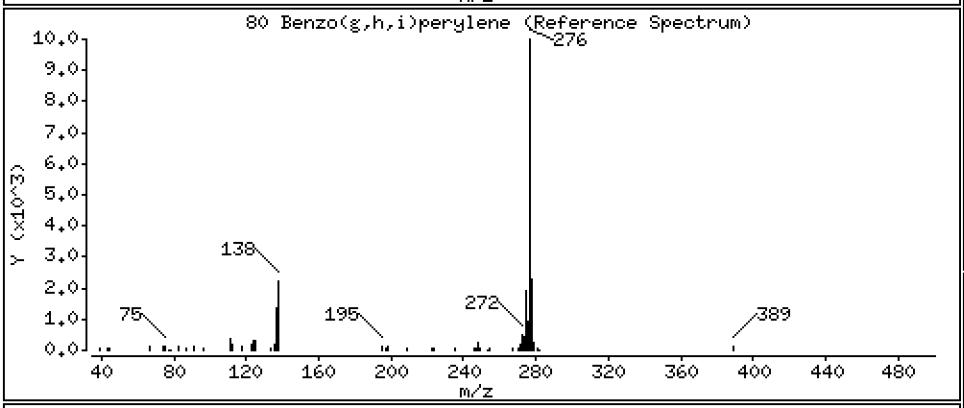
Column diameter: 0.25

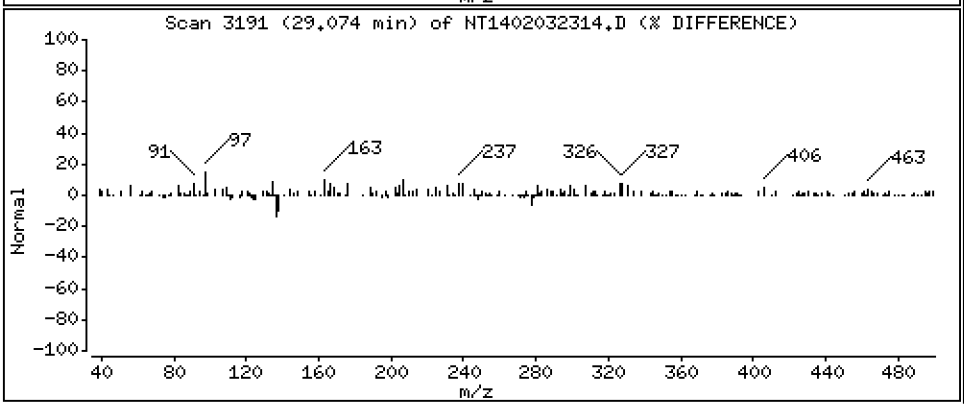
80 Benzo(g,h,i)perylene

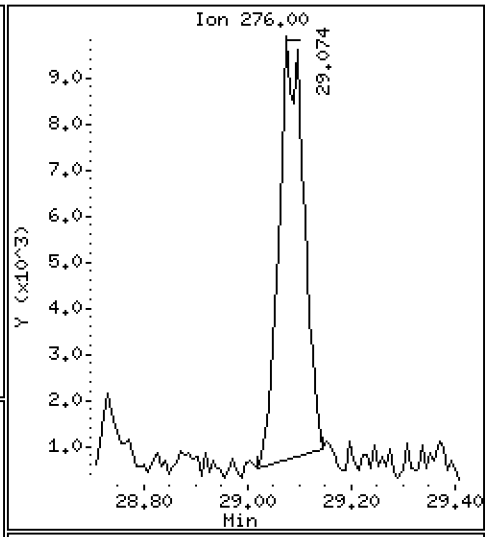
Concentration: 0.8099 ug/mL

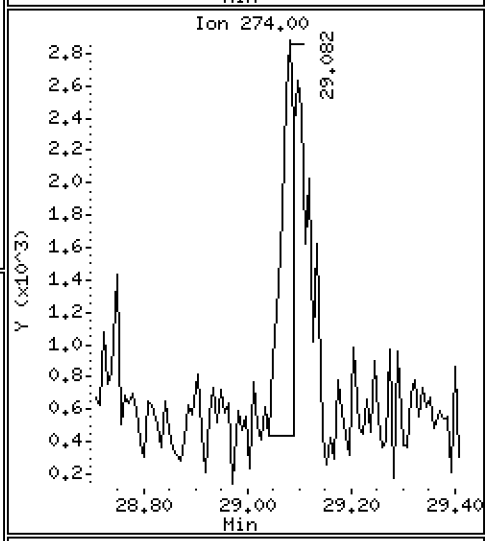


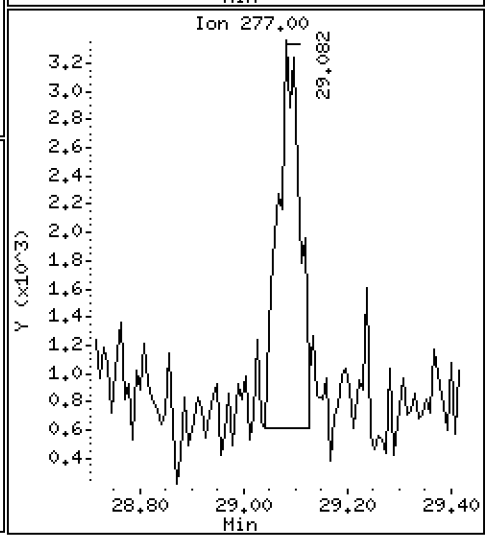












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032314.D

Date : 03-FEB-2023 20:57

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-04

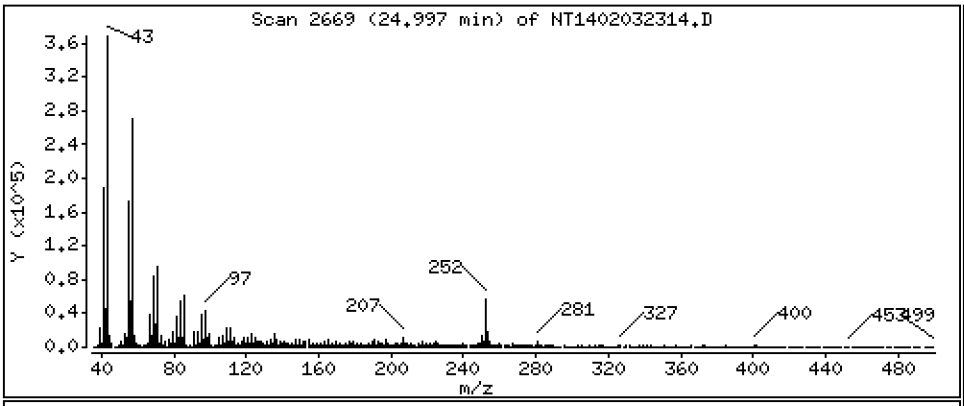
Operator: DSD

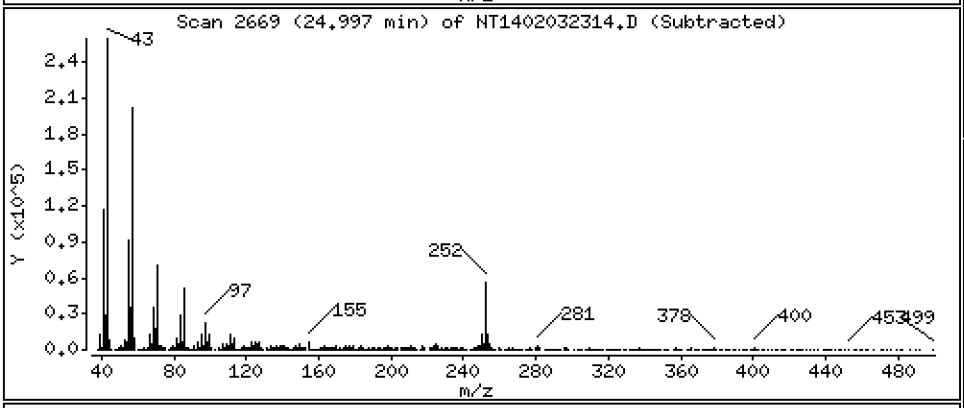
Column phase: ZB-5msi

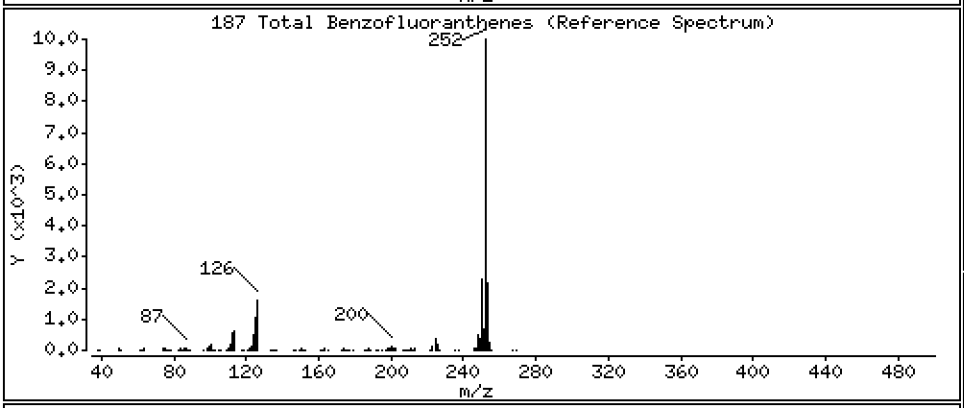
Column diameter: 0.25

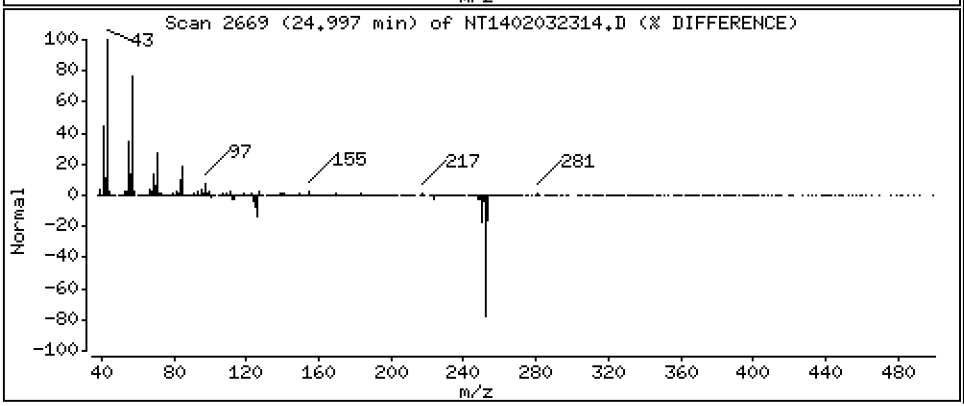
187 Total Benzofluoranthenes

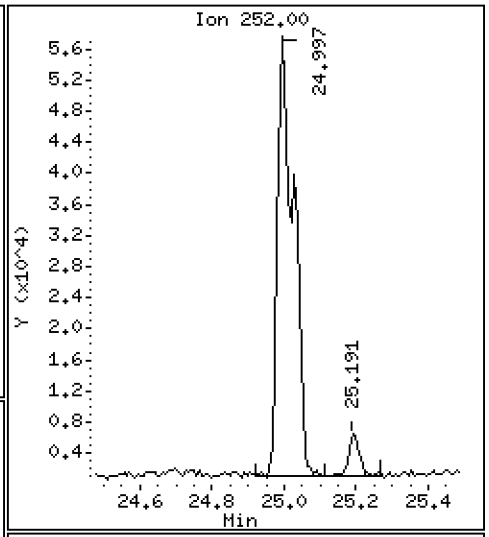
Concentration: 3.754 ug/mL

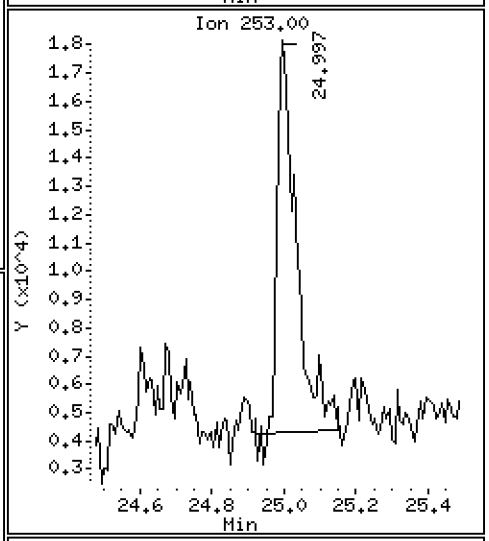


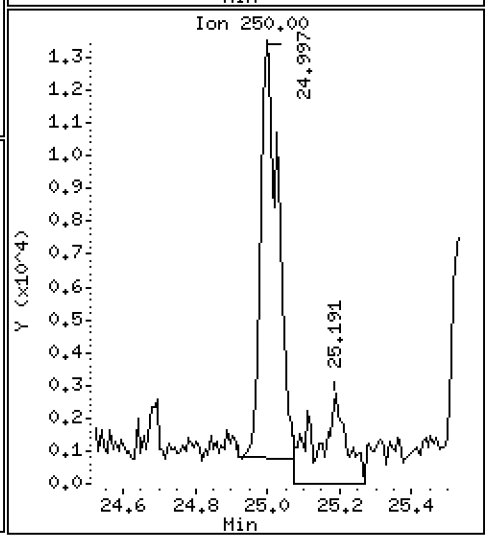












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230203.b\NT1402032314.D
Lab Smp Id: 22L0459-04
Inj Date : 03-FEB-2023 20:57 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : 22L0459-04
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	6.720	6.720	(0.752)	63662	4.04356	4.044
$ 2	Phenol-d5	99	8.312	8.312	(0.930)	90486	4.37424	4.374
3	Phenol	94	8.335	8.336	(0.933)	9949	0.39211	0.3921
$ 5	2-Chlorophenol-d4	132	8.575	8.583	(0.959)	97768	4.88645	4.886
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	8.938	8.946	(1.000)	58618	4.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.041)	45706	3.21872	3.219
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	9.218	9.218	(1.031)	1866	0.14917	0.1492(H)
14	2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
15	4-Methylphenol	108	9.722	9.722	(1.088)	11737	0.53375	0.5338
$ 18	Nitrobenzene-d5	82	10.033	10.041	(0.877)	115093	3.32119	3.321
19	Nitrobenzene	77	Compound Not Detected.					
20	Isophorone	82	Compound Not Detected.					
21	2-Nitrophenol	139	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
23	Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
25	2,4-Dichlorophenol	162	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.436	11.436	(1.000)	242204	4.00000	
28	Naphthalene	128	11.475	11.482	(1.003)	12279	0.20149	0.2015
29	4-Chloroaniline	127	Compound Not Detected.					
30	Hexachlorobutadiene	225	Compound Not Detected.					
31	4-Chloro-3-methylphenol	107	Compound Not Detected.					
32	2-Methylnaphthalene	142	12.875	12.882	(1.126)	6886	0.13861	0.1386
33	Hexachlorocyclopentadiene	237	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$ 36	2-Fluorobiphenyl	172	13.664	13.664	(0.907)	199608	3.52780	3.528
37	2-Chloronaphthalene	162	Compound Not Detected.					
38	2-Nitroaniline	65	Compound Not Detected.					
39	Dimethylphthalate	163	Compound Not Detected.					
40	Acenaphthylene	152	14.740	14.748	(0.979)	6065	0.08231	0.08231
41	2,6-Dinitrotoluene	165	Compound Not Detected.					
* 42	Acenaphthene-d10	164	15.057	15.057	(1.000)	158986	4.00000	
43	3-Nitroaniline	138	Compound Not Detected.					
44	Acenaphthene	153	15.126	15.127	(1.005)	6013	0.12064	0.1206
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	15.443	15.451	(1.026)	8876	0.12289	0.1229
47	4-Nitrophenol	109	Compound Not Detected.					
48	2,4-Dinitrotoluene	165	Compound Not Detected.					
50	Diethylphthalate	149	16.023	16.031	(1.064)	17789	0.20097	0.2010
49	Fluorene	166	16.162	16.163	(1.073)	10227	0.11514	0.1151
51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
52	4-Nitroaniline	138	Compound Not Detected.					
53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$ 55	2,4,6-Tribromophenol	330	16.702	16.702	(1.109)	74566	5.67631	5.676
56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	18.101	18.093	(1.000)	312112	4.00000	
60	Phenanthrene	178	18.147	18.147	(1.003)	65897	0.78250	0.7825
61	Anthracene	178	18.240	18.232	(1.008)	23780	0.29552	0.2955
62	Carbazole	167	18.572	18.565	(1.026)	11434	0.15474	0.1547
63	Di-n-butylphthalate	149	19.385	19.377	(1.071)	30068	0.26246	0.2625
64	Fluoranthene	202	20.569	20.538	(0.888)	111674	2.33422	2.334
65	Pyrene	202	20.979	20.963	(0.906)	167571	3.47820	3.478
$ 66	Terphenyl-d14	244	21.257	21.250	(0.918)	182001	4.45745	4.457
67	Butylbenzylphthalate	149	22.179	22.179	(0.958)	8574	0.33552	0.3355(M)
68	Benzo(a)anthracene	228	23.131	23.123	(0.999)	40684	0.89692	0.8969
* 69	Chrysene-d12	240	23.162	23.154	(1.000)	124364	4.00000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	23.208	23.201	(1.002)	56583	1.31499	1.315
72	bis(2-Ethylhexyl)phthalate	149	23.208	23.201	(0.960)	65102	1.92313	1.923
* 134	Di-n-octylphthalate-d4	153	24.184	24.184	(1.000)	205867	4.00000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	24.997	24.981	(0.971)	125750	2.60463	2.605
75	Benzo(k)fluoranthene	252	25.028	25.020	(0.972)	64578	1.30649	1.306(M)
76	Benzo(a)pyrene	252	25.632	25.616	(0.996)	56743	1.37554	1.376
* 77	Perylene-d12	264	25.740	25.725	(1.000)	137392	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.328	28.305	(1.101)	39367	0.75537	0.7554
79	Dibenzo(a,h)anthracene	278	28.320	28.305	(1.100)	10154	0.22624	0.2262
80	Benzo(g,h,i)perylene	276	29.074	29.058	(1.129)	31257	0.80988	0.8099(M)
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	142	Compound Not Detected.					
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.997	24.981	(0.971)	176433	3.75380	3.754
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032314.D
Lab Smp Id: 22L0459-04
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	58618	-9.74
27 Naphthalene-d8	262858	131429	525716	242204	-7.86
42 Acenaphthene-d10	167543	83772	335086	158986	-5.11
59 Phenanthrene-d10	341039	170520	682078	312112	-8.48
69 Chrysene-d12	222731	111366	445462	124364	-44.16
134 Di-n-octylphthala	333425	166713	666850	205867	-38.26
77 Perylene-d12	152721	76361	305442	137392	-10.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.09
27 Naphthalene-d8	11.44	10.94	11.94	11.44	-0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	-0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.10	0.04
69 Chrysene-d12	23.15	22.65	23.65	23.16	0.03
134 Di-n-octylphthala	24.18	23.68	24.68	24.18	-0.00
77 Perylene-d12	25.73	25.23	26.23	25.74	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032314.D

Lab ID: 22L0459-04
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 20:57

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

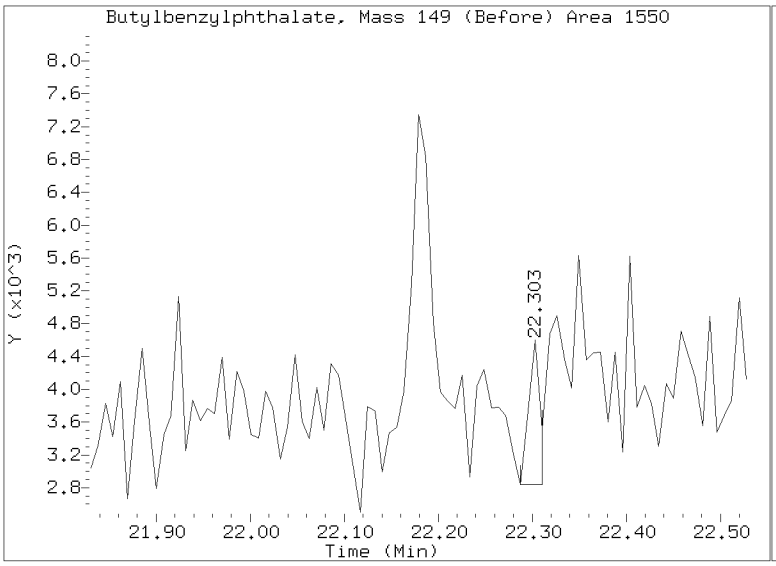
RRT check based on Ccal File: NT1402032303.D

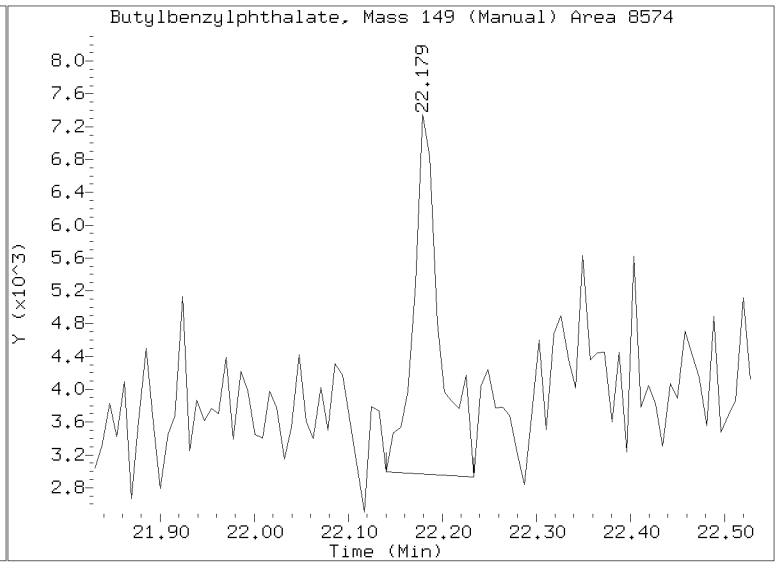
On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

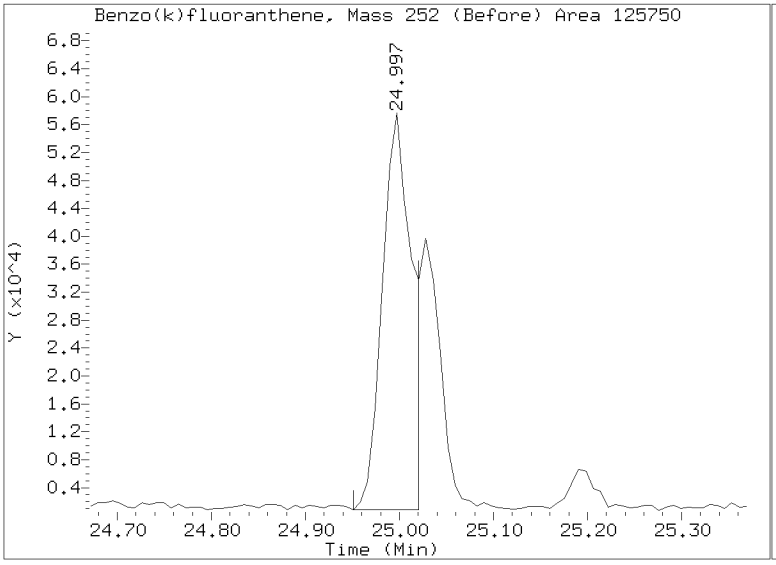
* Only compounds listed in the work order have been verified by the analyst *

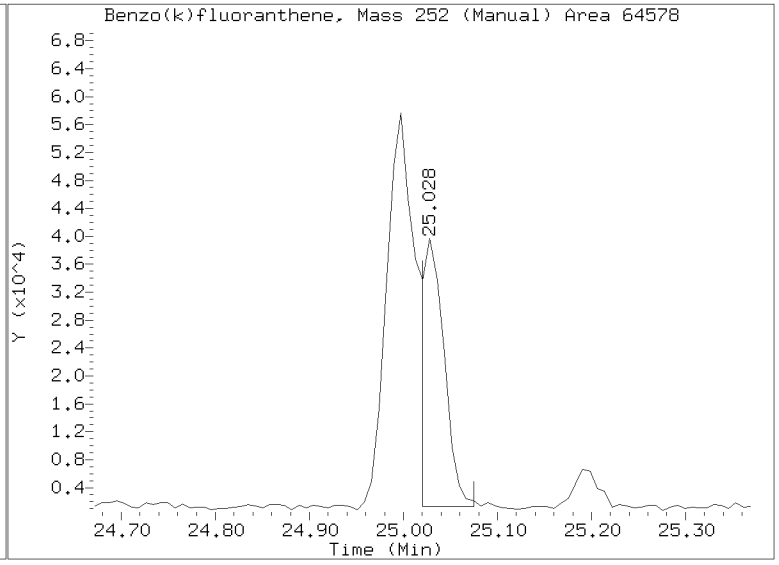
Quant Ion Manual Peak Adjustment Report

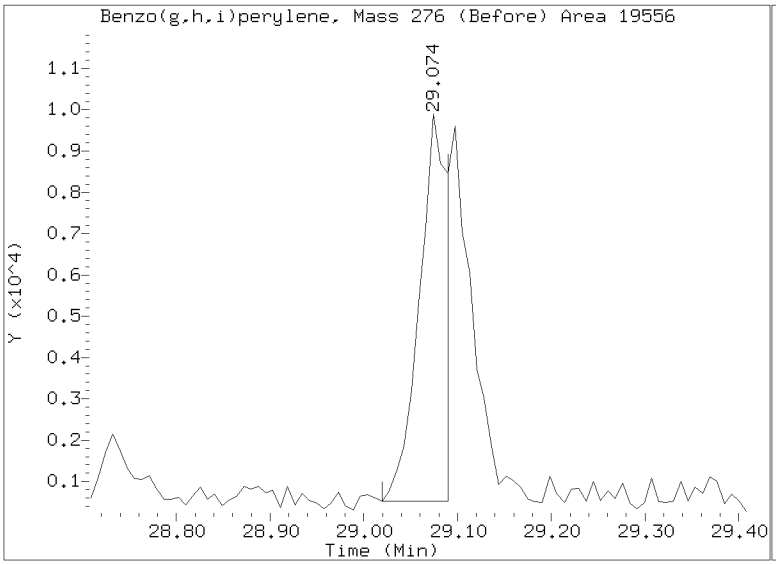
Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032314.D
Injection Date: 03-FEB-2023 20:57
Lab ID:22L0459-04 Client ID:
Report Date: 02/04/2023 10:29

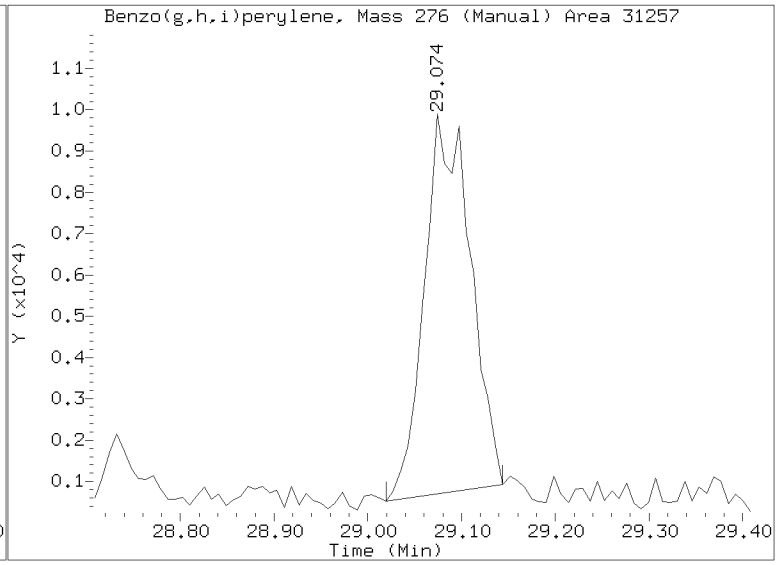












Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1002C

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-05 A	SDG:	22L0459
Sampled:	12/16/22 11:20	Prepared:	01/05/23 16:13	File ID:	NT1402032315.D
% Solids:	54.59	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 21:33
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	18.35 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	78.9		4.4	20.0
106-44-5	4-Methylphenol	1	41.3		7.4	20.0
91-20-3	Naphthalene	1	36.6		4.2	20.0
91-57-6	2-Methylnaphthalene	1	29.4		4.5	20.0
208-96-8	Acenaphthylene	1	33.4		6.2	20.0
131-11-3	Dimethylphthalate	1	20.0	U	4.4	20.0
83-32-9	Acenaphthene	1	17.8	J	5.2	20.0
132-64-9	Dibenzofuran	1	23.3		14.1	20.0
86-73-7	Fluorene	1	41.5		14.5	20.0
85-01-8	Phenanthrene	1	206		8.7	20.0
120-12-7	Anthracene	1	154		7.2	20.0
206-44-0	Fluoranthene	1	404		6.1	20.0
129-00-0	Pyrene	1	1020		5.7	20.0
85-68-7	Butylbenzylphthalate	1	25.5	M	9.4	20.0
56-55-3	Benzo(a)anthracene	1	886		5.9	20.0
218-01-9	Chrysene	1	1160		6.0	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	337		5.5	49.9
	Benzofluoranthenes, Total	1	3890		10.0	39.9
50-32-8	Benzo(a)pyrene	1	1440		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	437		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	175		17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	433		13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.71	432	57.7	27 - 120	
Phenol-d5	748.71	483	64.5	29 - 120	
2-Chlorophenol-d4	748.71	546	72.9	31 - 120	
1,2-Dichlorobenzene-d4	499.14	339	67.9	32 - 120	
Nitrobenzene-d5	499.14	360	72.0	30 - 120	
2-Fluorobiphenyl	499.14	396	79.3	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1002C

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

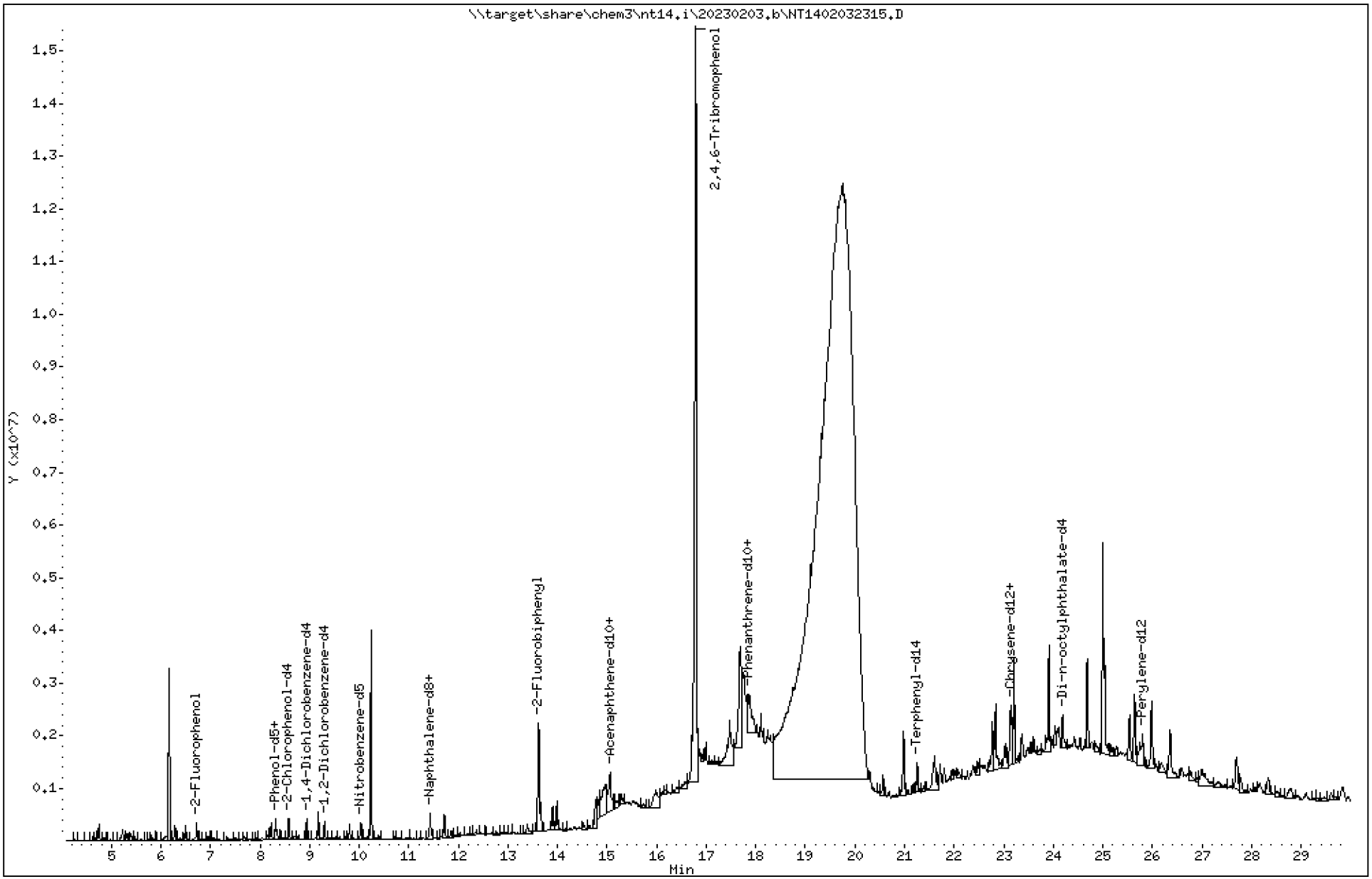
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-05 A	SDG:	22L0459
Sampled:	12/16/22 11:20	Prepared:	01/05/23 16:13	File ID:	NT1402032315.D
% Solids:	54.59	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 21:33
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	18.35 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	748.71	679	90.6	24 - 134	
p-Terphenyl-d14	499.14	419	83.9	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032315.D
Date : 03-FEB-2023 21:33
Client ID:
Sample Info: 22L0459-05

Instrument: nt14.i
Operator: DSD
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

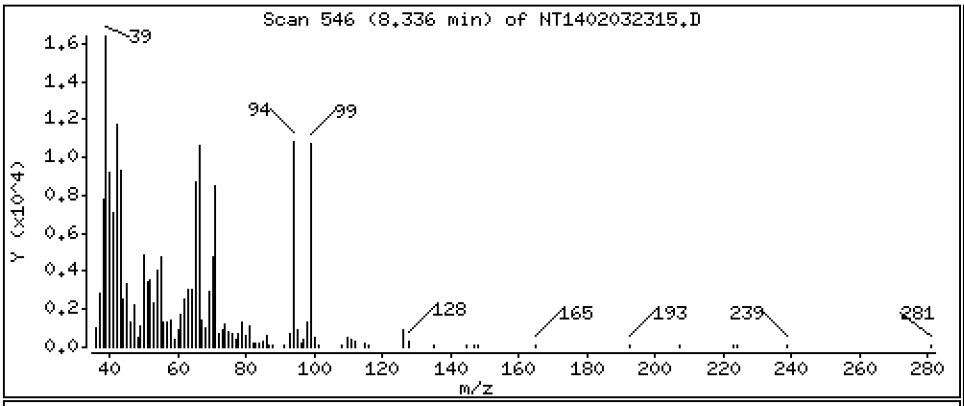
Operator: DSD

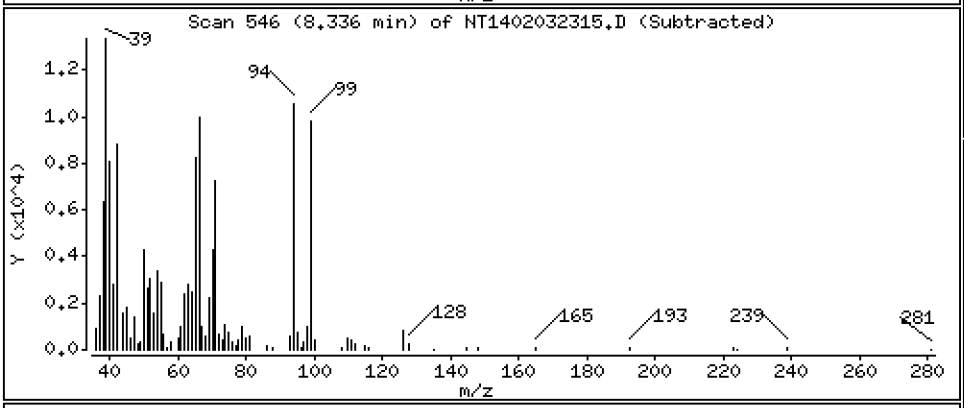
Column phase: ZB-5msi

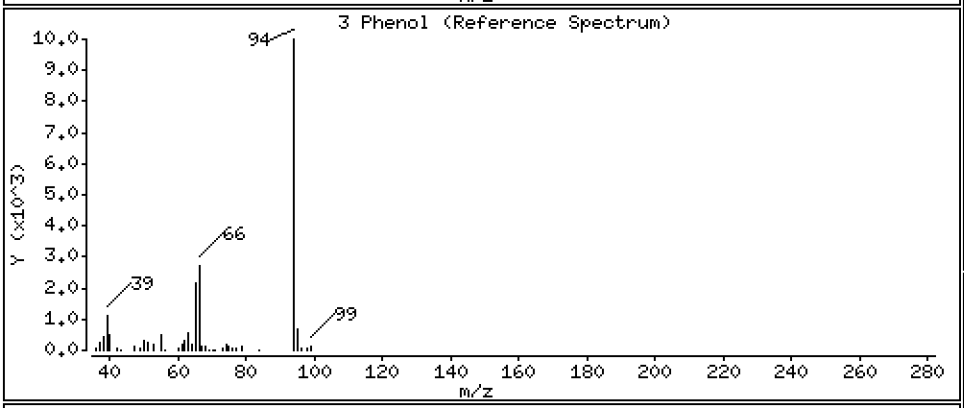
Column diameter: 0.25

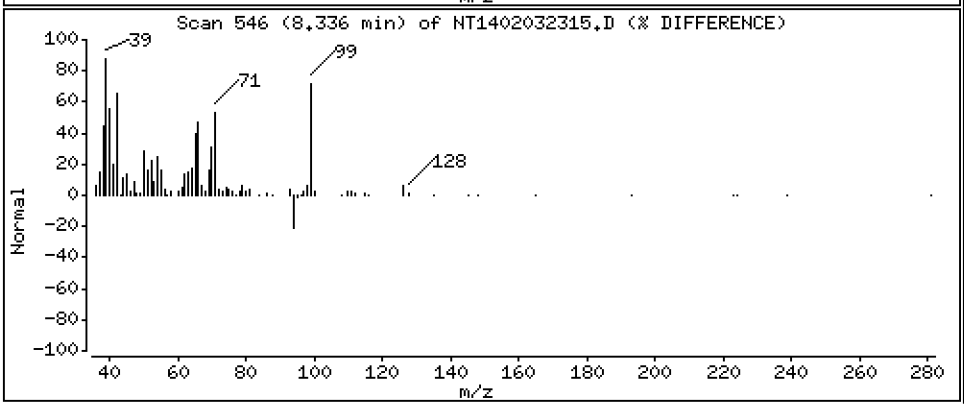
3 Phenol

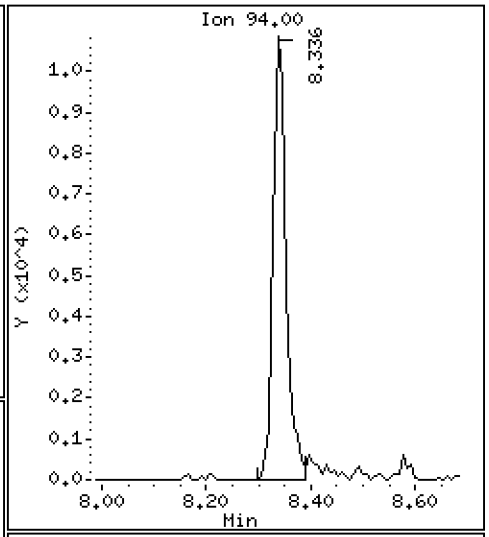
Concentration: 0.7906 ug/mL

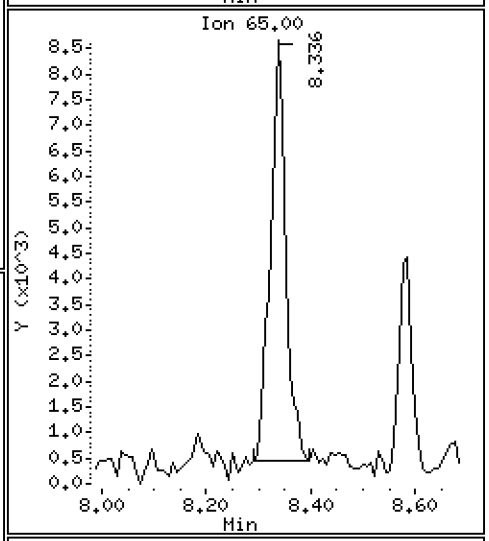


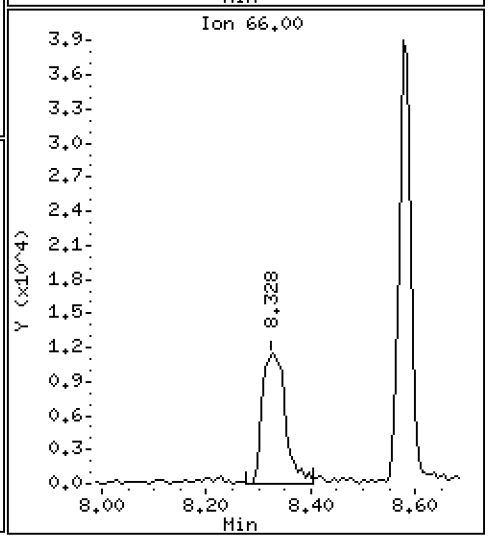












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

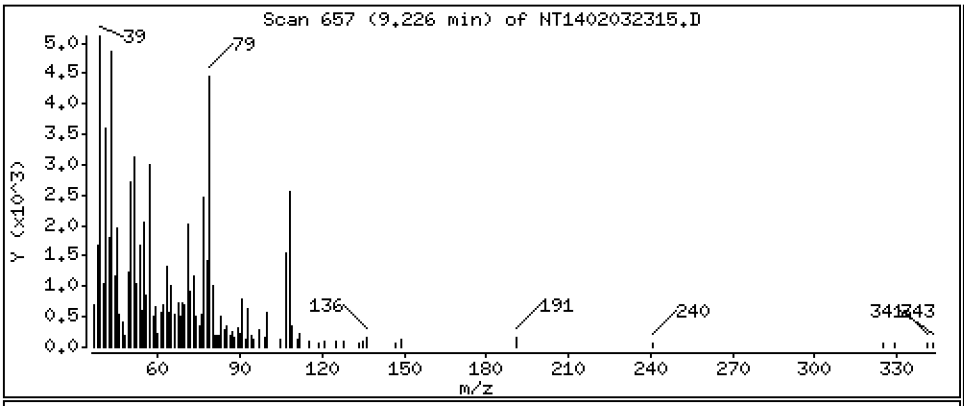
Operator: DSD

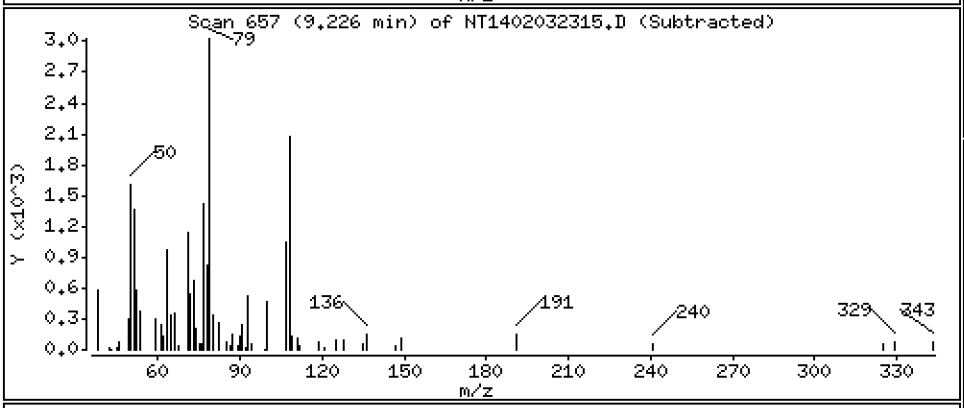
Column phase: ZB-5msi

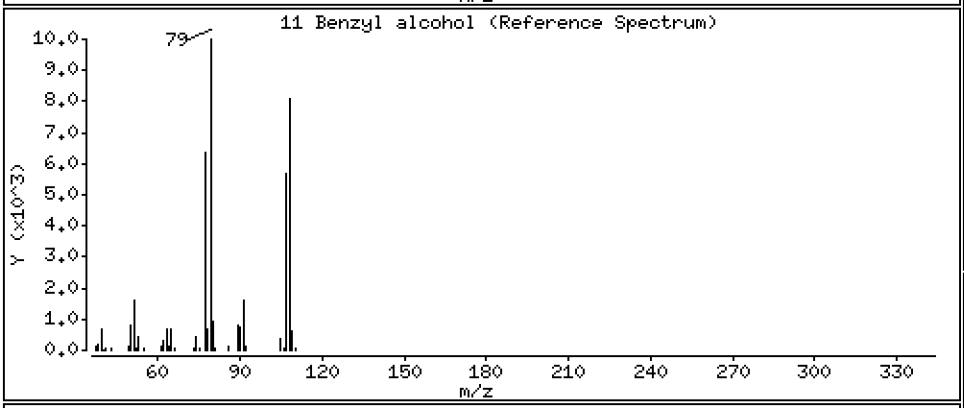
Column diameter: 0.25

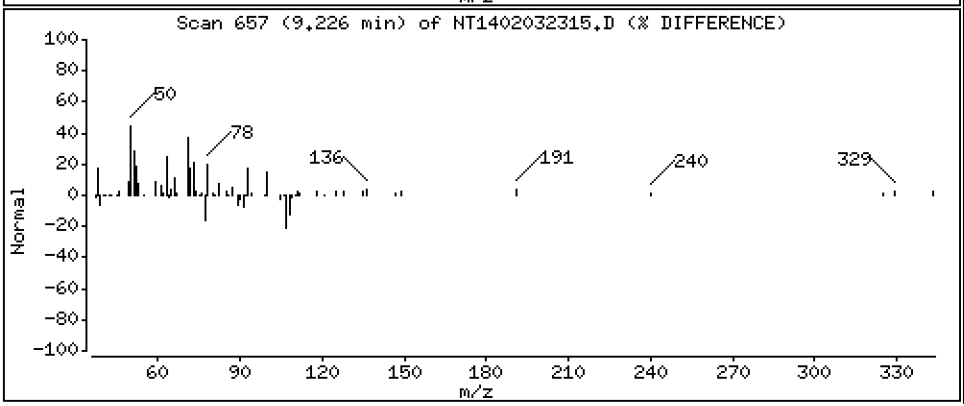
11 Benzyl alcohol

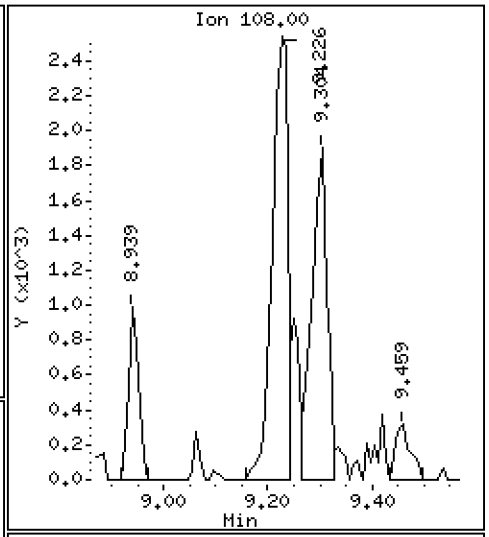
Concentration: 0.4546 ug/mL

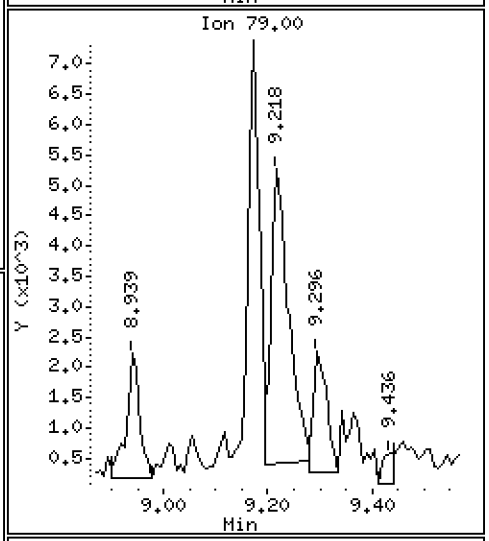


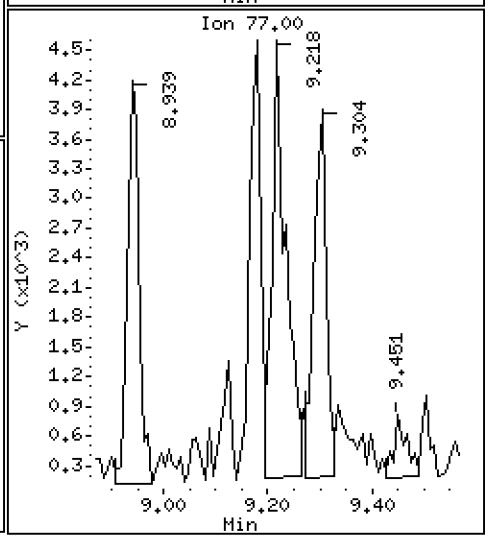












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

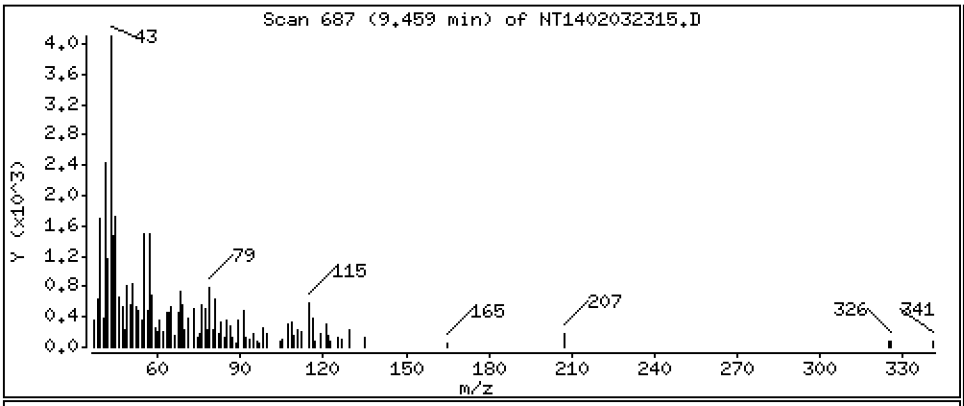
Operator: DSD

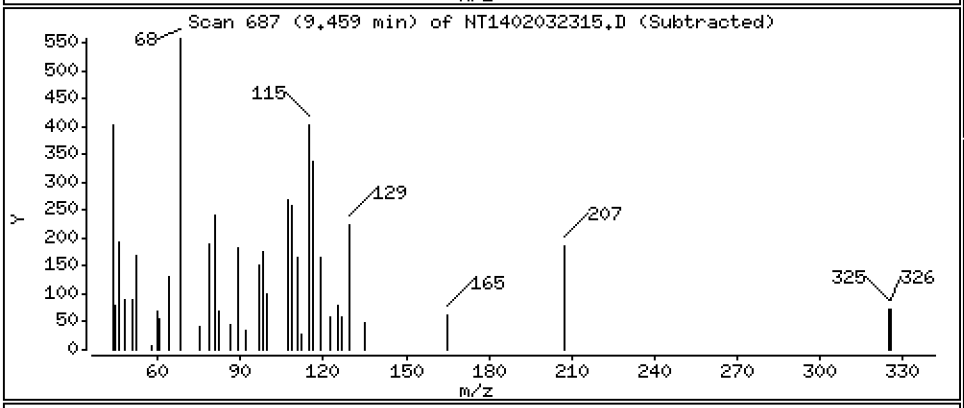
Column phase: ZB-5msi

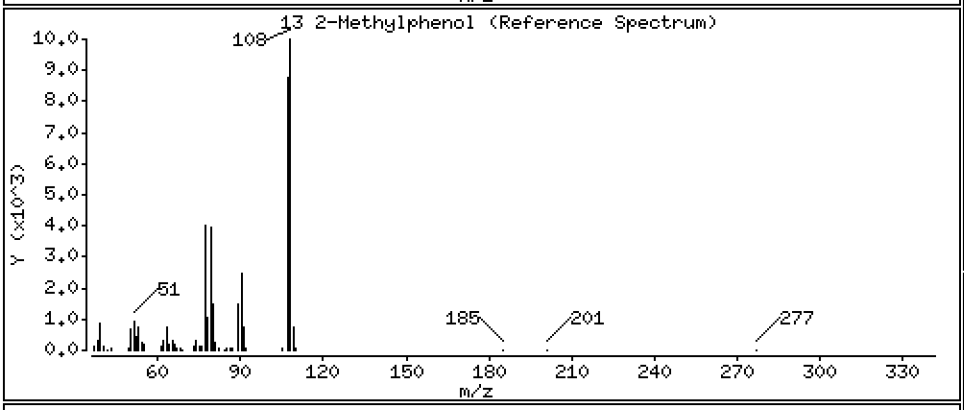
Column diameter: 0.25

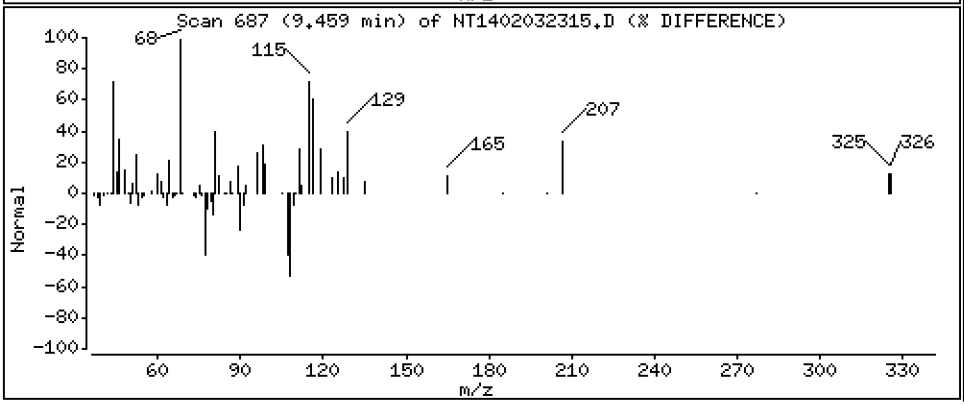
13 2-Methylphenol

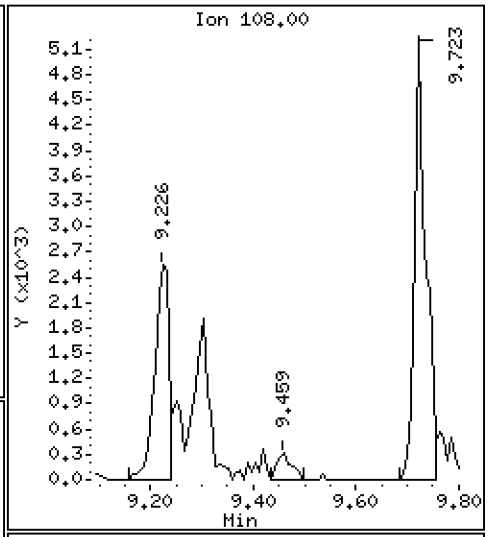
Concentration: 0.03463 ug/mL

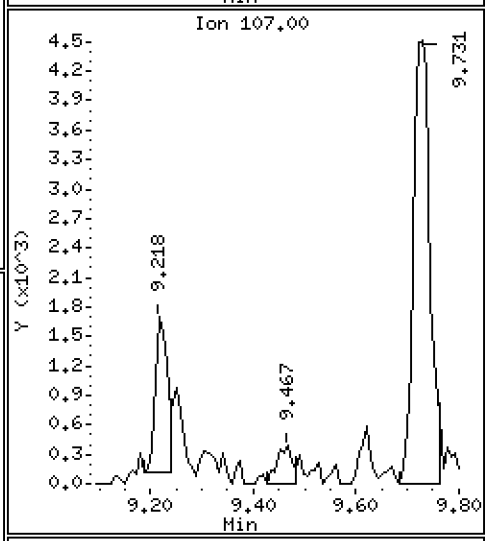


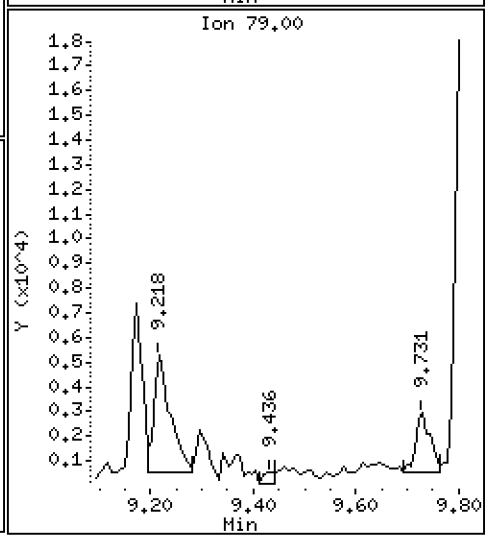












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

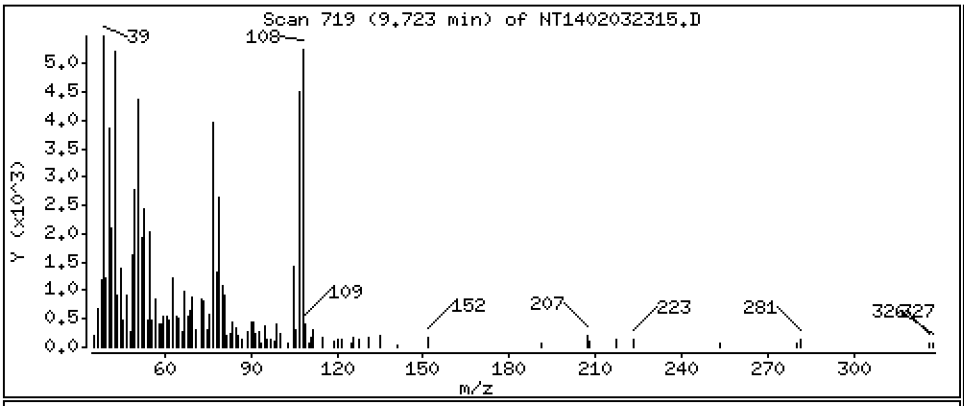
Operator: DSD

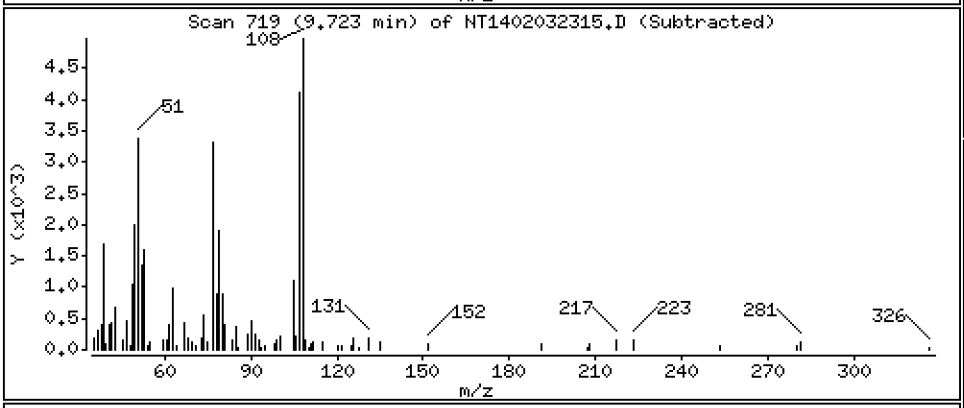
Column phase: ZB-5msi

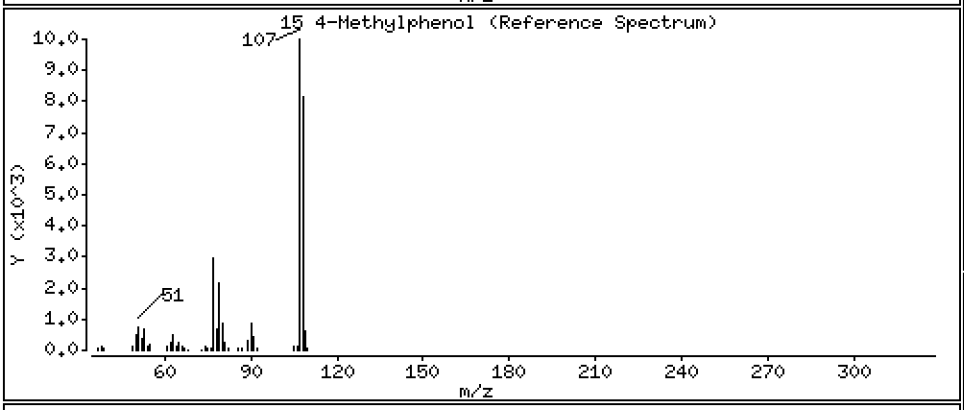
Column diameter: 0.25

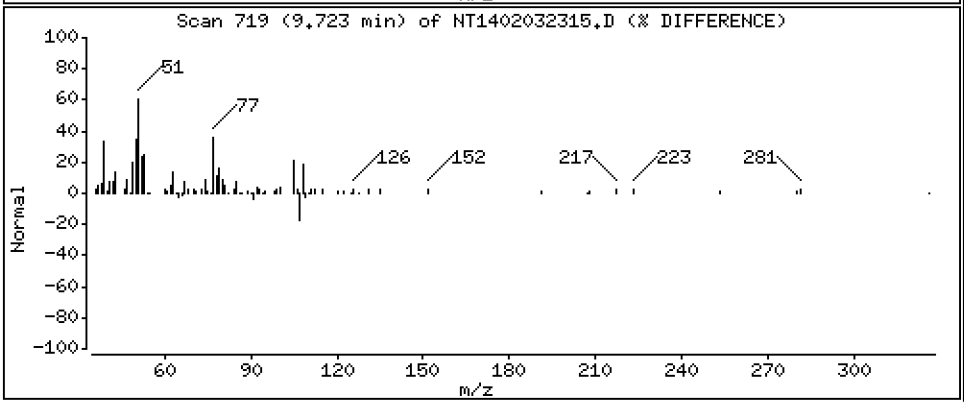
15 4-Methylphenol

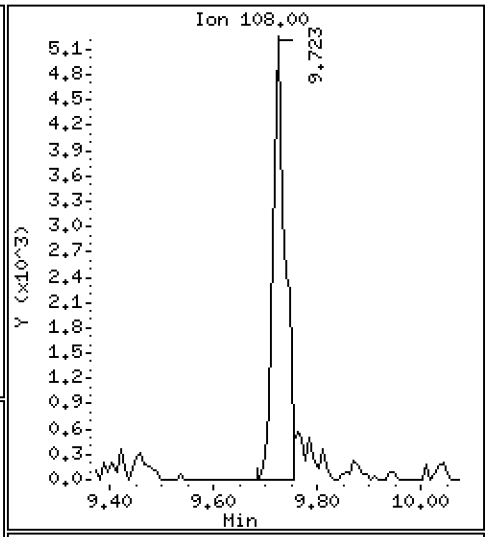
Concentration: 0.4133 ug/mL

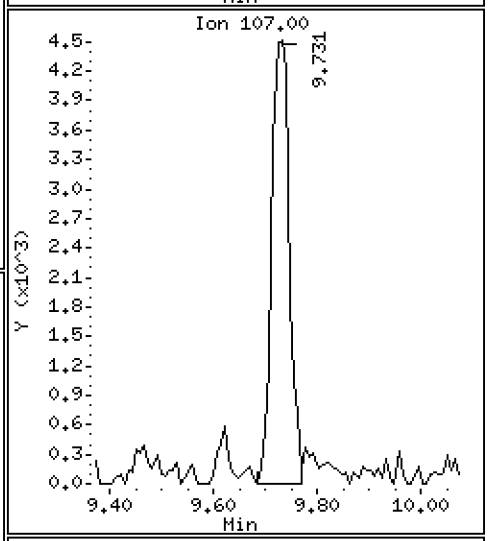


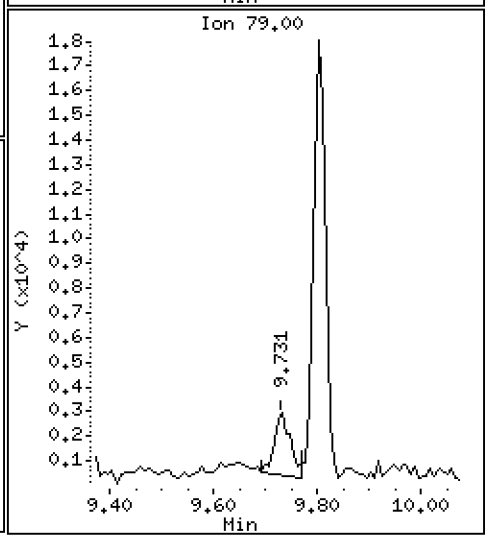












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

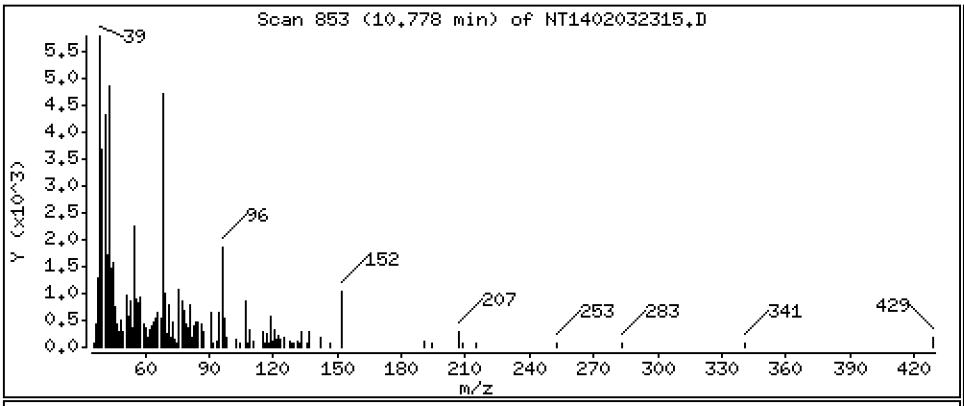
Operator: DSD

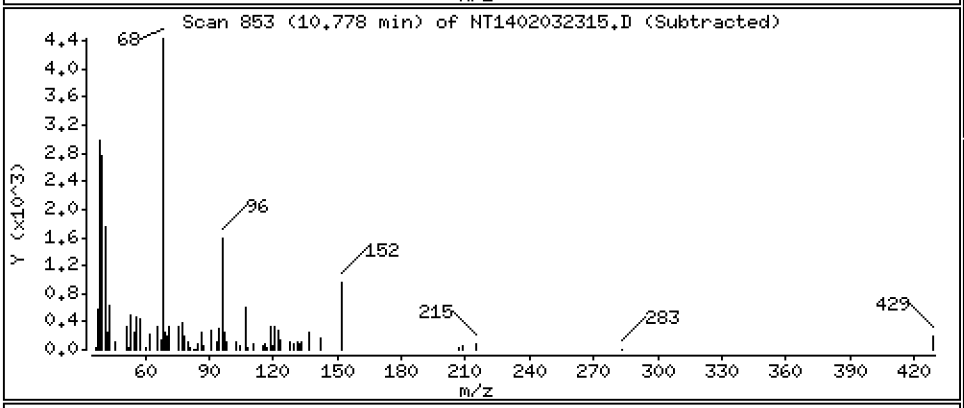
Column phase: ZB-5msi

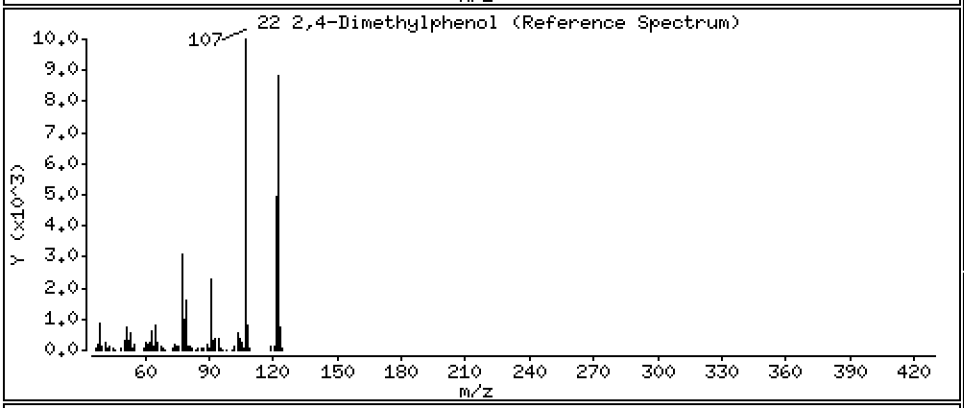
Column diameter: 0.25

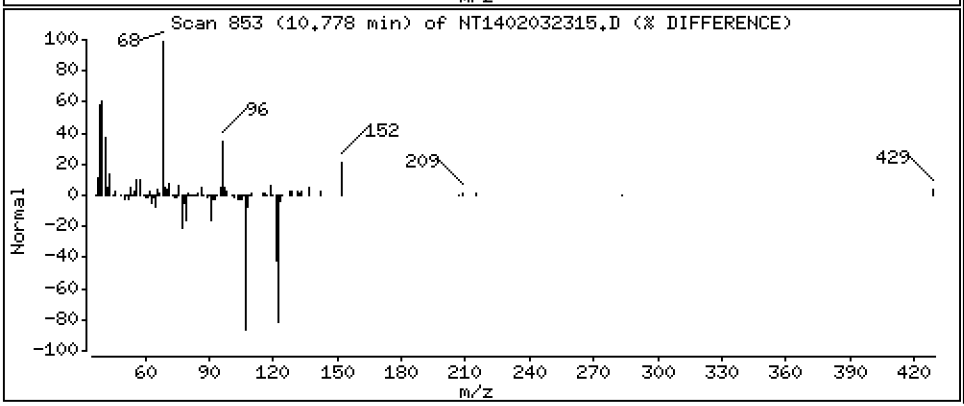
22 2,4-Dimethylphenol

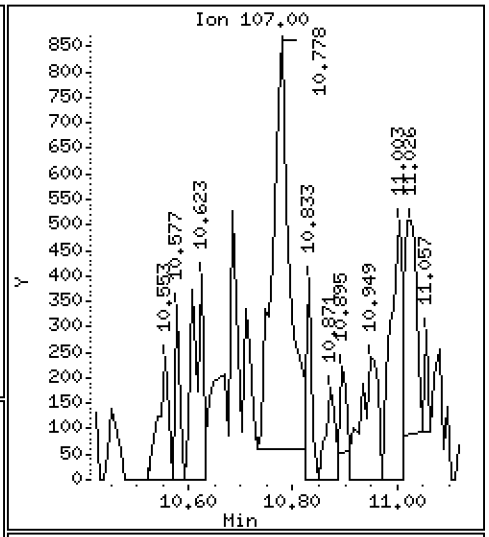
Concentration: 0.05930 ug/mL

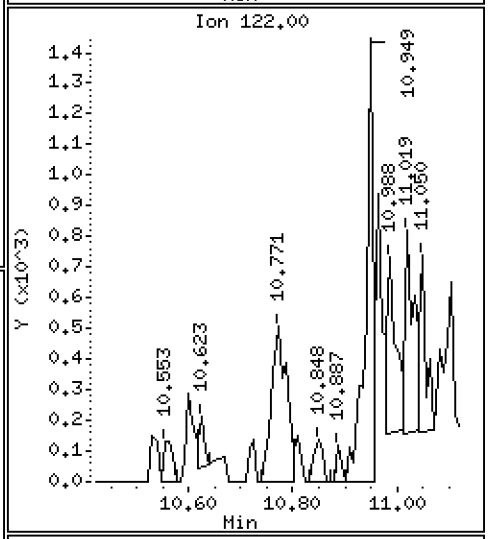


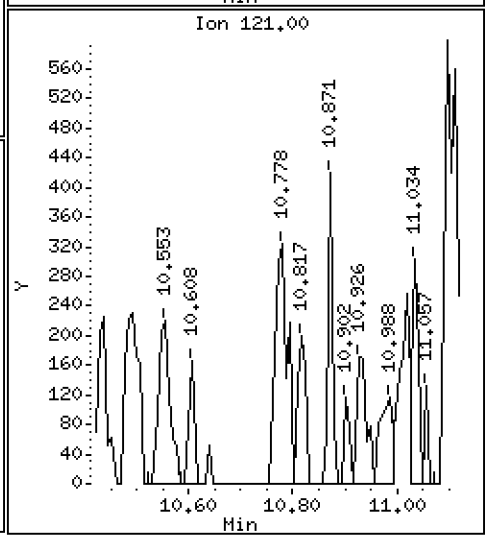












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032315.D

Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

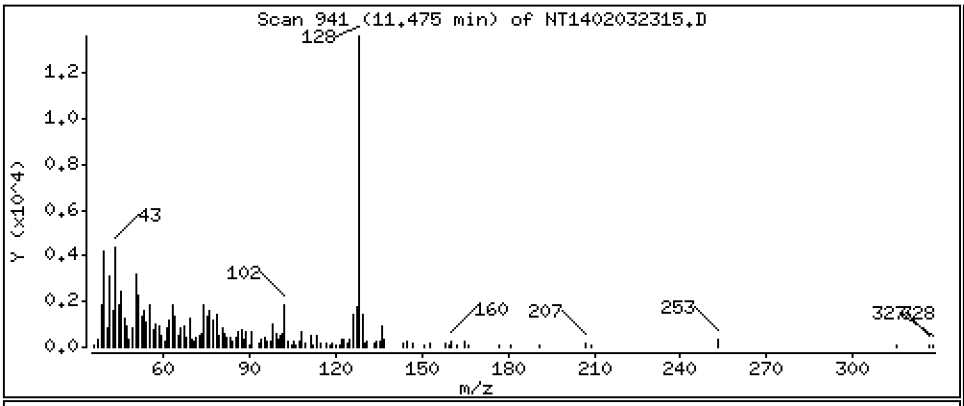
Operator: DSD

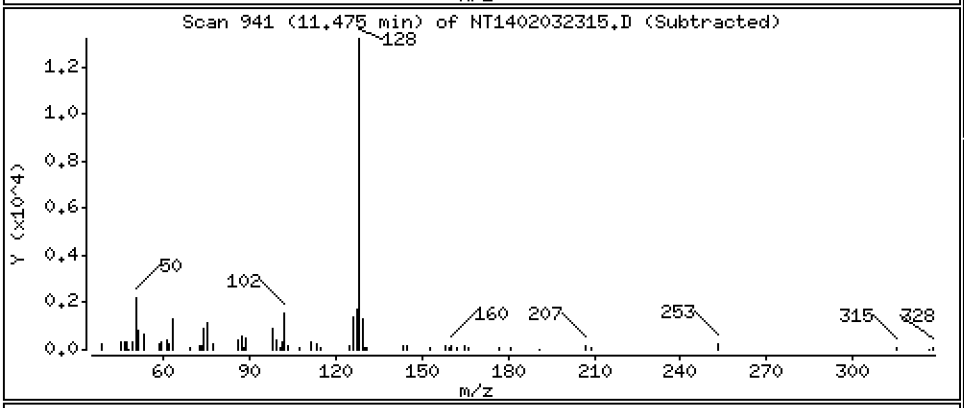
Column phase: ZB-5msi

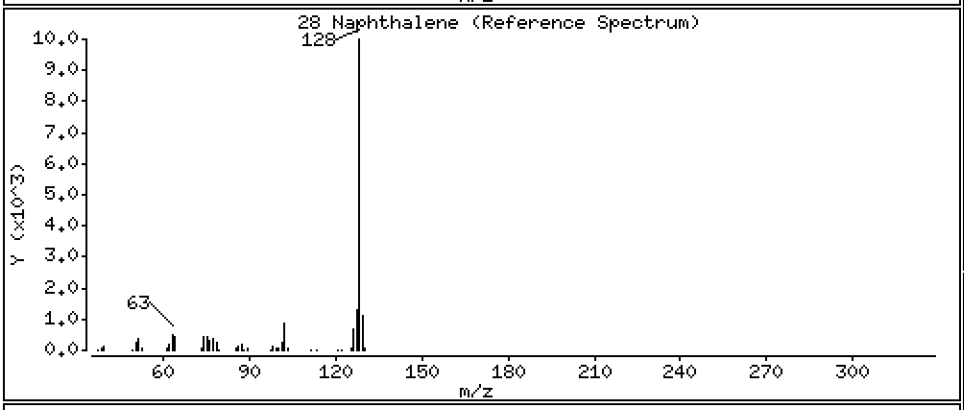
Column diameter: 0.25

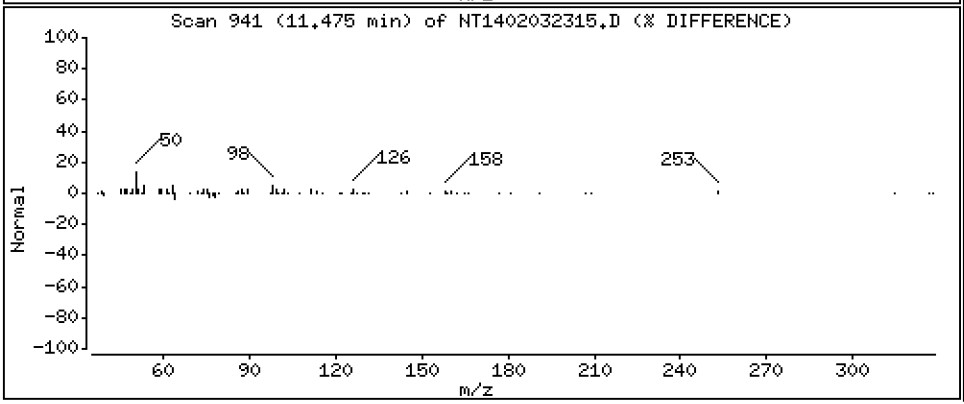
28 Naphthalene

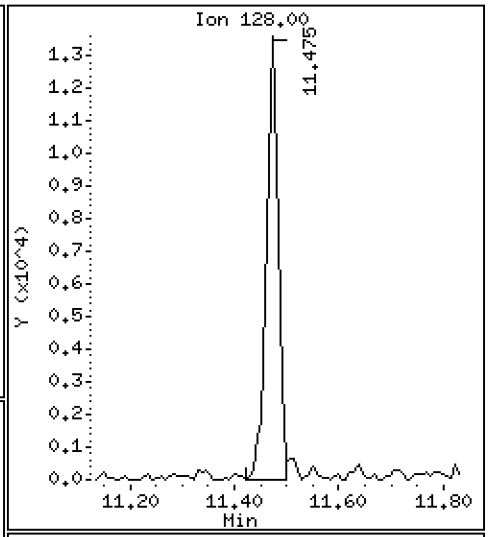
Concentration: 0.3665 ug/mL

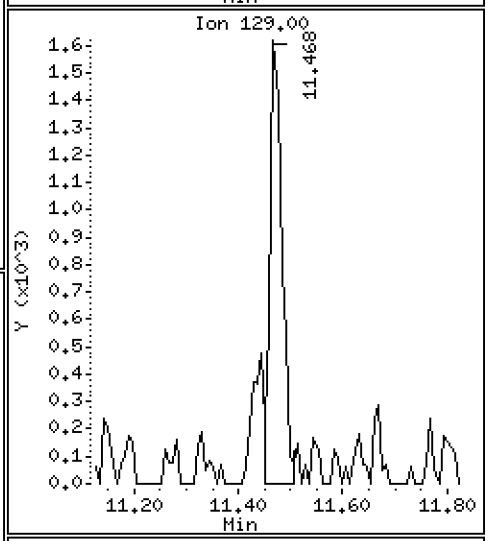


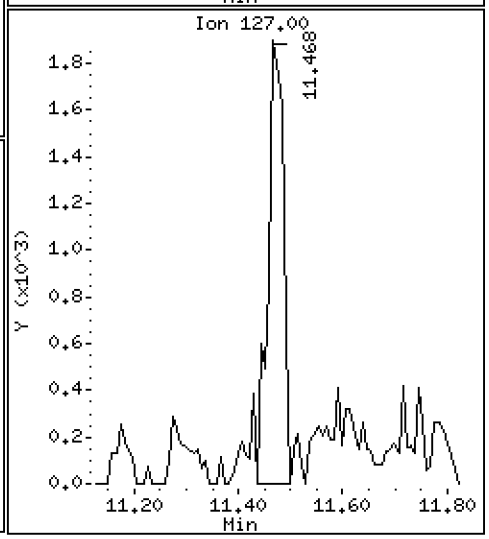












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032315.D

Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

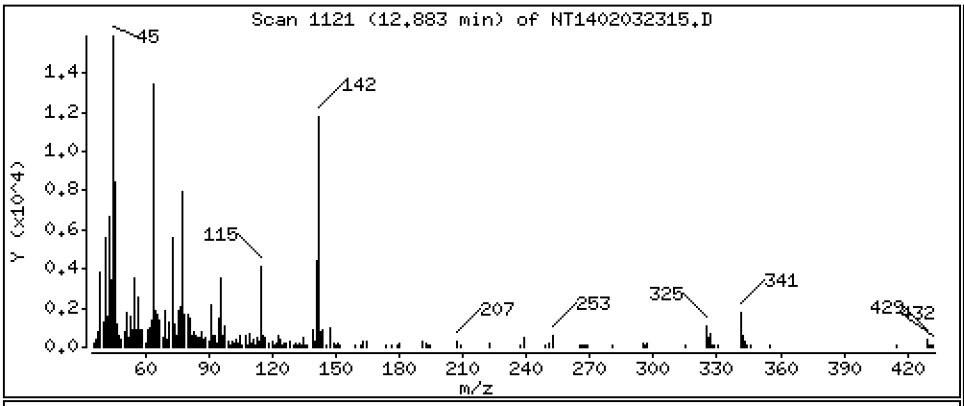
Operator: DSD

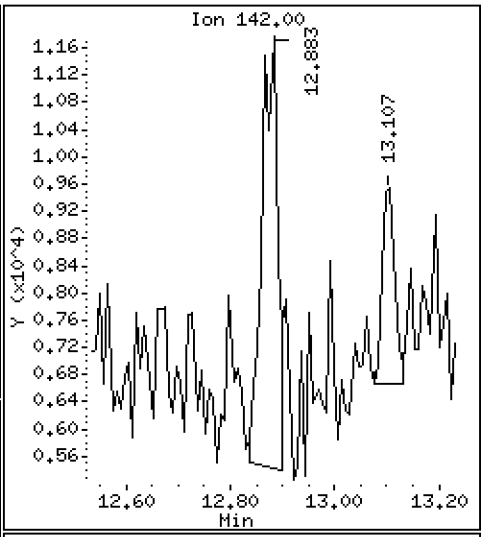
Column phase: ZB-5msi

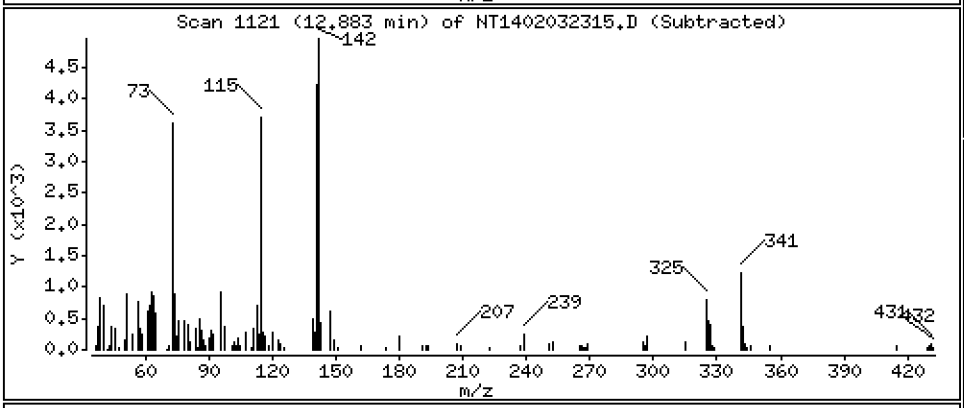
Column diameter: 0.25

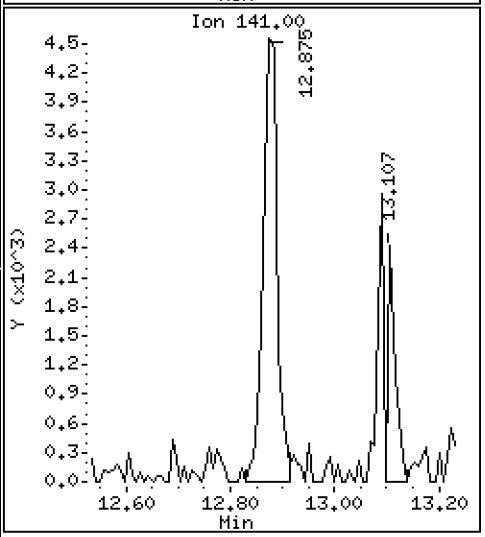
32 2-Methylnaphthalene

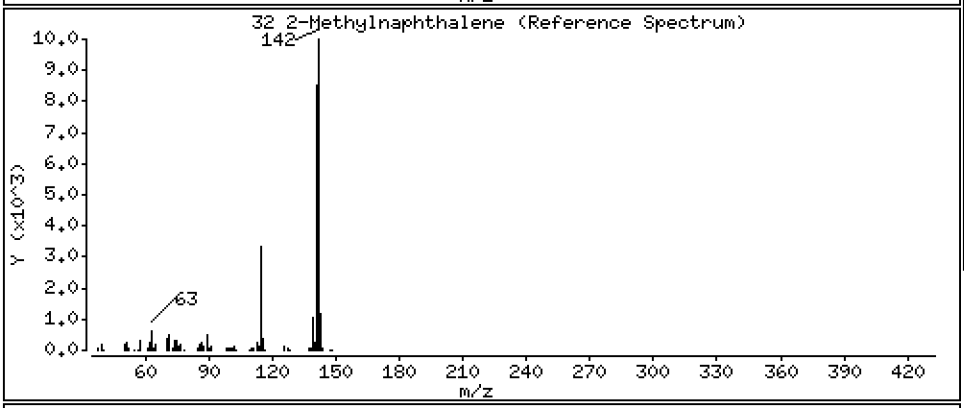
Concentration: 0.2946 ug/mL

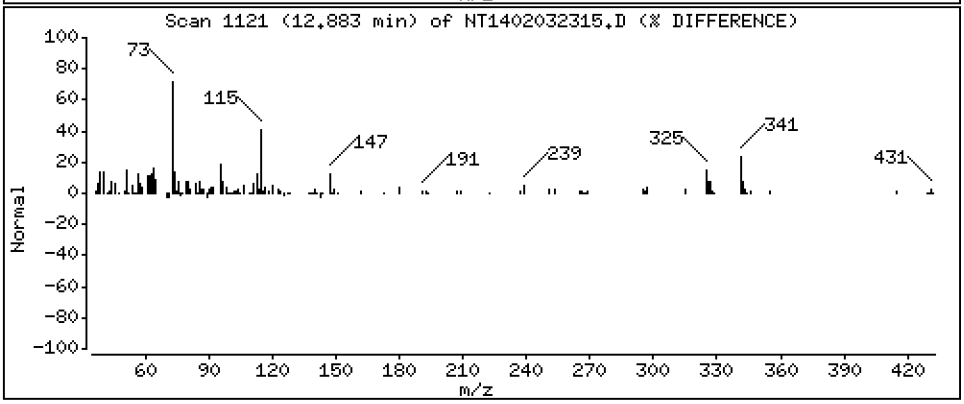












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032315.D

Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

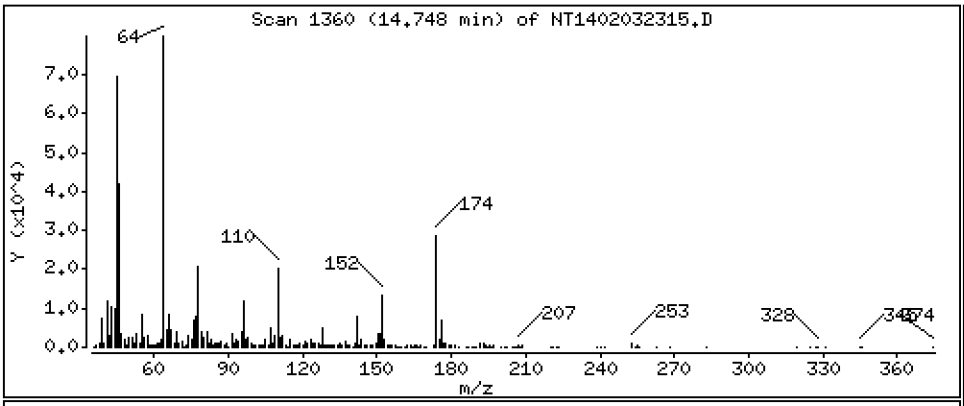
Operator: DSD

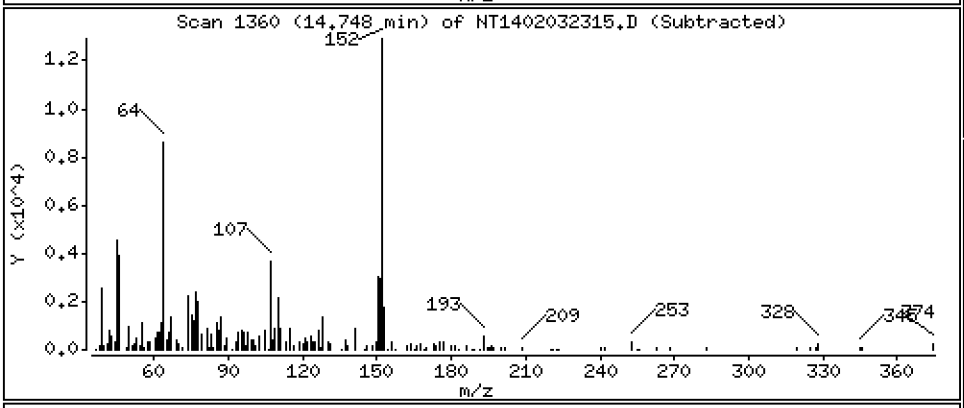
Column phase: ZB-5msi

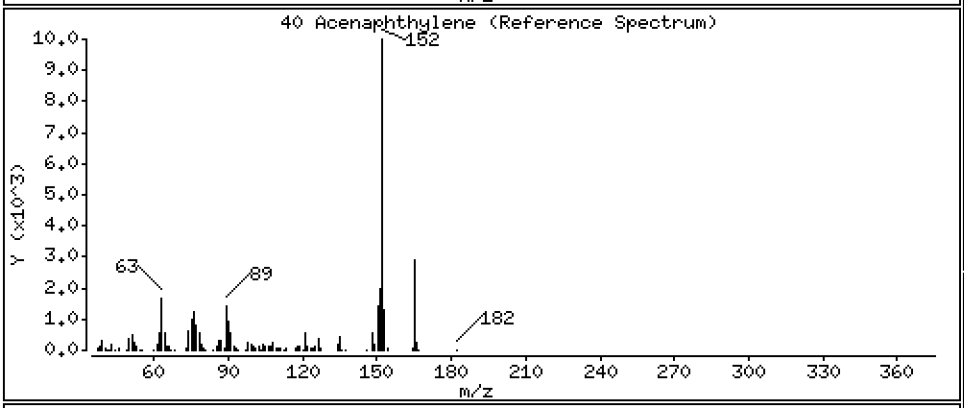
Column diameter: 0.25

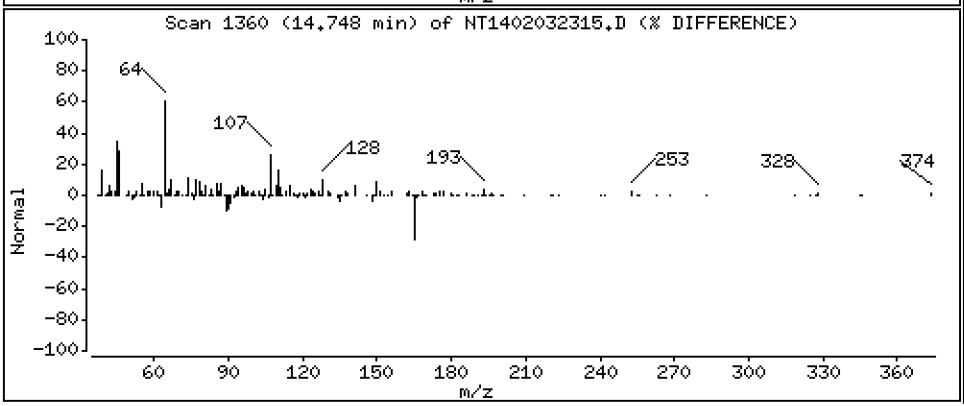
40 Acenaphthylene

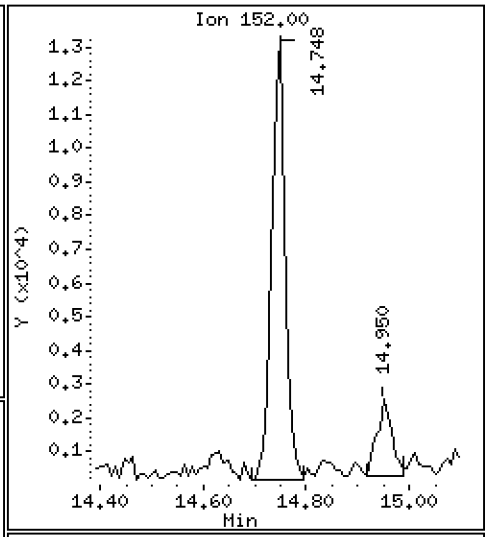
Concentration: 0.3348 ug/mL

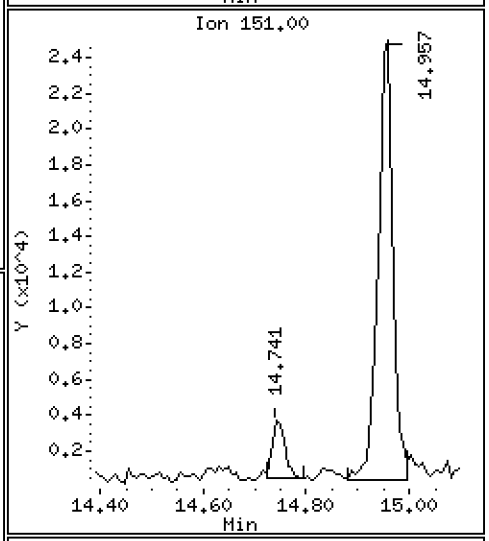


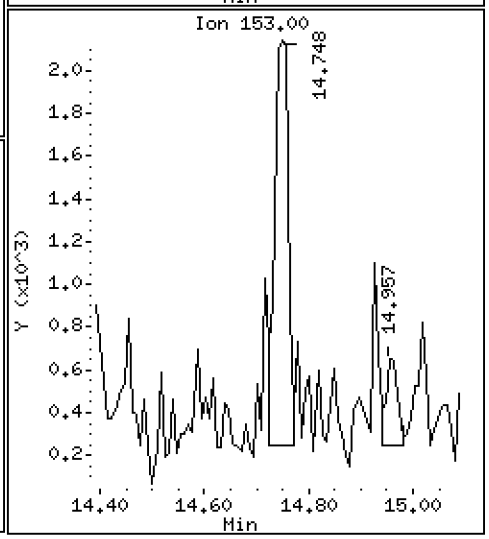












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

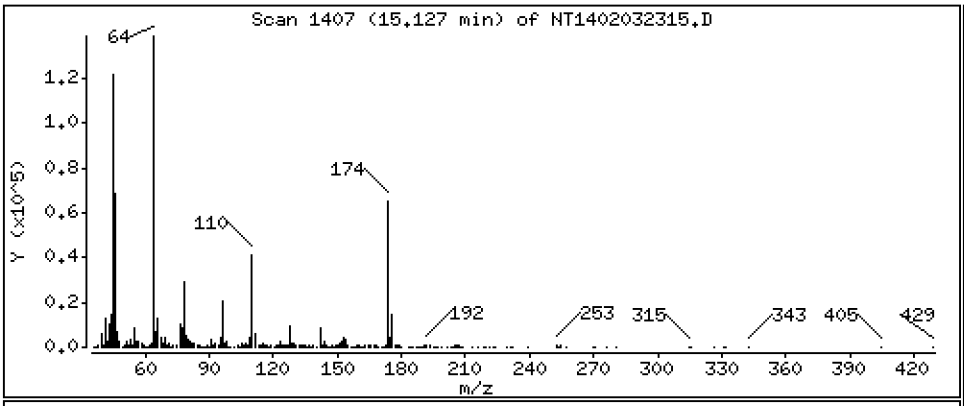
Operator: DSD

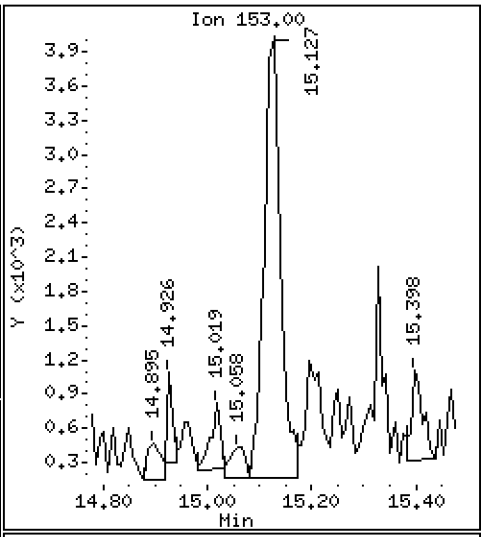
Column phase: ZB-5msi

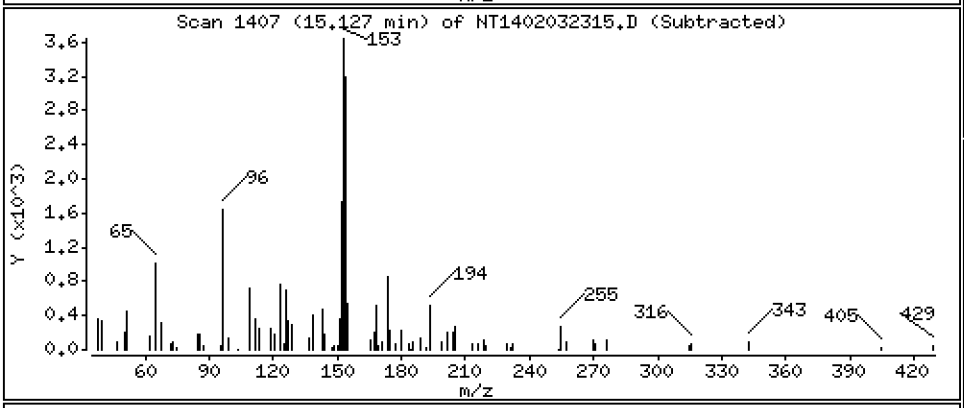
Column diameter: 0.25

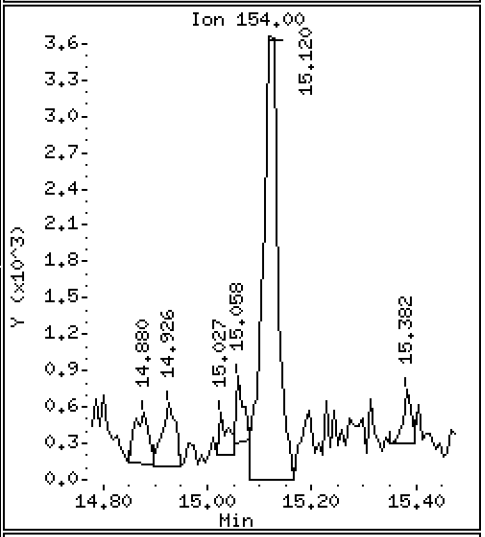
44 Acenaphthene

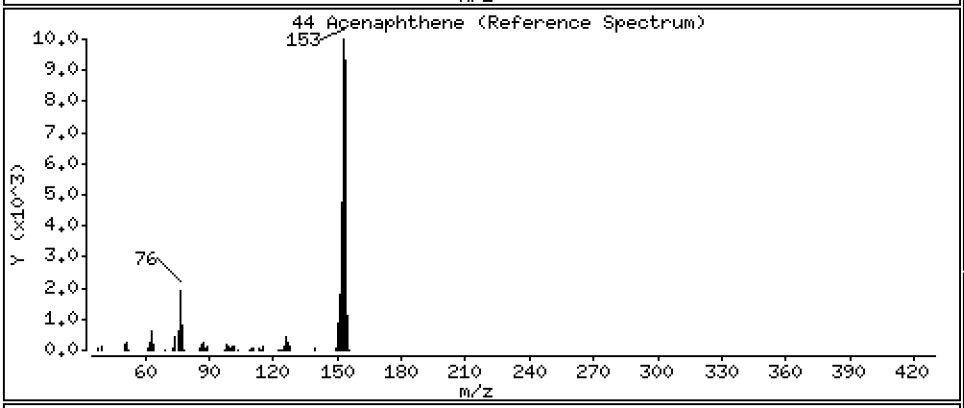
Concentration: 0.1788 ug/mL

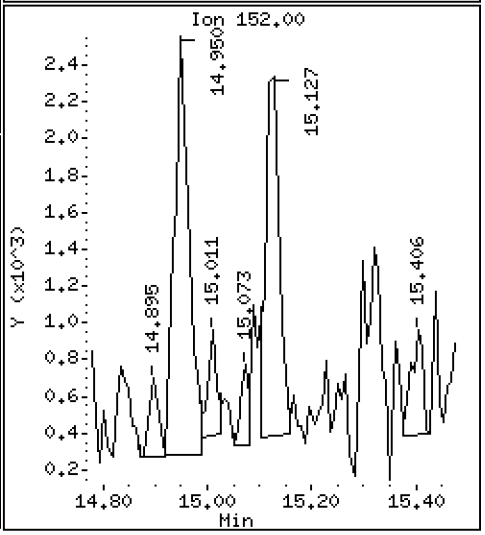


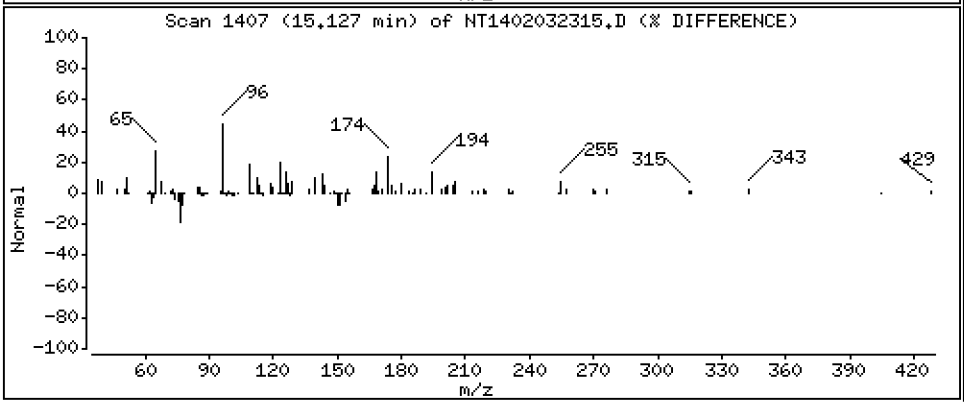












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

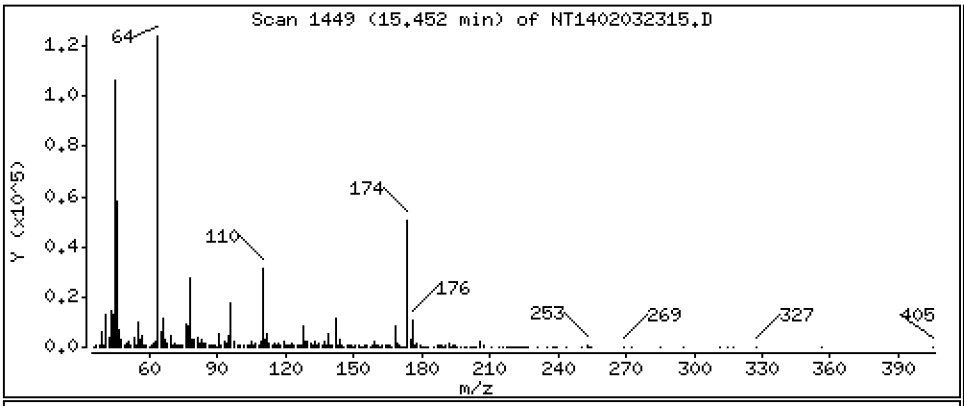
Operator: DSD

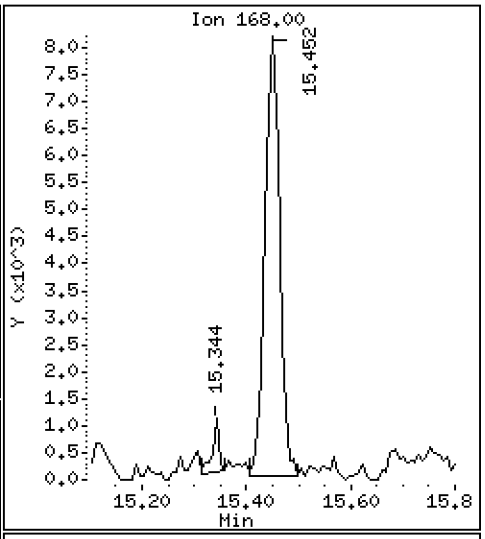
Column phase: ZB-5msi

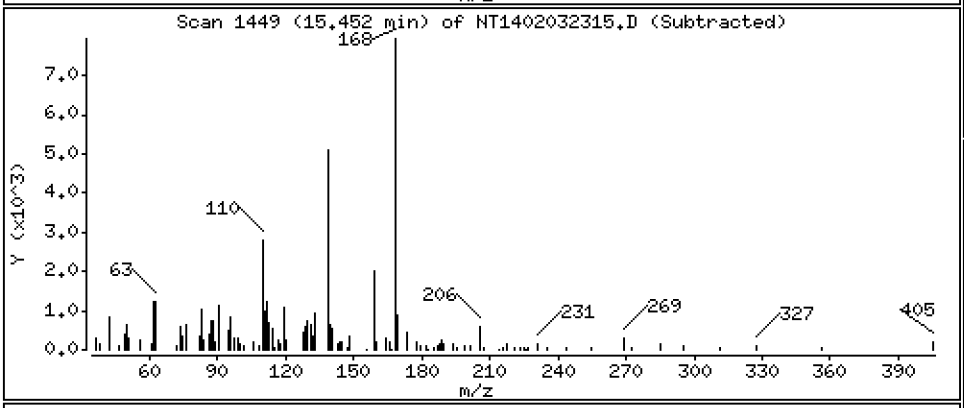
Column diameter: 0.25

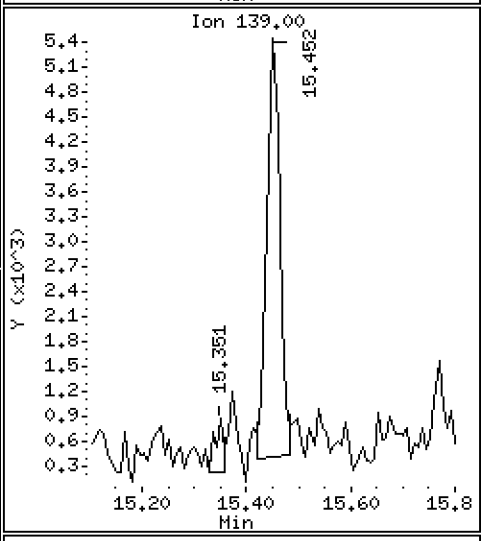
46 Dibenzofuran

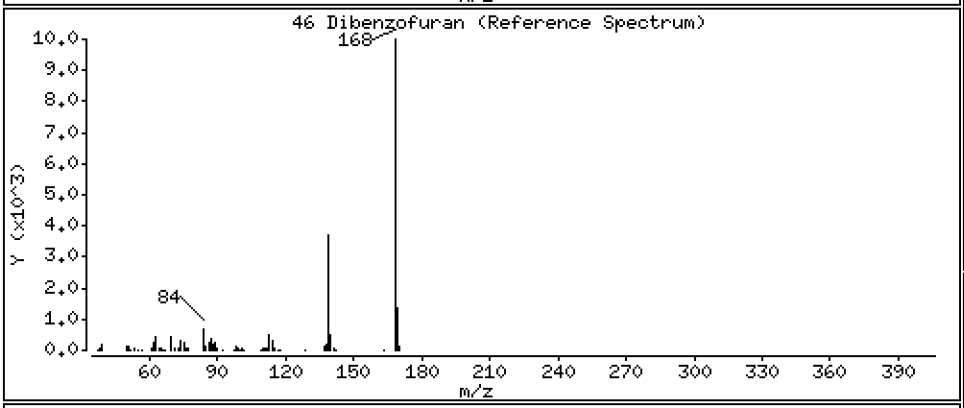
Concentration: 0.2329 ug/mL

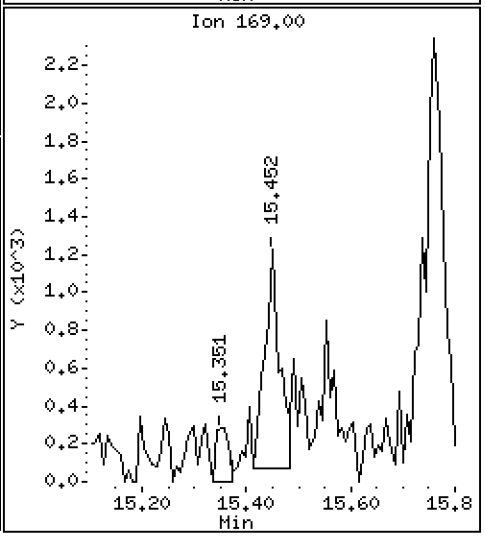


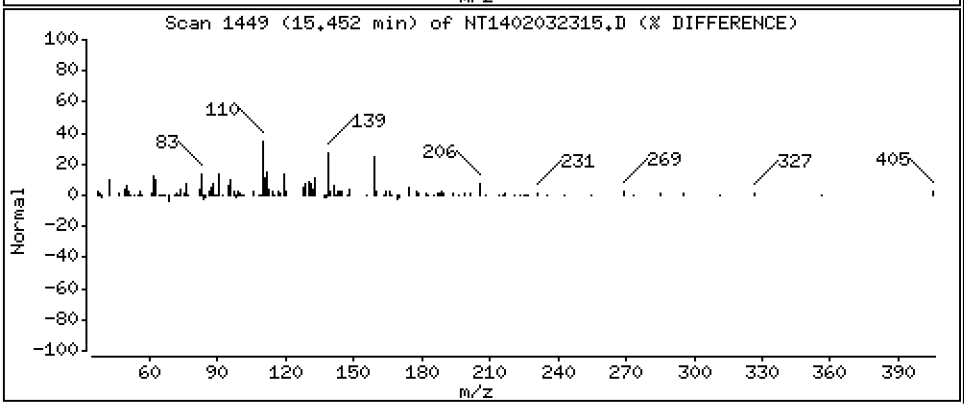












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

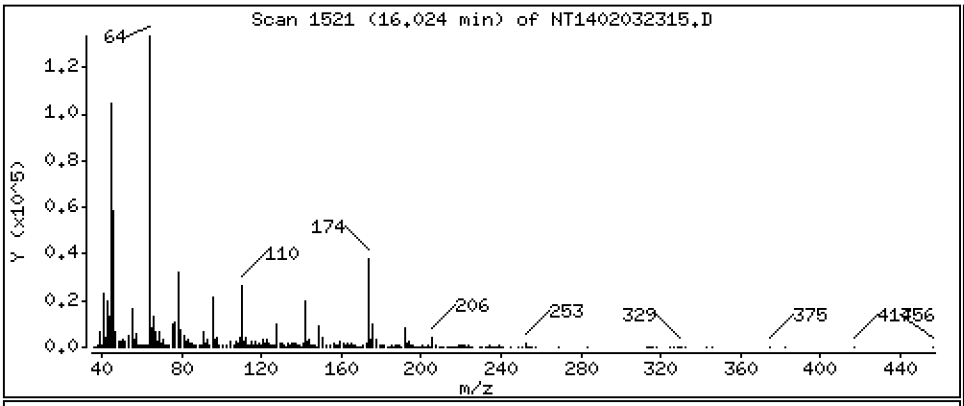
Operator: DSD

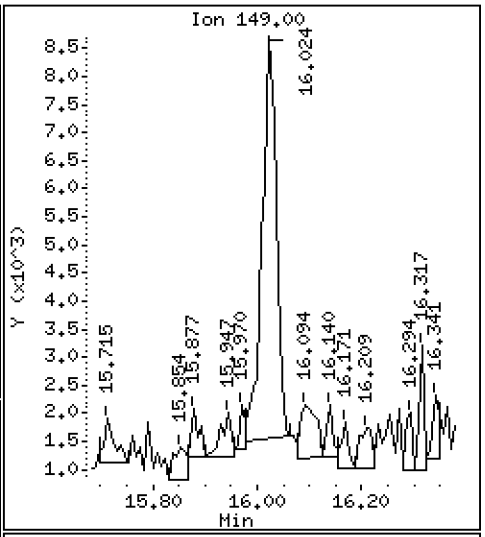
Column phase: ZB-5msi

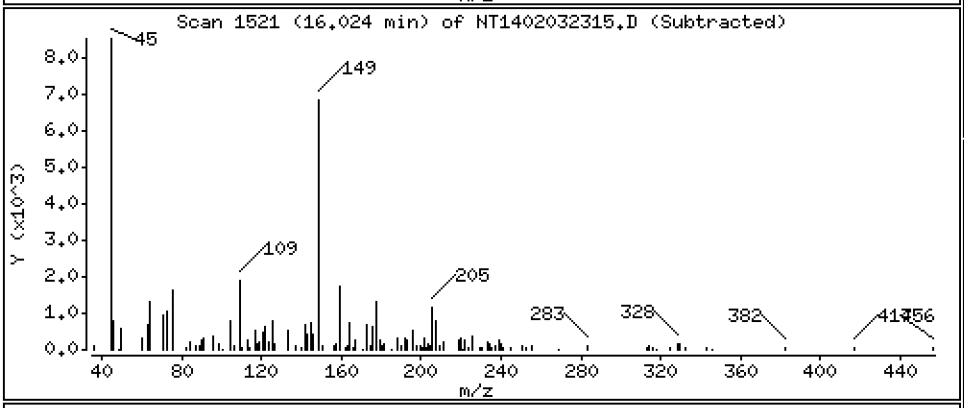
Column diameter: 0.25

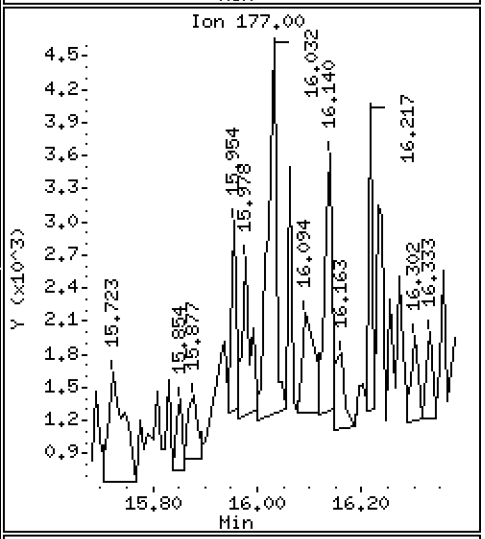
50 Diethylphthalate

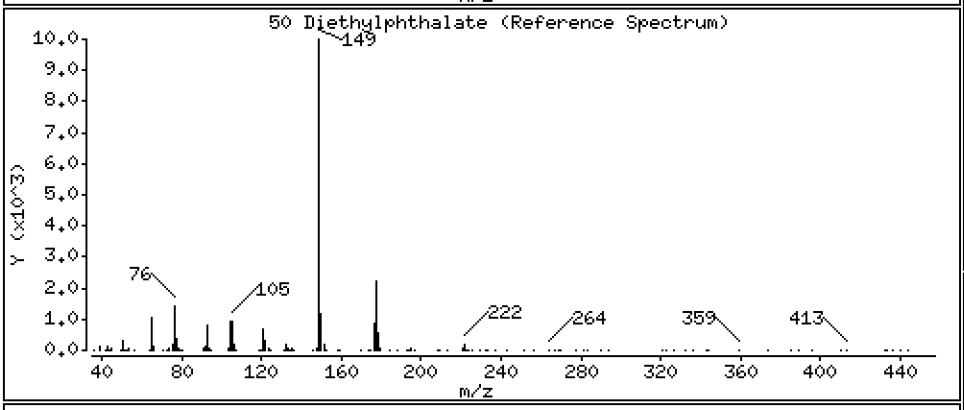
Concentration: 0.1601 ug/mL

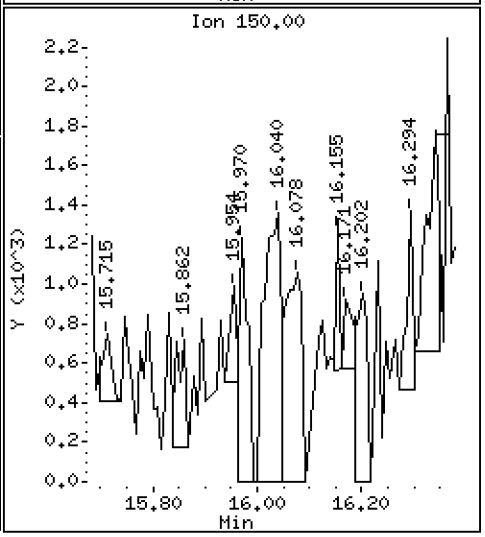


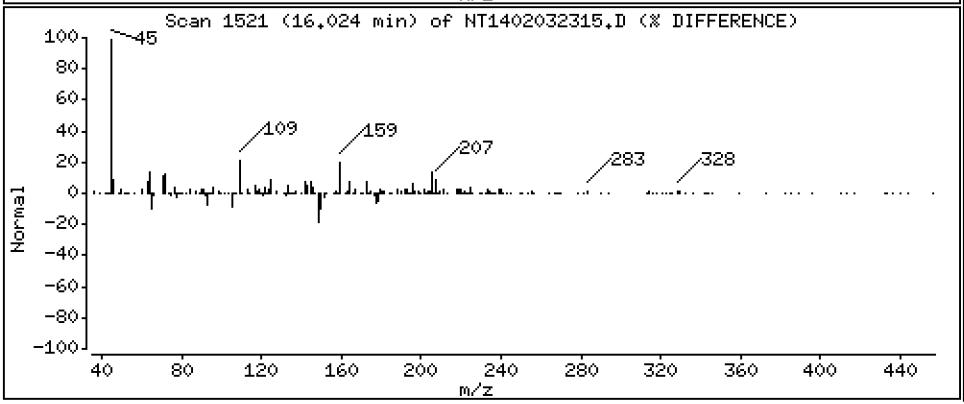












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

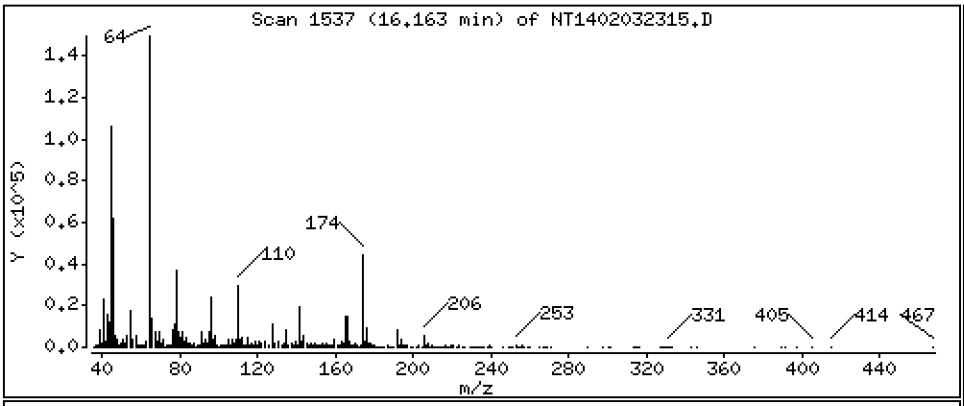
Operator: DSD

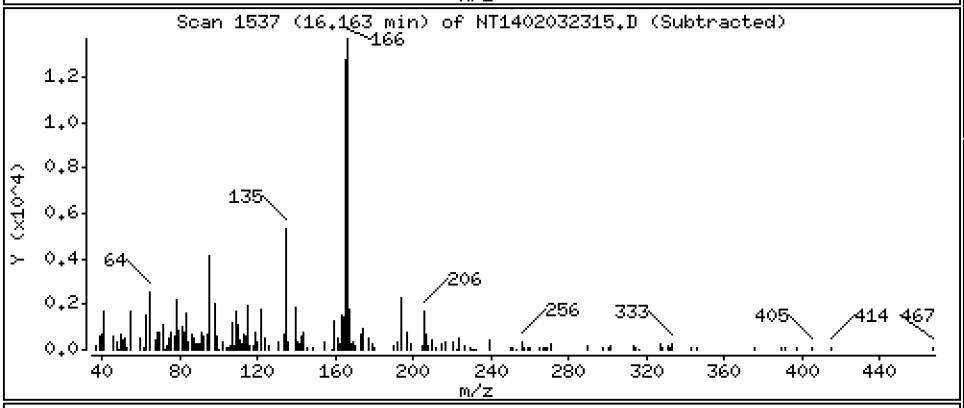
Column phase: ZB-5msi

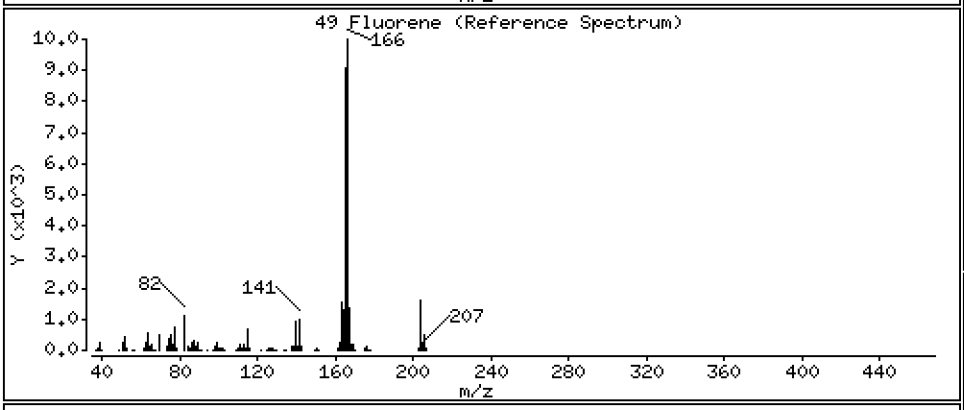
Column diameter: 0.25

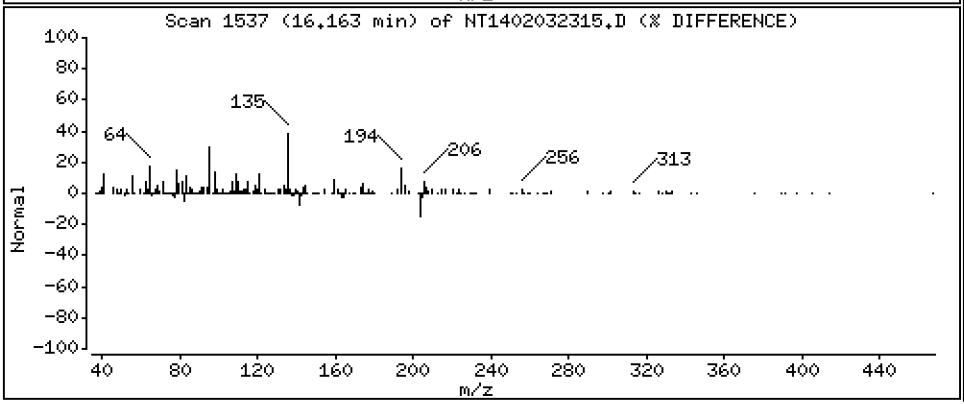
49 Fluorene

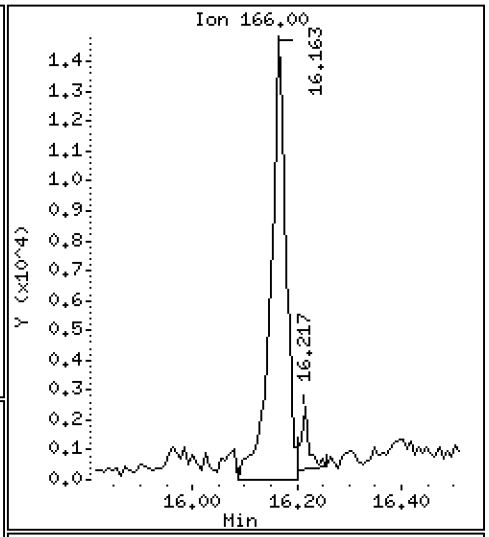
Concentration: 0.4159 ug/mL

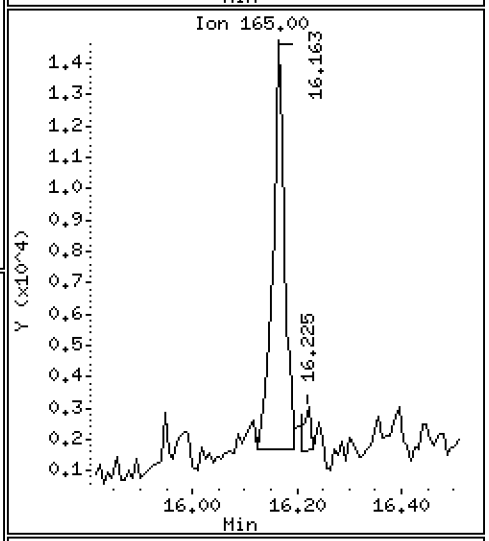


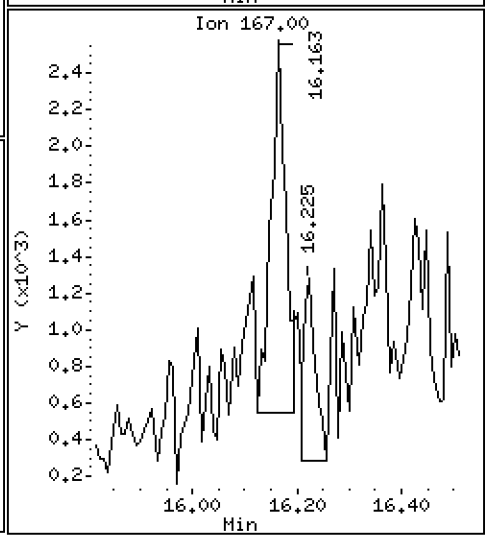












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

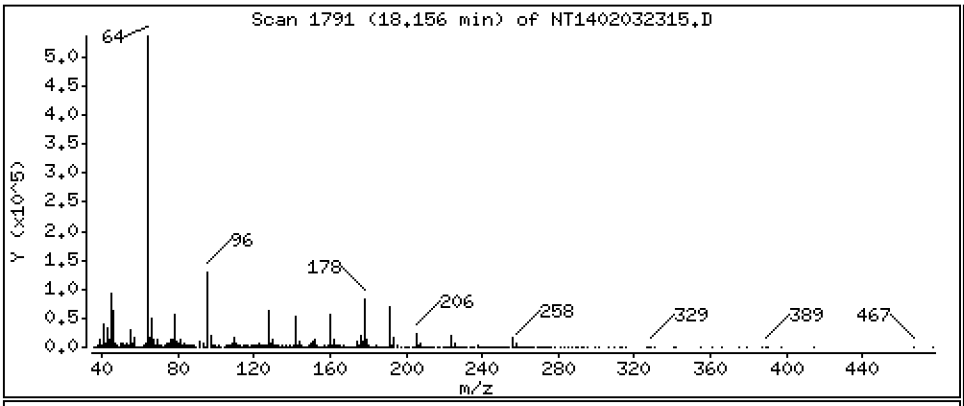
Operator: DSD

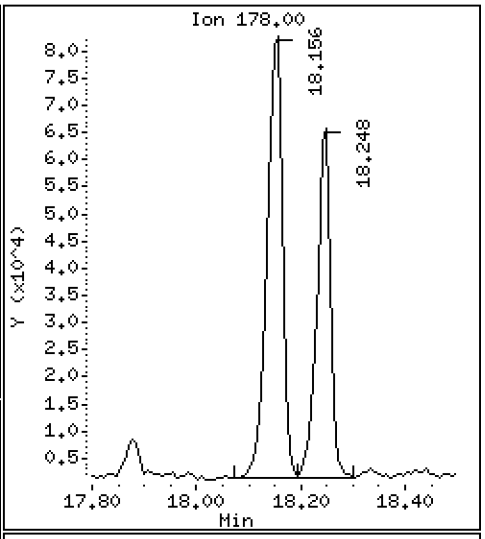
Column phase: ZB-5msi

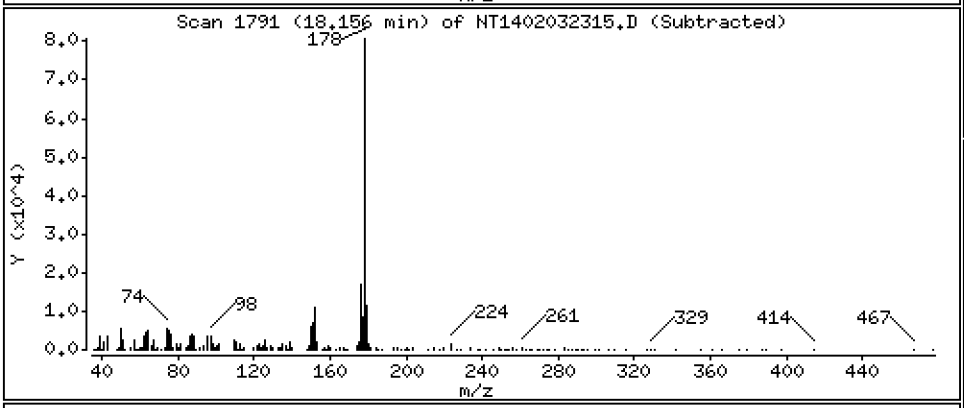
Column diameter: 0.25

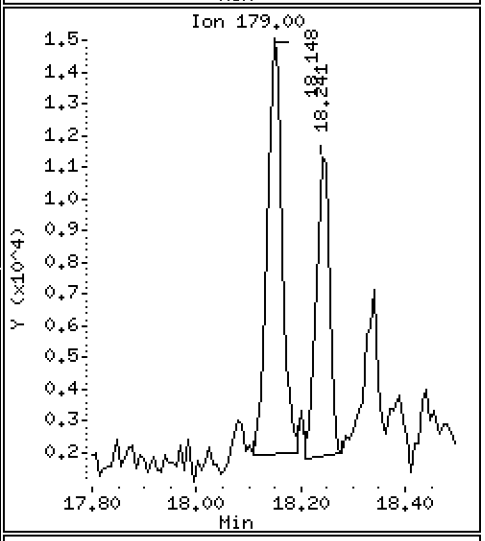
60 Phenanthrene

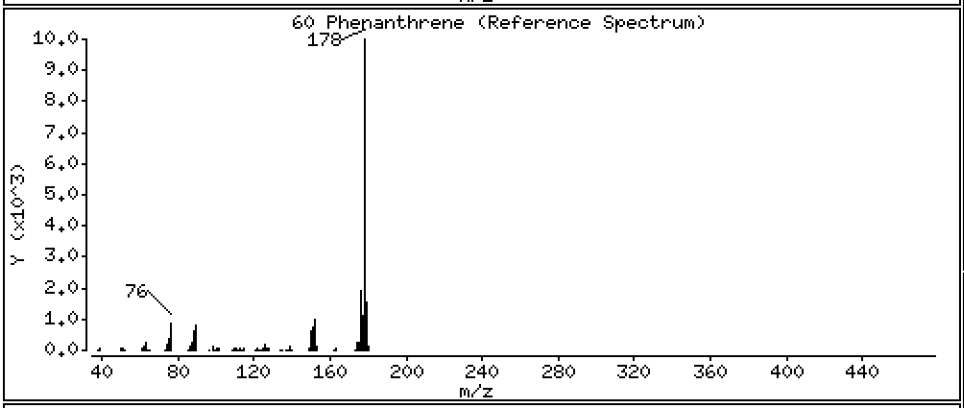
Concentration: 2.062 ug/mL

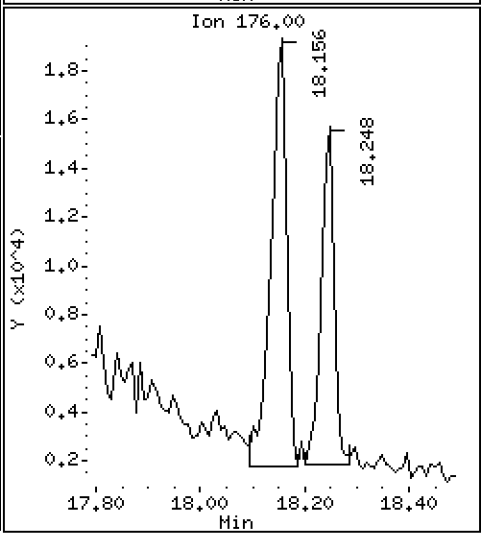


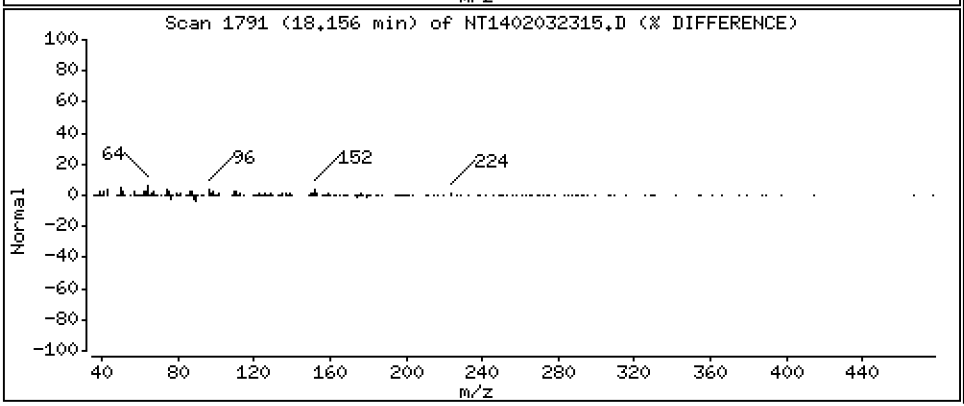












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

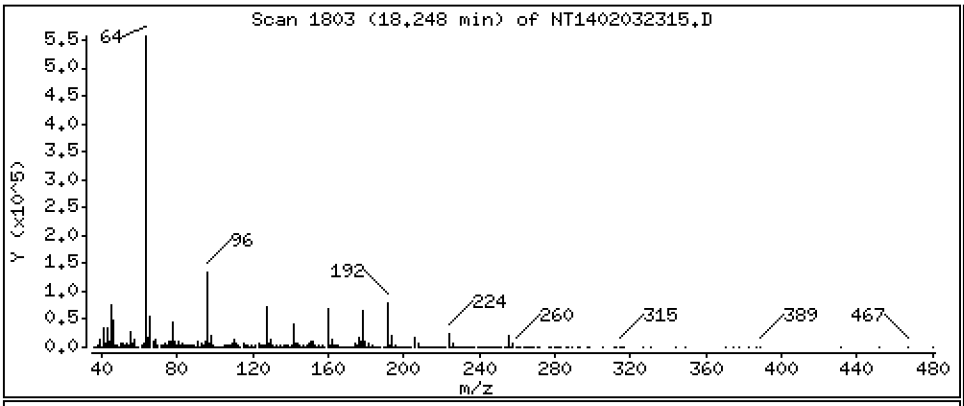
Operator: DSD

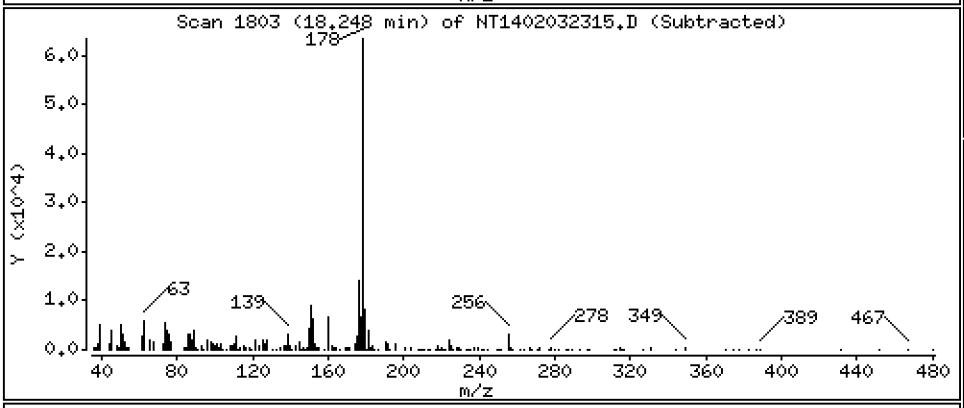
Column phase: ZB-5msi

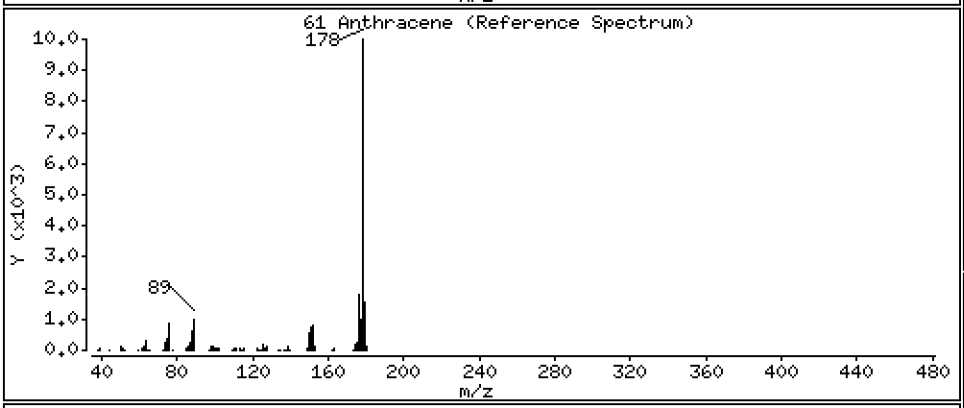
Column diameter: 0.25

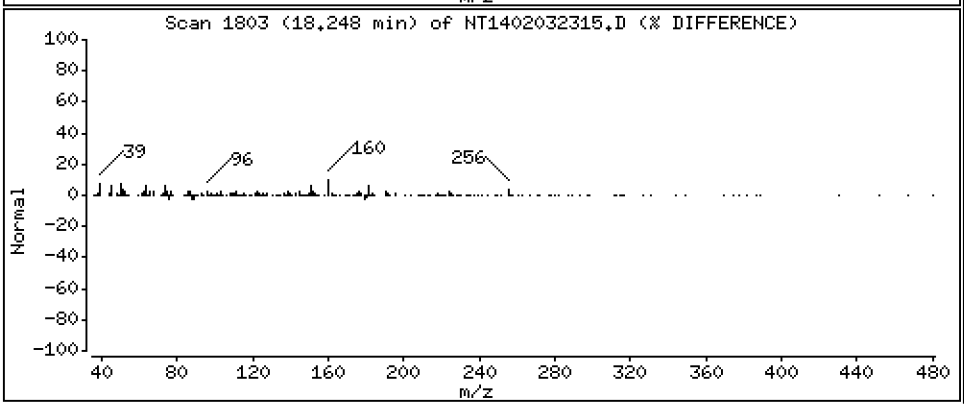
61 Anthracene

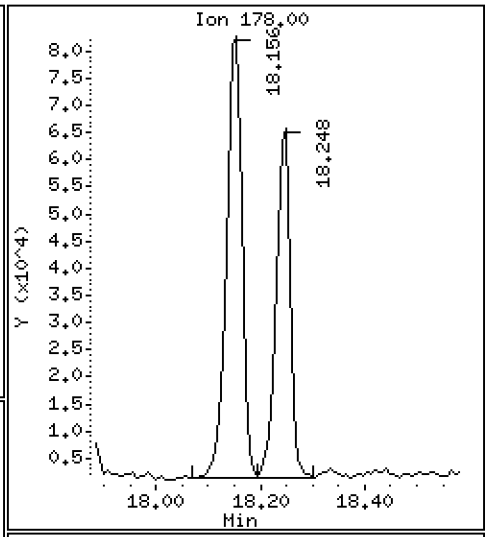
Concentration: 1.544 ug/mL

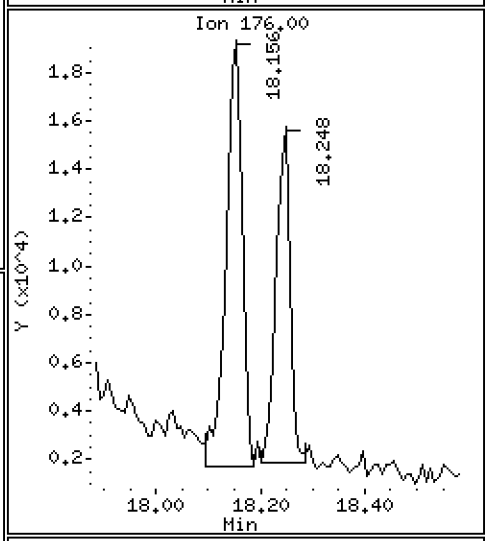


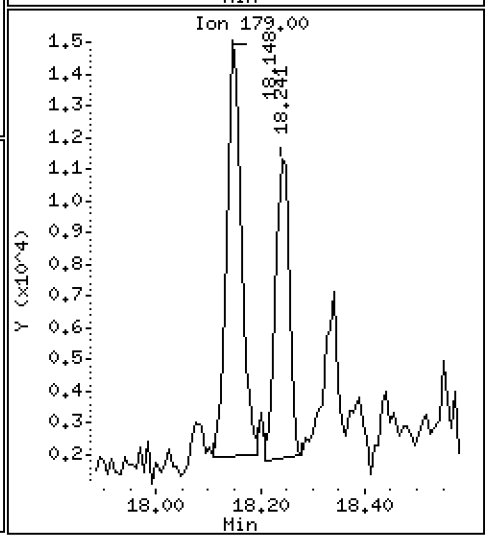












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032315.D

Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

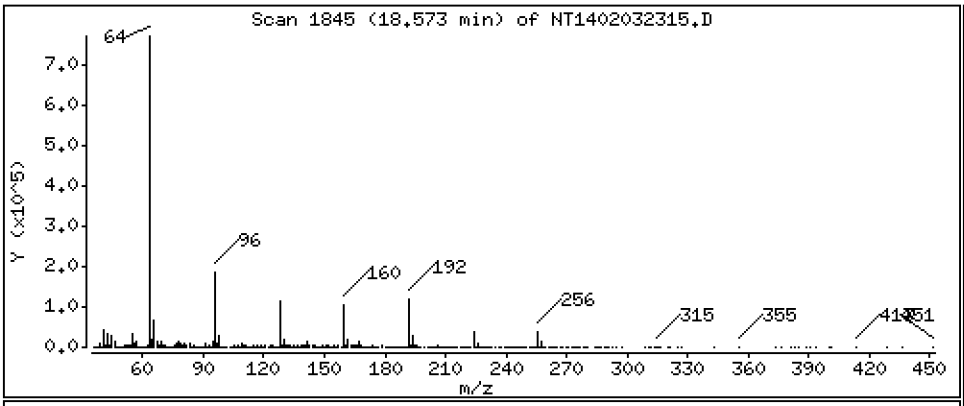
Operator: DSD

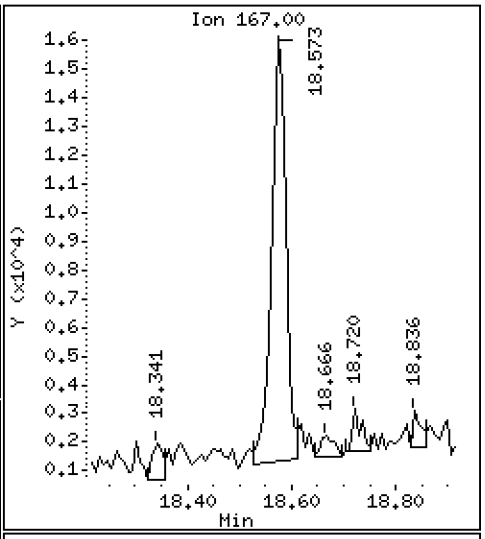
Column phase: ZB-5msi

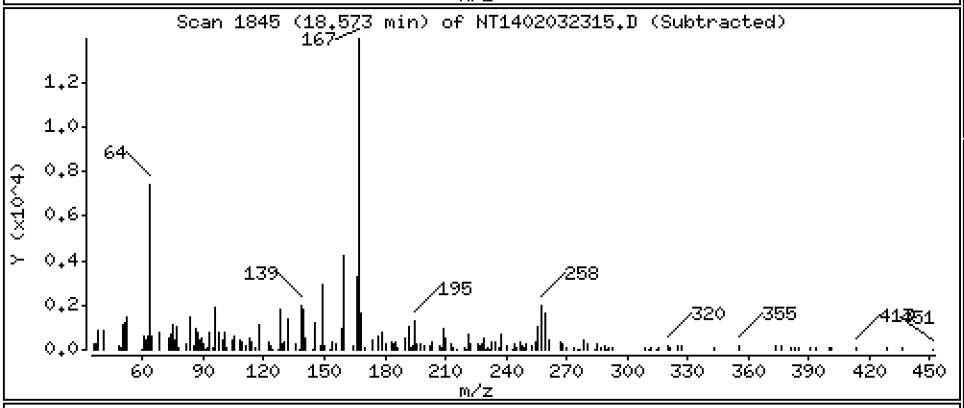
Column diameter: 0.25

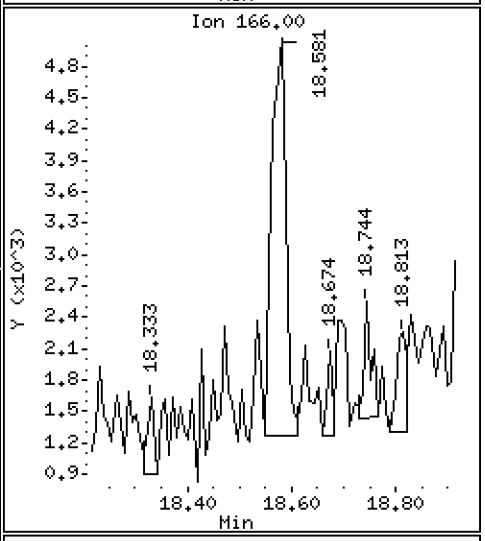
62 Carbazole

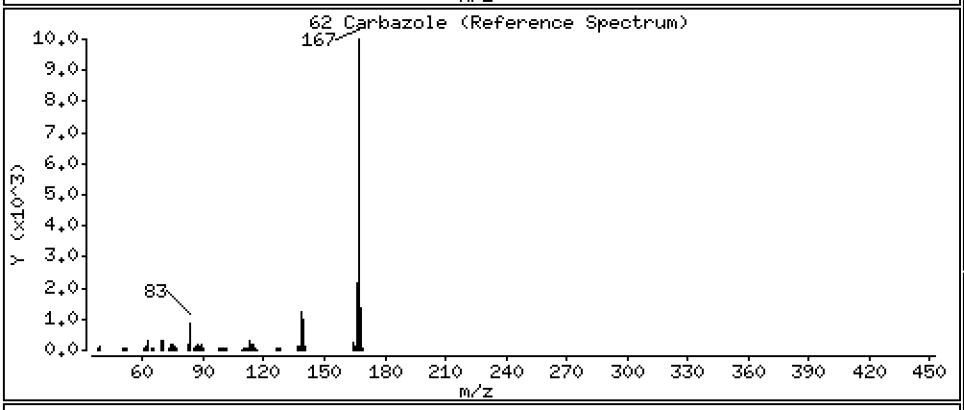
Concentration: 0.3952 ug/mL

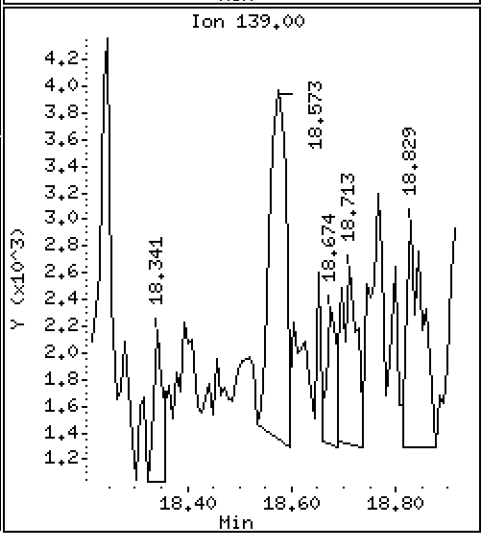


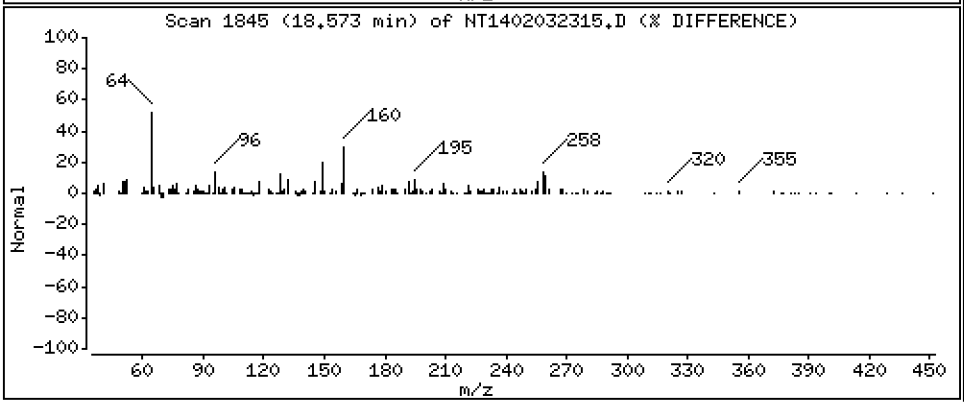












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

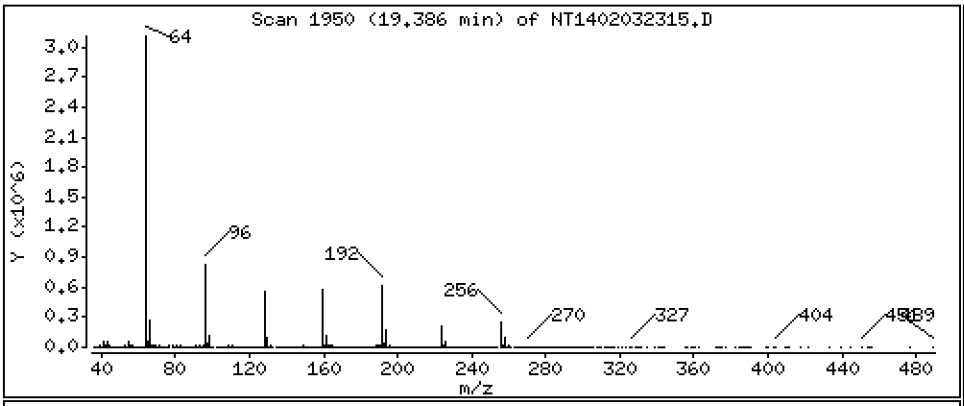
Operator: DSD

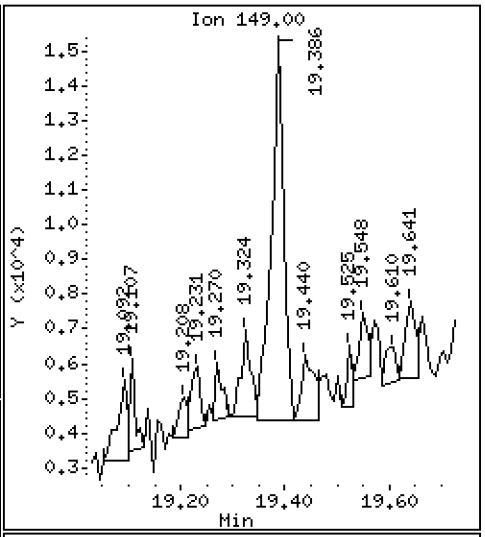
Column phase: ZB-5msi

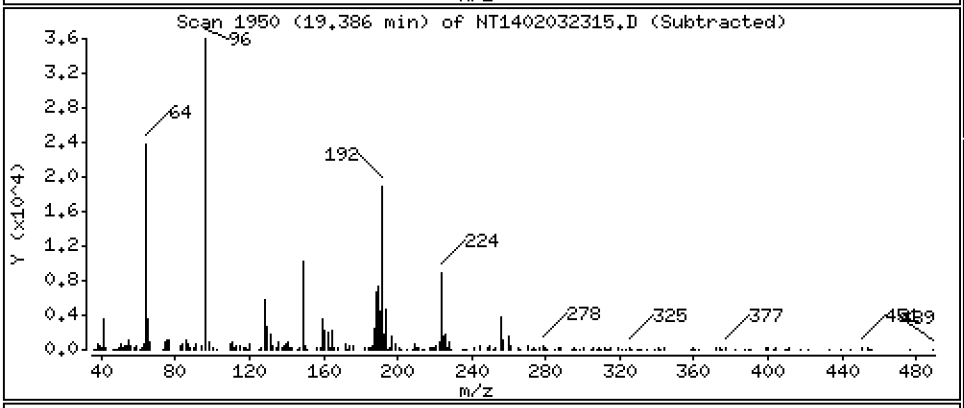
Column diameter: 0.25

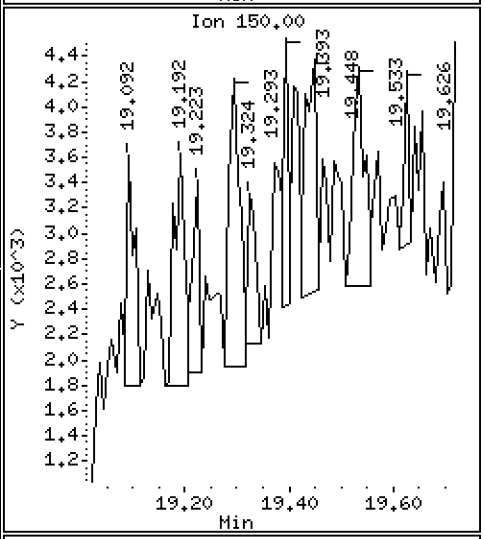
63 Di-n-butylphthalate

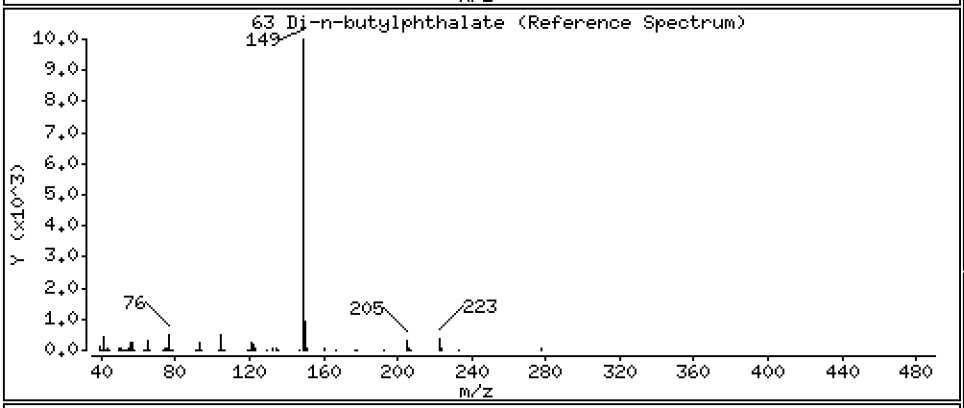
Concentration: 0.1674 ug/mL

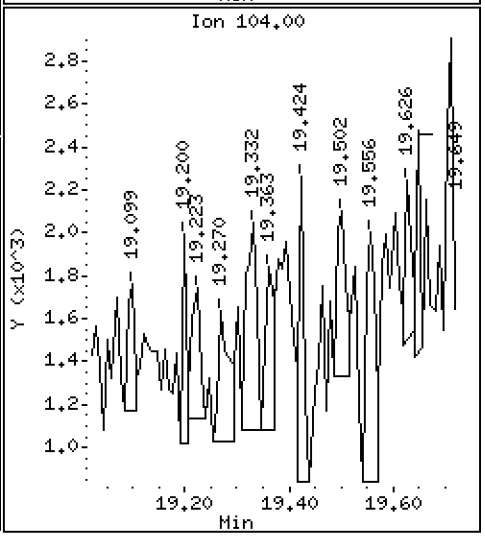


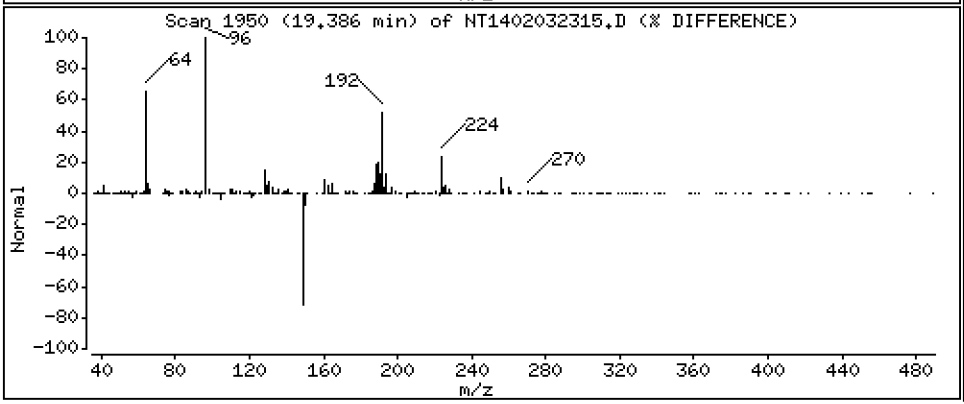












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

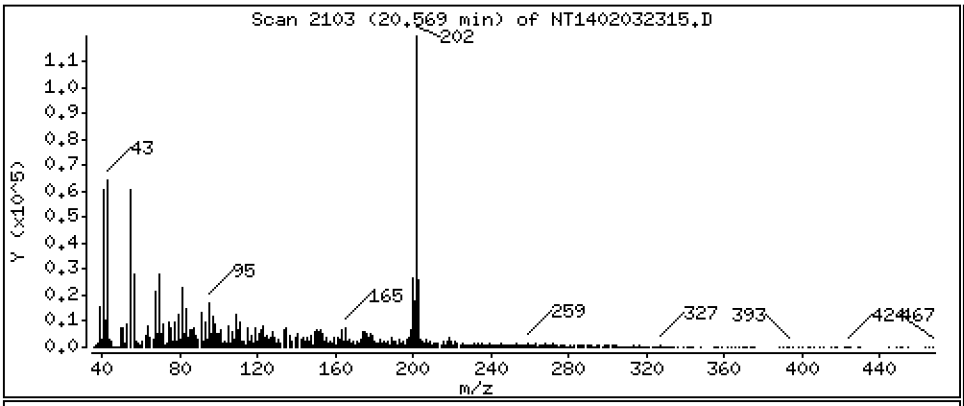
Operator: DSD

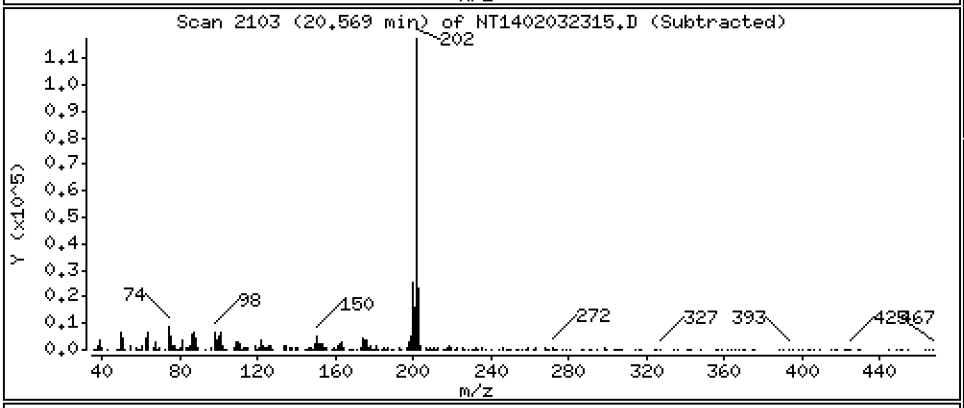
Column phase: ZB-5msi

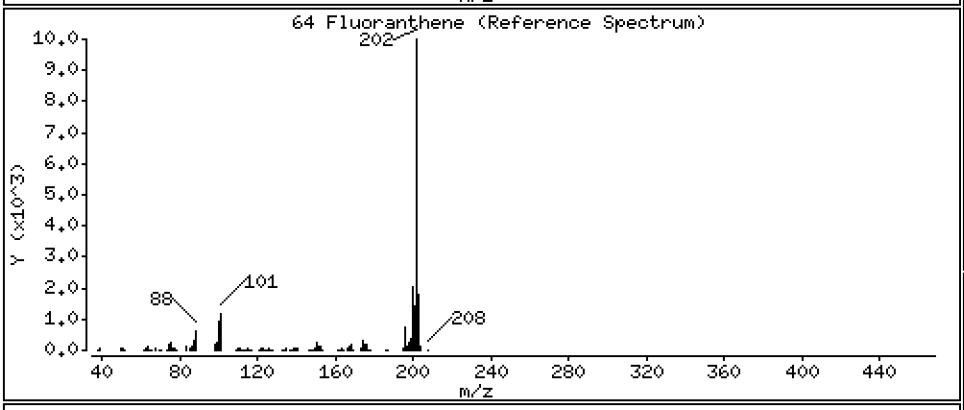
Column diameter: 0.25

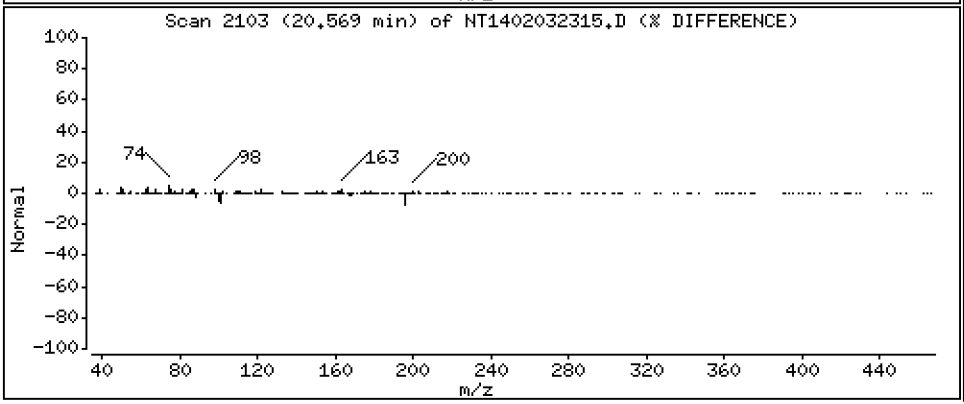
64 Fluoranthene

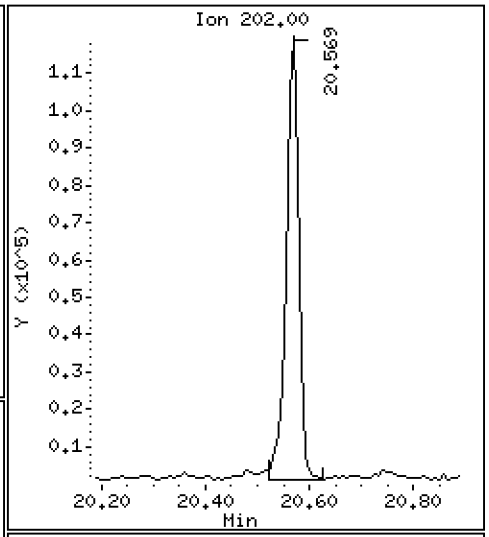
Concentration: 4.052 ug/mL

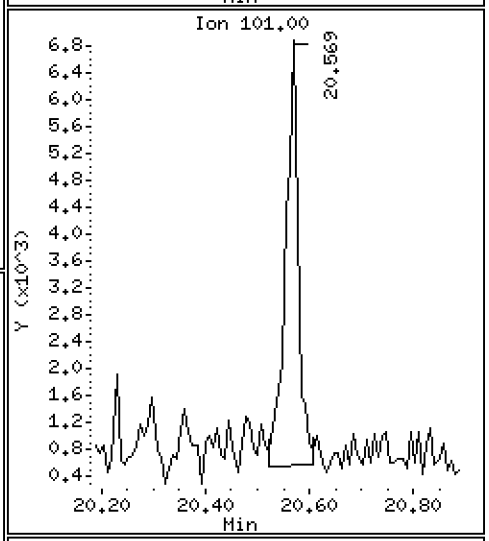


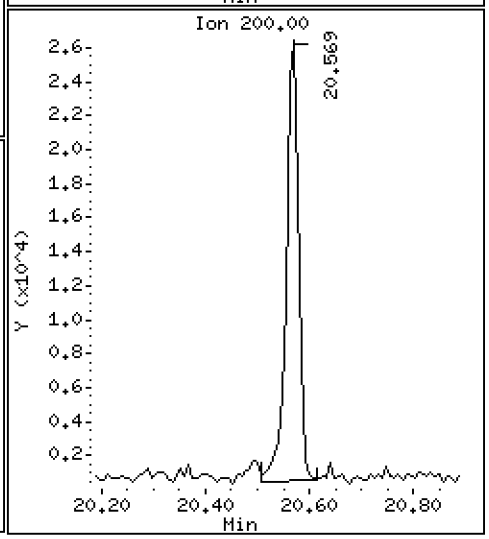












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

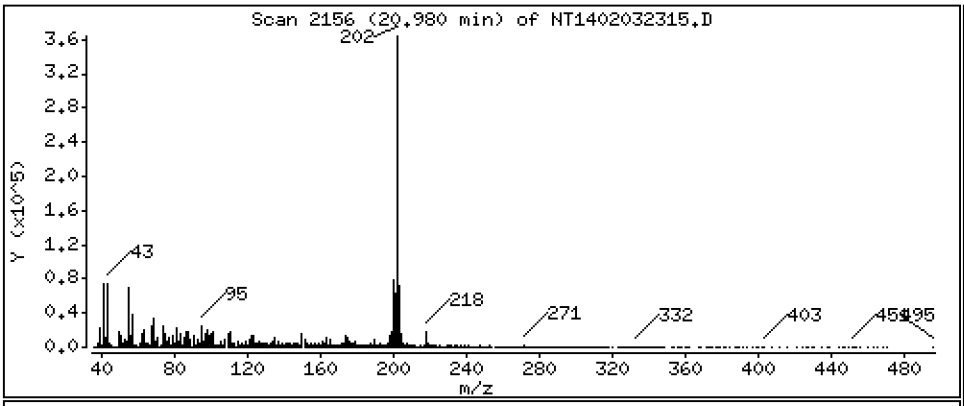
Operator: DSD

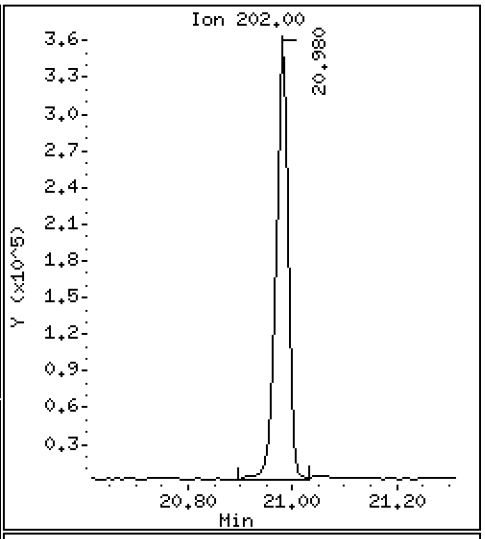
Column phase: ZB-5msi

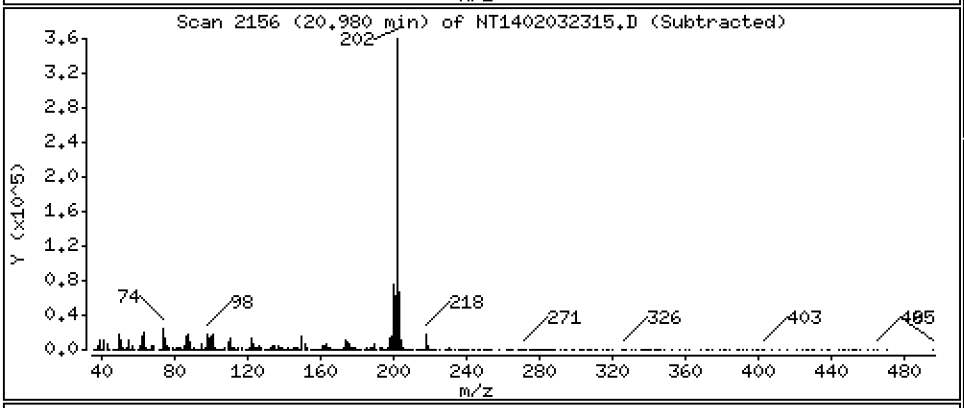
Column diameter: 0.25

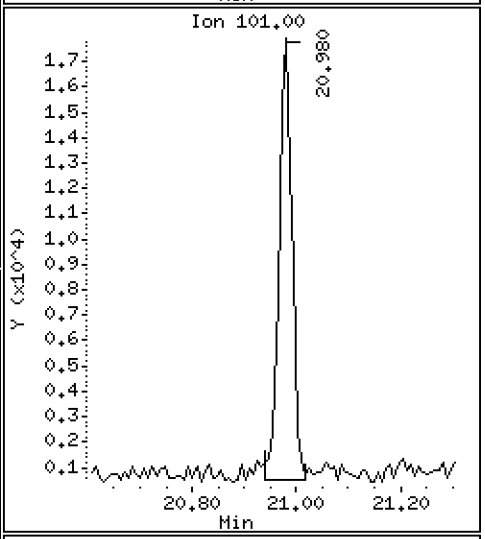
65 Pyrene

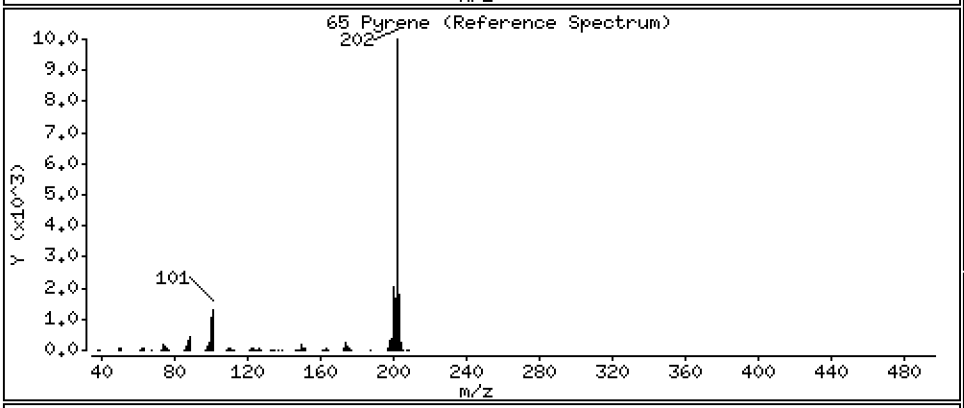
Concentration: 10.20 ug/mL

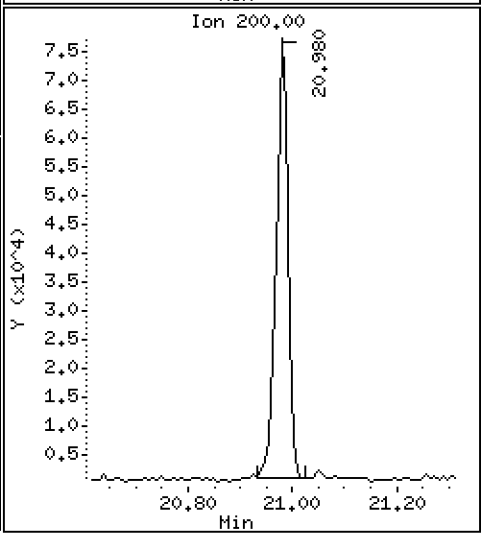


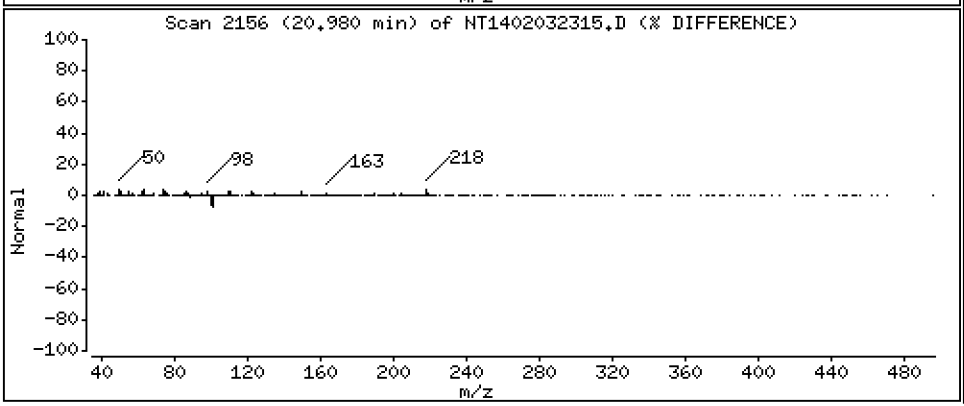












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

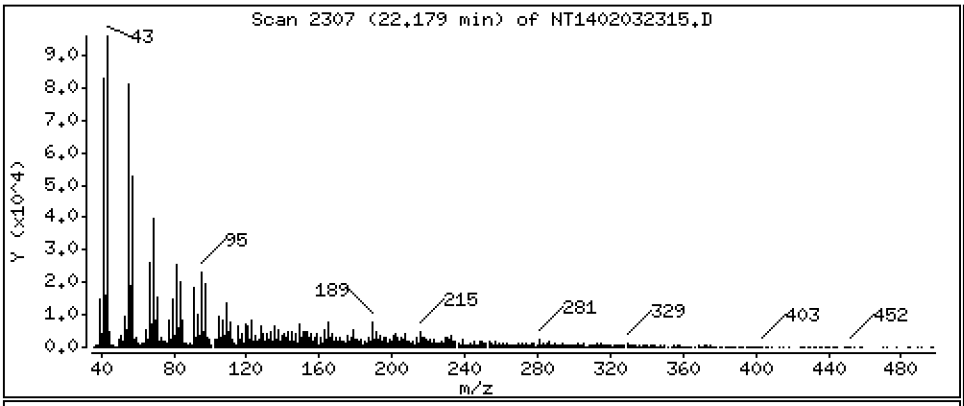
Operator: DSD

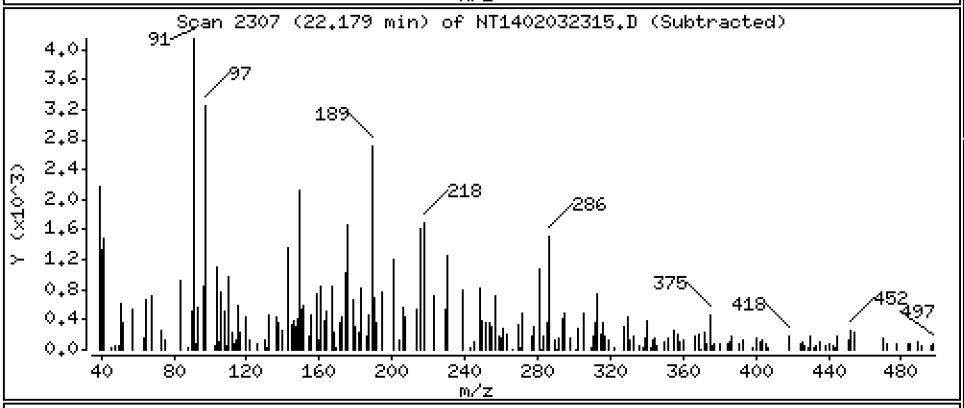
Column phase: ZB-5msi

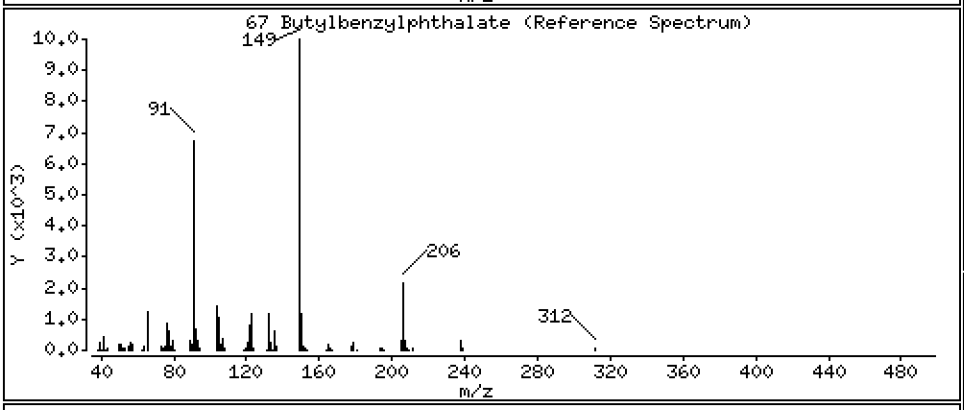
Column diameter: 0.25

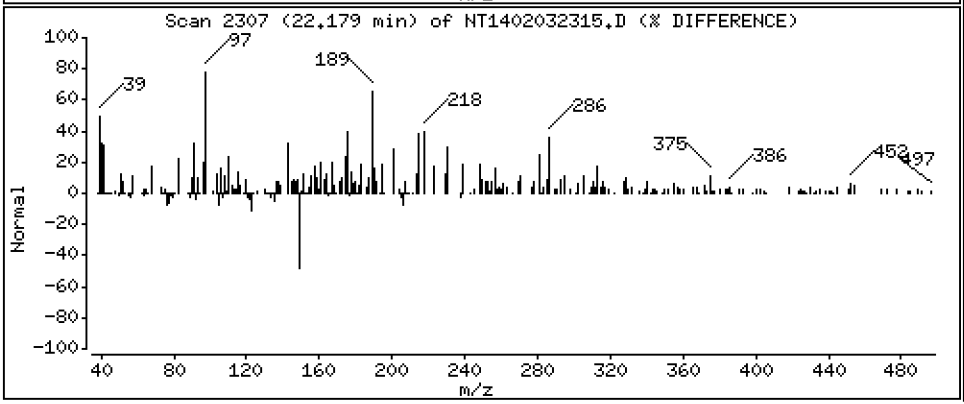
67 Butylbenzylphthalate

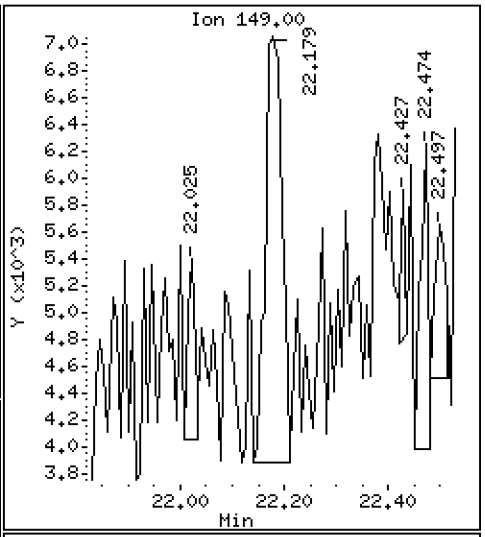
Concentration: 0.2552 ug/mL

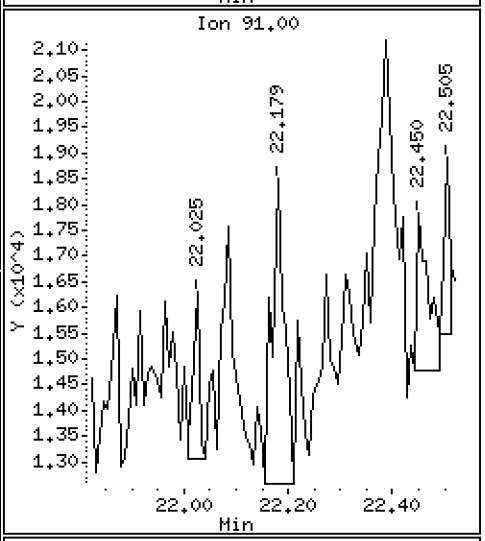


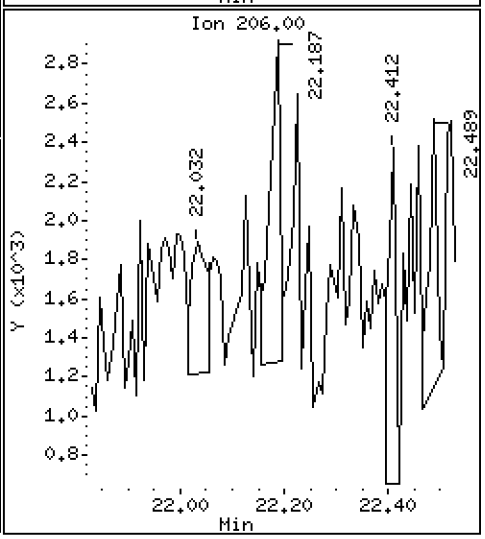












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

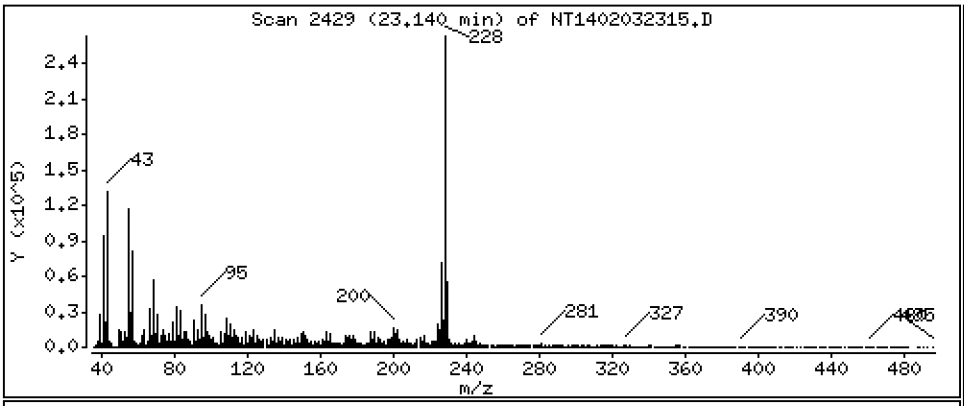
Operator: DSD

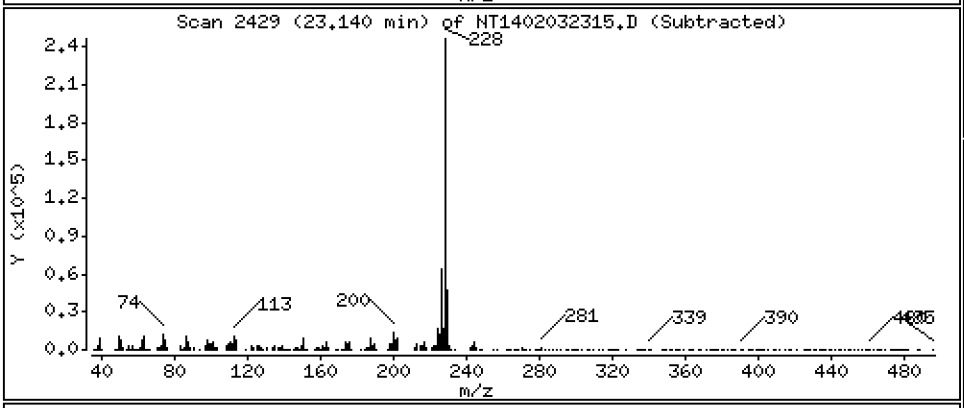
Column phase: ZB-5msi

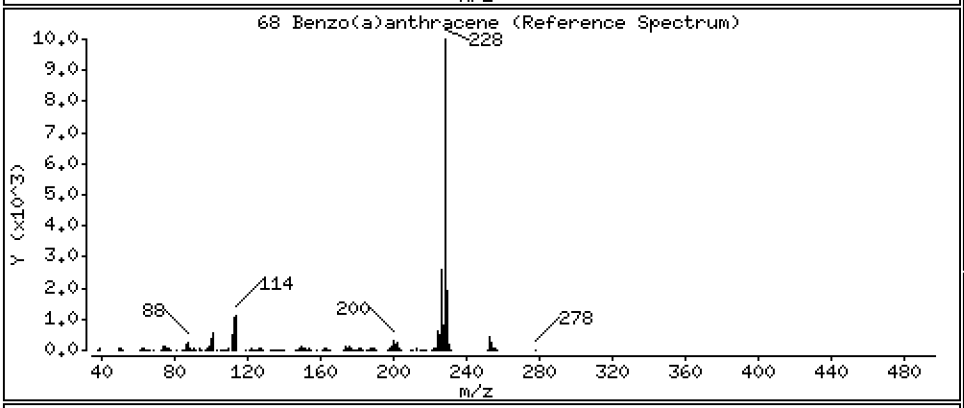
Column diameter: 0.25

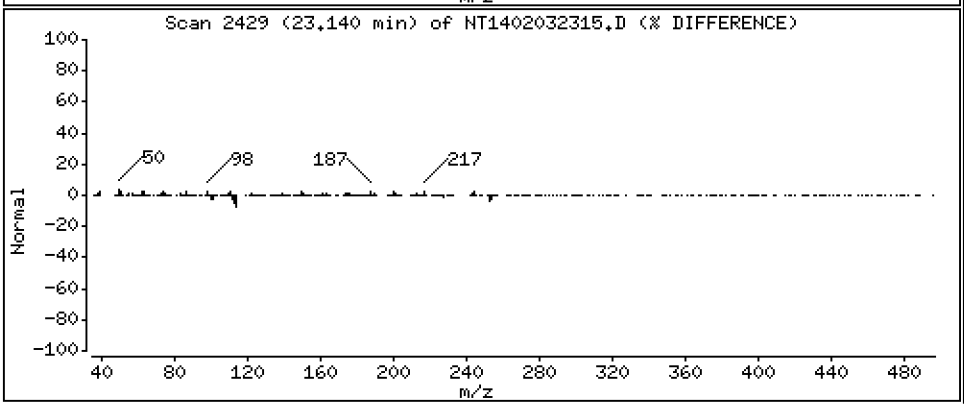
68 Benzo(a)anthracene

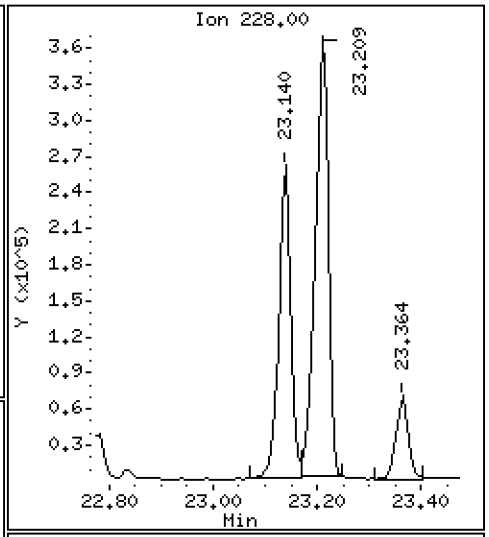
Concentration: 8.873 ug/mL

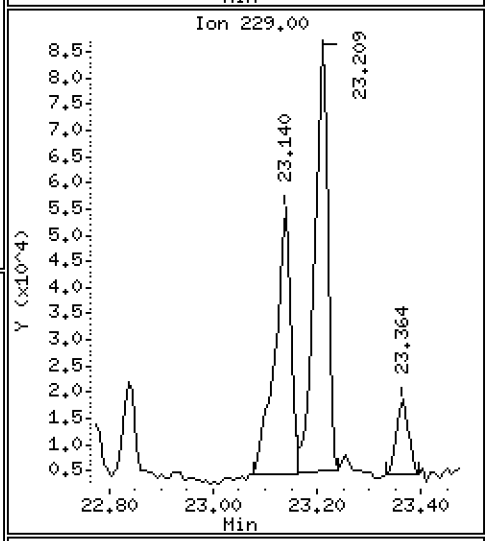


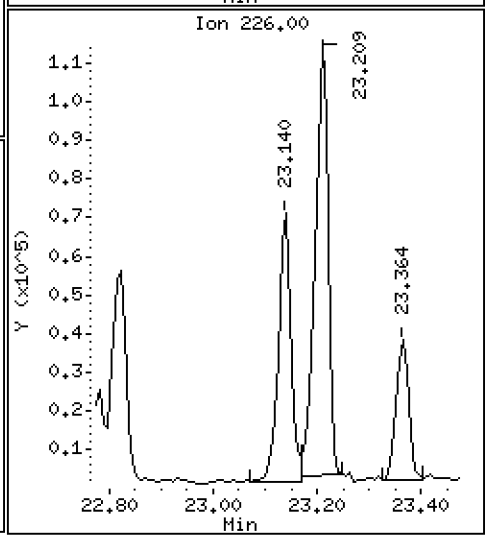












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

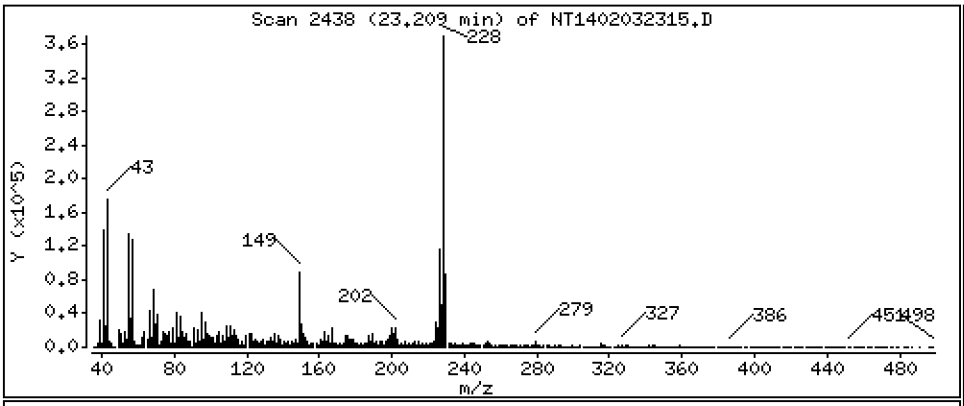
Operator: DSD

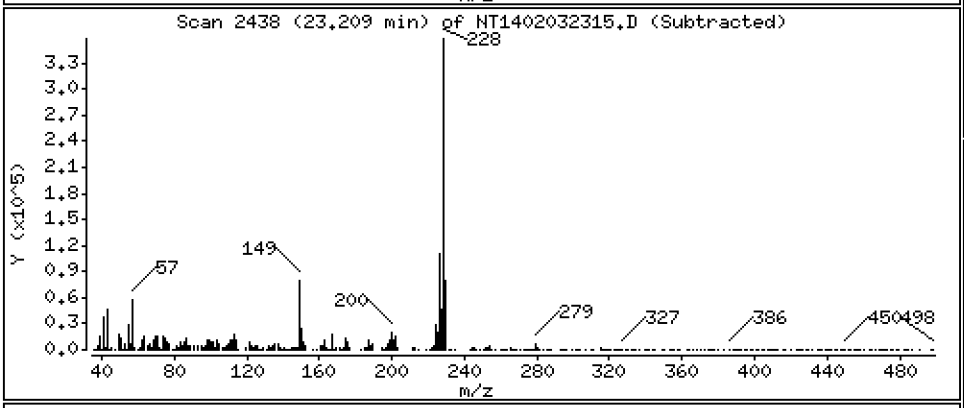
Column phase: ZB-5msi

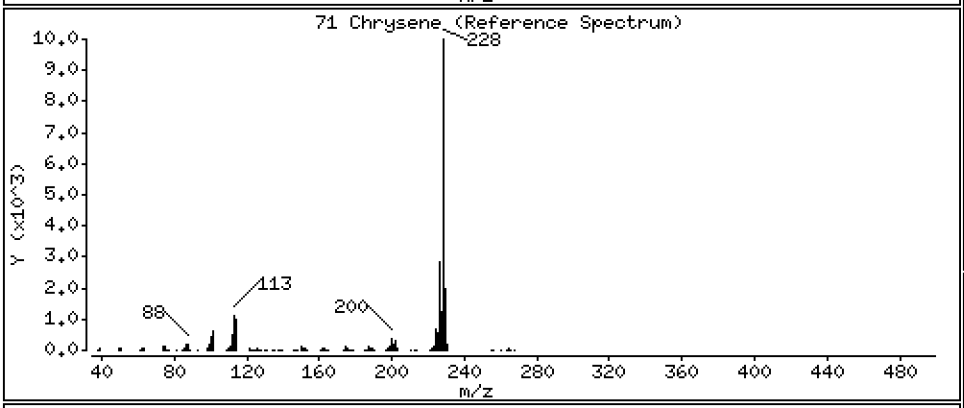
Column diameter: 0.25

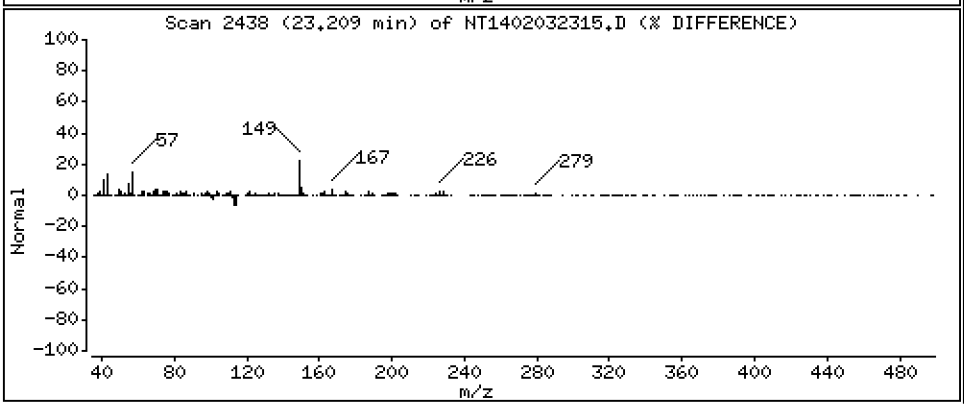
71 Chrysene

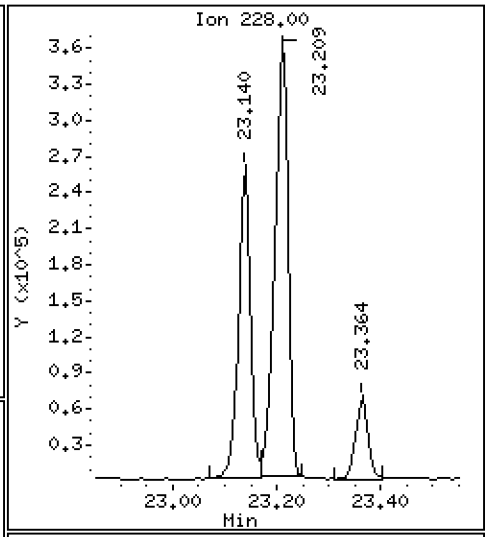
Concentration: 11.61 ug/mL

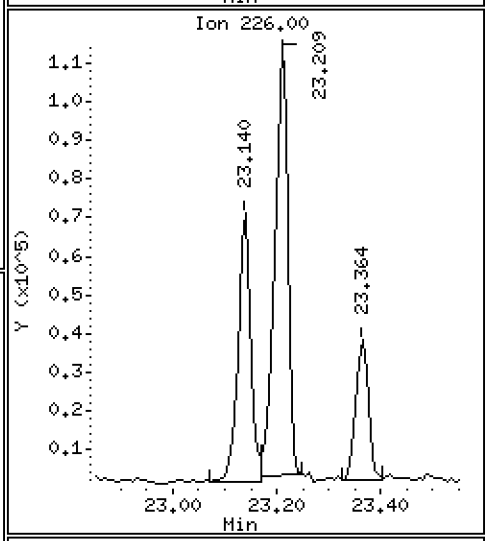


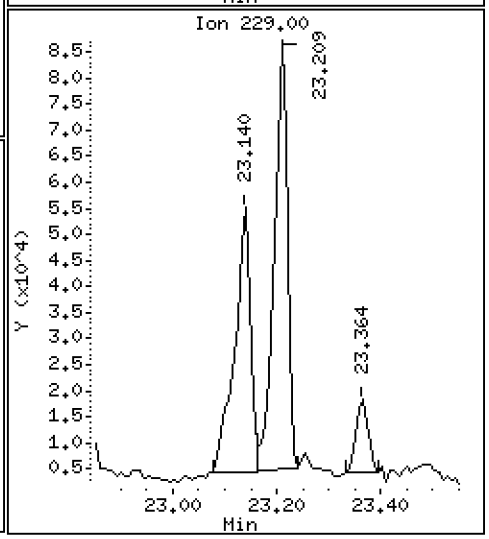












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032315.D

Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

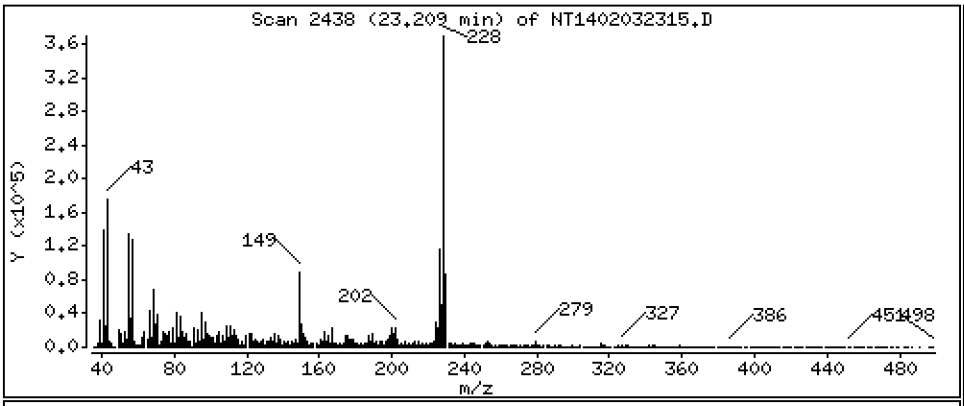
Operator: DSD

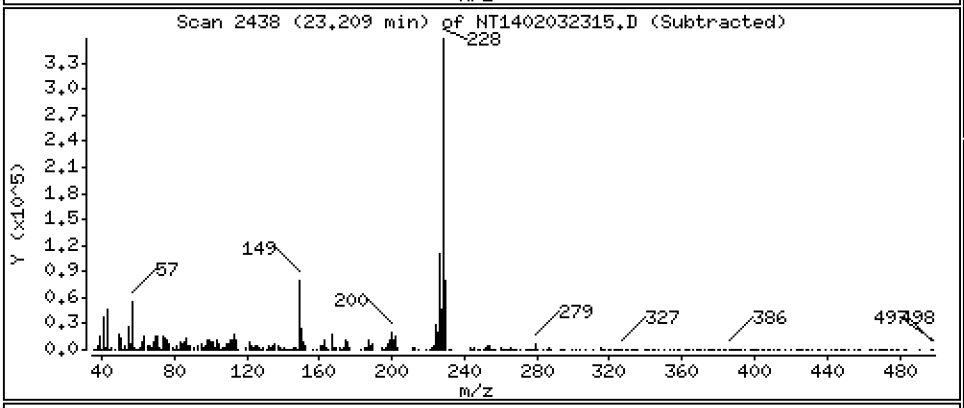
Column phase: ZB-5msi

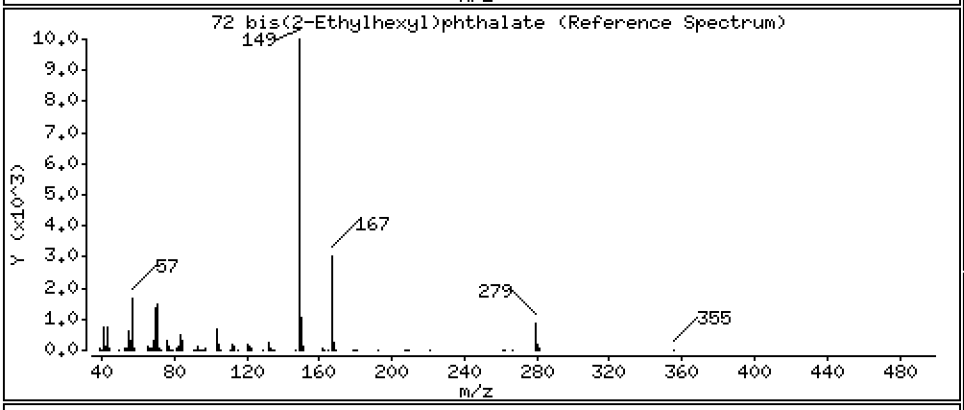
Column diameter: 0.25

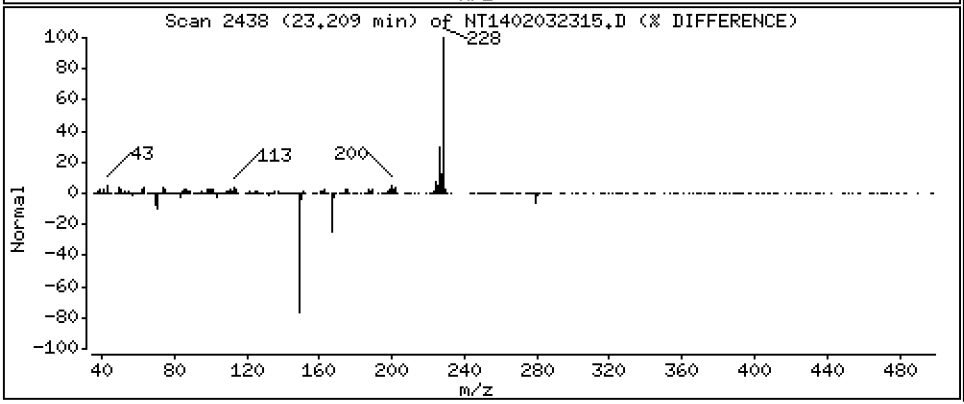
72 bis(2-Ethylhexyl)phthalate

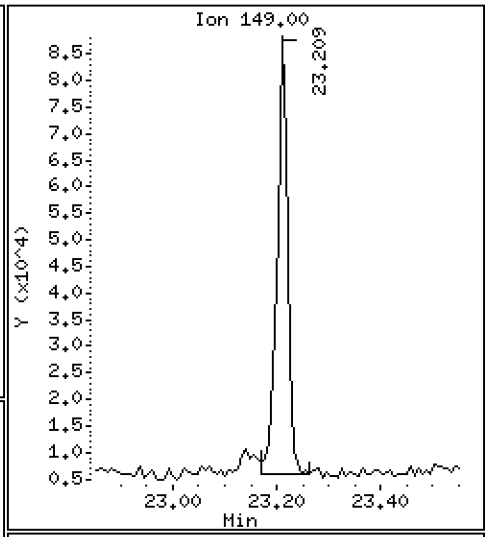
Concentration: 3.378 ug/mL

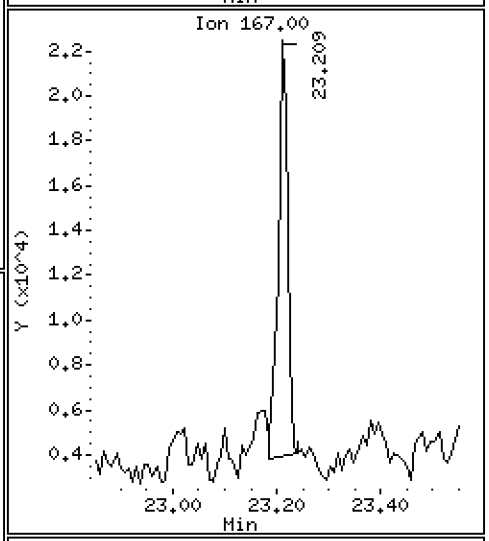


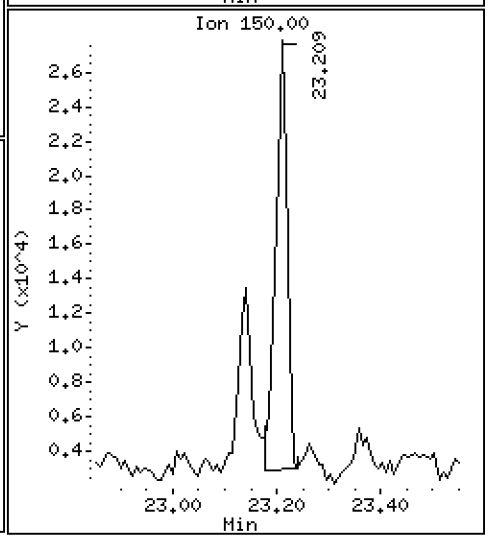












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

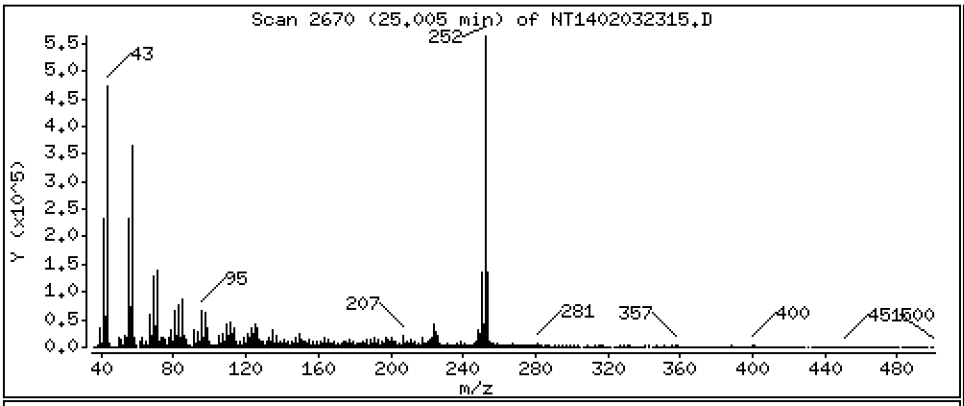
Operator: DSD

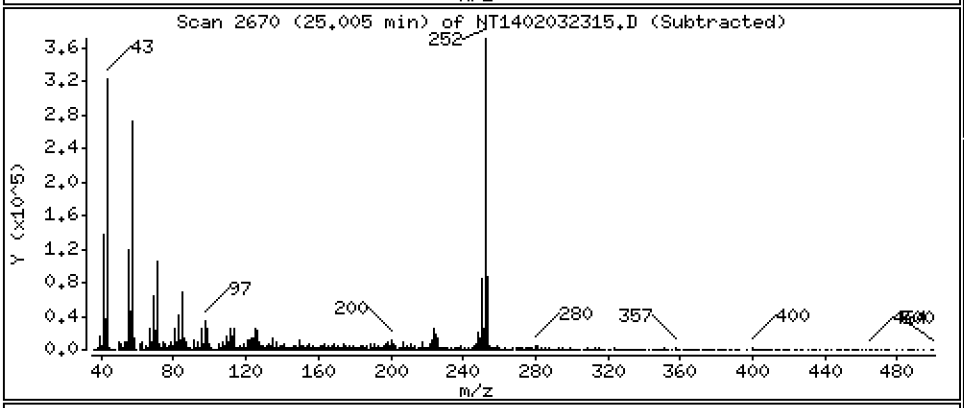
Column phase: ZB-5msi

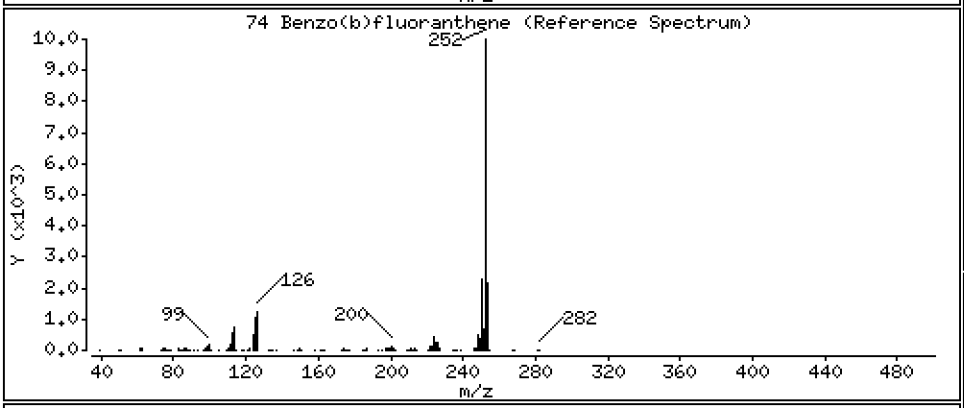
Column diameter: 0.25

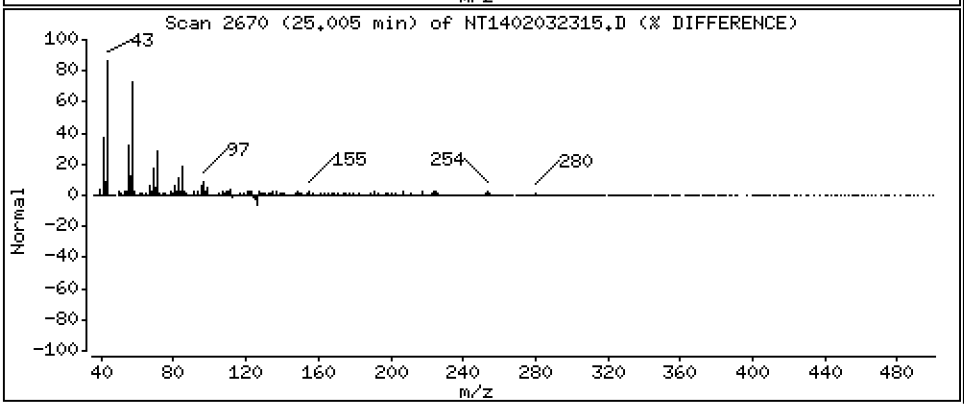
74 Benzo(b)fluoranthene

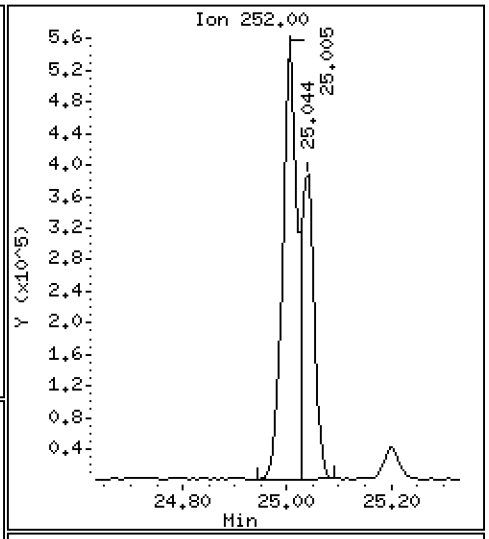
Concentration: 25.65 ug/mL

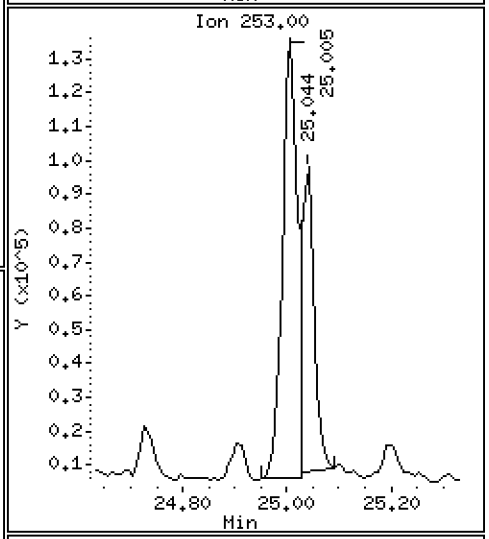


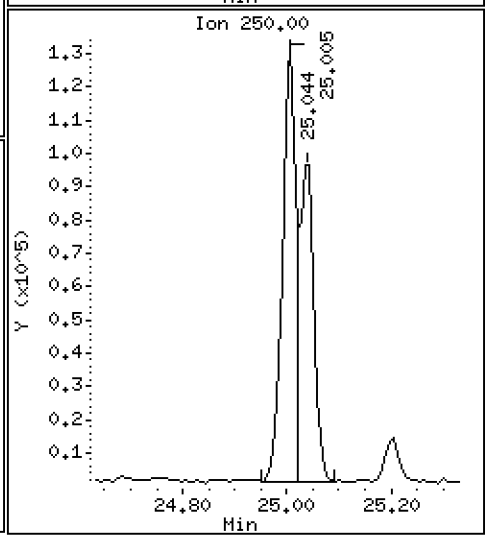












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

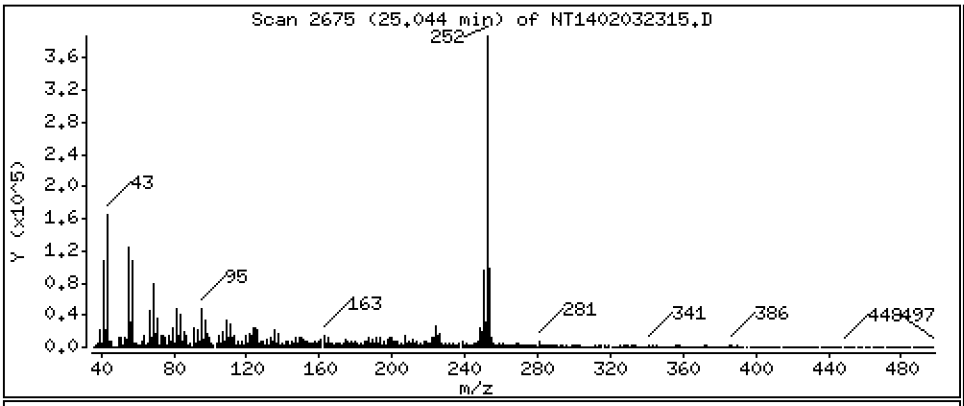
Operator: DSD

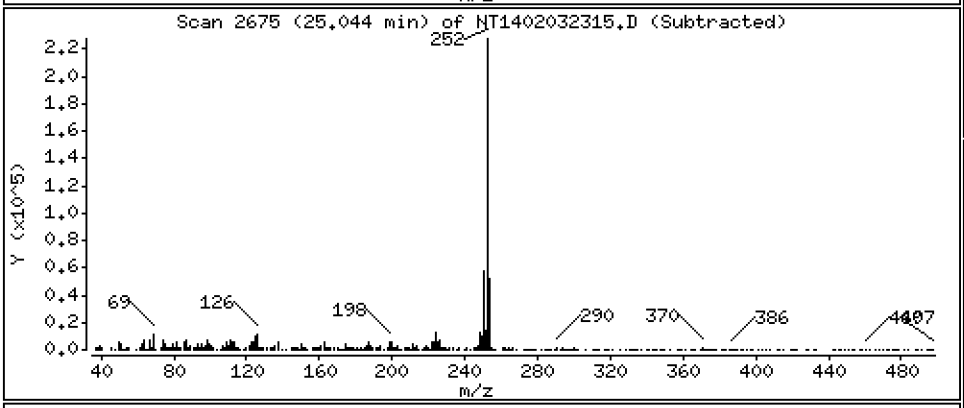
Column phase: ZB-5msi

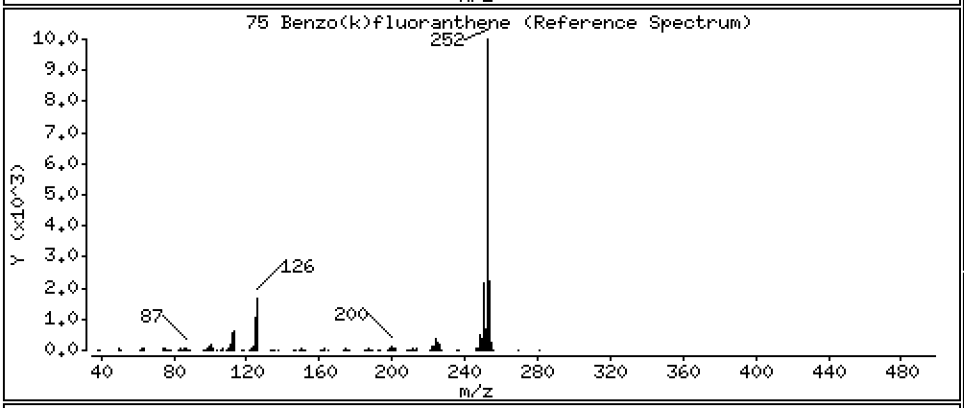
Column diameter: 0.25

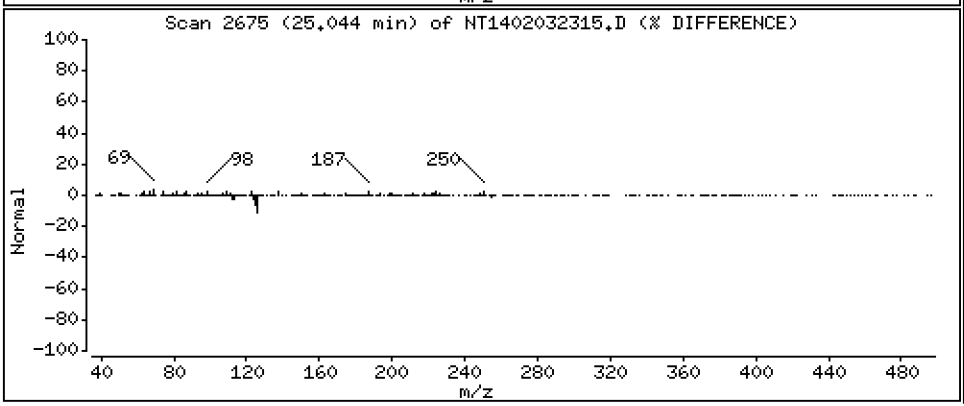
75 Benzo(k)fluoranthene

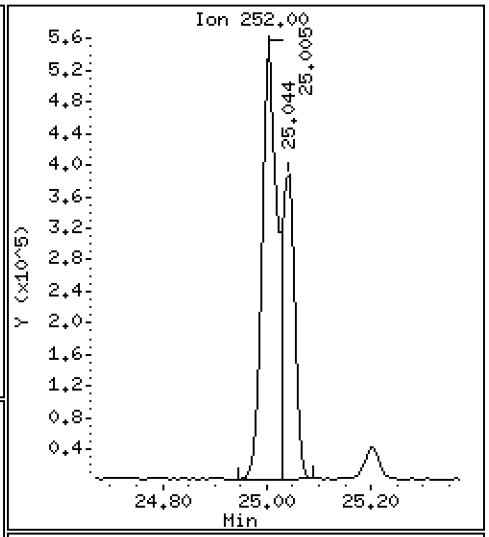
Concentration: 15.02 ug/mL

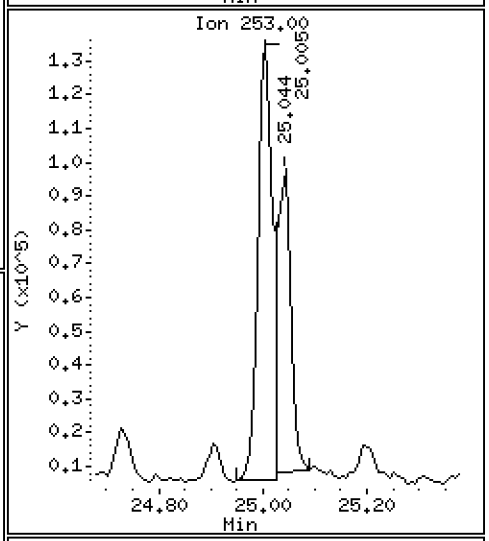


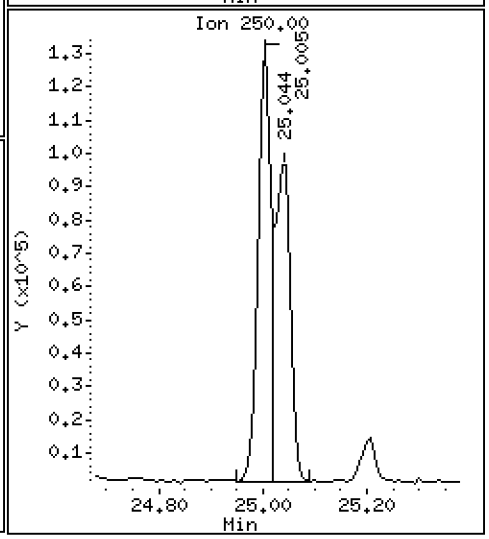












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

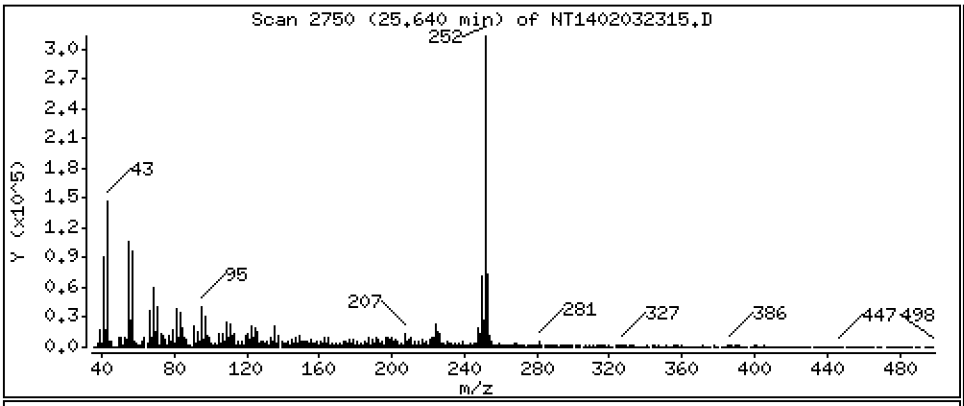
Operator: DSD

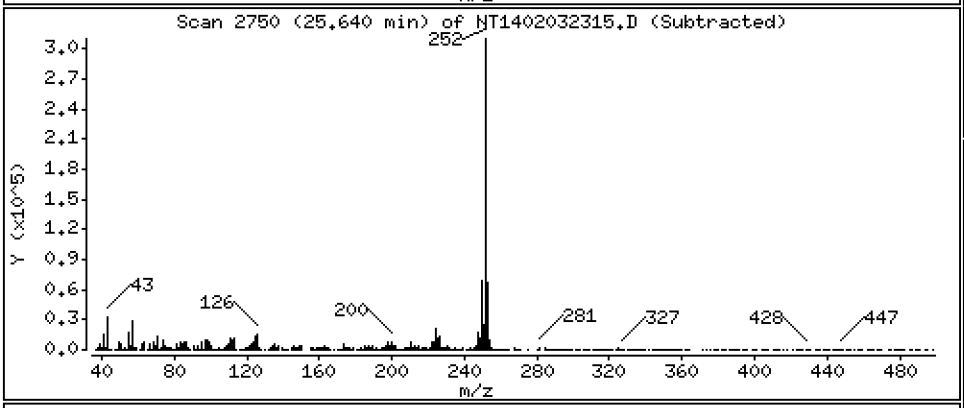
Column phase: ZB-5msi

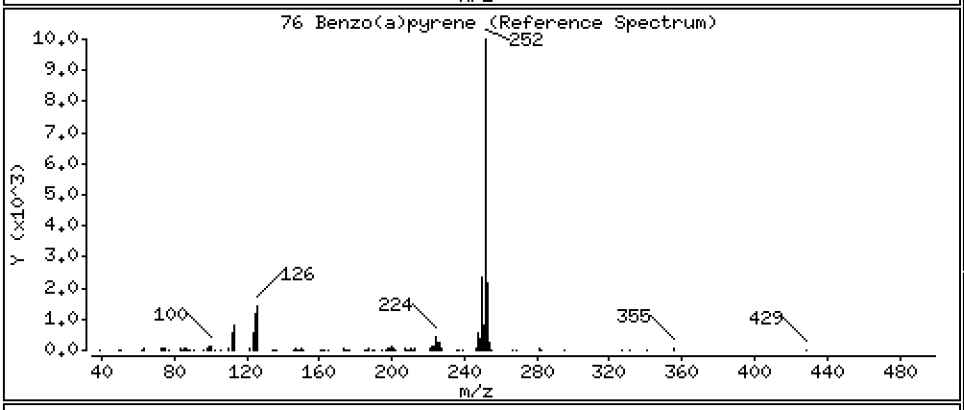
Column diameter: 0.25

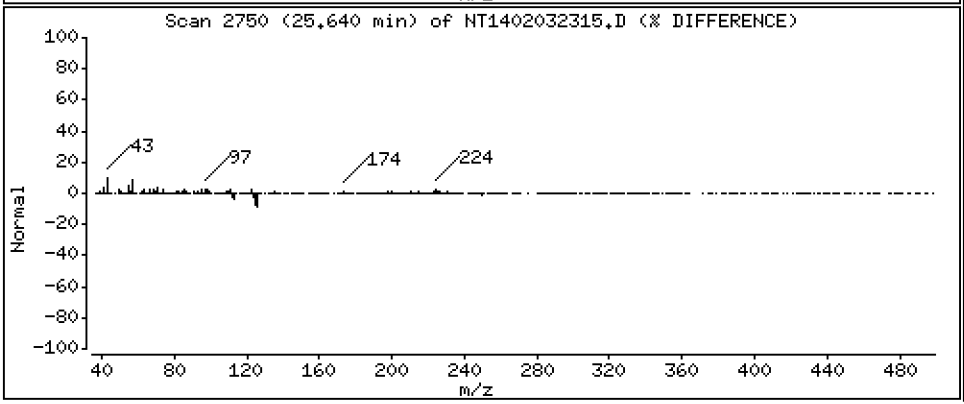
76 Benzo(a)pyrene

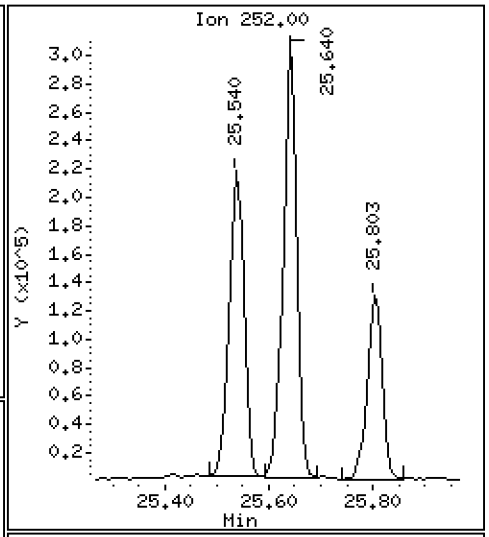
Concentration: 14.41 ug/mL

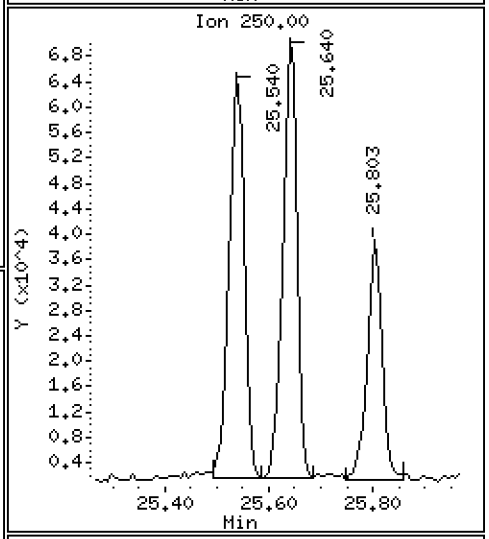


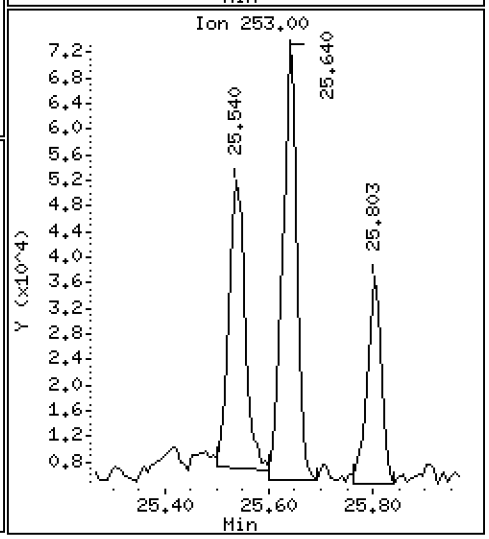












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

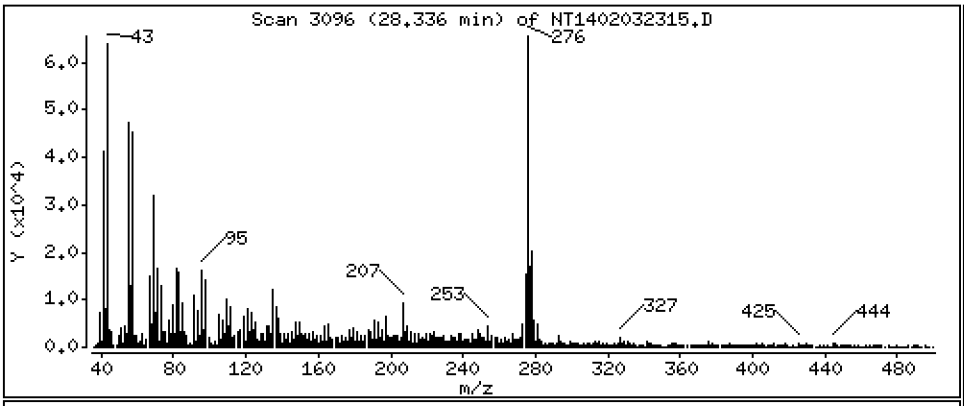
Operator: DSD

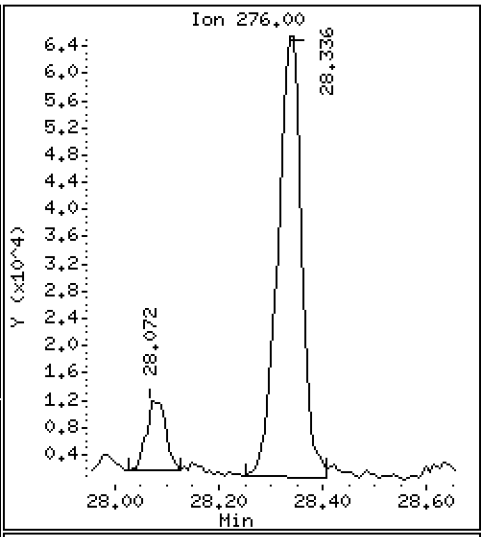
Column phase: ZB-5msi

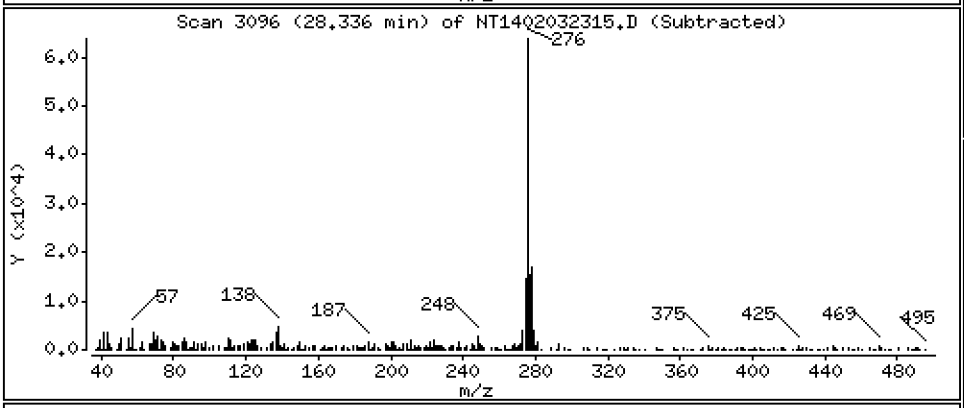
Column diameter: 0.25

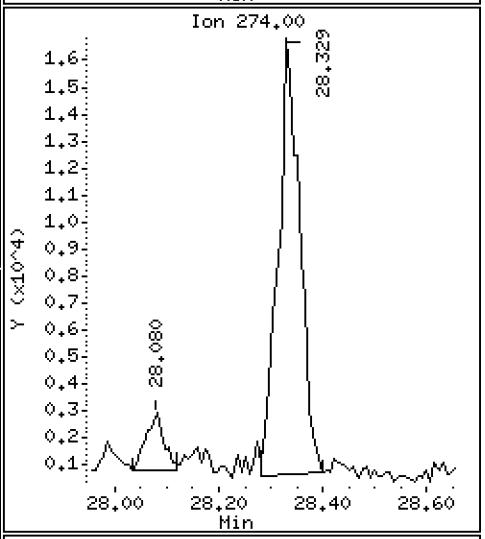
78 Indeno(1,2,3-cd)pyrene

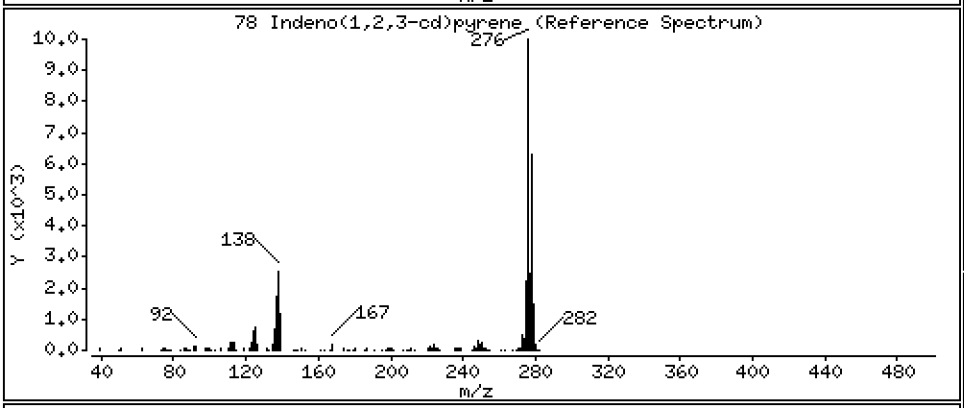
Concentration: 4.378 ug/mL

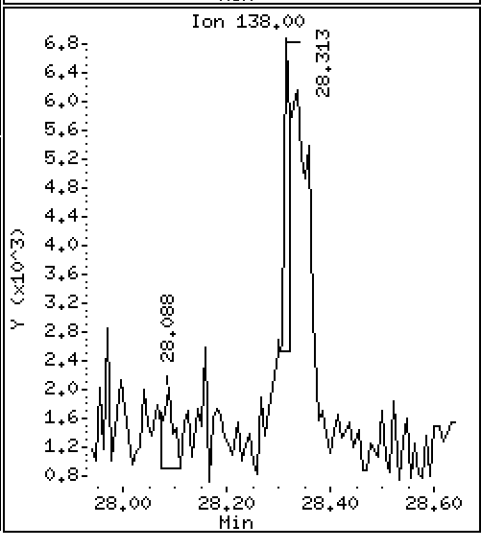


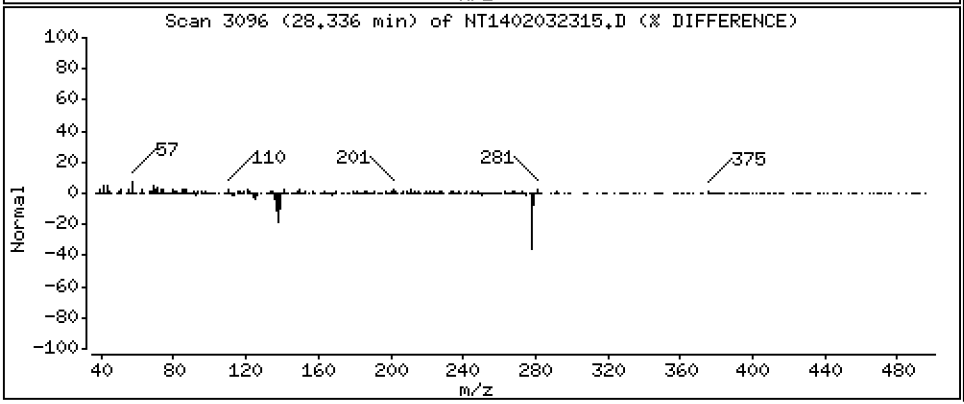












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

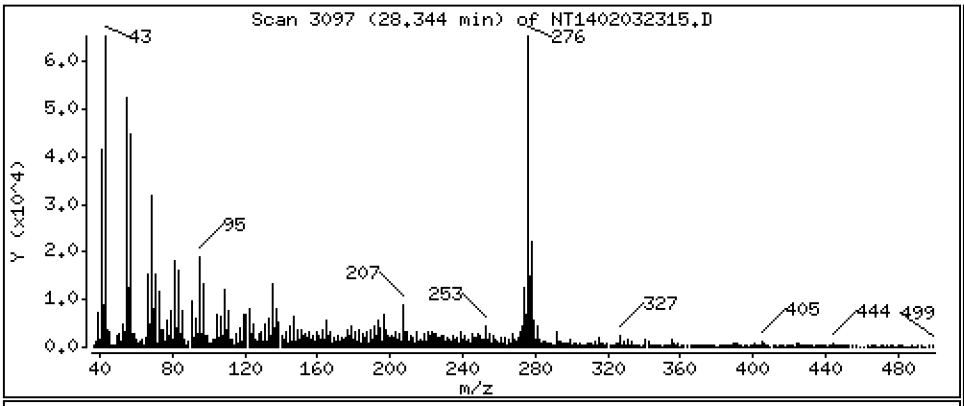
Operator: DSD

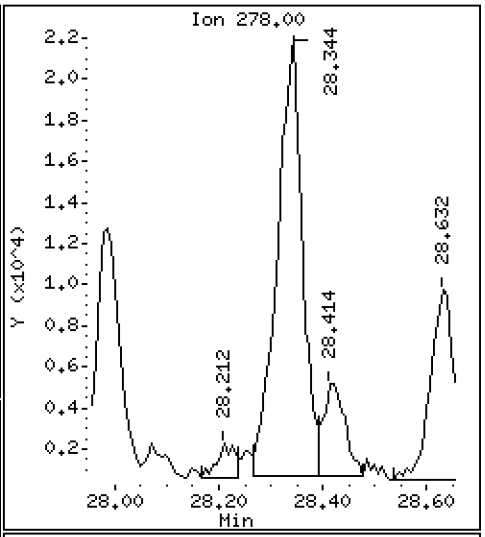
Column phase: ZB-5msi

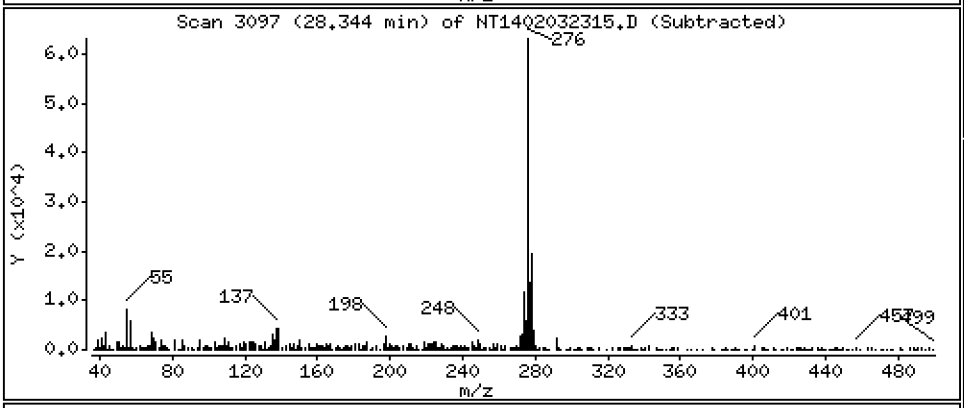
Column diameter: 0.25

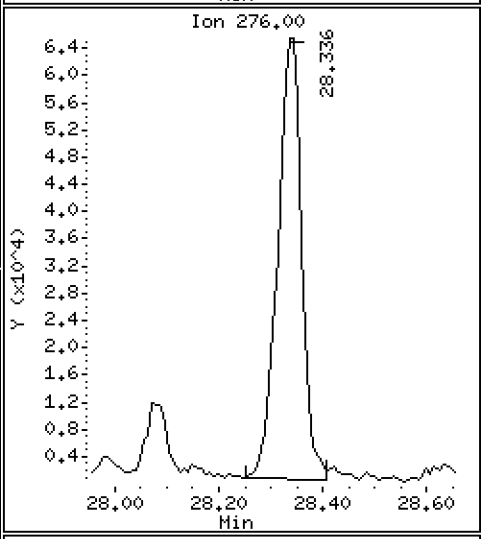
79 Dibenzo(a,h)anthracene

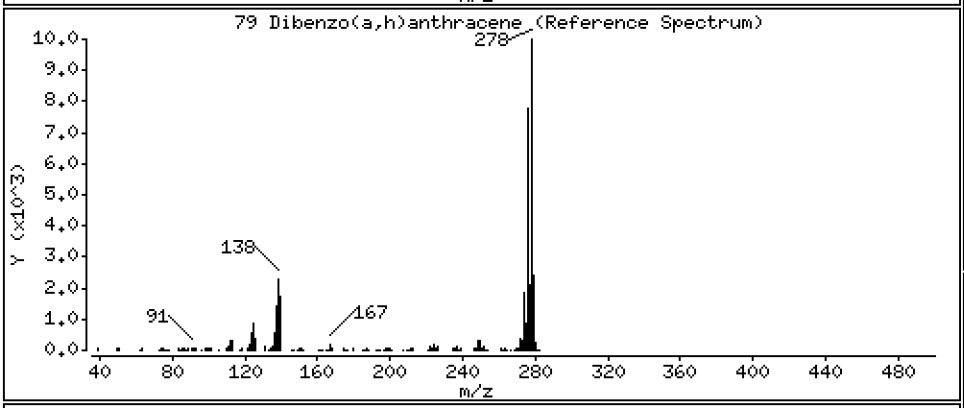
Concentration: 1.756 ug/mL

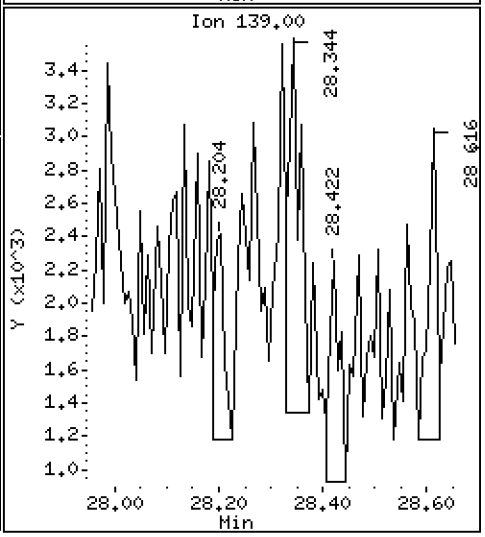


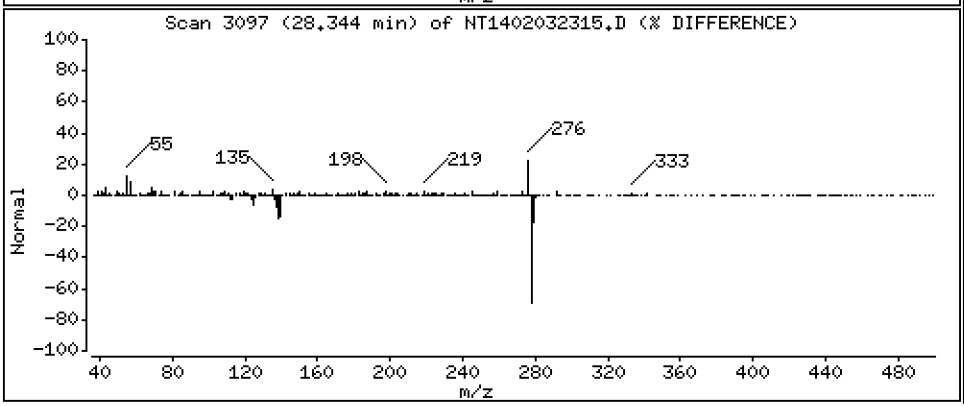












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Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

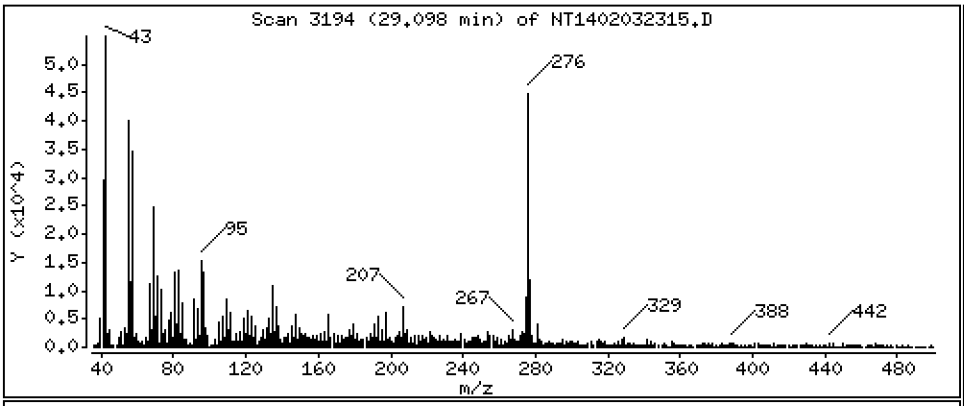
Operator: DSD

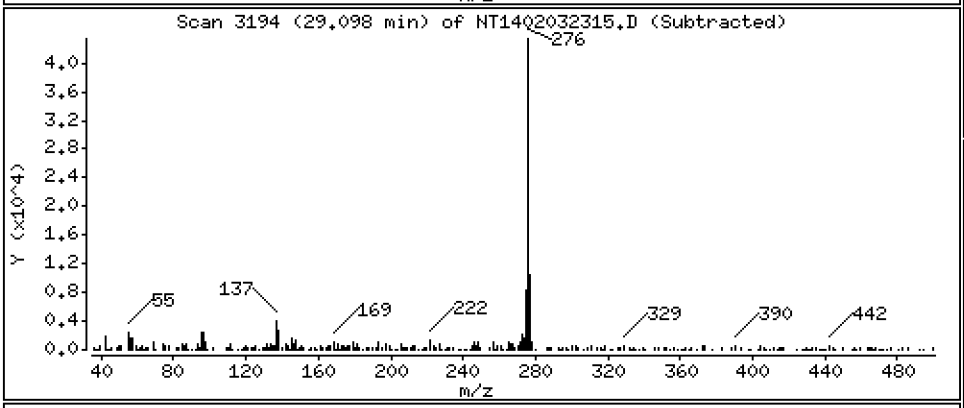
Column phase: ZB-5msi

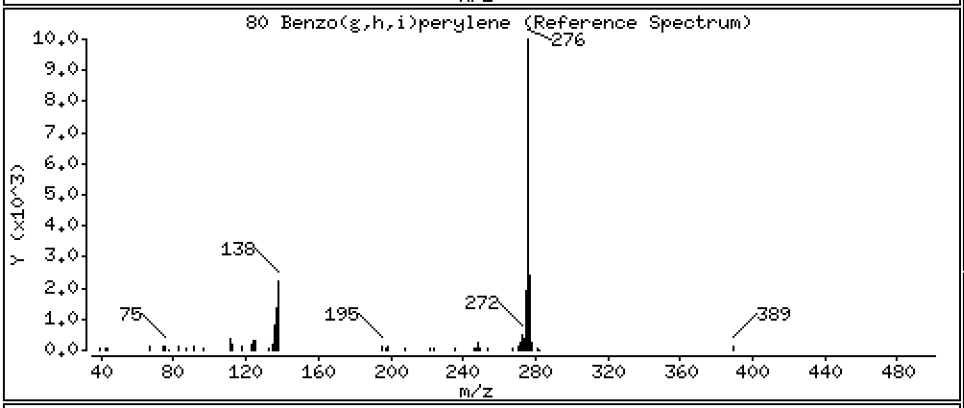
Column diameter: 0.25

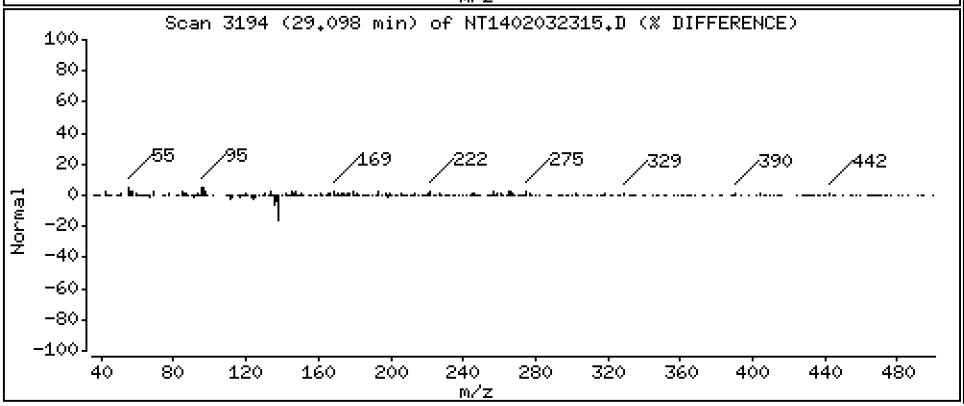
80 Benzo(g,h,i)perylene

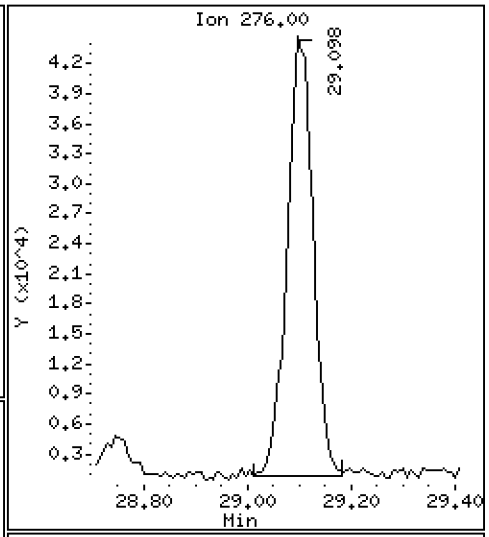
Concentration: 4.342 ug/mL

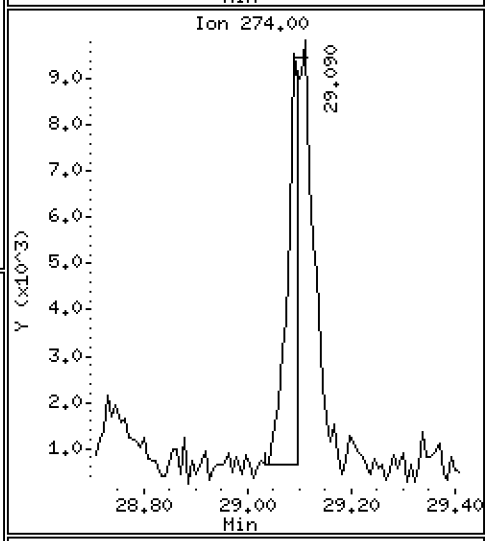


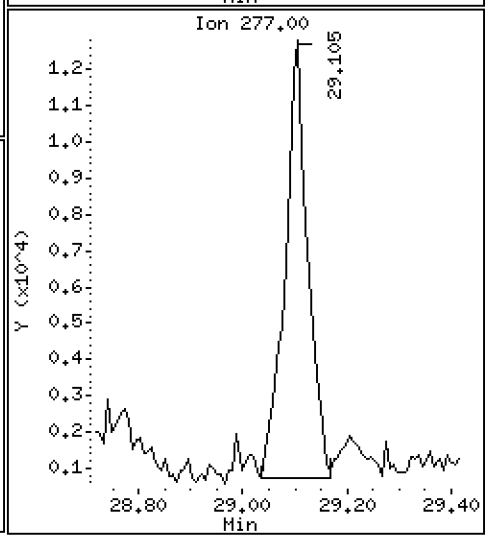












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032315.D

Date : 03-FEB-2023 21:33

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-05

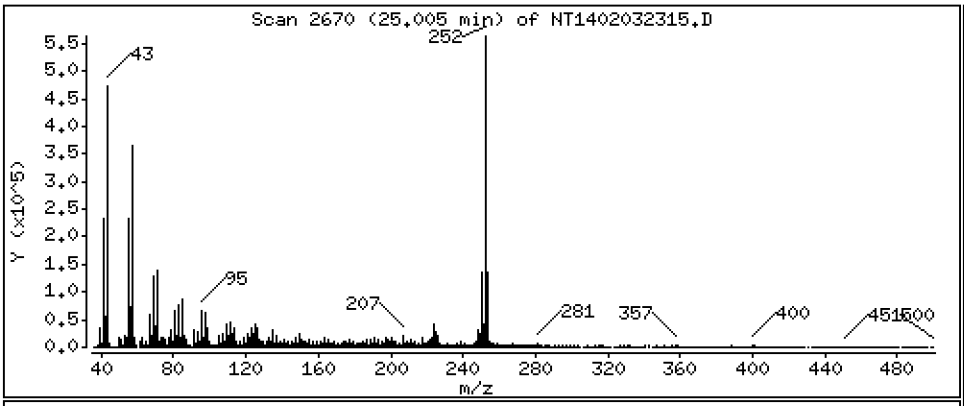
Operator: DSD

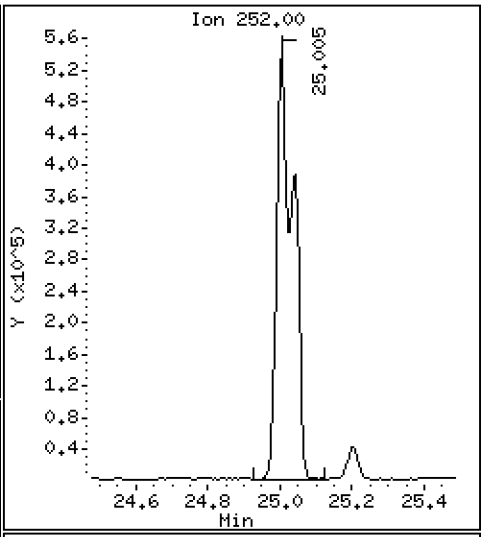
Column phase: ZB-5msi

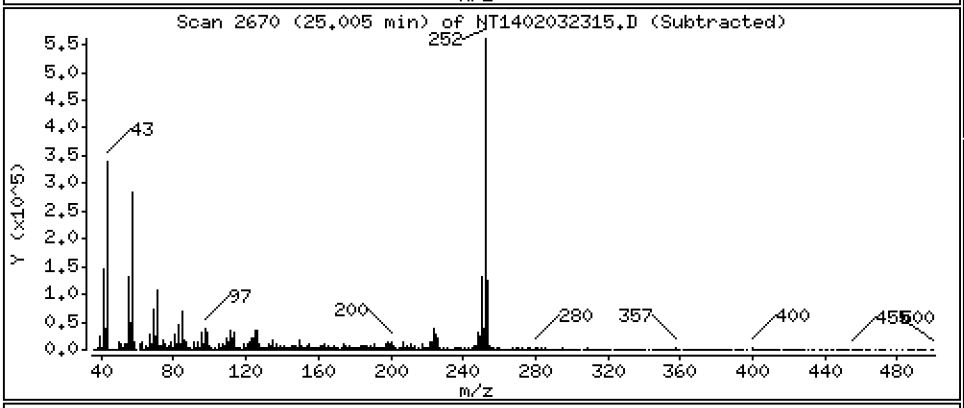
Column diameter: 0.25

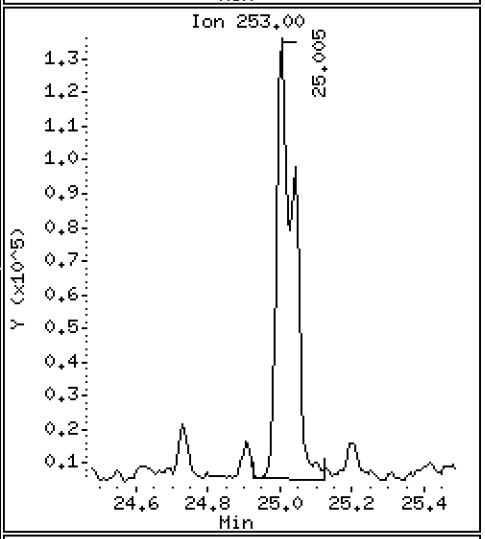
187 Total Benzofluoranthenes

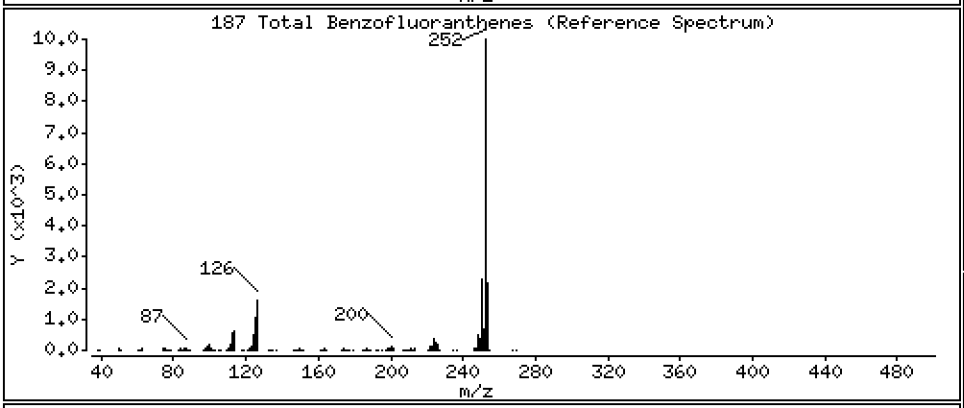
Concentration: 38.92 ug/mL

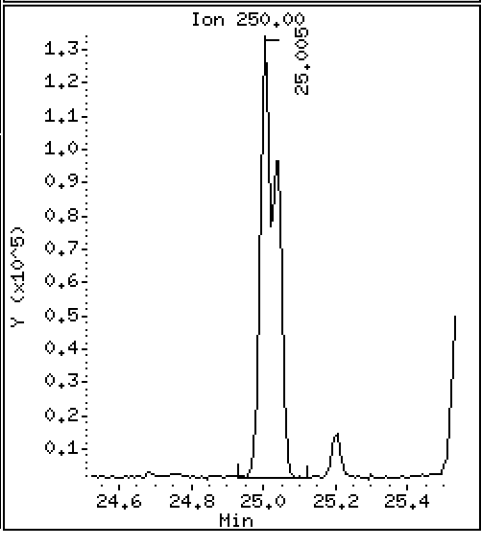


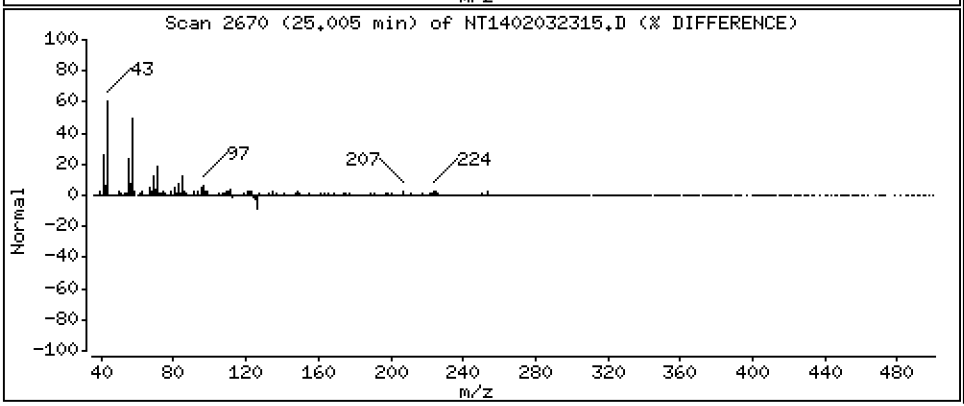












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230203.b\NT1402032315.D
Lab Smp Id: 22L0459-05
Inj Date : 03-FEB-2023 21:33 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : 22L0459-05
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.721	6.720	(0.752)	61306	4.32790	4.328
$	2 Phenol-d5	99	8.312	8.312	(0.930)	90034	4.83747	4.837
	3 Phenol	94	8.336	8.336	(0.933)	18049	0.79063	0.7906
$	5 2-Chlorophenol-d4	132	8.583	8.583	(0.960)	98477	5.47045	5.470
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.939	8.946	(1.000)	52740	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.041)	43343	3.39250	3.392
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.226	9.218	(1.032)	5116	0.45456	0.4546
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.459	9.451	(1.058)	607	0.03463	0.03463
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.723	9.722	(1.088)	8177	0.41330	0.4133
$	18 Nitrobenzene-d5	82	10.033	10.041	(0.877)	112861	3.60152	3.602
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	10.778	10.770	(0.942)	1829	0.05930	0.05930
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.436	11.436	(1.000)	219020	4.00000	
	28 Naphthalene	128	11.475	11.482	(1.003)	20196	0.36649	0.3665
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.883	12.882	(1.126)	13236	0.29462	0.2946
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	13.664	13.664	(0.907)	205774	3.96361	3.964
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	14.748	14.748	(0.979)	22638	0.33482	0.3348
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	15.057	15.057	(1.000)	145876	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	15.127	15.127	(1.005)	8175	0.17875	0.1788
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	15.451	15.451	(1.026)	15437	0.23293	0.2329
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	16.024	16.031	(1.064)	13001	0.16008	0.1601
	49 Fluorene	166	16.163	16.163	(1.073)	34006	0.41593	0.4159
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	16.710	16.702	(1.110)	82611	6.79867	6.799
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.101	18.093	(1.000)	293146	4.00000	
	60 Phenanthrene	178	18.155	18.147	(1.003)	163067	2.06163	2.062
	61 Anthracene	178	18.248	18.232	(1.008)	116725	1.54442	1.544
	62 Carbazole	167	18.573	18.565	(1.026)	27424	0.39516	0.3952
	63 Di-n-butylphthalate	149	19.385	19.377	(1.071)	18012	0.16740	0.1674
	64 Fluoranthene	202	20.569	20.538	(0.888)	207583	4.05177	4.052
	65 Pyrene	202	20.979	20.963	(0.905)	568418	10.1979	10.20
$	66 Terphenyl-d14	244	21.258	21.250	(0.917)	178924	4.19648	4.196
	67 Butylbenzylphthalate	149	22.179	22.179	(0.957)	6827	0.25517	0.2552
	68 Benzo(a)anthracene	228	23.139	23.123	(0.999)	421735	8.87334	8.873
*	69 Chrysene-d12	240	23.170	23.154	(1.000)	130310	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	23.209	23.201	(1.002)	624350	11.6082	11.61
	72 bis(2-Ethylhexyl)phthalate	149	23.209	23.201	(0.959)	115822	3.37777	3.378
*	134 Di-n-octylphthalate-d4	153	24.192	24.184	(1.000)	205005	4.00000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	25.005	24.981	(0.971)	1150455	25.6509	25.65
	75 Benzo(k)fluoranthene	252	25.043	25.020	(0.973)	689566	15.0174	15.02
	76 Benzo(a)pyrene	252	25.640	25.616	(0.996)	552253	14.4110	14.41
*	77 Perylene-d12	264	25.748	25.725	(1.000)	127634	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.336	28.305	(1.101)	211956	4.37793	4.378
	79 Dibenzo(a,h)anthracene	278	28.344	28.305	(1.101)	73218	1.75610	1.756
	80 Benzo(g,h,i)perylene	276	29.097	29.058	(1.130)	155670	4.34183	4.342
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	142	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.005	24.981	(0.971)	1699367	38.9201	38.92
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032315.D
Lab Smp Id: 22L0459-05
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	52740	-18.79
27 Naphthalene-d8	262858	131429	525716	219020	-16.68
42 Acenaphthene-d10	167543	83772	335086	145876	-12.93
59 Phenanthrene-d10	341039	170520	682078	293146	-14.04
69 Chrysene-d12	222731	111366	445462	130310	-41.49
134 Di-n-octylphthala	333425	166713	666850	205005	-38.52
77 Perylene-d12	152721	76361	305442	127634	-16.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.09
27 Naphthalene-d8	11.44	10.94	11.94	11.44	0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.10	0.04
69 Chrysene-d12	23.15	22.65	23.65	23.17	0.07
134 Di-n-octylphthala	24.18	23.68	24.68	24.19	0.03
77 Perylene-d12	25.73	25.23	26.23	25.75	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032315.D

Lab ID: 22L0459-05
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 21:33

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1402032303.D

On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1070B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-06 A	SDG:	22L0459
Sampled:	12/16/22 12:01	Prepared:	01/05/23 16:13	File ID:	NT1402032316.D
% Solids:	52.36	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 22:09
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	19.11 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	13.6	J	4.4	20.0
106-44-5	4-Methylphenol	1	21.9		7.4	20.0
91-20-3	Naphthalene	1	29.1		4.2	20.0
91-57-6	2-Methylnaphthalene	1	32.7		4.5	20.0
208-96-8	Acenaphthylene	1	20.0	U	6.2	20.0
131-11-3	Dimethylphthalate	1	20.0	U	4.4	20.0
83-32-9	Acenaphthene	1	15.2	J	5.2	20.0
132-64-9	Dibenzofuran	1	24.4		14.1	20.0
86-73-7	Fluorene	1	28.7		14.6	20.0
85-01-8	Phenanthrene	1	75.0		8.7	20.0
120-12-7	Anthracene	1	48.5		7.2	20.0
206-44-0	Fluoranthene	1	202		6.1	20.0
129-00-0	Pyrene	1	189		5.7	20.0
85-68-7	Butylbenzylphthalate	1	20.0	M, U	9.4	20.0
56-55-3	Benzo(a)anthracene	1	51.7		6.0	20.0
218-01-9	Chrysene	1	61.7		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	102		5.5	50.0
	Benzofluoranthenes, Total	1	120		10.0	40.0
50-32-8	Benzo(a)pyrene	1	34.1		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	16.9	J	14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	20.0	U	17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	24.4		13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.55	442	58.9	27 - 120	
Phenol-d5	749.55	510	68.1	29 - 120	
2-Chlorophenol-d4	749.55	570	76.0	31 - 120	
1,2-Dichlorobenzene-d4	499.70	363	72.7	32 - 120	
Nitrobenzene-d5	499.70	379	75.9	30 - 120	
2-Fluorobiphenyl	499.70	433	86.6	35 - 120	

LDW23-SC1070B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

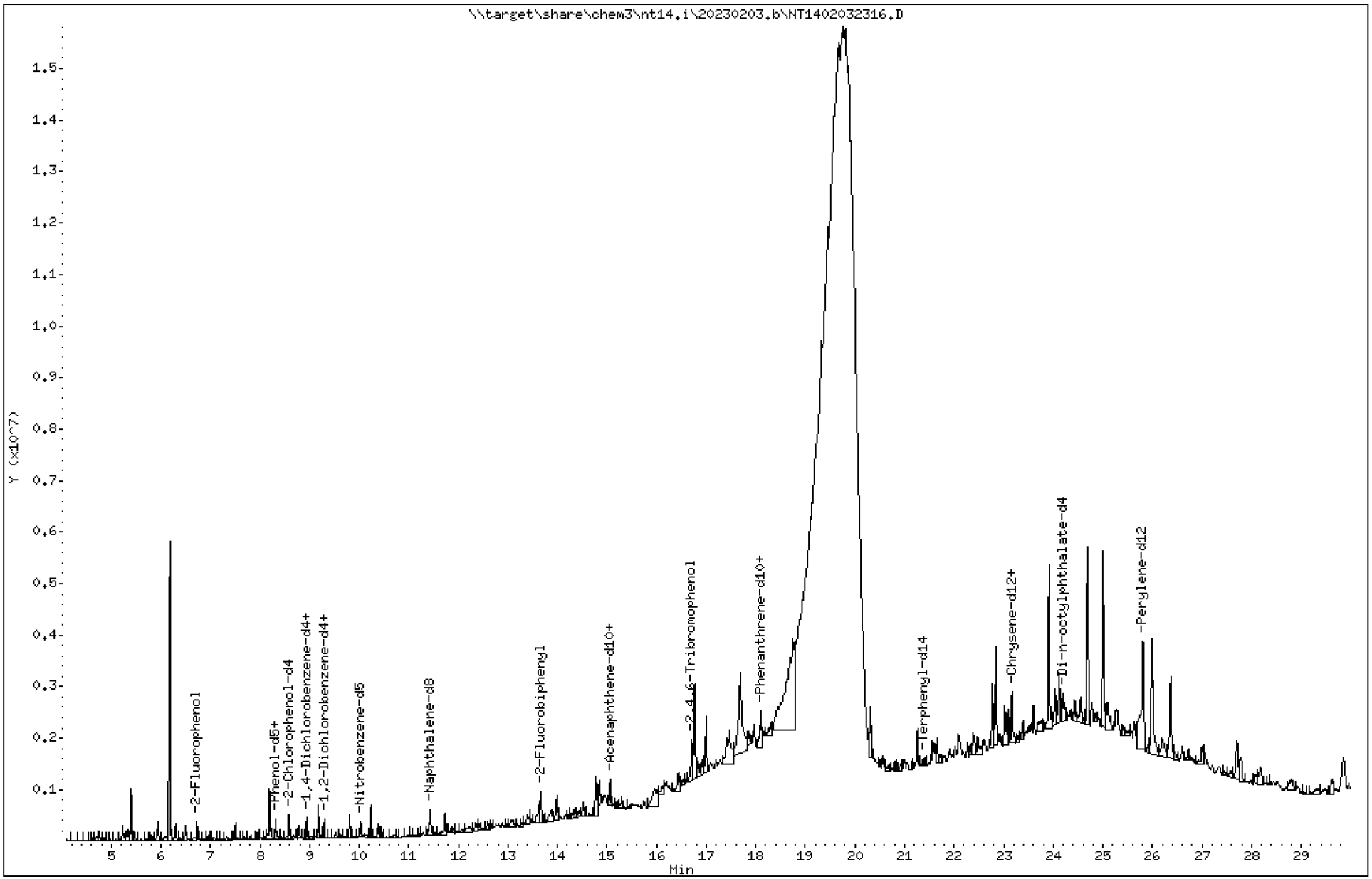
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-06 A	SDG:	22L0459
Sampled:	12/16/22 12:01	Prepared:	01/05/23 16:13	File ID:	NT1402032316.D
% Solids:	52.36	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 22:09
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	19.11 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	749.55	708	94.4	24 - 134	
p-Terphenyl-d14	499.70	474	94.9	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032316.D
Date : 03-FEB-2023 22:09
Client ID:
Sample Info: 22L0459-06

Instrument: nt14.i
Operator: DSD
Column diameter: 0.25

Column phase: ZB-5msi



Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032316.D

Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

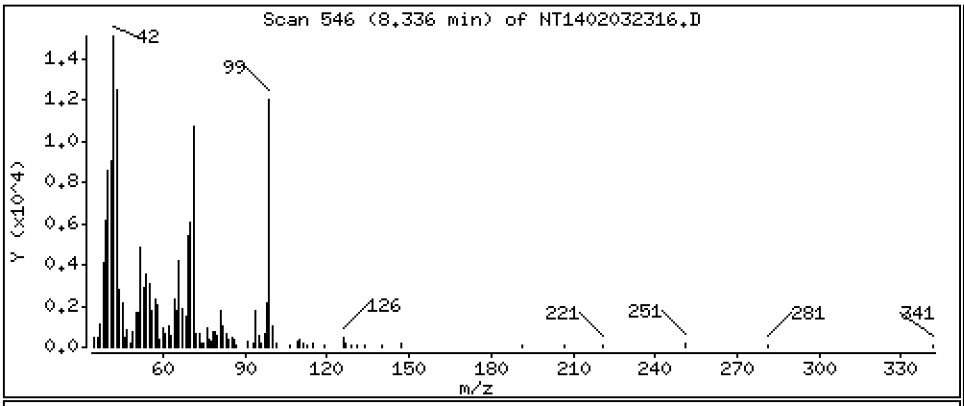
Operator: DSD

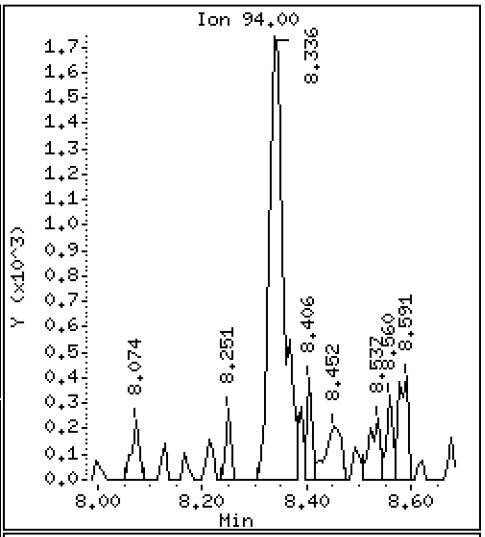
Column phase: ZB-5msi

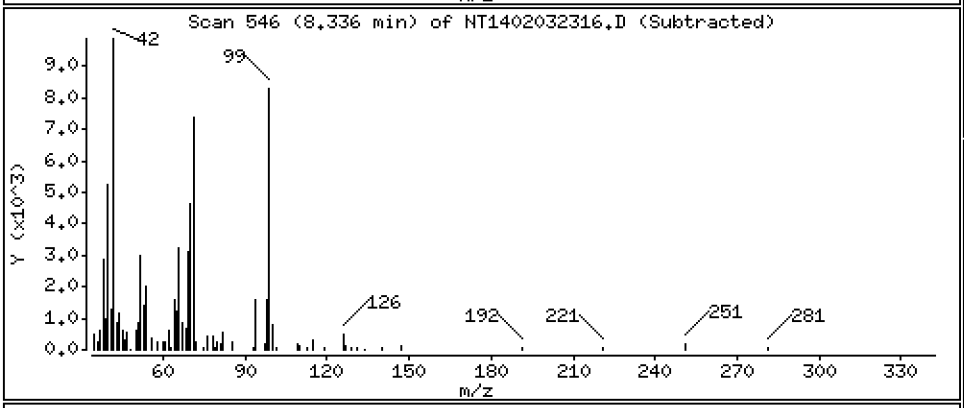
Column diameter: 0.25

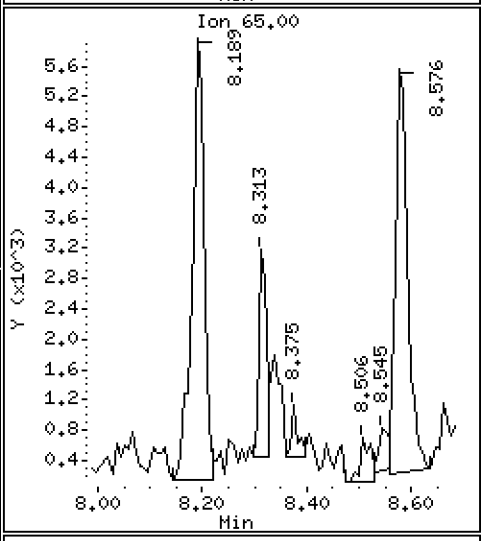
3 Phenol

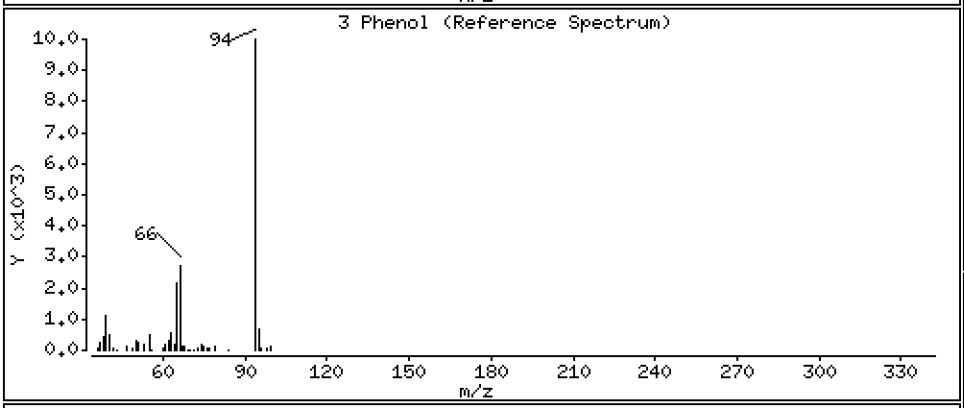
Concentration: 0.1363 ug/mL

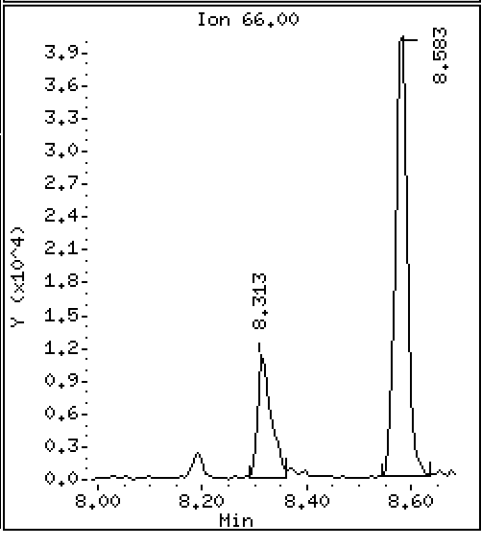


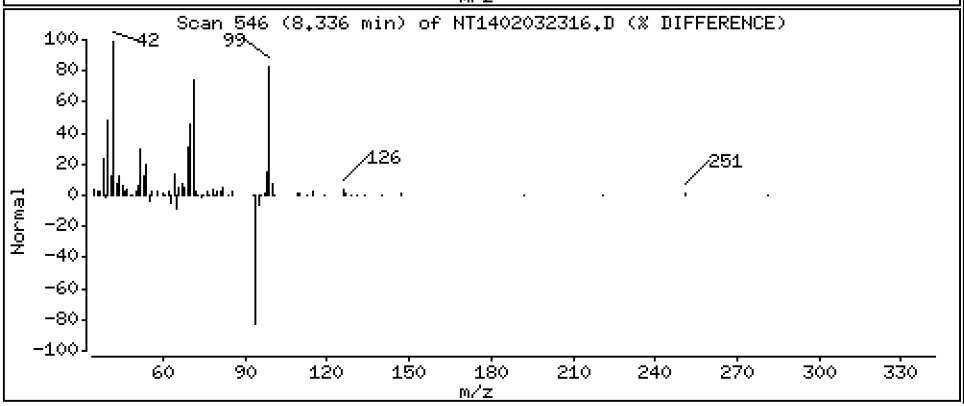












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032316.D

Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

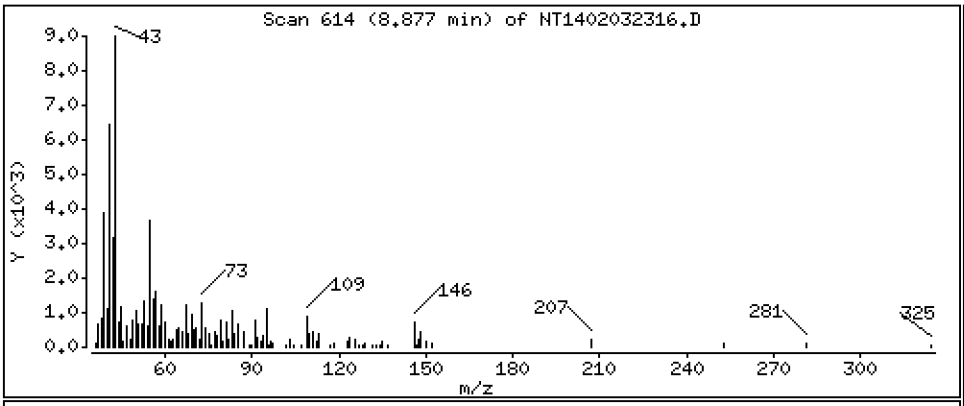
Operator: DSD

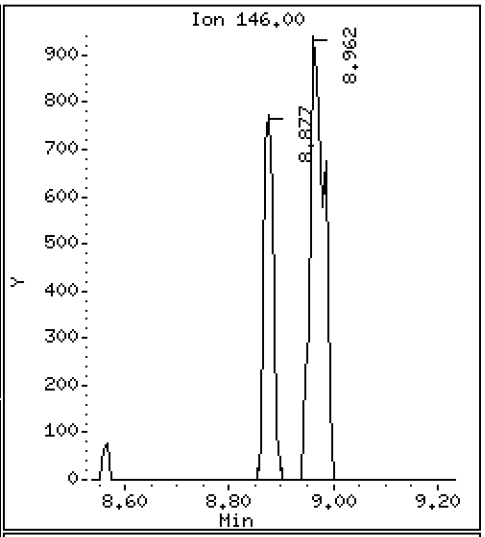
Column phase: ZB-5msi

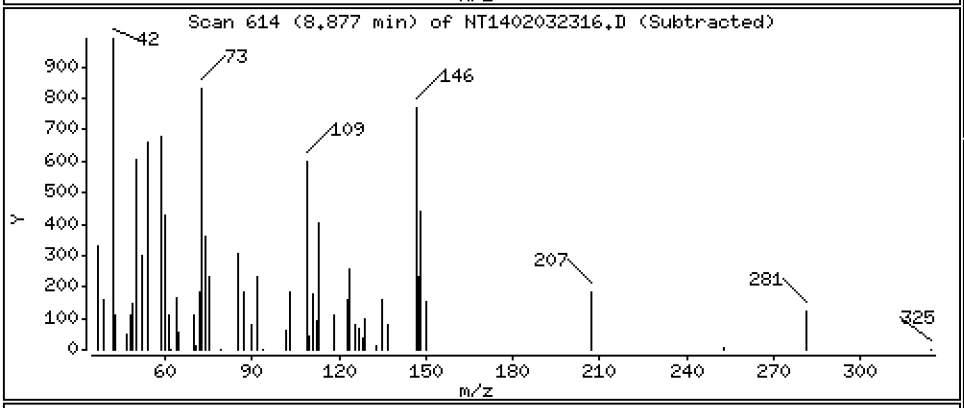
Column diameter: 0.25

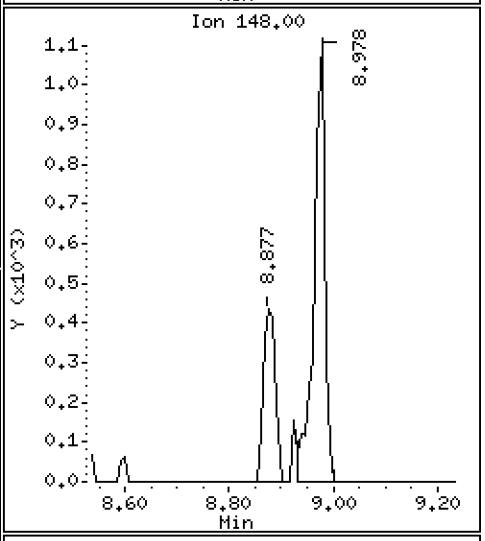
7 1,3-Dichlorobenzene

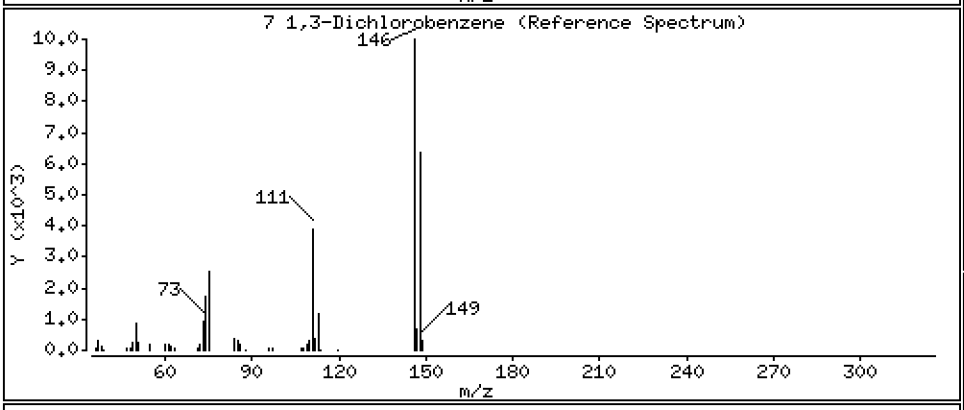
Concentration: 0.04692 ug/mL

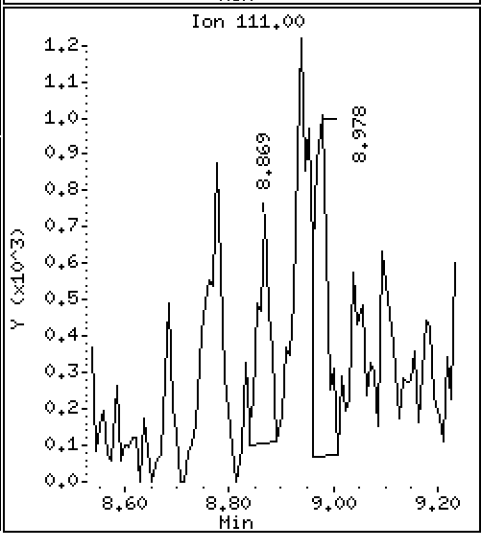


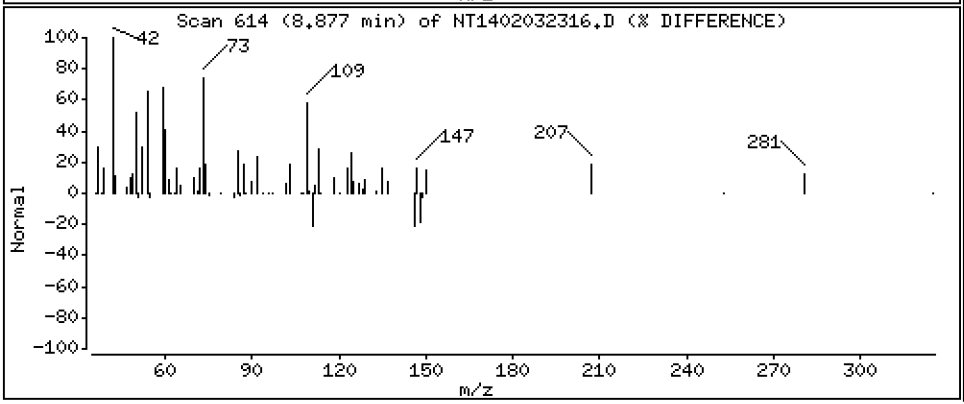












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

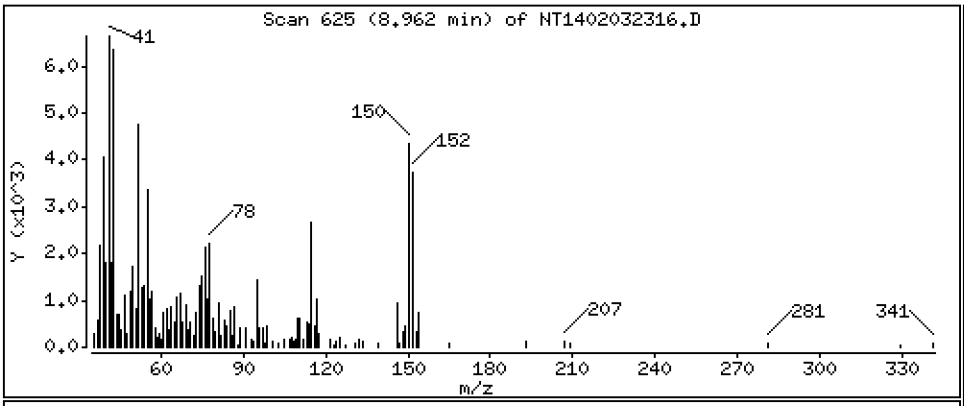
Operator: DSD

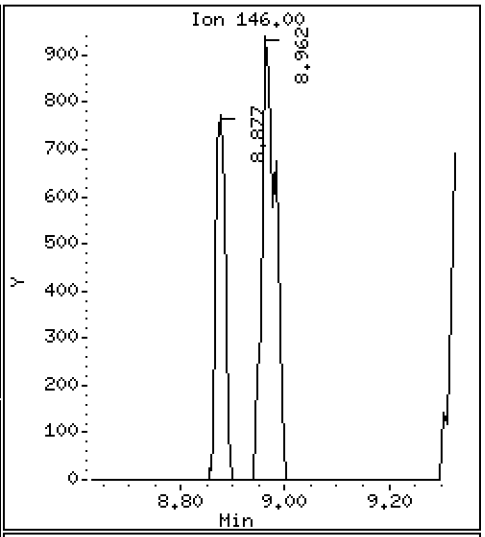
Column phase: ZB-5msi

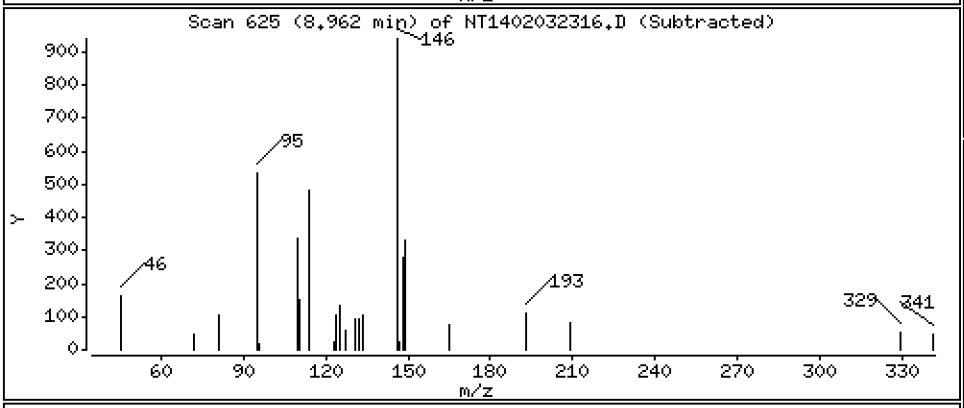
Column diameter: 0.25

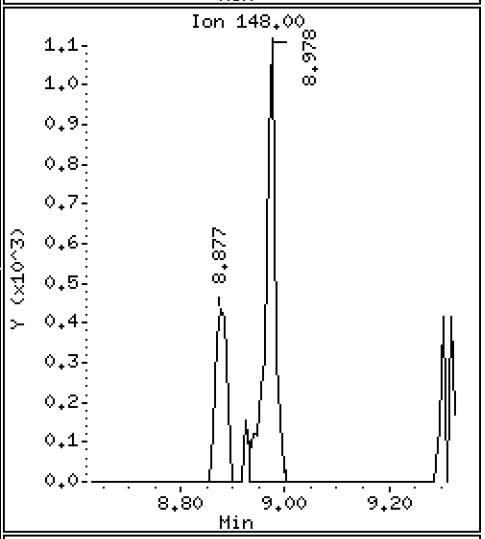
9 1,4-Dichlorobenzene

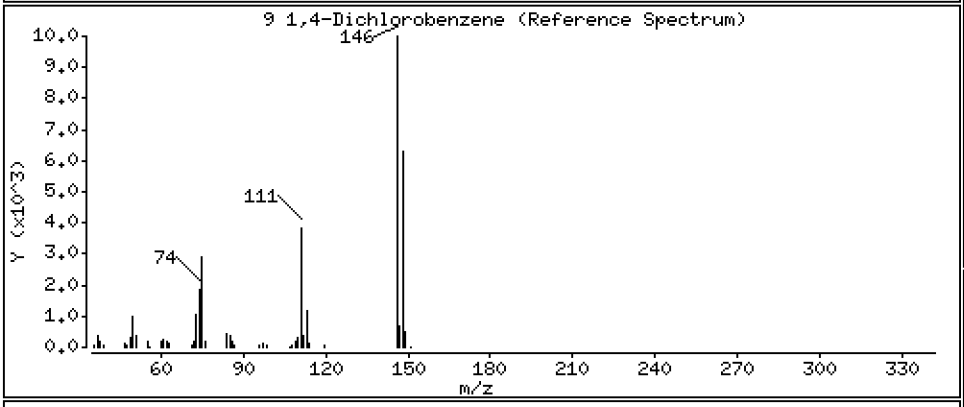
Concentration: 0.07687 ug/mL

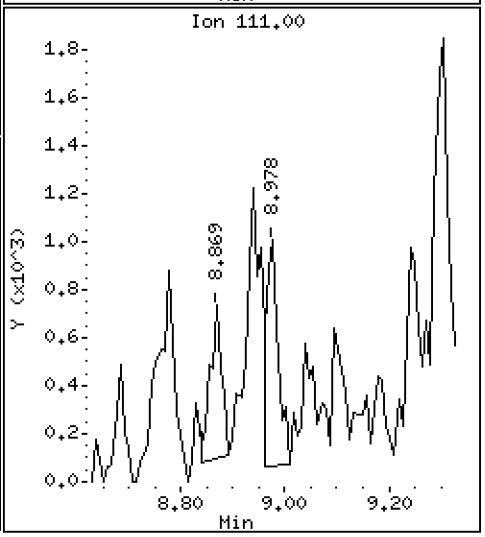


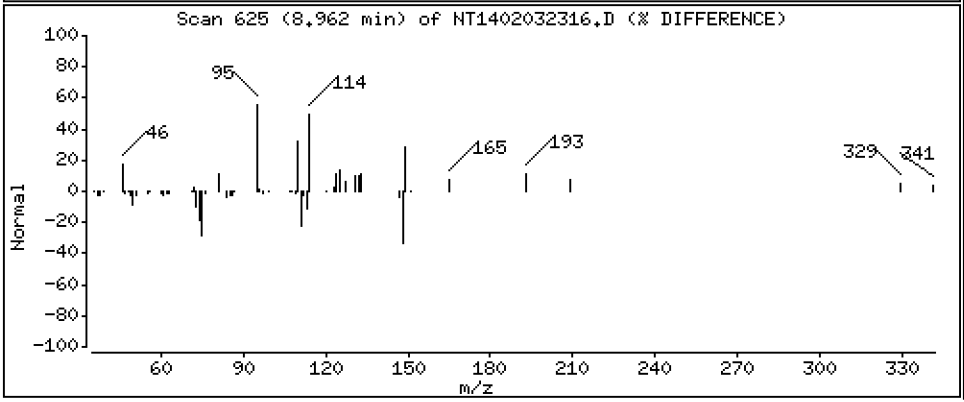












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

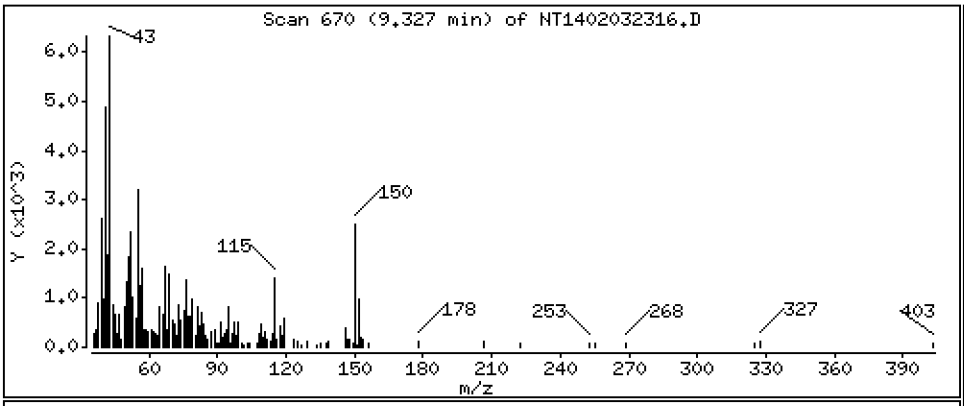
Operator: DSD

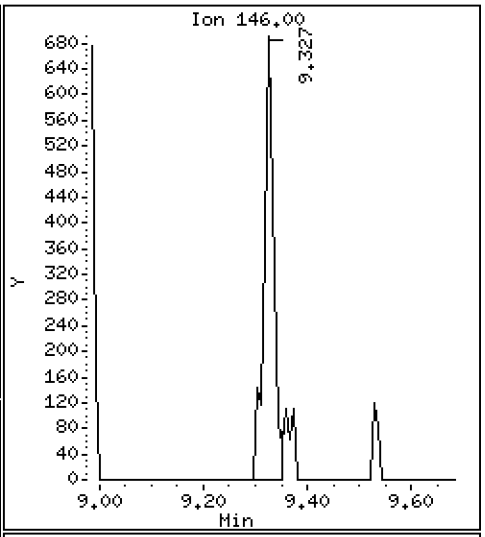
Column phase: ZB-5msi

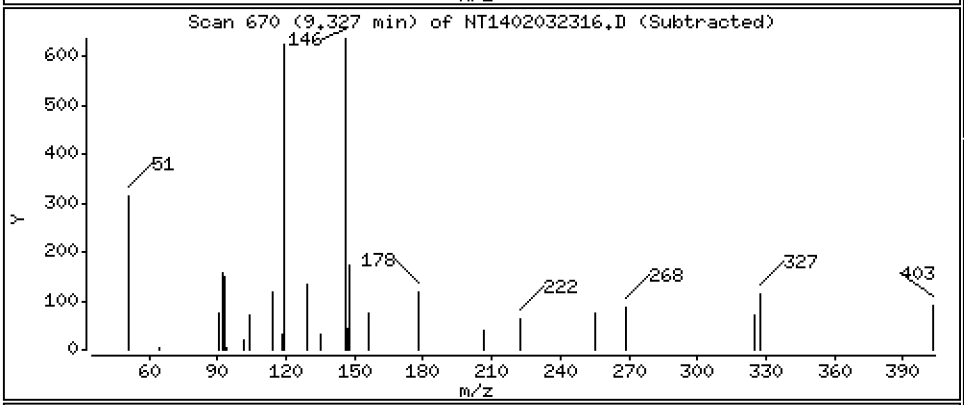
Column diameter: 0.25

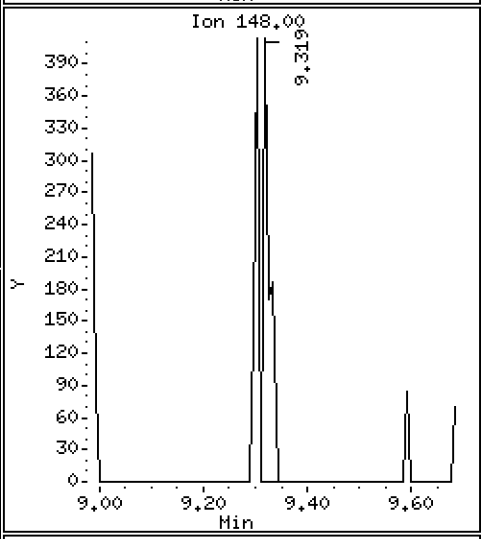
12 1,2-Dichlorobenzene

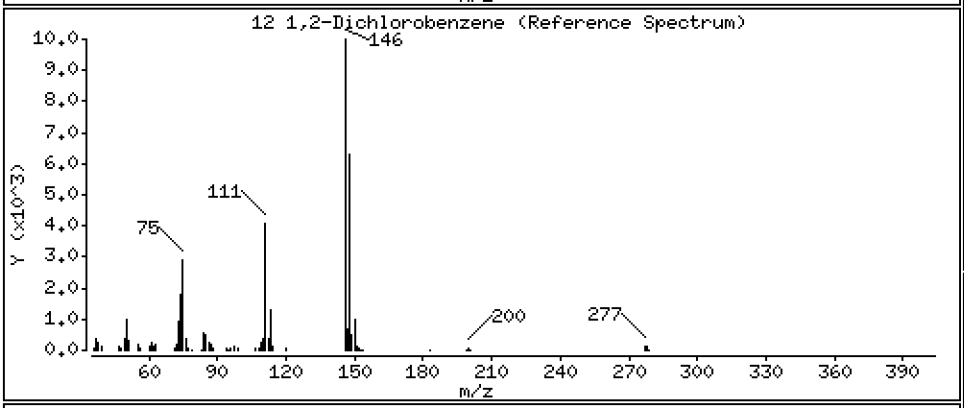
Concentration: 0.03970 ug/mL

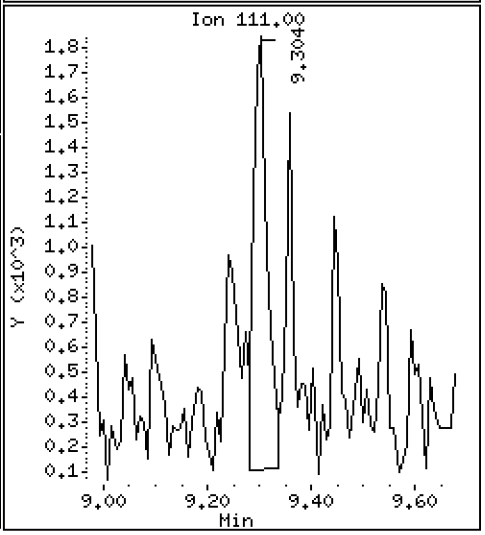


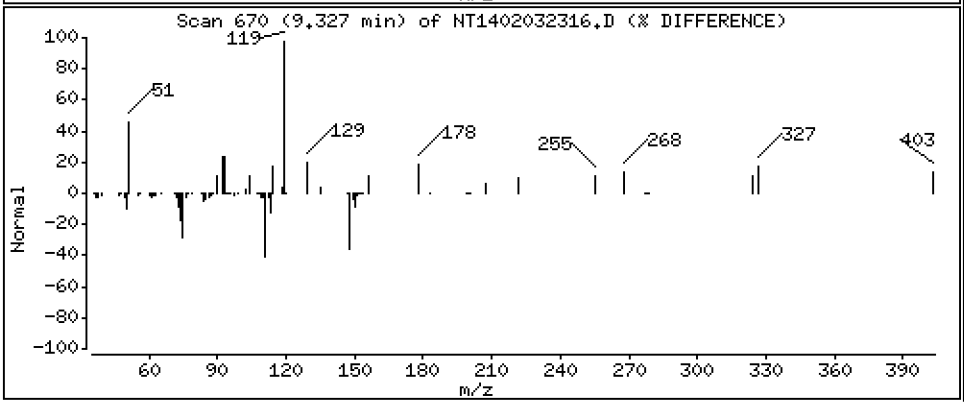












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

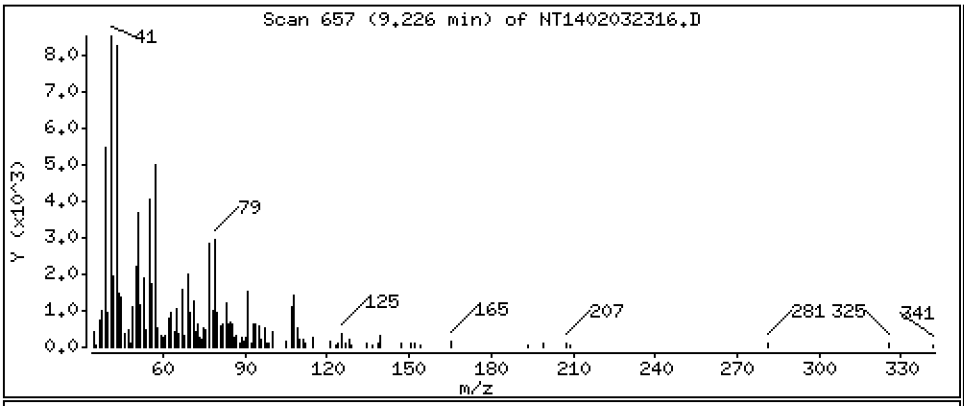
Operator: DSD

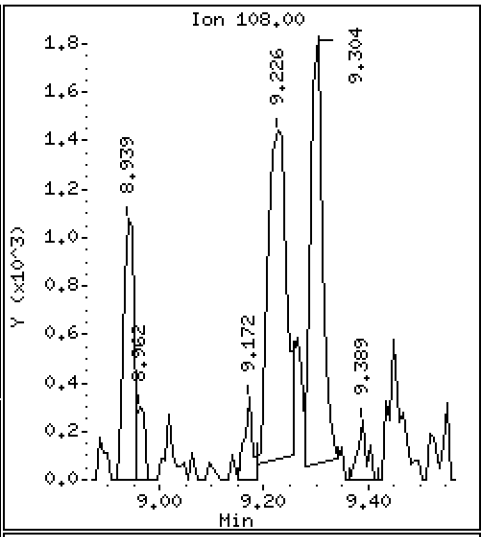
Column phase: ZB-5msi

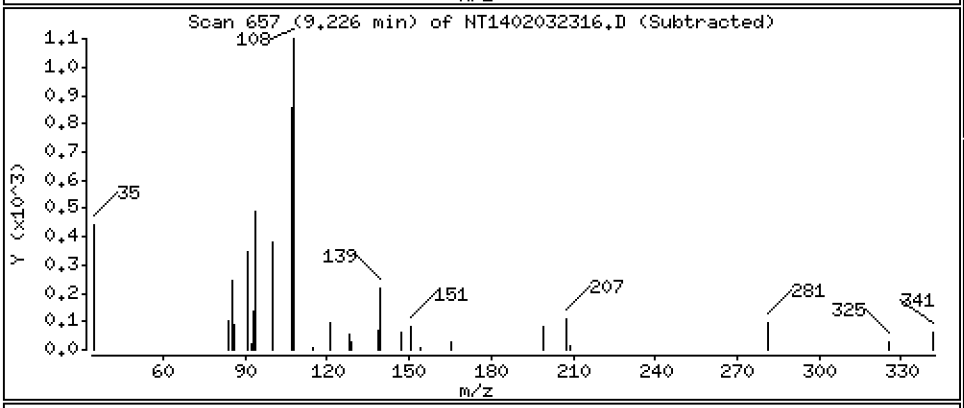
Column diameter: 0.25

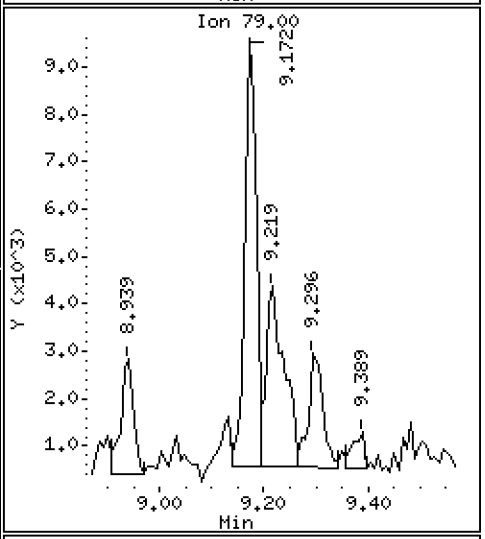
11 Benzyl alcohol

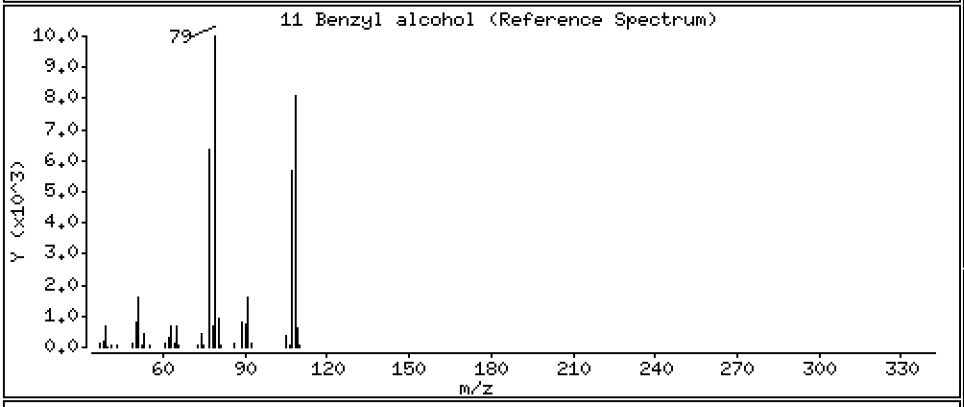
Concentration: 0.2767 ug/mL

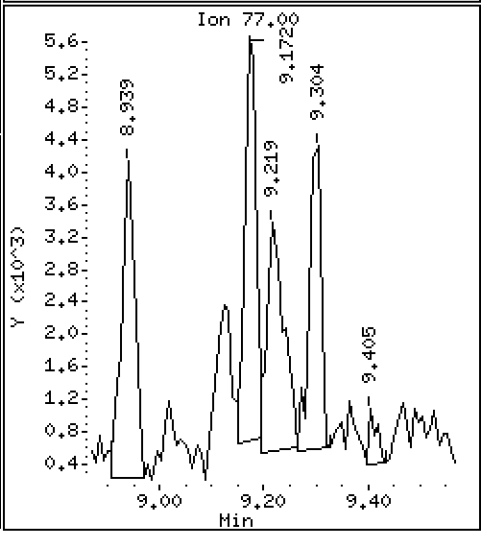


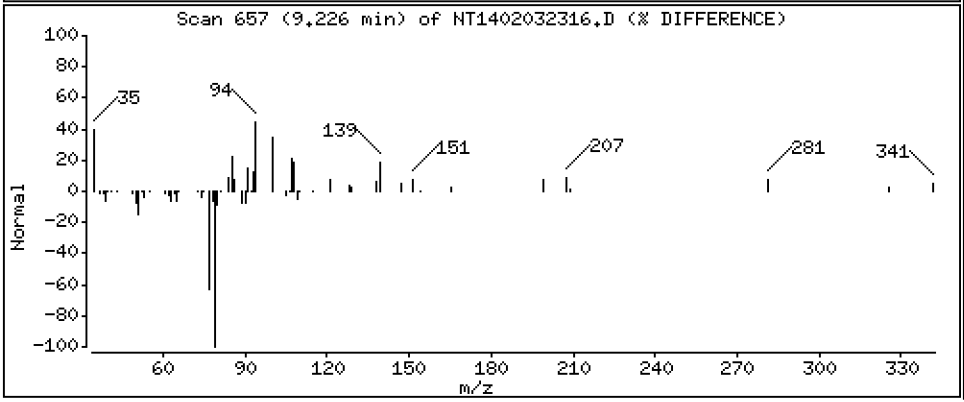












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

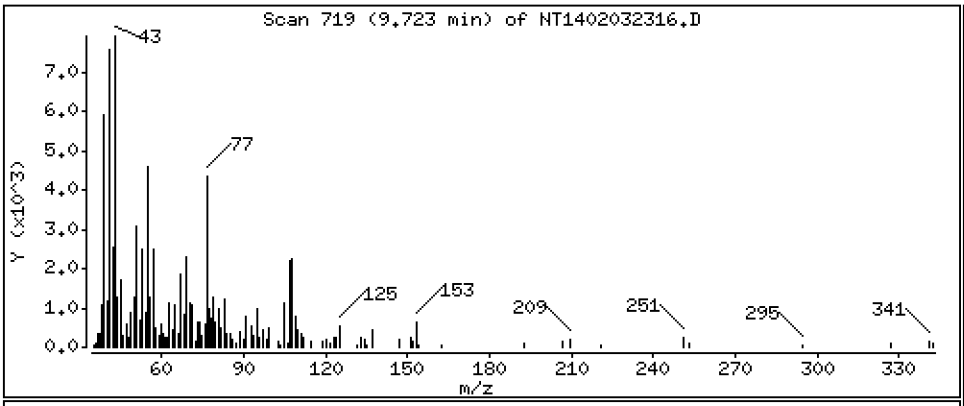
Operator: DSD

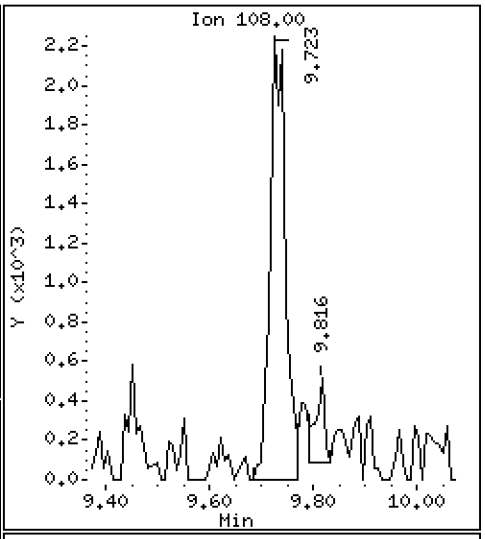
Column phase: ZB-5msi

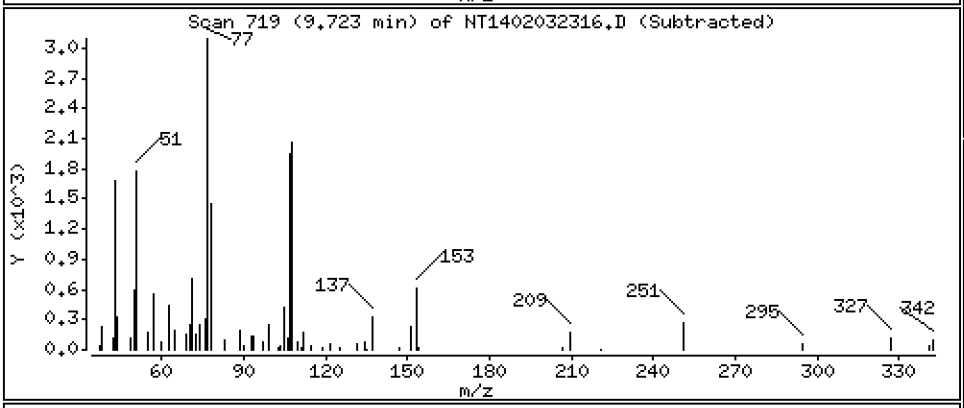
Column diameter: 0.25

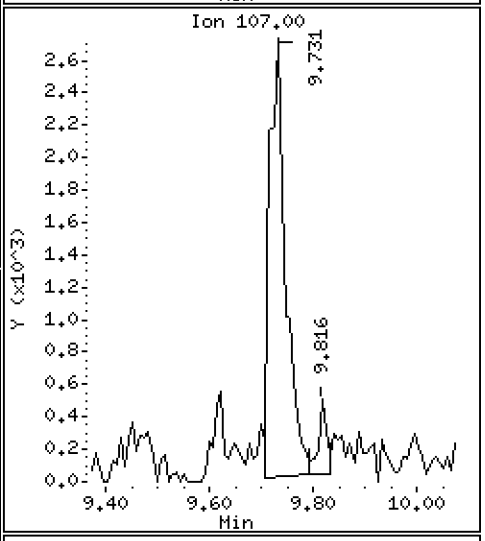
15 4-Methylphenol

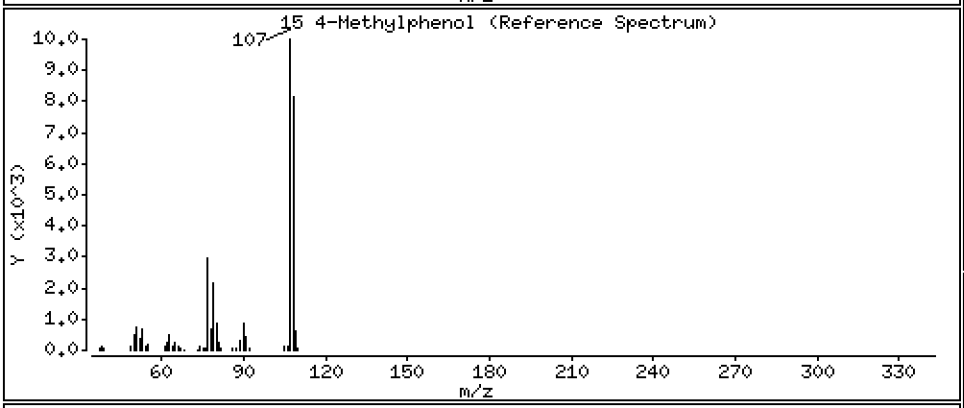
Concentration: 0.2189 ug/mL

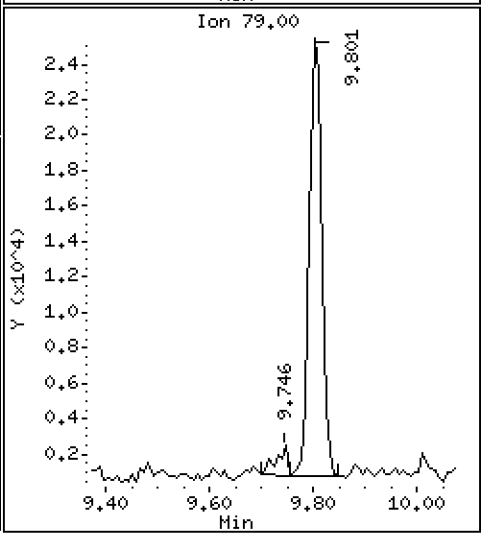


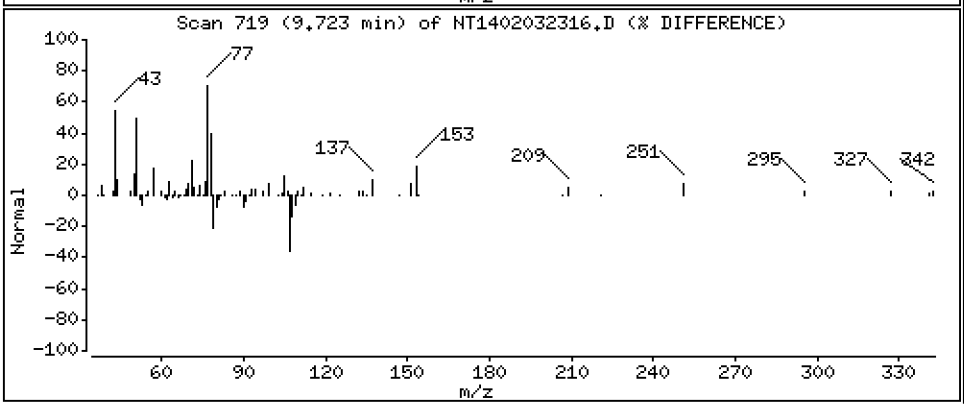












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

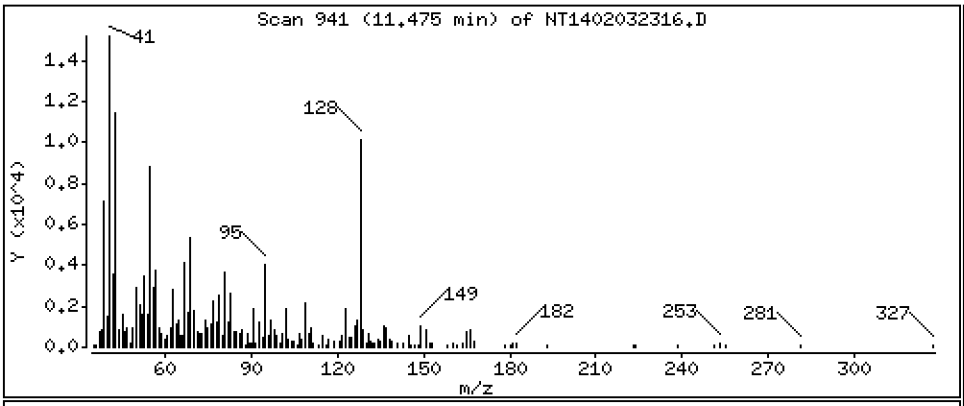
Operator: DSD

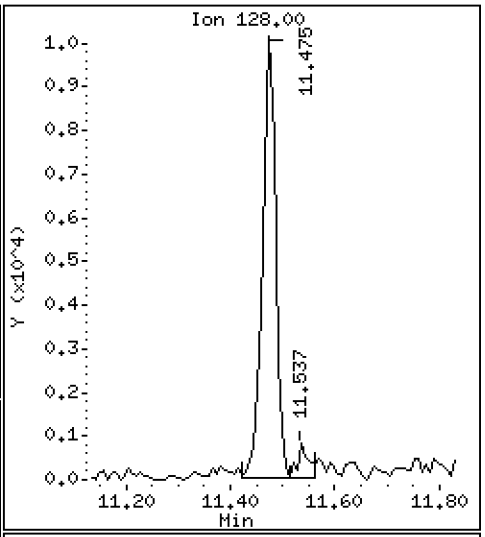
Column phase: ZB-5msi

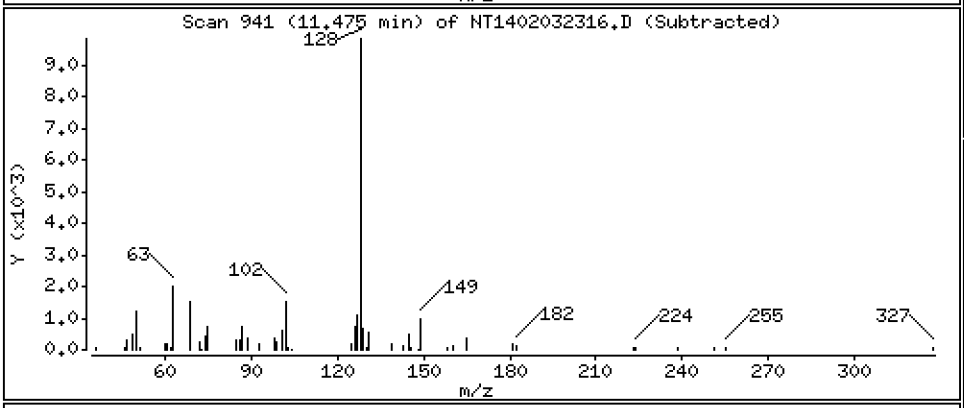
Column diameter: 0.25

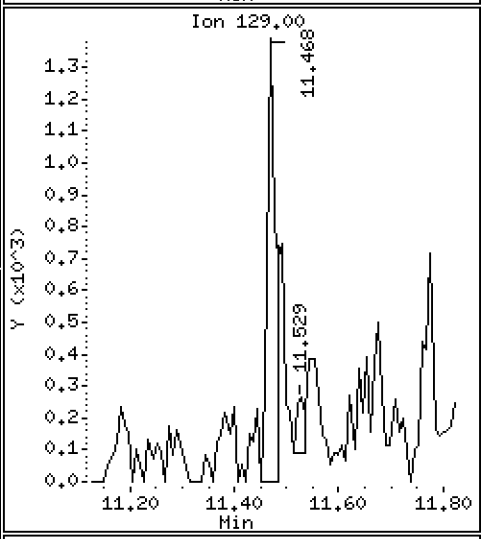
28 Naphthalene

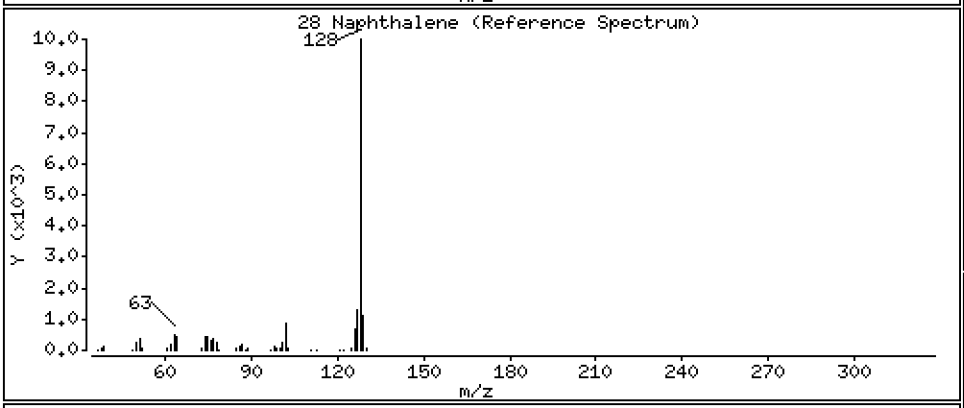
Concentration: 0.2913 ug/mL

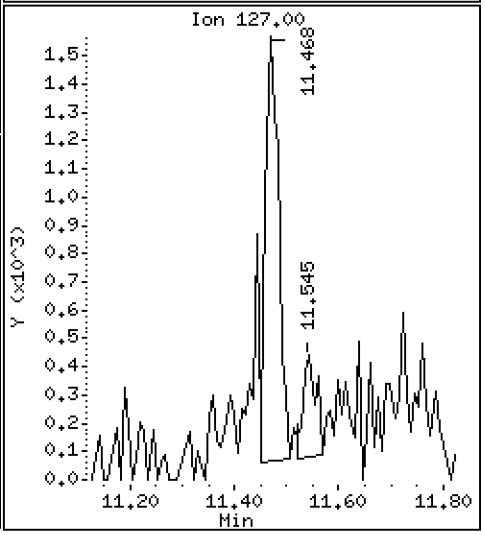


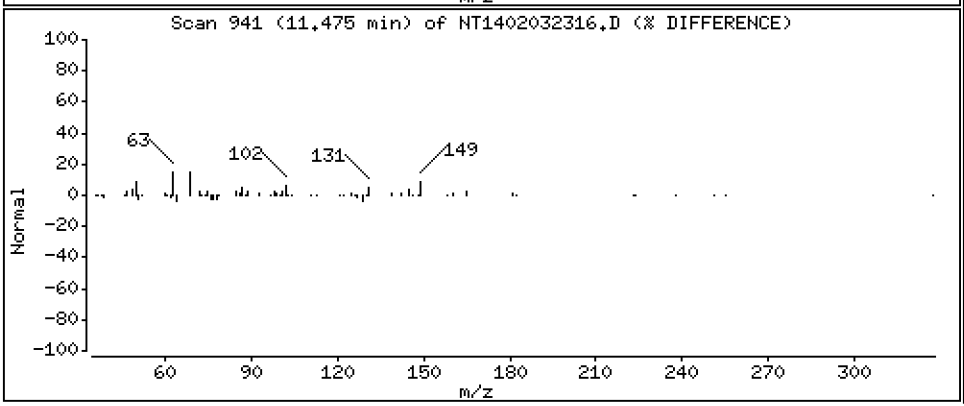












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

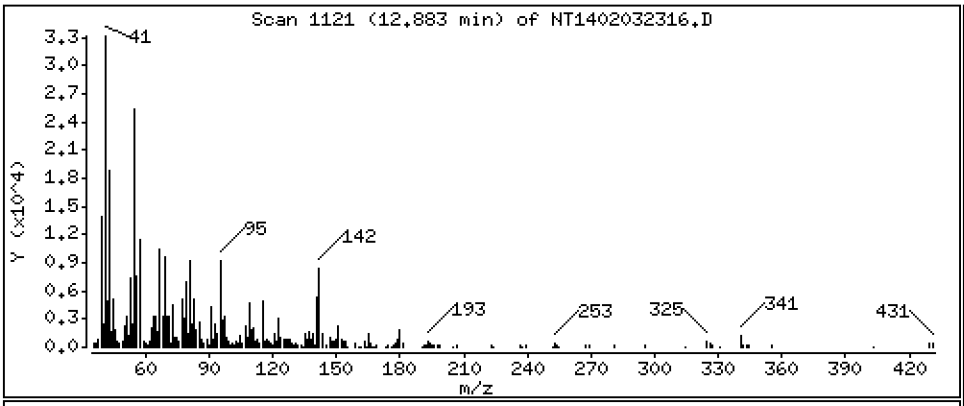
Operator: DSD

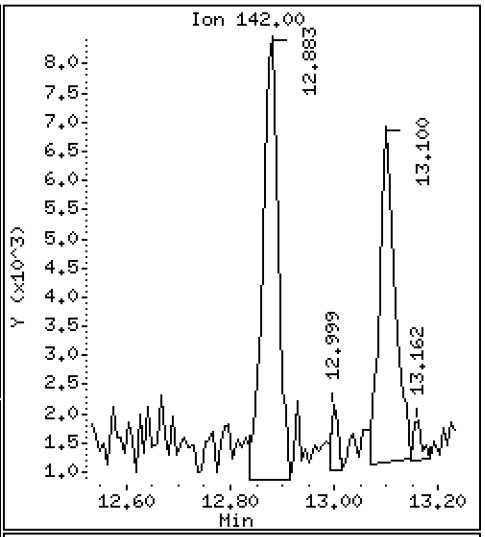
Column phase: ZB-5msi

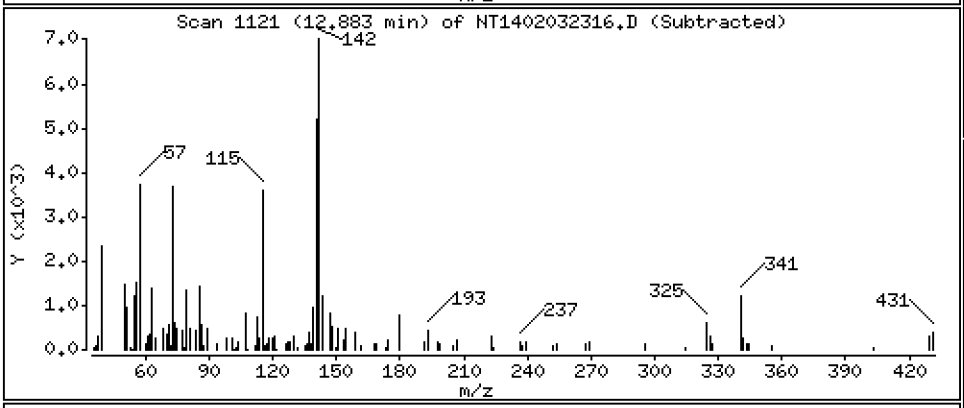
Column diameter: 0.25

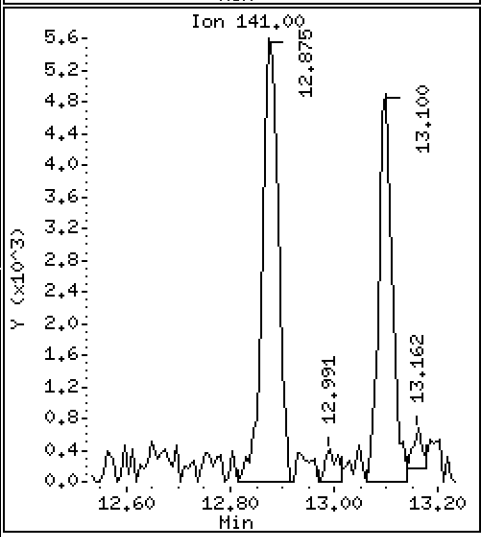
32 2-Methylnaphthalene

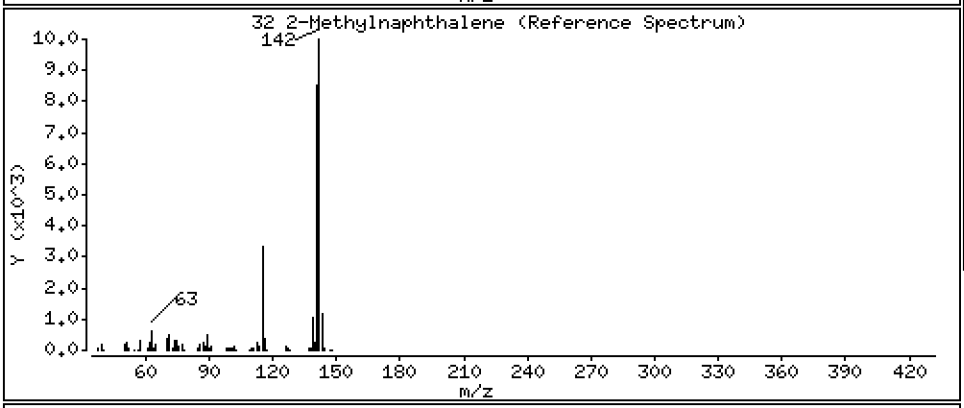
Concentration: 0.3272 ug/mL

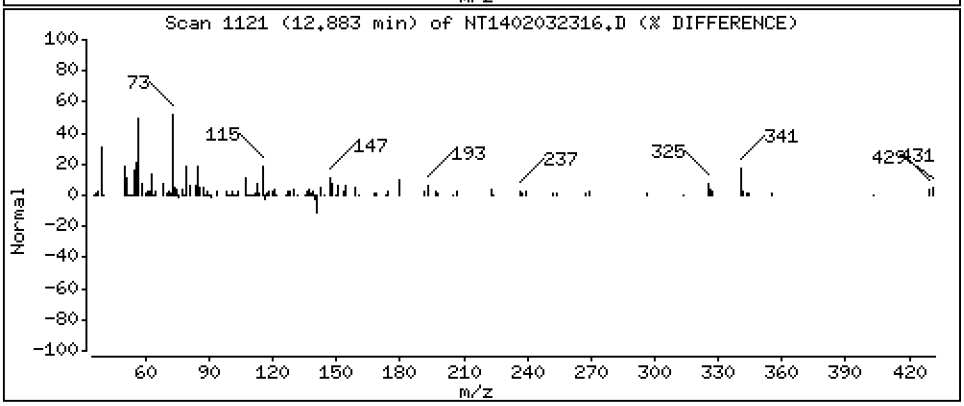












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032316.D

Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

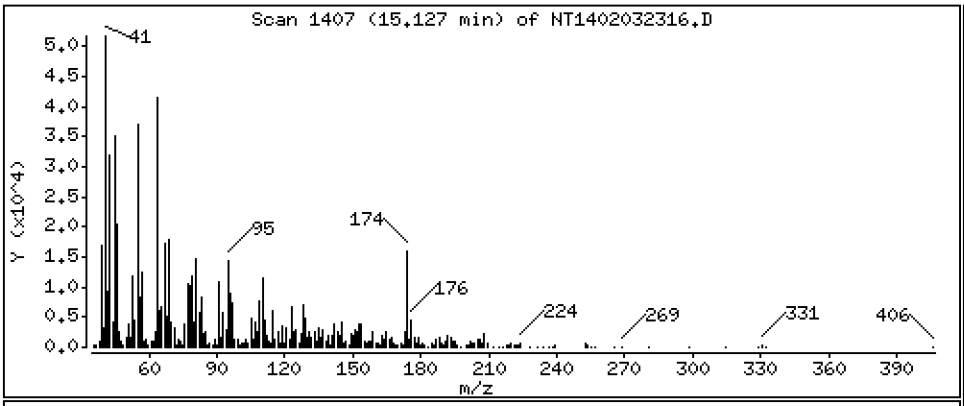
Operator: DSD

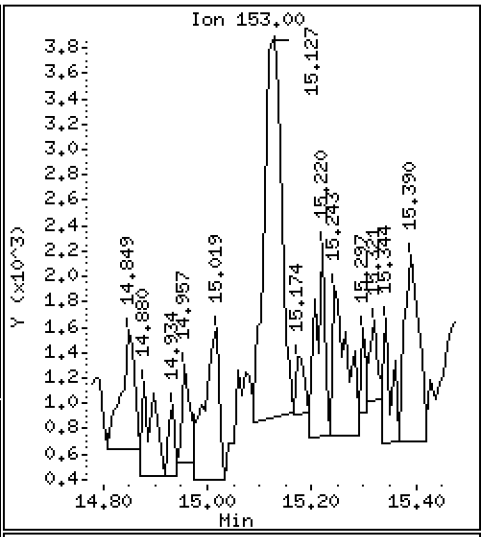
Column phase: ZB-5msi

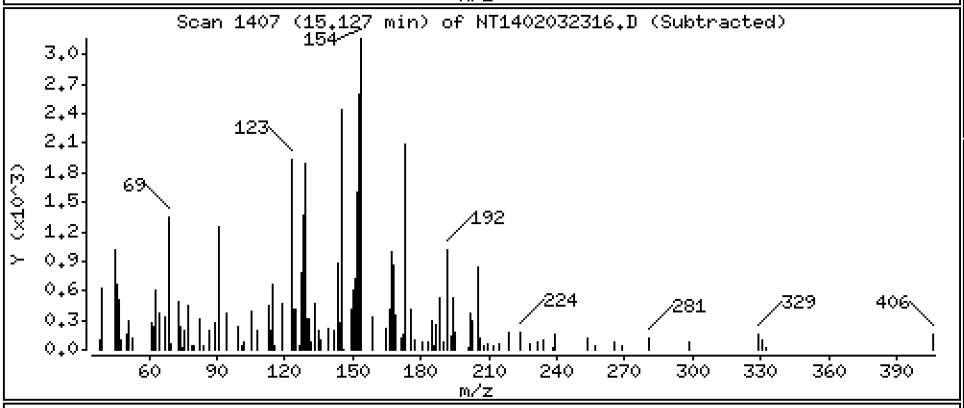
Column diameter: 0.25

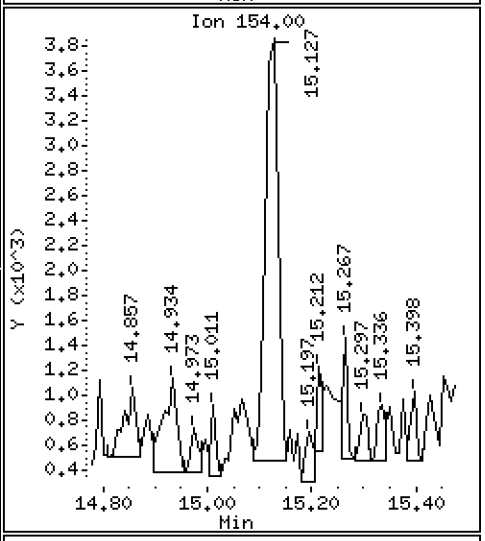
44 Acenaphthene

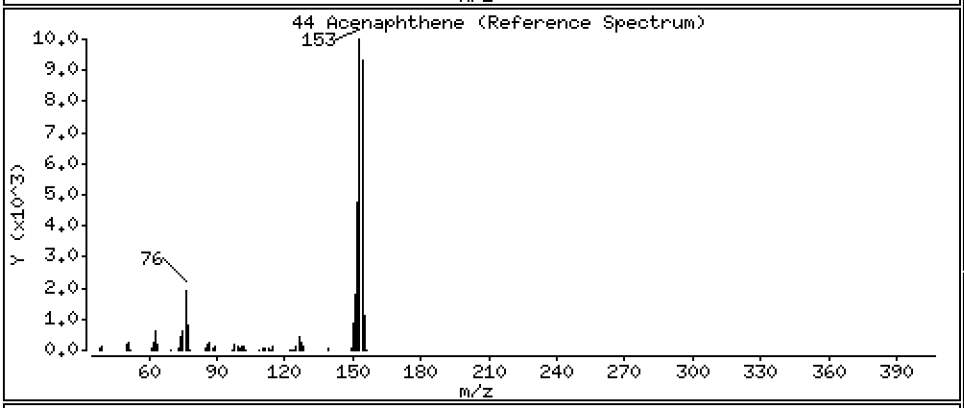
Concentration: 0.1523 ug/mL

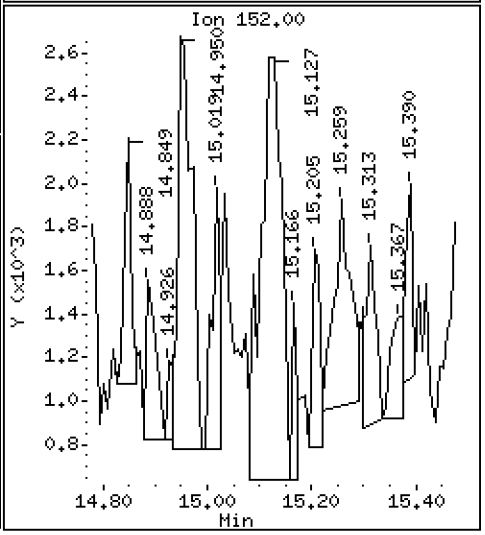


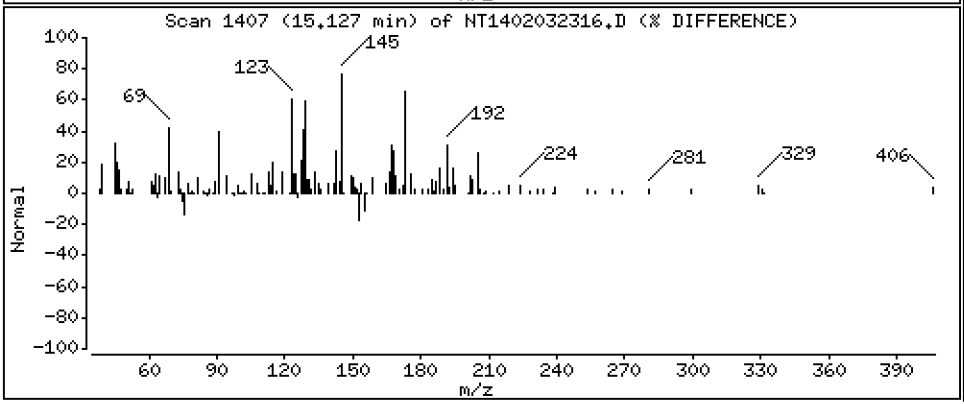












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032316.D

Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

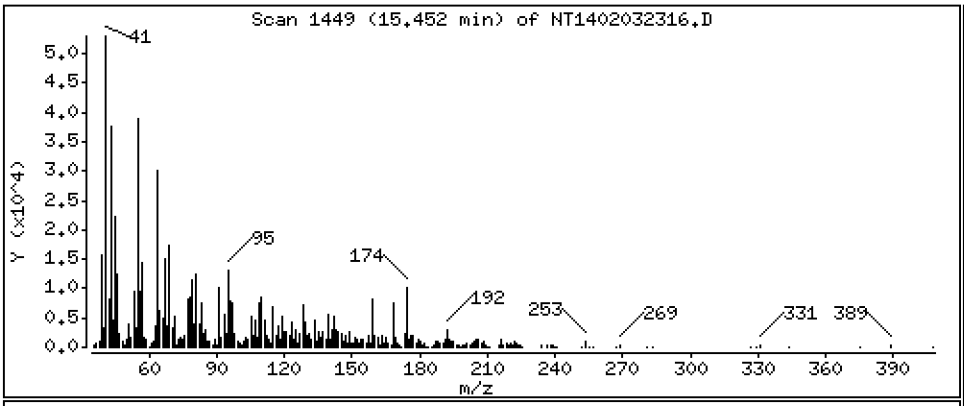
Operator: DSD

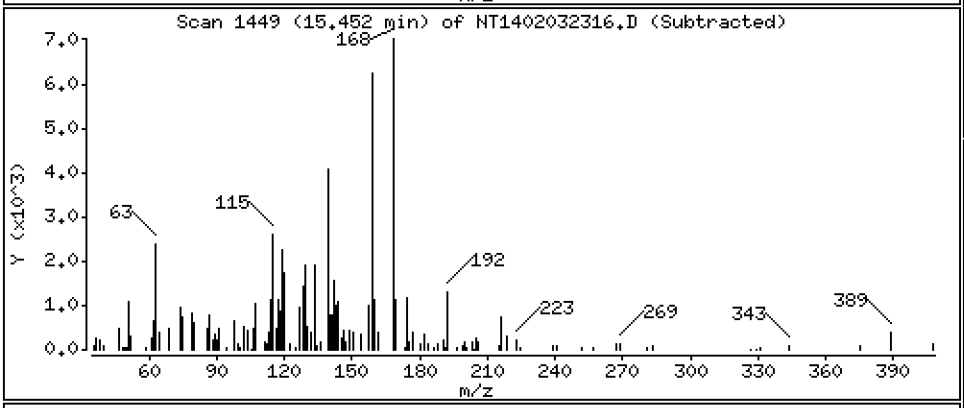
Column phase: ZB-5msi

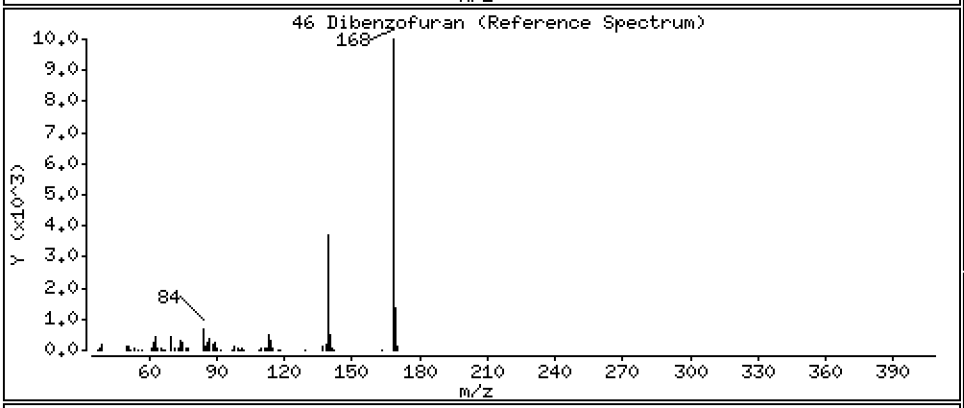
Column diameter: 0.25

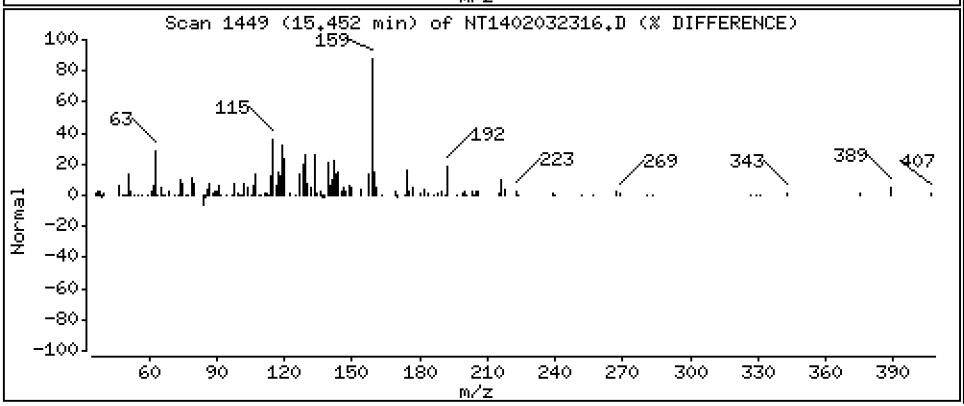
46 Dibenzofuran

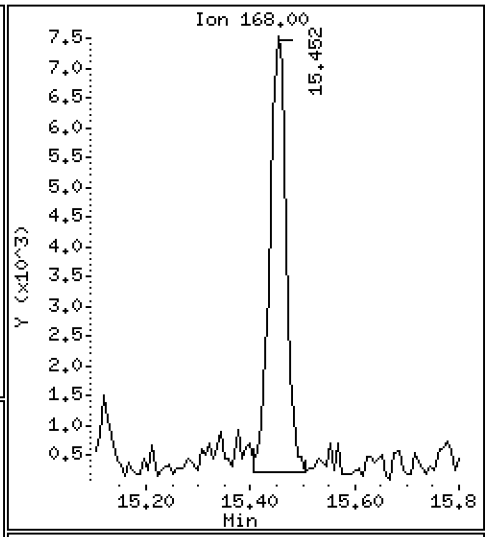
Concentration: 0.2440 ug/mL

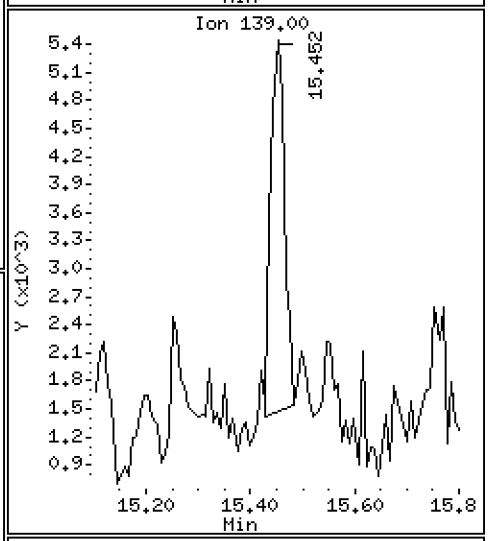


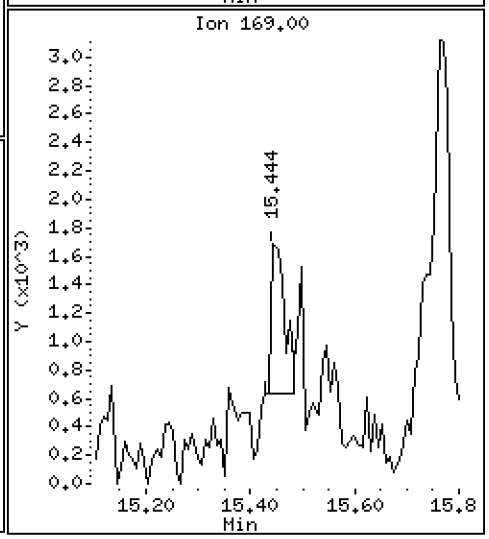












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

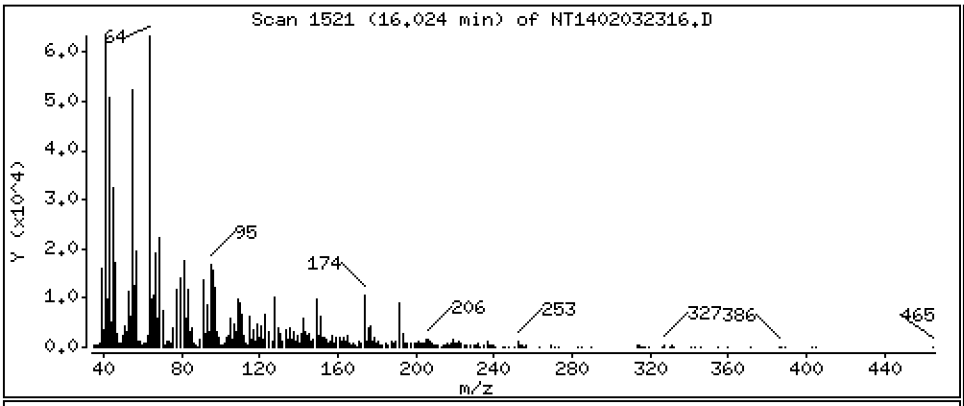
Operator: DSD

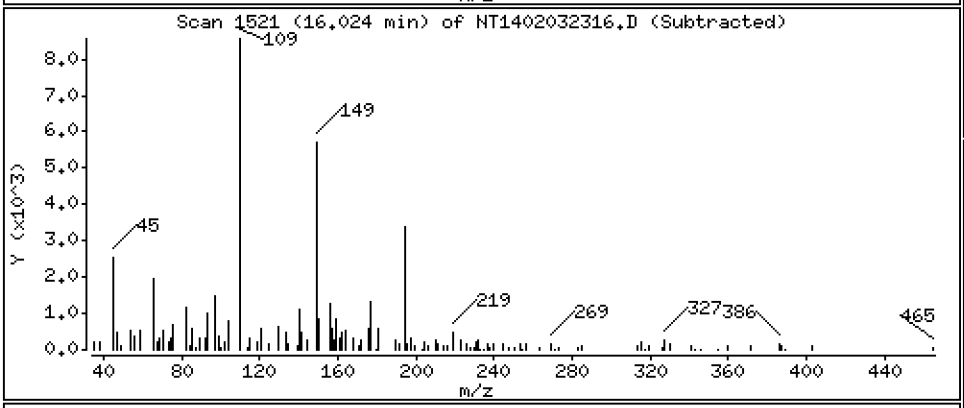
Column phase: ZB-5msi

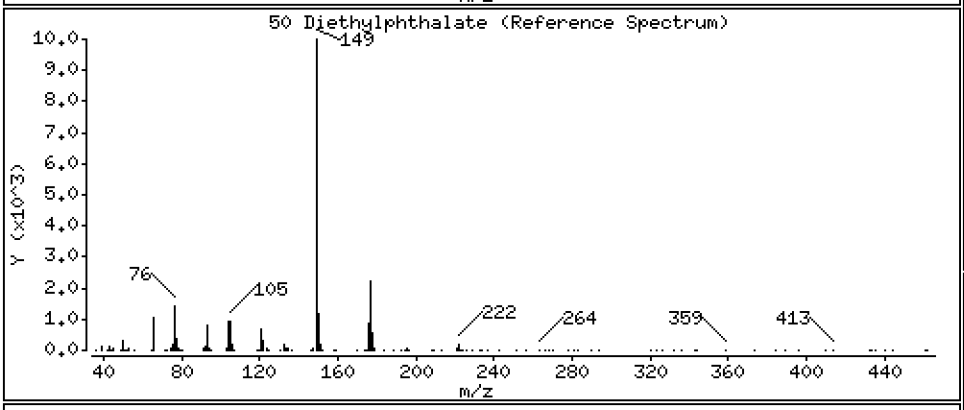
Column diameter: 0.25

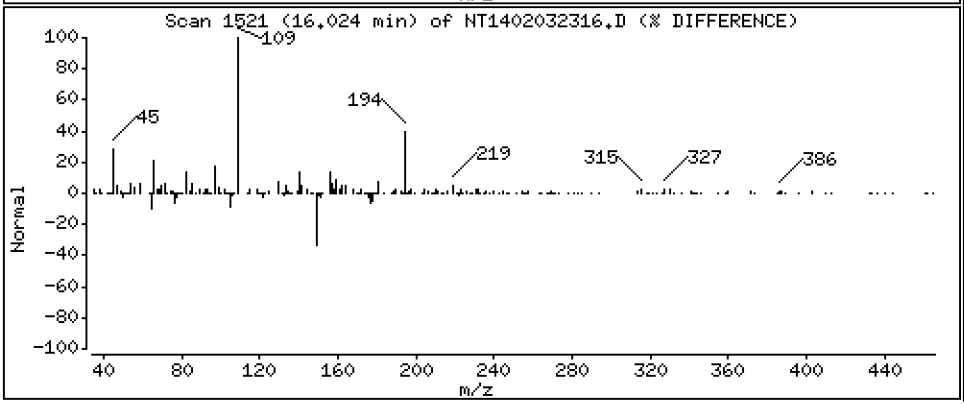
50 Diethylphthalate

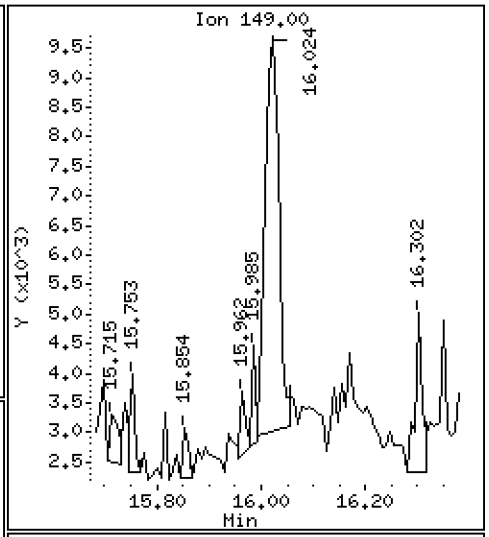
Concentration: 0.1525 ug/mL

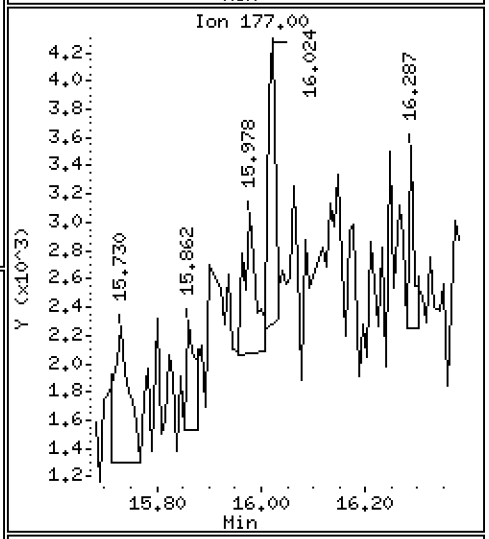


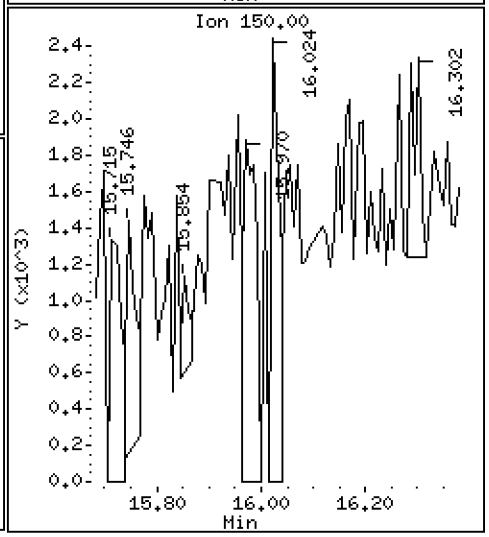












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

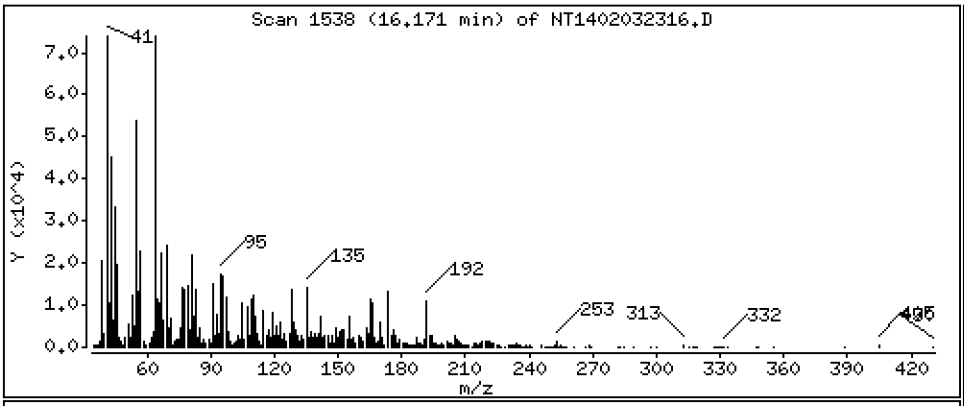
Operator: DSD

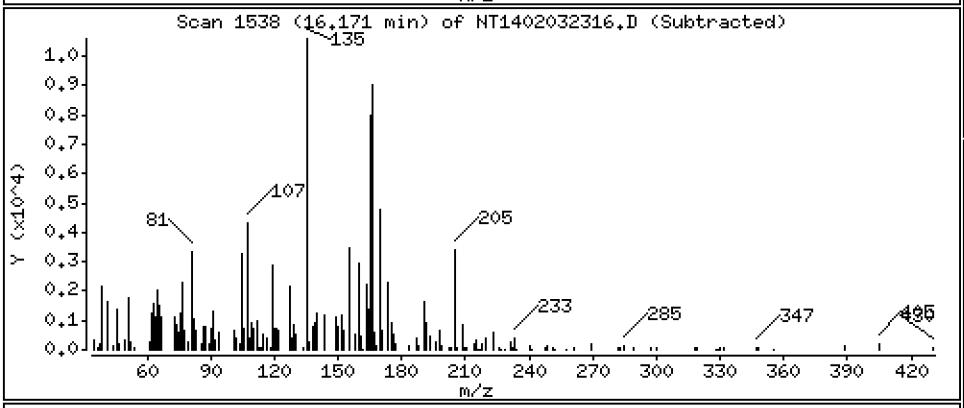
Column phase: ZB-5msi

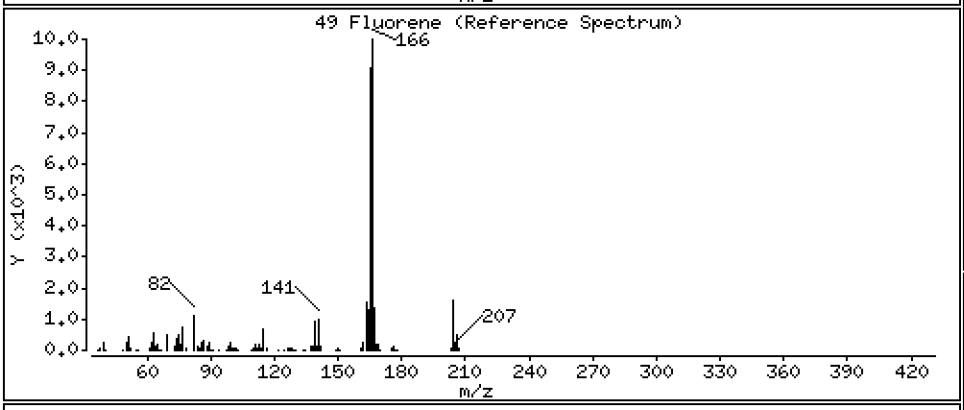
Column diameter: 0.25

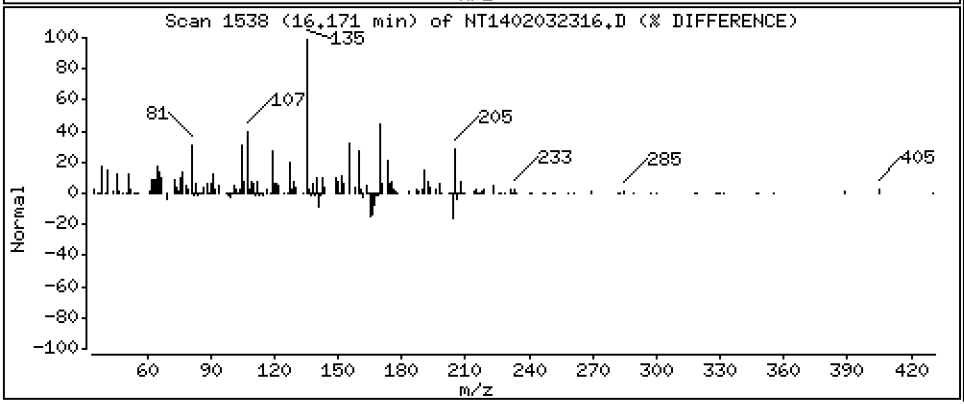
49 Fluorene

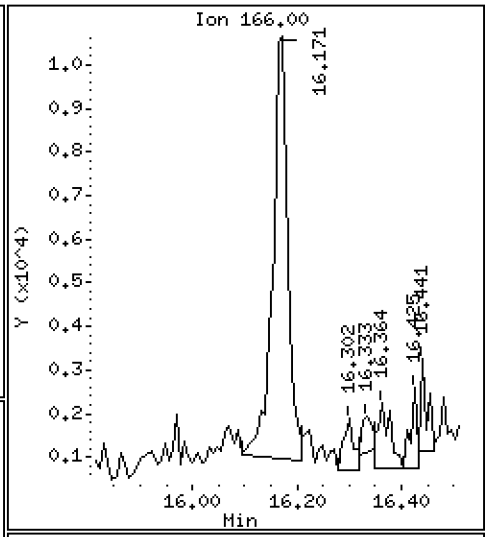
Concentration: 0.2873 ug/mL

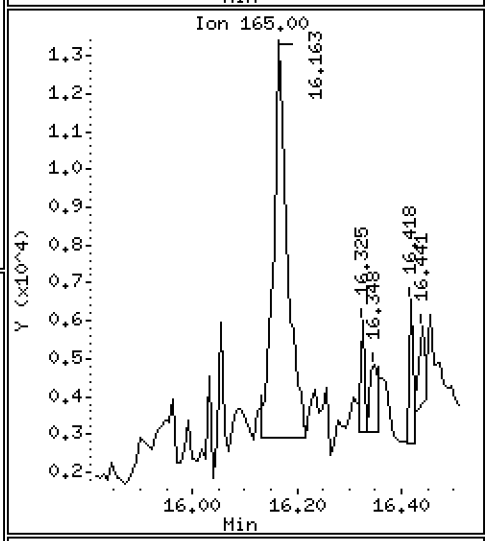


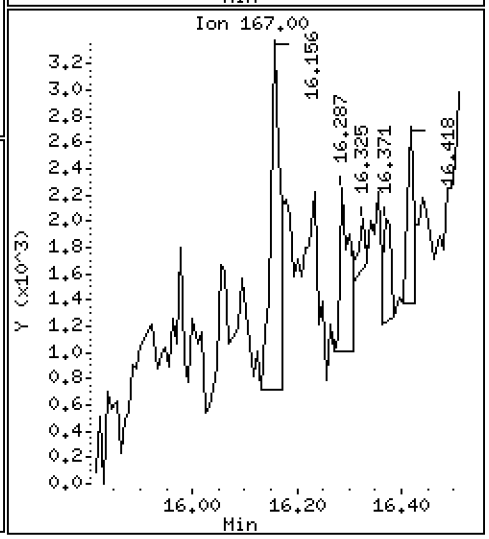












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

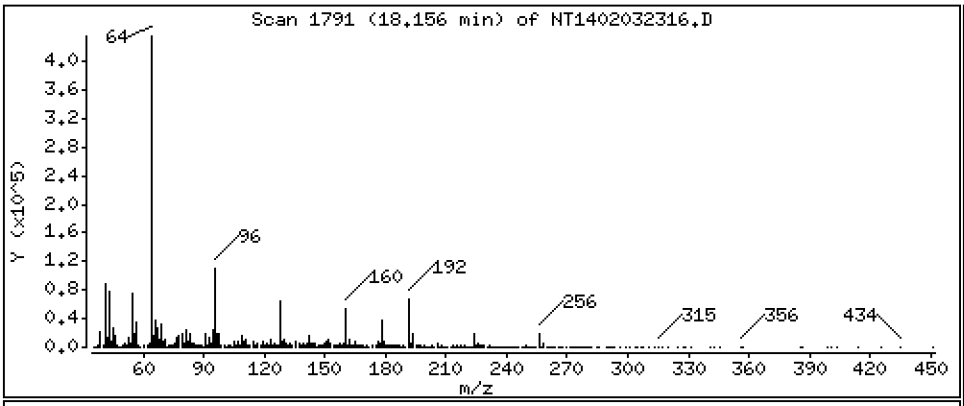
Operator: DSD

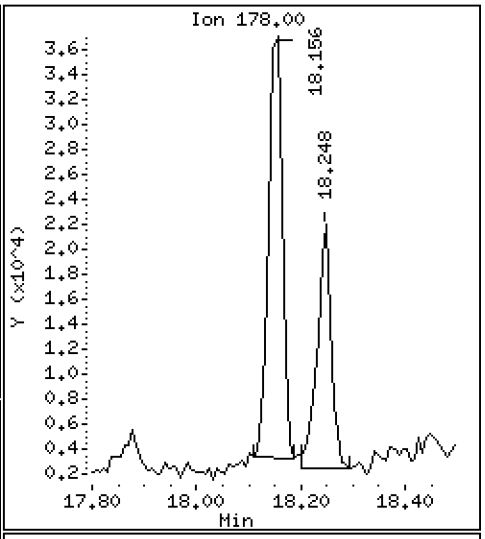
Column phase: ZB-5msi

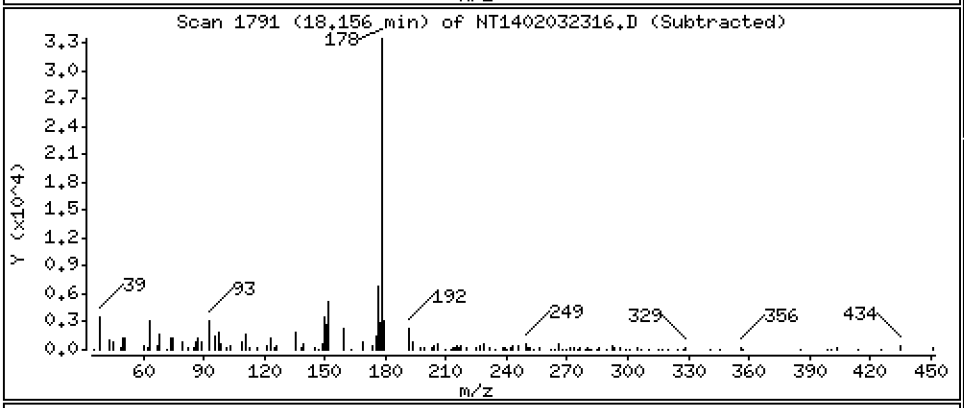
Column diameter: 0.25

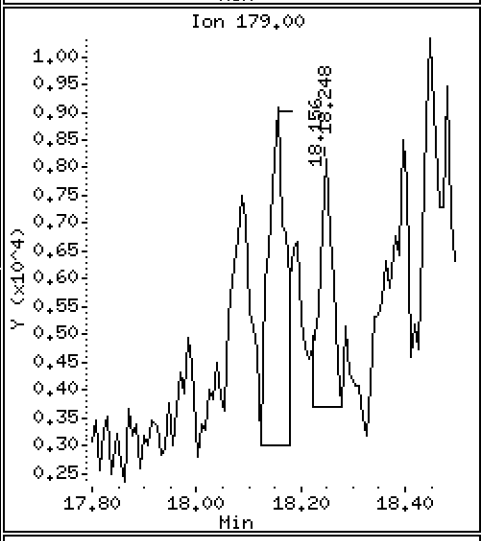
60 Phenanthrene

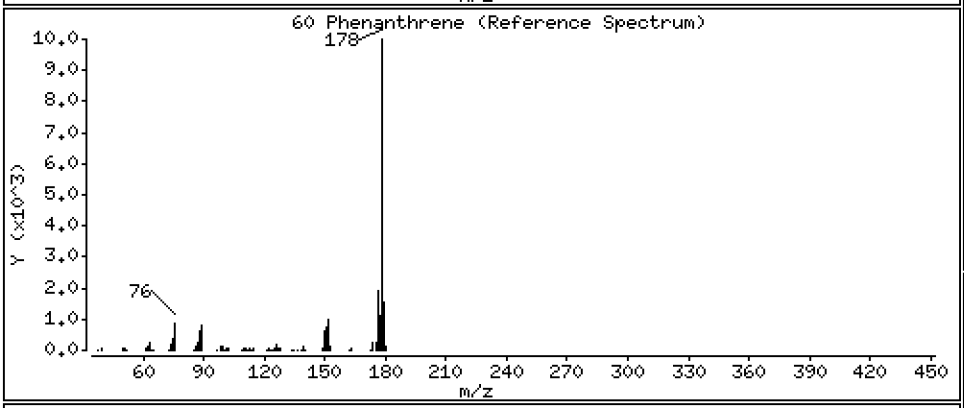
Concentration: 0.7500 ug/mL

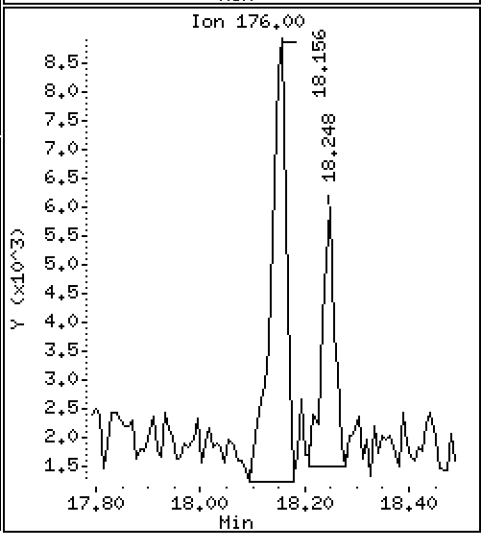


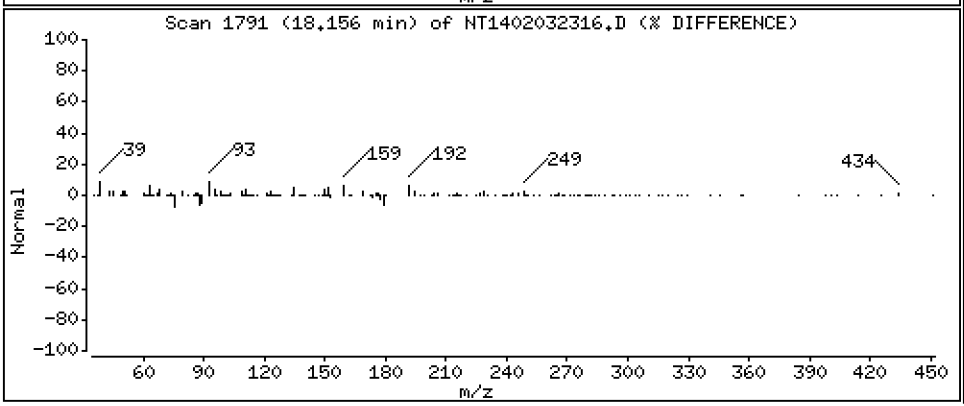












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

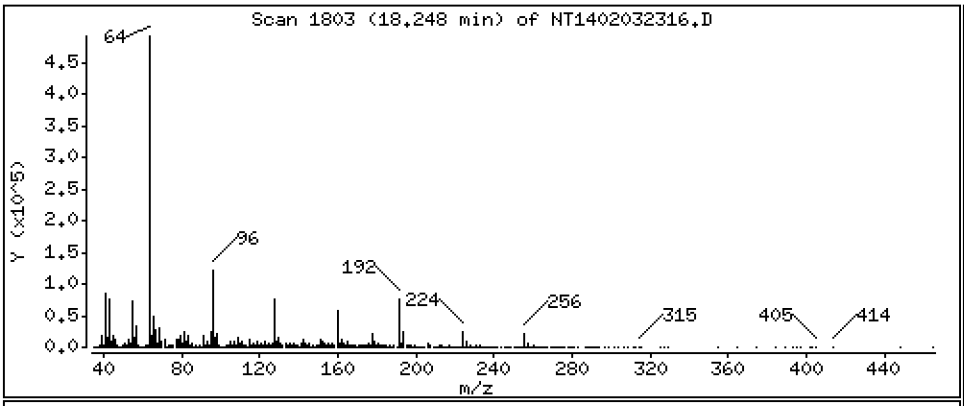
Operator: DSD

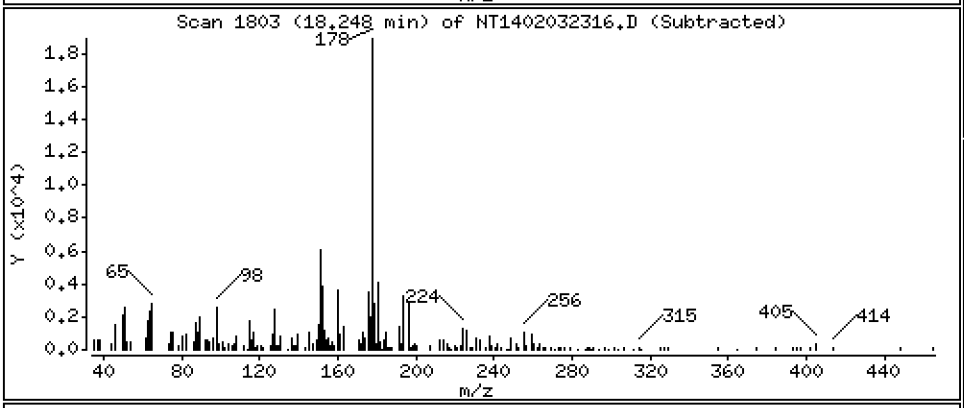
Column phase: ZB-5msi

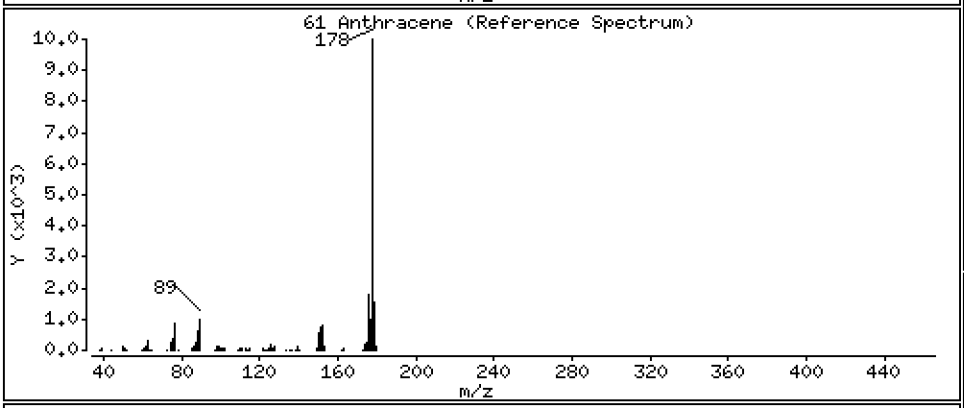
Column diameter: 0.25

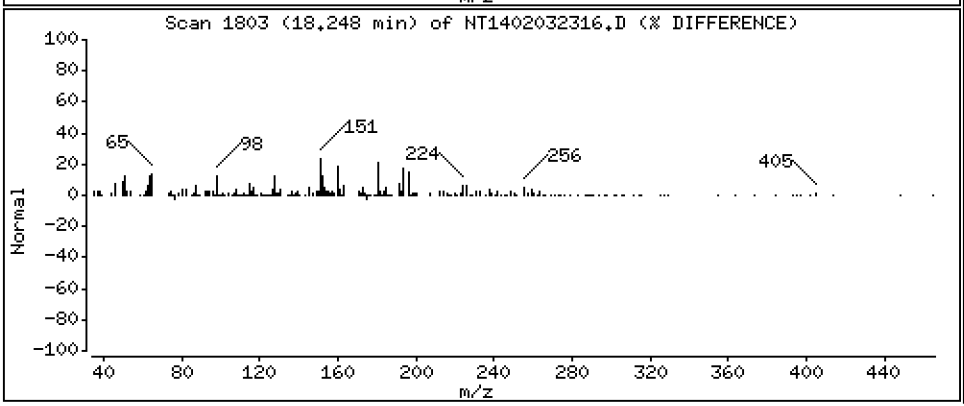
61 Anthracene

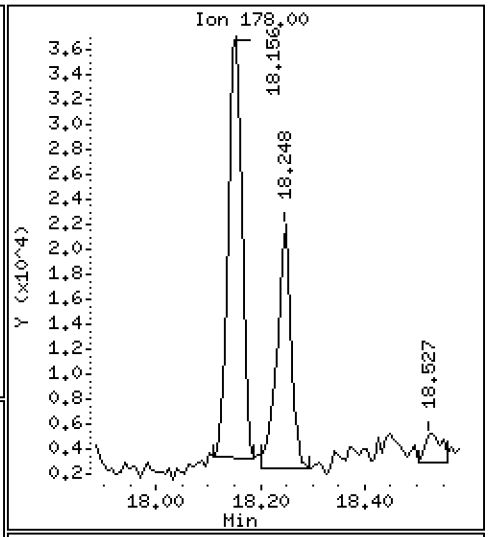
Concentration: 0.4856 ug/mL

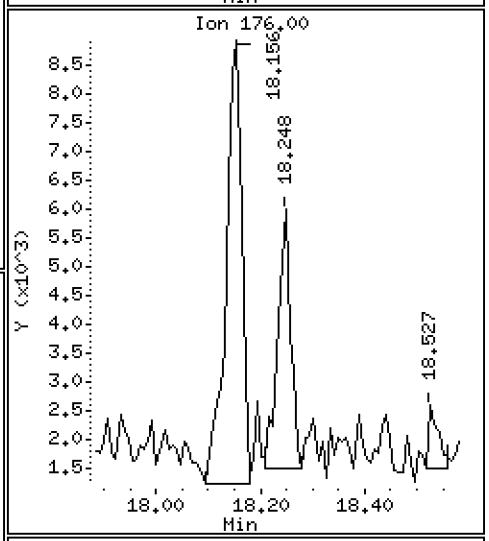


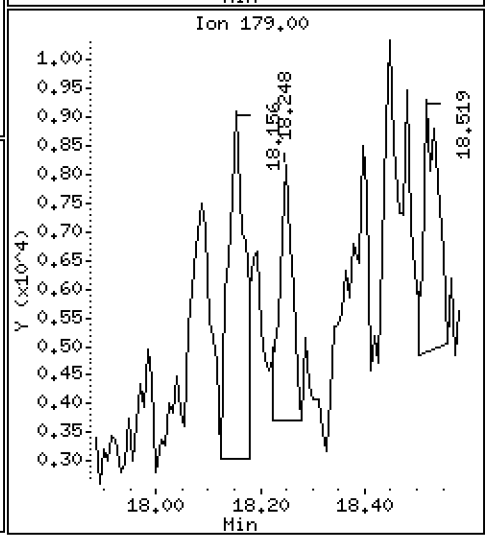












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

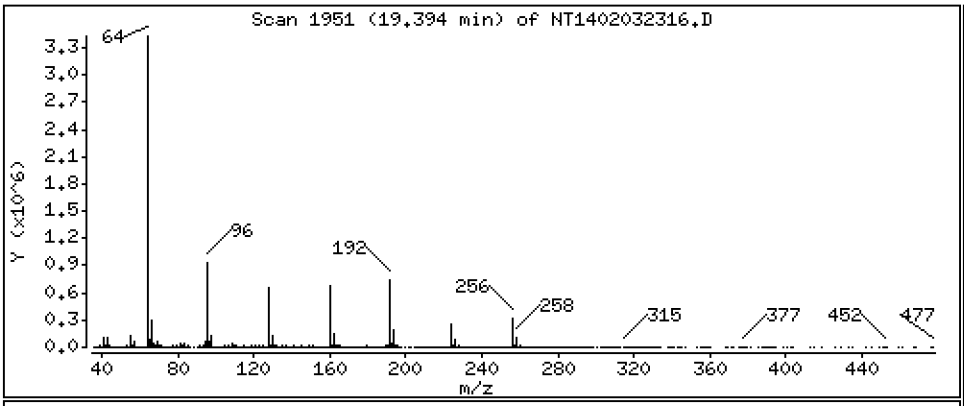
Operator: DSD

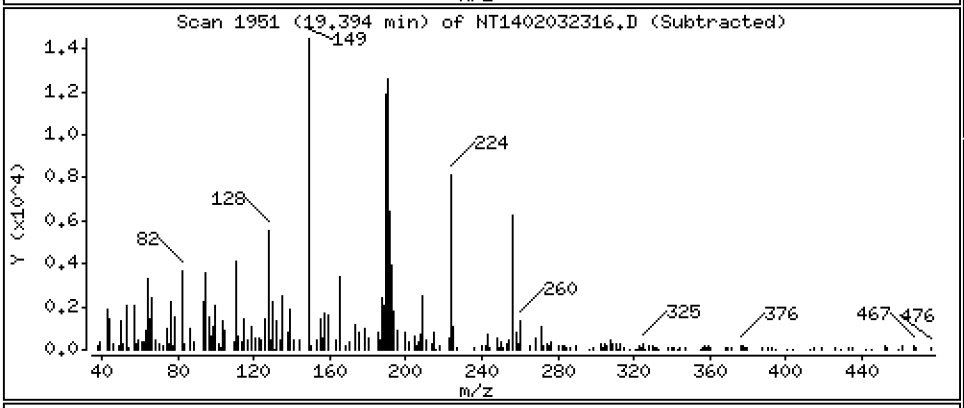
Column phase: ZB-5msi

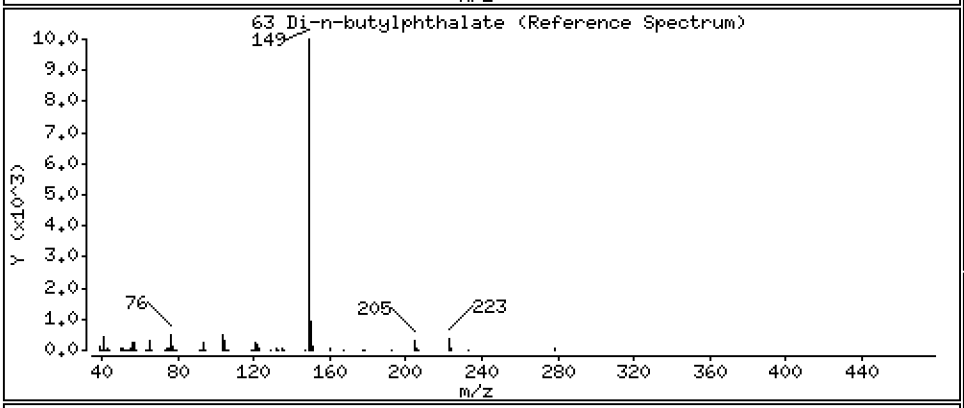
Column diameter: 0.25

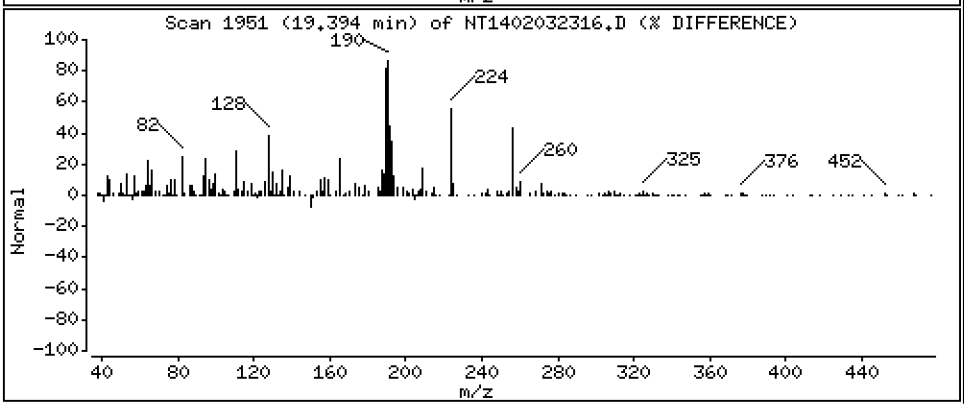
63 Di-n-butylphthalate

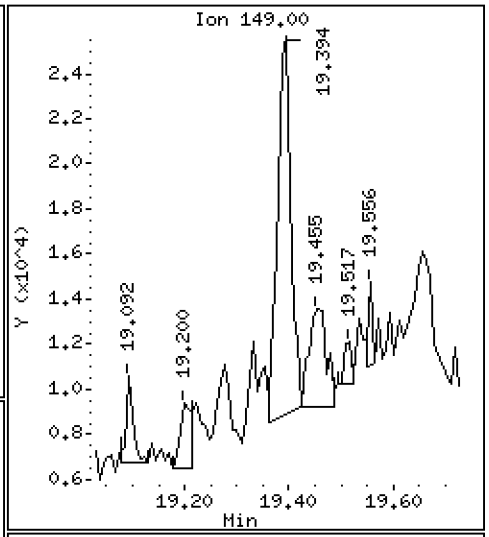
Concentration: 0.2687 ug/mL

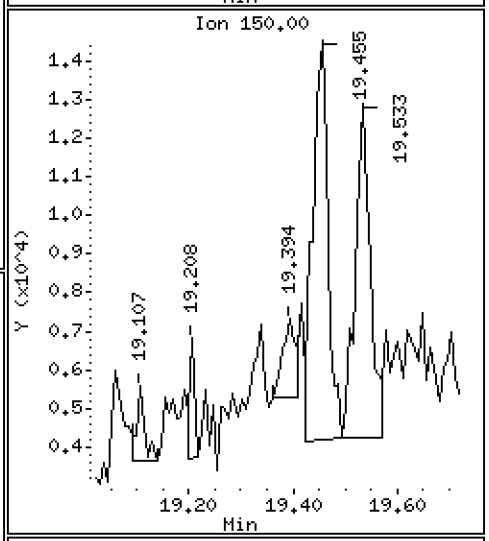


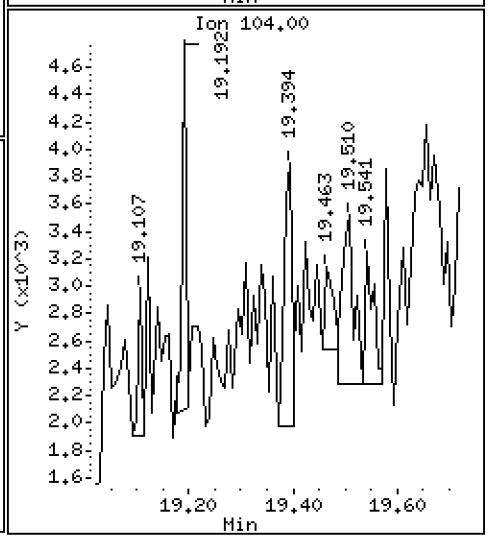












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032316.D

Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

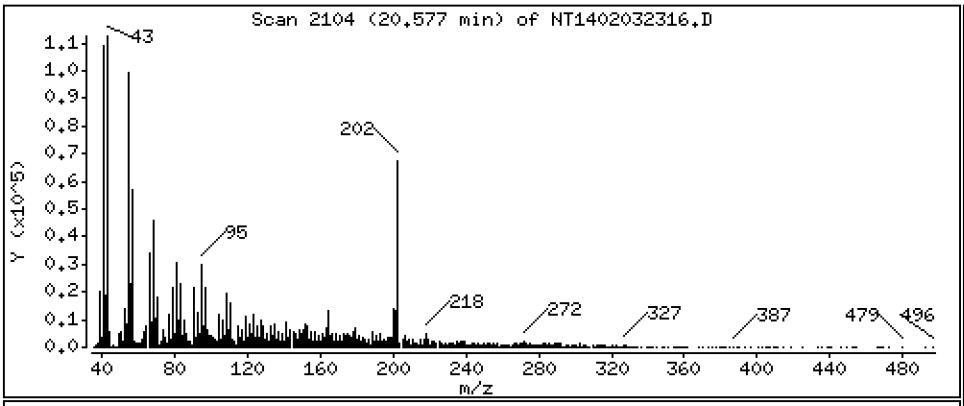
Operator: DSD

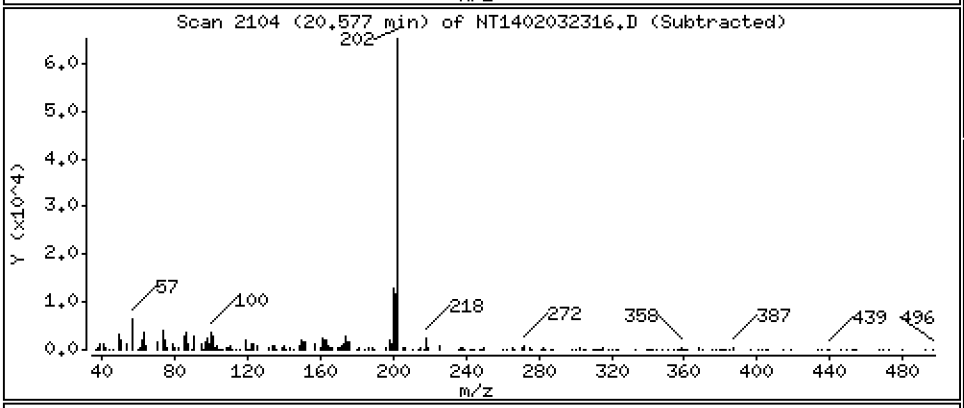
Column phase: ZB-5msi

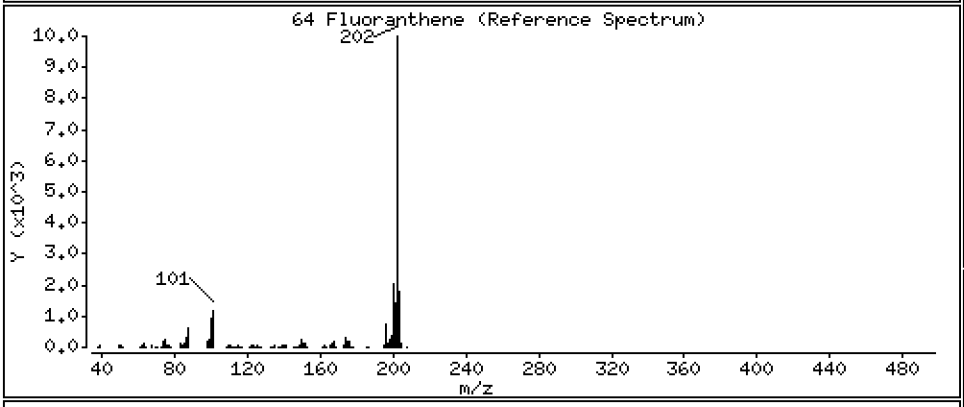
Column diameter: 0.25

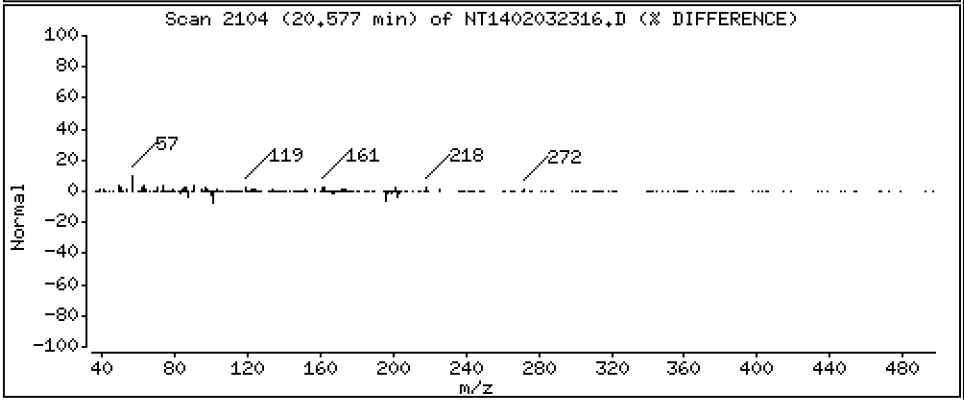
64 Fluoranthene

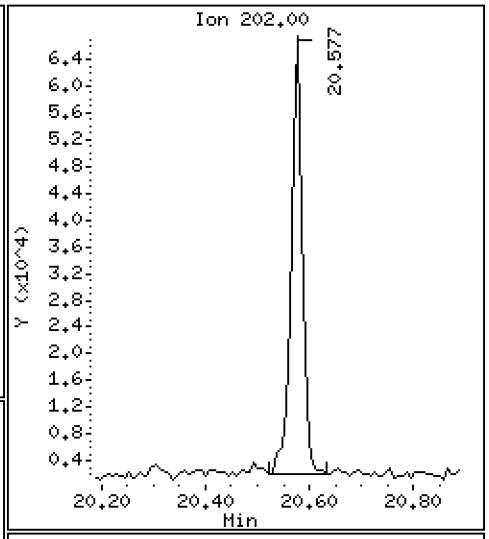
Concentration: 2.026 ug/mL

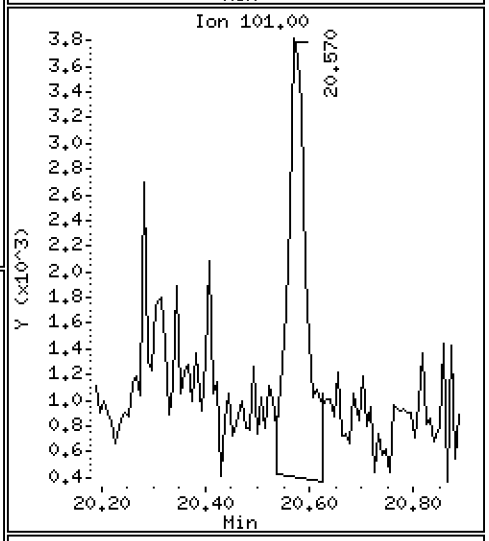


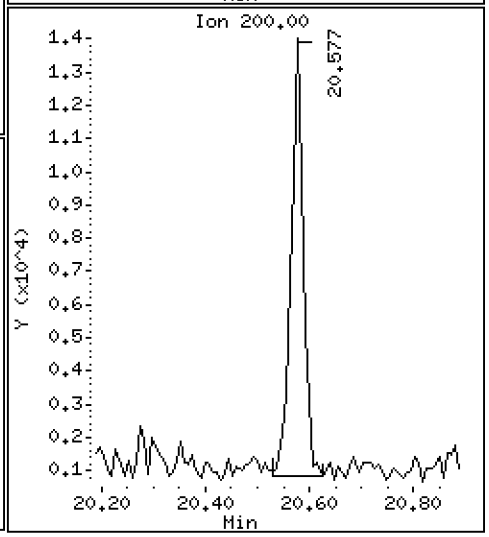












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

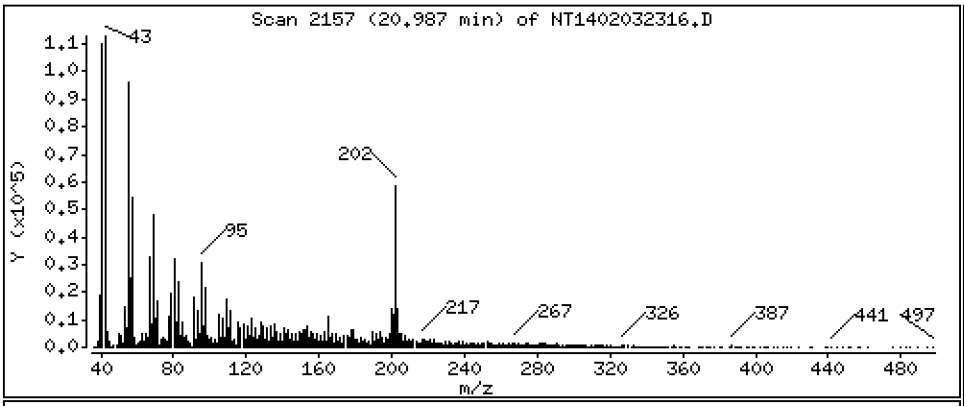
Operator: DSD

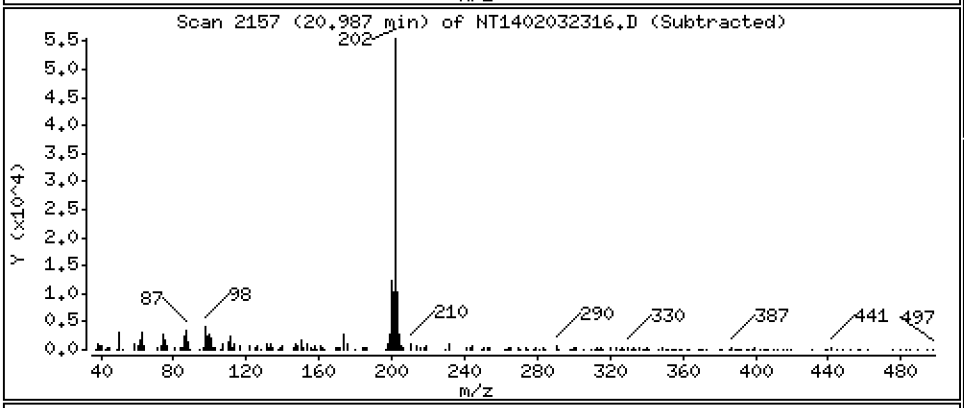
Column phase: ZB-5msi

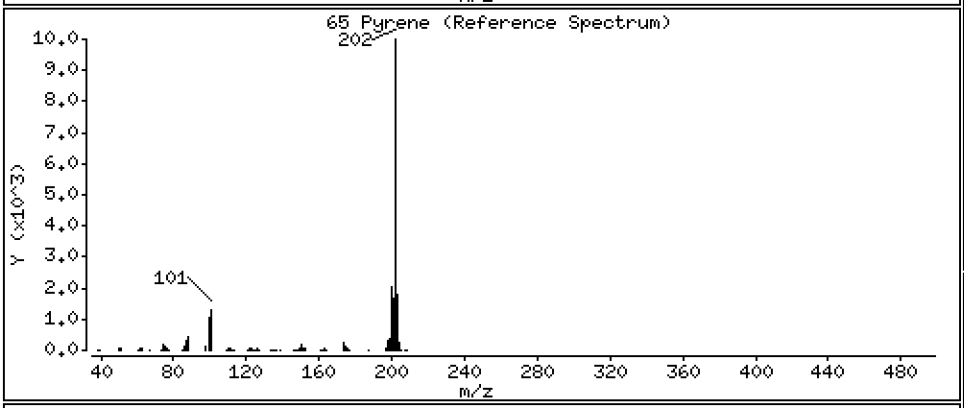
Column diameter: 0.25

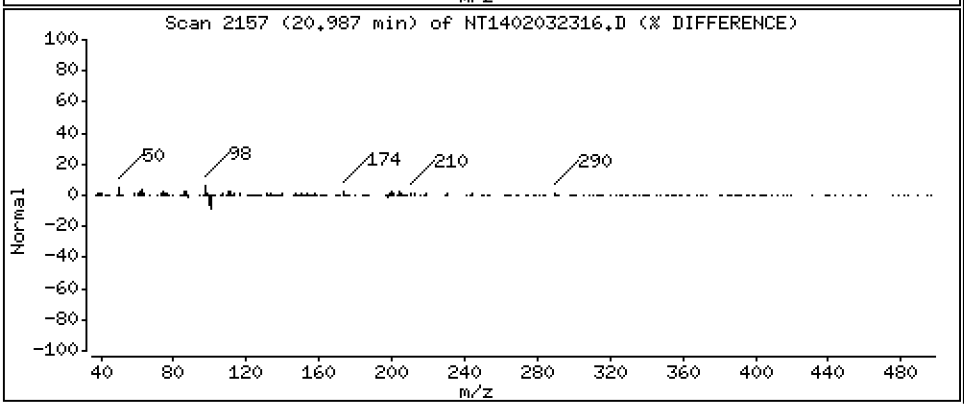
65 Pyrene

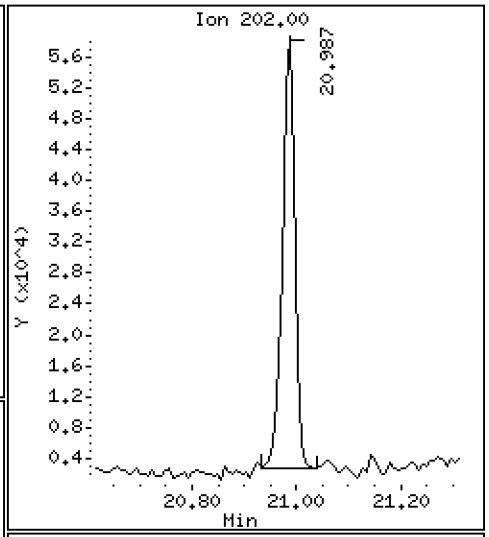
Concentration: 1.894 ug/mL

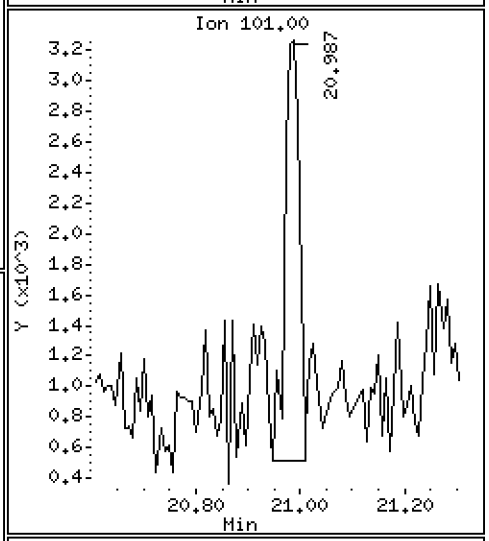


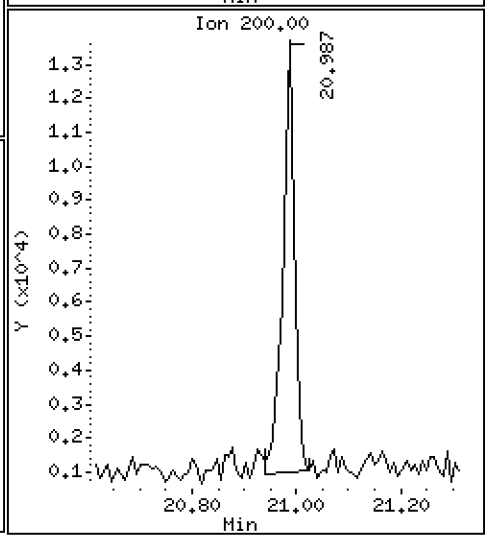












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

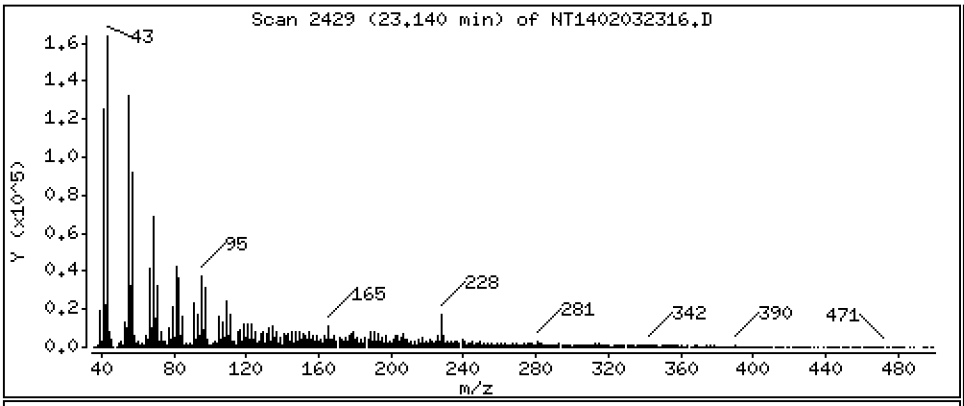
Operator: DSD

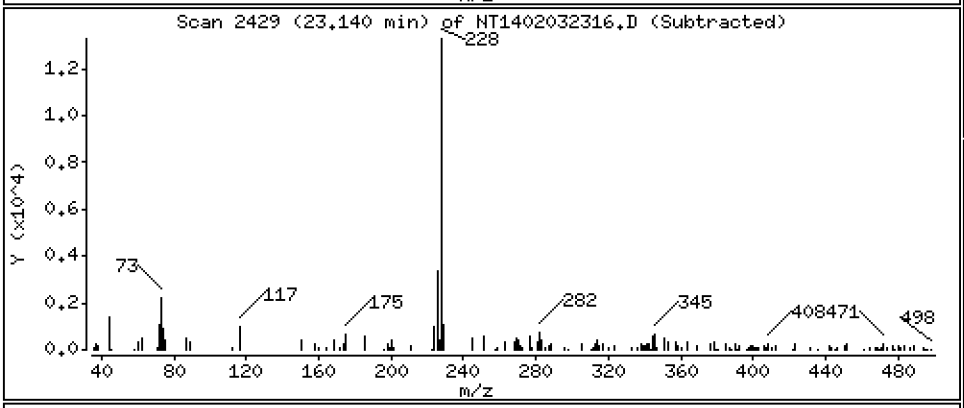
Column phase: ZB-5msi

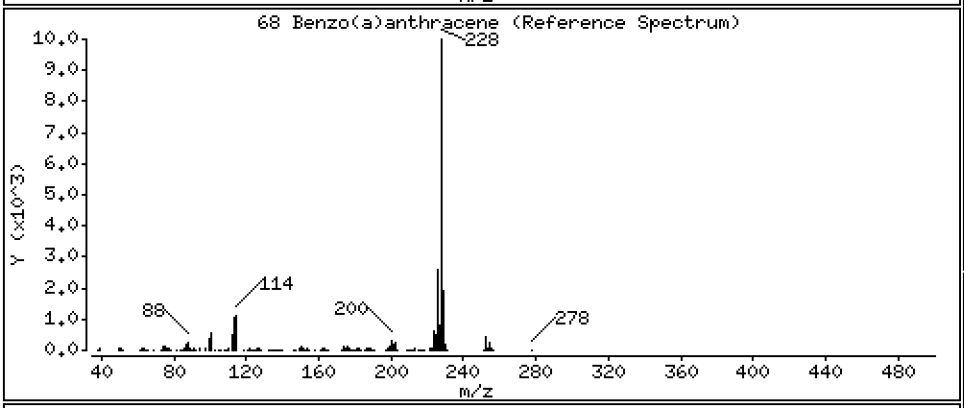
Column diameter: 0.25

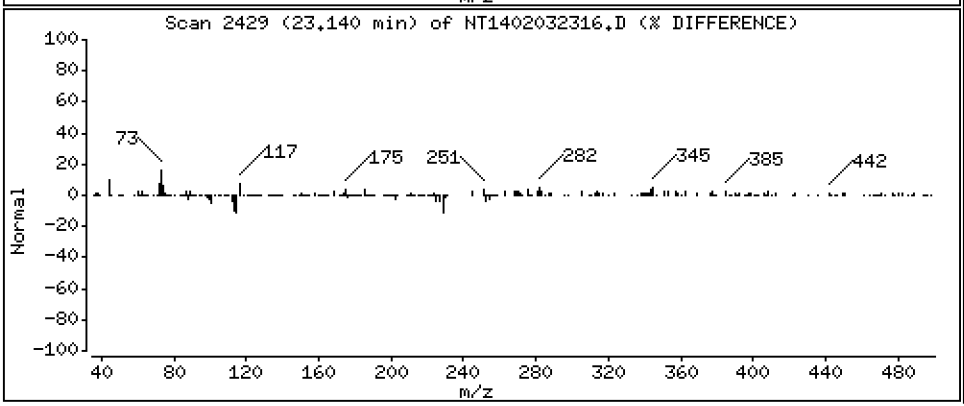
68 Benzo(a)anthracene

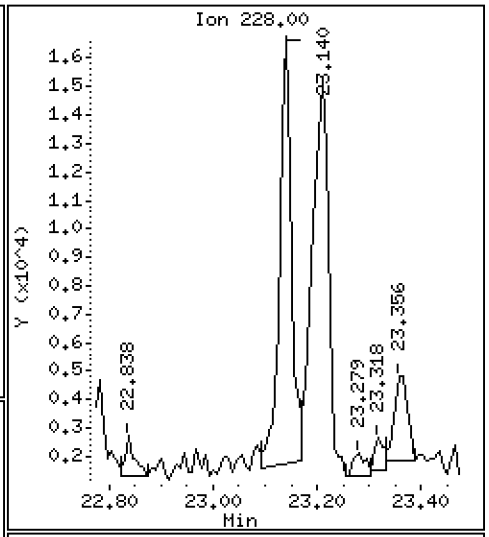
Concentration: 0.5178 ug/mL

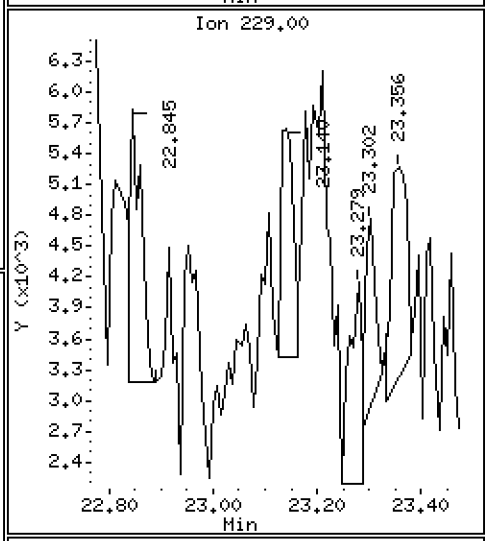


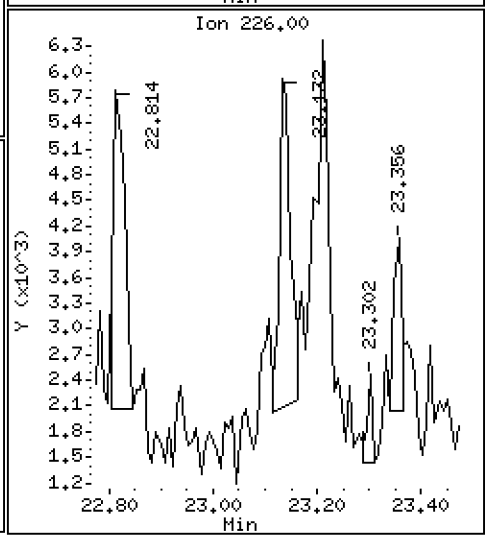












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

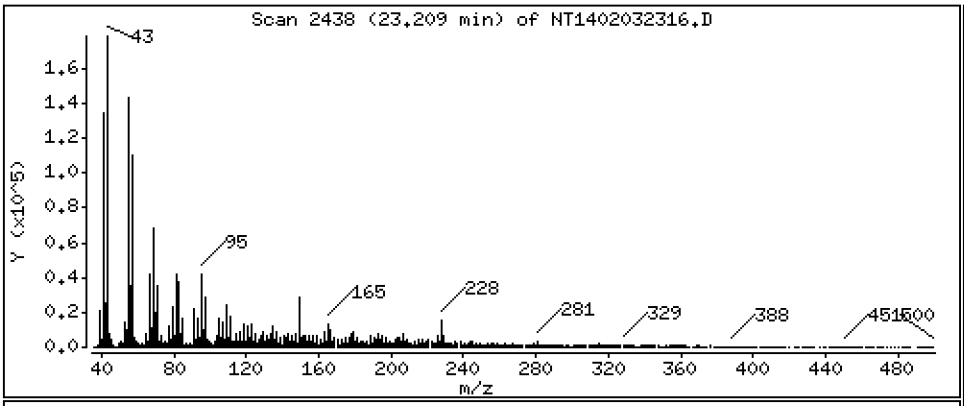
Operator: DSD

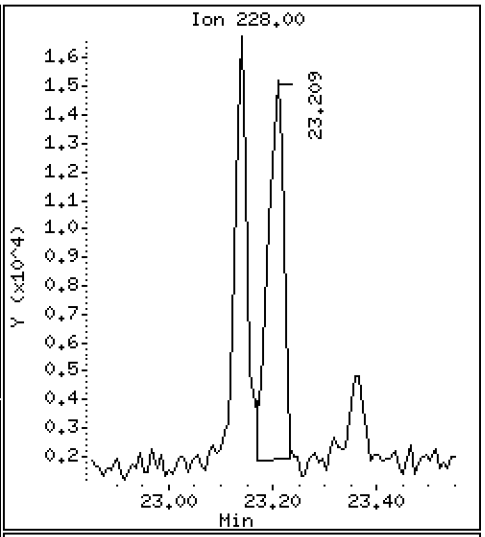
Column phase: ZB-5msi

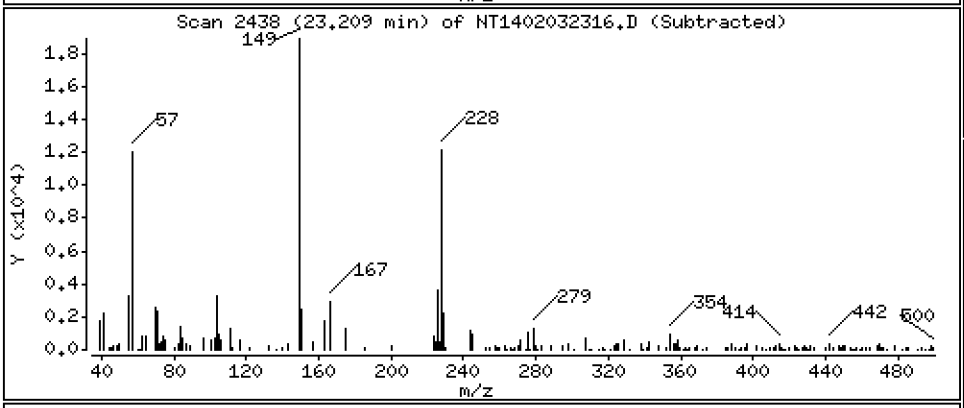
Column diameter: 0.25

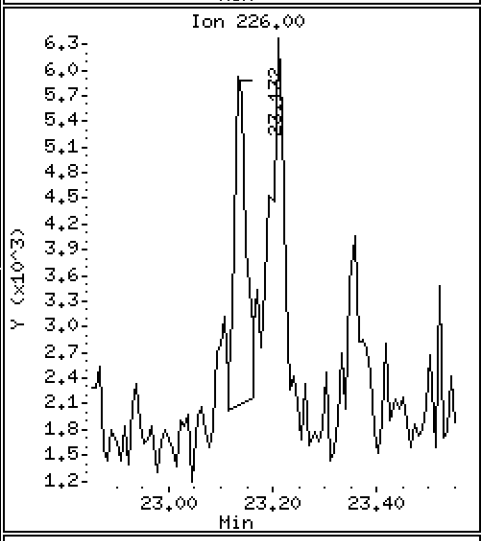
71 Chrysene

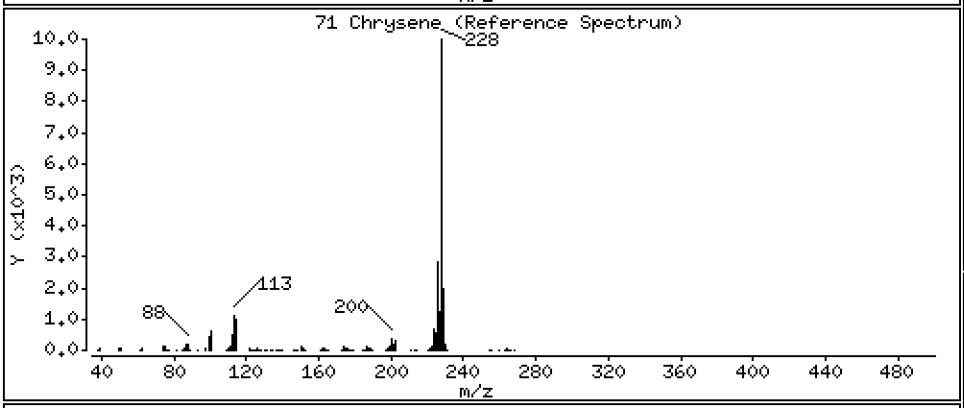
Concentration: 0.6171 ug/mL

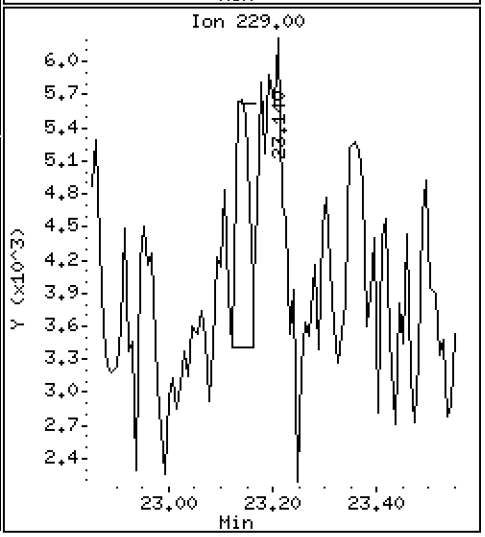


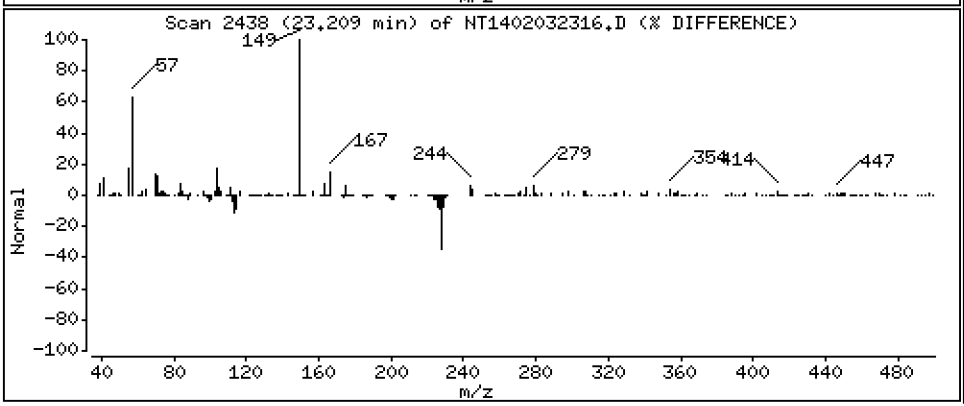












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

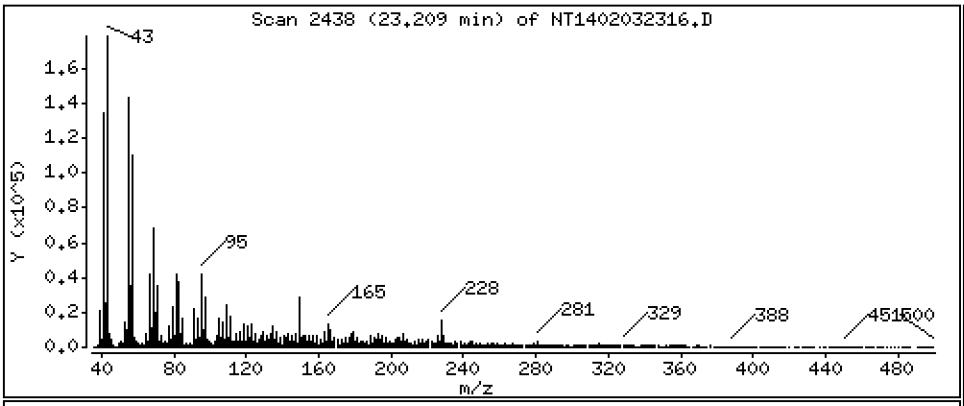
Operator: DSD

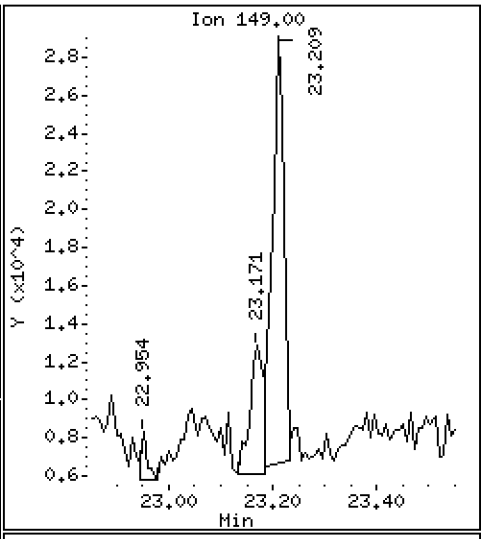
Column phase: ZB-5msi

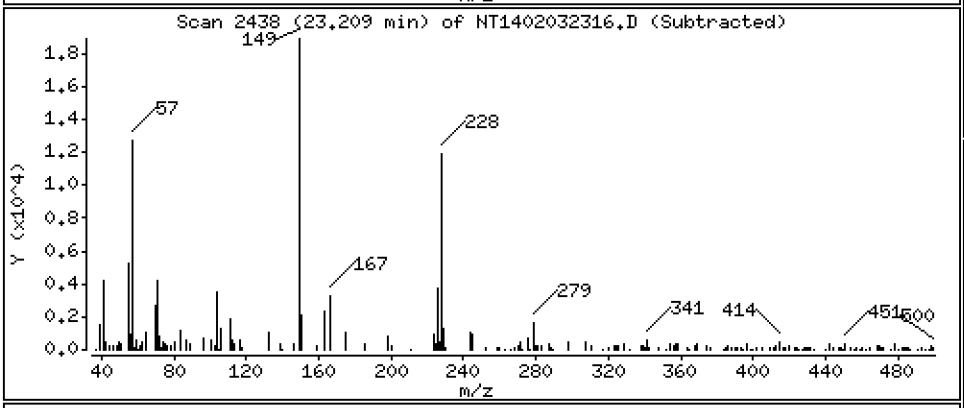
Column diameter: 0.25

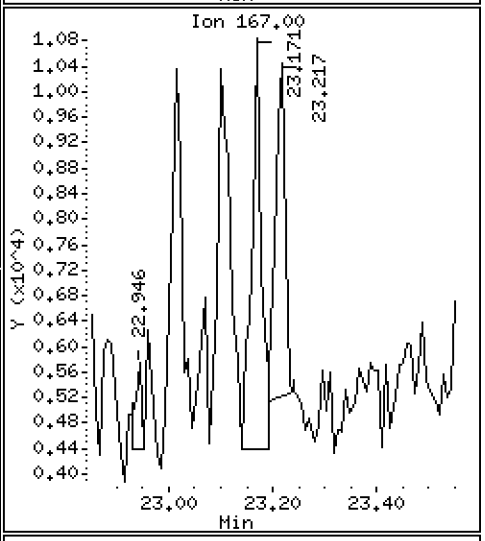
72 bis(2-Ethylhexyl)phthalate

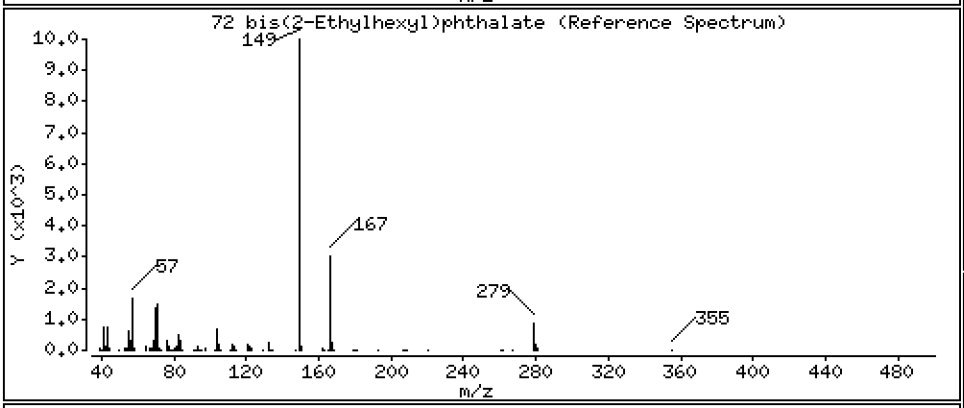
Concentration: 1.018 ug/mL

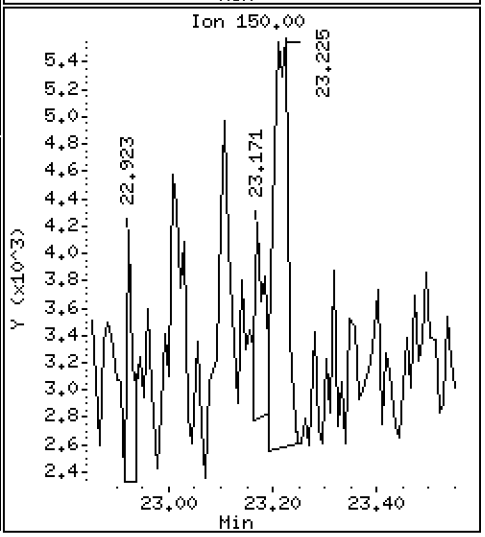


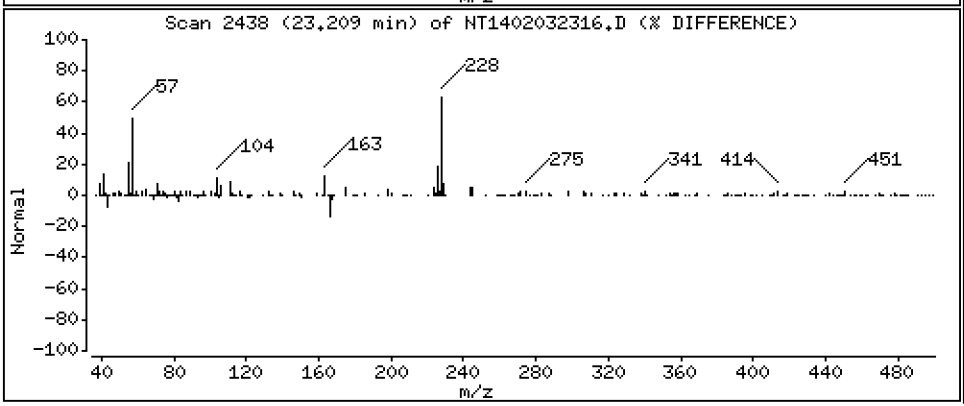












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

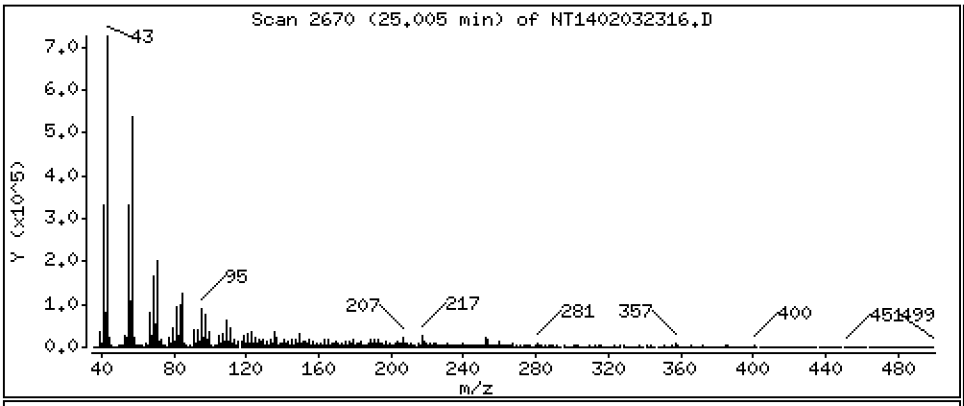
Operator: DSD

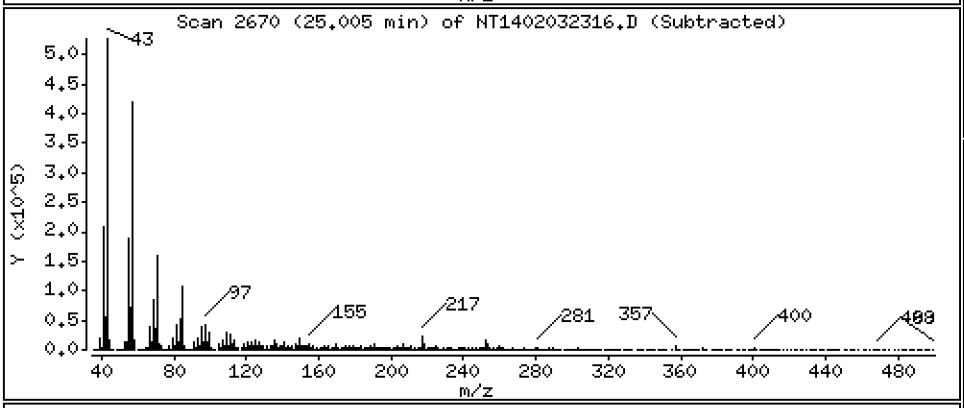
Column phase: ZB-5msi

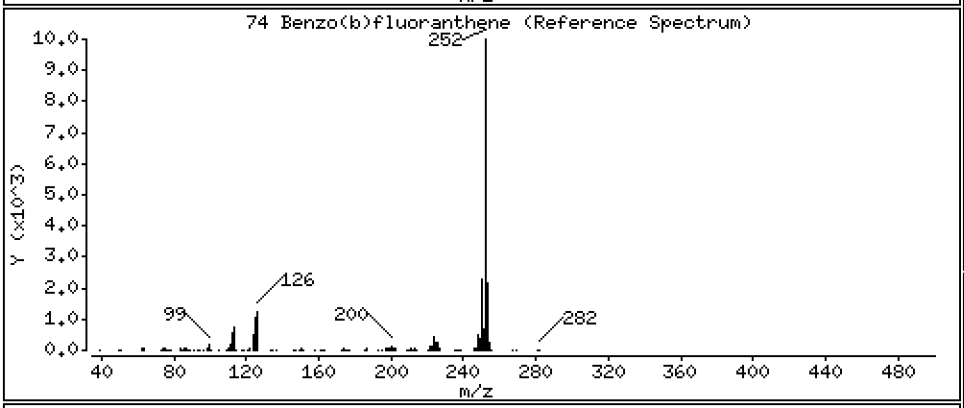
Column diameter: 0.25

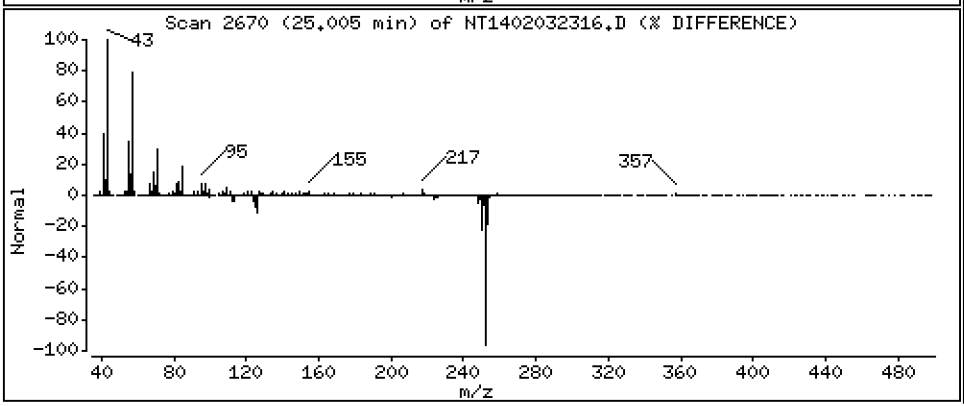
74 Benzo(b)fluoranthene

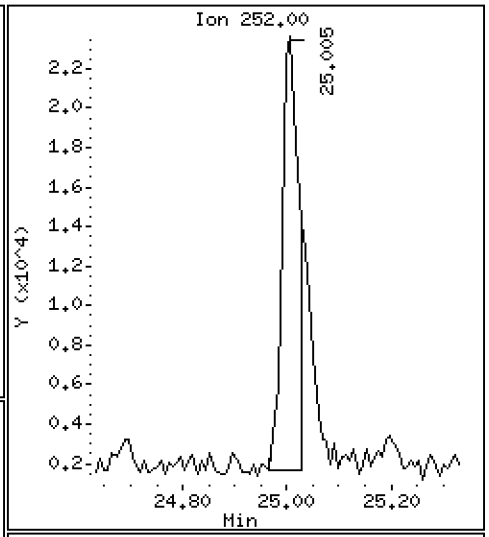
Concentration: 0.9144 ug/mL

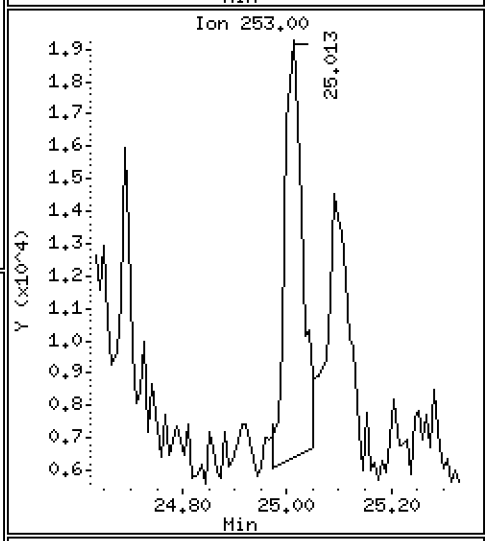


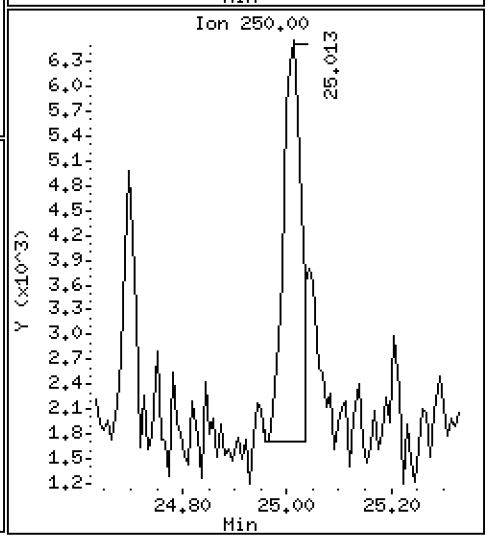












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

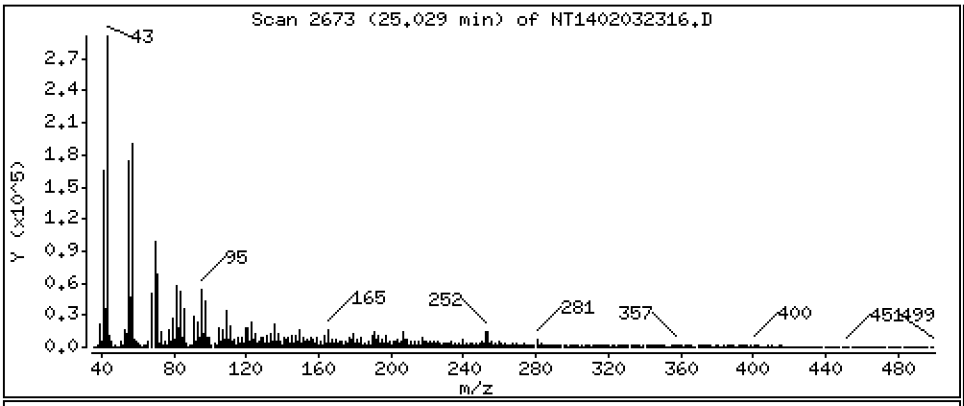
Operator: DSD

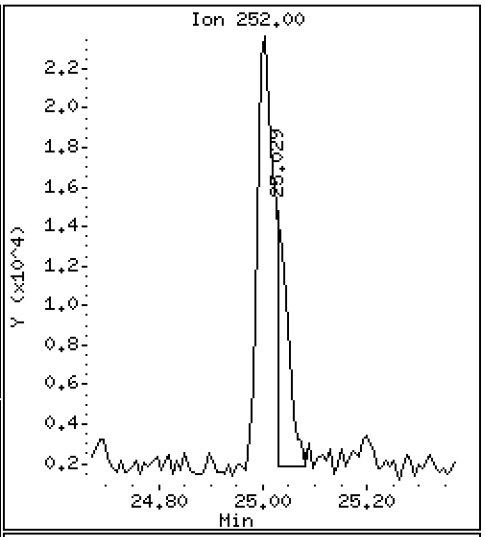
Column phase: ZB-5msi

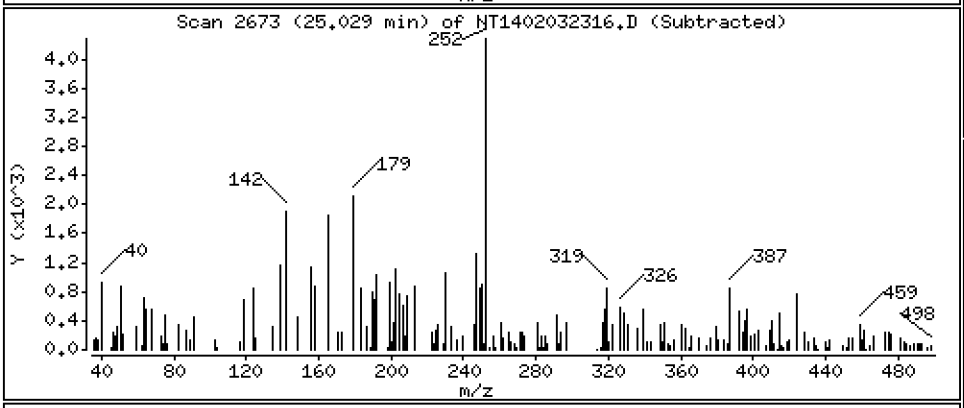
Column diameter: 0.25

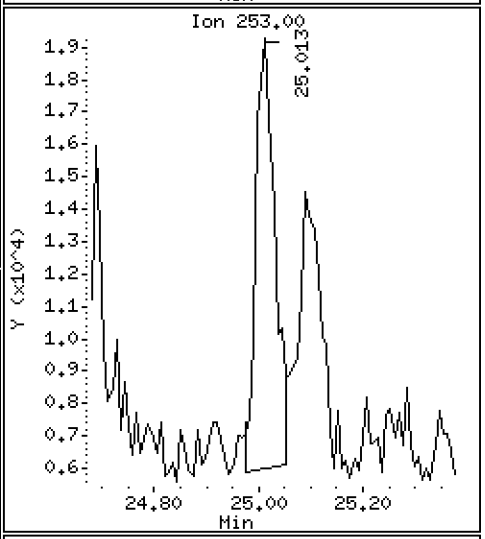
75 Benzo(k)fluoranthene

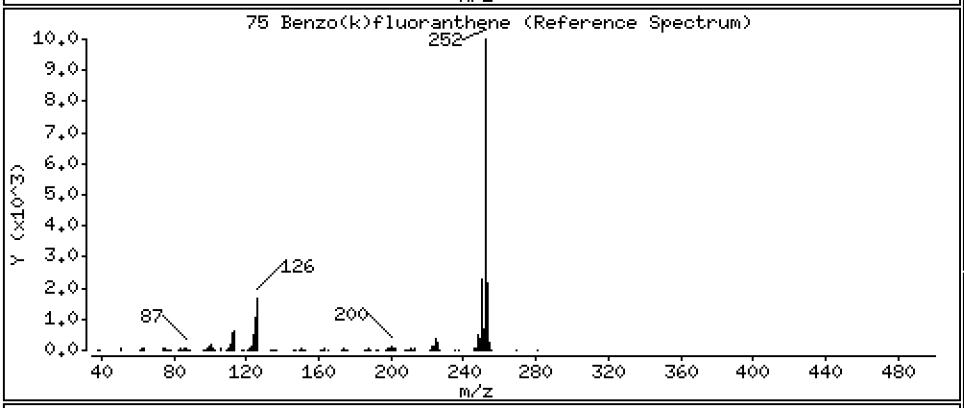
Concentration: 0.3569 ug/mL

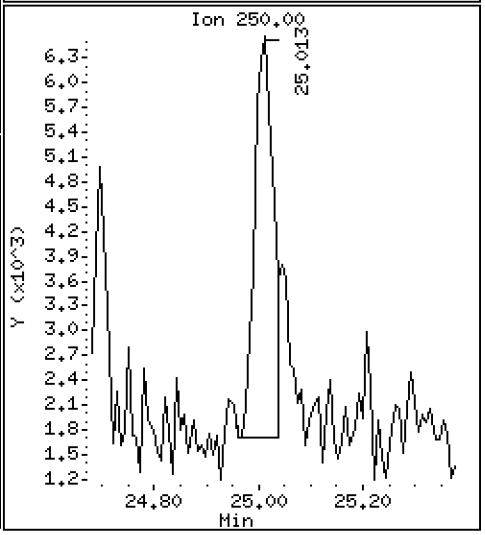


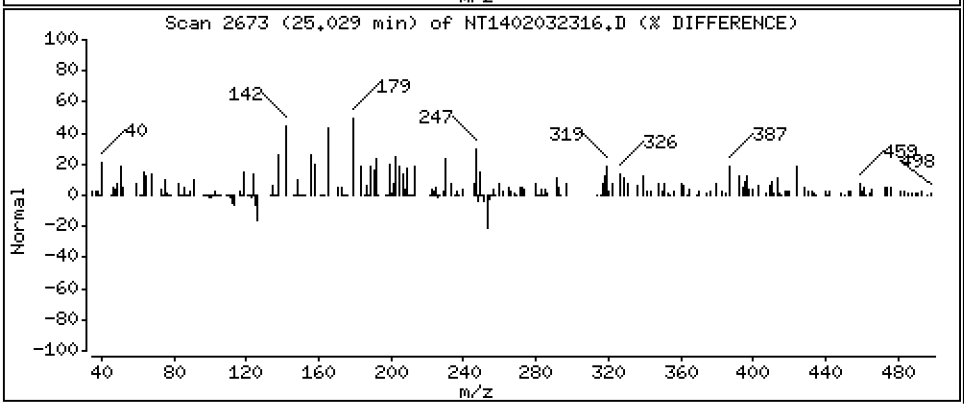












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Page 24

Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

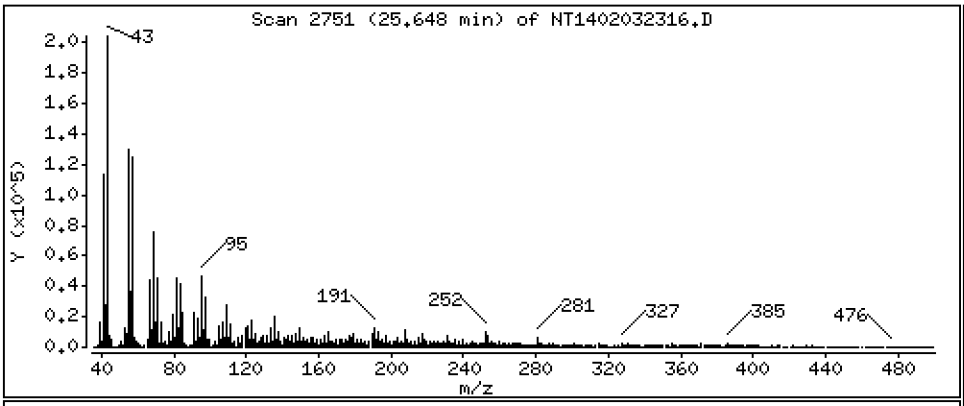
Operator: DSD

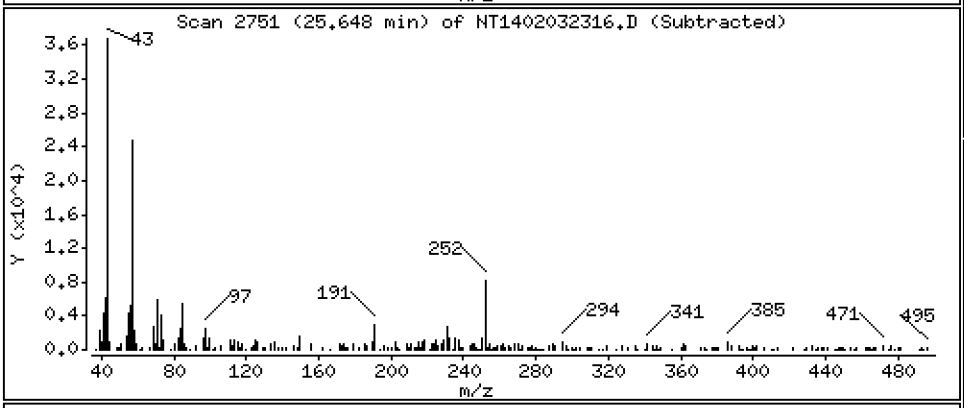
Column phase: ZB-5msi

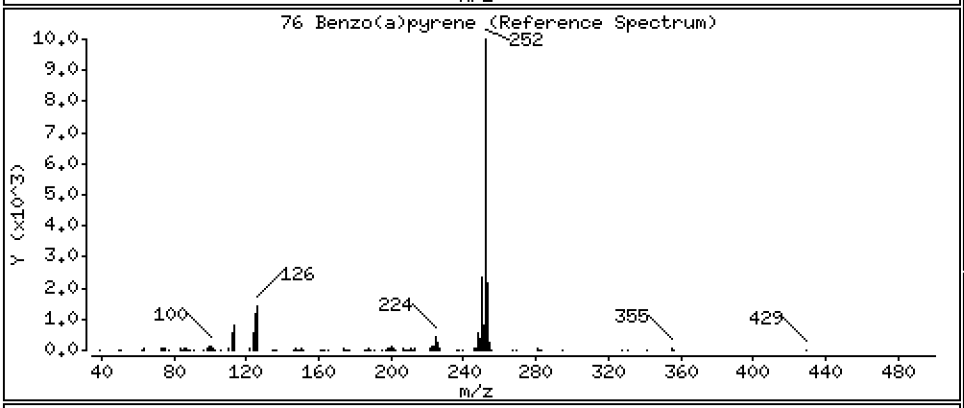
Column diameter: 0.25

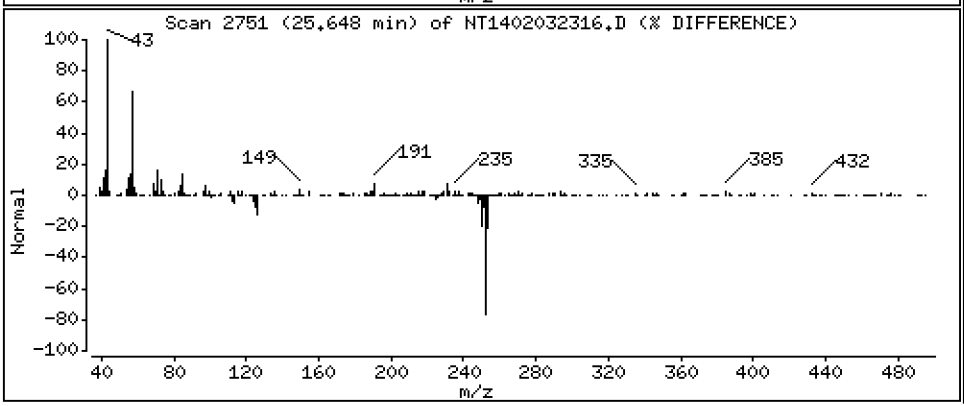
76 Benzo(a)pyrene

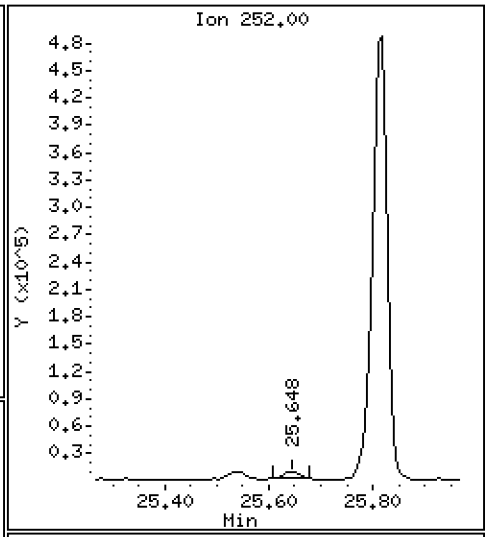
Concentration: 0.3417 ug/mL

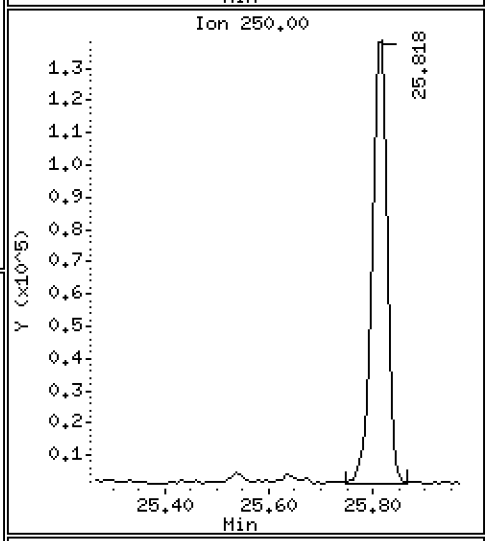


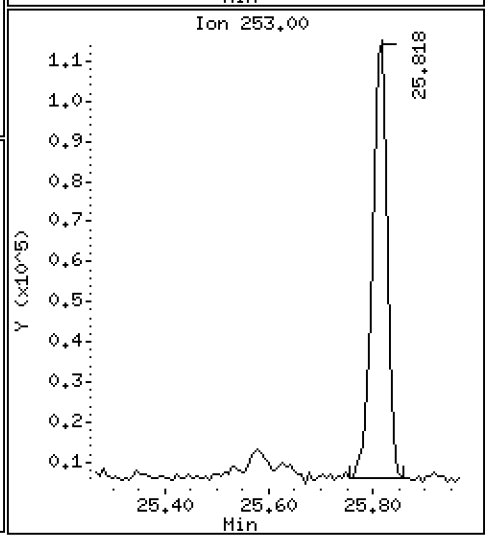












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

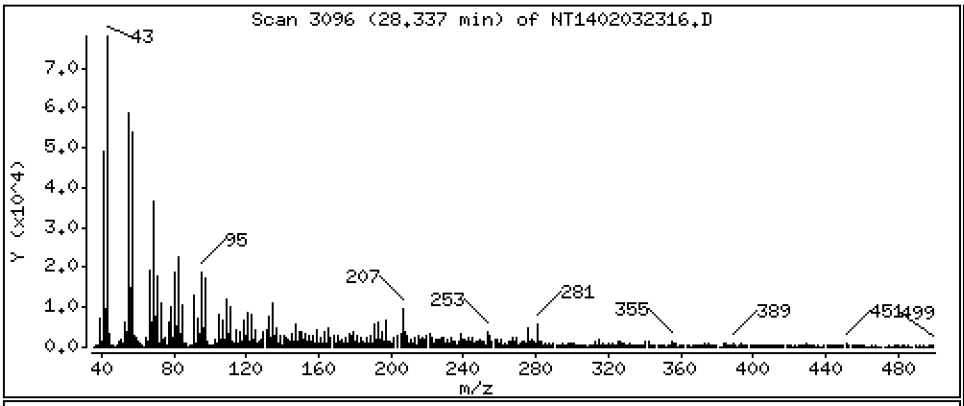
Operator: DSD

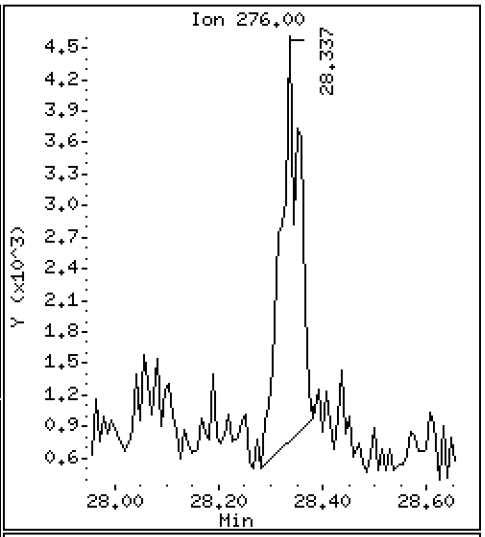
Column phase: ZB-5msi

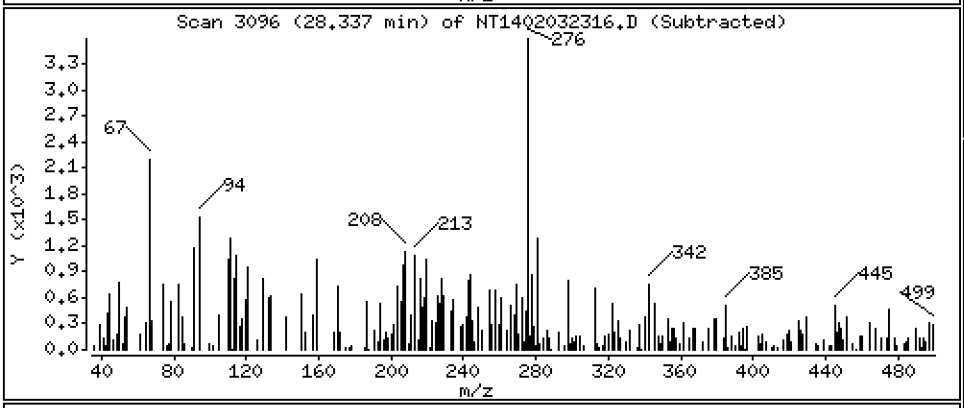
Column diameter: 0.25

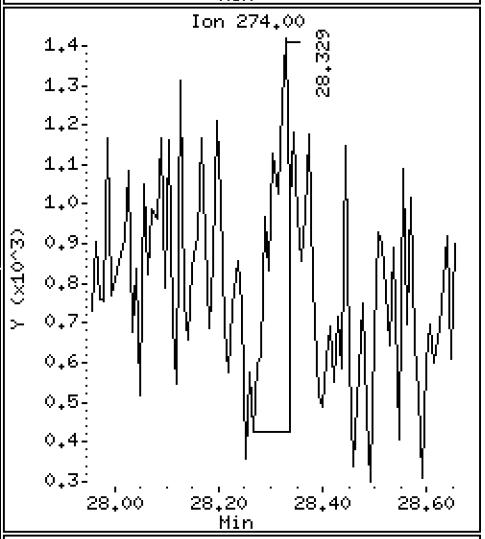
78 Indeno(1,2,3-cd)pyrene

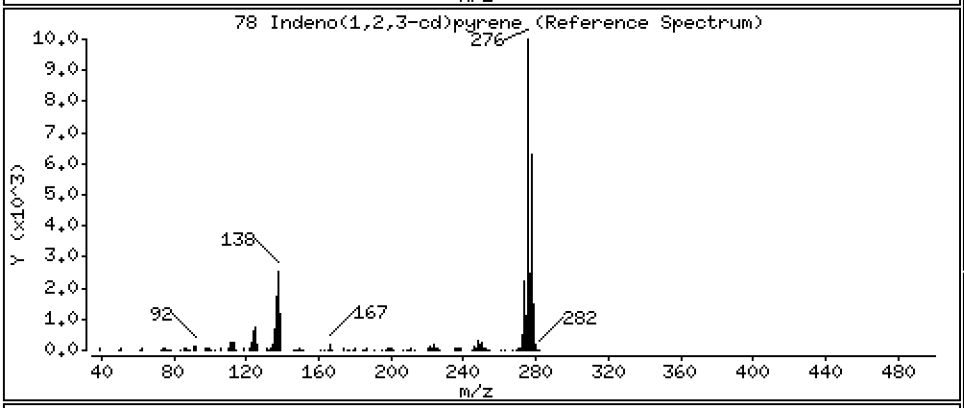
Concentration: 0.1691 ug/mL

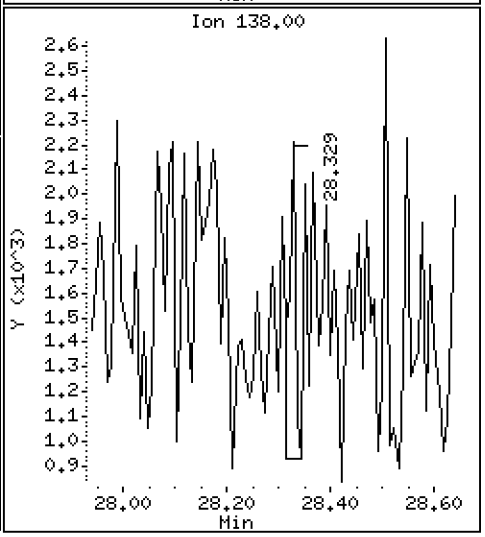


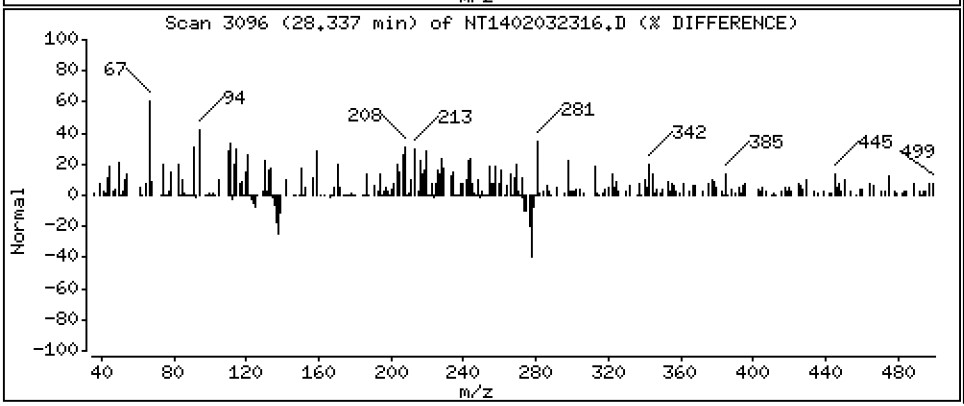












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

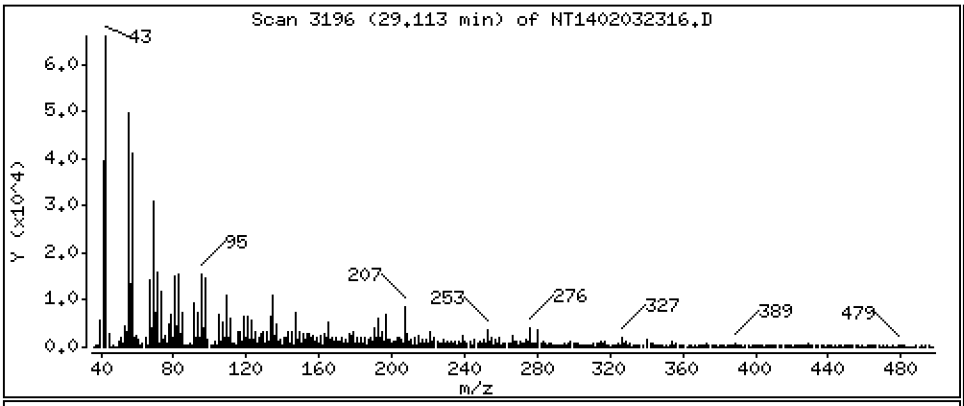
Operator: DSD

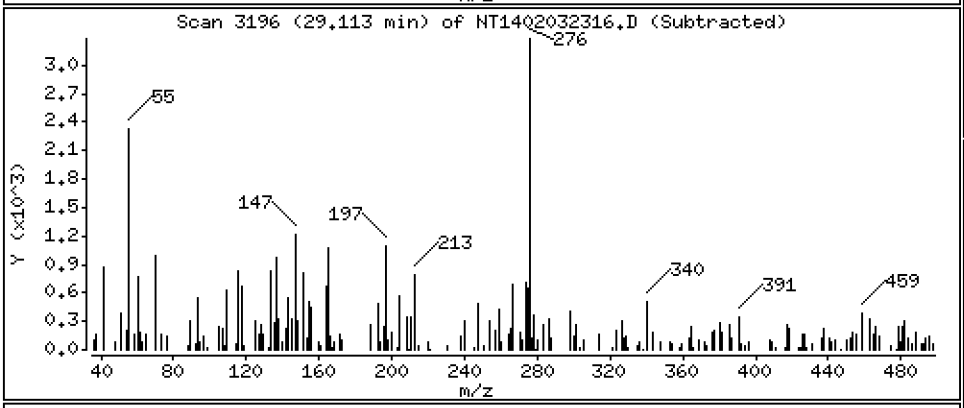
Column phase: ZB-5msi

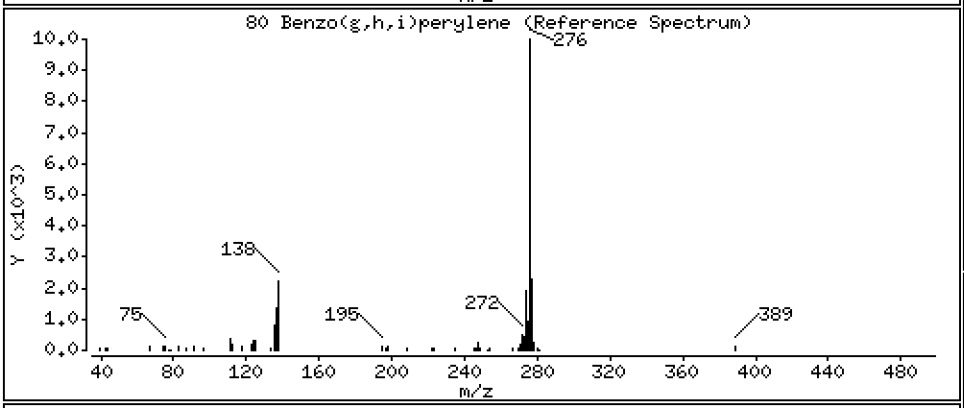
Column diameter: 0.25

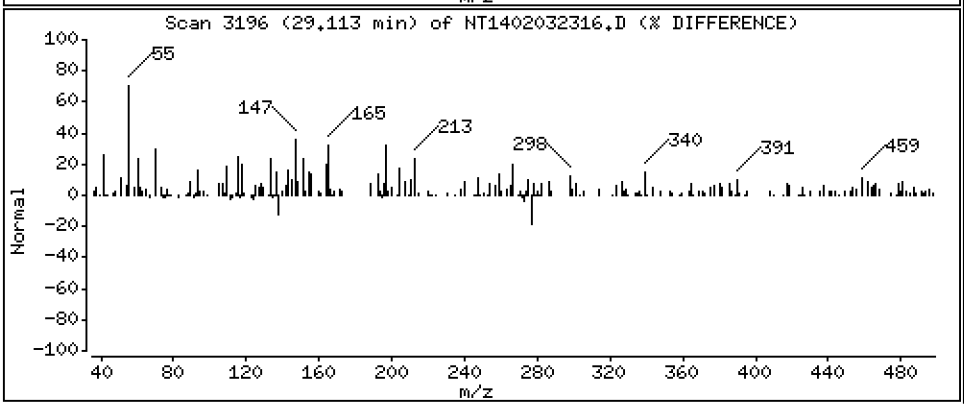
80 Benzo(g,h,i)perylene

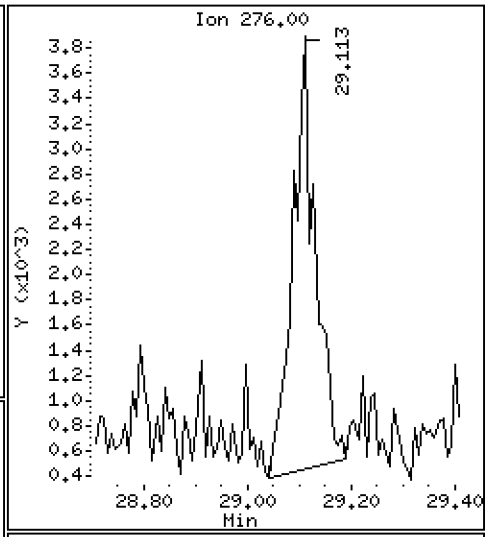
Concentration: 0.2437 ug/mL

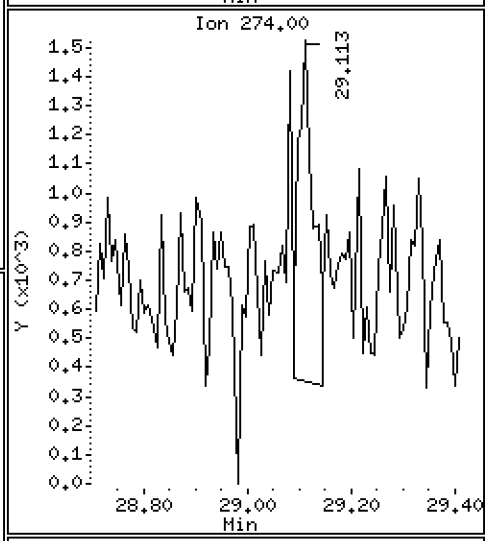


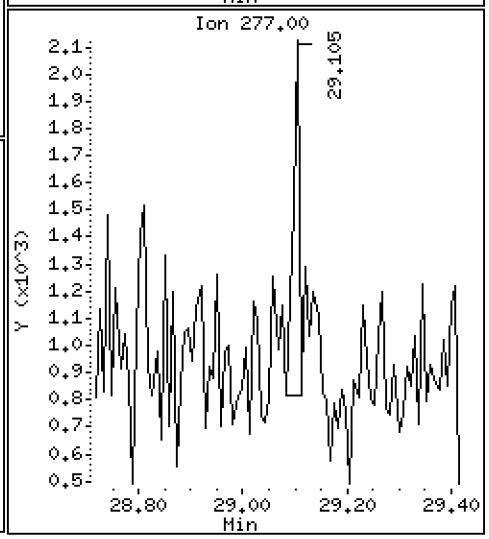












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

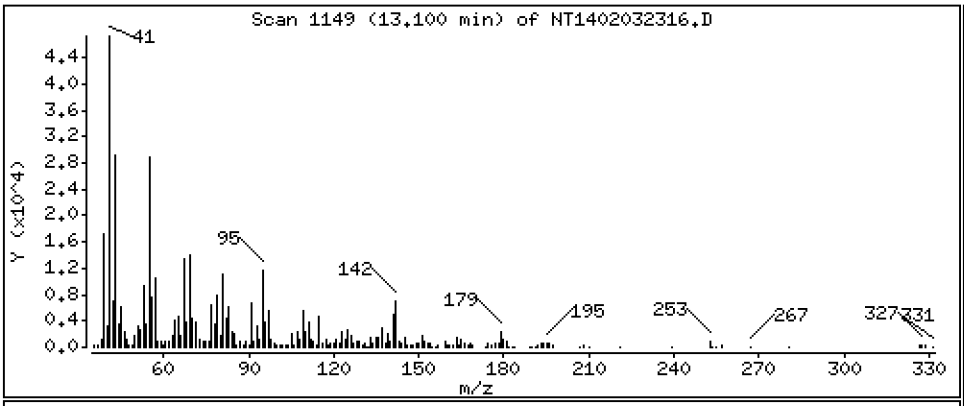
Operator: DSD

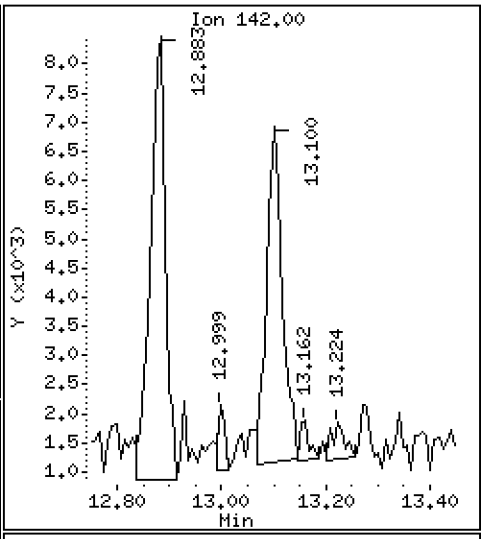
Column phase: ZB-5msi

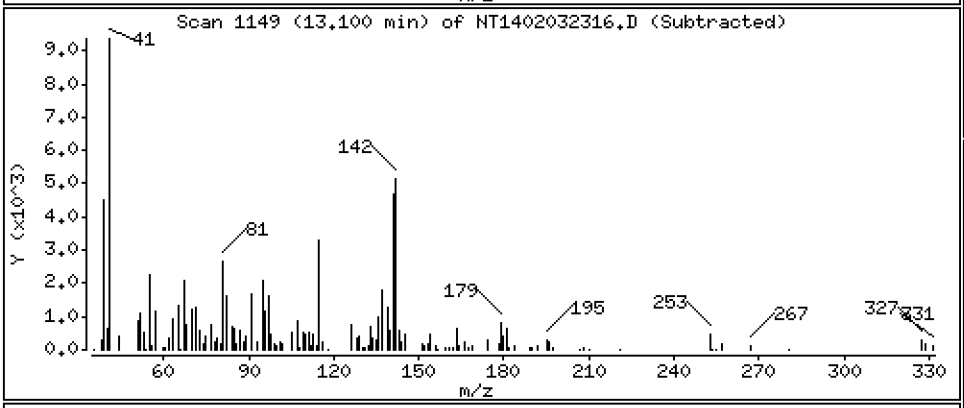
Column diameter: 0.25

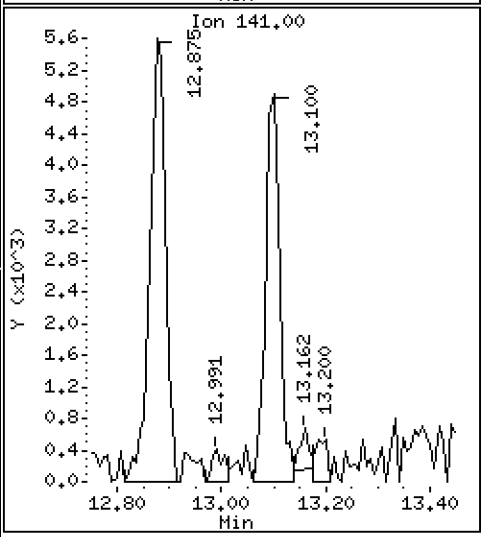
105 1-methylnaphthalene

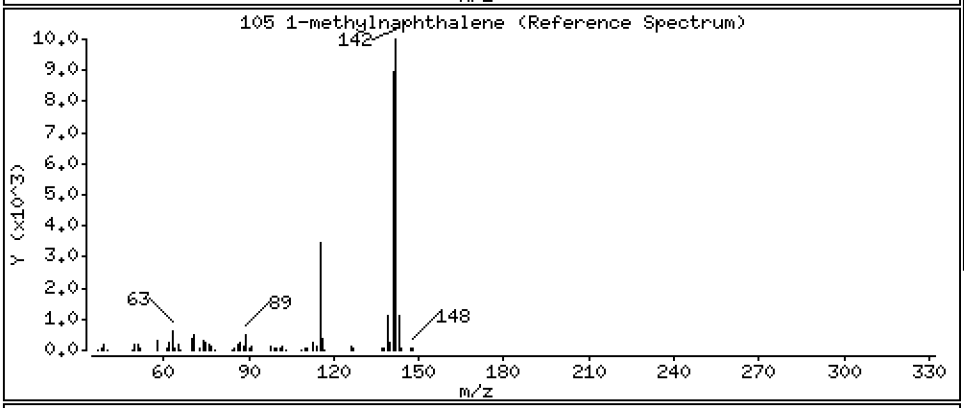
Concentration: 0.2559 ug/mL

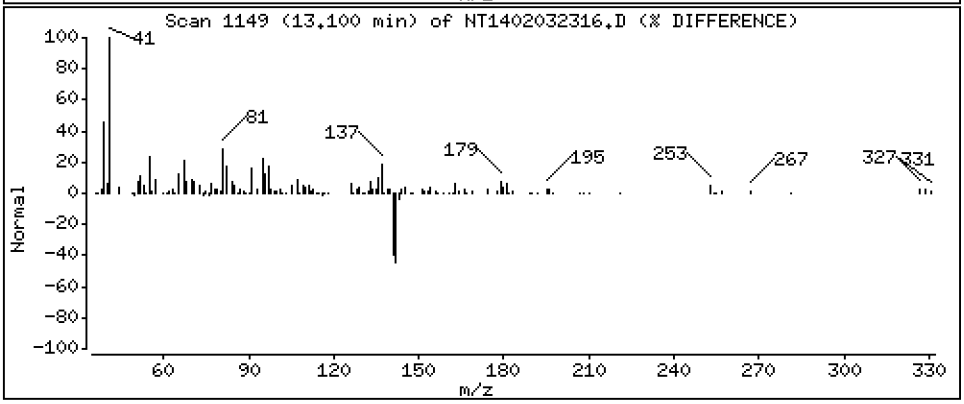












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Date : 03-FEB-2023 22:09

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-06

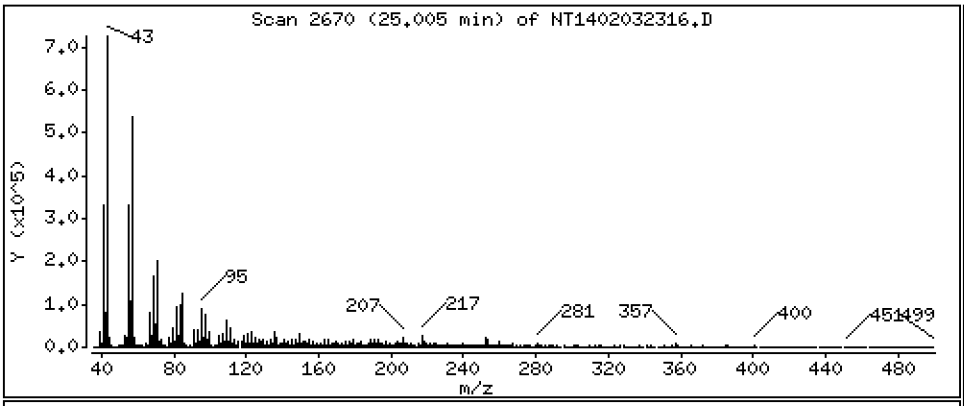
Operator: DSD

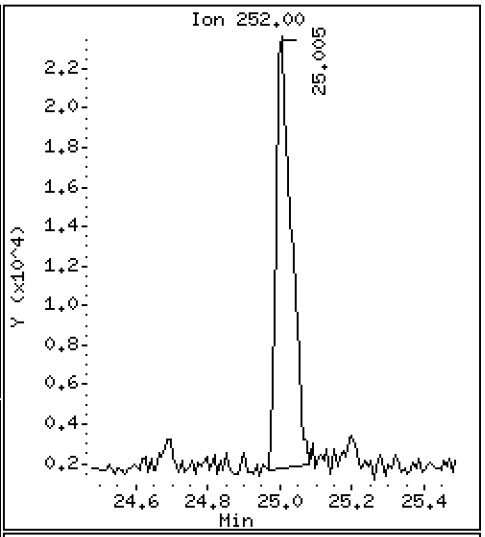
Column phase: ZB-5msi

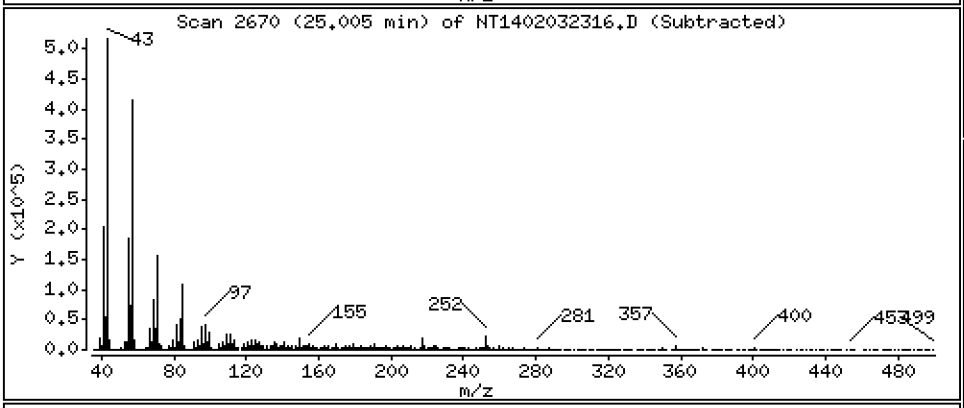
Column diameter: 0.25

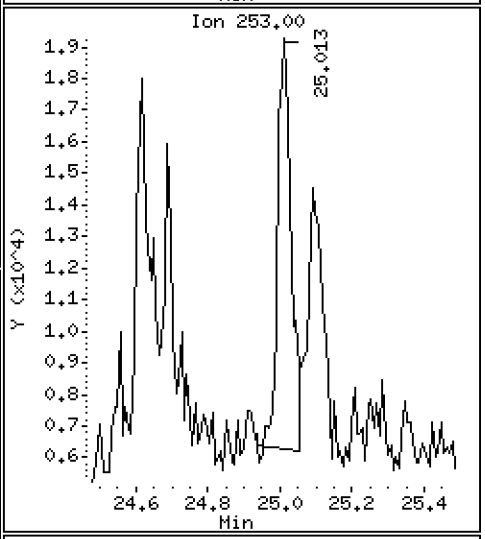
187 Total Benzofluoranthenes

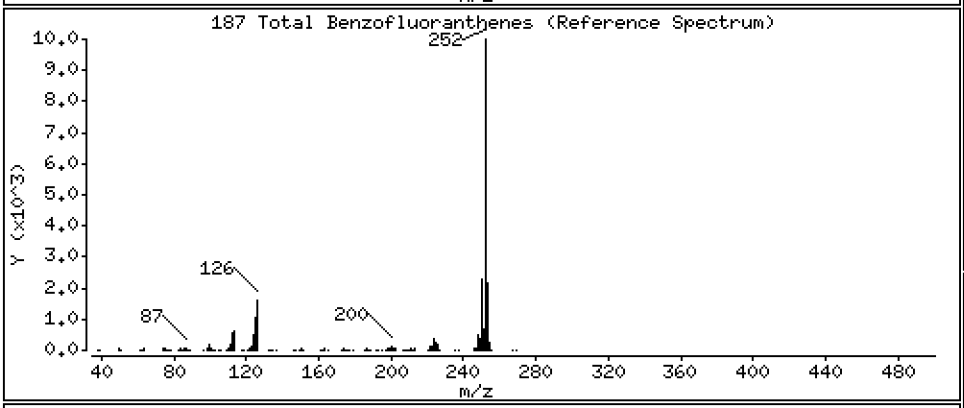
Concentration: 1.201 ug/mL

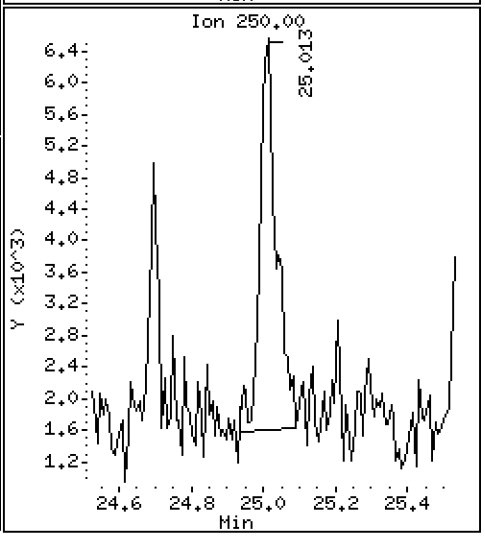


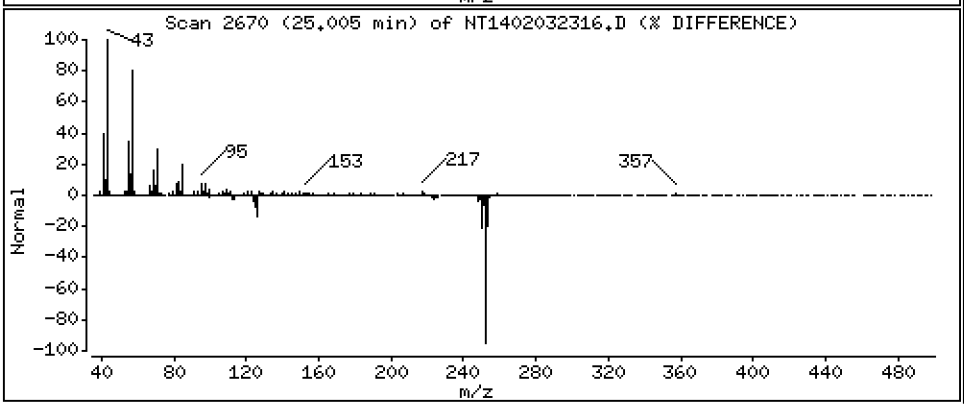












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230203.b\NT1402032316.D
Lab Smp Id: 22L0459-06
Inj Date : 03-FEB-2023 22:09 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : 22L0459-06
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.728	6.720	(0.753)	66432	4.41842	4.418
$	2 Phenol-d5	99	8.320	8.312	(0.931)	100834	5.10428	5.104
	3 Phenol	94	8.336	8.336	(0.933)	3302	0.13627	0.1363
$	5 2-Chlorophenol-d4	132	8.583	8.583	(0.960)	108899	5.69937	5.699
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	8.877	8.884	(0.993)	1054	0.04692	0.04692
*	8 1,4-Dichlorobenzene-d4	152	8.939	8.946	(1.000)	55979	4.00000	
	9 1,4-Dichlorobenzene	146	8.962	8.977	(1.003)	1745	0.07687	0.07687
$	10 1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.041)	49292	3.63490	3.635
	12 1,2-Dichlorobenzene	146	9.327	9.334	(1.043)	886	0.03970	0.03970
	11 Benzyl alcohol	108	9.226	9.218	(1.032)	3305	0.27666	0.2767
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.723	9.722	(1.088)	4596	0.21886	0.2189
$	18 Nitrobenzene-d5	82	10.033	10.041	(0.877)	123486	3.79308	3.793
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.436	11.436	(1.000)	227537	4.00000	
	28 Naphthalene	128	11.475	11.482	(1.003)	16679	0.29134	0.2913
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.883	12.882	(1.126)	15269	0.32715	0.3272
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$ 36	2-Fluorobiphenyl	172	13.664	13.664	(0.907)	215128	4.32983	4.330
37	2-Chloronaphthalene	162	Compound Not Detected.					
38	2-Nitroaniline	65	Compound Not Detected.					
39	Dimethylphthalate	163	Compound Not Detected.					
40	Acenaphthylene	152	Compound Not Detected.					
41	2,6-Dinitrotoluene	165	Compound Not Detected.					
* 42	Acenaphthene-d10	164	15.057	15.057	(1.000)	139608	4.00000	
43	3-Nitroaniline	138	Compound Not Detected.					
44	Acenaphthene	153	15.127	15.127	(1.005)	6665	0.15228	0.1523
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	15.452	15.451	(1.026)	15474	0.24397	0.2440
47	4-Nitrophenol	109	Compound Not Detected.					
48	2,4-Dinitrotoluene	165	Compound Not Detected.					
50	Diethylphthalate	149	16.024	16.031	(1.064)	11853	0.15249	0.1525
49	Fluorene	166	16.170	16.163	(1.074)	22453	0.28734	0.2873
51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
52	4-Nitroaniline	138	Compound Not Detected.					
53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$ 55	2,4,6-Tribromophenol	330	16.703	16.702	(1.109)	82515	7.08100	7.081
56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	18.101	18.093	(1.000)	293690	4.00000	
60	Phenanthrene	178	18.155	18.147	(1.003)	59433	0.75001	0.7500
61	Anthracene	178	18.248	18.232	(1.008)	36771	0.48562	0.4856
62	Carbazole	167	Compound Not Detected.					
63	Di-n-butylphthalate	149	19.393	19.377	(1.071)	28963	0.26868	0.2687
64	Fluoranthene	202	20.577	20.538	(0.888)	100893	2.02587	2.026
65	Pyrene	202	20.987	20.963	(0.906)	93520	1.89424	1.894
$ 66	Terphenyl-d14	244	21.265	21.250	(0.918)	203183	4.74433	4.744
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	23.139	23.123	(0.999)	24541	0.51779	0.5178
* 69	Chrysene-d12	240	23.170	23.154	(1.000)	129947	4.00000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	23.209	23.201	(1.002)	27495	0.61708	0.6171(M)
72	bis(2-Ethylhexyl)phthalate	149	23.209	23.201	(0.959)	35524	1.01831	1.018
* 134	Di-n-octylphthalate-d4	153	24.192	24.184	(1.000)	214318	4.00000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	25.005	24.981	(0.971)	49745	0.91439	0.9144(M)
75	Benzo(k)fluoranthene	252	25.028	25.020	(0.972)	19877	0.35688	0.3569(M)
76	Benzo(a)pyrene	252	25.648	25.616	(0.996)	15883	0.34169	0.3417(M)
* 77	Perylene-d12	264	25.756	25.725	(1.000)	154817	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.336	28.305	(1.100)	9933	0.16914	0.1691(M)
79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80	Benzo(g,h,i)perylene	276	29.113	29.058	(1.130)	10599	0.24371	0.2437(M)
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	142	13.099	13.099	(1.145)	11597	0.25587	0.2559
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.005	24.981	(0.971)	63604	1.20093	1.201(M)
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032316.D
Lab Smp Id: 22L0459-06
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	55979	-13.81
27 Naphthalene-d8	262858	131429	525716	227537	-13.44
42 Acenaphthene-d10	167543	83772	335086	139608	-16.67
59 Phenanthrene-d10	341039	170520	682078	293690	-13.88
69 Chrysene-d12	222731	111366	445462	129947	-41.66
134 Di-n-octylphthala	333425	166713	666850	214318	-35.72
77 Perylene-d12	152721	76361	305442	154817	1.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.08
27 Naphthalene-d8	11.44	10.94	11.94	11.44	0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.10	0.04
69 Chrysene-d12	23.15	22.65	23.65	23.17	0.07
134 Di-n-octylphthala	24.18	23.68	24.68	24.19	0.03
77 Perylene-d12	25.73	25.23	26.23	25.76	0.12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032316.D

Lab ID: 22L0459-06
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 22:09

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

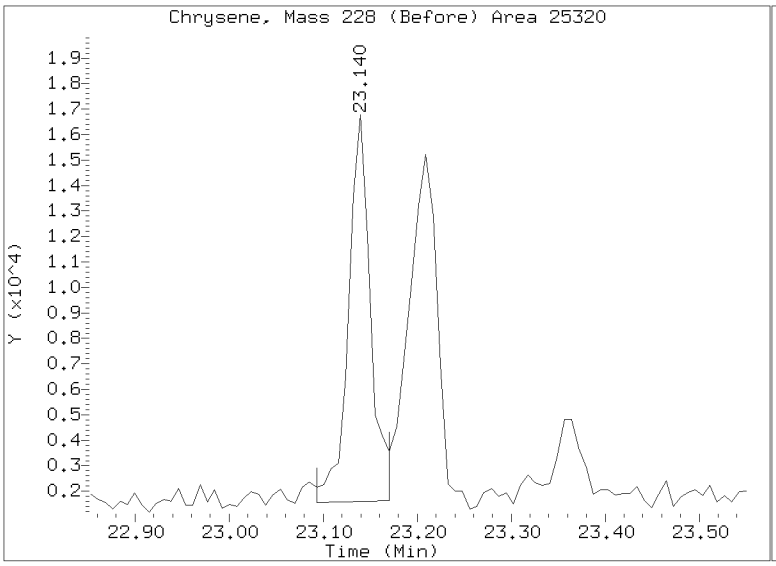
RRT check based on Ccal File: NT1402032303.D

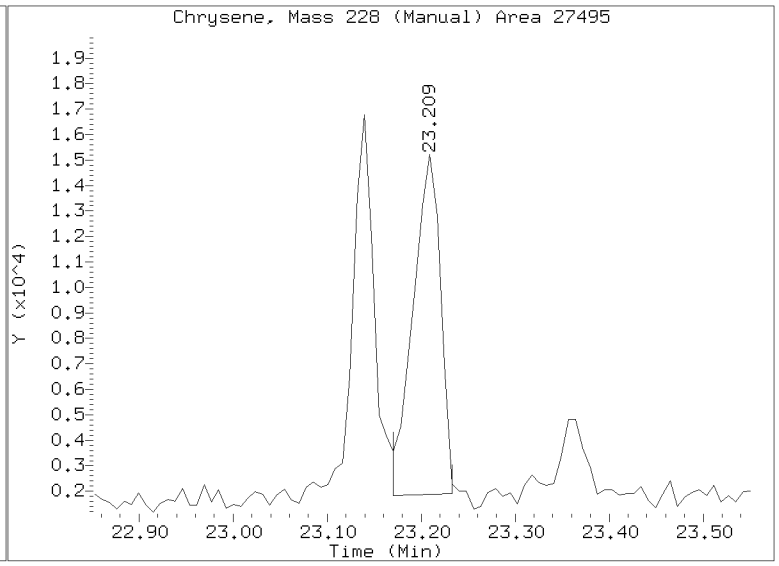
On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

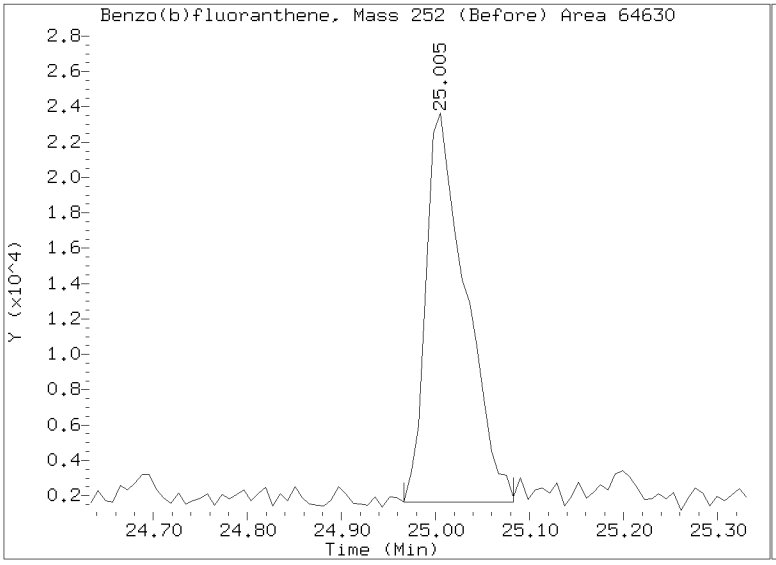
* Only compounds listed in the work order have been verified by the analyst *

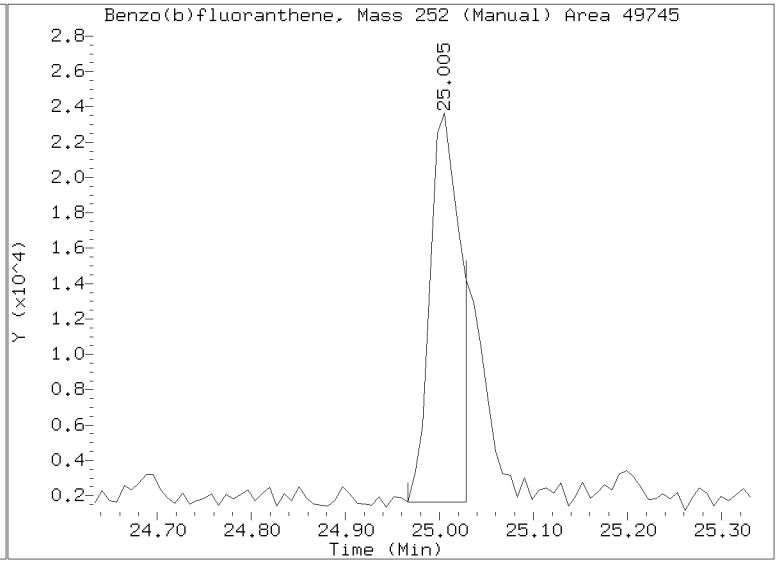
Quant Ion Manual Peak Adjustment Report

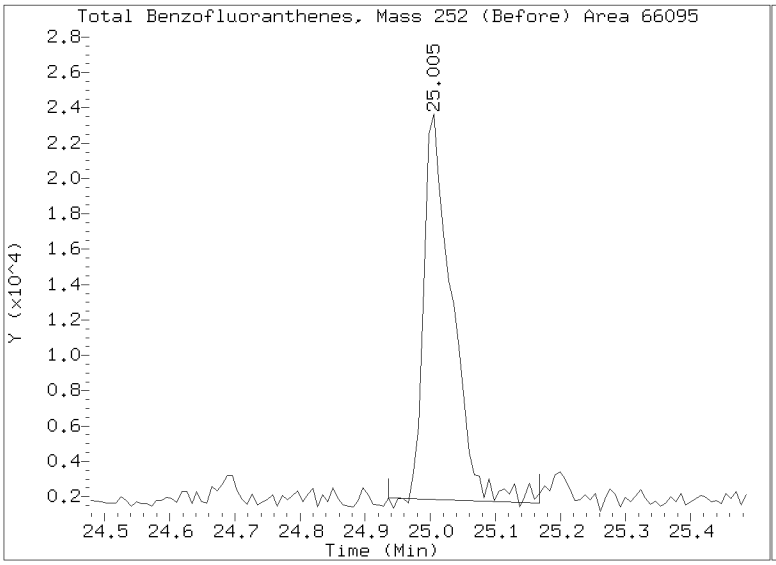
Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032316.D
Injection Date: 03-FEB-2023 22:09
Lab ID:22L0459-06 Client ID:
Report Date: 02/04/2023 10:29

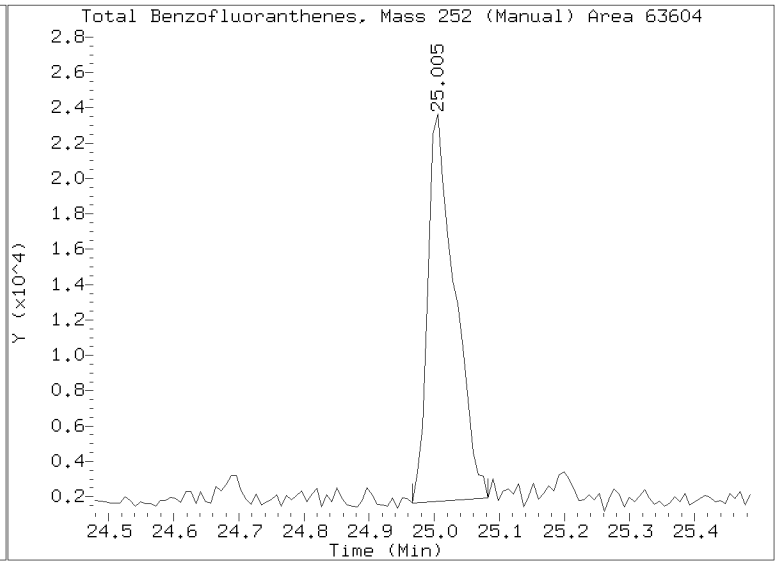












Quant Ion Manual Peak Adjustment Report

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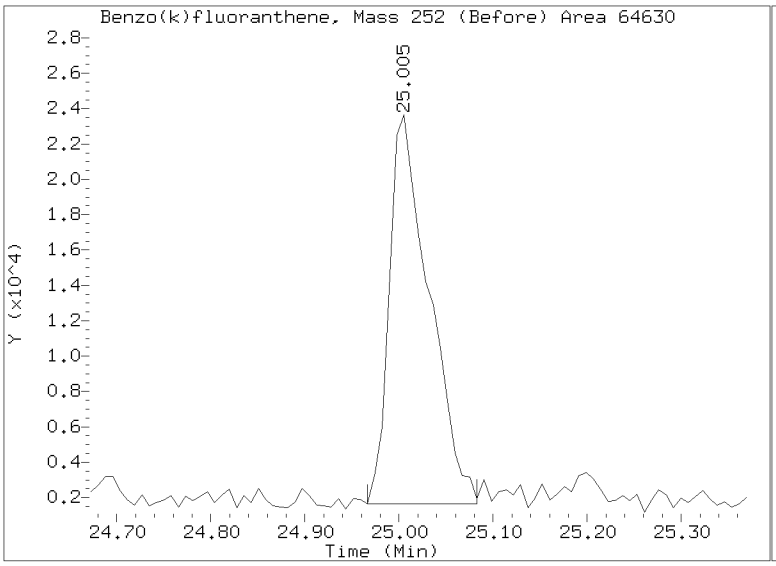
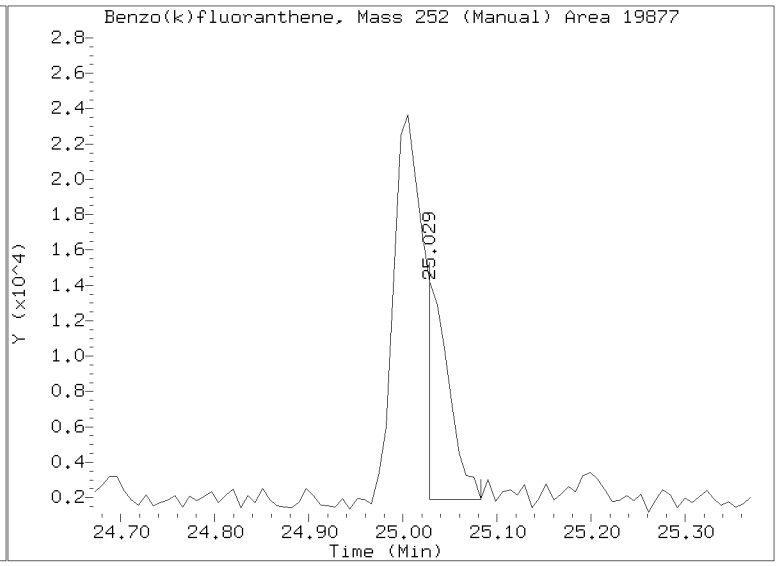
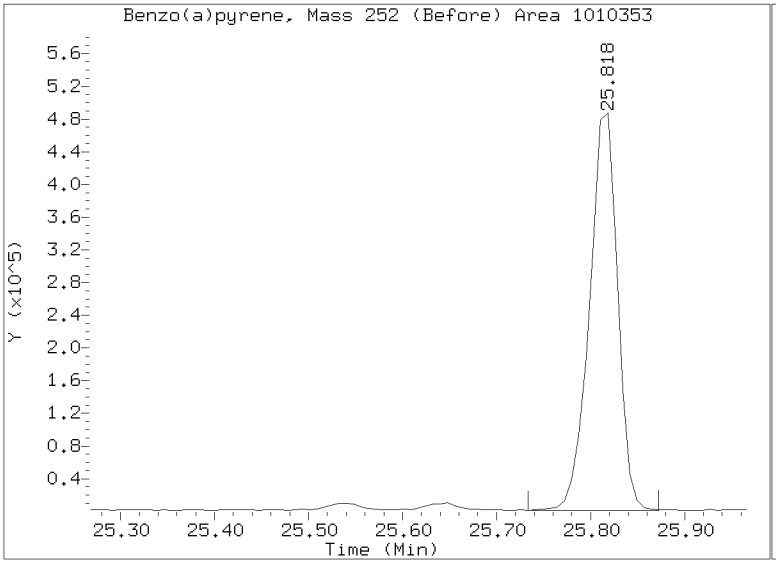
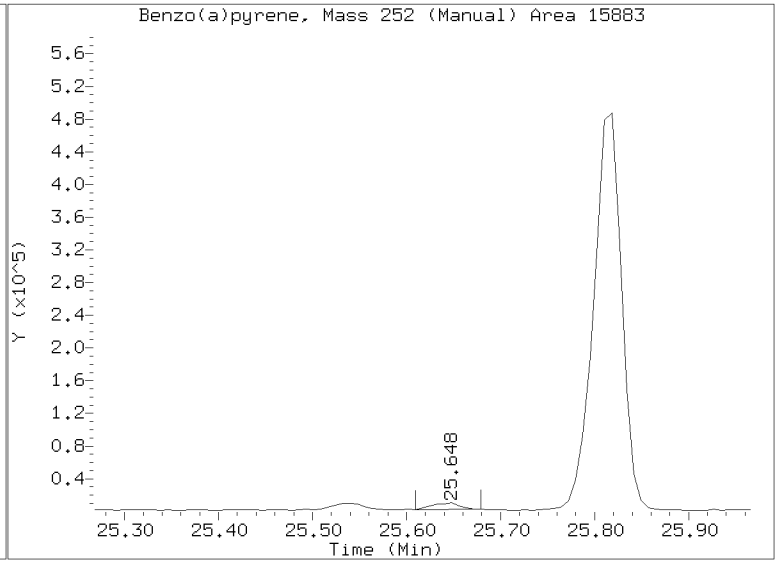
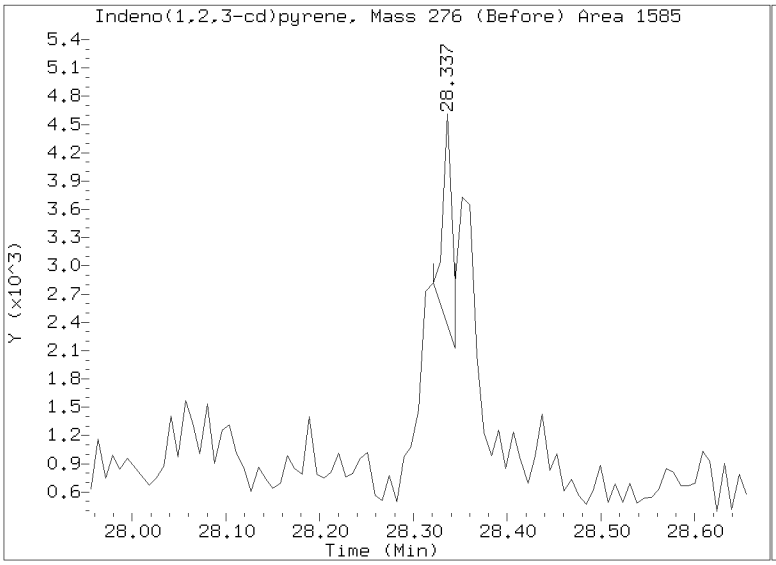
Injection Date: 03-FEB-2023 22:09
Lab ID:22L0459-06 Client ID:
Report Date: 02/04/2023 10:29

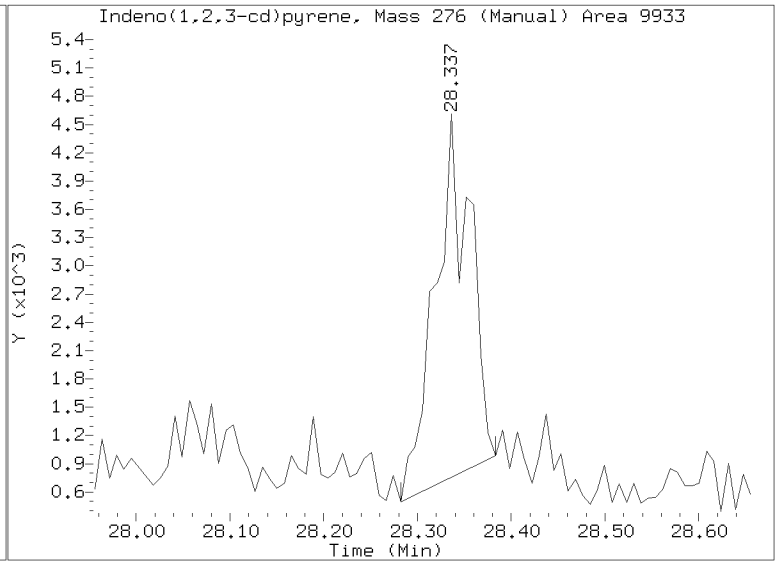






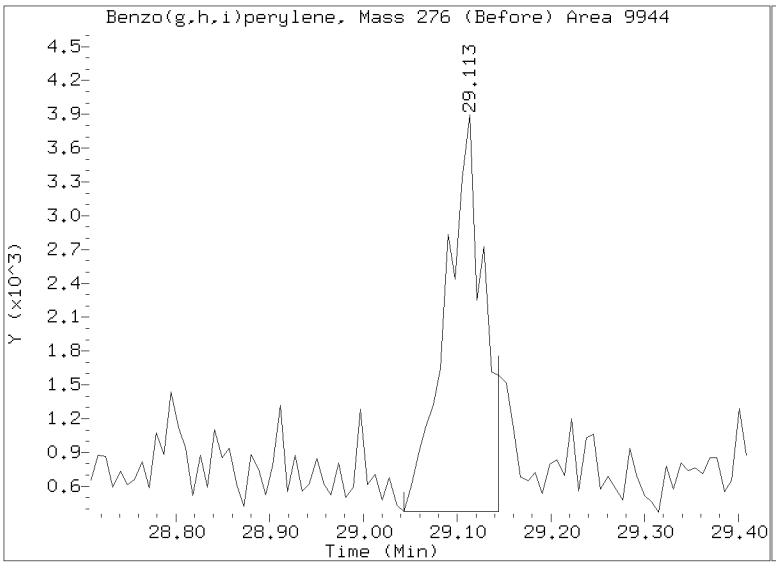


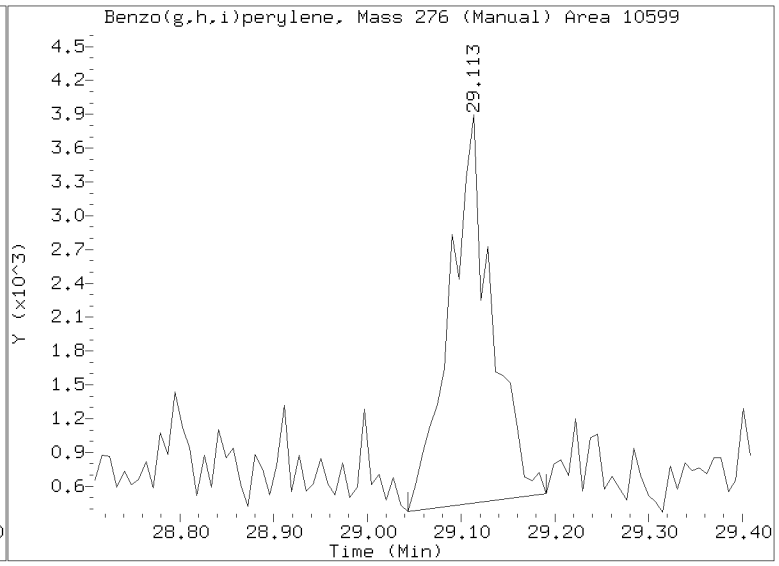




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032316.D
Injection Date: 03-FEB-2023 22:09
Lab ID:22L0459-06 Client ID:
Report Date: 02/04/2023 10:29





Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1091B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-07 A	SDG:	22L0459
Sampled:	12/16/22 12:38	Prepared:	01/05/23 16:13	File ID:	NT1402032317.D
% Solids:	61.13	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 22:45
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	16.38 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	84.4		4.4	20.0
106-44-5	4-Methylphenol	1	62.4		7.4	20.0
91-20-3	Naphthalene	1	44.6		4.2	20.0
91-57-6	2-Methylnaphthalene	1	43.9		4.5	20.0
208-96-8	Acenaphthylene	1	20.0	U	6.2	20.0
131-11-3	Dimethylphthalate	1	20.0	U	4.4	20.0
83-32-9	Acenaphthene	1	18.3	J	5.2	20.0
132-64-9	Dibenzofuran	1	19.9	J	14.1	20.0
86-73-7	Fluorene	1	15.9	J	14.6	20.0
85-01-8	Phenanthrene	1	91.5		8.7	20.0
120-12-7	Anthracene	1	31.5		7.2	20.0
206-44-0	Fluoranthene	1	227		6.1	20.0
129-00-0	Pyrene	1	278		5.7	20.0
85-68-7	Butylbenzylphthalate	1	10.7	J	9.4	20.0
56-55-3	Benzo(a)anthracene	1	62.4		6.0	20.0
218-01-9	Chrysene	1	89.9		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	96.1		5.5	49.9
	Benzofluoranthenes, Total	1	239		10.0	39.9
50-32-8	Benzo(a)pyrene	1	83.2		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	52.2		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	20.0	U	17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	46.0		13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.02	387	51.7	27 - 120	
Phenol-d5	749.02	468	62.4	29 - 120	
2-Chlorophenol-d4	749.02	520	69.5	31 - 120	
1,2-Dichlorobenzene-d4	499.35	332	66.4	32 - 120	
Nitrobenzene-d5	499.35	353	70.6	30 - 120	
2-Fluorobiphenyl	499.35	370	74.1	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1091B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

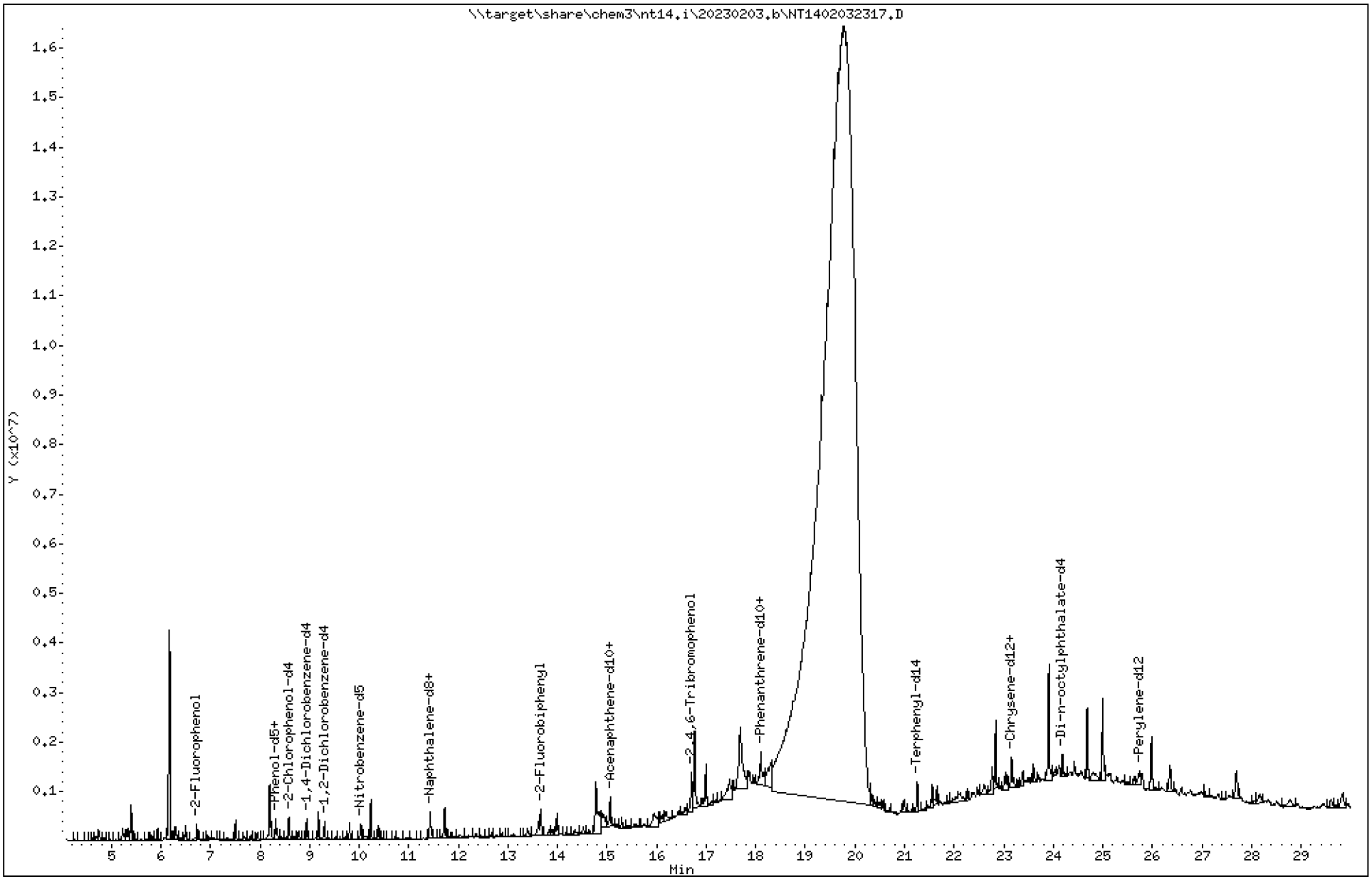
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-07 A	SDG:	22L0459
Sampled:	12/16/22 12:38	Prepared:	01/05/23 16:13	File ID:	NT1402032317.D
% Solids:	61.13	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/03/23 22:45
Batch:	BLA0064	Sequence:	SLB0035	Initial/Final:	16.38 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	GA00072

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	749.02	626	83.6	24 - 134	
p-Terphenyl-d14	499.35	485	97.1	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032317.D
Date : 03-FEB-2023 22:45
Client ID:
Sample Info: 22L0459-07

Instrument: nt14.i
Operator: DSD
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

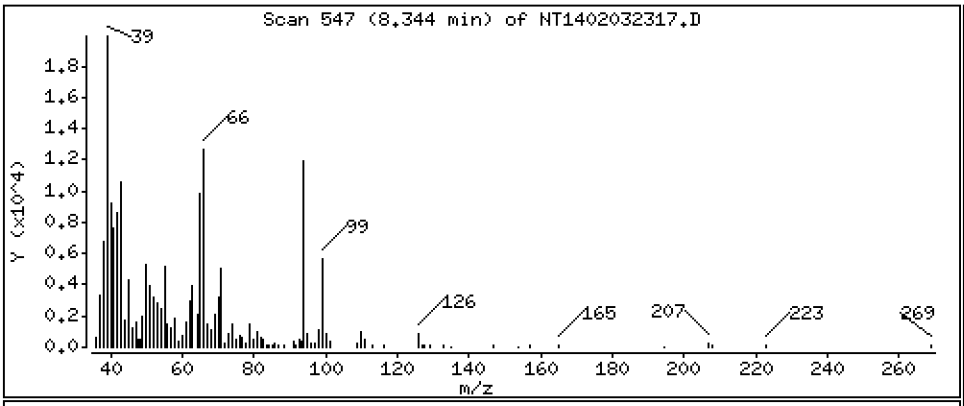
Operator: DSD

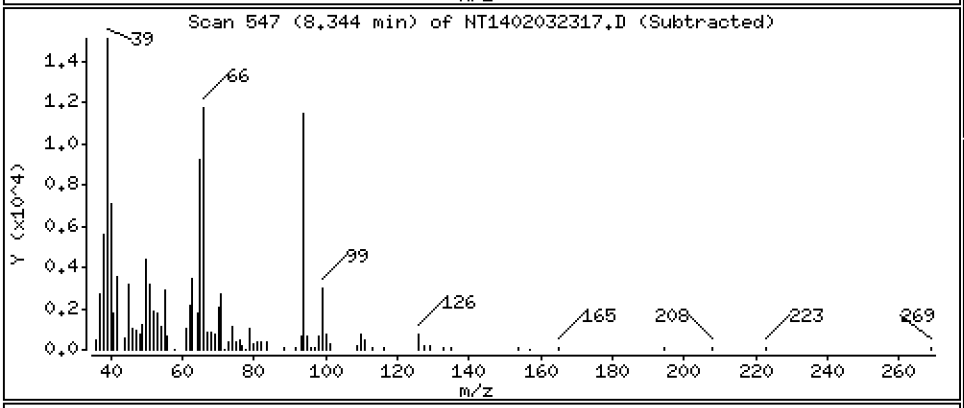
Column phase: ZB-5msi

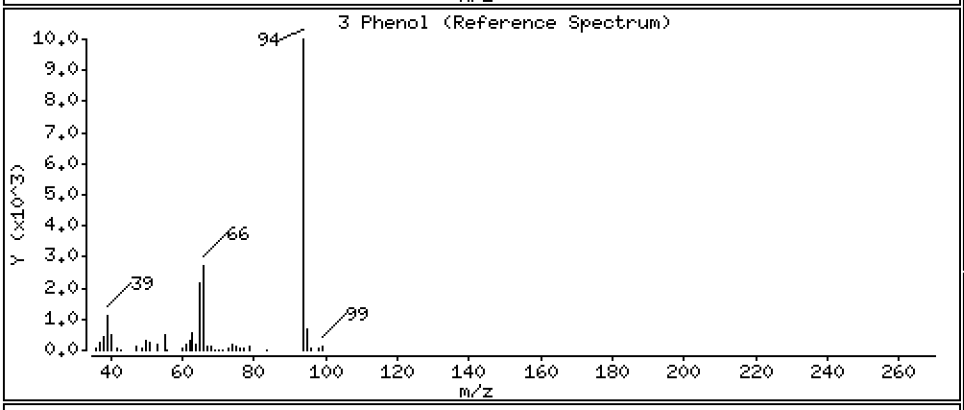
Column diameter: 0.25

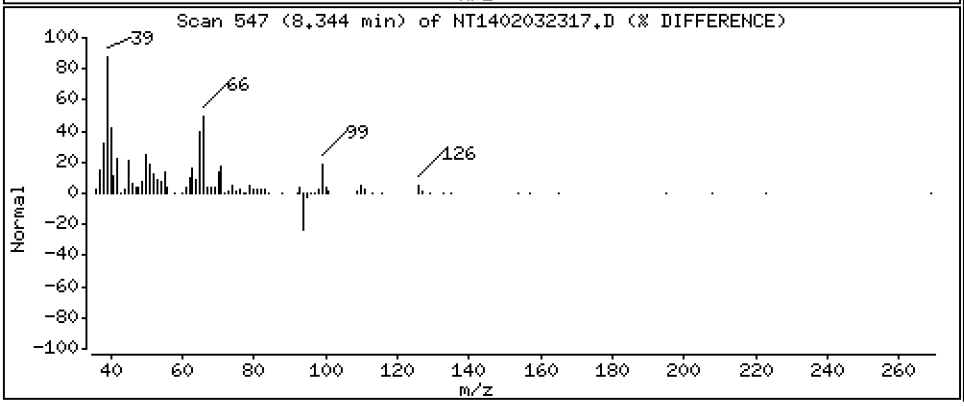
3 Phenol

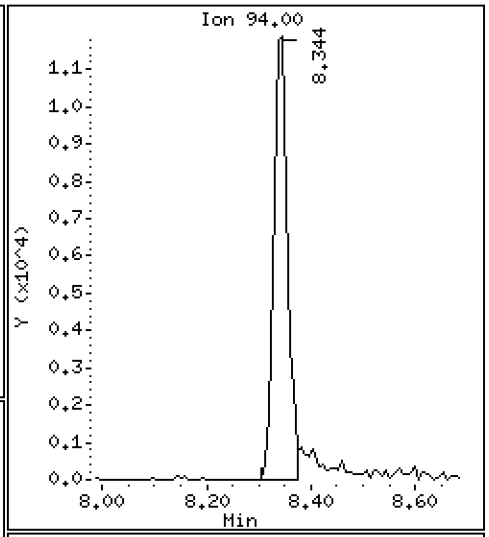
Concentration: 0.8455 ug/mL

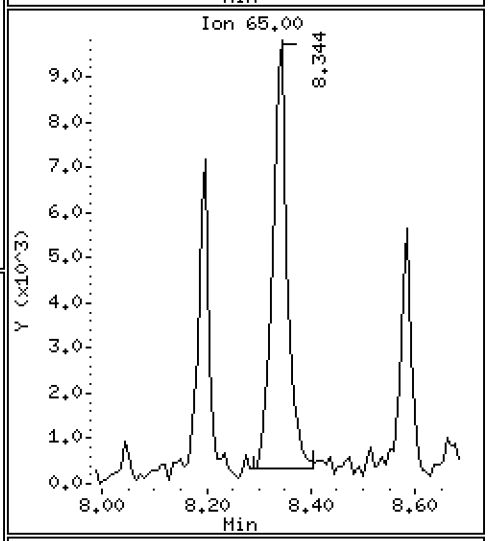


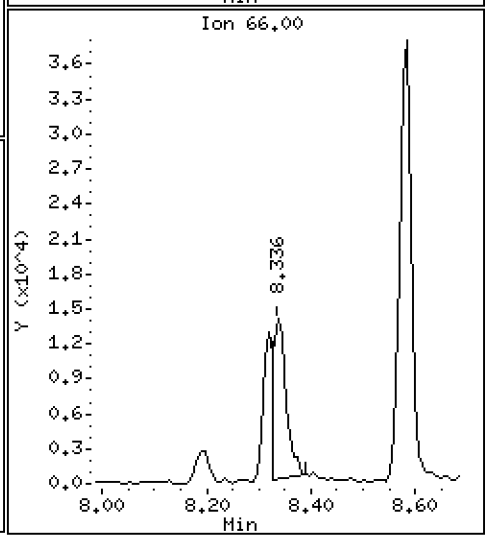












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032317.D

Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

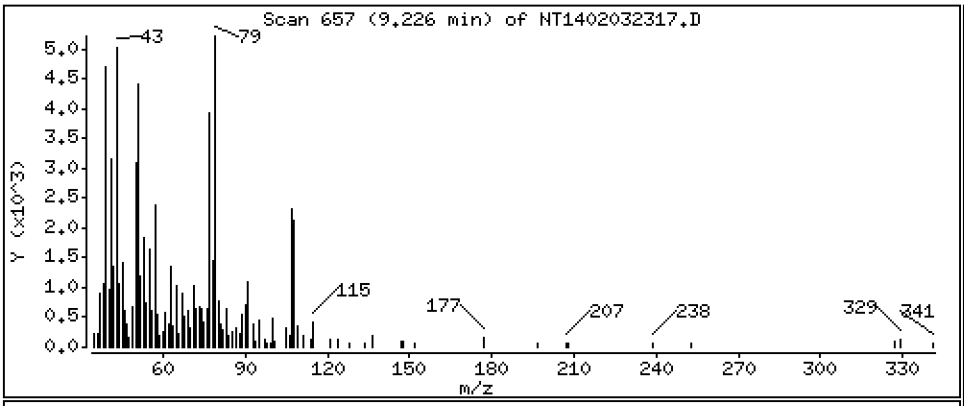
Operator: DSD

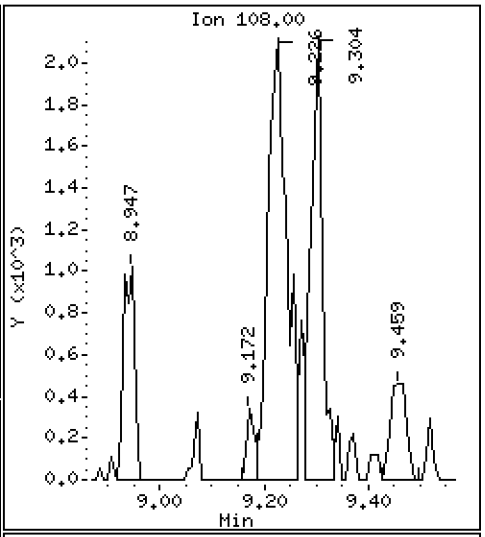
Column phase: ZB-5msi

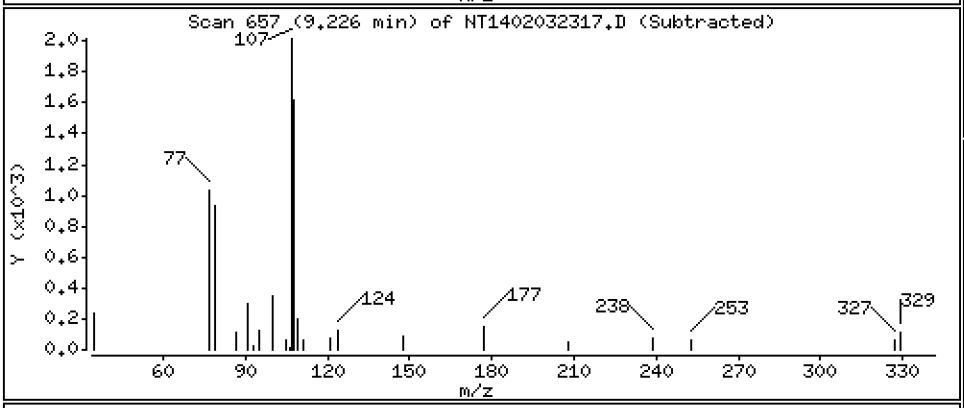
Column diameter: 0.25

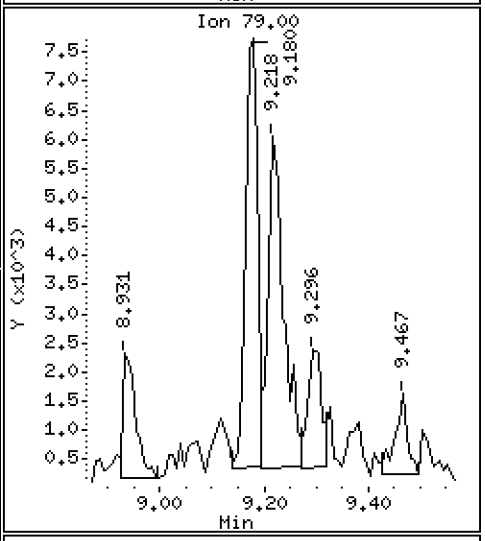
11 Benzyl alcohol

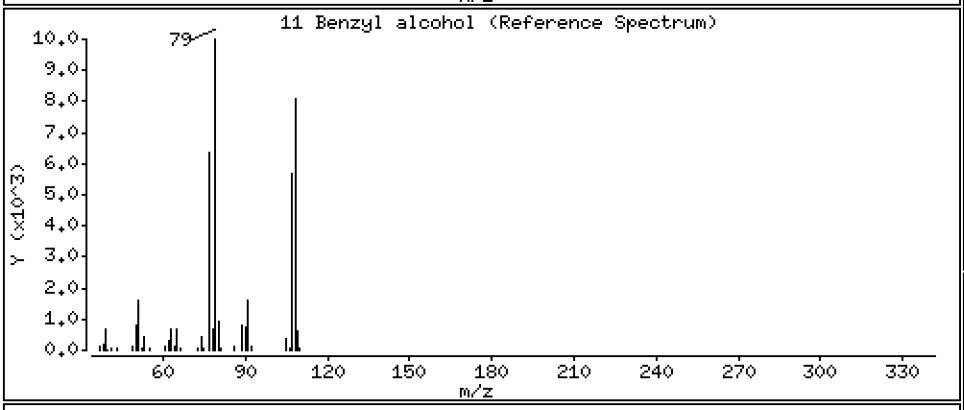
Concentration: 0.4291 ug/mL

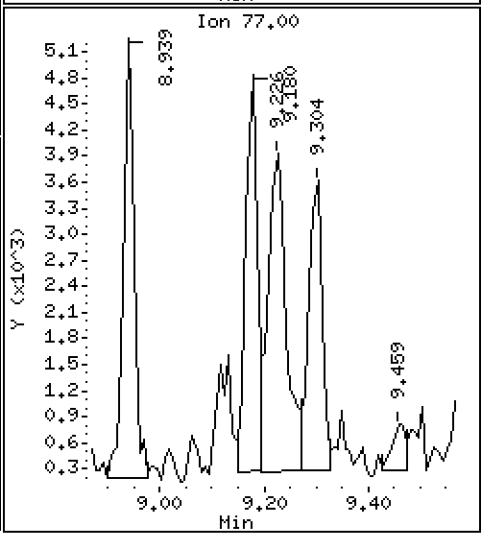


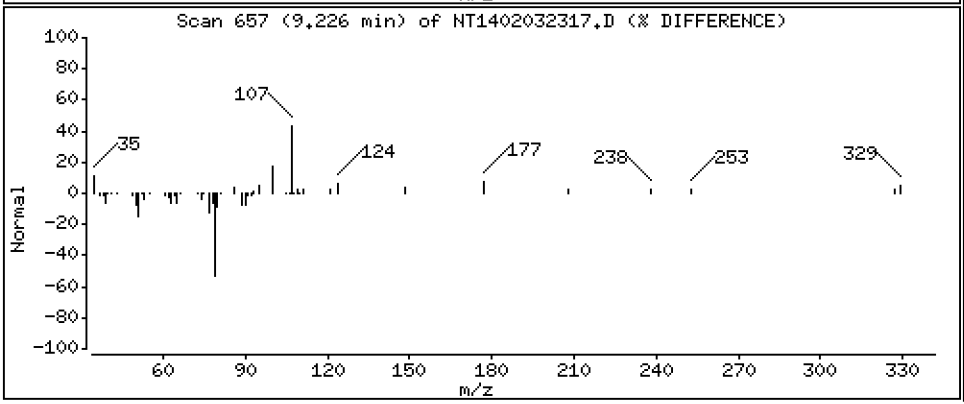












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032317.D

Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

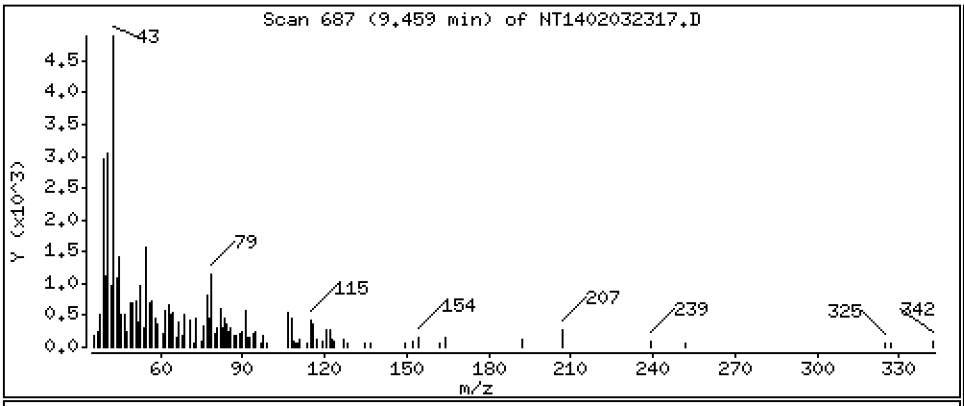
Operator: DSD

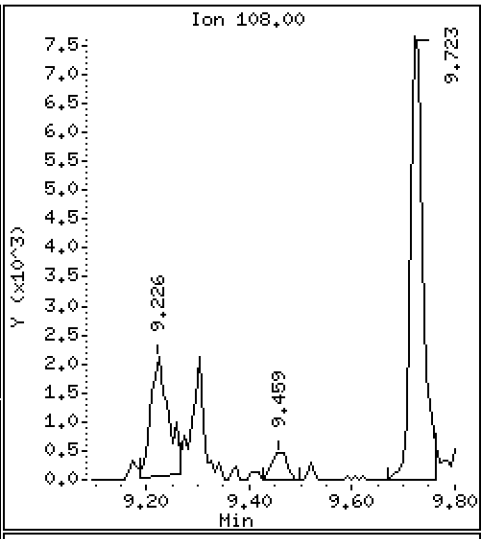
Column phase: ZB-5msi

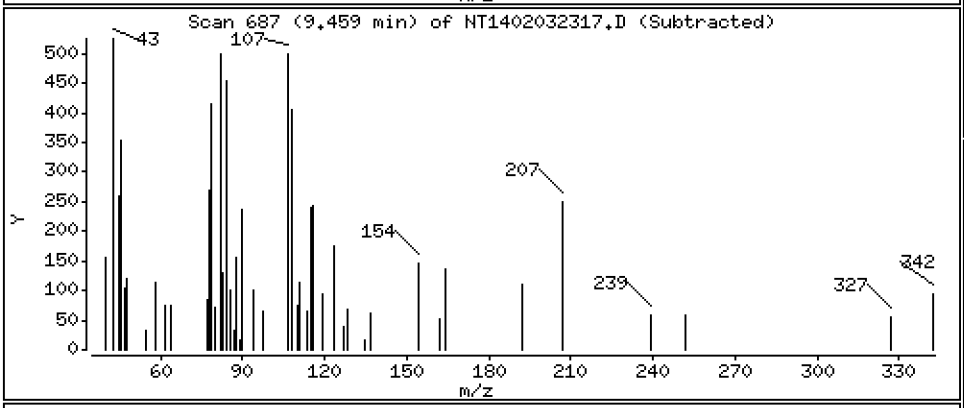
Column diameter: 0.25

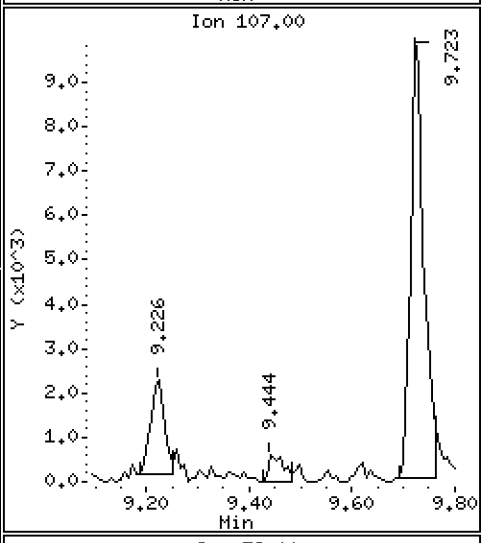
13 2-Methylphenol

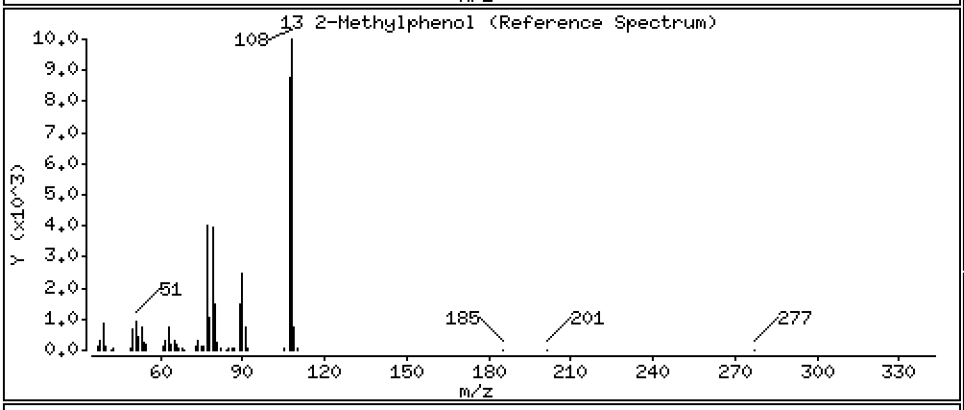
Concentration: 0.04948 ug/mL

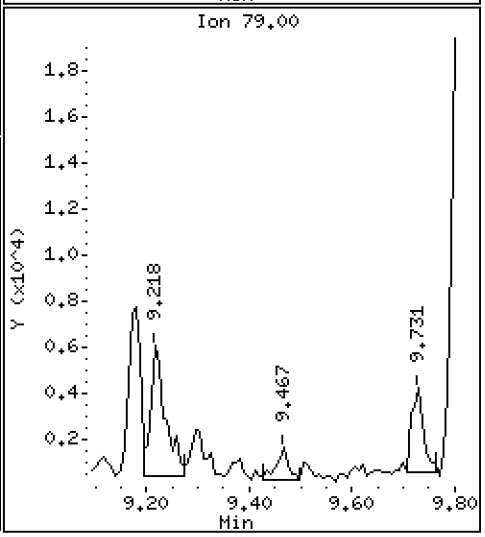


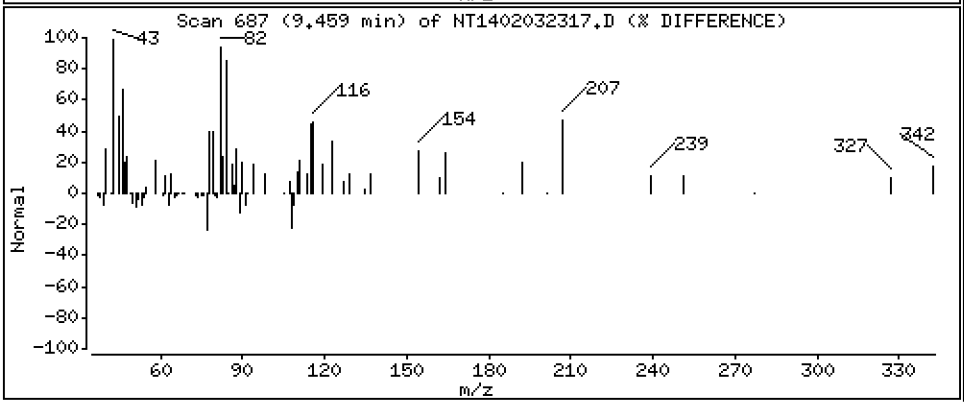












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

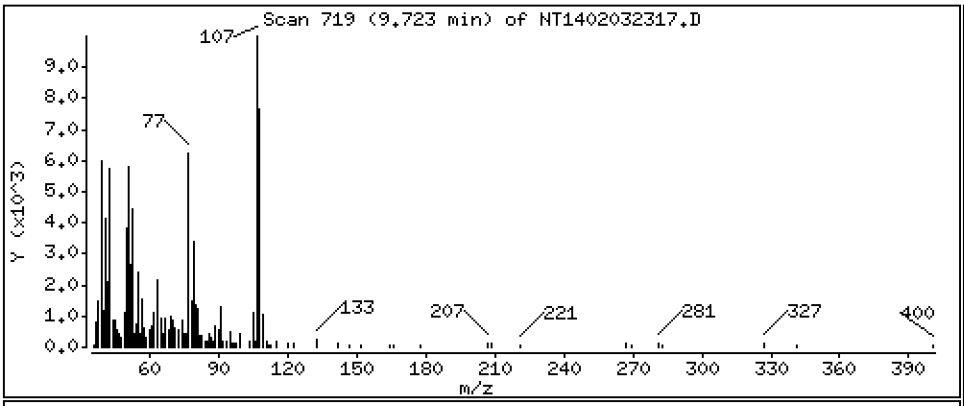
Operator: DSD

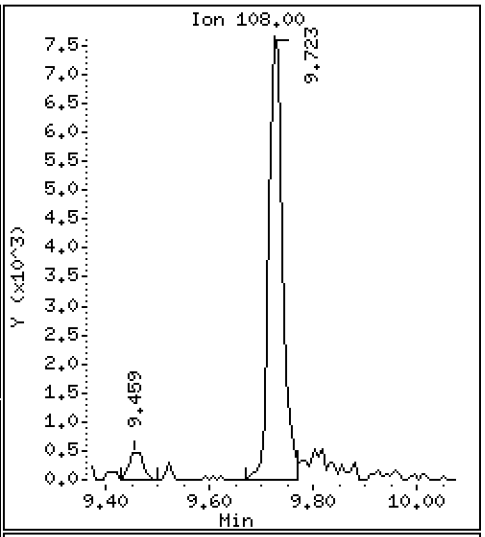
Column phase: ZB-5msi

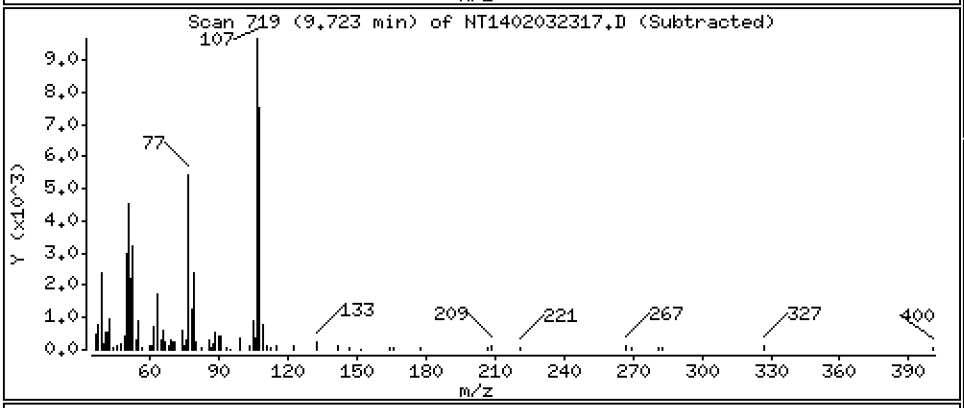
Column diameter: 0.25

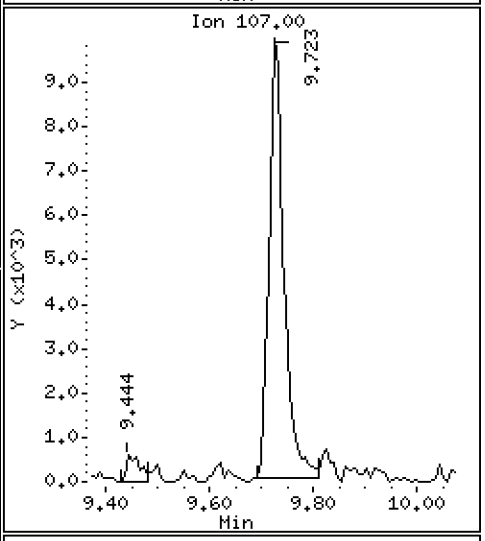
15 4-Methylphenol

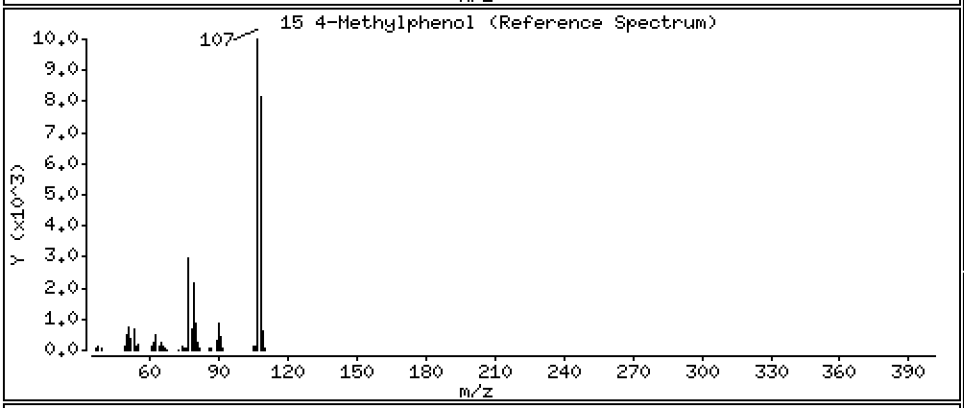
Concentration: 0.6246 ug/mL

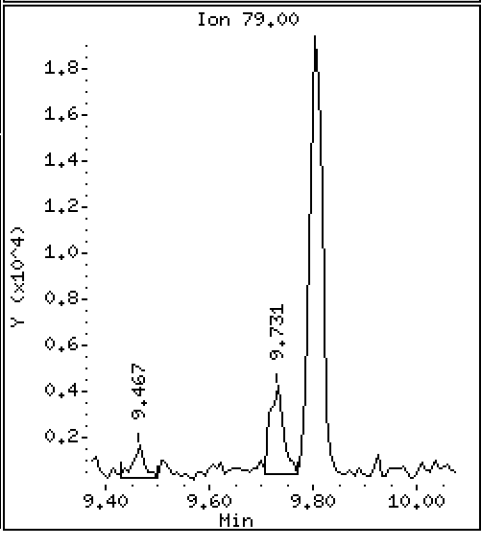


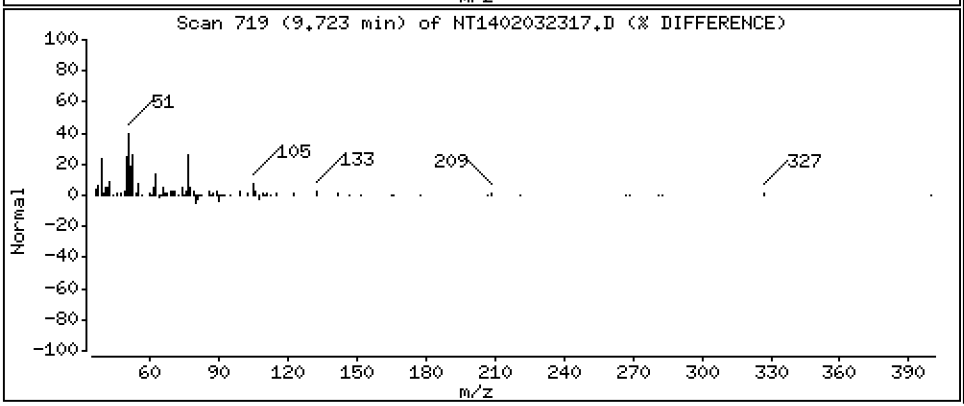












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

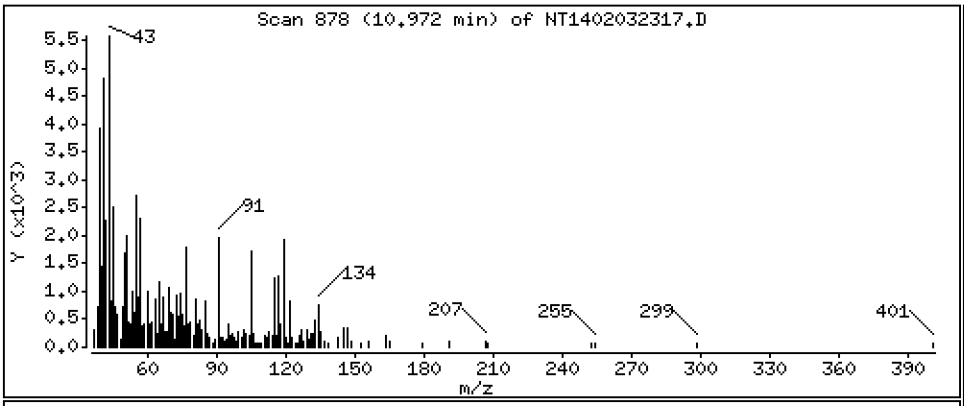
Operator: DSD

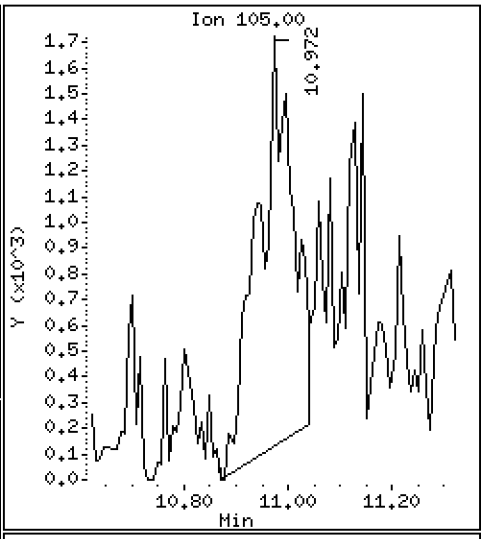
Column phase: ZB-5msi

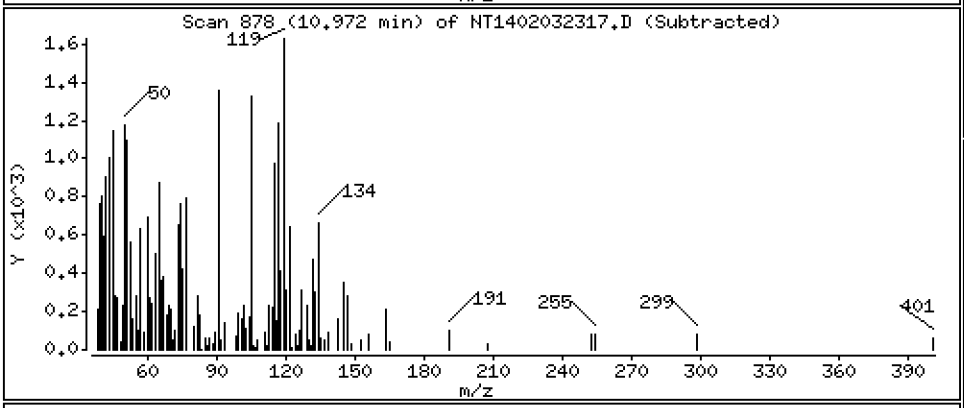
Column diameter: 0.25

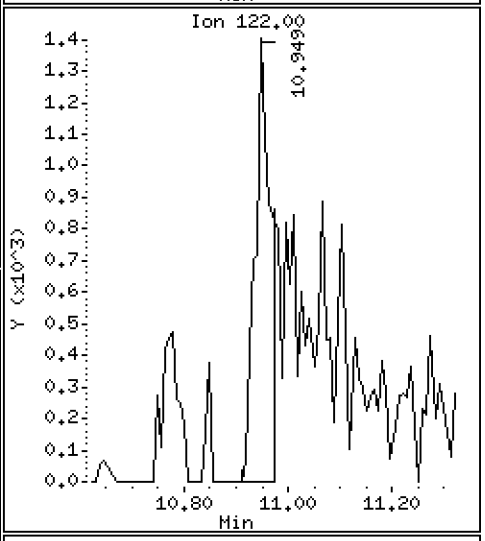
24 Benzoic acid

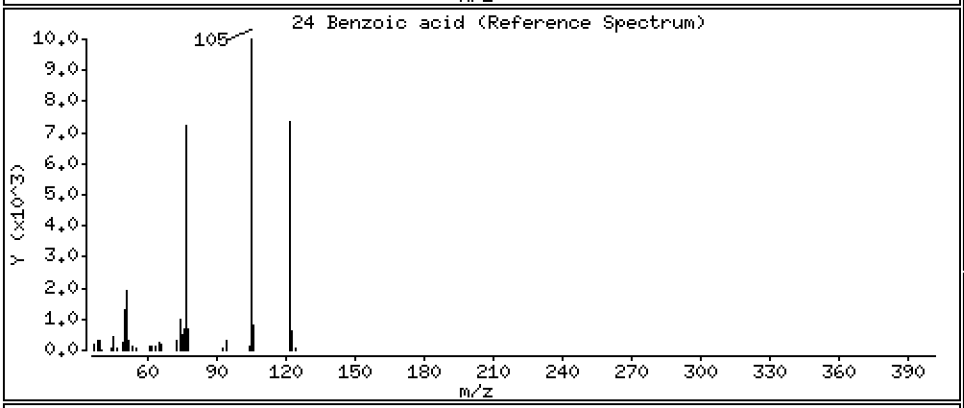
Concentration: 0.3766 ug/mL

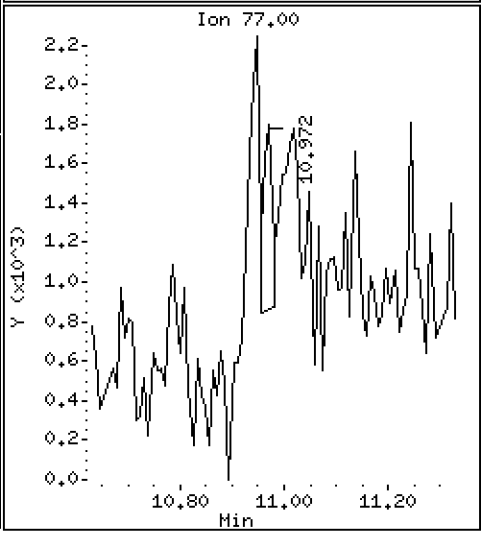


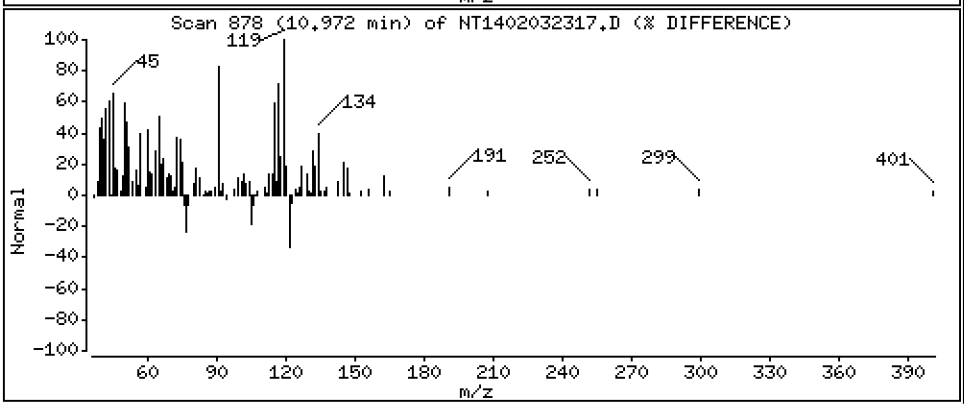












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

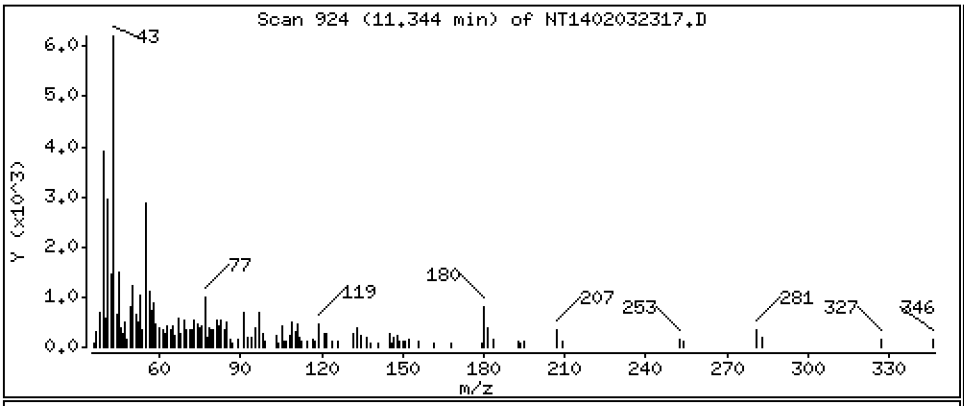
Operator: DSD

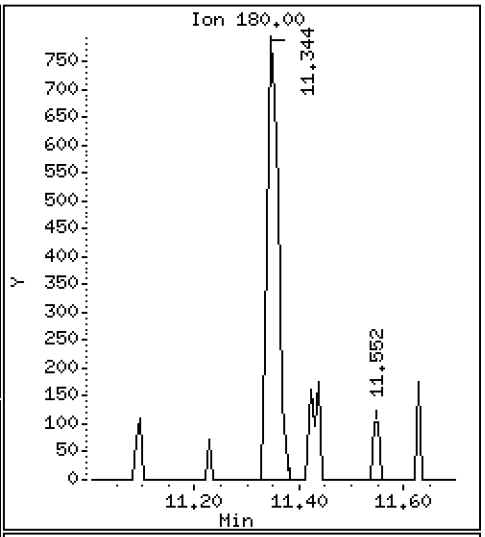
Column phase: ZB-5msi

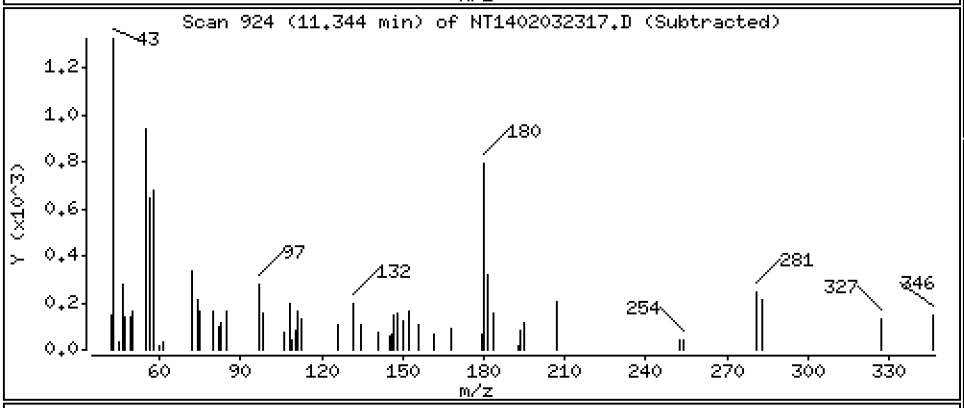
Column diameter: 0.25

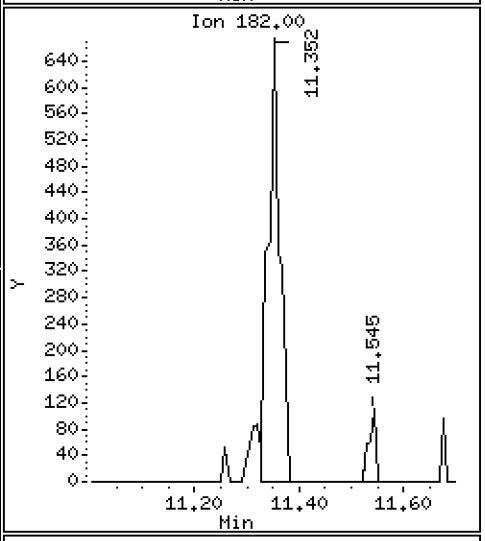
26 1,2,4-Trichlorobenzene

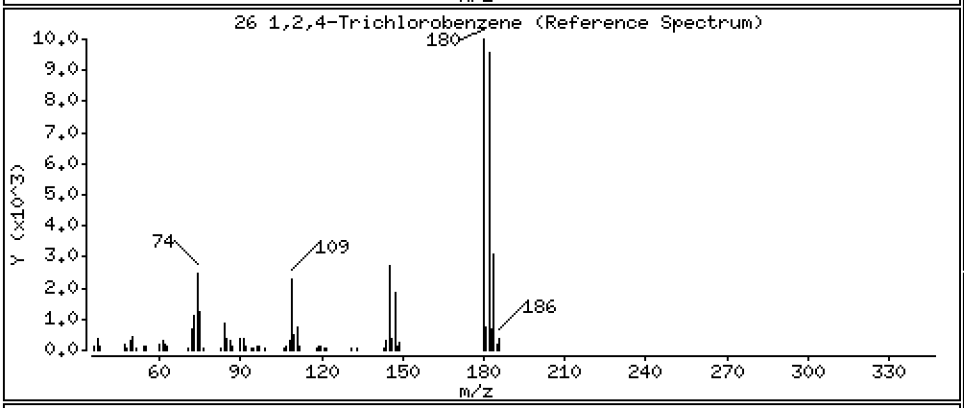
Concentration: 0.04798 ug/mL

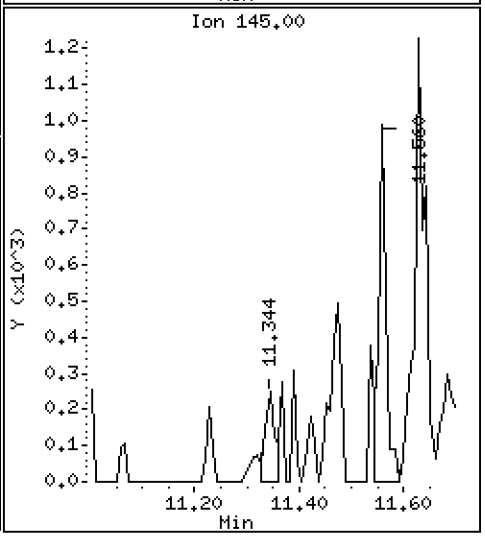


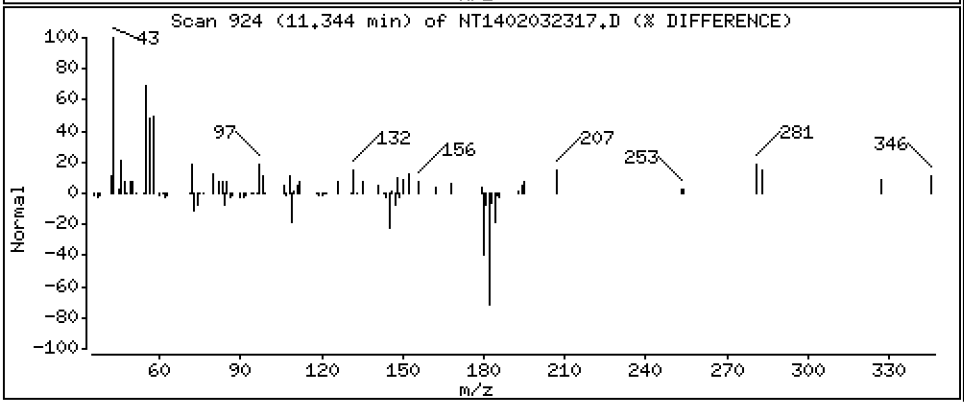












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

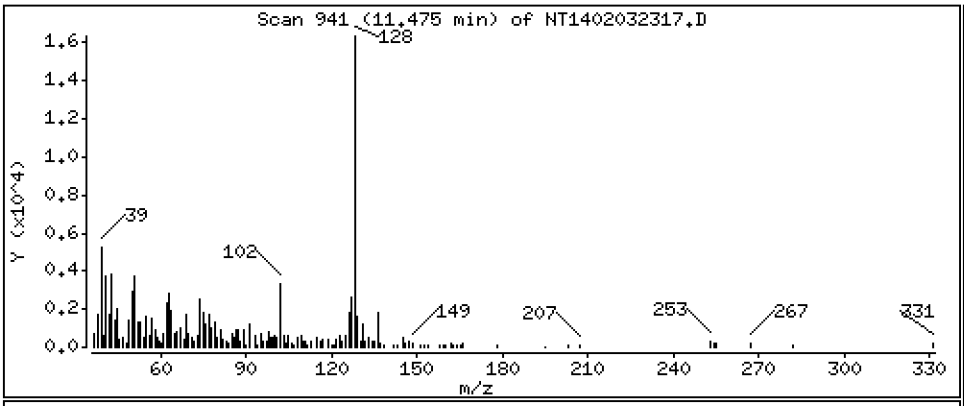
Operator: DSD

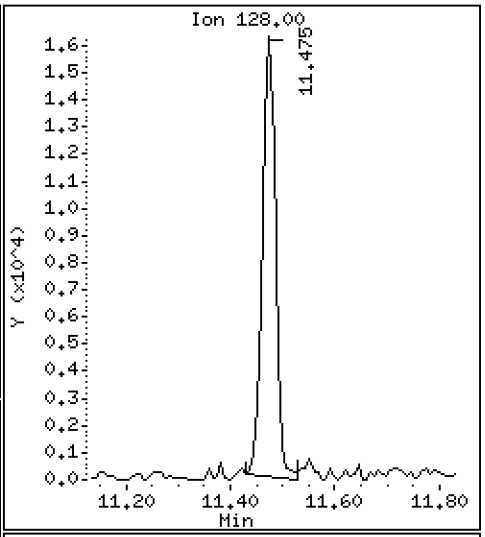
Column phase: ZB-5msi

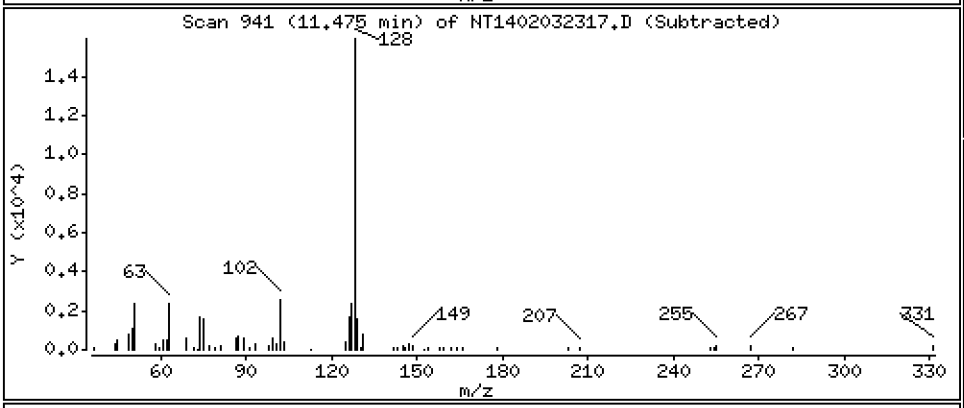
Column diameter: 0.25

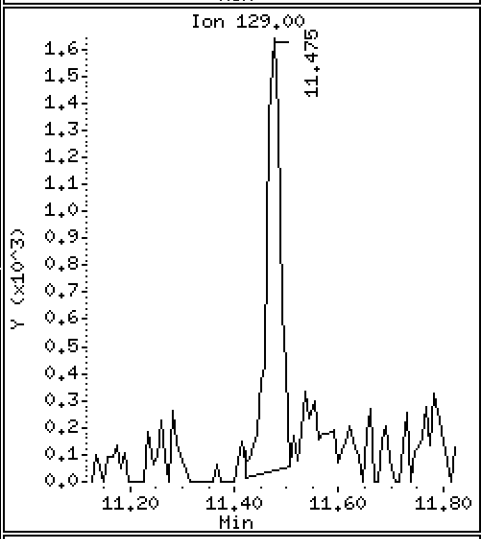
28 Naphthalene

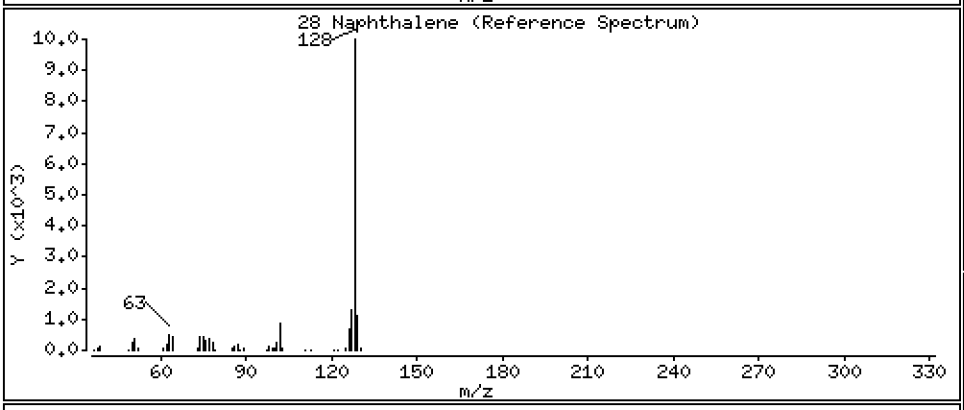
Concentration: 0.4469 ug/mL

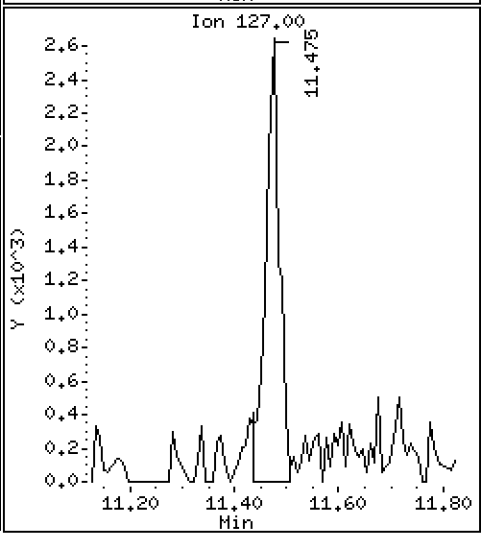


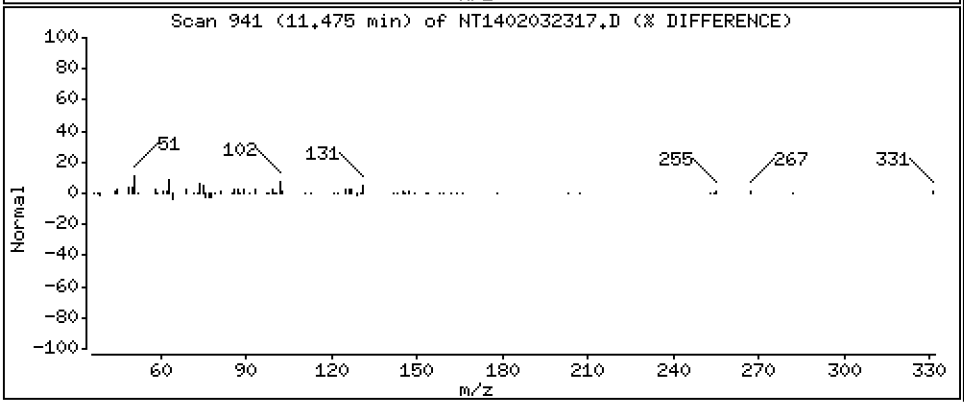












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

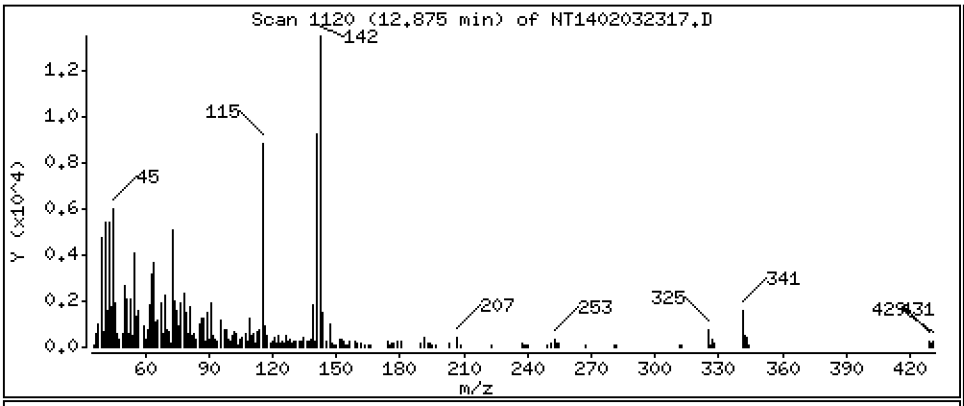
Operator: DSD

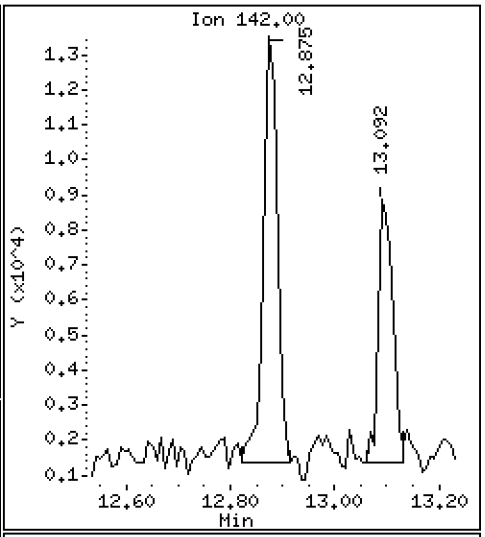
Column phase: ZB-5msi

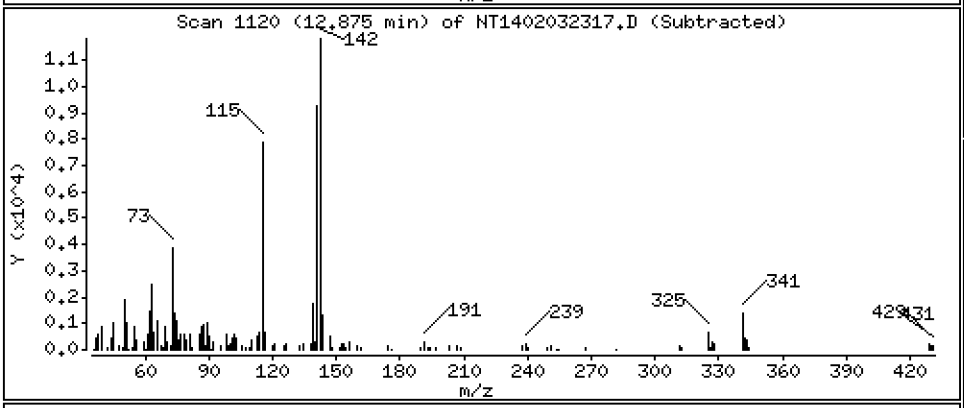
Column diameter: 0.25

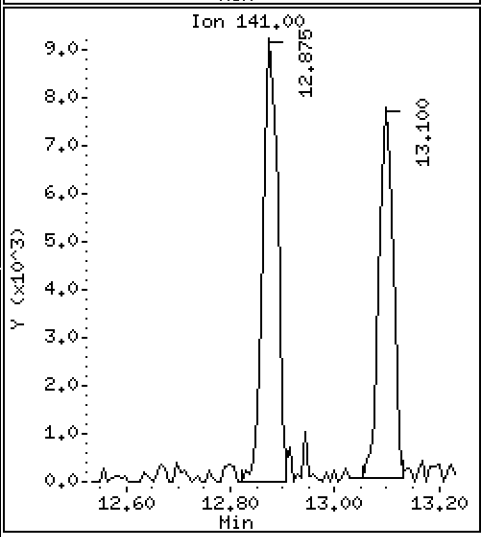
32 2-Methylnaphthalene

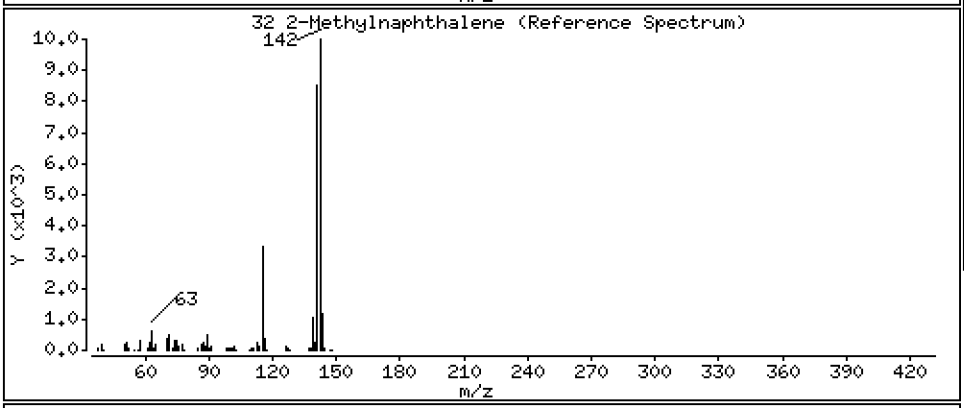
Concentration: 0.4397 ug/mL

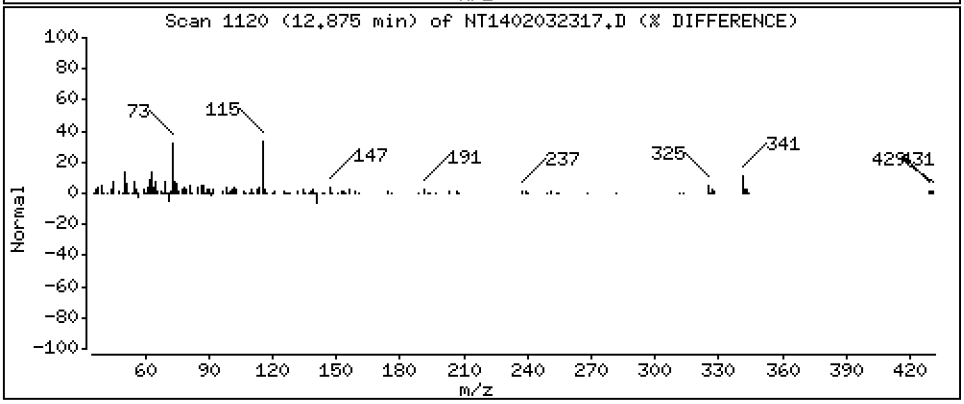












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

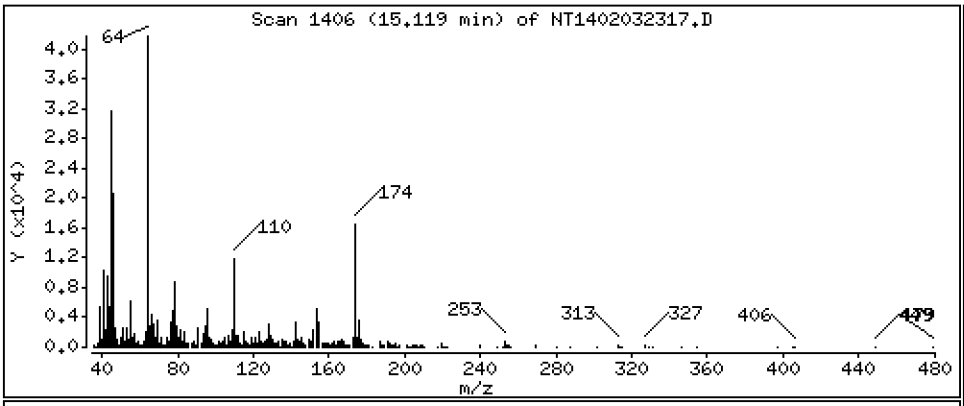
Operator: DSD

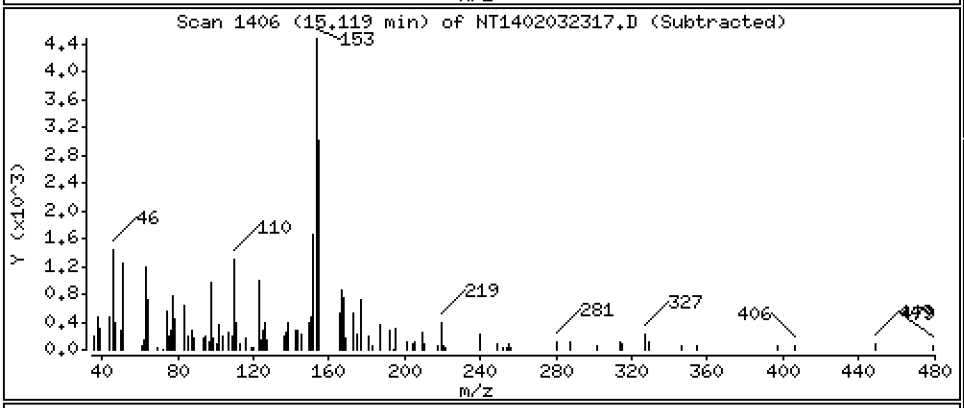
Column phase: ZB-5msi

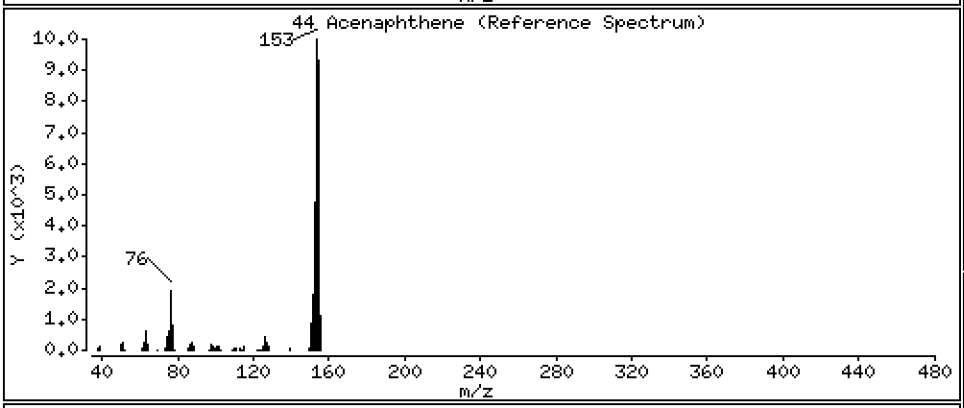
Column diameter: 0.25

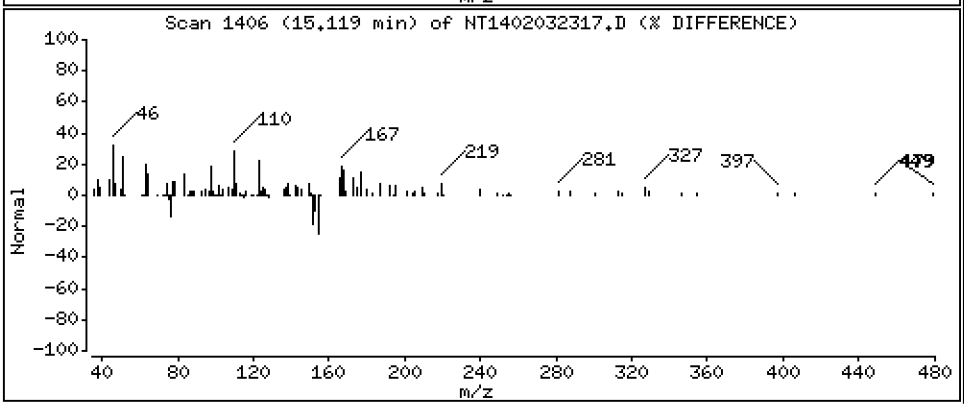
44 Acenaphthene

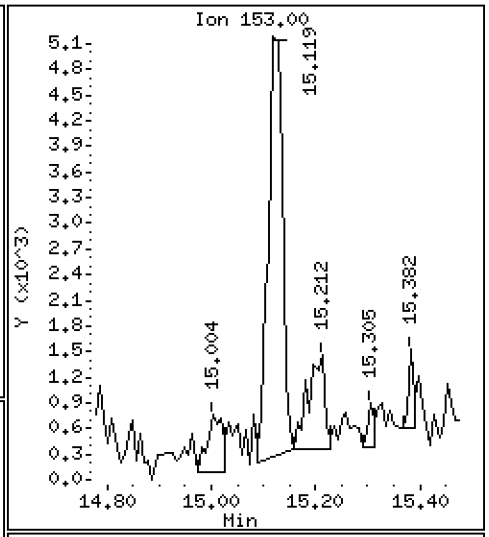
Concentration: 0.1830 ug/mL

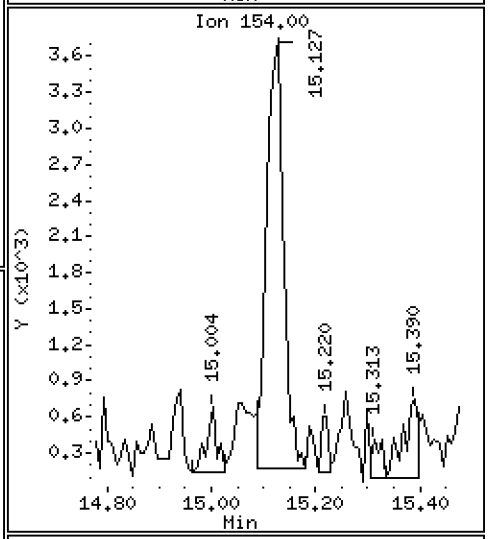


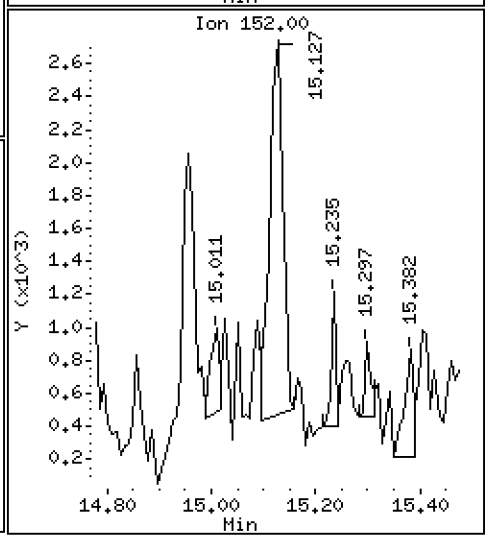












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032317.D

Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

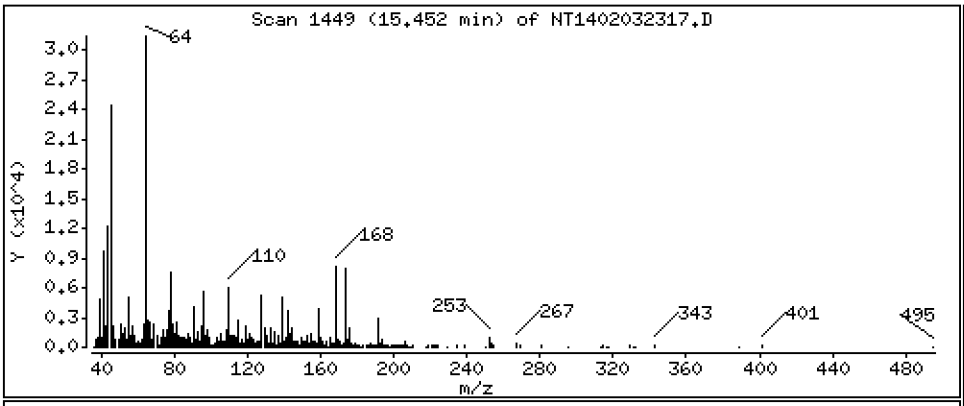
Operator: DSD

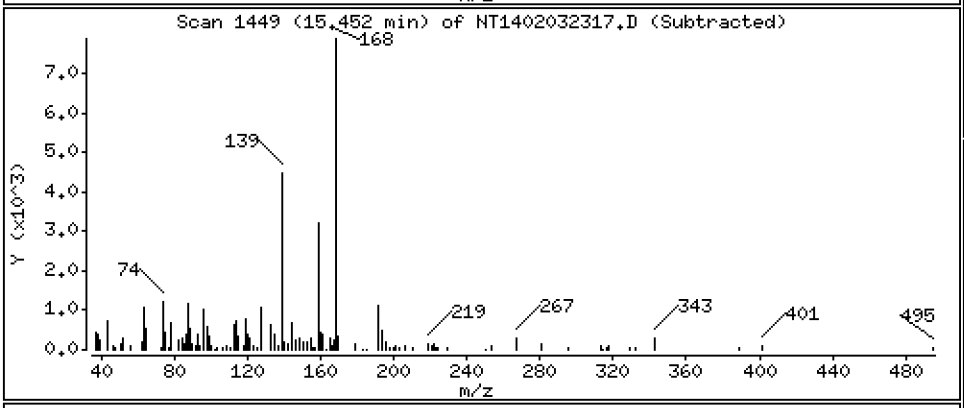
Column phase: ZB-5msi

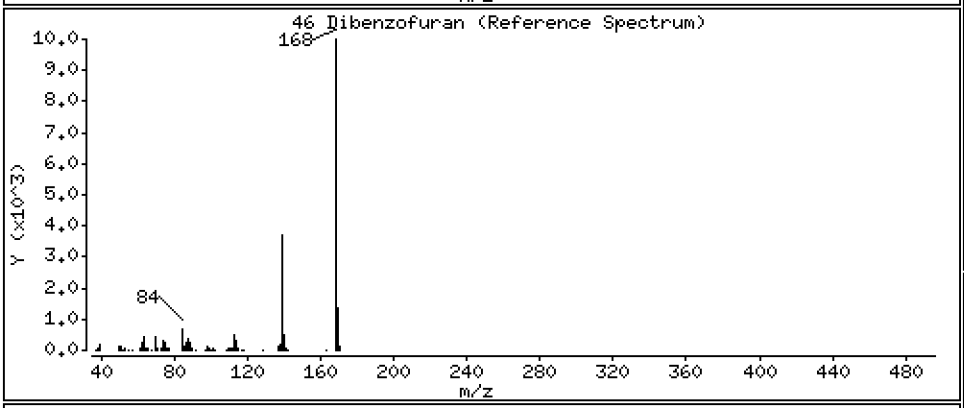
Column diameter: 0.25

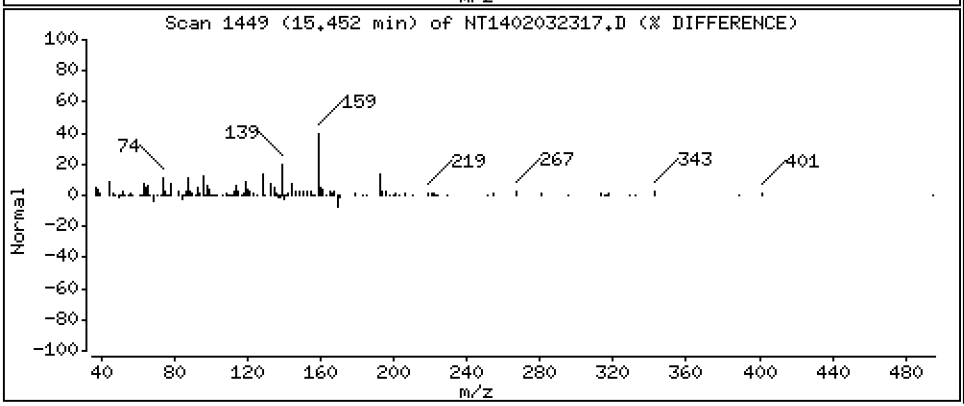
46 Dibenzofuran

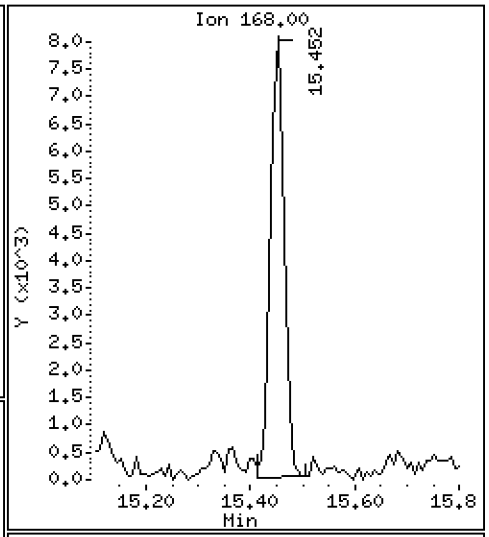
Concentration: 0.1988 ug/mL

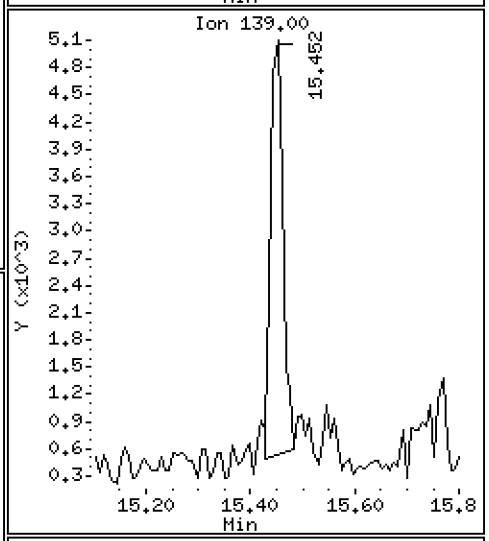


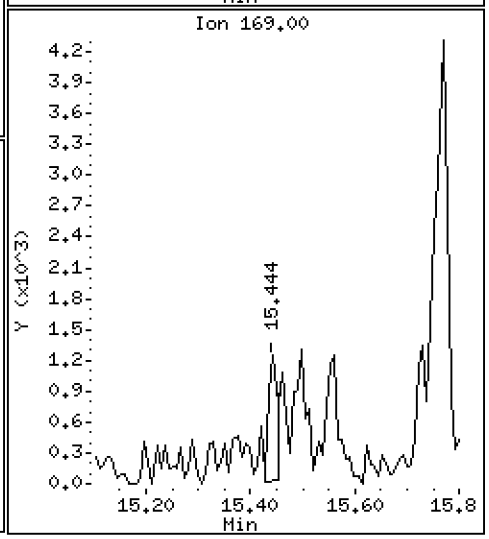












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

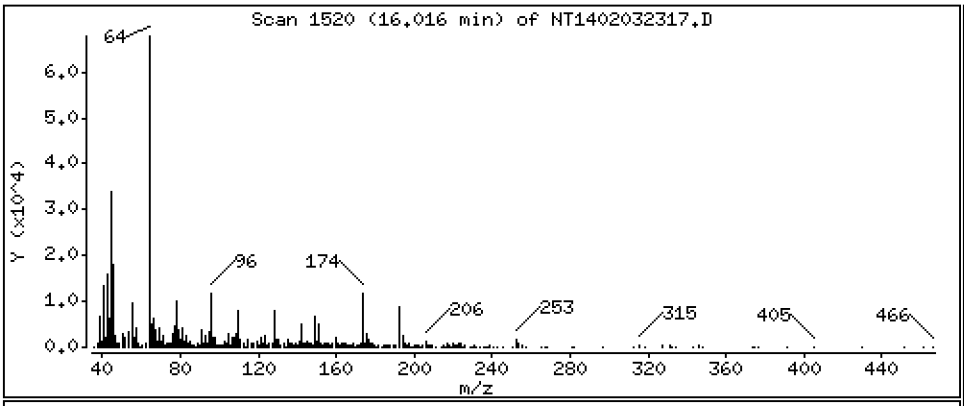
Operator: DSD

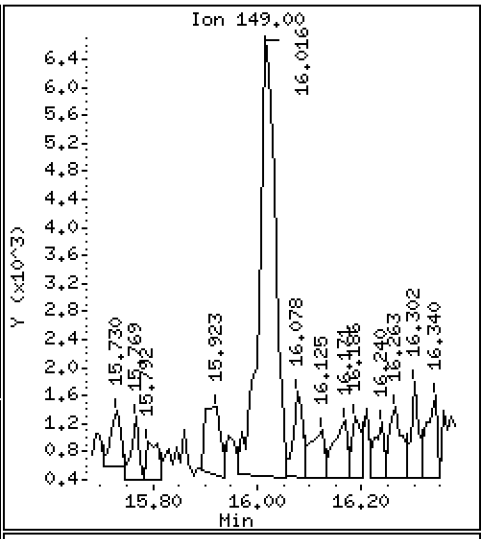
Column phase: ZB-5msi

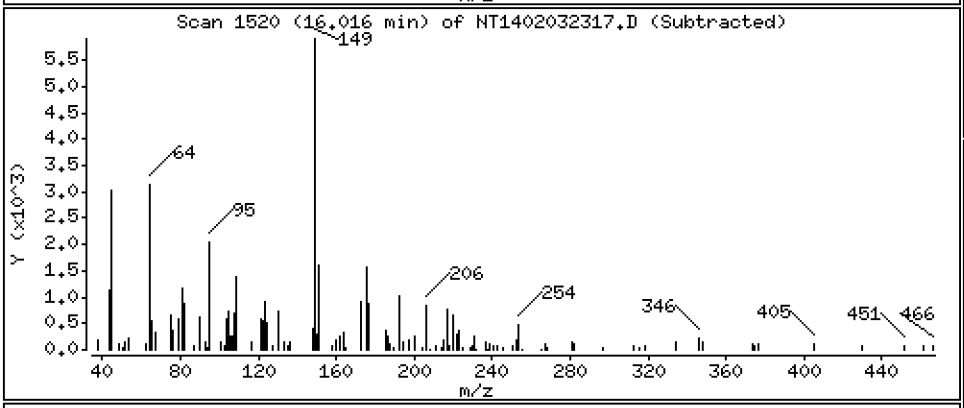
Column diameter: 0.25

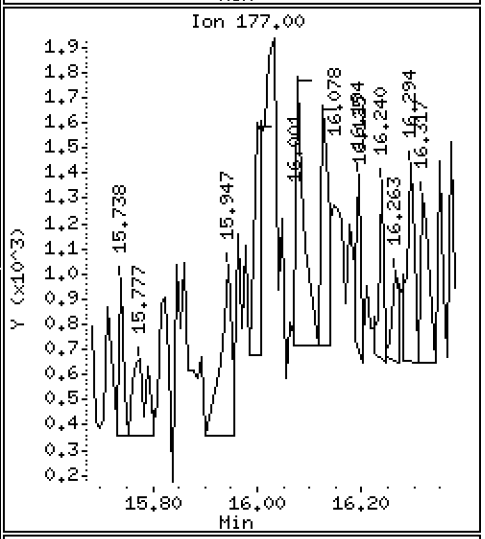
50 Diethylphthalate

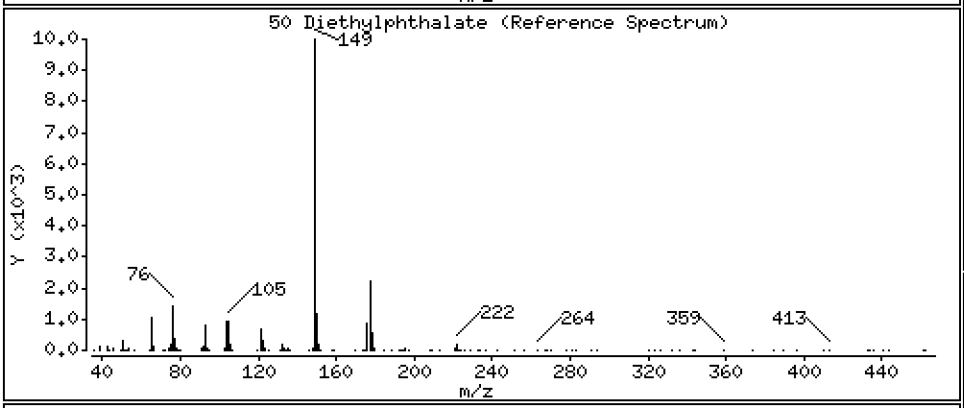
Concentration: 0.1527 ug/mL

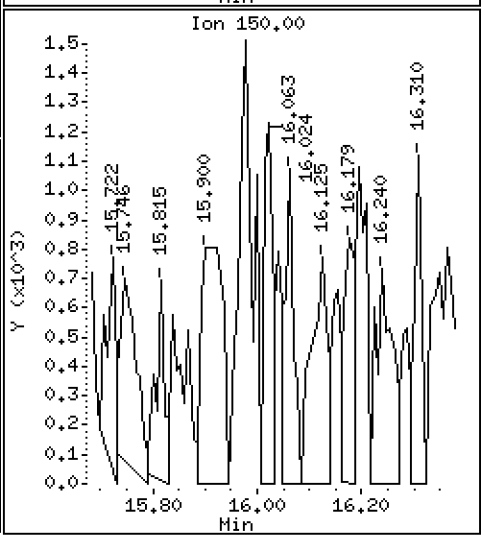


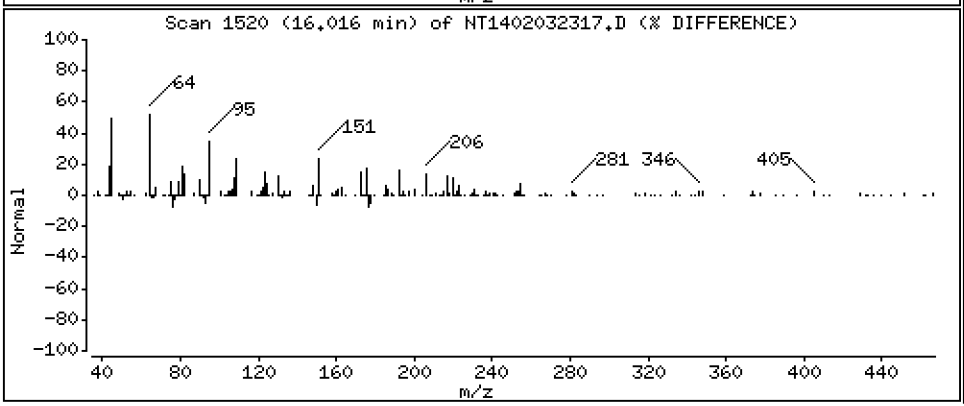












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

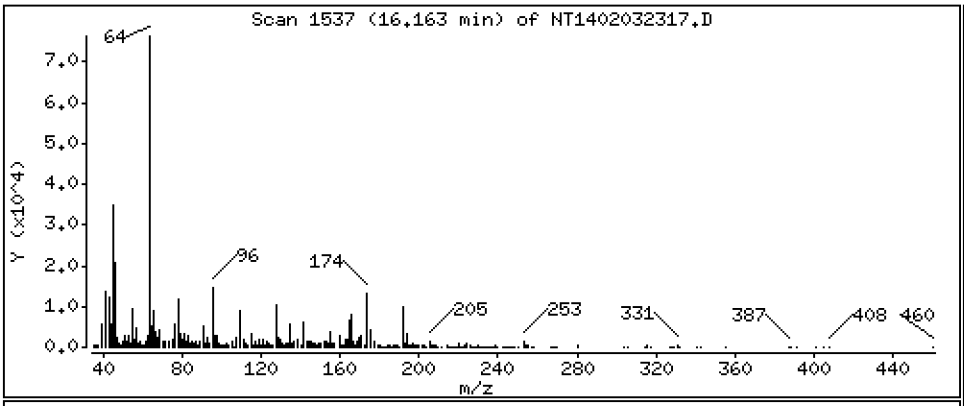
Operator: DSD

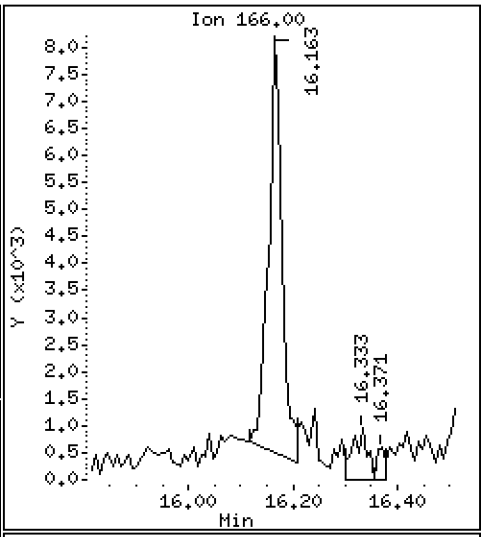
Column phase: ZB-5msi

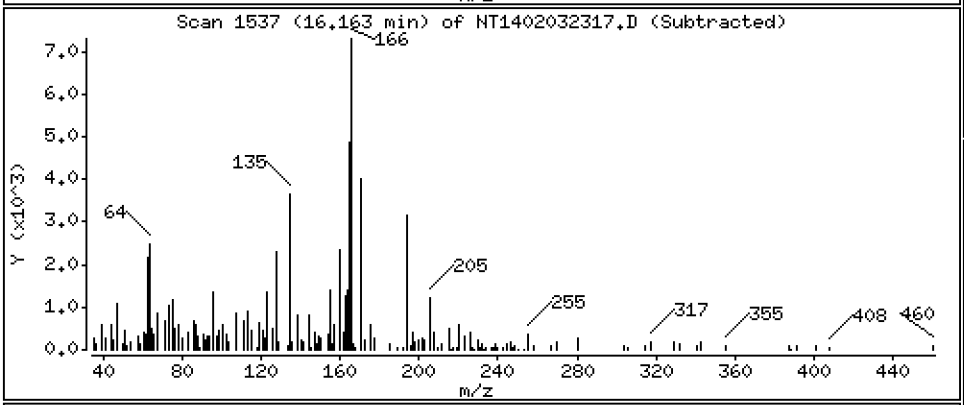
Column diameter: 0.25

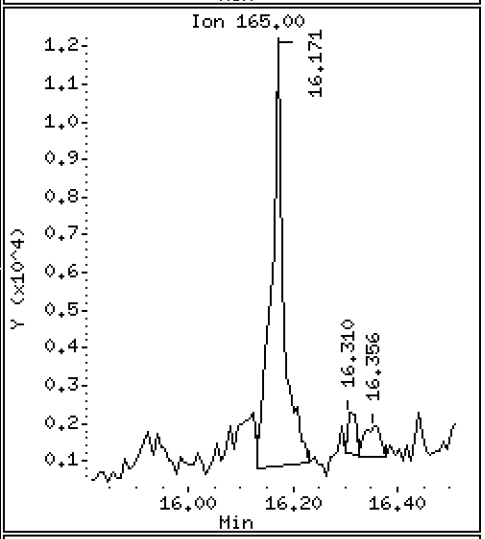
49 Fluorene

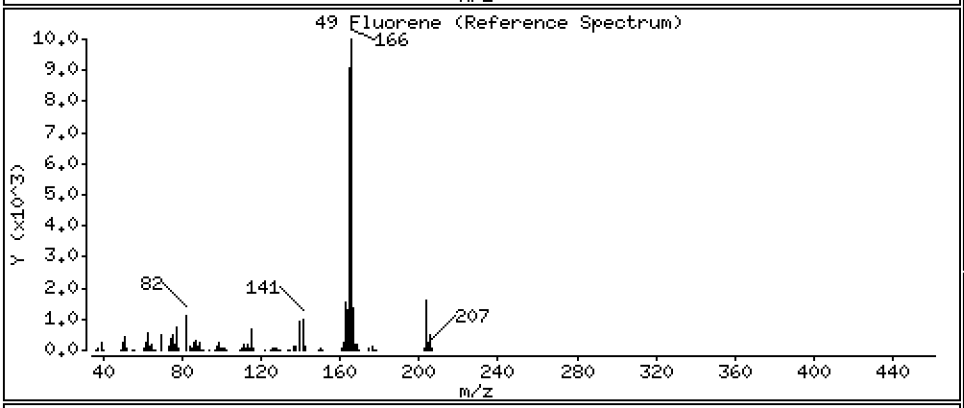
Concentration: 0.1588 ug/mL

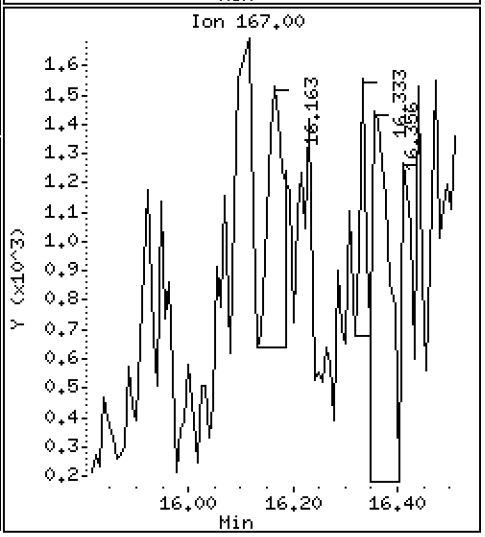


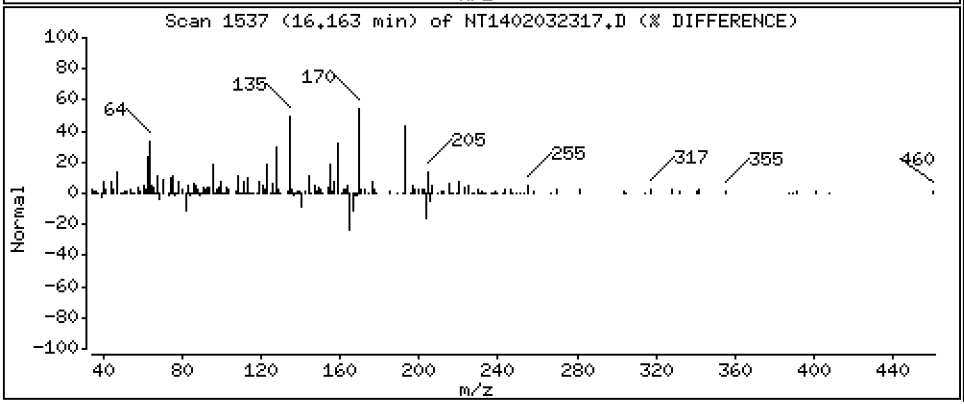












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

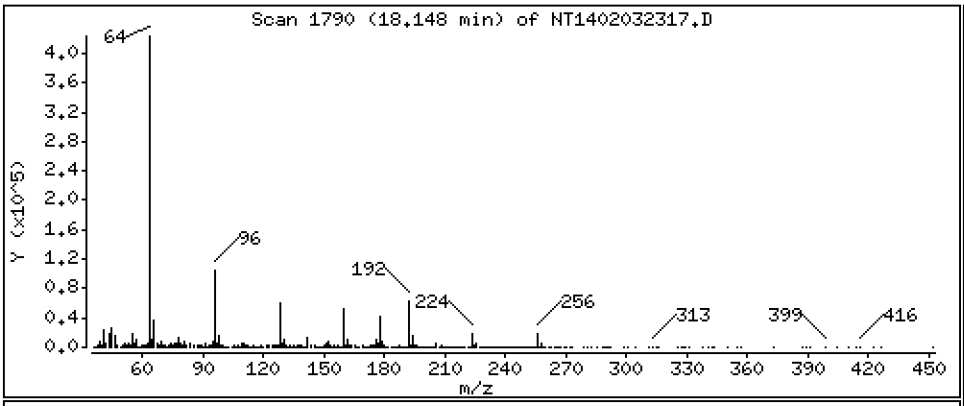
Operator: DSD

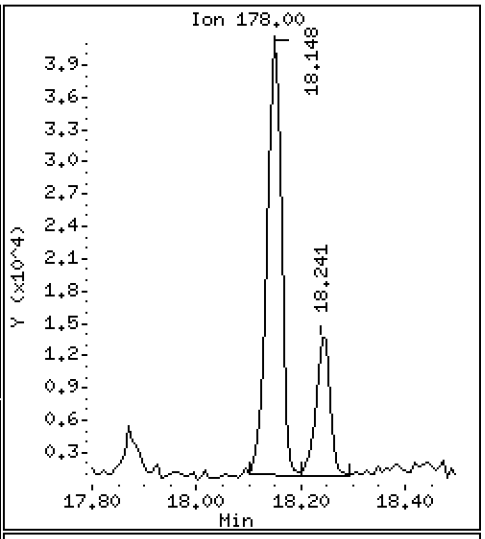
Column phase: ZB-5msi

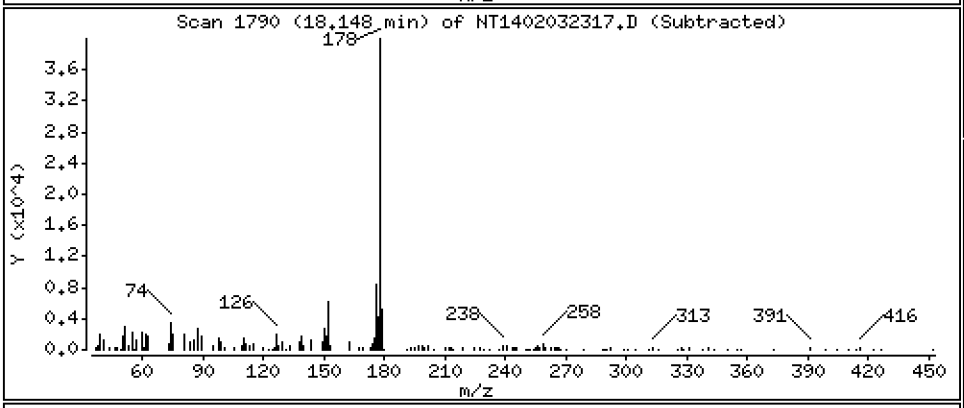
Column diameter: 0.25

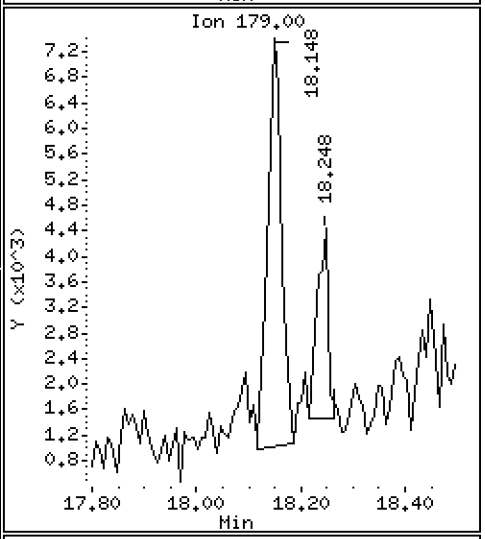
60 Phenanthrene

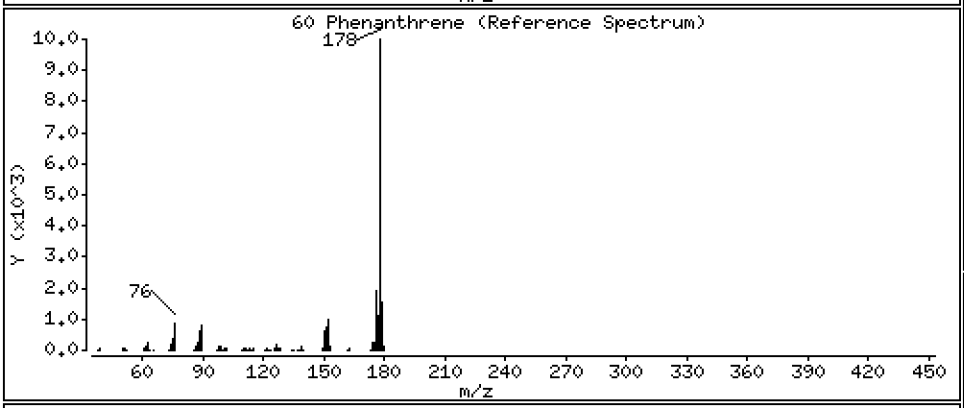
Concentration: 0.9164 ug/mL

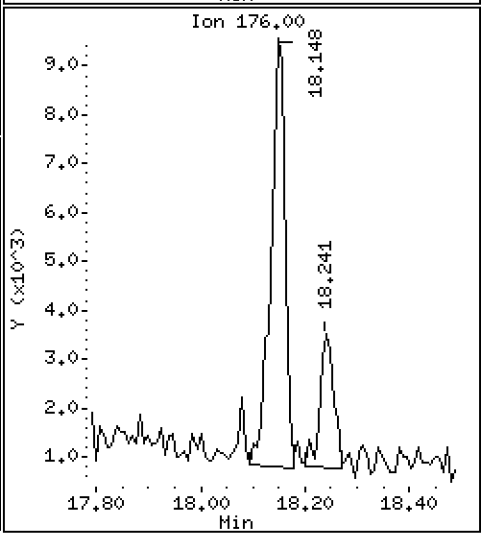


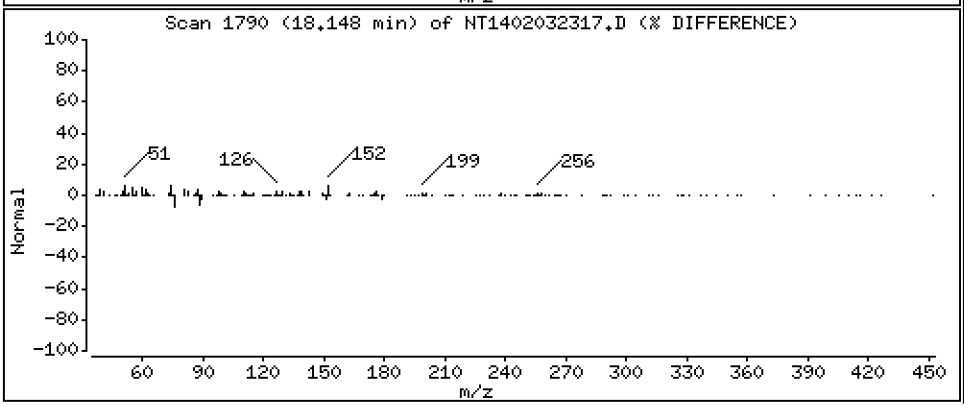












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

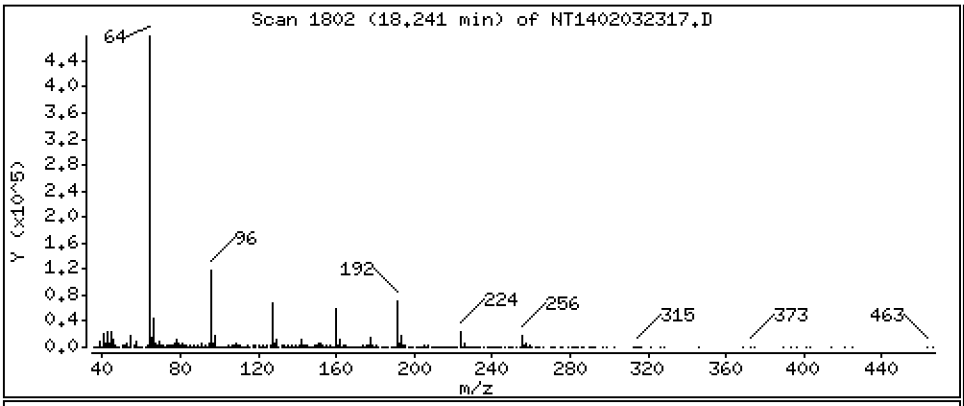
Operator: DSD

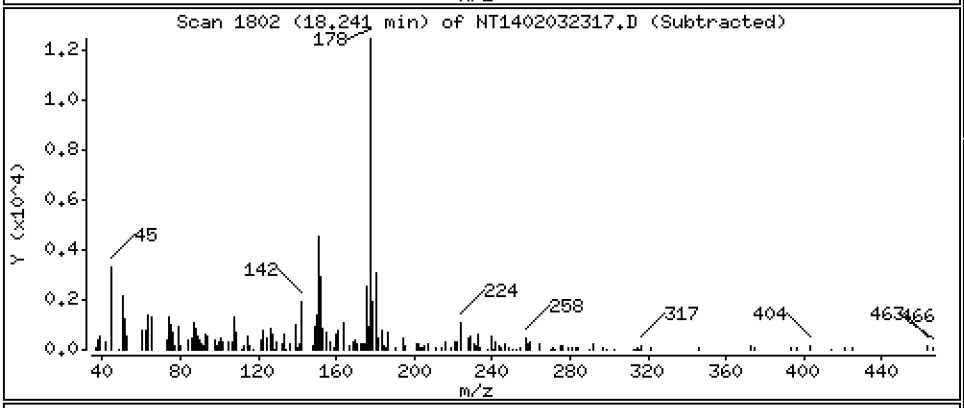
Column phase: ZB-5msi

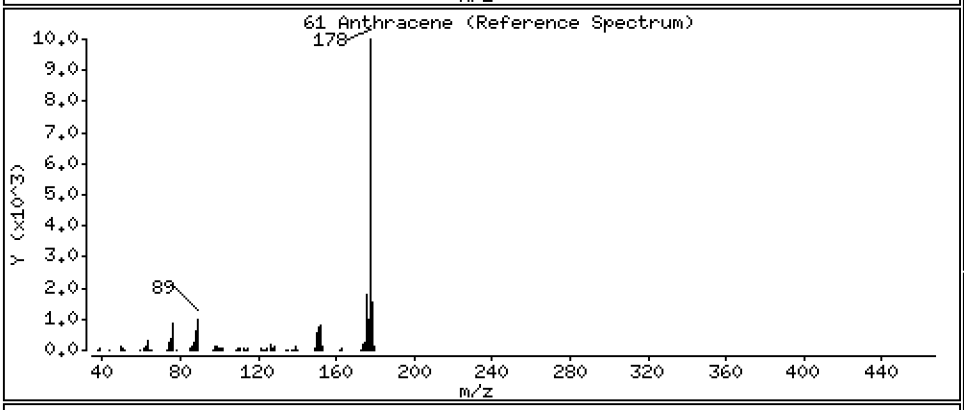
Column diameter: 0.25

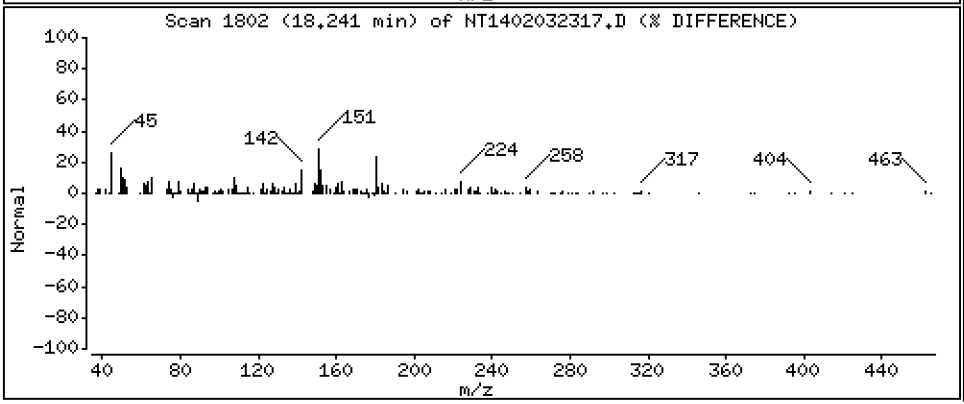
61 Anthracene

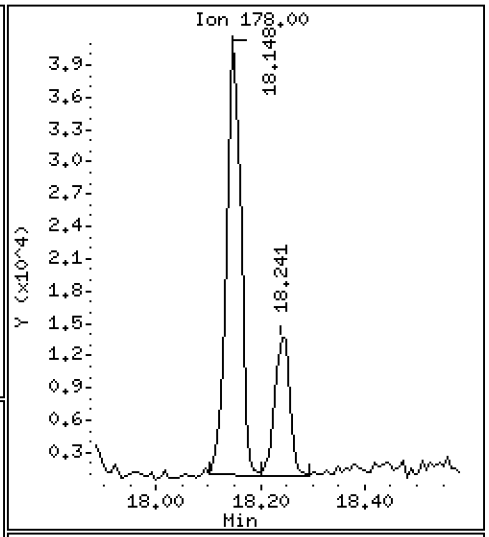
Concentration: 0.3156 ug/mL

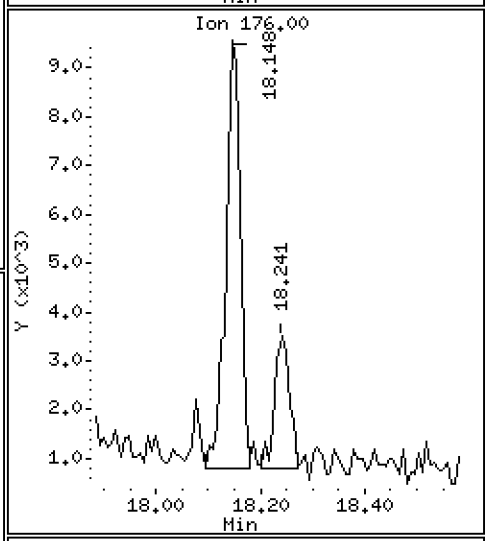


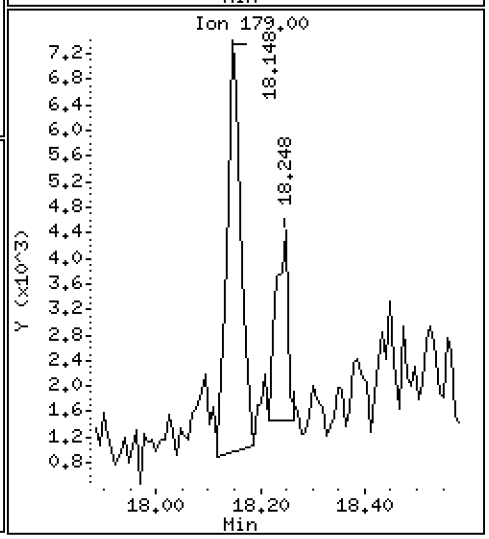












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

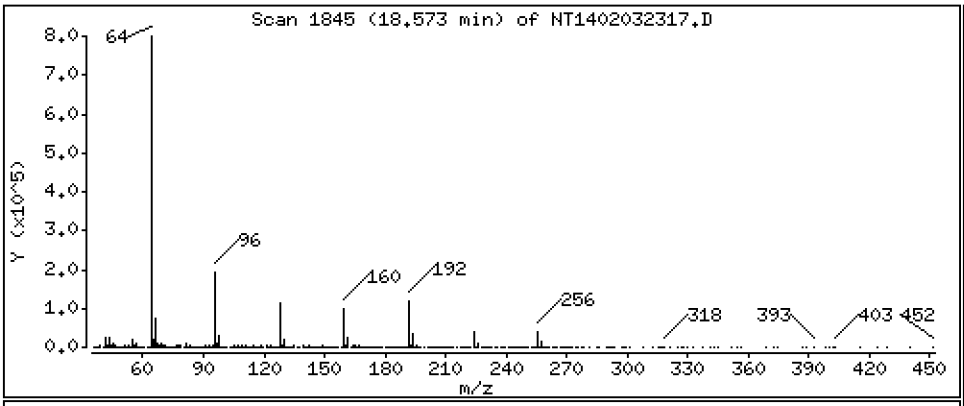
Operator: DSD

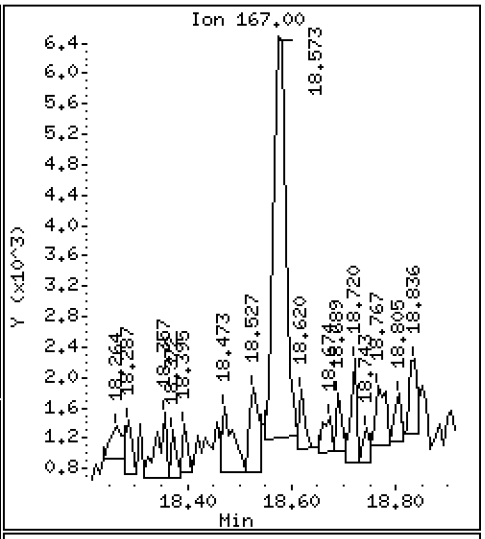
Column phase: ZB-5msi

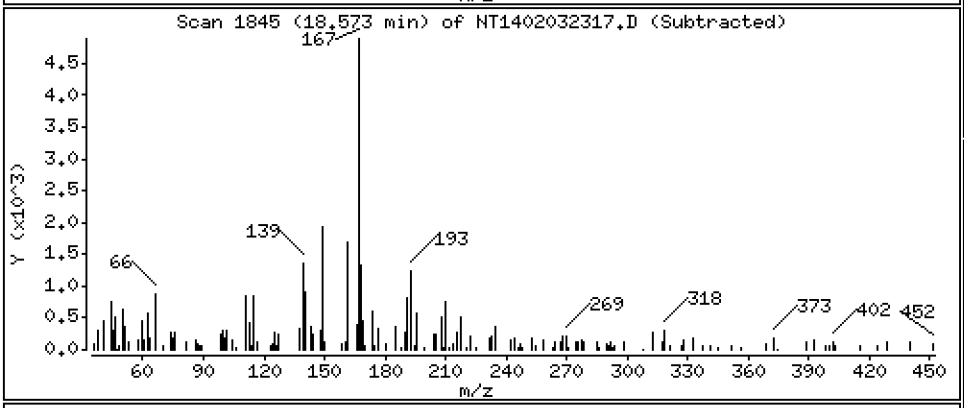
Column diameter: 0.25

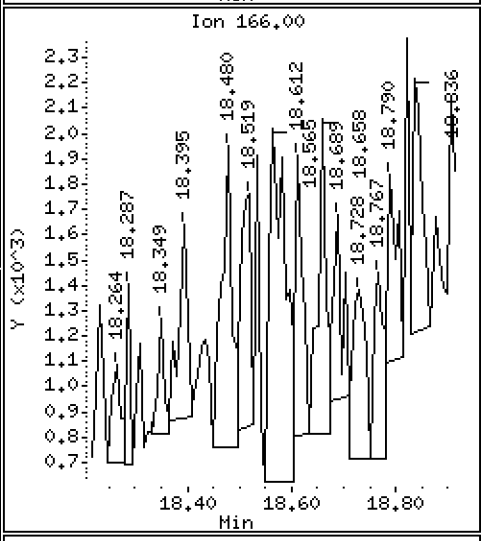
62 Carbazole

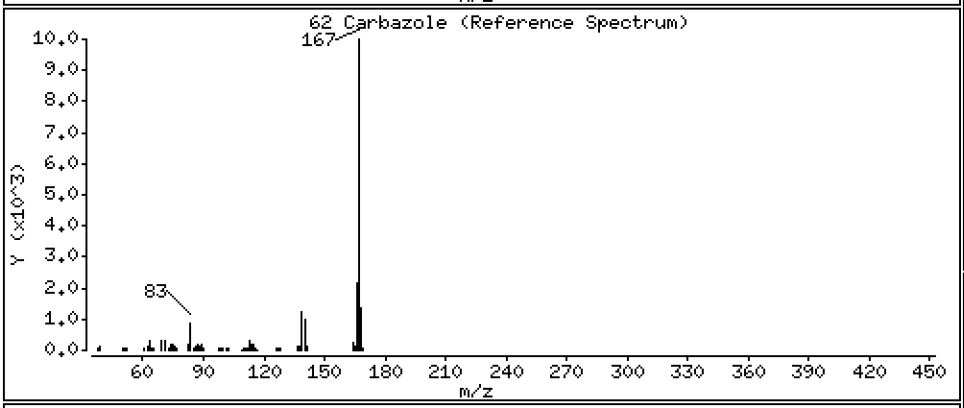
Concentration: 0.1169 ug/mL

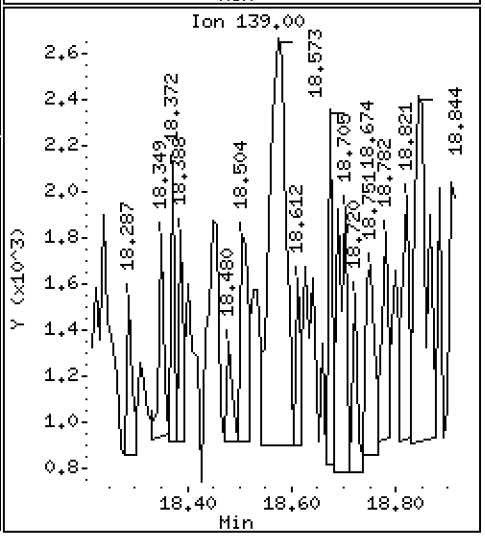


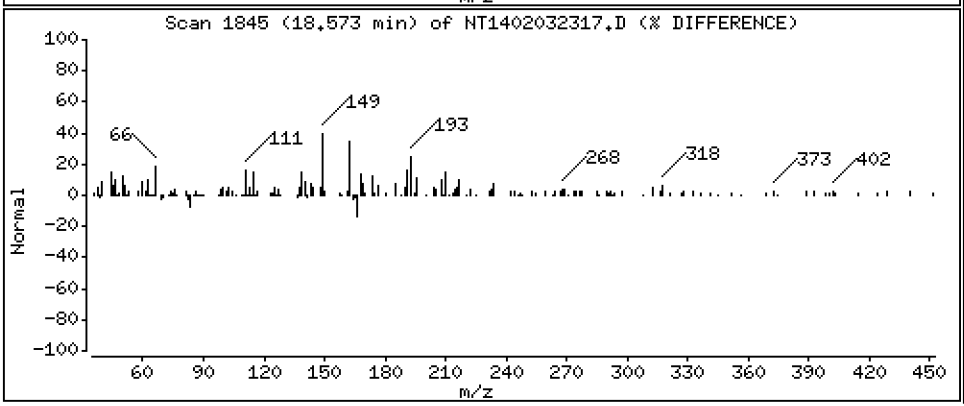












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

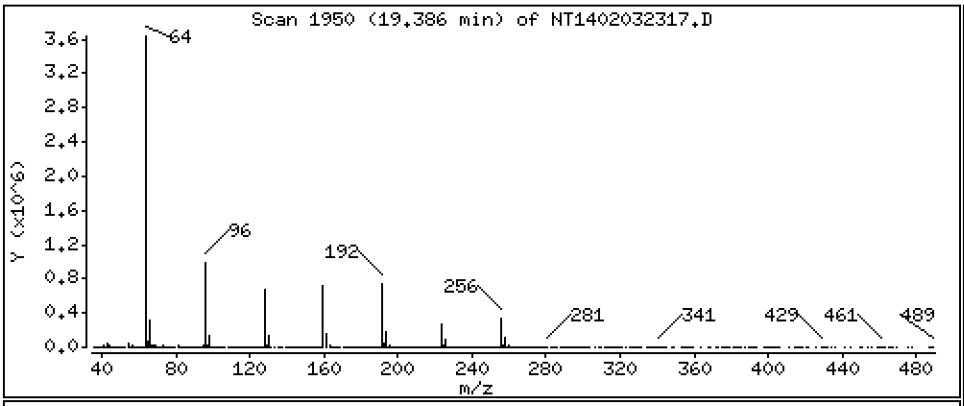
Operator: DSD

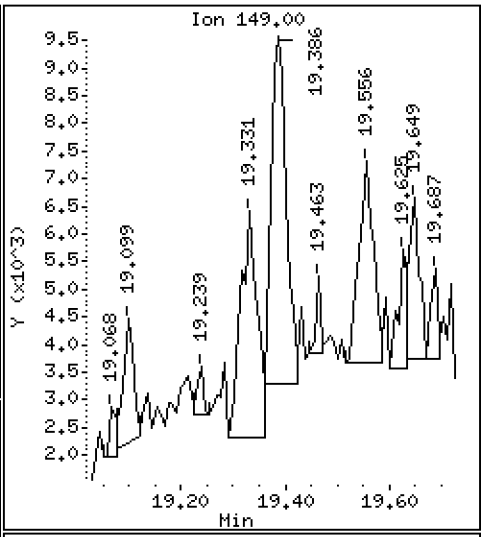
Column phase: ZB-5msi

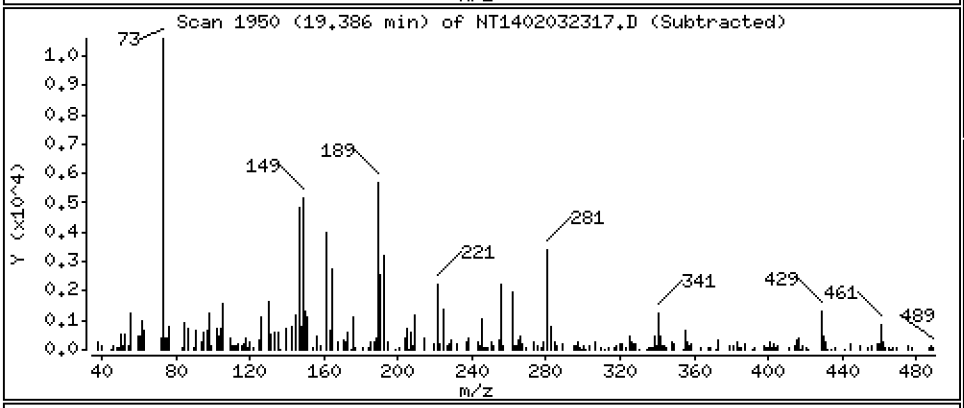
Column diameter: 0.25

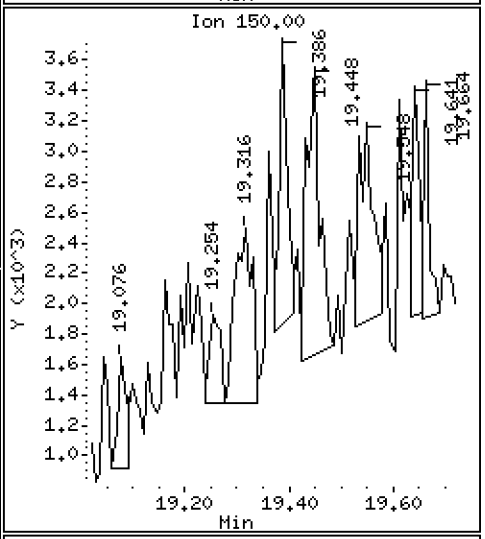
63 Di-n-butylphthalate

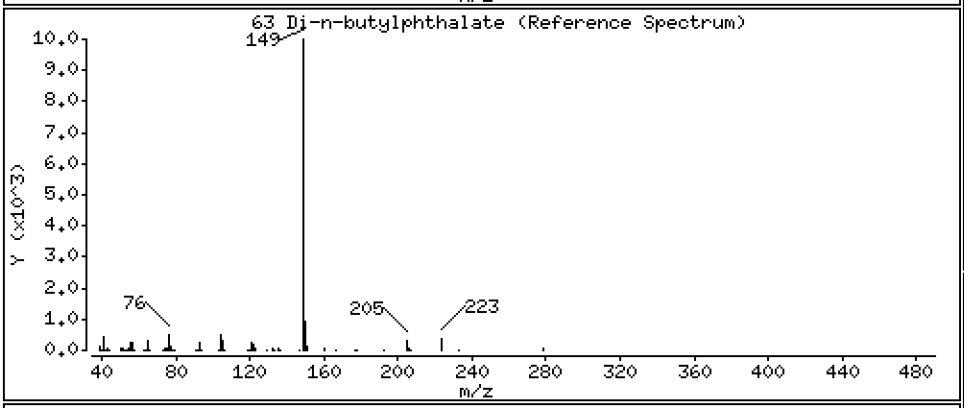
Concentration: 0.1120 ug/mL

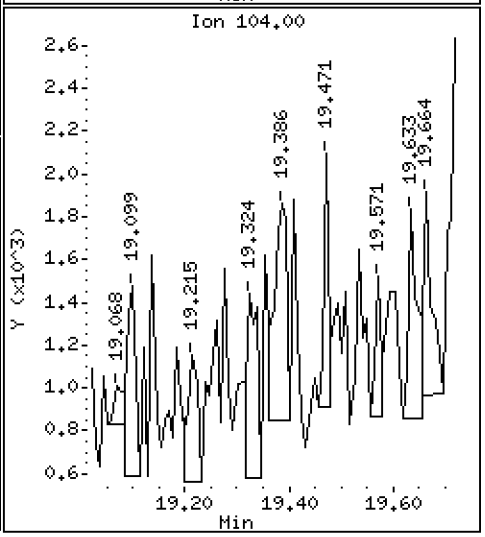


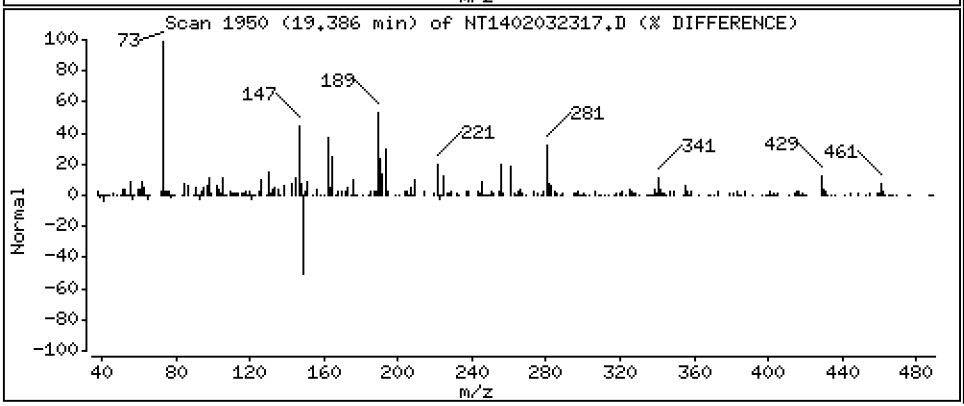












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032317.D

Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

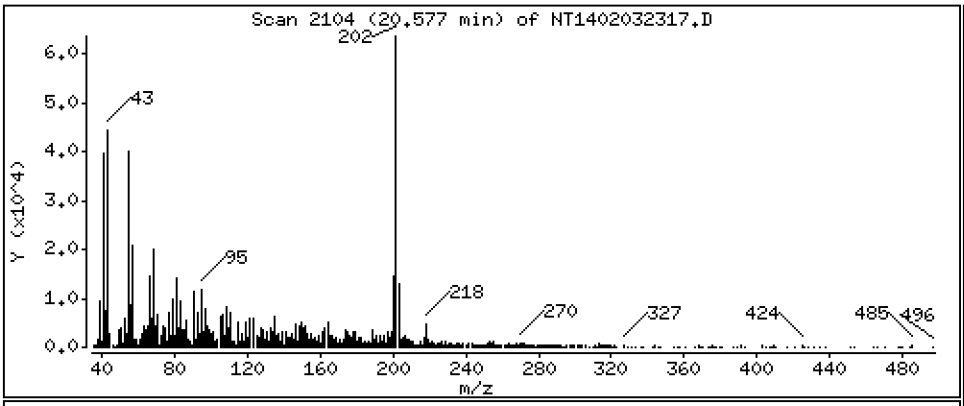
Operator: DSD

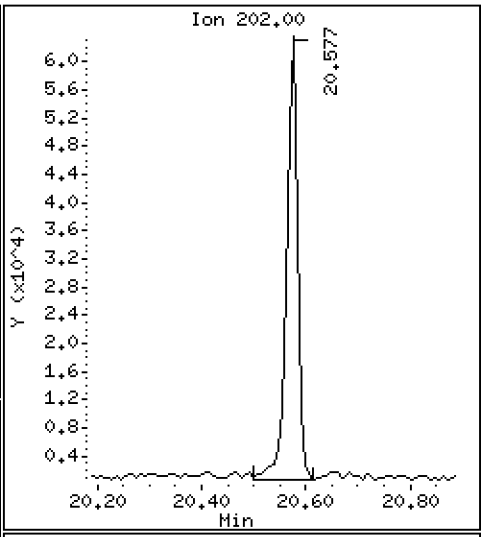
Column phase: ZB-5msi

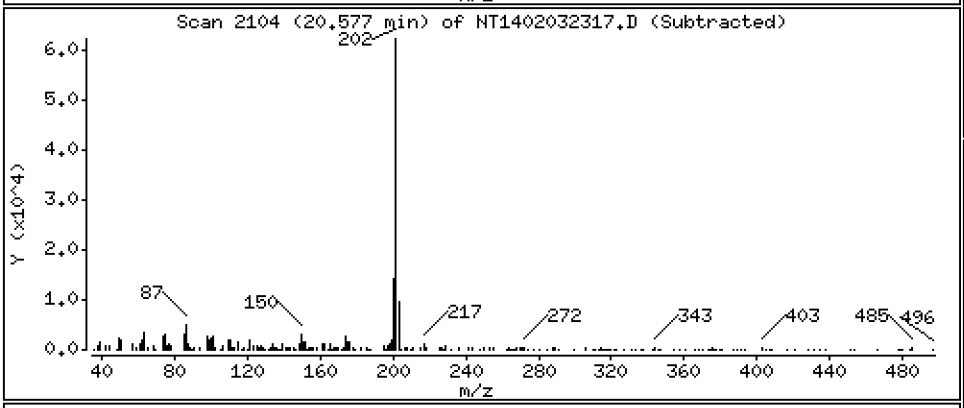
Column diameter: 0.25

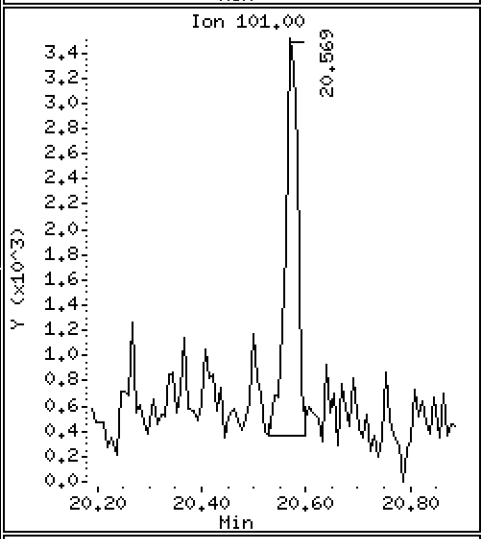
64 Fluoranthene

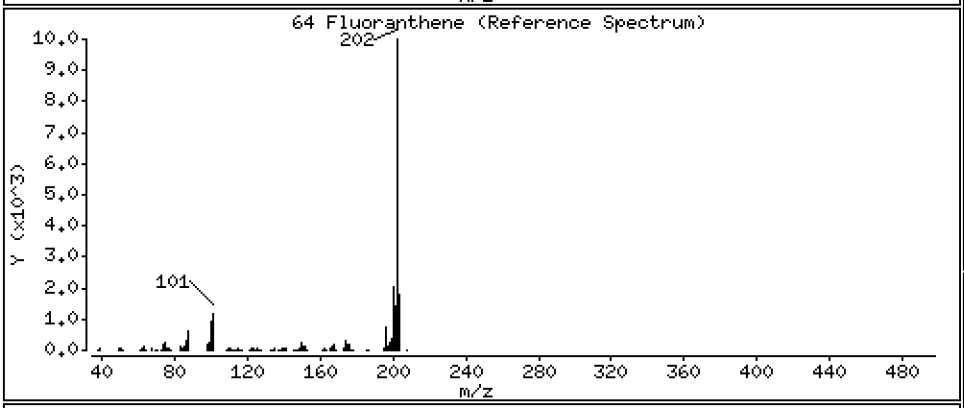
Concentration: 2.278 ug/mL

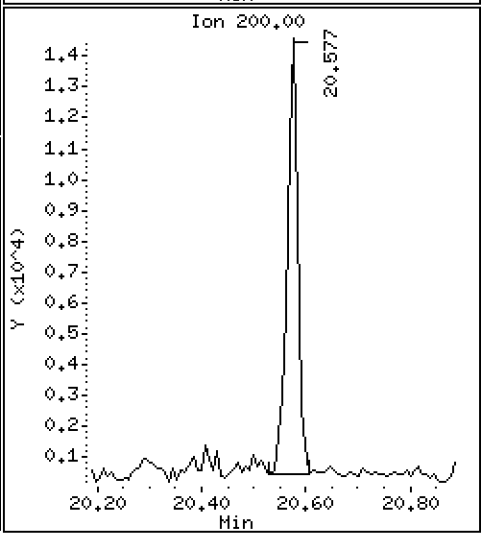


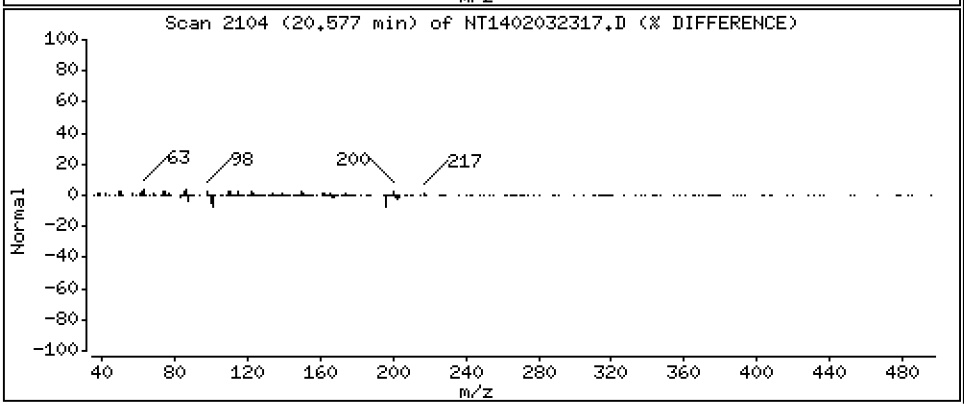












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

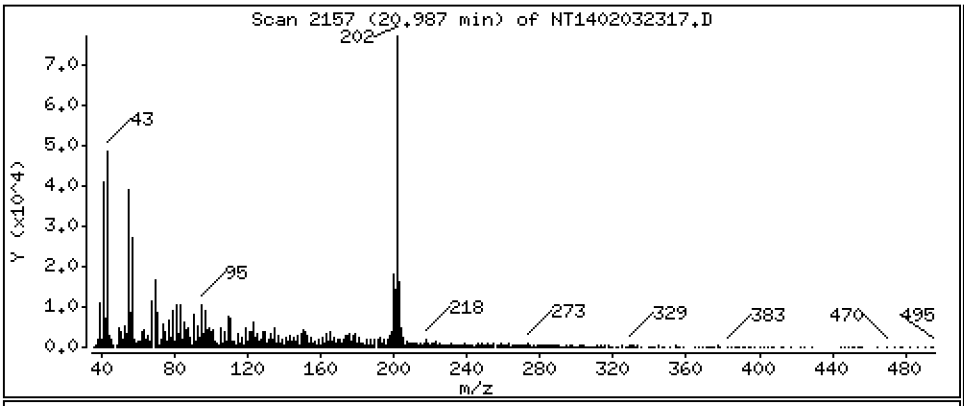
Operator: DSD

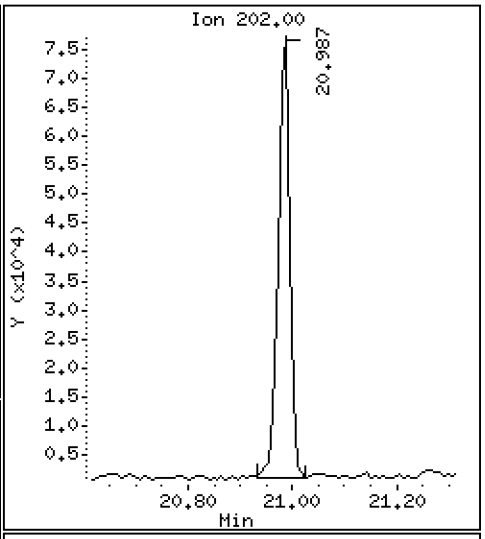
Column phase: ZB-5msi

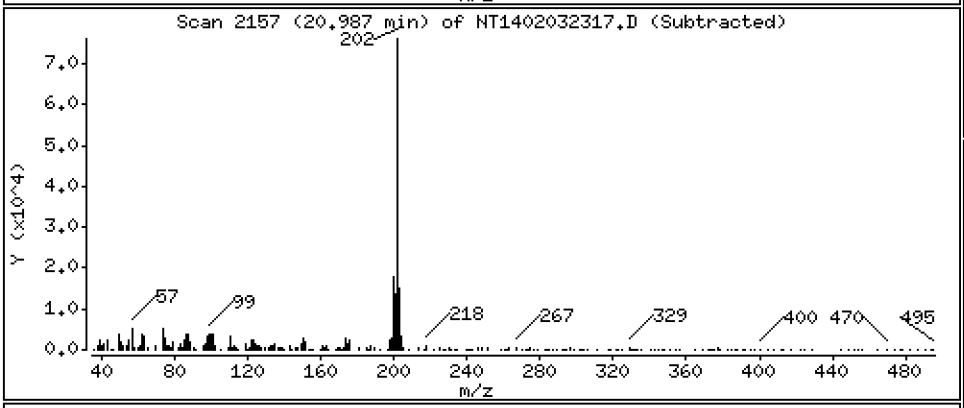
Column diameter: 0.25

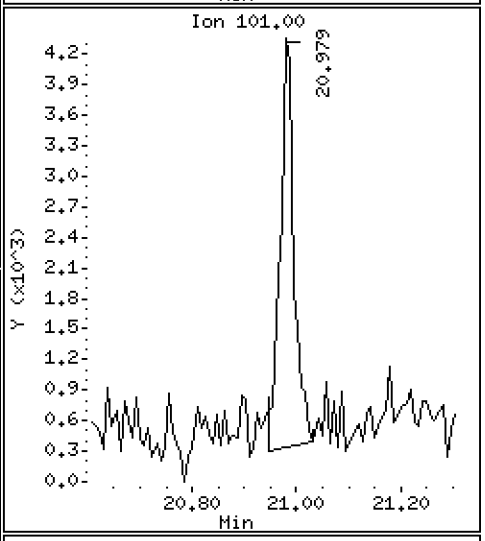
65 Pyrene

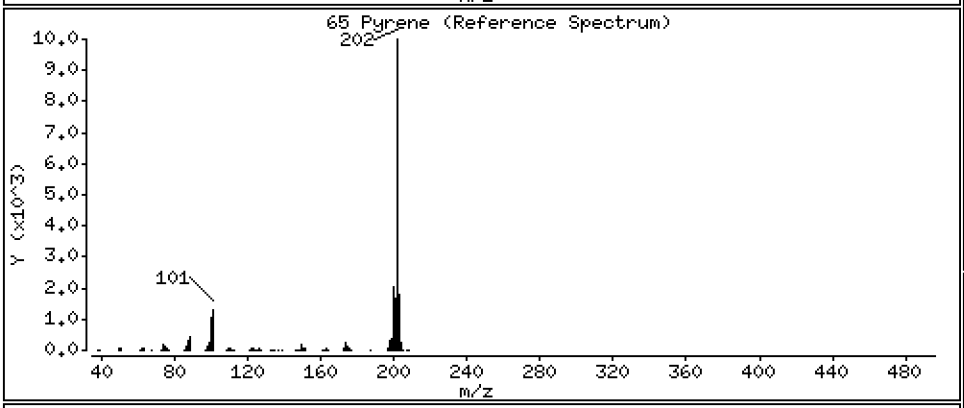
Concentration: 2.787 ug/mL

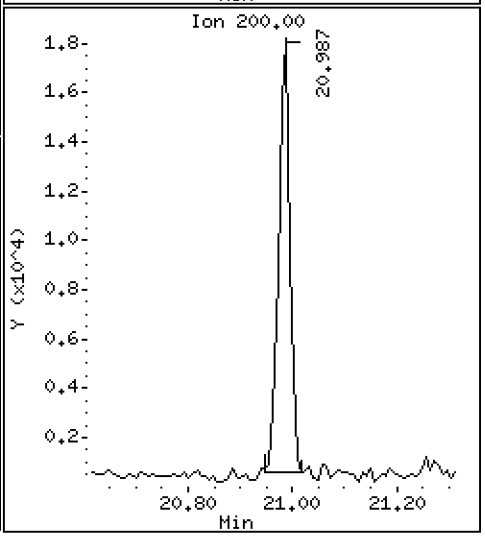


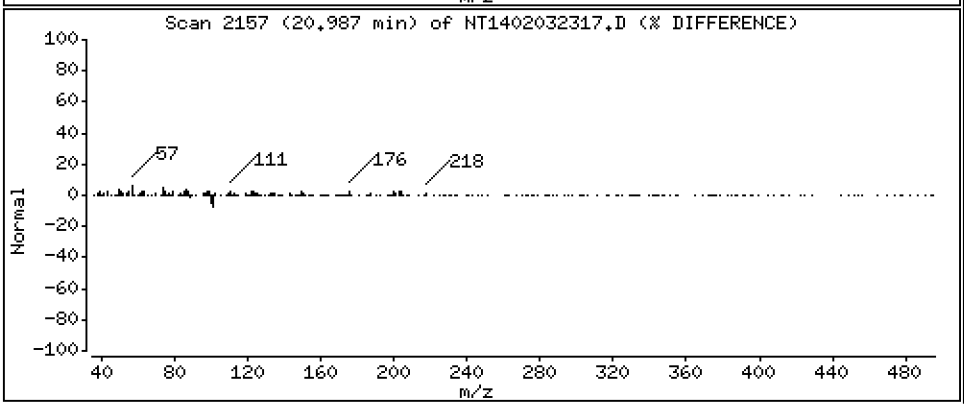












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

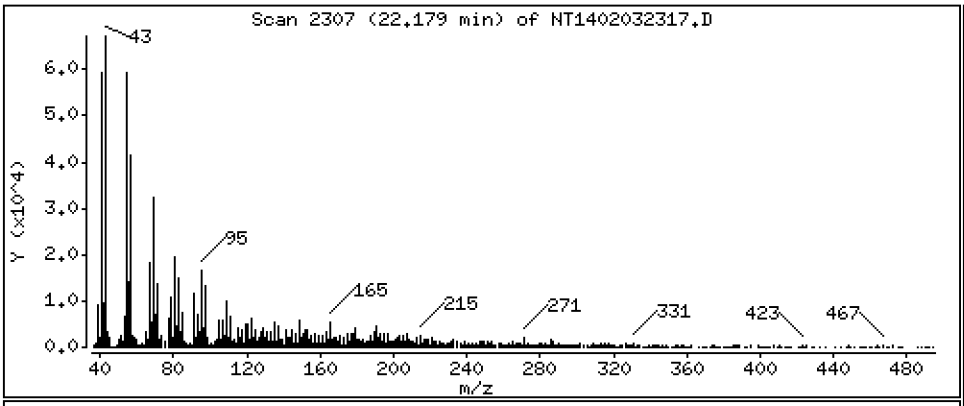
Operator: DSD

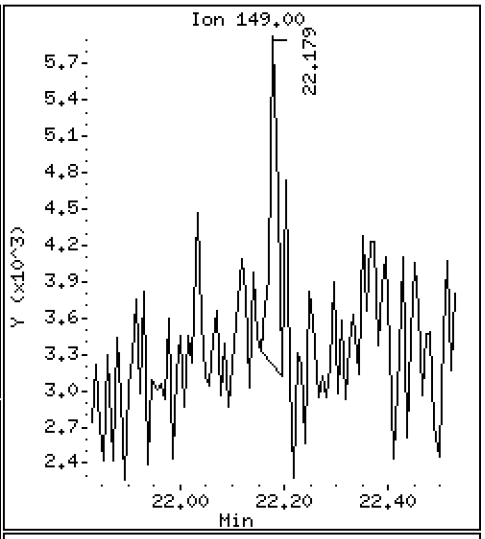
Column phase: ZB-5msi

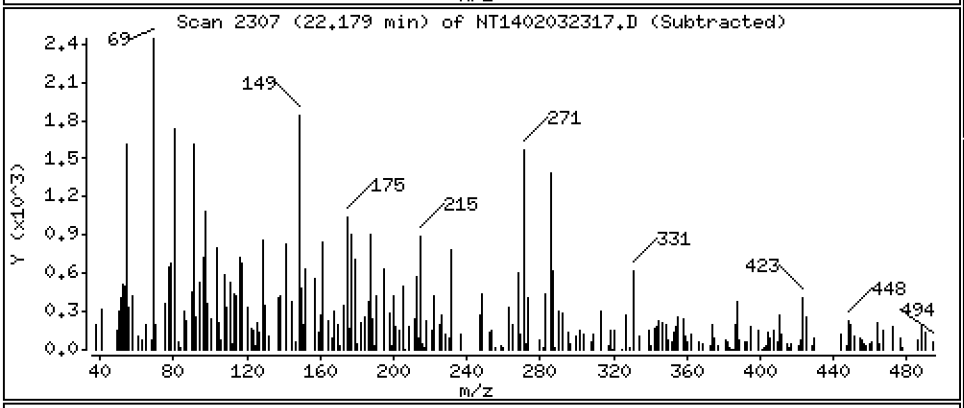
Column diameter: 0.25

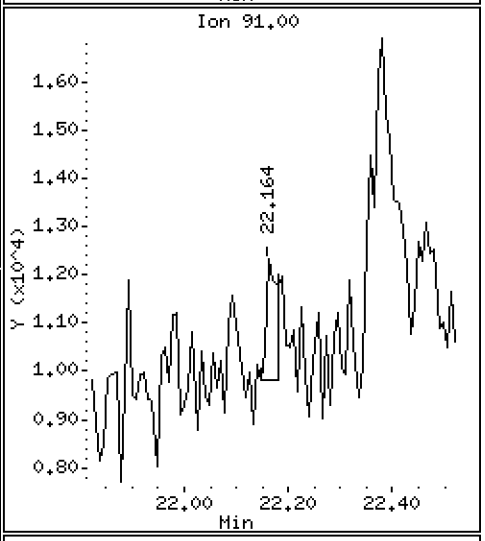
67 Butylbenzylphthalate

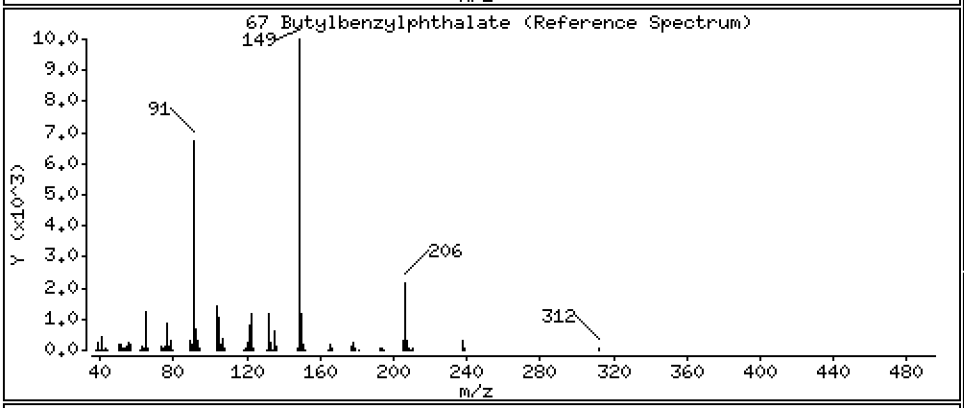
Concentration: 0.1071 ug/mL

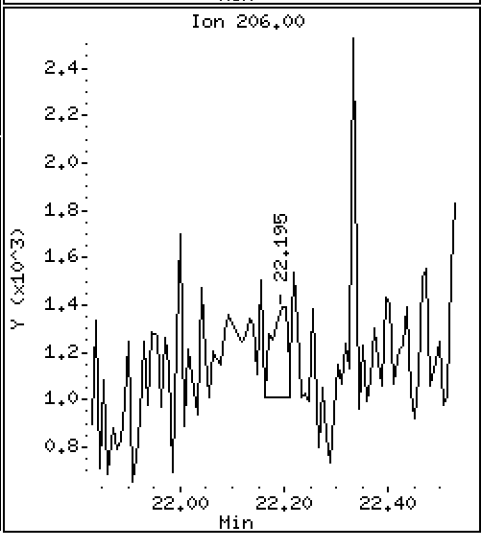


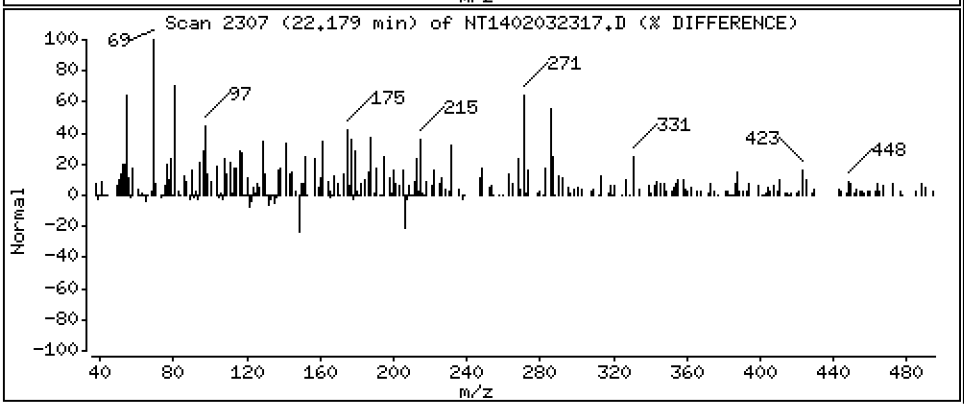












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

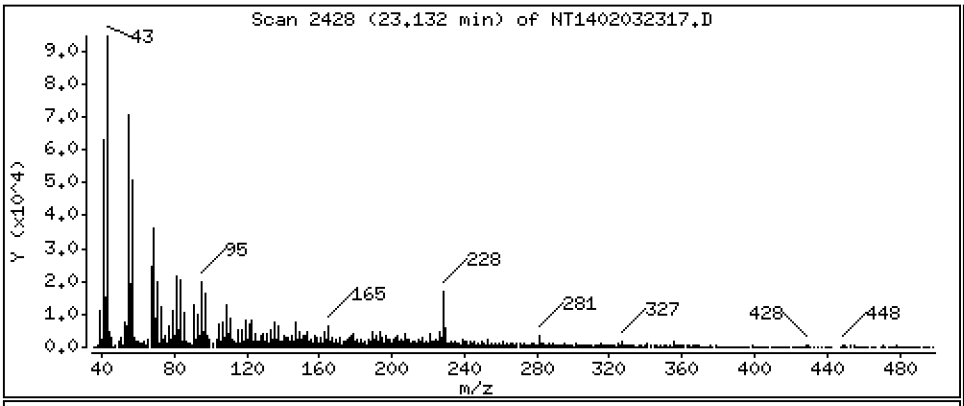
Operator: DSD

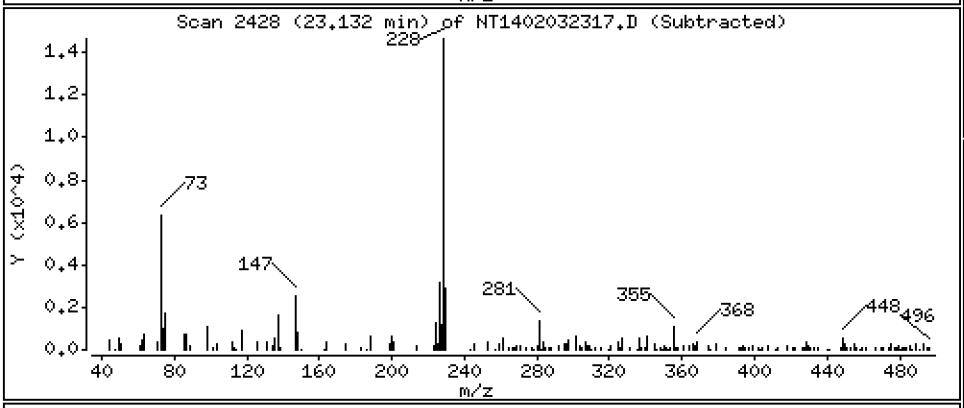
Column phase: ZB-5msi

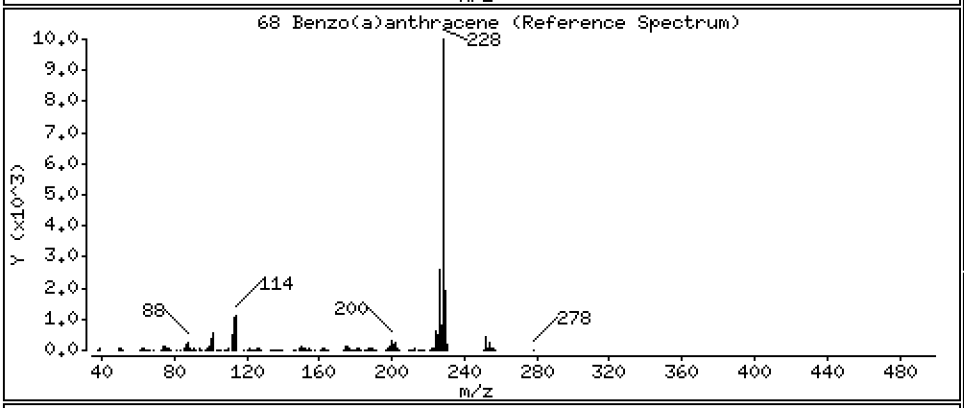
Column diameter: 0.25

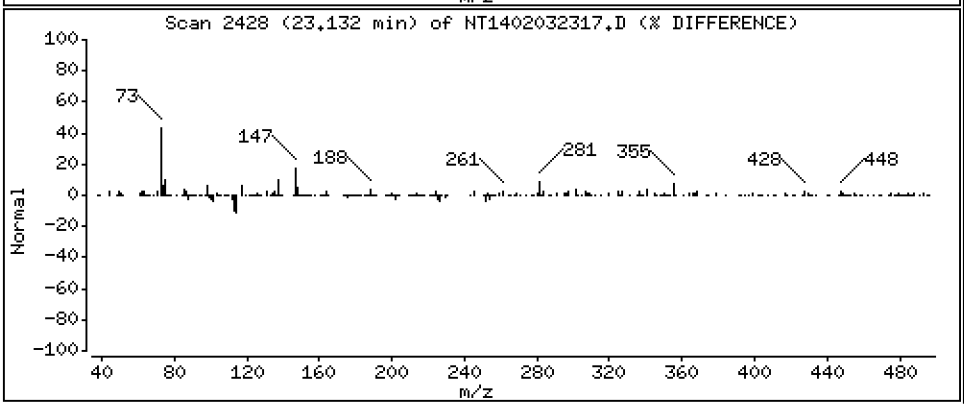
68 Benzo(a)anthracene

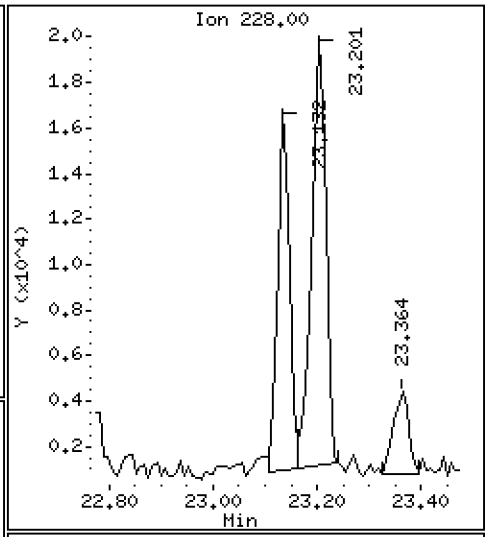
Concentration: 0.6247 ug/mL

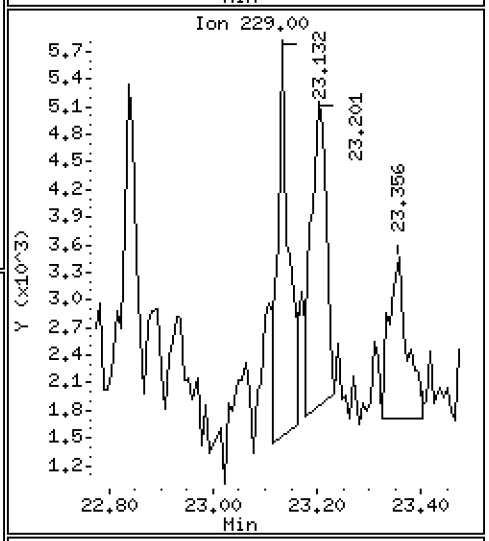


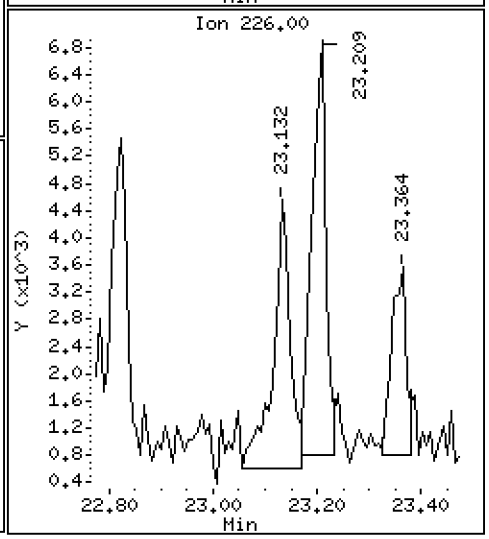












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

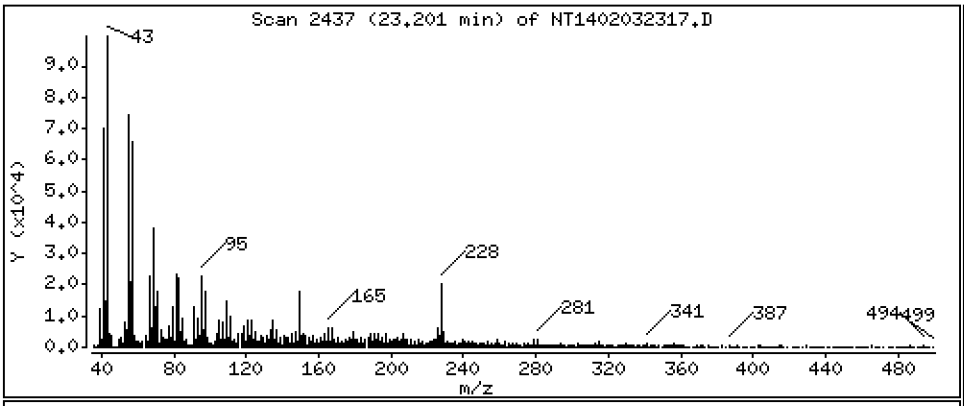
Operator: DSD

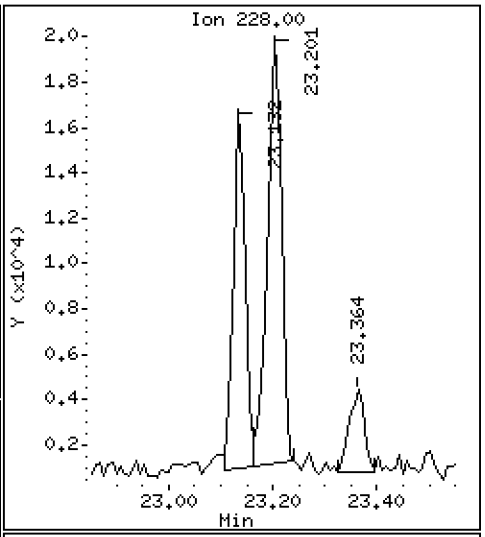
Column phase: ZB-5msi

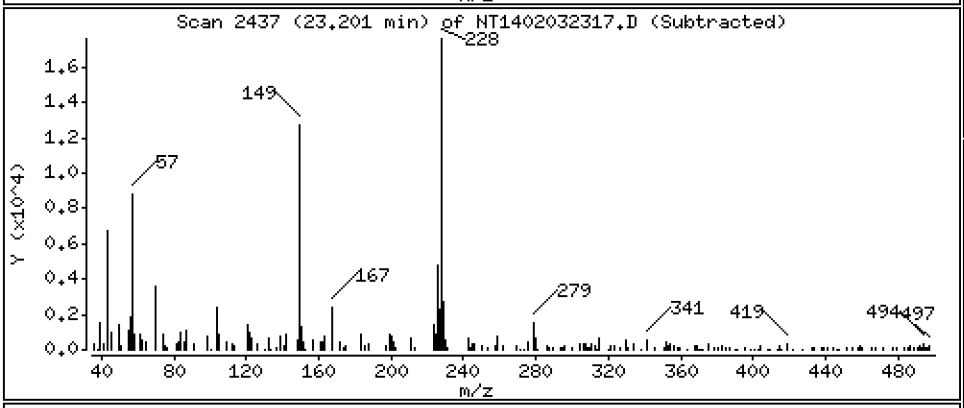
Column diameter: 0.25

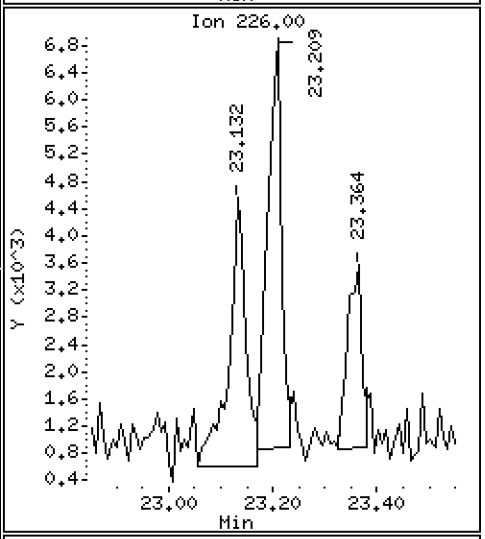
71 Chrysene

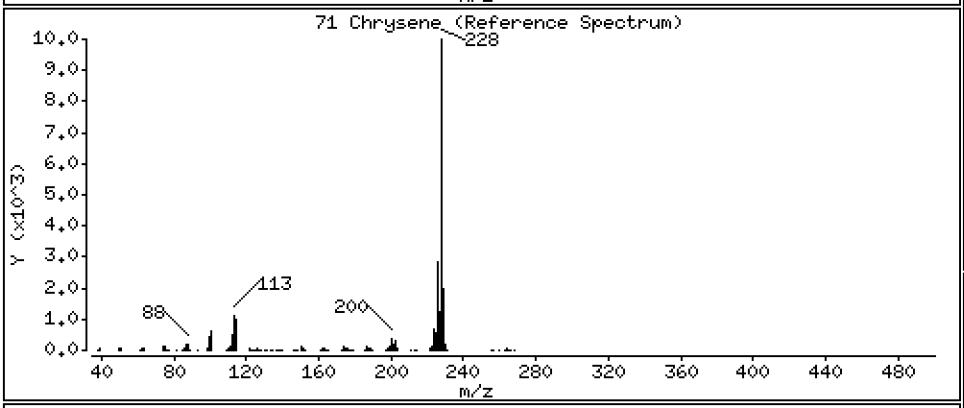
Concentration: 0.8999 ug/mL

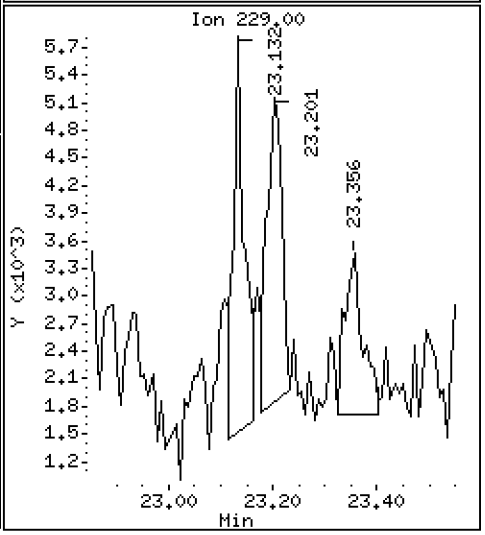


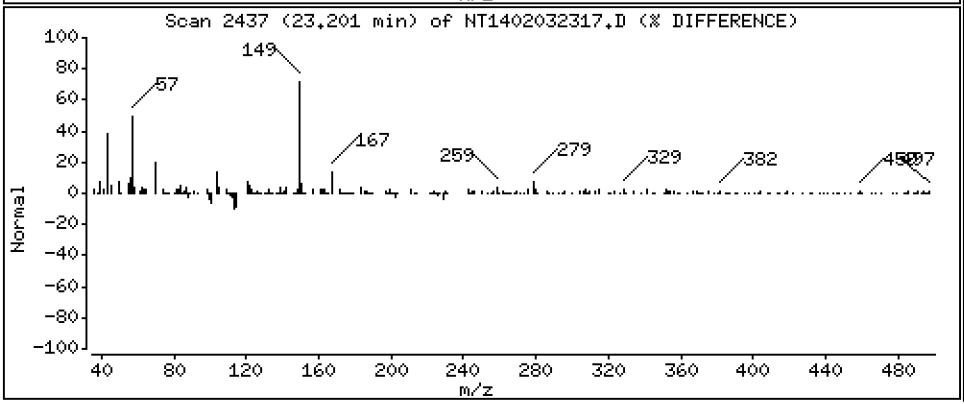












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

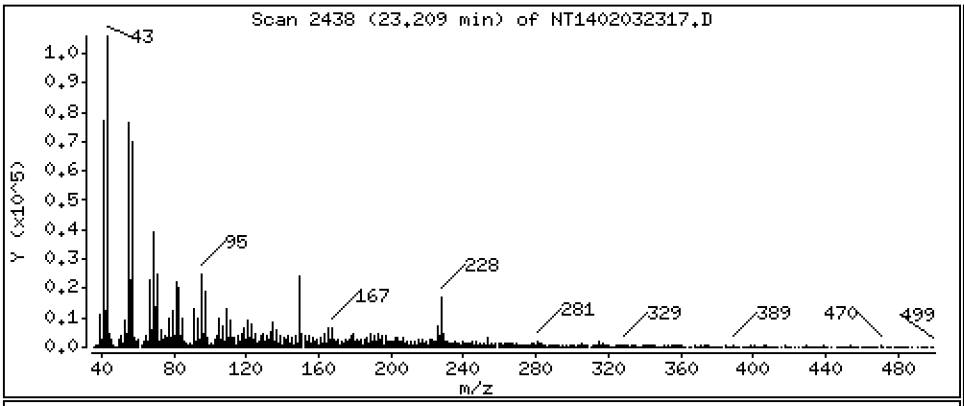
Operator: DSD

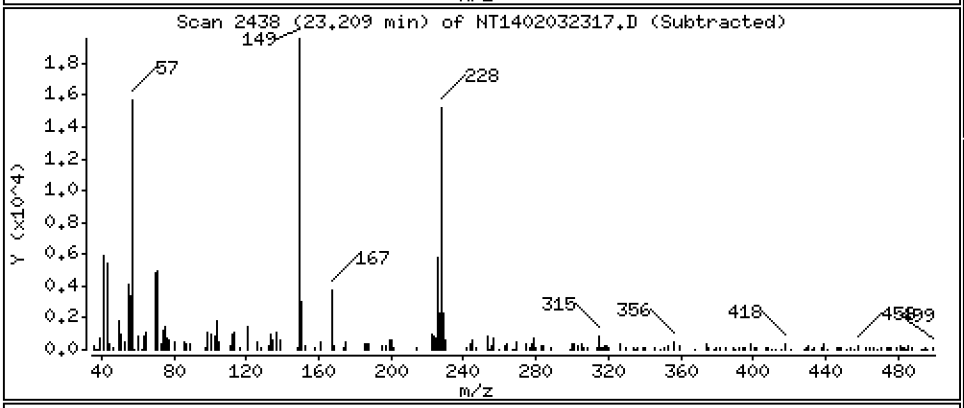
Column phase: ZB-5msi

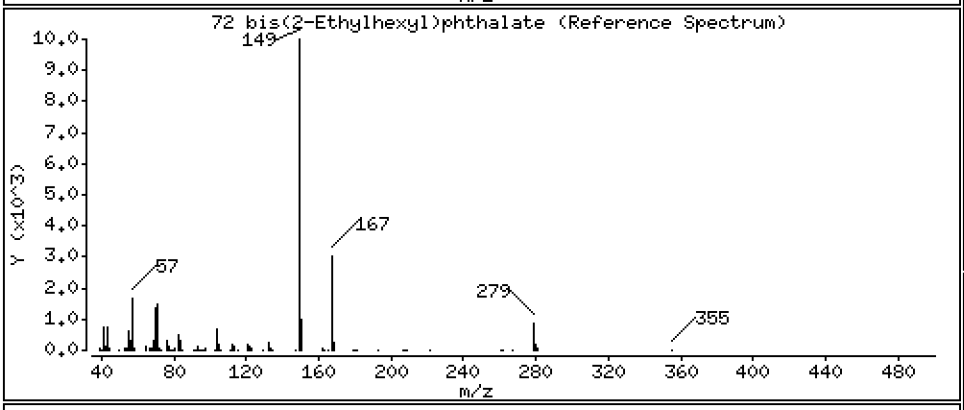
Column diameter: 0.25

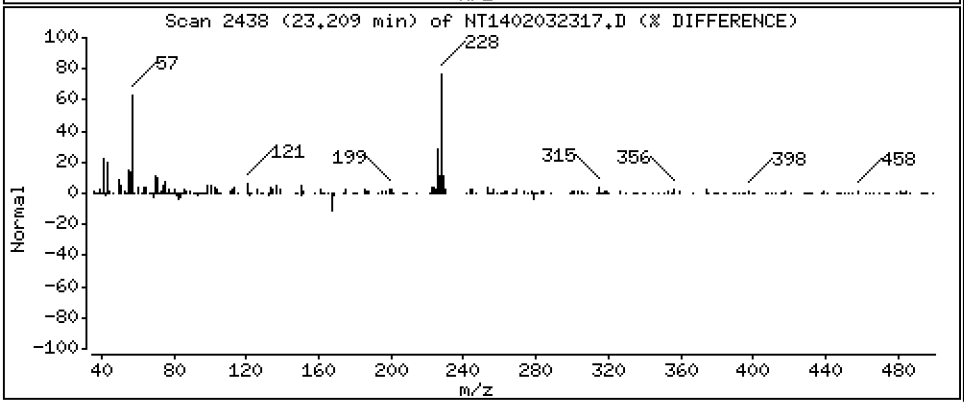
72 bis(2-Ethylhexyl)phthalate

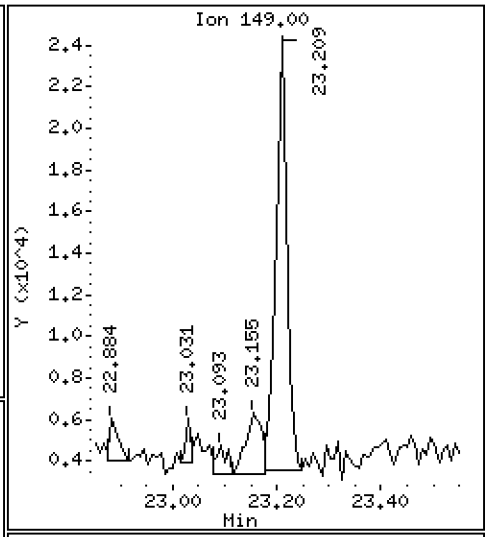
Concentration: 0.9627 ug/mL

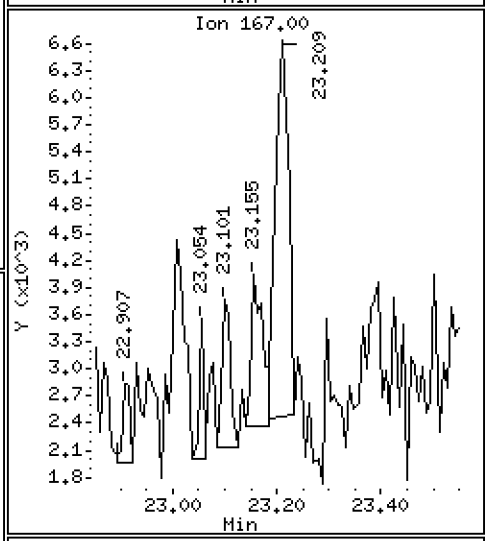


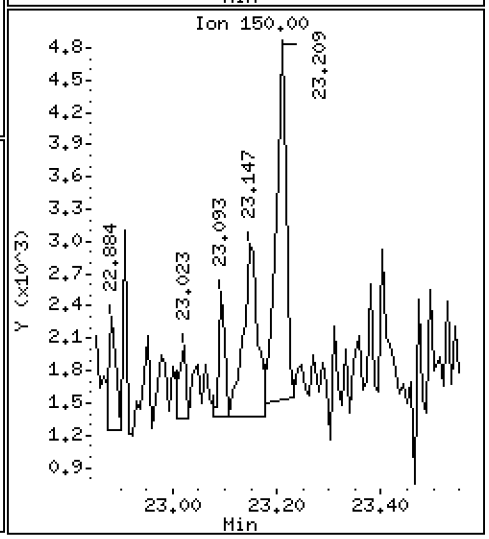












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

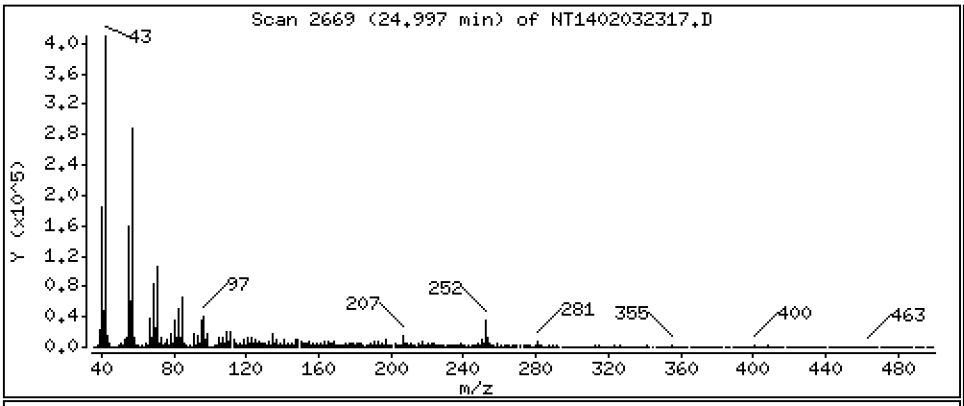
Operator: DSD

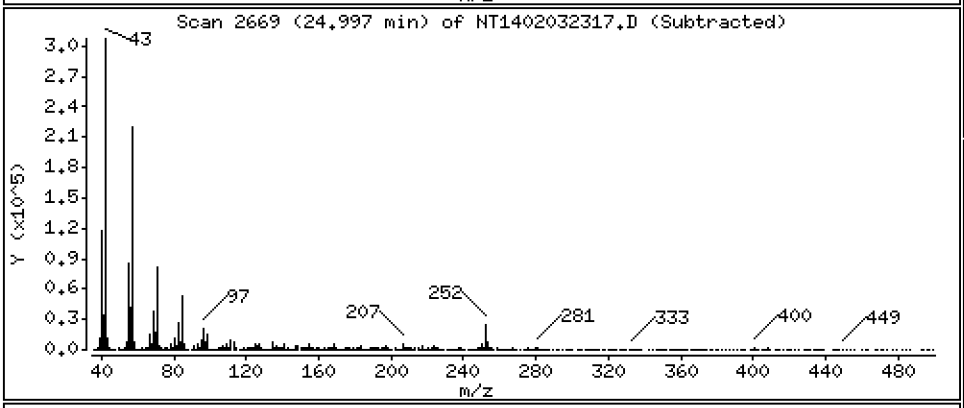
Column phase: ZB-5msi

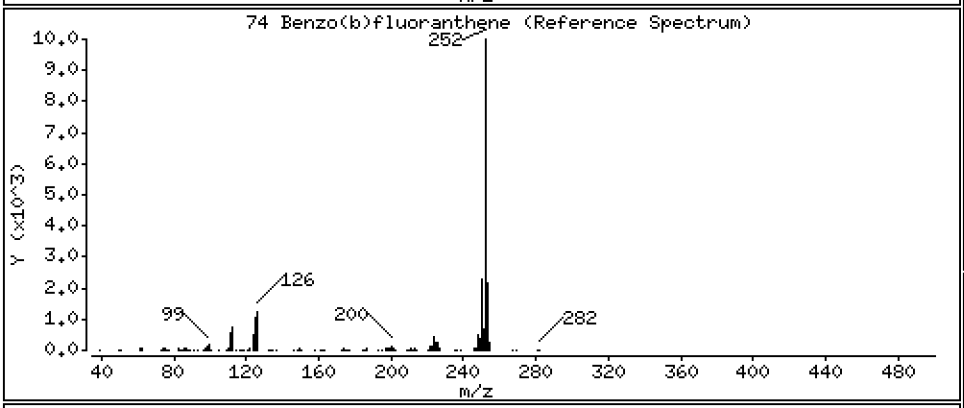
Column diameter: 0.25

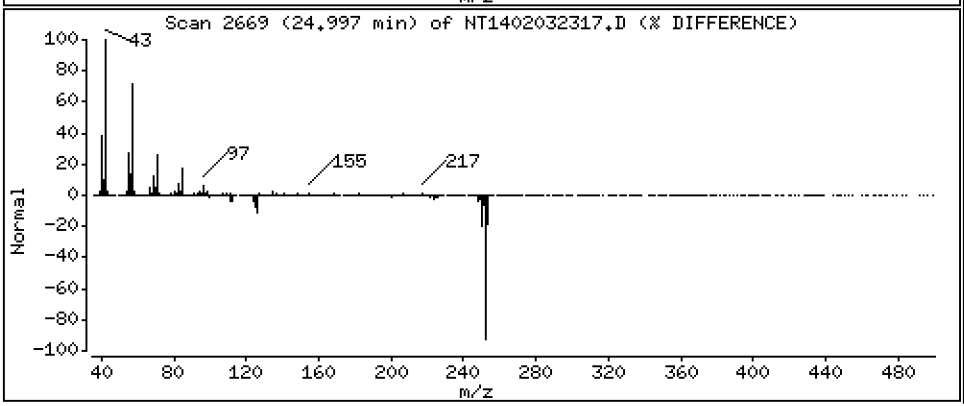
74 Benzo(b)fluoranthene

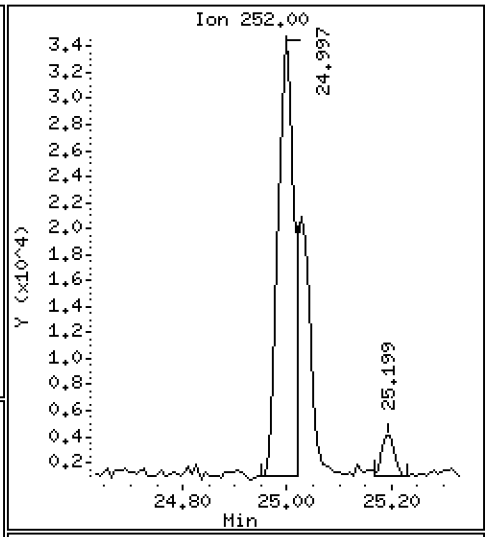
Concentration: 1.597 ug/mL

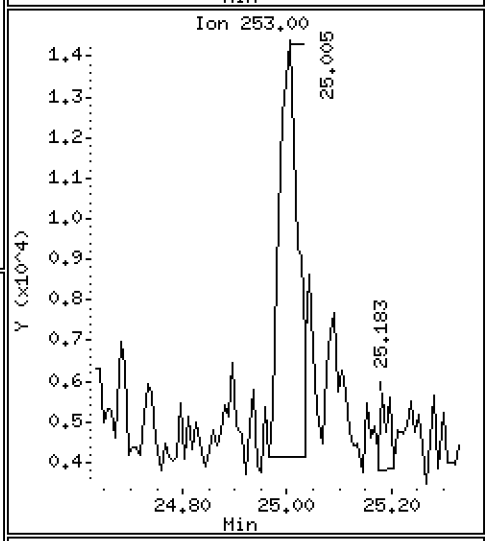


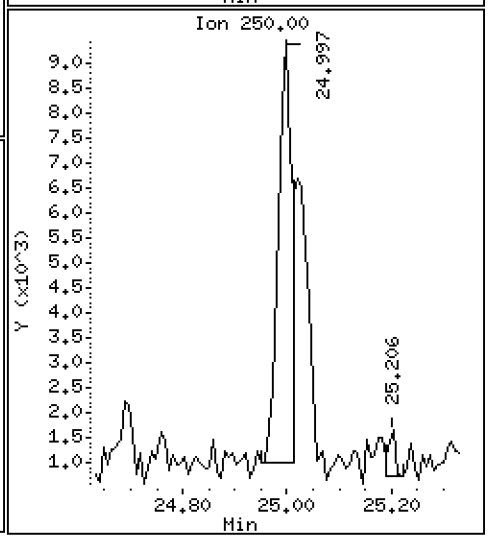












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032317.D

Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

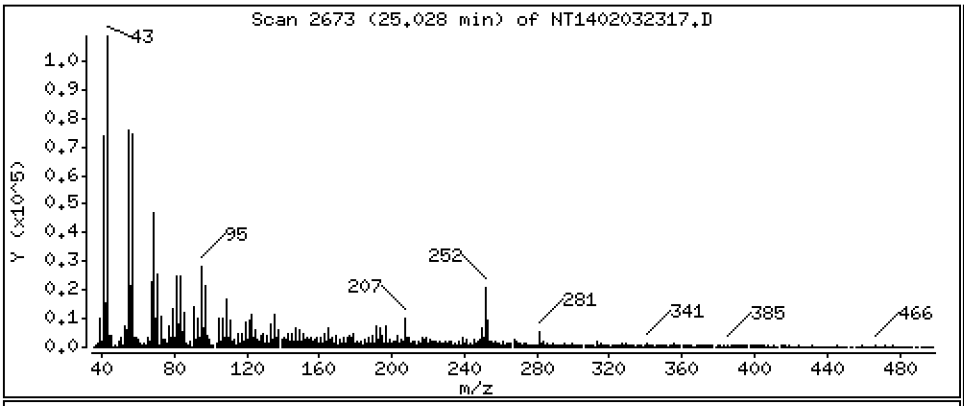
Operator: DSD

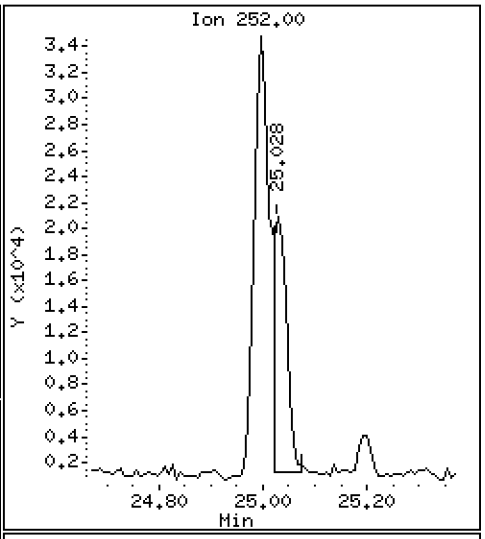
Column phase: ZB-5msi

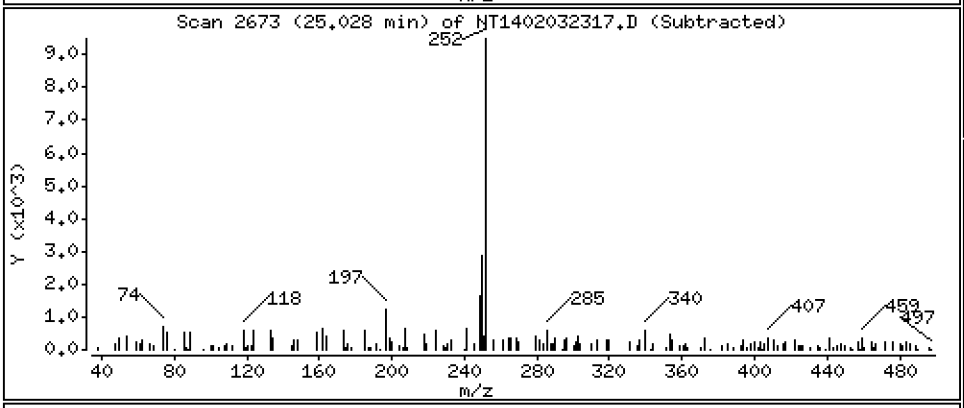
Column diameter: 0.25

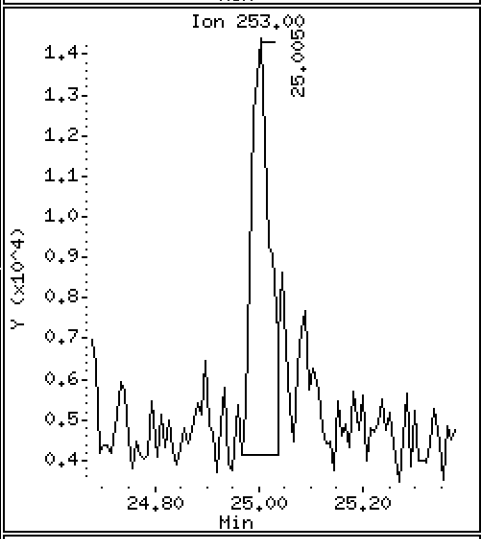
75 Benzo(k)fluoranthene

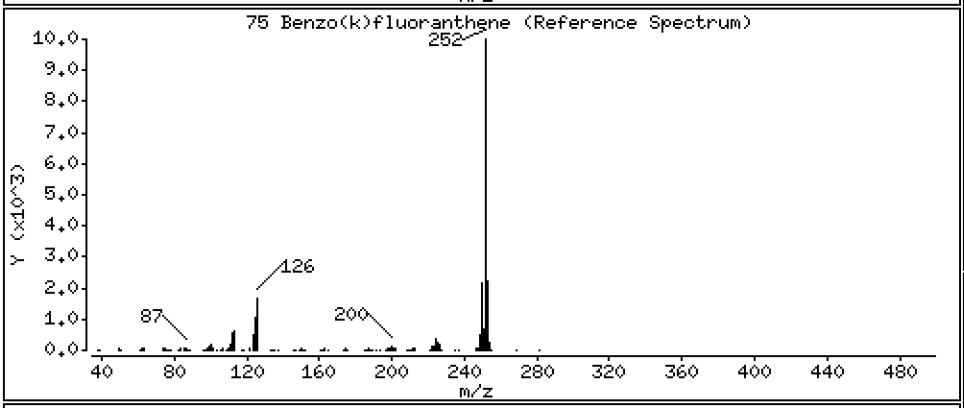
Concentration: 0.7852 ug/mL

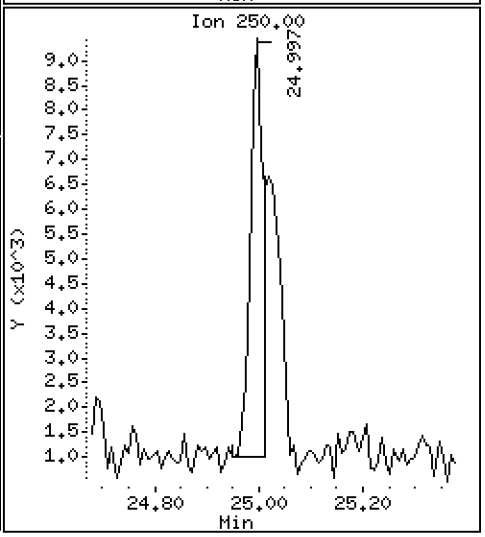


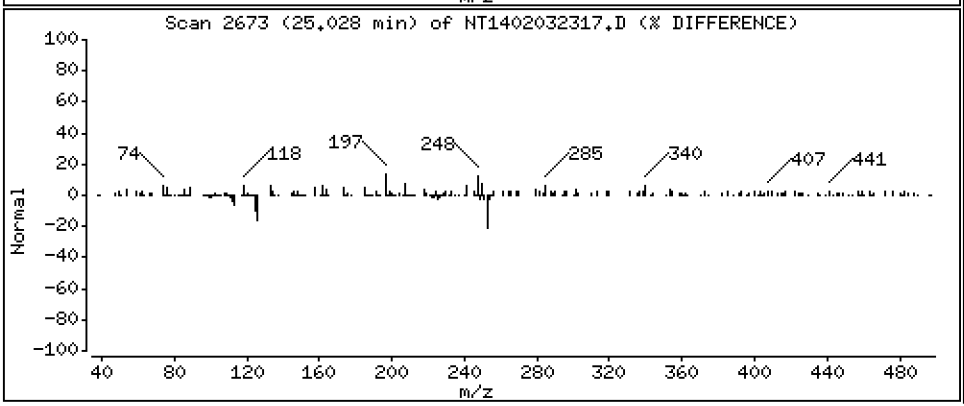












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

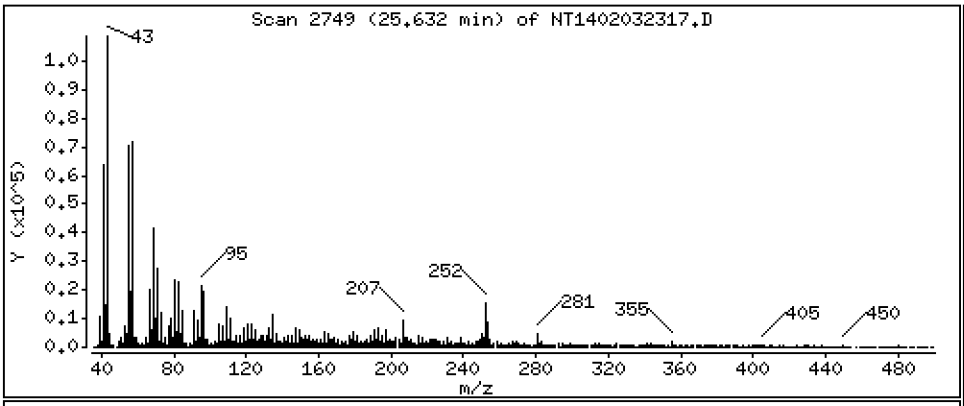
Operator: DSD

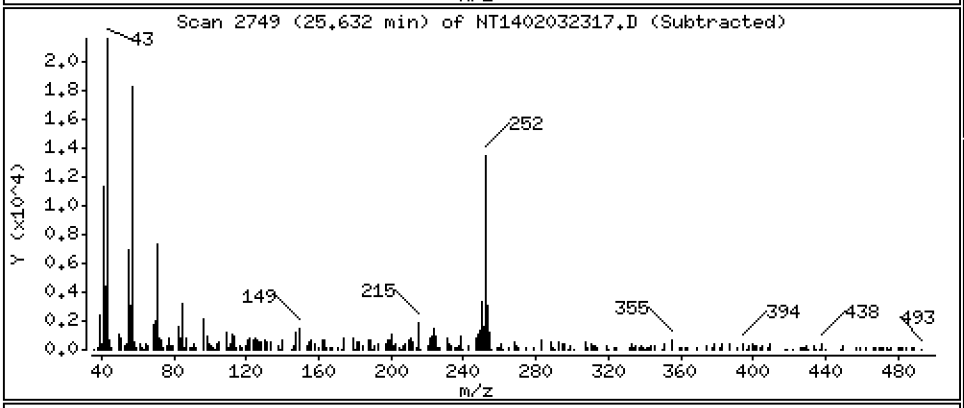
Column phase: ZB-5msi

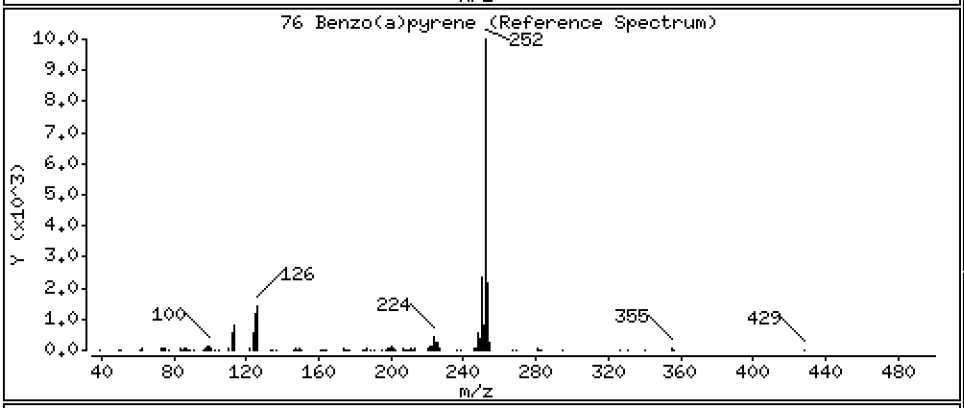
Column diameter: 0.25

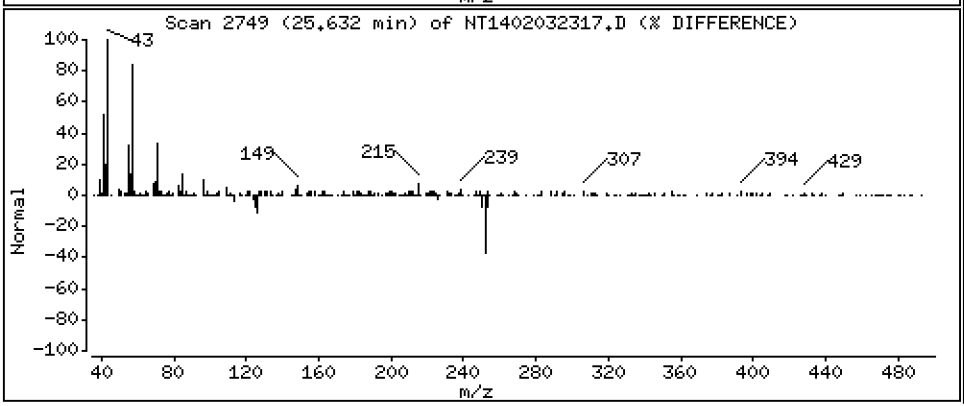
76 Benzo(a)pyrene

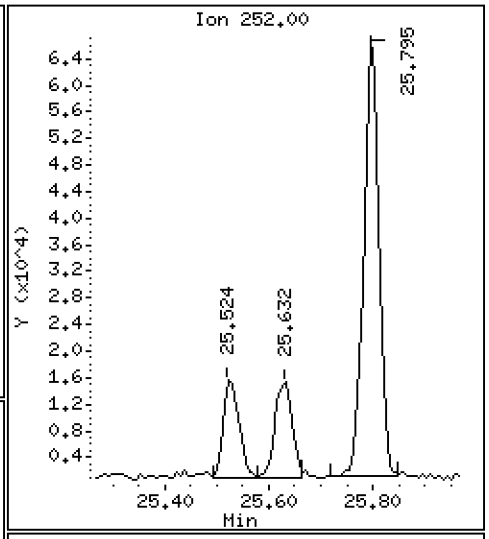
Concentration: 0.8332 ug/mL

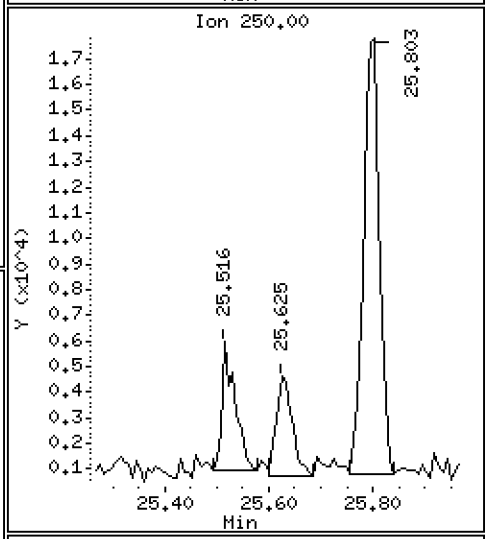


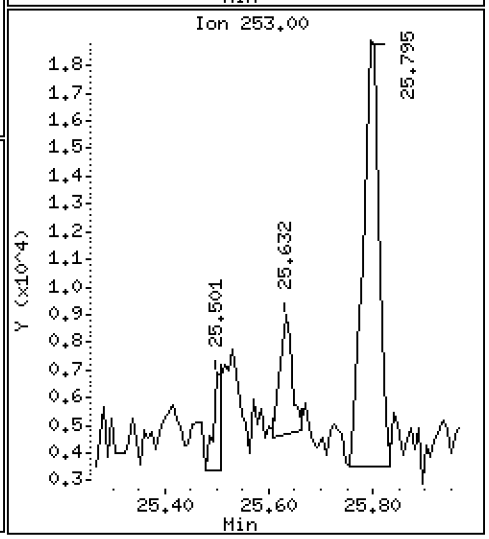












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

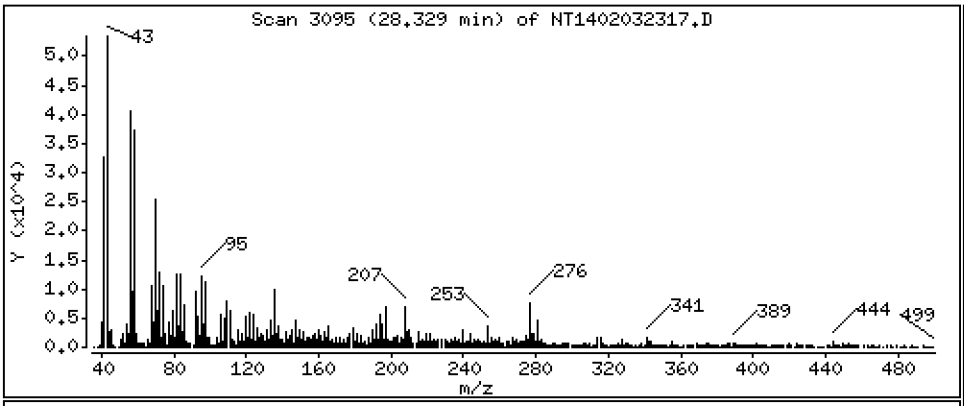
Operator: DSD

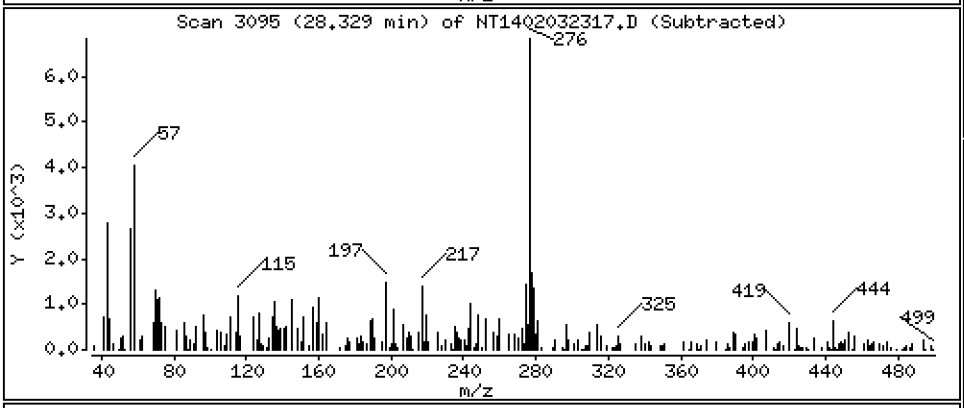
Column phase: ZB-5msi

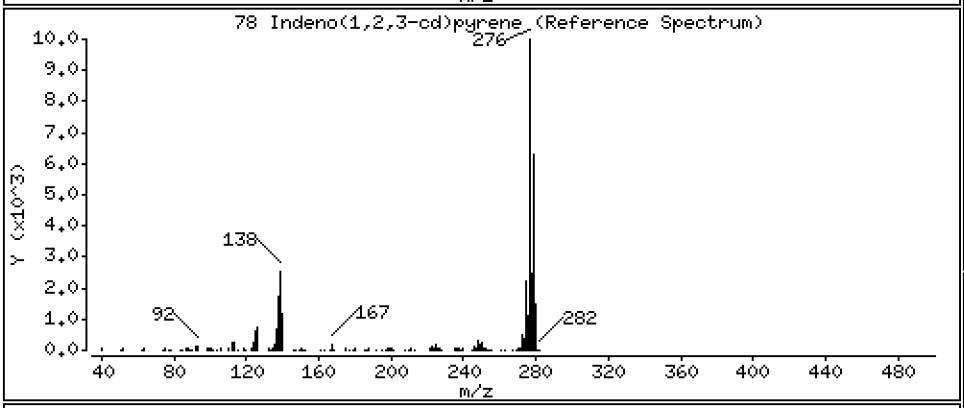
Column diameter: 0.25

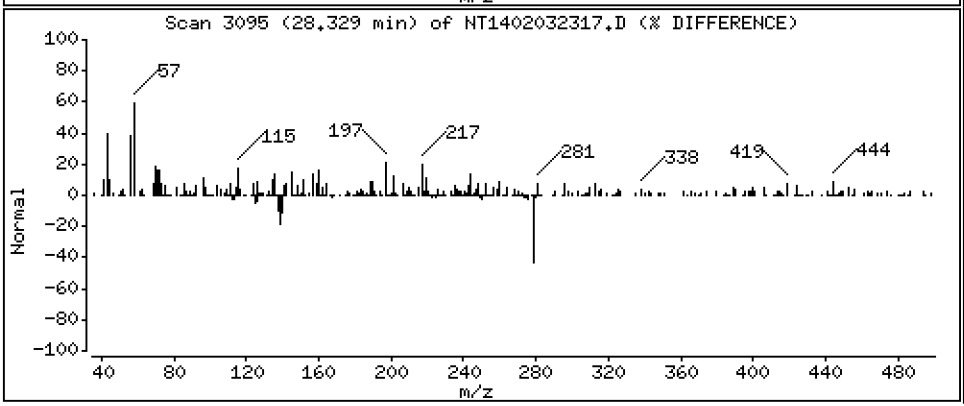
78 Indeno(1,2,3-cd)pyrene

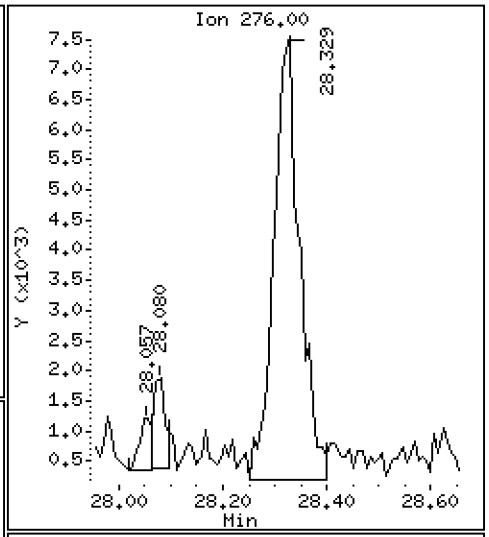
Concentration: 0.5224 ug/mL

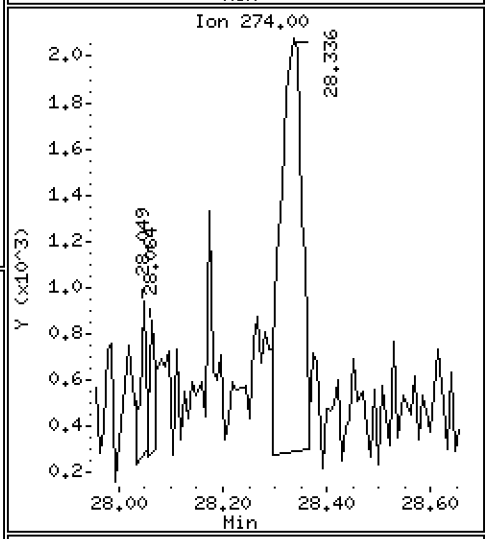


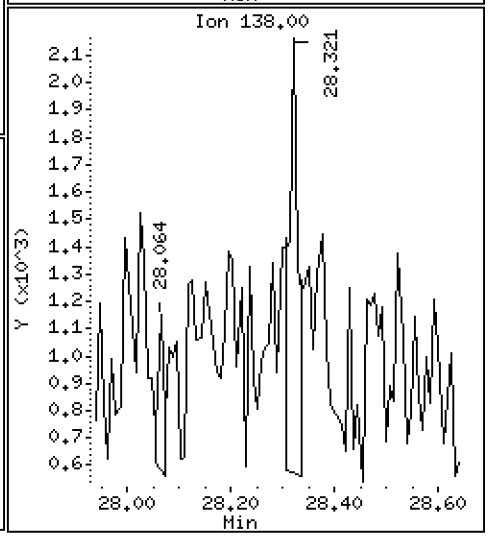












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

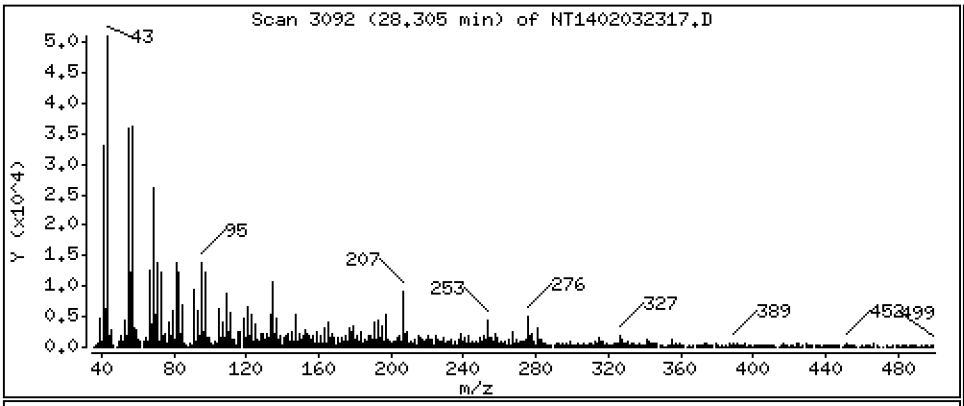
Operator: DSD

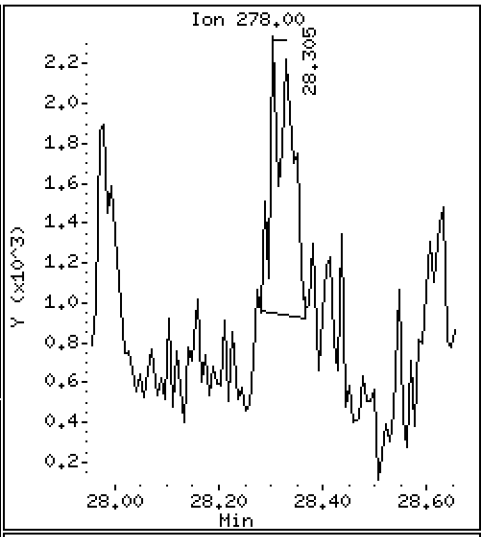
Column phase: ZB-5msi

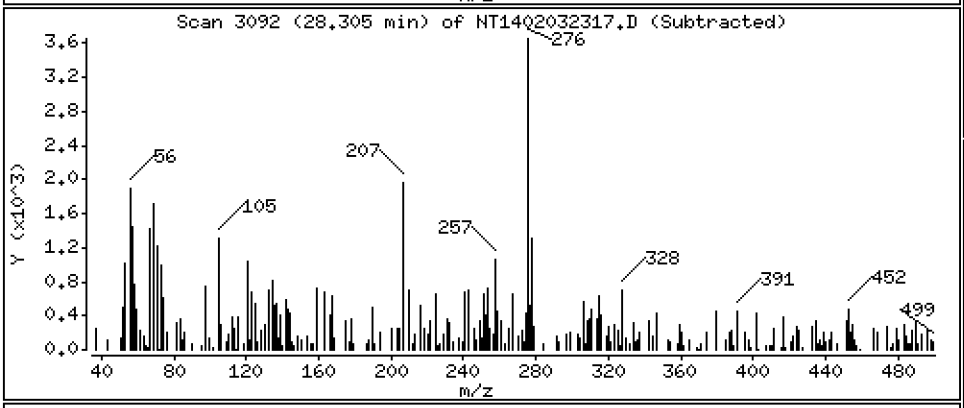
Column diameter: 0.25

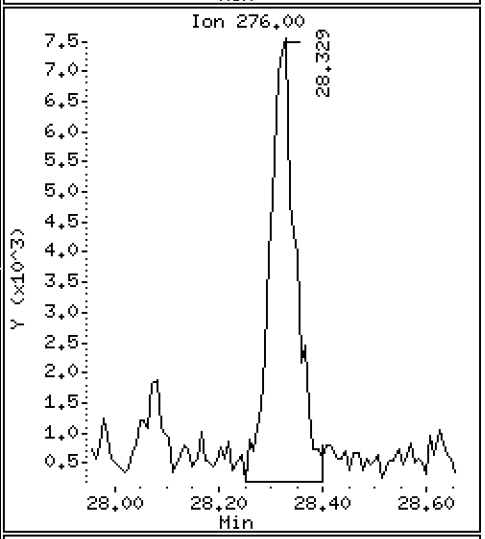
79 Dibenzo(a,h)anthracene

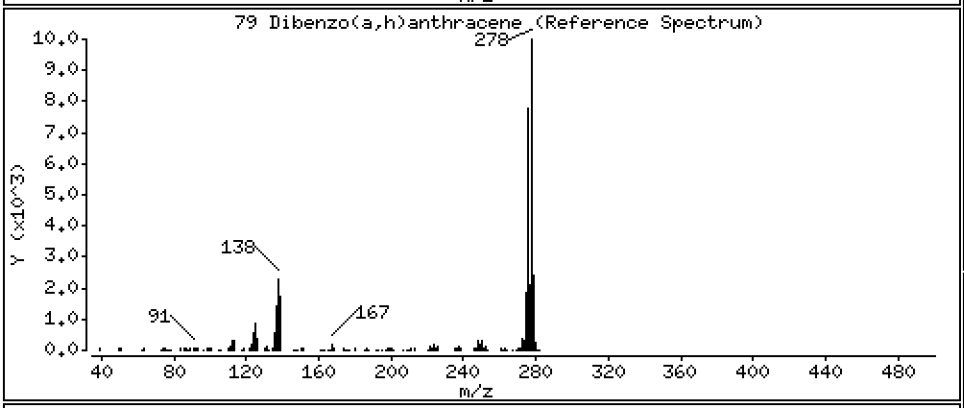
Concentration: 0.08542 ug/mL

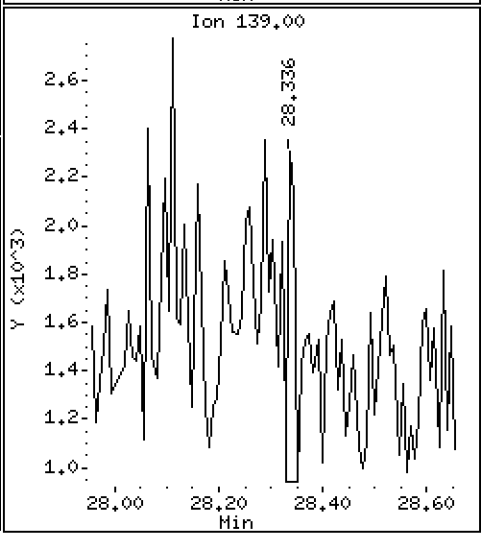


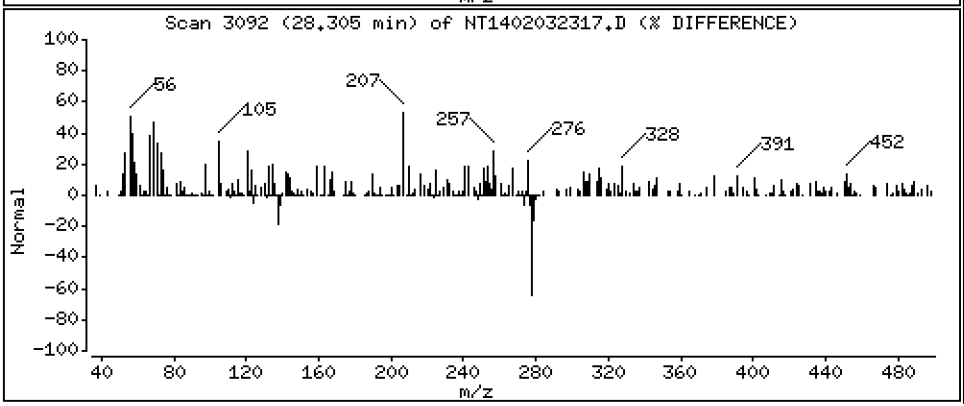












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

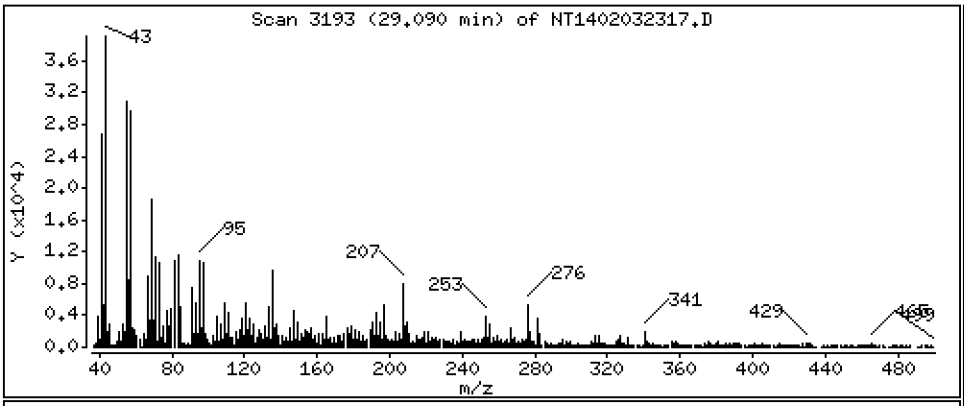
Operator: DSD

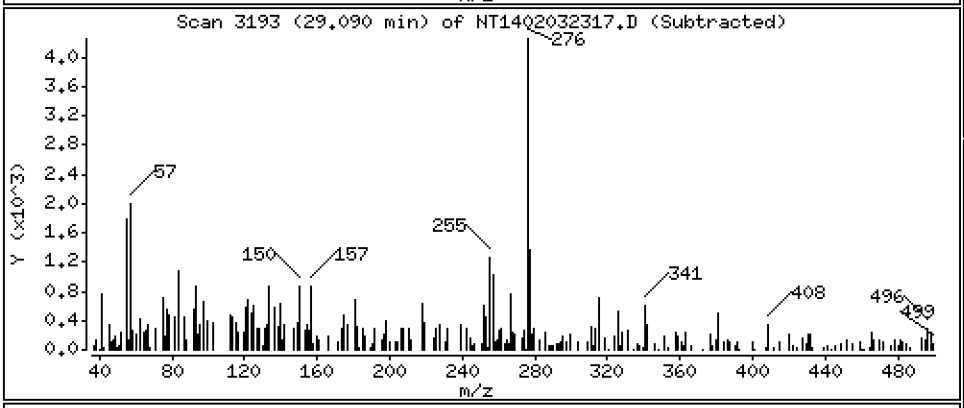
Column phase: ZB-5msi

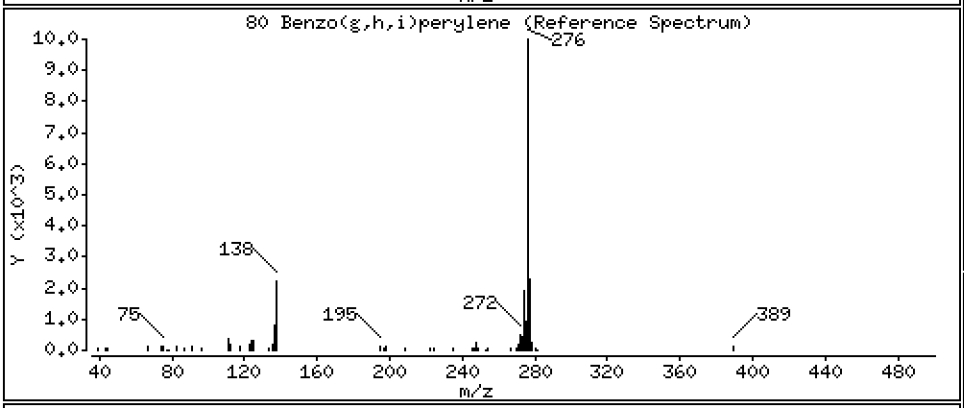
Column diameter: 0.25

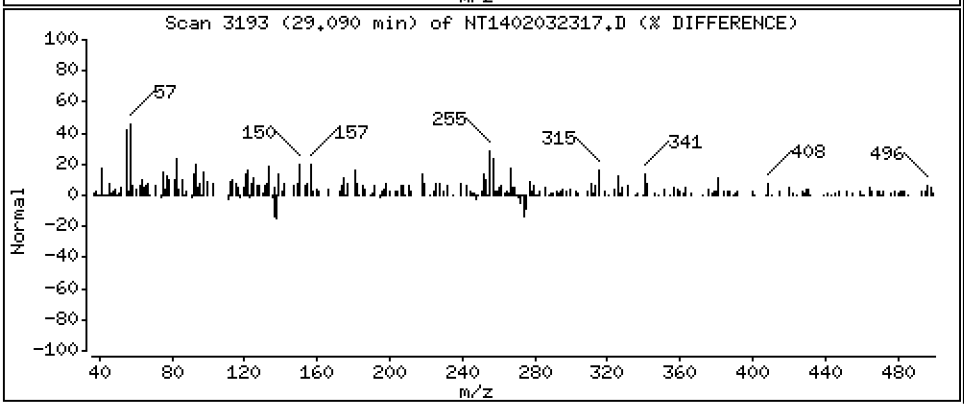
80 Benzo(g,h,i)perylene

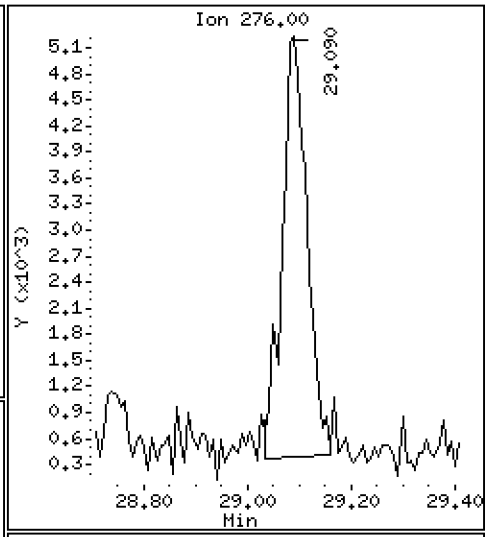
Concentration: 0.4605 ug/mL

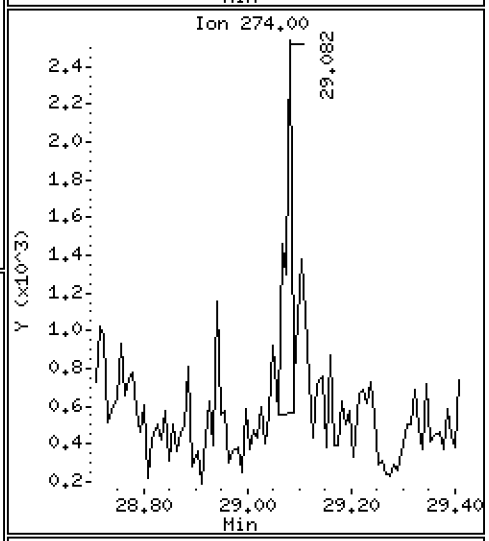


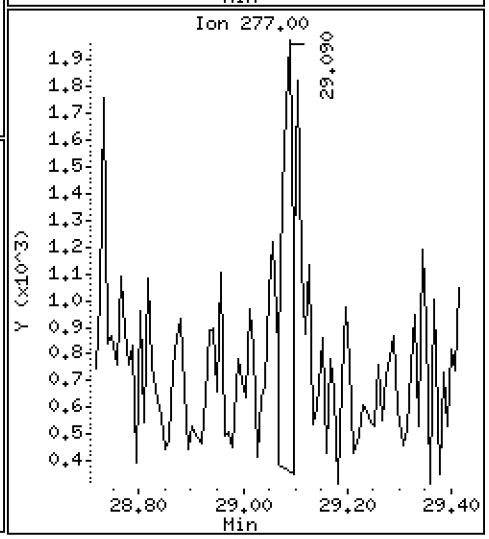












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Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

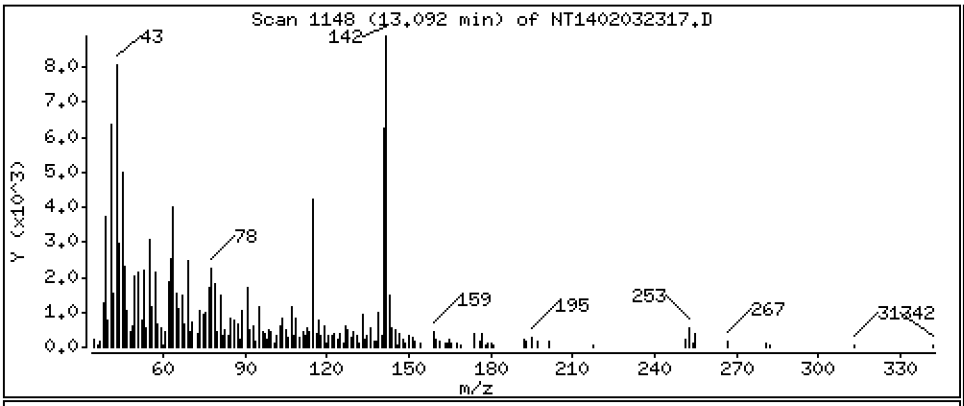
Operator: DSD

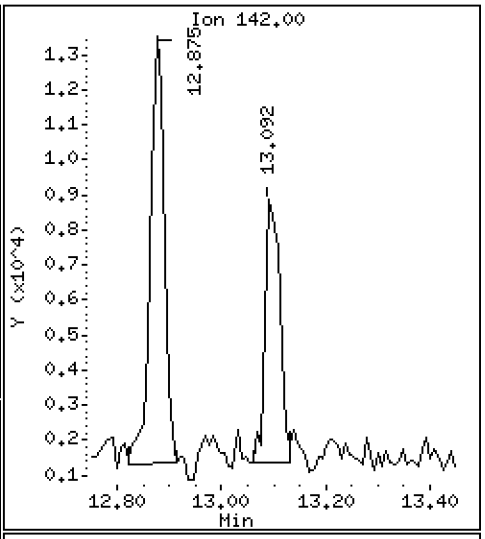
Column phase: ZB-5msi

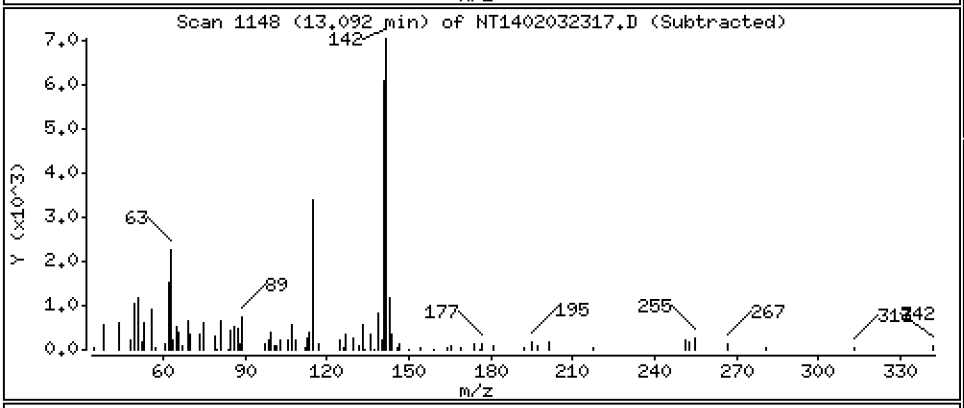
Column diameter: 0.25

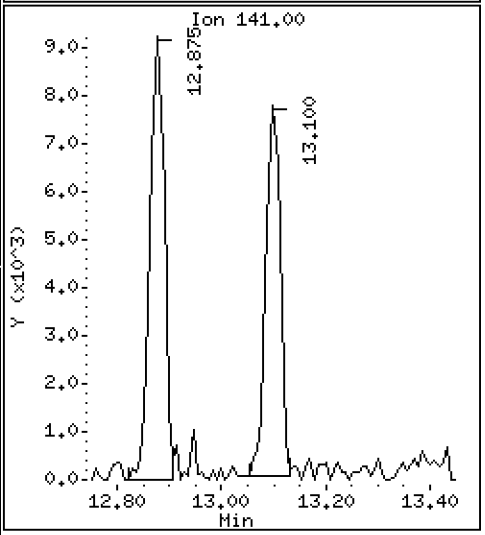
105 1-methylnaphthalene

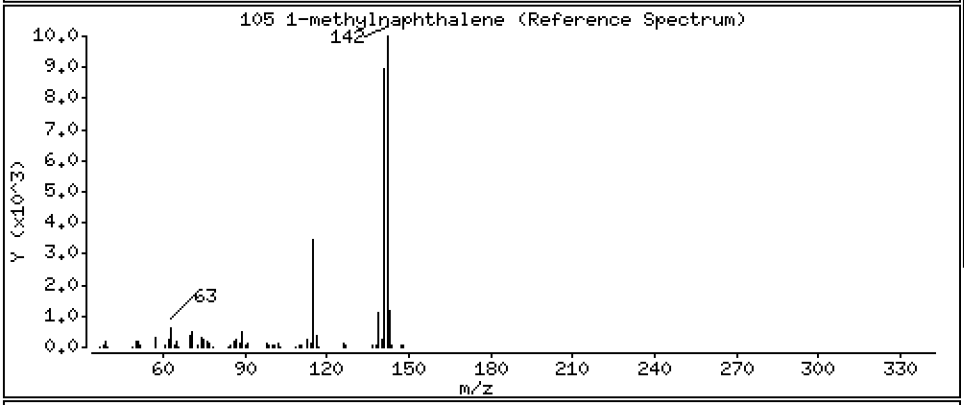
Concentration: 0.3011 ug/mL

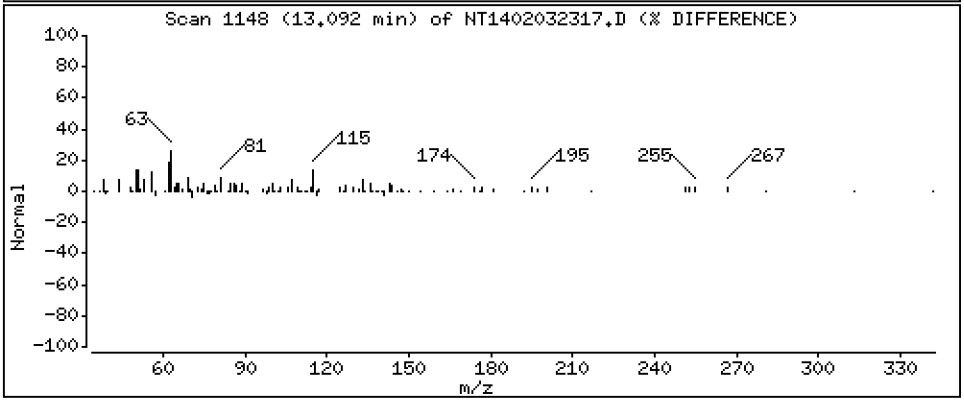












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032317.D

Date : 03-FEB-2023 22:45

Client ID:

Instrument: nt14.i

Sample Info: 22L0459-07

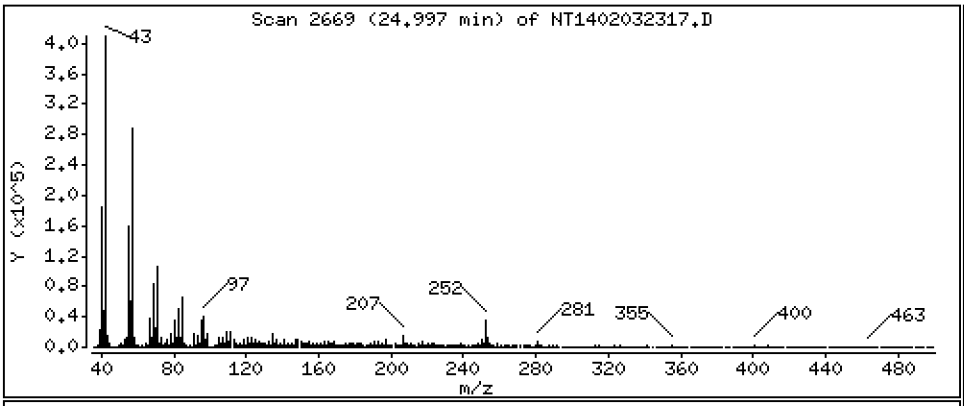
Operator: DSD

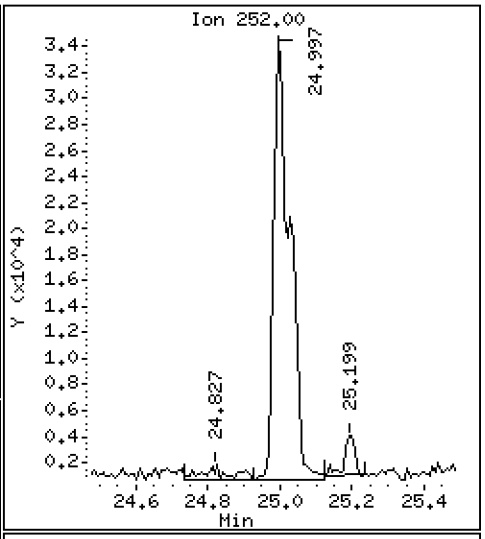
Column phase: ZB-5msi

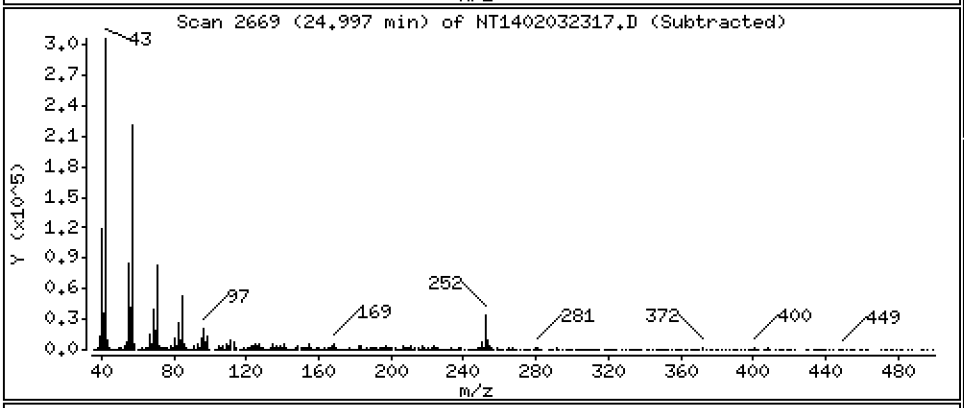
Column diameter: 0.25

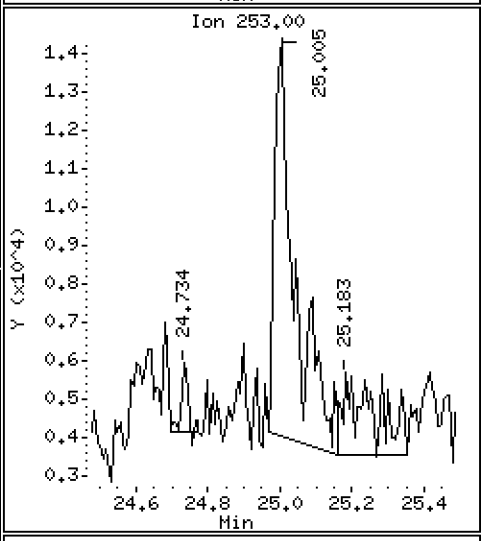
187 Total Benzofluoranthenes

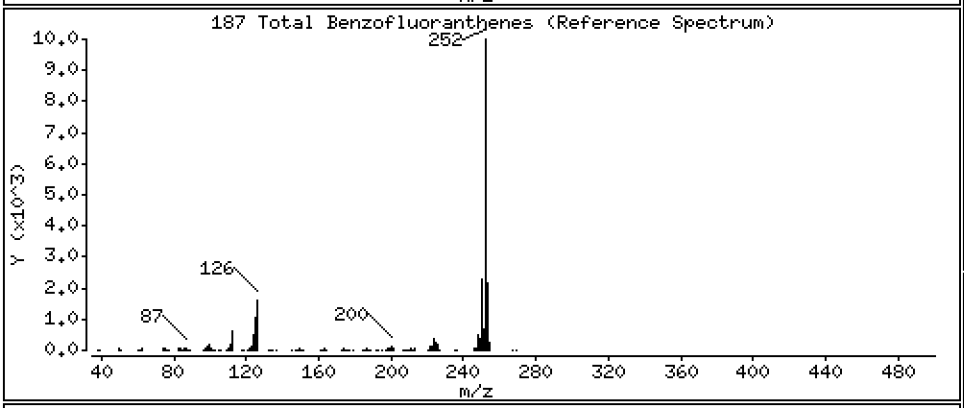
Concentration: 2.396 ug/mL

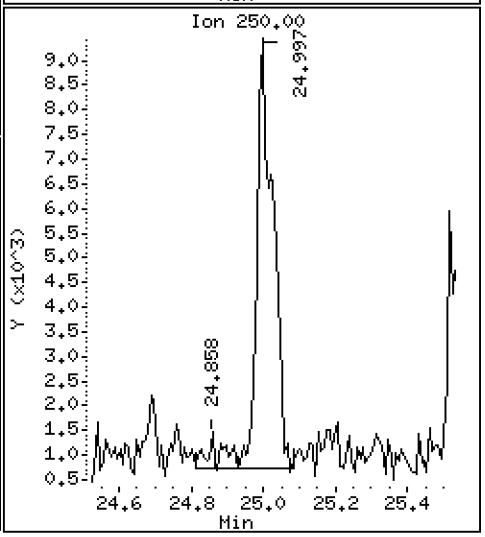


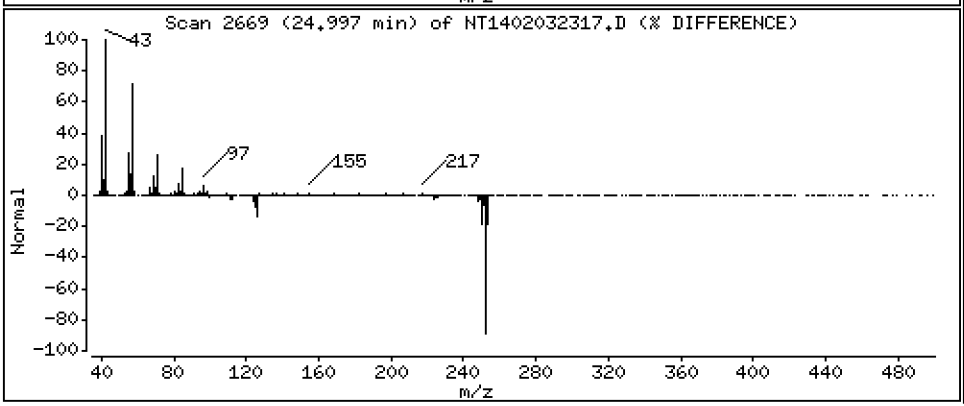












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230203.b\NT1402032317.D
Lab Smp Id: 22L0459-07
Inj Date : 03-FEB-2023 22:45 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : 22L0459-07
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.720	6.720	(0.752)	60324	3.88000	3.880
$	2 Phenol-d5	99	8.320	8.312	(0.931)	95665	4.68308	4.683
	3 Phenol	94	8.343	8.336	(0.933)	21185	0.84550	0.8455
$	5 2-Chlorophenol-d4	132	8.583	8.583	(0.960)	102925	5.20925	5.209
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.939	8.946	(1.000)	57886	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.041)	46571	3.32110	3.321
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.226	9.218	(1.032)	5301	0.42912	0.4291
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.459	9.451	(1.058)	952	0.04948	0.04948
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.723	9.722	(1.088)	13564	0.62464	0.6246
$	18 Nitrobenzene-d5	82	10.033	10.041	(0.877)	120736	3.52972	3.530
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	10.972	10.972	(0.959)	7531	0.37663	0.3766(M)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	11.344	11.351	(0.992)	1131	0.04798	0.04798
*	27 Naphthalene-d8	136	11.436	11.436	(1.000)	239069	4.00000	
	28 Naphthalene	128	11.475	11.482	(1.003)	26880	0.44687	0.4469
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.875	12.882	(1.126)	21563	0.43972	0.4397
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.664	13.664	(0.907)	205618	3.70343	3.703
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.057	15.057	(1.000)	156006	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.119	15.127	(1.004)	8952	0.18303	0.1830
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.451	15.451	(1.026)	14091	0.19881	0.1988
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.016	16.031	(1.064)	13264	0.15271	0.1527
	49	Fluorene	166	16.163	16.163	(1.073)	13851	0.15884	0.1588
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.702	16.702	(1.109)	81148	6.26869	6.269
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.101	18.093	(1.000)	302566	4.00000	
	60	Phenanthrene	178	18.147	18.147	(1.003)	74815	0.91643	0.9164
	61	Anthracene	178	18.240	18.232	(1.008)	24619	0.31560	0.3156
	62	Carbazole	167	18.573	18.565	(1.026)	8376	0.11693	0.1169
	63	Di-n-butylphthalate	149	19.385	19.377	(1.071)	12441	0.11202	0.1120
	64	Fluoranthene	202	20.577	20.538	(0.888)	96911	2.27774	2.278
	65	Pyrene	202	20.987	20.963	(0.906)	118454	2.78674	2.787
$	66	Terphenyl-d14	244	21.258	21.250	(0.918)	177374	4.85561	4.856
	67	Butylbenzylphthalate	149	22.179	22.179	(0.958)	2431	0.10714	0.1071(M)
	68	Benzo(a)anthracene	228	23.131	23.123	(0.999)	25219	0.62474	0.6247
*	69	Chrysene-d12	240	23.162	23.154	(1.000)	110676	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.201	23.201	(1.002)	34275	0.89991	0.8999
	72	bis(2-Ethylhexyl)phthalate	149	23.209	23.201	(0.960)	30284	0.96275	0.9627
*	134	Di-n-octylphthalate-d4	153	24.184	24.184	(1.000)	193367	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	24.997	24.981	(0.971)	72043	1.59715	1.597
	75	Benzo(k)fluoranthene	252	25.028	25.020	(0.972)	36263	0.78524	0.7852(M)
	76	Benzo(a)pyrene	252	25.632	25.616	(0.995)	32114	0.83324	0.8332
*	77	Perylene-d12	264	25.748	25.725	(1.000)	128365	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.328	28.305	(1.100)	25438	0.52243	0.5224
	79	Dibenzo(a,h)anthracene	278	28.305	28.305	(1.099)	3582	0.08542	0.08542(M)
	80	Benzo(g,h,i)perylene	276	29.089	29.058	(1.130)	16604	0.46047	0.4605
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.091	13.099	(1.145)	14339	0.30111	0.3011
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.997	24.981	(0.971)	105209	2.39585	2.396
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032317.D
Lab Smp Id: 22L0459-07
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	57886	-10.87
27 Naphthalene-d8	262858	131429	525716	239069	-9.05
42 Acenaphthene-d10	167543	83772	335086	156006	-6.89
59 Phenanthrene-d10	341039	170520	682078	302566	-11.28
69 Chrysene-d12	222731	111366	445462	110676	-50.31 <-
134 Di-n-octylphthala	333425	166713	666850	193367	-42.01
77 Perylene-d12	152721	76361	305442	128365	-15.95

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.09
27 Naphthalene-d8	11.44	10.94	11.94	11.44	0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.10	0.04
69 Chrysene-d12	23.15	22.65	23.65	23.16	0.03
134 Di-n-octylphthala	24.18	23.68	24.68	24.18	0.00
77 Perylene-d12	25.73	25.23	26.23	25.75	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032317.D

Lab ID: 22L0459-07
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 22:45

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

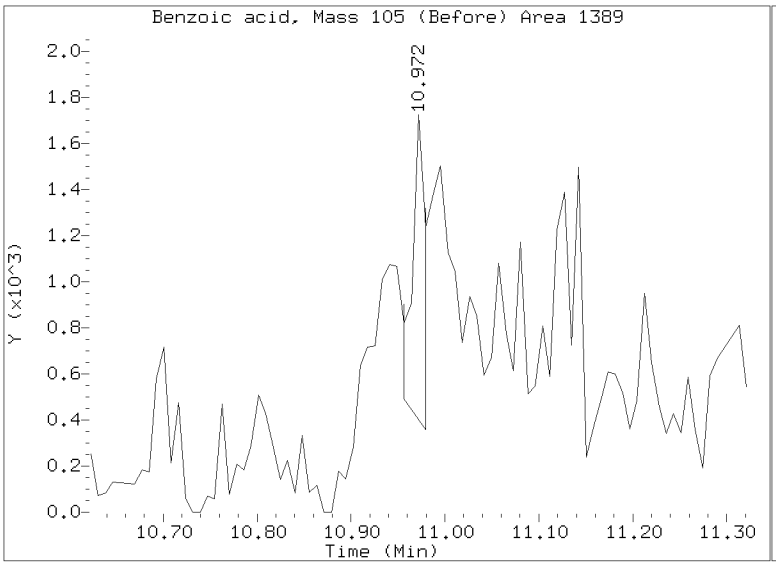
RRT check based on Ccal File: NT1402032303.D

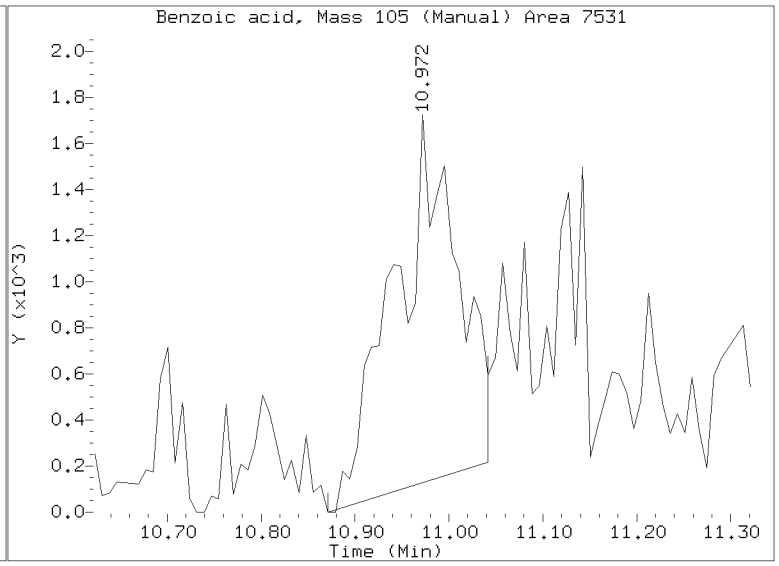
On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

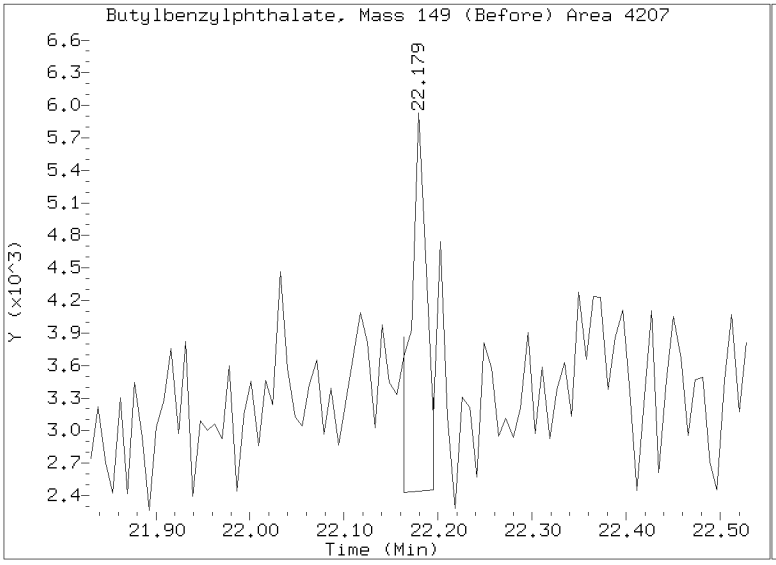
* Only compounds listed in the work order have been verified by the analyst *

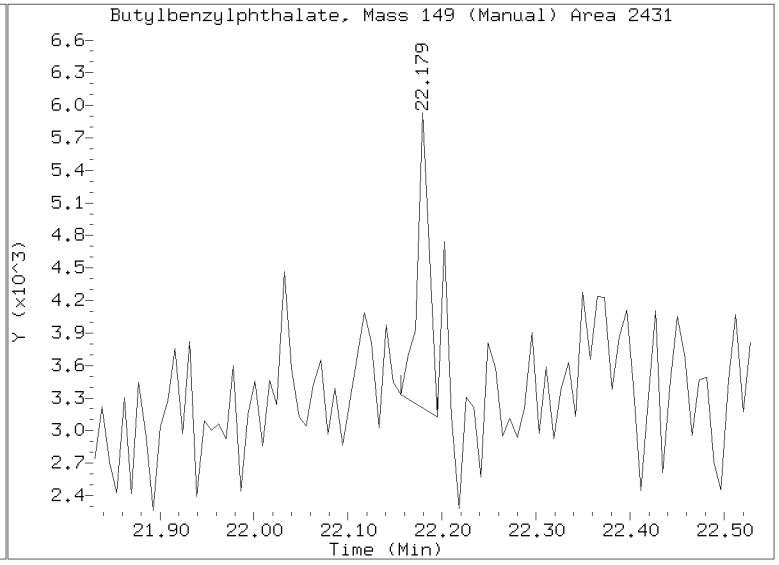
Quant Ion Manual Peak Adjustment Report

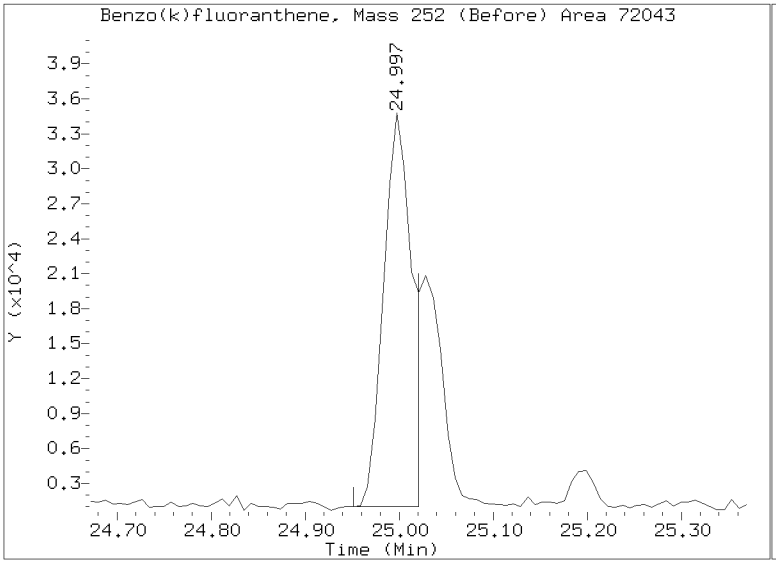
Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032317.D
Injection Date: 03-FEB-2023 22:45
Lab ID:22L0459-07 Client ID:
Report Date: 02/04/2023 10:29

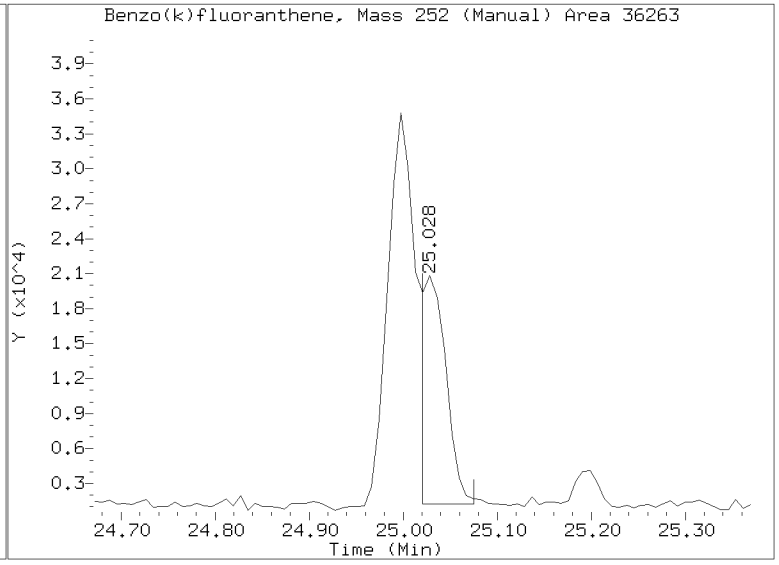






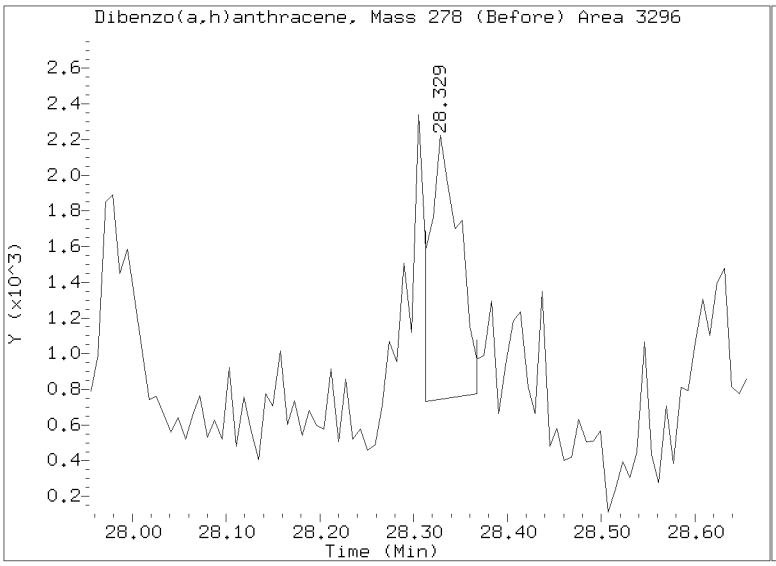


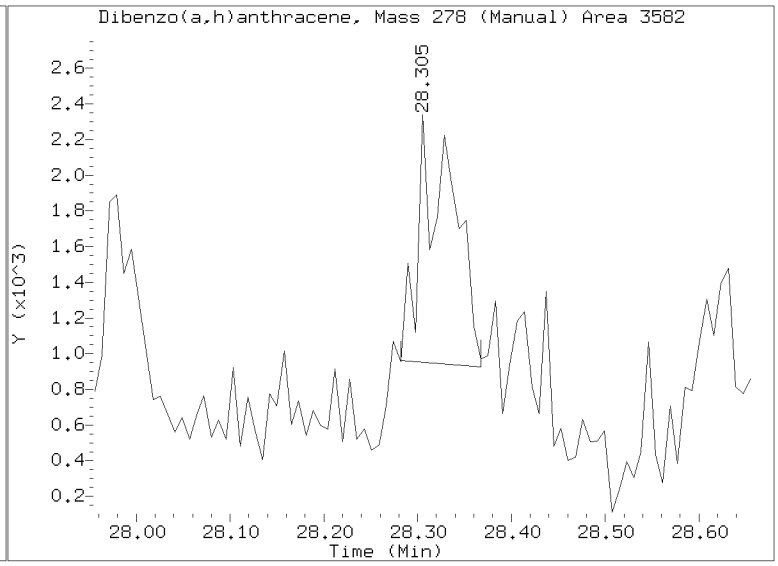




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032317.D
Injection Date: 03-FEB-2023 22:45
Lab ID:22L0459-07 Client ID:
Report Date: 02/04/2023 10:29





PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Batch: BLA0064 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1123B	22L0459-01	NT1402032309.D	01/05/23 16:13	
LDW23-SC1053C	22L0459-02	NT1402032312.D	01/05/23 16:13	
LDW23-SC1039C	22L0459-03	NT1402032313.D	01/05/23 16:13	
LDW23-SC1007B	22L0459-04	NT1402032314.D	01/05/23 16:13	
LDW23-SC1002C	22L0459-05	NT1402032315.D	01/05/23 16:13	
LDW23-SC1070B	22L0459-06	NT1402032316.D	01/05/23 16:13	
LDW23-SC1091B	22L0459-07	NT1402032317.D	01/05/23 16:13	
Blank	BLA0064-BLK1	NT1402032306.D	01/05/23 16:13	
LCS	BLA0064-BS1	NT1402032307.D	01/05/23 16:13	
LCS Dup	BLA0064-BSD1	NT1402032308.D	01/05/23 16:13	
LDW23-SC1123B	BLA0064-MS1	NT1402032310.D	01/05/23 16:13	
LDW23-SC1123B	BLA0064-MSD1	NT1402032311.D	01/05/23 16:13	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0064

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)
8270E-SIM Dual Scan SVOC in Solid (Version:AOC4 List)

WO Comments
22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Analysis: 8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf)

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 (2) 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0459-01 A	56.6	(17.66) 17.66	(1:1)	1mL	1	0.5	
22L0459-02 A	57.9	(17.28) 17.31	(1:1)	1mL	1	0.5	
22L0459-03 A	55.0	(18.18) 18.19	(1:1)	1mL	1	0.5	
22L0459-04 A	56.4	(17.75) 17.80	(1:1)	1mL	1	0.5	
22L0459-05 A	54.6	(18.32) 18.35	(1:1)	1mL	1	0.5	
22L0459-06 A	52.4	(19.10) 19.11	(1:1)	1mL	1	0.5	
22L0459-07 A	61.1	(16.36) 16.38	(1:1)	1mL	1	0.5	

Analysis: 8270E-SIM Dual Scan SVOC

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 (2) 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0459-01 A	56.6	(17.66) 17.66	(1:1)	1mL	1	0.5	
22L0459-02 A	57.9	(17.28) 17.31	(1:1)	1mL	1	0.5	
22L0459-03 A	55.0	(18.18) 18.19	(1:1)	1mL	1	0.5	
22L0459-04 A	56.4	(17.75) 17.80	(1:1)	1mL	1	0.5	
22L0459-05 A	54.6	(18.32) 18.35	(1:1)	1mL	1	0.5	
22L0459-06 A	52.4	(19.10) 19.11	(1:1)	1mL	1	0.5	
22L0459-07 A	61.1	(16.36) 16.38	(1:1)	1mL	1	0.5	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 (2) 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLA0064-BLK1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLA0064-BS1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLA0064-BSD1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLA0064-MS1		() 17.66 17.66	(1:1)	1mL	1	0.5	Use 22L0459-01
BLA0064-MSD1		() 17.66 17.66	(1:1)	1mL	1	0.5	Use 22L0459-01
~~BLA0064-SRM1~~	~~100.0~~	~~(10.00) 10.0~~	(1:1)	1mL	1	0.5	~~Use K000591~~

R 01/04/23

See notes Thu 1/11/23

CL 1/5/2023 — Client ID verified By / Date

VRB 1/13/23 — Preparation Reviewed By / Date

01/05/23 16:17 — Extraction Date and Time

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0064

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)
8270E-SIM Dual Scan SVOC in Solid (Version:AOC4 List)

Matrix: Solid **Date Prepared:** 1/5/2023 **Balance ID:** B139298002 **Set Up By:** 01/04/23

WO Comments

22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
39	Benzidine Spike
QLS 14	QLS Spike (Freezer)

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0064

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)
8270E-SIM Dual Scan SVOC in Solid (Version:AOC4 List)

WO Comments
22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps	Reagents Used	
Microwave 1 2 3 CT 01/06/23 Analyst/Date	**Station/Reagent**	**Standard ID**
	Microwave Analyst: CT Date: 01/06/23	
	Anhydrous Sodium Sulfate	K011763
	1:1 Methylene Chloride/Acetone	K011547
	Methylene Chloride	K010561
	Pre-Deactivated Glass Wool	K010195
Pre-GPC KD 100°C Exchange to Hexane (add 10 mL to KD) 0 2 4 **5** 6 CP 1/10/23 Analyst/Date	**Pre GPC KD** Analyst: CP Date: 1/10/23	
	Pre-Deactivated Glass Wool	
	Anhydrous Sodium Sulfate	
	Methylene Chloride	K005942
	Hexane	K011373
TurboVap Pre GPC 1 2 3 **4** 5 TWC 1/11/23 Analyst/Date	**GPC Filter Prep** Analyst: TWC Date: 1/11/23	
	Methylene Chloride	K005942
Post GPC KD 80-85°C 0 2 4 **5** 6 NKB 1/13/23 Analyst/Date	**GPC** Analyst: TWC Date: 1/11/23	
	Methylene Chloride	K005942
	GPC Calibration File	CLK0035-GPC2
TurboVap 1 2 3 **4** 5 NKB 1/13/23 Analyst/Date	**Post GPC KD** Analyst: NKB Date: 1/13/23	
	Methylene Chloride	K005942
Water Wash NKB 1/13/23 Analyst/Date	**Vialing** Analyst: NKB Date: 1/13/23	
	Methylene Chloride	K005942

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 100/150µg/mL	A K010466 Exp Date: 5/9/2023	50µL	CT	✓
Full List Spike (Freezer) 100µg/mL	7 K010225 (V) Exp K011297 Date: 8/31/2023	50µL	CT	✓
Base Spike 200µg/mL	56 K010225 (V) Exp K013759 Date: 4/19/2023	50µL	CT	✓
Acid Spike 100/200µg/mL	38 K010225 (V) Exp K013764 Date: 4/19/2023	50µL	CT	✓

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0064

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)
8270E-SIM Dual Scan SVOC in Solid (Version:AOC4 List)

WO Comments

22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add DCM ONLY to the vessels (until solvent is 3 inches above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 10-15 min in Refridgerator 05. Re-homogenize while cool. 7. Decant DCM into Erienmeyer flask with a funnel containing pre-deactivated glasswool. 8. Rinse with DCM 9. Microwave a 2nd time using 1:1 DCM/ACE. 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with DCM. 11. KD: Add 10 mL Hexane directly to extract in the KD. 12. GPC REQUIRED 100°C water bath (CLP) KD to 5mL. 13. Vialers to take 1:5 Split Pre- GPC. 14. (After GPC): KD at 80°C. 15. TurboVap to 1mL in DCM. 16. WATER WASH REQUIRED: 16a. Vial 1mL of all extracts in 2mL amber vials in DCM. 16b. Add ~0.5mL DI water and vortex for ~5 seconds each. 16c. Centrifuge extracts for 5 minutes at 1500-2000rpm. 16d. Transfer and vial 0.5mL to new 2mL amber vials (Avoiding collecting water in syringe and cleaning syringe with Acetone and DCM between each vial). 17. Archive water wahed vials and deliever new vials to GC Department for analysis. A. Need Total Solids Y / N B. Archive/Freeze Y / N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PSDOA/SVOC Extraction Batch: BLA0064

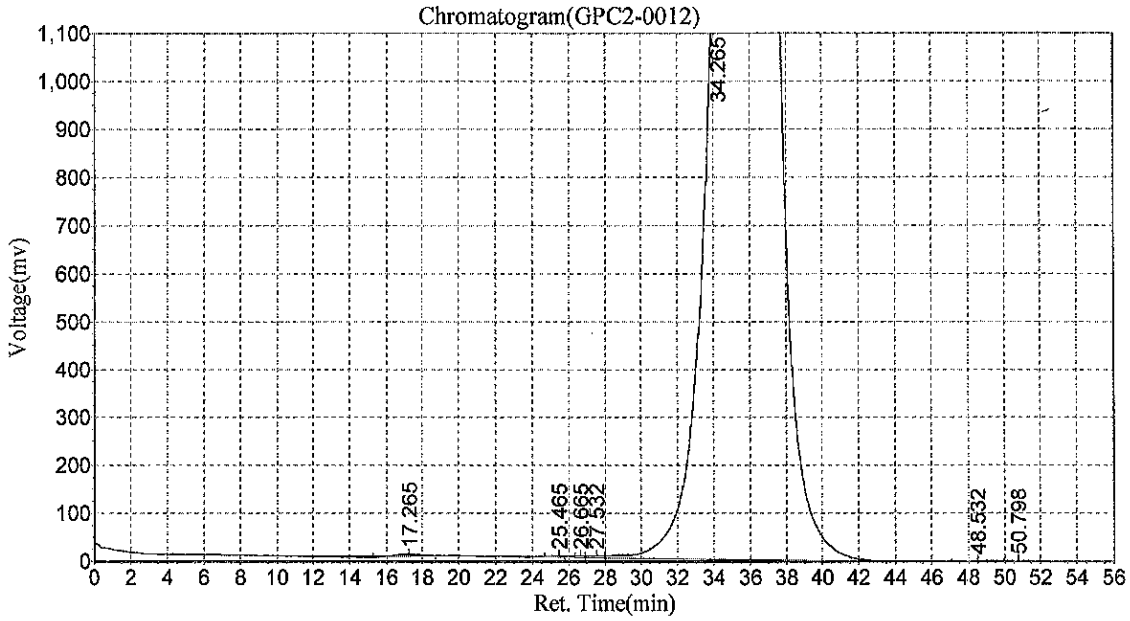
Total Solids Batch: BKL0664 Work Order(s): 22L0459

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 01-07	CR 12/30/22
[X] Standing Water Decanted (Not shared)= 07	CR 12/30/22
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[X] Previously Frozen = 01-07	CR 12/30/22
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[X] Other Notes/Comments= (Note problems, concerns, corrective actions). TWC 1/11/23 ~~Turbo tube w/ SRM broke and SRM was completely lost - confirmed w/ PM that it was okay to continue on w/ NO SRM~~ Turbo tube w/ SRM broke and extract was lost - PM confirmed to continue on w/o SRM	TWC 1/11/23
[X] Share Samples Y / (N)	CR 12/30/22
[X] Multiple Jars Y / (N)	CR 12/30/22
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-11,11:47:25 PM
Data File:c:\n2000\data\gpc2\011123\GPC2-0012
Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
Date/Time2023-01-11,11:47:26 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.265	4124.792	472130.063	0.1141
2		25.465	2737.385	135159.188	0.0327
3		26.665	3543.673	119488.547	0.0289
4		27.532	4396.048	253699.391	0.0613
5		34.265	1370326.500	412558432.000	99.6614
6		48.532	2315.200	255654.484	0.0618
7		50.798	1954.920	165402.453	0.0400
Total			1389398.518	413959966.125	100.000

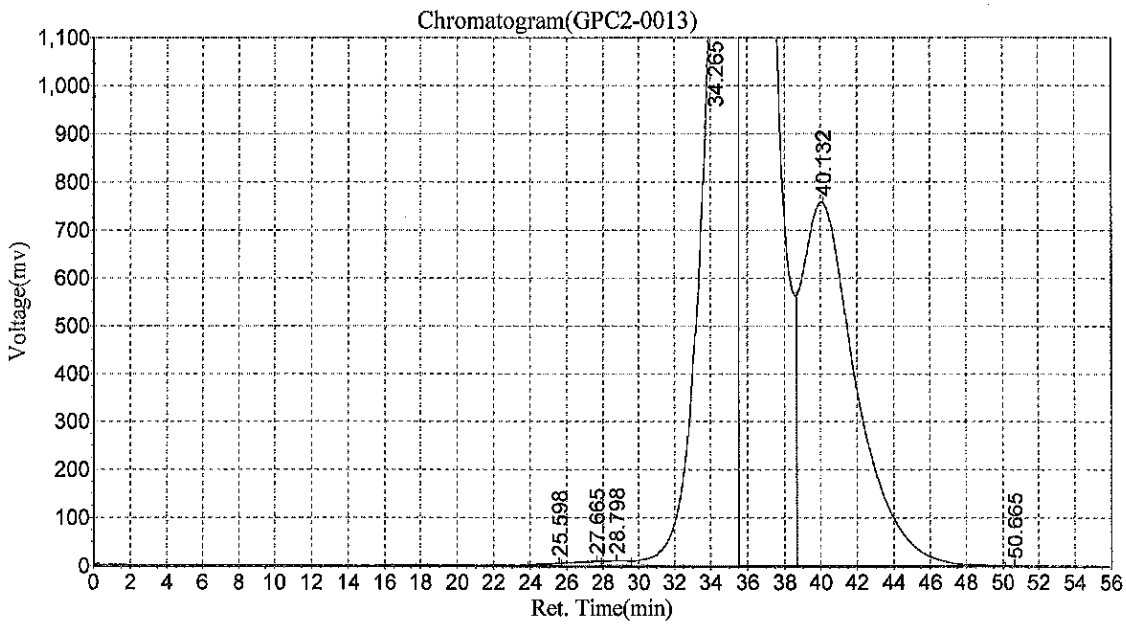
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-12,12:45:07 AM
Data File:c:\n2000\data\gpc2\011123\GPC2-0013
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-12,12:45:09 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		25.598	4900.369	307773.688	0.0885
2		27.665	8696.245	922940.563	0.2654
3		28.798	10413.759	959961.000	0.2760
4		34.265	1373576.125	187233200.000	53.8310
5		40.132	757711.875	158237600.000	45.4945
6		50.665	2190.417	155298.094	0.0446
Total			2157488.790	347816773.344	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-12,1:42:49 AM
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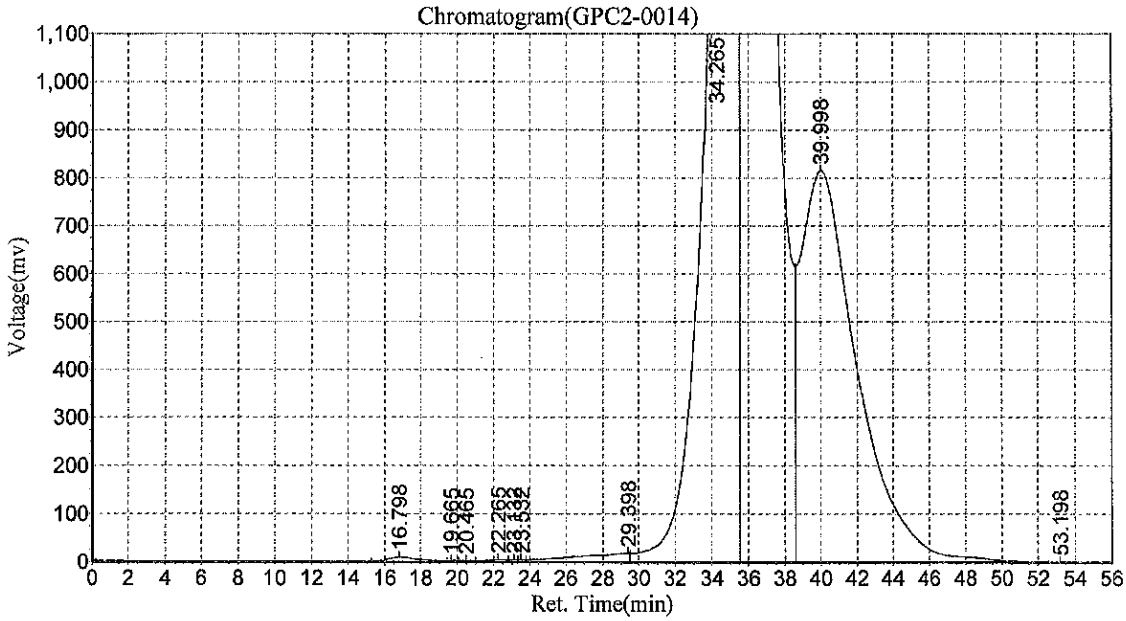
Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
Date/Time2023-01-12,1:42:51 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.798	9936.963	1230275.625	0.3222
2		19.665	3850.095	141855.469	0.0372
3		20.465	3883.993	211823.703	0.0555
4		22.265	5049.262	461390.625	0.1208
5		23.132	5005.650	152564.781	0.0400
6		23.532	5055.599	137628.047	0.0360
7		29.398	18717.846	4192658.000	1.0980
8		34.265	1375307.750	197529008.000	51.7322
9		39.998	815888.000	177638272.000	46.5228
10		53.198	1840.291	134775.625	0.0353
Total			2244535.449	381830251.875	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

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Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
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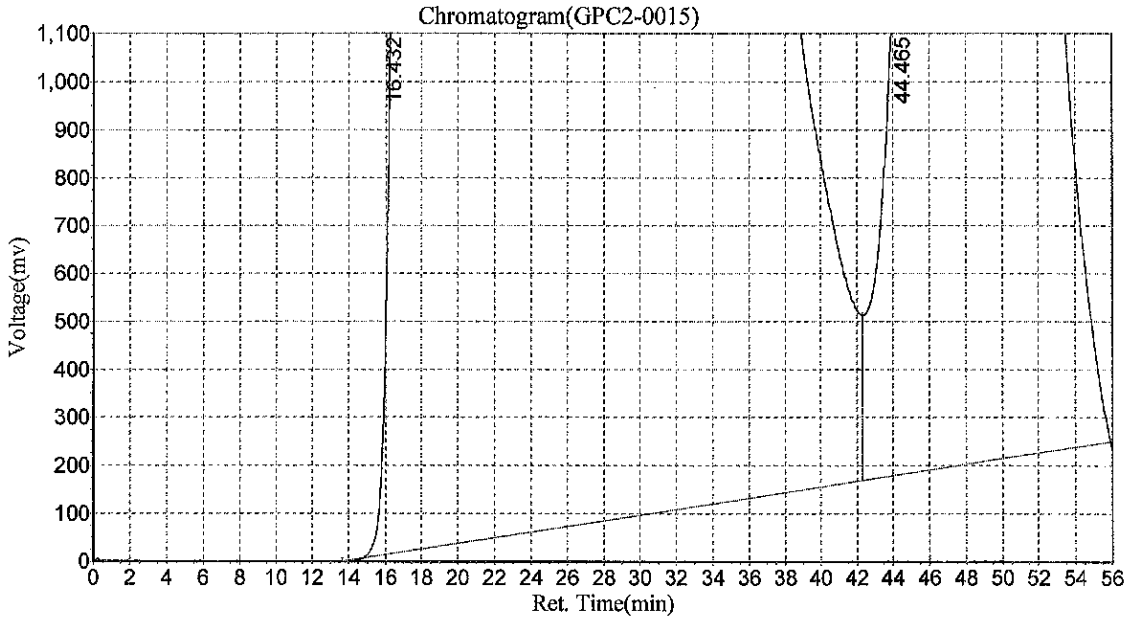


Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.432	1362821.250	1869500160.000	70.9798
2		44.465	1193203.500	764346880.000	29.0202
Total			2556024.750	2633847040.000	100.000

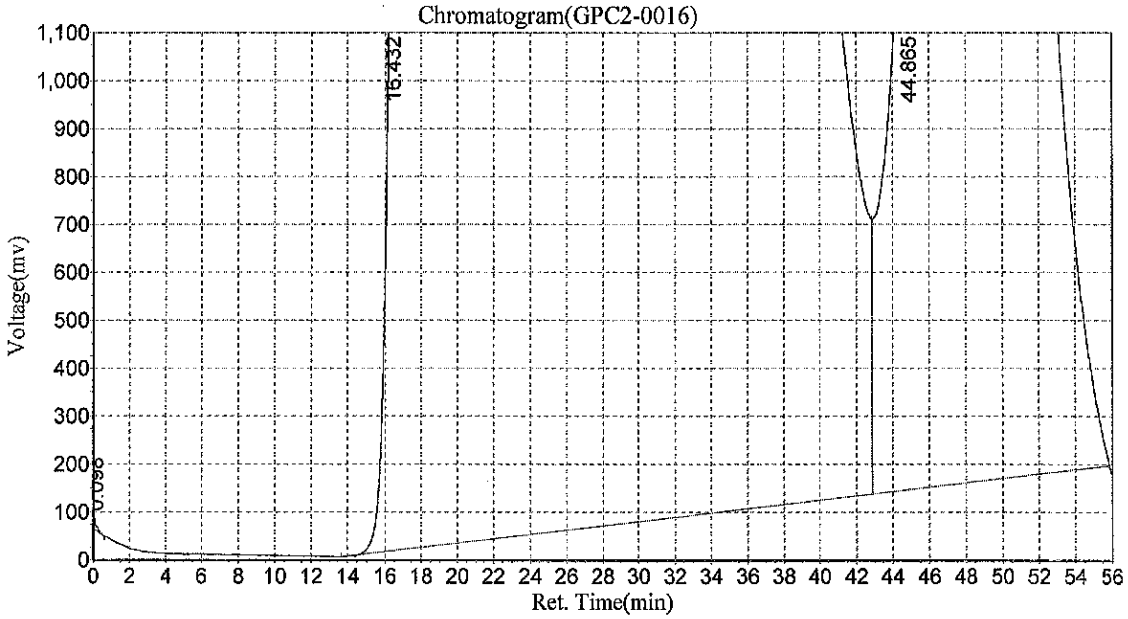
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-12,3:38:19 AM
Data File:c:\n2000\data\gpc2\011123\GPC2-0016
Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
Date/Time2023-01-12,3:38:20 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.098	10223.777	124340.398	0.0045
2		16.432	1359033.250	1988065664.000	72.4609
3		44.865	1225611.750	755449664.000	27.5346
Total			2594868.777	2743639668.398	100.000

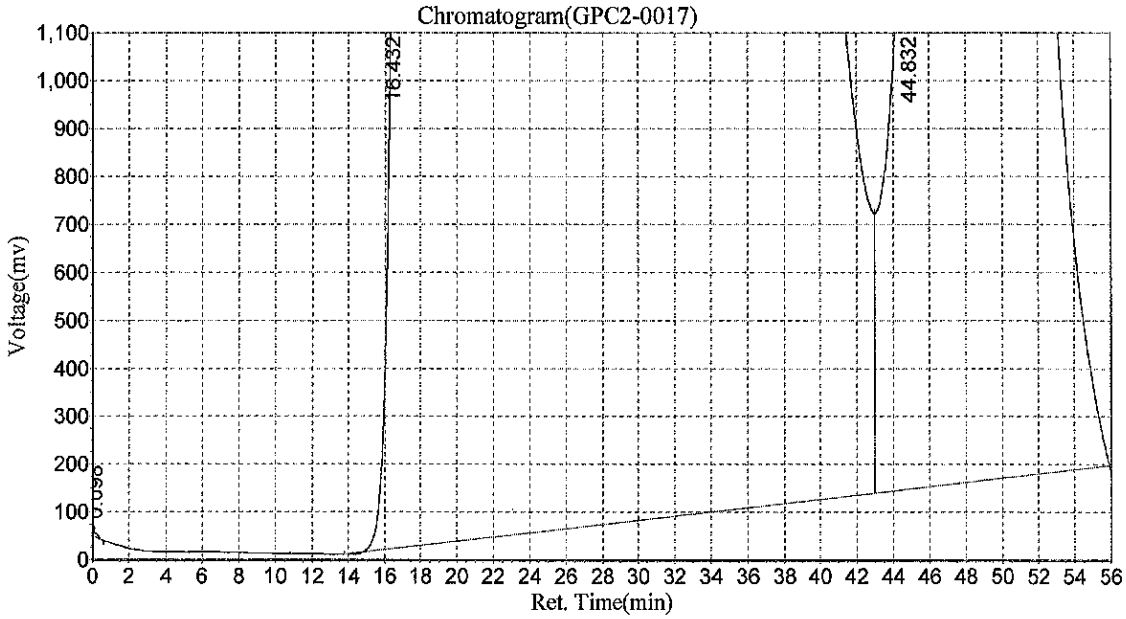
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-12,4:36:03 AM
Data File:c:\n2000\data\gpc2\011123\GPC2-0017
Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
Date/Time2023-01-12,4:36:04 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.098	8264.667	126936.797	0.0046
2		16.432	1356264.250	1976438400.000	72.3643
3		44.832	1227733.375	754667712.000	27.6310
Total			2592262.292	2731233048.797	100.000

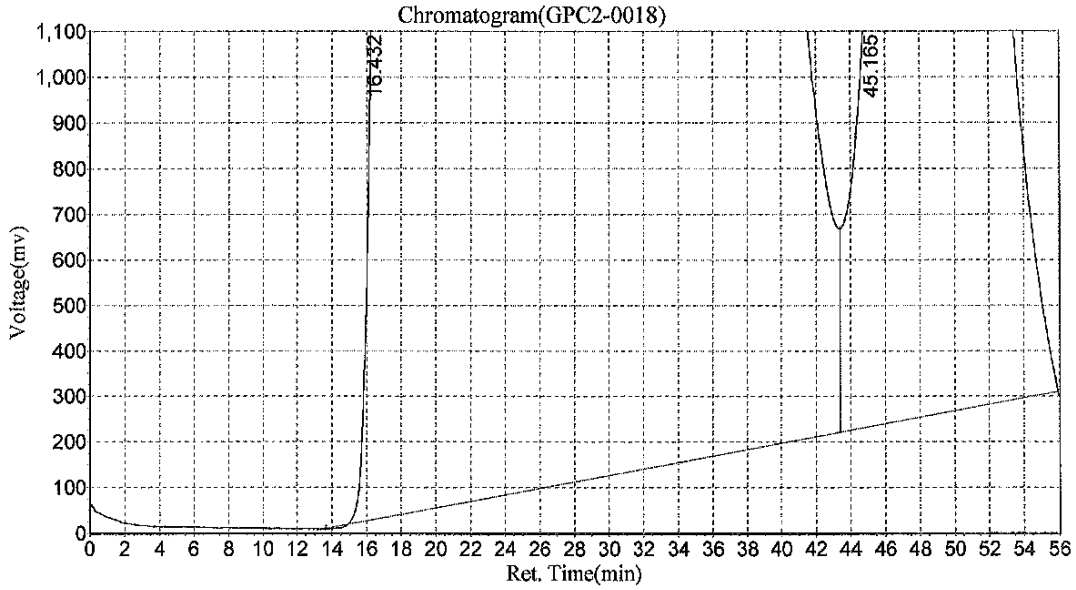
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-12,5:33:45 AM
Data File:c:\n2000\data\gpc2\011123\GPC2-0018
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-12,5:33:46 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.432	1350121.750	1912228096.000	74.0445
2		45.165	1141061.750	670311424.000	25.9555
Total			2491183.500	2582539520.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-12,8:26:53 AM
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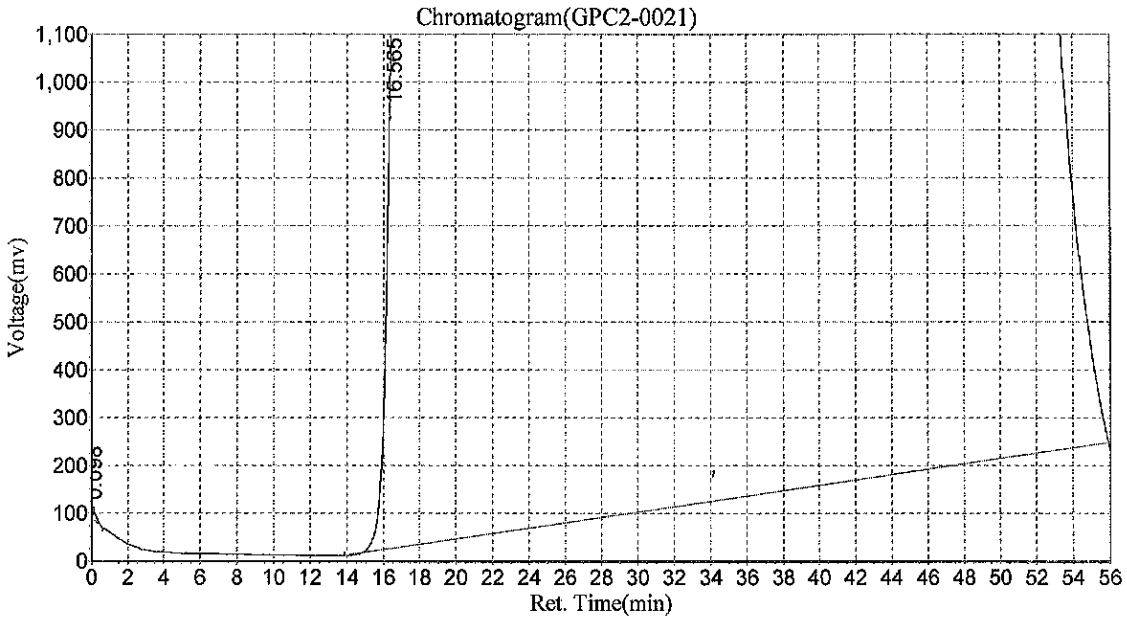
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-12,8:26:54 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.098	13280.111	182083.203	0.0064
2		16.565	1352261.500	2826899968.000	99.9936
Total			1365541.611	2827082051.203	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-12,9:24:34 AM
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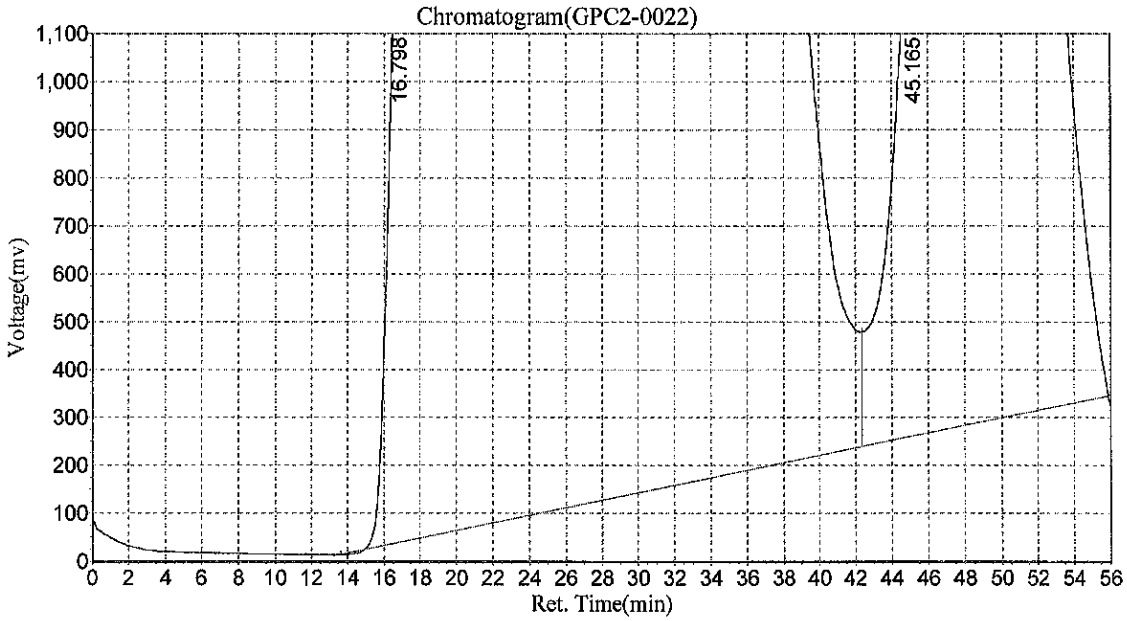
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-12,9:24:36 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.798	1339576.125	1662511104.000	70.8931
2		45.165	1110858.750	682584192.000	29.1069
Total			2450434.875	2345095296.000	100.000

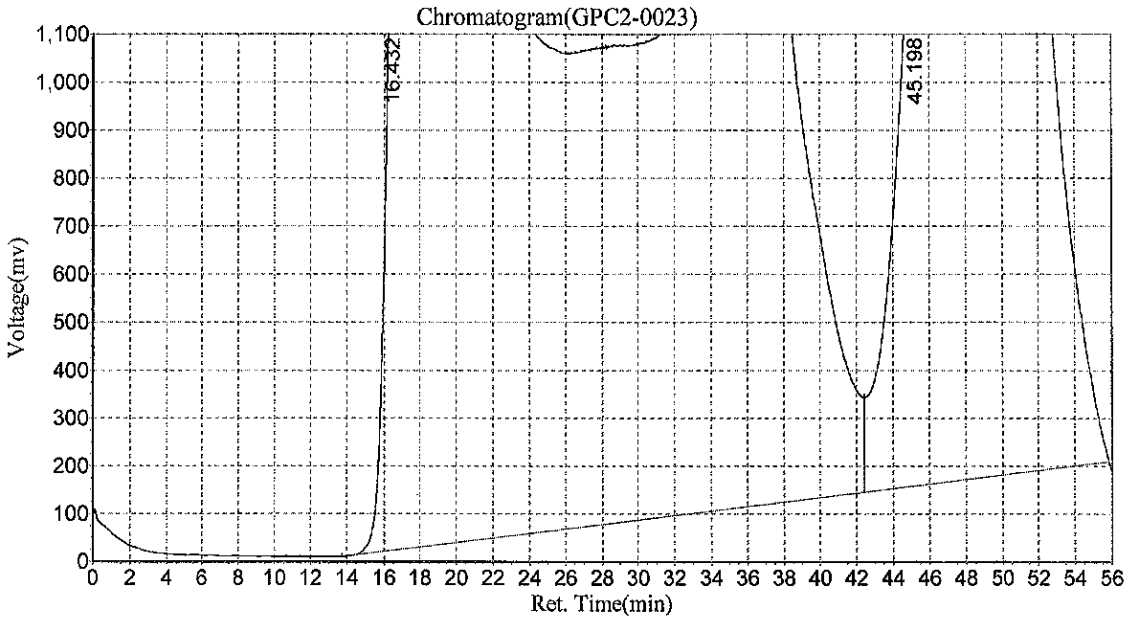
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-12,10:22:18 AM
Data File:c:\n2000\data\gpc2\011123\GPC2-0023
Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
Date/Time2023-01-12,10:22:20 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.432	1356088.750	1670189952.000	70.3528
2		45.198	1214622.250	703830464.000	29.6472
Total			2570711.000	2374020416.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8270E

Blank

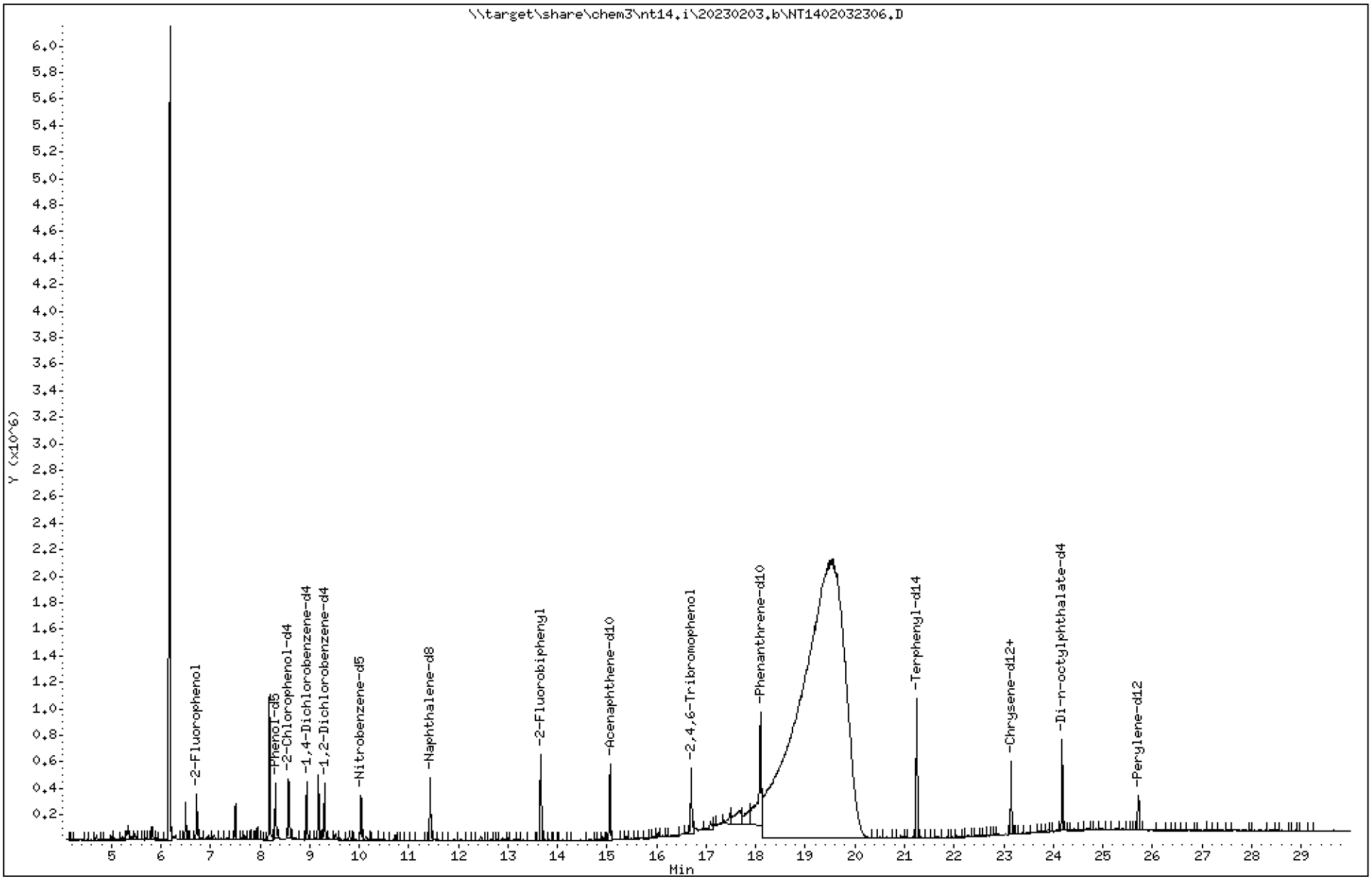
Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLA0064-BLK1	File ID:	NT1402032306.D
Sampled:	N/A	Prepared:	01/05/23 16:13	Analyzed:	02/03/23 16:08
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BLA0064	Sequence:	SLB0035	Calibration:	GA00072
Instrument:	NT14	Column:	ZB-5MS		

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
108-95-2	Phenol	1	20.0	U	4.4	20.0
106-44-5	4-Methylphenol	1	20.0	U	7.4	20.0
91-20-3	Naphthalene	1	20.0	U	4.2	20.0
91-57-6	2-Methylnaphthalene	1	20.0	U	4.5	20.0
208-96-8	Acenaphthylene	1	20.0	U	6.2	20.0
131-11-3	Dimethylphthalate	1	20.0	U	4.4	20.0
83-32-9	Acenaphthene	1	20.0	U	5.2	20.0
132-64-9	Dibenzofuran	1	20.0	U	14.1	20.0
86-73-7	Fluorene	1	20.0	U	14.6	20.0
85-01-8	Phenanthrene	1	20.0	U	8.7	20.0
120-12-7	Anthracene	1	20.0	U	7.2	20.0
206-44-0	Fluoranthene	1	20.0	U	6.1	20.0
129-00-0	Pyrene	1	20.0	U	5.7	20.0
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0
56-55-3	Benzo(a)anthracene	1	20.0	U	6.0	20.0
218-01-9	Chrysene	1	20.0	U	6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	50.0	U	5.5	50.0
	Benzofluoranthenes, Total	1	40.0	U	10.0	40.0
50-32-8	Benzo(a)pyrene	1	20.0	U	4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	20.0	U	14.7	20.0
53-70-3	Dibenzo(a,h)anthracene	1	20.0	U	17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	20.0	U	13.6	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	750.00	419	55.8	27 - 120	
Phenol-d5	750.00	473	63.0	29 - 120	
2-Chlorophenol-d4	750.00	527	70.2	31 - 120	
1,2-Dichlorobenzene-d4	500.00	397	79.3	32 - 120	
Nitrobenzene-d5	500.00	382	76.5	30 - 120	
2-Fluorobiphenyl	500.00	426	85.1	35 - 120	
2,4,6-Tribromophenol	750.00	449	59.9	24 - 134	
p-Terphenyl-d14	500.00	492	98.5	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032306.D
Date : 03-FEB-2023 16:08
Client ID:
Sample Info: BLA0064-BLK1

Instrument: nt14.i
Operator: DSD
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 03-FEB-2023 16:08

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BLK1

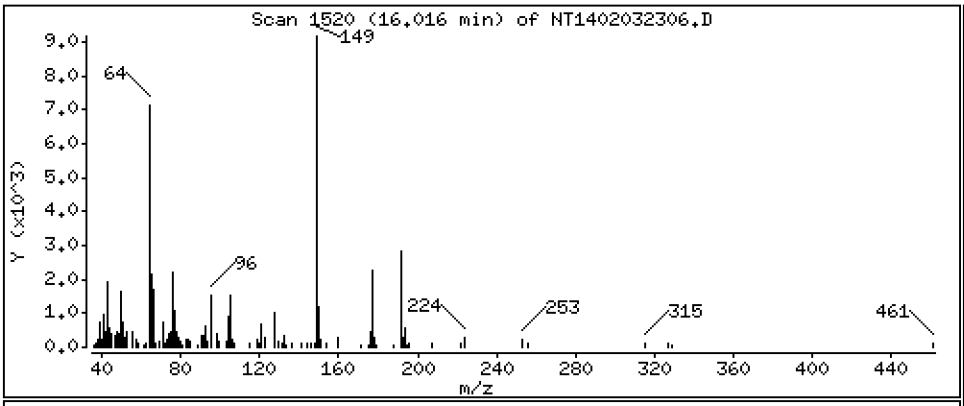
Operator: DSD

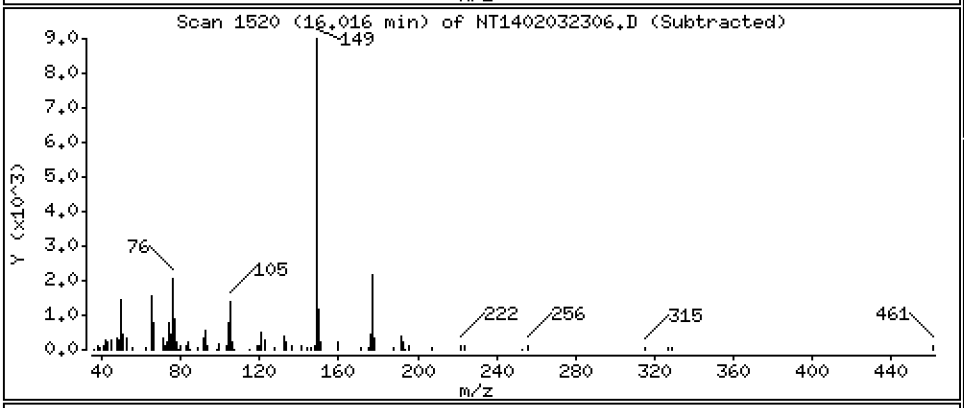
Column phase: ZB-5msi

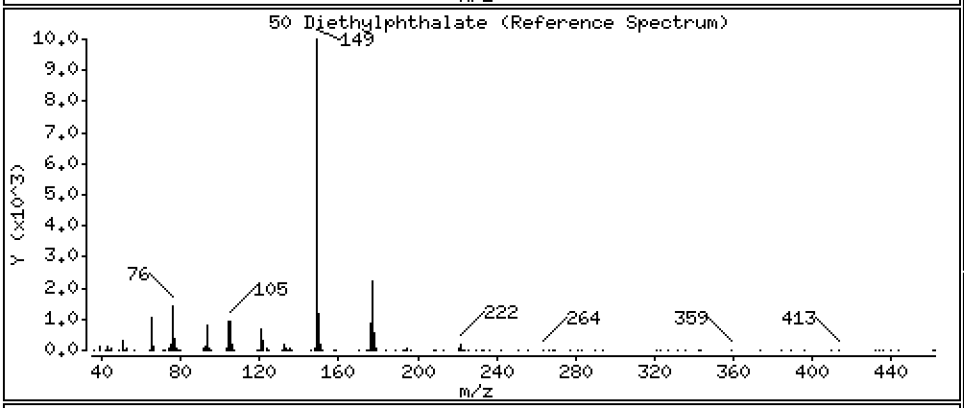
Column diameter: 0.25

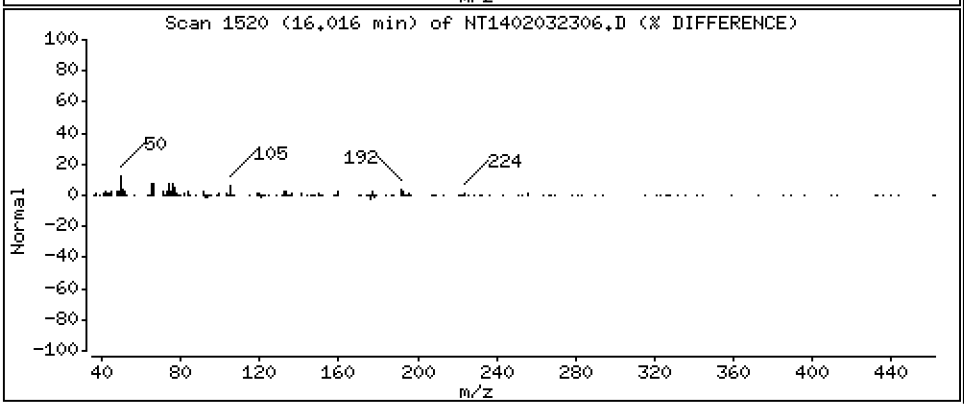
50 Diethylphthalate

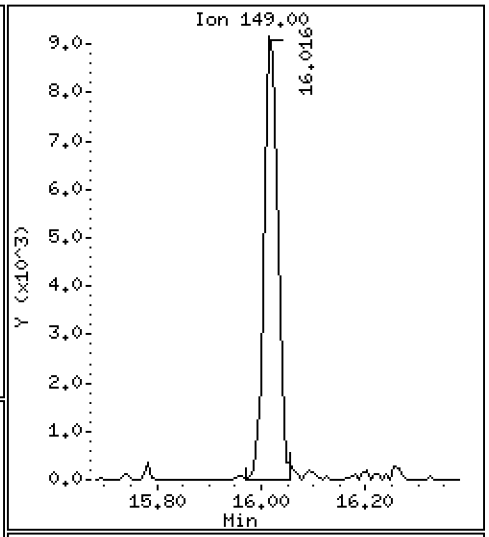
Concentration: 0.1789 ug/mL

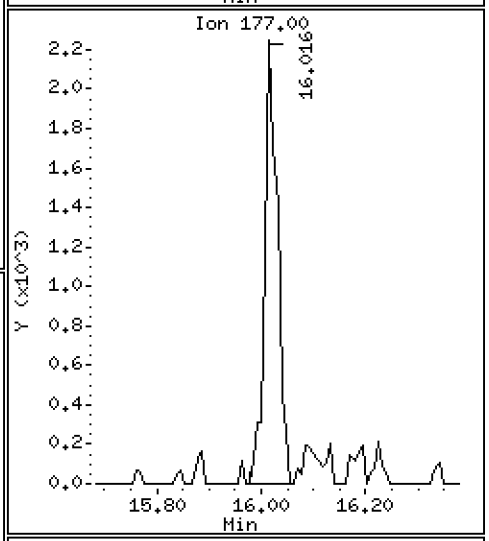


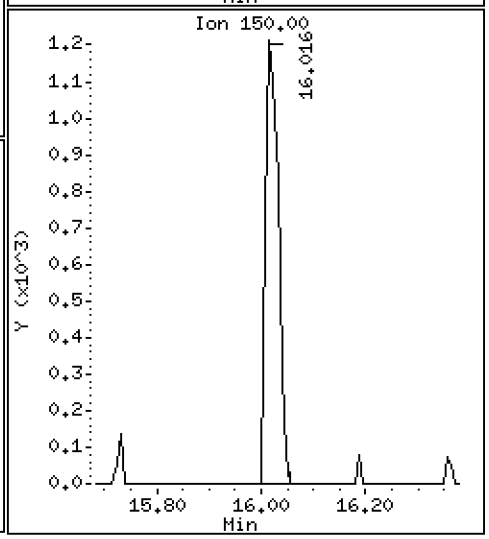












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032306.D

Date : 03-FEB-2023 16:08

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BLK1

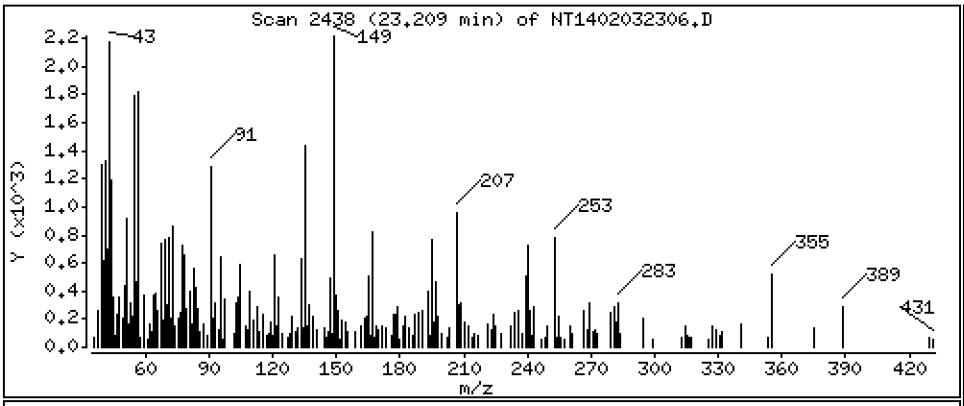
Operator: DSD

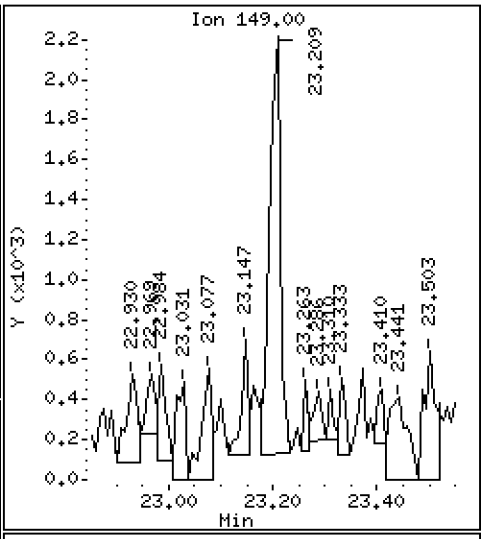
Column phase: ZB-5msi

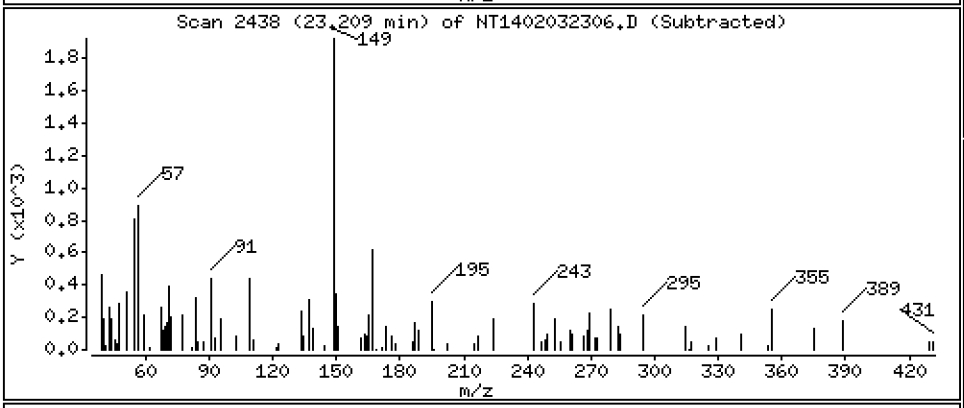
Column diameter: 0.25

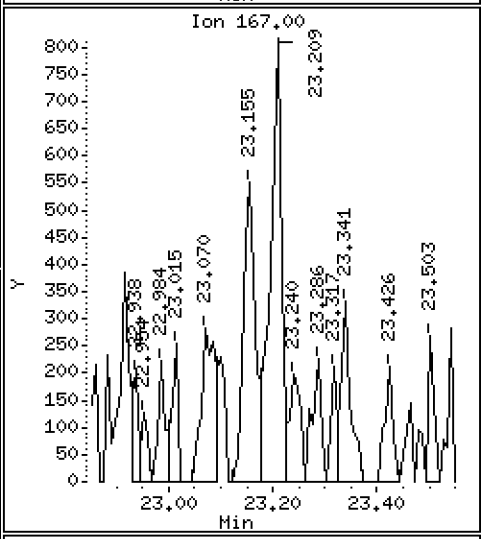
72 bis(2-Ethylhexyl)phthalate

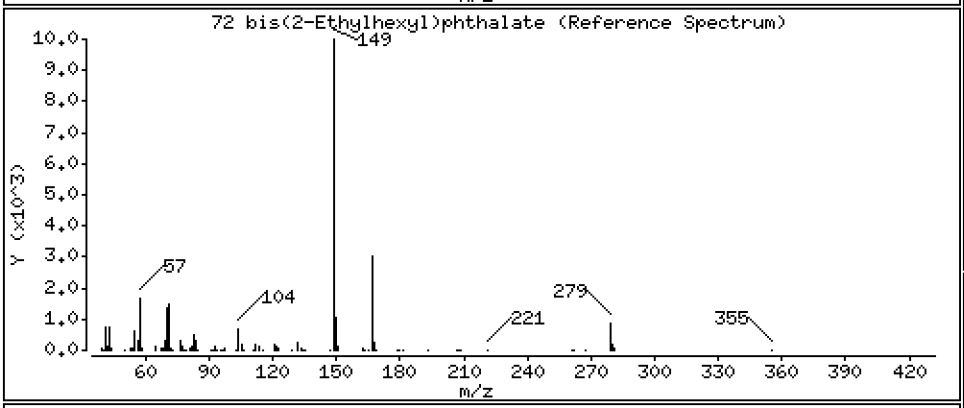
Concentration: 0.04510 ug/mL

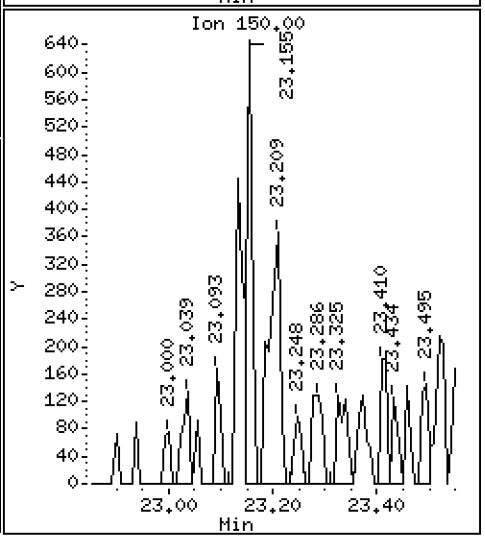


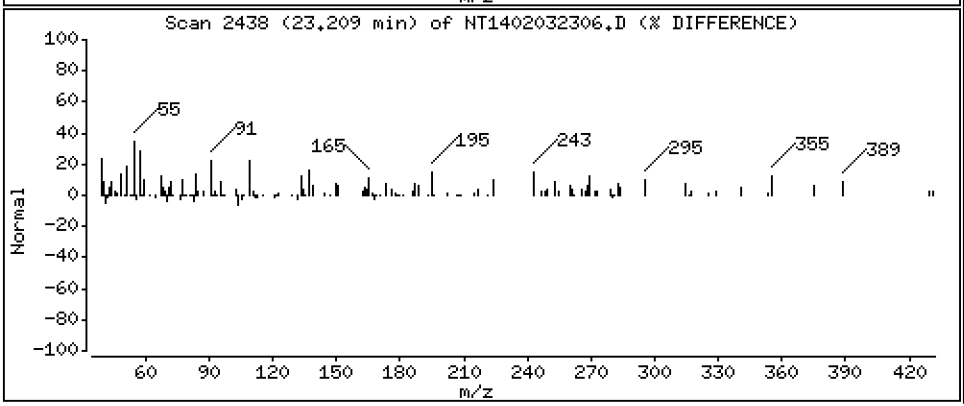












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230203.b\NT1402032306.D
Lab Smp Id: BLA0064-BLK1
Inj Date : 03-FEB-2023 16:08 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : BLA0064-BLK1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.720	6.720	(0.751)	73475	4.18744	4.187
$	2 Phenol-d5	99	8.312	8.312	(0.929)	108973	4.72678	4.727
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	8.583	8.583	(0.959)	117406	5.26517	5.265
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.946	8.946	(1.000)	65329	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.040)	62766	3.96606	3.966
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.033	10.041	(0.877)	139121	3.82264	3.823
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.436	11.436	(1.000)	254364	4.00000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	13.664	13.664	(0.907)	247613	4.25733	4.257
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	15.057	15.057	(1.000)	163426	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	16.016	16.031	(1.064)	16276	0.17888	0.1789
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	16.702	16.702	(1.109)	60143	4.49124	4.491
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.093	18.093	(1.000)	351759	4.00000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					
$	66 Terphenyl-d14	244	21.250	21.250	(0.918)	388712	4.92251	4.923
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	23.154	23.154	(1.000)	239033	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	Compound Not Detected.					
	72 bis(2-Ethylhexyl)phthalate	149	23.209	23.201	(0.960)	2846	0.04510	0.04510
*	134 Di-n-octylphthalate-d4	153	24.184	24.184	(1.000)	391768	4.00000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	Compound Not Detected.					
	75 Benzo(k)fluoranthene	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	25.725	25.725	(1.000)	167267	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	142	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032306.D
Lab Smp Id: BLA0064-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	65329	0.59
27 Naphthalene-d8	262858	131429	525716	254364	-3.23
42 Acenaphthene-d10	167543	83772	335086	163426	-2.46
59 Phenanthrene-d10	341039	170520	682078	351759	3.14
69 Chrysene-d12	222731	111366	445462	239033	7.32
134 Di-n-octylphthala	333425	166713	666850	391768	17.50
77 Perylene-d12	152721	76361	305442	167267	9.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.95	-0.00
27 Naphthalene-d8	11.44	10.94	11.94	11.44	-0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	-0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.09	-0.00
69 Chrysene-d12	23.15	22.65	23.65	23.15	-0.00
134 Di-n-octylphthala	24.18	23.68	24.68	24.18	-0.00
77 Perylene-d12	25.73	25.23	26.23	25.73	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032306.D

Lab ID: BLA0064-BLK1
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 16:08

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1402032303.D

On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	02/03/23 16:44
Batch:	BLA0064	Laboratory ID:	BLA0064-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #		QC LIMITS REC.
Phenol	500	156	*	31.1	*	34 - 120
4-Methylphenol	500	148		29.6		29 - 120
Naphthalene	500	232		46.4		43 - 120
2-Methylnaphthalene	500	217		43.5		43 - 120
Acenaphthylene	500	226		45.2		42 - 120
Dimethylphthalate	500	246		49.2		43 - 120
Acenaphthene	500	225		45.1		45 - 120
Dibenzofuran	500	224		44.8		43 - 120
Fluorene	500	224	*	44.8	*	45 - 120
Phenanthrene	500	226	*	45.1	*	49 - 120
Anthracene	500	187	*	37.4	*	45 - 120
Fluoranthene	500	254	*	50.7	*	53 - 145
Pyrene	500	259	*	51.8	*	52 - 134
Butylbenzylphthalate	500	250		49.9		45 - 132
Benzo(a)anthracene	500	228	*	45.6	*	49 - 120
Chrysene	500	237		47.4		47 - 120
bis(2-Ethylhexyl)phthalate	500	262		52.3		34 - 130
Benzofluoranthenes, Total	1000	468		46.8		30 - 160
Benzo(a)pyrene	500	224		44.9		42 - 120
Indeno(1,2,3-cd)pyrene	500	199	*	39.8	*	42 - 163
Dibenzo(a,h)anthracene	500	208		41.6		30 - 133
Benzo(g,h,i)perylene	500	203	*	40.7	*	46 - 148

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #		% RPD #		QC LIMITS RPD	QC LIMITS REC.
Phenol	500	251	*	50.1		46.7	*	30	34 - 120
4-Methylphenol	500	228	*	45.6		42.7	*	30	29 - 120
Naphthalene	500	381	*	76.2		48.6	*	30	43 - 120
2-Methylnaphthalene	500	356	*	71.2		48.3	*	30	43 - 120
Acenaphthylene	500	382	*	76.5		51.5	*	30	42 - 120
Dimethylphthalate	500	426	*	85.3		53.7	*	30	43 - 120
Acenaphthene	500	406	*	81.2		57.2	*	30	45 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	02/03/23 17:20
Batch:	BLA0064	Laboratory ID:	BLA0064-BSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS Dup
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #		QC LIMITS RPD	QC LIMITS REC.
Dibenzofuran	500	381	*	76.2	51.9	*	30	43 - 120
Fluorene	500	402	*	80.4	56.8	*	30	45 - 120
Phenanthrene	500	401	*	80.2	55.9	*	30	49 - 120
Anthracene	500	330	*	66.0	55.3	*	30	45 - 120
Fluoranthene	500	452	*	90.4	56.2	*	30	53 - 145
Pyrene	500	452	*	90.4	54.3	*	30	52 - 134
Butylbenzylphthalate	500	453	*	90.5	57.8	*	30	45 - 132
Benzo(a)anthracene	500	419	*	83.8	59.0	*	30	49 - 120
Chrysene	500	422	*	84.5	56.2	*	30	47 - 120
bis(2-Ethylhexyl)phthalate	500	466	*	93.2	56.1	*	30	34 - 130
Benzofluoranthenes, Total	1000	910	*	91.0	64.1	*	30	30 - 160
Benzo(a)pyrene	500	419	*	83.7	60.4	*	30	42 - 120
Indeno(1,2,3-cd)pyrene	500	387	*	77.3	64.1	*	30	42 - 163
Dibenzo(a,h)anthracene	500	390	*	78.1	60.9	*	30	30 - 133
Benzo(g,h,i)perylene	500	386	*	77.3	62.1	*	30	46 - 148

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

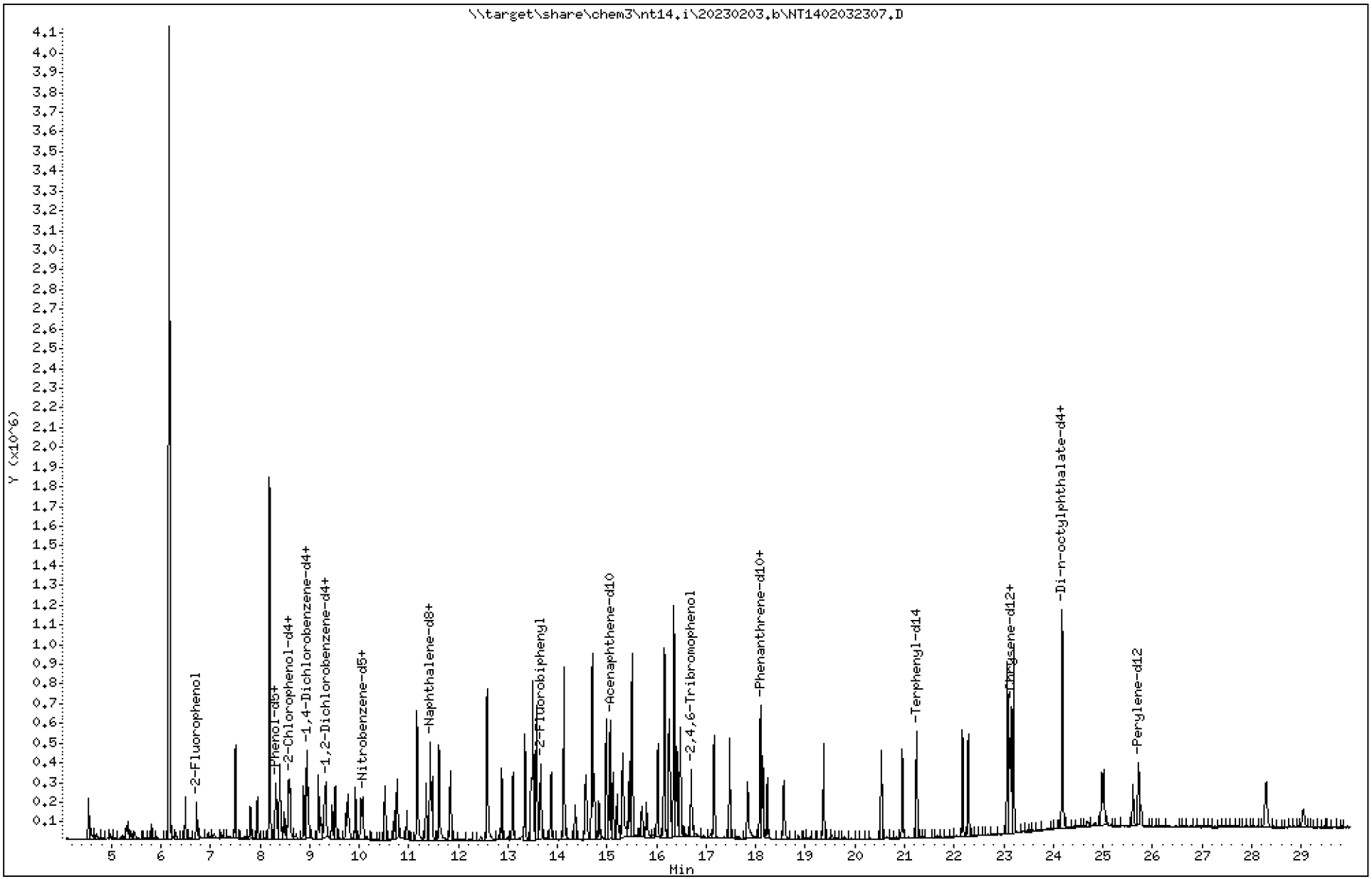
Instrument: nt14.i

Sample Info: BLA0064-BS1

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

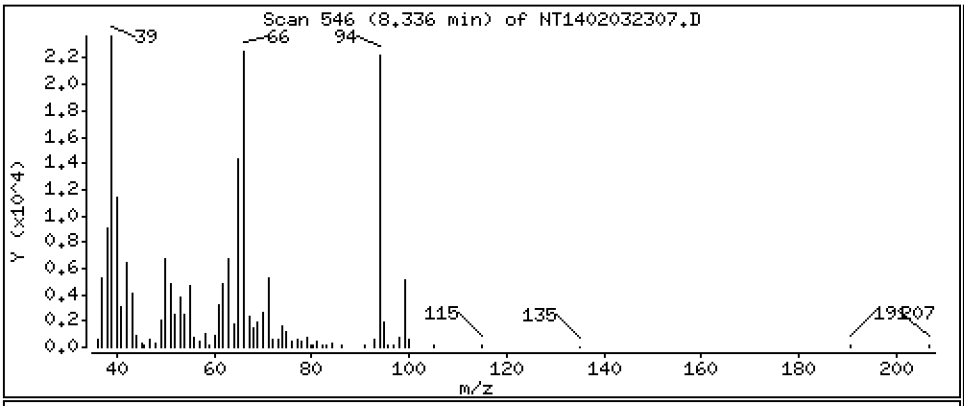
Operator: DSD

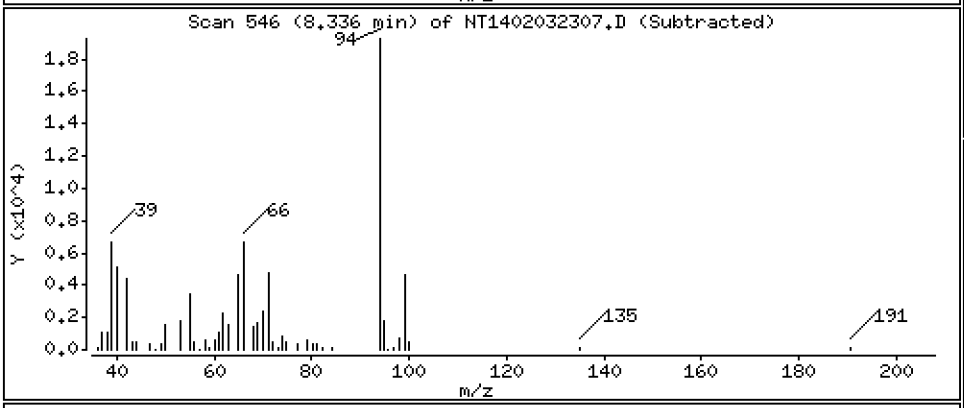
Column phase: ZB-5msi

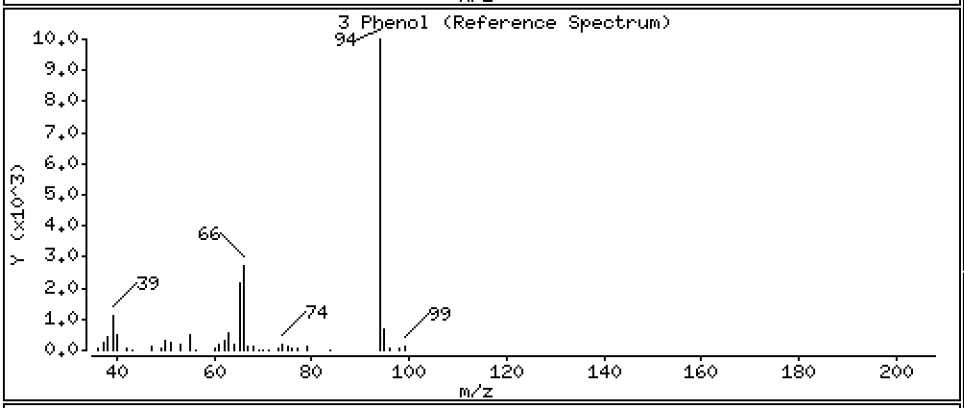
Column diameter: 0.25

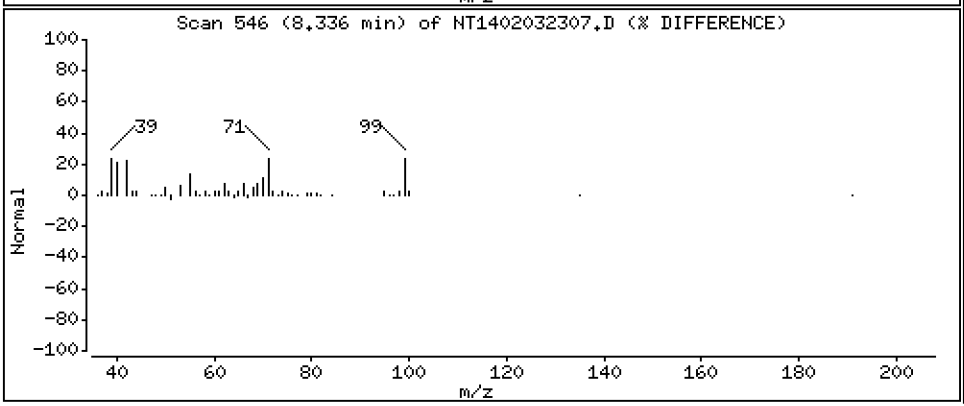
3 Phenol

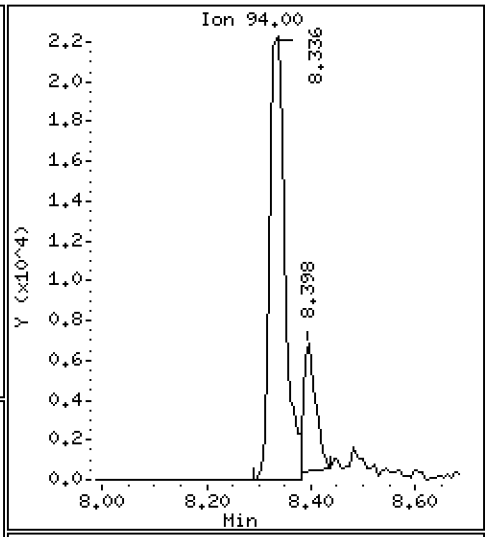
Concentration: 1.557 ug/mL

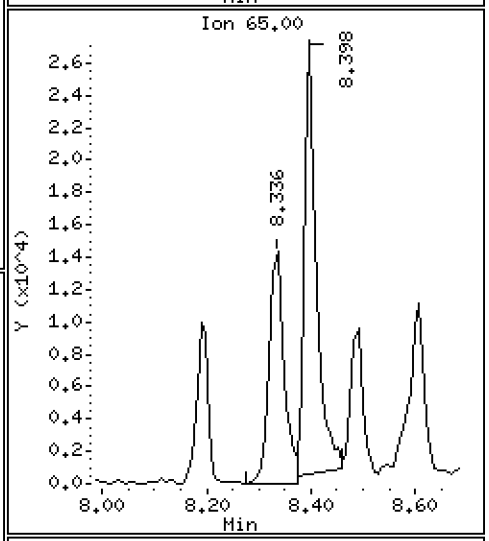


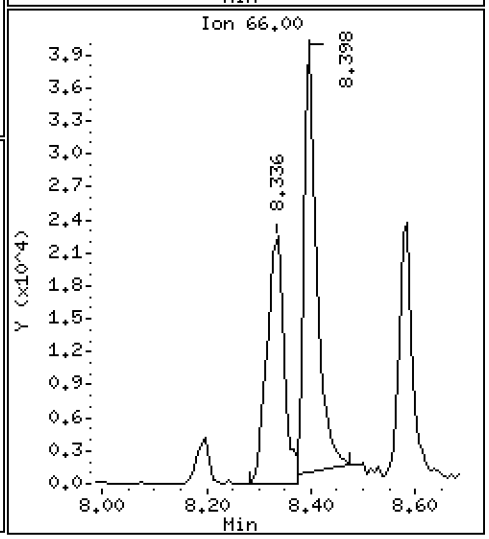












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

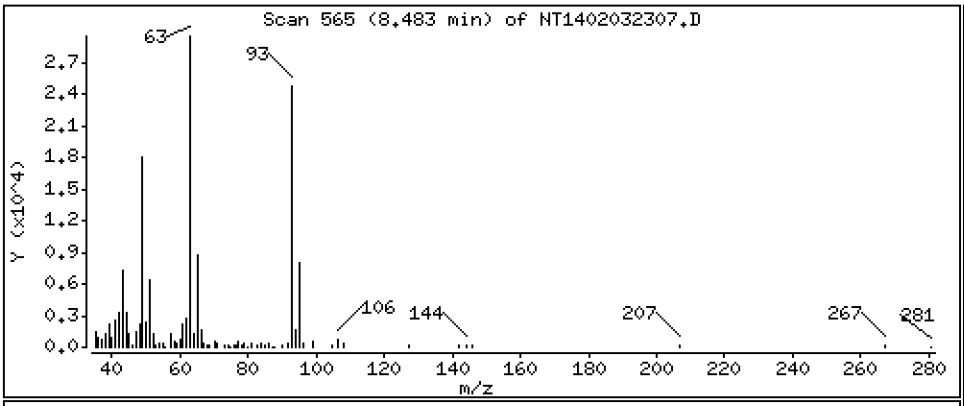
Operator: DSD

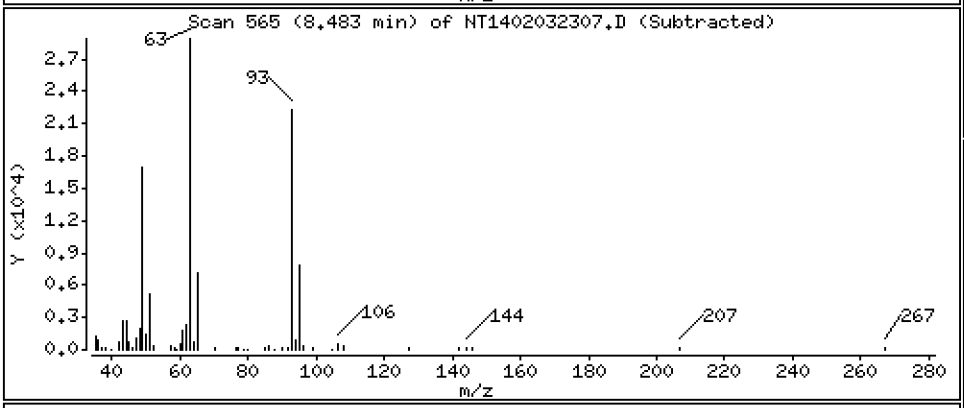
Column phase: ZB-5msi

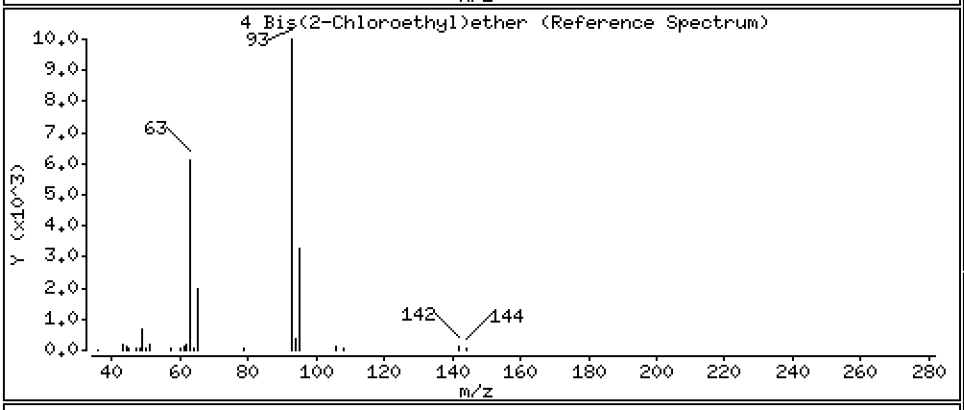
Column diameter: 0.25

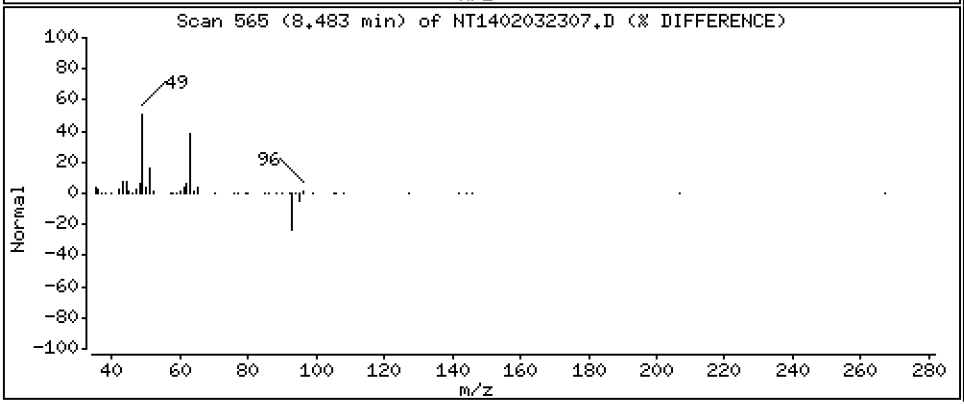
4 Bis(2-Chloroethyl)ether

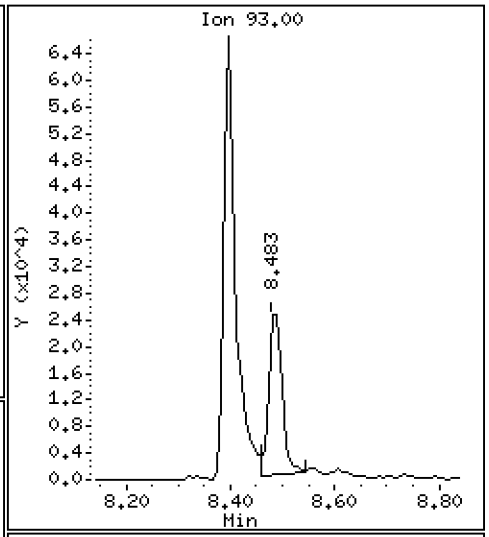
Concentration: 2.567 ug/mL

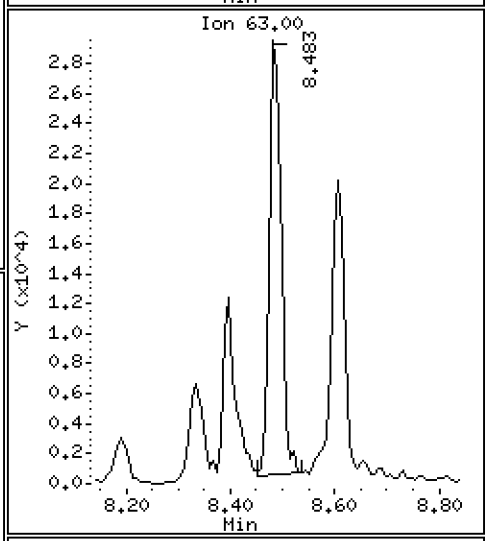


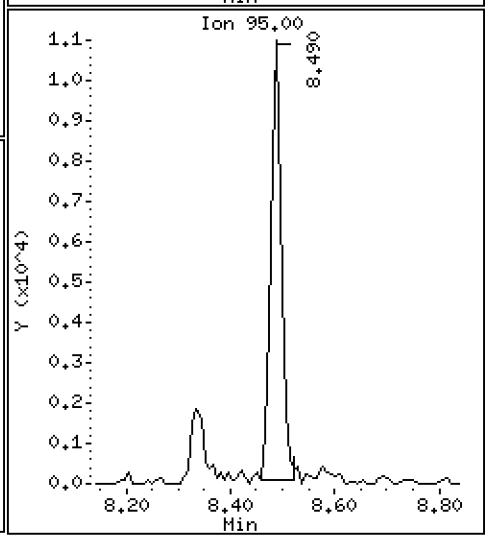












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

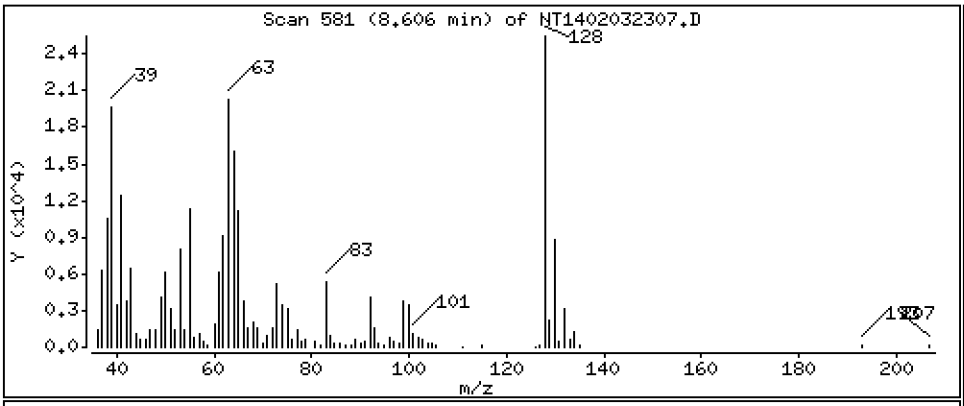
Operator: DSD

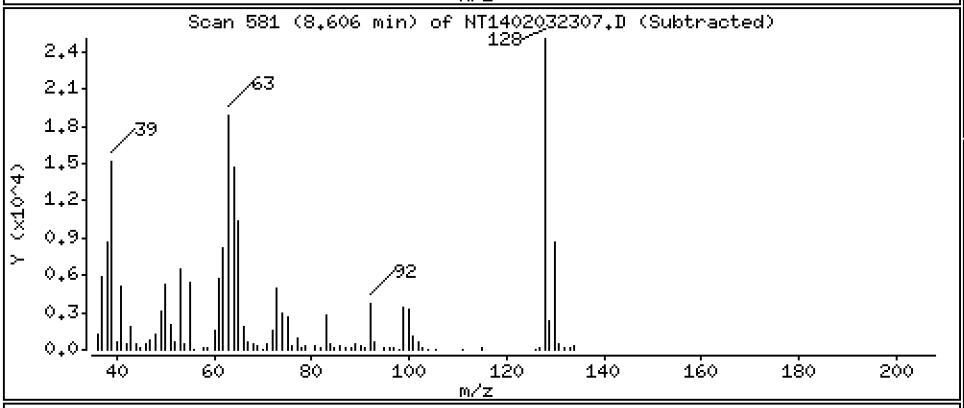
Column phase: ZB-5msi

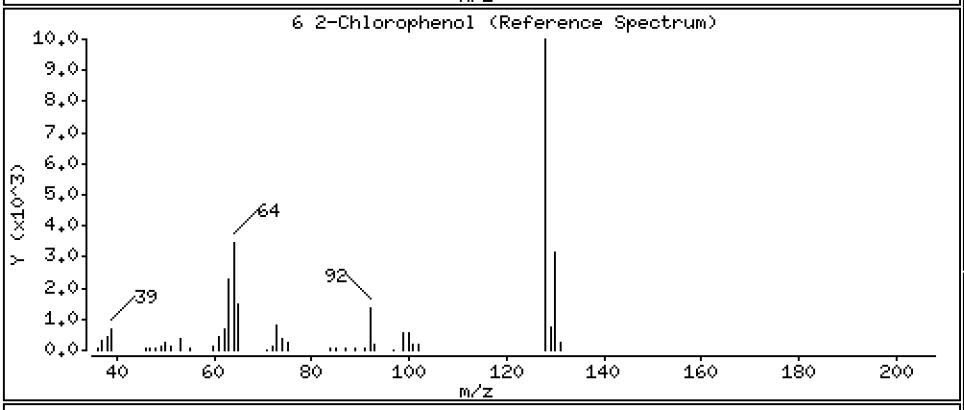
Column diameter: 0.25

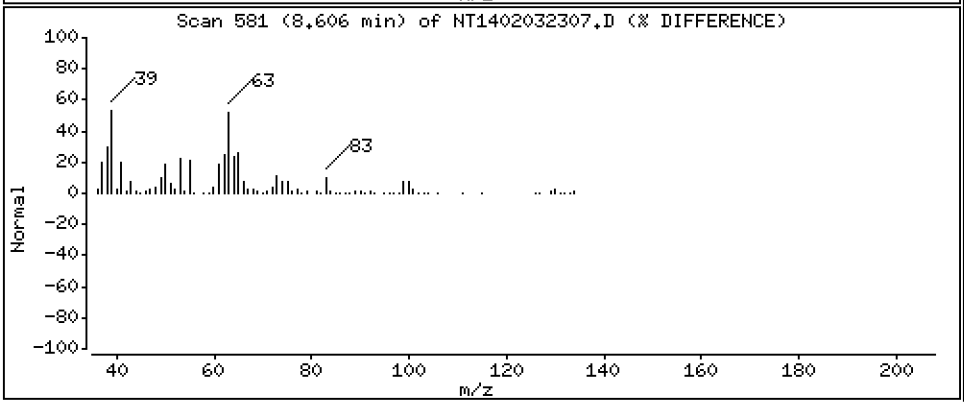
6 2-Chlorophenol

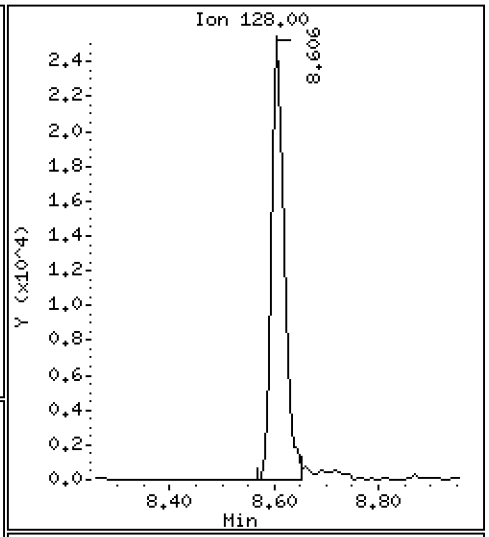
Concentration: 1.733 ug/mL

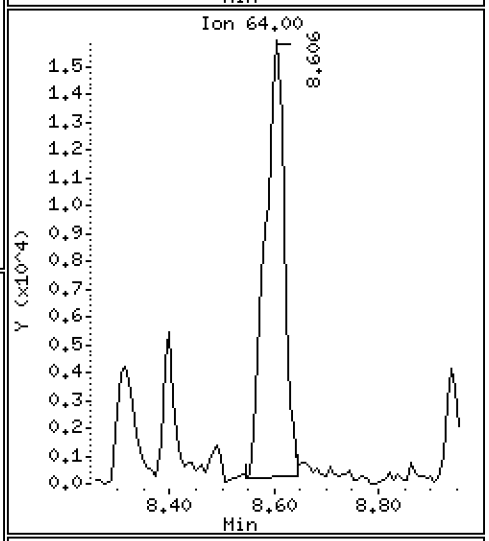


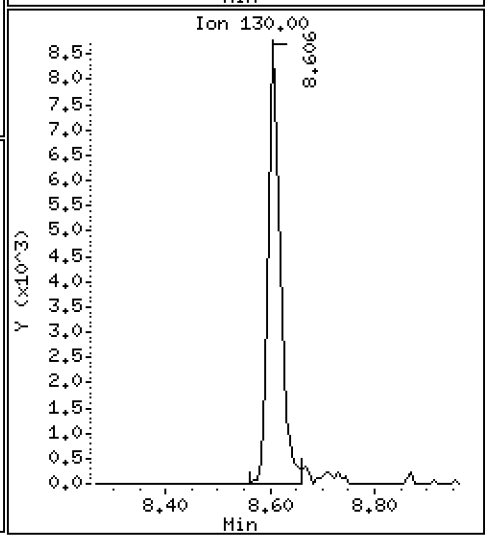












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

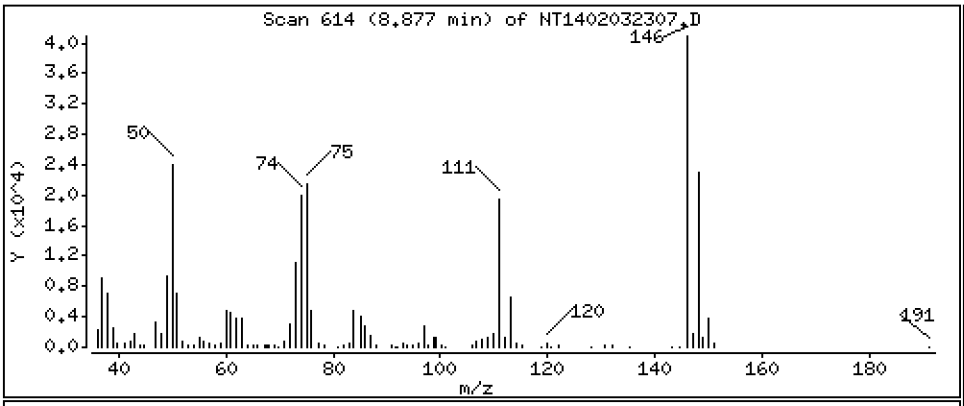
Operator: DSD

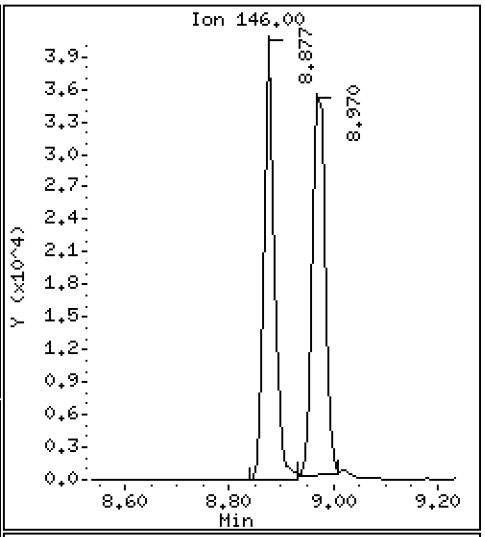
Column phase: ZB-5msi

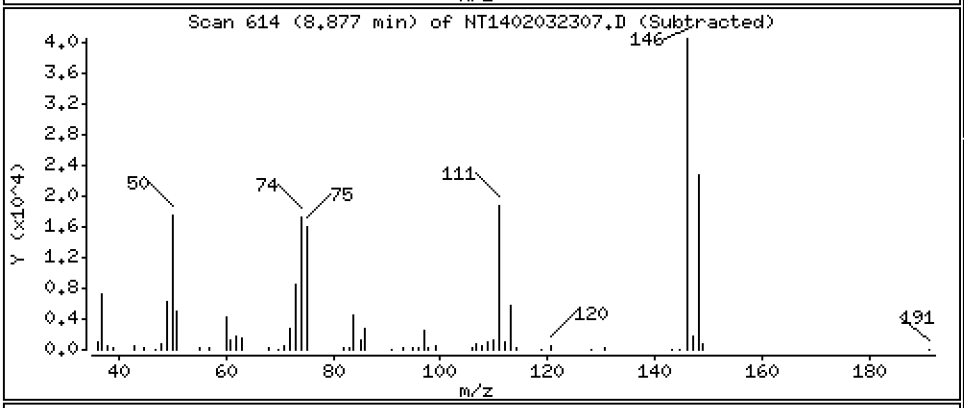
Column diameter: 0.25

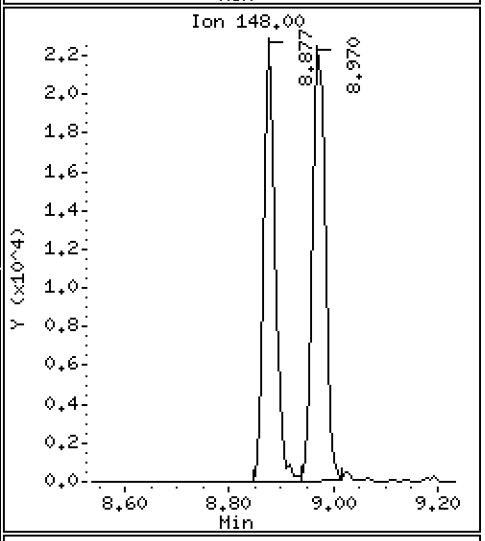
7 1,3-Dichlorobenzene

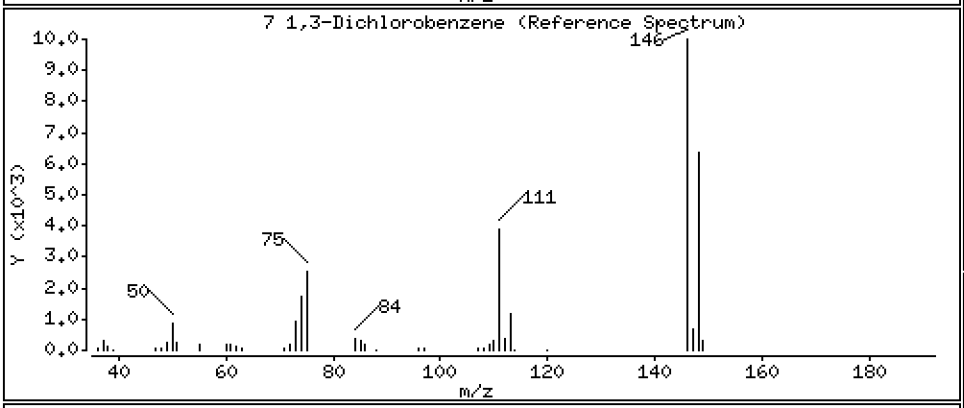
Concentration: 2.190 ug/mL

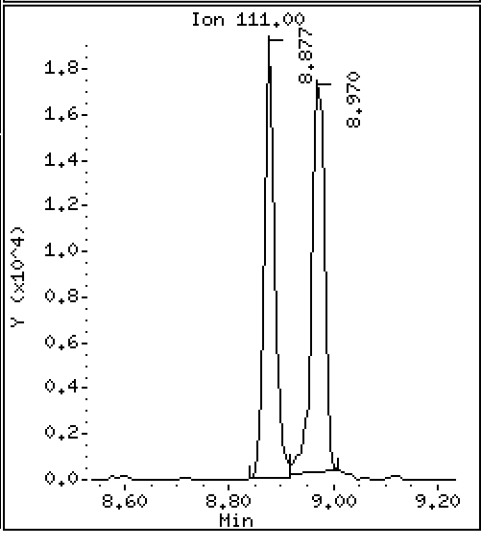


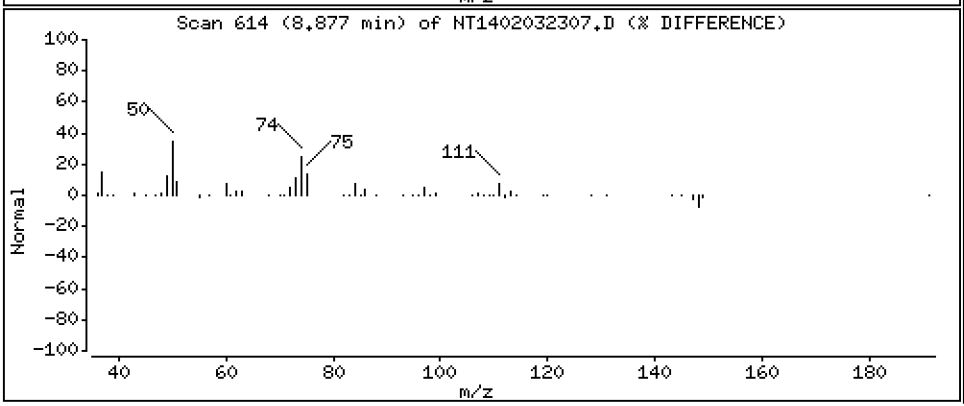












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

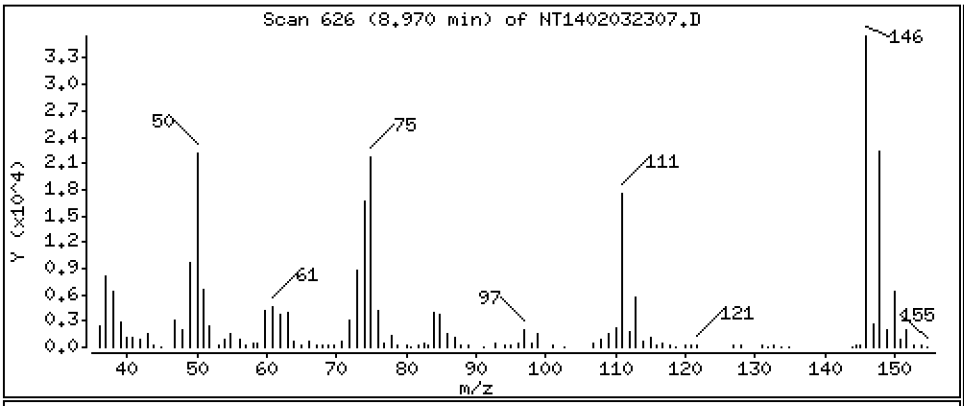
Operator: DSD

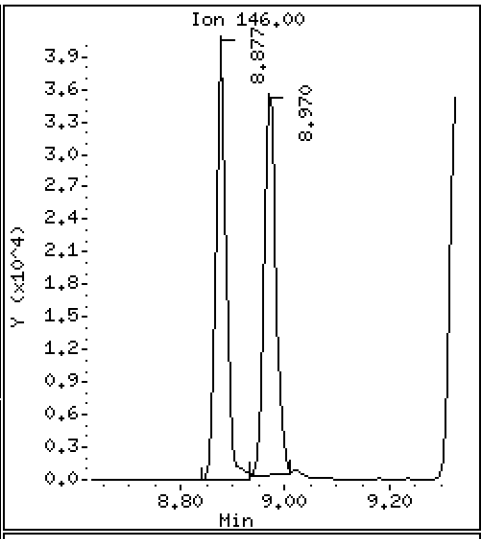
Column phase: ZB-5msi

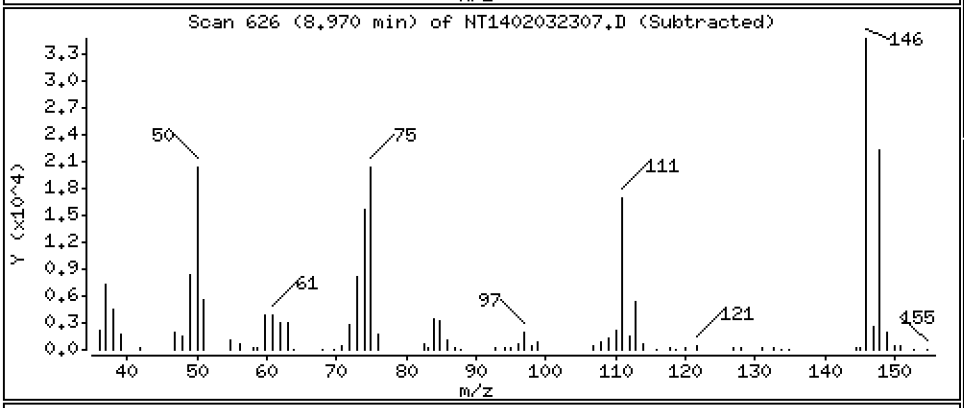
Column diameter: 0.25

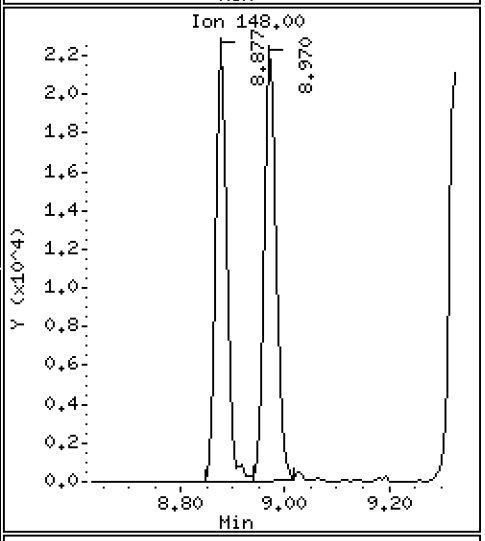
9 1,4-Dichlorobenzene

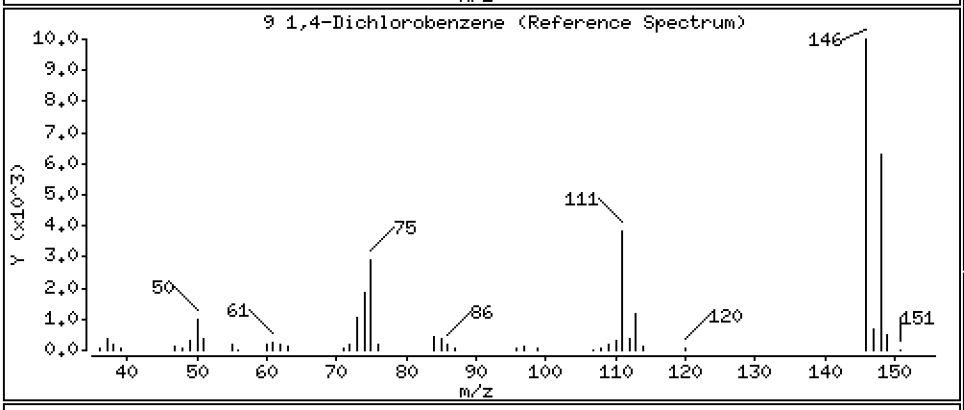
Concentration: 2.139 ug/mL

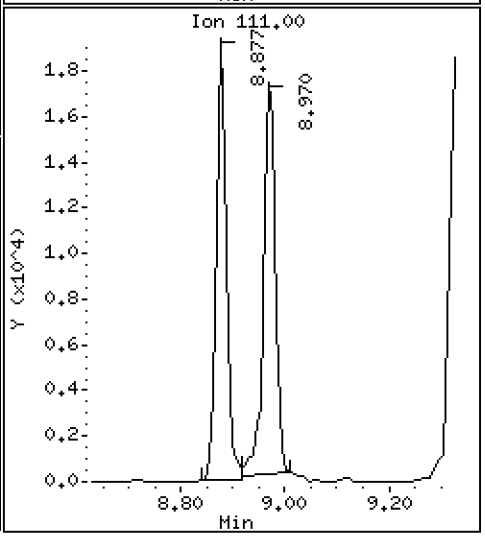


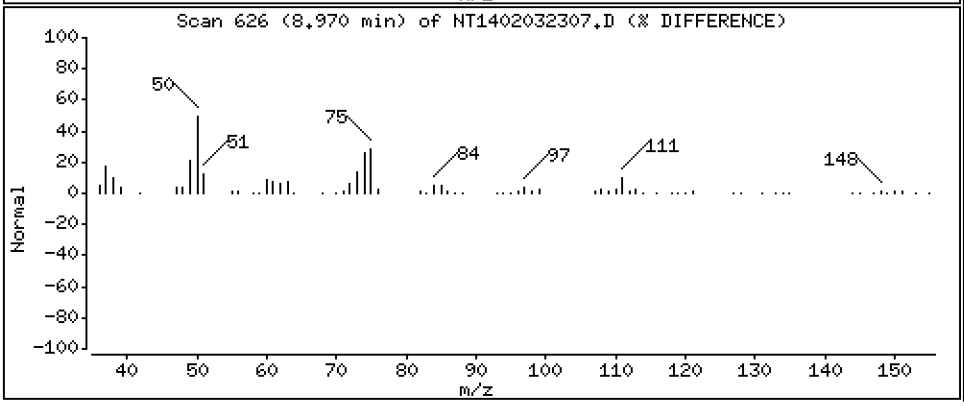












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

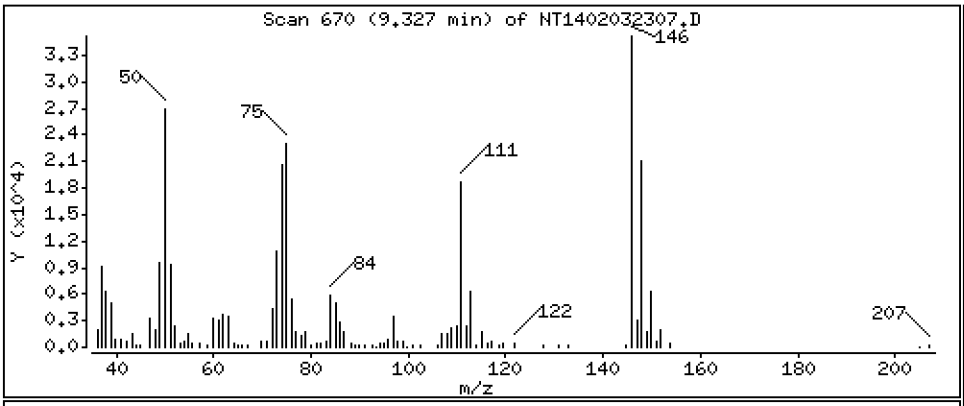
Operator: DSD

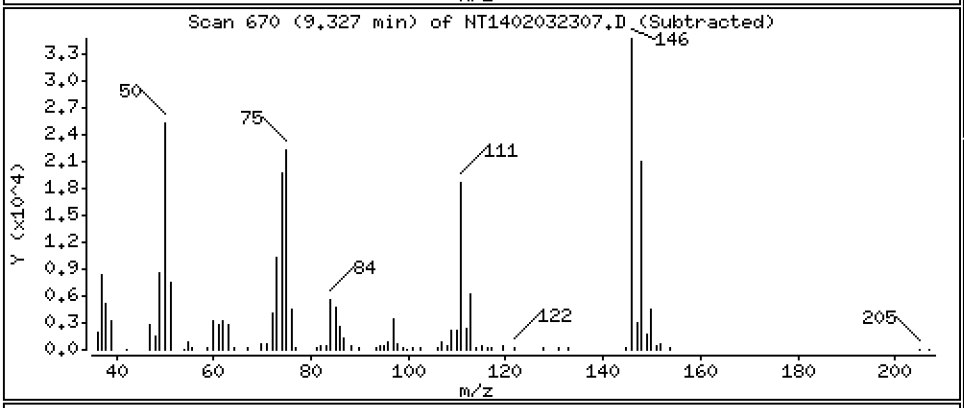
Column phase: ZB-5msi

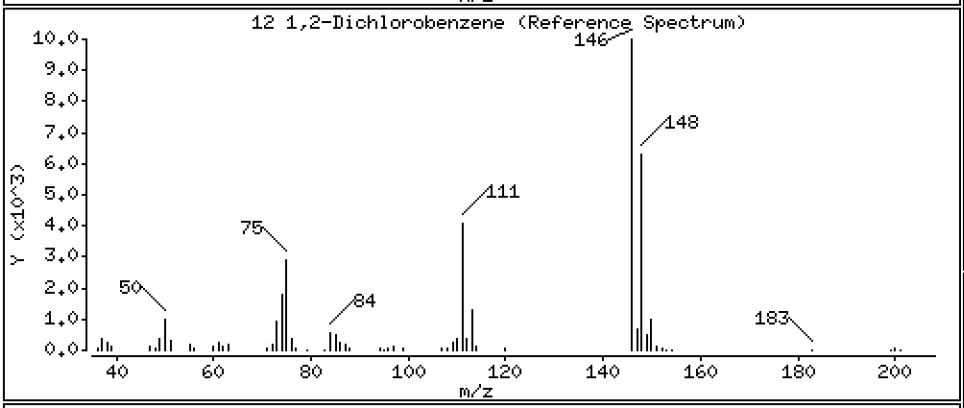
Column diameter: 0.25

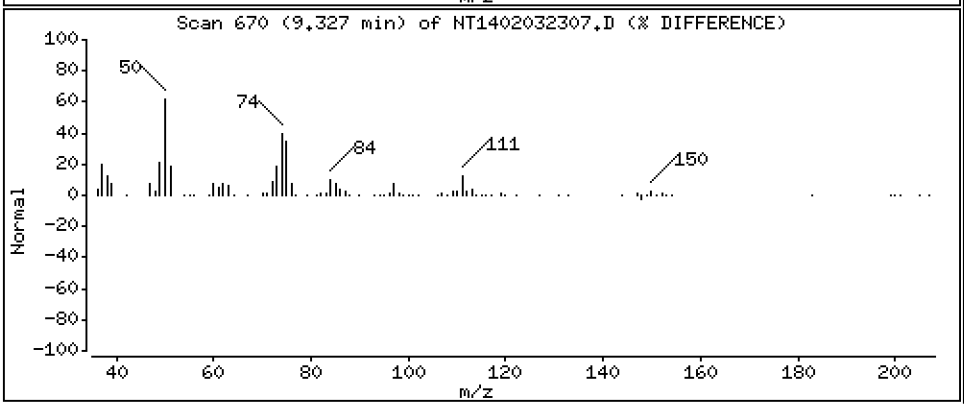
12 1,2-Dichlorobenzene

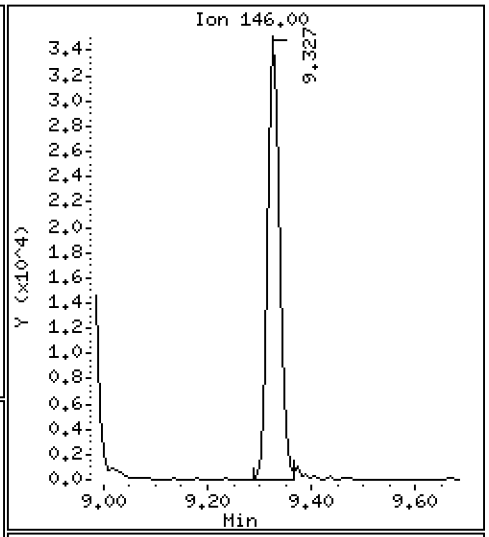
Concentration: 2.118 ug/mL

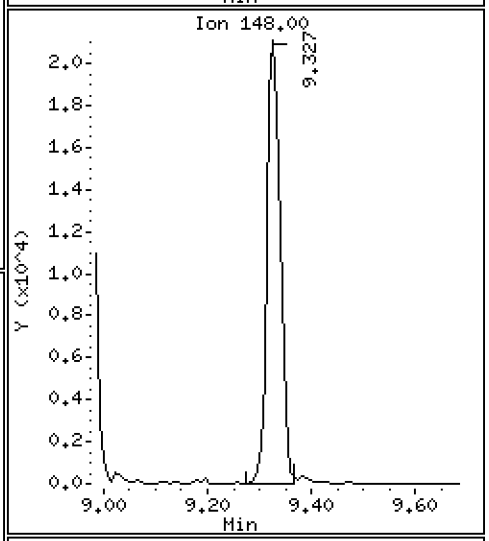


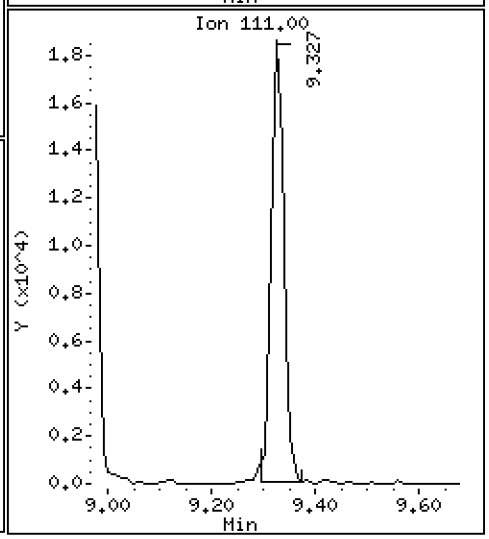












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

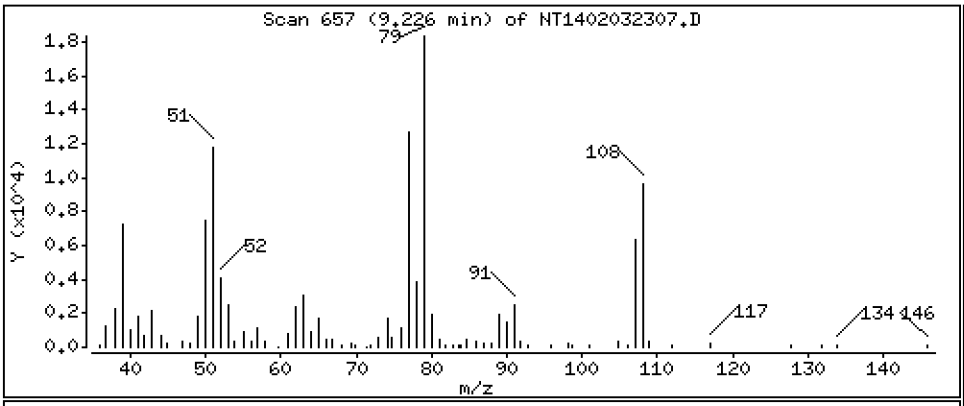
Operator: DSD

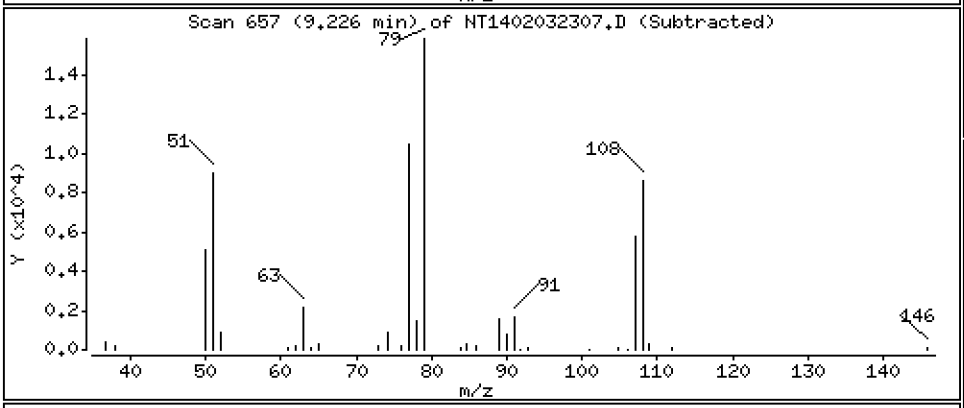
Column phase: ZB-5msi

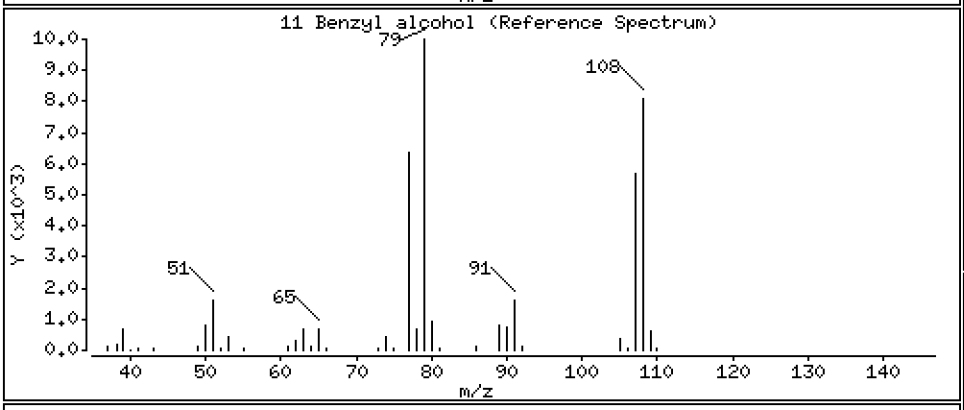
Column diameter: 0.25

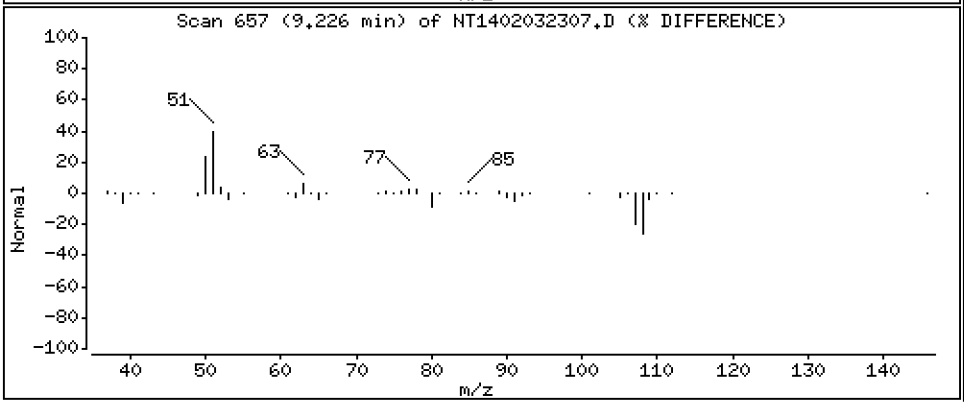
11 Benzyl alcohol

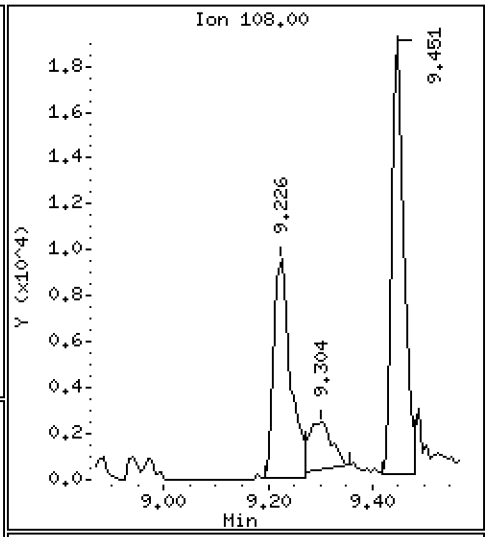
Concentration: 1.492 ug/mL

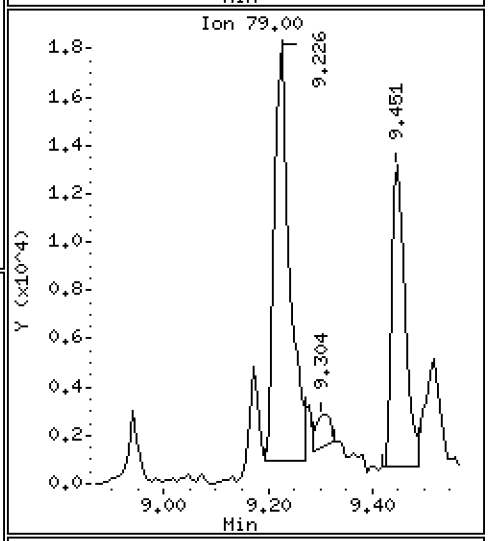


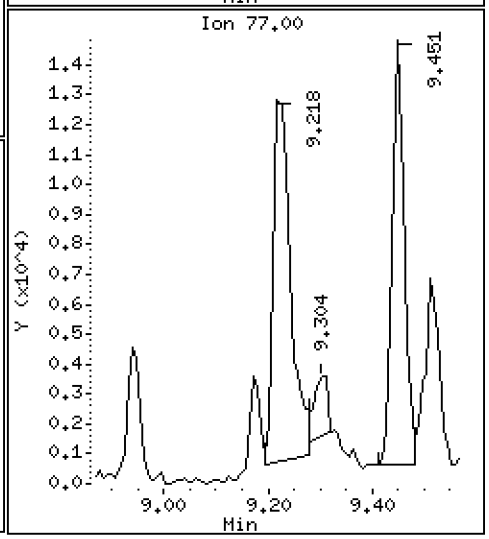












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

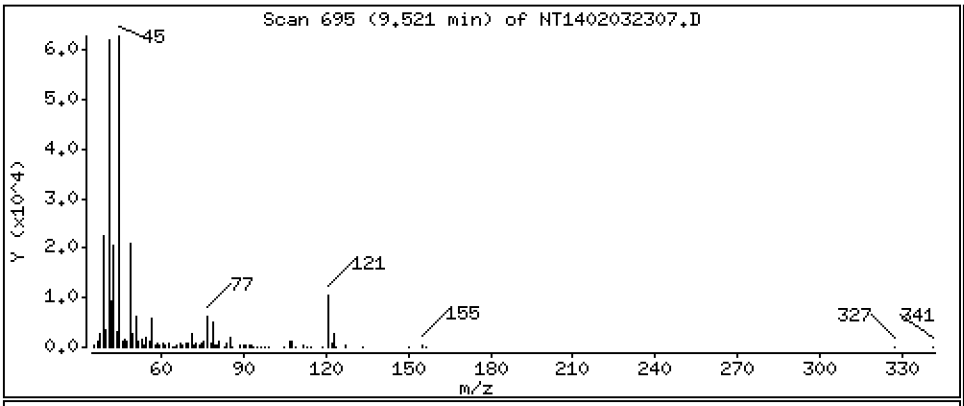
Operator: DSD

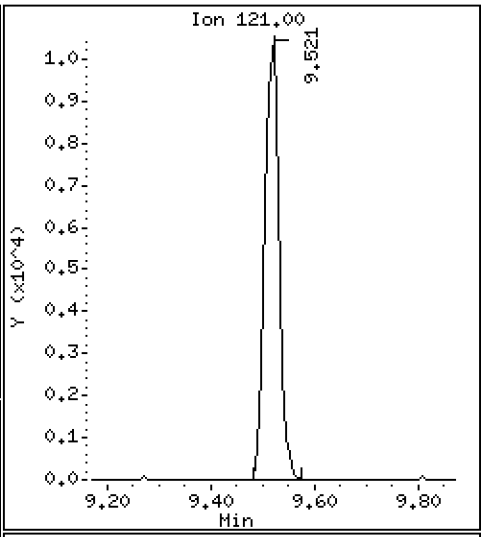
Column phase: ZB-5msi

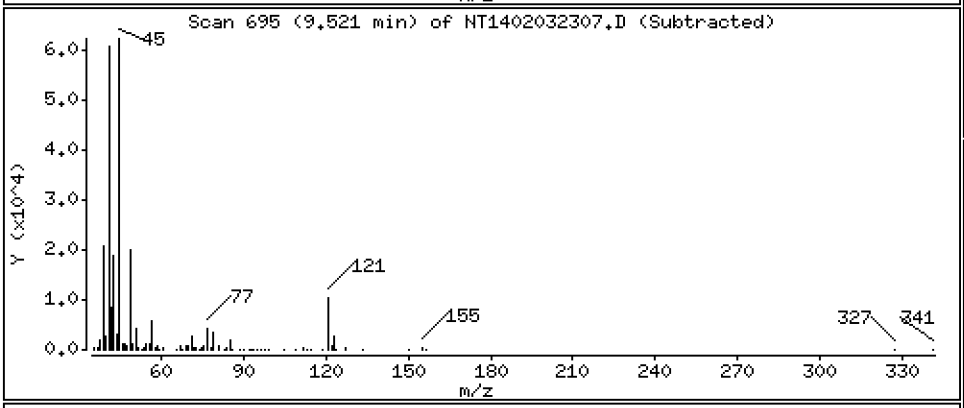
Column diameter: 0.25

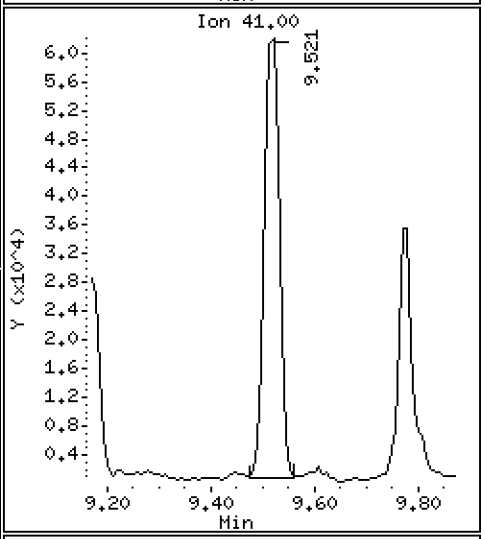
14 2,2'-oxybis(1-Chloropropane)

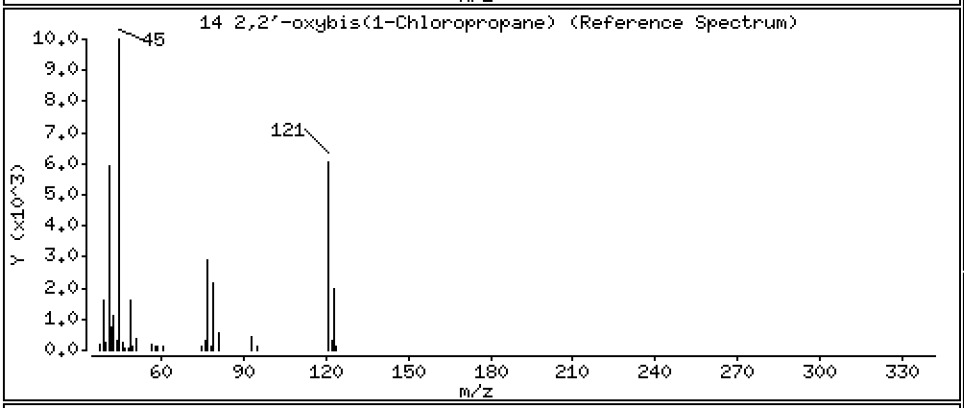
Concentration: 2.613 ug/mL

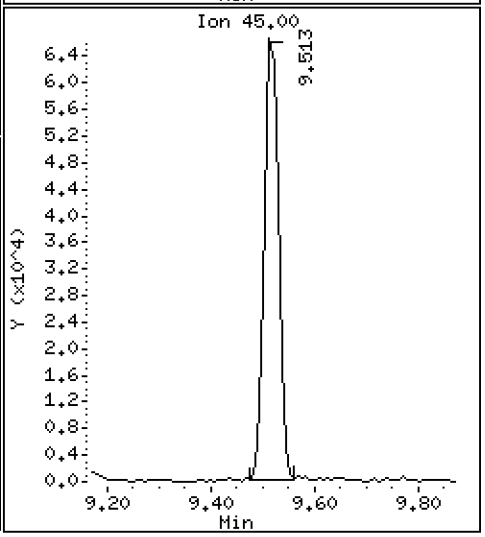


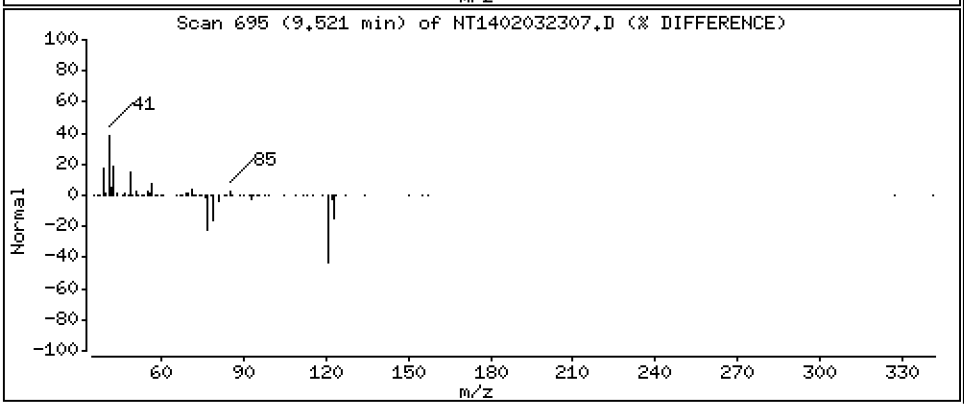












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

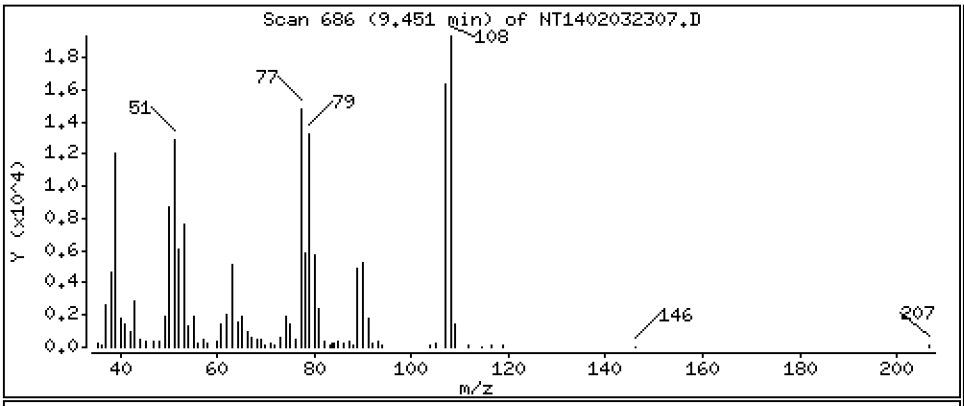
Operator: DSD

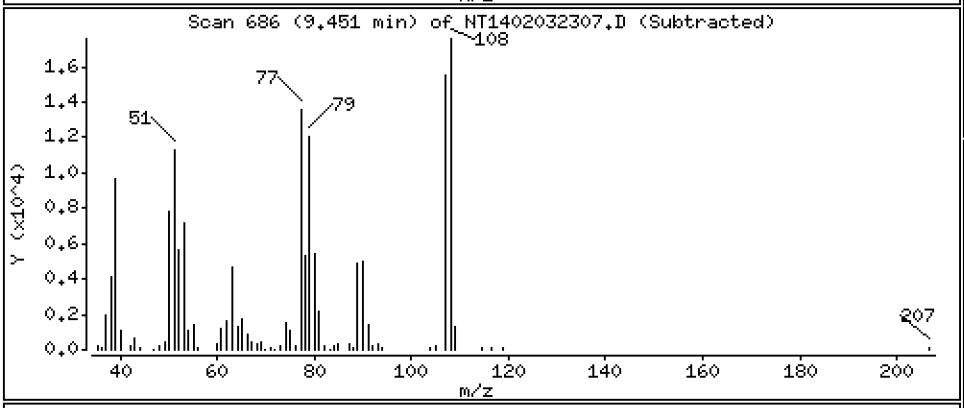
Column phase: ZB-5msi

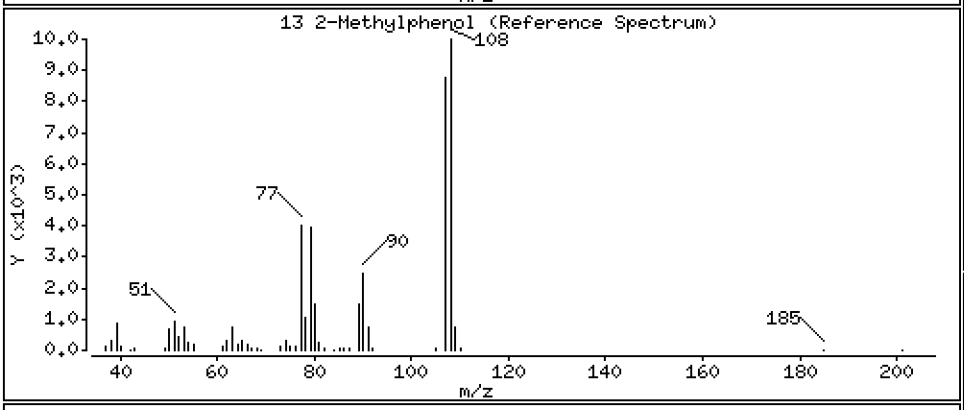
Column diameter: 0.25

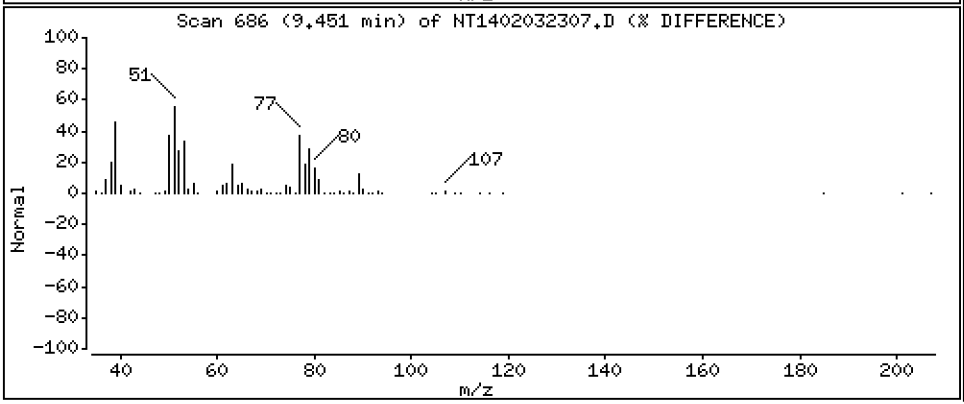
13 2-Methylphenol

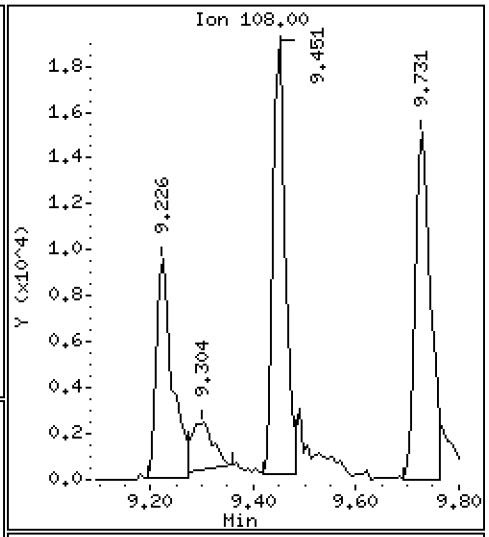
Concentration: 1.353 ug/mL

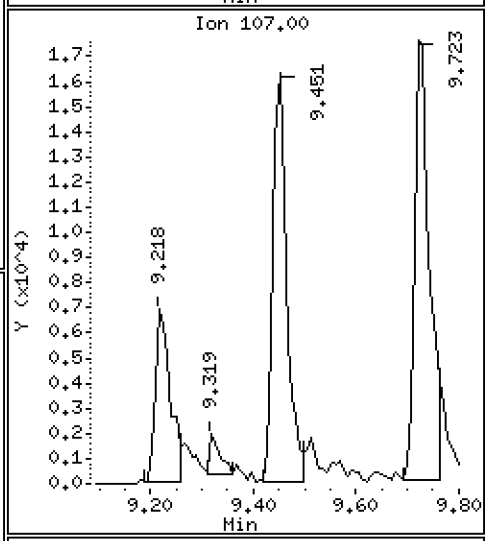


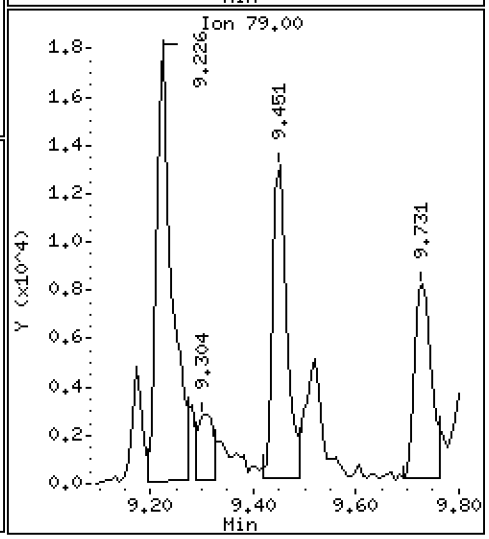












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

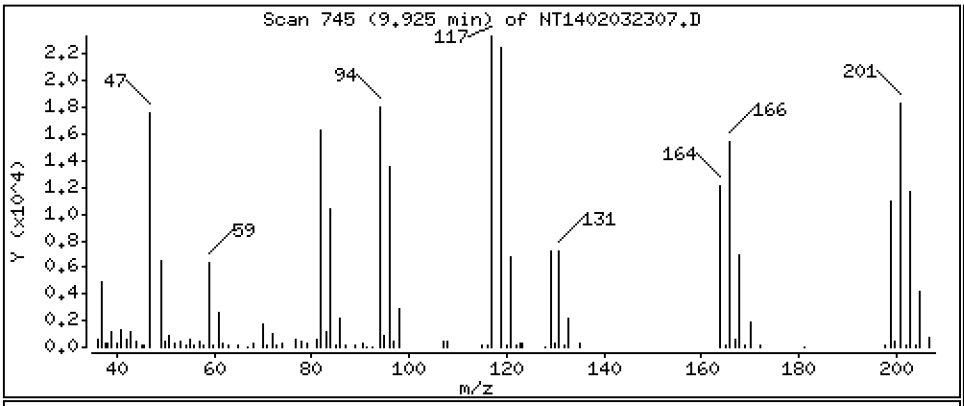
Operator: DSD

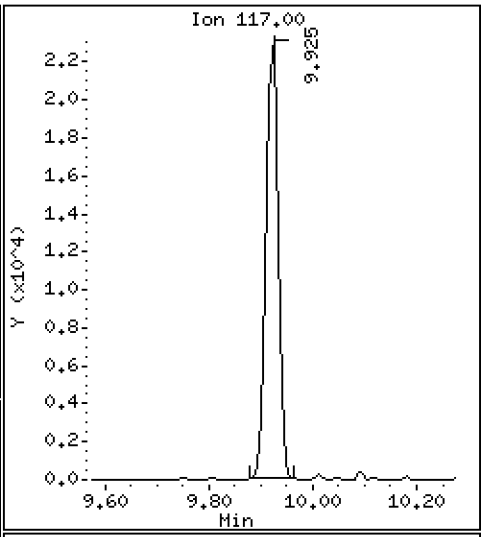
Column phase: ZB-5msi

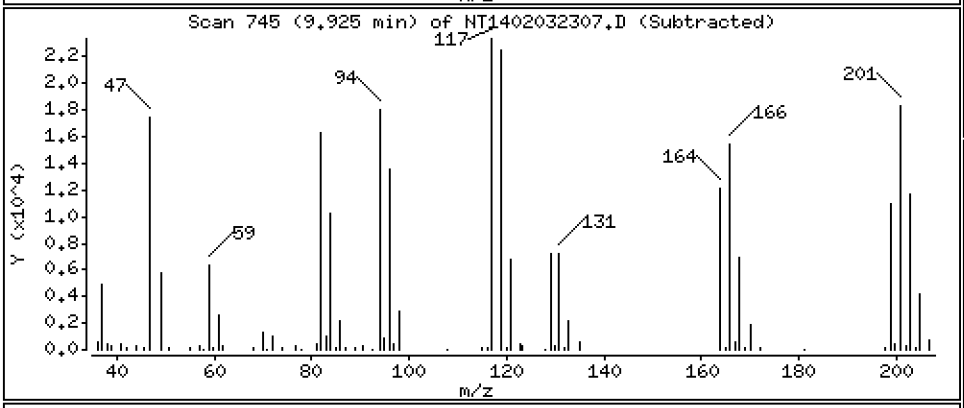
Column diameter: 0.25

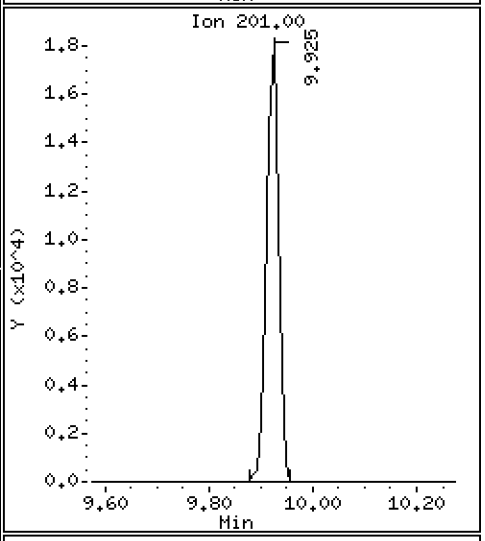
17 Hexachloroethane

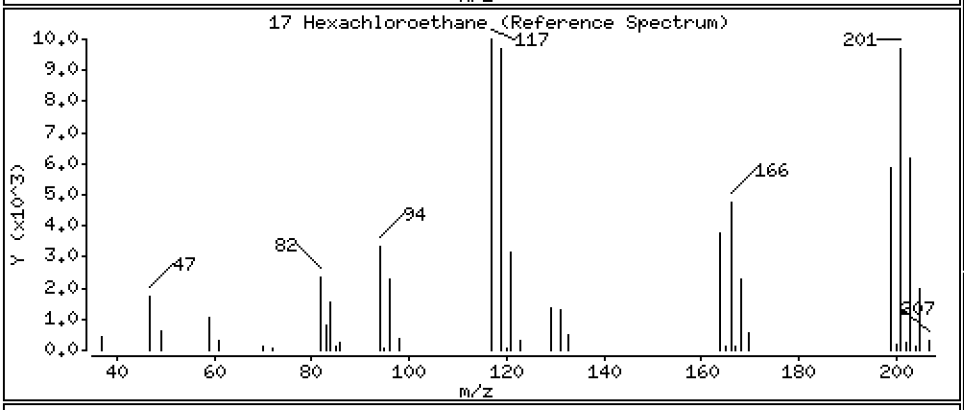
Concentration: 2.210 ug/mL

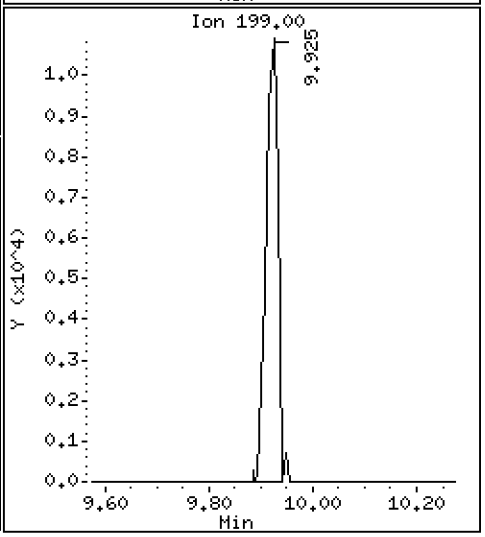


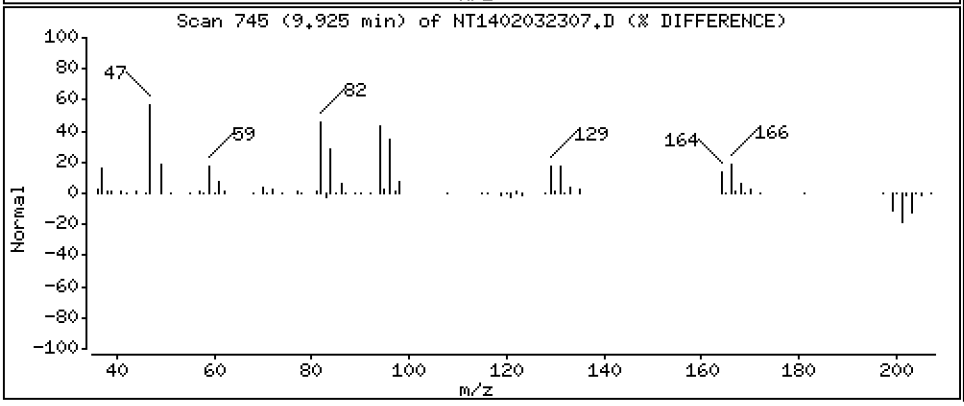












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

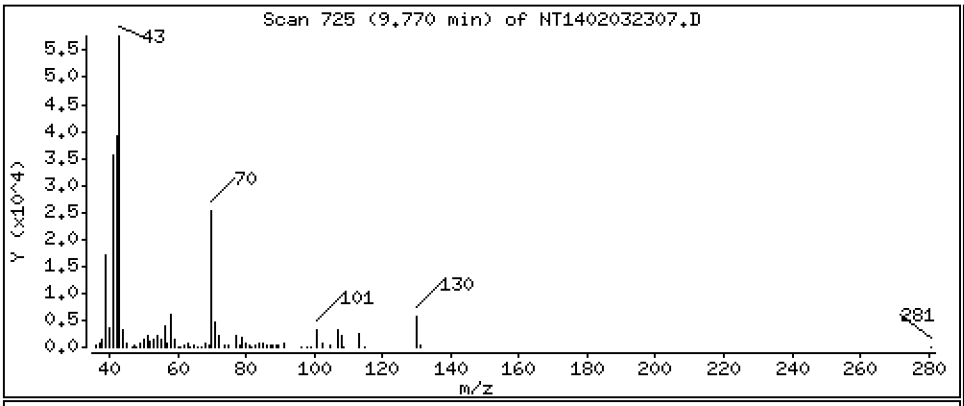
Operator: DSD

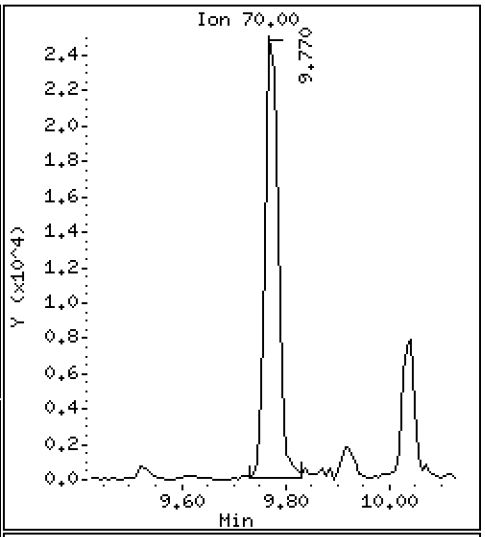
Column phase: ZB-5msi

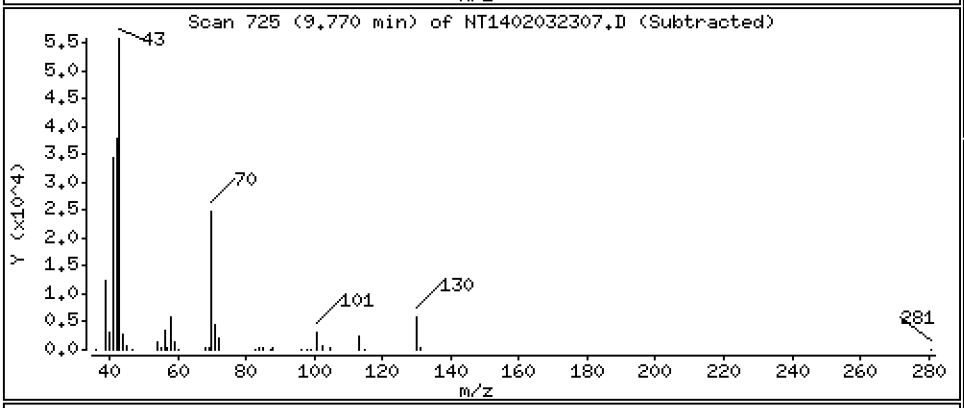
Column diameter: 0.25

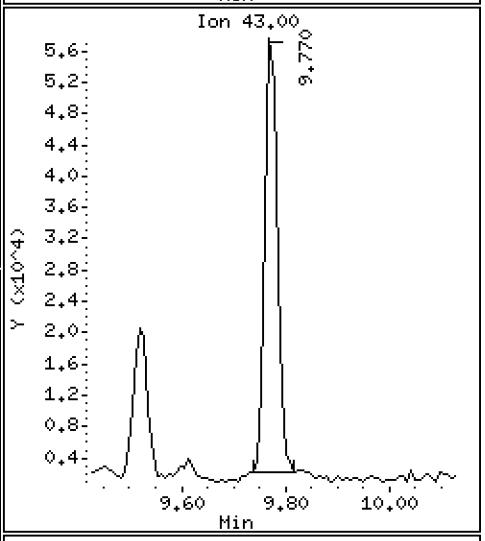
16 N-Nitroso-di-n-propylamine

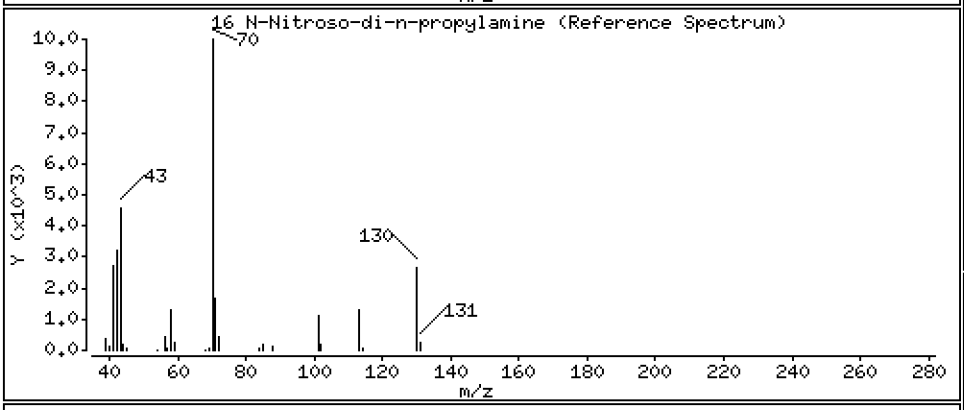
Concentration: 2.198 ug/mL

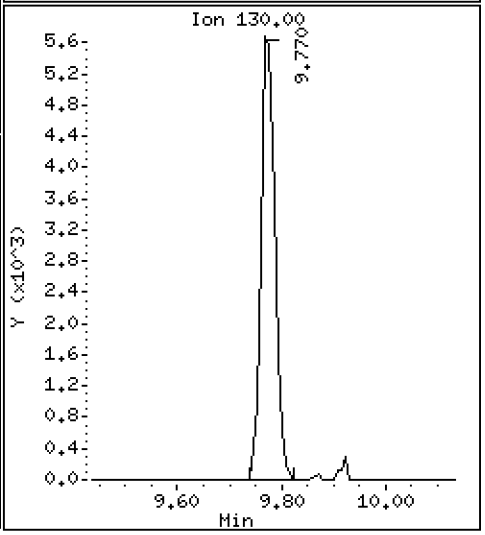


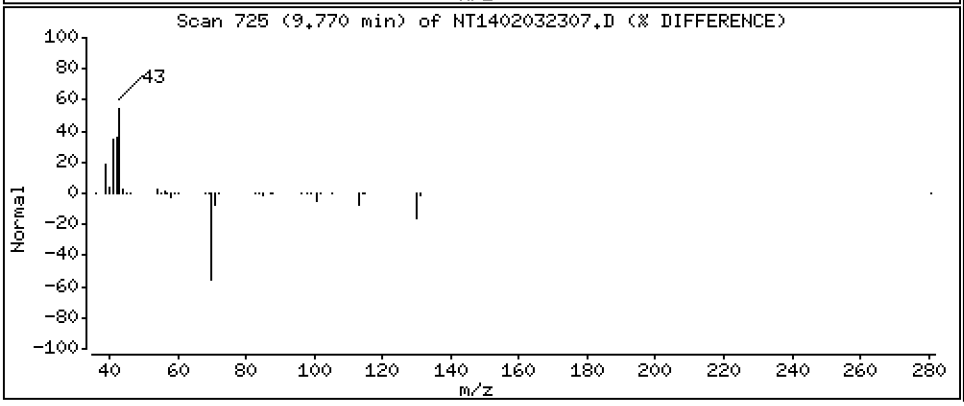












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

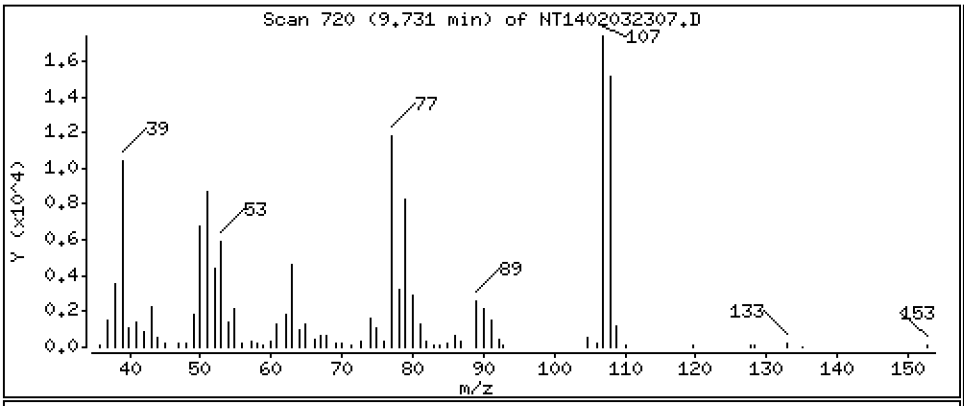
Operator: DSD

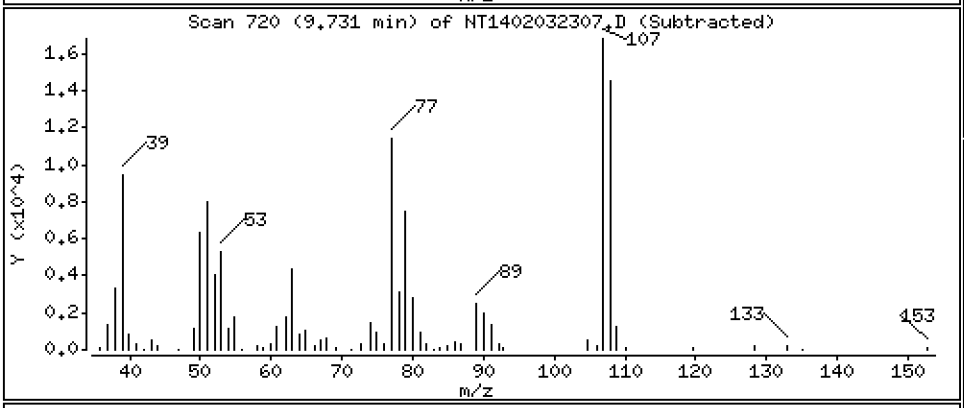
Column phase: ZB-5msi

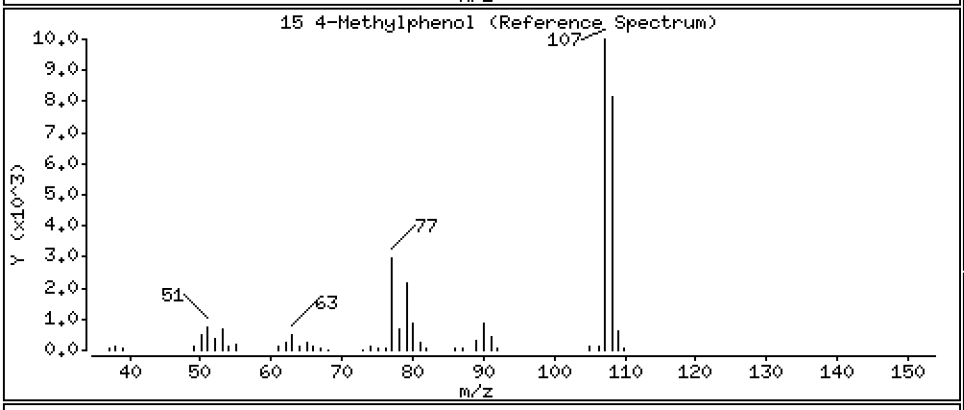
Column diameter: 0.25

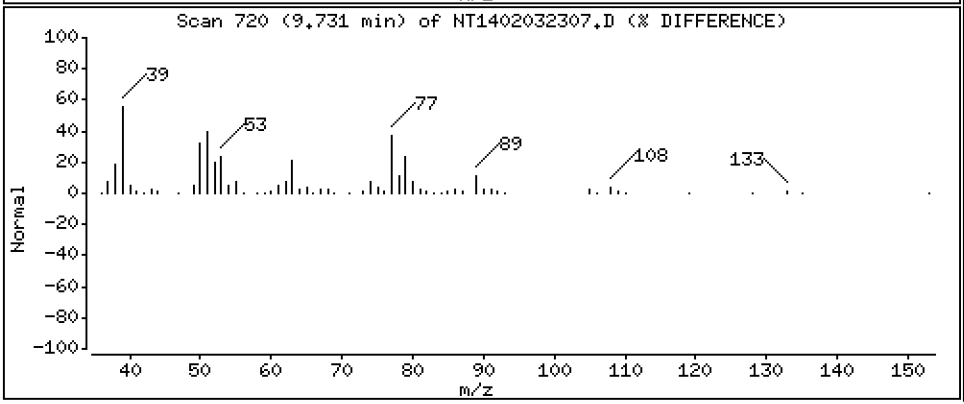
15 4-Methylphenol

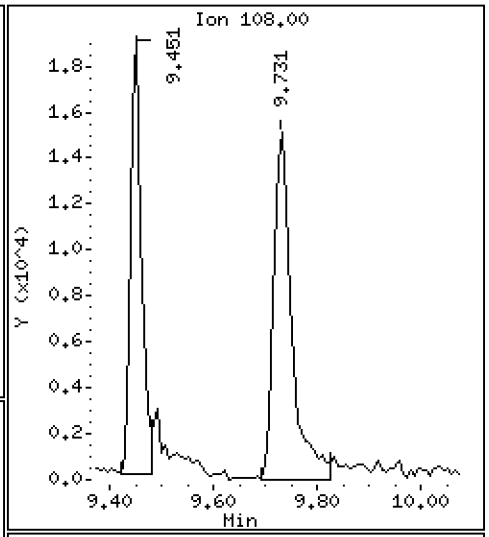
Concentration: 1.479 ug/mL

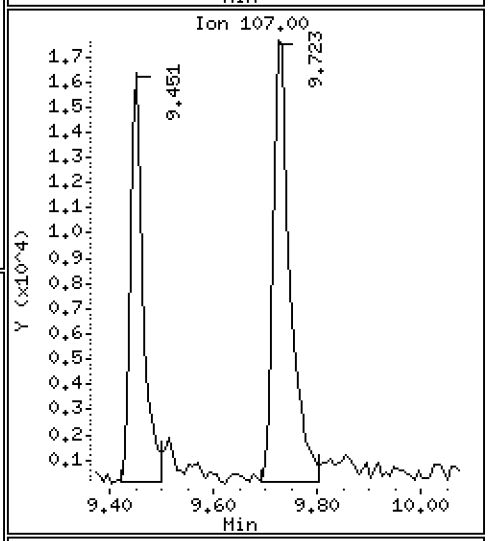


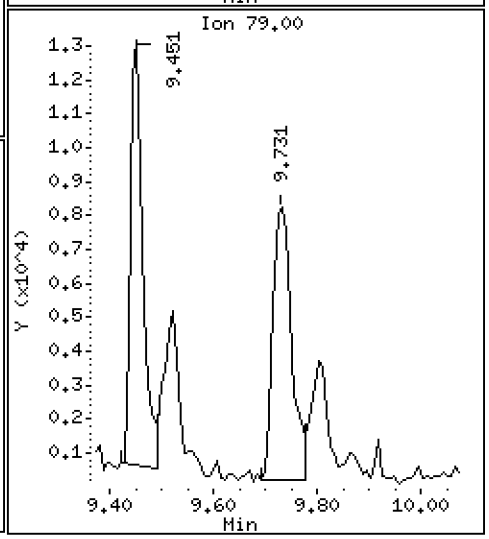












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

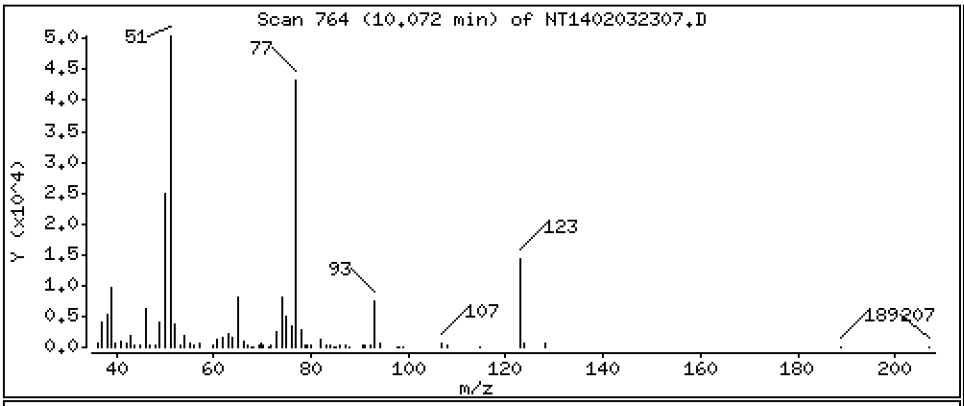
Operator: DSD

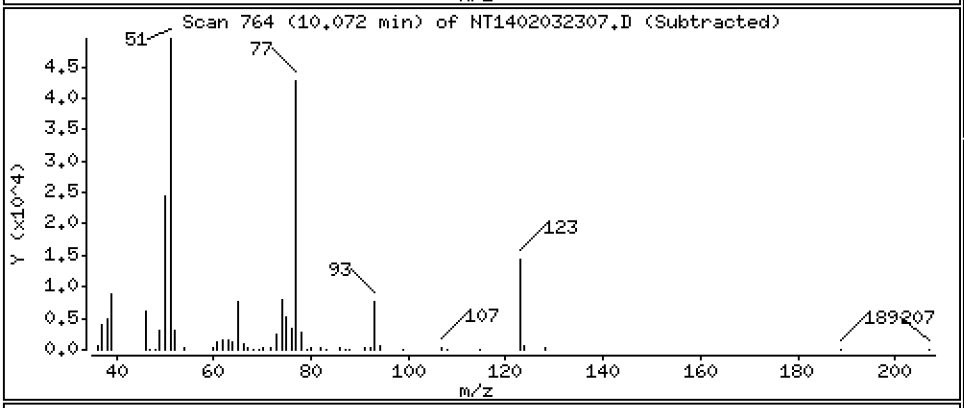
Column phase: ZB-5msi

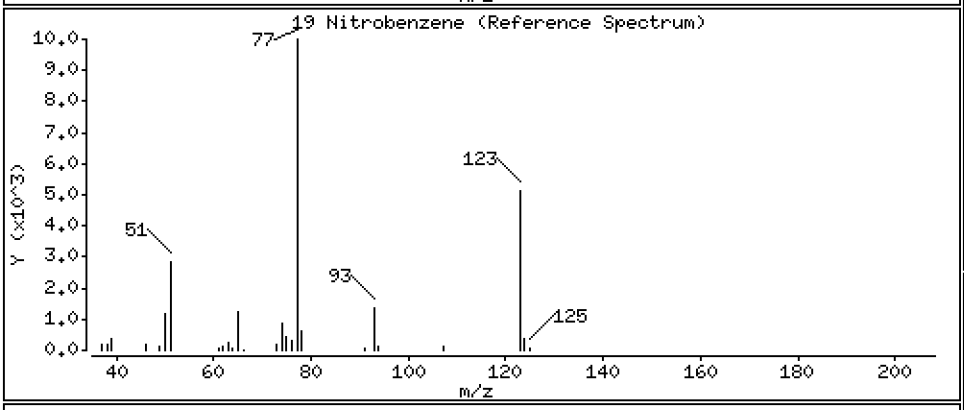
Column diameter: 0.25

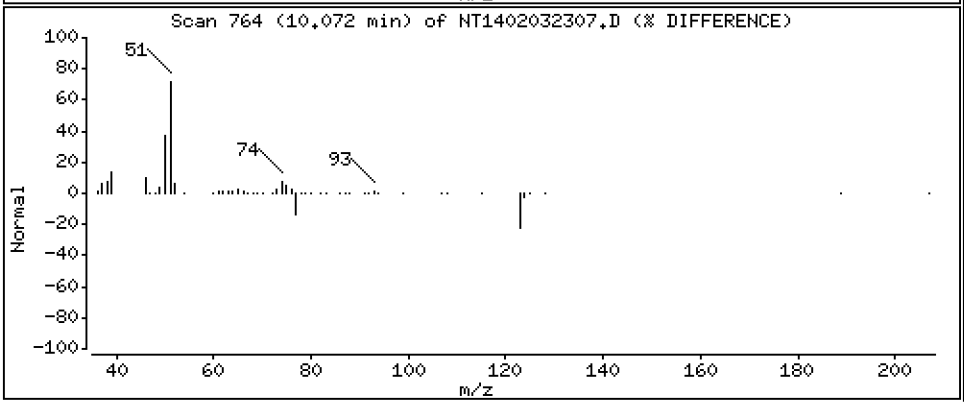
19 Nitrobenzene

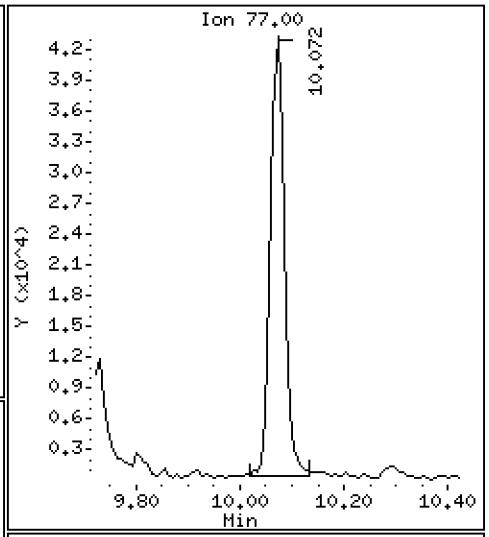
Concentration: 2.118 ug/mL

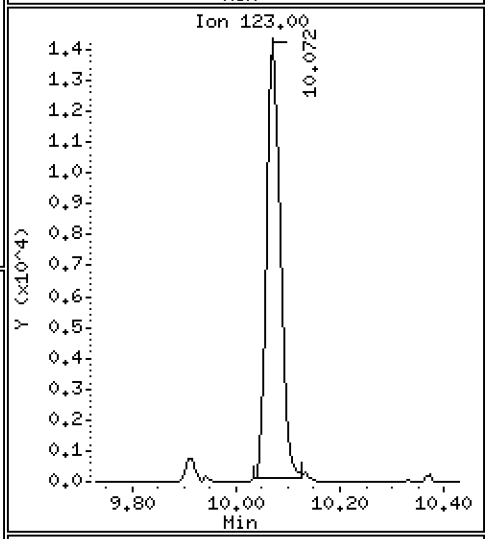


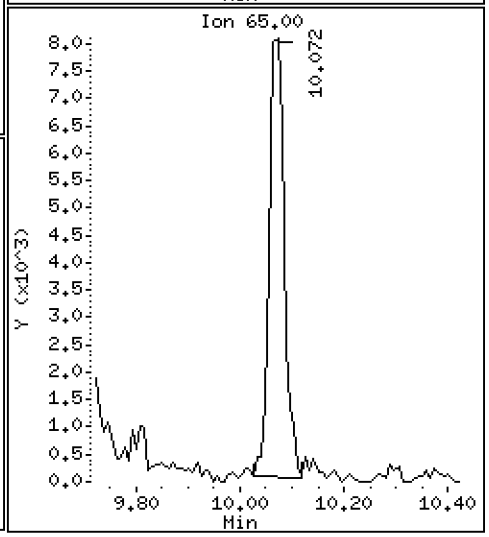












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

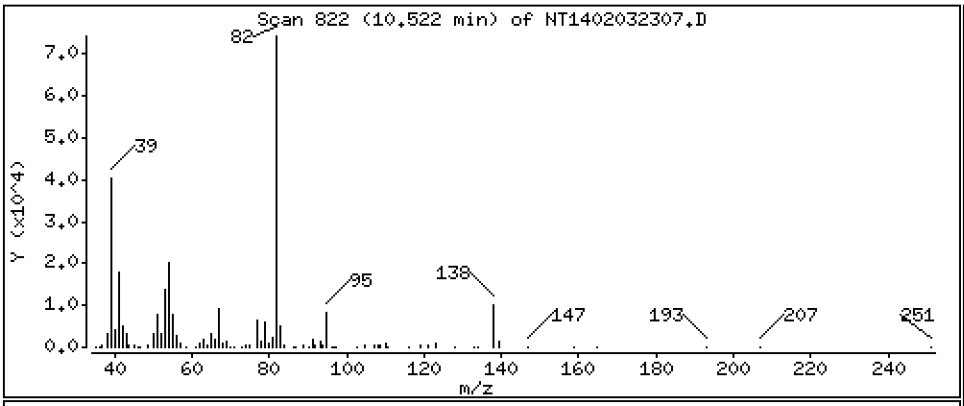
Operator: DSD

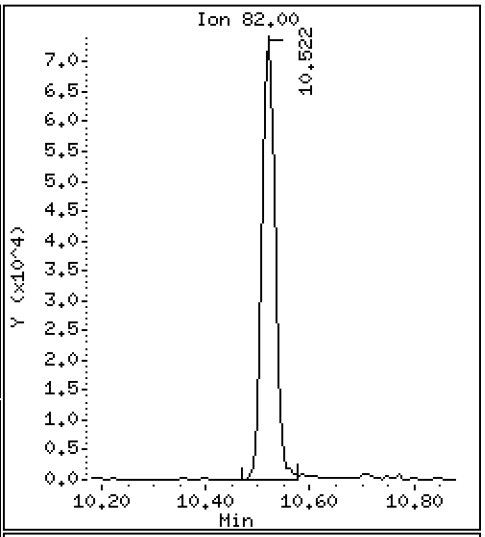
Column phase: ZB-5msi

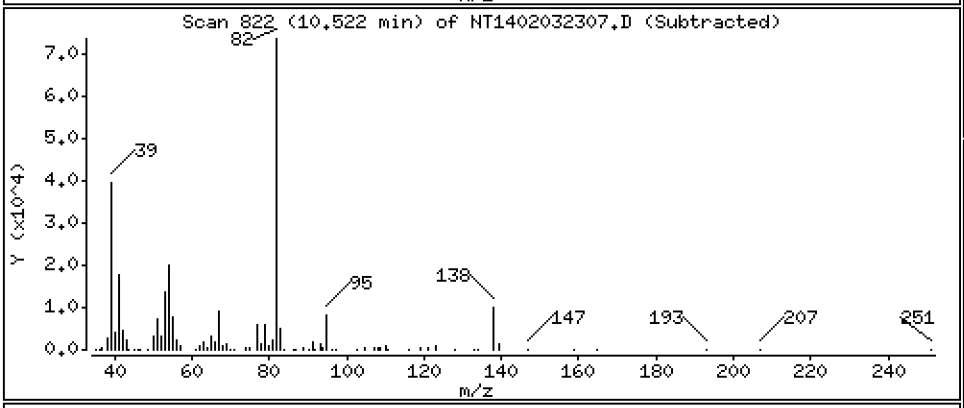
Column diameter: 0.25

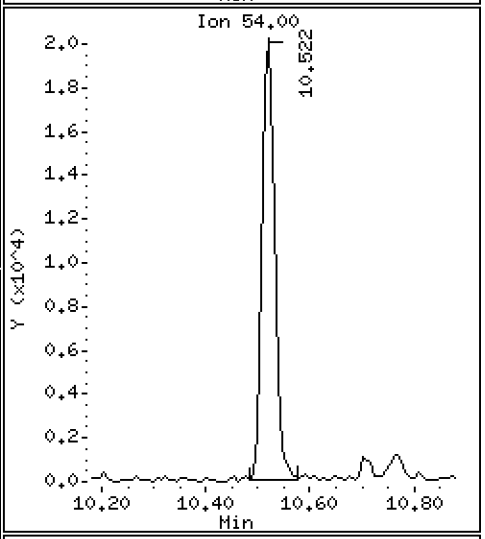
20 Isophorone

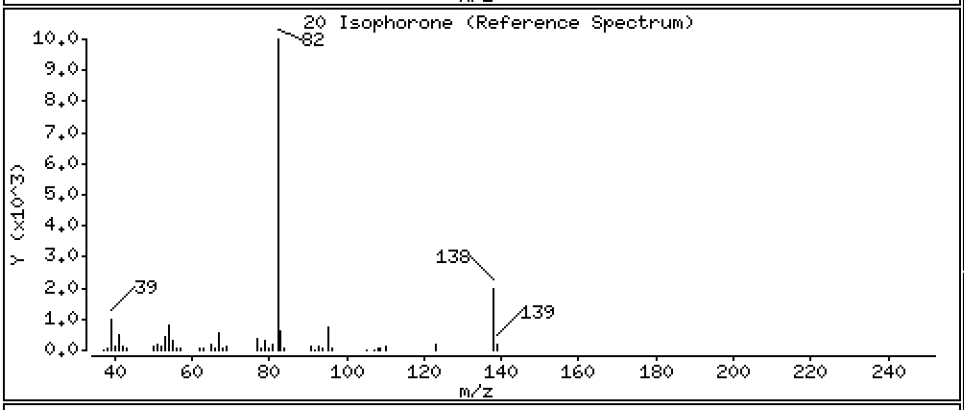
Concentration: 3.020 ug/mL

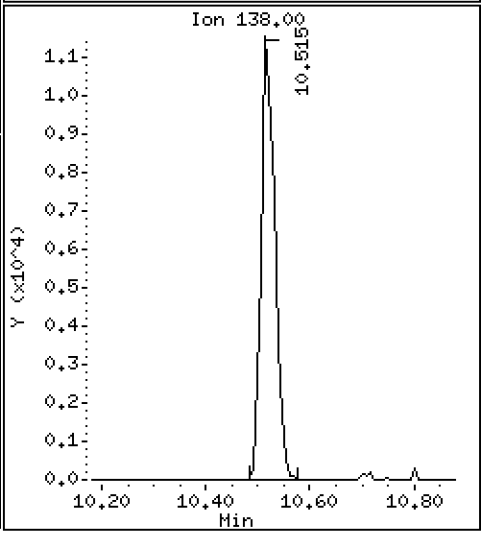


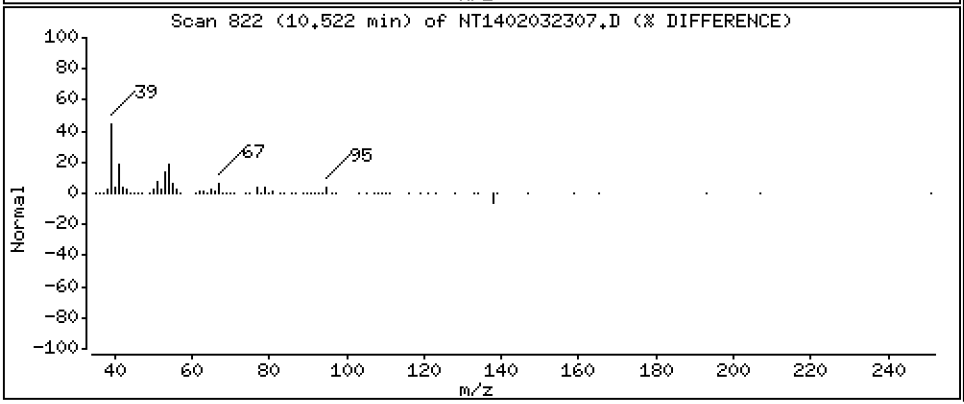












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

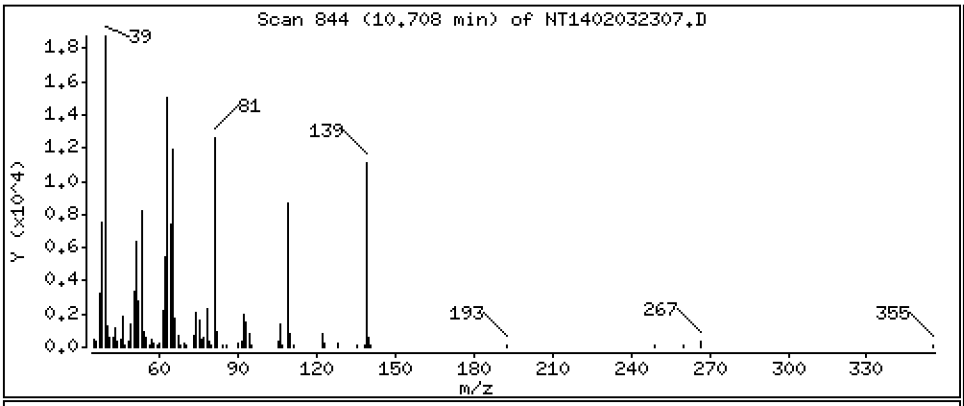
Operator: DSD

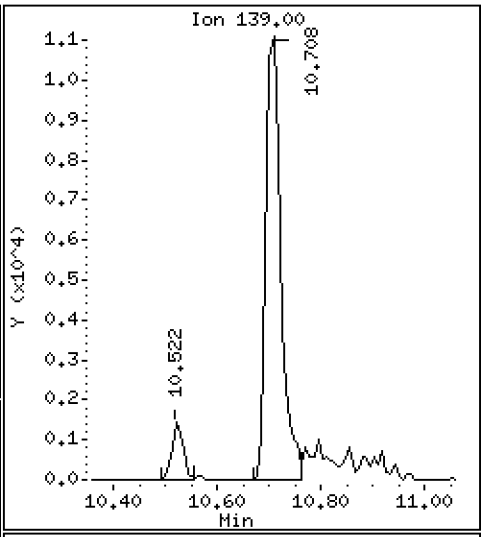
Column phase: ZB-5msi

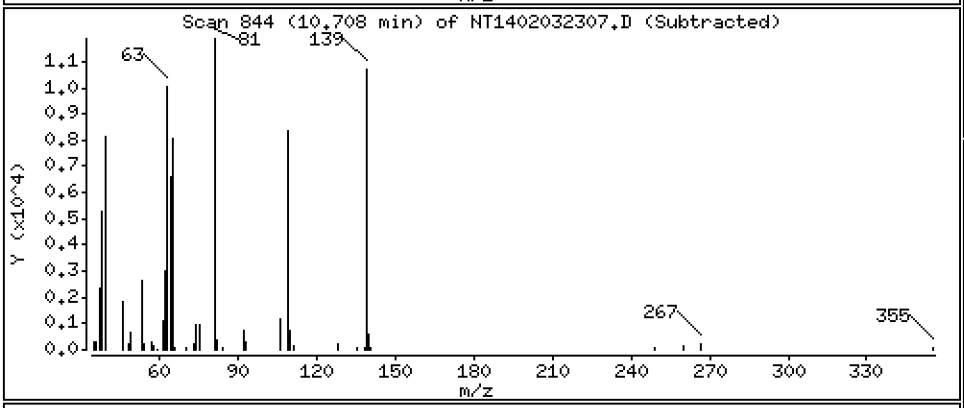
Column diameter: 0.25

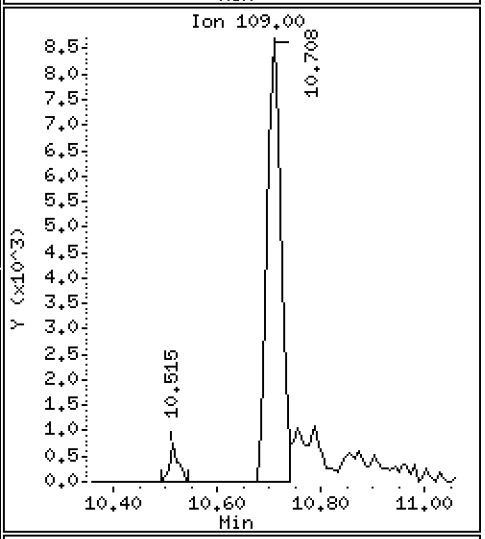
21 2-Nitrophenol

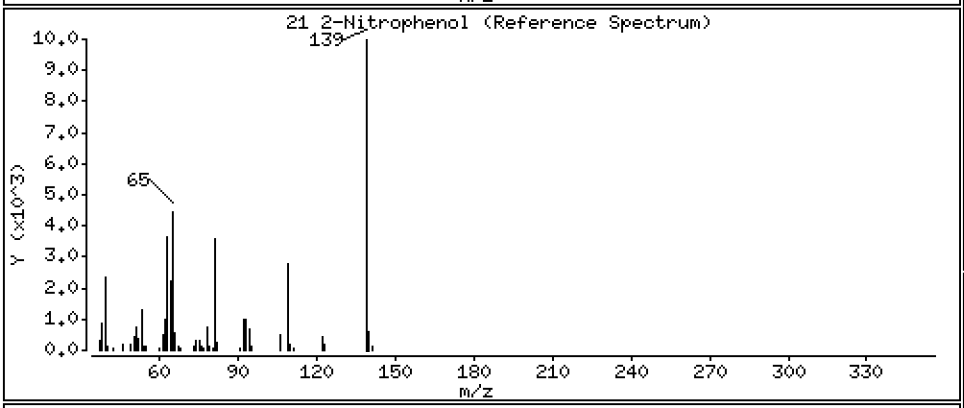
Concentration: 1.554 ug/mL

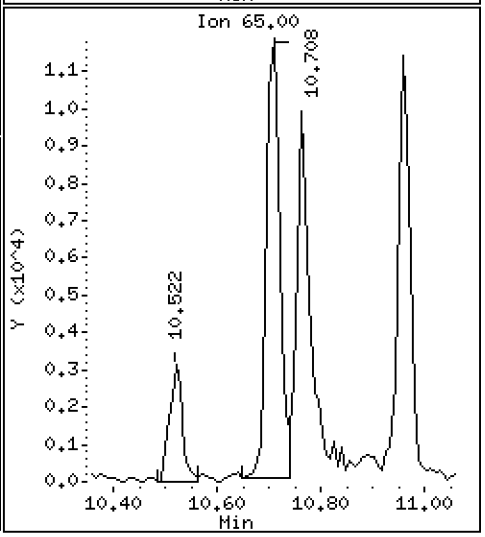


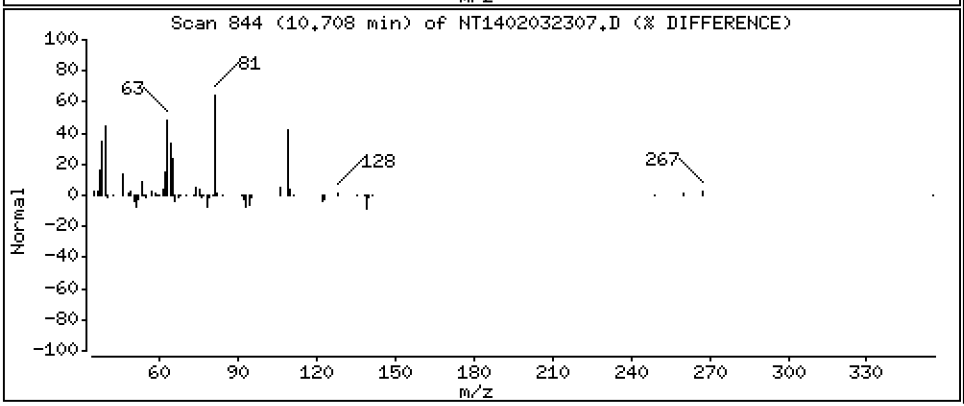












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

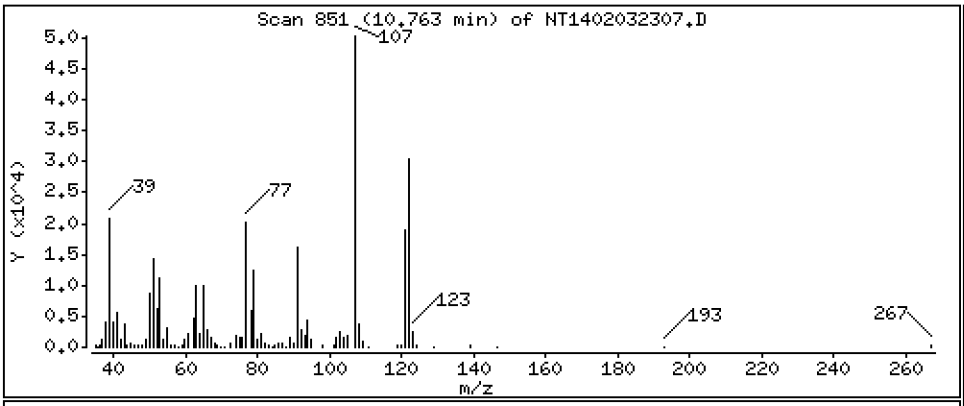
Operator: DSD

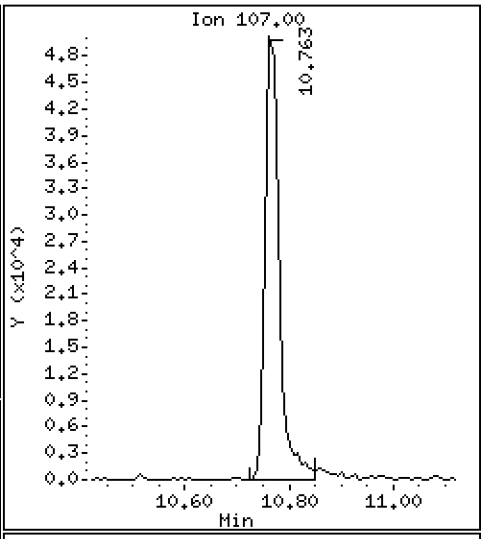
Column phase: ZB-5msi

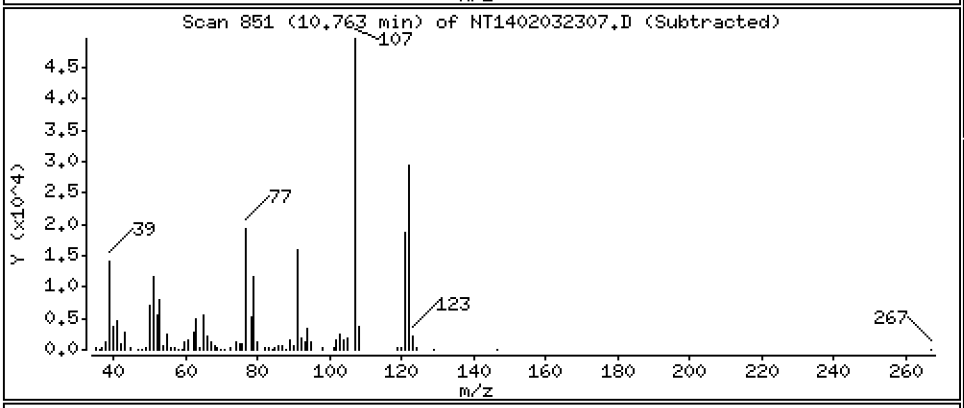
Column diameter: 0.25

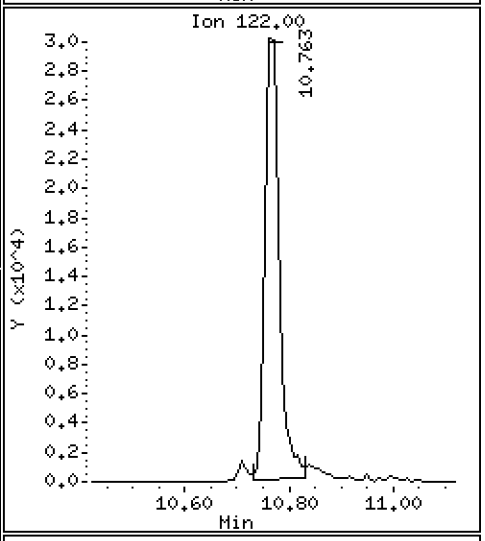
22 2,4-Dimethylphenol

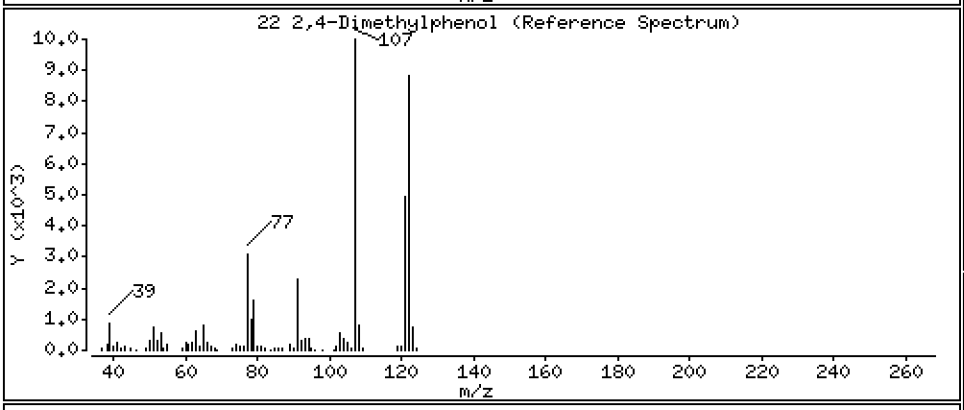
Concentration: 2.467 ug/mL

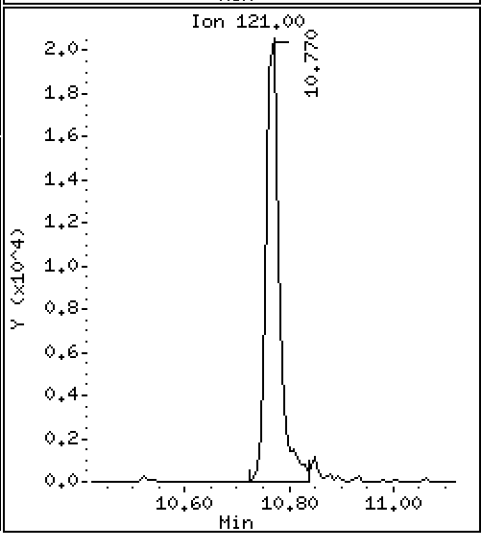


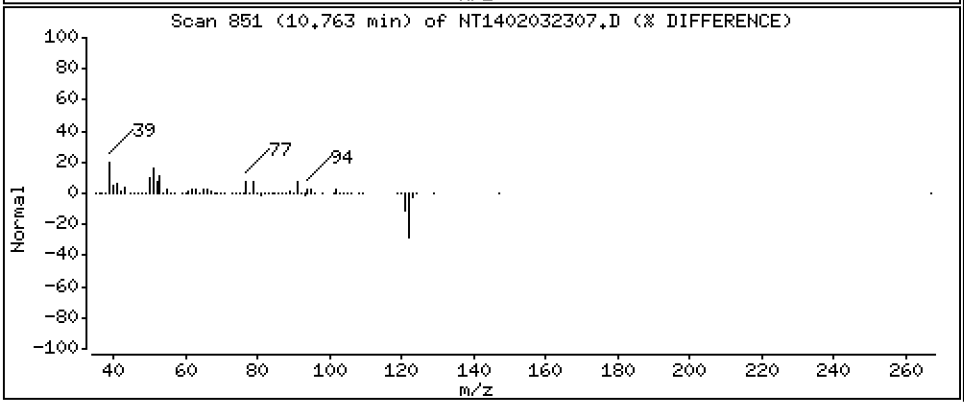












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

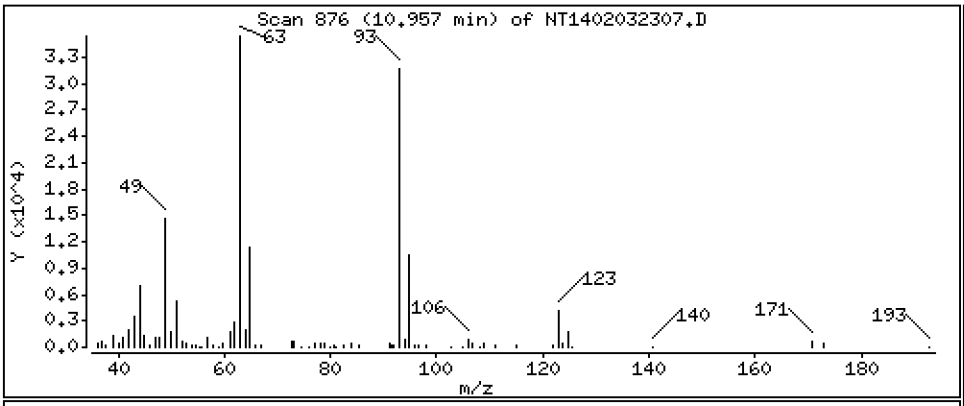
Operator: DSD

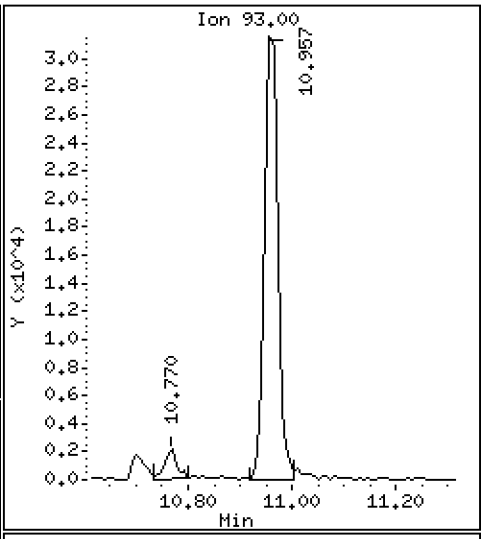
Column phase: ZB-5msi

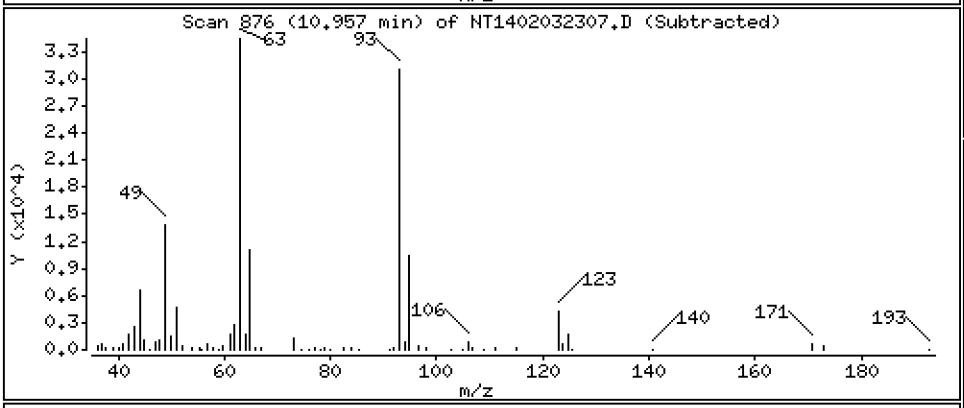
Column diameter: 0.25

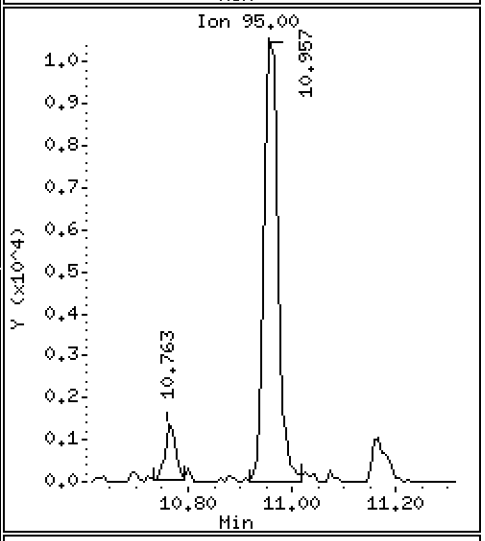
23 Bis(2-Chloroethoxy)methane

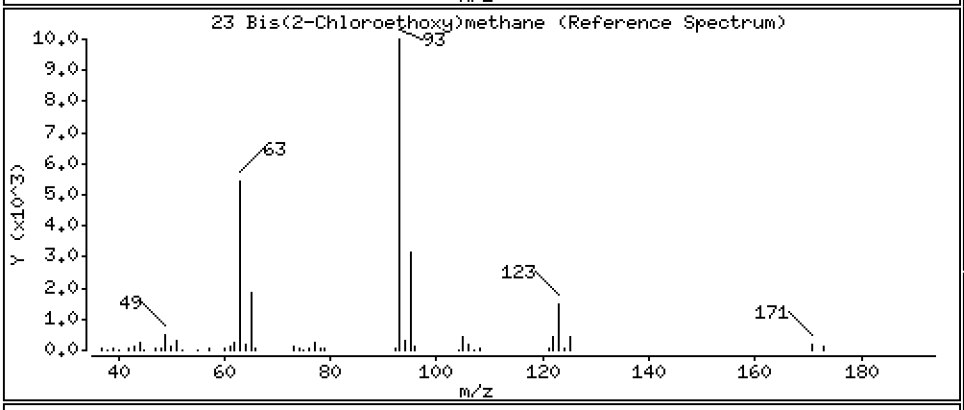
Concentration: 2.590 ug/mL

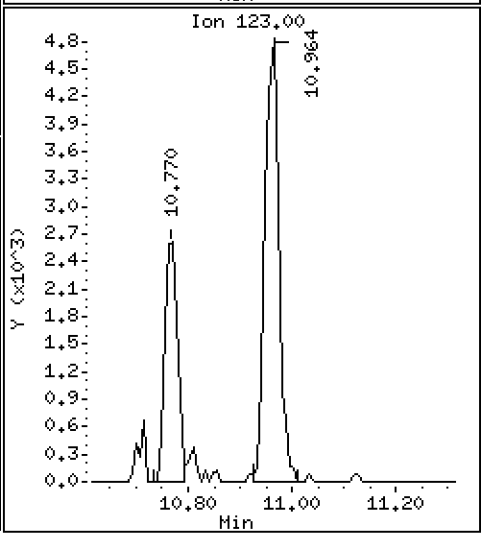


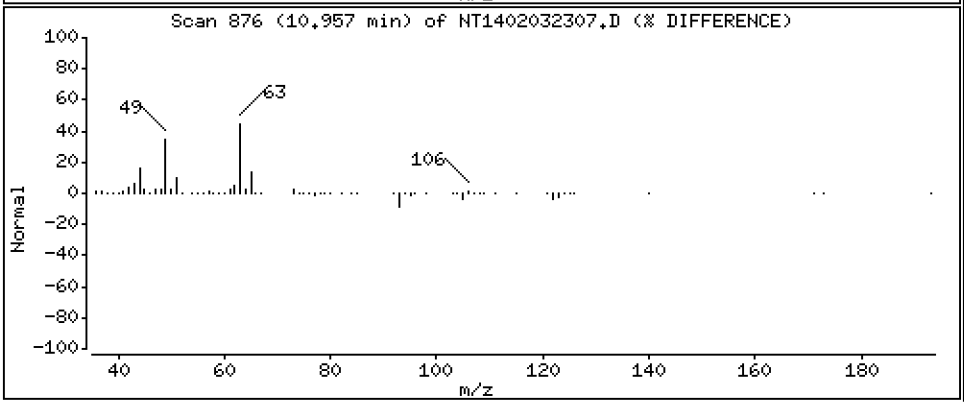












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

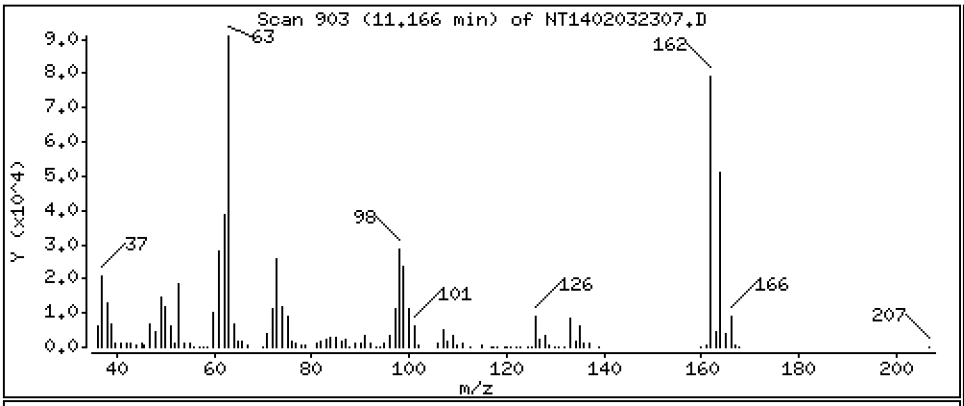
Operator: DSD

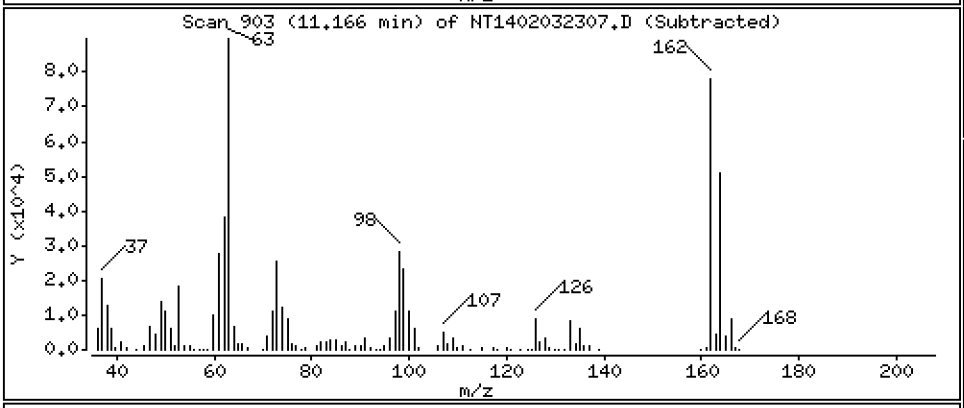
Column phase: ZB-5msi

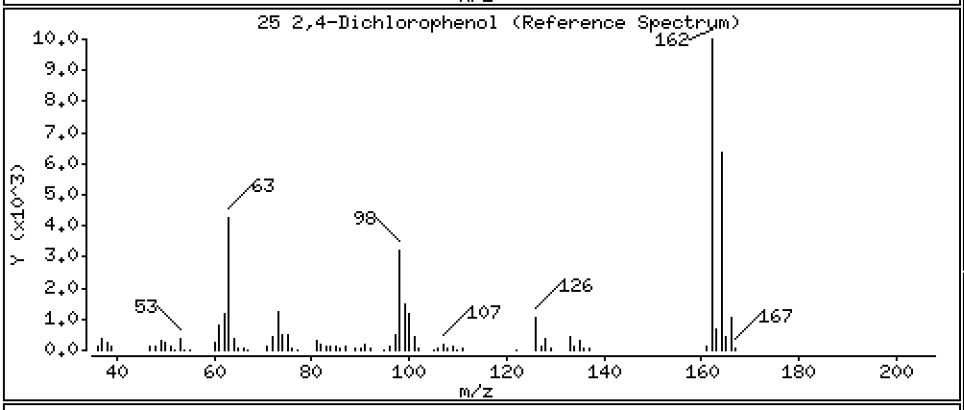
Column diameter: 0.25

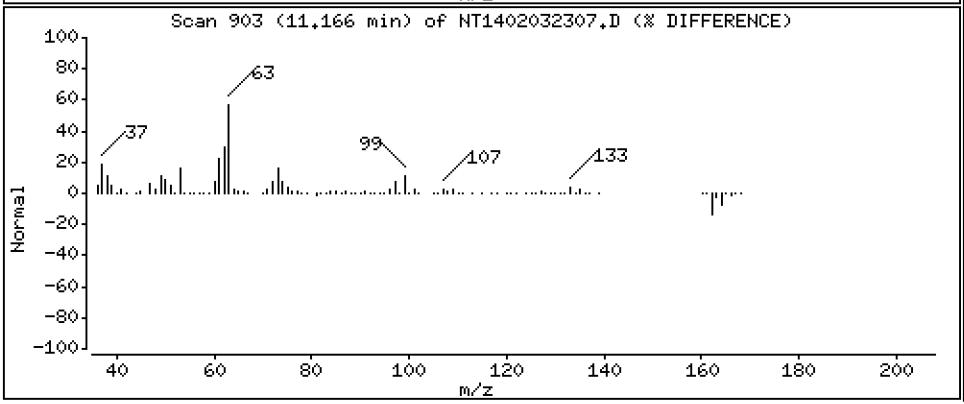
25 2,4-Dichlorophenol

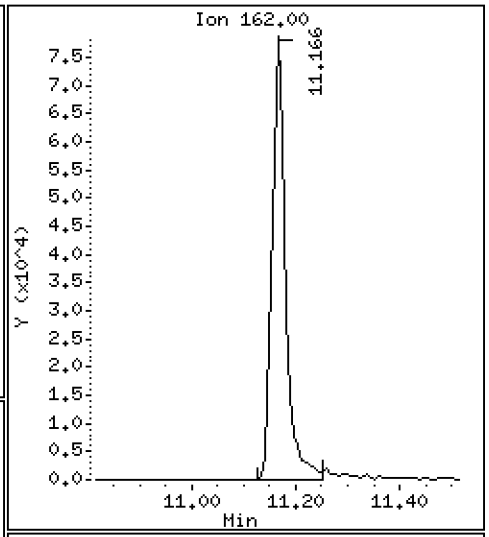
Concentration: 6.038 ug/mL

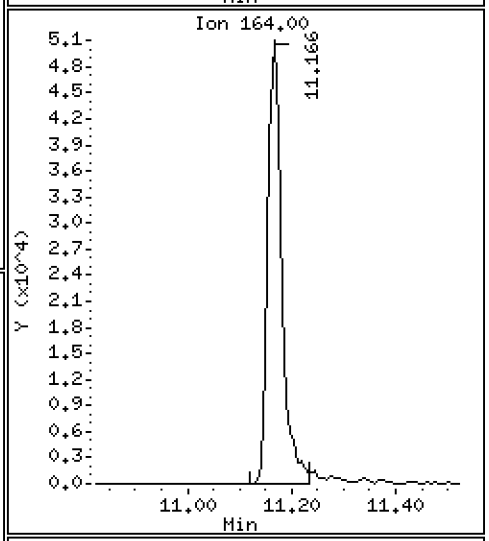


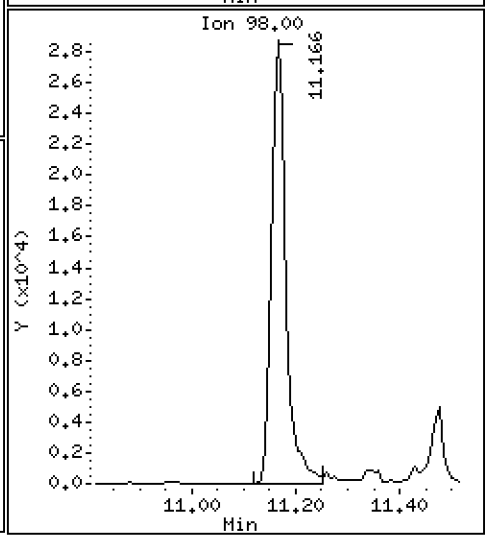












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

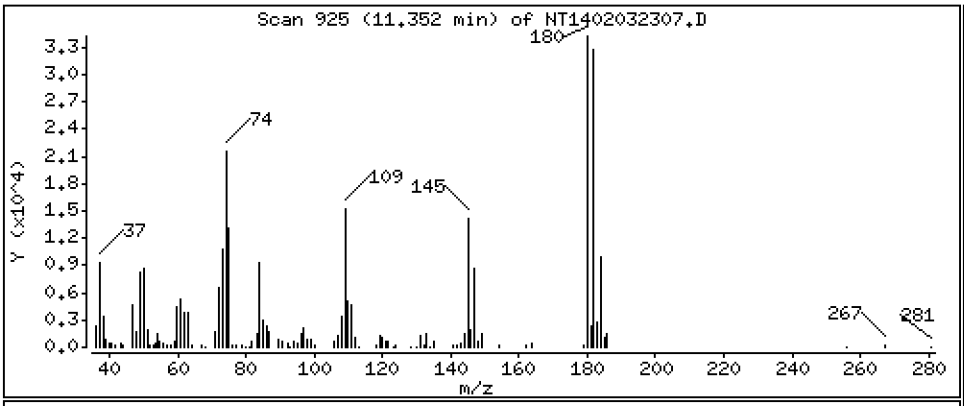
Operator: DSD

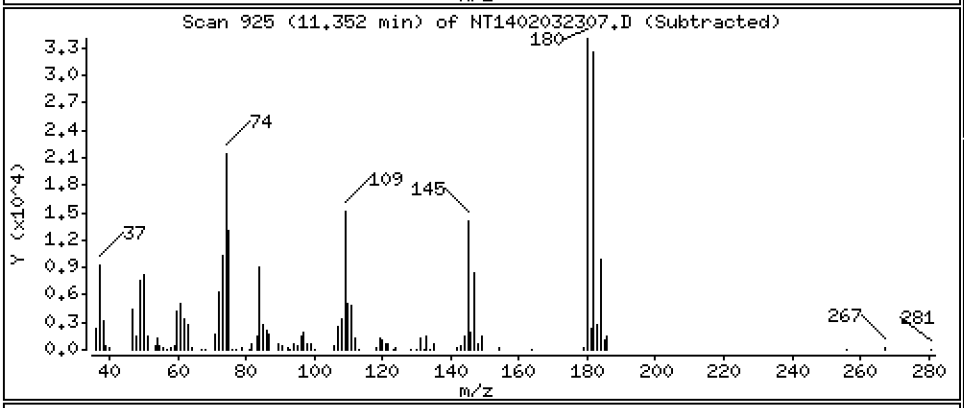
Column phase: ZB-5msi

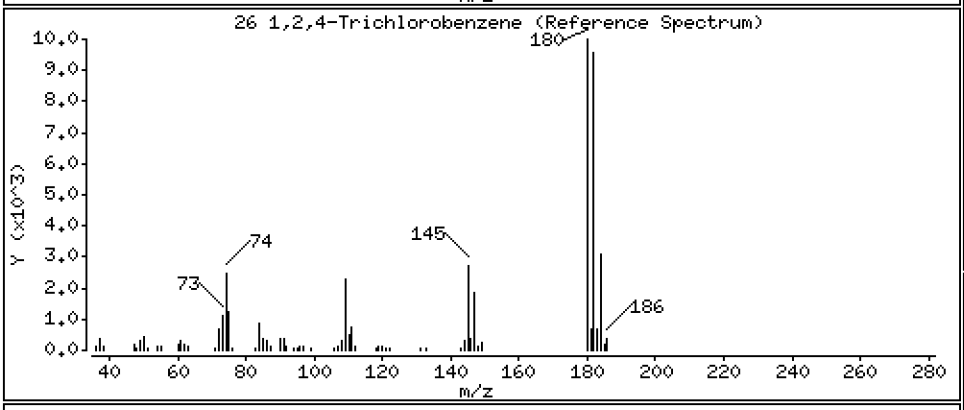
Column diameter: 0.25

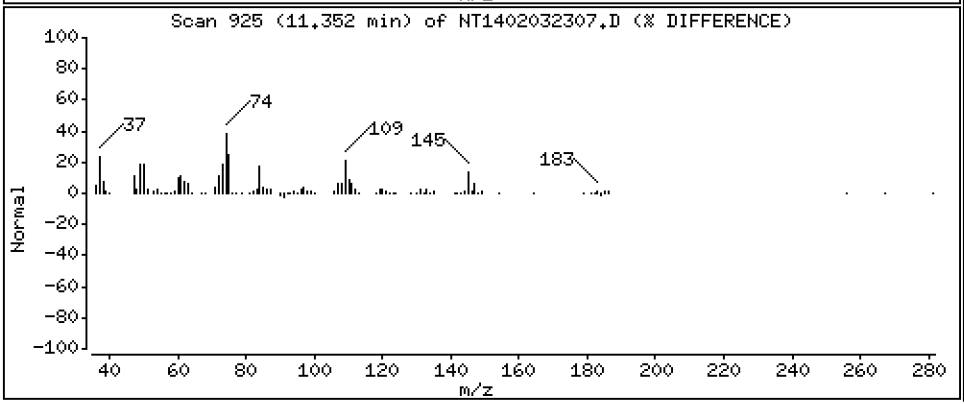
26 1,2,4-Trichlorobenzene

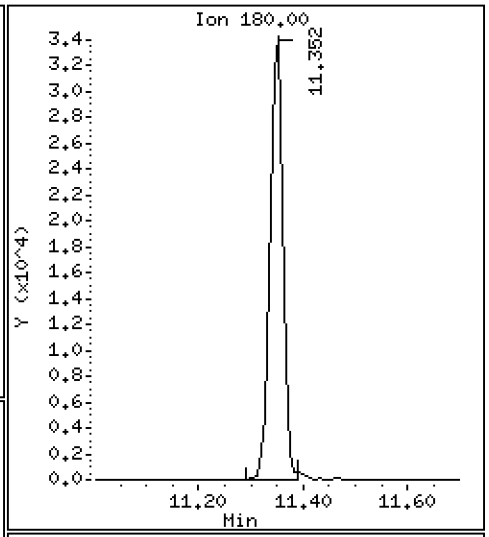
Concentration: 2.584 ug/mL

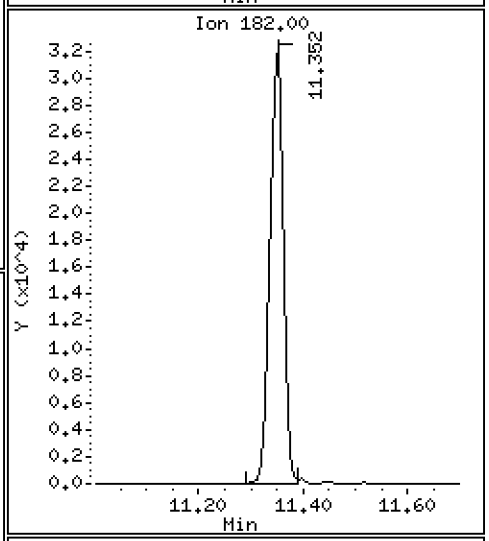


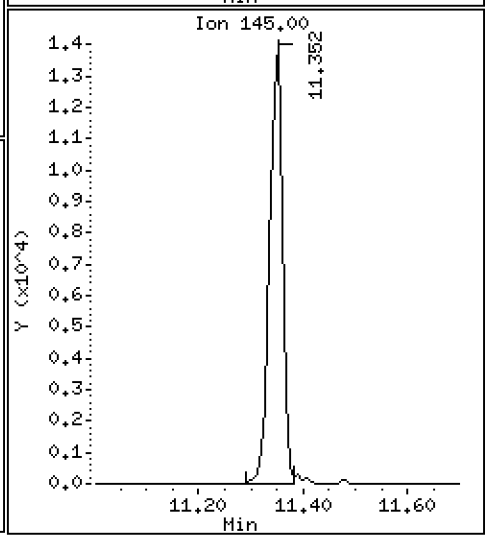












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

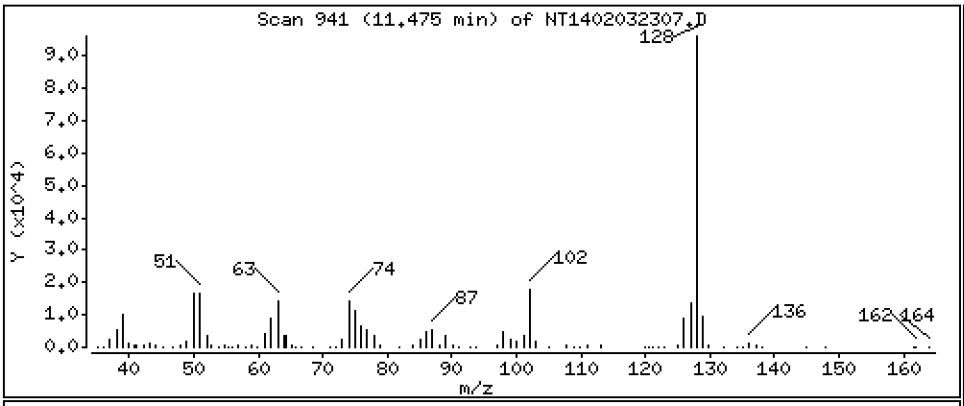
Operator: DSD

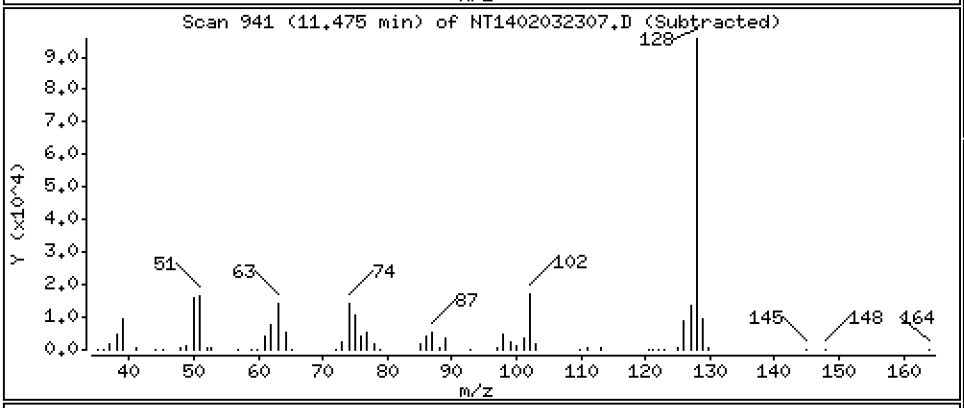
Column phase: ZB-5msi

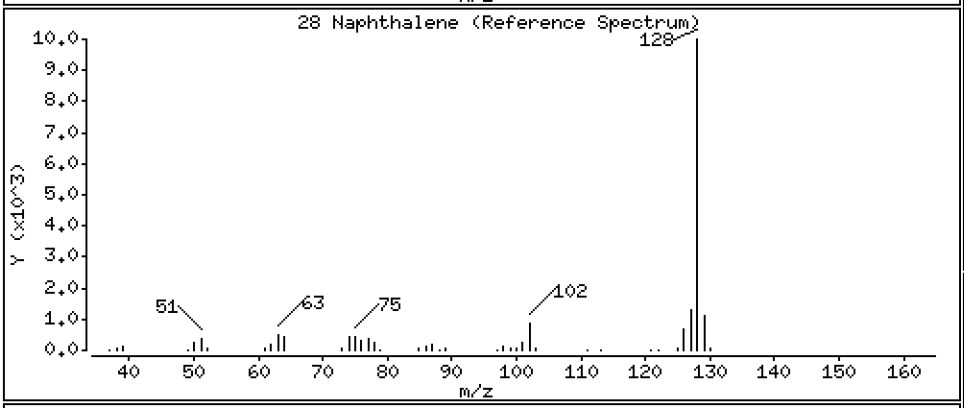
Column diameter: 0.25

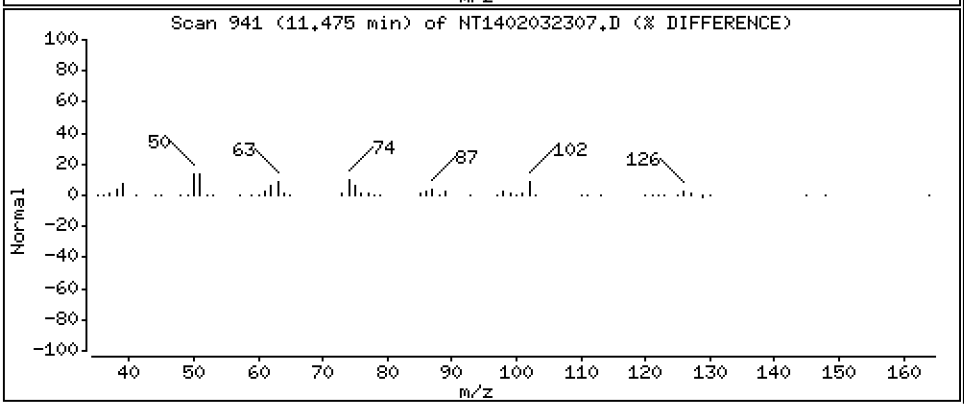
28 Naphthalene

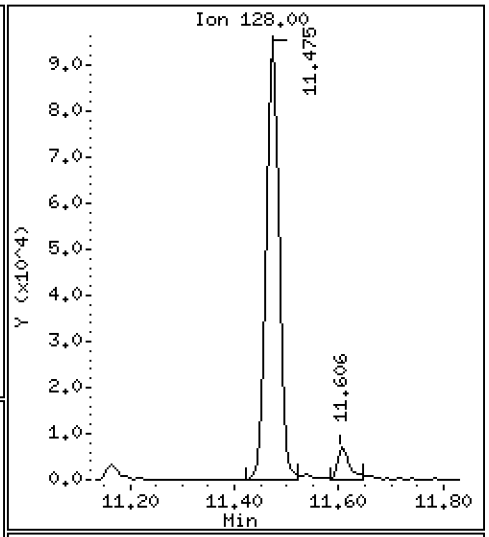
Concentration: 2.319 ug/mL

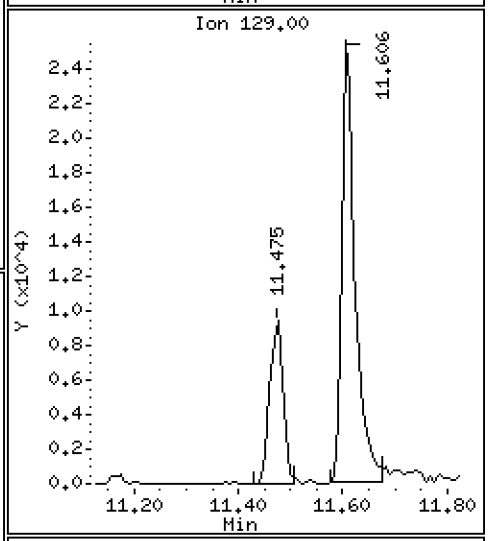


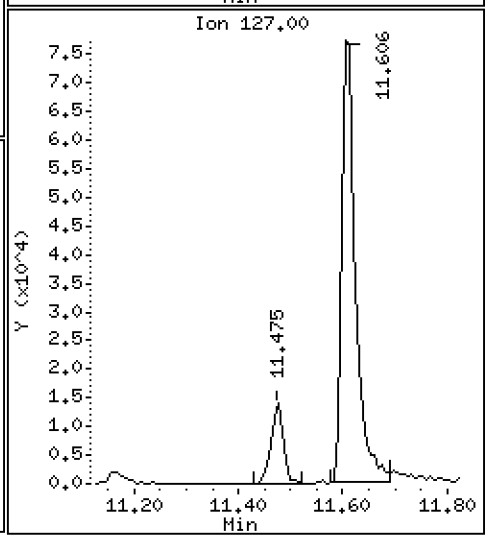












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

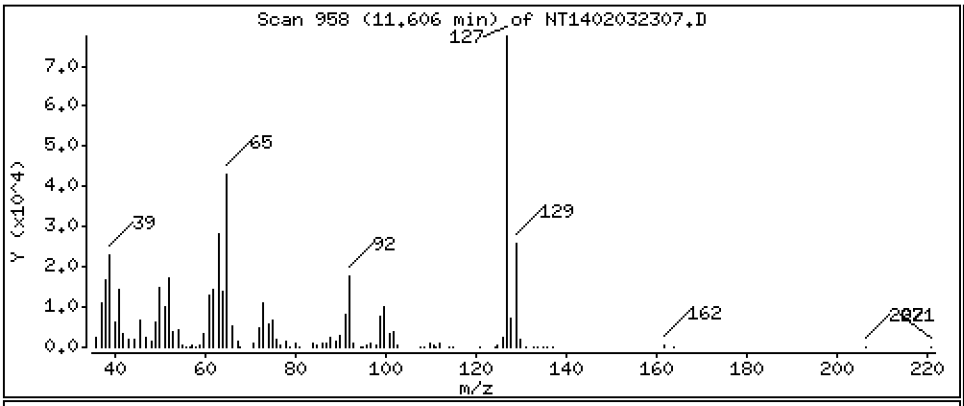
Operator: DSD

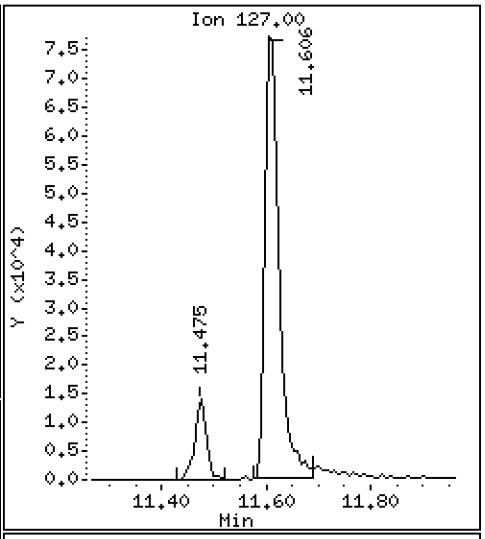
Column phase: ZB-5msi

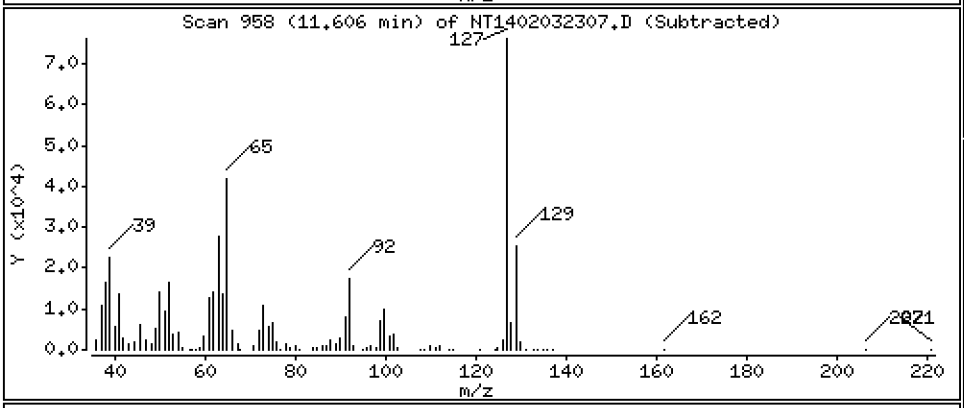
Column diameter: 0.25

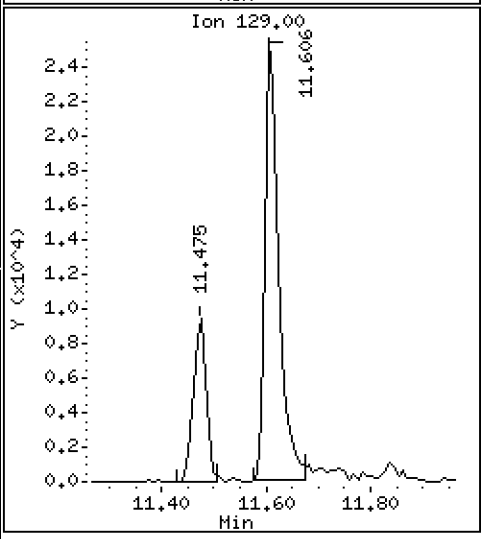
29 4-Chloroaniline

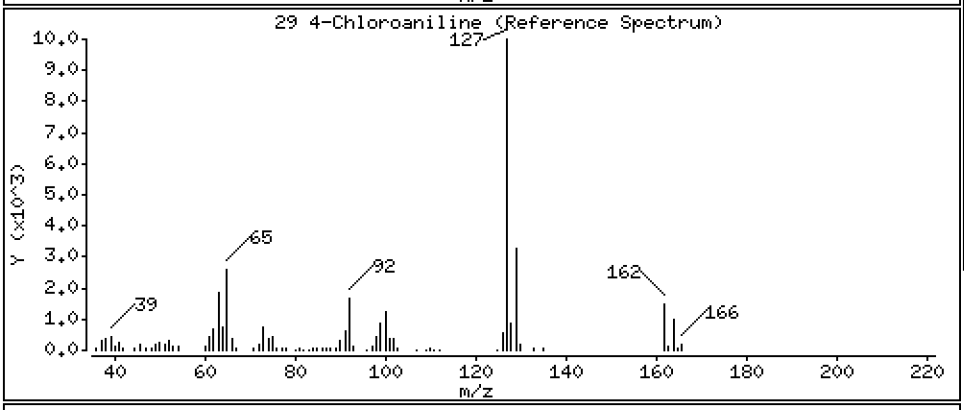
Concentration: 5.100 ug/mL

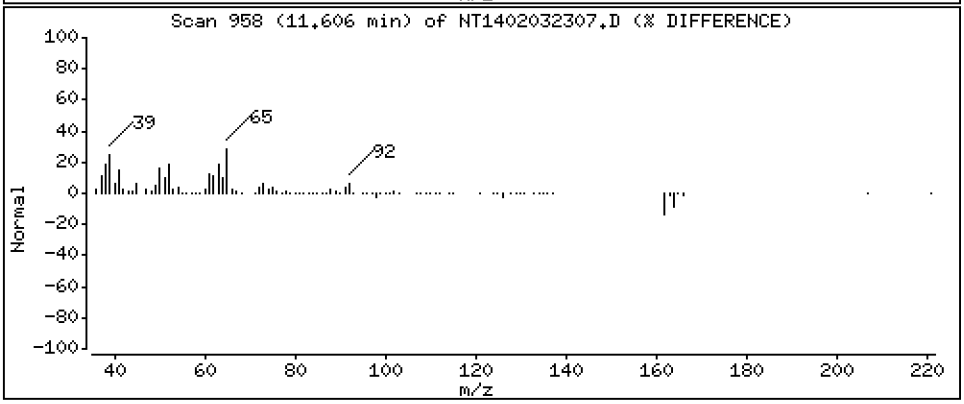












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

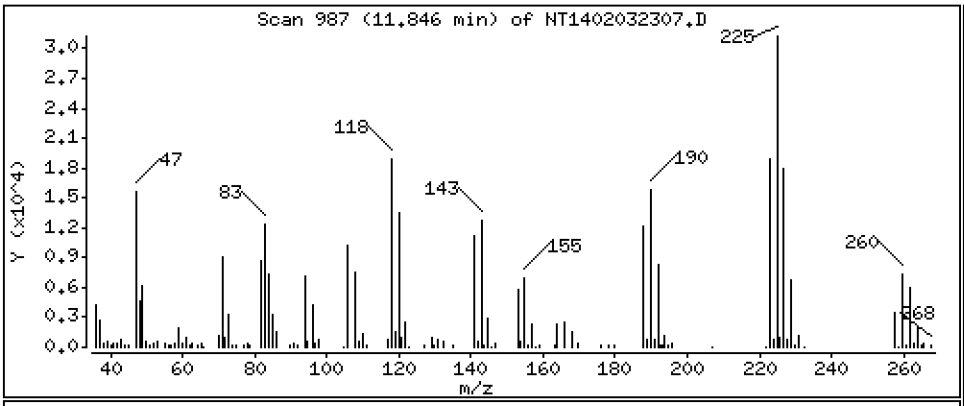
Operator: DSD

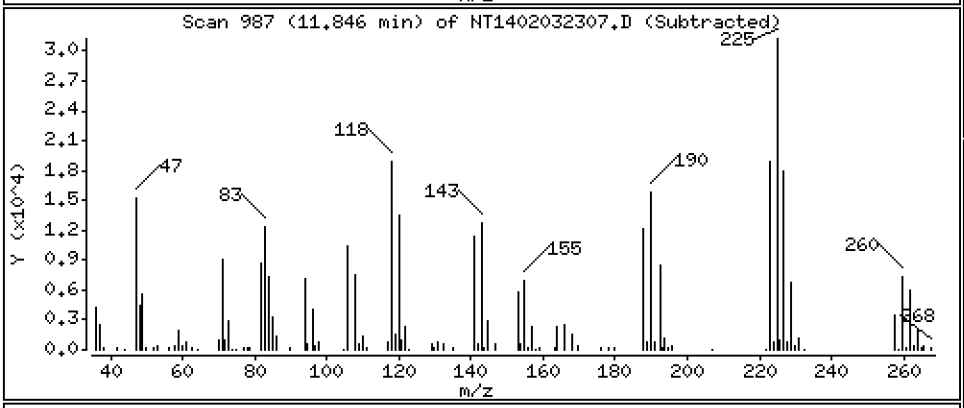
Column phase: ZB-5msi

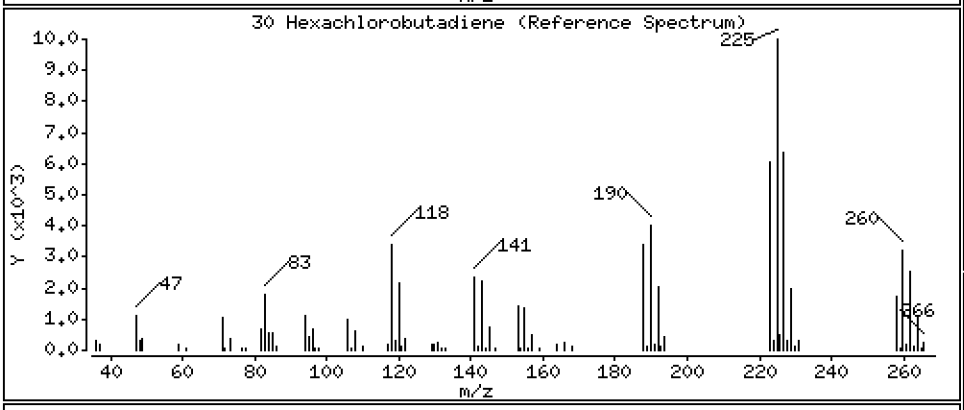
Column diameter: 0.25

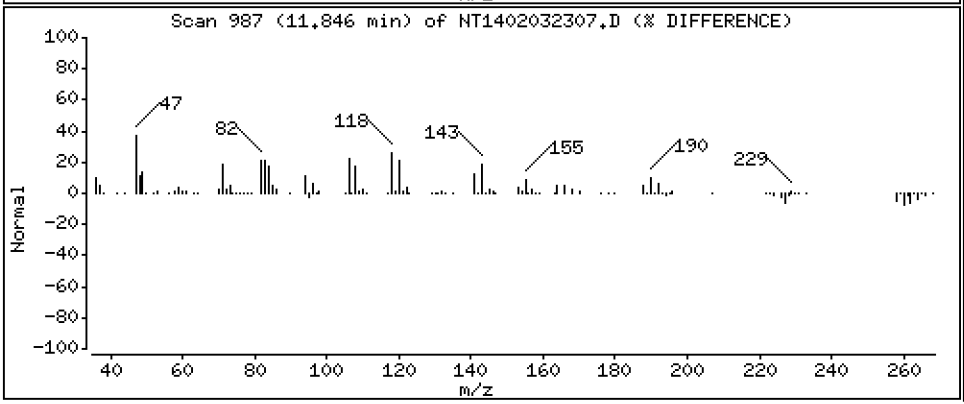
30 Hexachlorobutadiene

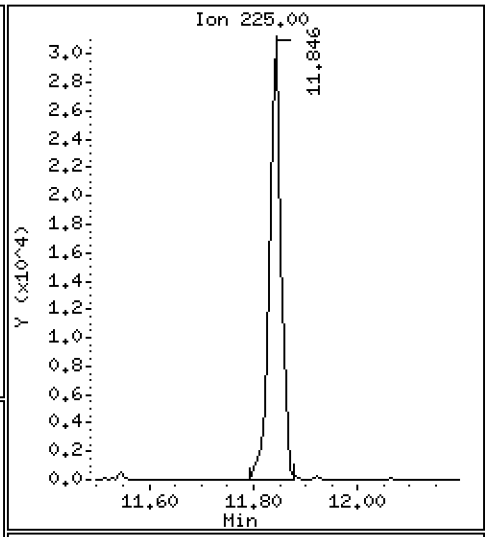
Concentration: 2.805 ug/mL

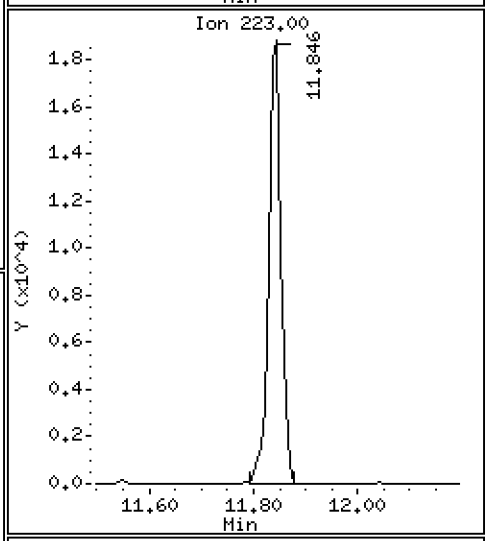


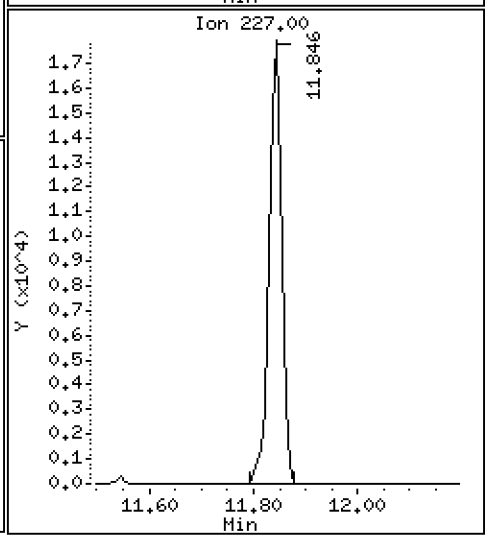












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

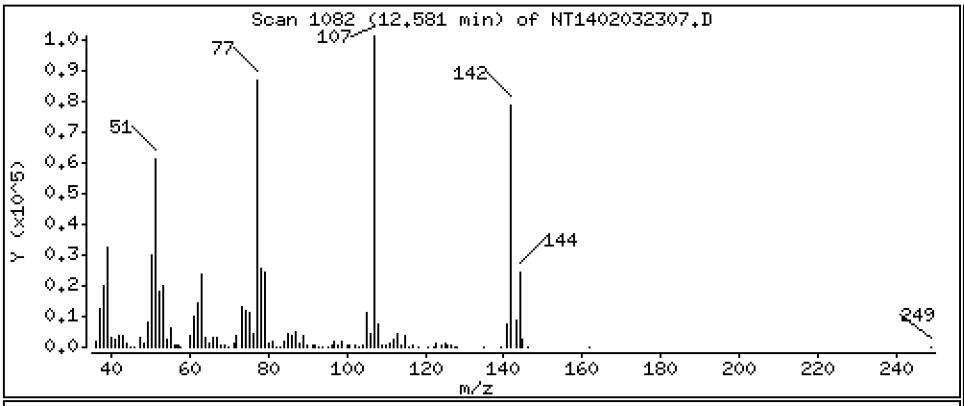
Operator: DSD

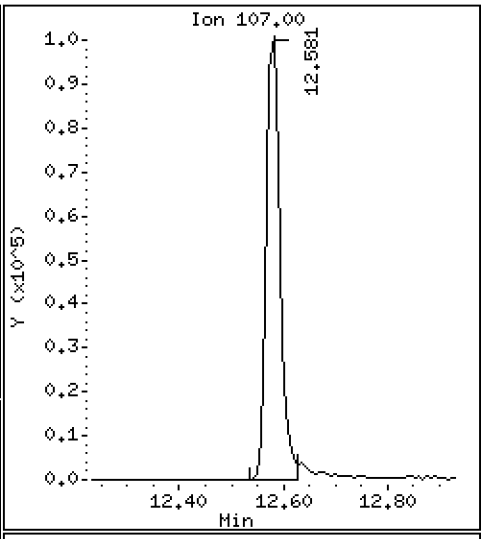
Column phase: ZB-5msi

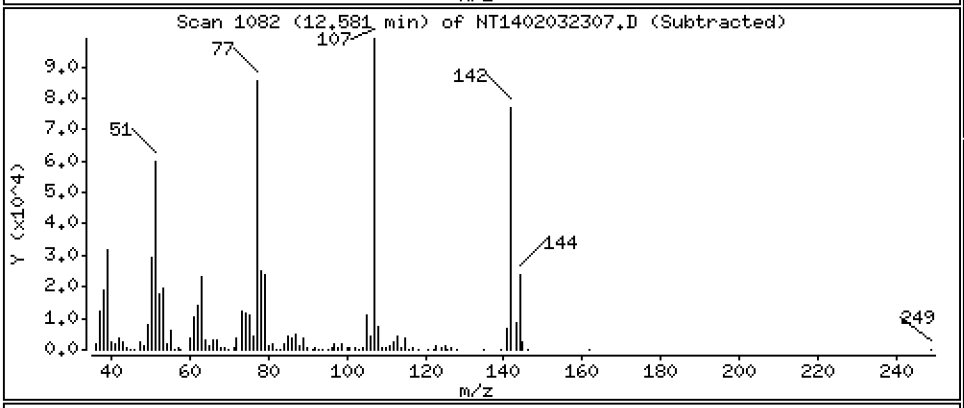
Column diameter: 0.25

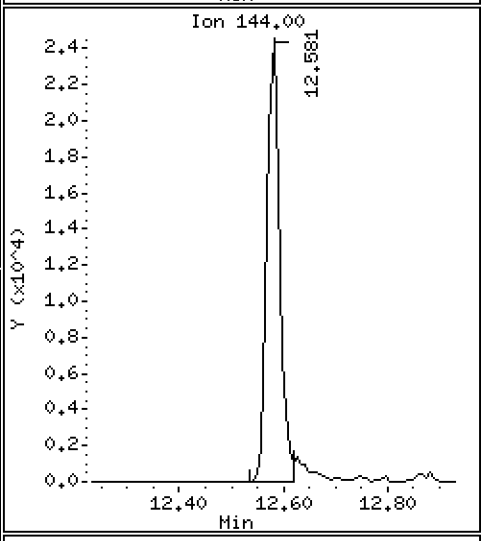
31 4-Chloro-3-methylphenol

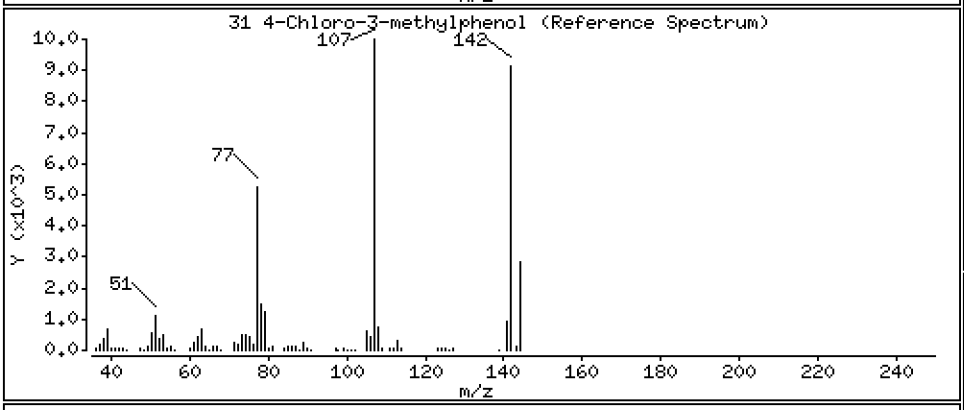
Concentration: 5.648 ug/mL

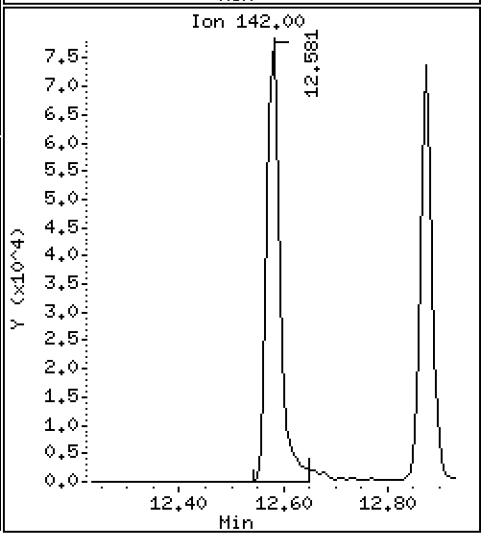


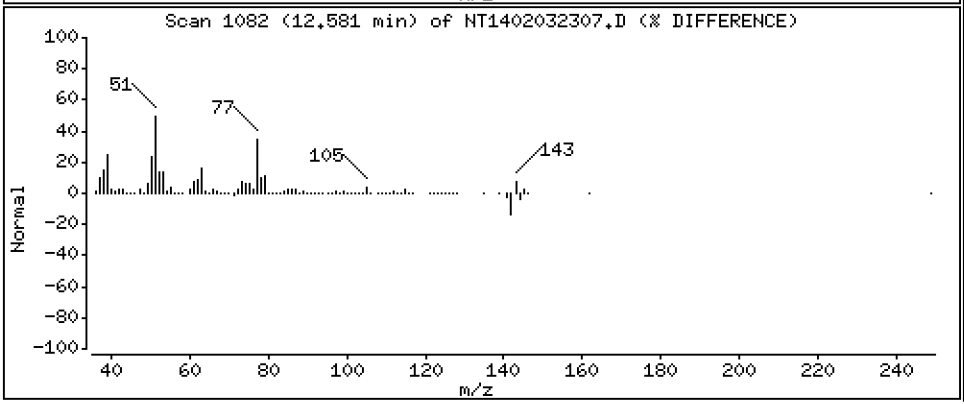












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

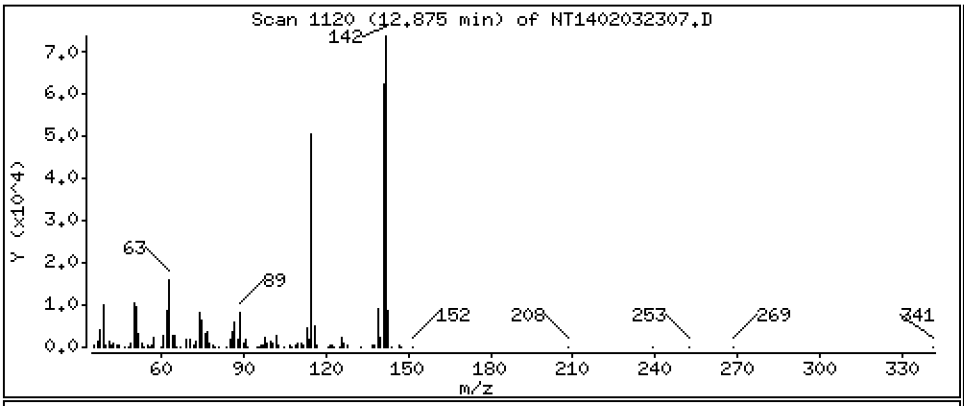
Operator: DSD

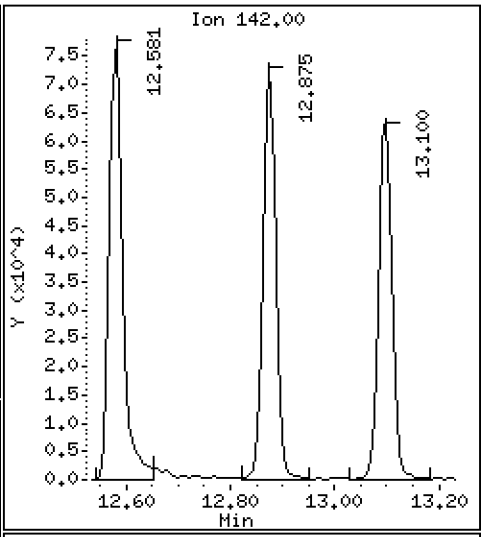
Column phase: ZB-5msi

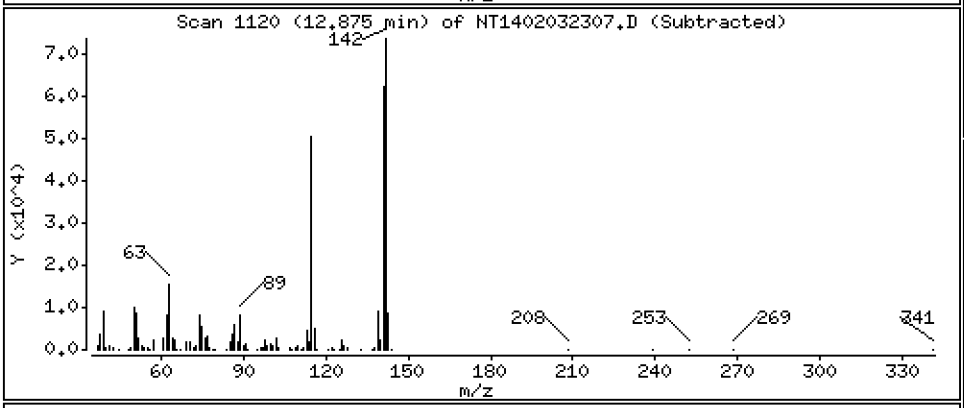
Column diameter: 0.25

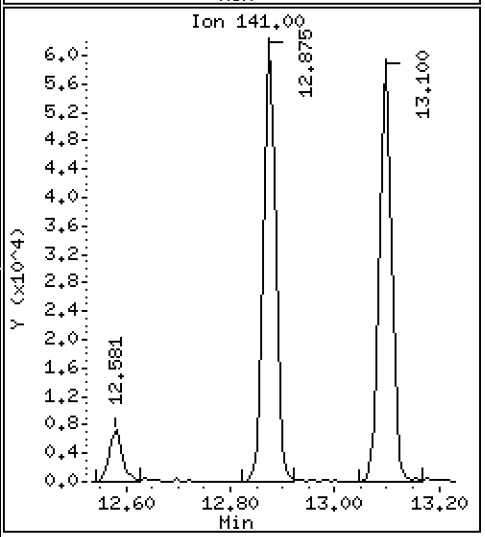
32 2-Methylnaphthalene

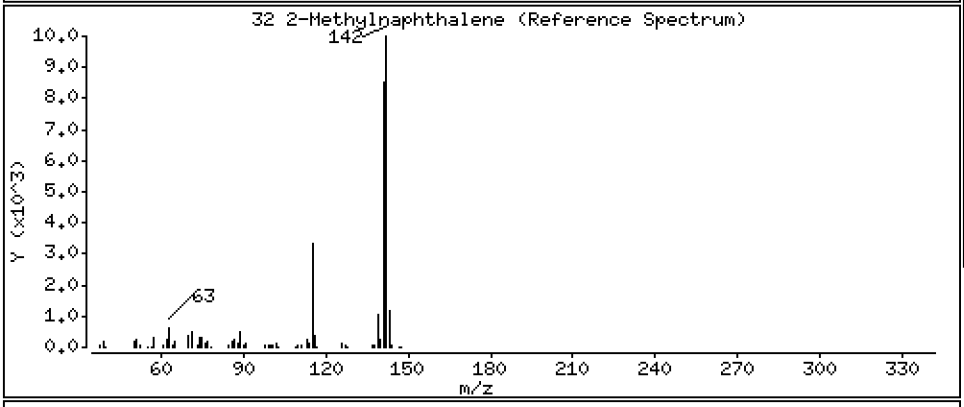
Concentration: 2.174 ug/mL

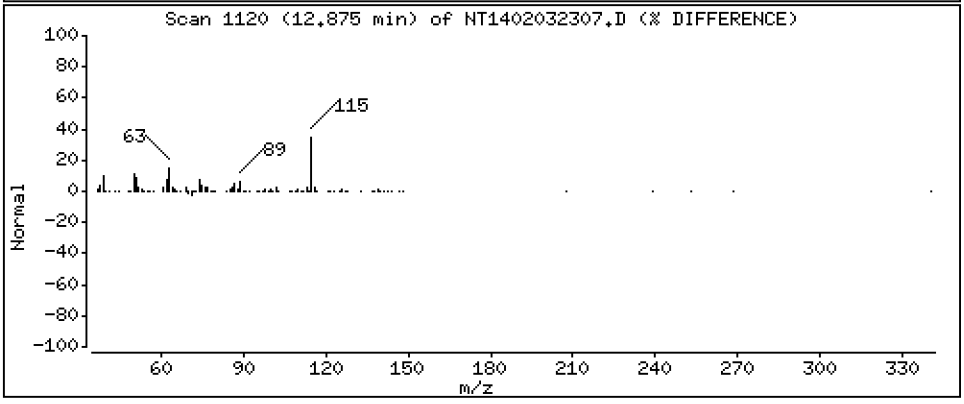












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

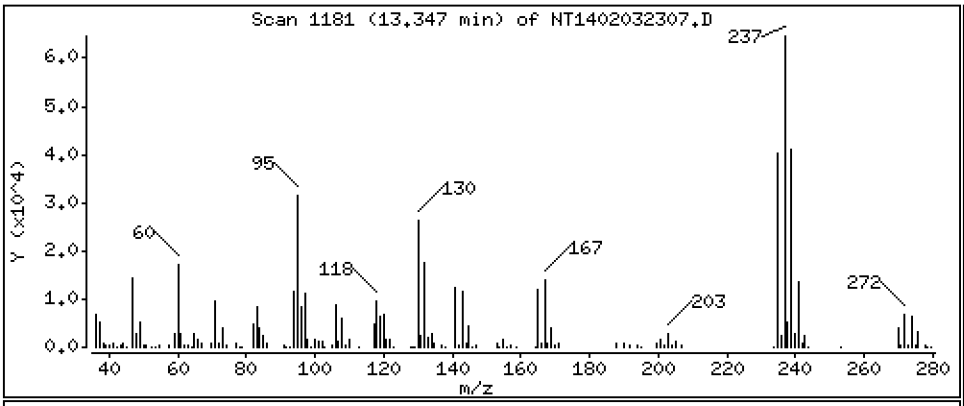
Operator: DSD

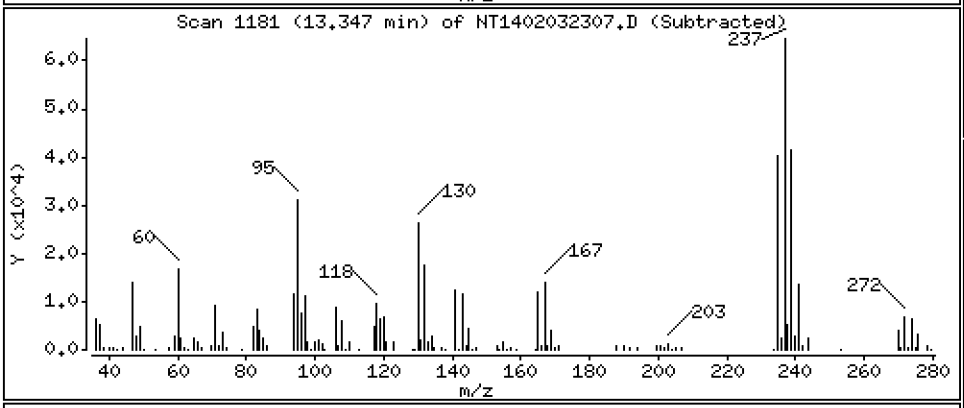
Column phase: ZB-5msi

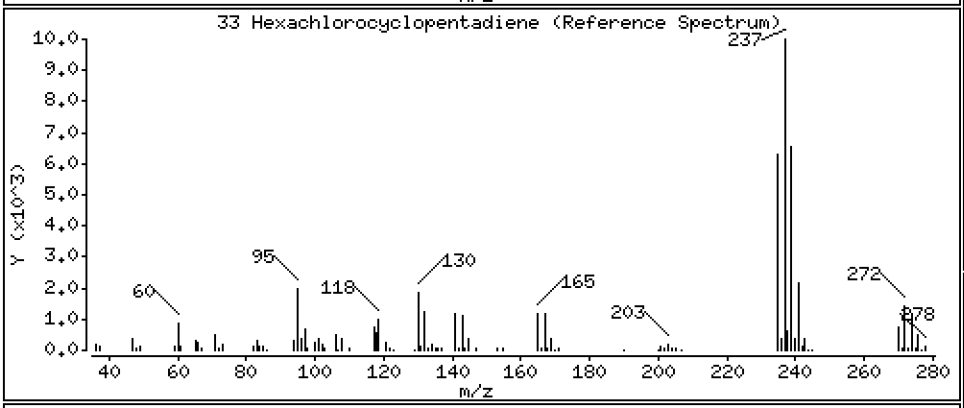
Column diameter: 0.25

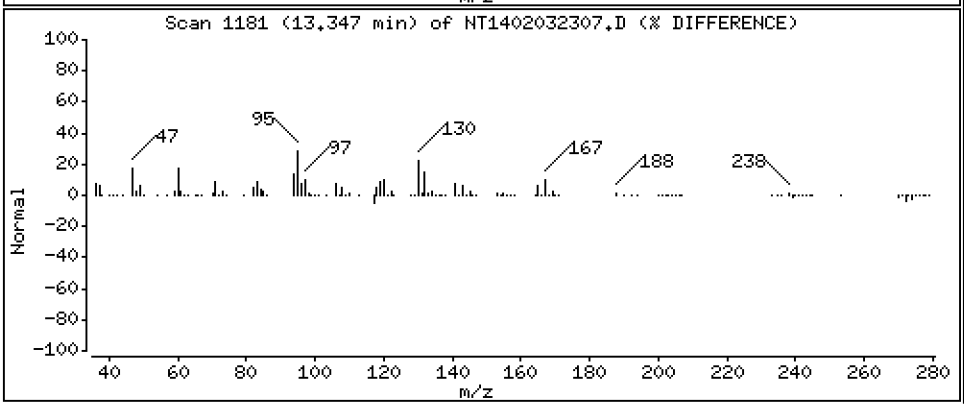
33 Hexachlorocyclopentadiene

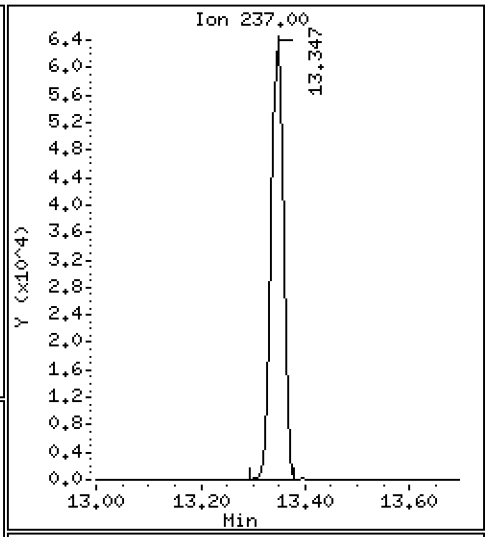
Concentration: 4.145 ug/mL

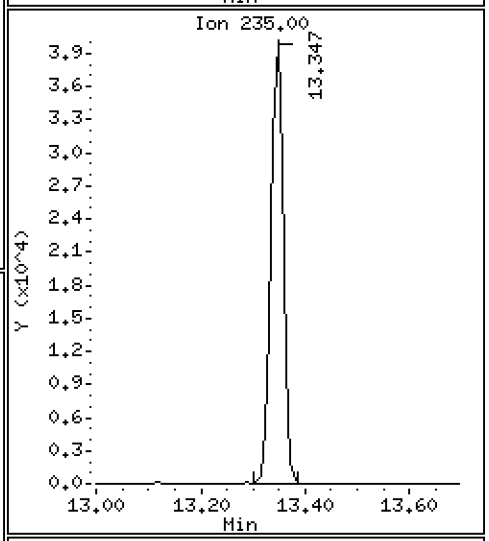


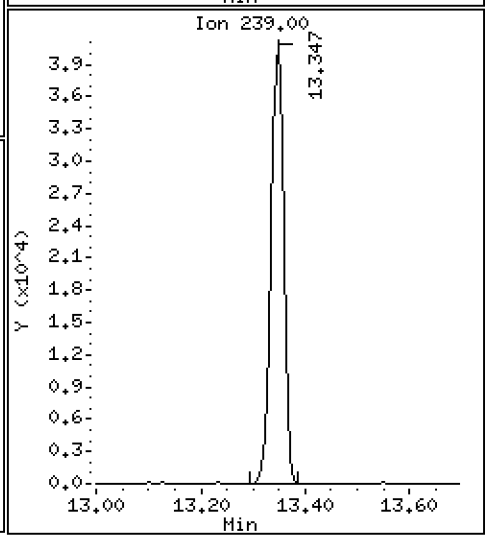












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

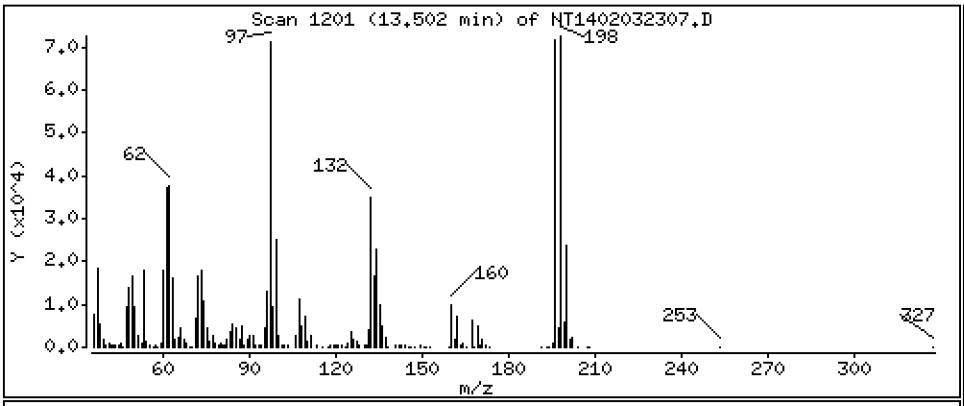
Operator: DSD

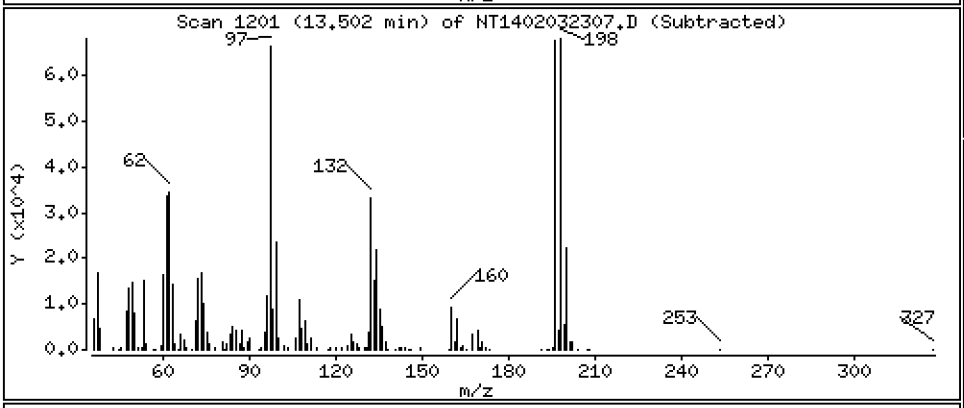
Column phase: ZB-5msi

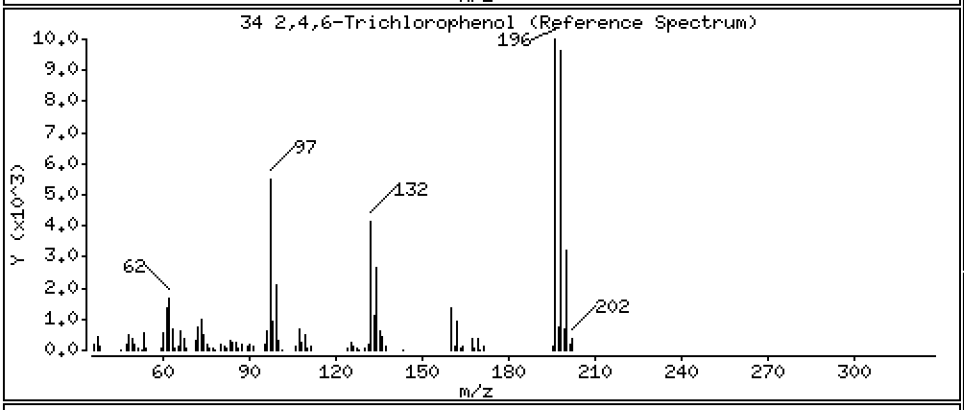
Column diameter: 0.25

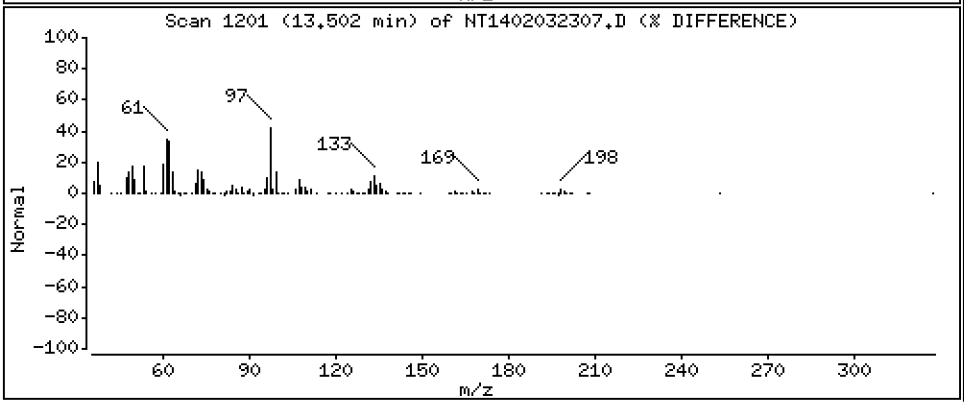
34 2,4,6-Trichlorophenol

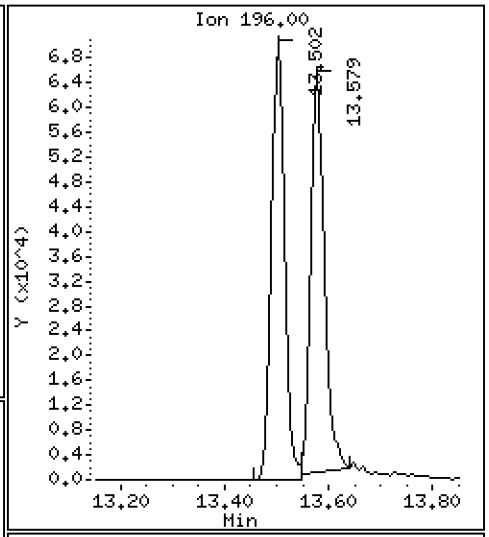
Concentration: 5.585 ug/mL

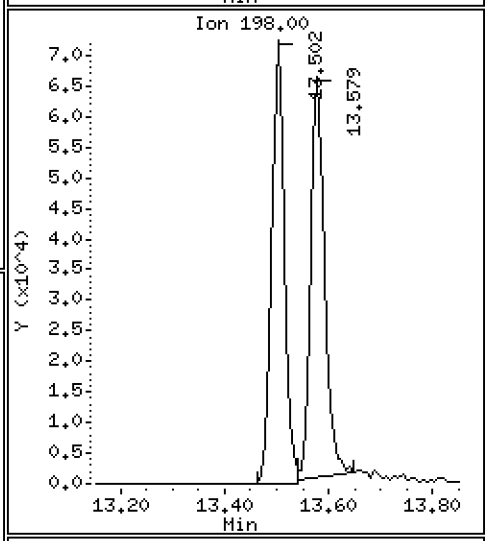


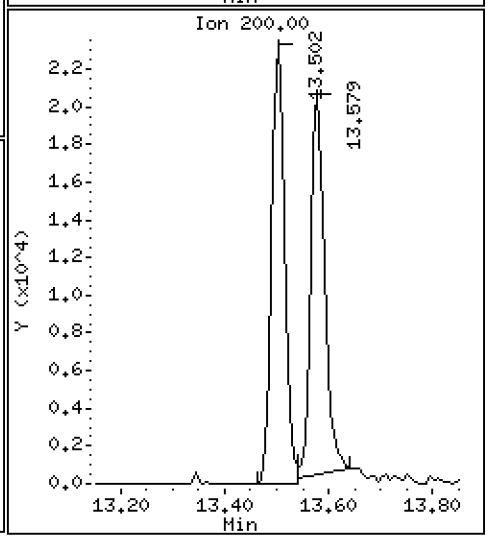












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

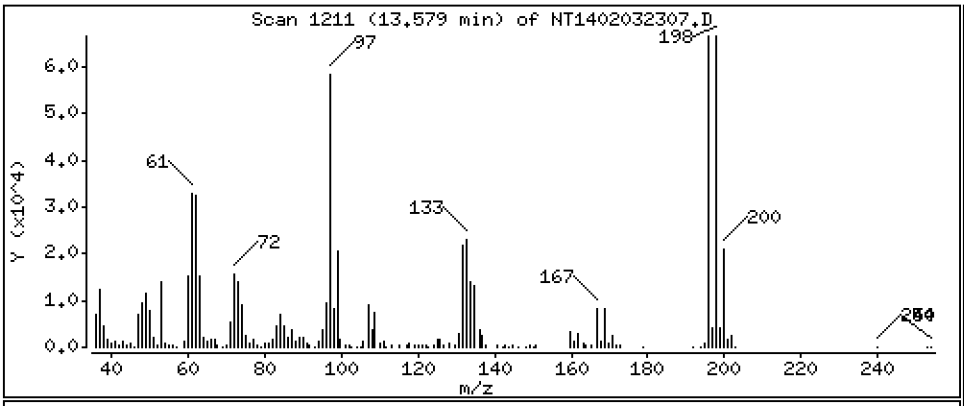
Operator: DSD

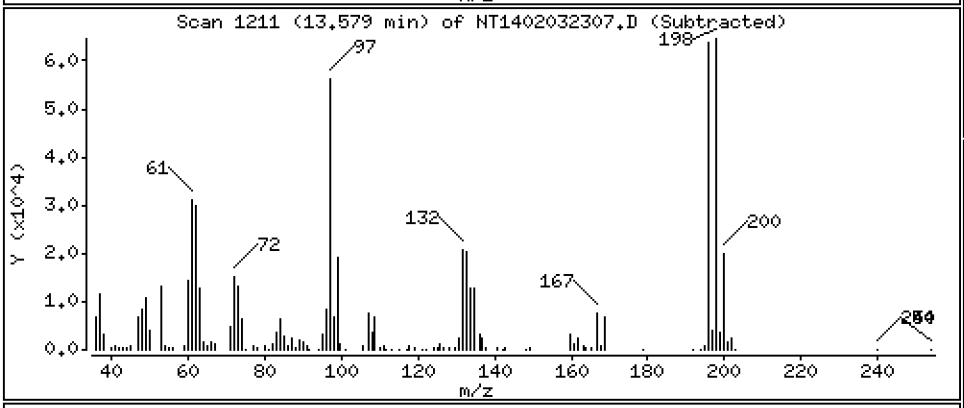
Column phase: ZB-5msi

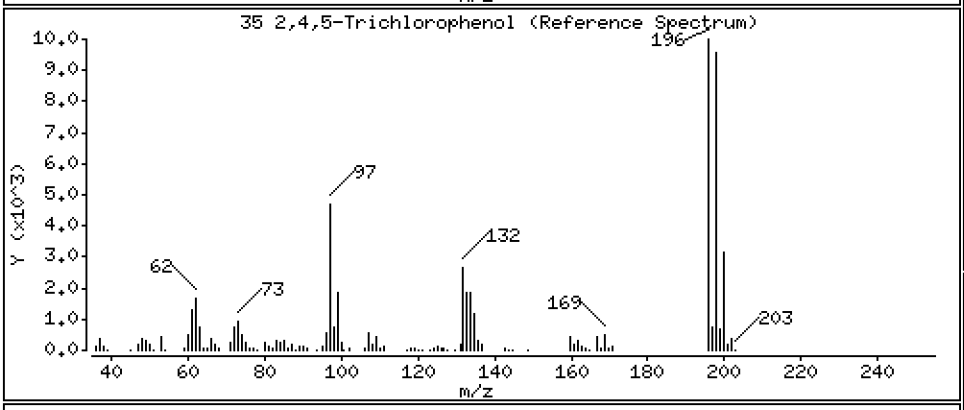
Column diameter: 0.25

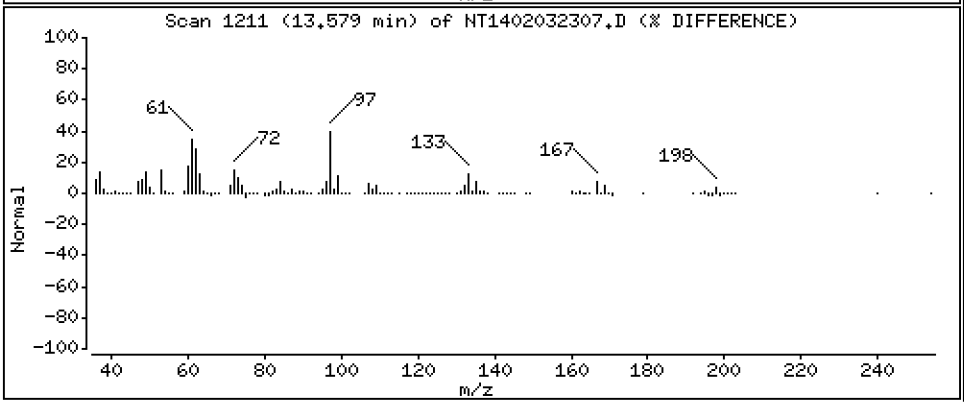
35 2,4,5-Trichlorophenol

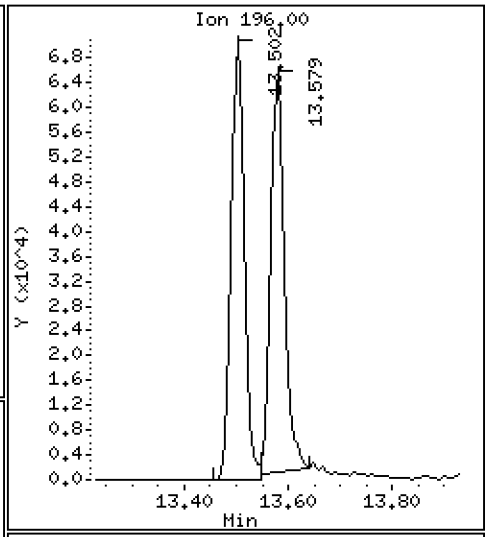
Concentration: 4.716 ug/mL

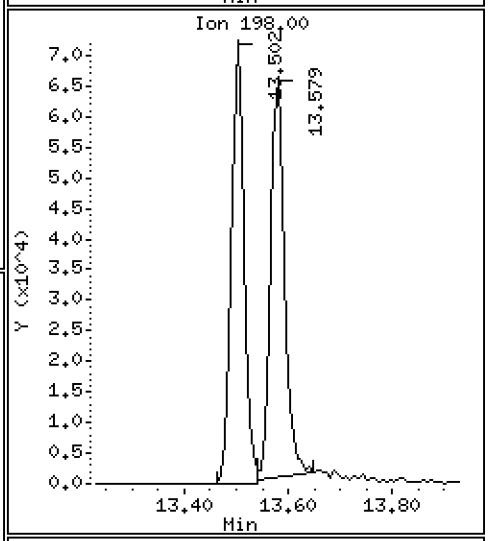


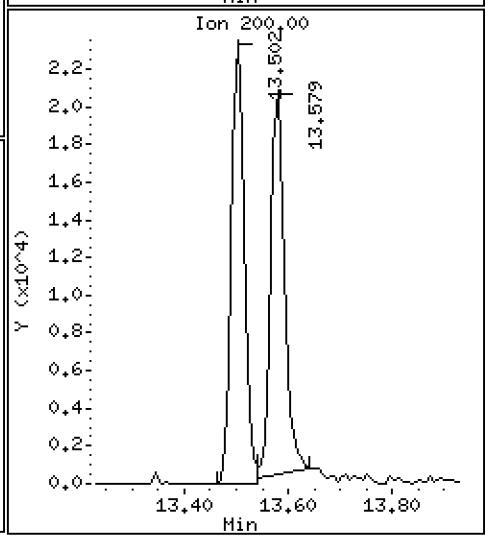












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

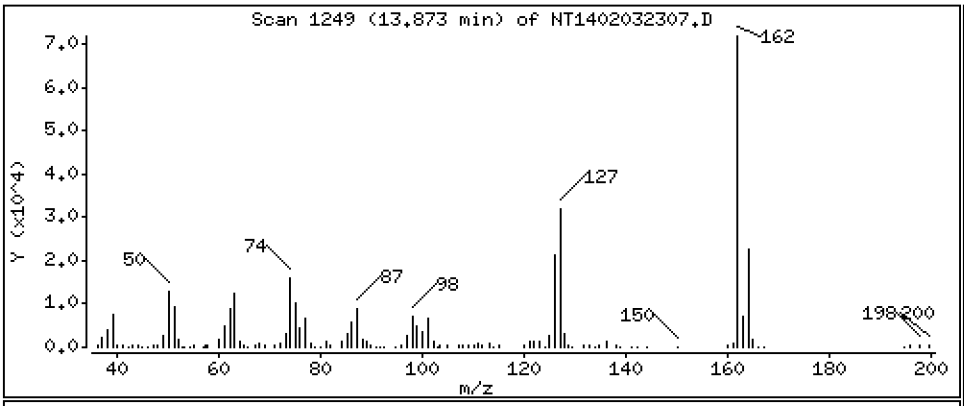
Operator: DSD

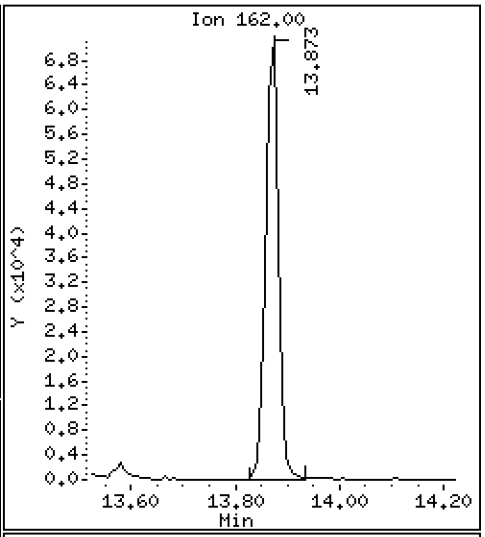
Column phase: ZB-5msi

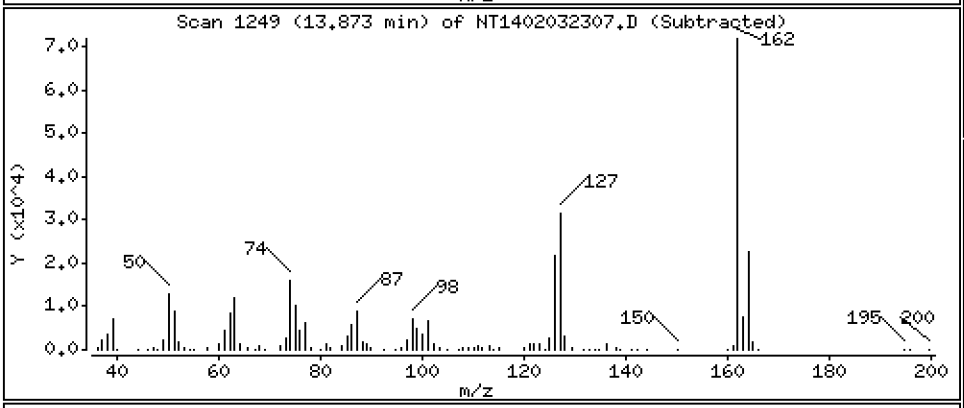
Column diameter: 0.25

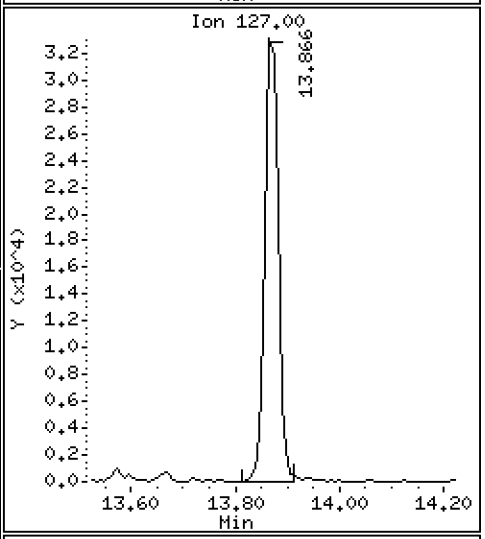
37 2-Chloronaphthalene

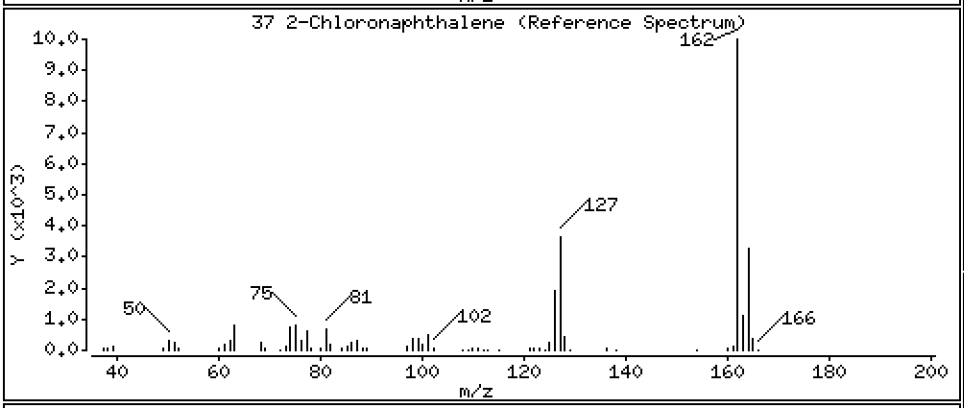
Concentration: 2.256 ug/mL

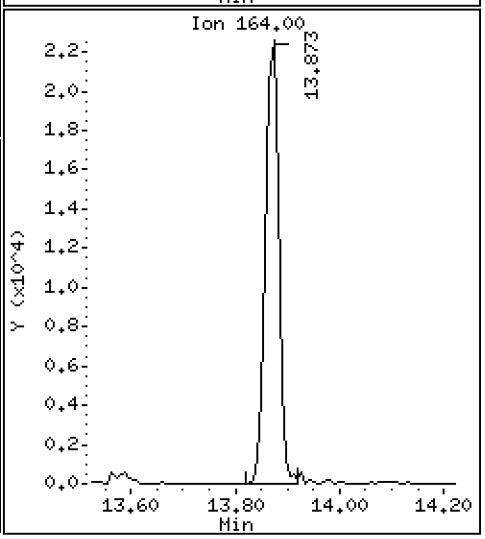


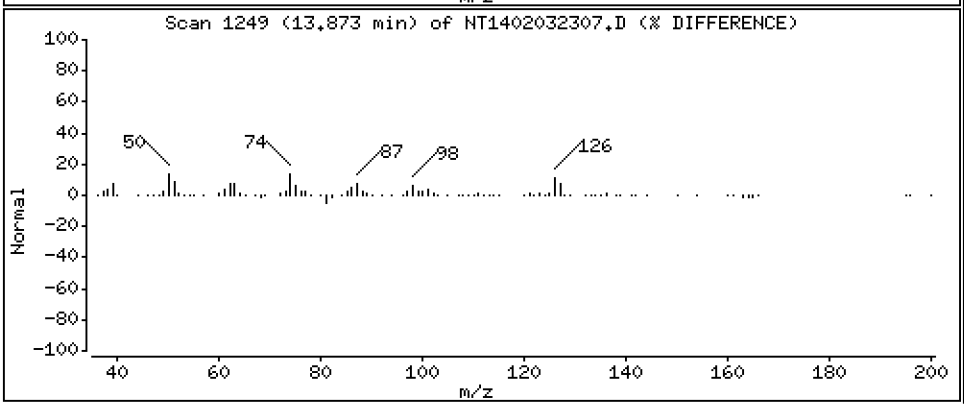












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

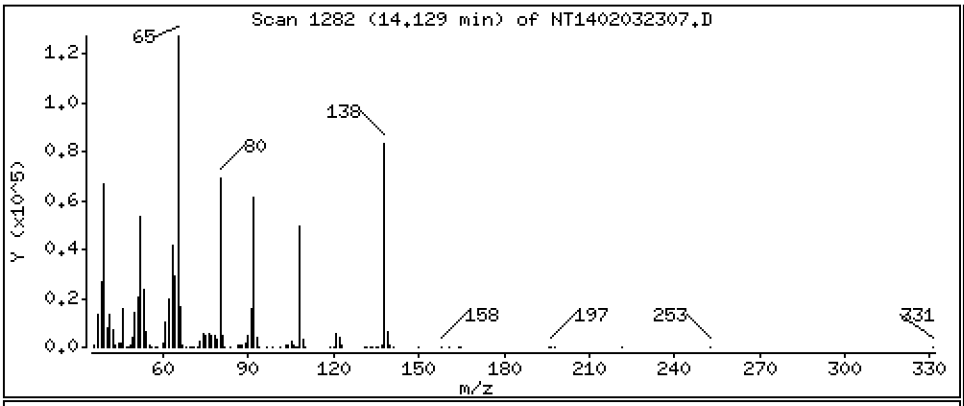
Operator: DSD

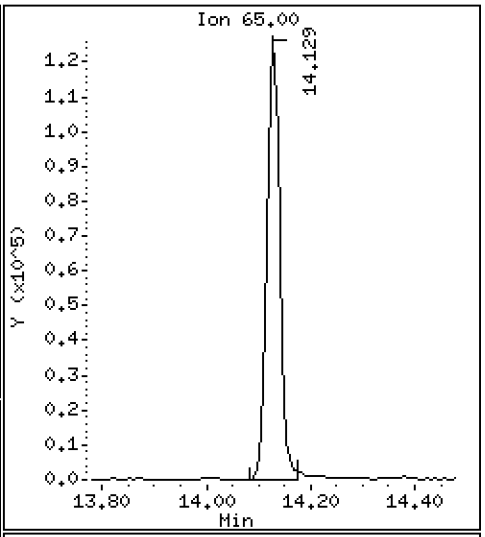
Column phase: ZB-5msi

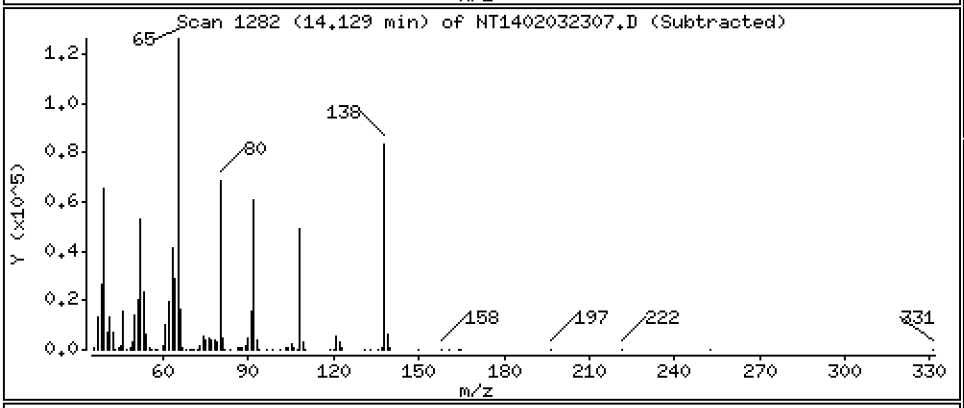
Column diameter: 0.25

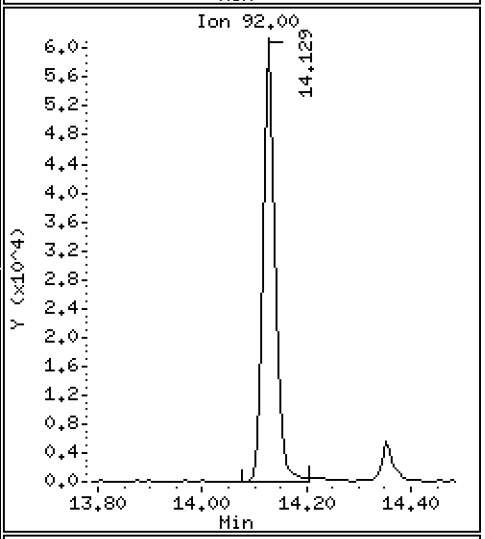
38 2-Nitroaniline

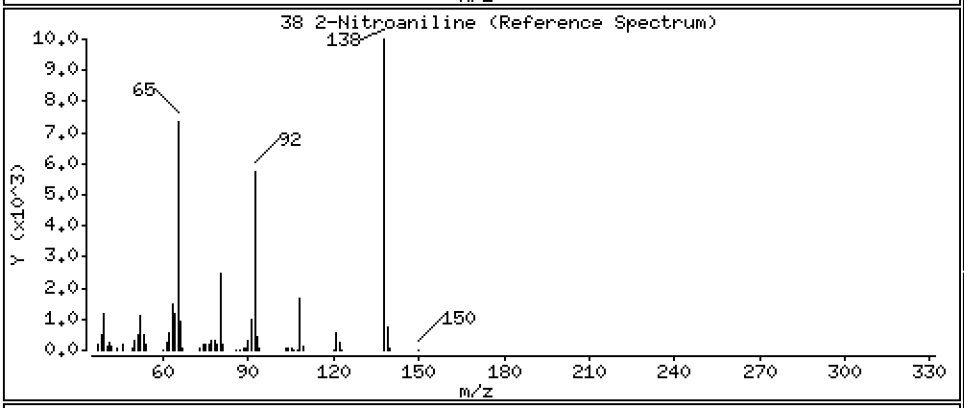
Concentration: 6.786 ug/mL

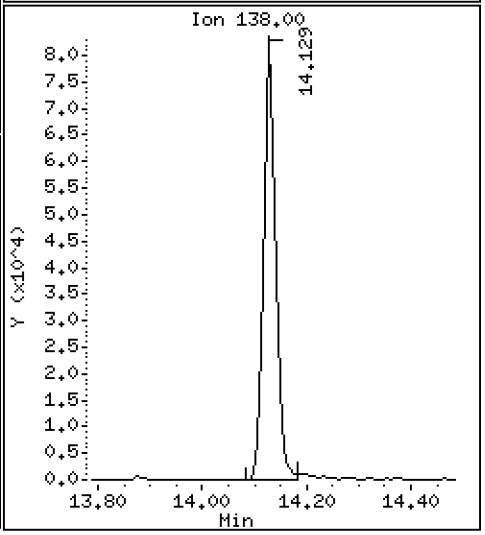


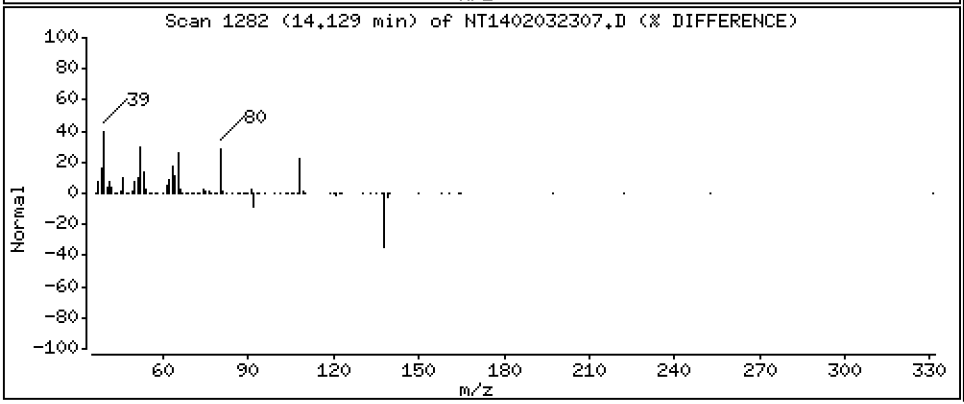












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

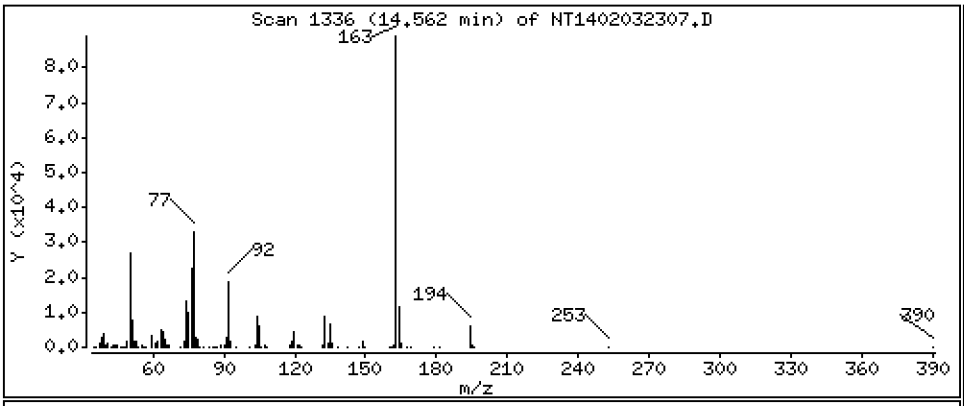
Operator: DSD

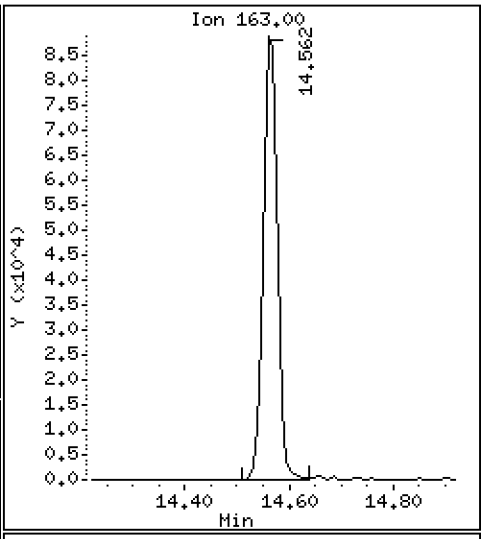
Column phase: ZB-5msi

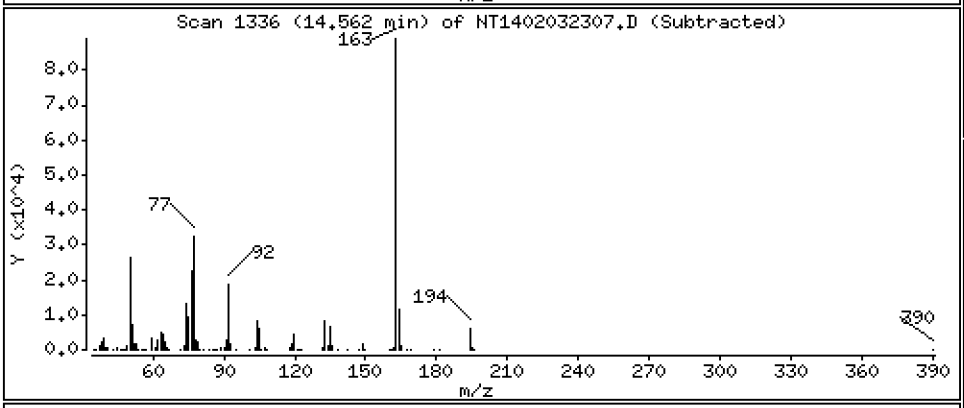
Column diameter: 0.25

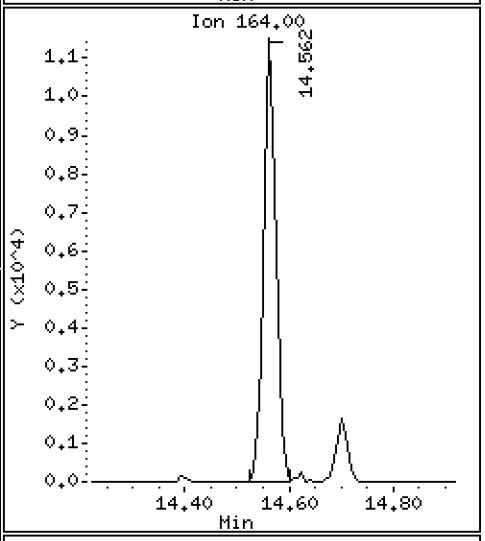
39 Dimethylphthalate

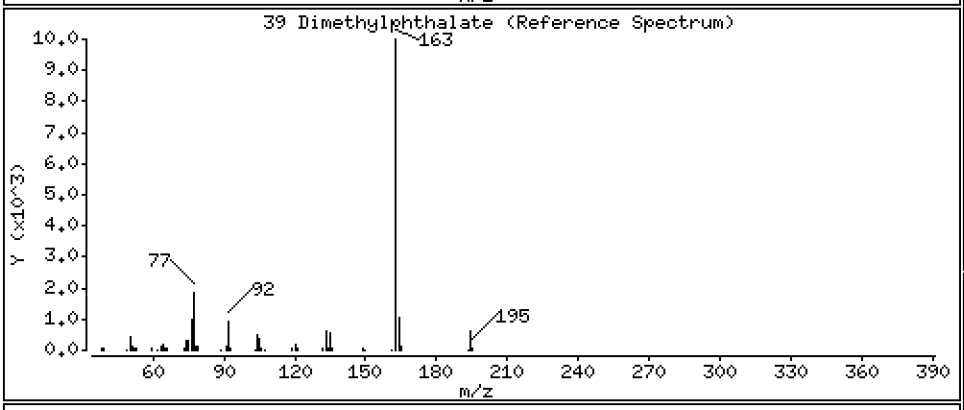
Concentration: 2.458 ug/mL

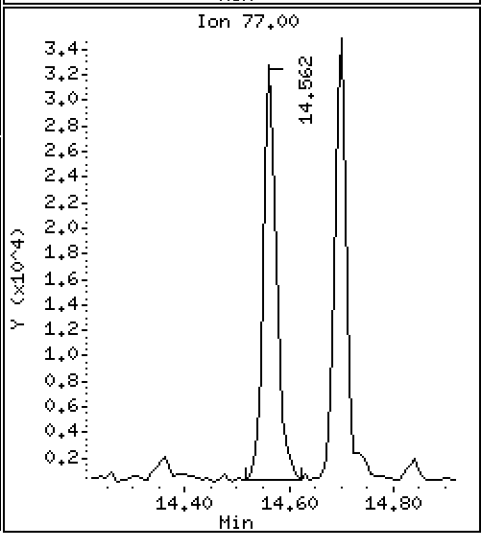


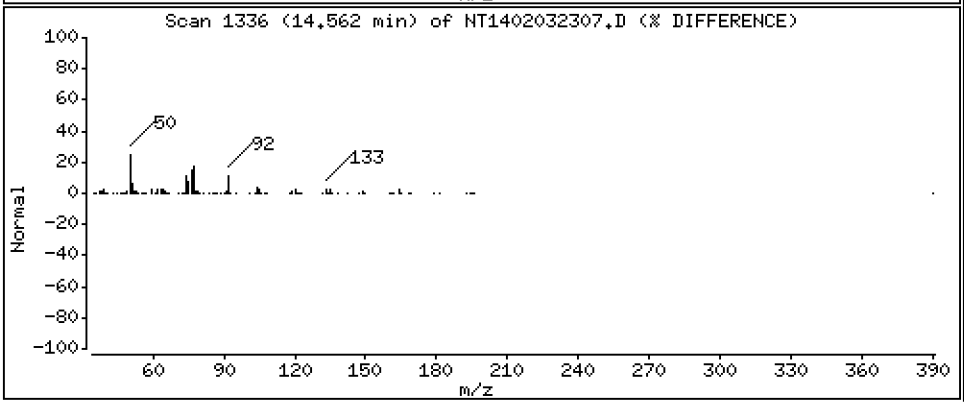












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

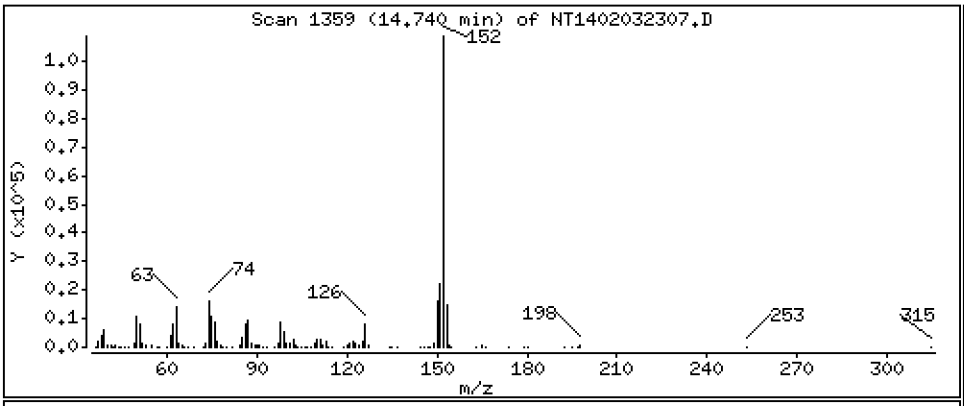
Operator: DSD

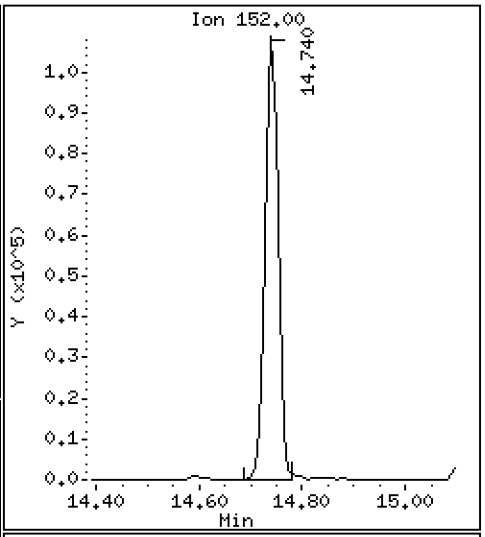
Column phase: ZB-5msi

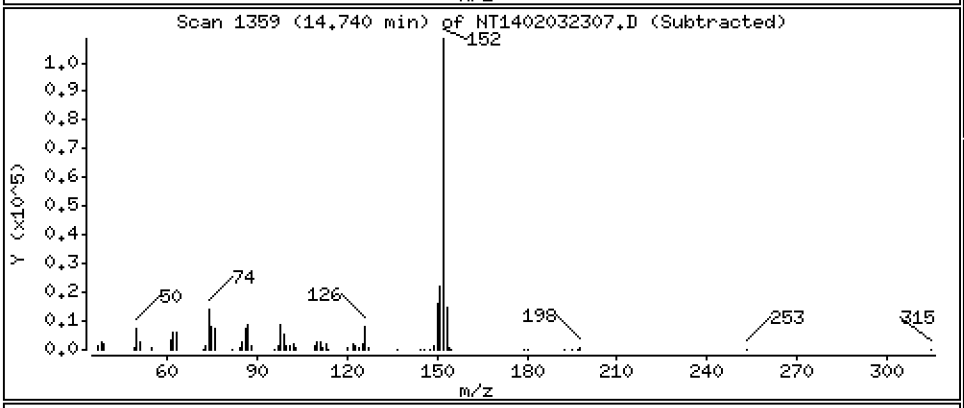
Column diameter: 0.25

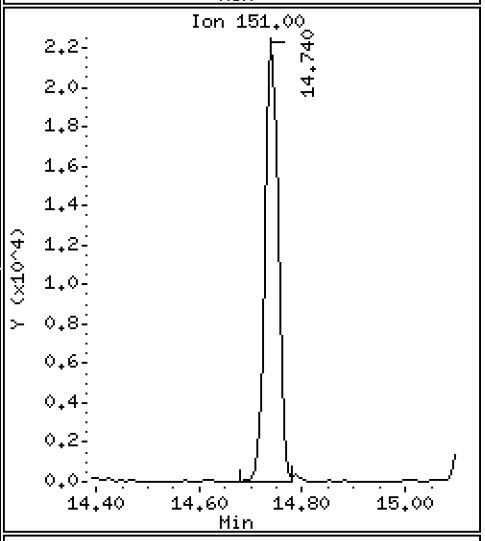
40 Acenaphthylene

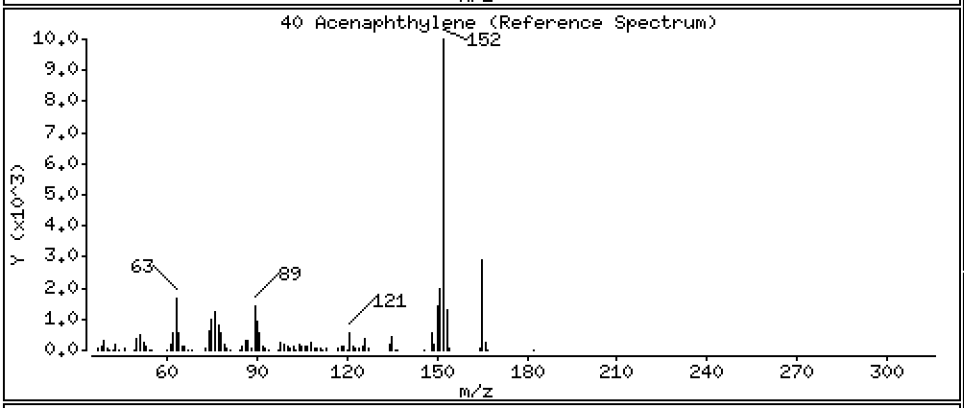
Concentration: 2.258 ug/mL

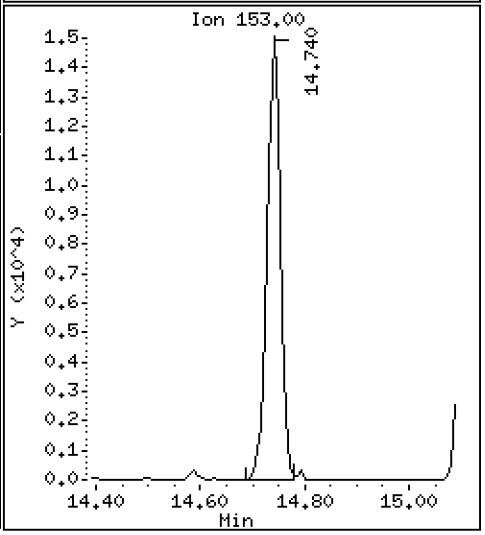


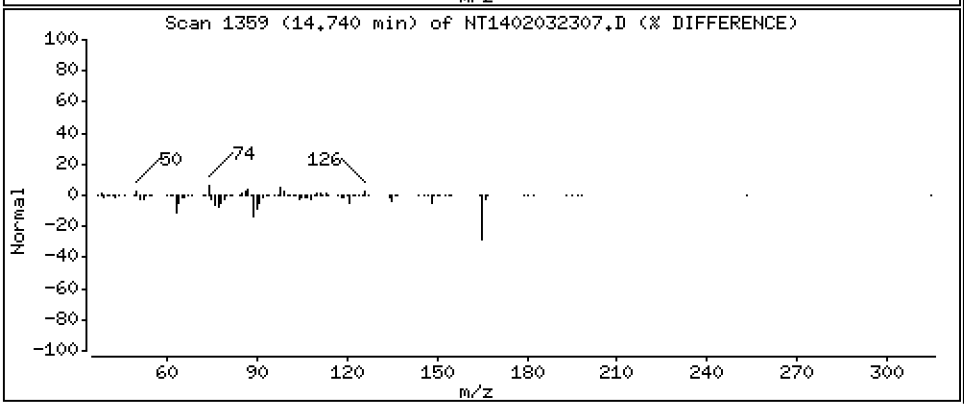












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

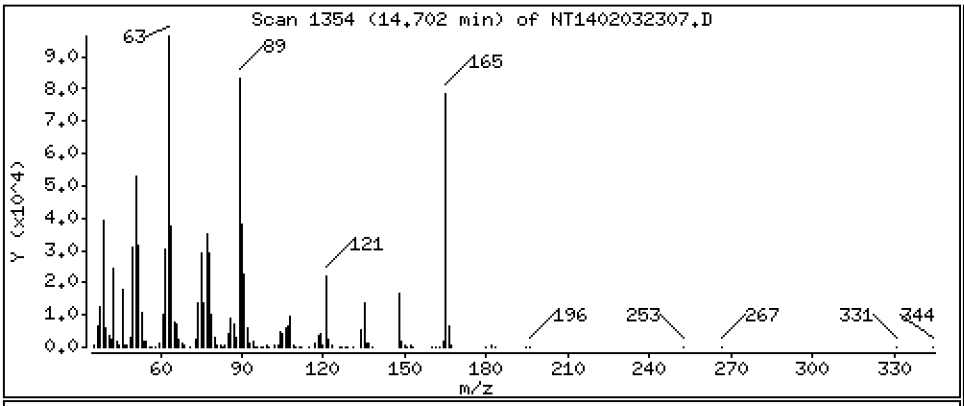
Operator: DSD

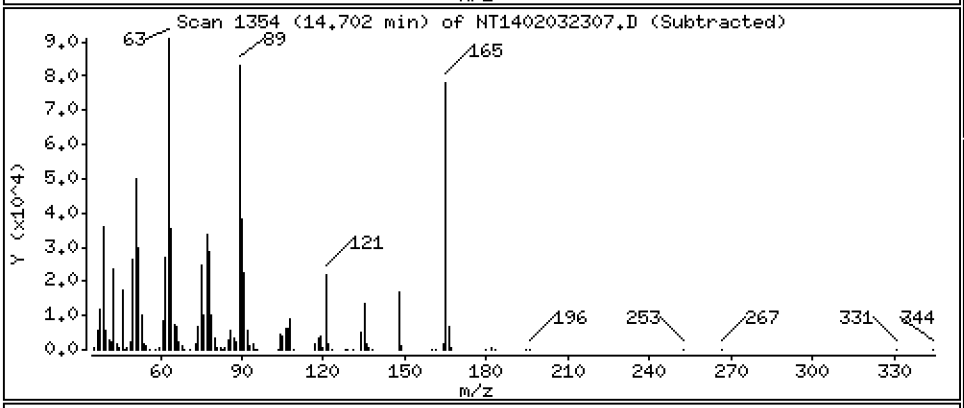
Column phase: ZB-5msi

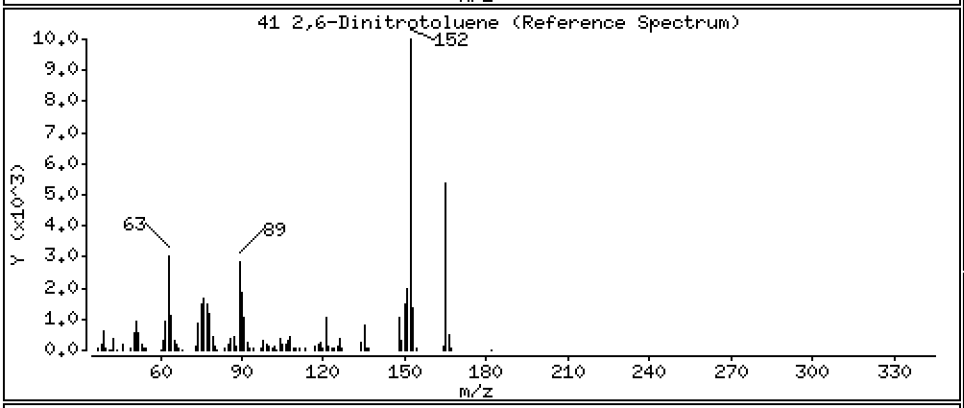
Column diameter: 0.25

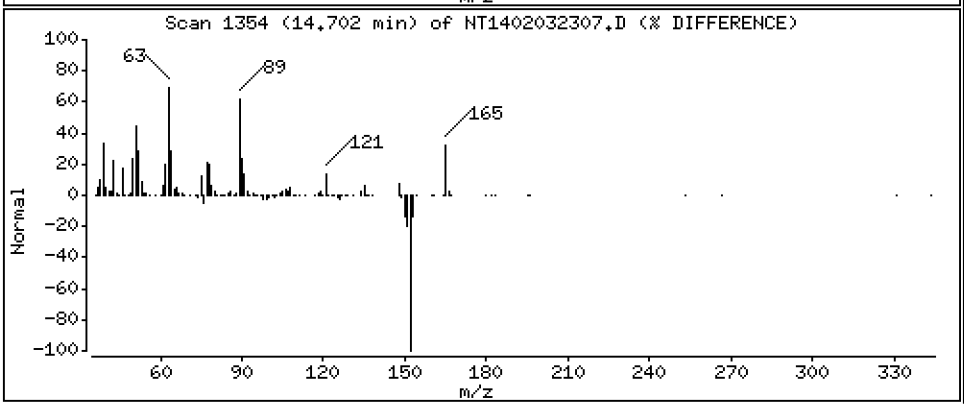
41 2,6-Dinitrotoluene

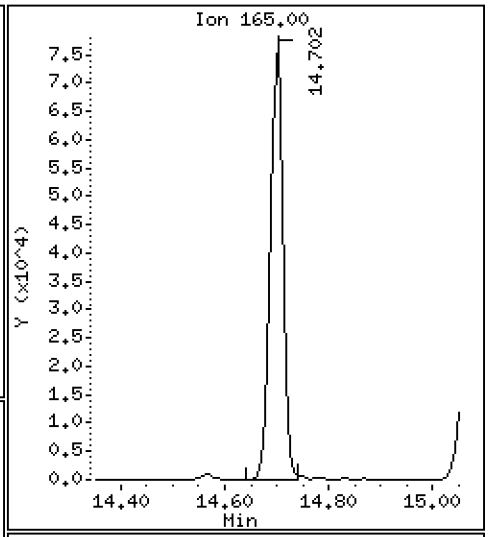
Concentration: 8.087 ug/mL

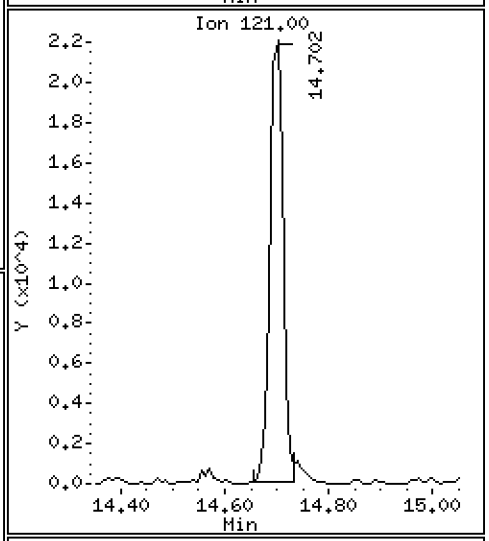


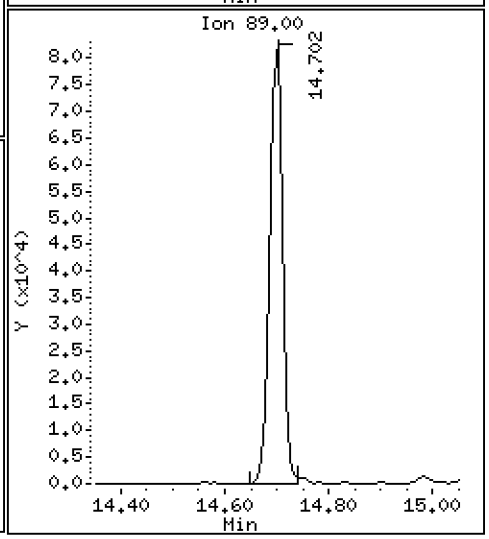












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

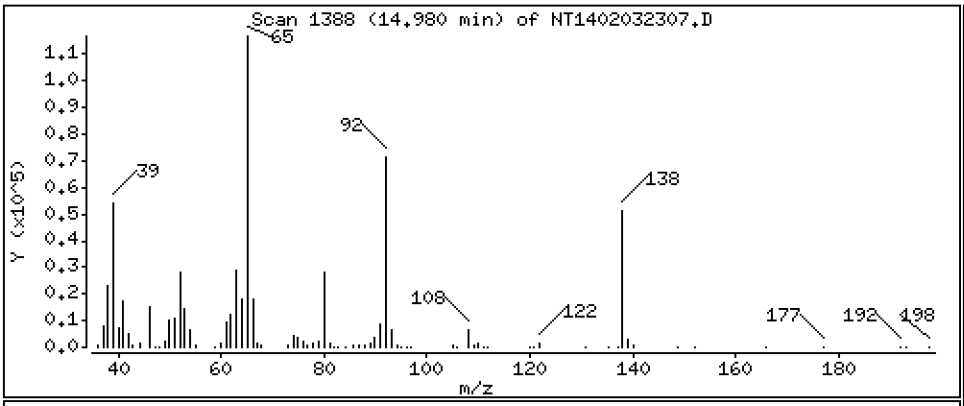
Operator: DSD

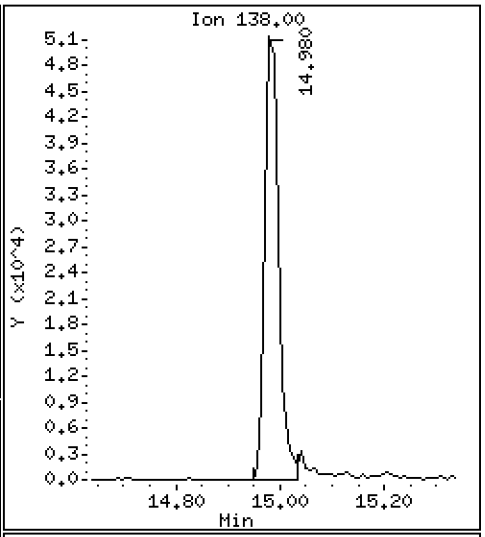
Column phase: ZB-5msi

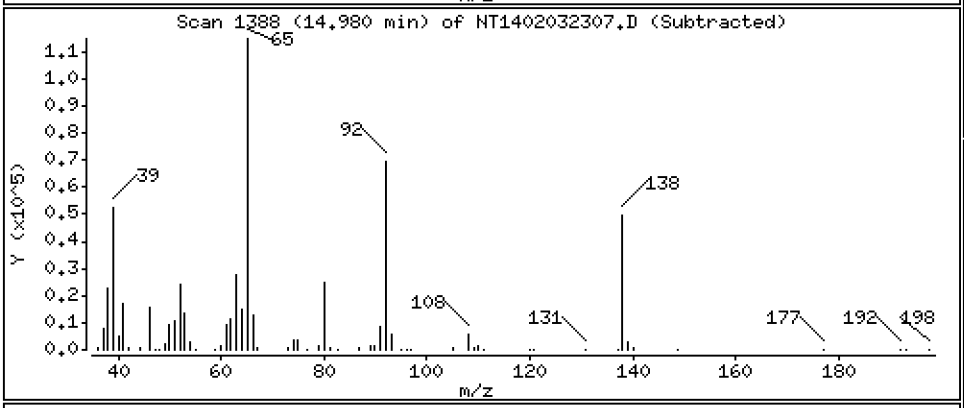
Column diameter: 0.25

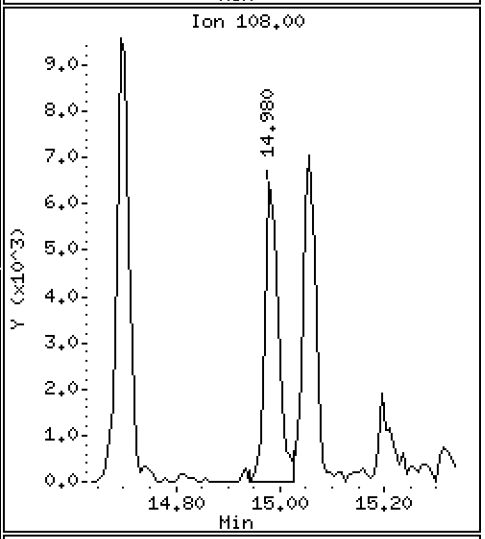
43 3-Nitroaniline

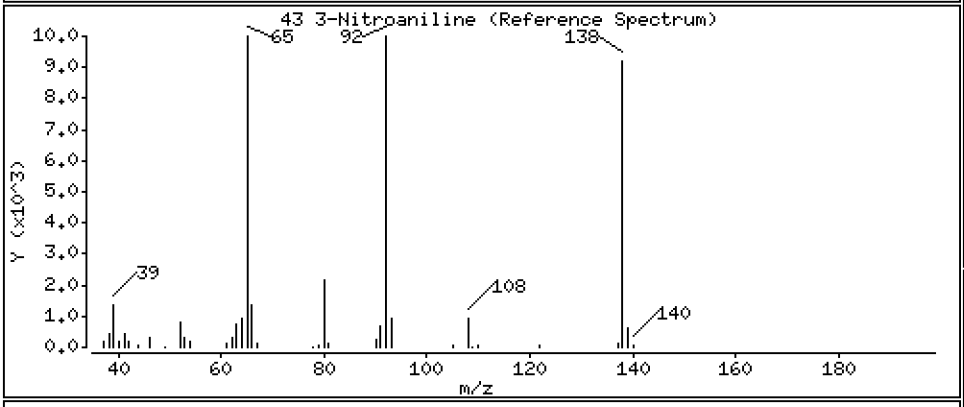
Concentration: 6.261 ug/mL

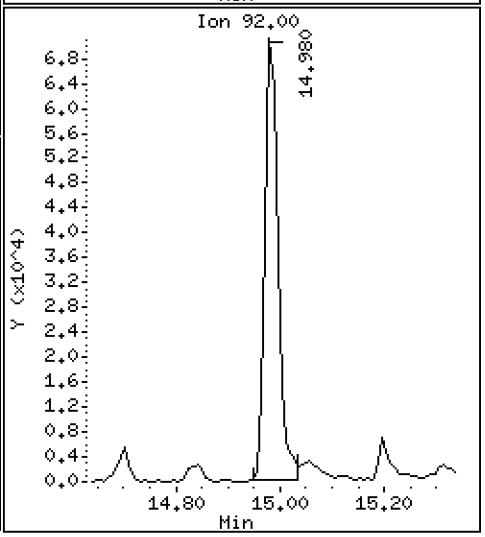


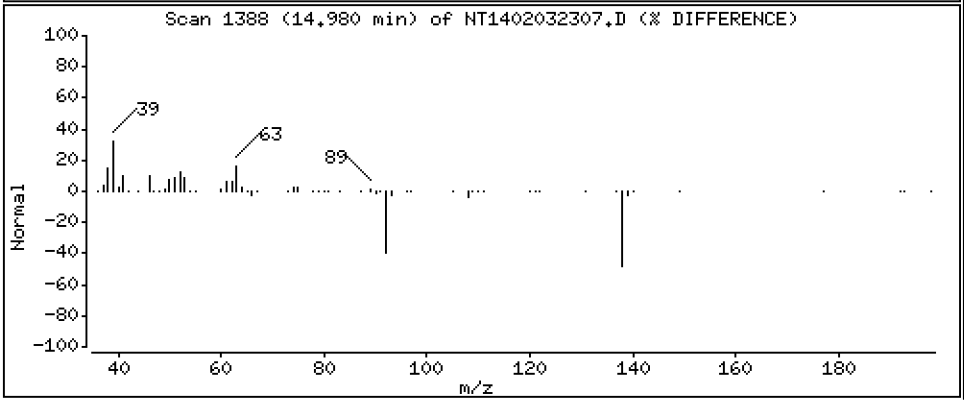












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

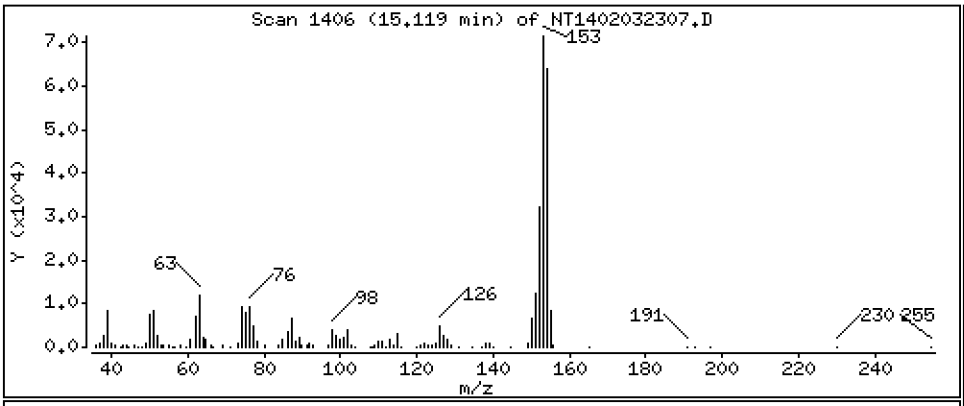
Operator: DSD

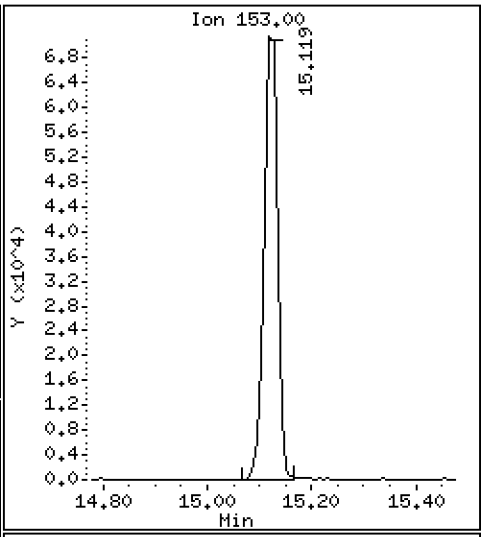
Column phase: ZB-5msi

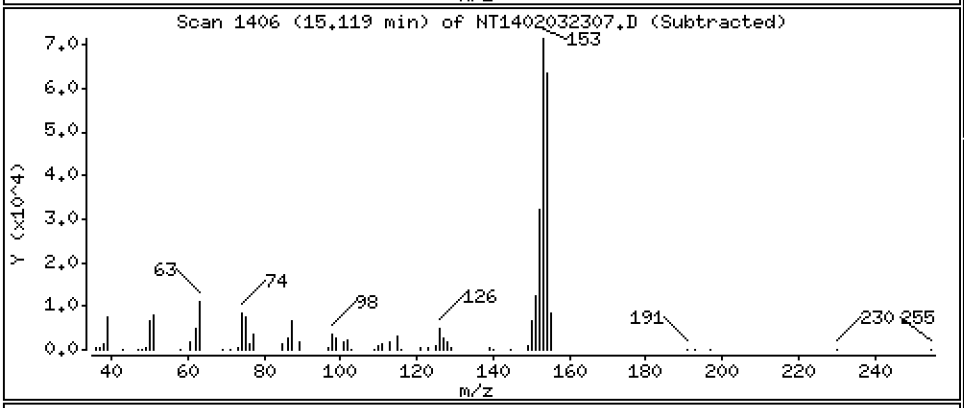
Column diameter: 0.25

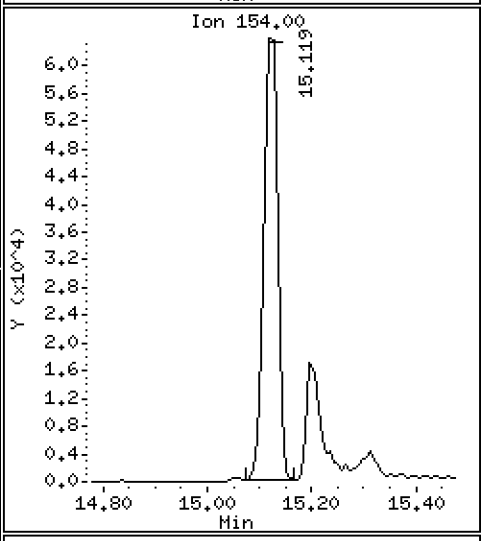
44 Acenaphthene

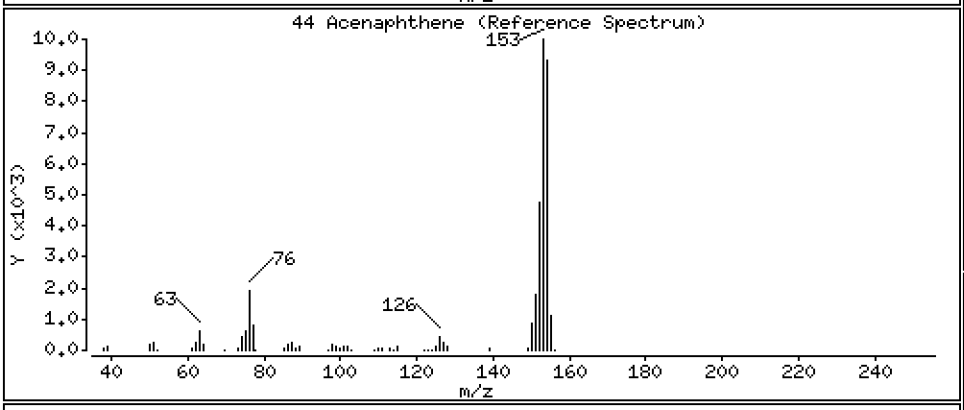
Concentration: 2.254 ug/mL

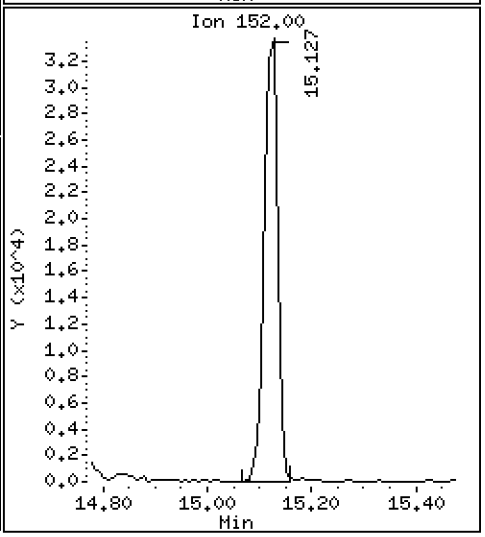


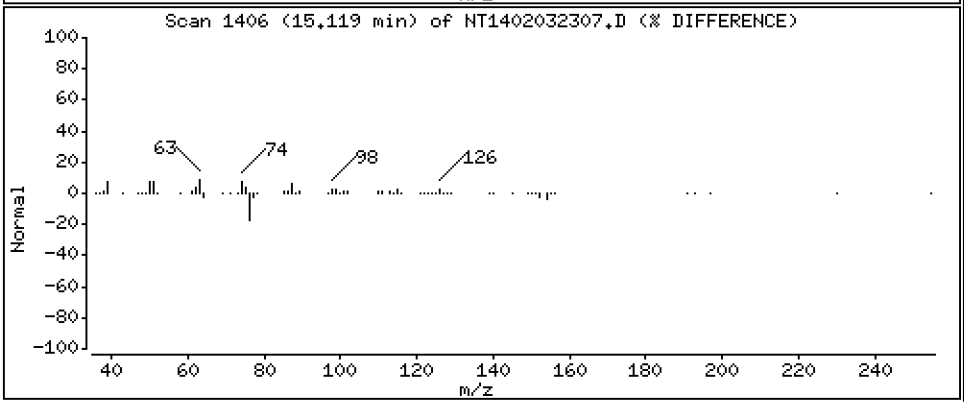












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

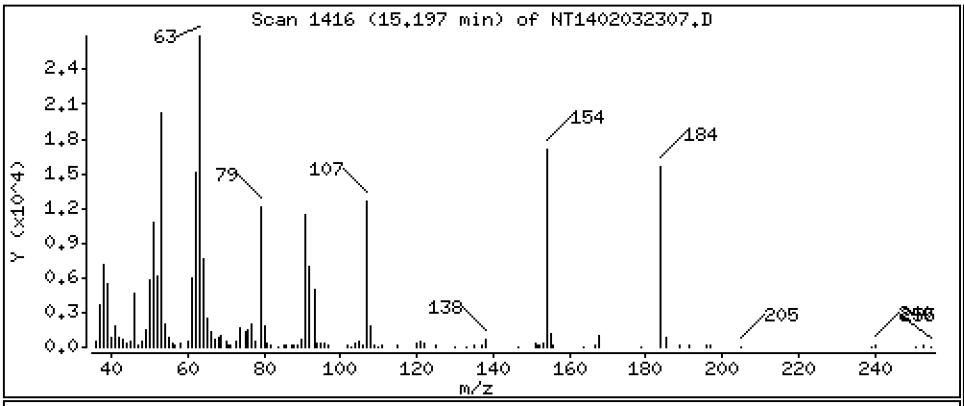
Operator: DSD

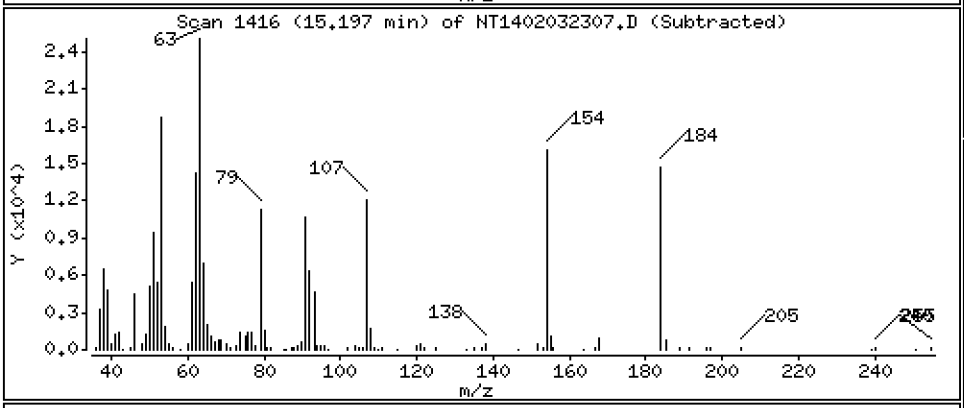
Column phase: ZB-5msi

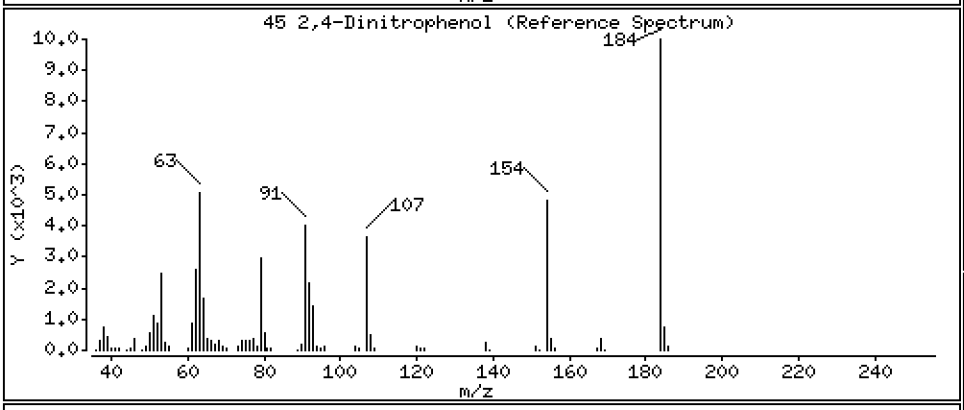
Column diameter: 0.25

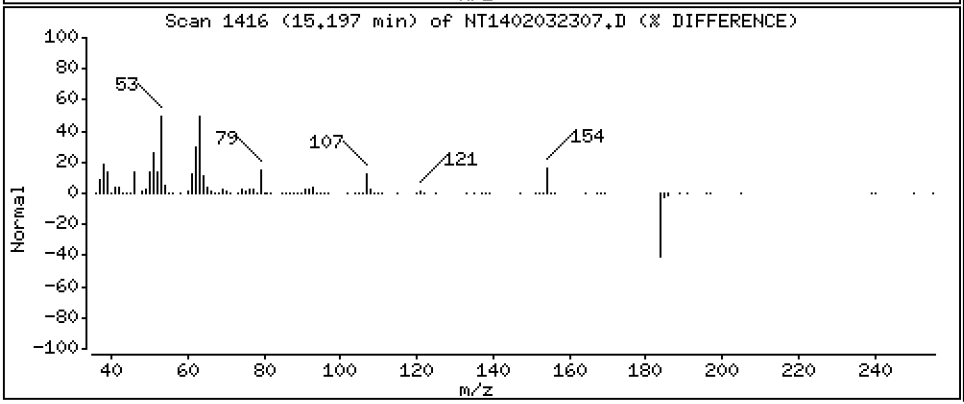
45 2,4-Dinitrophenol

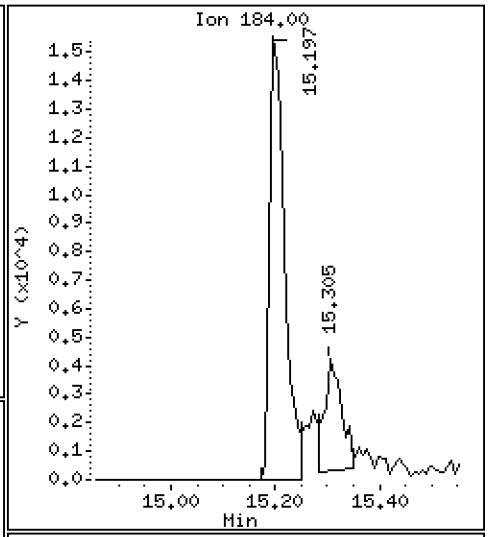
Concentration: 2.028 ug/mL

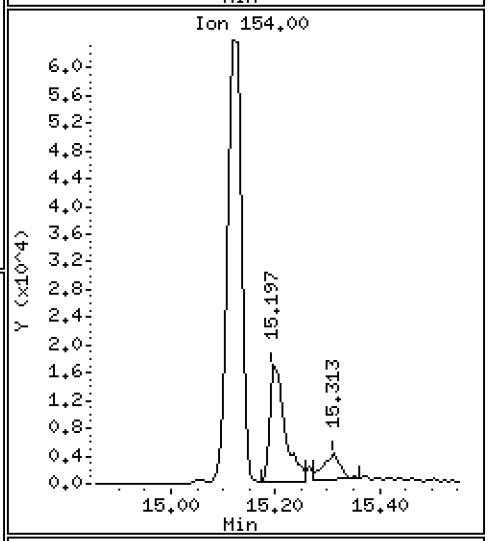


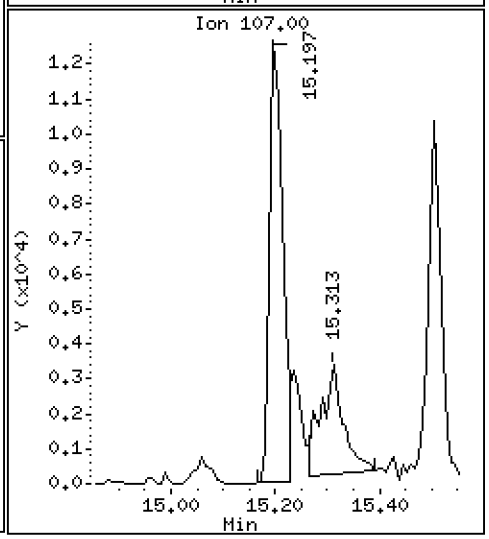












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

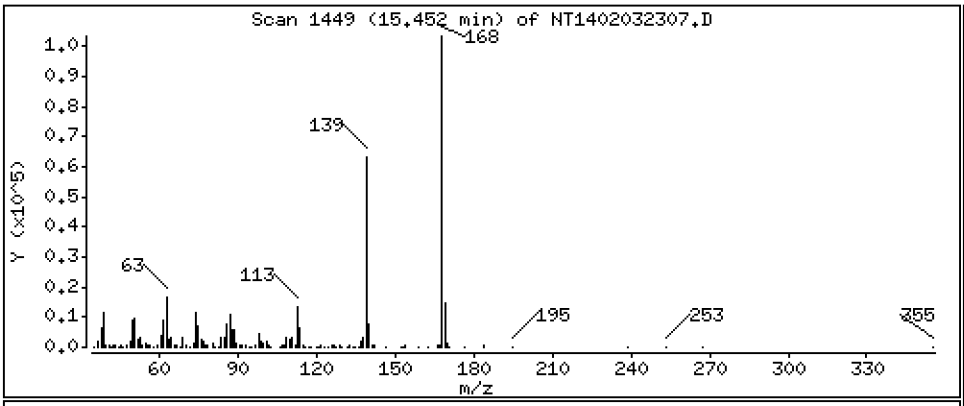
Operator: DSD

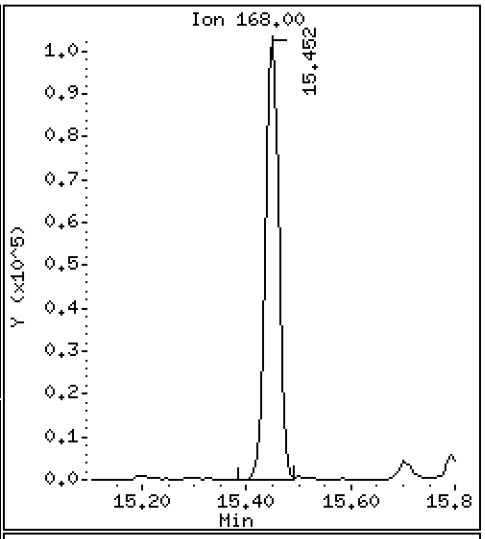
Column phase: ZB-5msi

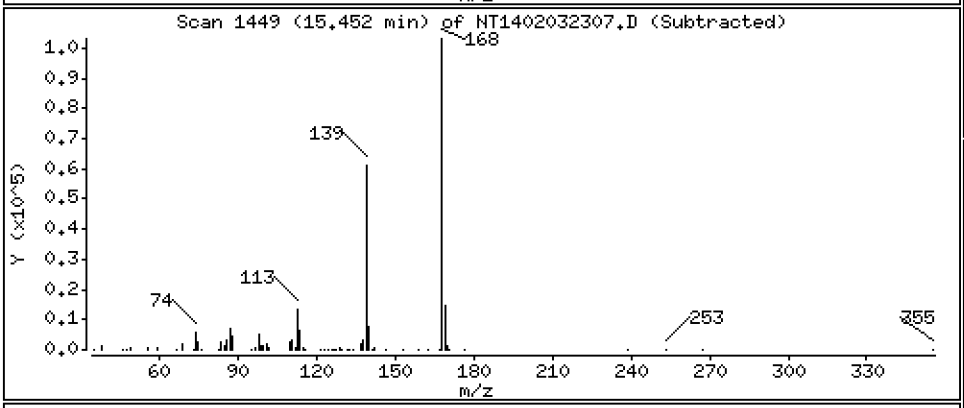
Column diameter: 0.25

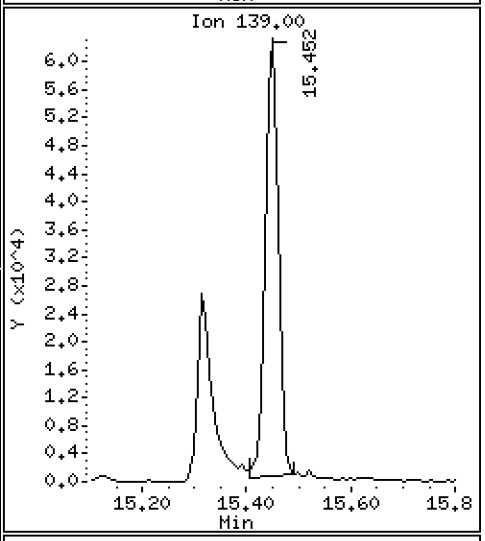
46 Dibenzofuran

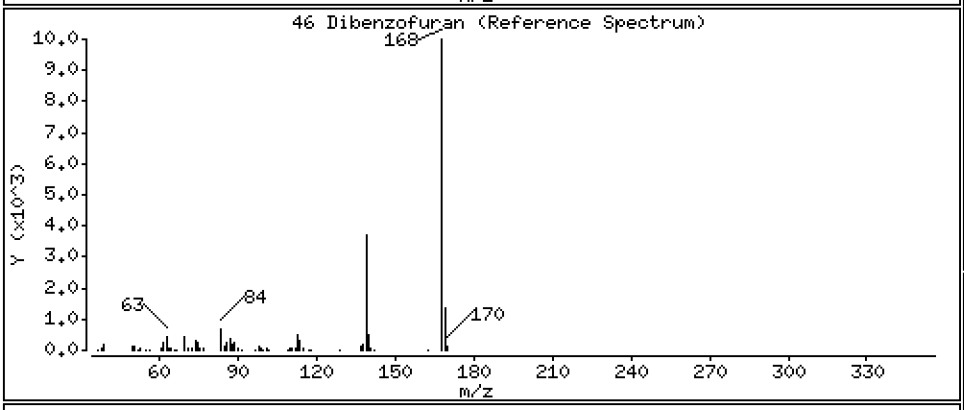
Concentration: 2.241 ug/mL

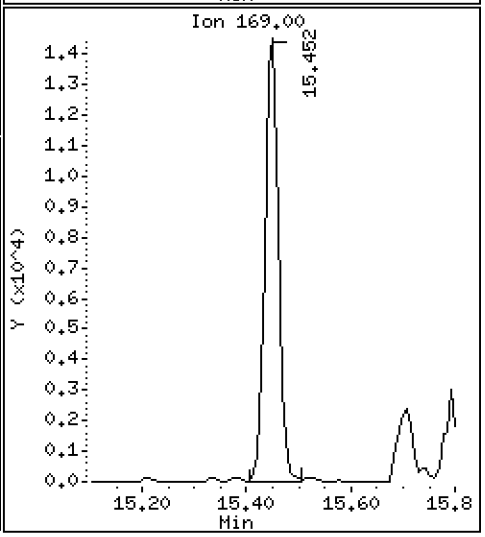


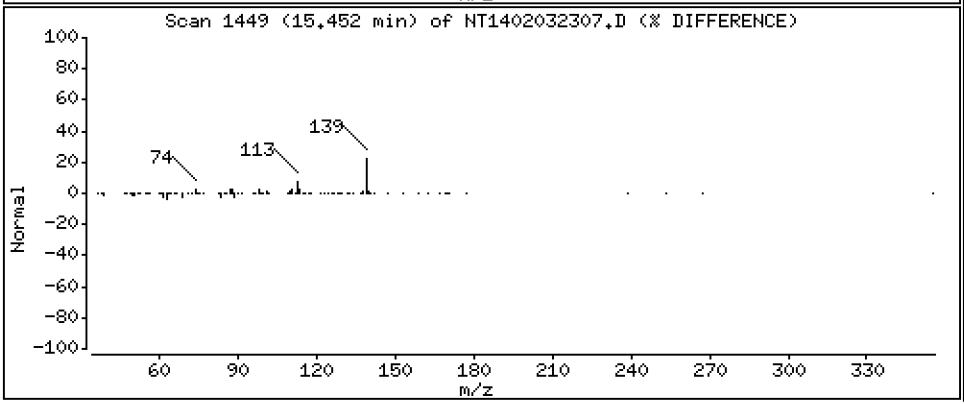












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

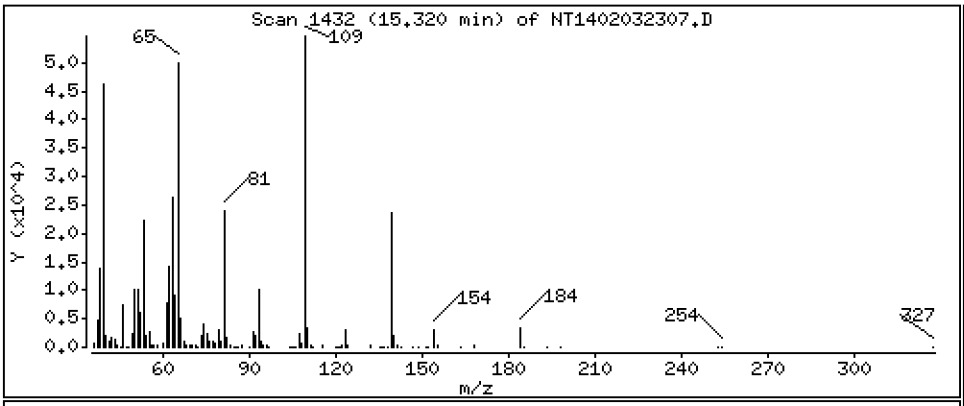
Operator: DSD

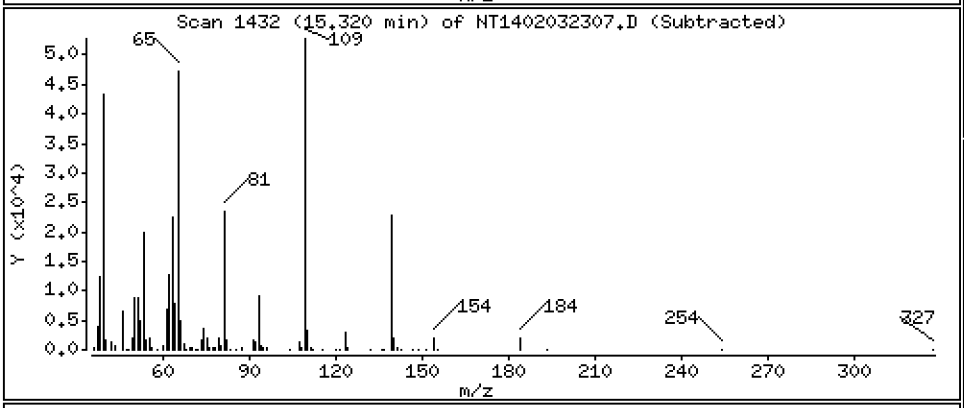
Column phase: ZB-5msi

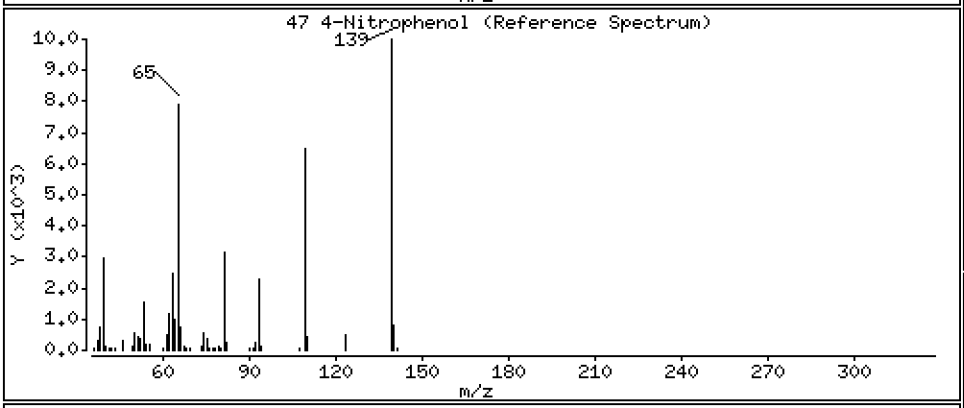
Column diameter: 0.25

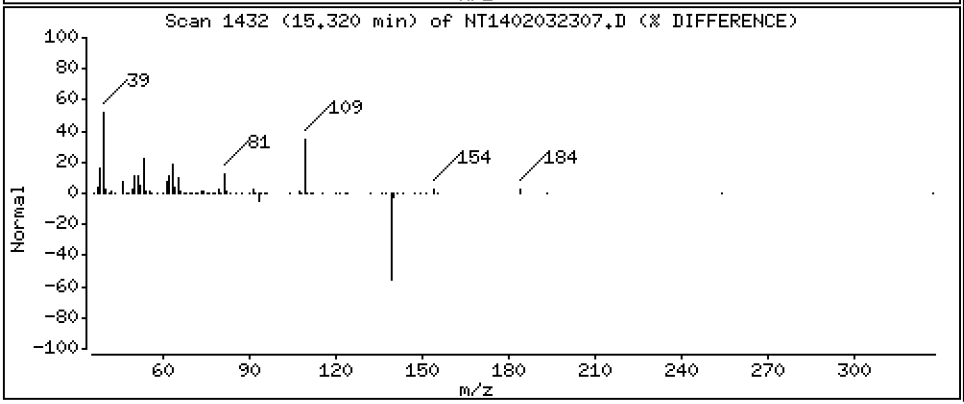
47 4-Nitrophenol

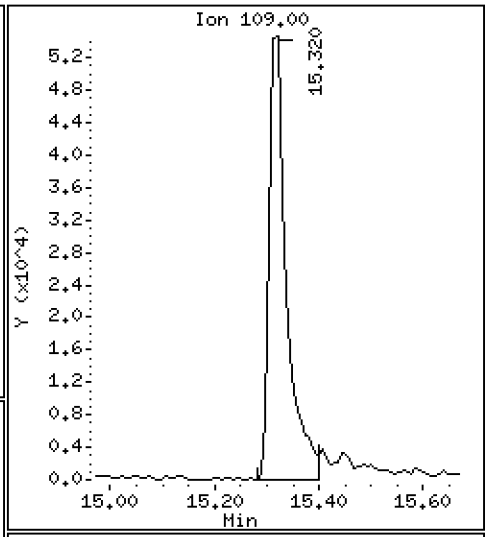
Concentration: 4.085 ug/mL

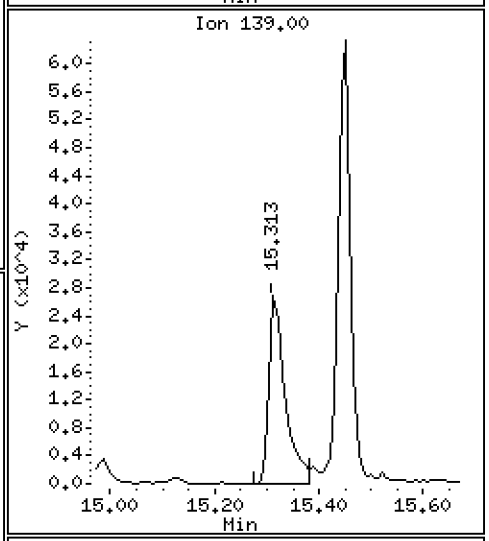


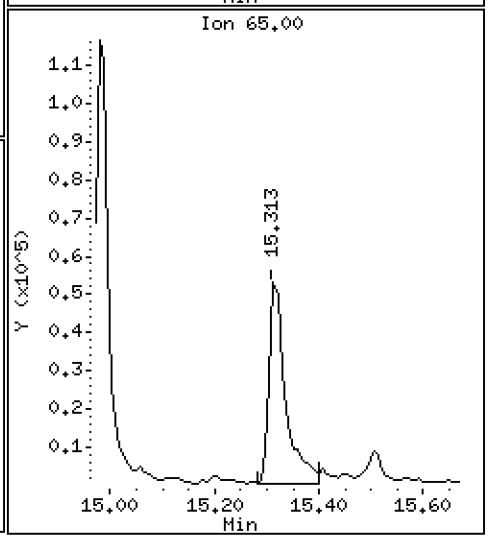












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

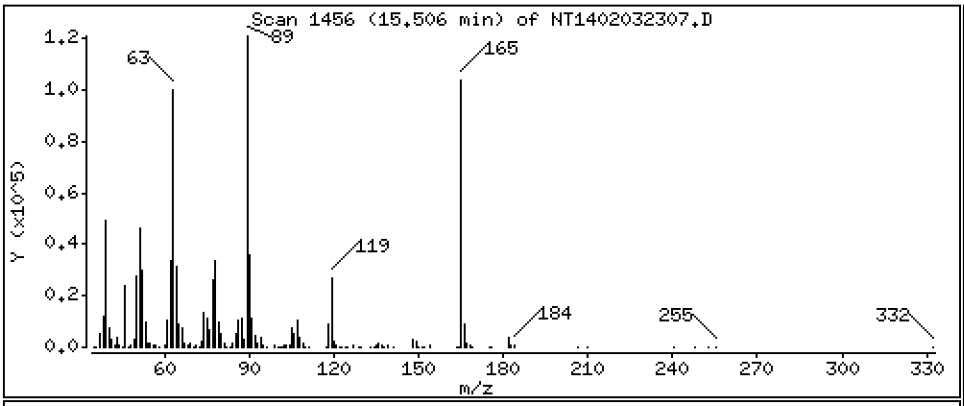
Operator: DSD

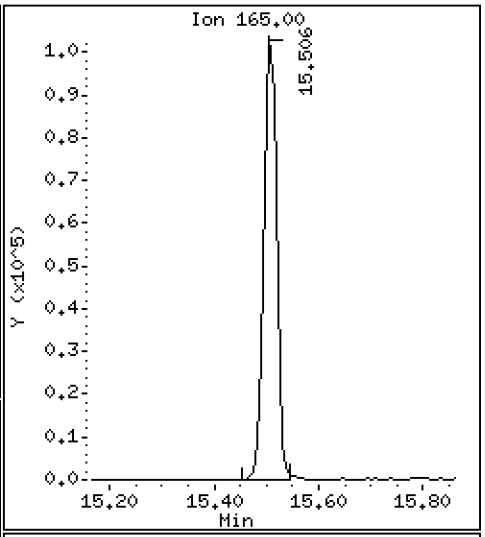
Column phase: ZB-5msi

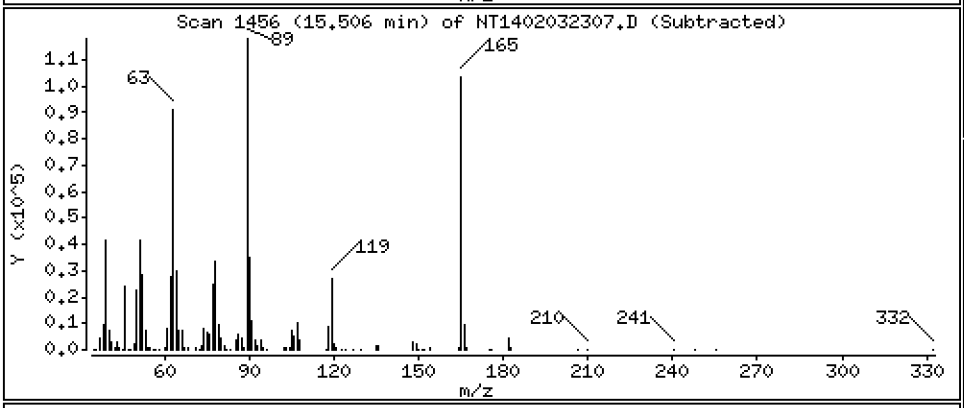
Column diameter: 0.25

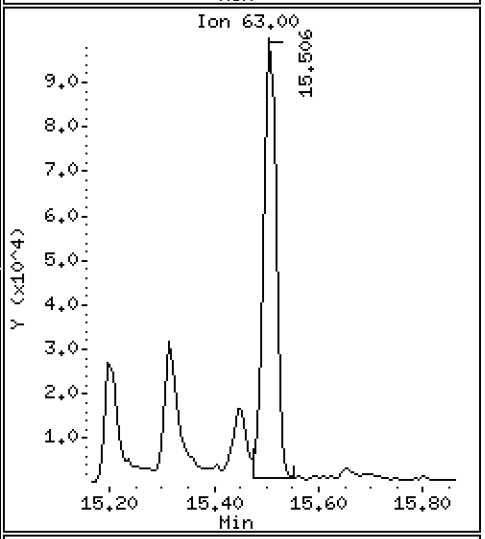
48 2,4-Dinitrotoluene

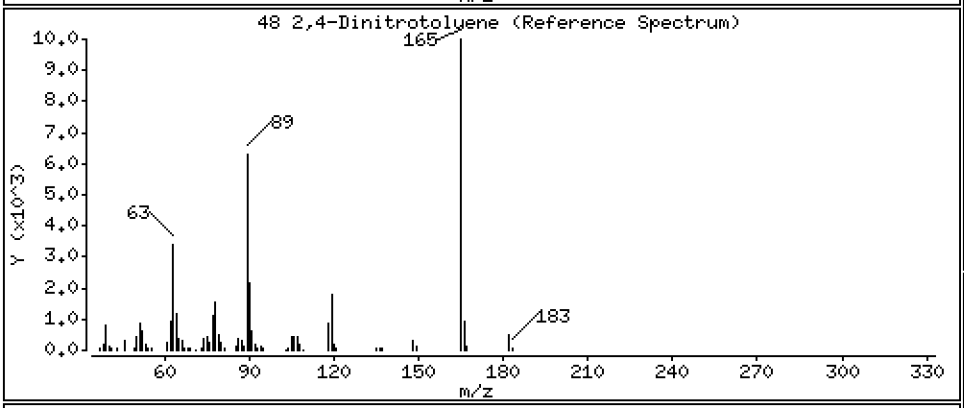
Concentration: 7.966 ug/mL

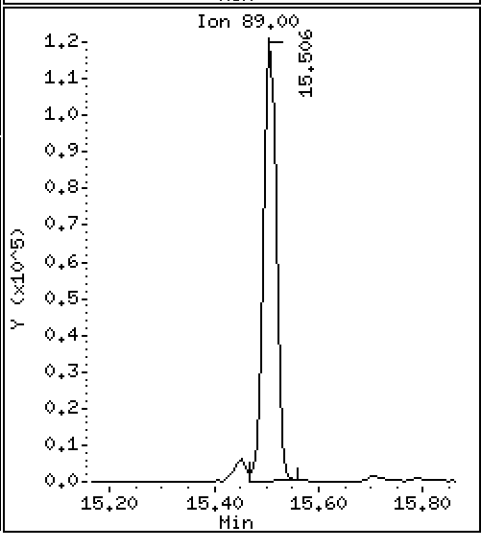


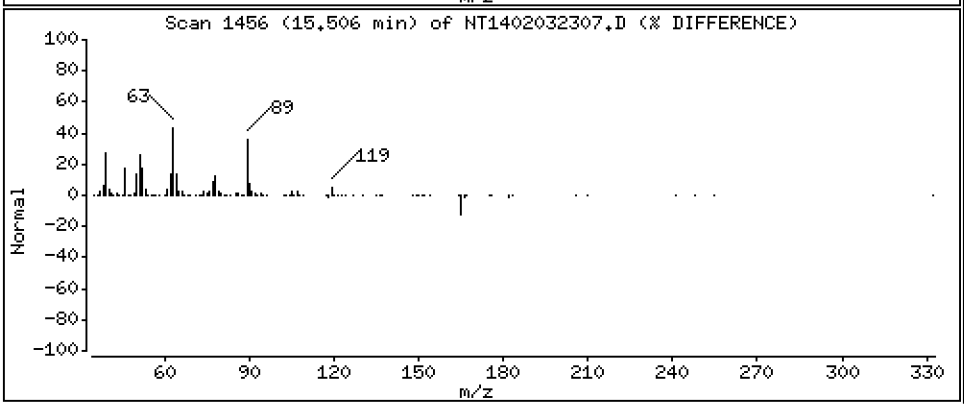












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

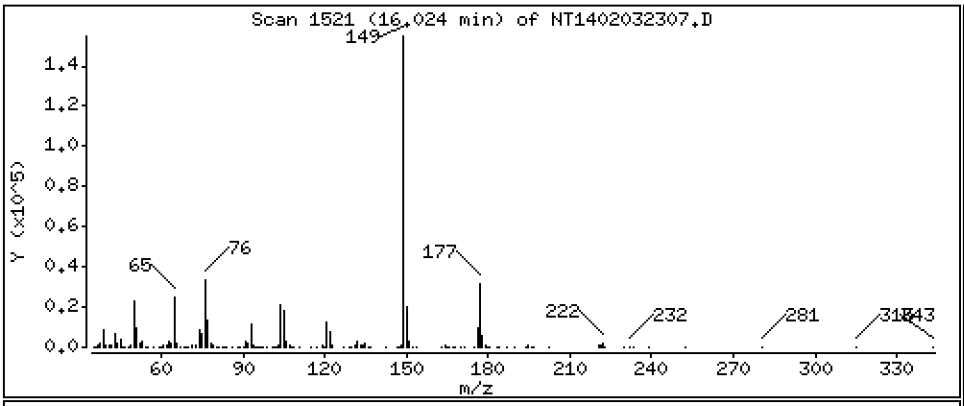
Operator: DSD

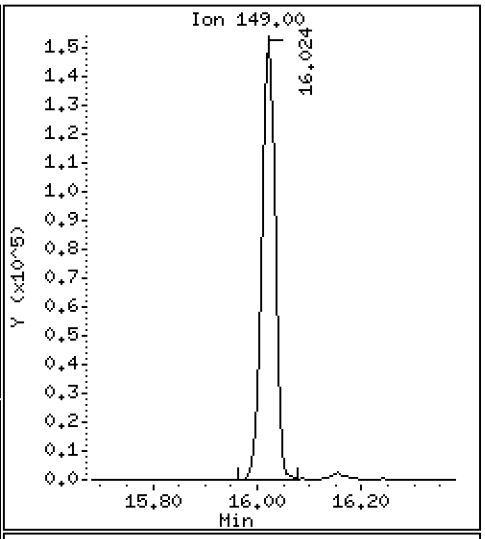
Column phase: ZB-5msi

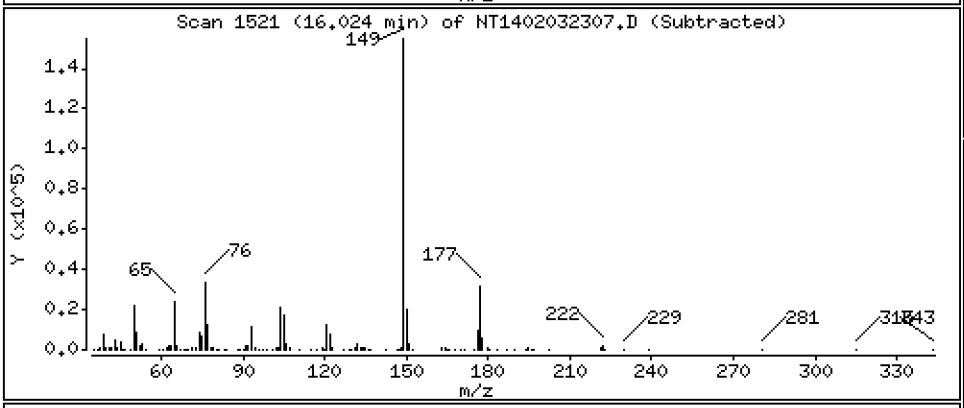
Column diameter: 0.25

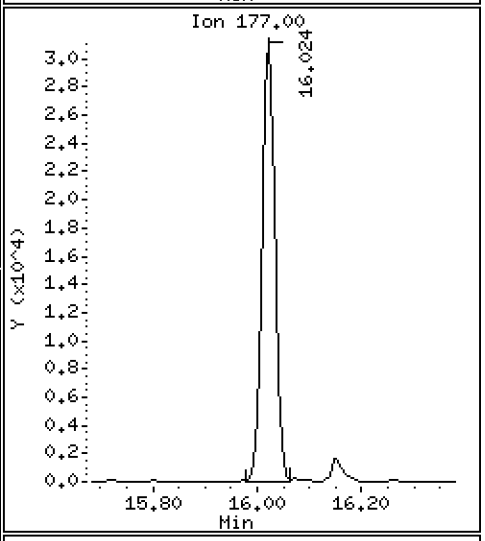
50 Diethylphthalate

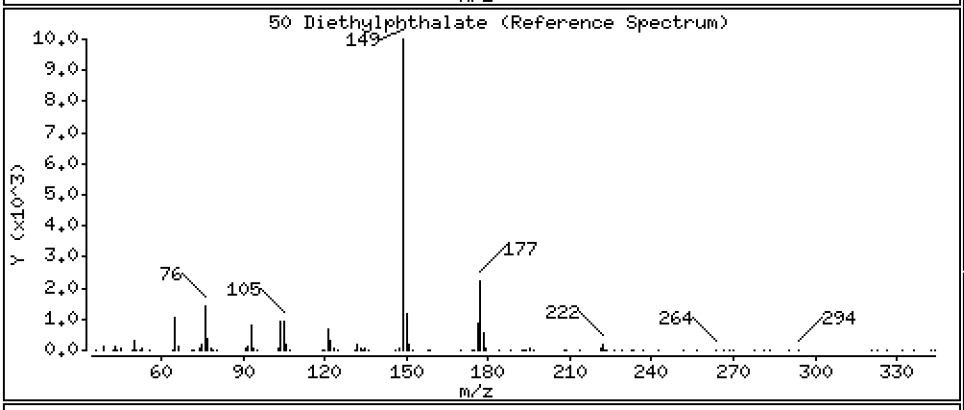
Concentration: 2.706 ug/mL

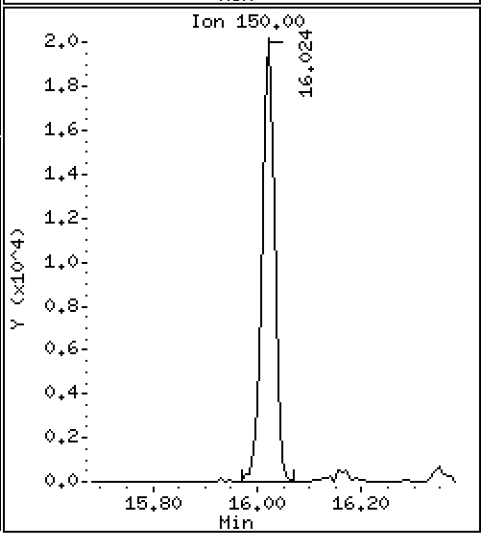


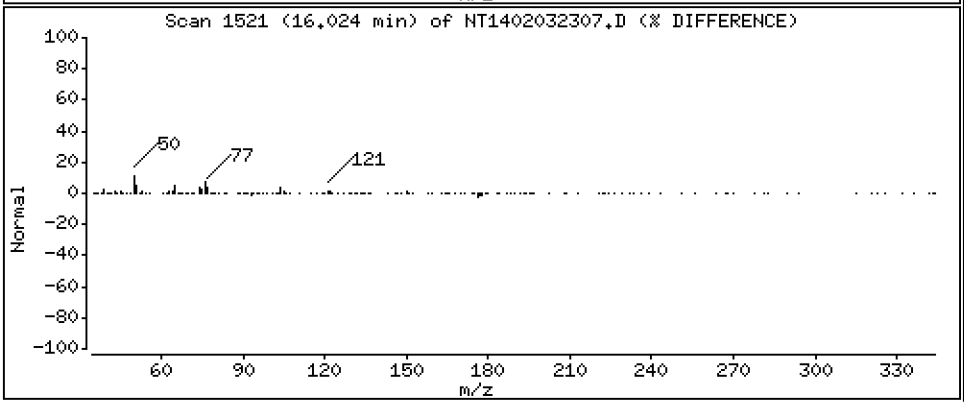












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

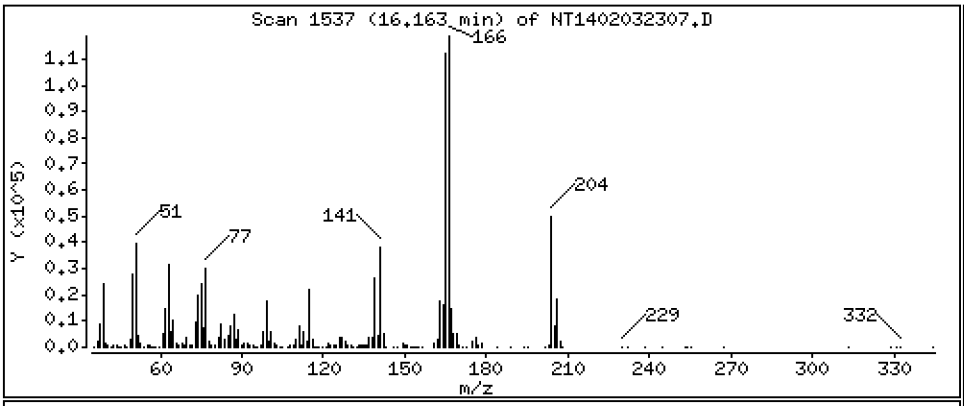
Operator: DSD

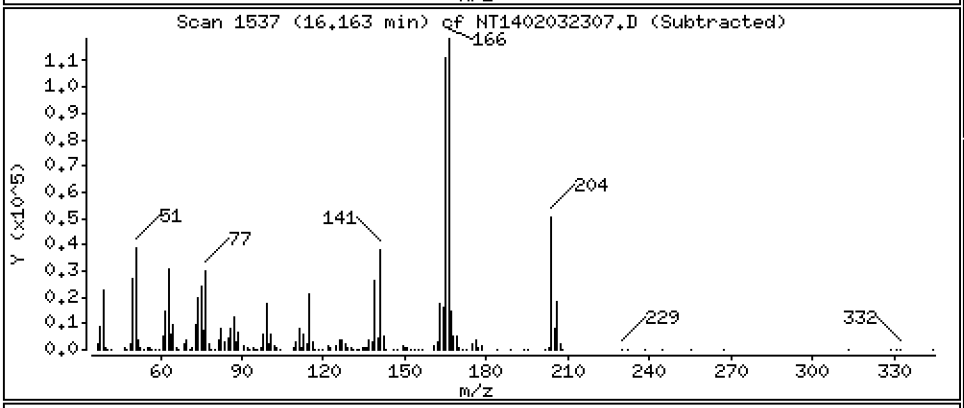
Column phase: ZB-5msi

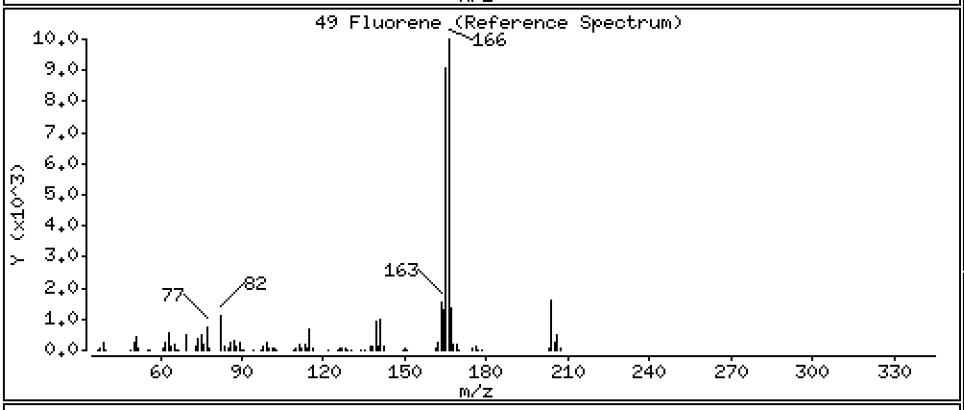
Column diameter: 0.25

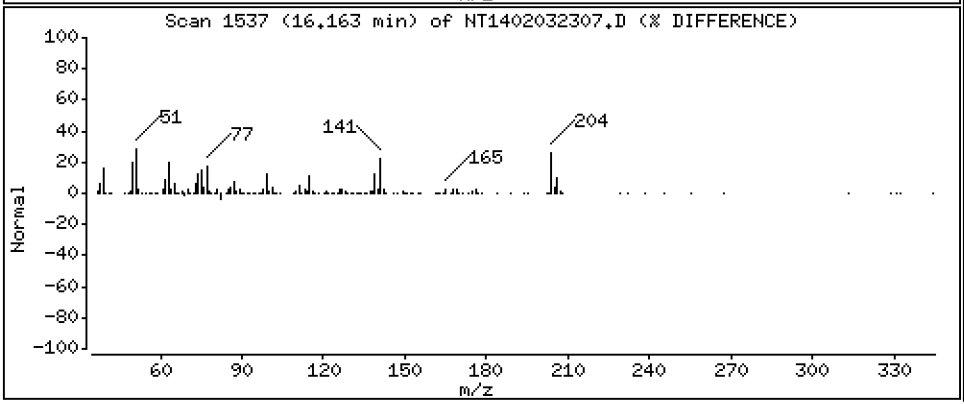
49 Fluorene

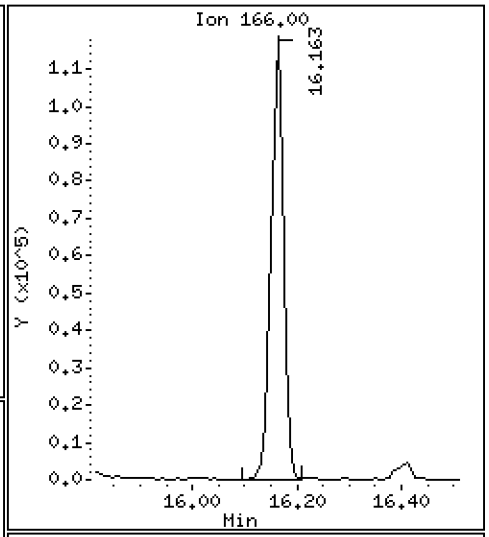
Concentration: 2.241 ug/mL

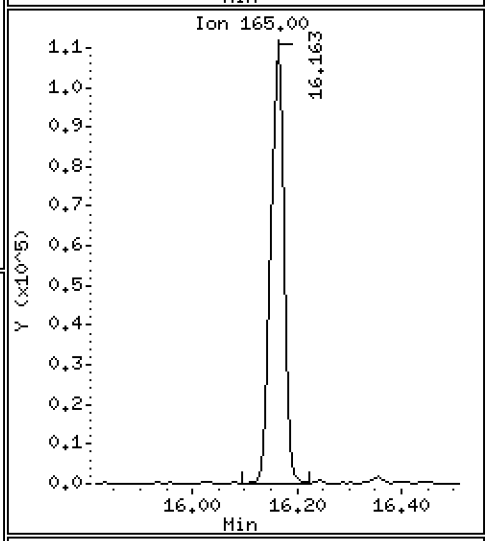


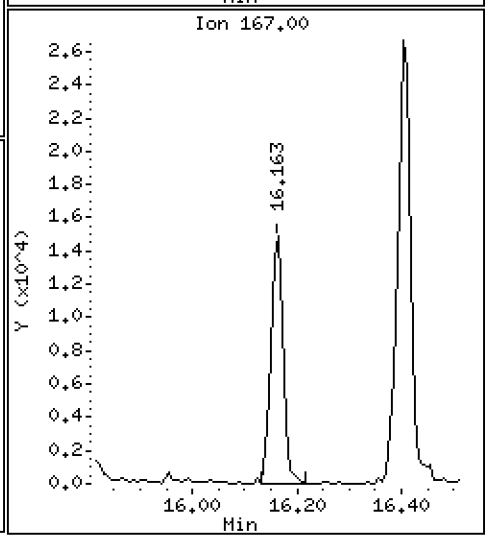












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

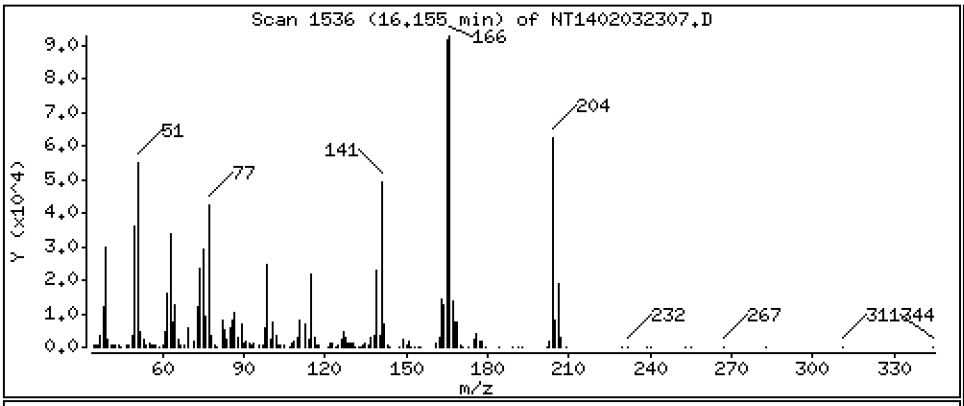
Operator: DSD

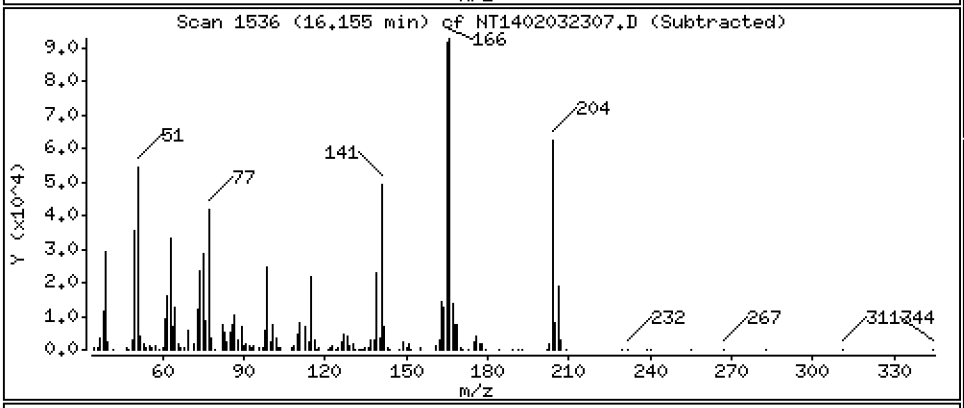
Column phase: ZB-5msi

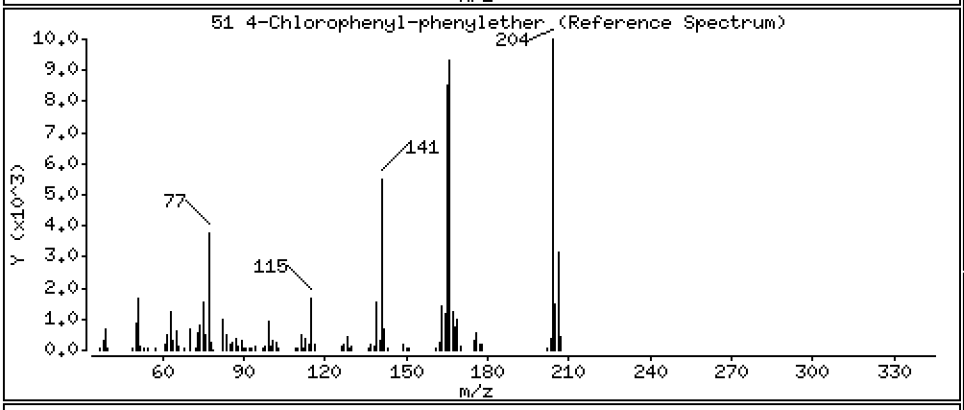
Column diameter: 0.25

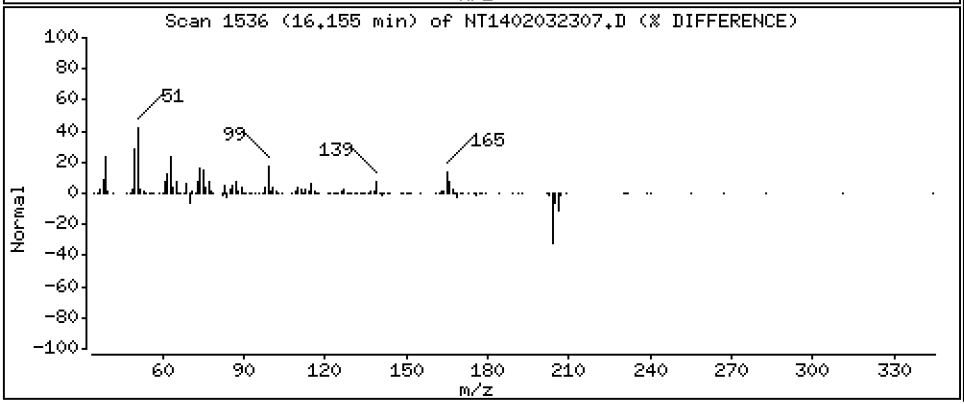
51 4-Chlorophenyl-phenylether

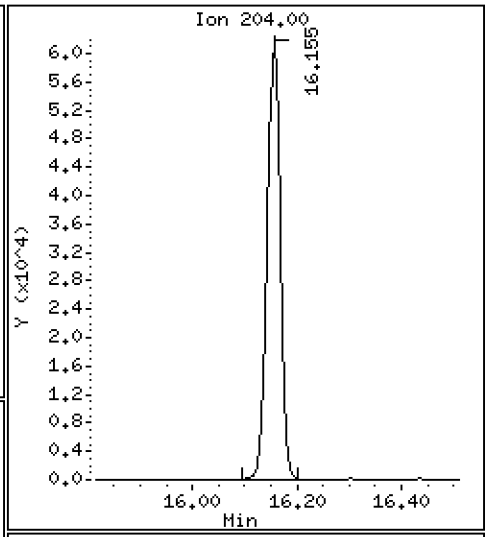
Concentration: 2.159 ug/mL

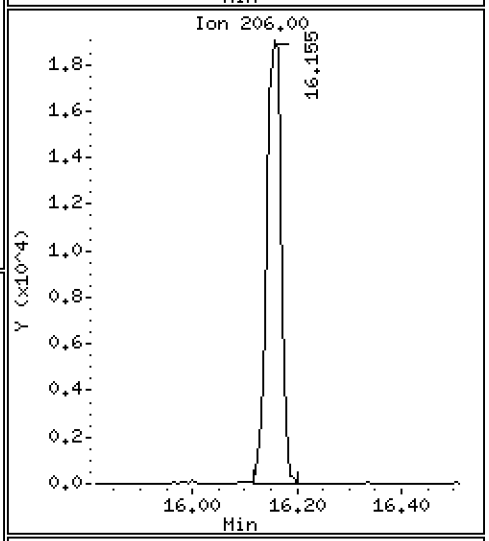


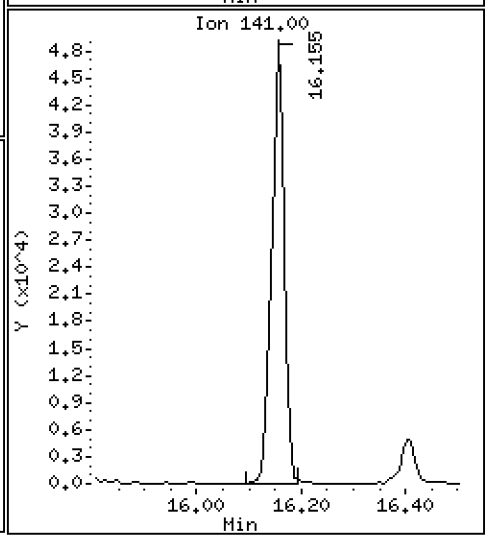












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

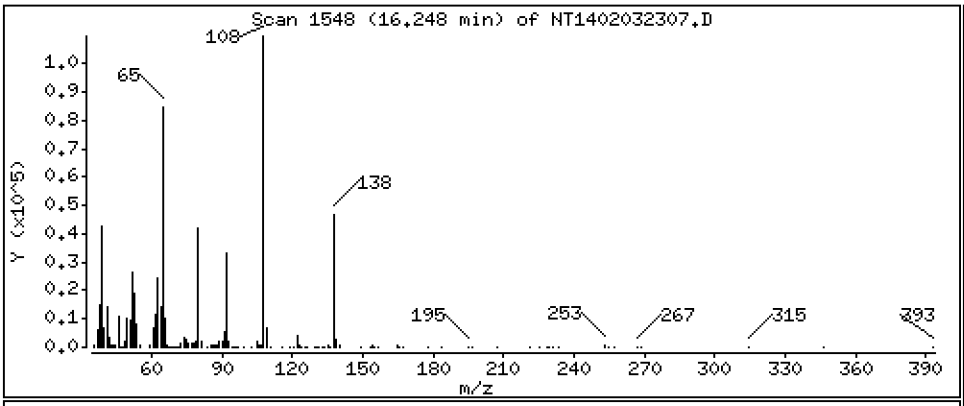
Operator: DSD

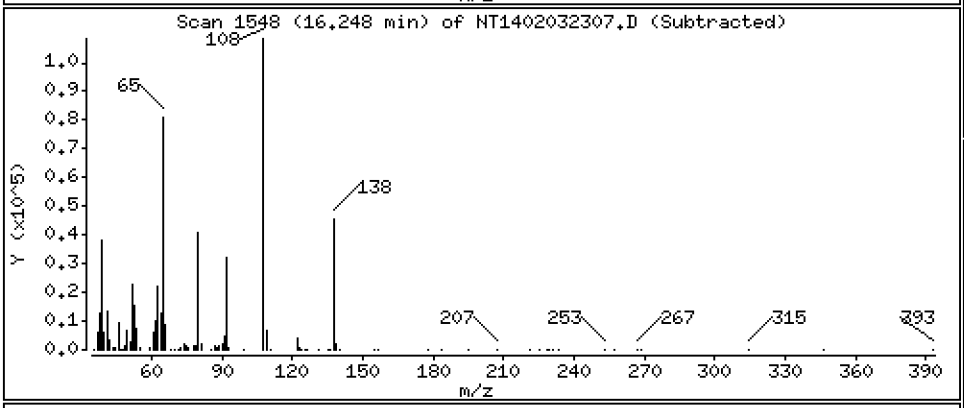
Column phase: ZB-5msi

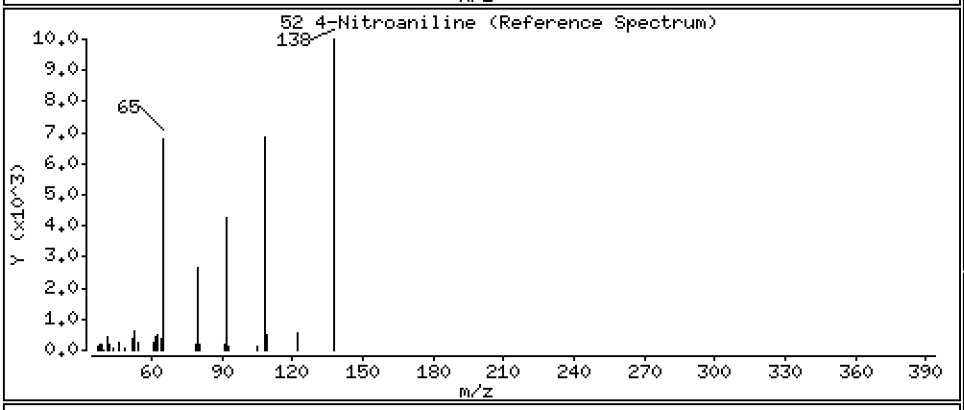
Column diameter: 0.25

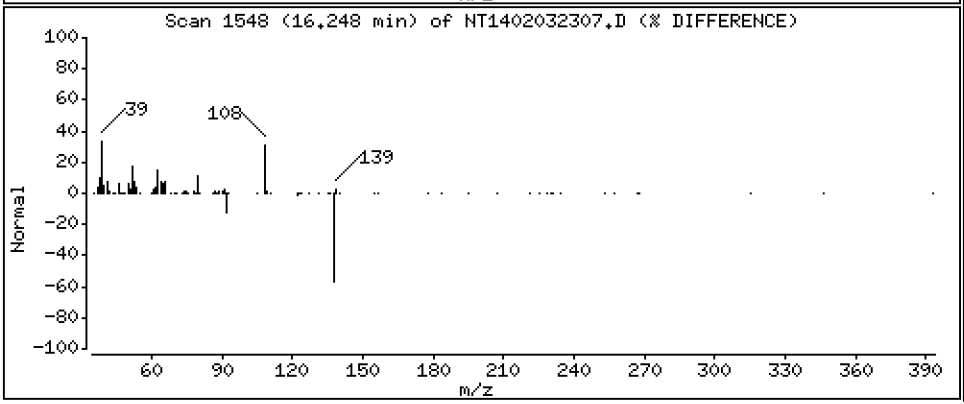
52 4-Nitroaniline

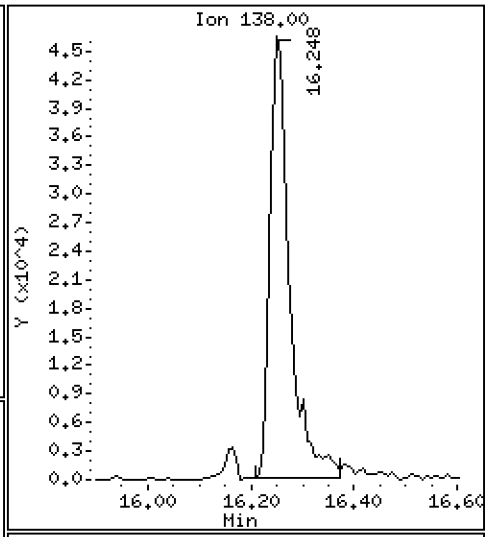
Concentration: 6.893 ug/mL

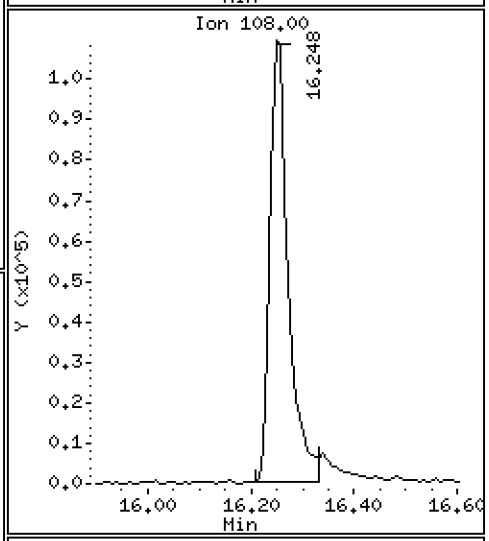


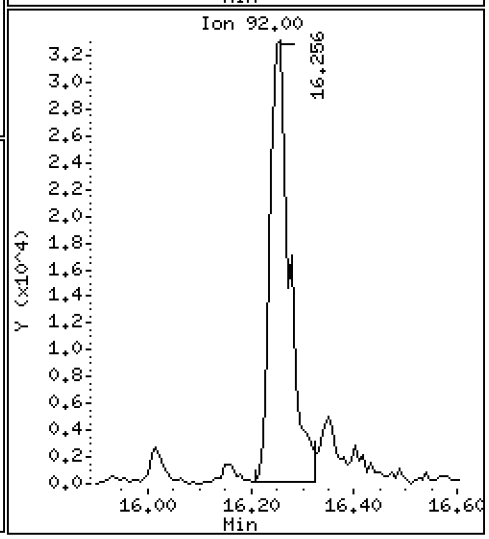












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

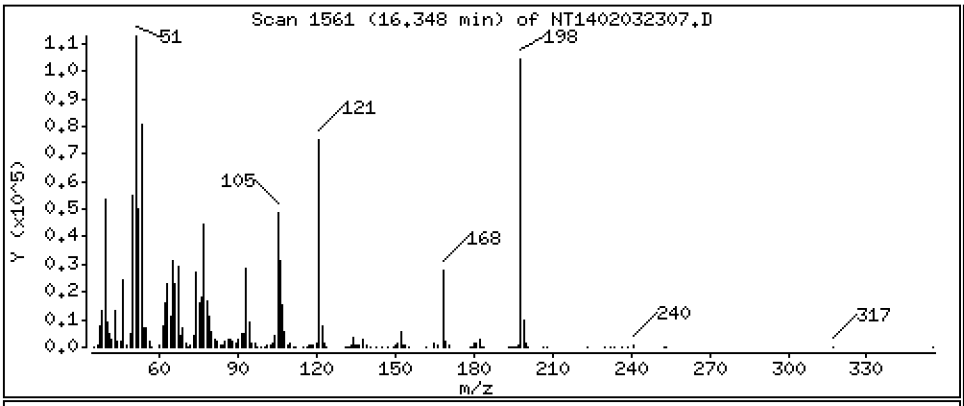
Operator: DSD

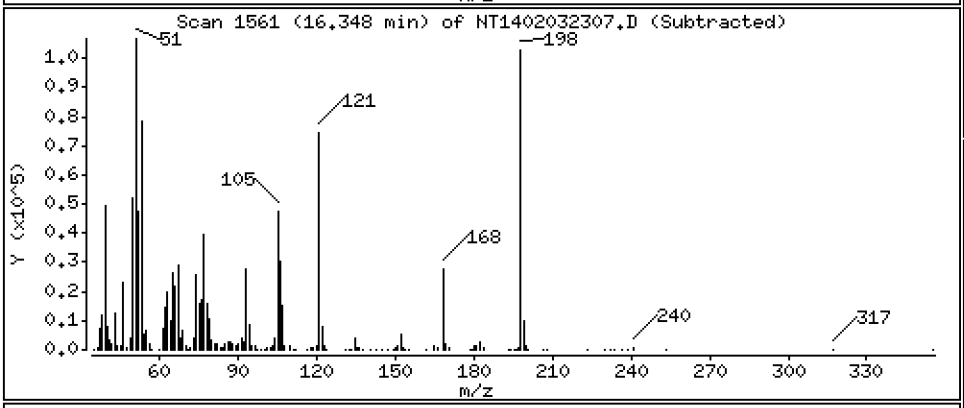
Column phase: ZB-5msi

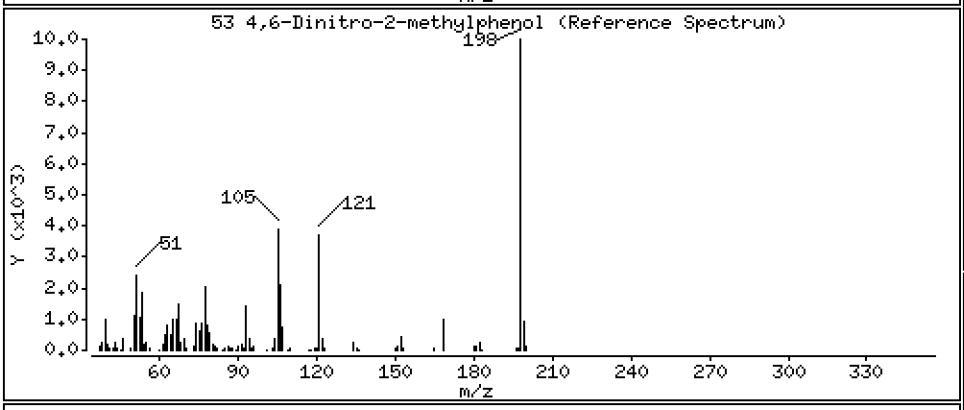
Column diameter: 0.25

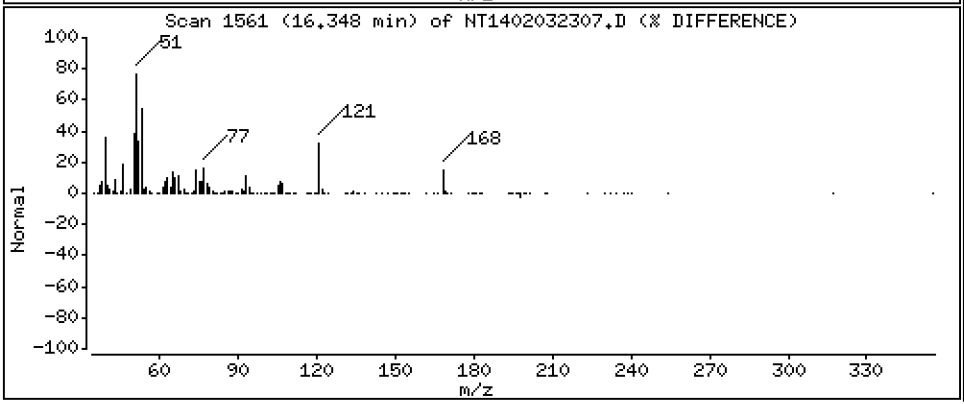
53 4,6-Dinitro-2-methylphenol

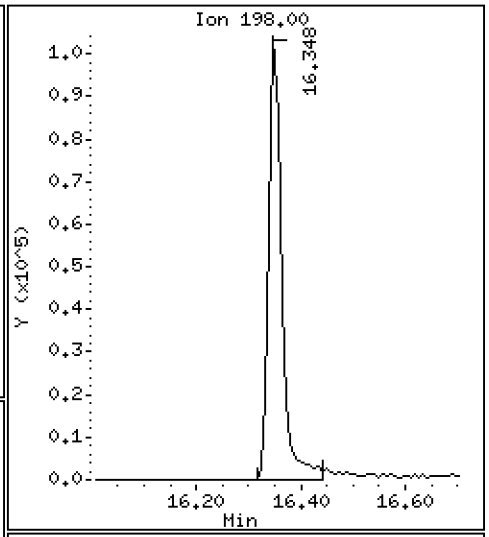
Concentration: 8.165 ug/mL

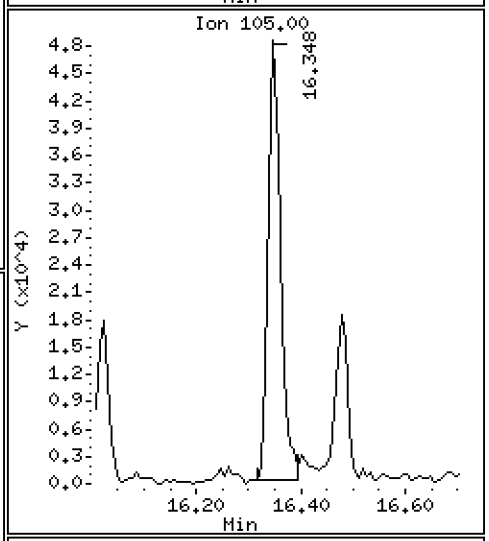


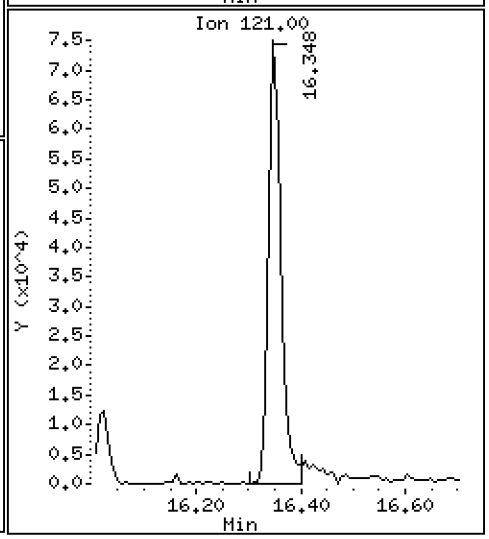












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

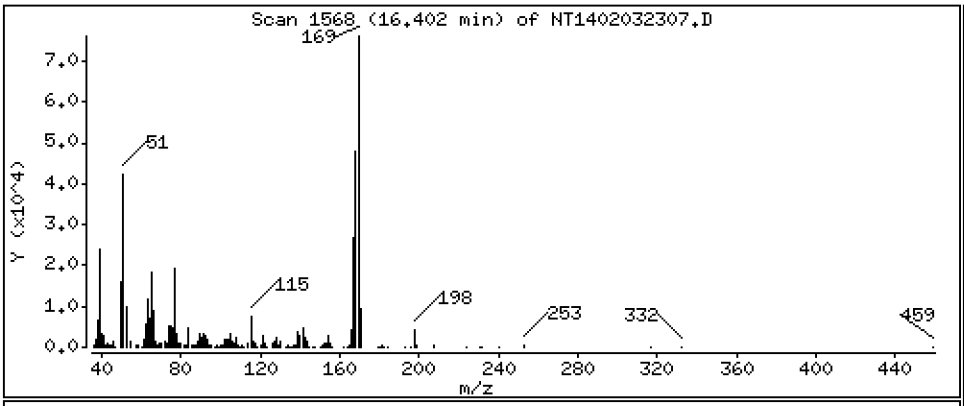
Operator: DSD

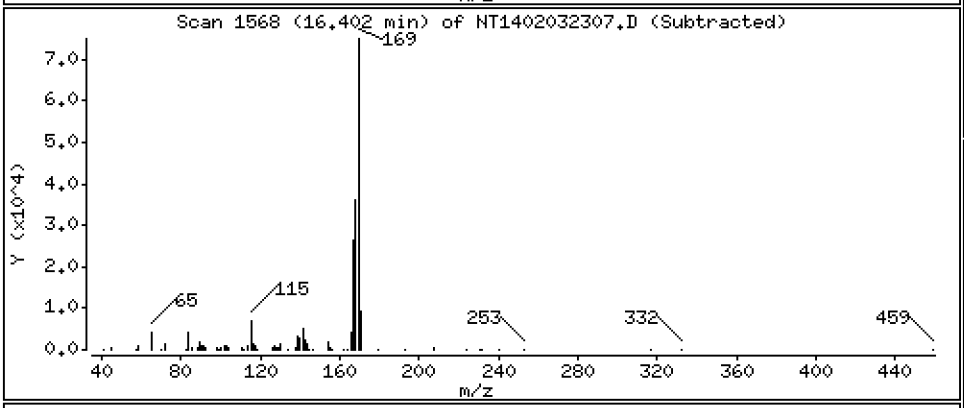
Column phase: ZB-5msi

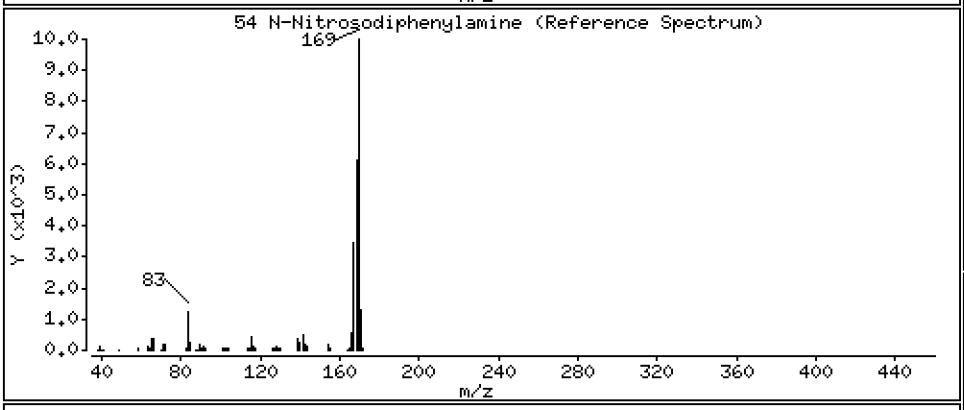
Column diameter: 0.25

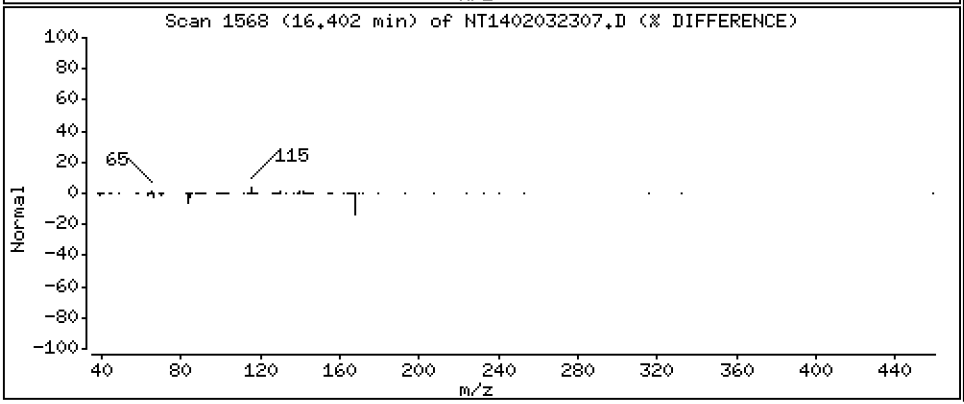
54 N-Nitrosodiphenylamine

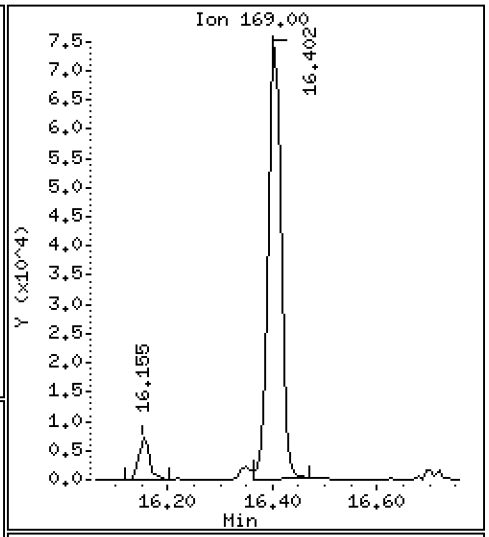
Concentration: 2.061 ug/mL

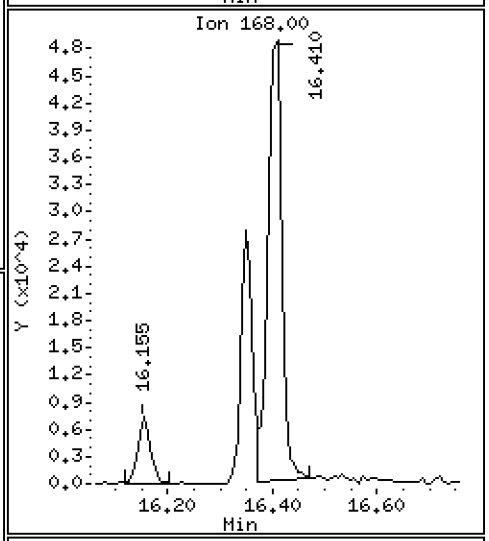


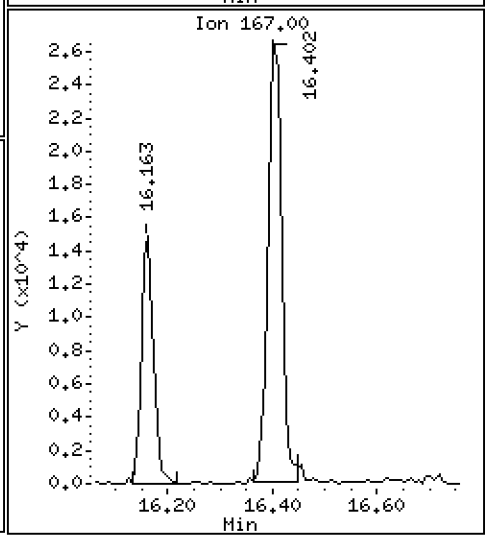












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

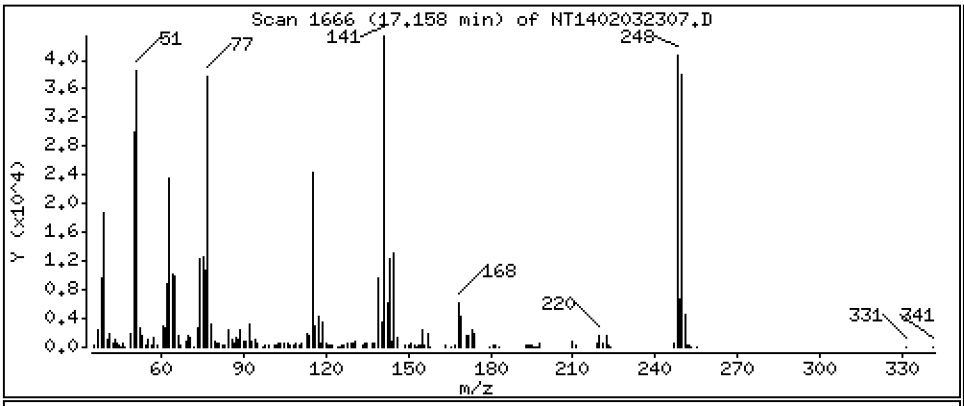
Operator: DSD

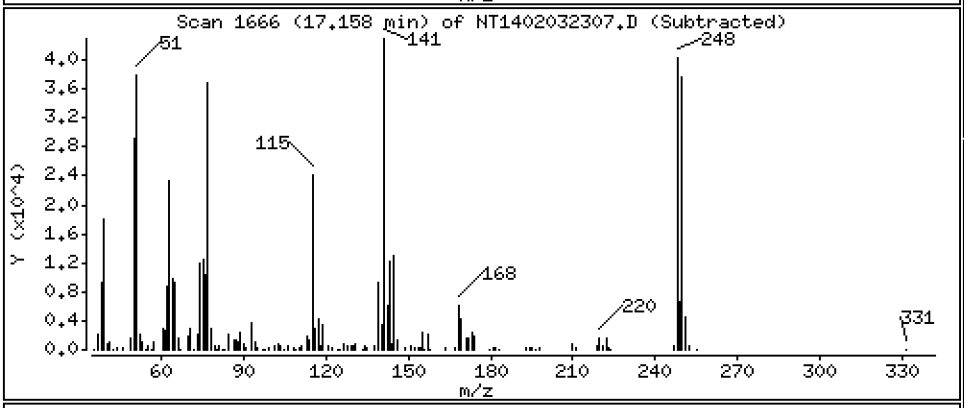
Column phase: ZB-5msi

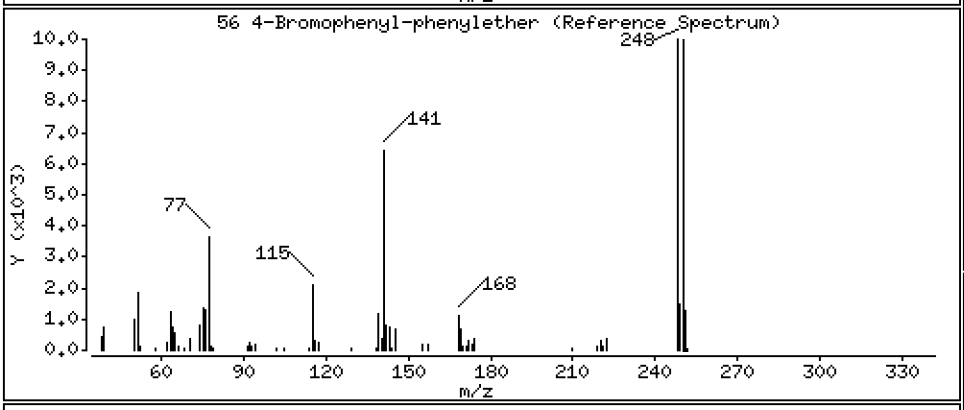
Column diameter: 0.25

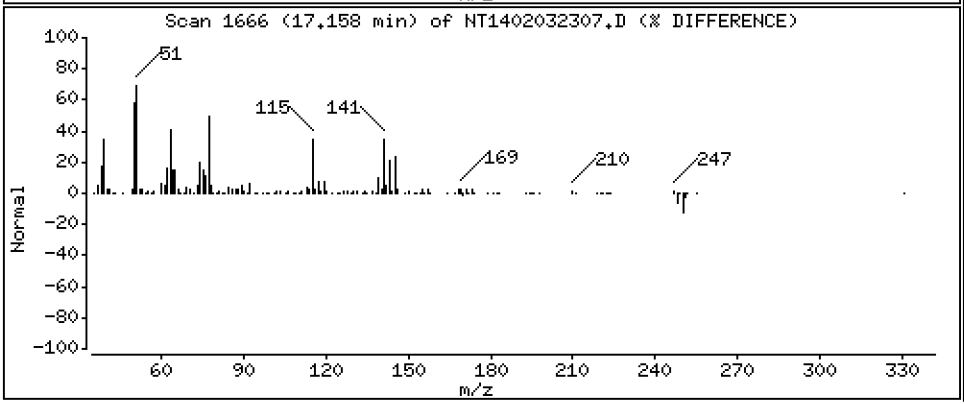
56 4-Bromophenyl-phenylether

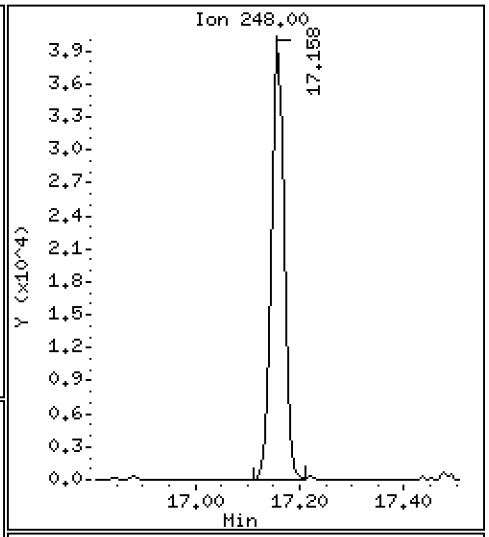
Concentration: 2.303 ug/mL

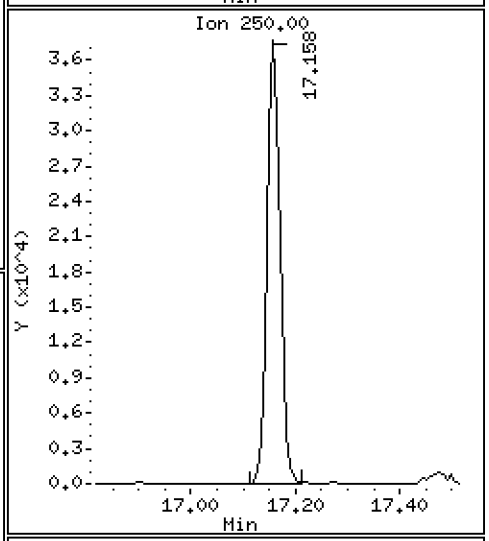


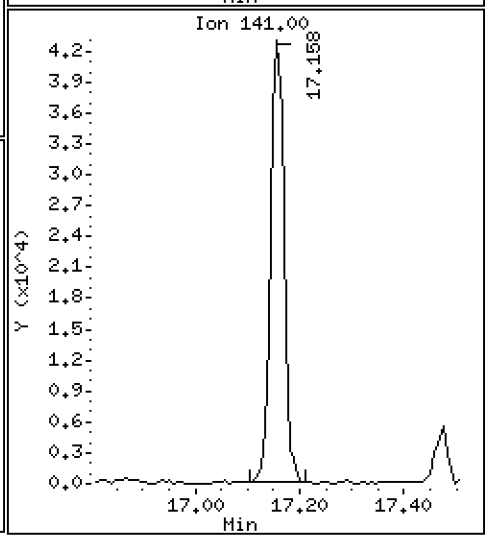












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

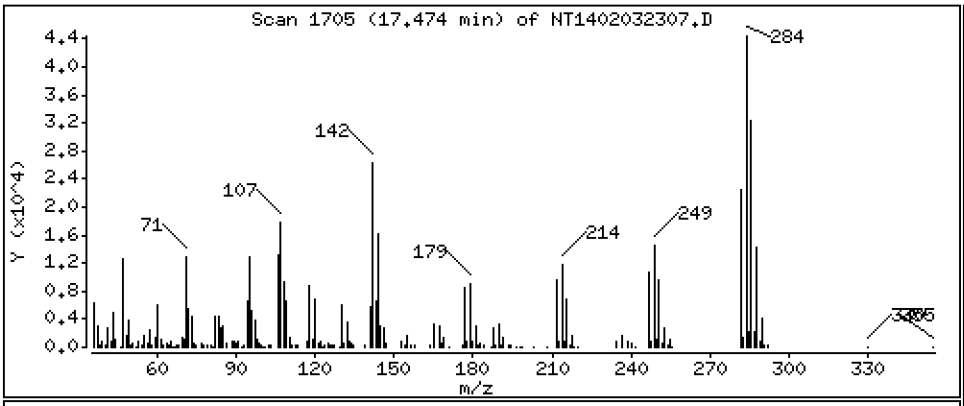
Operator: DSD

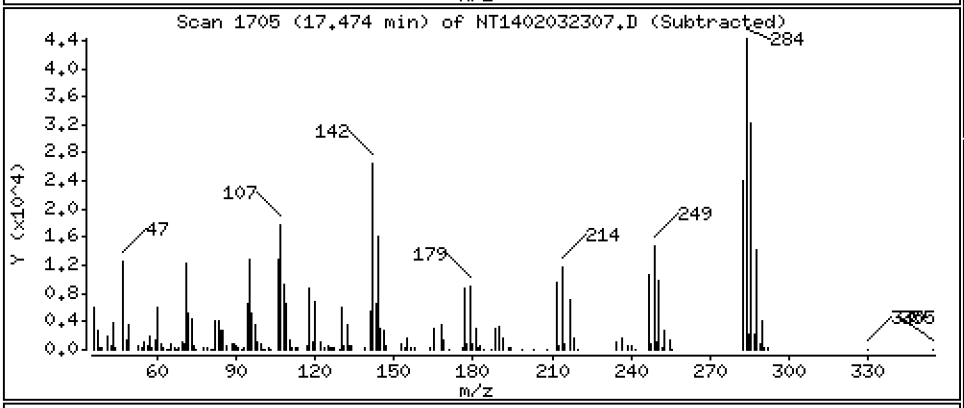
Column phase: ZB-5msi

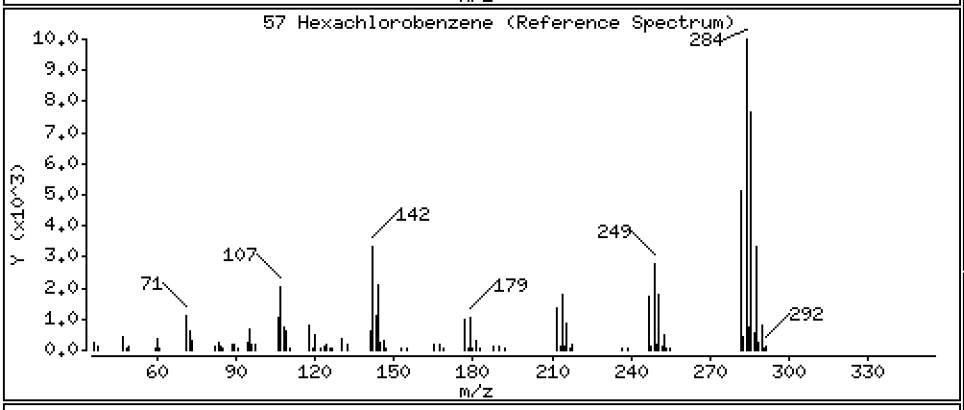
Column diameter: 0.25

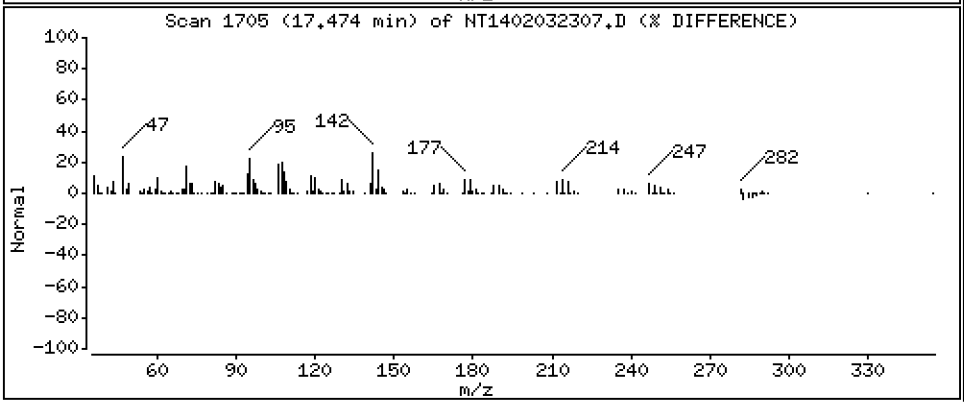
57 Hexachlorobenzene

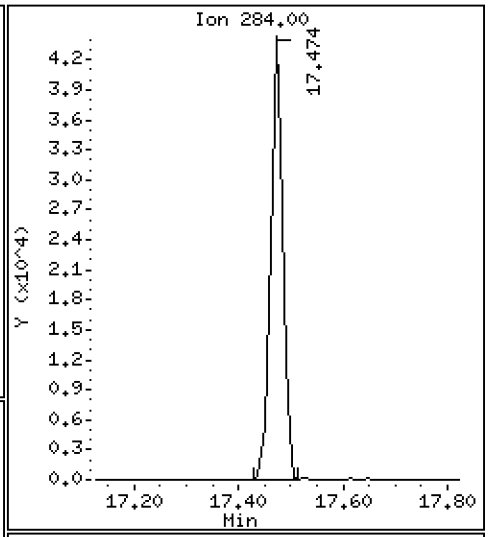
Concentration: 2.223 ug/mL

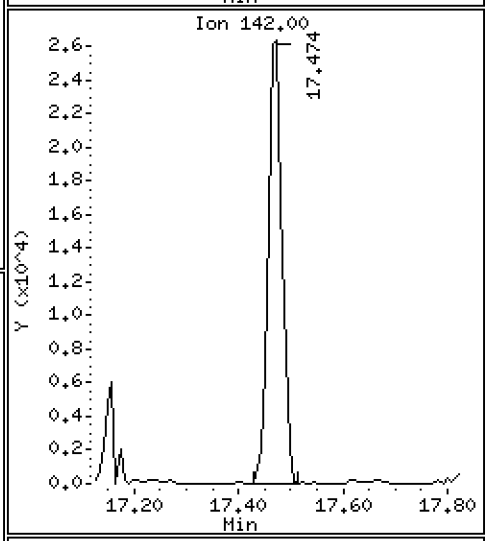


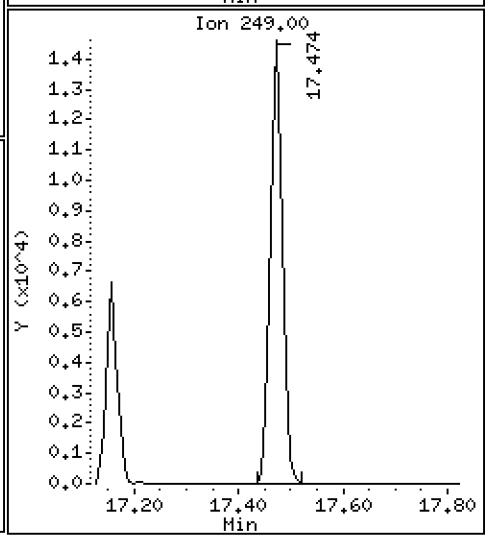












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

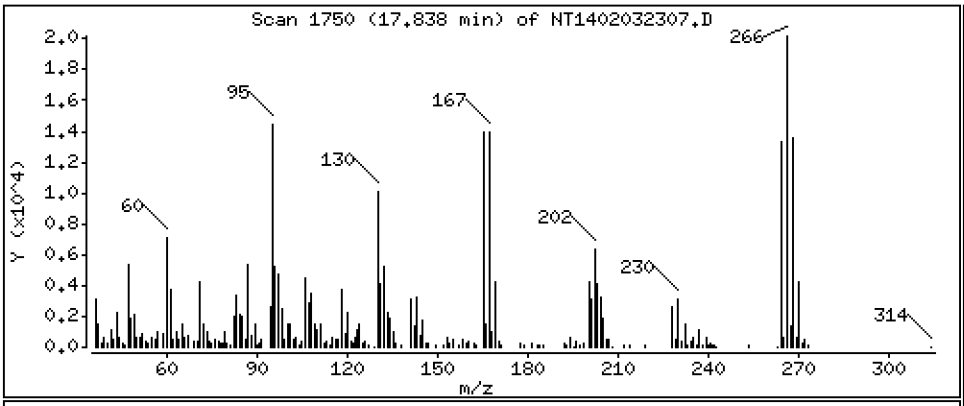
Operator: DSD

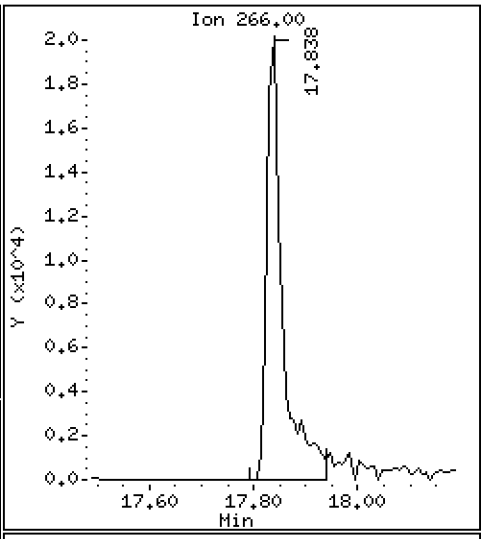
Column phase: ZB-5msi

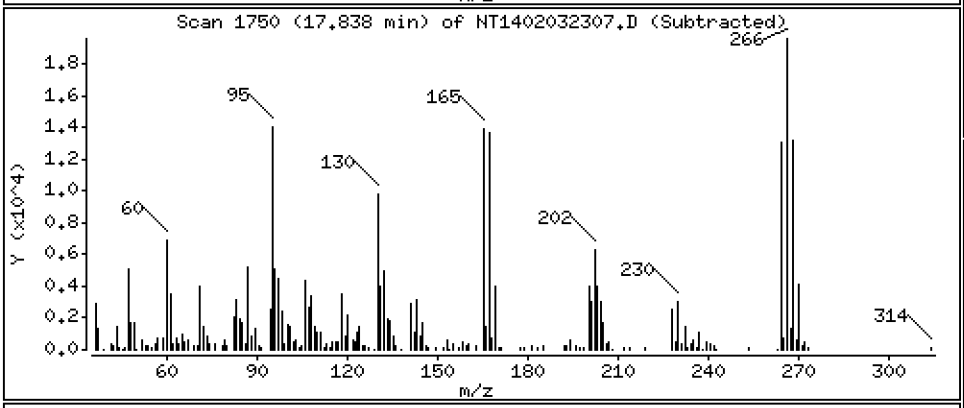
Column diameter: 0.25

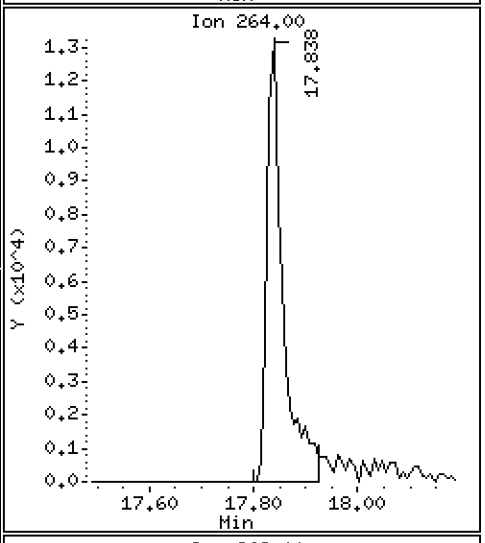
58 Pentachlorophenol

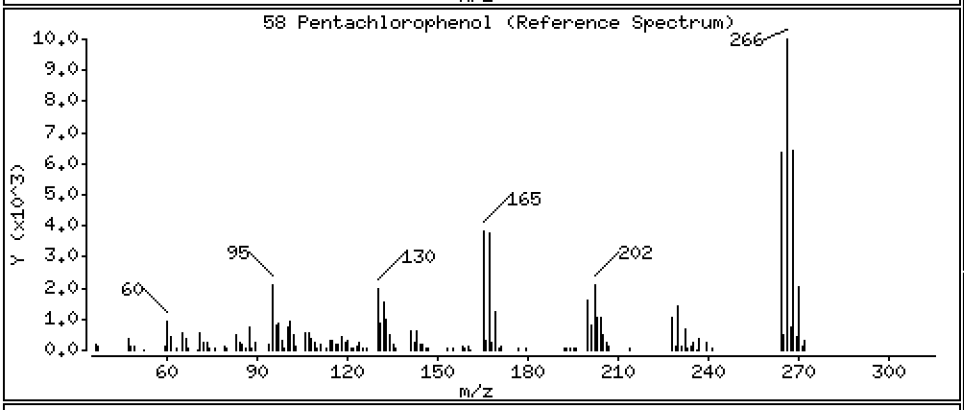
Concentration: 2.393 ug/mL

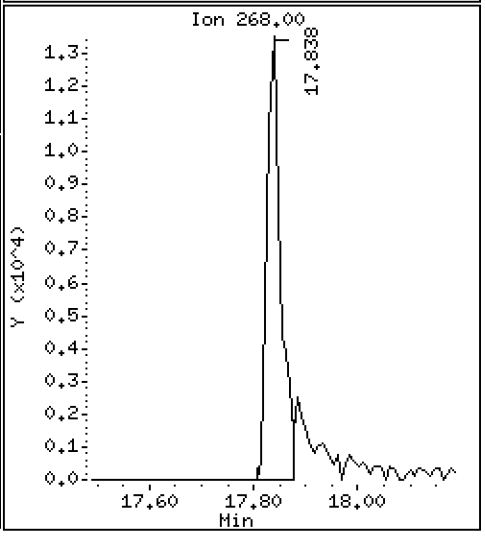


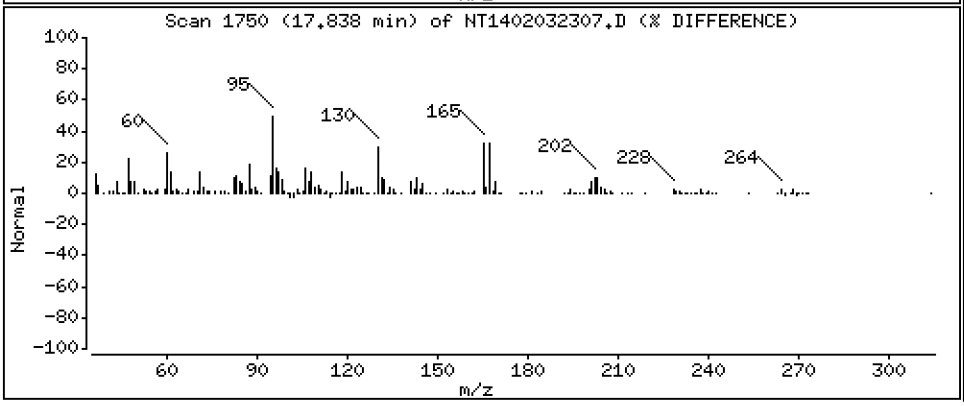












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

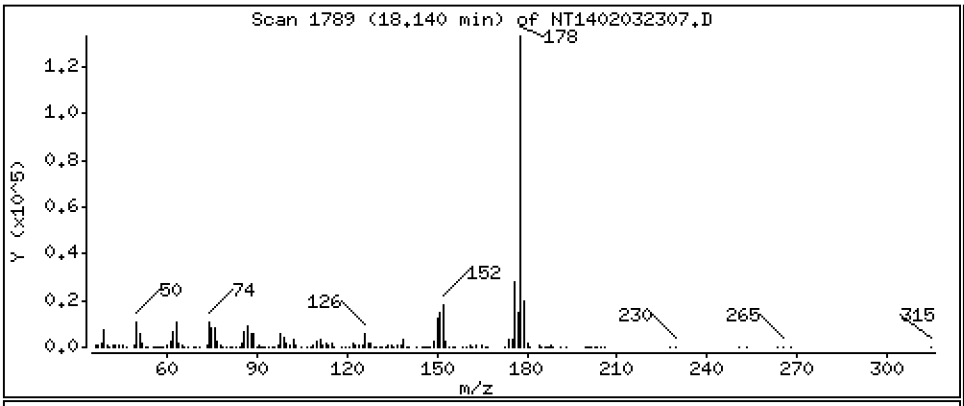
Operator: DSD

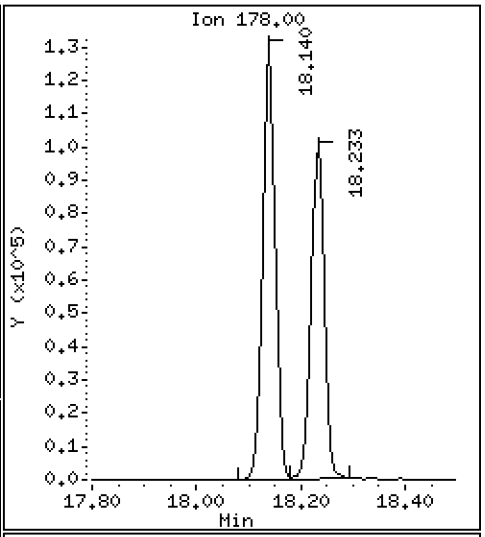
Column phase: ZB-5msi

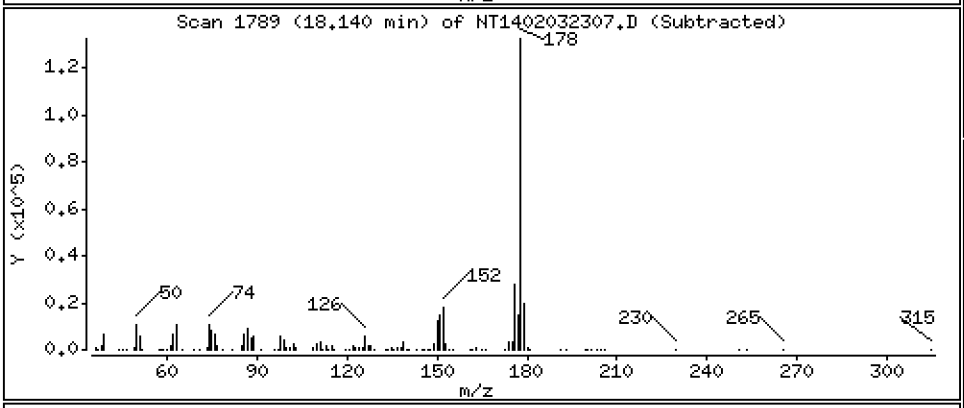
Column diameter: 0.25

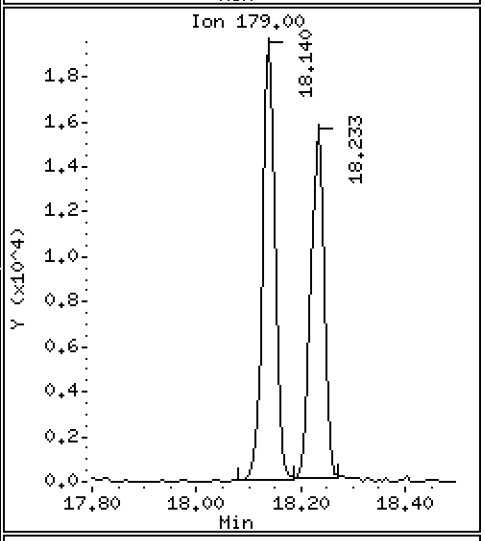
60 Phenanthrene

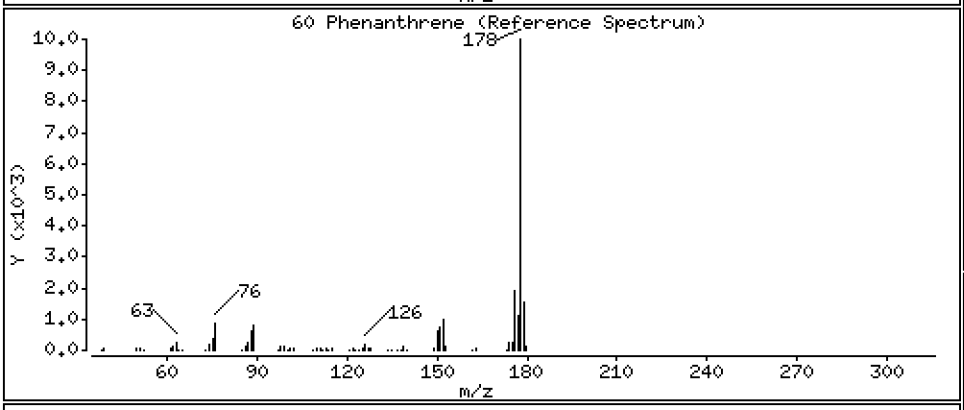
Concentration: 2.257 ug/mL

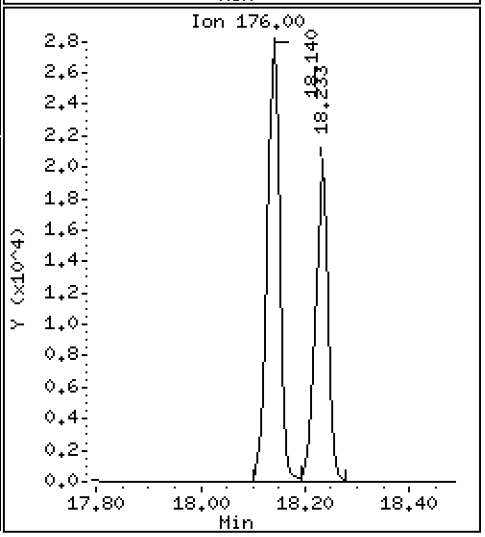


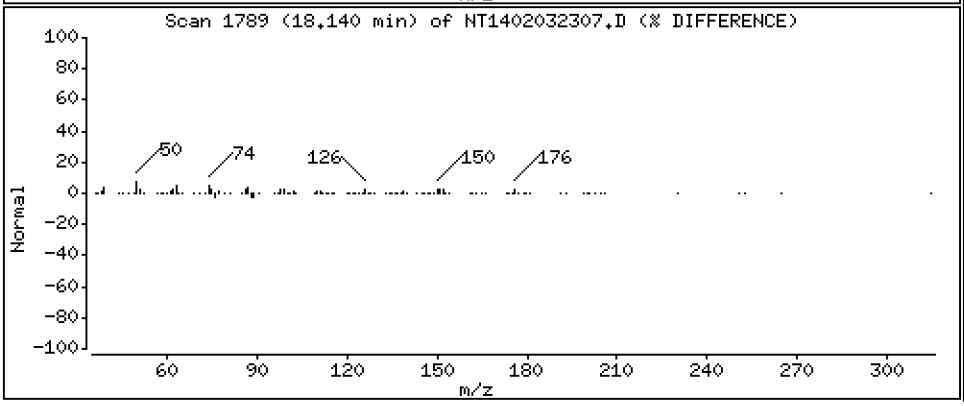












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

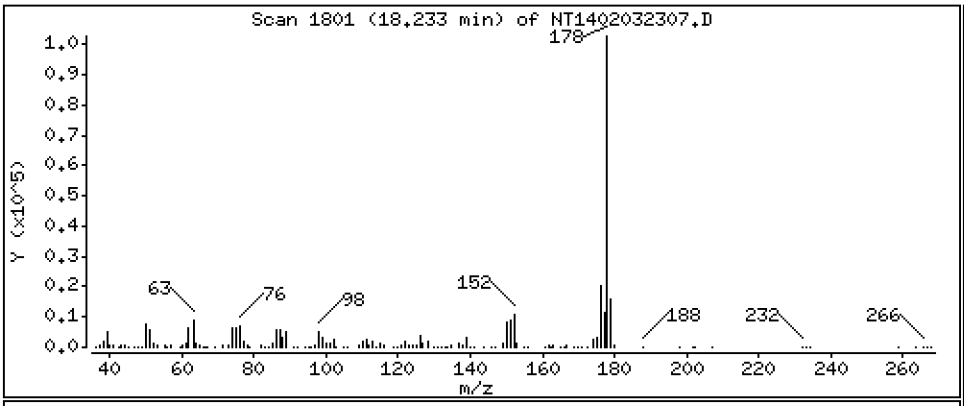
Operator: DSD

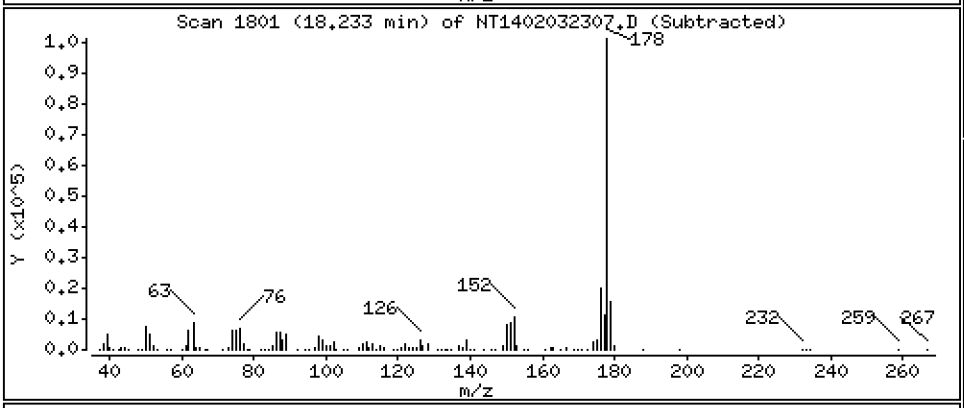
Column phase: ZB-5msi

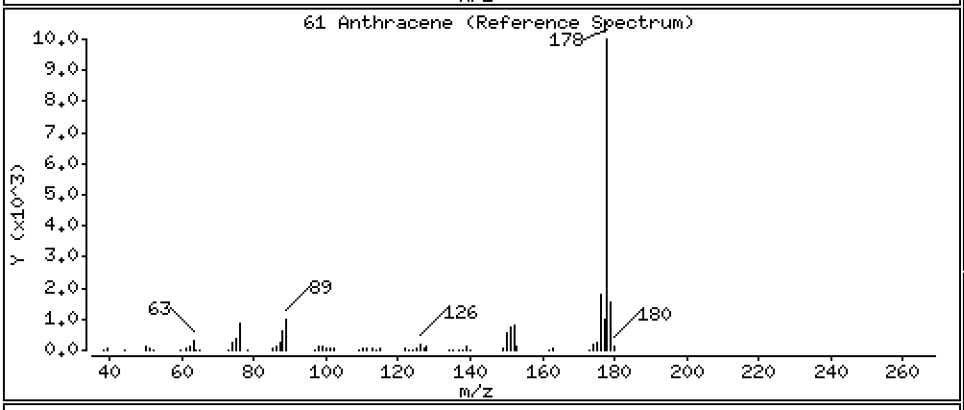
Column diameter: 0.25

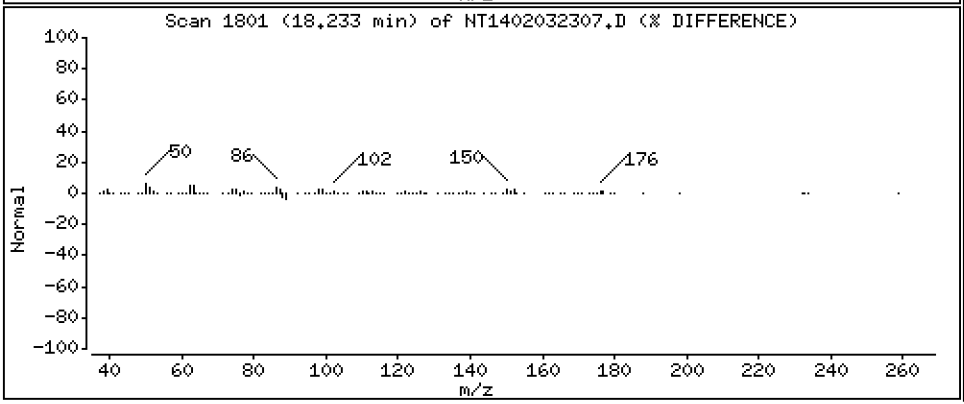
61 Anthracene

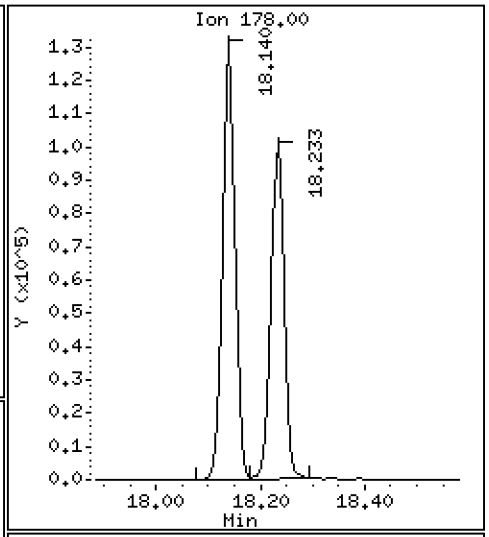
Concentration: 1.870 ug/mL

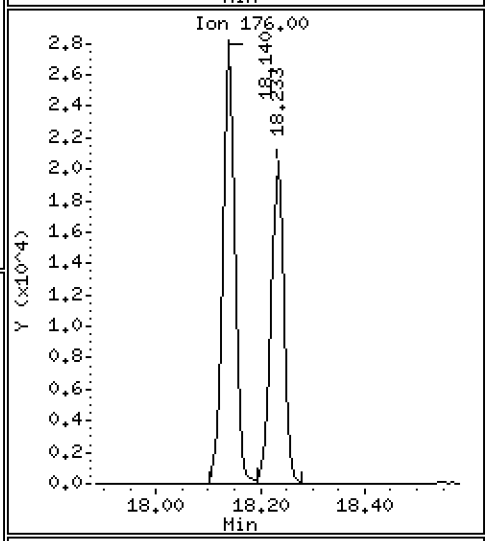


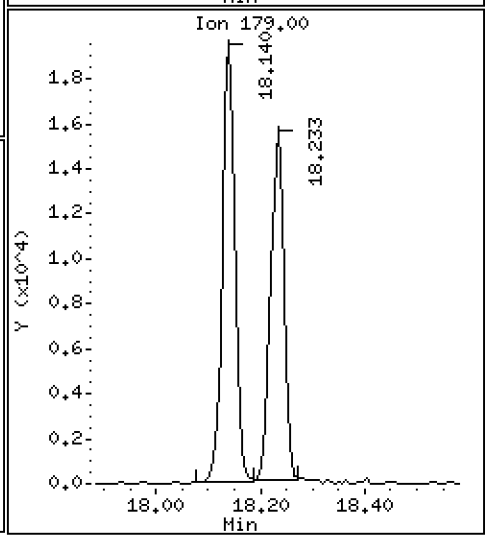












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

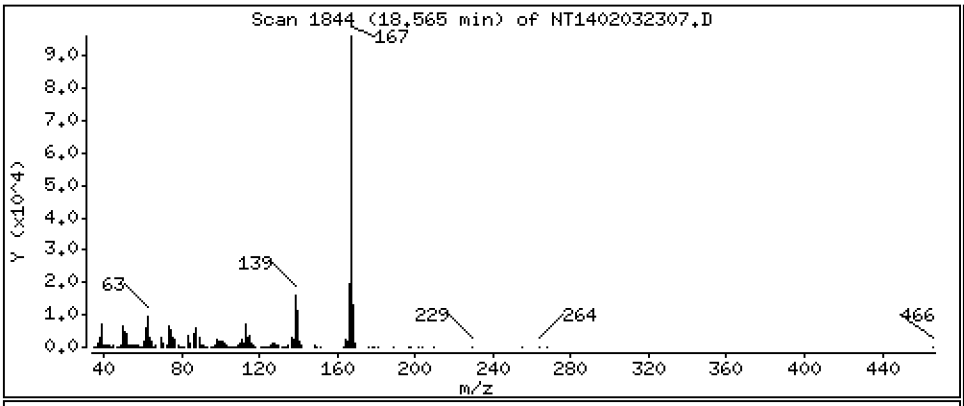
Operator: DSD

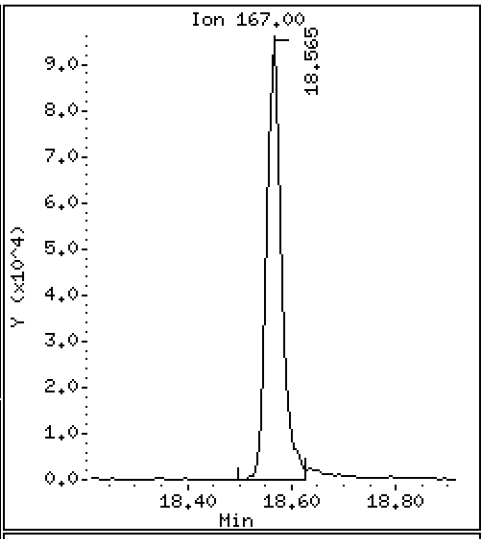
Column phase: ZB-5msi

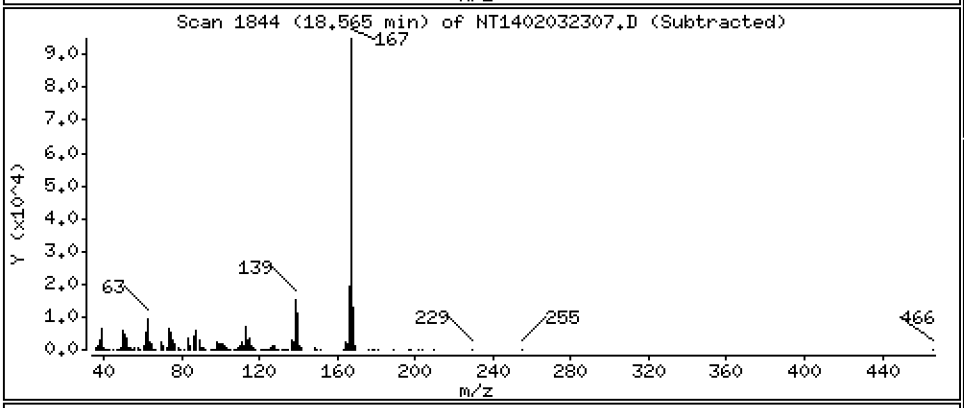
Column diameter: 0.25

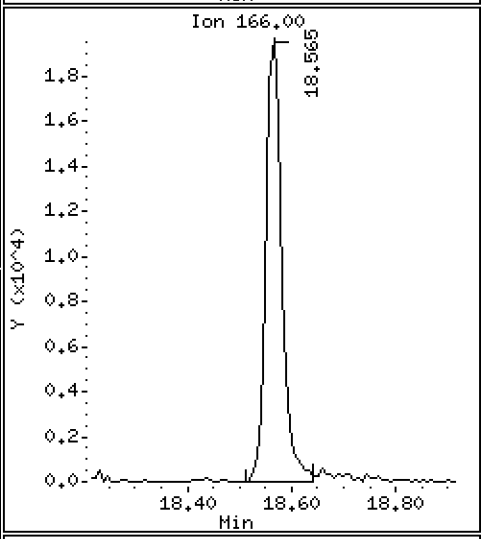
62 Carbazole

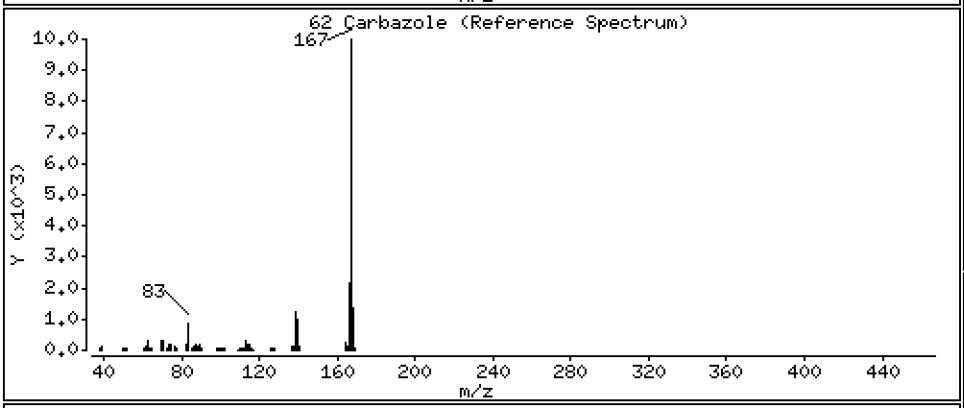
Concentration: 2.205 ug/mL

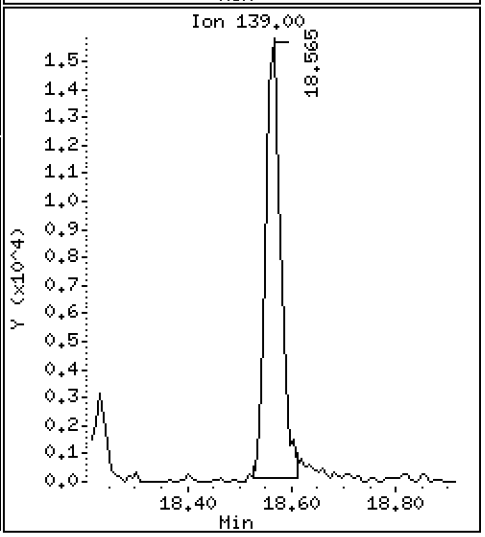


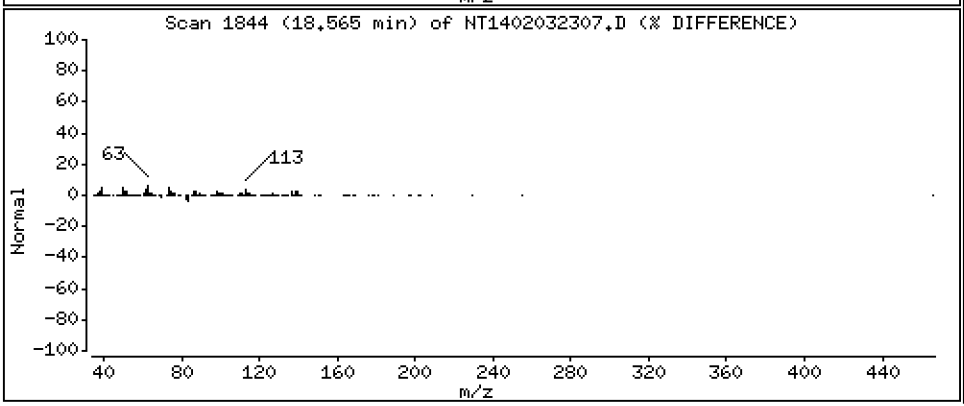












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

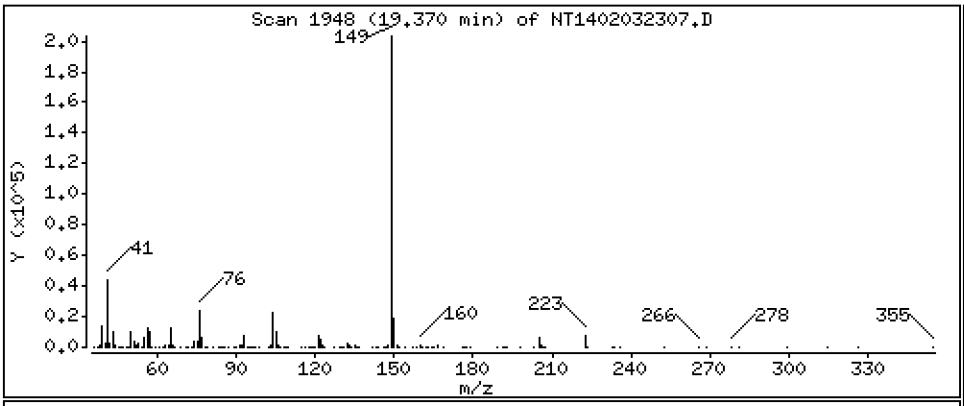
Operator: DSD

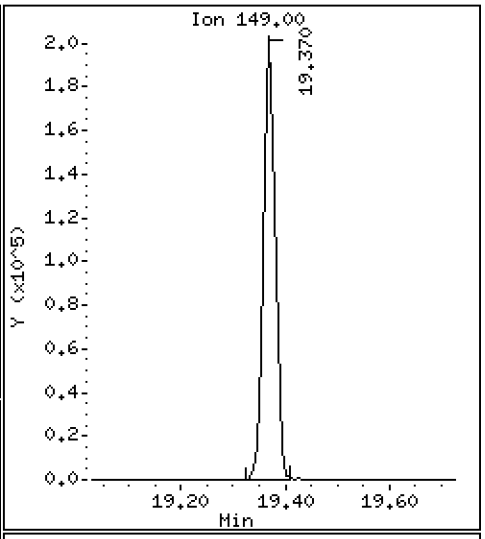
Column phase: ZB-5msi

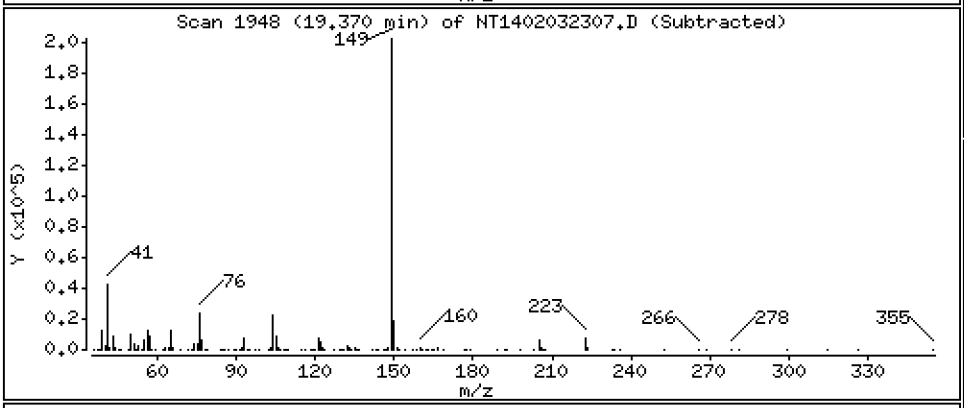
Column diameter: 0.25

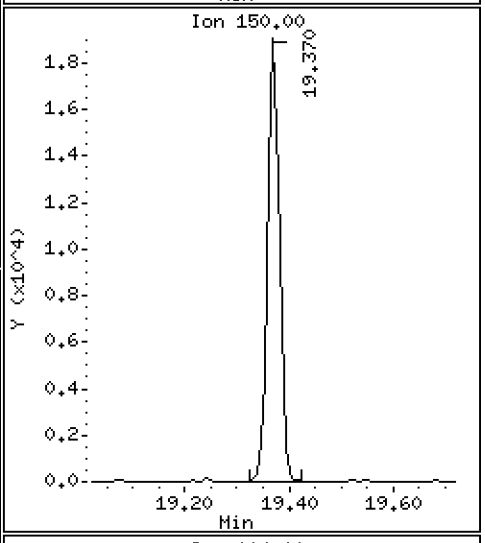
63 Di-n-butylphthalate

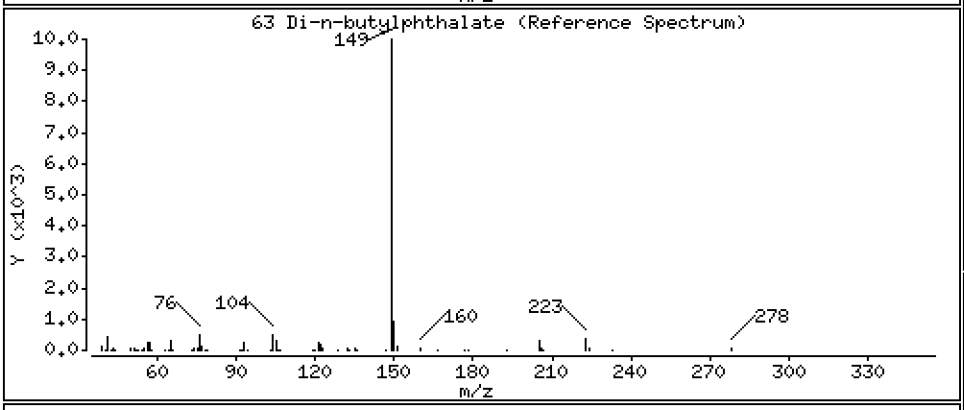
Concentration: 2.409 ug/mL

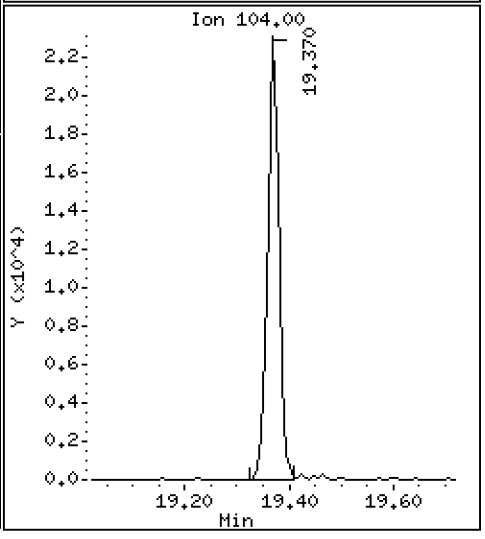


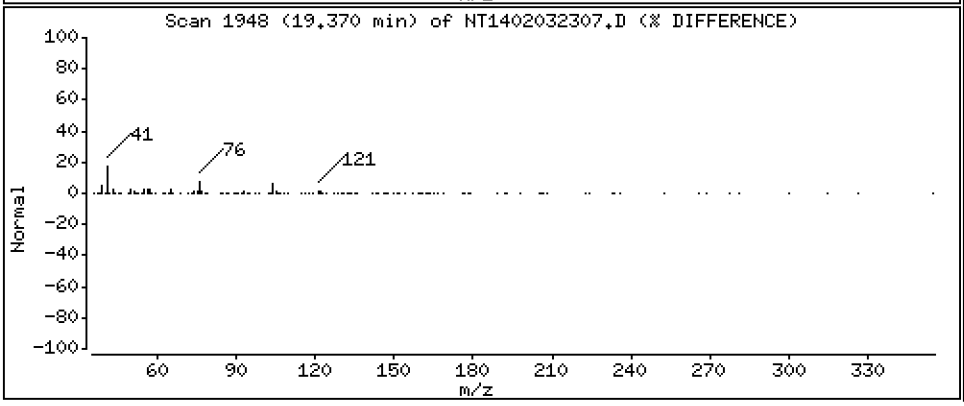












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

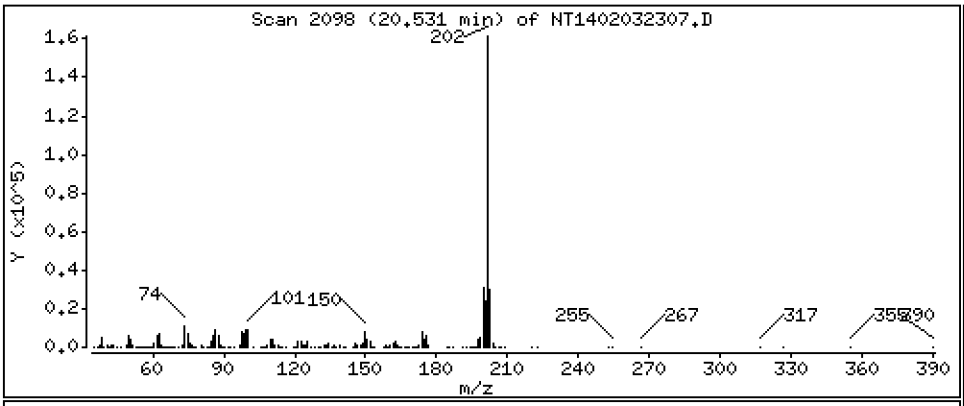
Operator: DSD

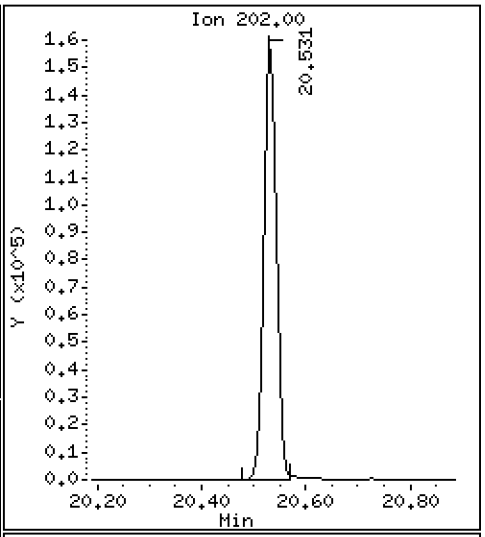
Column phase: ZB-5msi

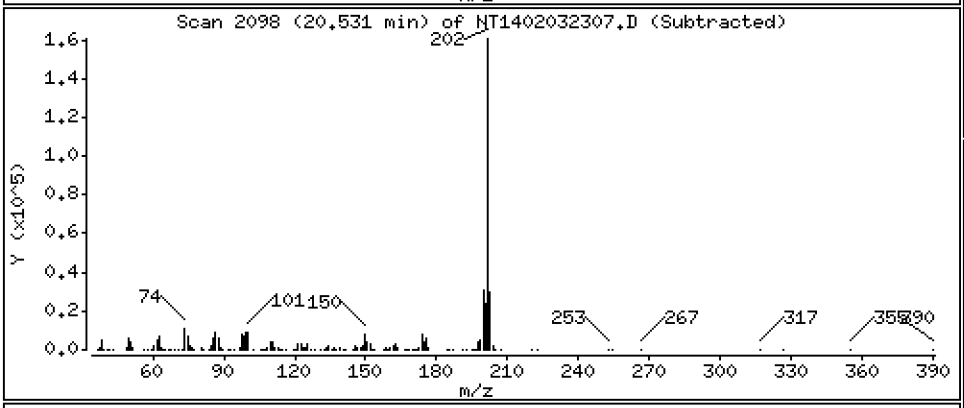
Column diameter: 0.25

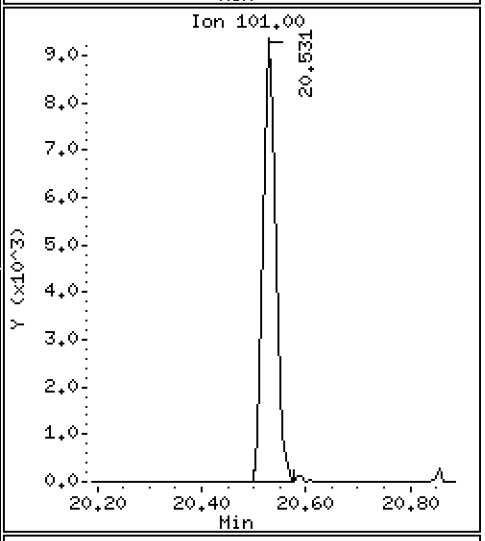
64 Fluoranthene

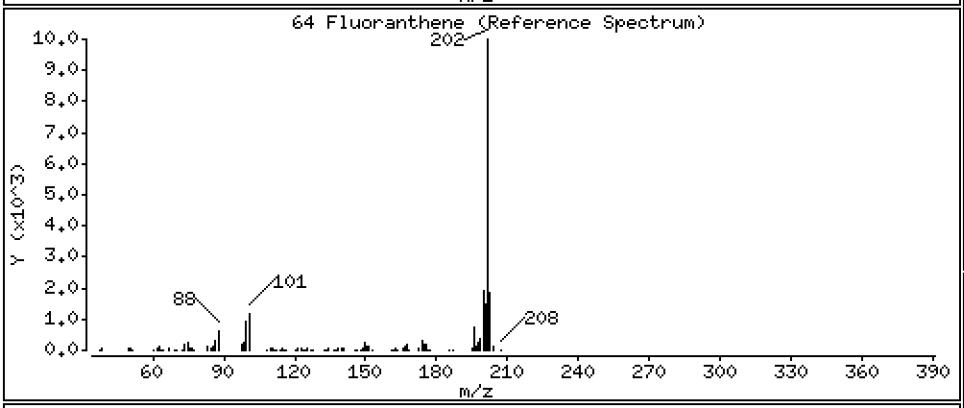
Concentration: 2.537 ug/mL

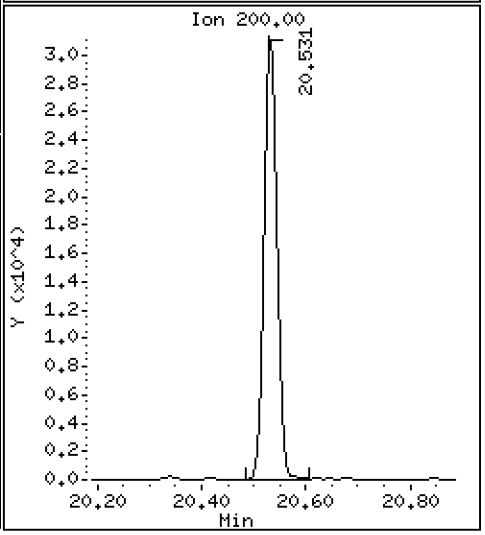


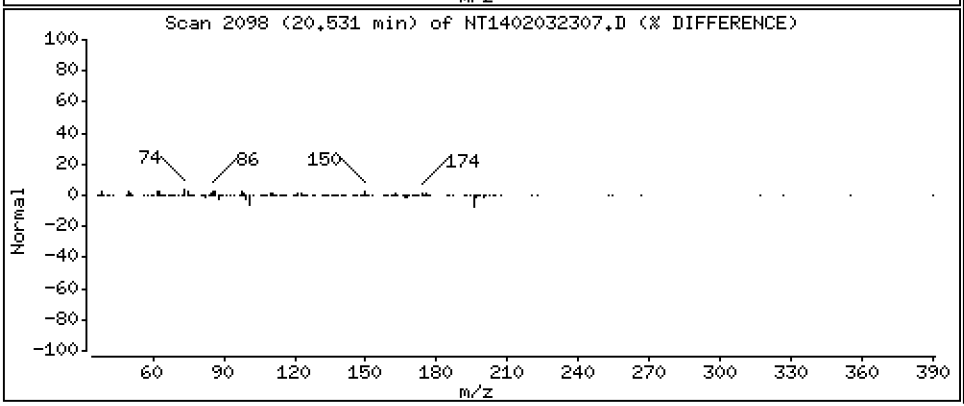












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

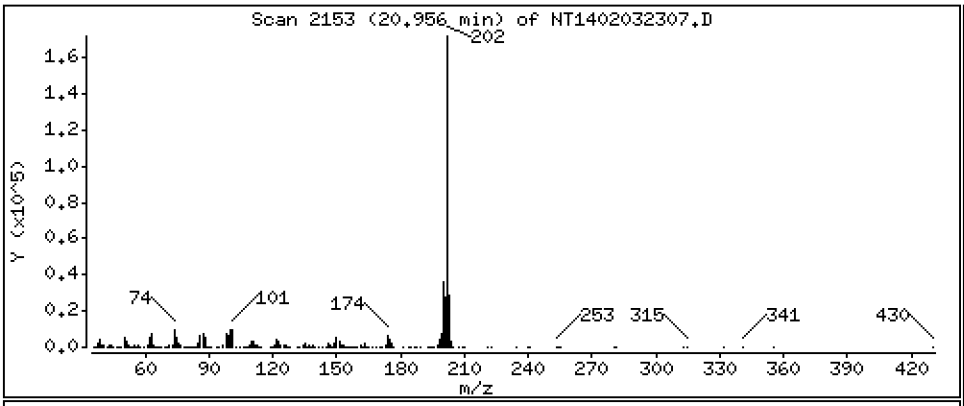
Operator: DSD

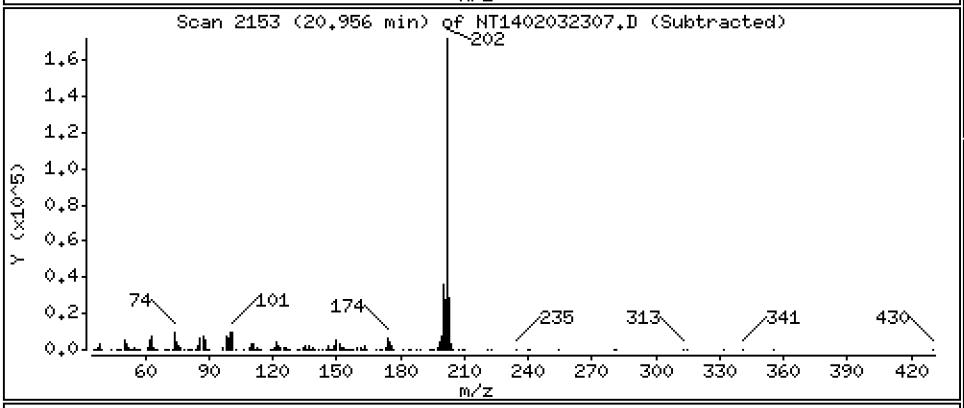
Column phase: ZB-5msi

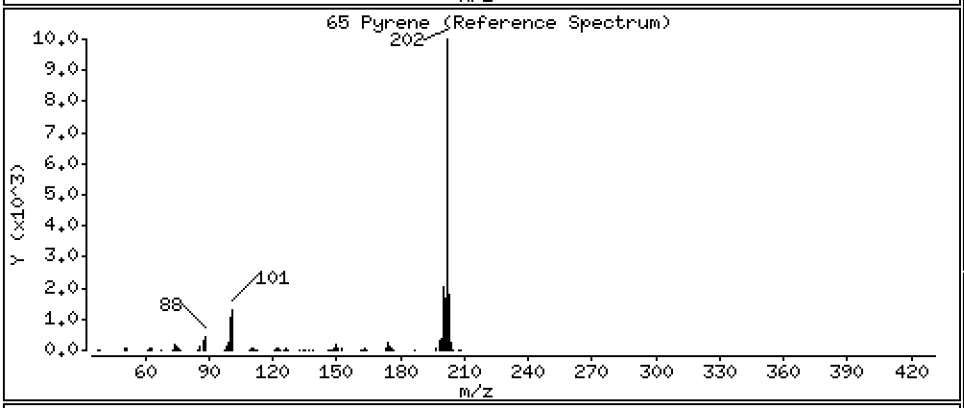
Column diameter: 0.25

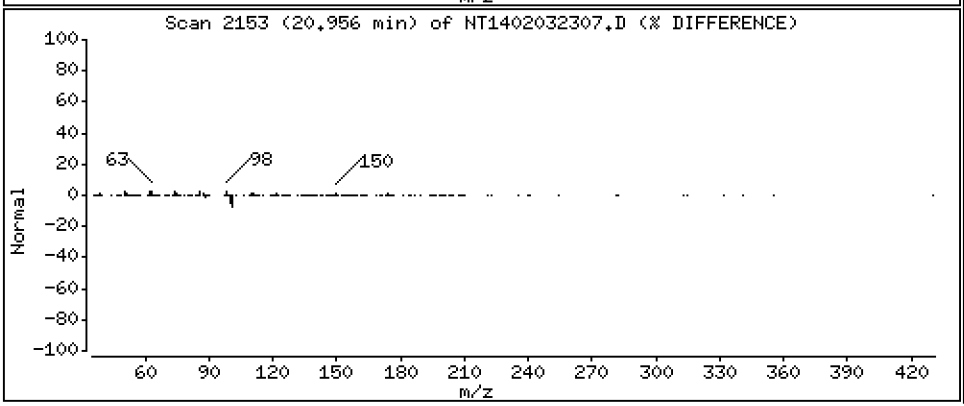
65 Pyrene

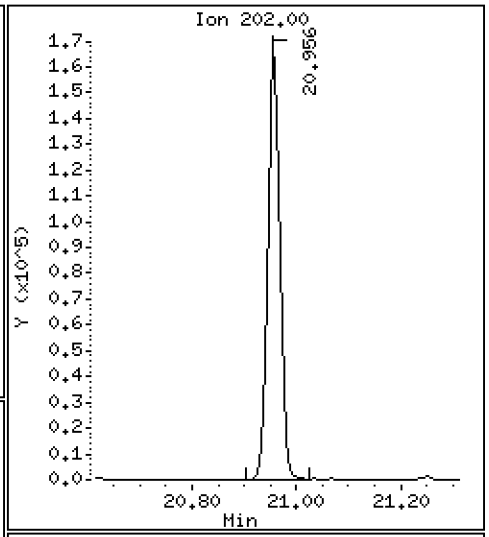
Concentration: 2.590 ug/mL

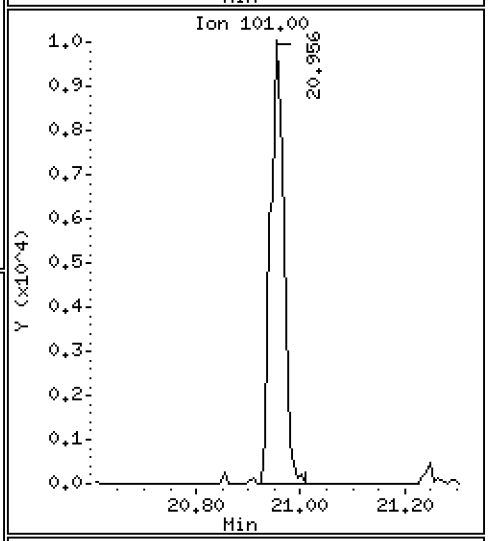


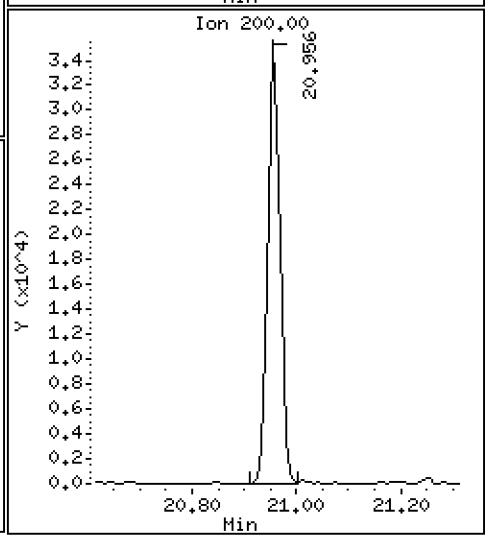












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

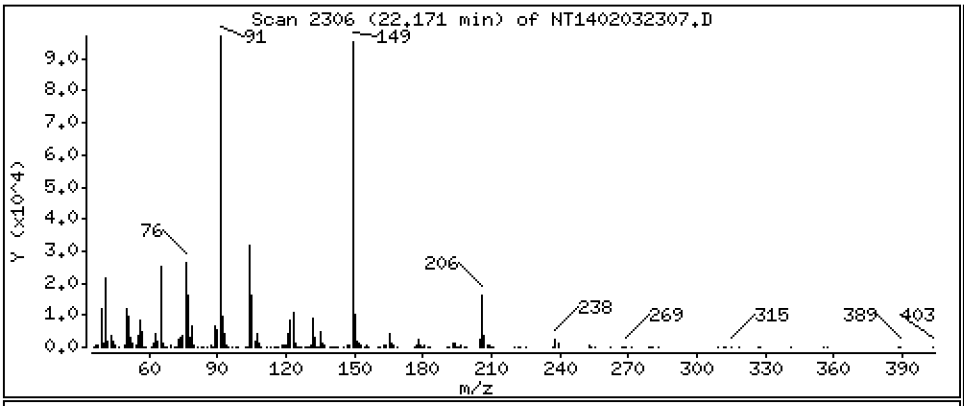
Operator: DSD

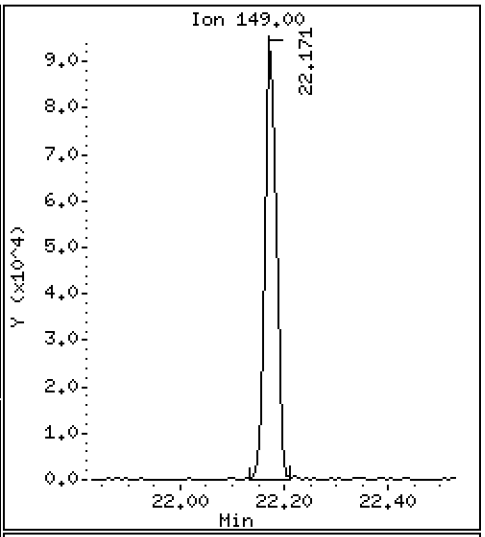
Column phase: ZB-5msi

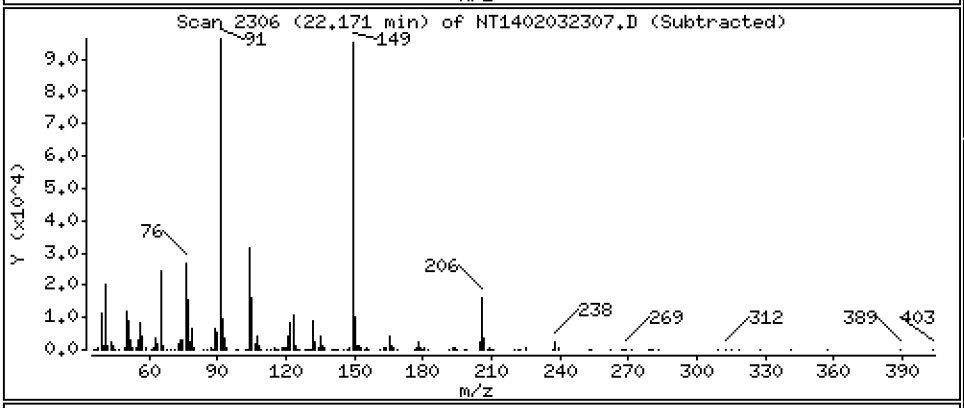
Column diameter: 0.25

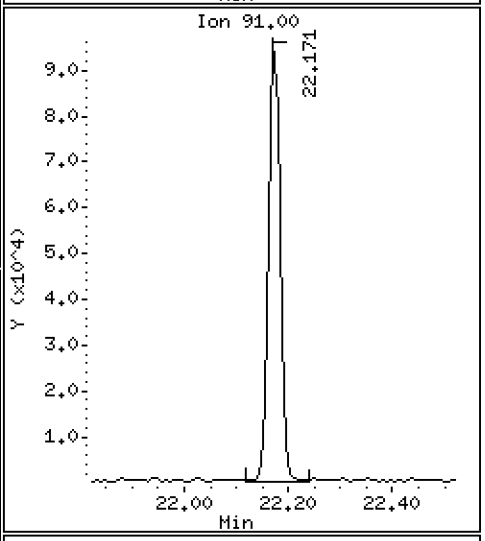
67 Butylbenzylphthalate

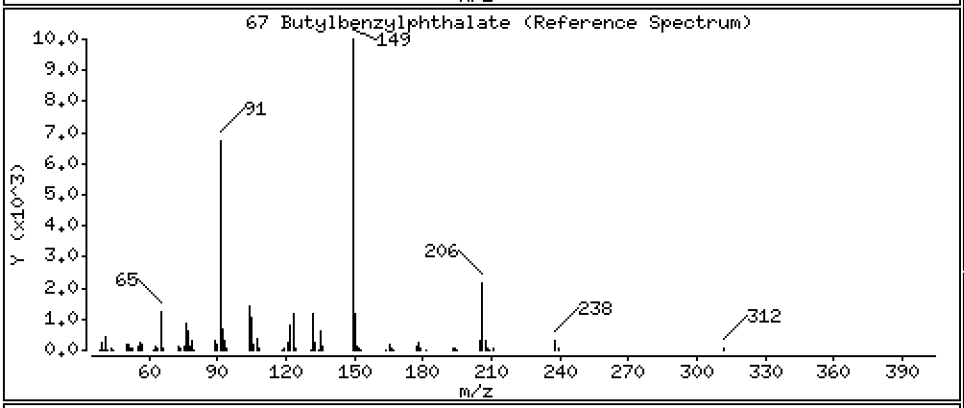
Concentration: 2.497 ug/mL

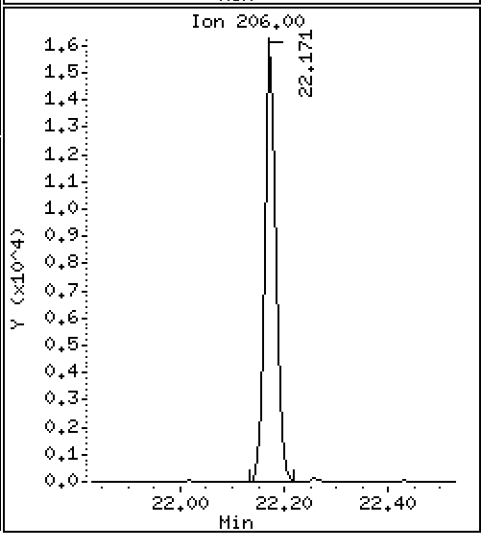


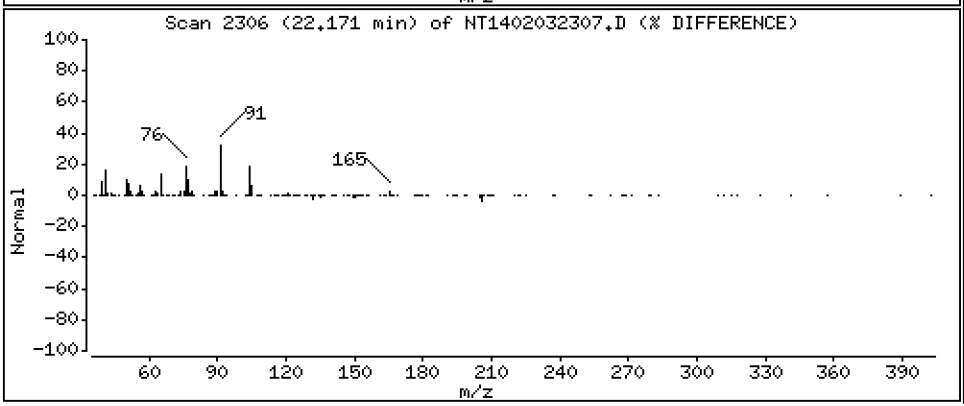












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

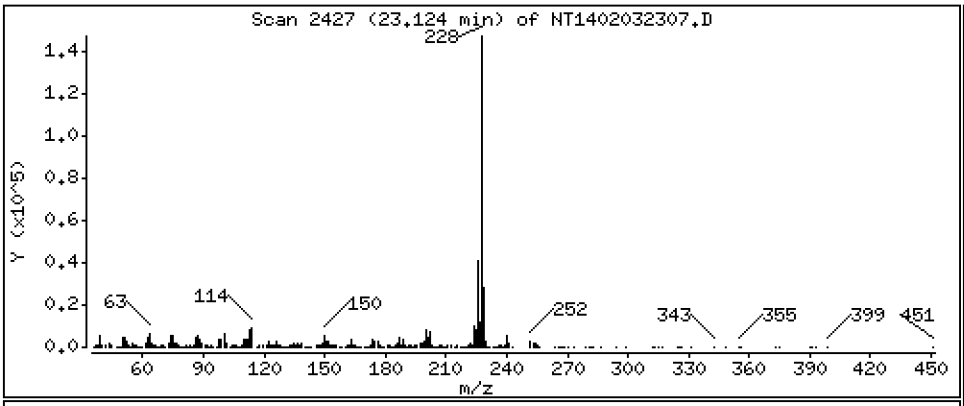
Operator: DSD

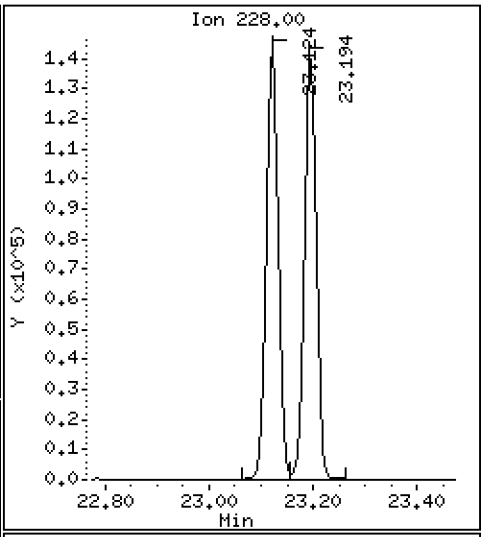
Column phase: ZB-5msi

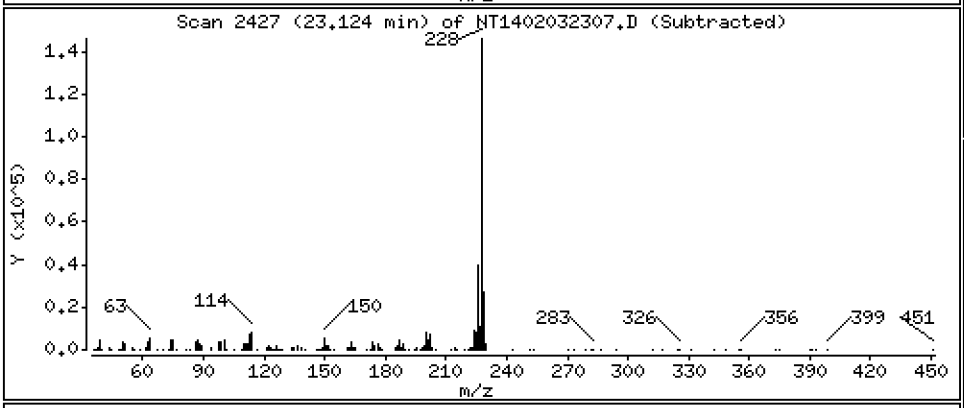
Column diameter: 0.25

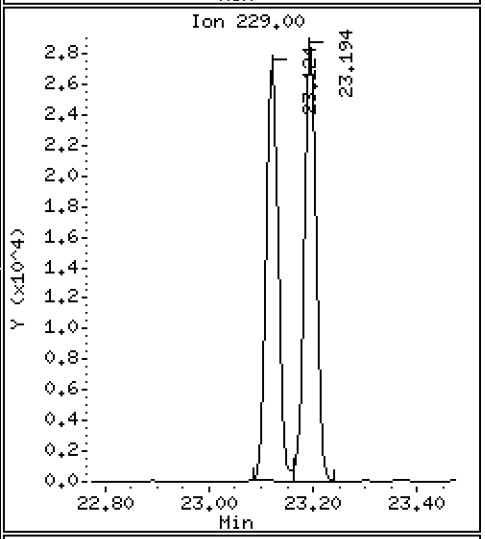
68 Benzo(a)anthracene

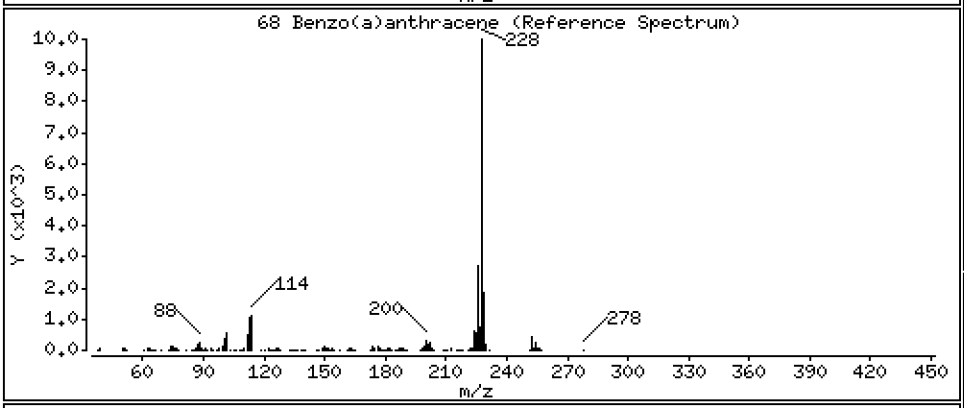
Concentration: 2.280 ug/mL

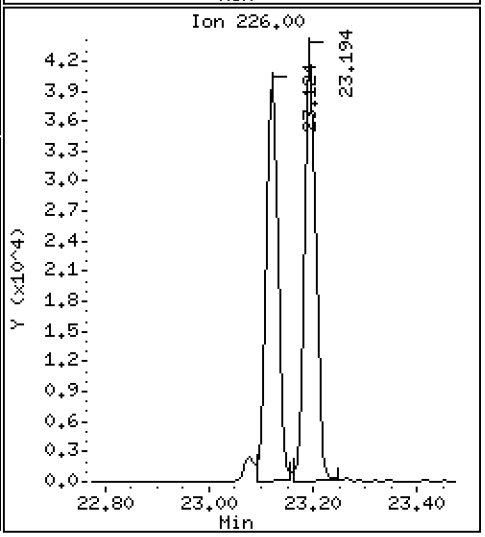


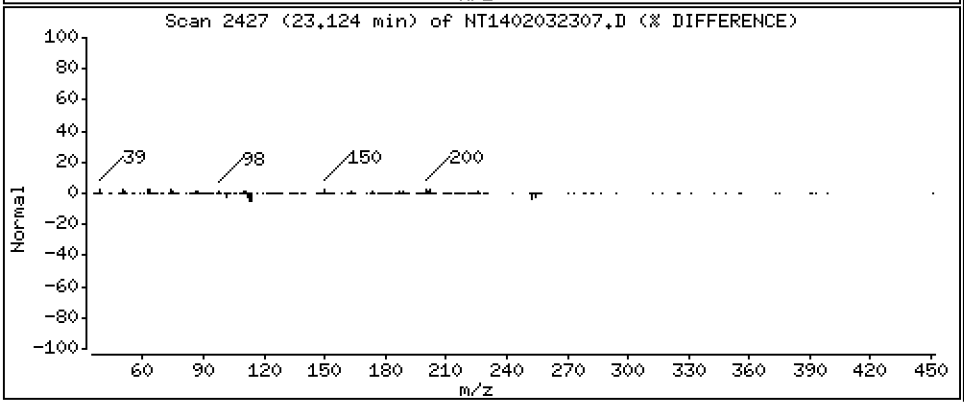












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

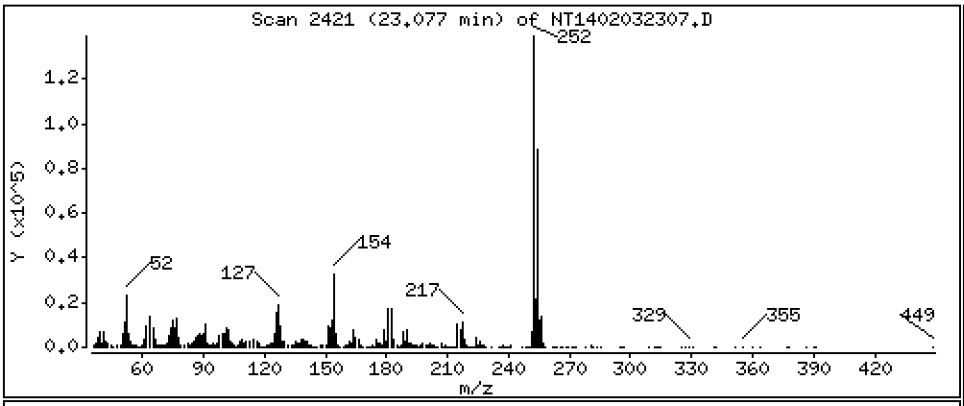
Operator: DSD

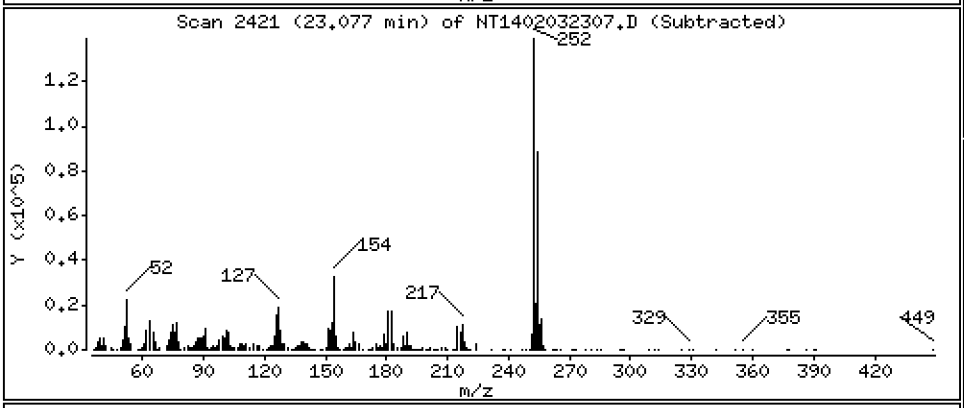
Column phase: ZB-5msi

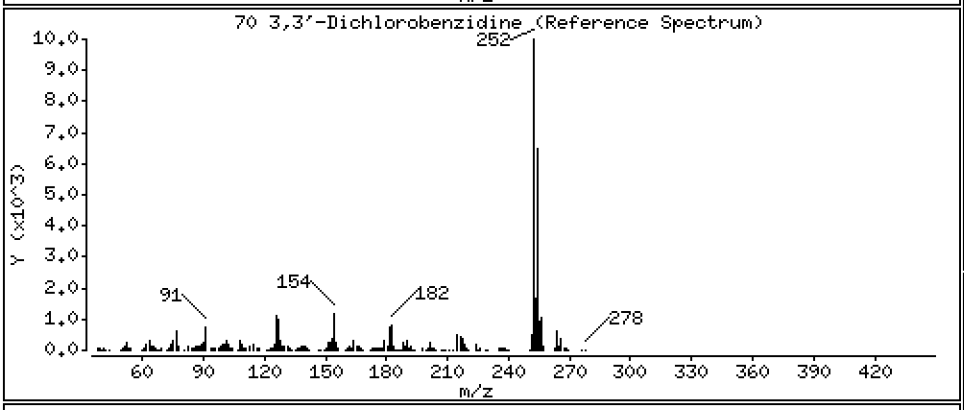
Column diameter: 0.25

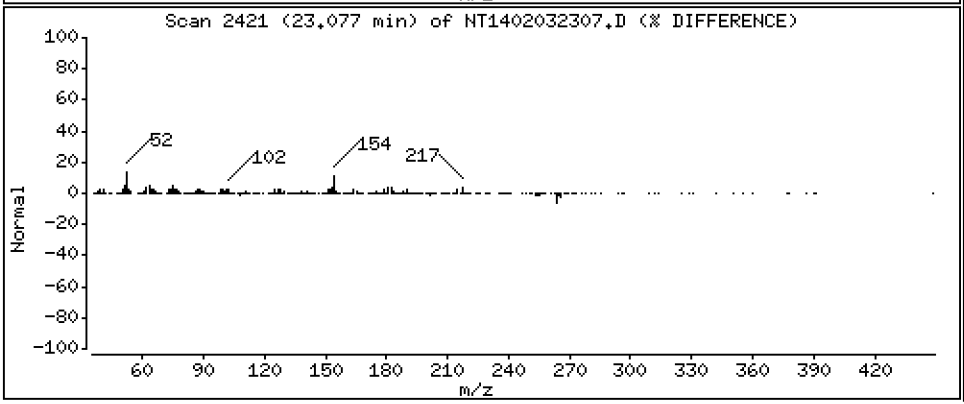
70 3,3'-Dichlorobenzidine

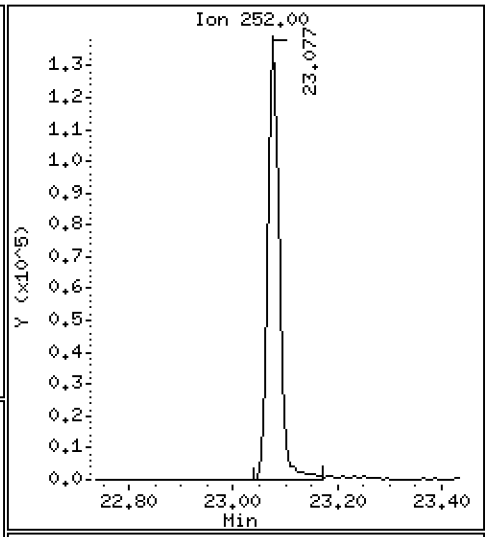
Concentration: 4.655 ug/mL

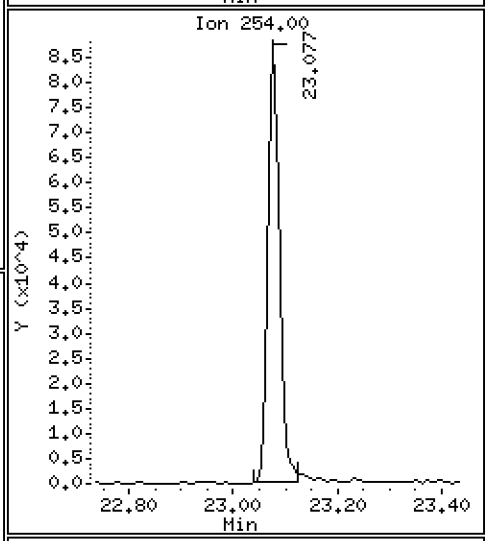


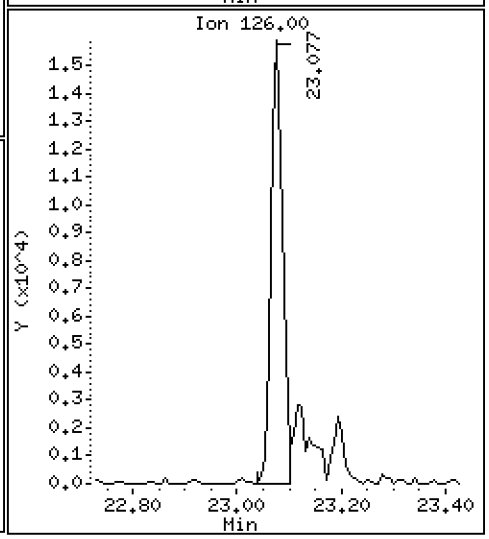












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

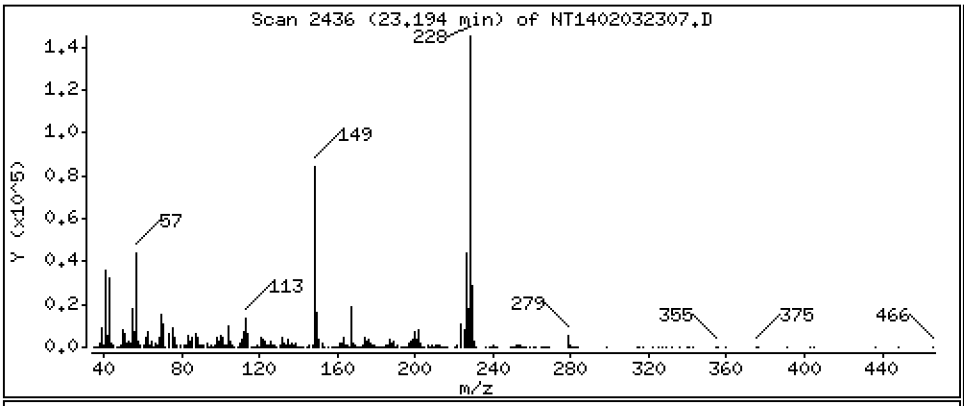
Operator: DSD

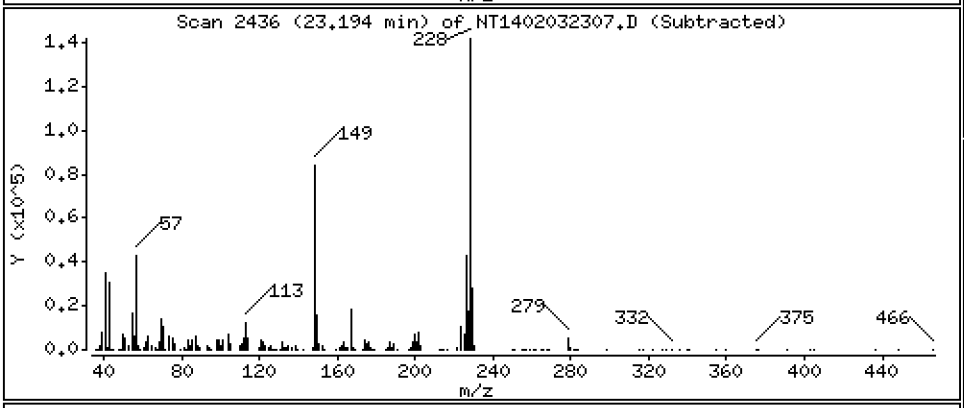
Column phase: ZB-5msi

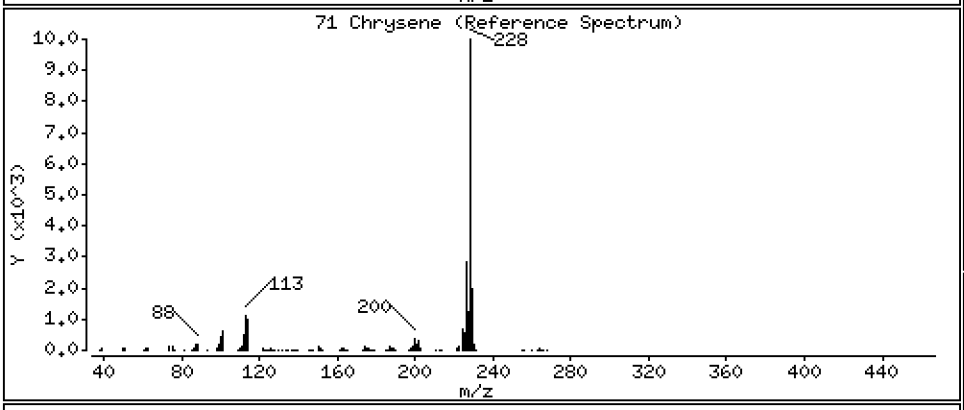
Column diameter: 0.25

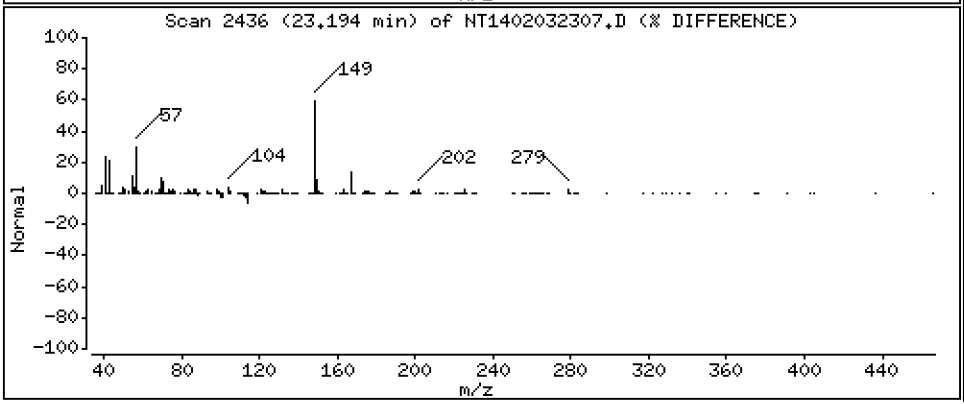
71 Chrysene

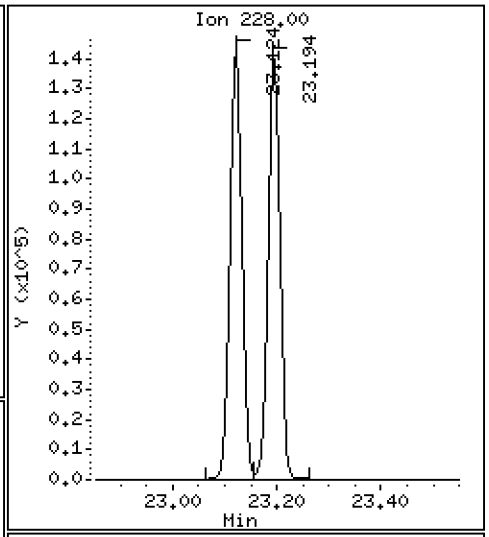
Concentration: 2.372 ug/mL

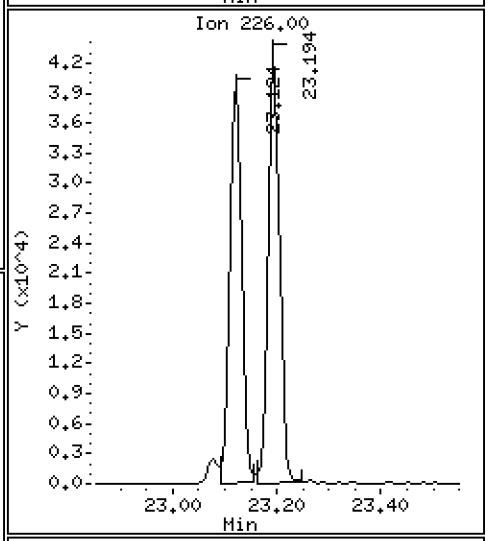


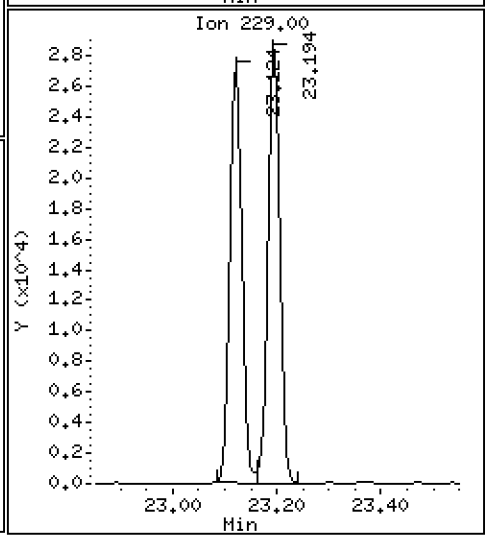












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

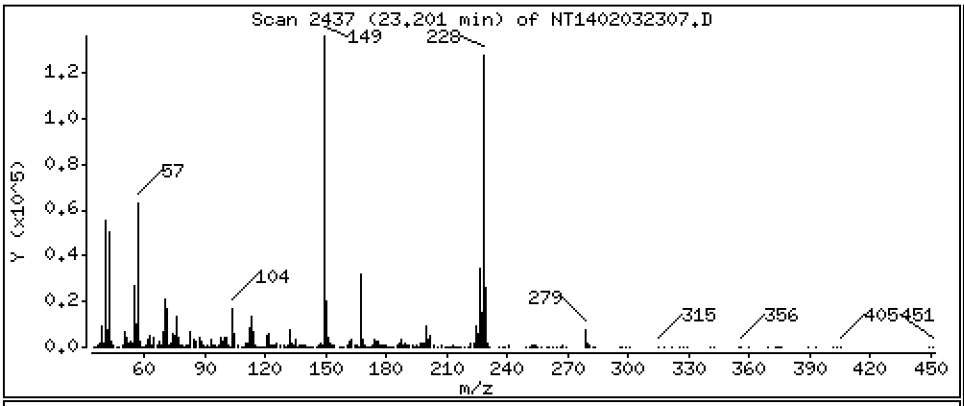
Operator: DSD

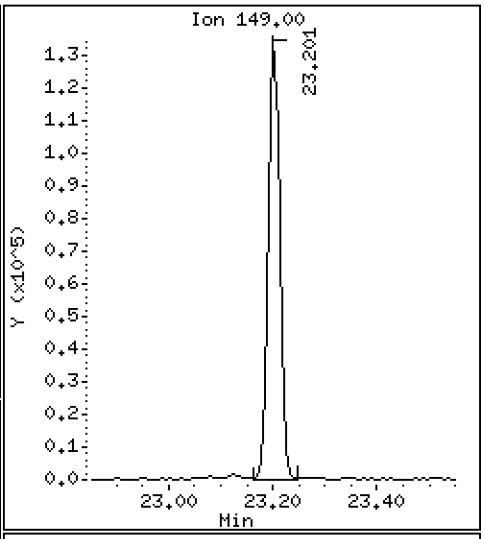
Column phase: ZB-5msi

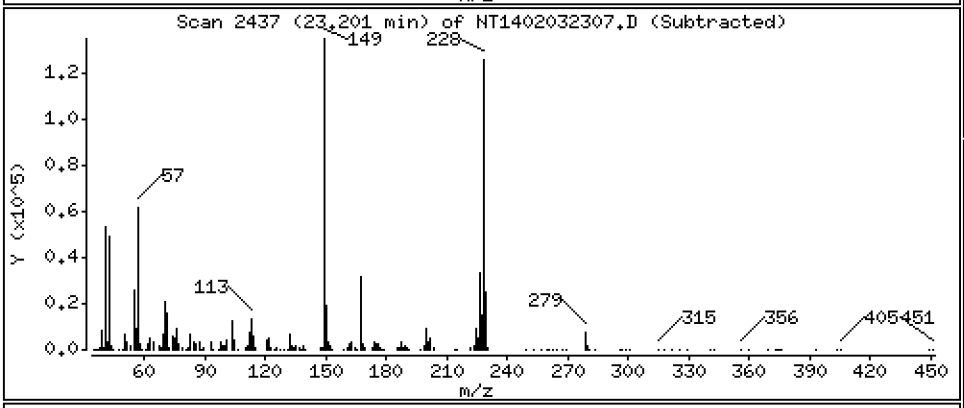
Column diameter: 0.25

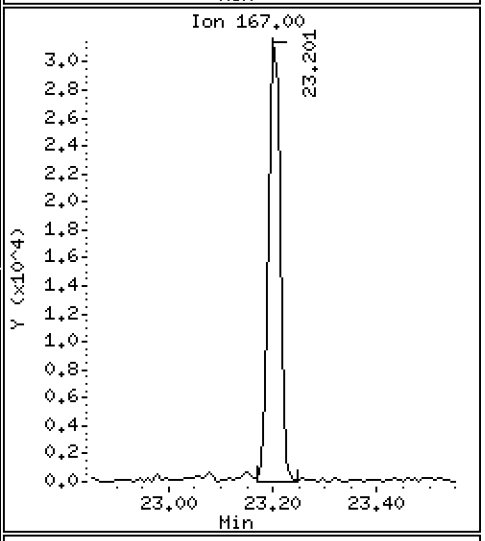
72 bis(2-Ethylhexyl)phthalate

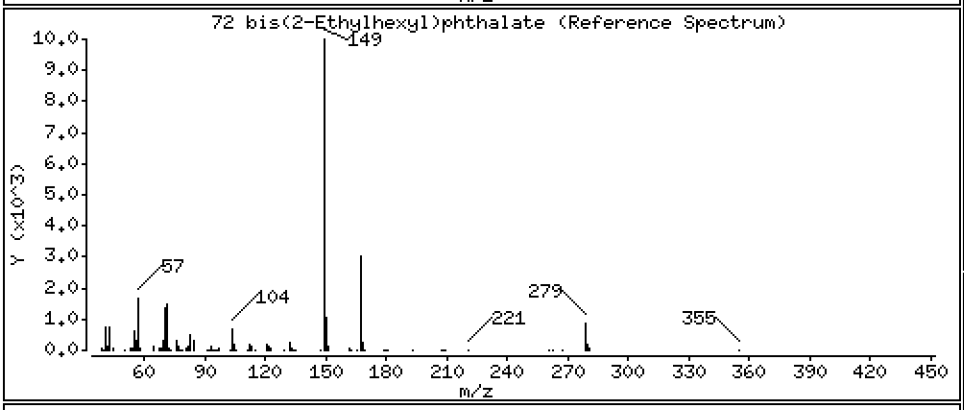
Concentration: 2.617 ug/mL

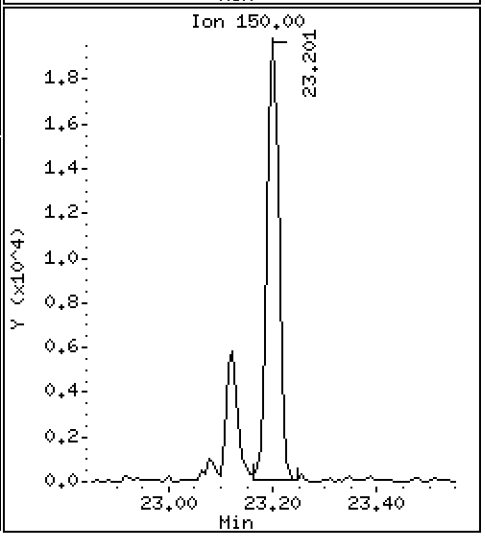


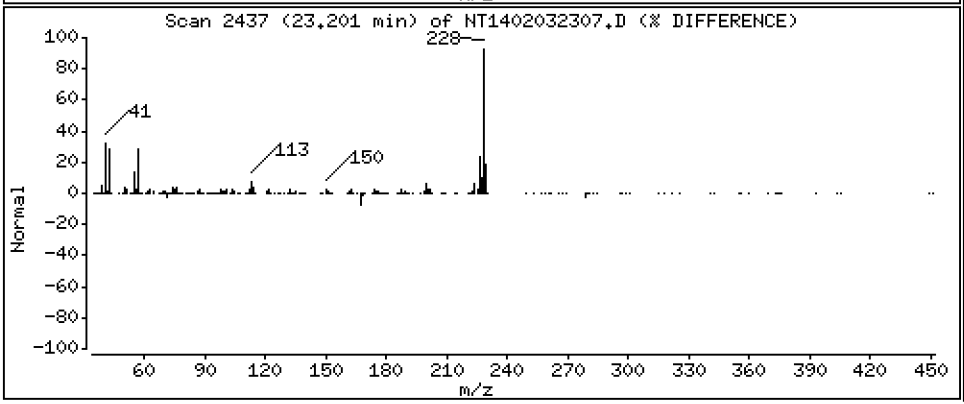












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

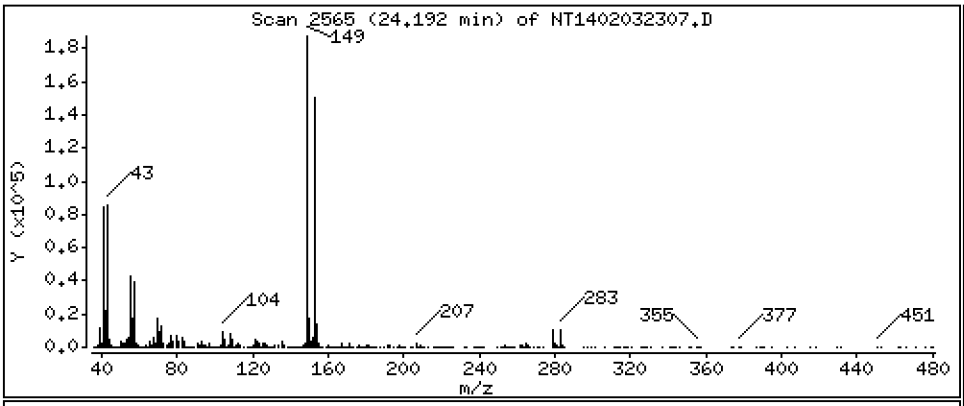
Operator: DSD

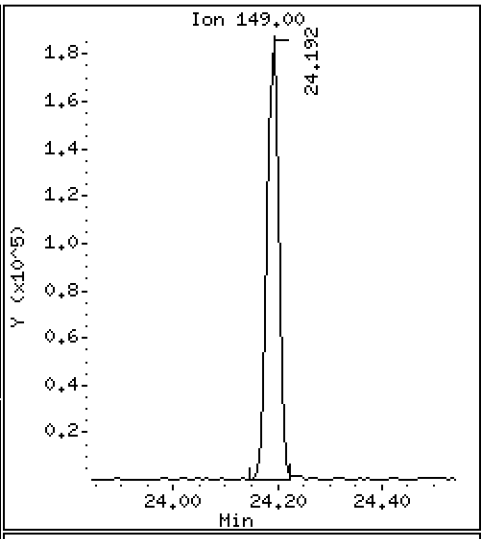
Column phase: ZB-5msi

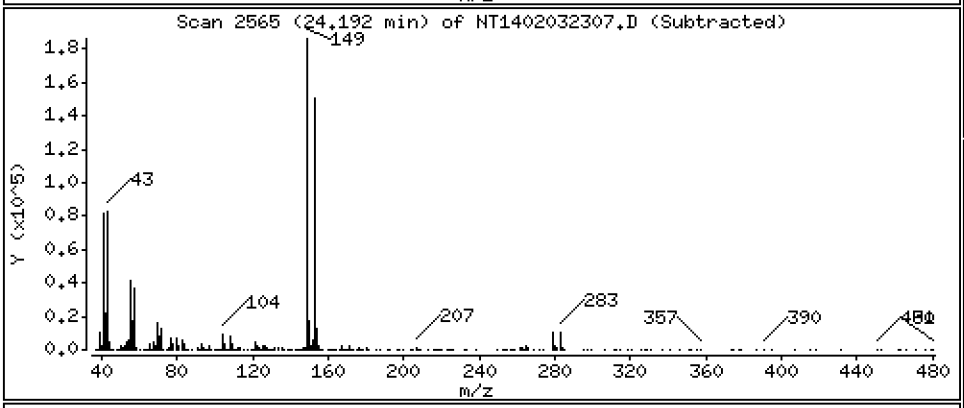
Column diameter: 0.25

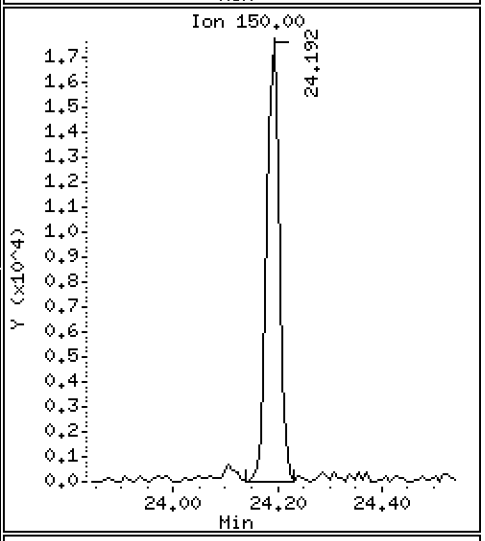
73 Di-n-octylphthalate

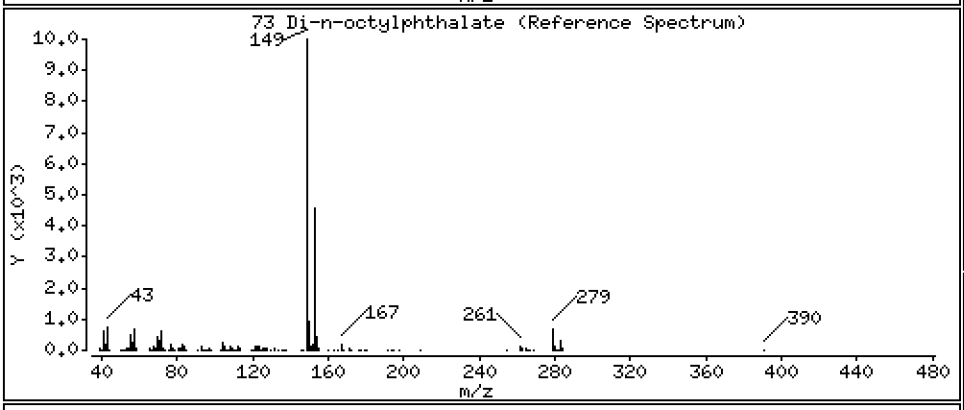
Concentration: 2.436 ug/mL

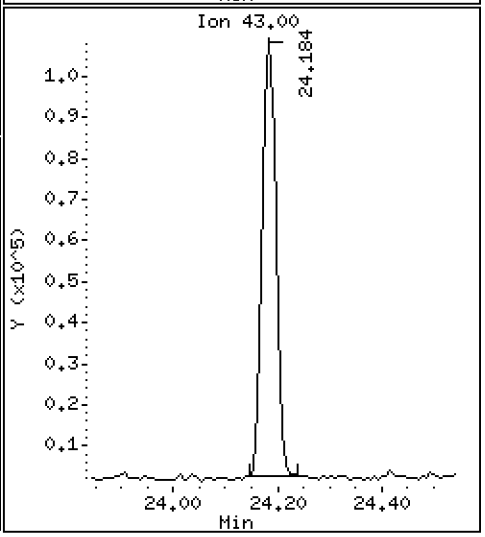


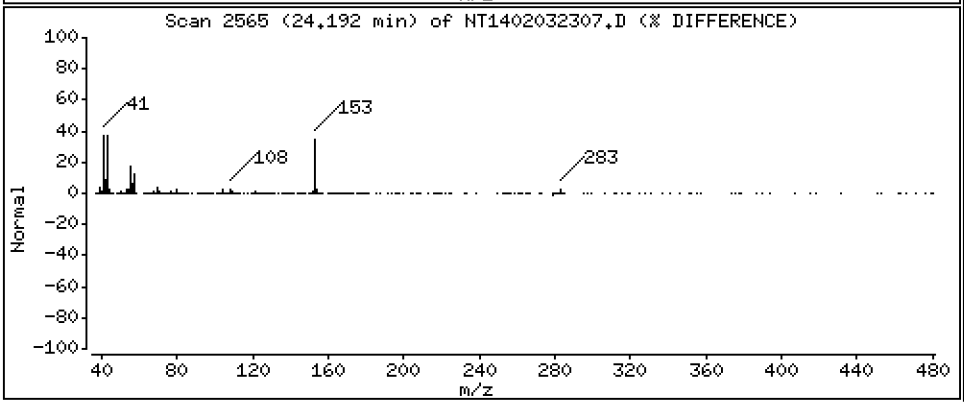












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

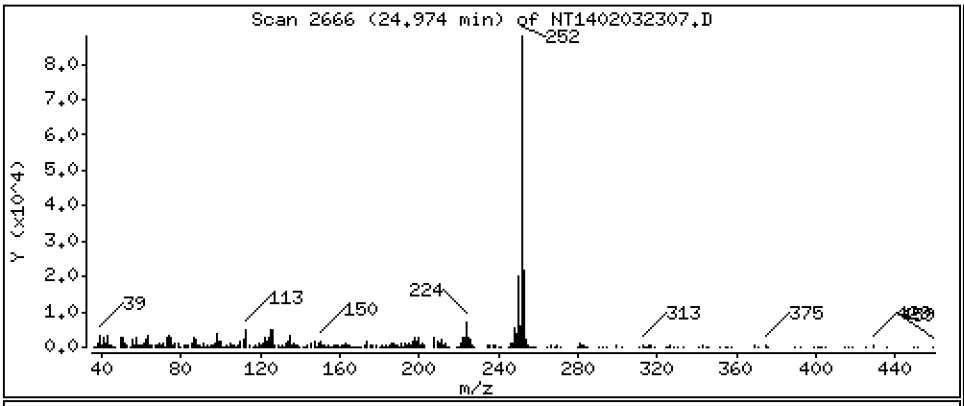
Operator: DSD

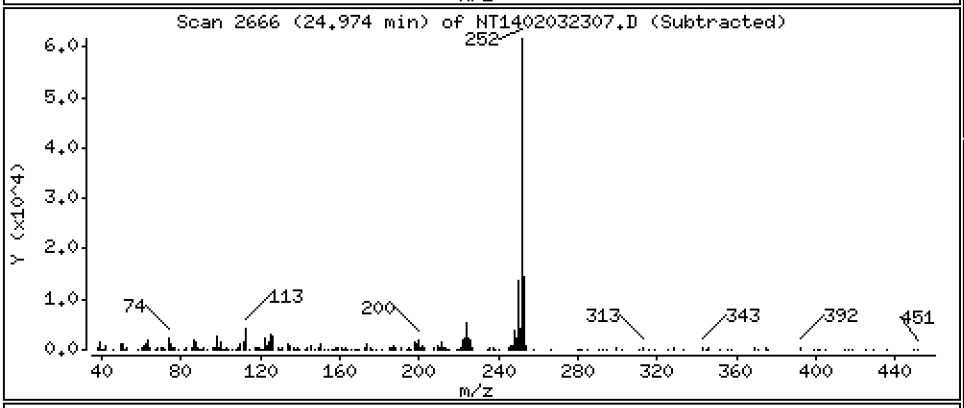
Column phase: ZB-5msi

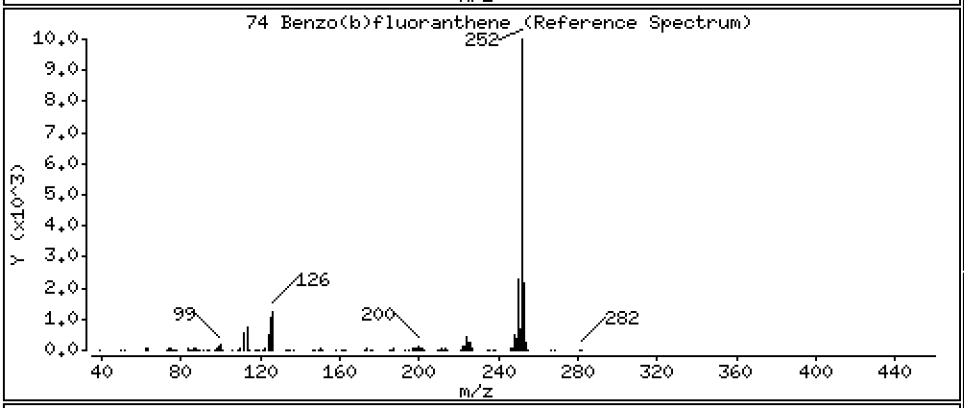
Column diameter: 0.25

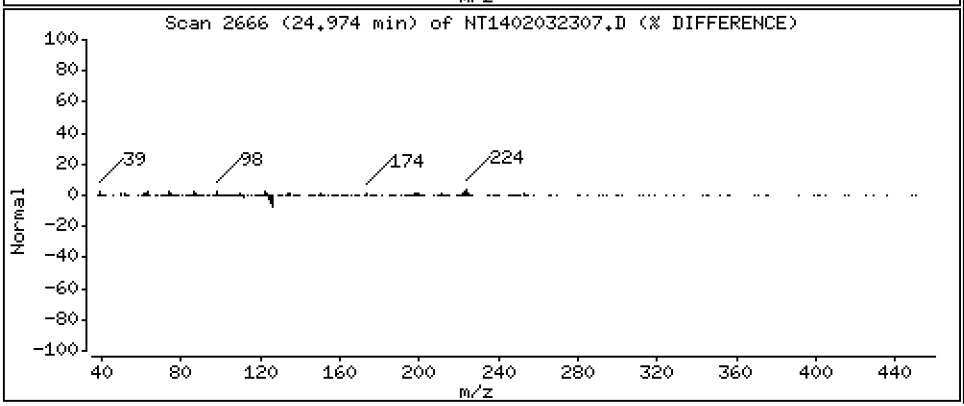
74 Benzo(b)fluoranthene

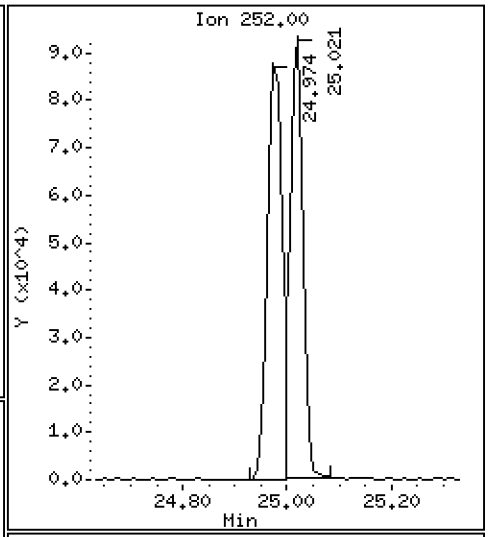
Concentration: 2.347 ug/mL

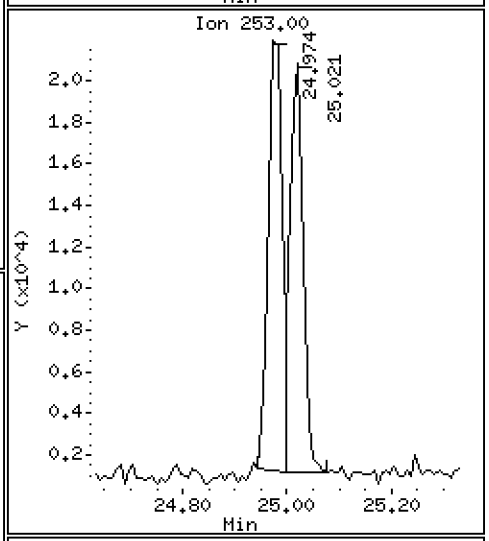


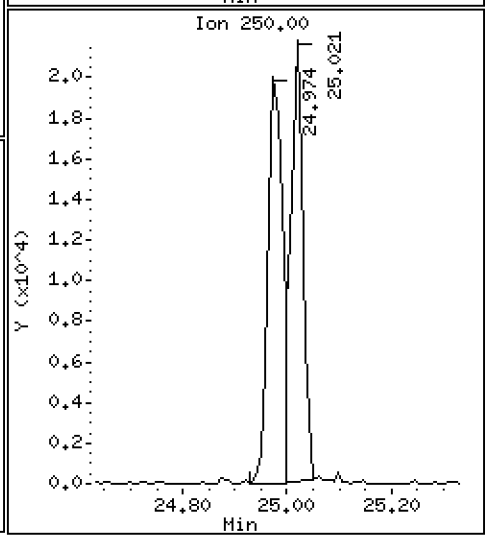












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

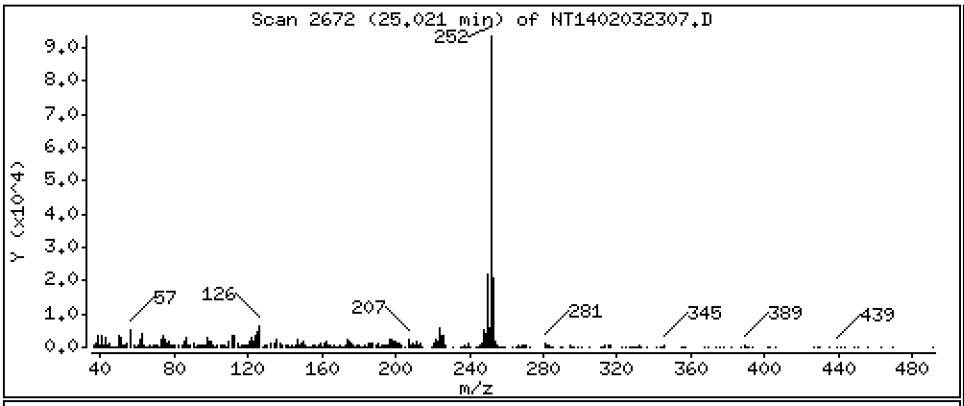
Operator: DSD

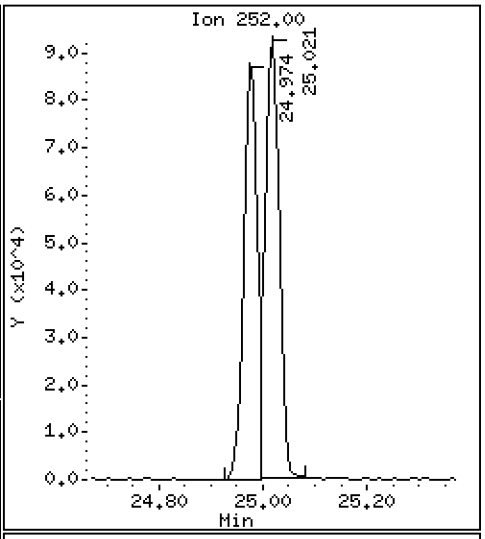
Column phase: ZB-5msi

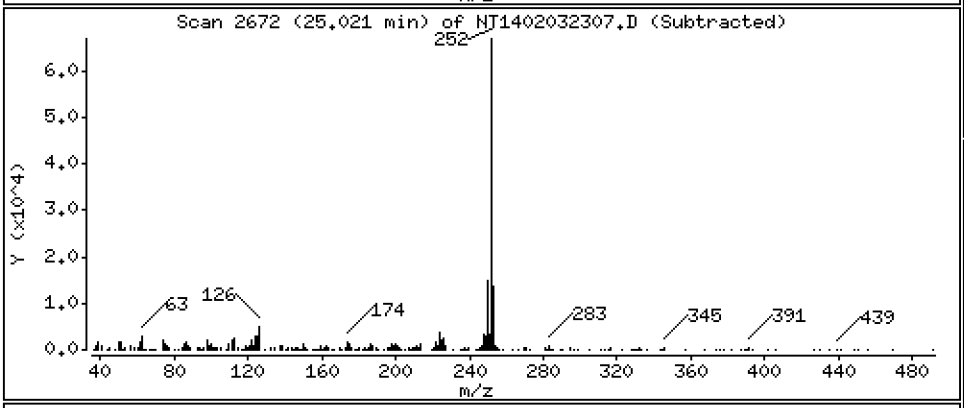
Column diameter: 0.25

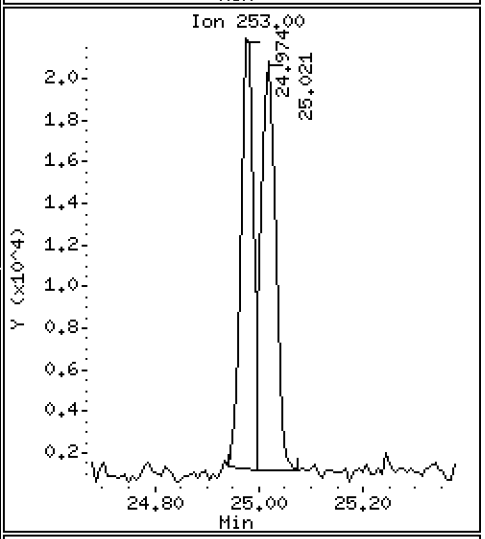
75 Benzo(k)fluoranthene

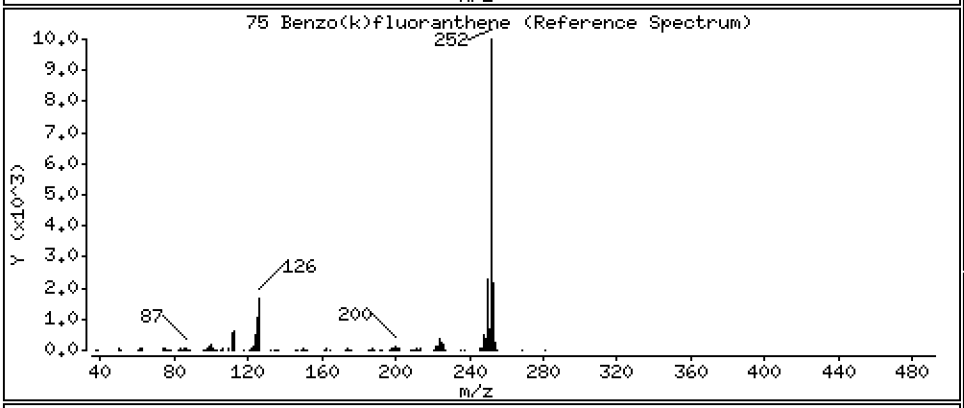
Concentration: 2.342 ug/mL

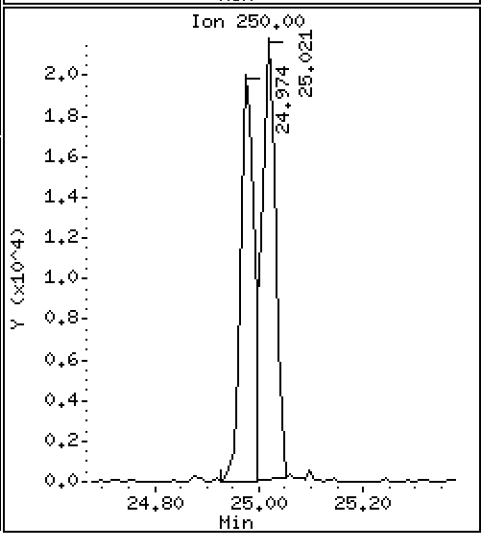


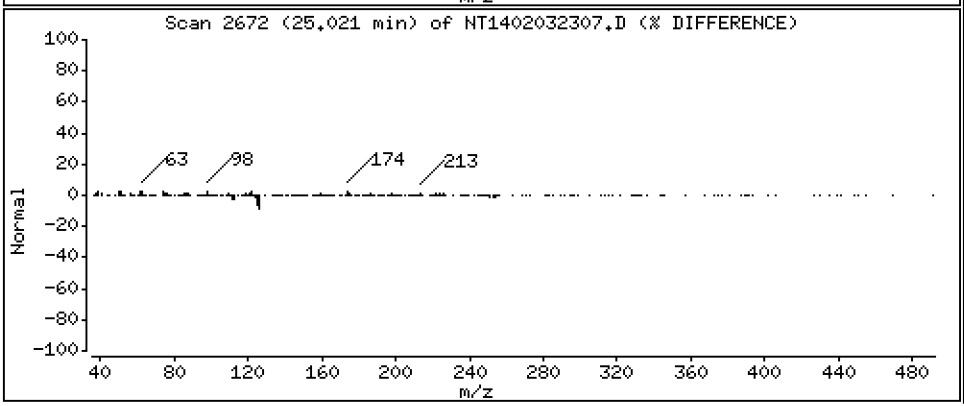












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

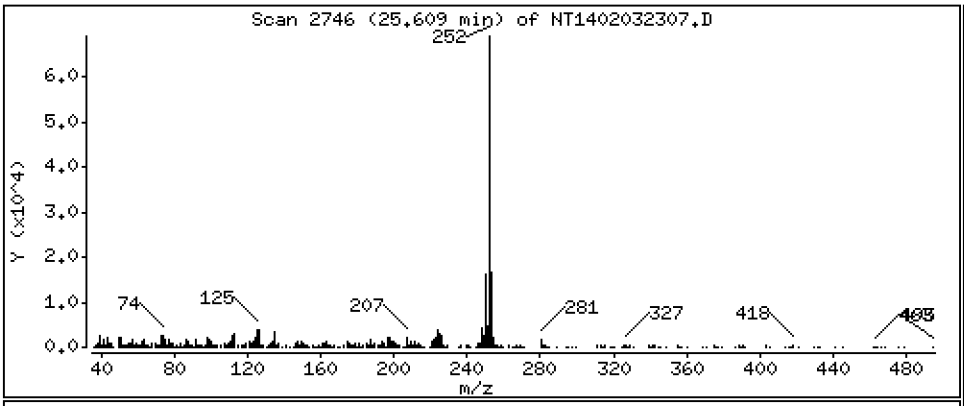
Operator: DSD

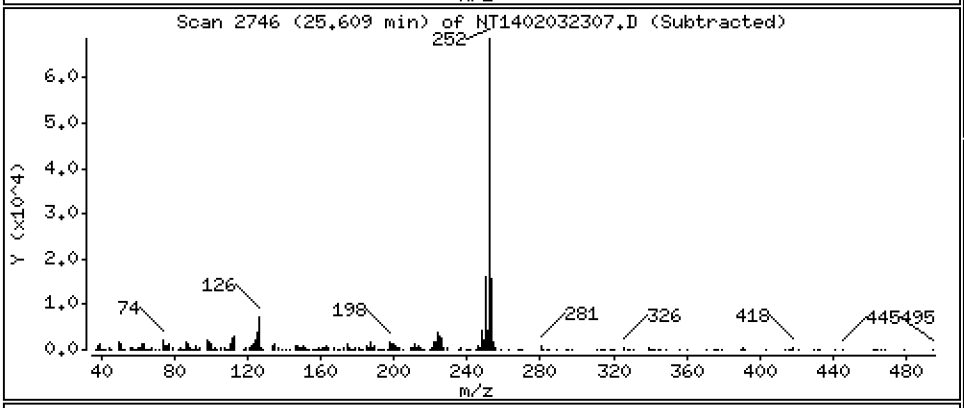
Column phase: ZB-5msi

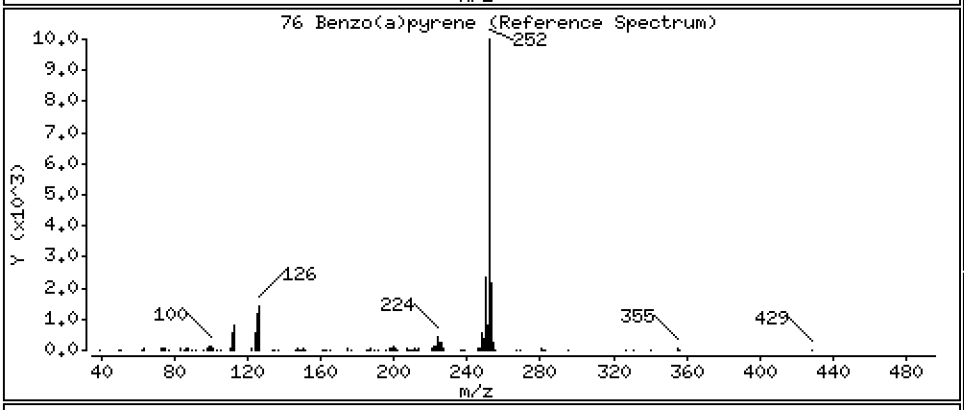
Column diameter: 0.25

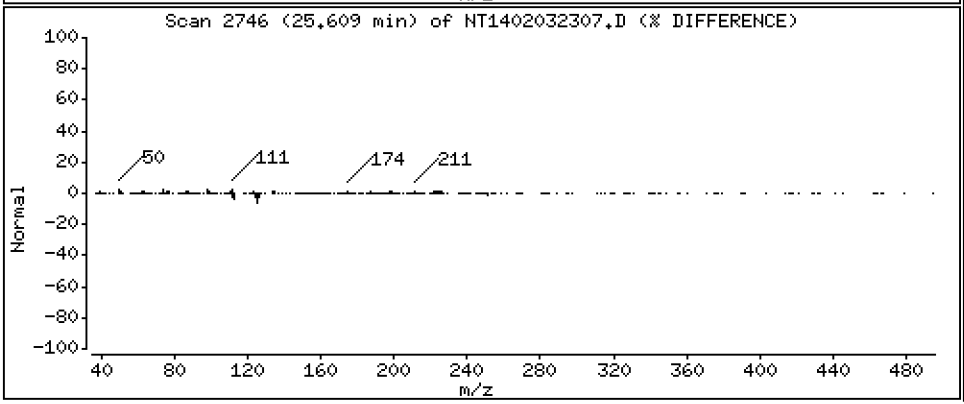
76 Benzo(a)pyrene

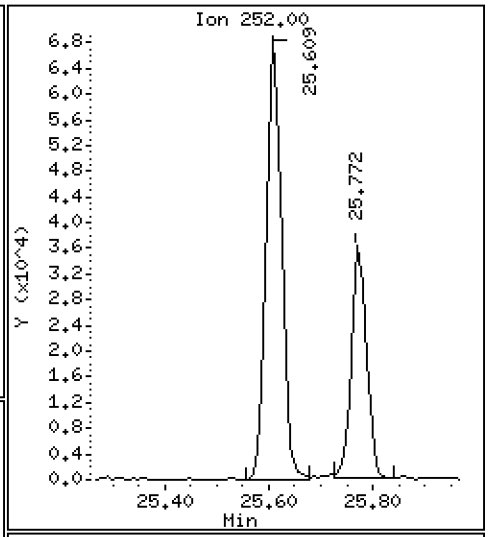
Concentration: 2.243 ug/mL

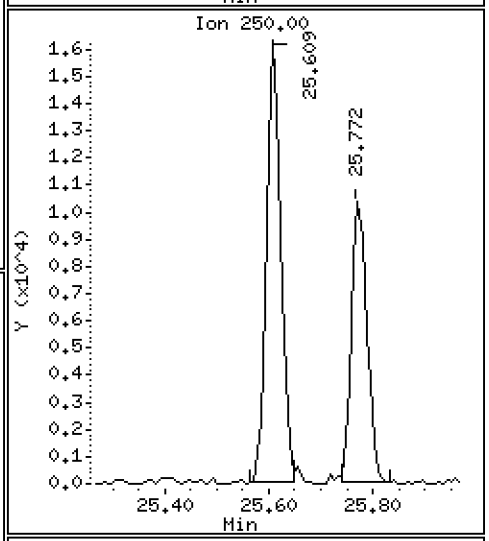


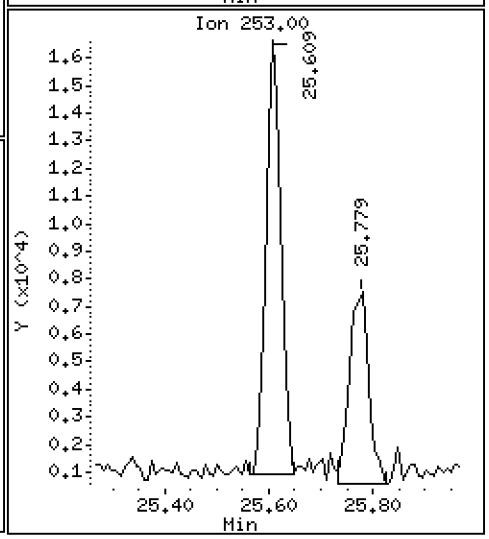












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

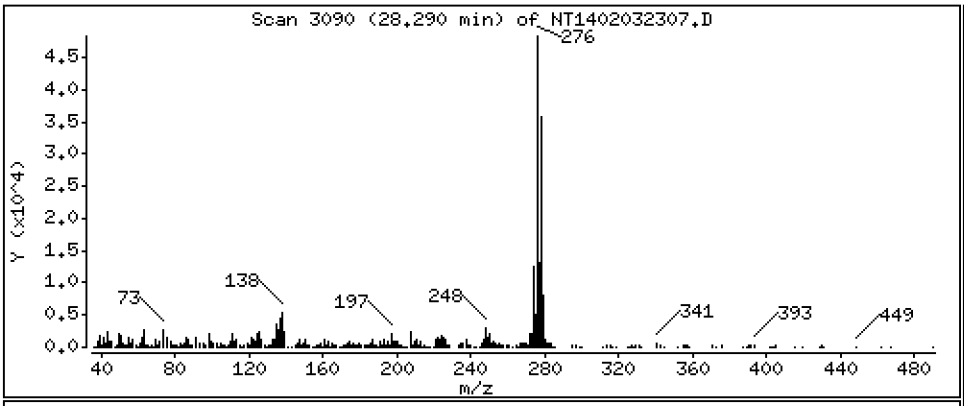
Operator: DSD

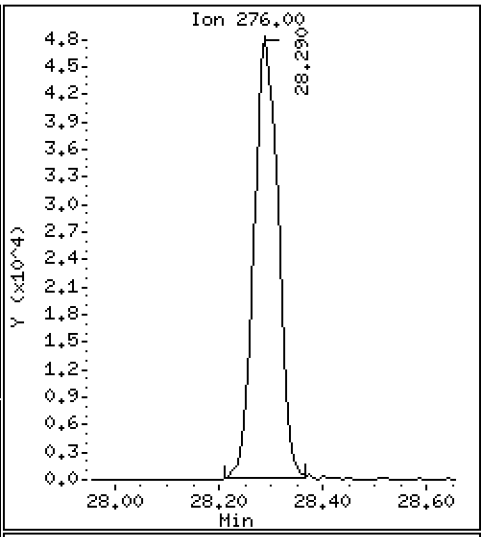
Column phase: ZB-5msi

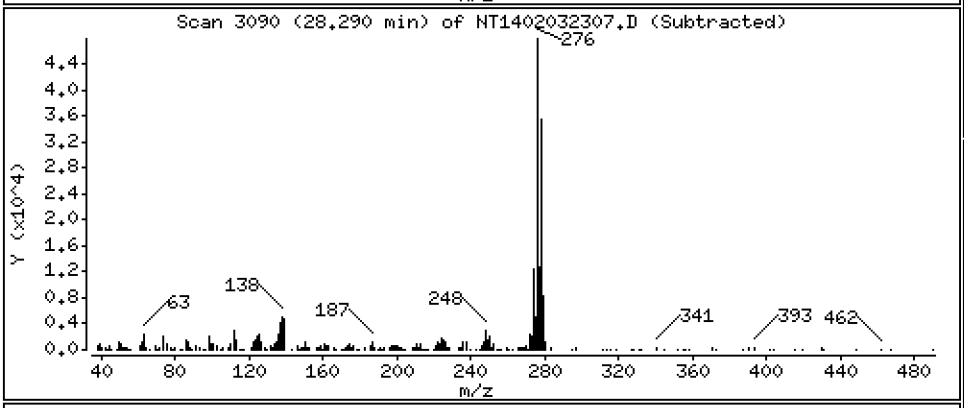
Column diameter: 0.25

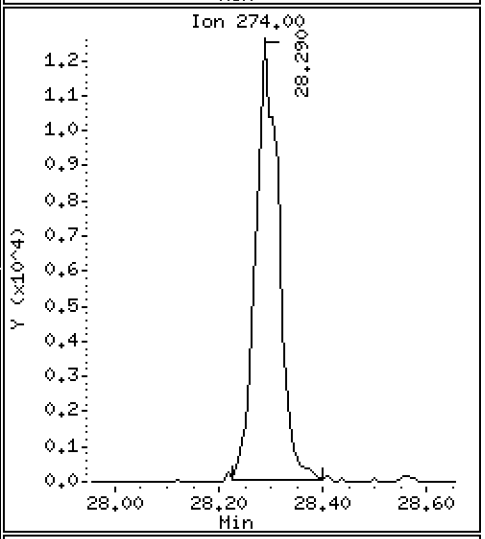
78 Indeno(1,2,3-cd)pyrene

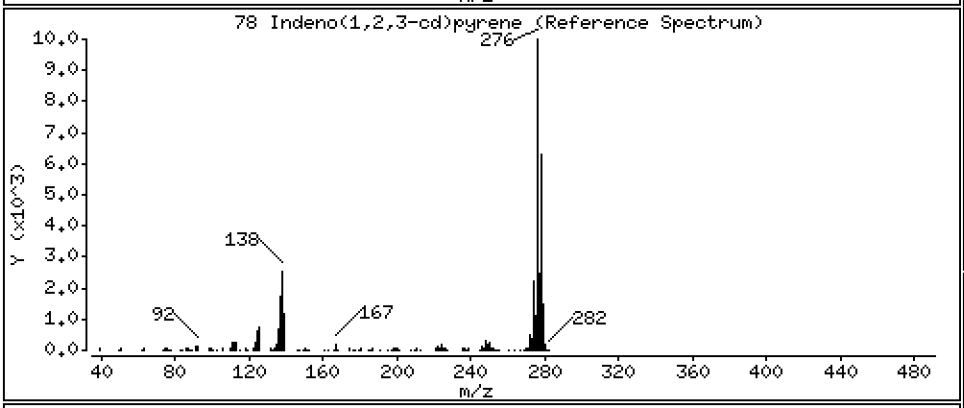
Concentration: 1.989 ug/mL

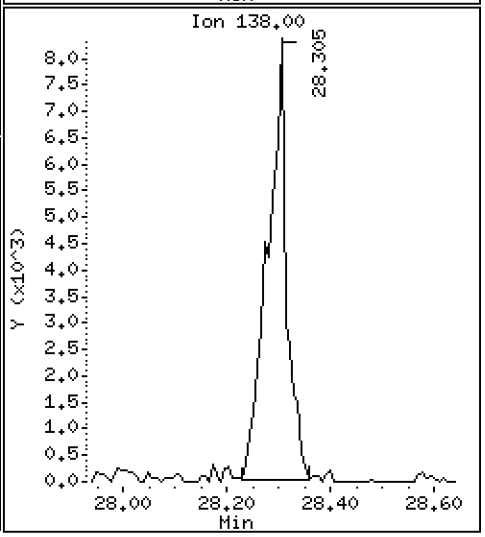


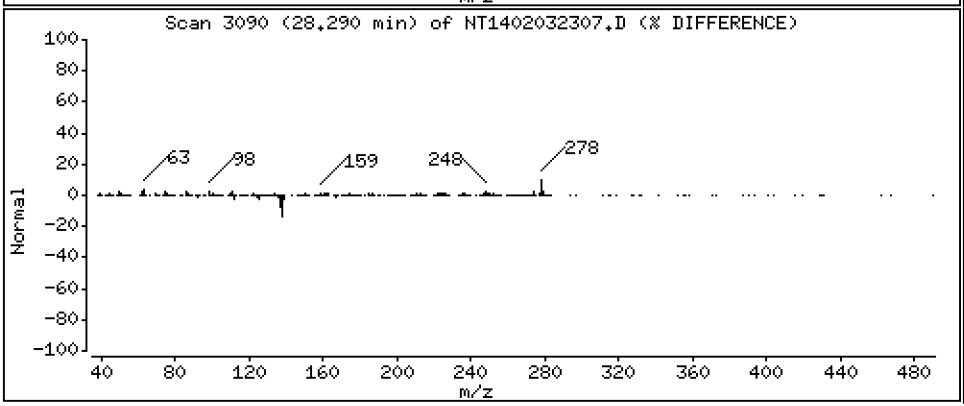












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

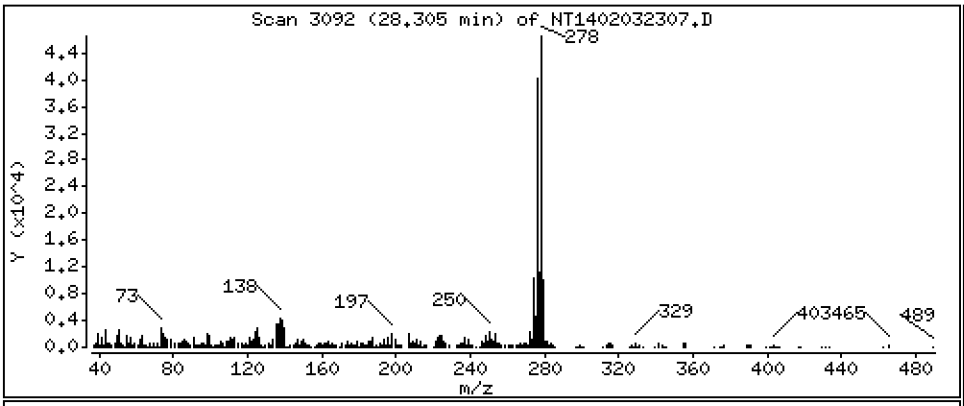
Operator: DSD

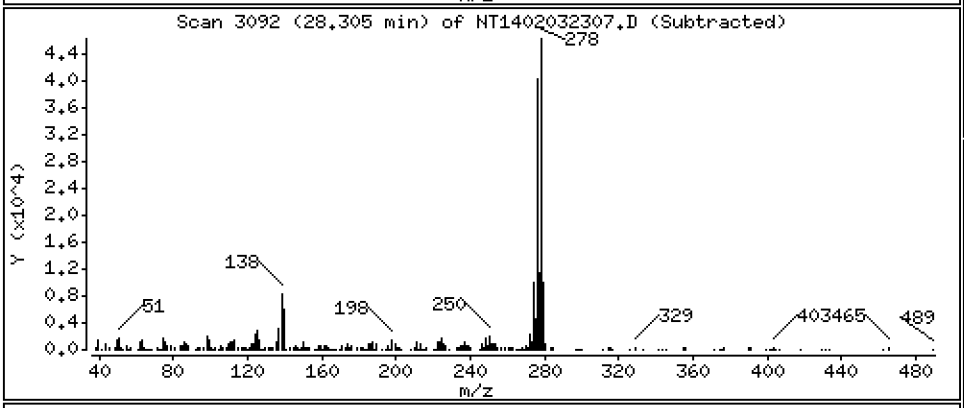
Column phase: ZB-5msi

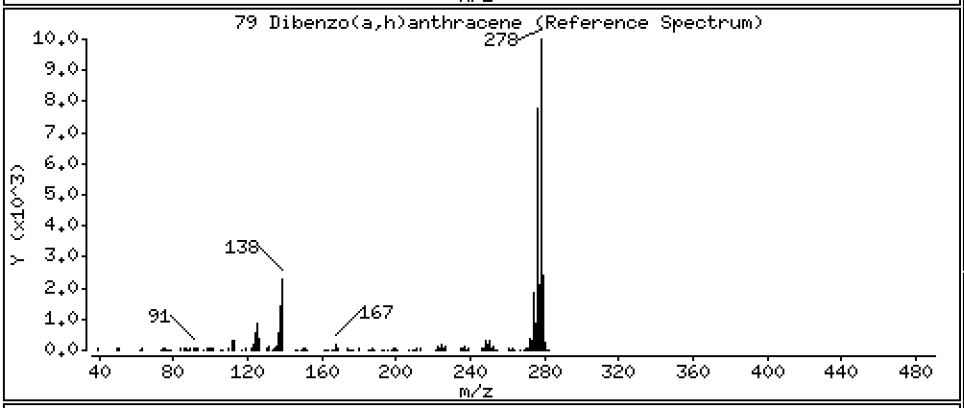
Column diameter: 0.25

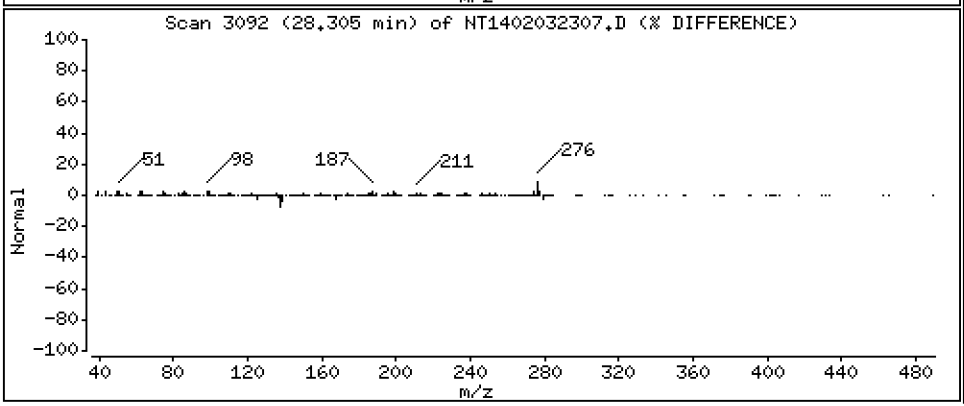
79 Dibenzo(a,h)anthracene

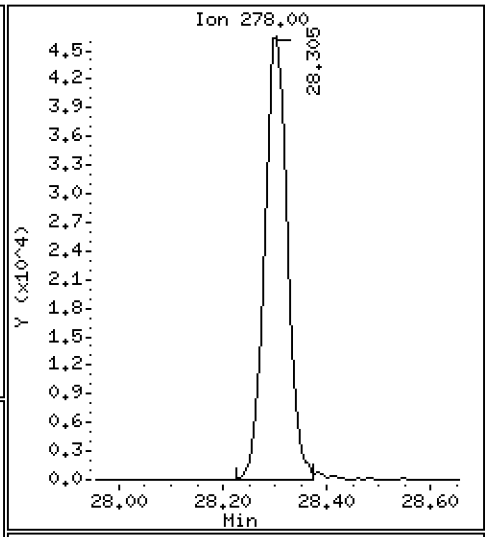
Concentration: 2.081 ug/mL

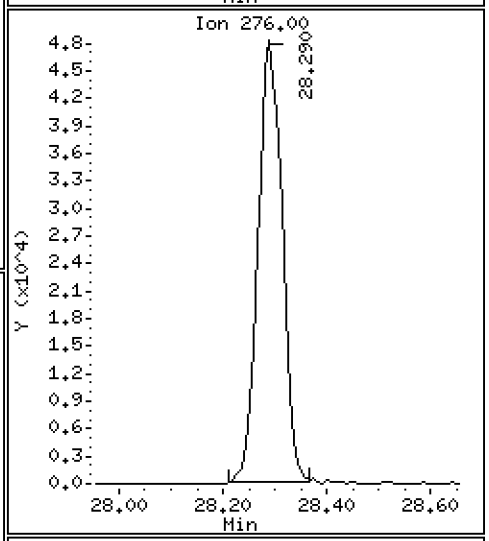


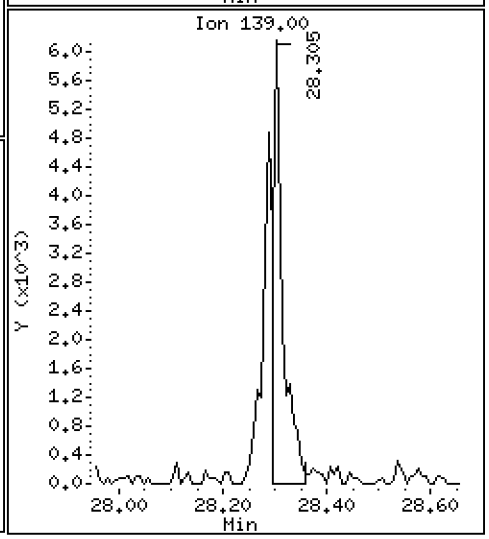












Date : 03-FEB-2023 16:44

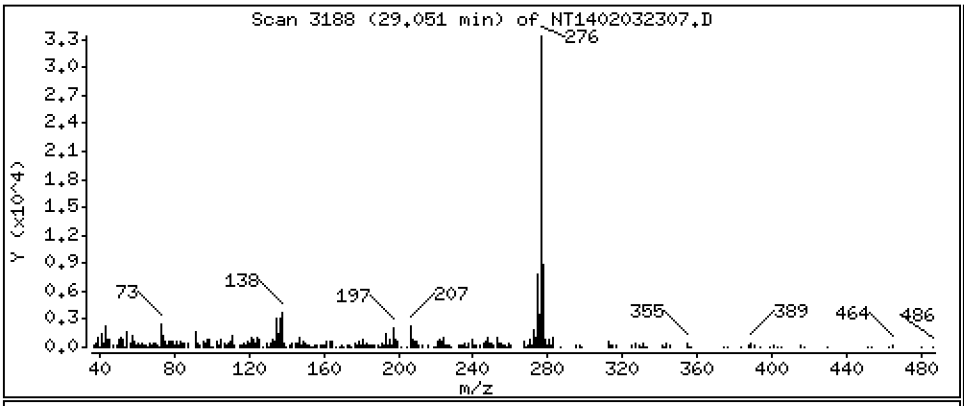
Client ID: Instrument: nt14.i

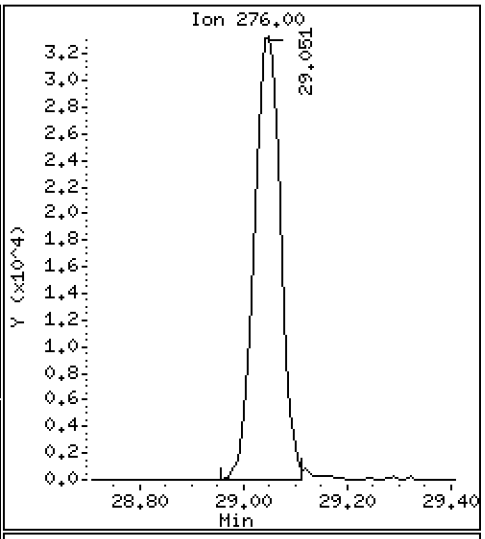
Sample Info: BLA0064-BS1

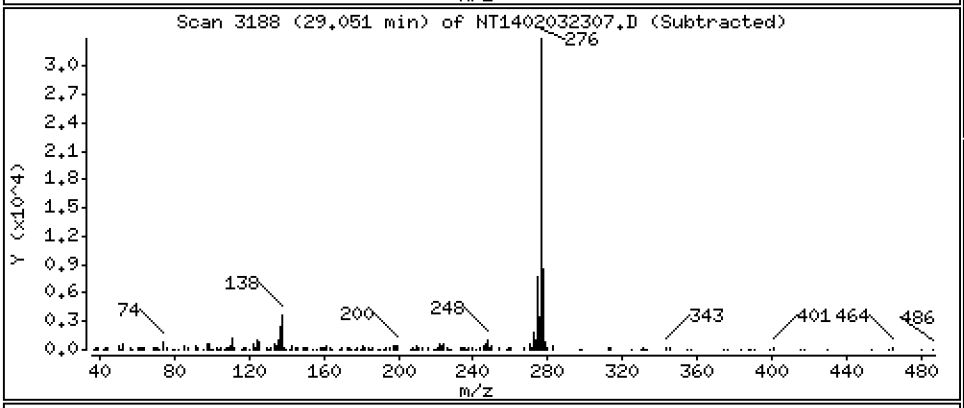
Operator: DSD

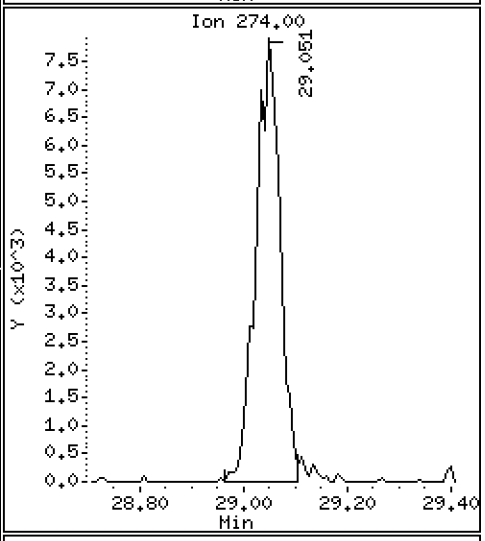
Column phase: ZB-5msi Column diameter: 0.25

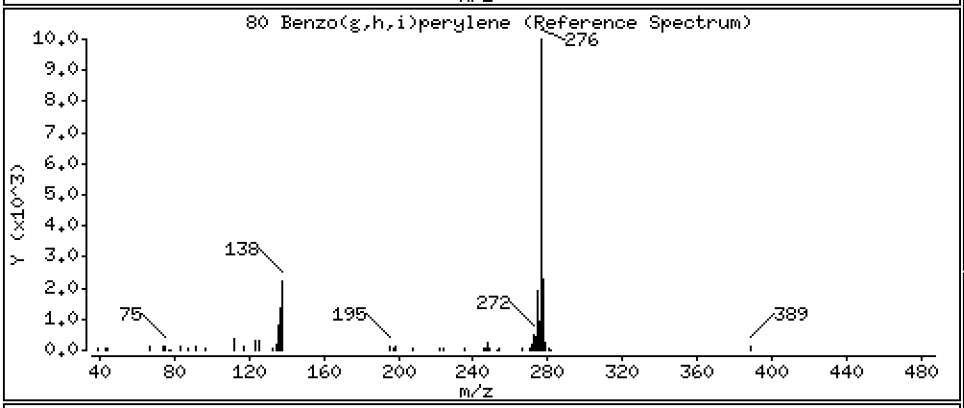
80 Benzo(g,h,i)perylene Concentration: 2.033 ug/mL

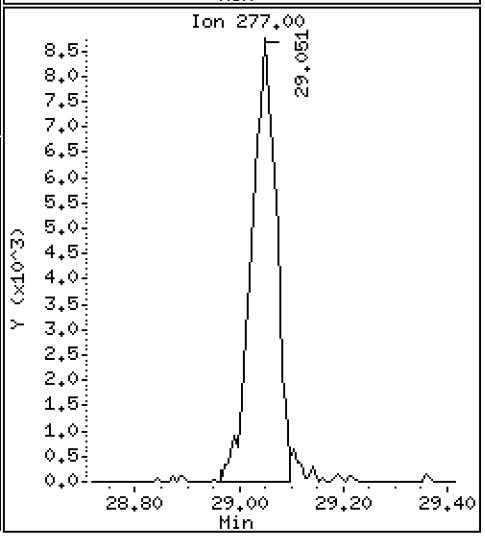


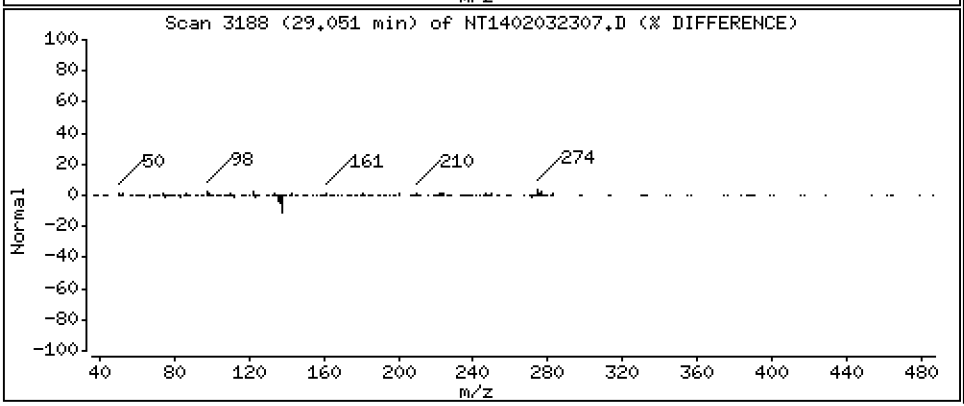












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

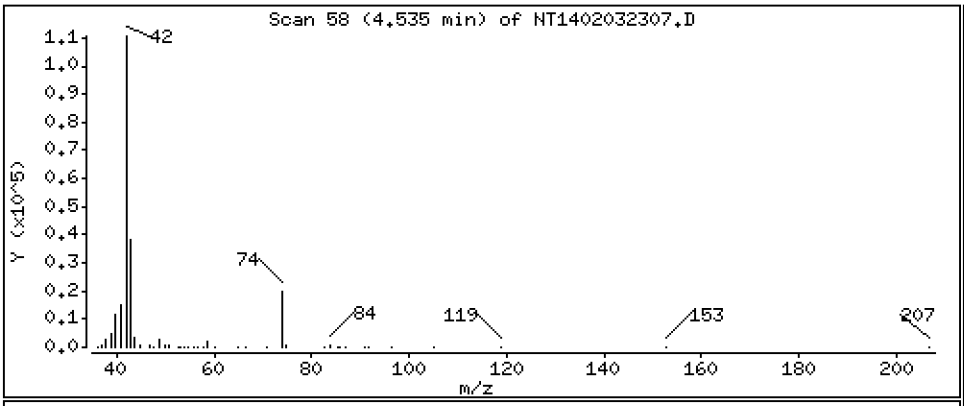
Operator: DSD

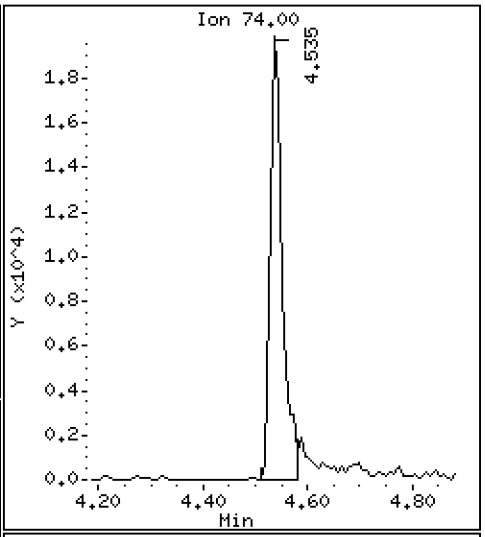
Column phase: ZB-5msi

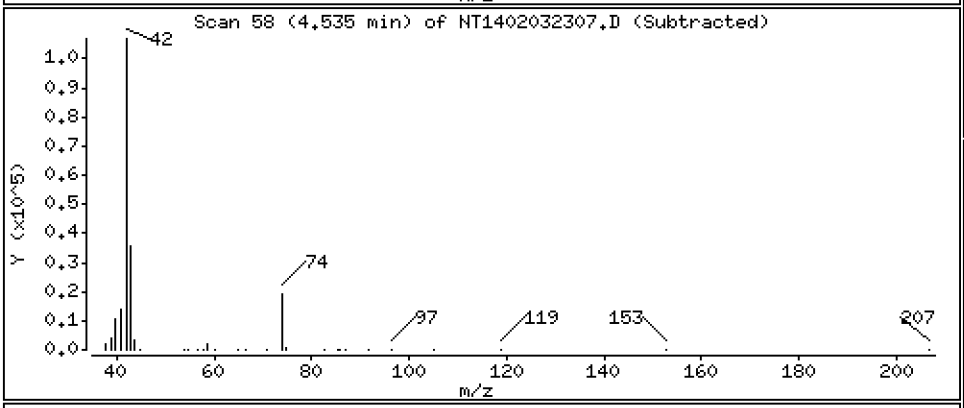
Column diameter: 0.25

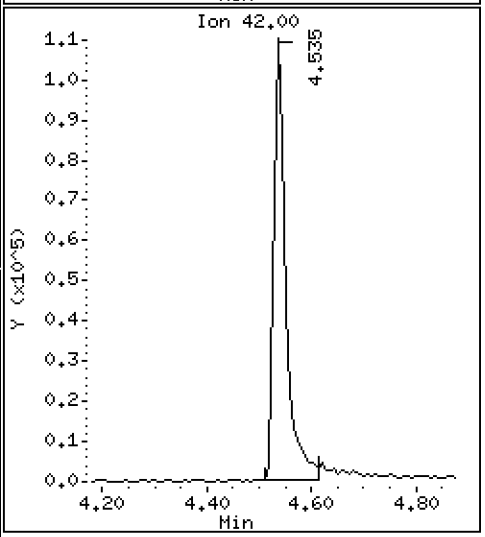
90 N-Nitrosodimethylamine

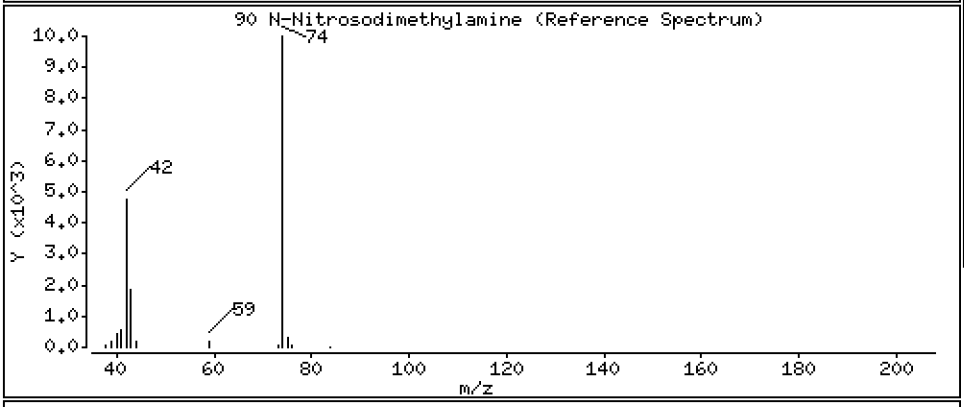
Concentration: 2.911 ug/mL

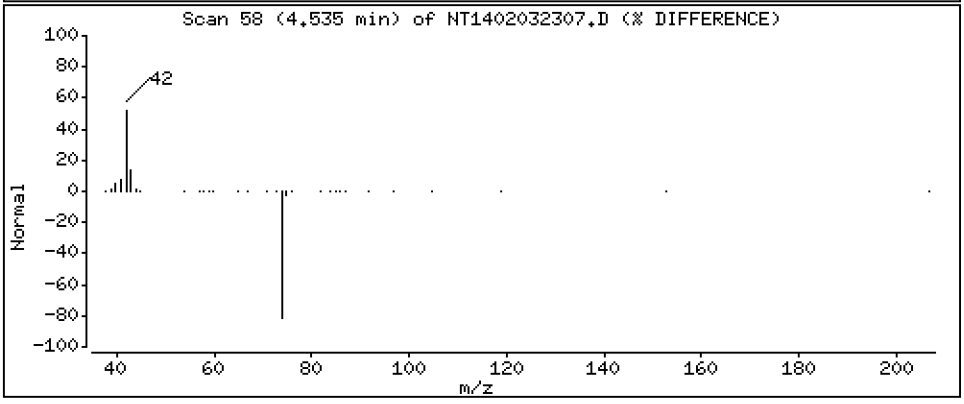












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

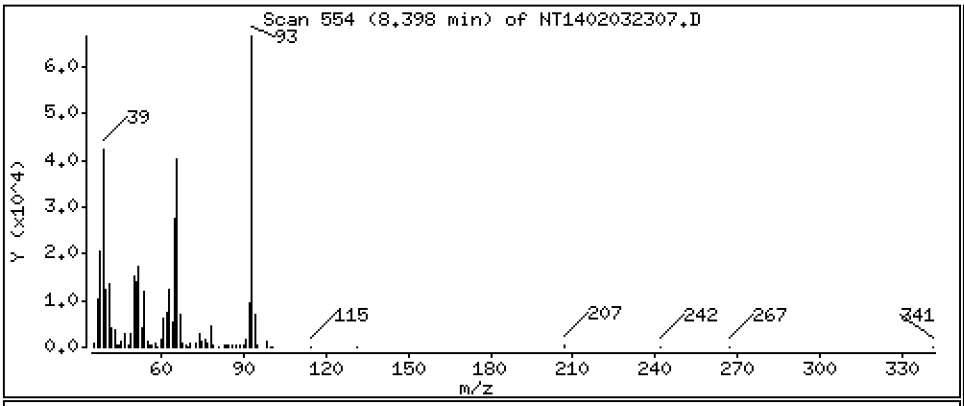
Operator: DSD

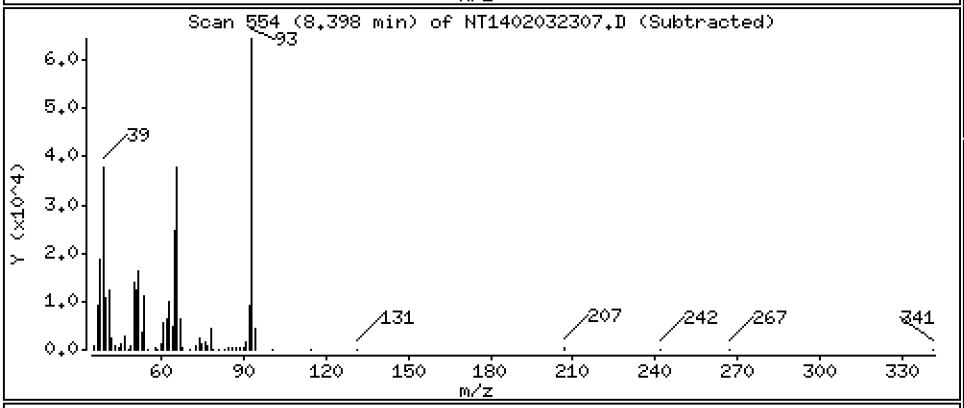
Column phase: ZB-5msi

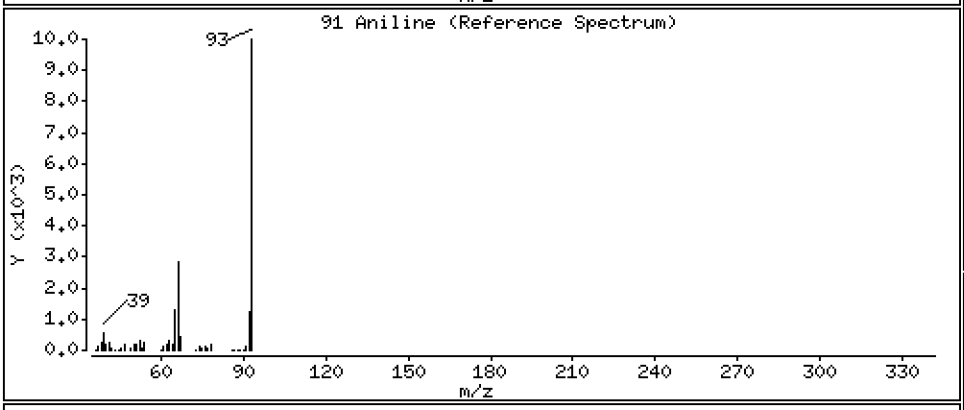
Column diameter: 0.25

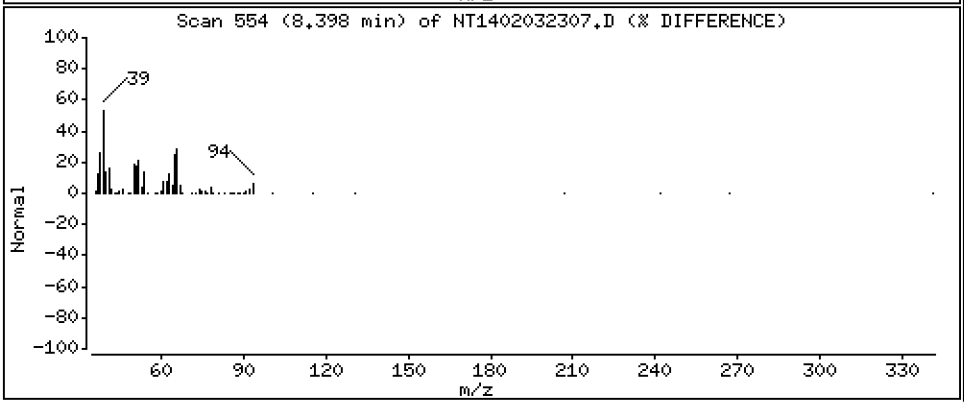
91 Aniline

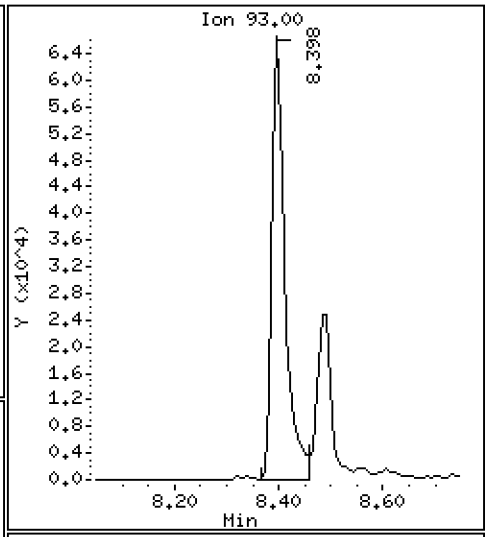
Concentration: 4.601 ug/mL

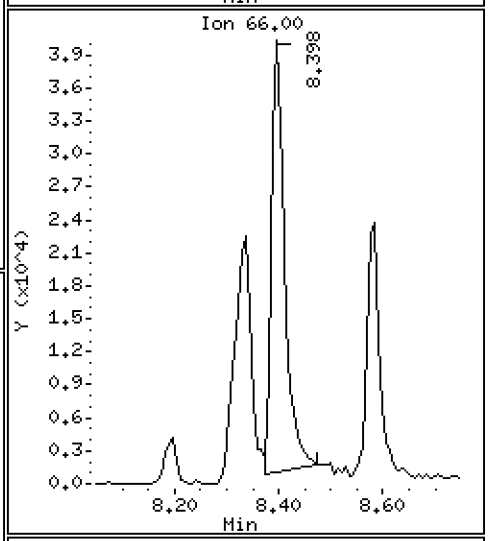


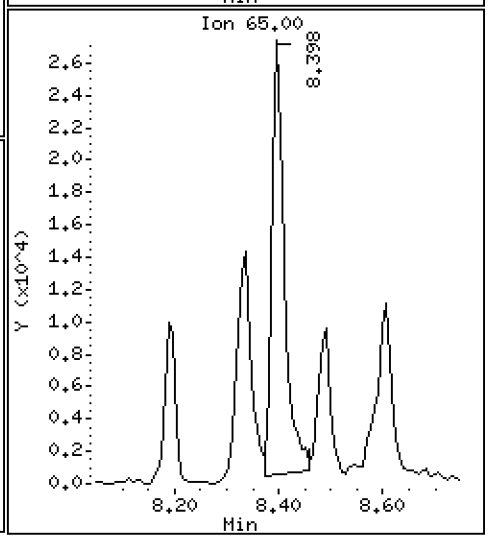












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

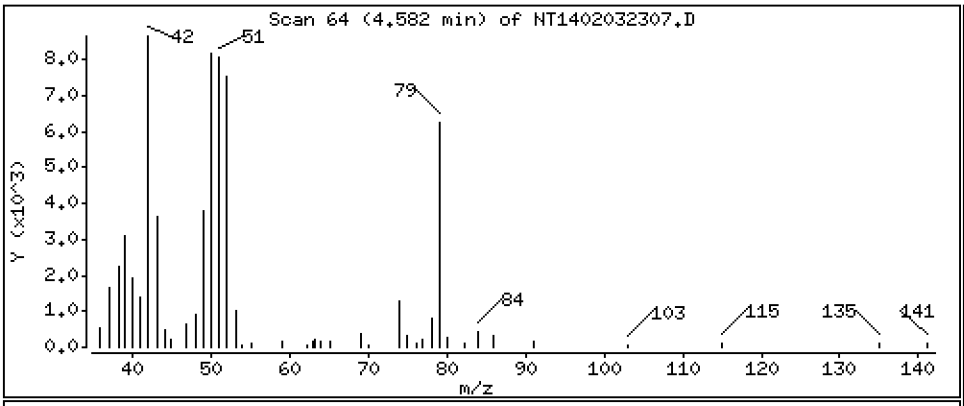
Operator: DSD

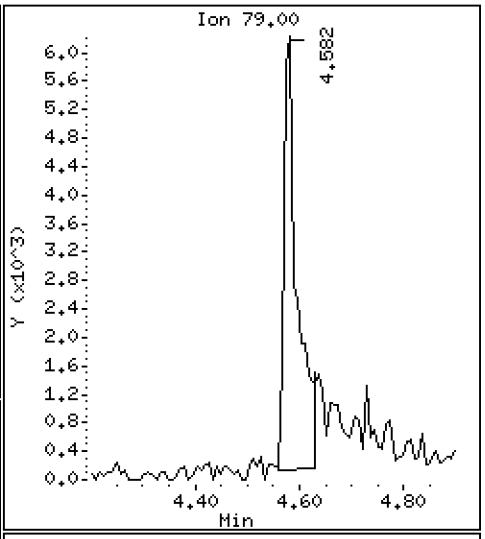
Column phase: ZB-5msi

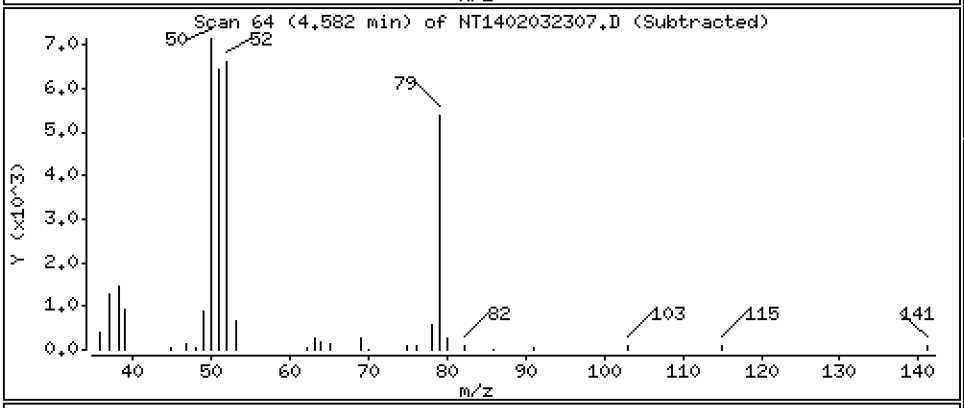
Column diameter: 0.25

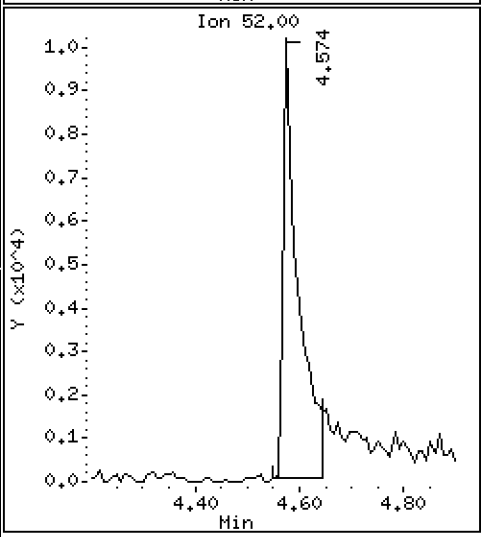
103 Pyridine

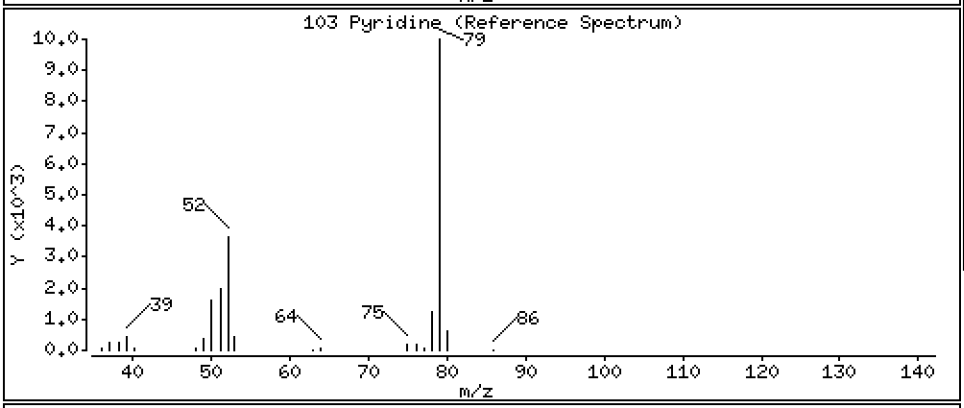
Concentration: 0.3679 ug/mL

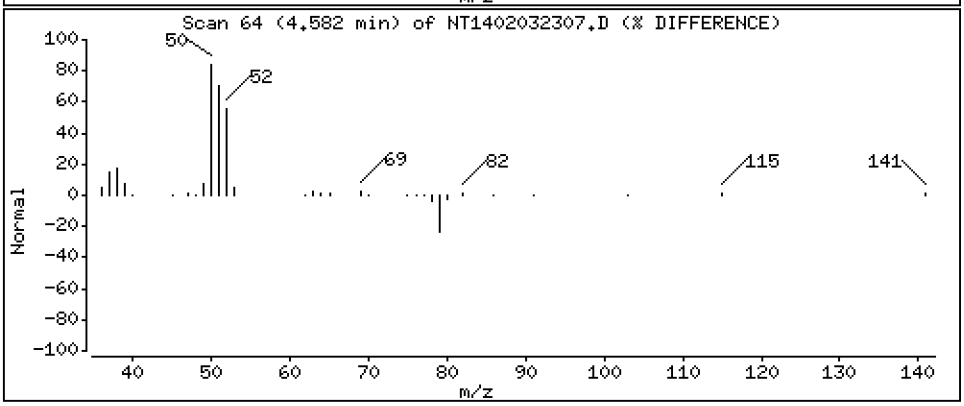












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

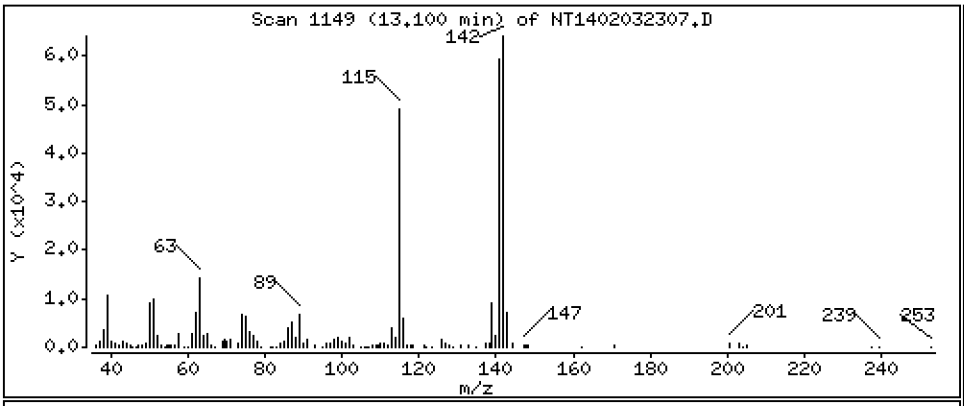
Operator: DSD

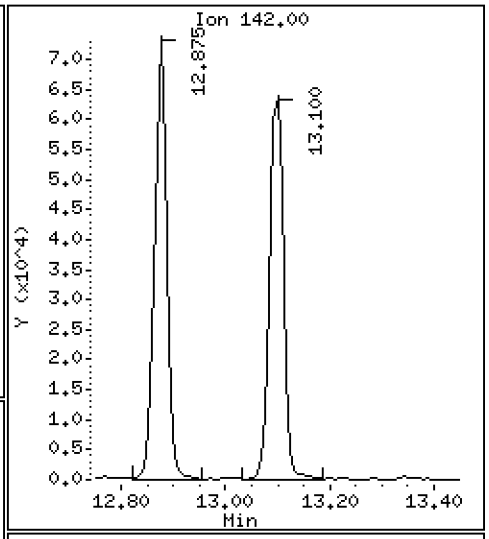
Column phase: ZB-5msi

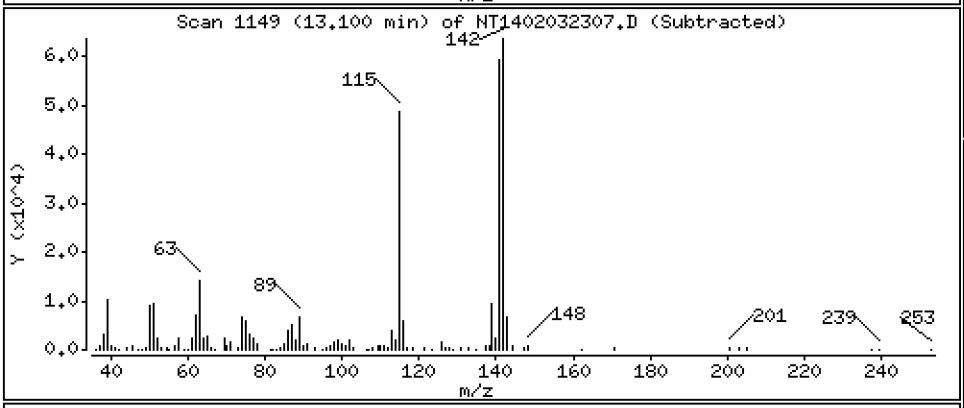
Column diameter: 0.25

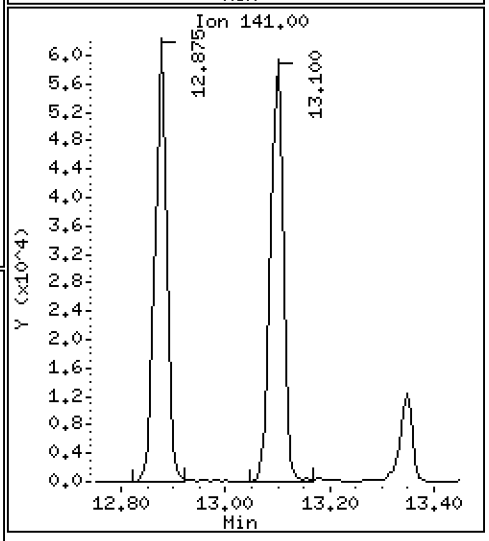
105 1-methylnaphthalene

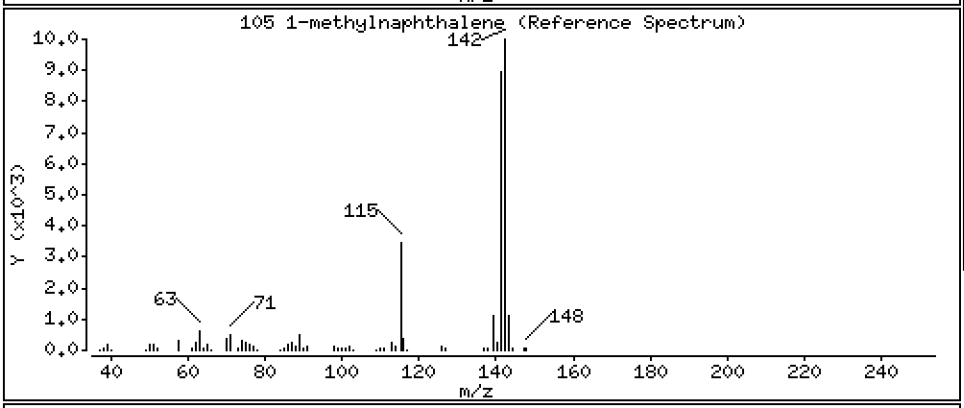
Concentration: 2.167 ug/mL

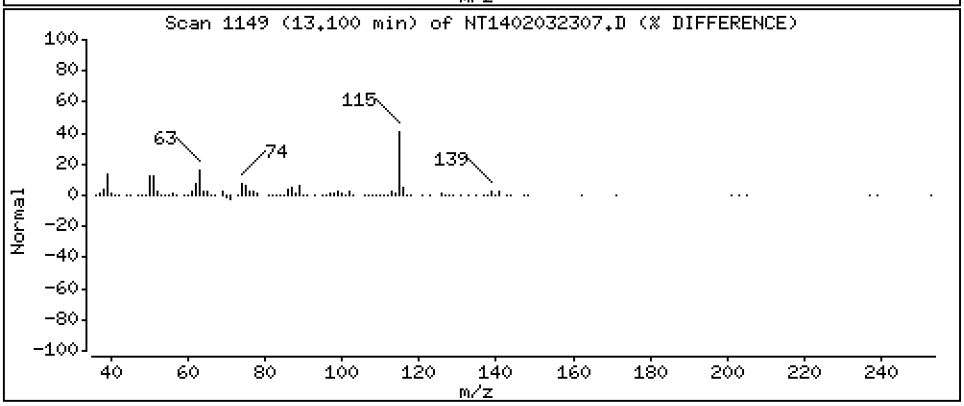












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

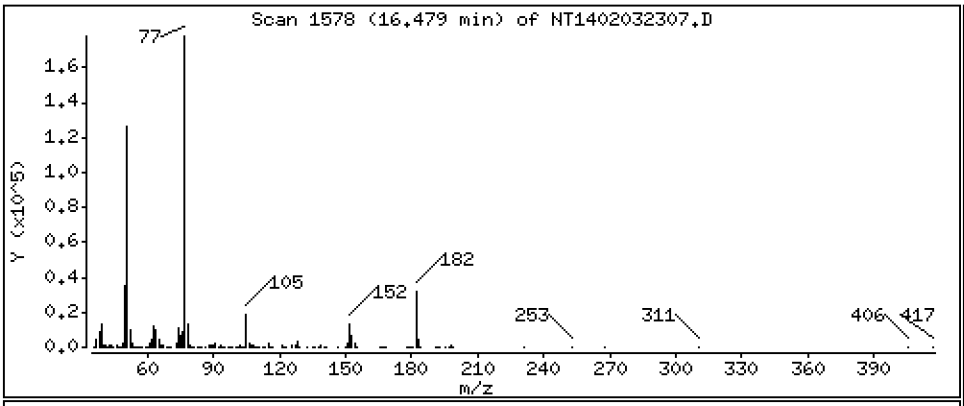
Operator: DSD

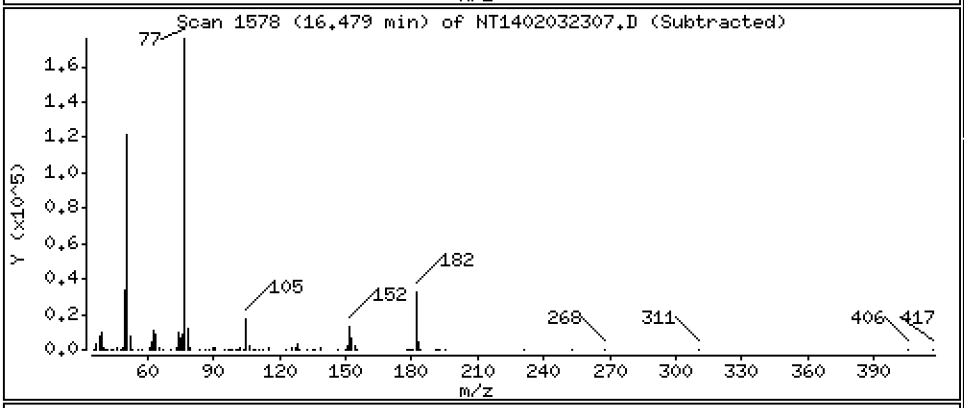
Column phase: ZB-5msi

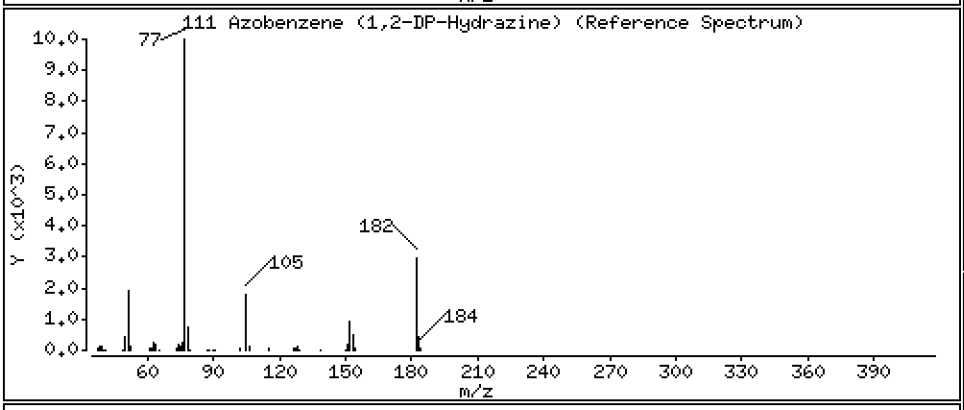
Column diameter: 0.25

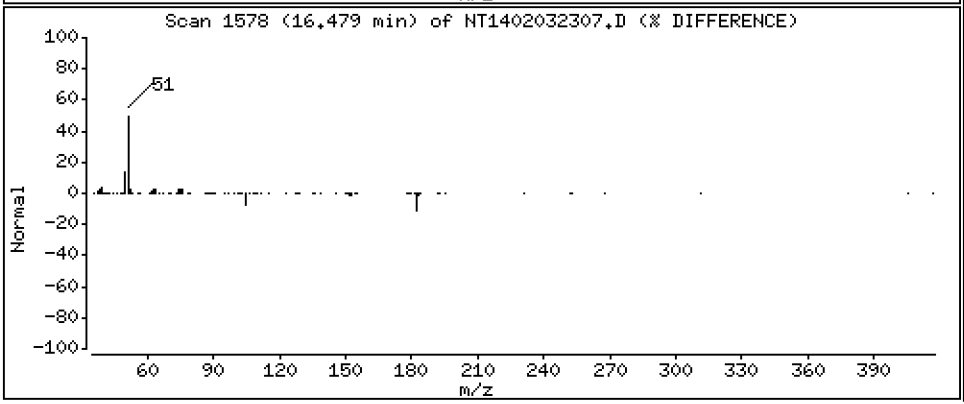
111 Azobenzene (1,2-DP-Hydrazine)

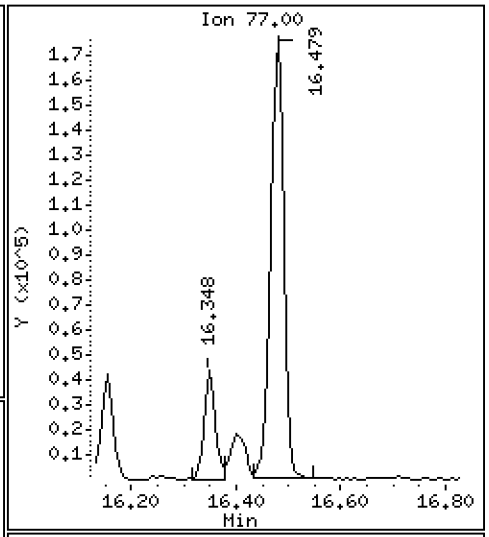
Concentration: 2.118 ug/mL

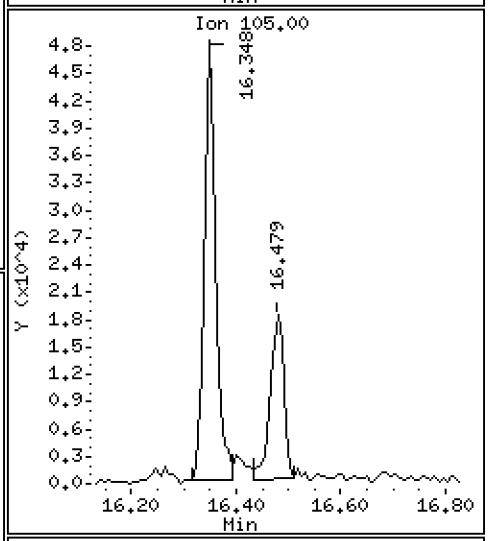


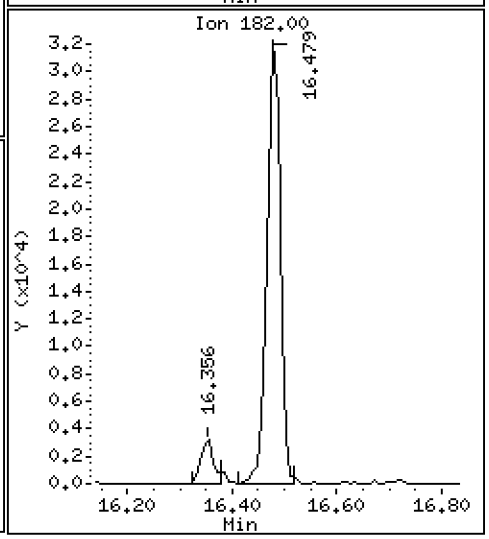












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032307.D

Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

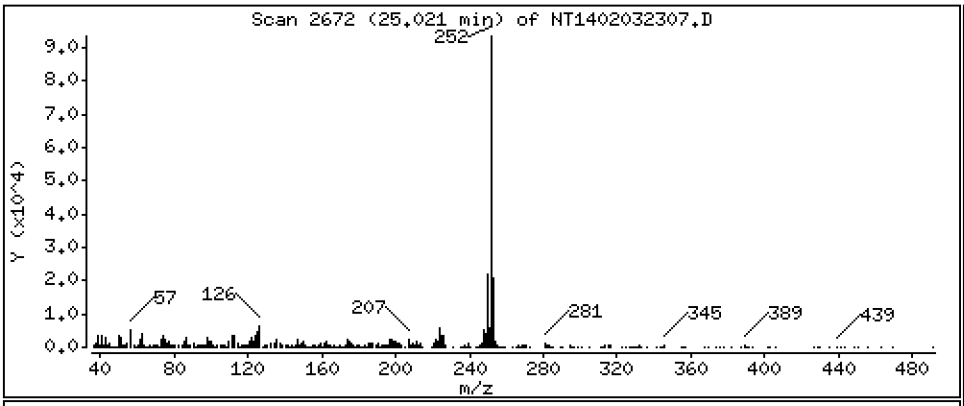
Operator: DSD

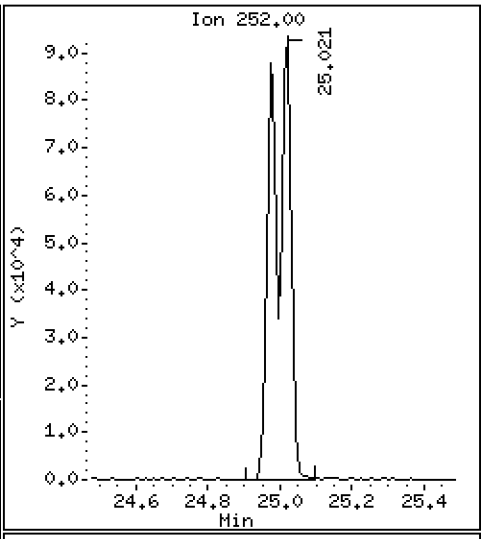
Column phase: ZB-5msi

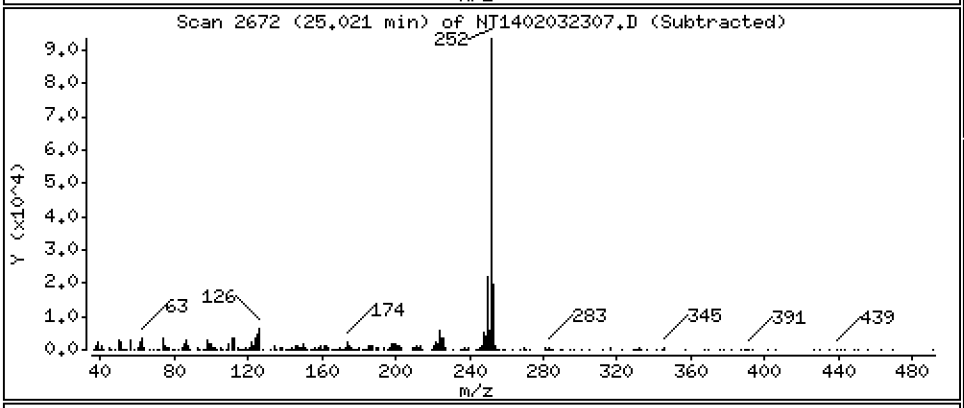
Column diameter: 0.25

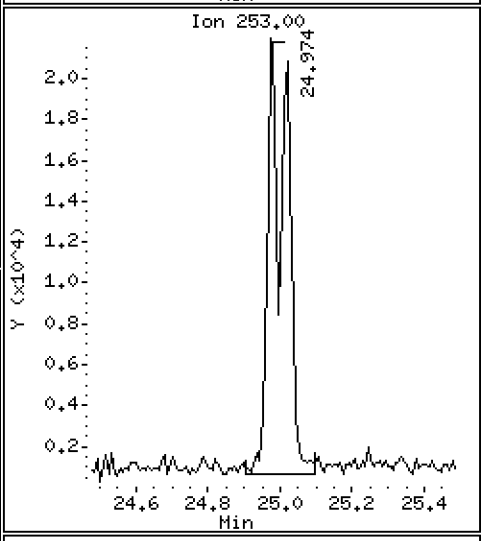
187 Total Benzofluoranthenes

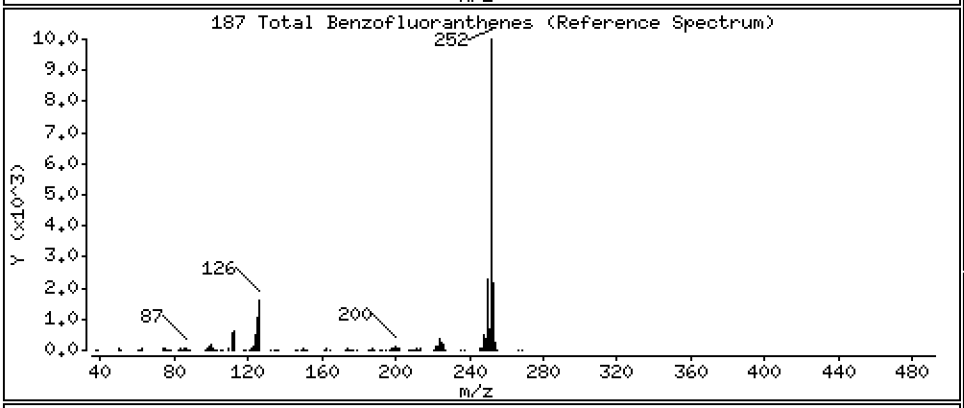
Concentration: 4.680 ug/mL

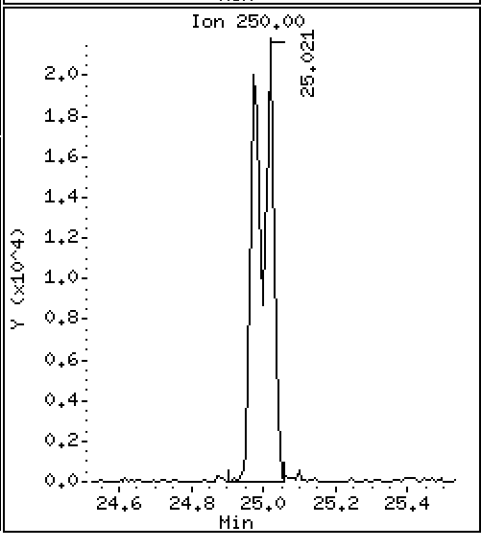


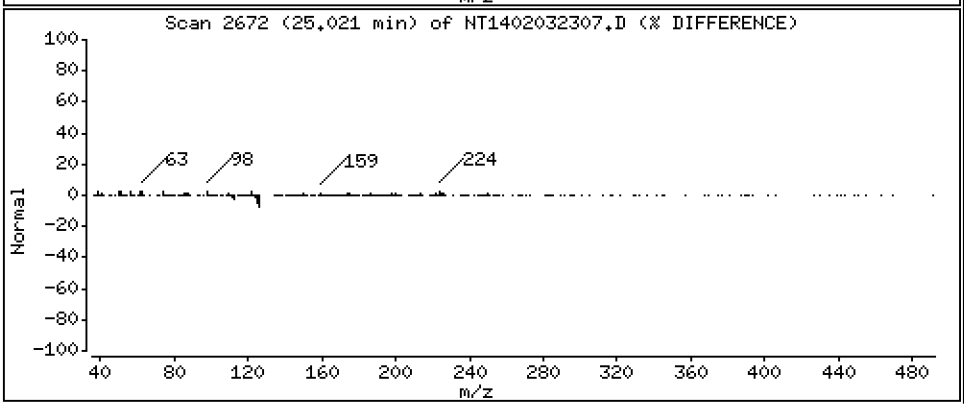












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Date : 03-FEB-2023 16:44

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BS1

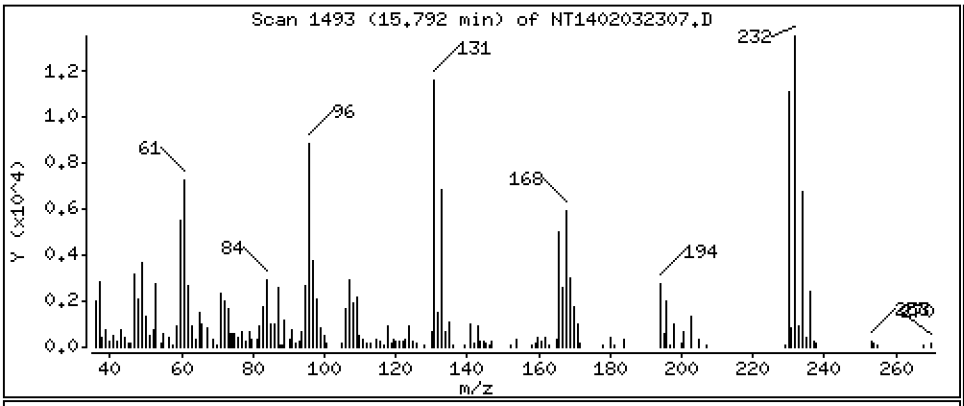
Operator: DSD

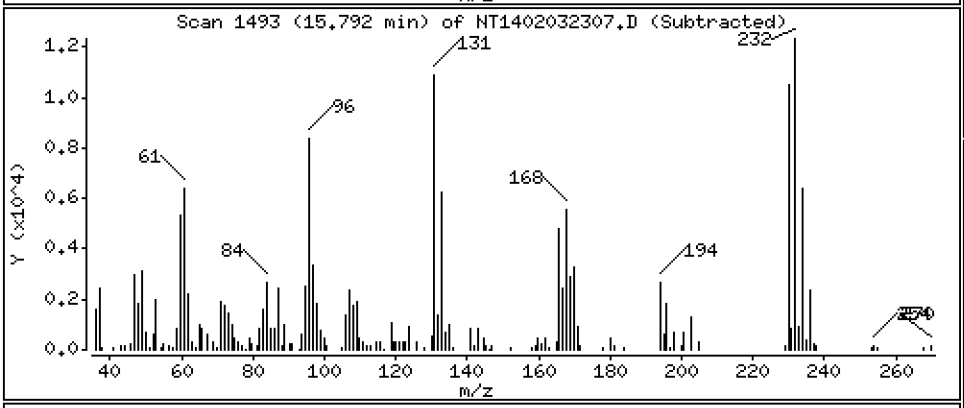
Column phase: ZB-5msi

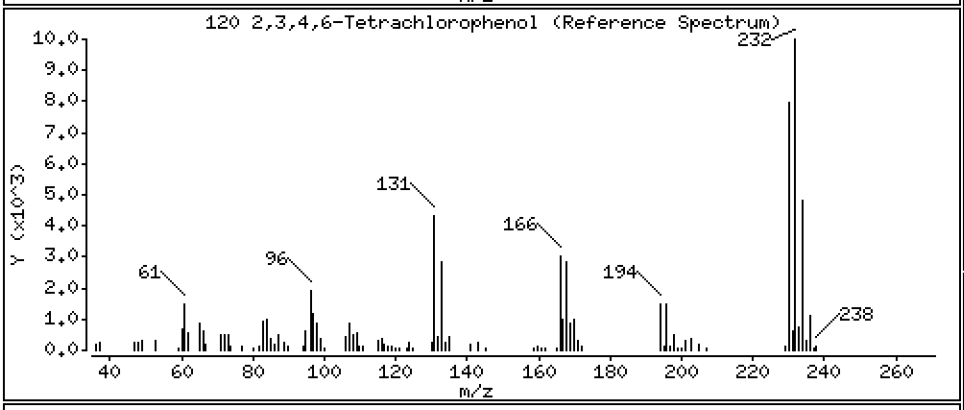
Column diameter: 0.25

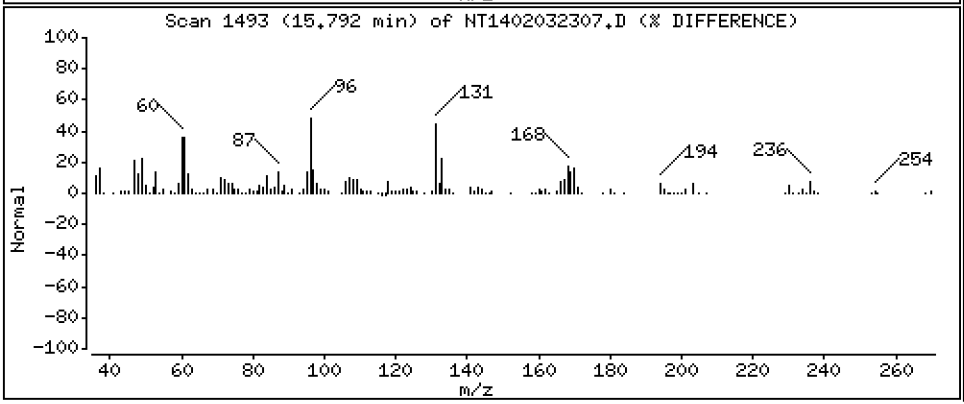
120 2,3,4,6-Tetrachlorophenol

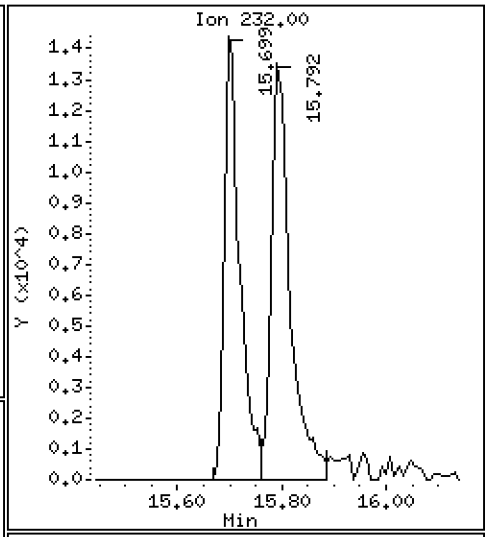
Concentration: 1.500 ug/mL

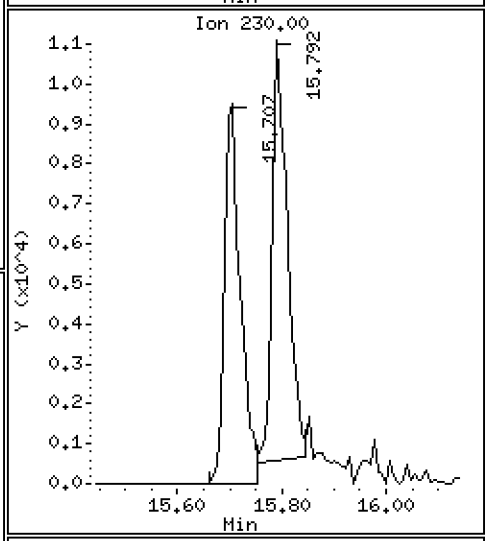


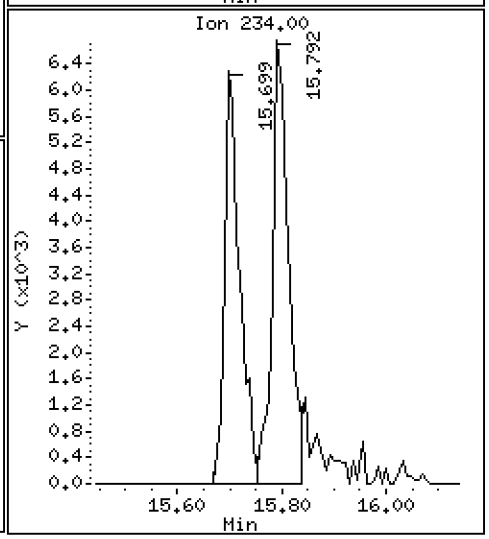












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 03-FEB-2023 16:44 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : BLA0064-BS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.720	6.720	(0.752)	44674	2.54903	2.549
$	2 Phenol-d5	99	8.312	8.312	(0.930)	65490	2.84403	2.844
	3 Phenol	94	8.336	8.336	(0.933)	43990	1.55746	1.557
$	5 2-Chlorophenol-d4	132	8.583	8.583	(0.960)	69120	3.10340	3.103
	4 Bis(2-Chloroethyl)ether	93	8.482	8.490	(0.949)	41693	2.56652	2.567
	6 2-Chlorophenol	128	8.606	8.606	(0.963)	40648	1.73325	1.733
	7 1,3-Dichlorobenzene	146	8.876	8.884	(0.993)	57363	2.19049	2.190
*	8 1,4-Dichlorobenzene-d4	152	8.938	8.946	(1.000)	65252	4.00000	
	9 1,4-Dichlorobenzene	146	8.970	8.977	(1.003)	56611	2.13950	2.139
$	10 1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.041)	32909	2.08191	2.082
	12 1,2-Dichlorobenzene	146	9.327	9.334	(1.043)	55113	2.11834	2.118
	11 Benzyl alcohol	108	9.226	9.218	(1.032)	20772	1.49170	1.492
	14 2,2'-oxybis(1-Chloropropane)	121	9.521	9.521	(1.065)	19035	2.61288	2.613
	13 2-Methylphenol	108	9.451	9.451	(1.057)	29351	1.35337	1.353
	17 Hexachloroethane	117	9.924	9.924	(1.110)	35273	2.20982	2.210
	16 N-Nitroso-di-n-propylamine	70	9.769	9.777	(1.093)	41595	2.19797	2.198
	15 4-Methylphenol	108	9.730	9.722	(1.089)	36199	1.47882	1.479
$	18 Nitrobenzene-d5	82	10.033	10.041	(0.877)	80915	2.15446	2.154
	19 Nitrobenzene	77	10.072	10.072	(0.881)	77516	2.11779	2.118
	20 Isophorone	82	10.522	10.530	(0.920)	125003	3.01962	3.020
	21 2-Nitrophenol	139	10.708	10.708	(0.936)	21526	1.55361	1.554
	22 2,4-Dimethylphenol	107	10.762	10.770	(0.941)	91184	2.46686	2.467
	23 Bis(2-Chloroethoxy)methane	93	10.956	10.964	(0.958)	54166	2.59015	2.590
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	11.165	11.165	(0.976)	139105	6.03817	6.038
	26 1,2,4-Trichlorobenzene	180	11.351	11.351	(0.993)	66886	2.58427	2.584
*	27 Naphthalene-d8	136	11.436	11.436	(1.000)	262493	4.00000	
	28 Naphthalene	128	11.475	11.482	(1.003)	153132	2.31859	2.319
	29 4-Chloroaniline	127	11.606	11.614	(1.015)	143001	5.10000	5.100
	30 Hexachlorobutadiene	225	11.845	11.845	(1.036)	57309	2.80453	2.805
	31 4-Chloro-3-methylphenol	107	12.581	12.581	(1.100)	176416	5.64772	5.648
	32 2-Methylnaphthalene	142	12.875	12.882	(1.126)	117059	2.17411	2.174
	33 Hexachlorocyclopentadiene	237	13.347	13.347	(0.886)	99593	4.14463	4.145

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.502	13.502	(0.897)	119097	5.58534	5.585
35	2,4,5-Trichlorophenol	196	13.579	13.579	(0.902)	110921	4.71628	4.716
$ 36	2-Fluorobiphenyl	172	13.664	13.664	(0.907)	137222	2.24593	2.246
37	2-Chloronaphthalene	162	13.873	13.873	(0.921)	114658	2.25560	2.256
38	2-Nitroaniline	65	14.128	14.128	(0.938)	202348	6.78560	6.786
39	Dimethylphthalate	163	14.562	14.570	(0.967)	161674	2.45795	2.458
40	Acenaphthylene	152	14.740	14.748	(0.979)	179641	2.25760	2.258
41	2,6-Dinitrotoluene	165	14.701	14.701	(0.976)	122101	8.08747	8.087
* 42	Acenaphthene-d10	164	15.057	15.057	(1.000)	171677	4.00000	
43	3-Nitroaniline	138	14.980	14.988	(0.995)	91261	6.26104	6.261
44	Acenaphthene	153	15.119	15.127	(1.004)	121306	2.25379	2.254
45	2,4-Dinitrophenol	184	15.196	15.204	(1.009)	30091	2.02815	2.028
46	Dibenzofuran	168	15.451	15.451	(1.026)	174780	2.24092	2.241
47	4-Nitrophenol	109	15.320	15.320	(1.017)	122704	4.08469	4.085
48	2,4-Dinitrotoluene	165	15.505	15.513	(1.030)	166907	7.96550	7.966
50	Diethylphthalate	149	16.023	16.031	(1.064)	258654	2.70609	2.706
49	Fluorene	166	16.163	16.163	(1.073)	219989	2.24120	2.241
51	4-Chlorophenyl-phenylether	204	16.155	16.163	(1.073)	118959	2.15921	2.159
52	4-Nitroaniline	138	16.247	16.255	(1.079)	119300	6.89254	6.893
53	4,6-Dinitro-2-methylphenol	198	16.348	16.355	(0.904)	170640	8.16490	8.165
54	N-Nitrosodiphenylamine	169	16.402	16.409	(0.907)	121517	2.06110	2.061
$ 55	2,4,6-Tribromophenol	330	16.695	16.702	(1.109)	42022	3.01746	3.017
56	4-Bromophenyl-phenylether	248	17.157	17.157	(0.948)	63287	2.30290	2.303
57	Hexachlorobenzene	284	17.474	17.474	(0.966)	69712	2.22286	2.223
58	Pentachlorophenol	266	17.838	17.838	(0.986)	40905	2.39256	2.393(M)
* 59	Phenanthrene-d10	188	18.093	18.093	(1.000)	348418	4.00000	
60	Phenanthrene	178	18.139	18.147	(1.003)	212220	2.25744	2.257
61	Anthracene	178	18.232	18.232	(1.008)	168020	1.87044	1.870
62	Carbazole	167	18.565	18.565	(1.026)	181916	2.20544	2.205
63	Di-n-butylphthalate	149	19.370	19.377	(1.071)	308044	2.40874	2.409
64	Fluoranthene	202	20.530	20.538	(0.887)	255780	2.53655	2.537
65	Pyrene	202	20.956	20.963	(0.905)	259489	2.59024	2.590
$ 66	Terphenyl-d14	244	21.250	21.250	(0.918)	208241	2.48715	2.487
67	Butylbenzylphthalate	149	22.171	22.179	(0.958)	137200	2.49671	2.497
68	Benzo(a)anthracene	228	23.123	23.123	(0.999)	217478	2.28042	2.280
* 69	Chrysene-d12	240	23.147	23.154	(1.000)	261473	4.00000	
70	3,3'-Dichlorobenzidine	252	23.077	23.085	(0.997)	198202	4.65540	4.655
71	Chrysene	228	23.193	23.201	(1.002)	217611	2.37154	2.372
72	bis(2-Ethylhexyl)phthalate	149	23.201	23.201	(0.959)	192912	2.61681	2.617
* 134	Di-n-octylphthalate-d4	153	24.184	24.184	(1.000)	444743	4.00000	
73	Di-n-octylphthalate	149	24.192	24.192	(1.000)	273534	2.43589	2.436
74	Benzo(b)fluoranthene	252	24.974	24.981	(0.971)	169706	2.34748	2.347
75	Benzo(k)fluoranthene	252	25.020	25.020	(0.973)	173371	2.34242	2.342
76	Benzo(a)pyrene	252	25.609	25.616	(0.995)	138558	2.24315	2.243
* 77	Perylene-d12	264	25.725	25.725	(1.000)	205729	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.289	28.305	(1.100)	155187	1.98861	1.989
79	Dibenzo(a,h)anthracene	278	28.305	28.305	(1.100)	139846	2.08090	2.081
80	Benzo(g,h,i)perylene	276	29.050	29.058	(1.129)	117514	2.03342	2.033
90	N-Nitrosodimethylamine	74	4.535	4.535	(0.507)	30801	2.91138	2.911
91	Aniline	93	8.397	8.397	(0.939)	110280	4.60100	4.601
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.581	4.550	(0.513)	11222	0.36789	0.3679
105	1-methylnaphthalene	142	13.099	13.099	(1.145)	113283	2.16656	2.167
111	Azobenzene (1,2-DP-Hydrazine)	77	16.479	16.479	(1.094)	291368	2.11753	2.118

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.020	24.981	(0.973)	329394	4.68030	4.680
120 2,3,4,6-Tetrachlorophenol	232	15.791	15.791	(1.049)	33222	1.49985	1.500

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032307.D
Lab Smp Id: BLA0064-BS1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	65252	0.47
27 Naphthalene-d8	262858	131429	525716	262493	-0.14
42 Acenaphthene-d10	167543	83772	335086	171677	2.47
59 Phenanthrene-d10	341039	170520	682078	348418	2.16
69 Chrysene-d12	222731	111366	445462	261473	17.39
134 Di-n-octylphthala	333425	166713	666850	444743	33.39
77 Perylene-d12	152721	76361	305442	205729	34.71

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.09
27 Naphthalene-d8	11.44	10.94	11.94	11.44	-0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.09	-0.00
69 Chrysene-d12	23.15	22.65	23.65	23.15	-0.03
134 Di-n-octylphthala	24.18	23.68	24.68	24.18	-0.00
77 Perylene-d12	25.73	25.23	26.23	25.73	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032307.D

Lab ID: BLA0064-BS1
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 16:44

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1402032303.D

On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

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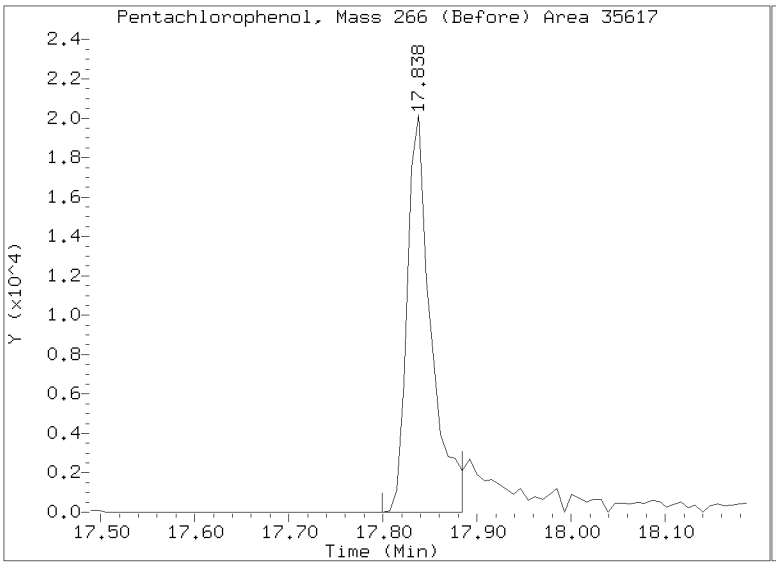
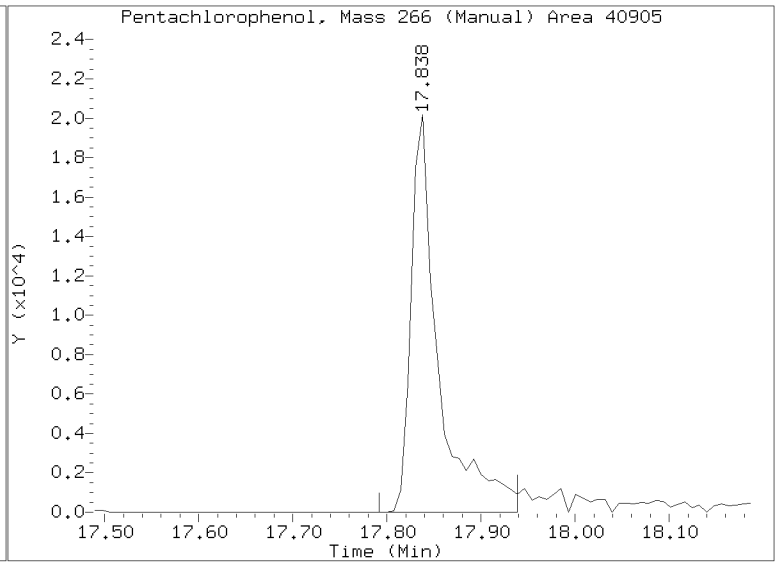
Injection Date: 03-FEB-2023 16:44
Lab ID:BLA0064-BS1 Client ID:
Report Date: 02/04/2023 10:27





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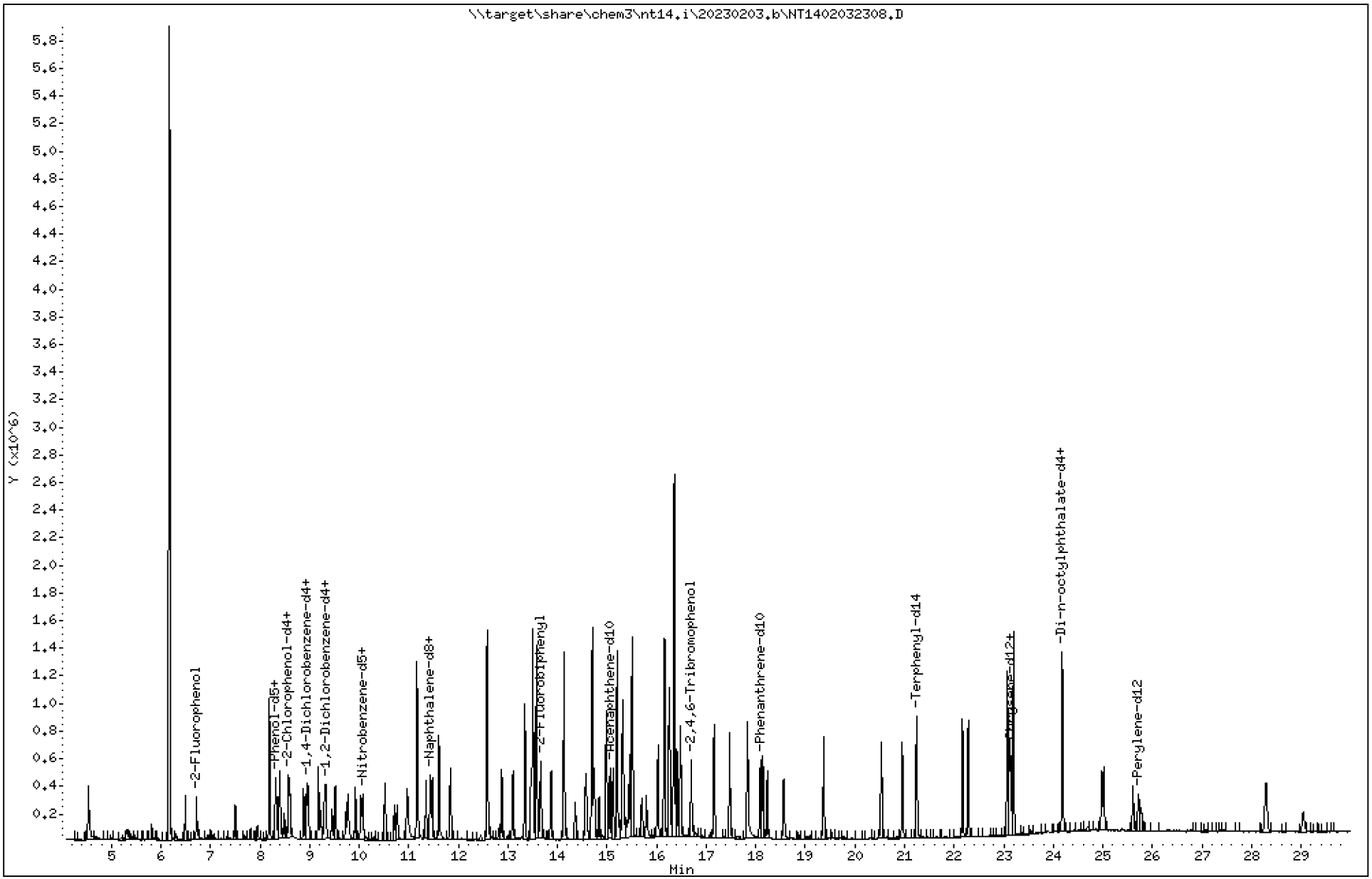
Date : 03-FEB-2023 17:20
Client ID:
Sample Info: BLA0064-BSD1

Instrument: nt14.i
Operator: DSD
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

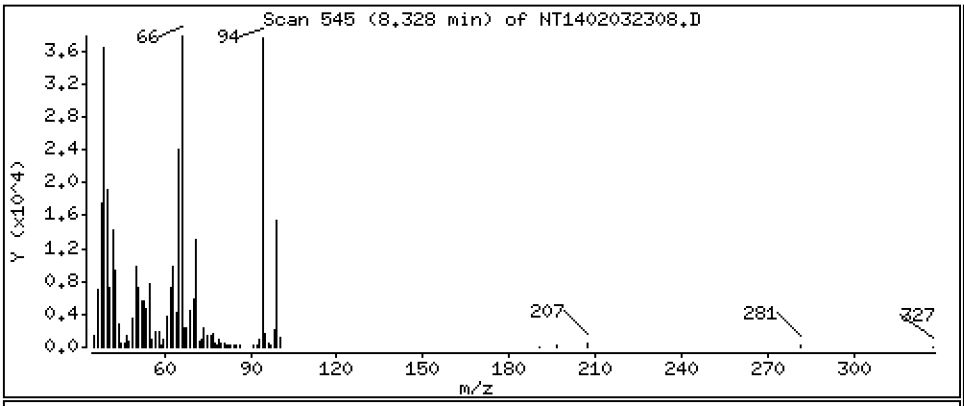
Operator: DSD

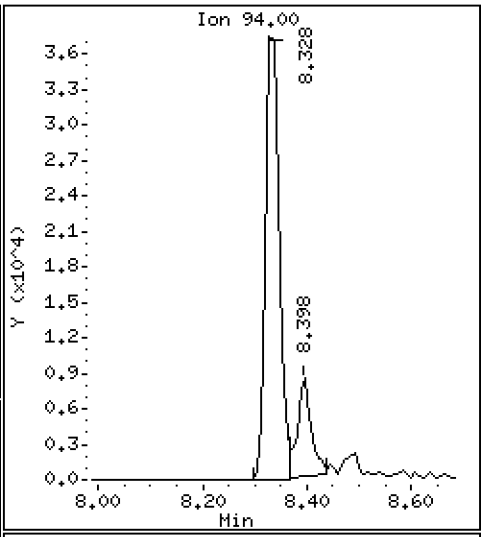
Column phase: ZB-5msi

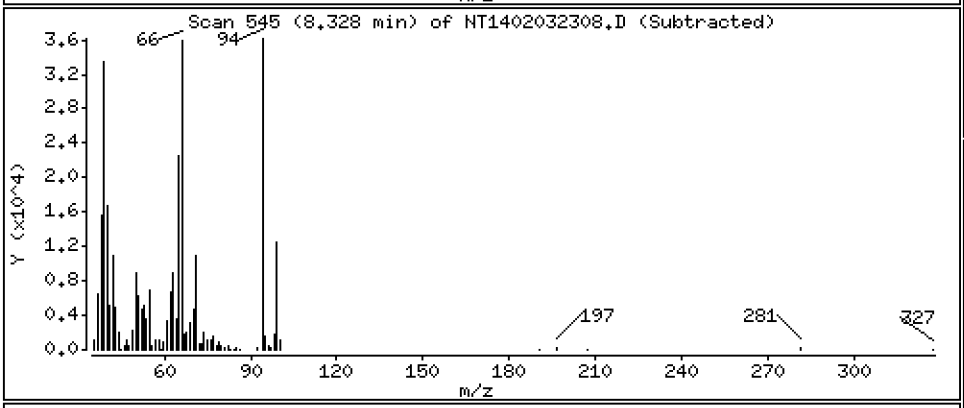
Column diameter: 0.25

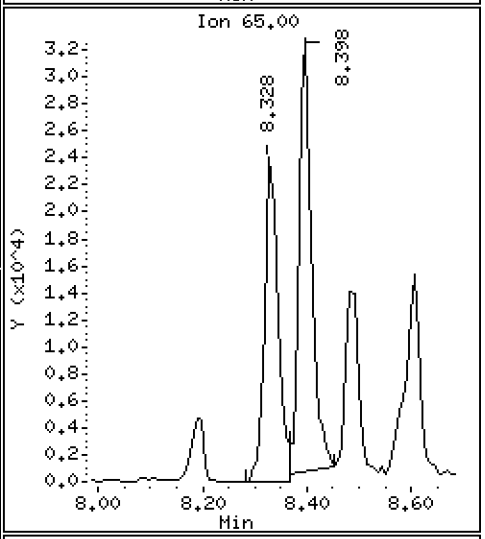
3 Phenol

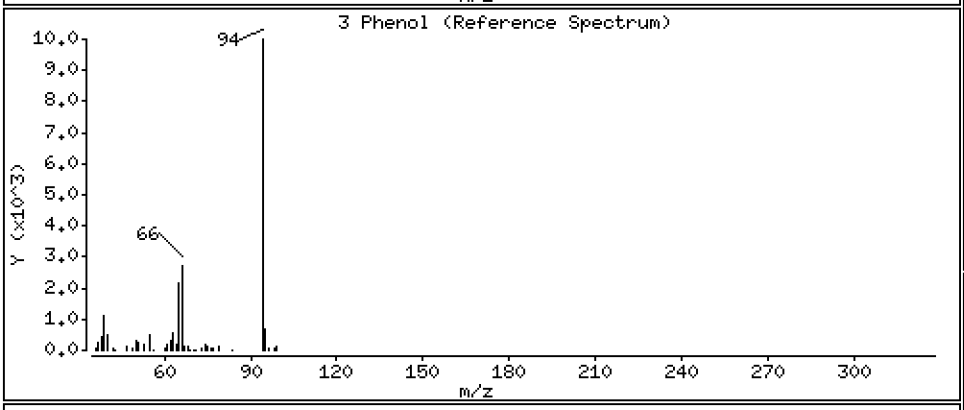
Concentration: 2.507 ug/mL

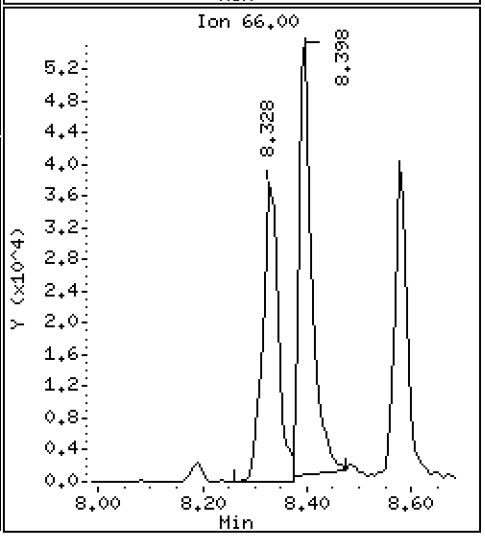


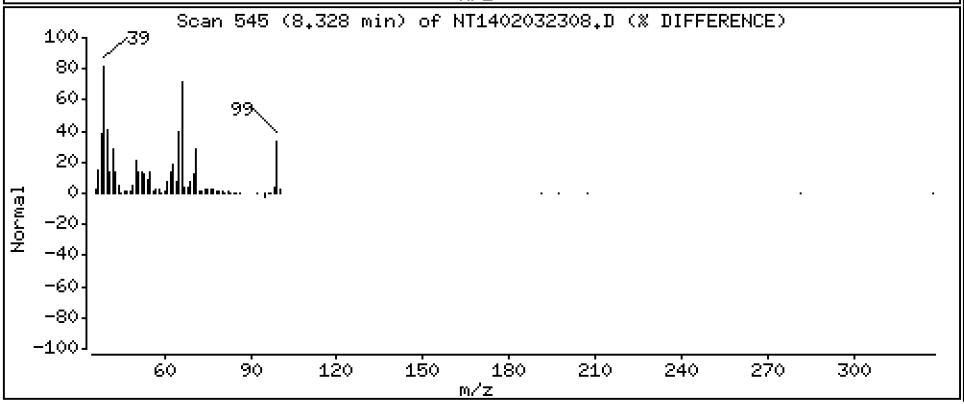












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

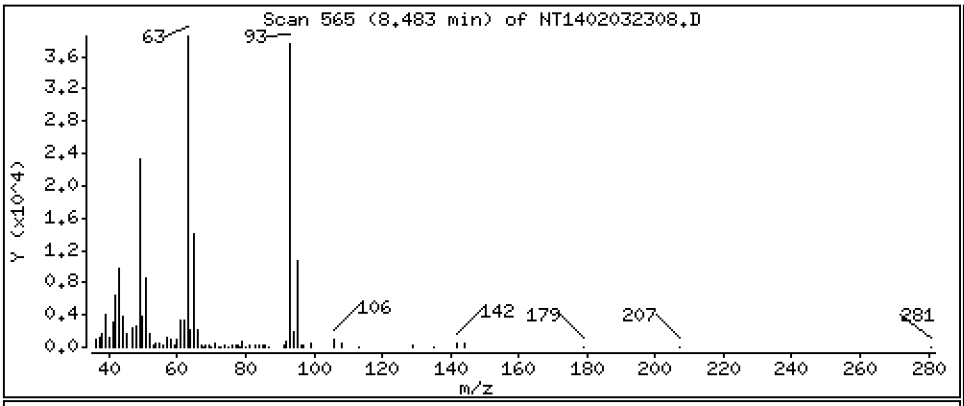
Operator: DSD

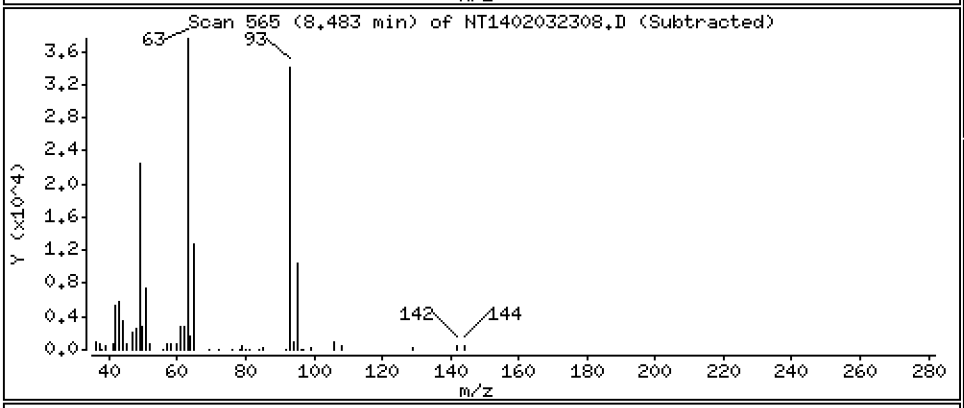
Column phase: ZB-5msi

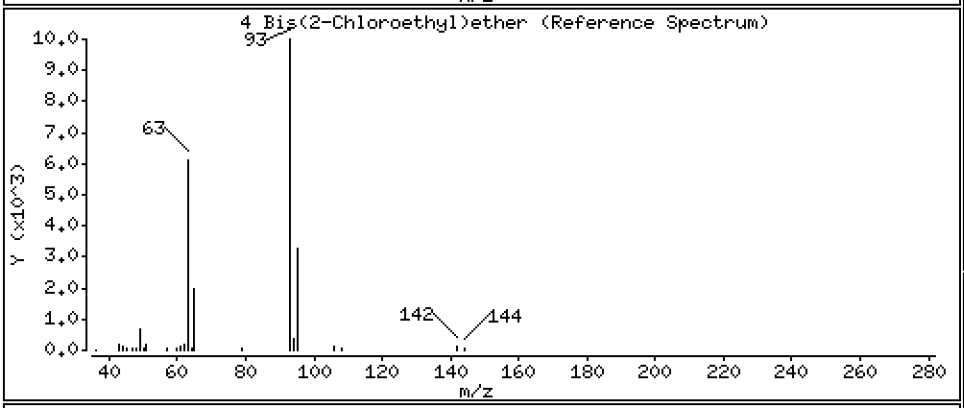
Column diameter: 0.25

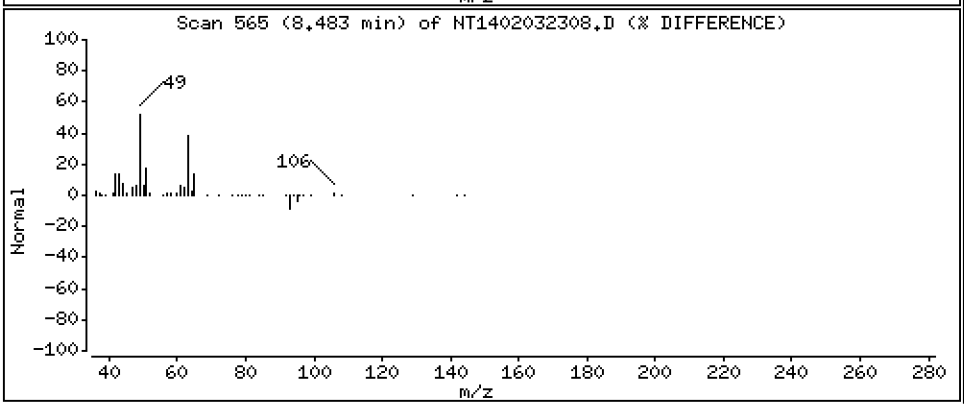
4 Bis(2-Chloroethyl)ether

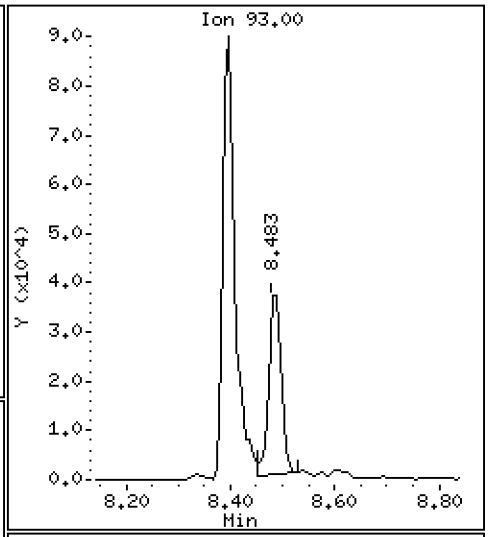
Concentration: 3.914 ug/mL

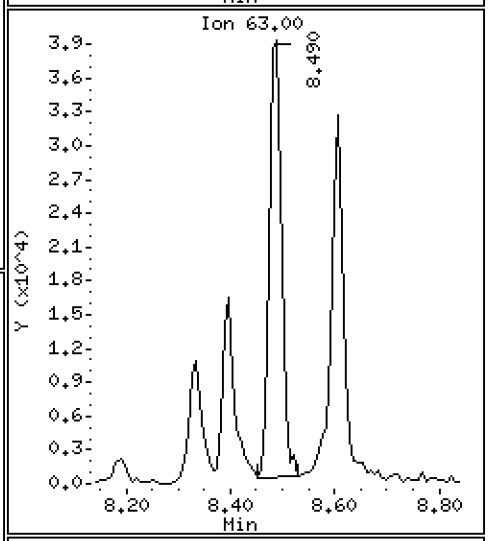


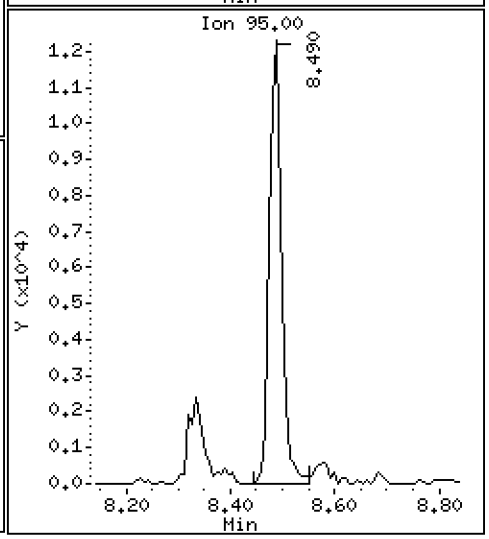












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

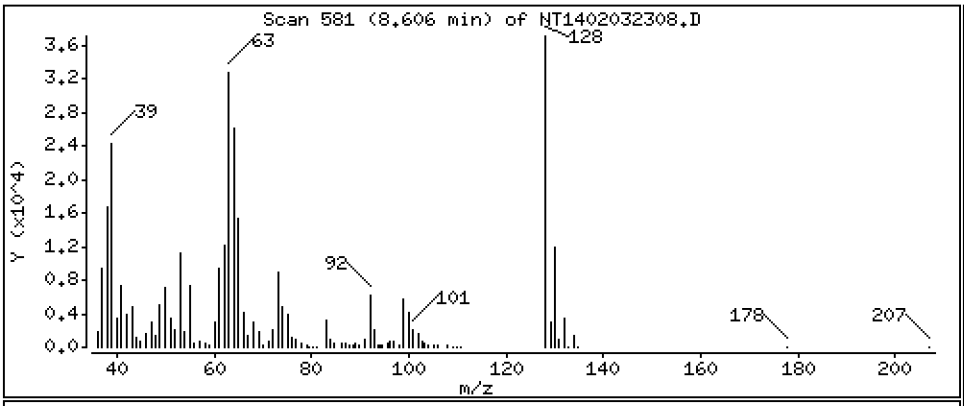
Operator: DSD

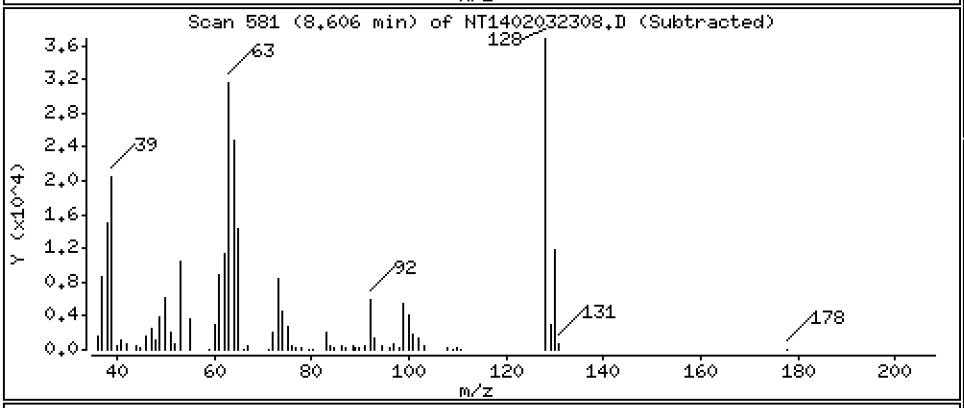
Column phase: ZB-5msi

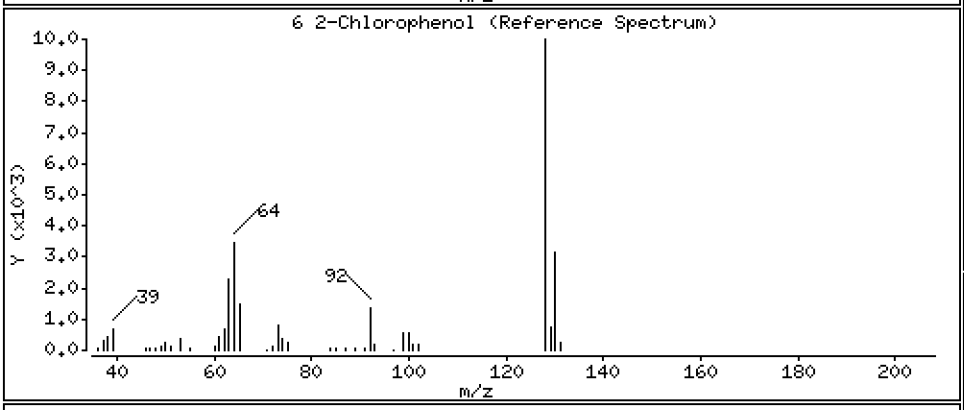
Column diameter: 0.25

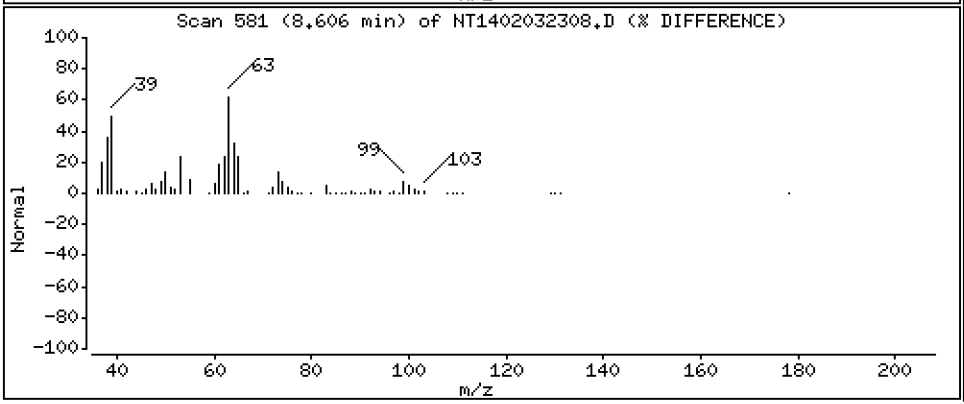
6 2-Chlorophenol

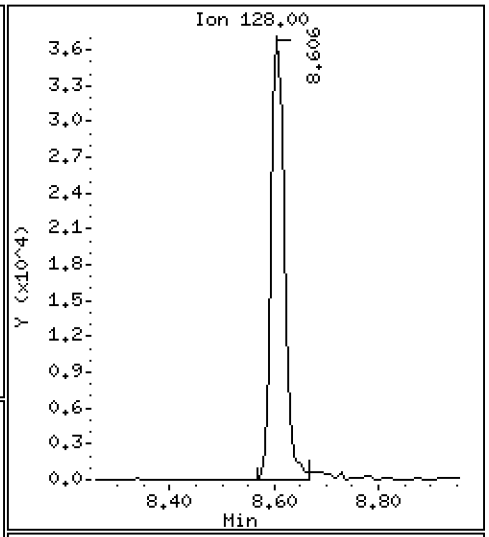
Concentration: 2.900 ug/mL

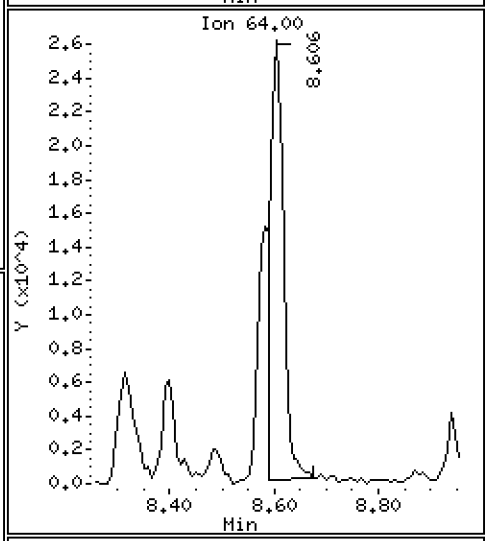


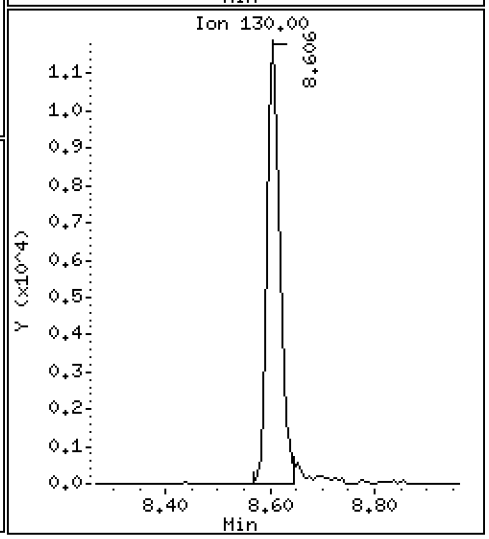












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

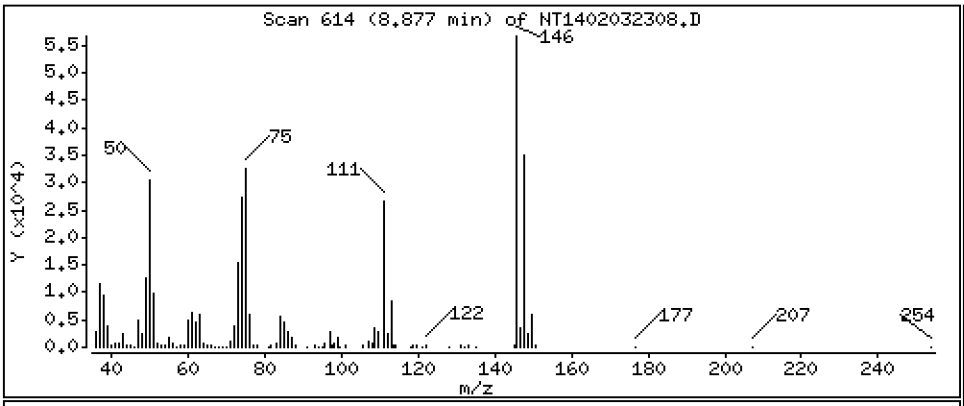
Operator: DSD

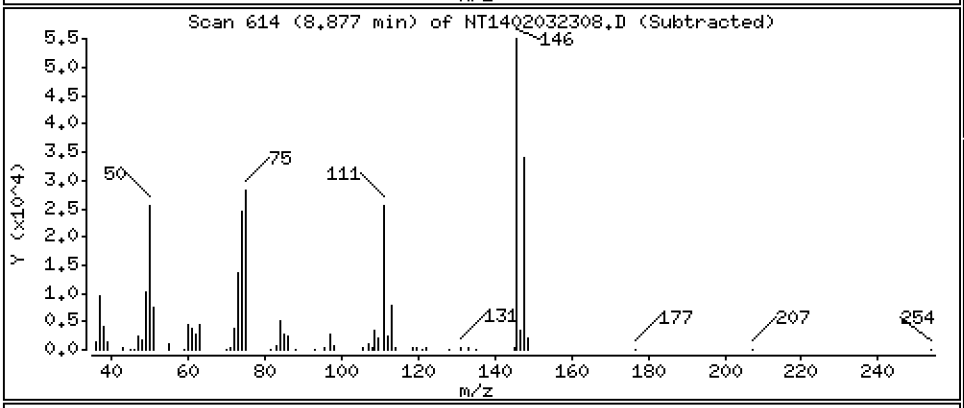
Column phase: ZB-5msi

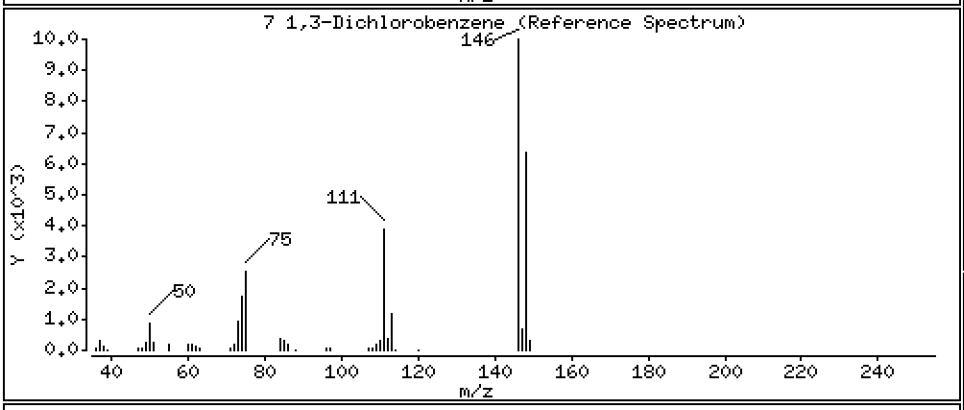
Column diameter: 0.25

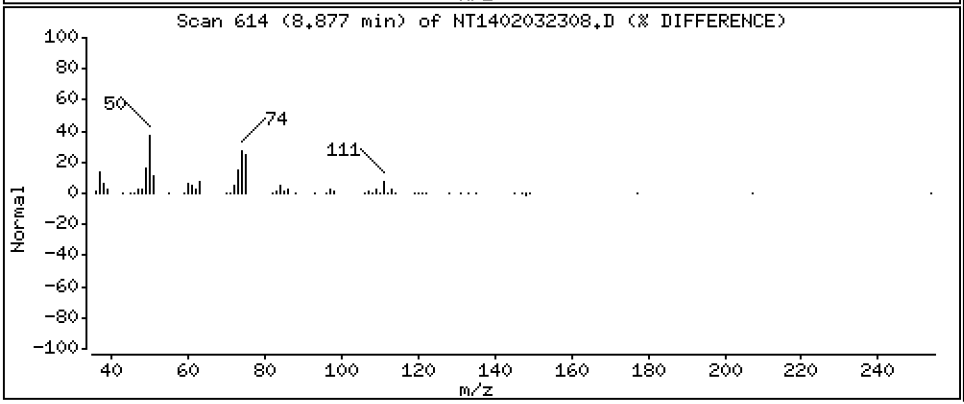
7 1,3-Dichlorobenzene

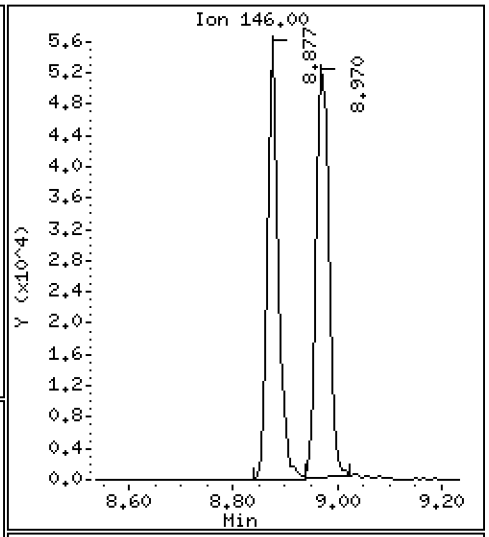
Concentration: 3.440 ug/mL

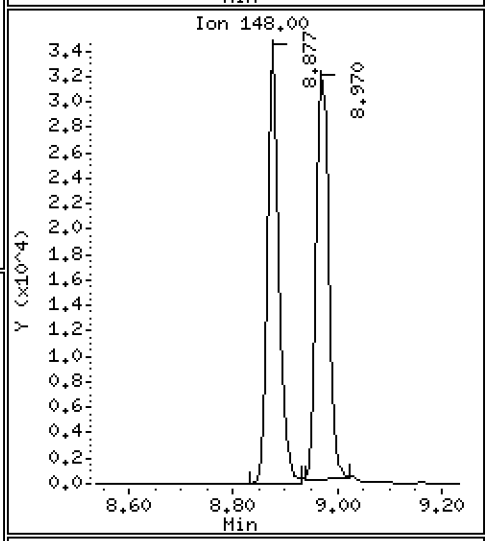


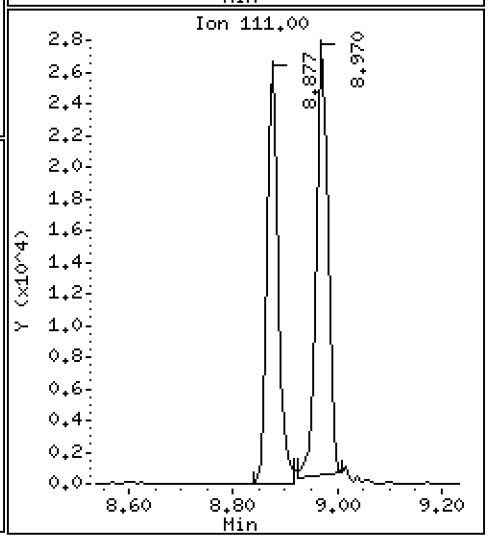












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

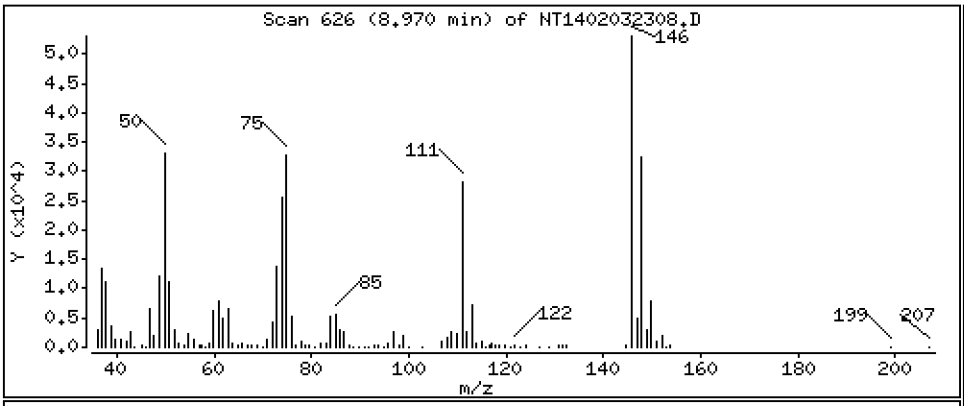
Operator: DSD

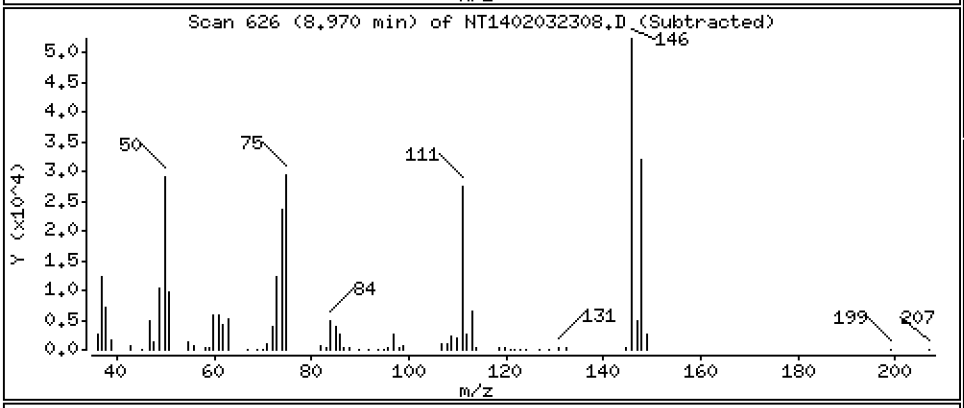
Column phase: ZB-5msi

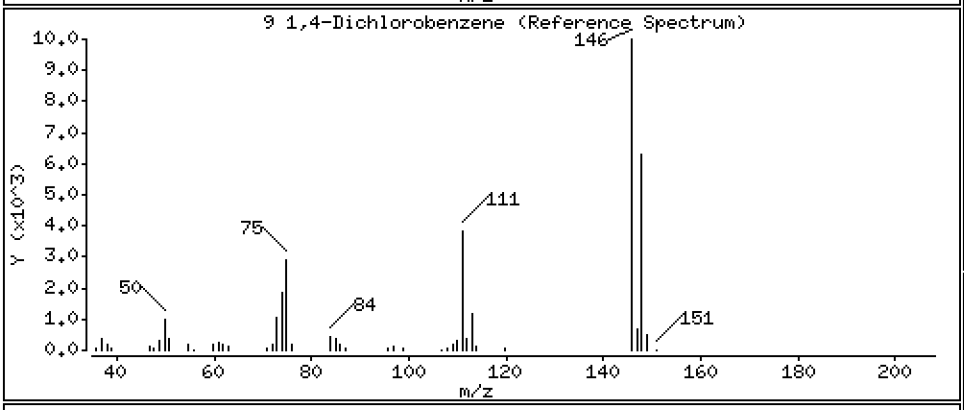
Column diameter: 0.25

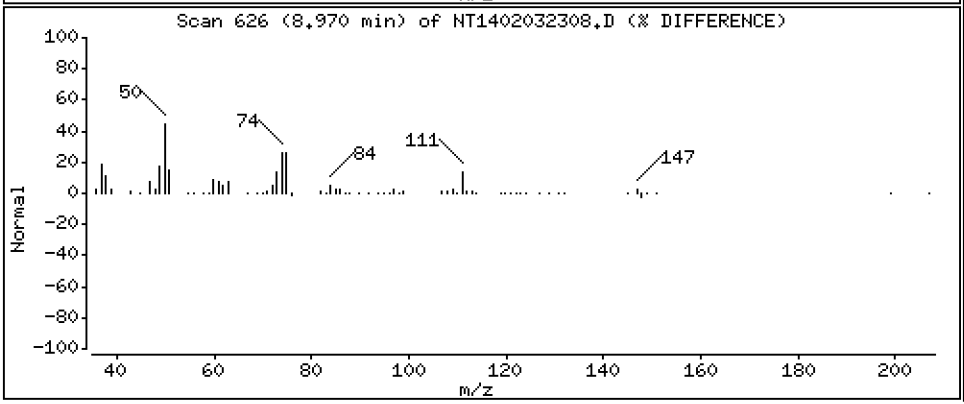
9 1,4-Dichlorobenzene

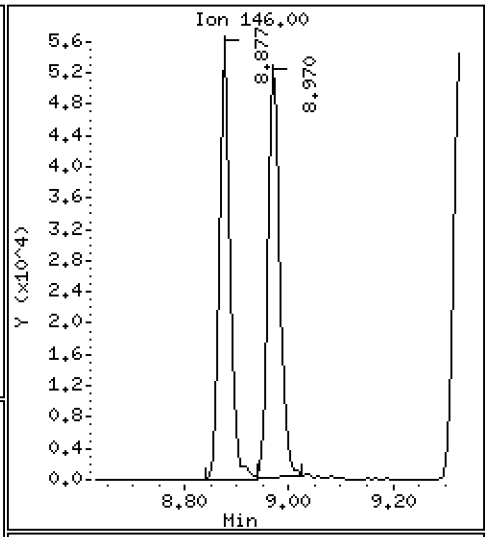
Concentration: 3.439 ug/mL

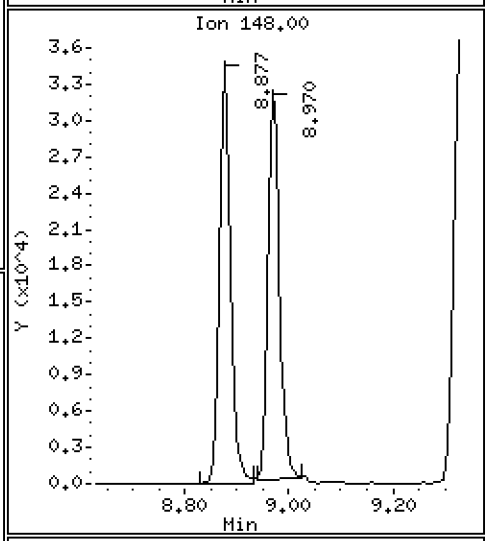


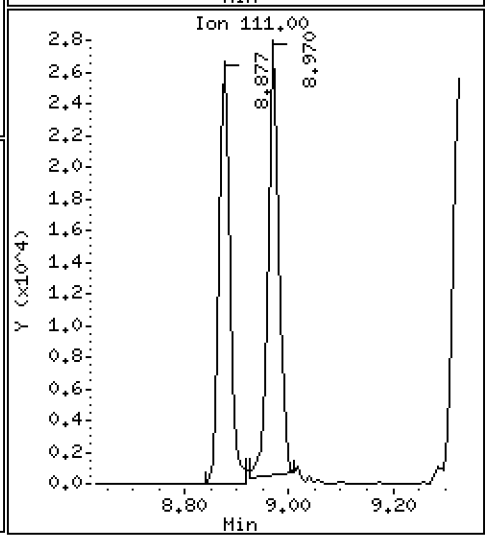












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

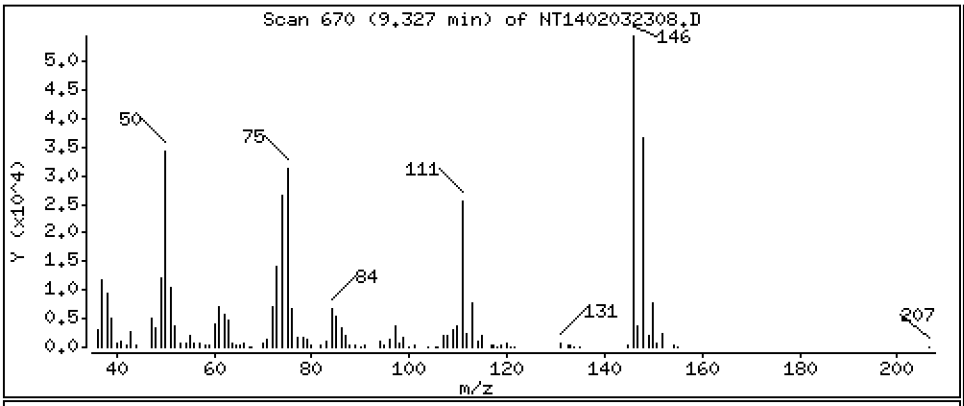
Operator: DSD

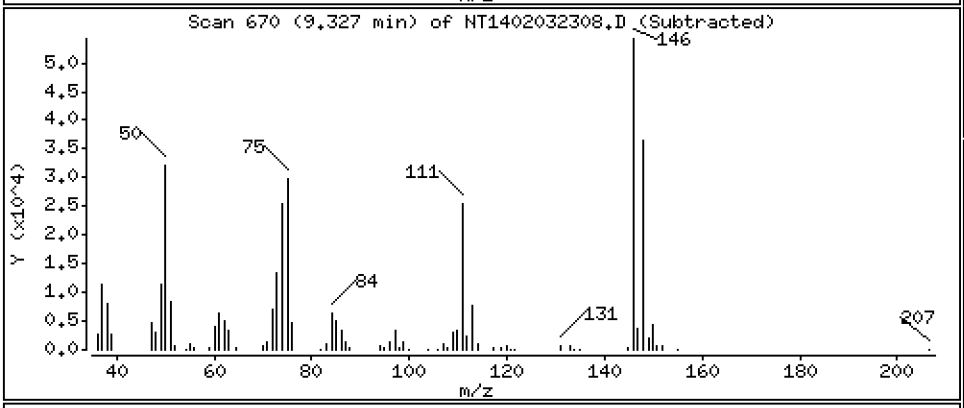
Column phase: ZB-5msi

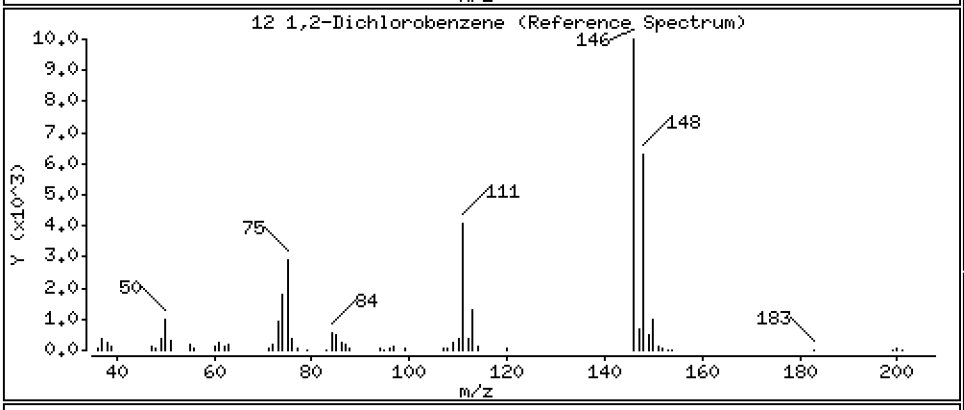
Column diameter: 0.25

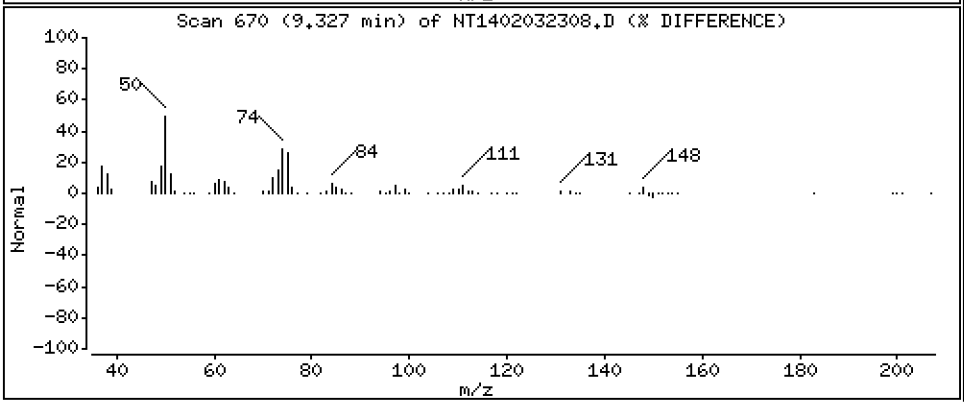
12 1,2-Dichlorobenzene

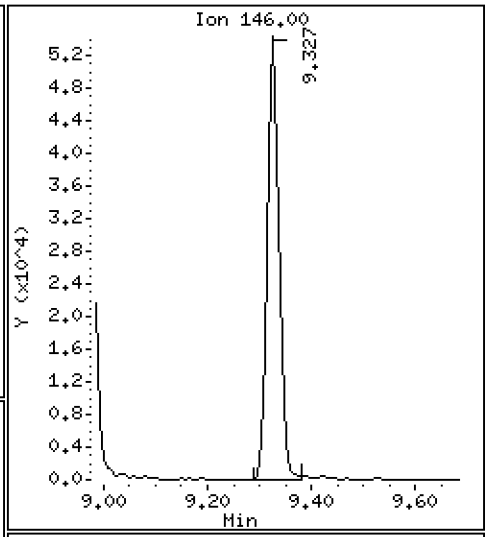
Concentration: 3.447 ug/mL

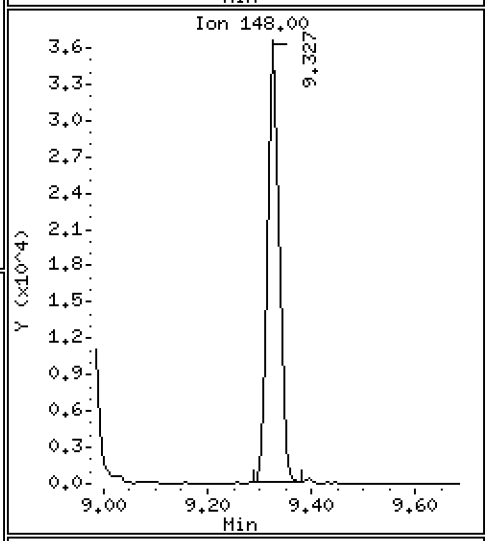


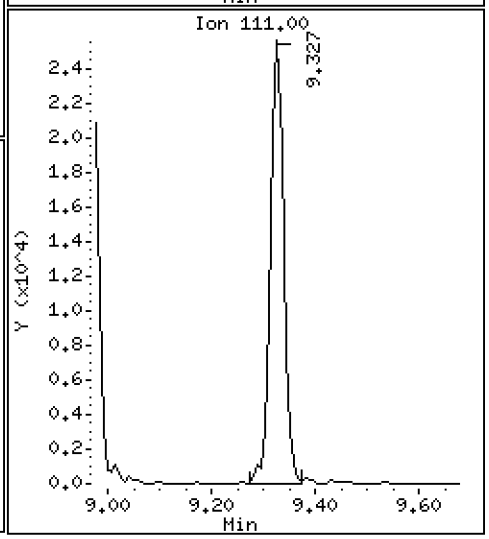












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

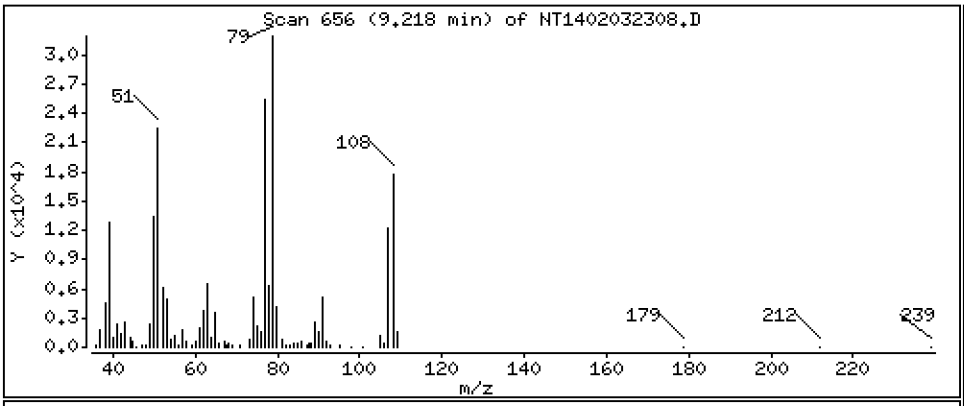
Operator: DSD

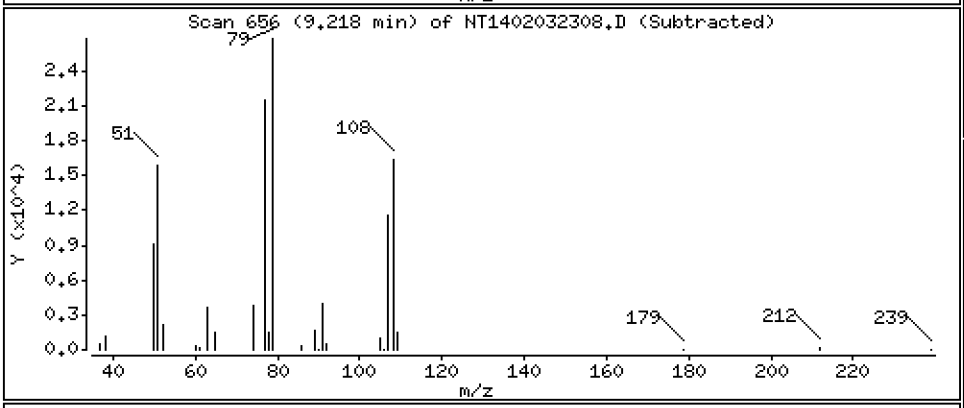
Column phase: ZB-5msi

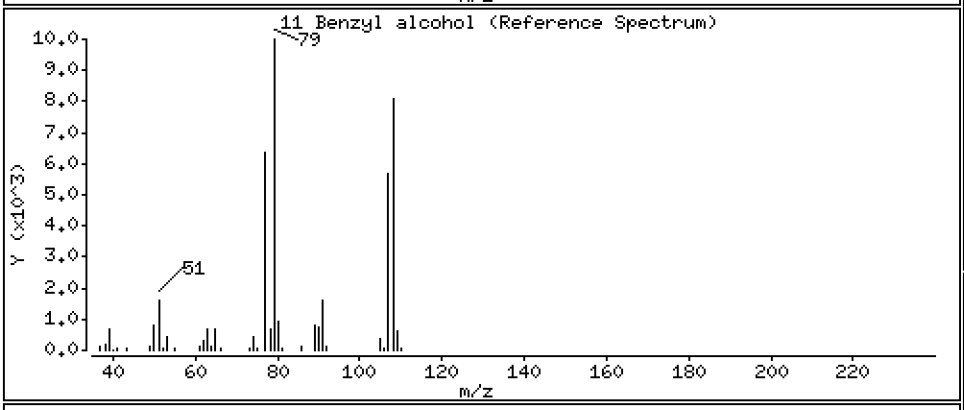
Column diameter: 0.25

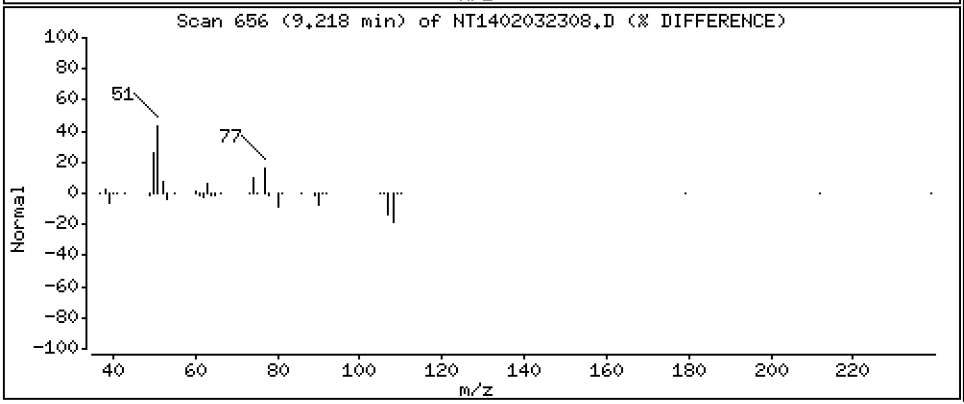
11 Benzyl alcohol

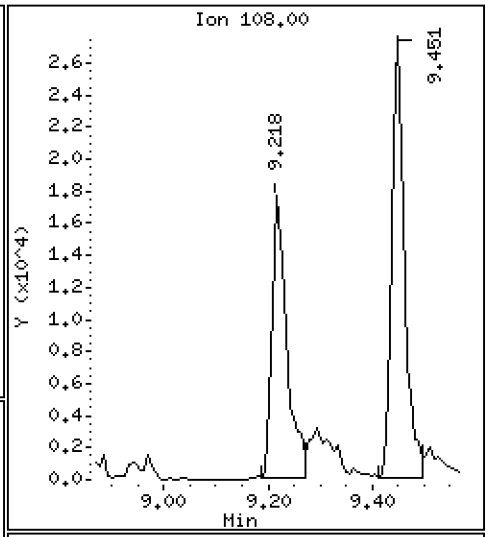
Concentration: 2.578 ug/mL

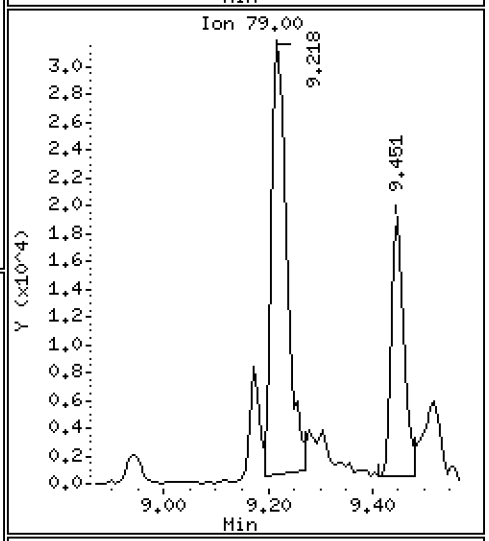


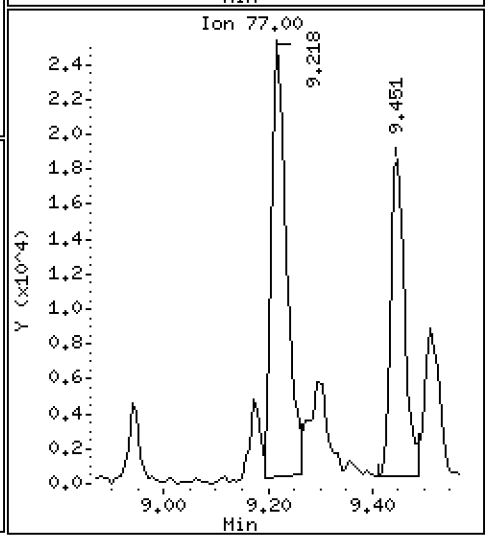












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

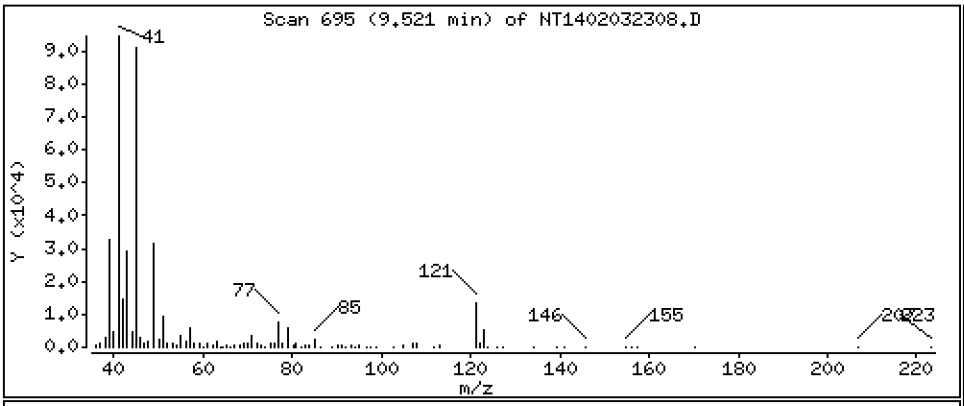
Operator: DSD

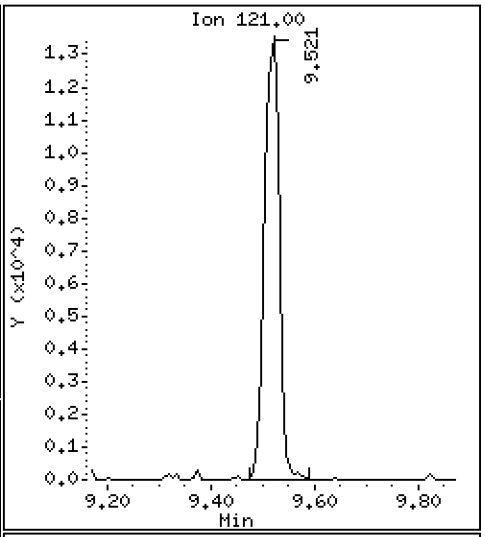
Column phase: ZB-5msi

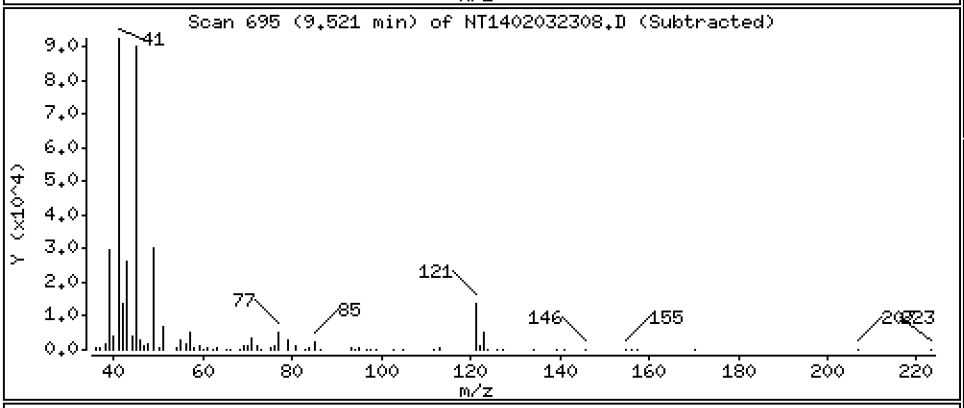
Column diameter: 0.25

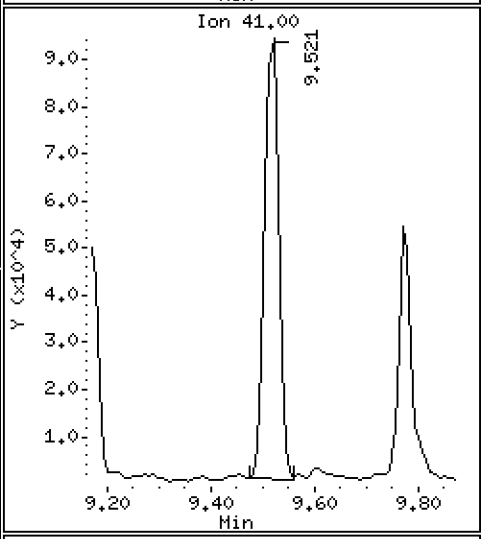
14 2,2'-oxybis(1-Chloropropane)

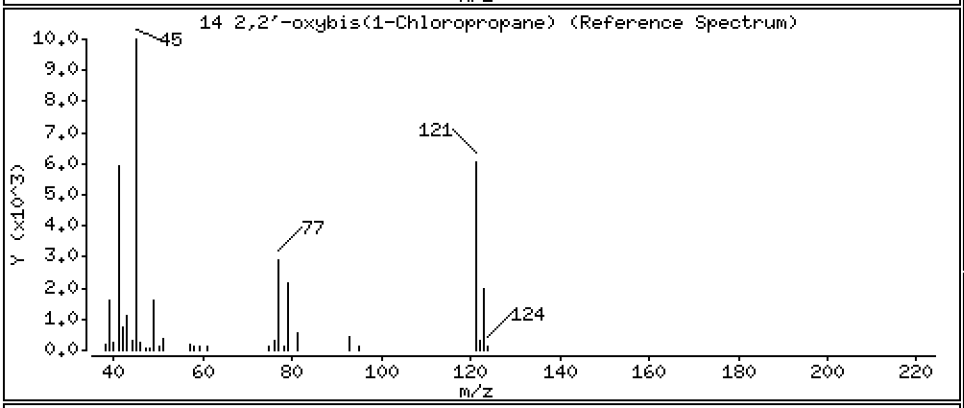
Concentration: 3.828 ug/mL

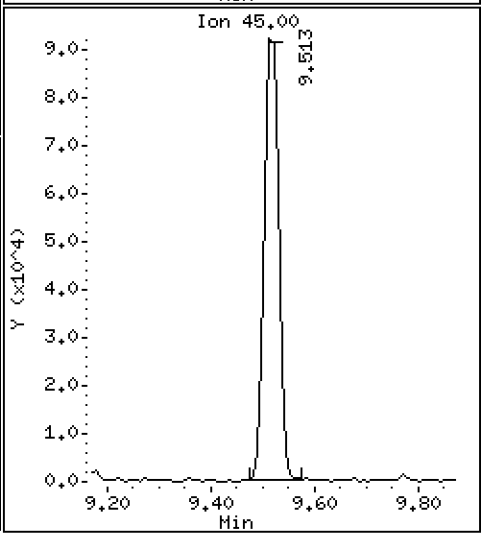


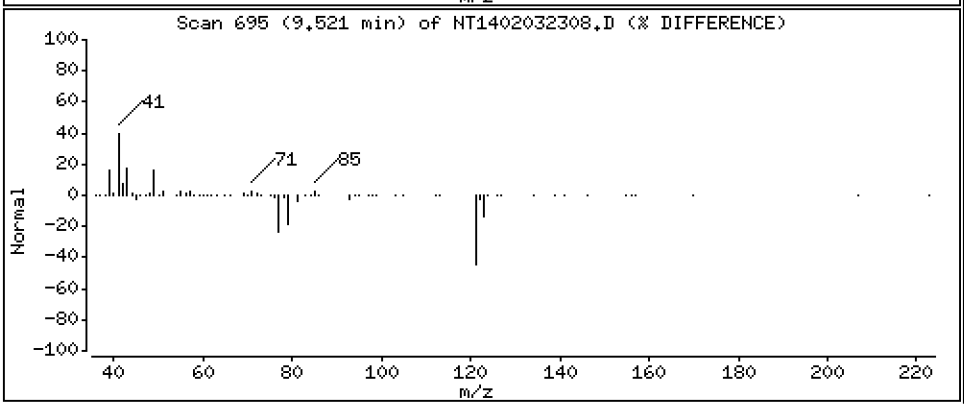












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

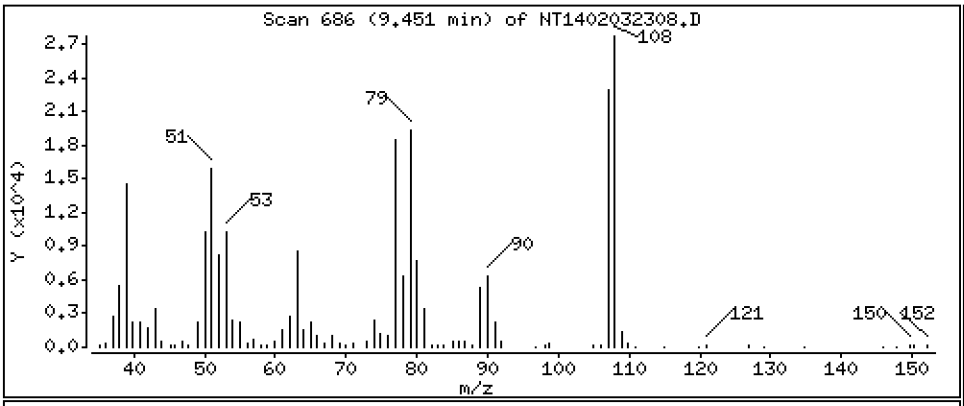
Operator: DSD

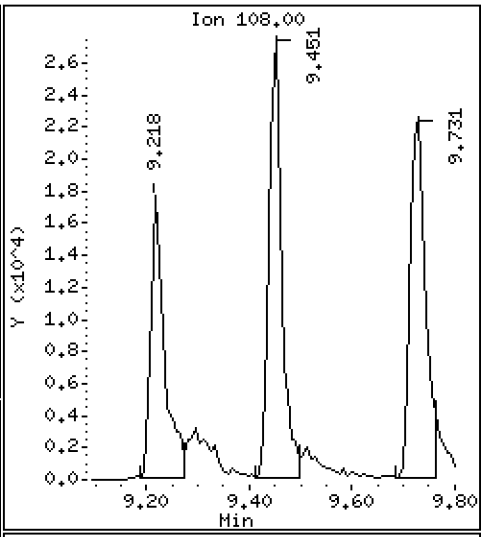
Column phase: ZB-5msi

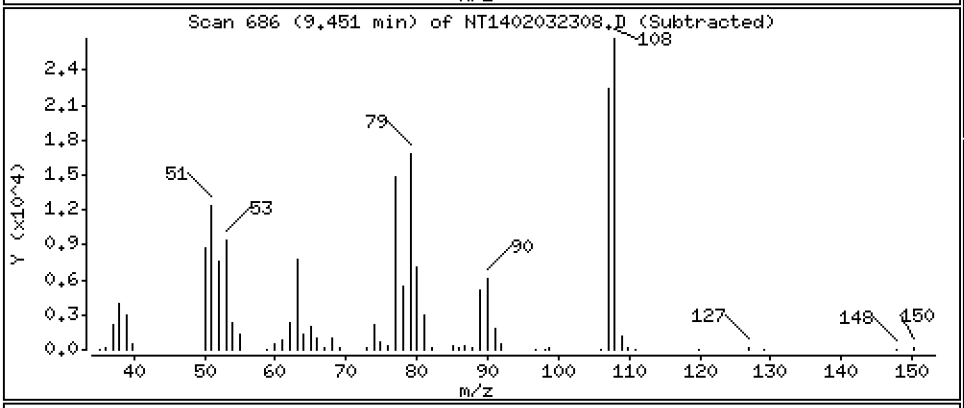
Column diameter: 0.25

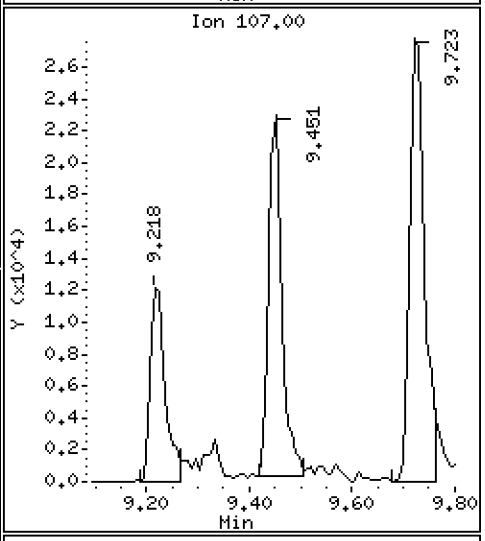
13 2-Methylphenol

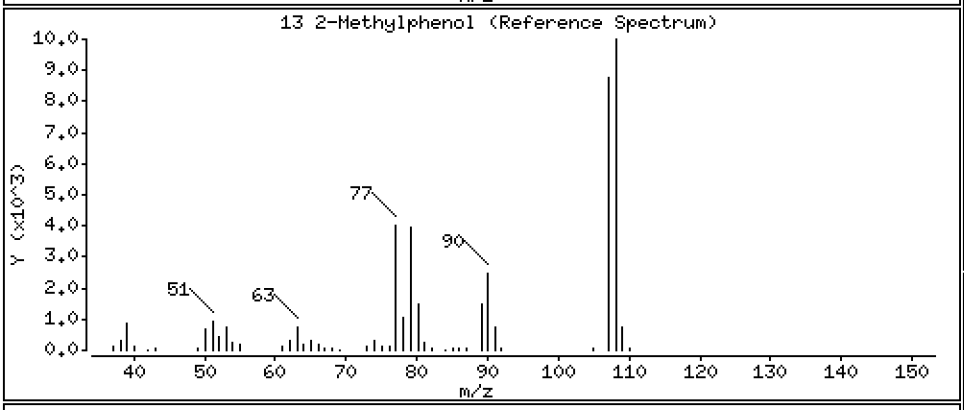
Concentration: 2.202 ug/mL

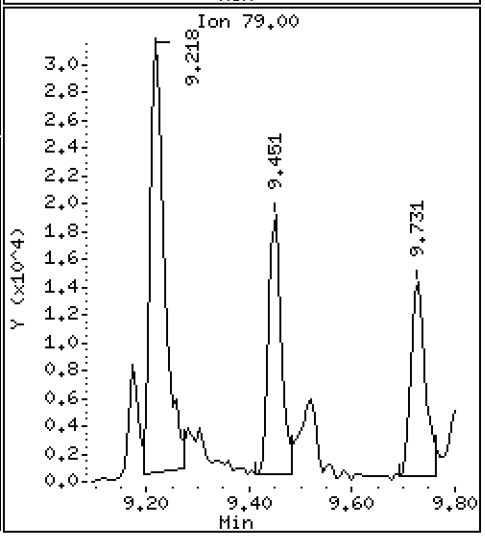


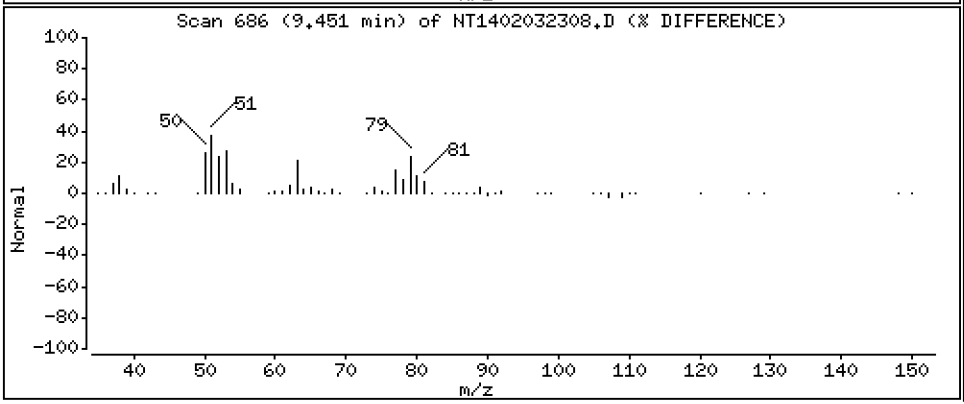












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

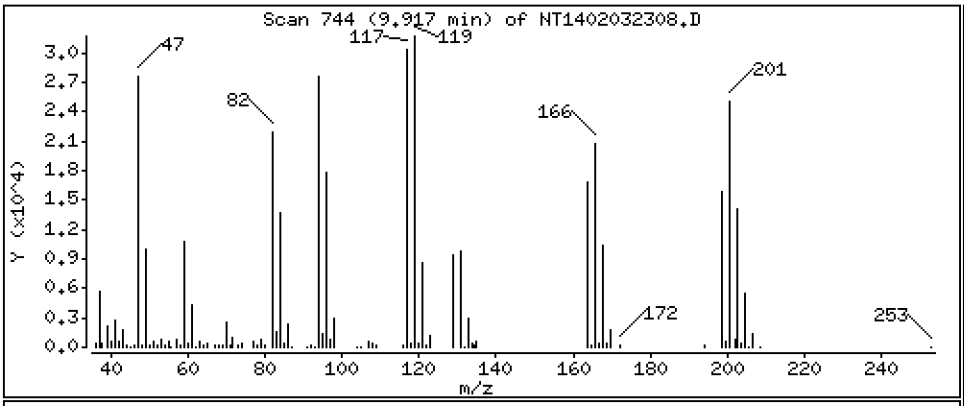
Operator: DSD

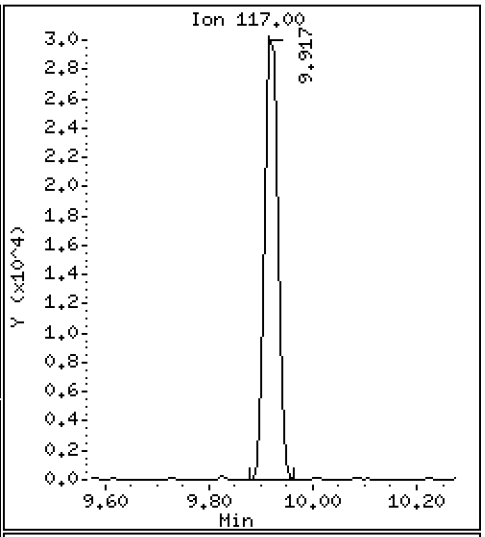
Column phase: ZB-5msi

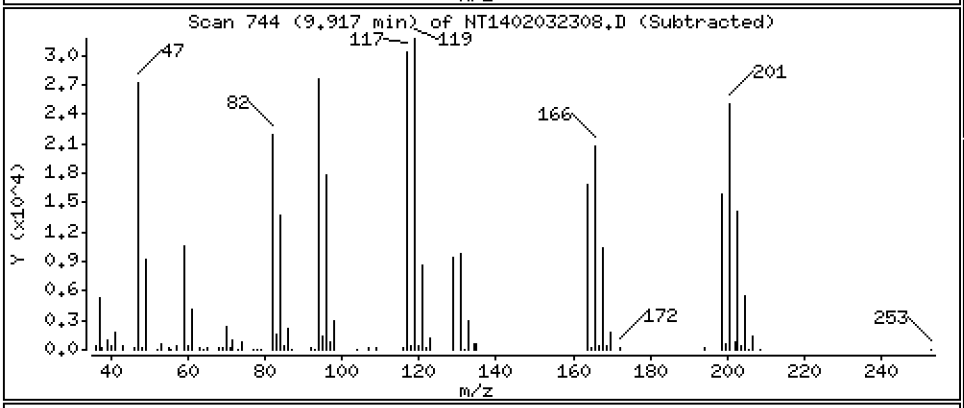
Column diameter: 0.25

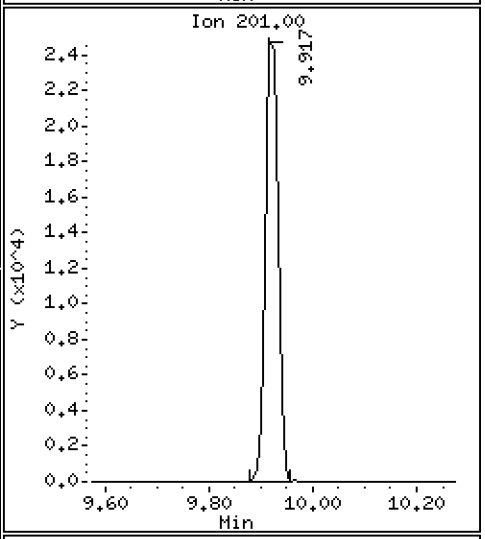
17 Hexachloroethane

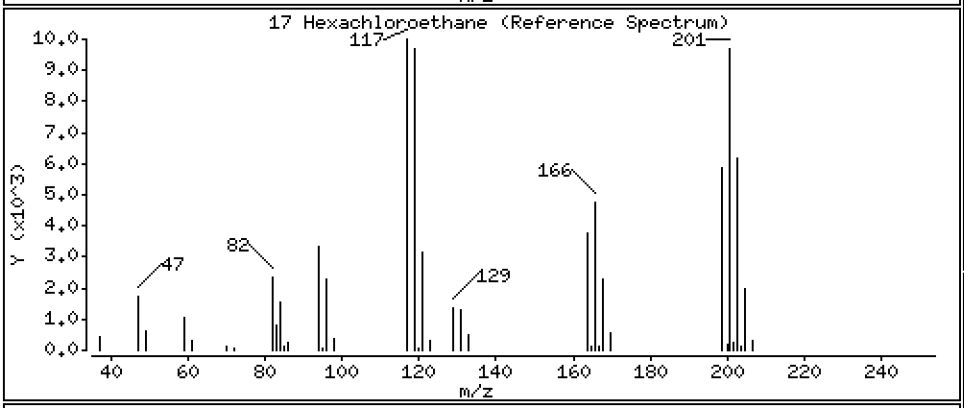
Concentration: 3.443 ug/mL

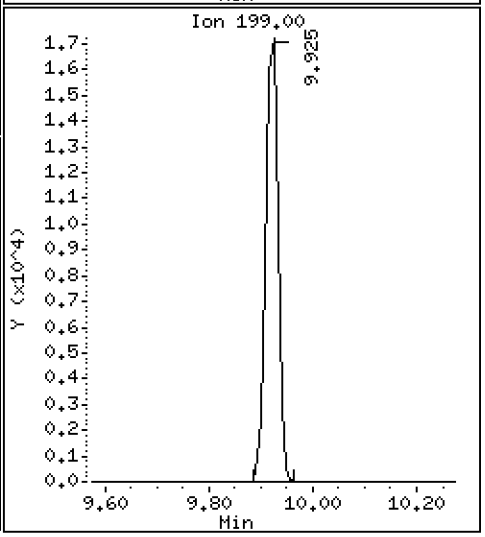


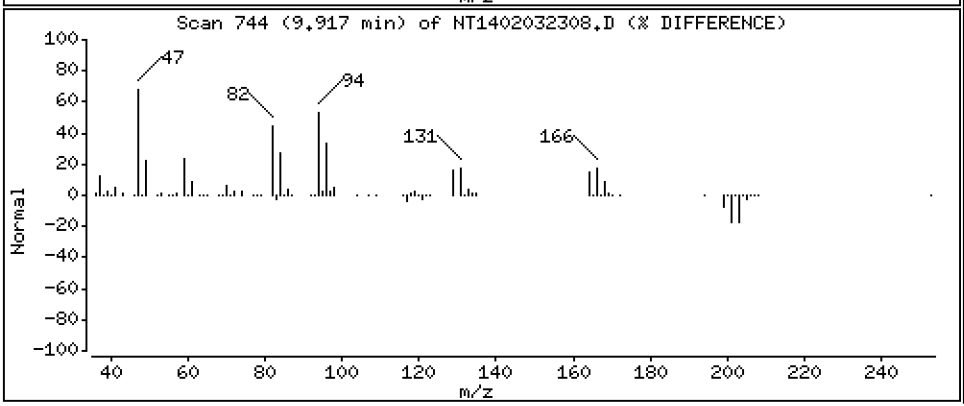












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

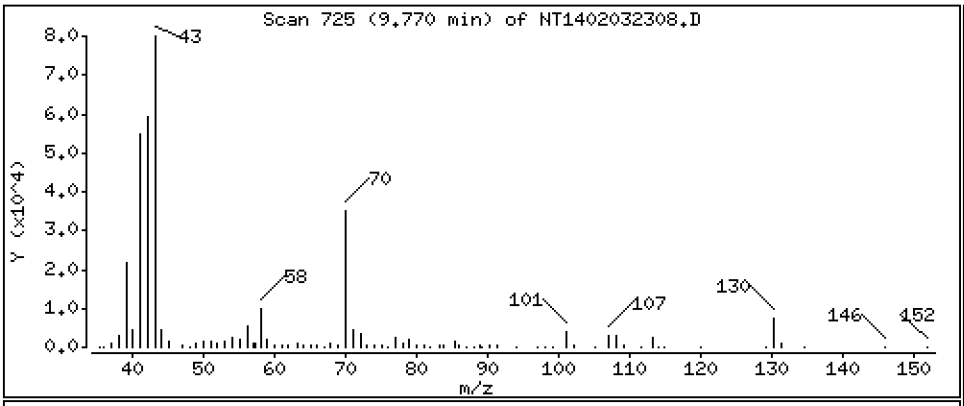
Operator: DSD

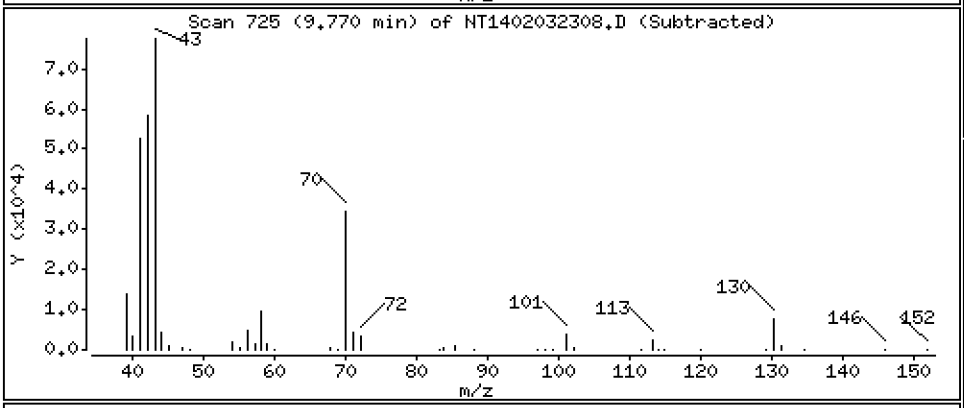
Column phase: ZB-5msi

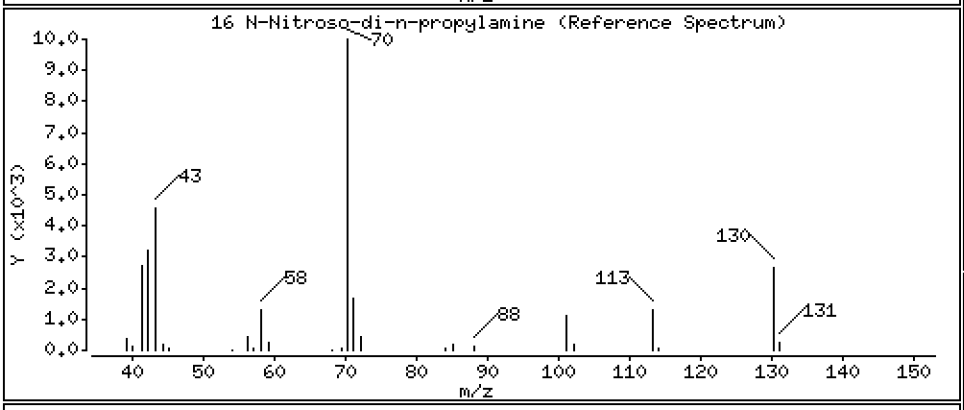
Column diameter: 0.25

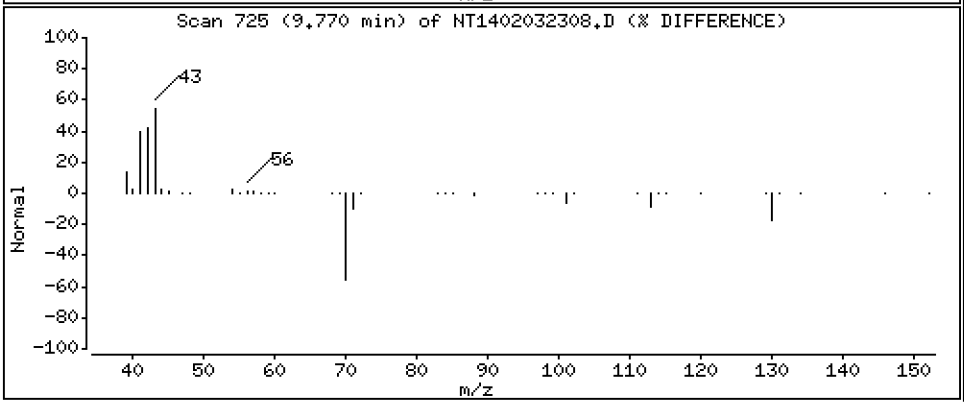
16 N-Nitroso-di-n-propylamine

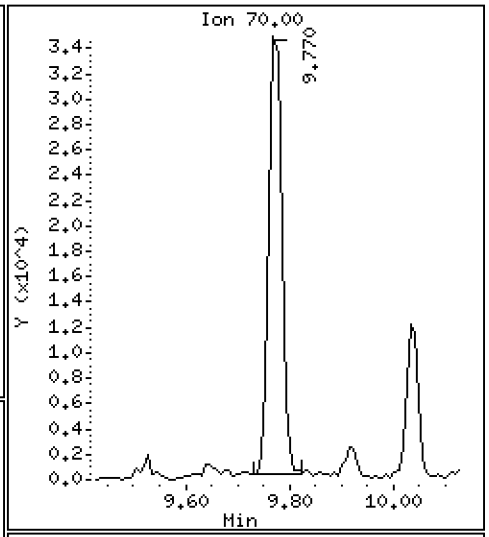
Concentration: 3.294 ug/mL

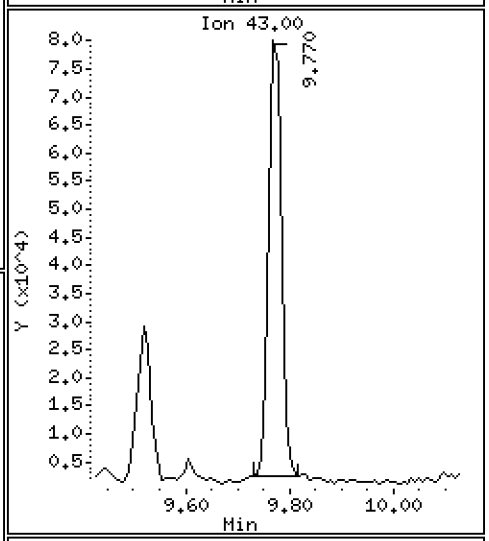


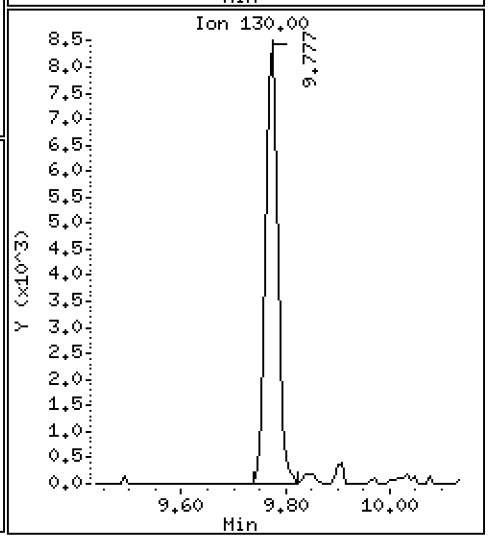












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

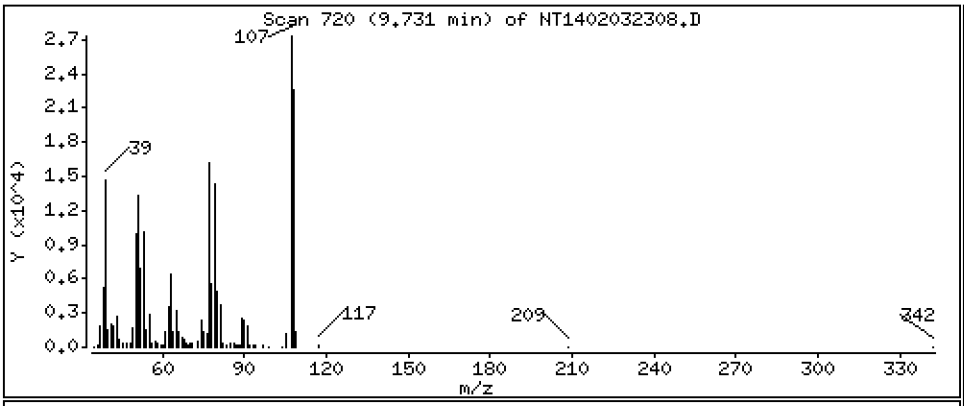
Operator: DSD

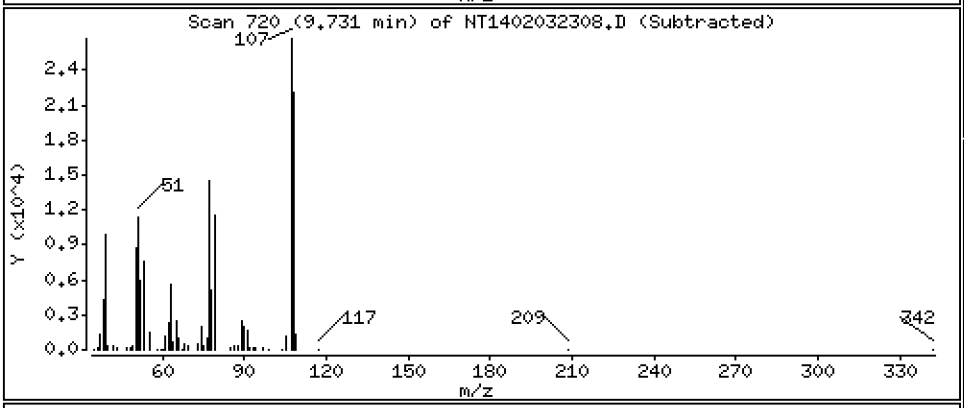
Column phase: ZB-5msi

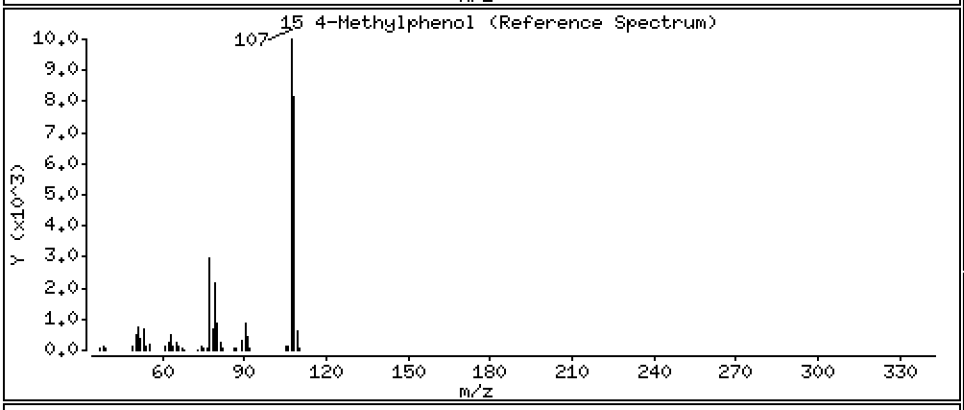
Column diameter: 0.25

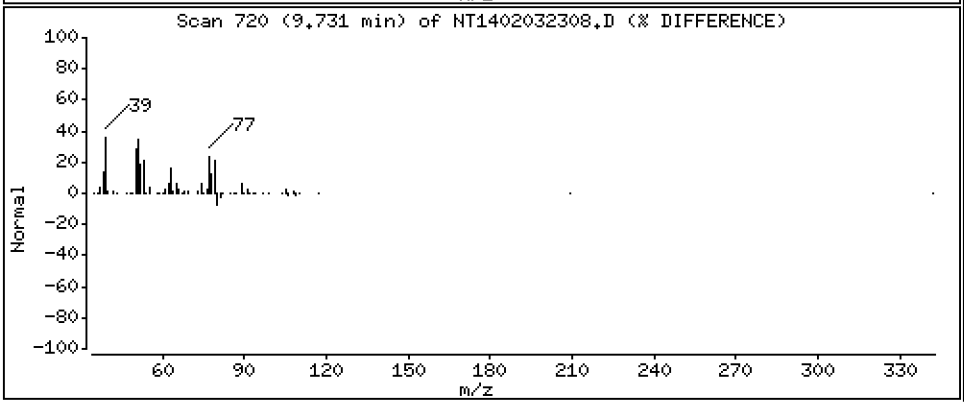
15 4-Methylphenol

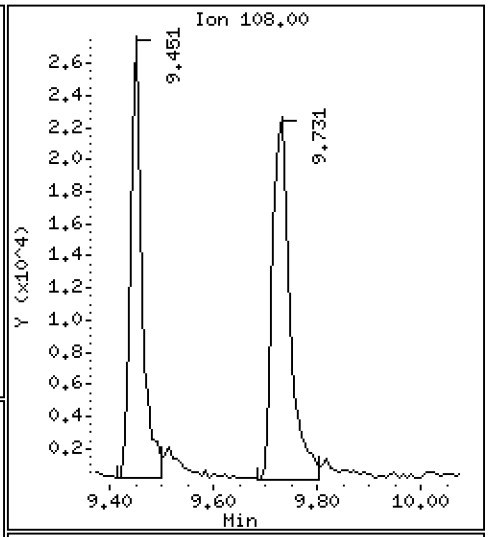
Concentration: 2.282 ug/mL

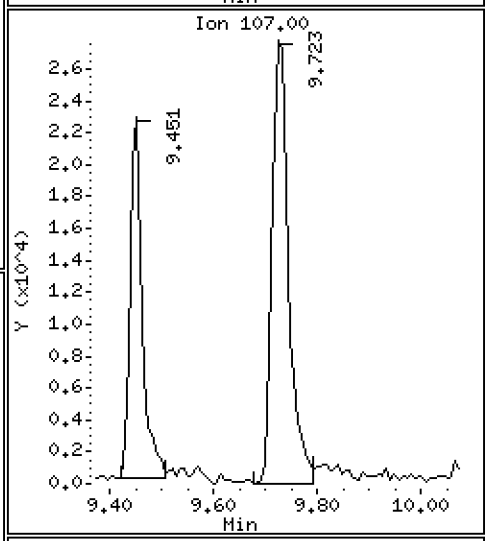


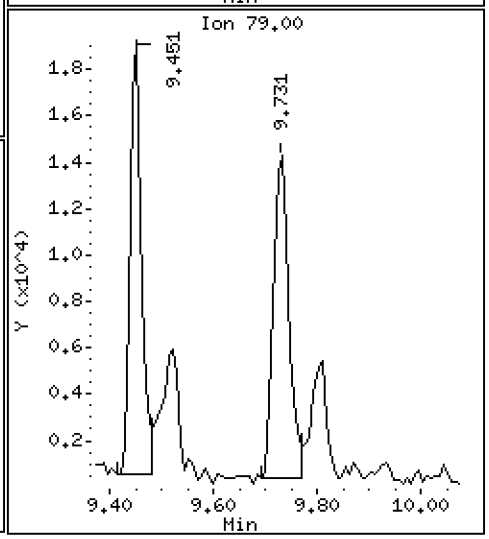












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

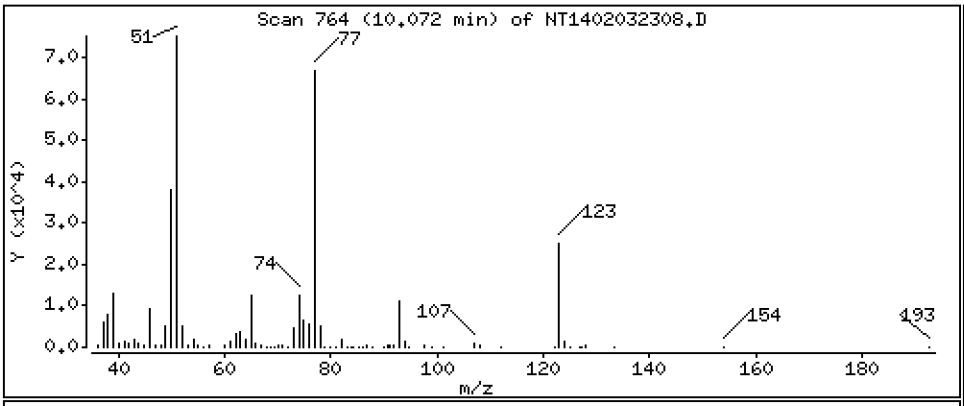
Operator: DSD

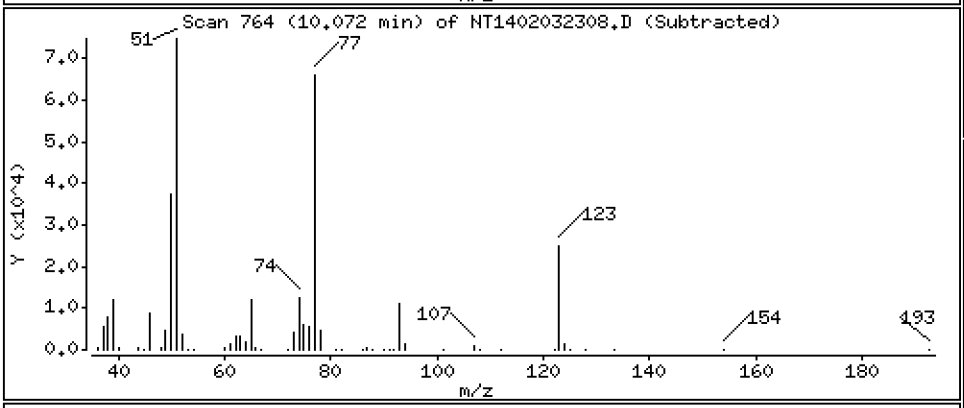
Column phase: ZB-5msi

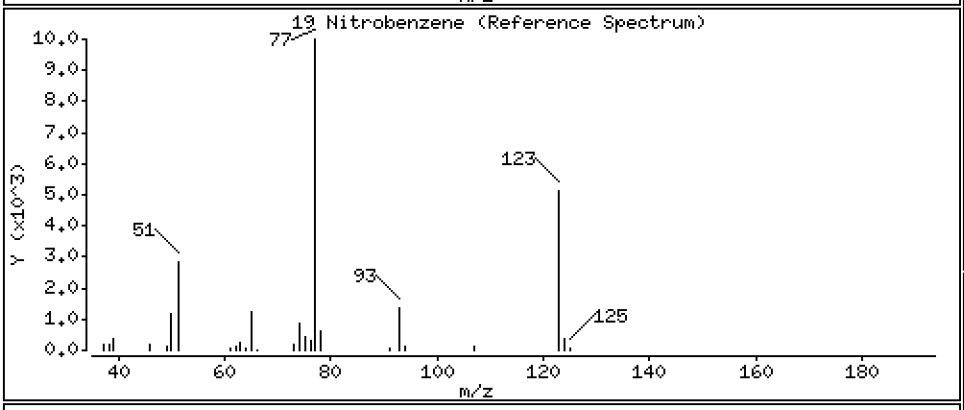
Column diameter: 0.25

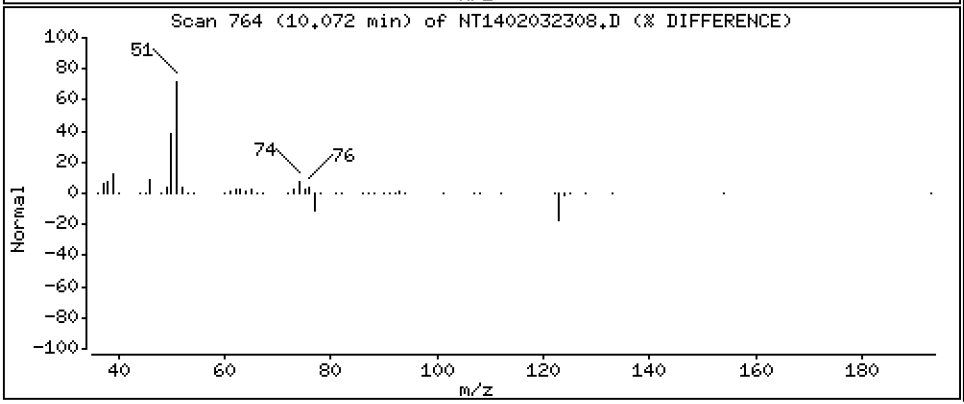
19 Nitrobenzene

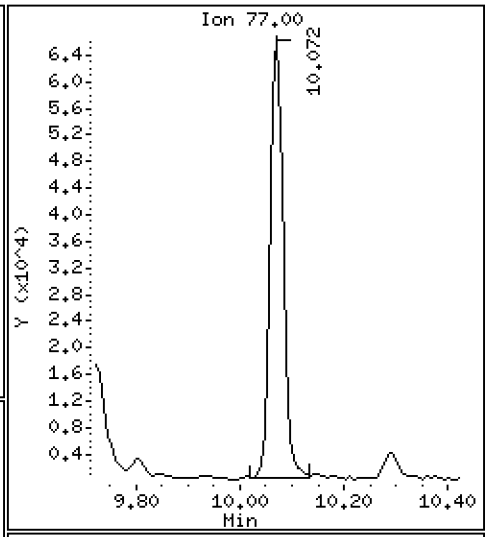
Concentration: 3.429 ug/mL

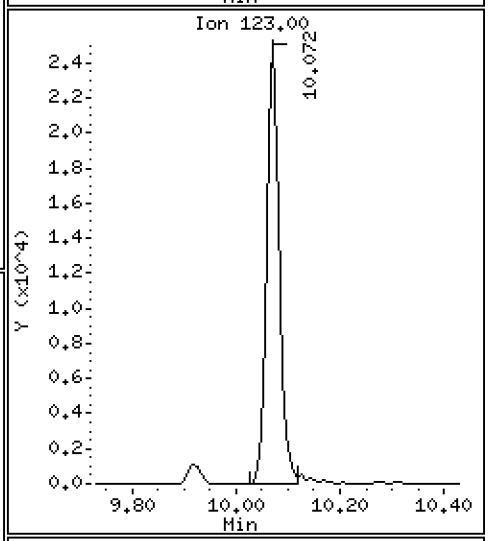


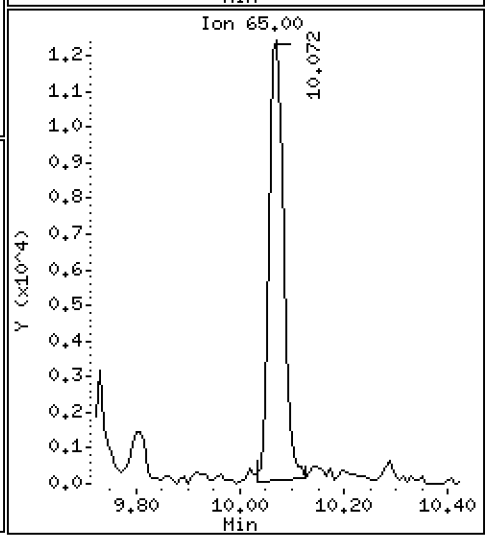












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

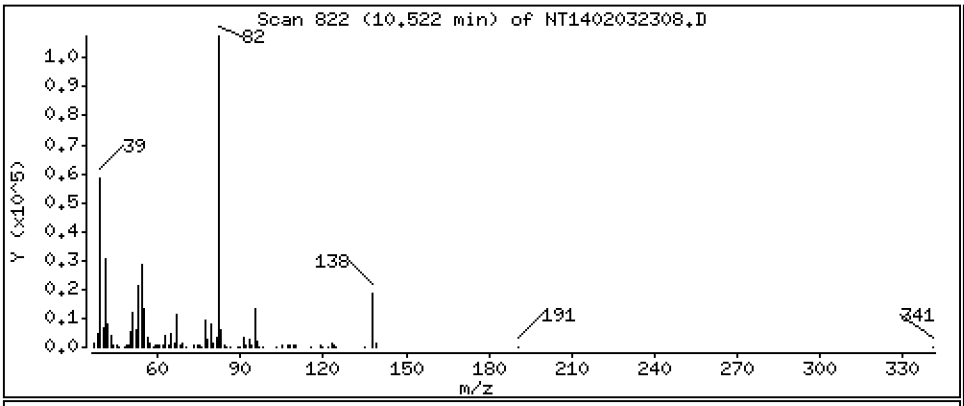
Operator: DSD

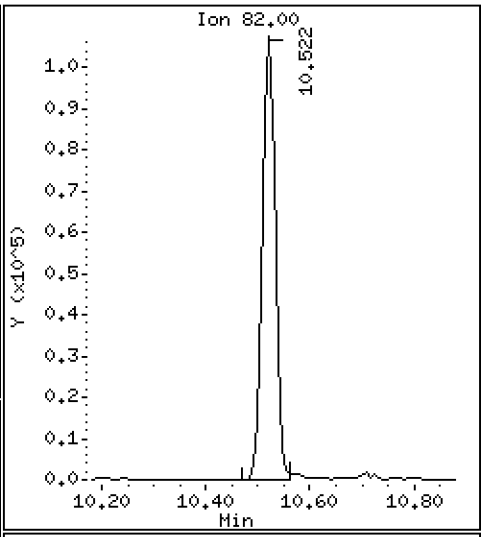
Column phase: ZB-5msi

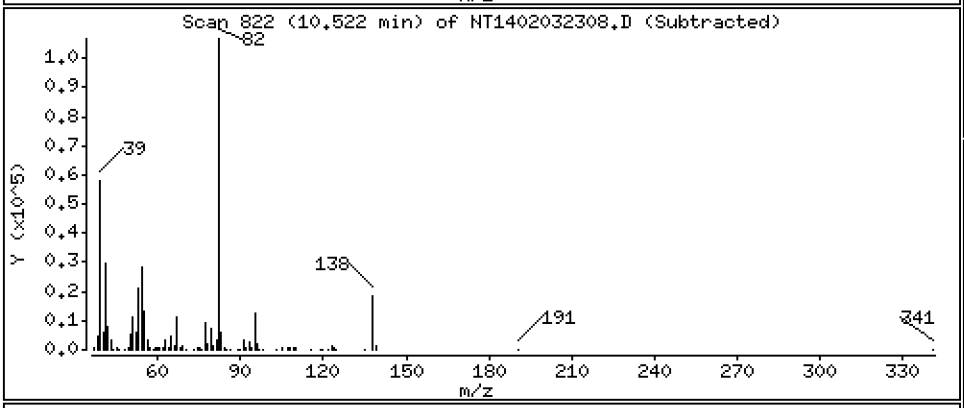
Column diameter: 0.25

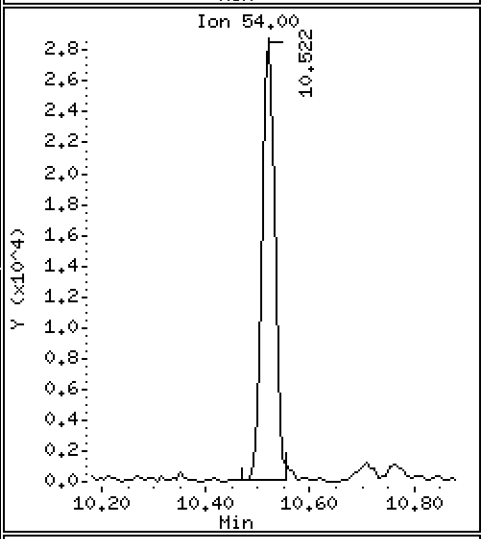
20 Isophorone

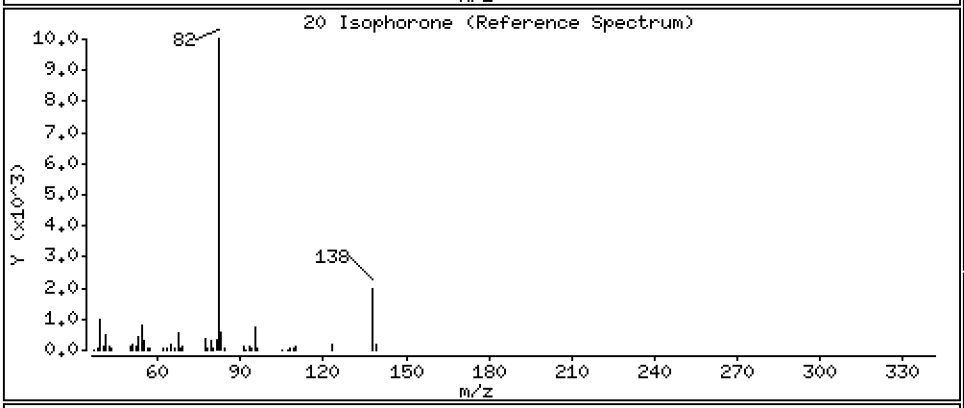
Concentration: 4.803 ug/mL

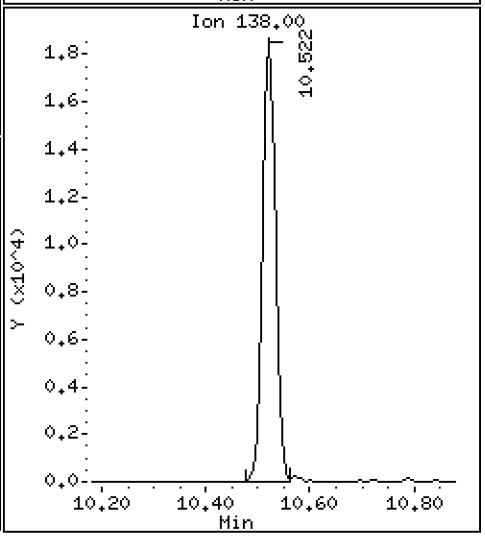


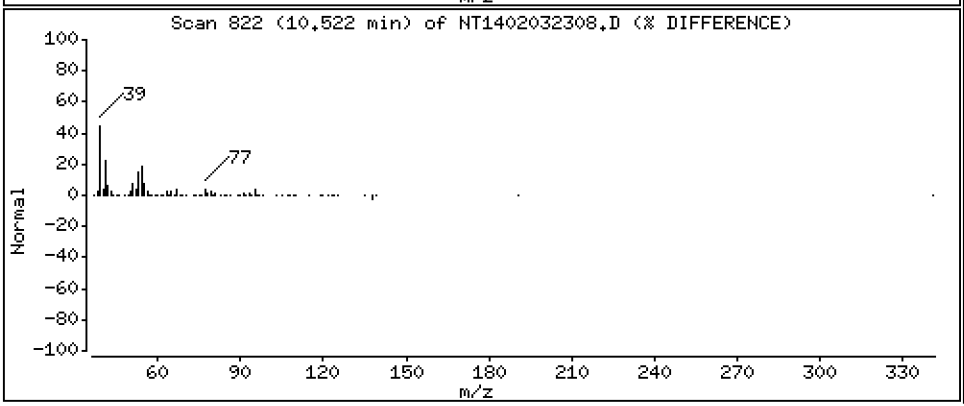












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

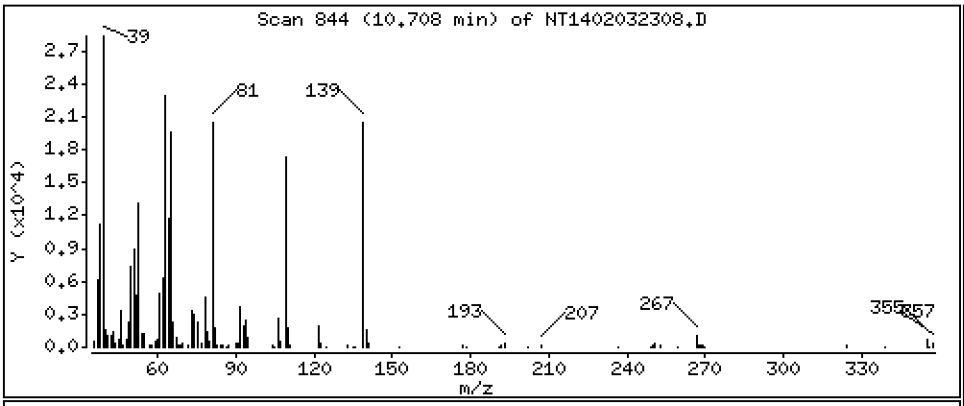
Operator: DSD

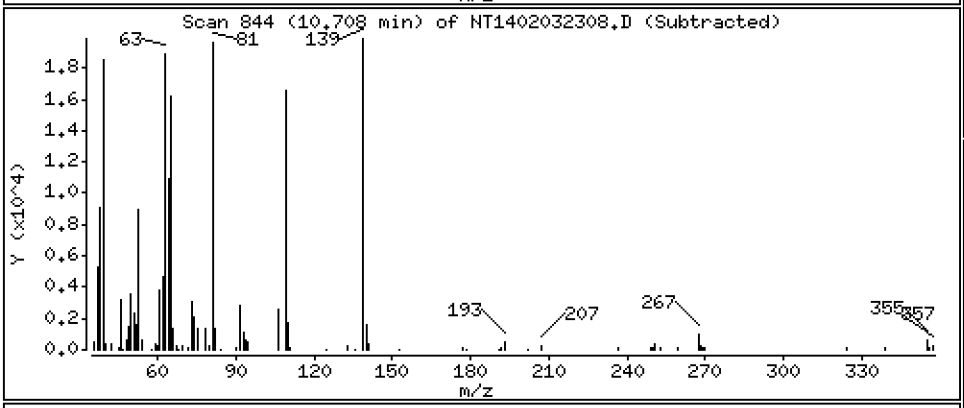
Column phase: ZB-5msi

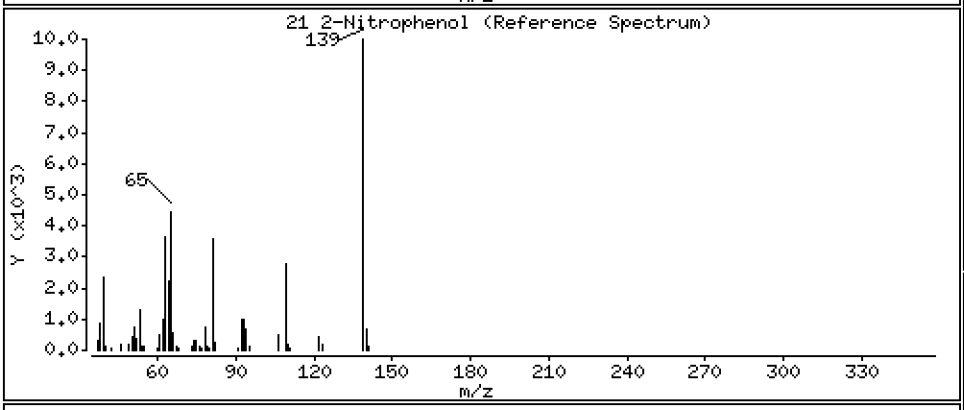
Column diameter: 0.25

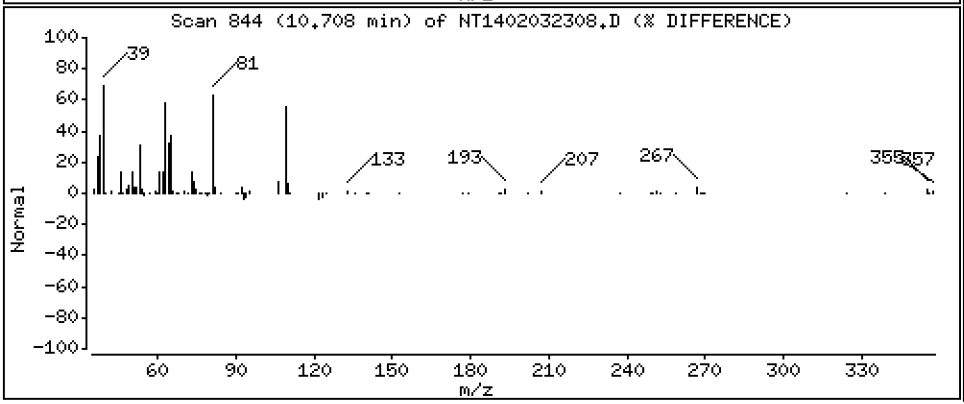
21 2-Nitrophenol

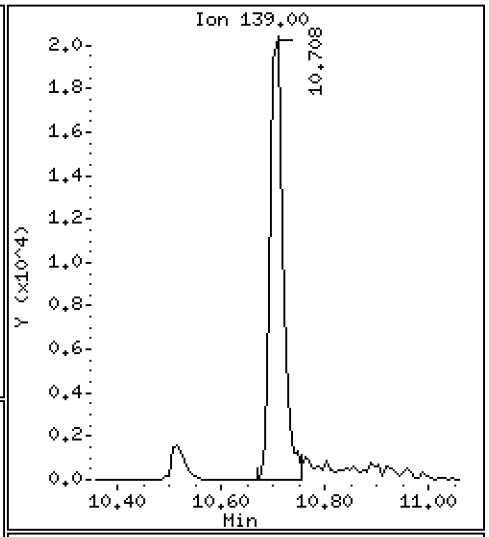
Concentration: 2.726 ug/mL

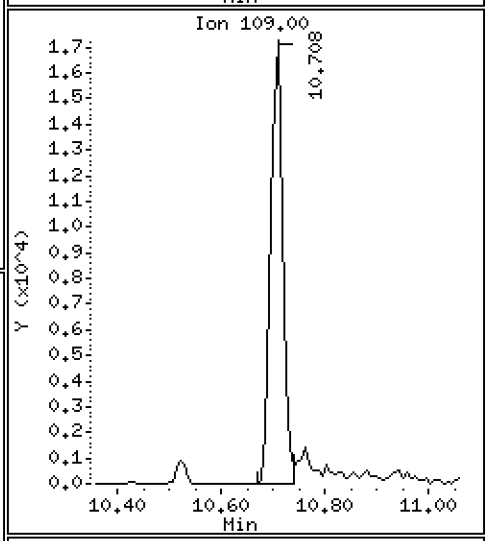


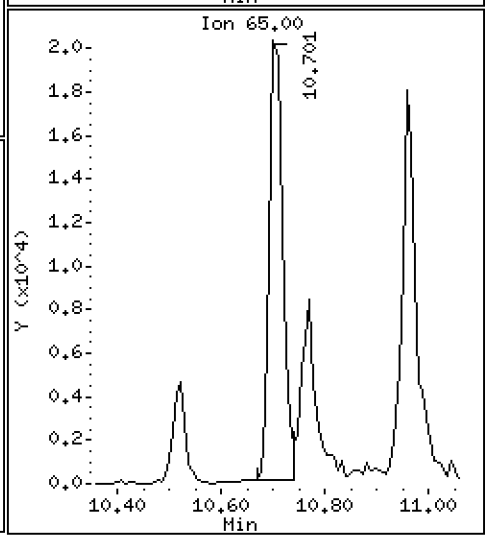












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

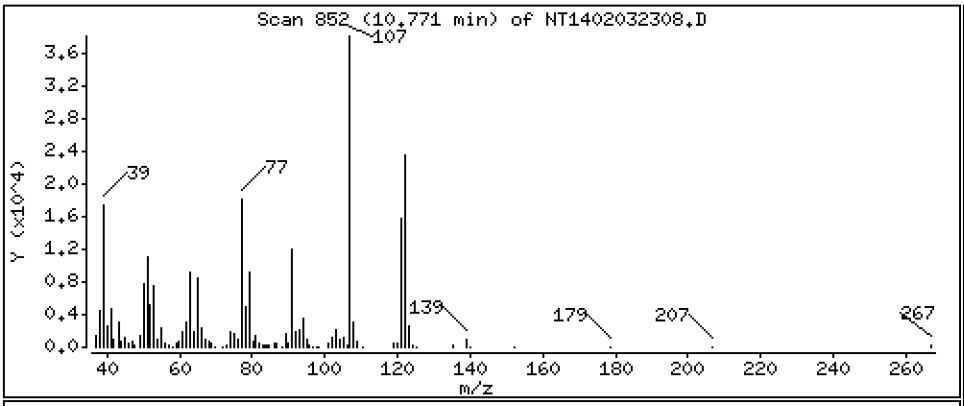
Operator: DSD

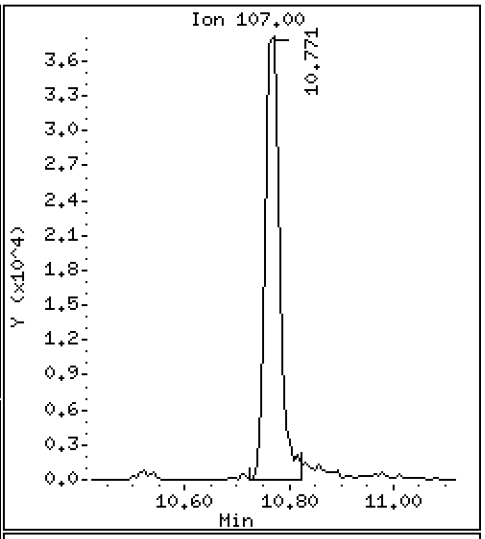
Column phase: ZB-5msi

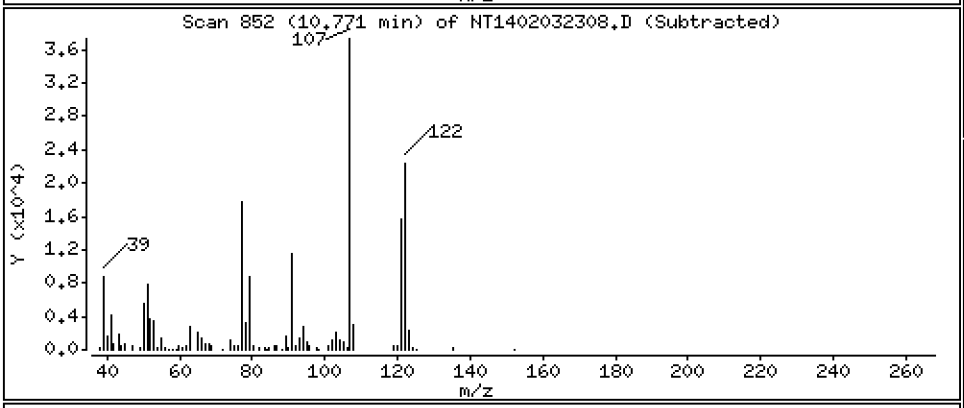
Column diameter: 0.25

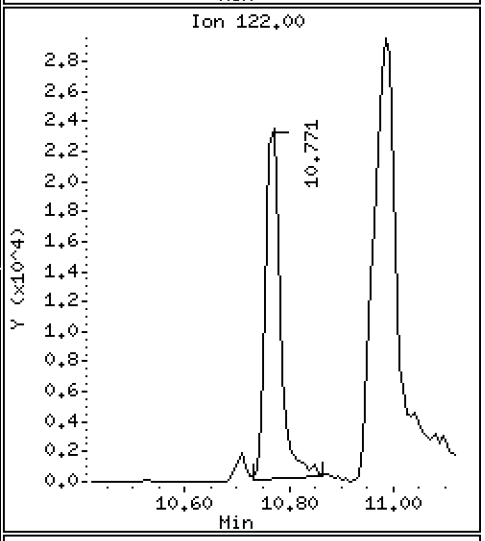
22 2,4-Dimethylphenol

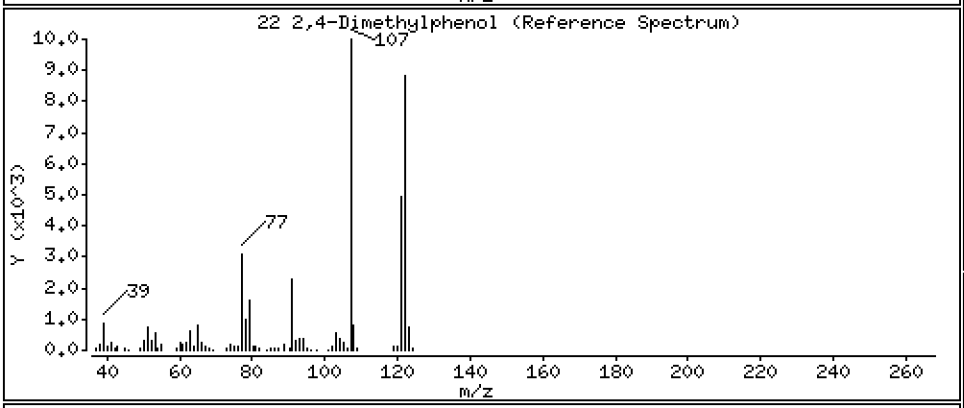
Concentration: 2.149 ug/mL

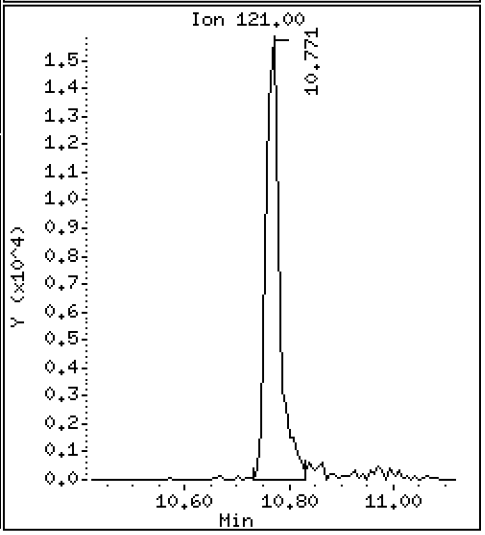


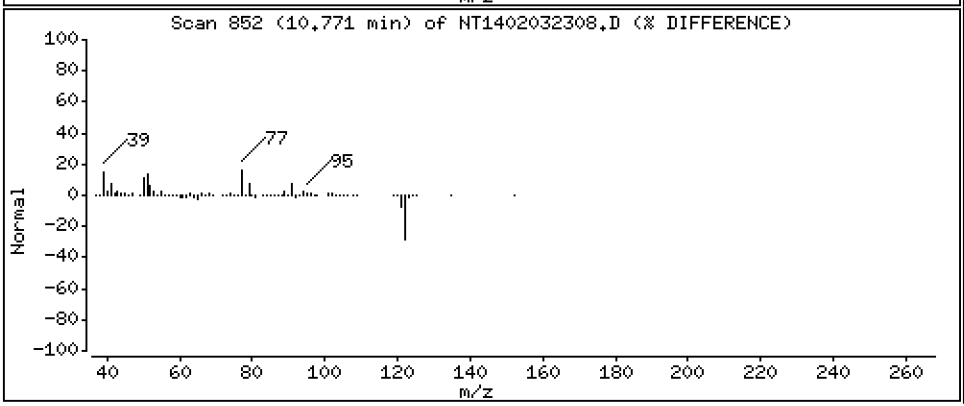












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

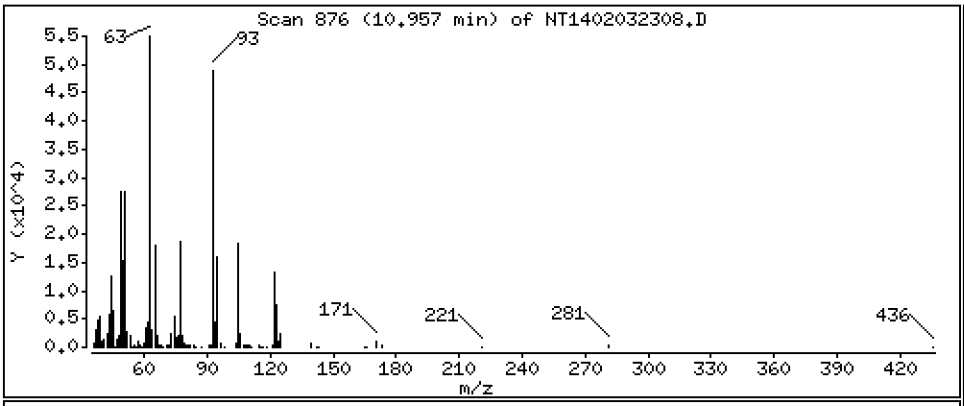
Operator: DSD

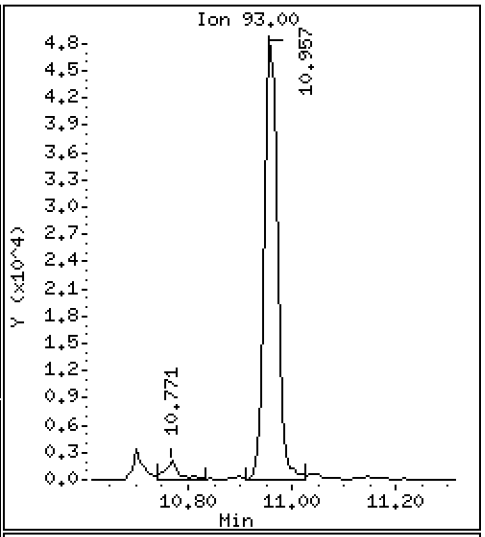
Column phase: ZB-5msi

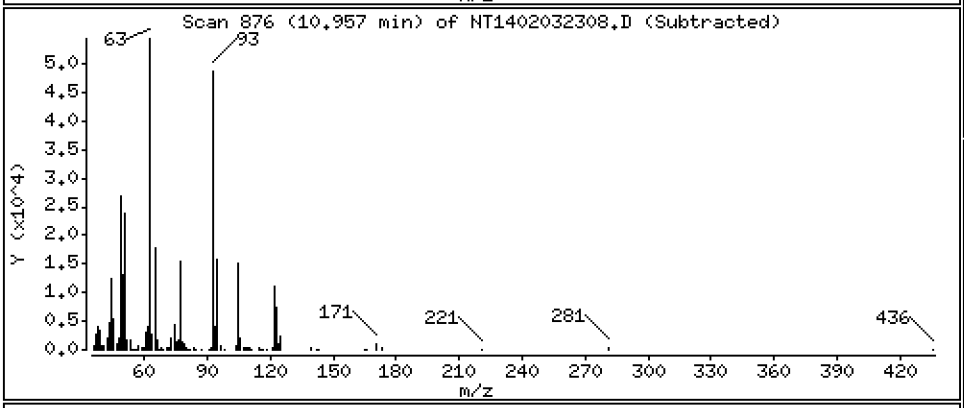
Column diameter: 0.25

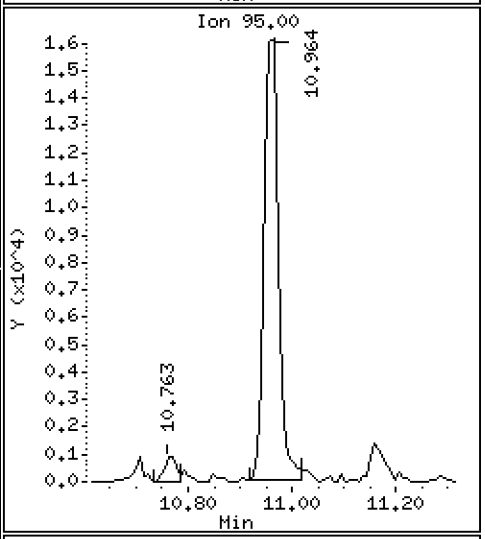
23 Bis(2-Chloroethoxy)methane

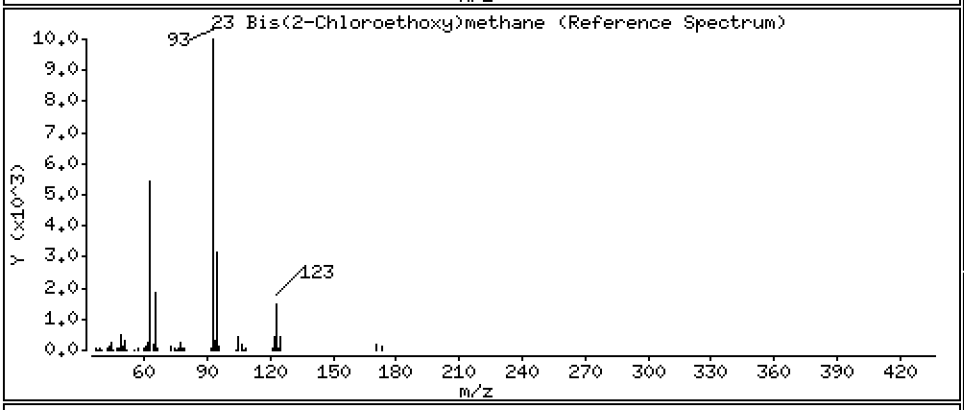
Concentration: 4.338 ug/mL

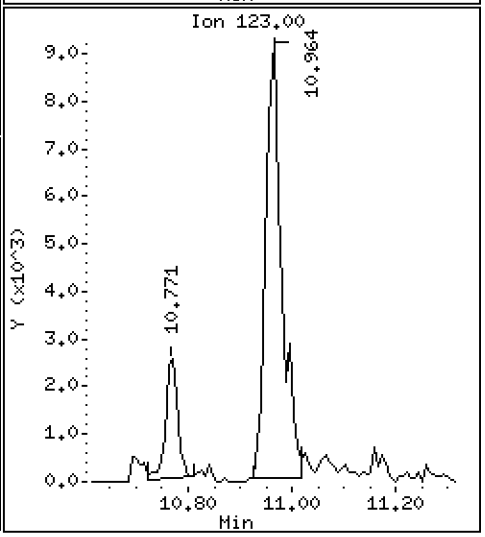


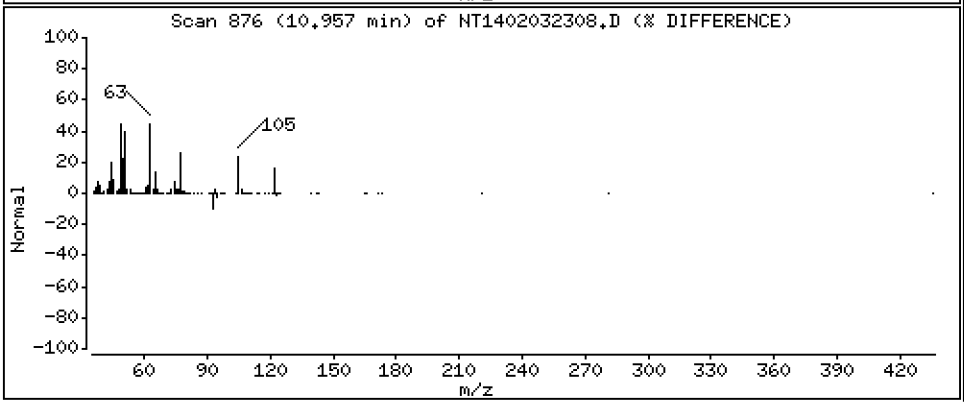












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

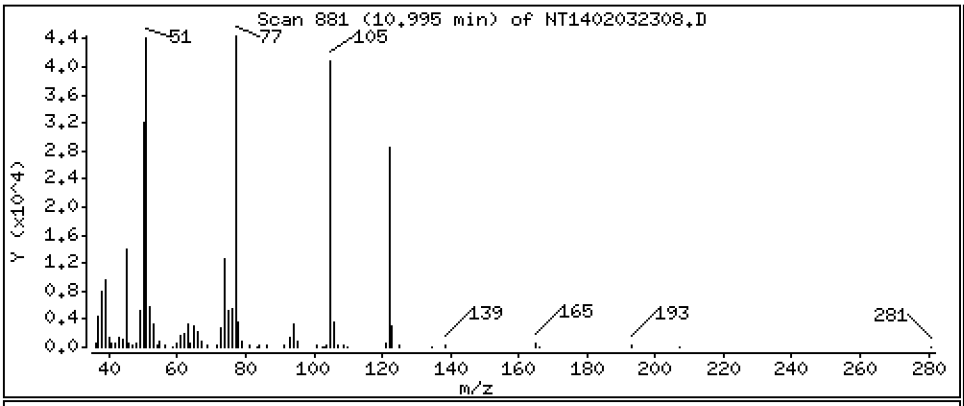
Operator: DSD

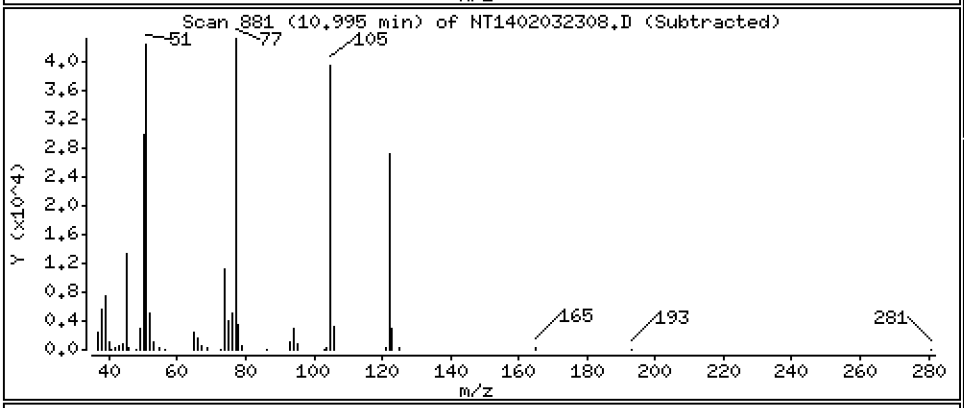
Column phase: ZB-5msi

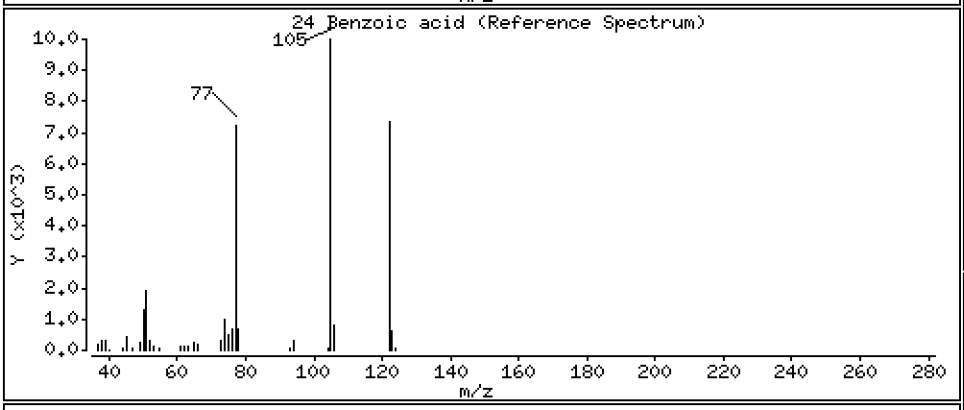
Column diameter: 0.25

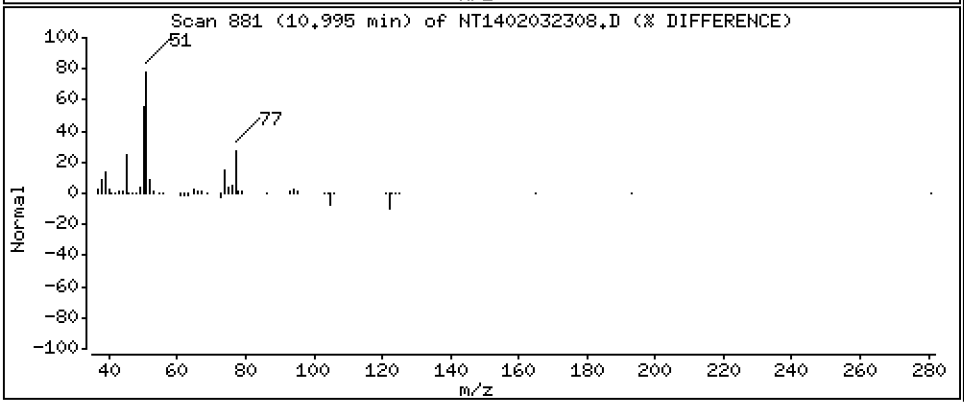
24 Benzoic acid

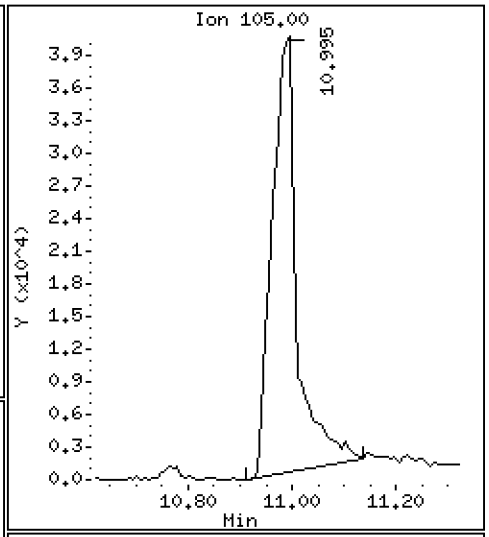
Concentration: 6.764 ug/mL

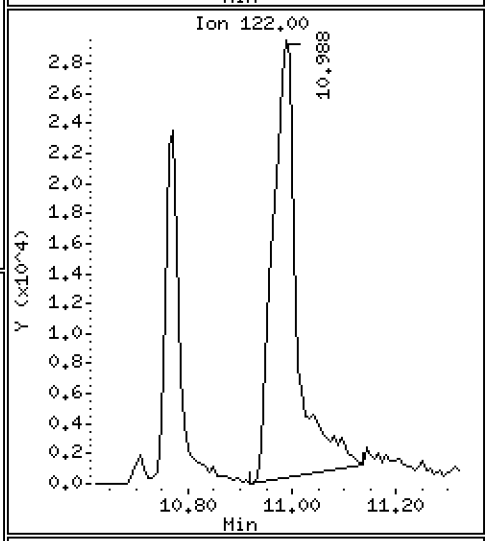


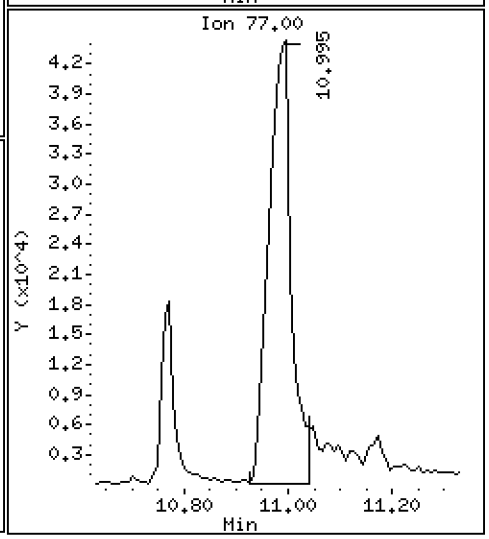












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

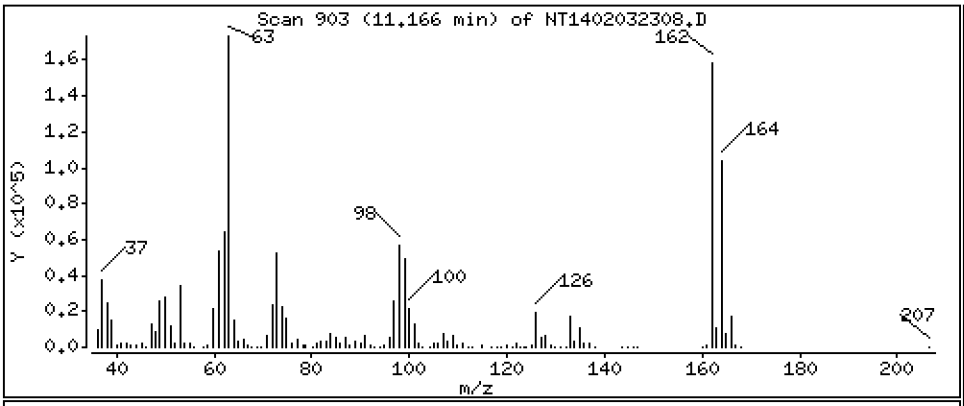
Operator: DSD

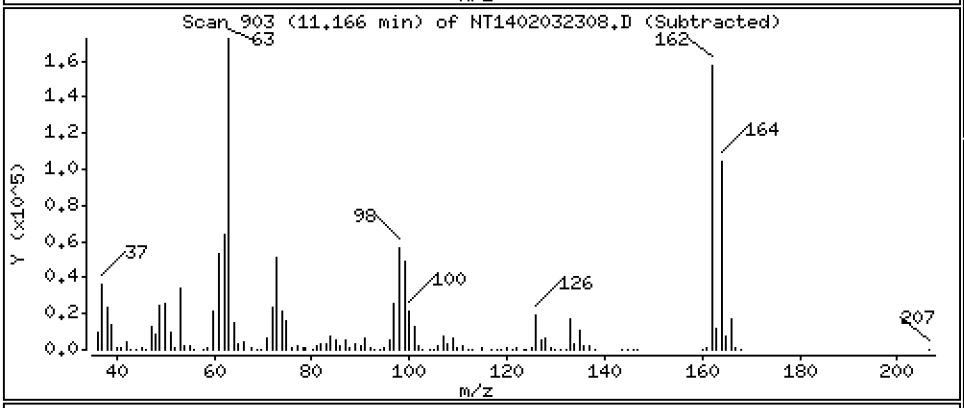
Column phase: ZB-5msi

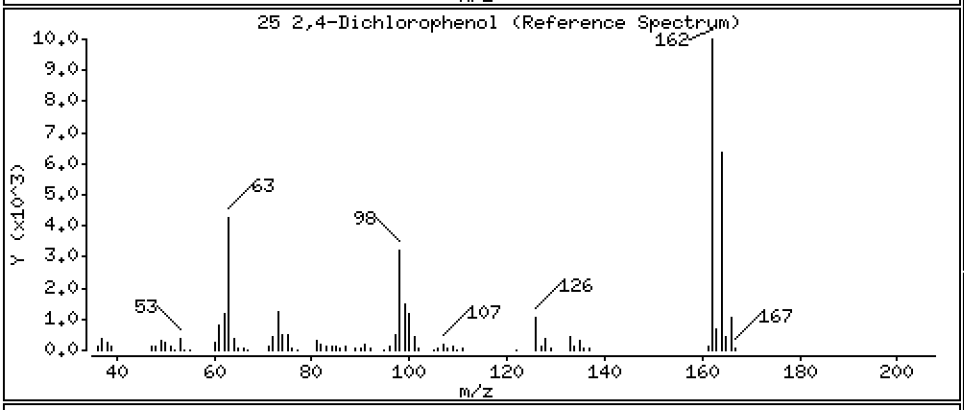
Column diameter: 0.25

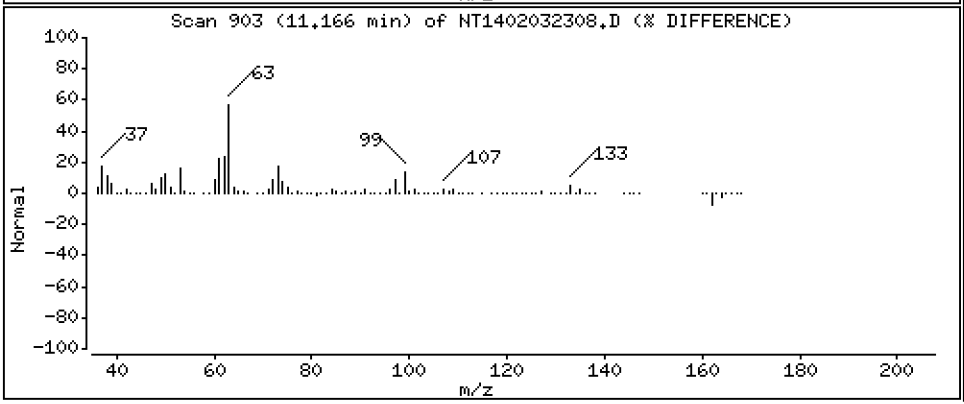
25 2,4-Dichlorophenol

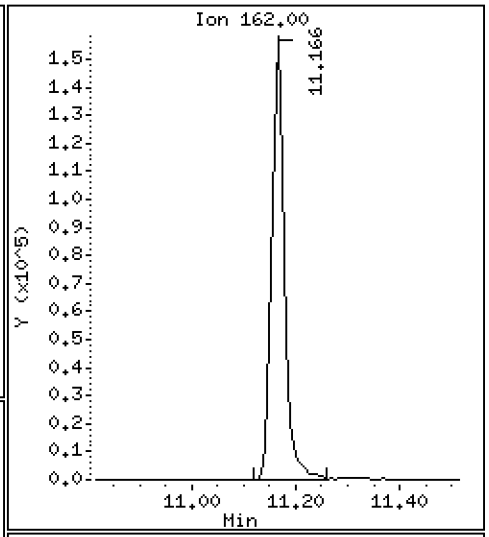
Concentration: 12.30 ug/mL

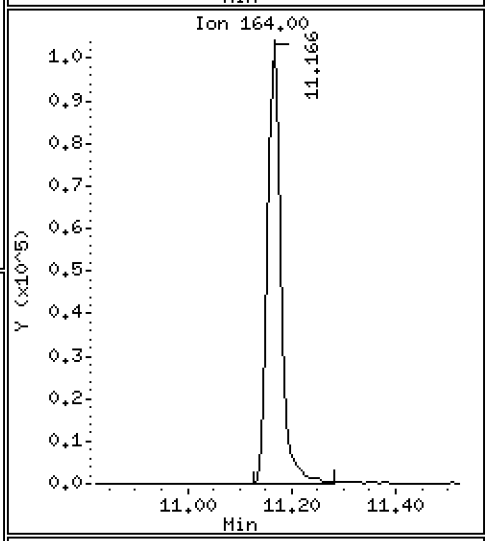


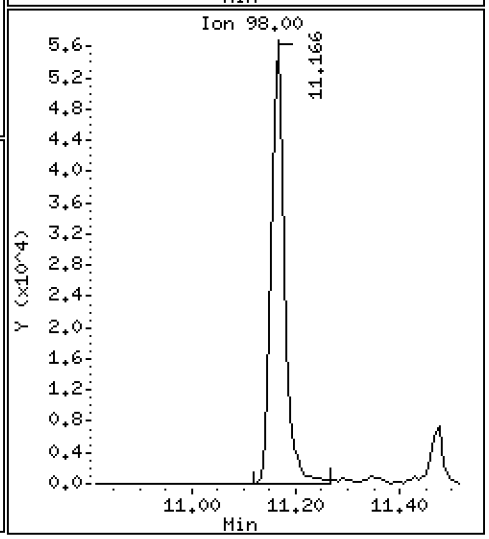












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

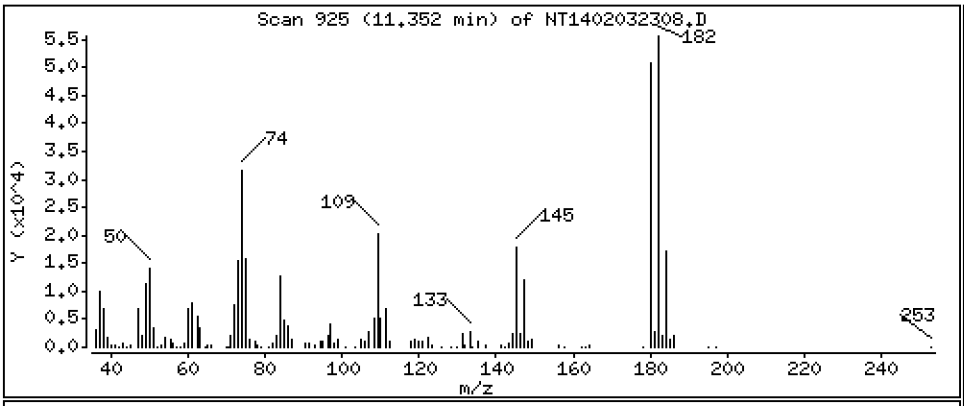
Operator: DSD

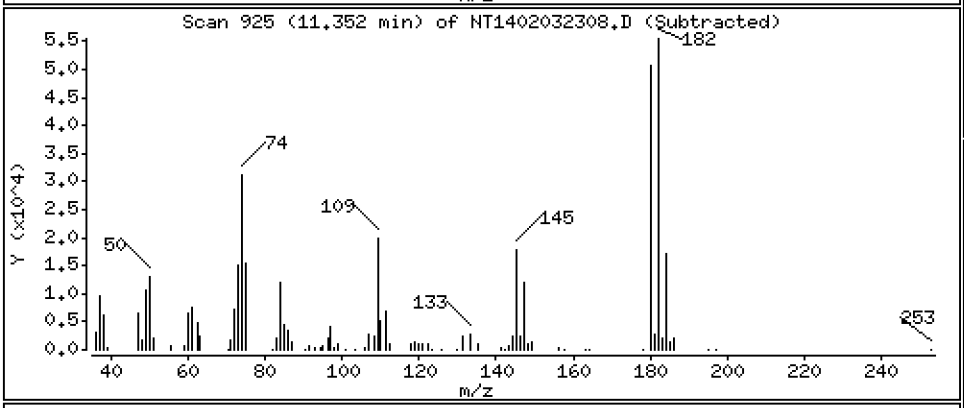
Column phase: ZB-5msi

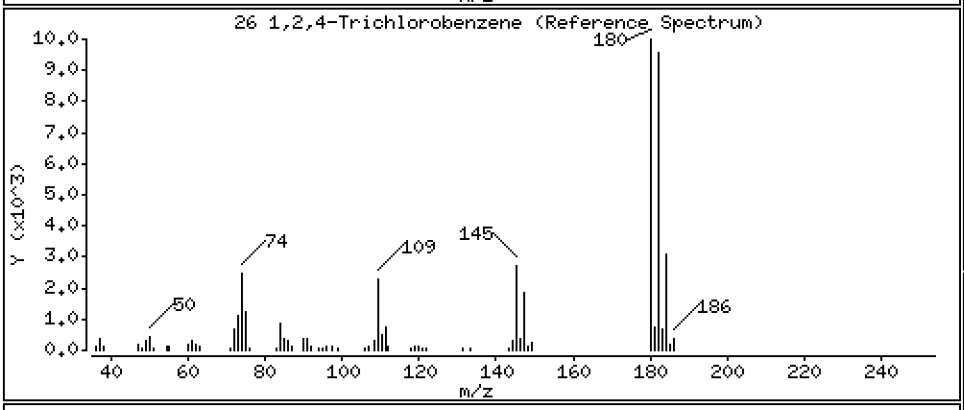
Column diameter: 0.25

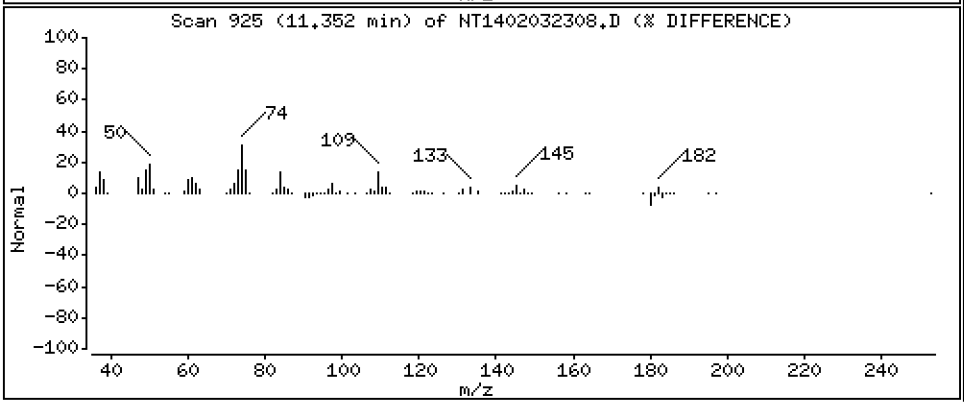
26 1,2,4-Trichlorobenzene

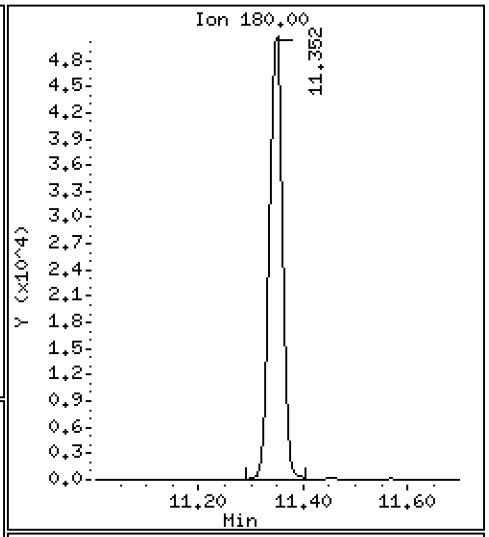
Concentration: 4.276 ug/mL

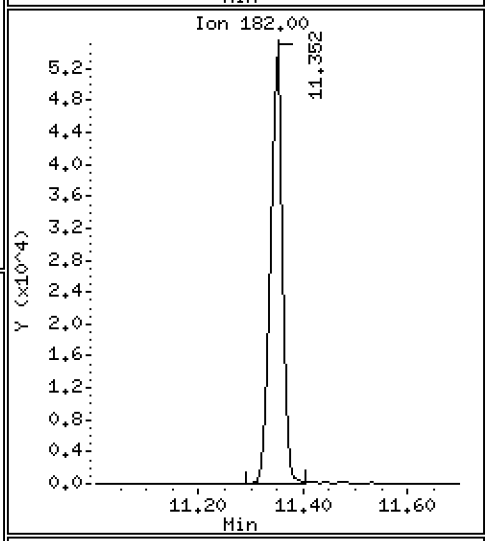


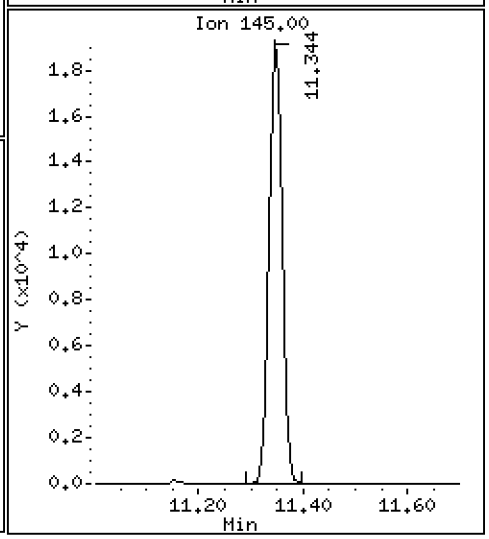












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

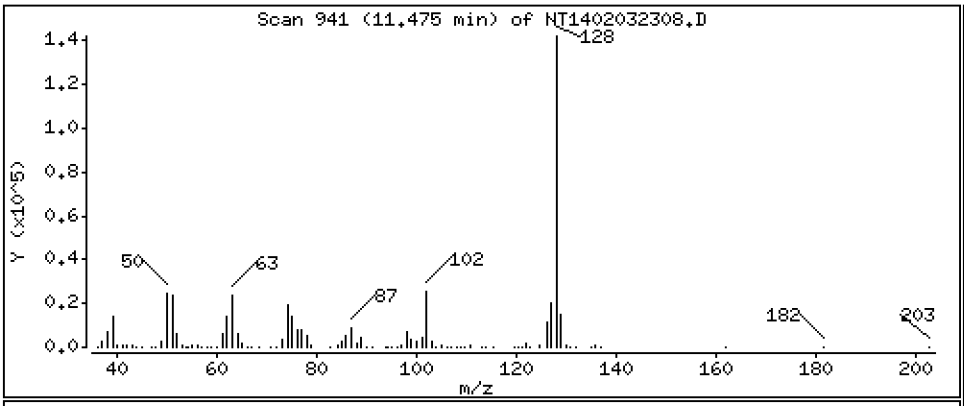
Operator: DSD

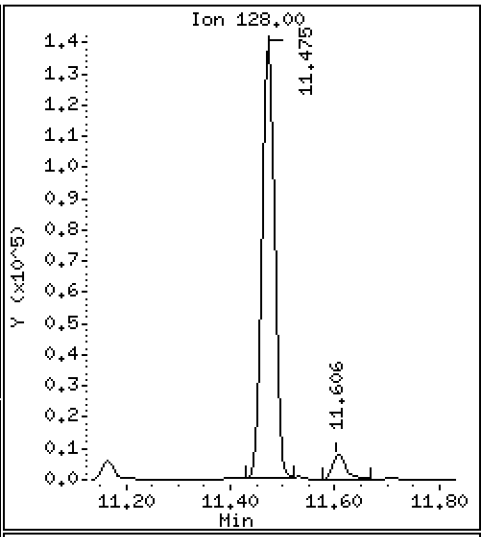
Column phase: ZB-5msi

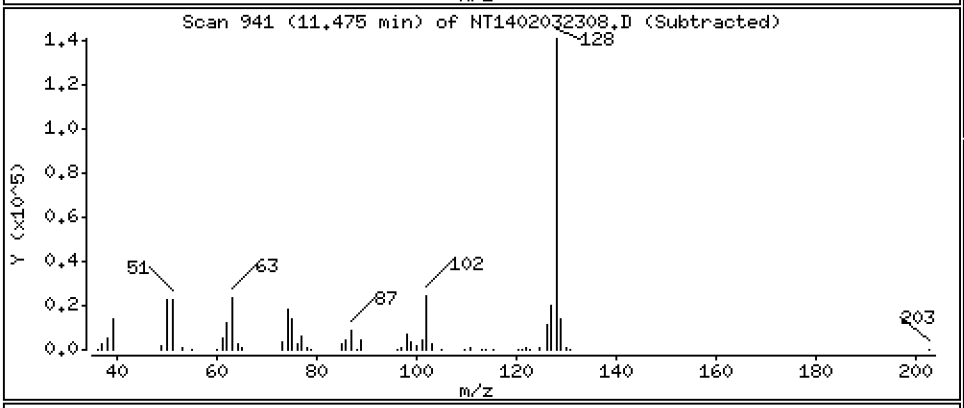
Column diameter: 0.25

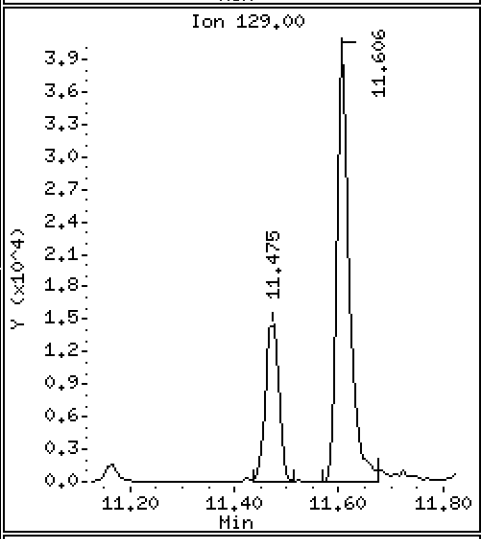
28 Naphthalene

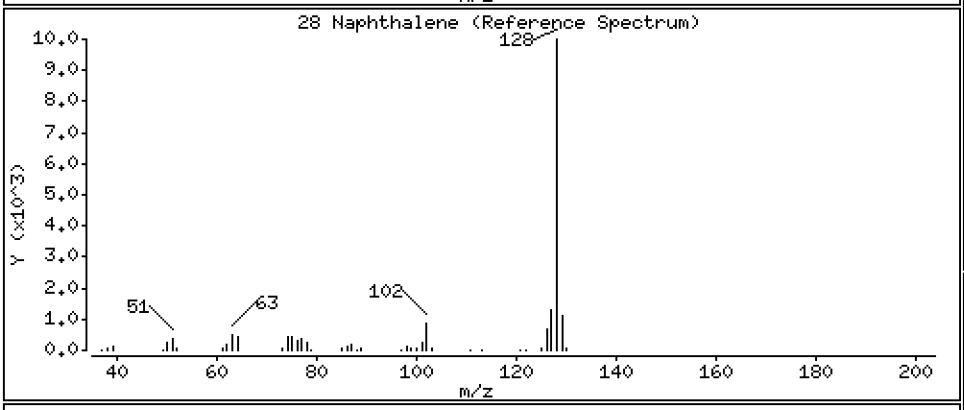
Concentration: 3.808 ug/mL

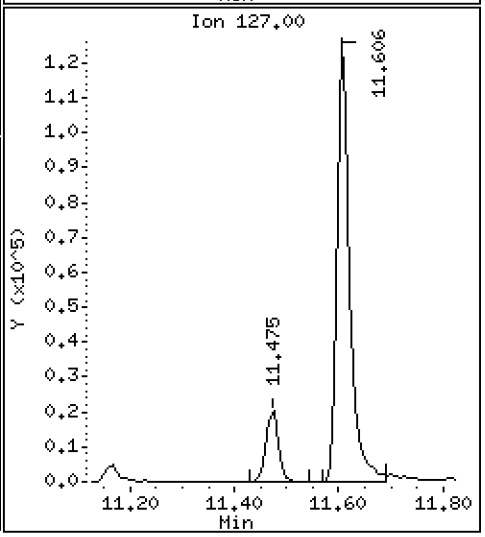


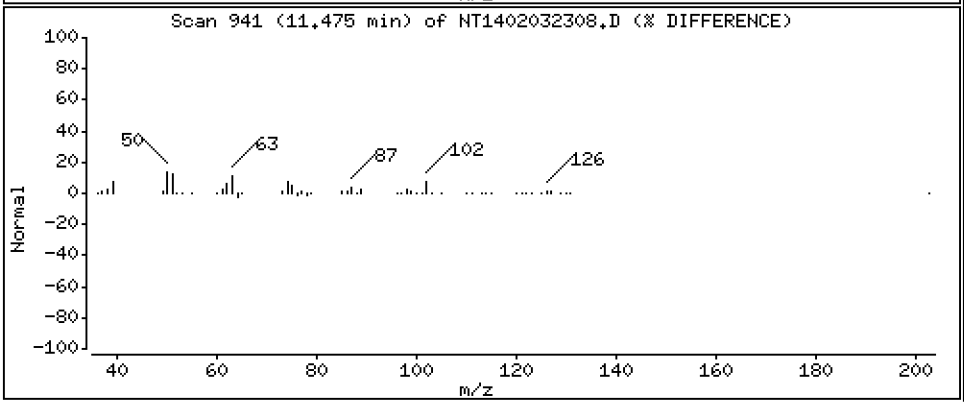












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

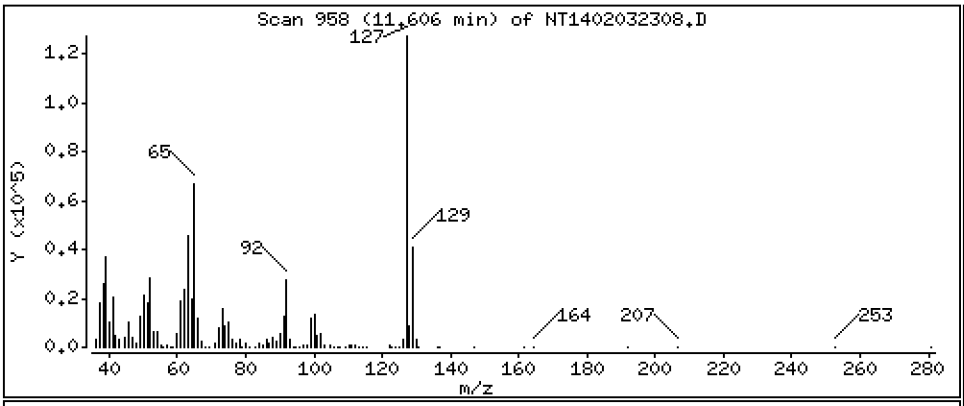
Operator: DSD

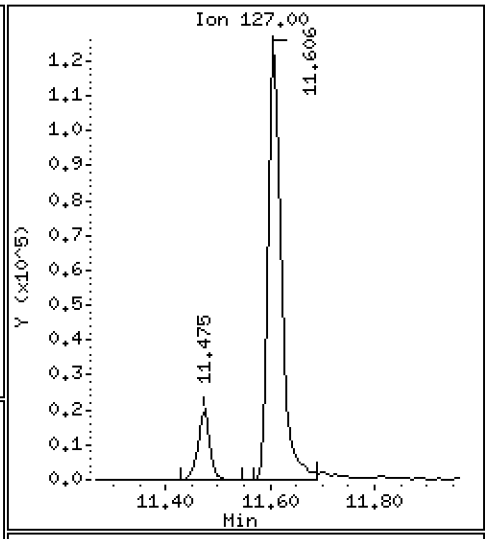
Column phase: ZB-5msi

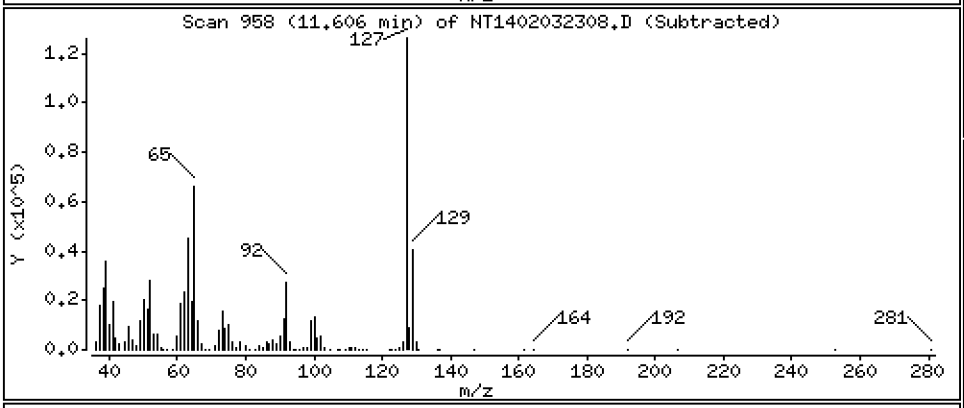
Column diameter: 0.25

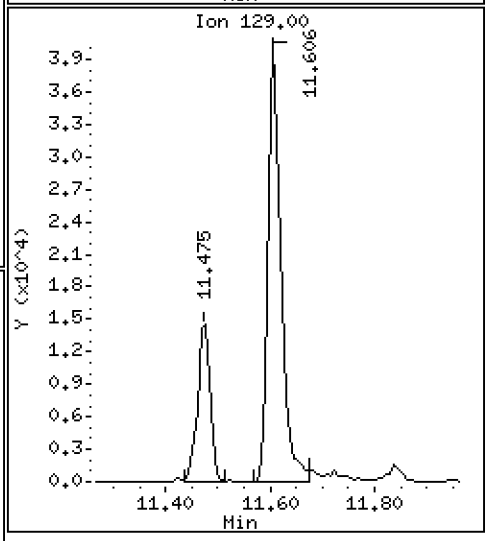
29 4-Chloroaniline

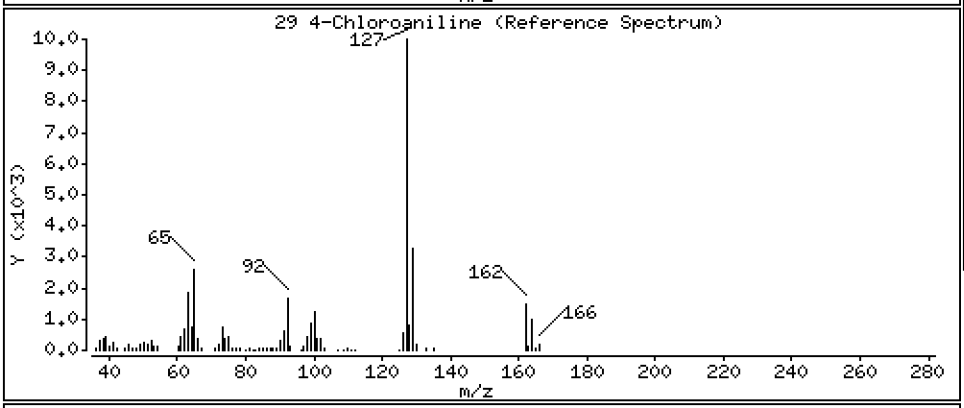
Concentration: 8.460 ug/mL

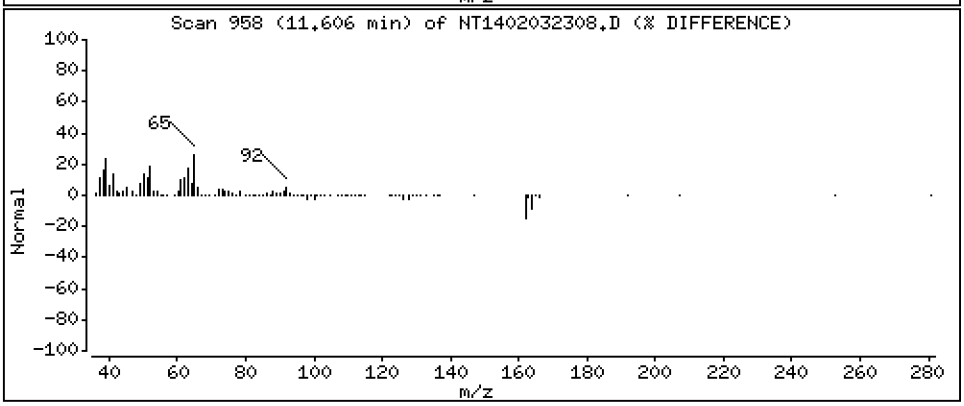












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

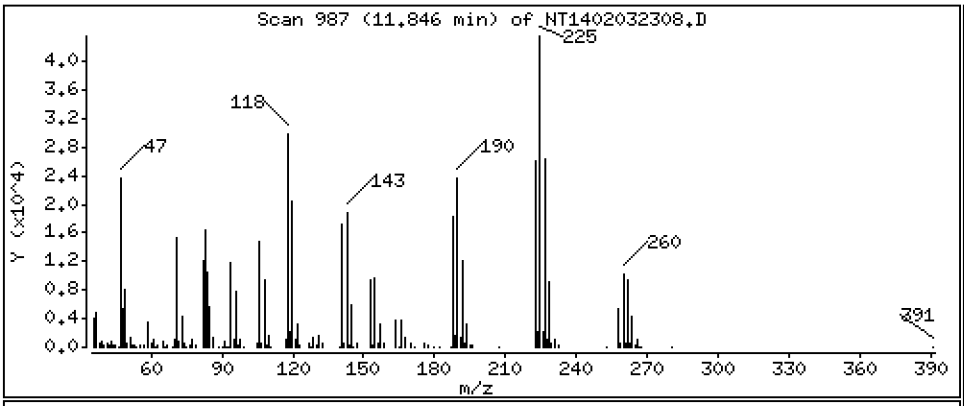
Operator: DSD

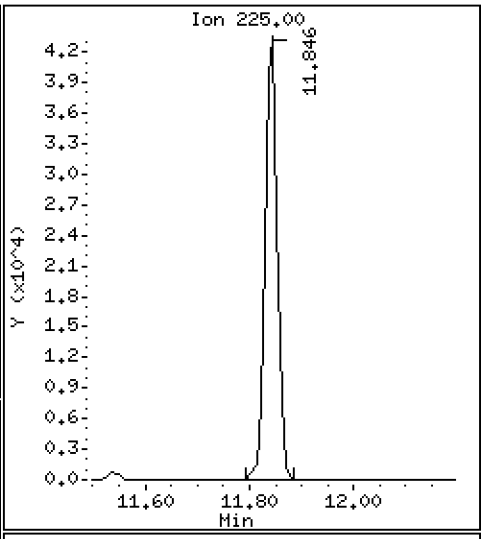
Column phase: ZB-5msi

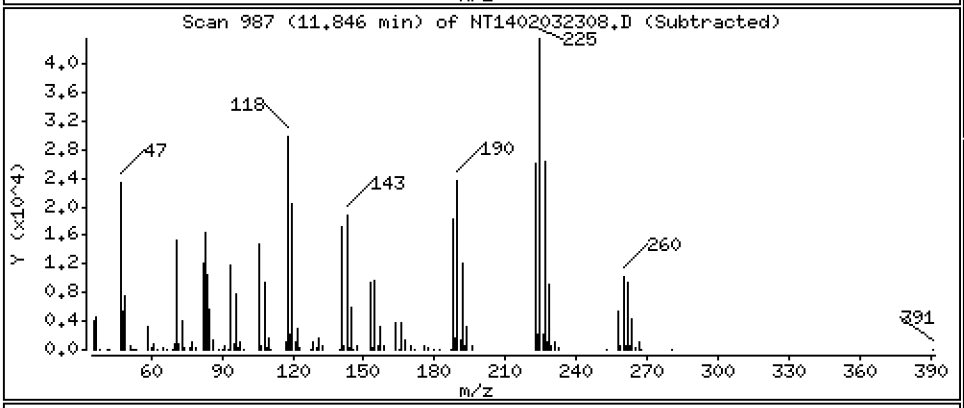
Column diameter: 0.25

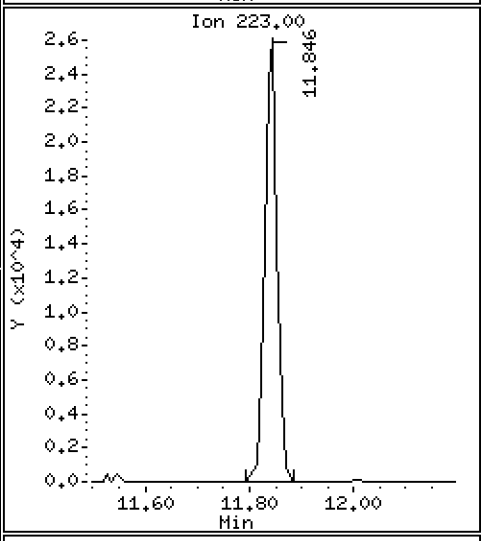
30 Hexachlorobutadiene

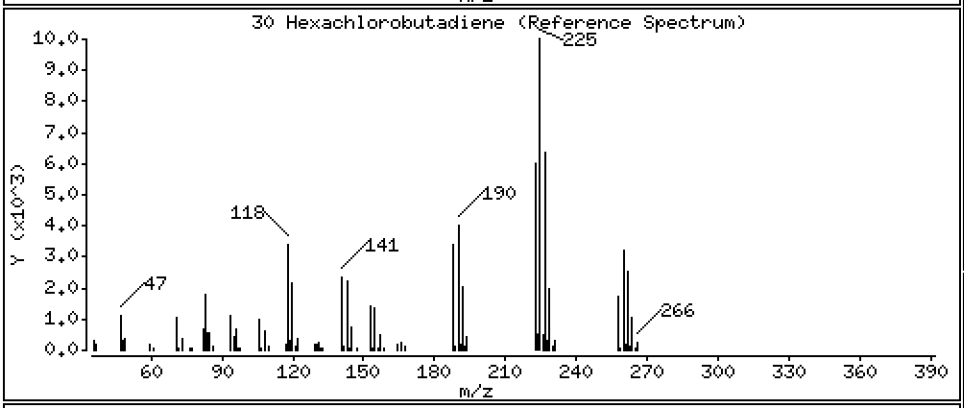
Concentration: 4.582 ug/mL

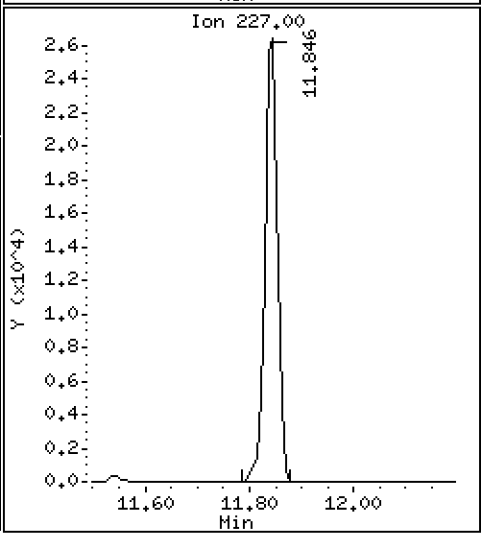


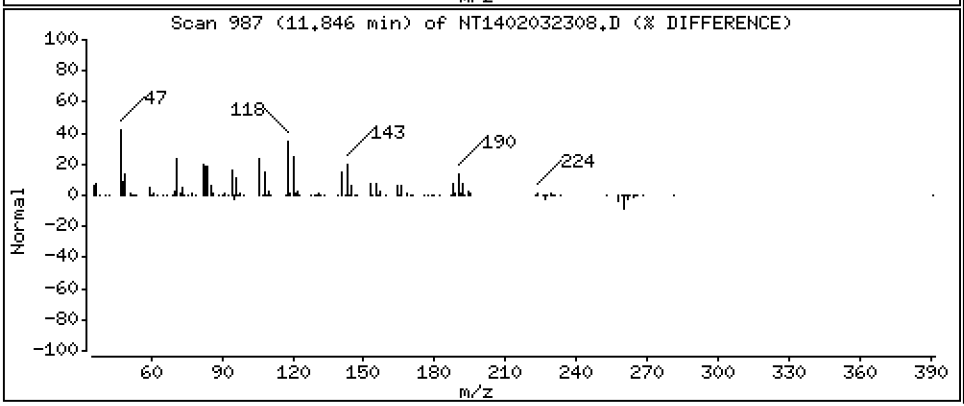












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

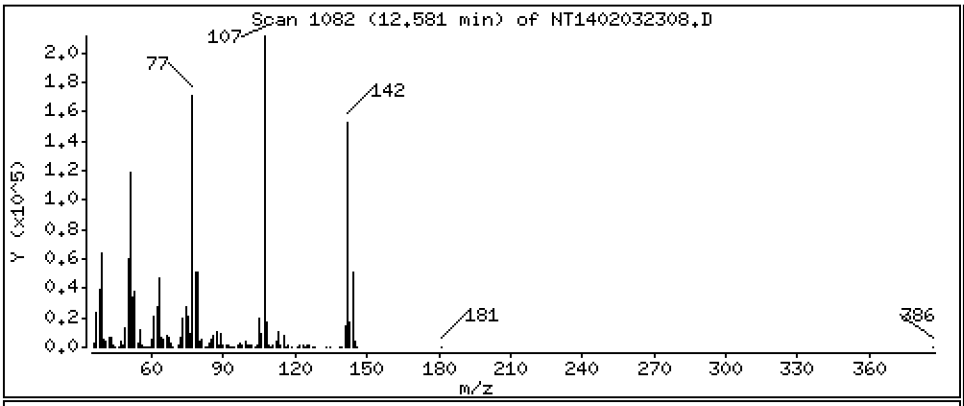
Operator: DSD

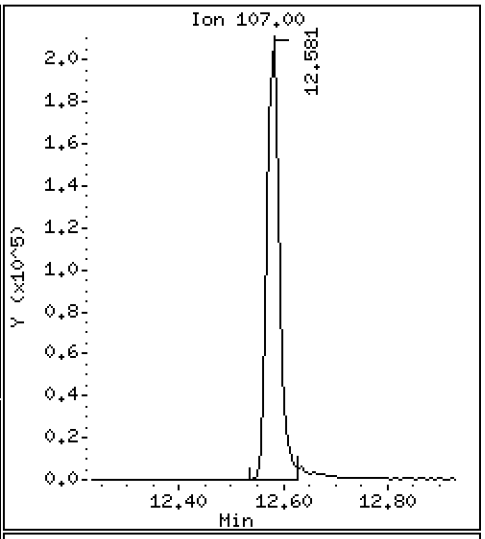
Column phase: ZB-5msi

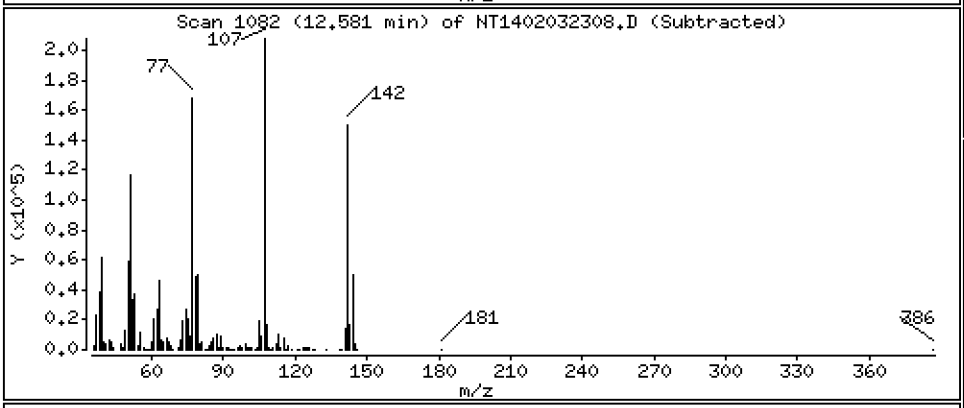
Column diameter: 0.25

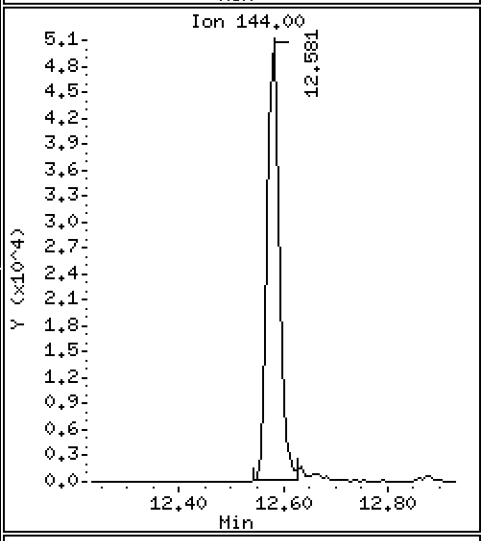
31 4-Chloro-3-methylphenol

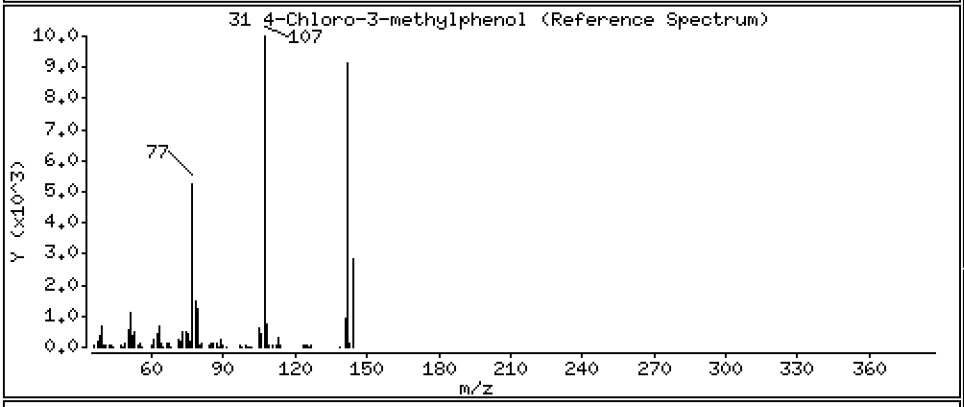
Concentration: 11.49 ug/mL

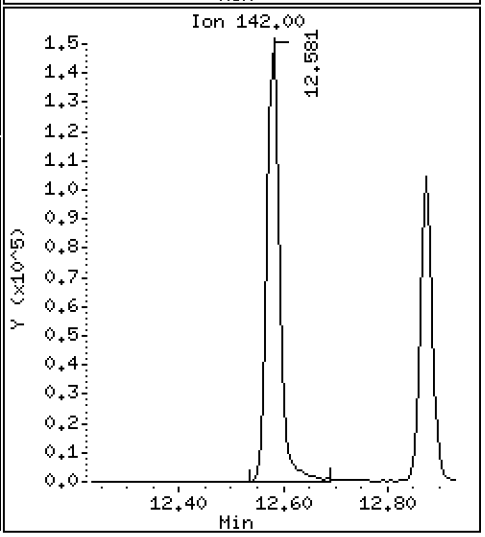


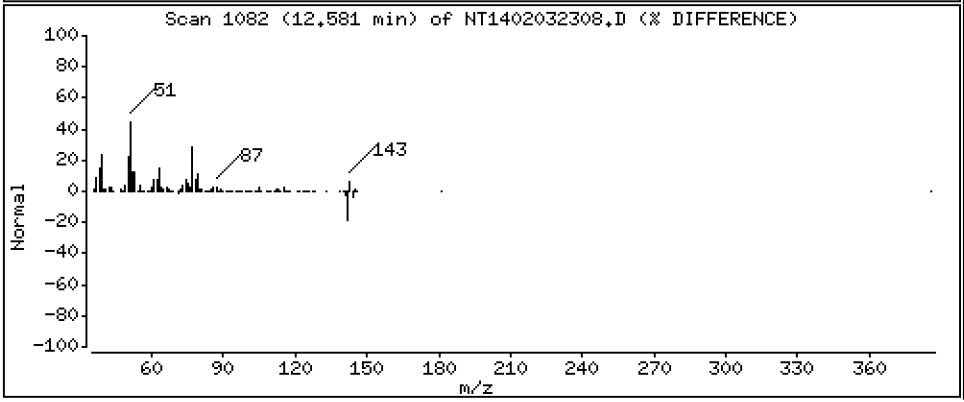












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

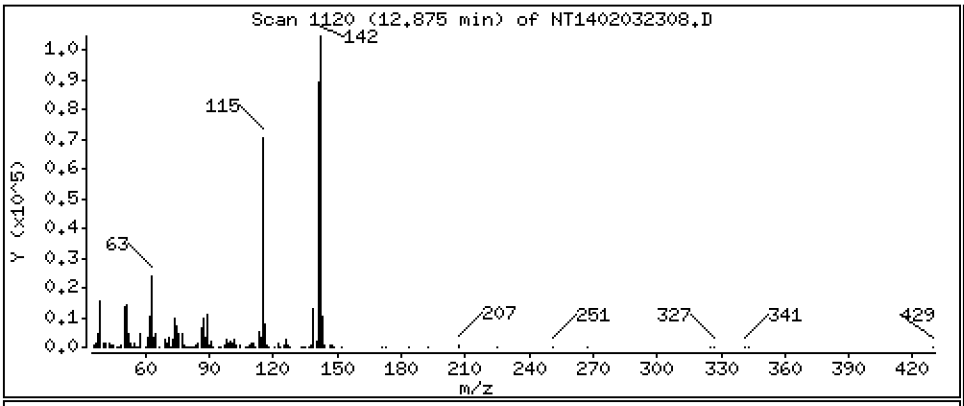
Operator: DSD

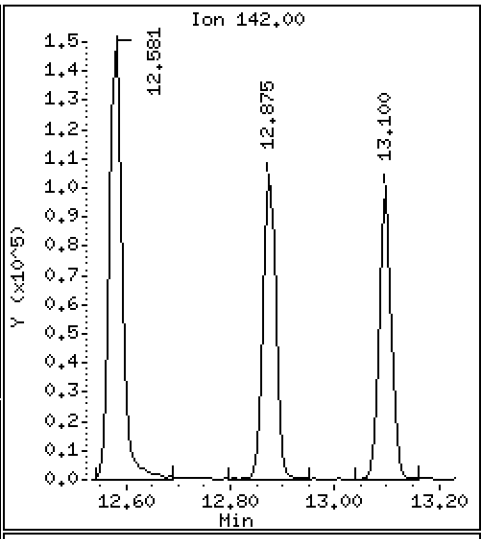
Column phase: ZB-5msi

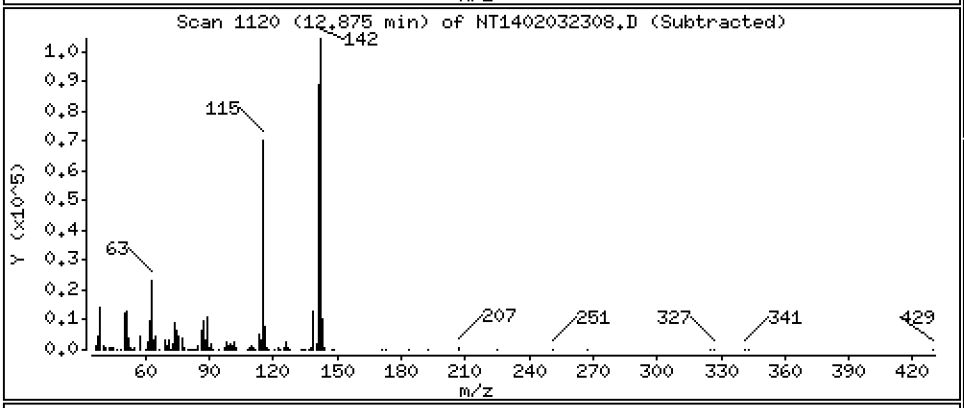
Column diameter: 0.25

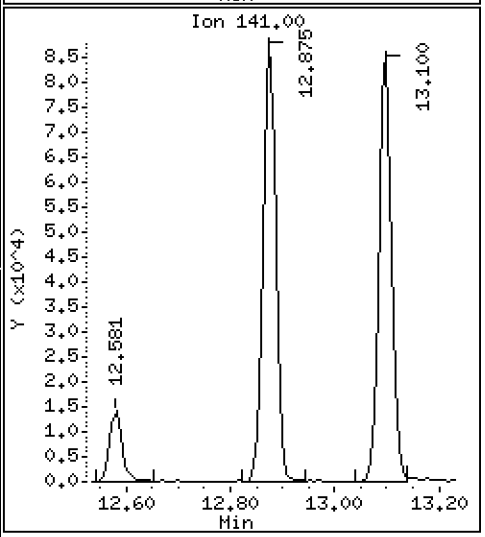
32 2-Methylnaphthalene

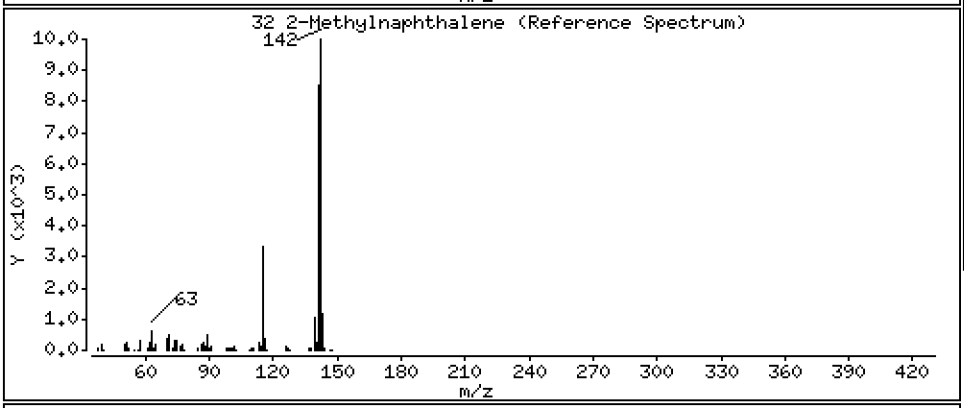
Concentration: 3.559 ug/mL

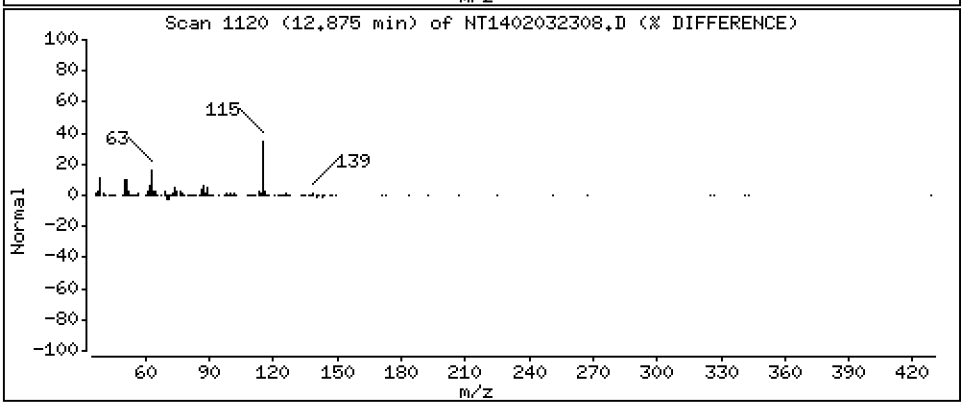












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

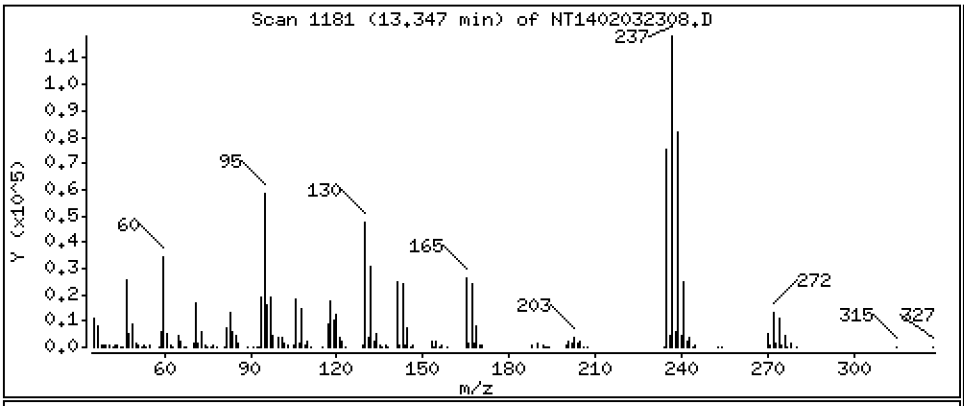
Operator: DSD

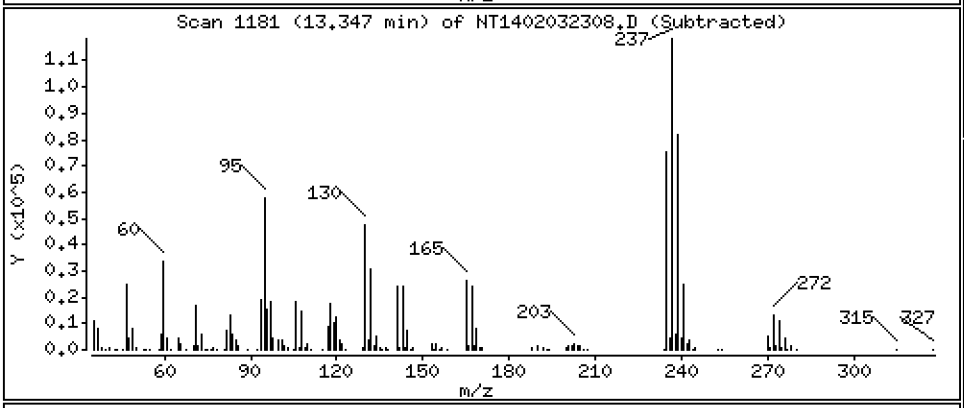
Column phase: ZB-5msi

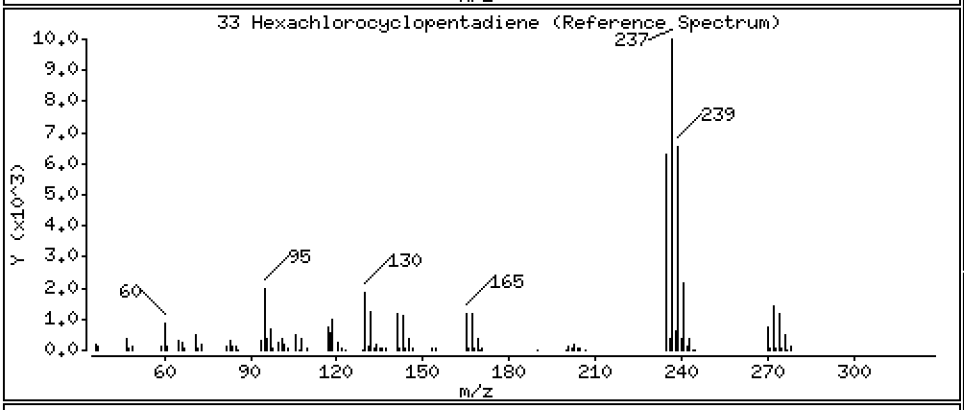
Column diameter: 0.25

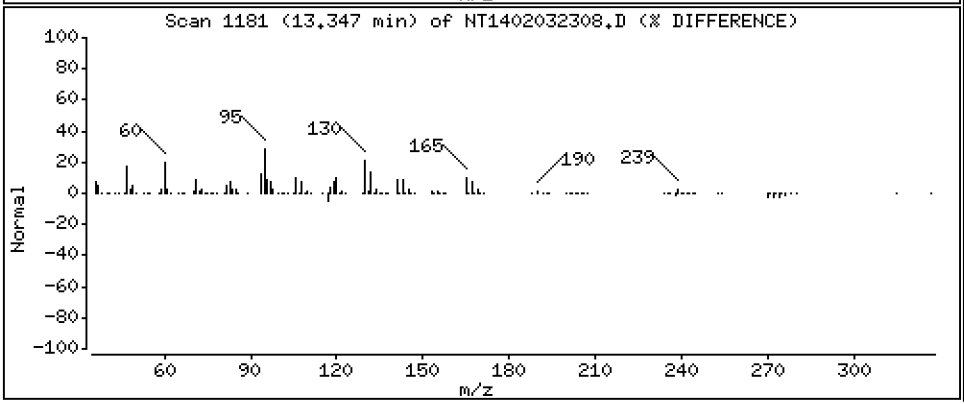
33 Hexachlorocyclopentadiene

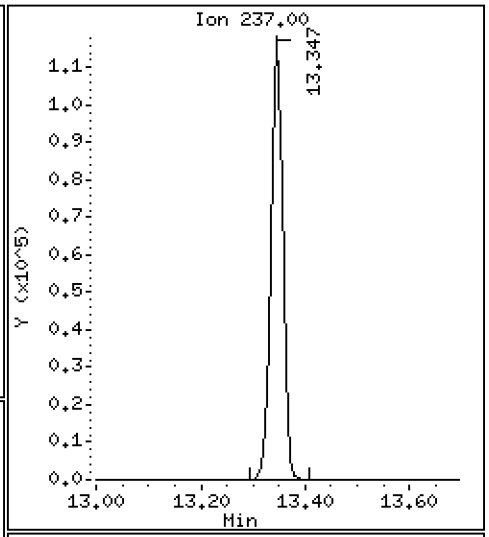
Concentration: 8.128 ug/mL

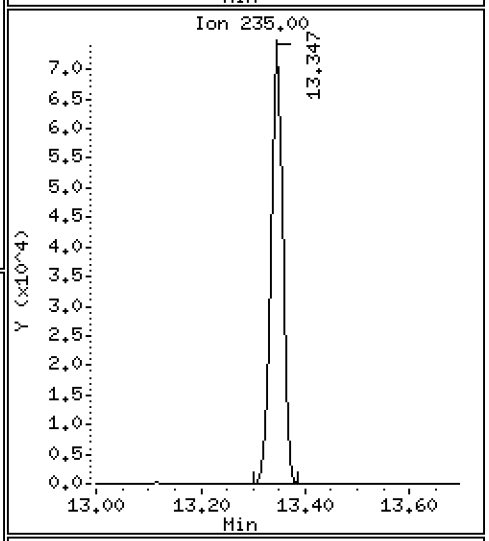


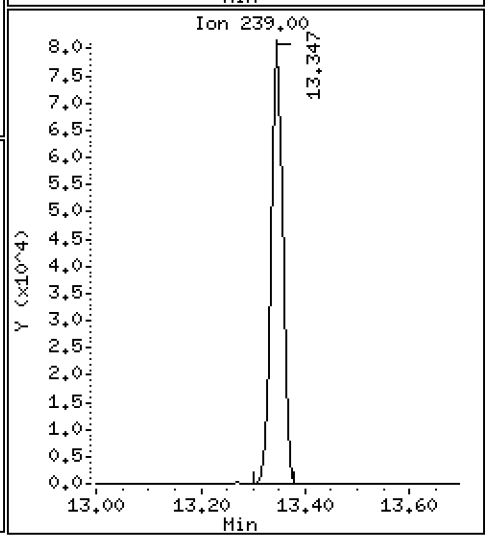












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

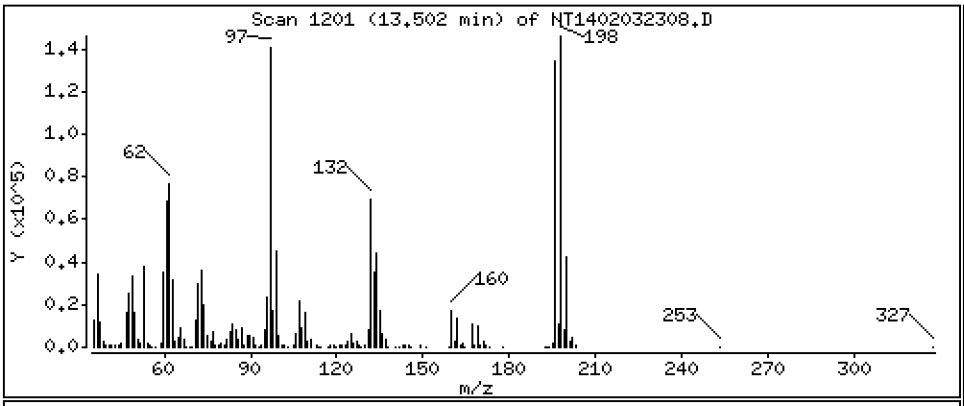
Operator: DSD

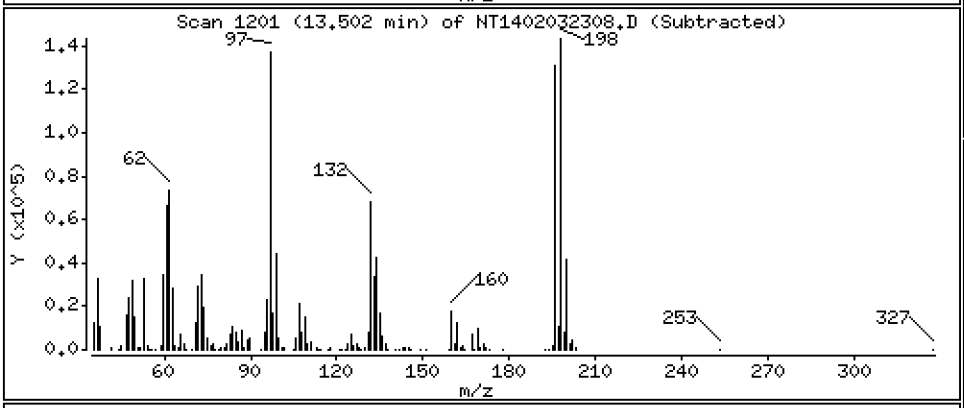
Column phase: ZB-5msi

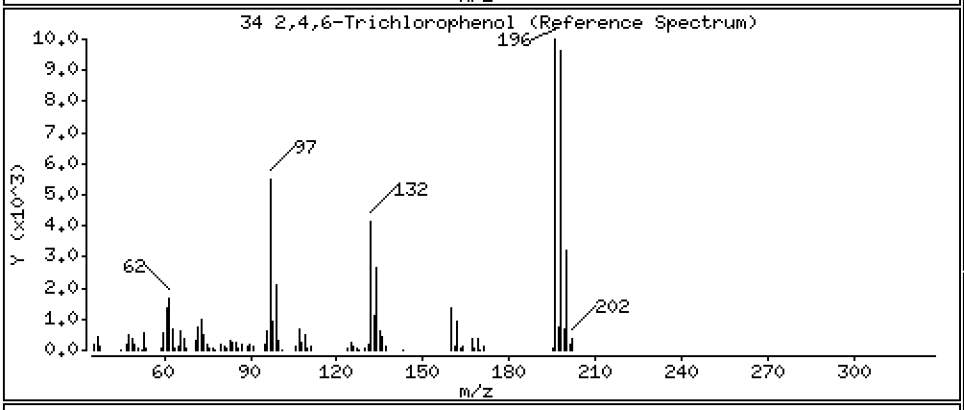
Column diameter: 0.25

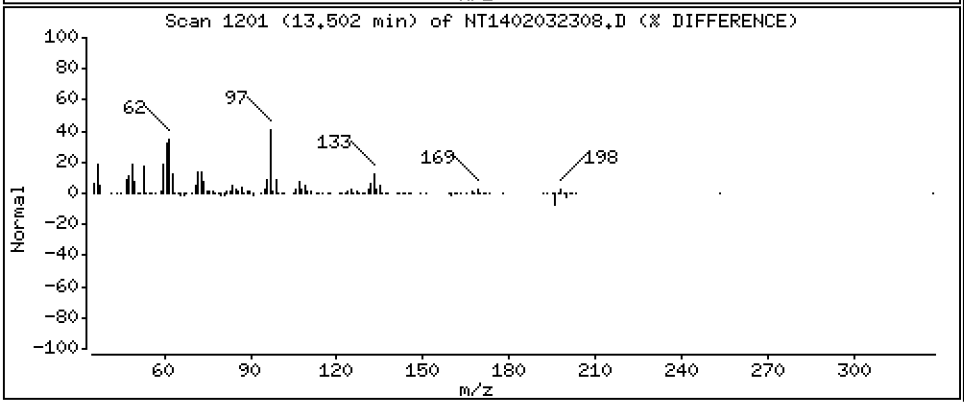
34 2,4,6-Trichlorophenol

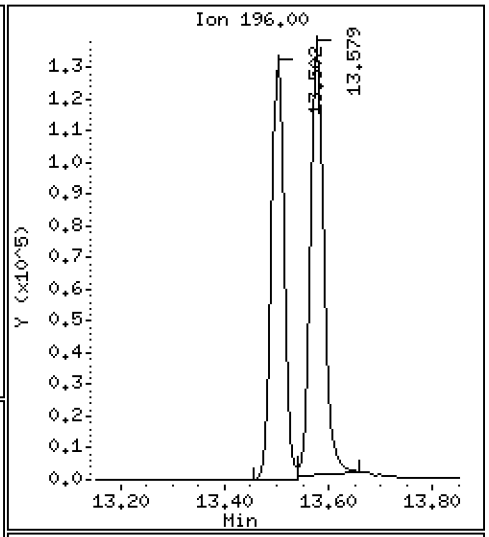
Concentration: 11.27 ug/mL

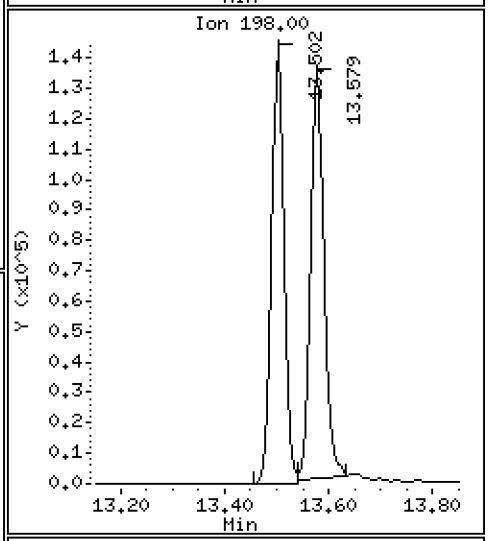


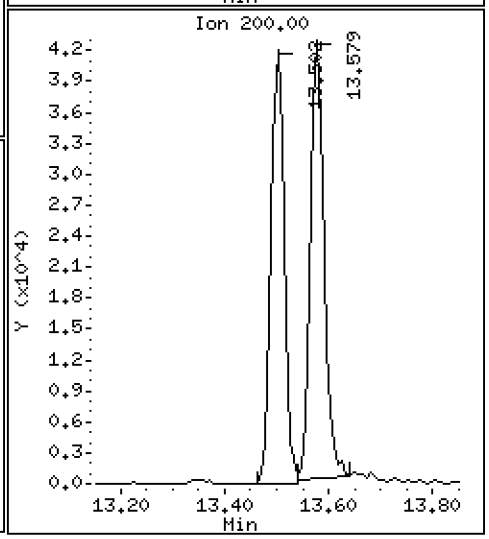












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

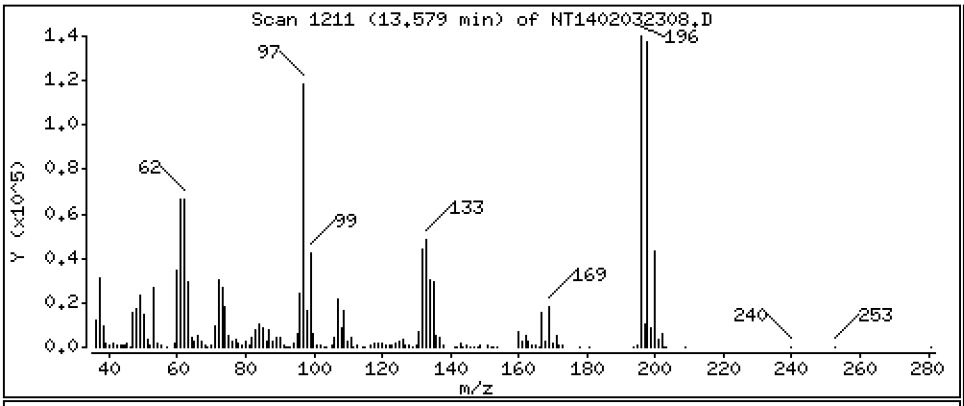
Operator: DSD

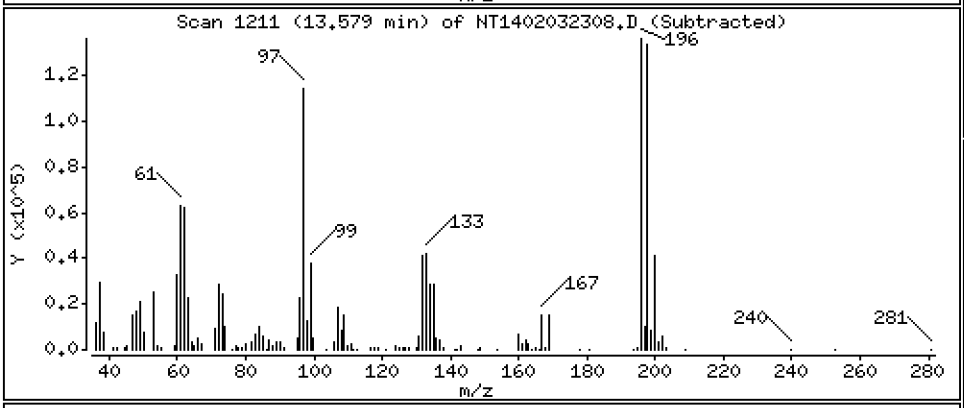
Column phase: ZB-5msi

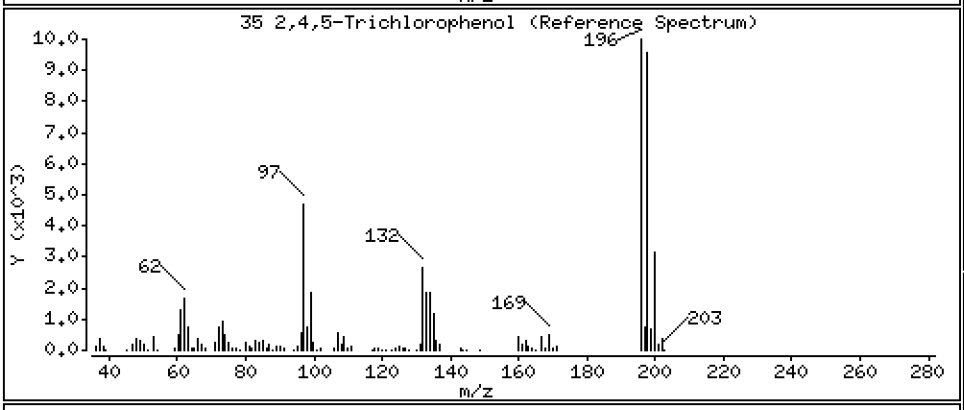
Column diameter: 0.25

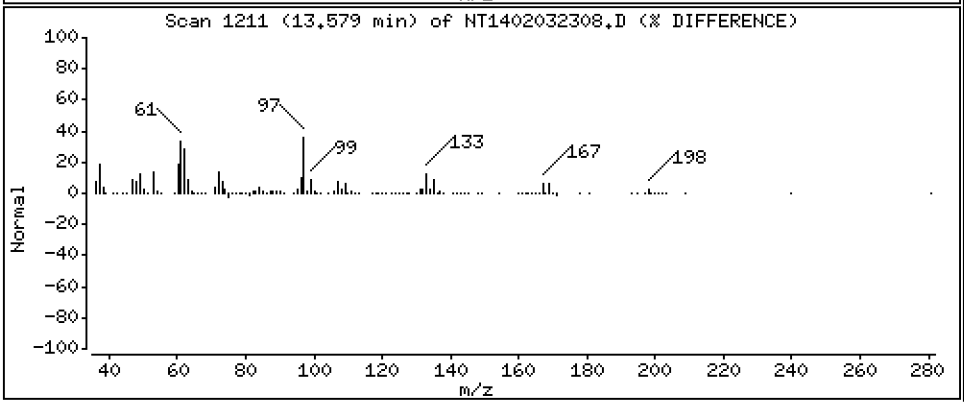
35 2,4,5-Trichlorophenol

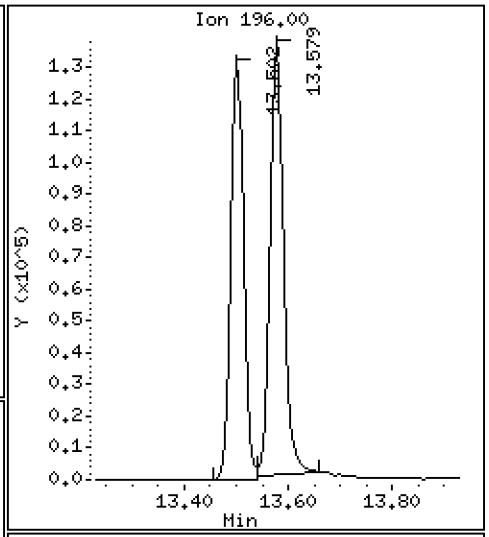
Concentration: 10.98 ug/mL

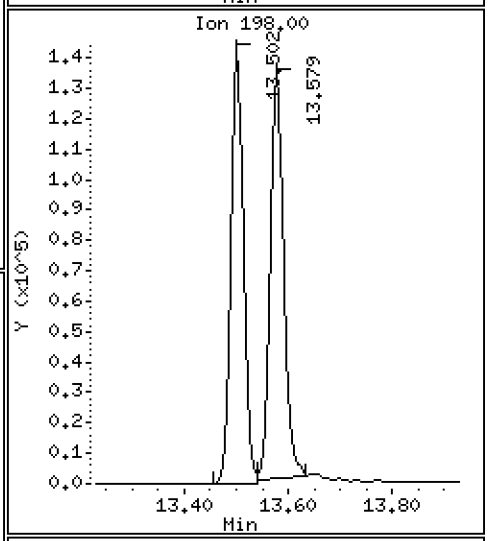


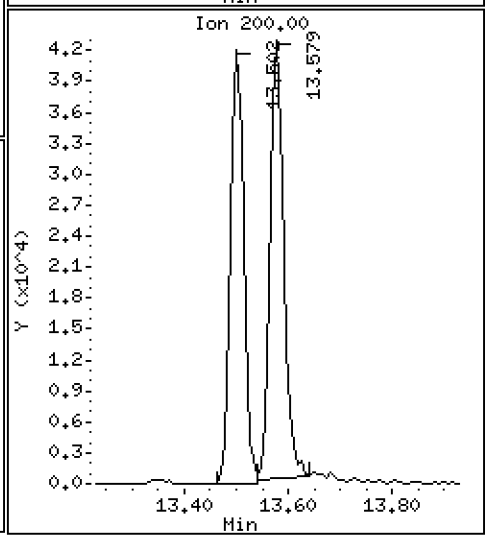












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

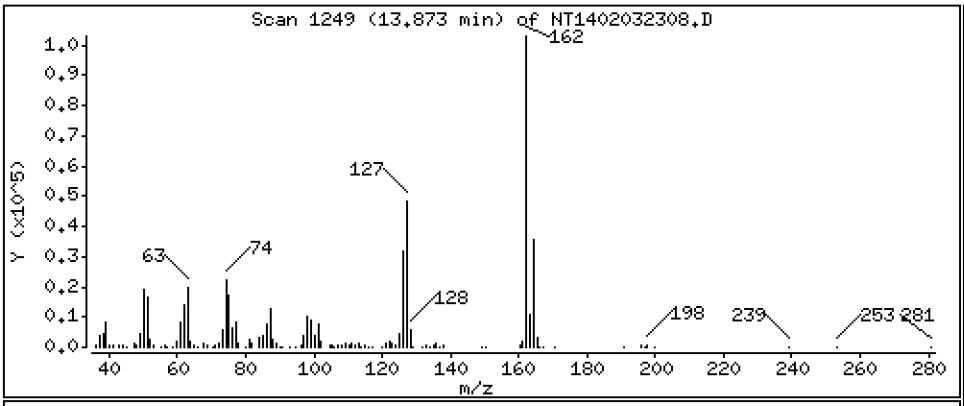
Operator: DSD

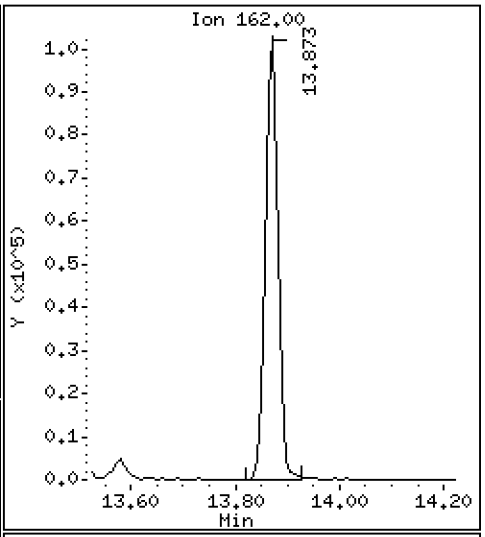
Column phase: ZB-5msi

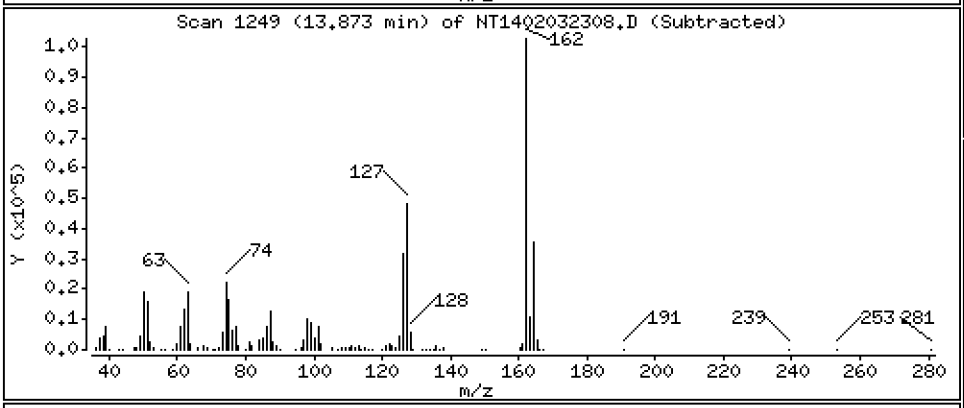
Column diameter: 0.25

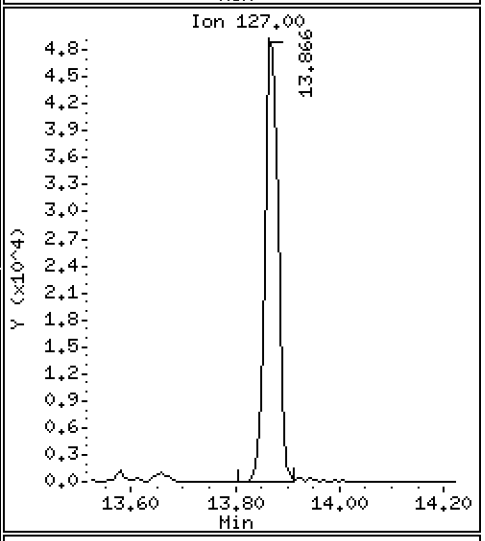
37 2-Chloronaphthalene

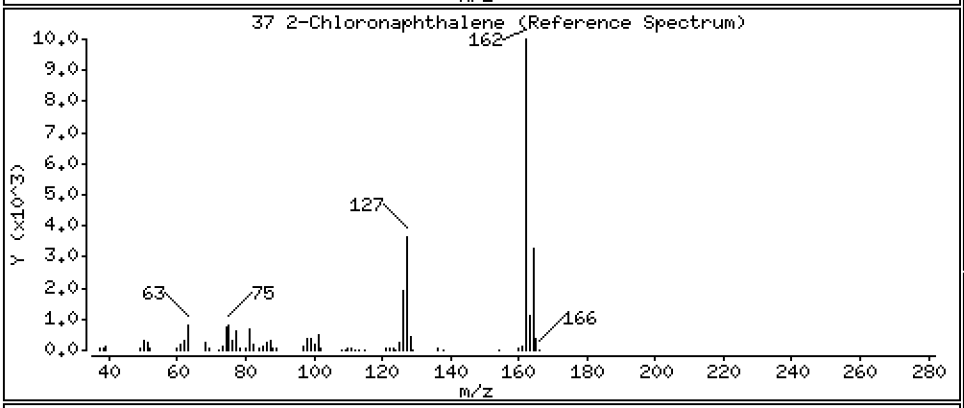
Concentration: 3.727 ug/mL

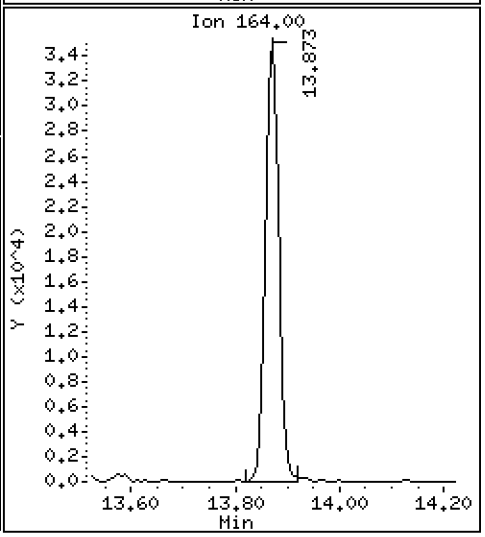


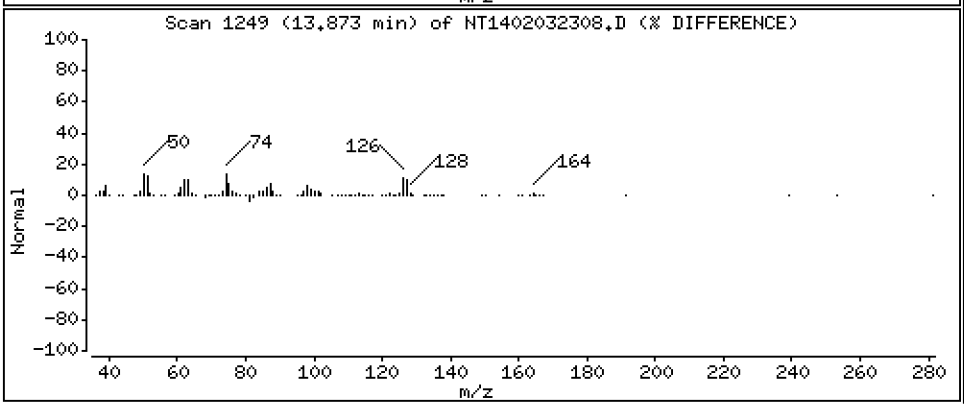












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

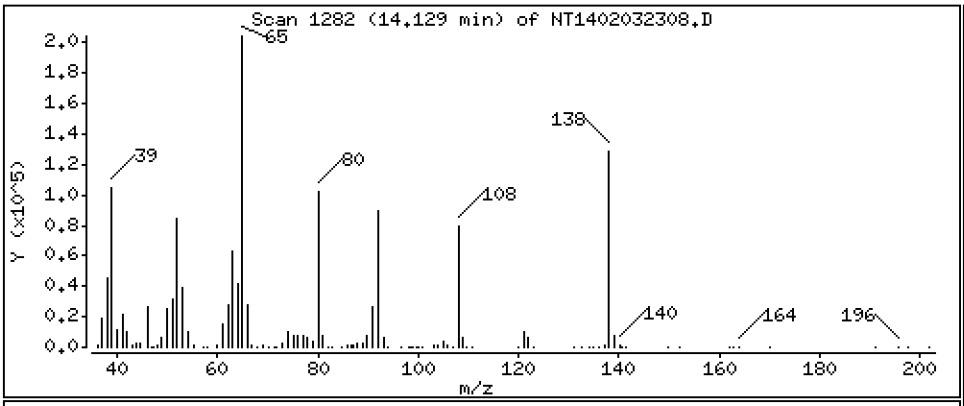
Operator: DSD

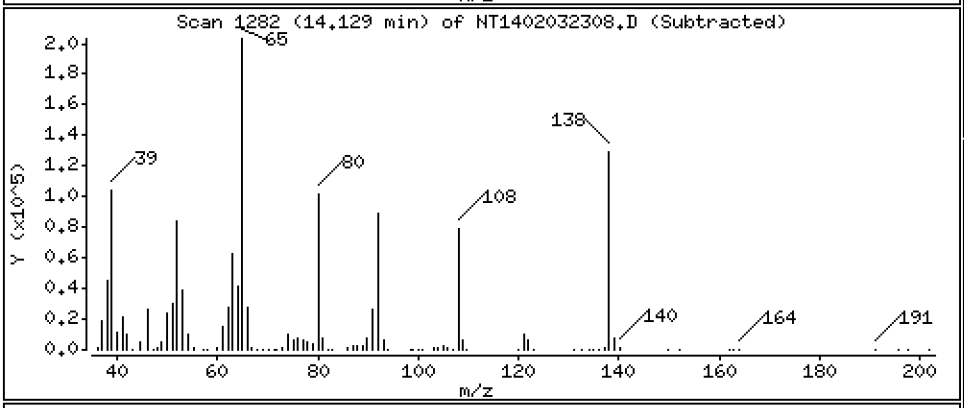
Column phase: ZB-5msi

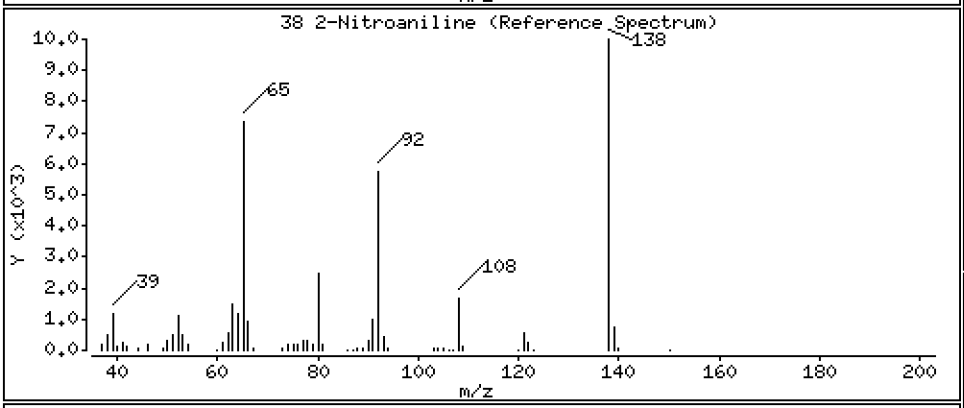
Column diameter: 0.25

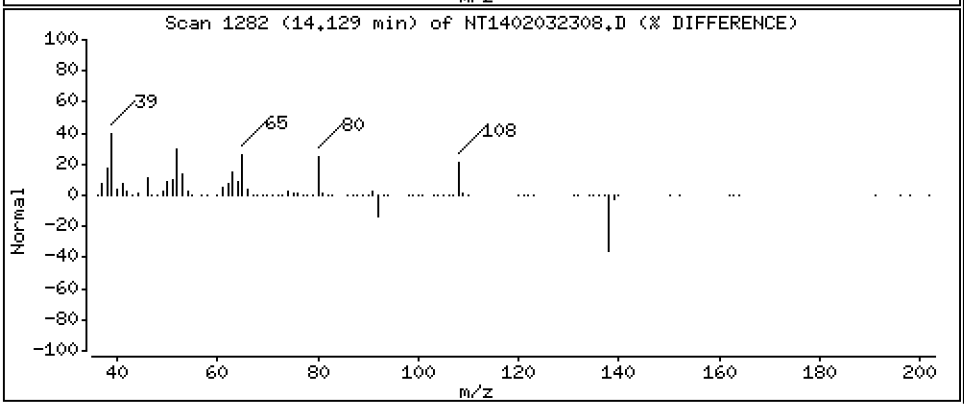
38 2-Nitroaniline

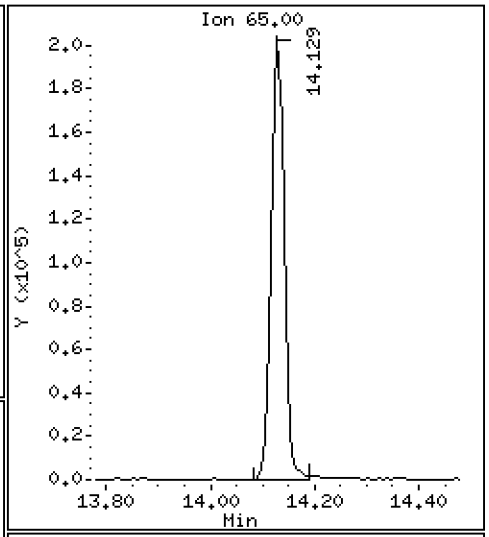
Concentration: 12.90 ug/mL

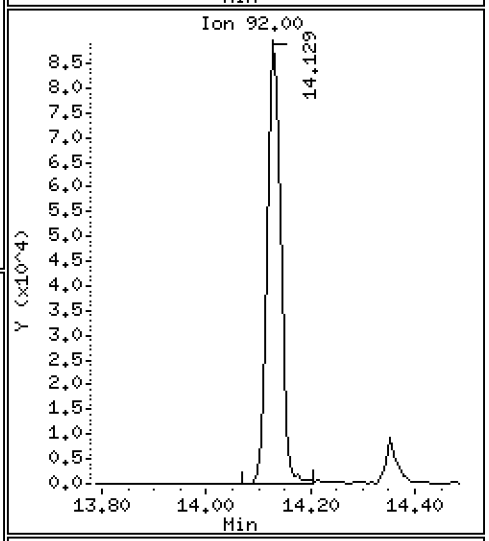


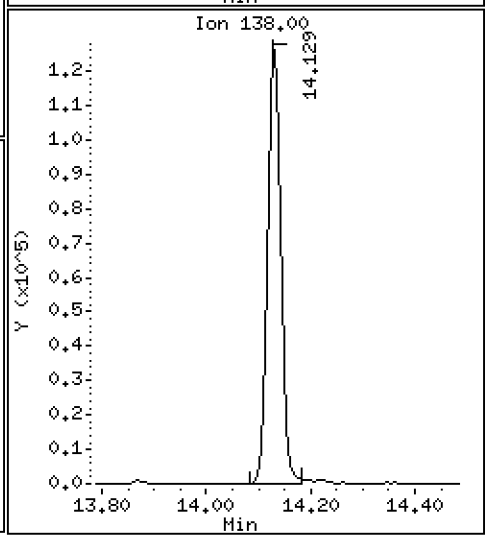












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

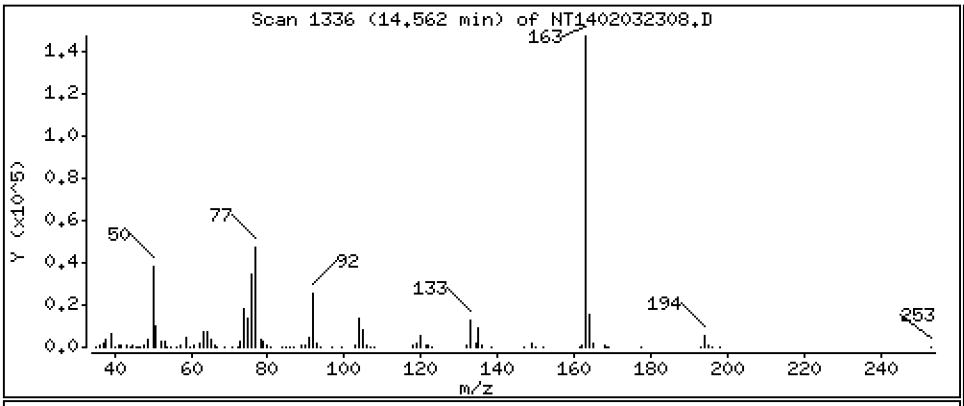
Operator: DSD

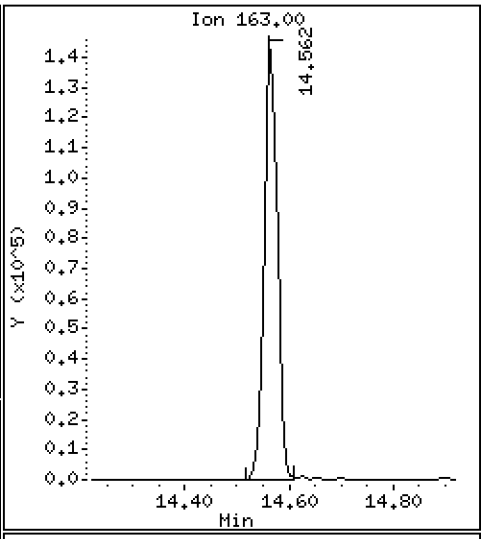
Column phase: ZB-5msi

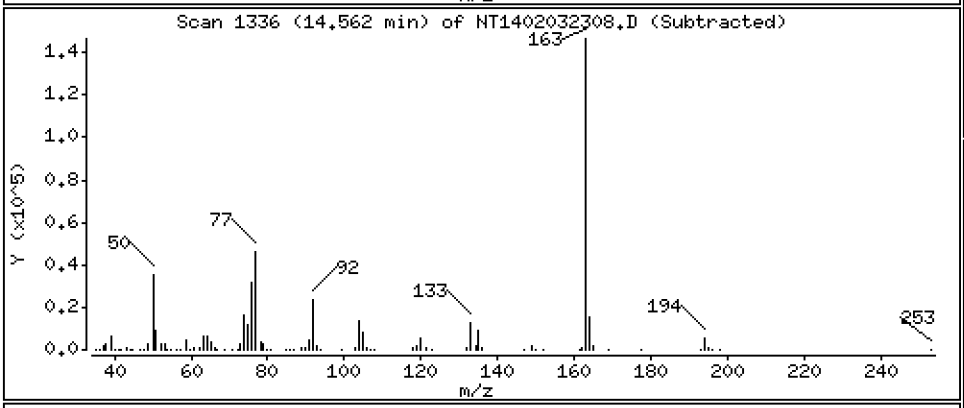
Column diameter: 0.25

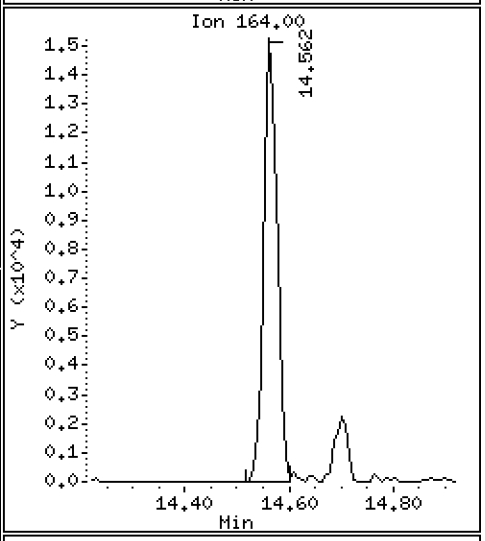
39 Dimethylphthalate

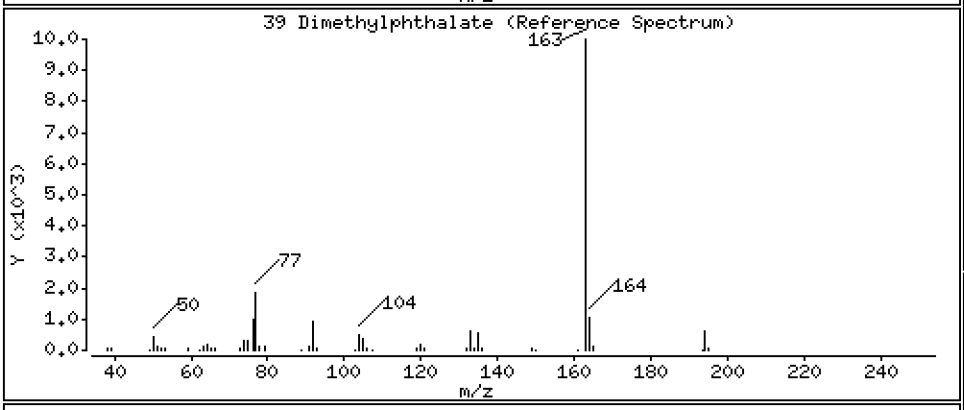
Concentration: 4.263 ug/mL

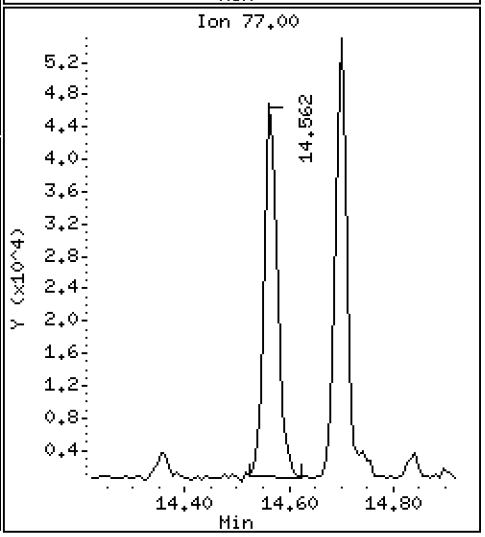


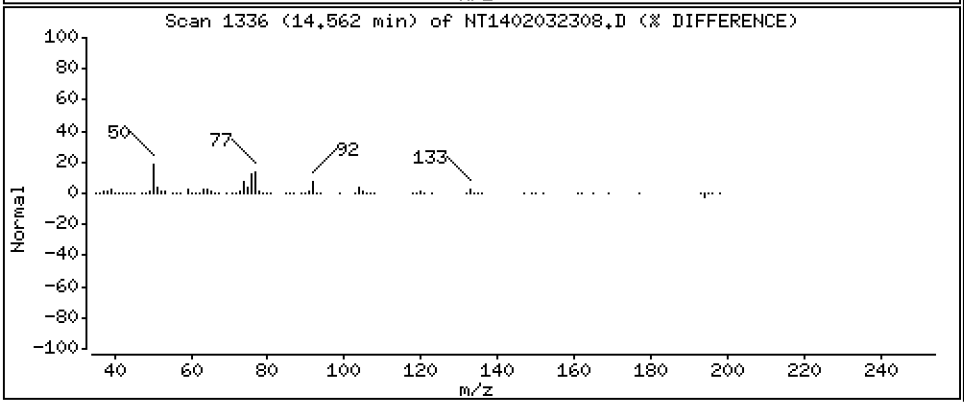












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

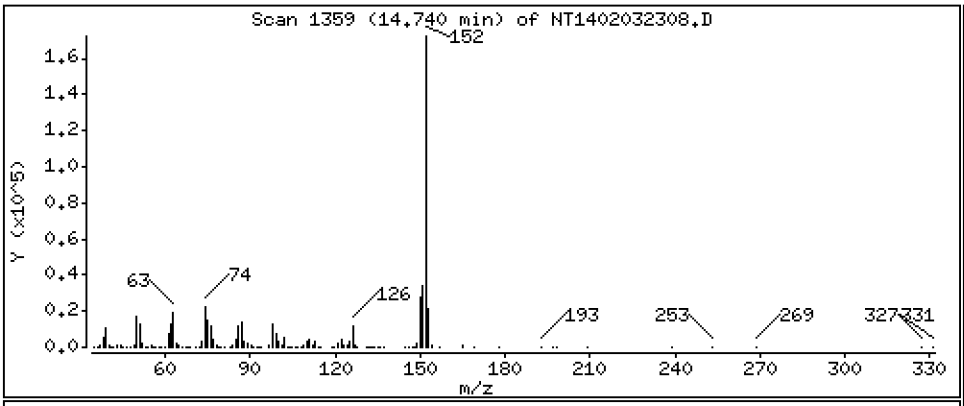
Operator: DSD

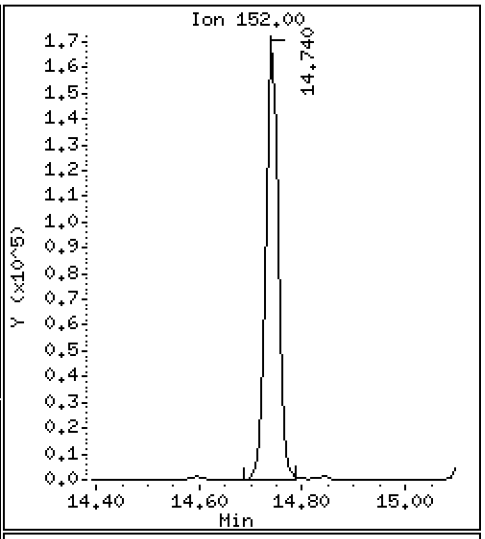
Column phase: ZB-5msi

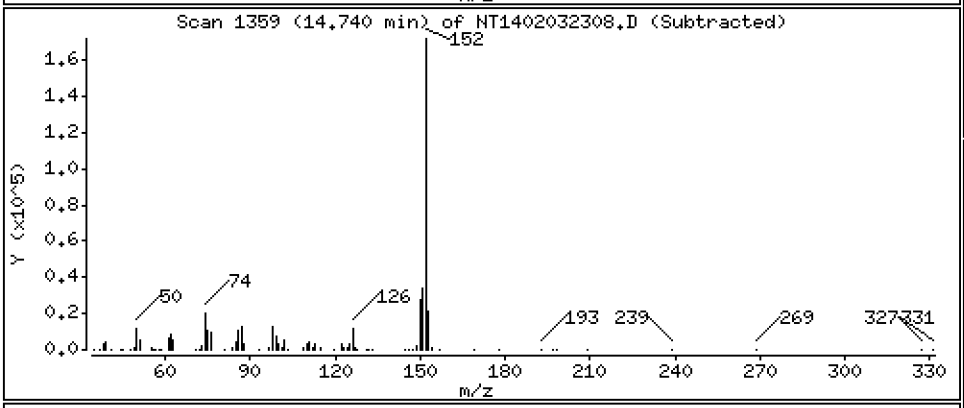
Column diameter: 0.25

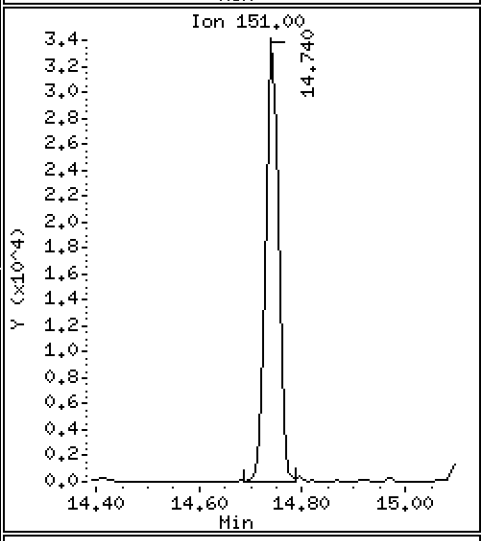
40 Acenaphthylene

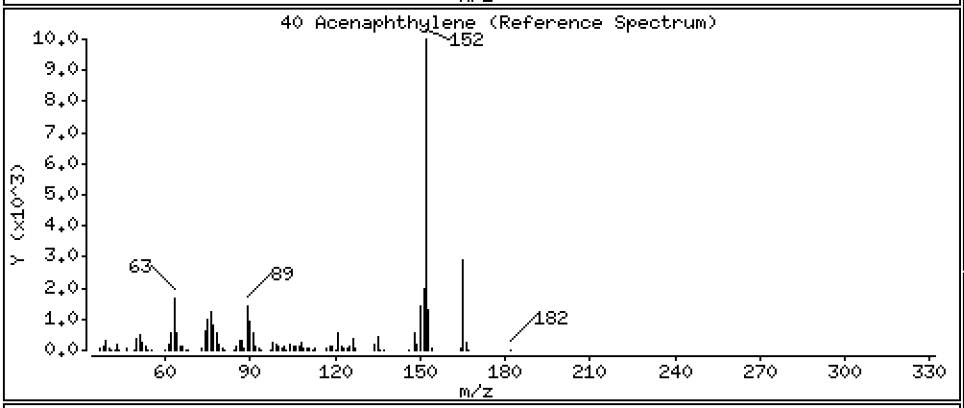
Concentration: 3.825 ug/mL

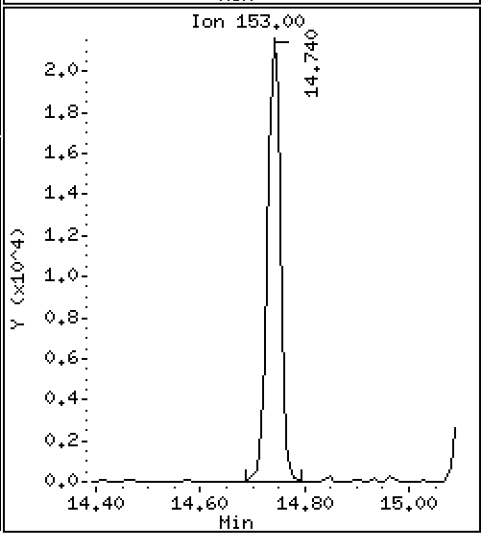


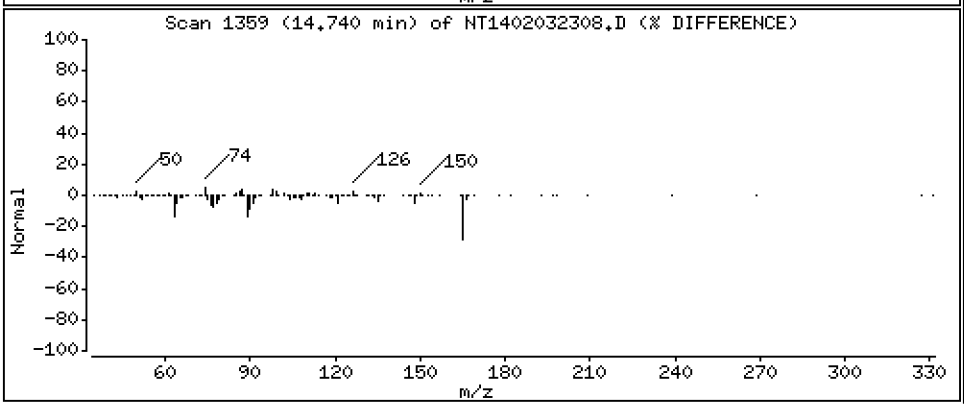












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

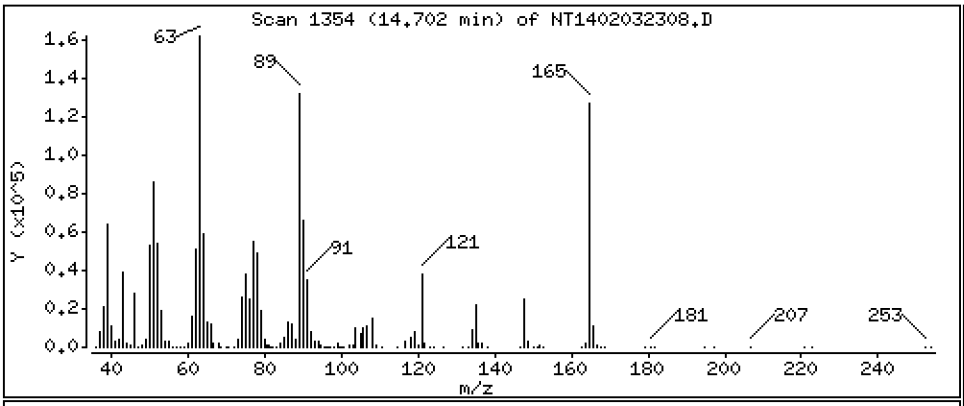
Operator: DSD

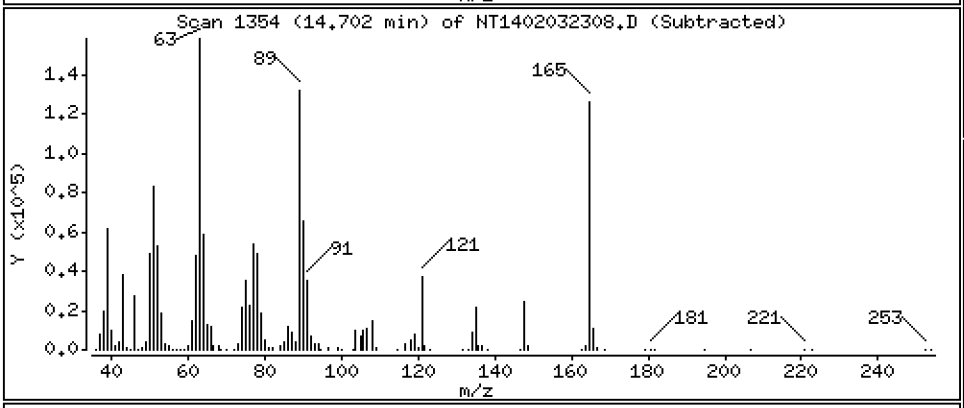
Column phase: ZB-5msi

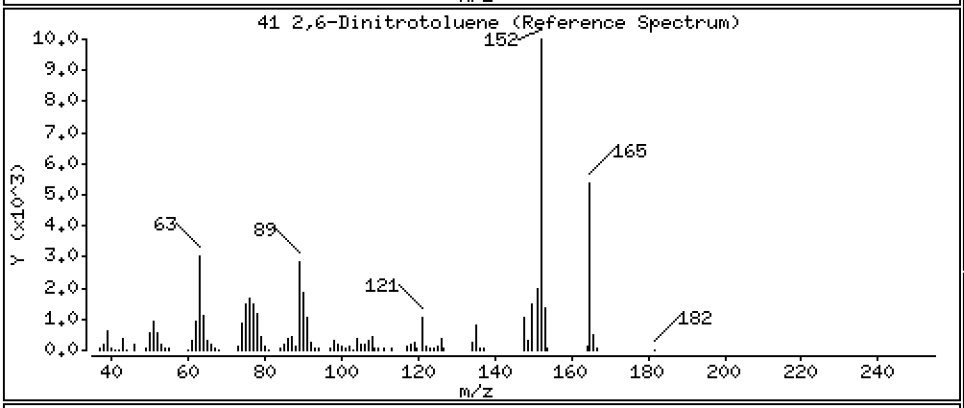
Column diameter: 0.25

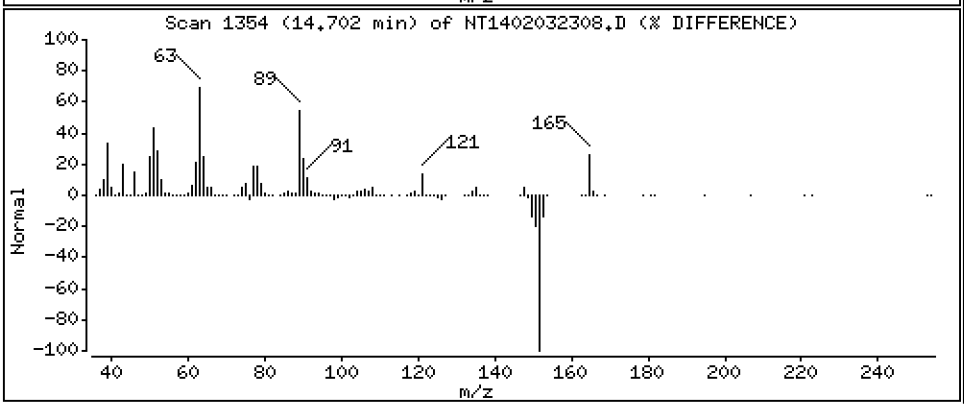
41 2,6-Dinitrotoluene

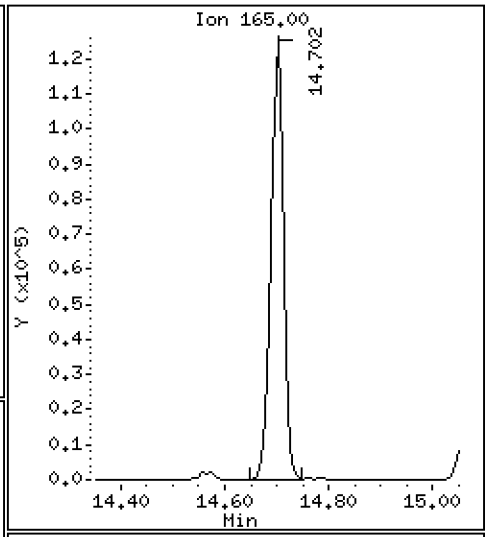
Concentration: 15.10 ug/mL

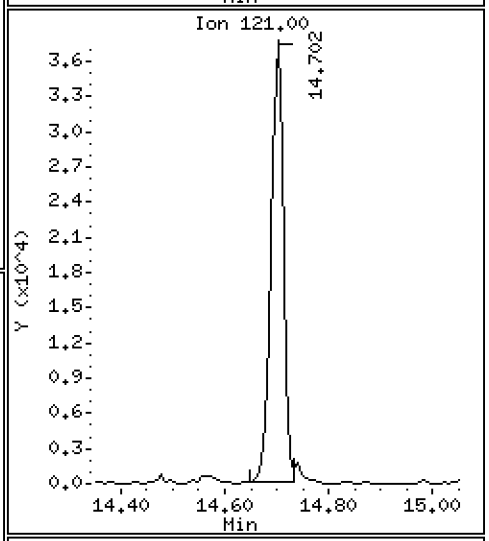


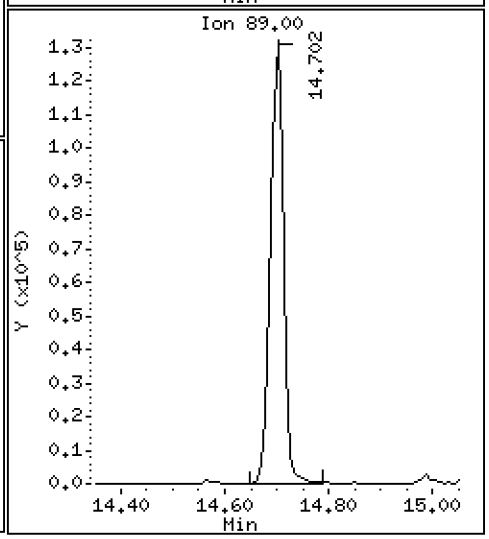












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

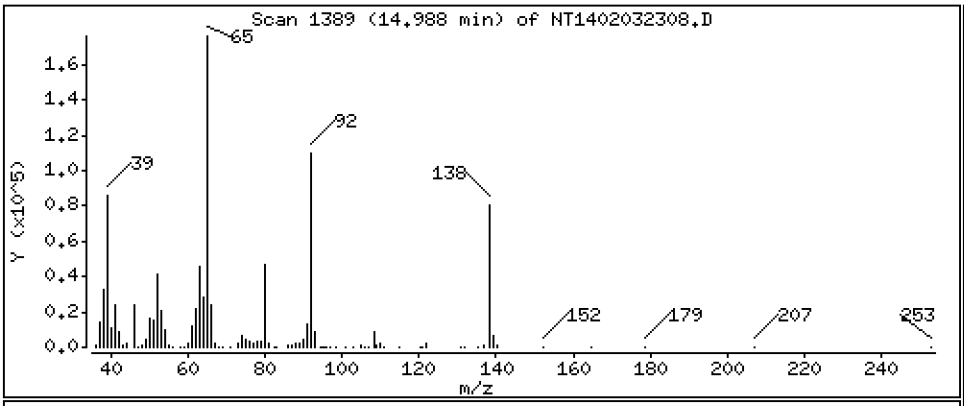
Operator: DSD

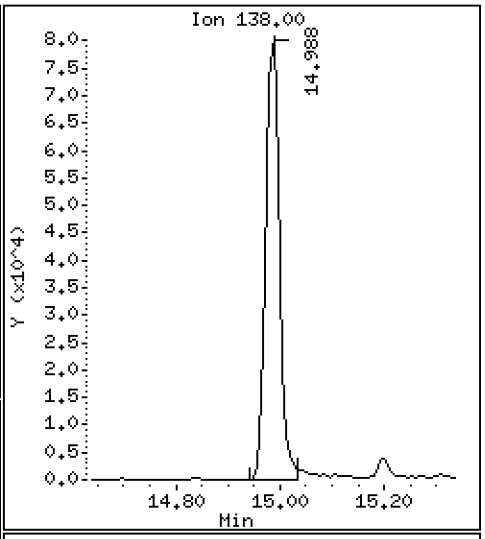
Column phase: ZB-5msi

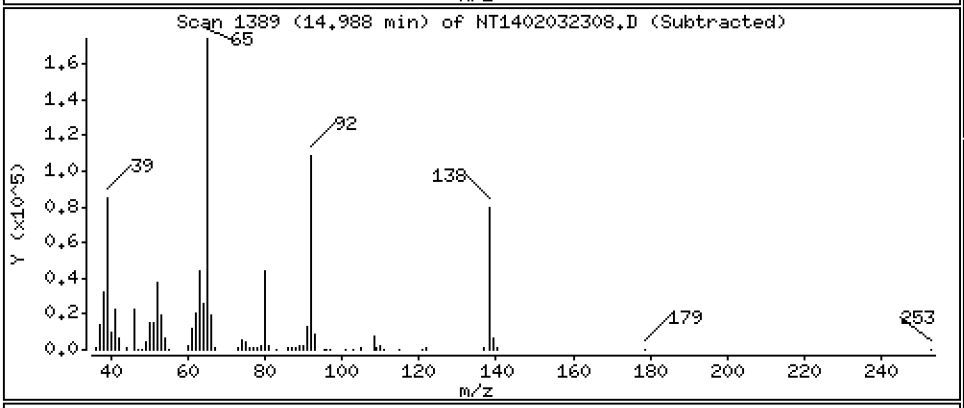
Column diameter: 0.25

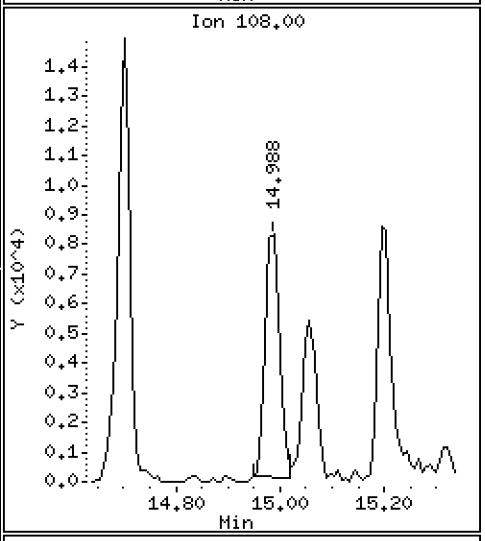
43 3-Nitroaniline

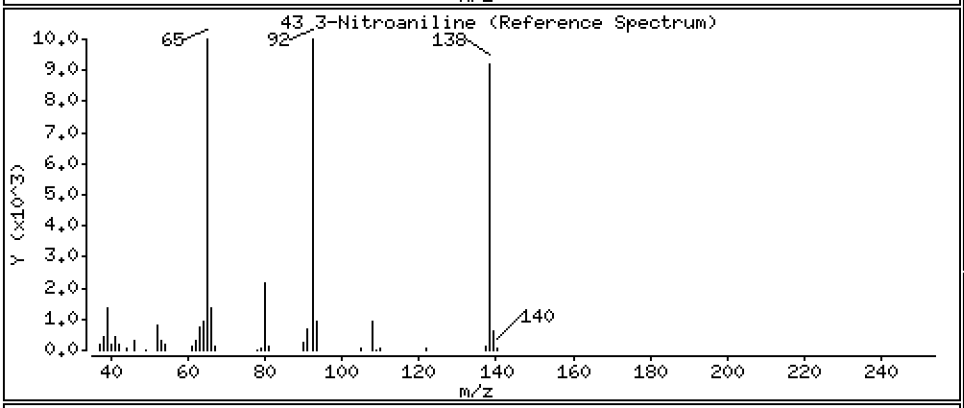
Concentration: 11.12 ug/mL

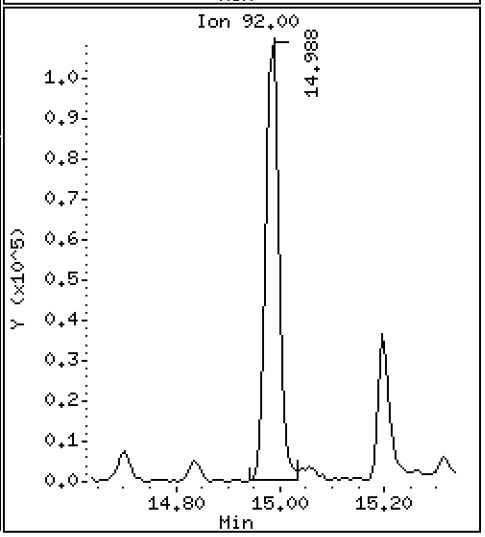


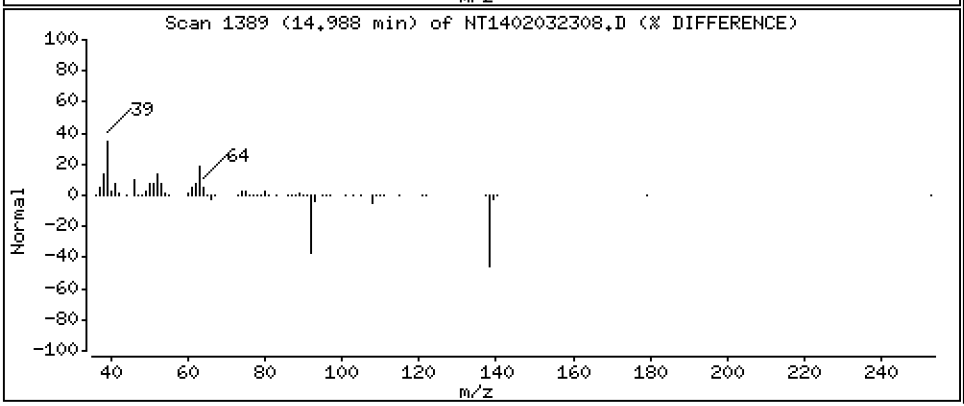












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

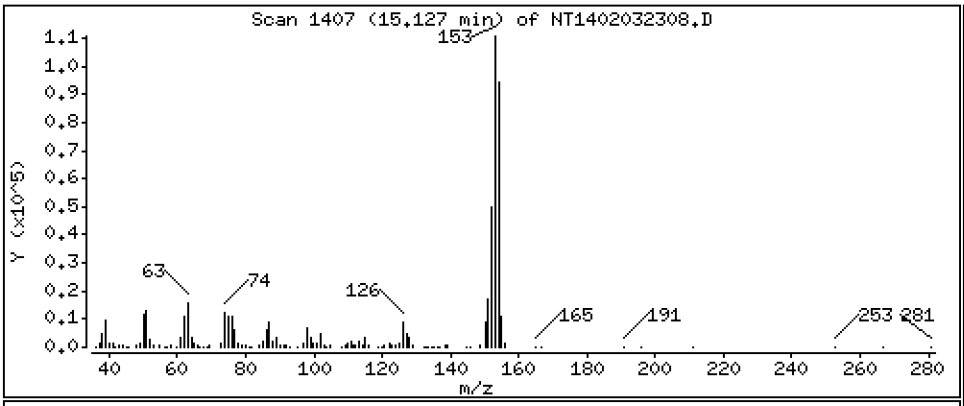
Operator: DSD

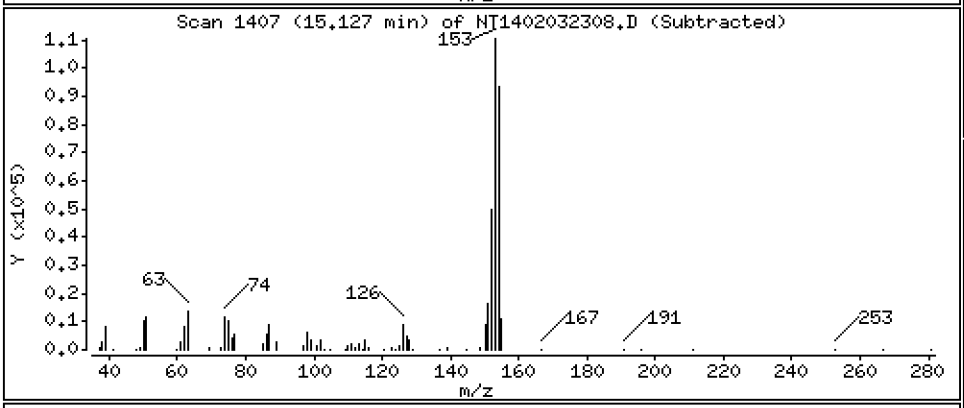
Column phase: ZB-5msi

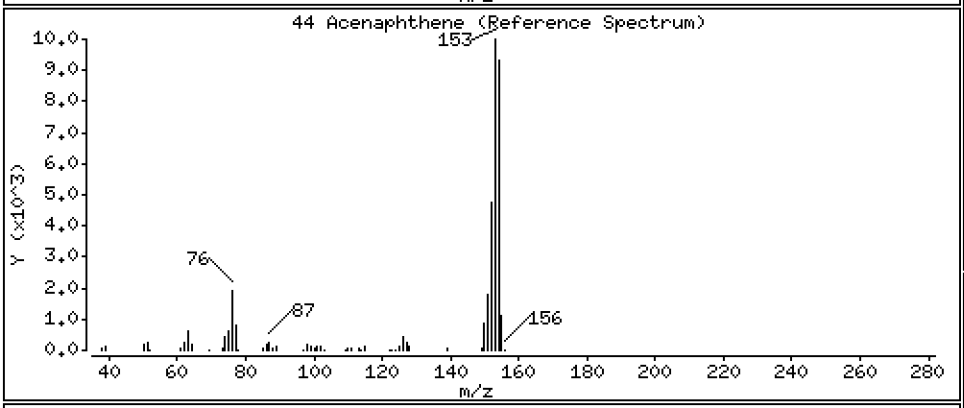
Column diameter: 0.25

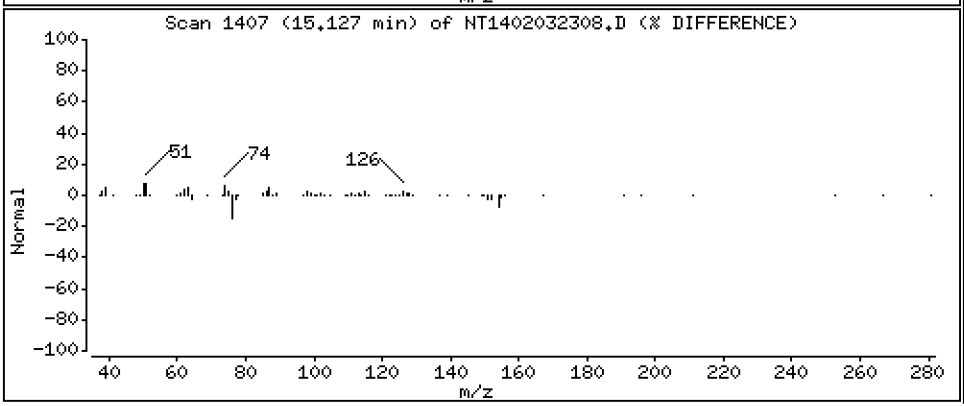
44 Acenaphthene

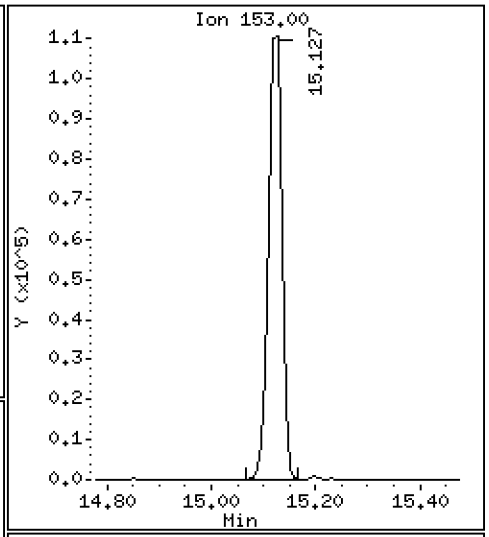
Concentration: 4.058 ug/mL

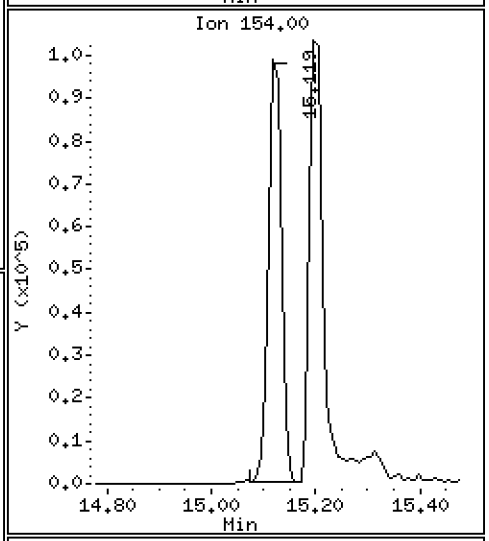


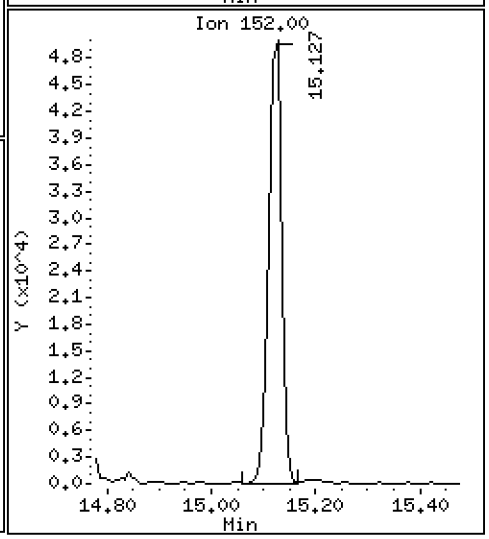












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

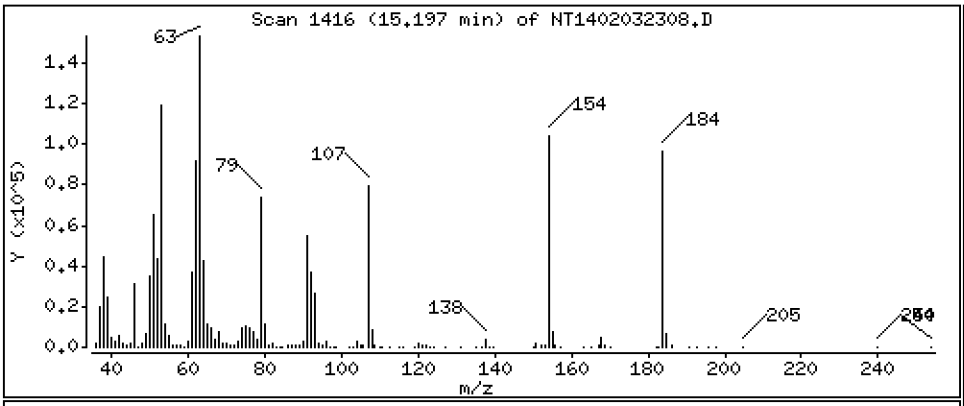
Operator: DSD

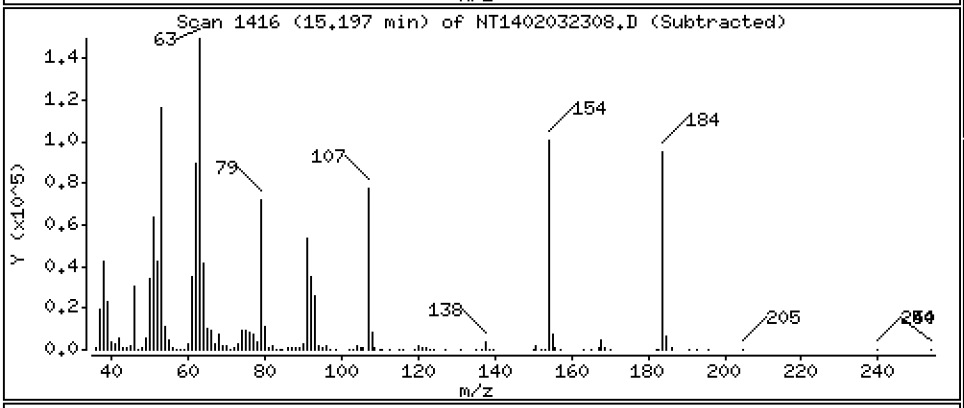
Column phase: ZB-5msi

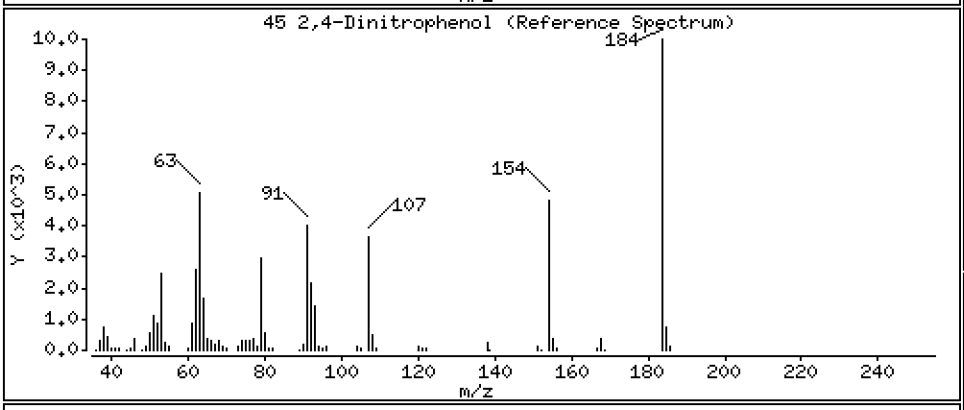
Column diameter: 0.25

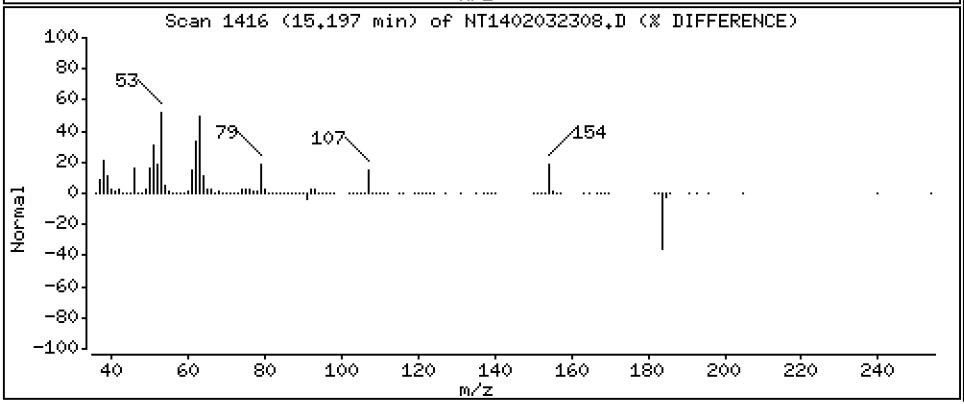
45 2,4-Dinitrophenol

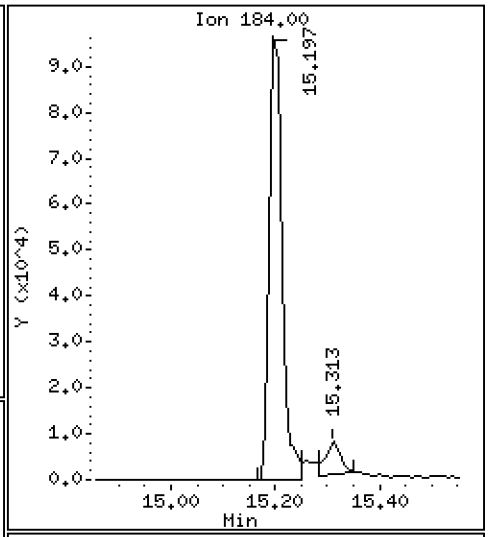
Concentration: 11.81 ug/mL

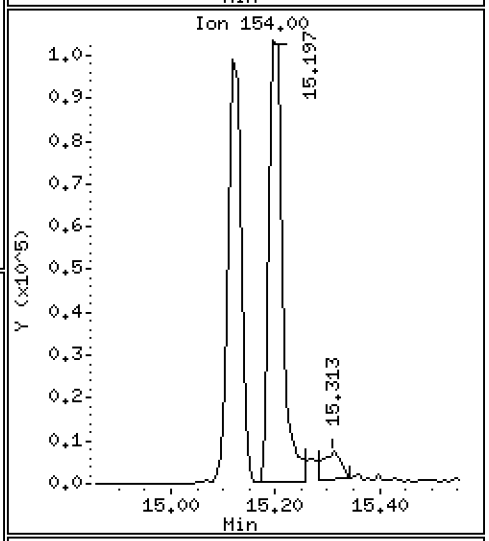


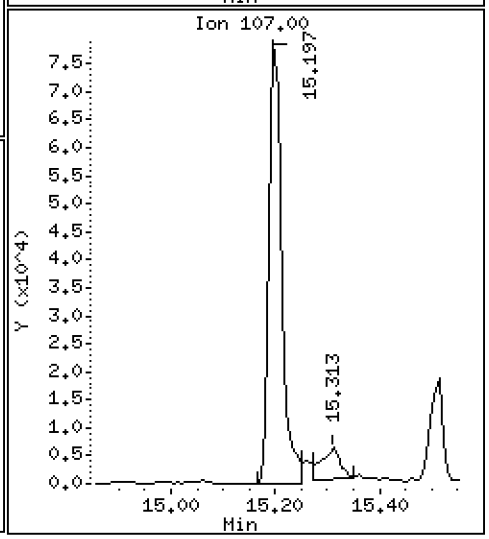












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

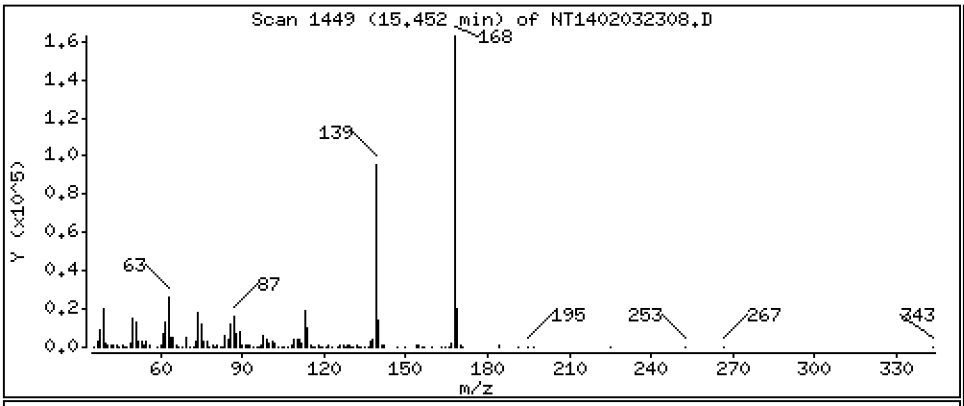
Operator: DSD

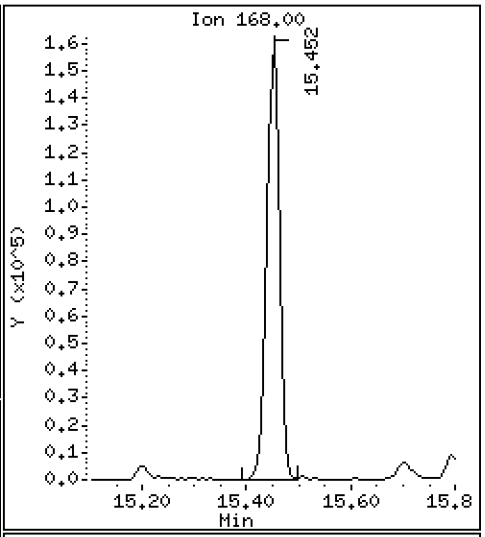
Column phase: ZB-5msi

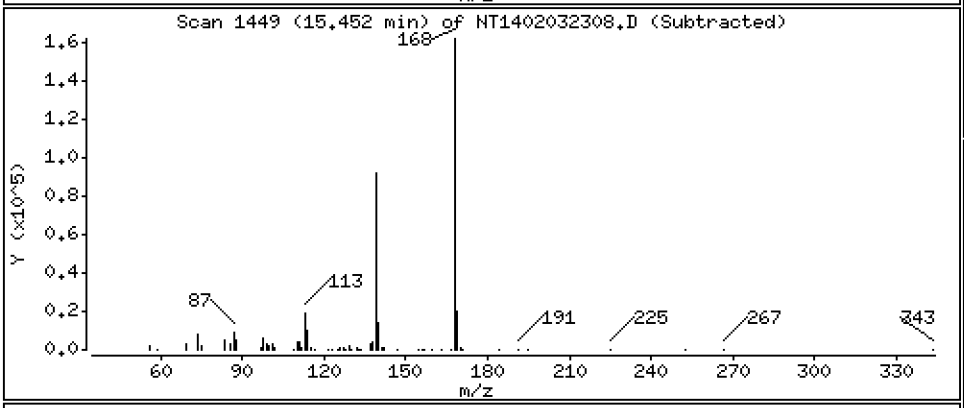
Column diameter: 0.25

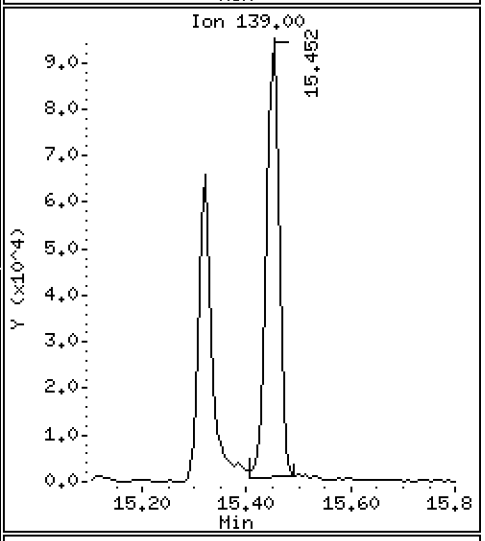
46 Dibenzofuran

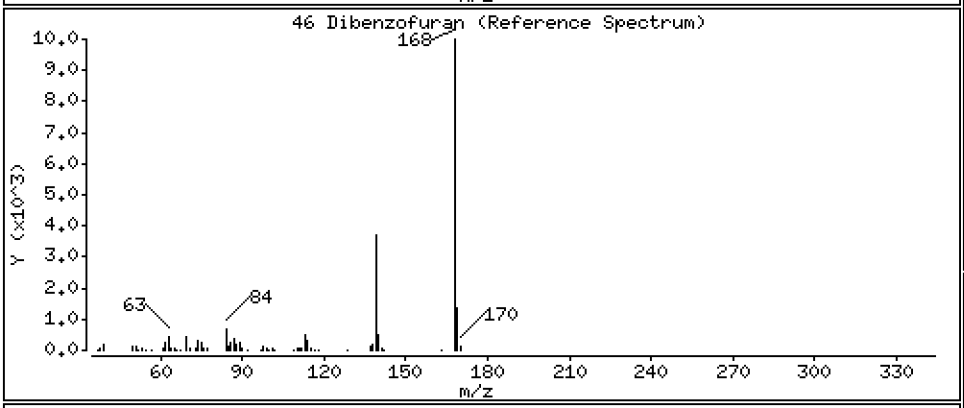
Concentration: 3.811 ug/mL

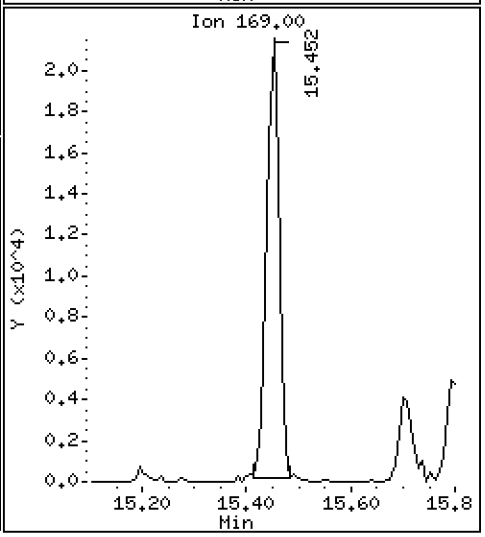


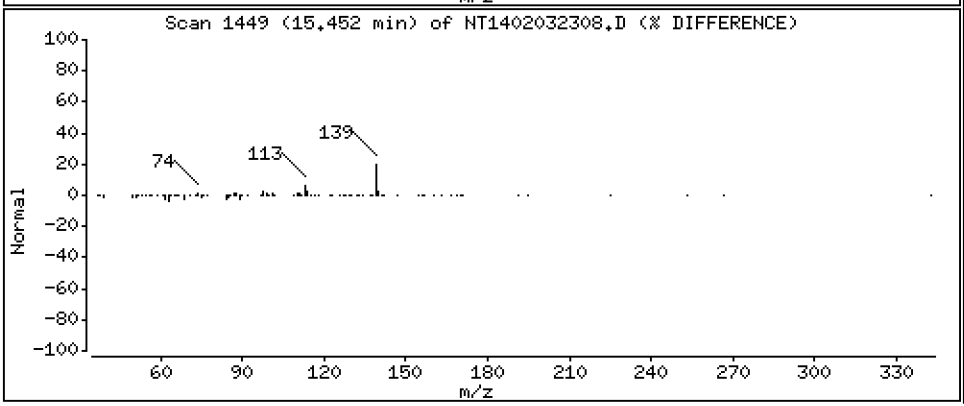












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

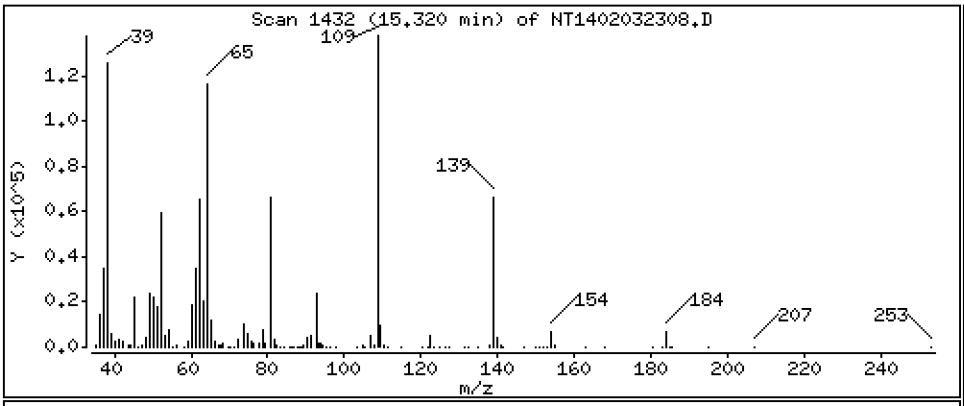
Operator: DSD

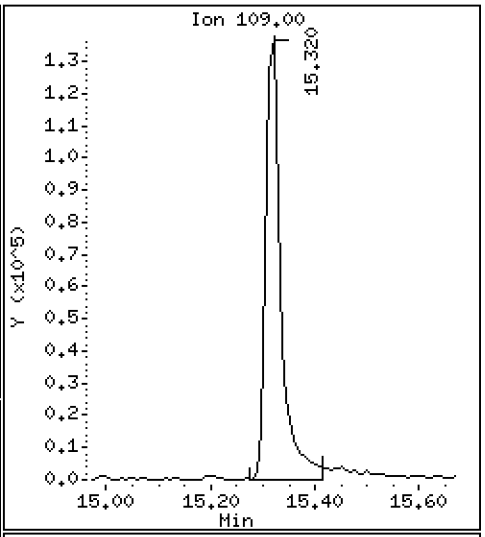
Column phase: ZB-5msi

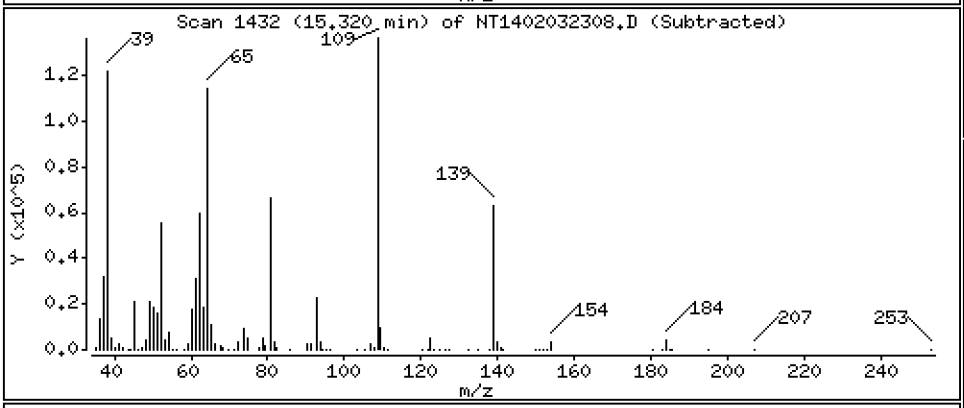
Column diameter: 0.25

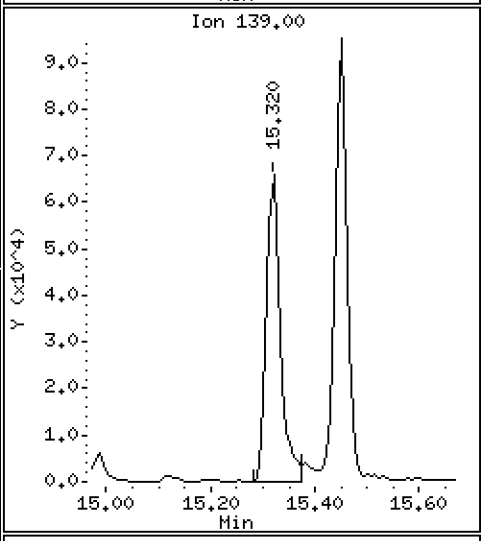
47 4-Nitrophenol

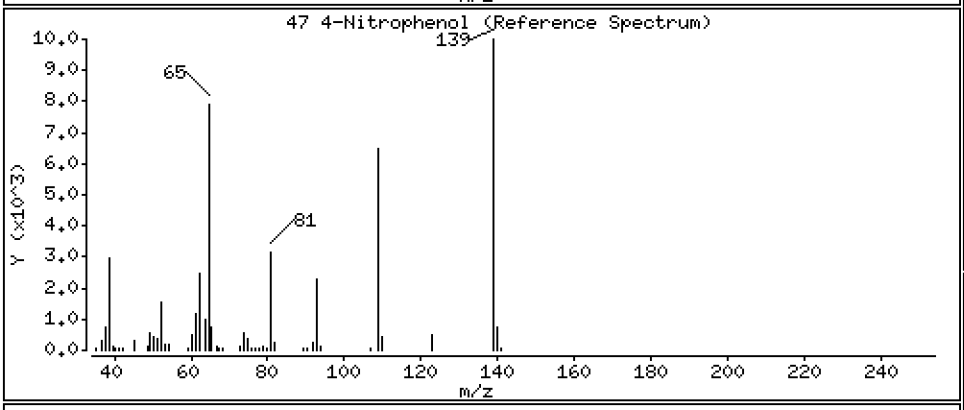
Concentration: 10.06 ug/mL

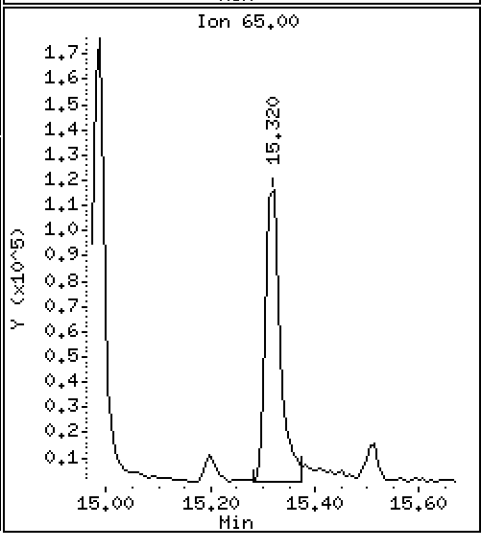


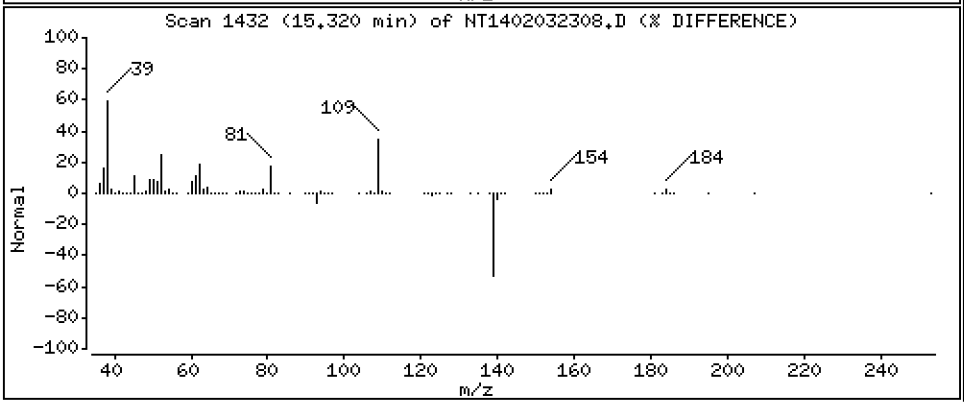












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

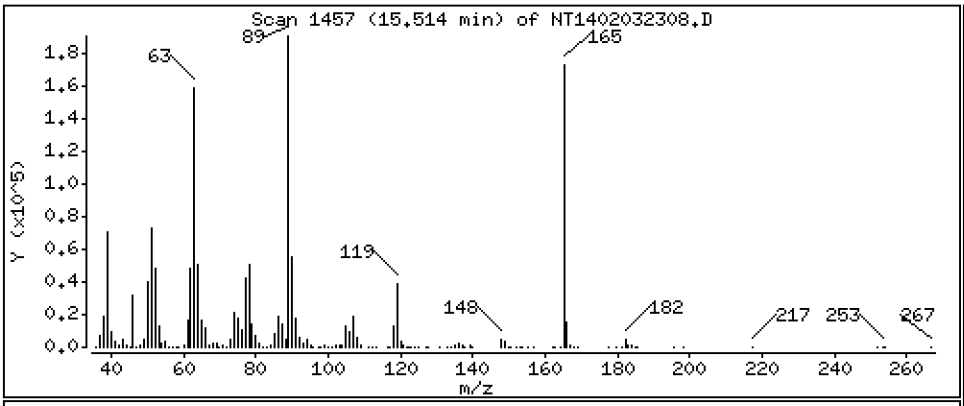
Operator: DSD

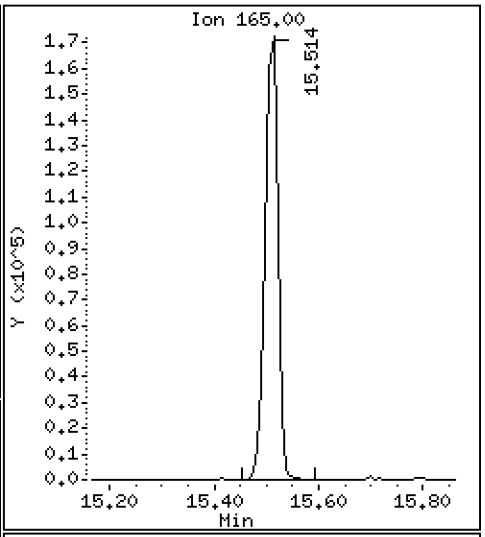
Column phase: ZB-5msi

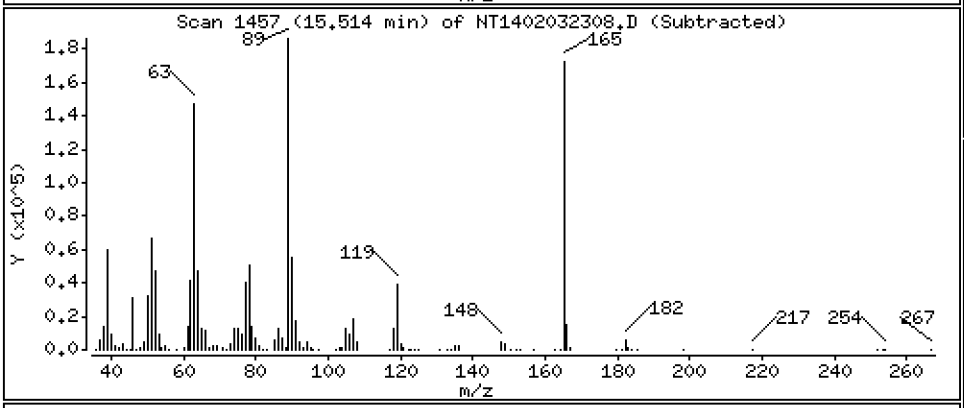
Column diameter: 0.25

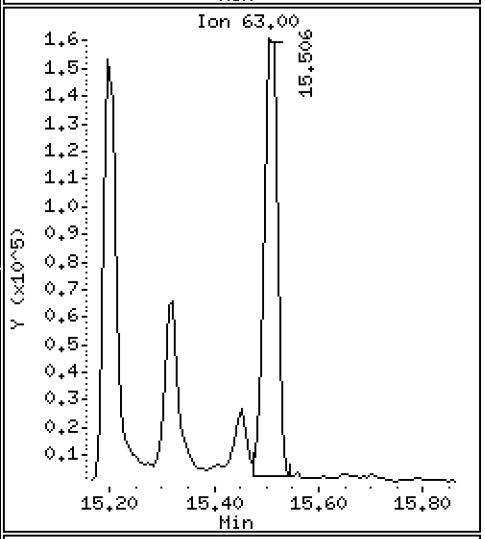
48 2,4-Dinitrotoluene

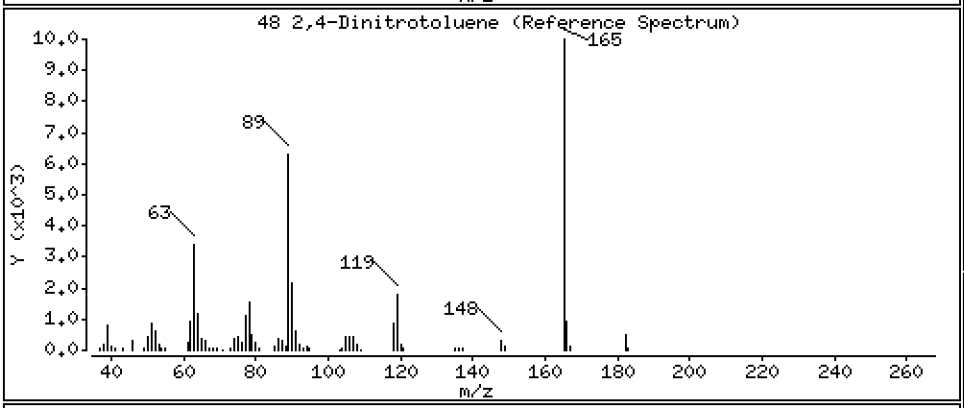
Concentration: 15.44 ug/mL

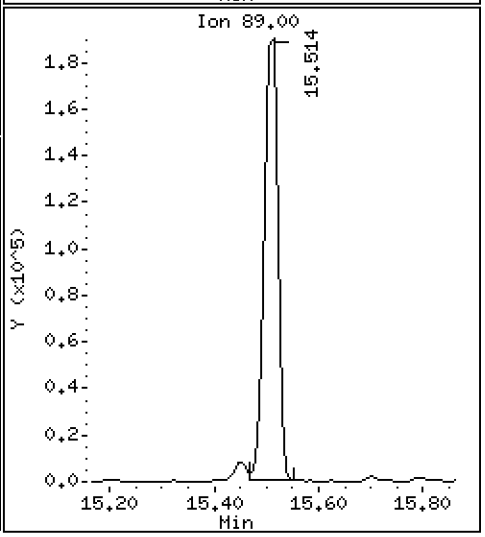


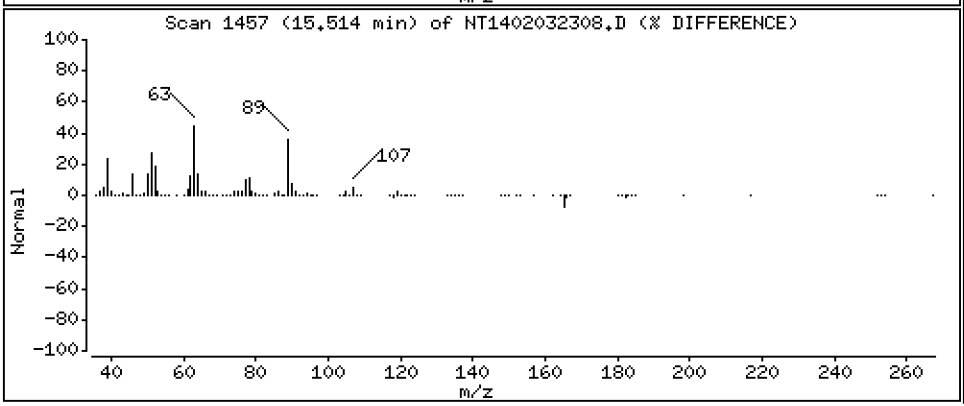












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

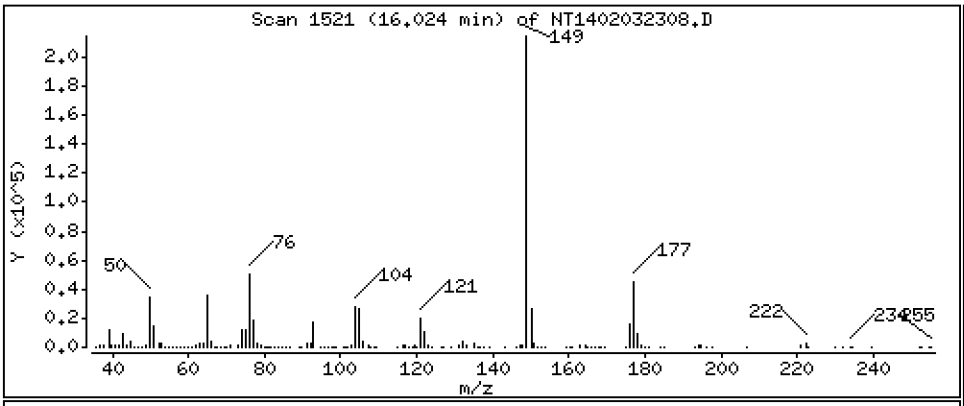
Operator: DSD

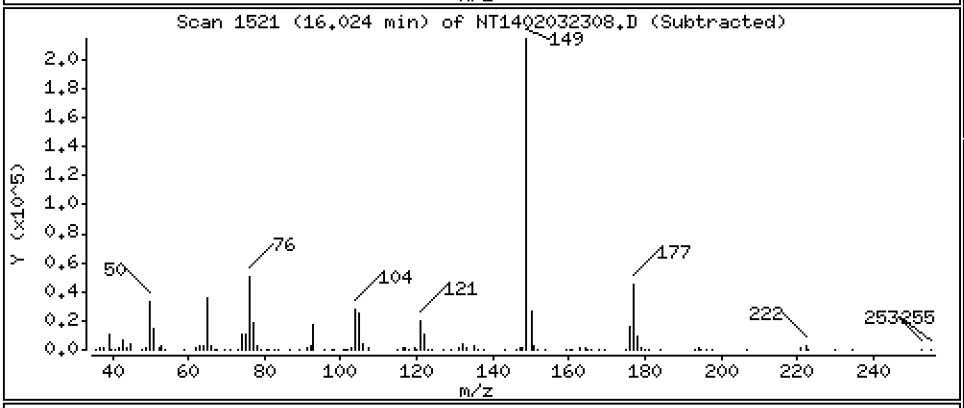
Column phase: ZB-5msi

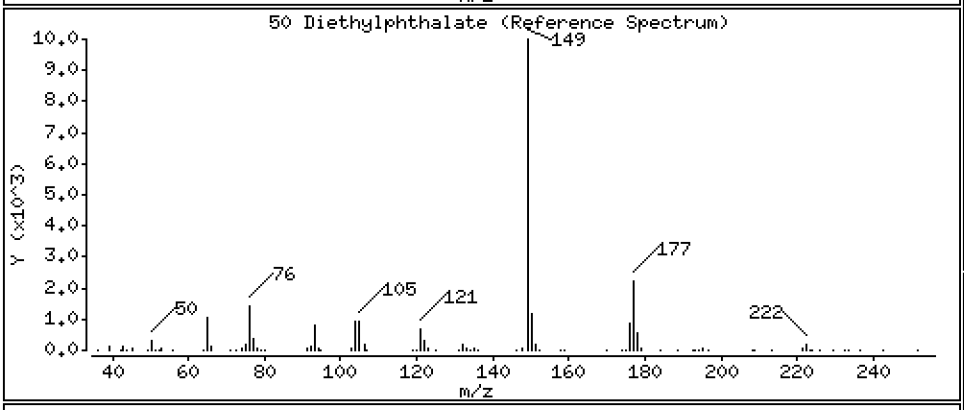
Column diameter: 0.25

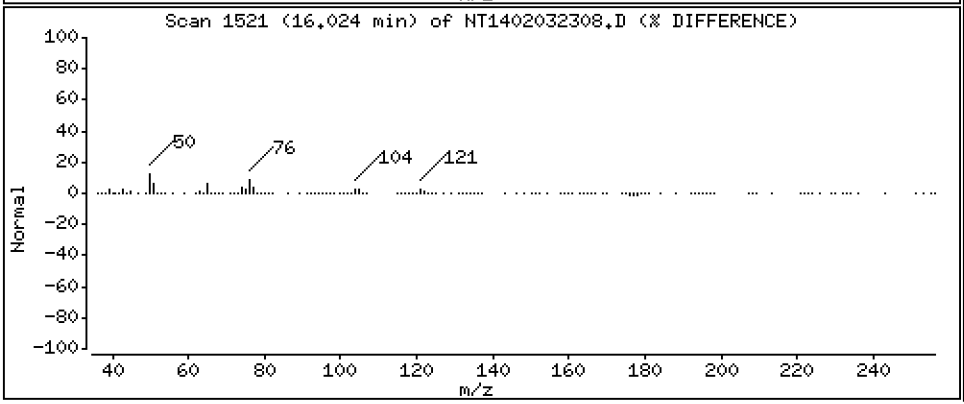
50 Diethylphthalate

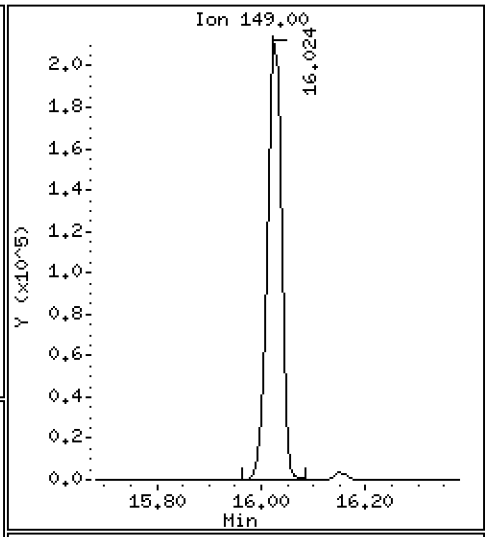
Concentration: 4.616 ug/mL

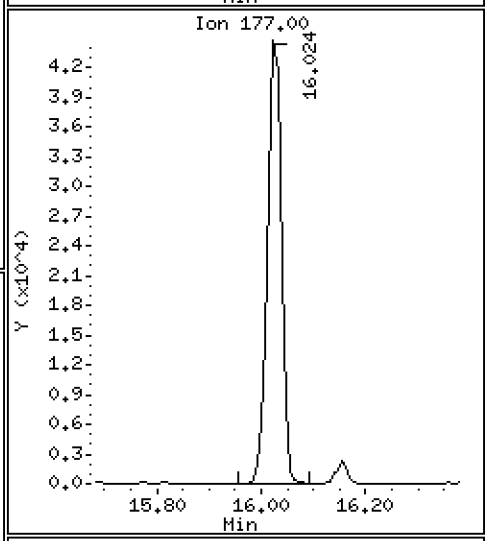


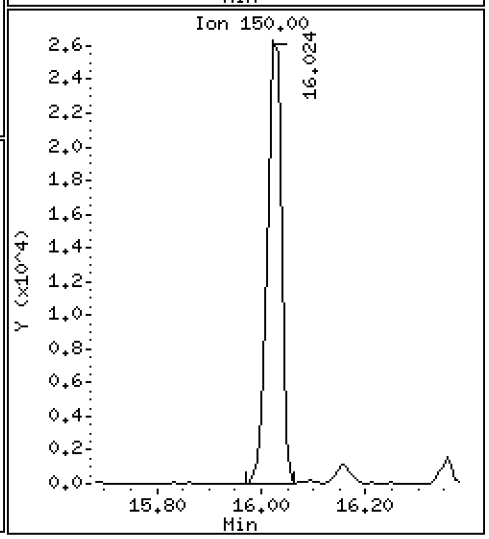












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

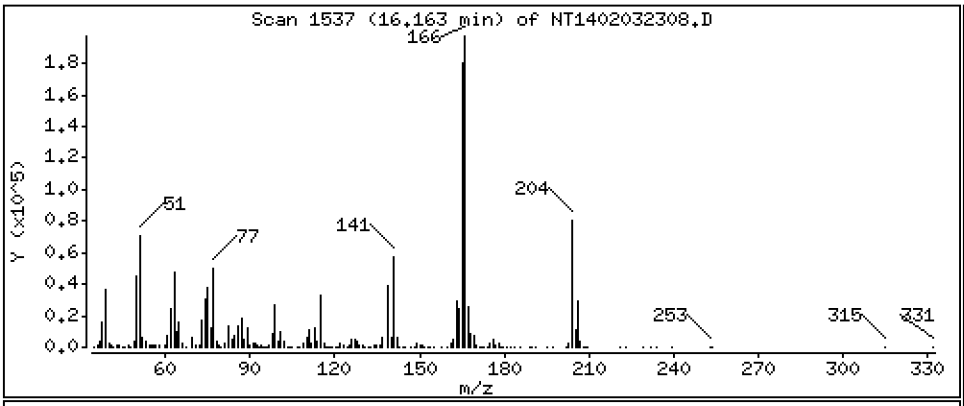
Operator: DSD

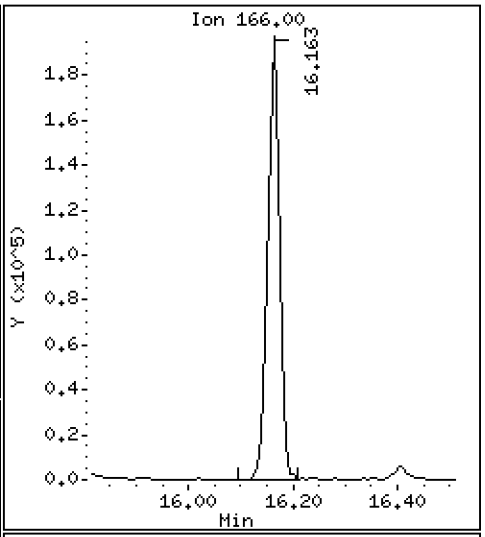
Column phase: ZB-5msi

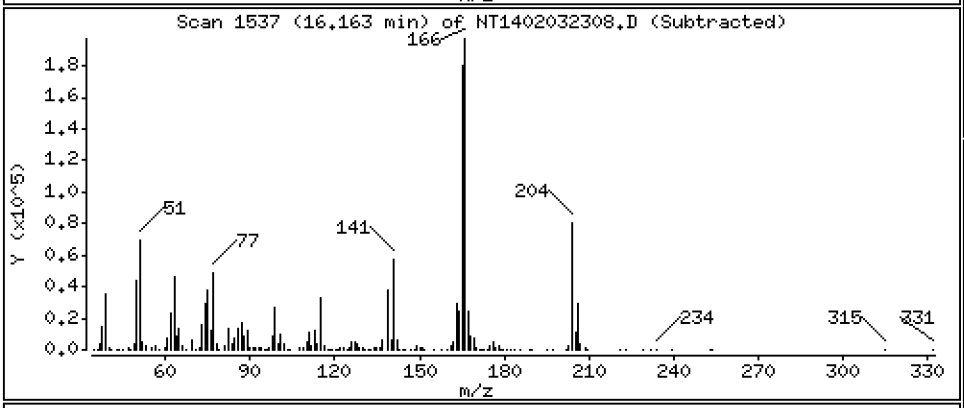
Column diameter: 0.25

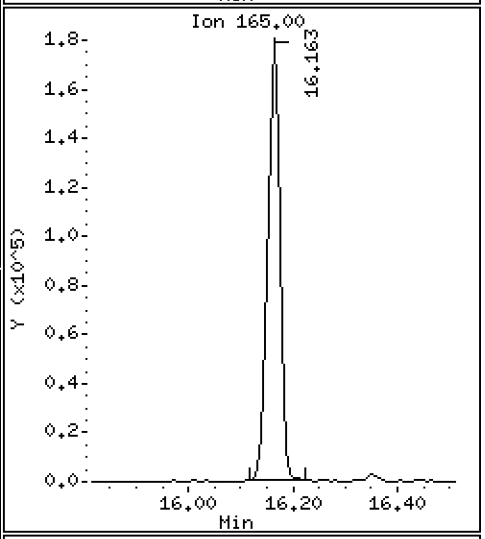
49 Fluorene

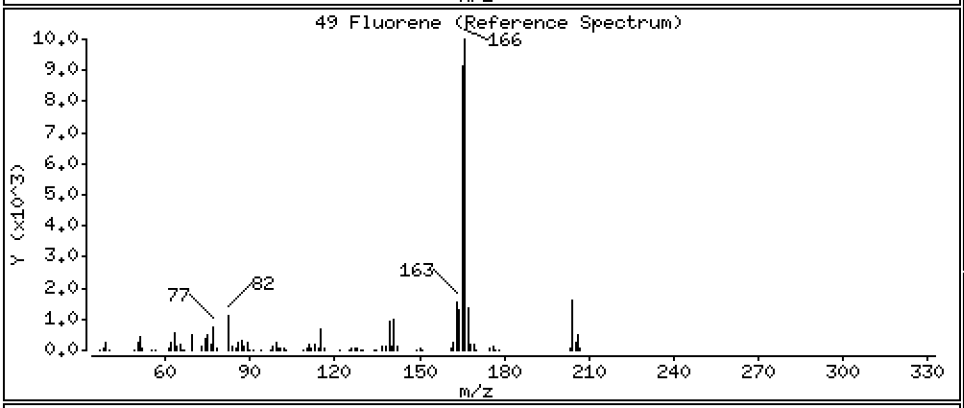
Concentration: 4.018 ug/mL

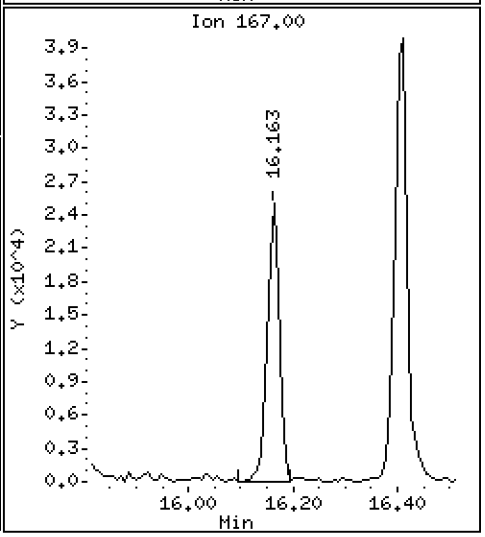


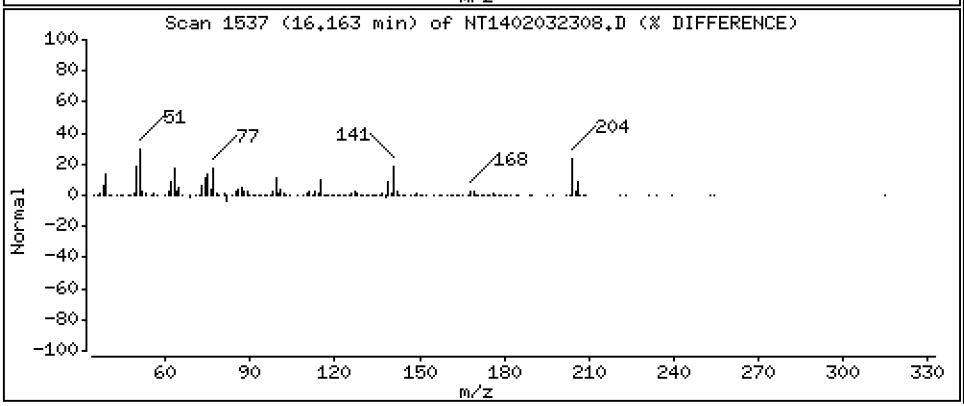












Date : 03-FEB-2023 17:20

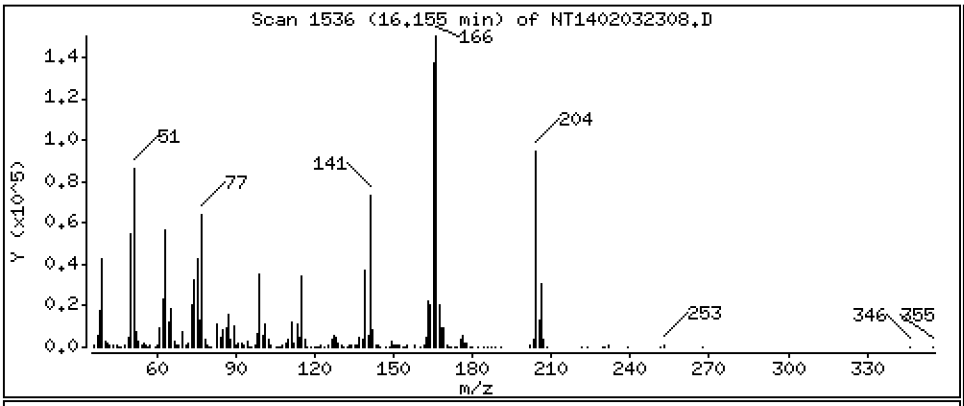
Client ID: Instrument: nt14.i

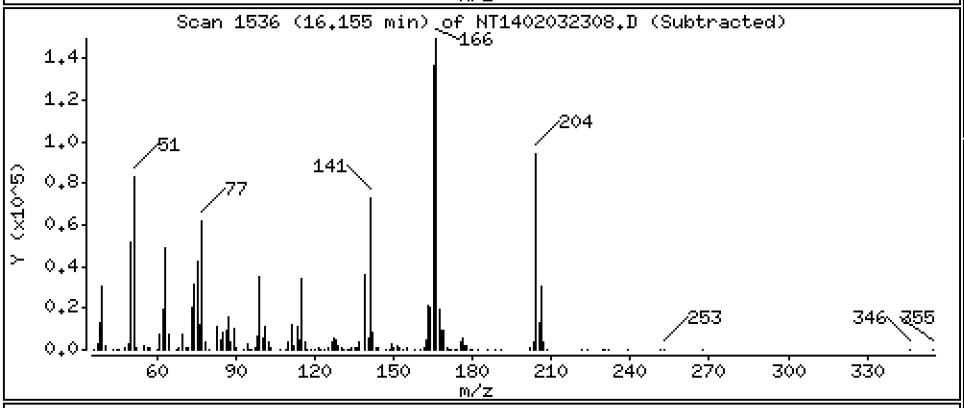
Sample Info: BLA0064-BSD1

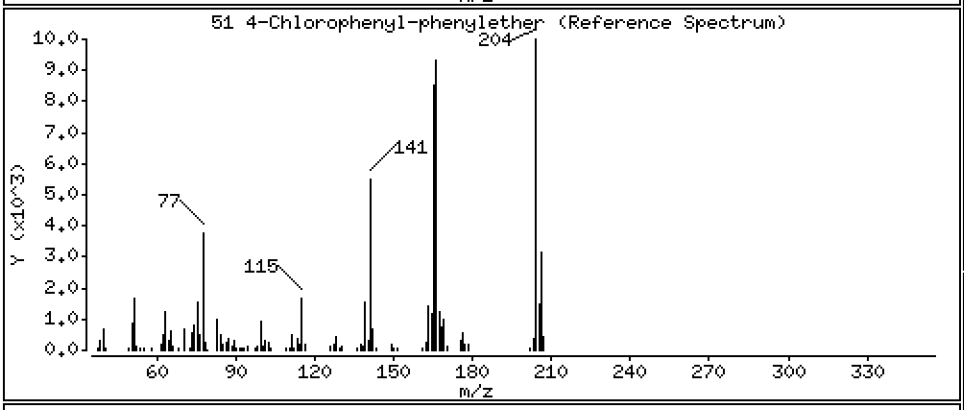
Operator: DSD

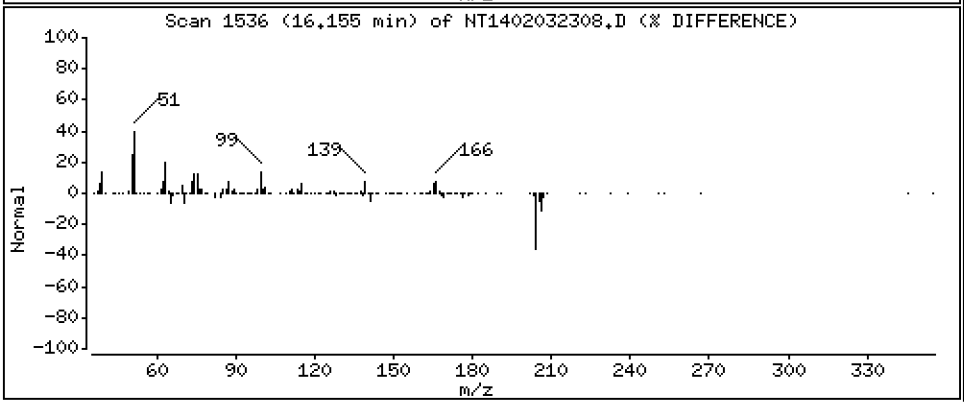
Column phase: ZB-5msi Column diameter: 0.25

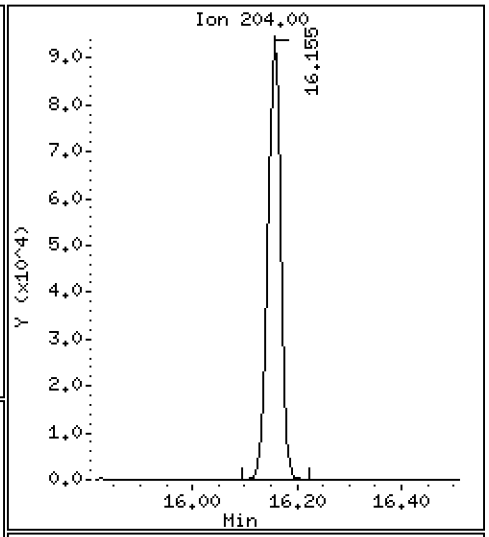
51 4-Chlorophenyl-phenylether Concentration: 3.607 ug/mL

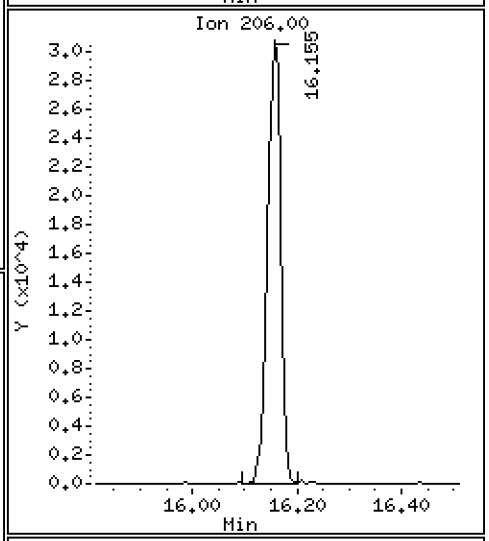


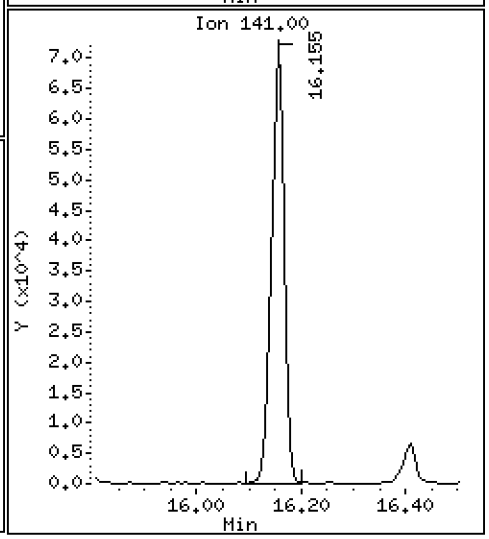












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

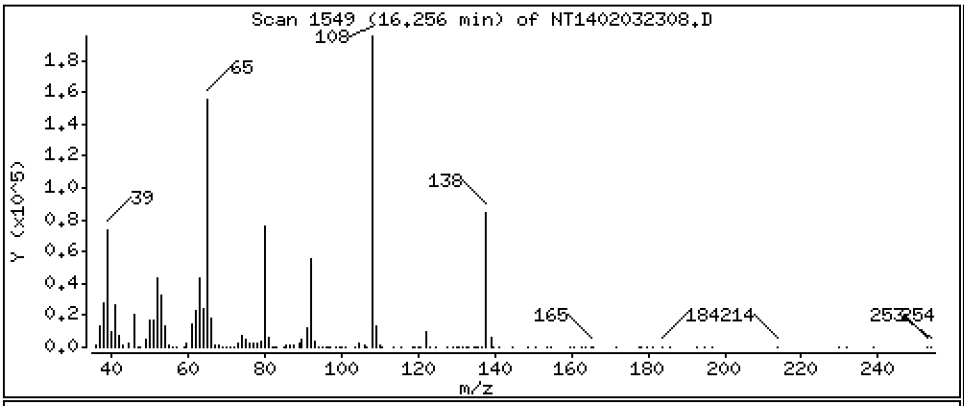
Operator: DSD

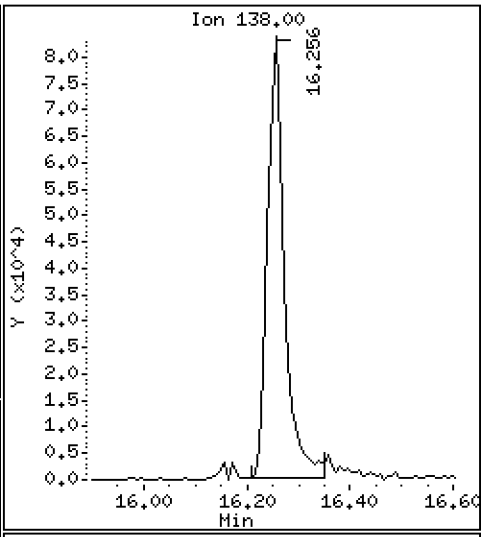
Column phase: ZB-5msi

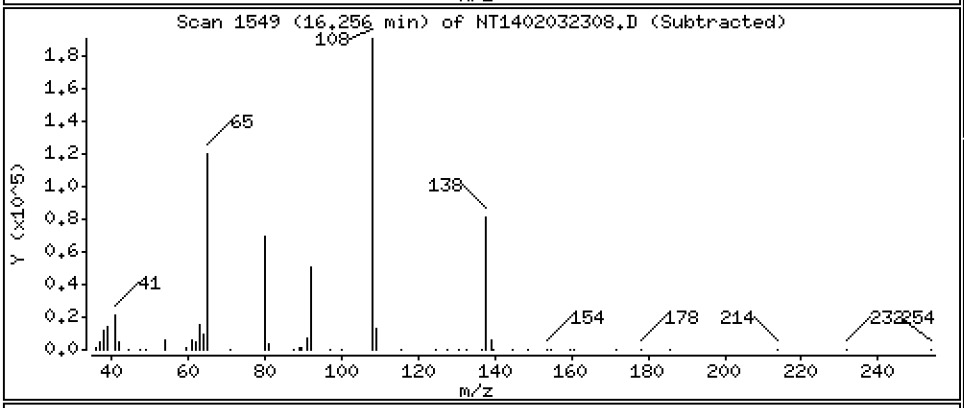
Column diameter: 0.25

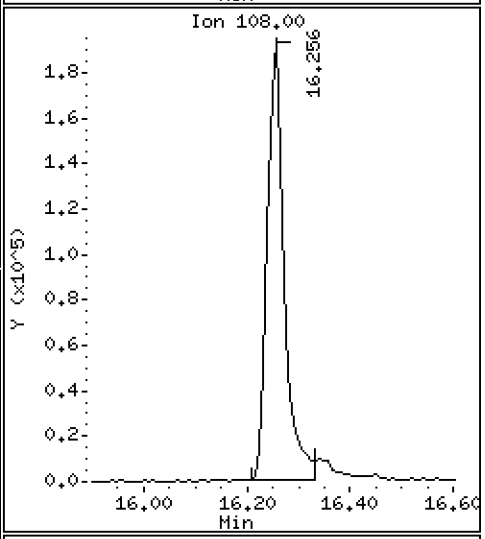
52 4-Nitroaniline

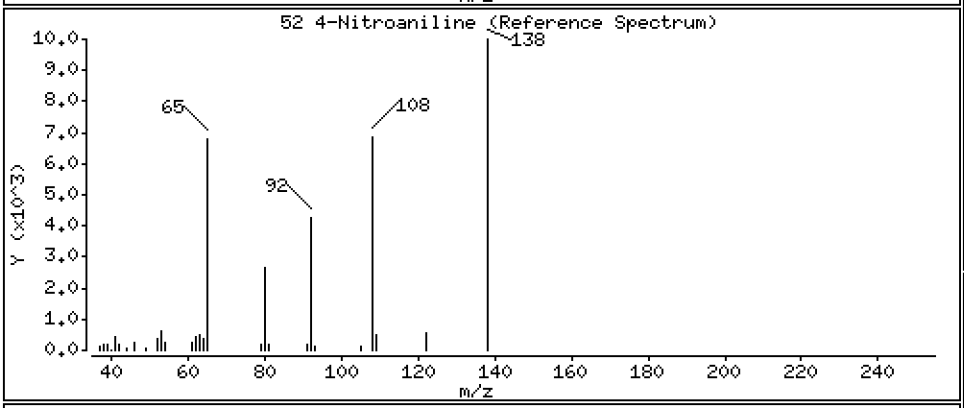
Concentration: 12.36 ug/mL

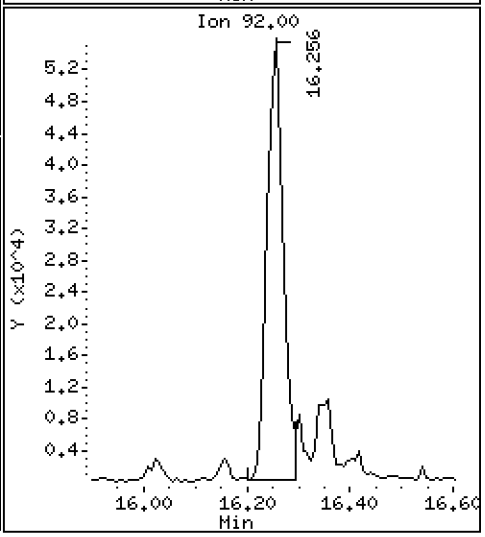


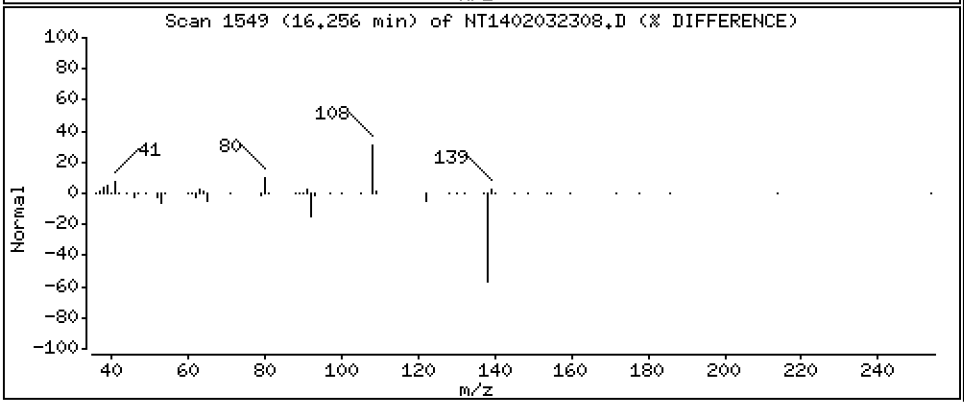












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

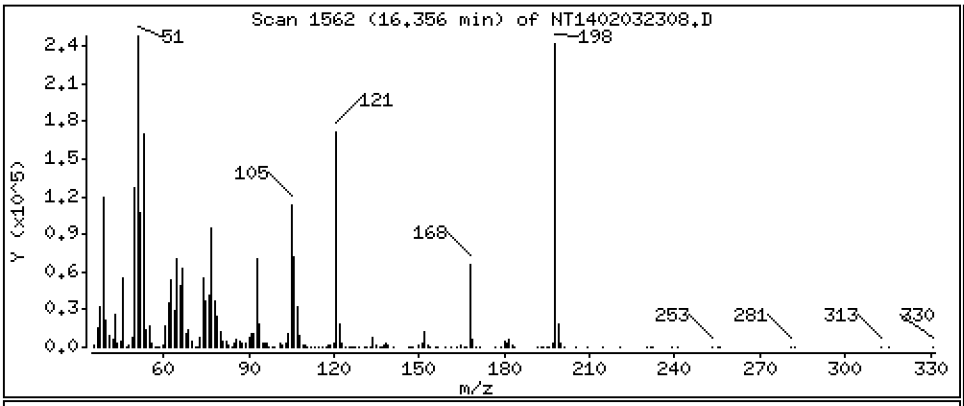
Operator: DSD

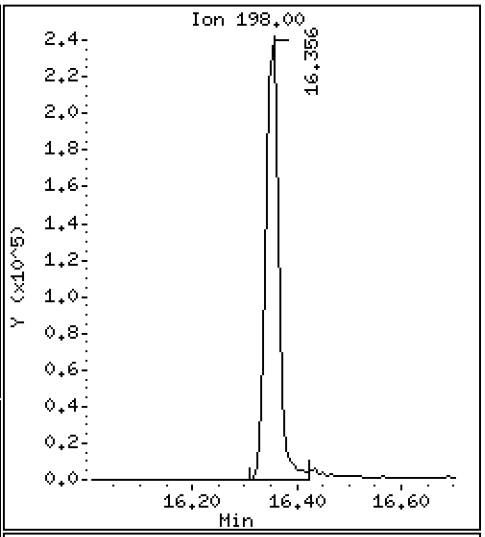
Column phase: ZB-5msi

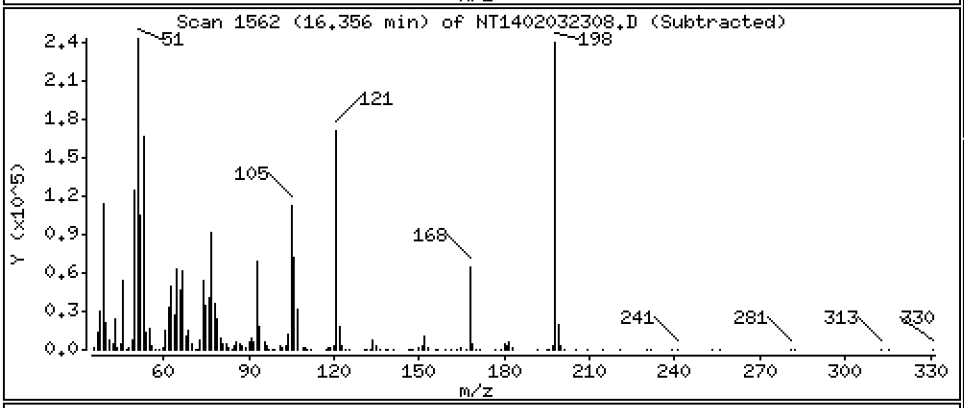
Column diameter: 0.25

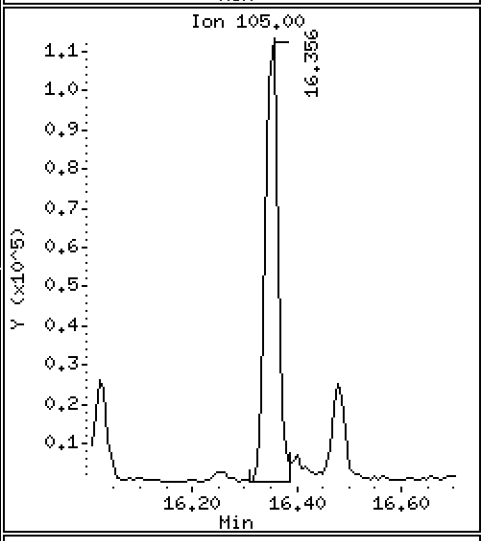
53 4,6-Dinitro-2-methylphenol

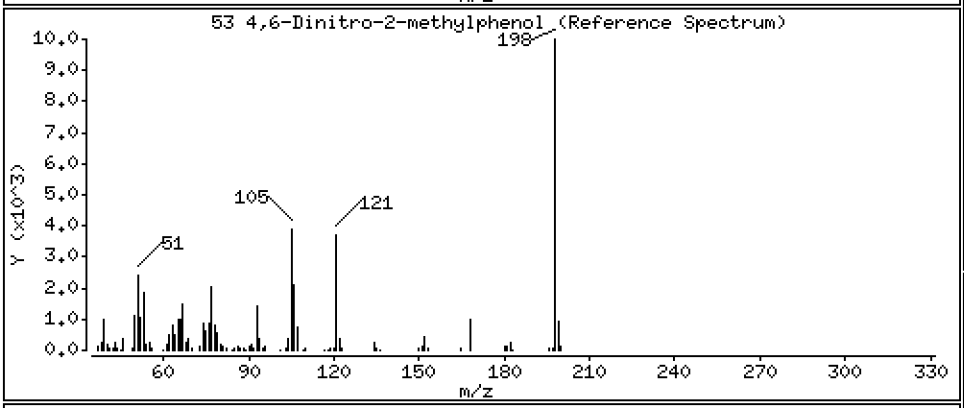
Concentration: 21.77 ug/mL

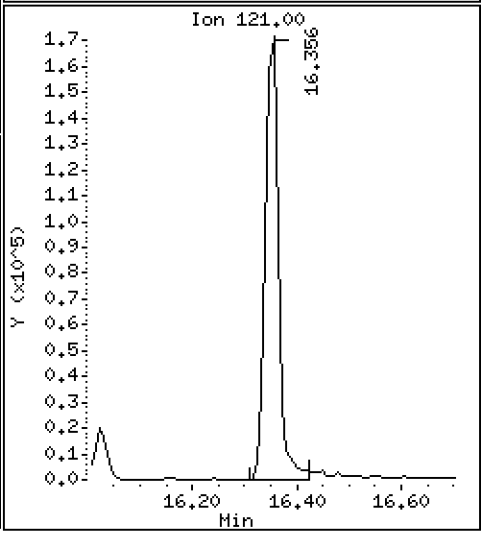


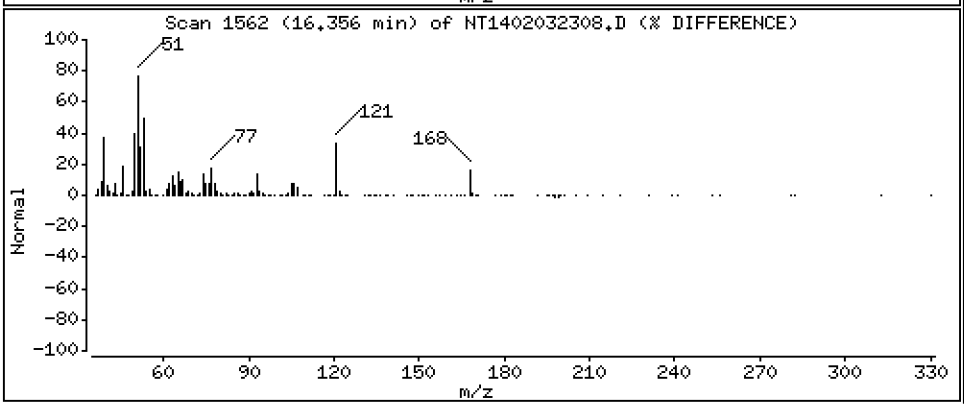












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

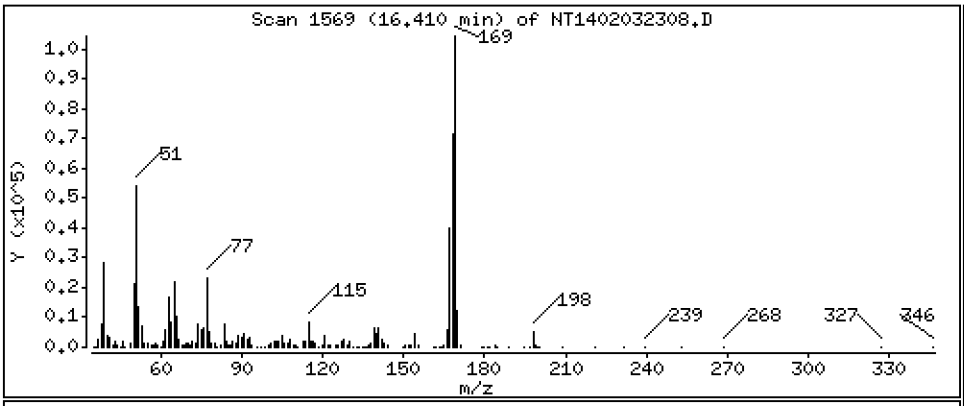
Operator: DSD

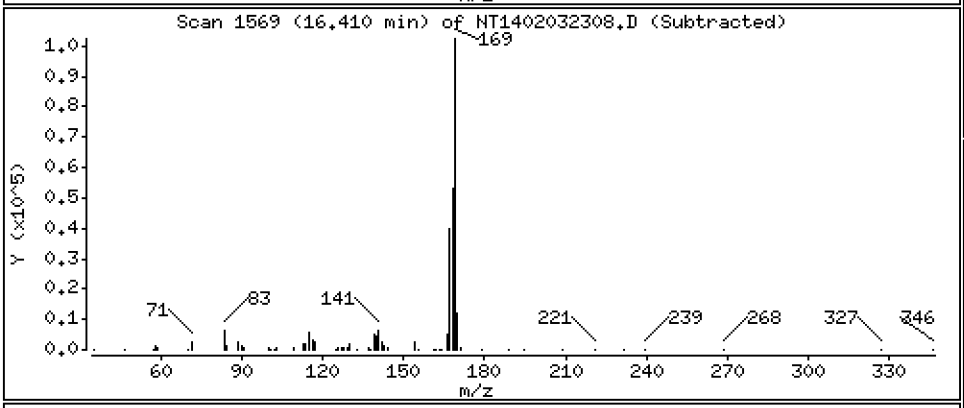
Column phase: ZB-5msi

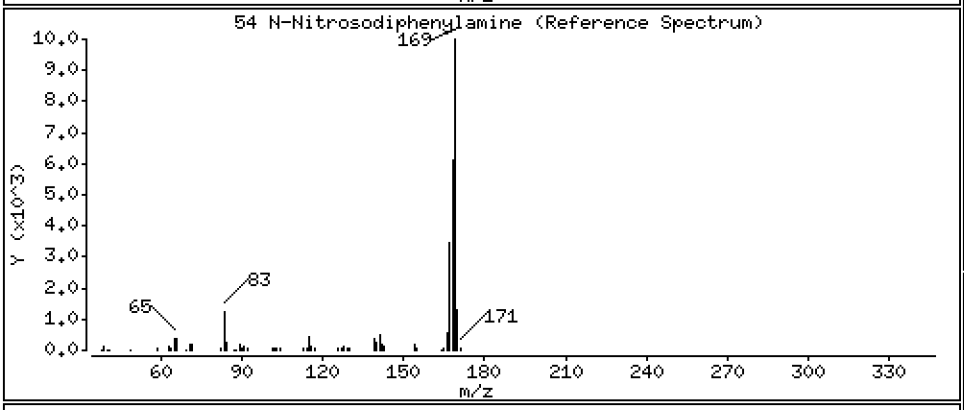
Column diameter: 0.25

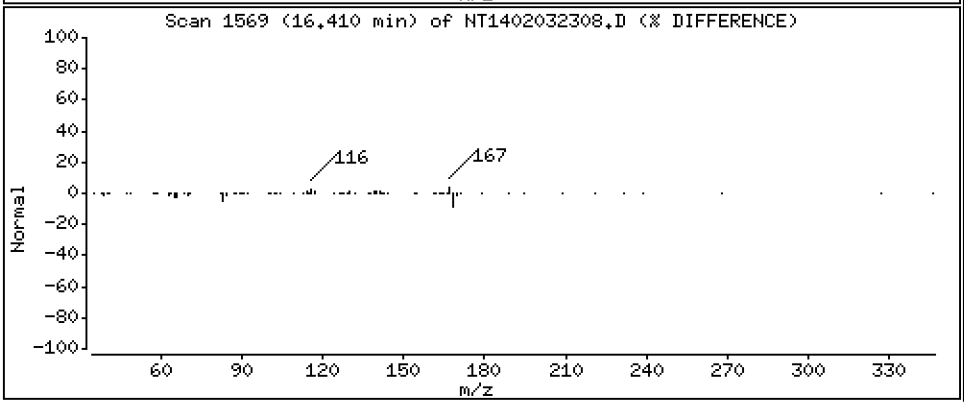
54 N-Nitrosodiphenylamine

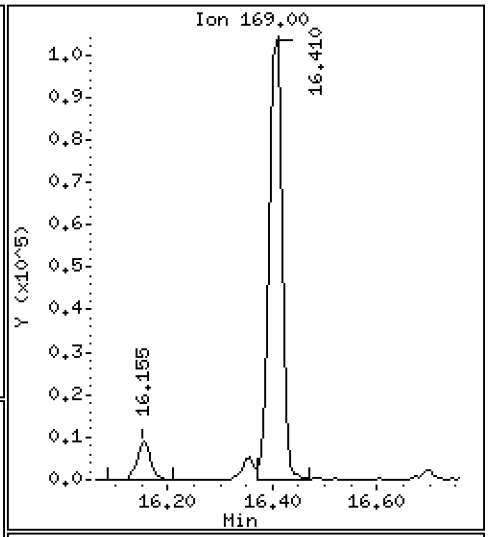
Concentration: 3.421 ug/mL

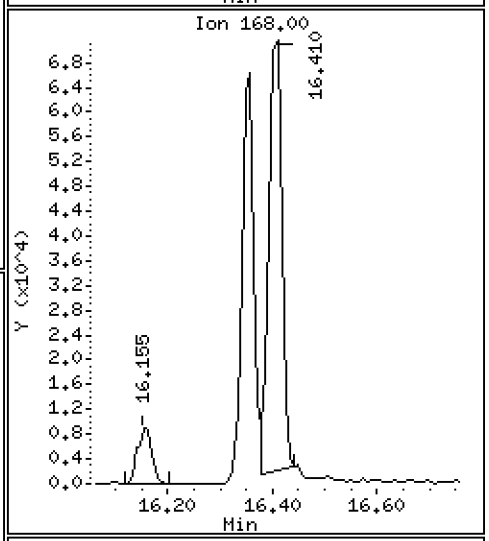


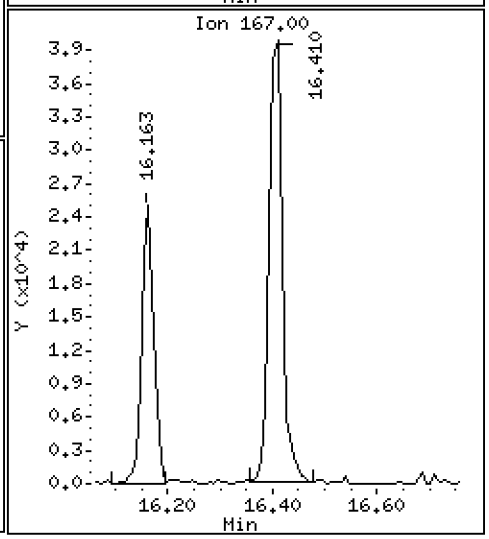












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

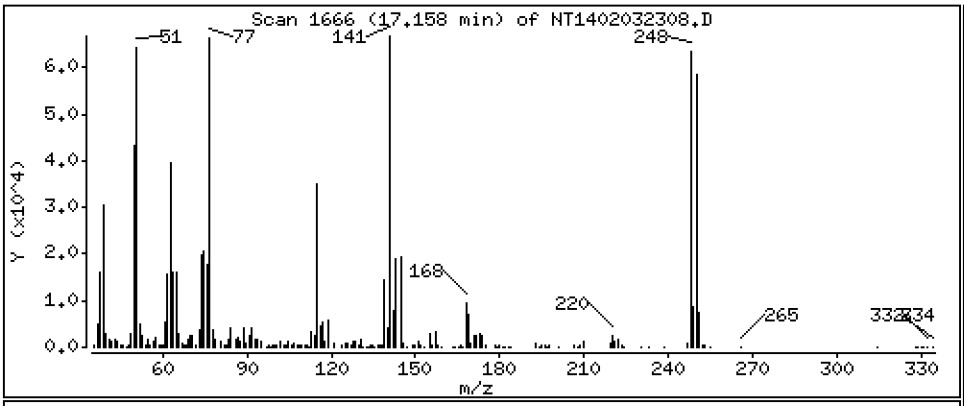
Operator: DSD

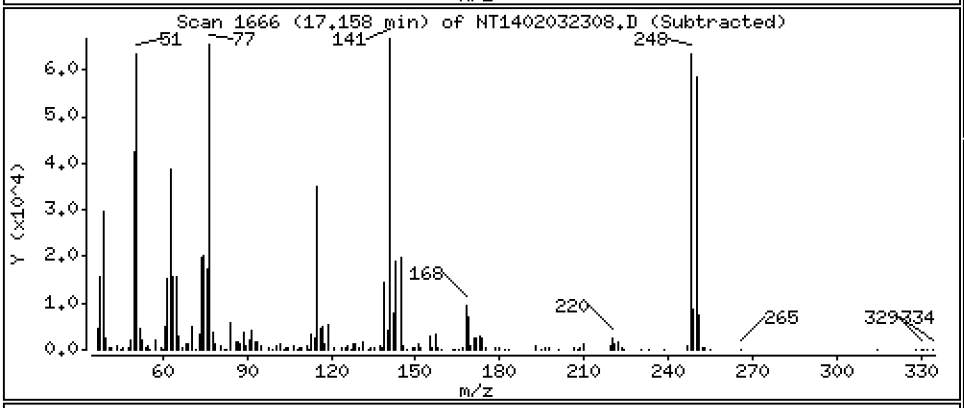
Column phase: ZB-5msi

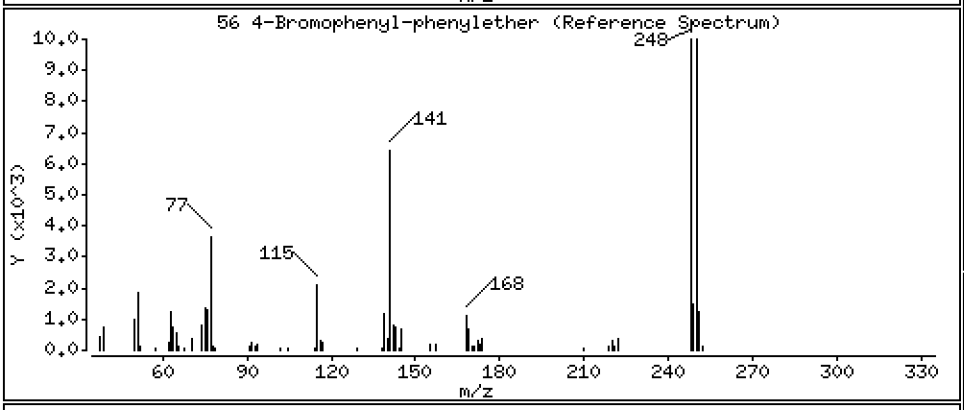
Column diameter: 0.25

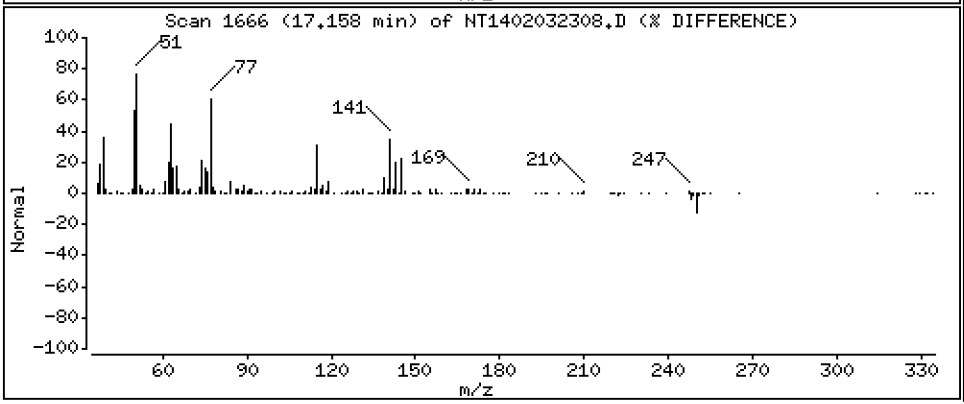
56 4-Bromophenyl-phenylether

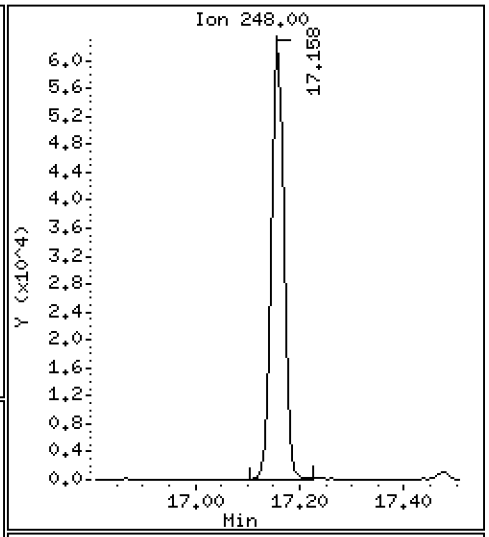
Concentration: 4.277 ug/mL

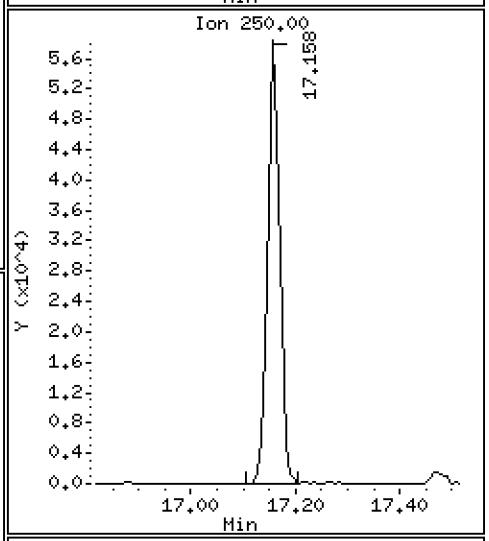


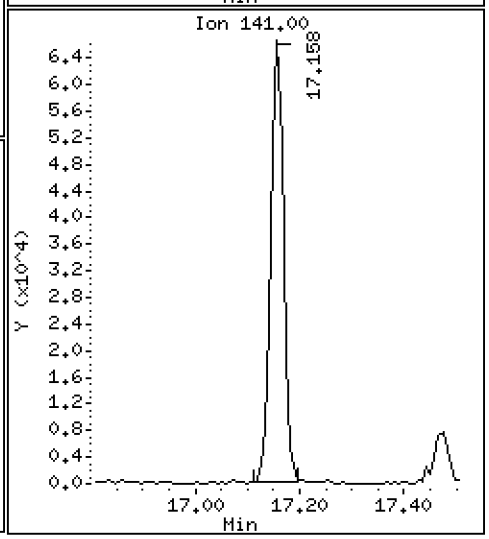












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

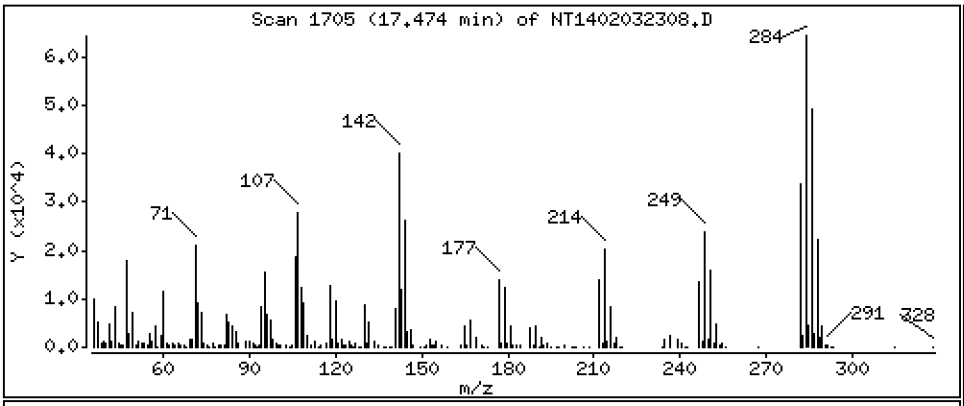
Operator: DSD

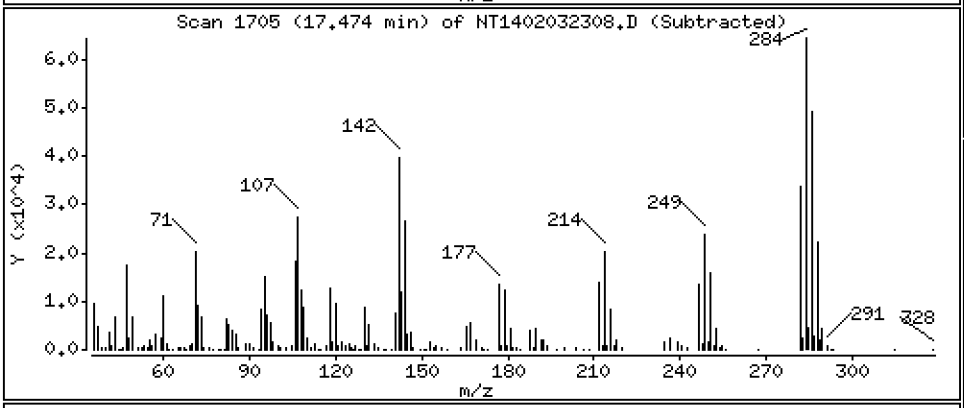
Column phase: ZB-5msi

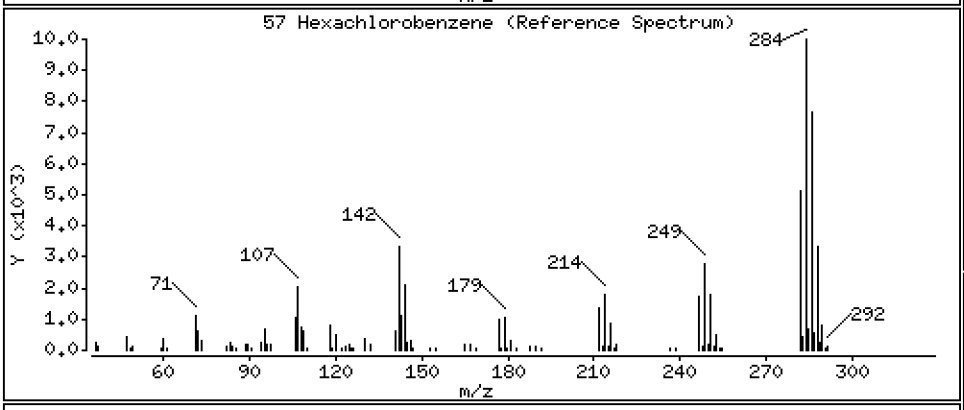
Column diameter: 0.25

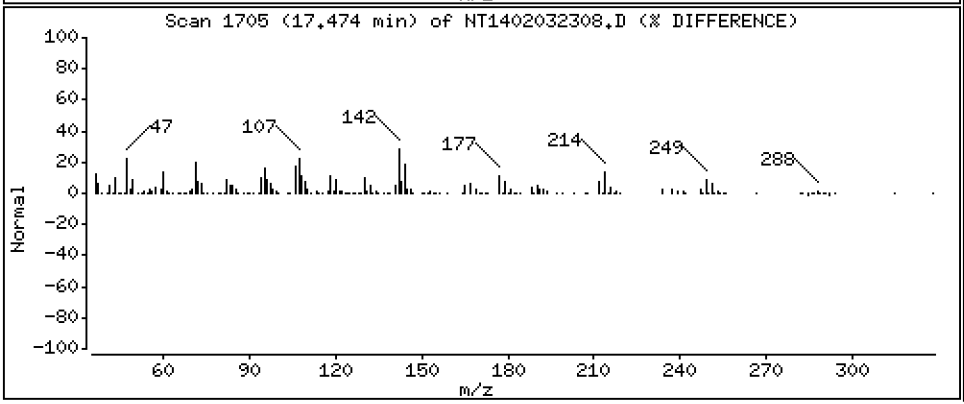
57 Hexachlorobenzene

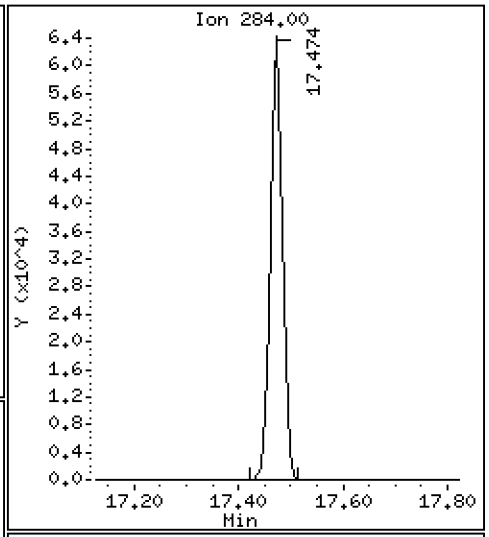
Concentration: 3.862 ug/mL

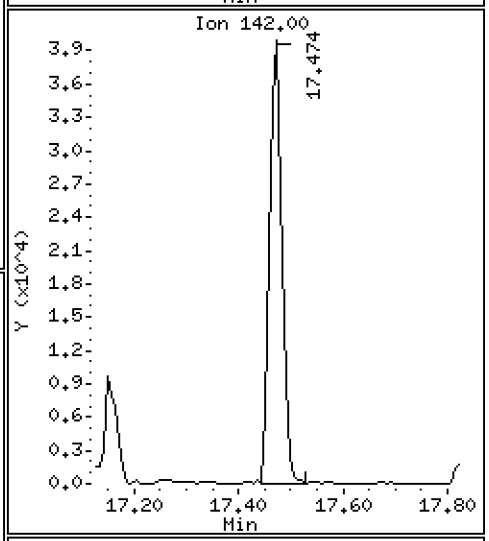


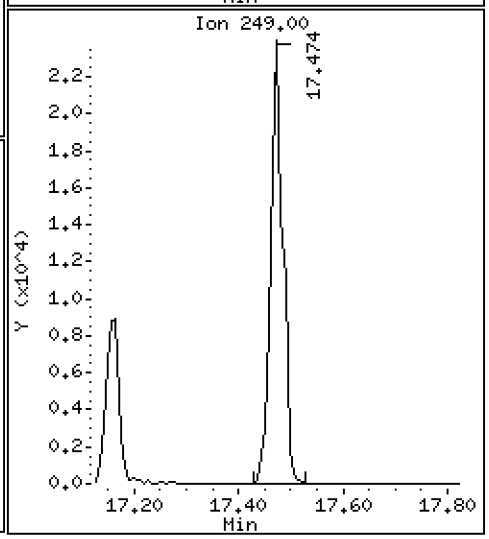












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

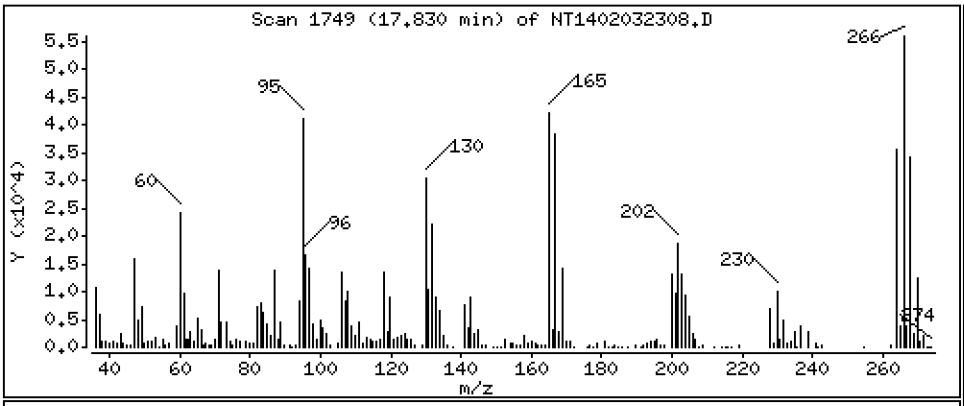
Operator: DSD

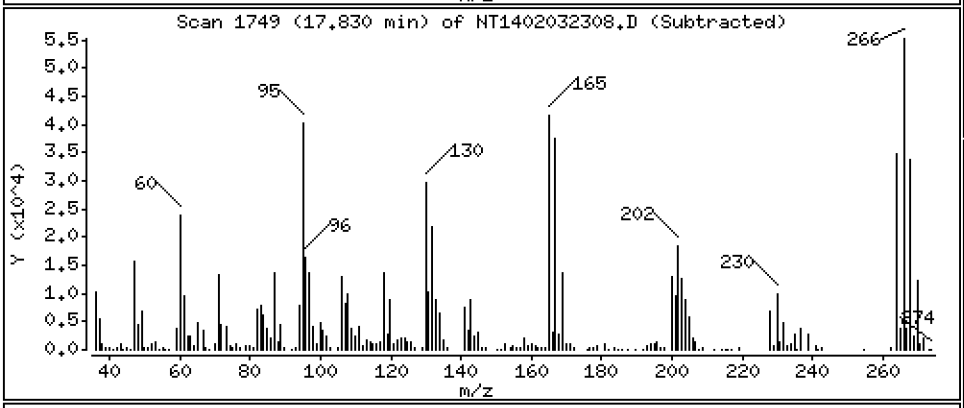
Column phase: ZB-5msi

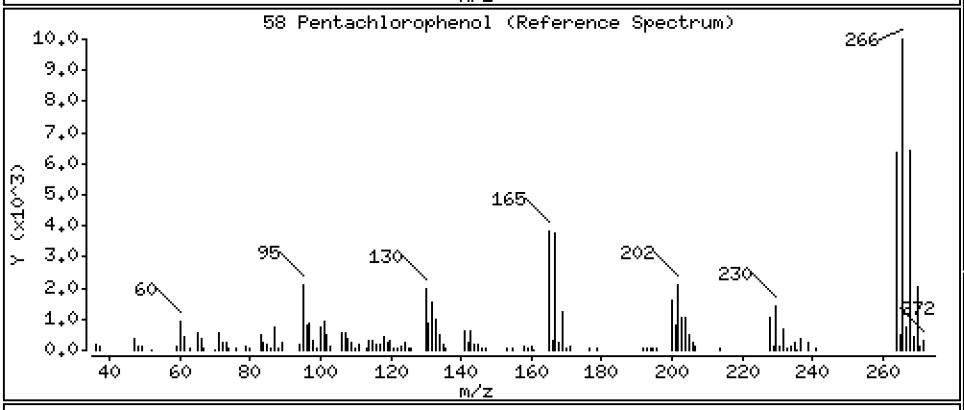
Column diameter: 0.25

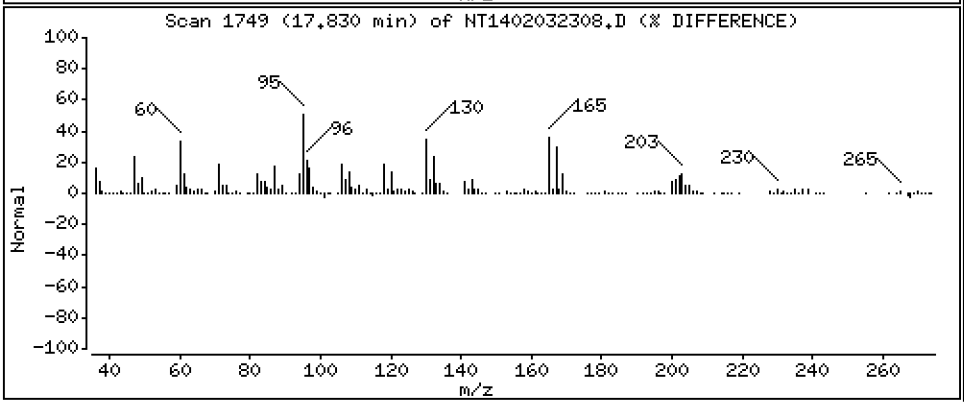
58 Pentachlorophenol

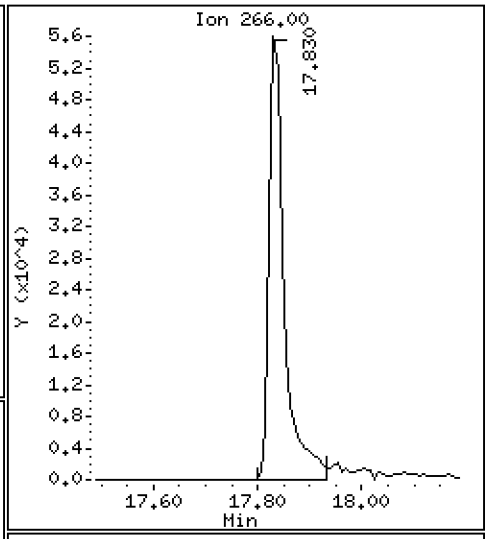
Concentration: 7.395 ug/mL

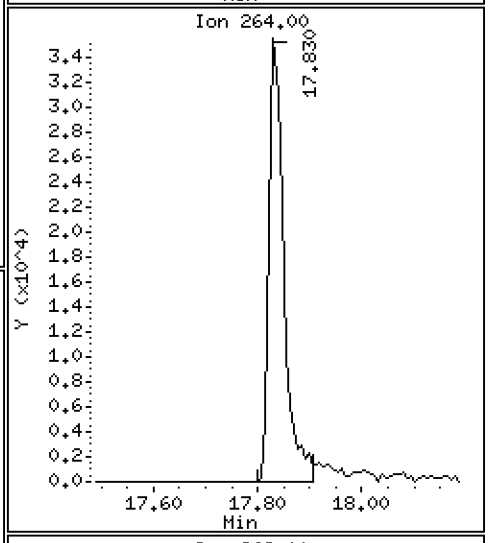


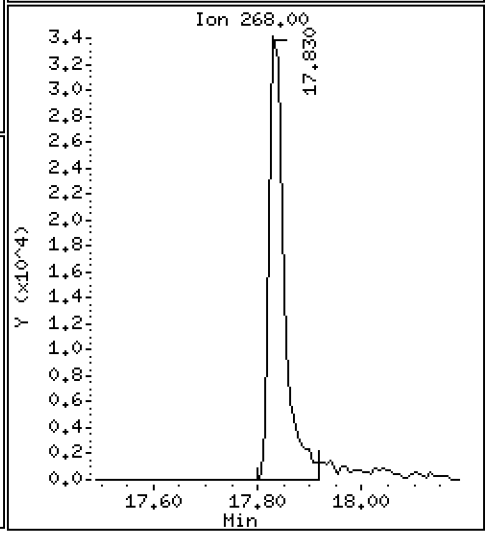












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

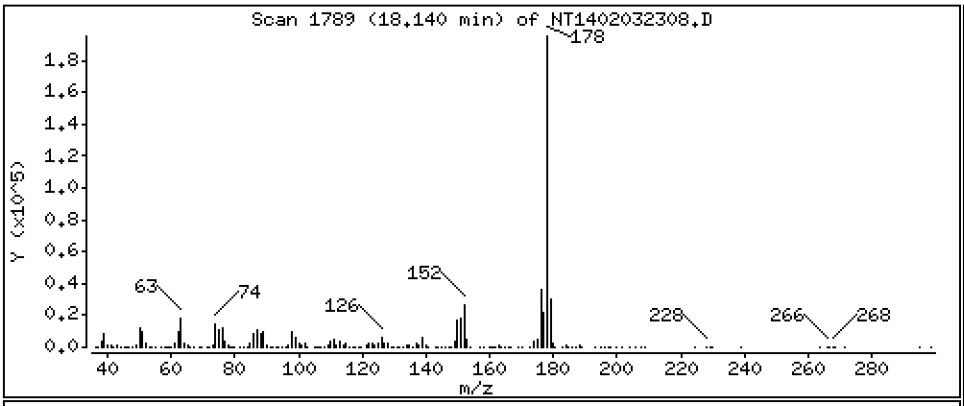
Operator: DSD

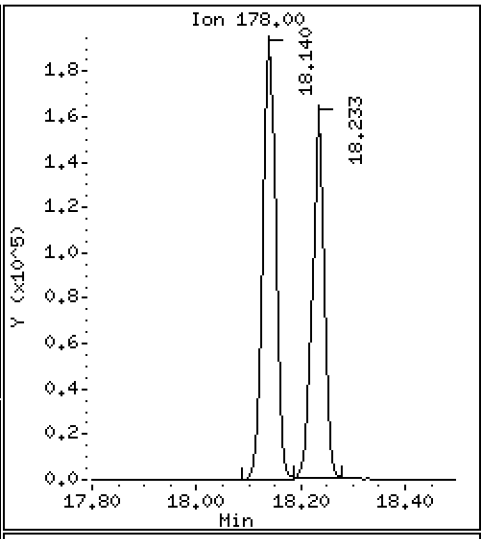
Column phase: ZB-5msi

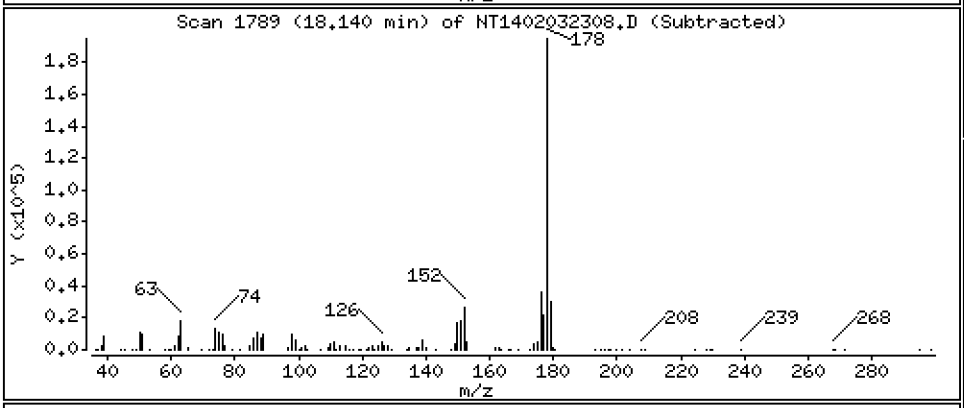
Column diameter: 0.25

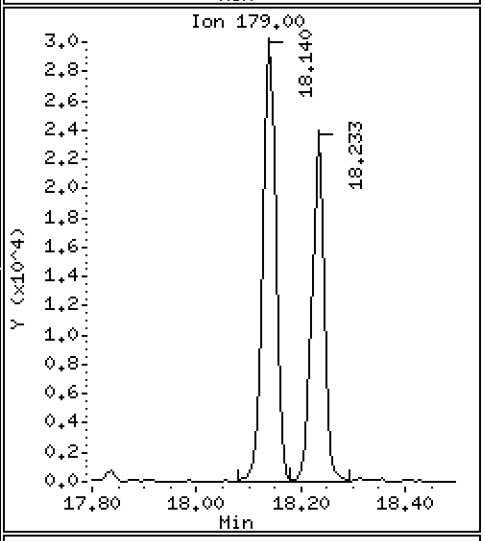
60 Phenanthrene

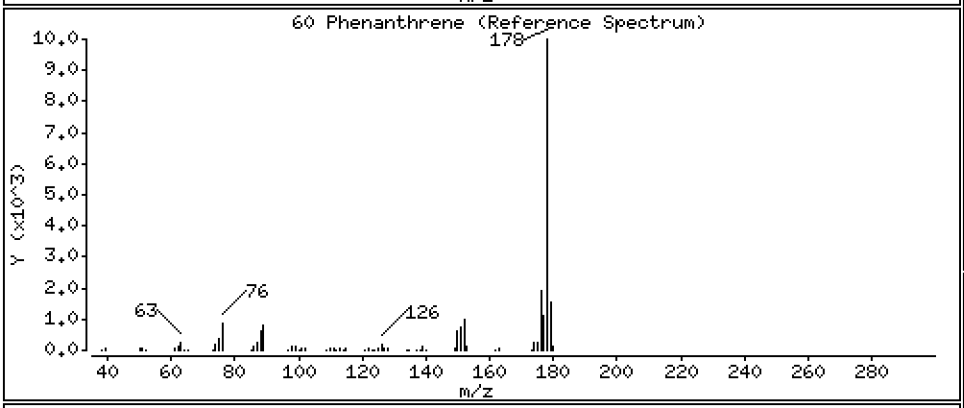
Concentration: 4.010 ug/mL

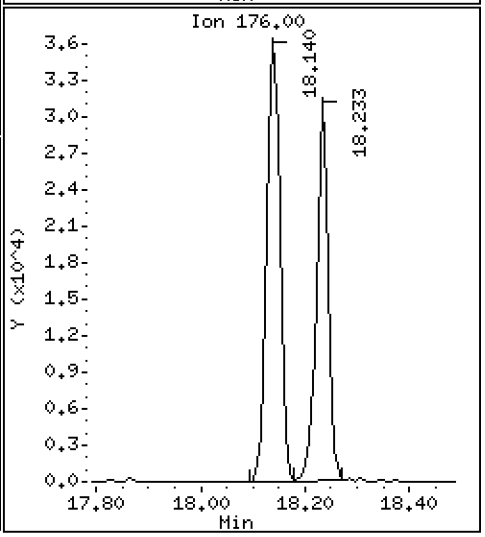


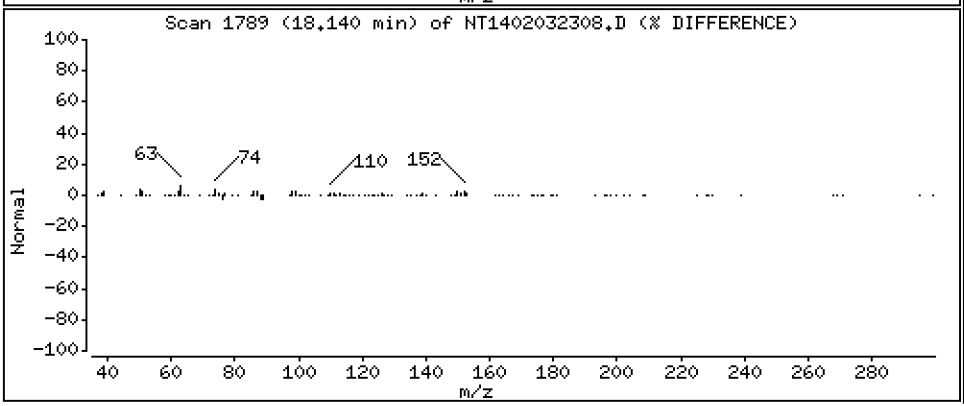












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

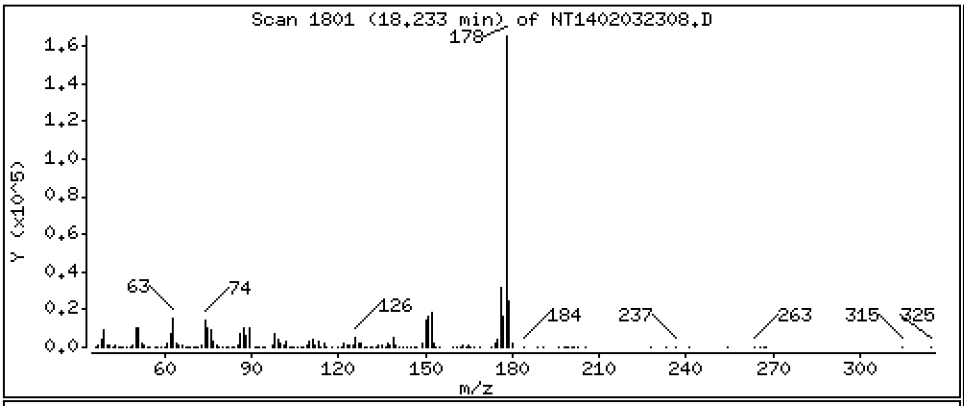
Operator: DSD

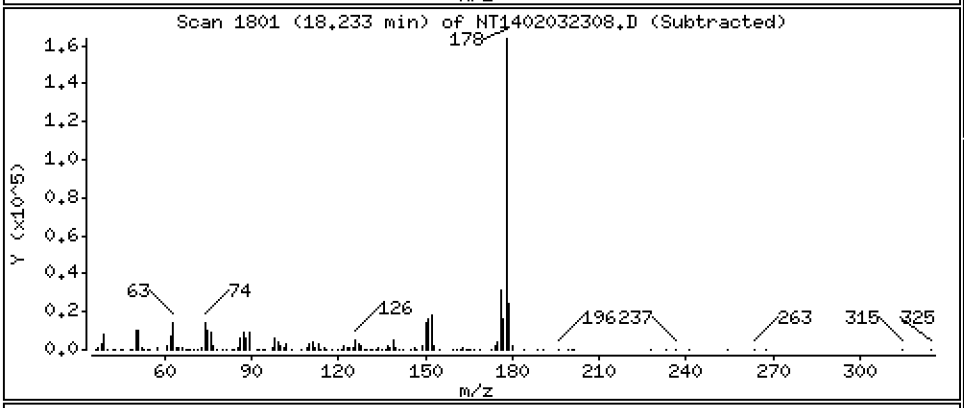
Column phase: ZB-5msi

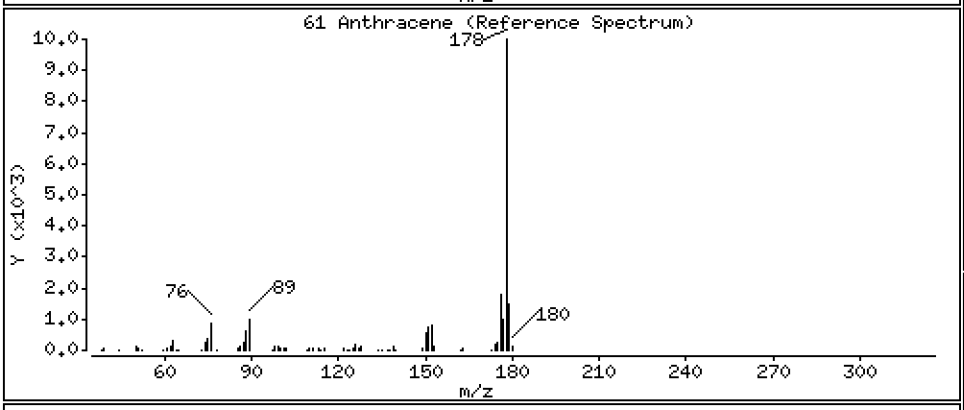
Column diameter: 0.25

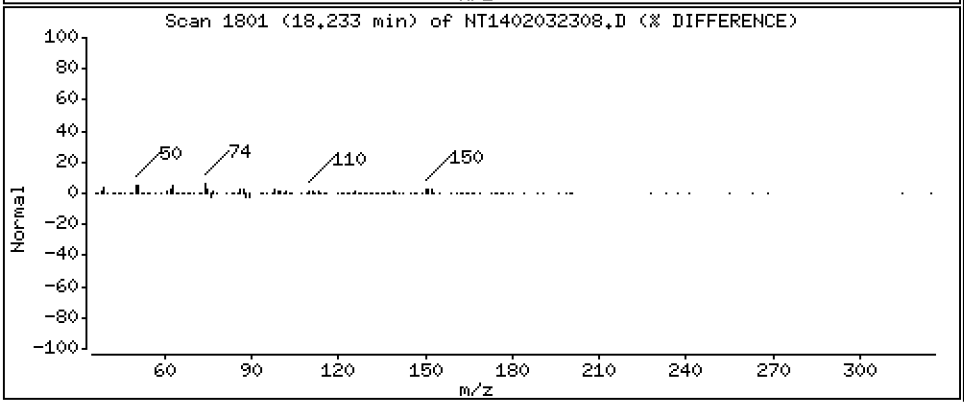
61 Anthracene

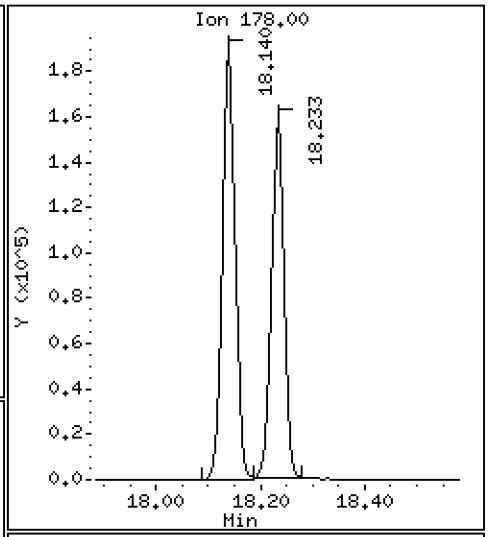
Concentration: 3.301 ug/mL

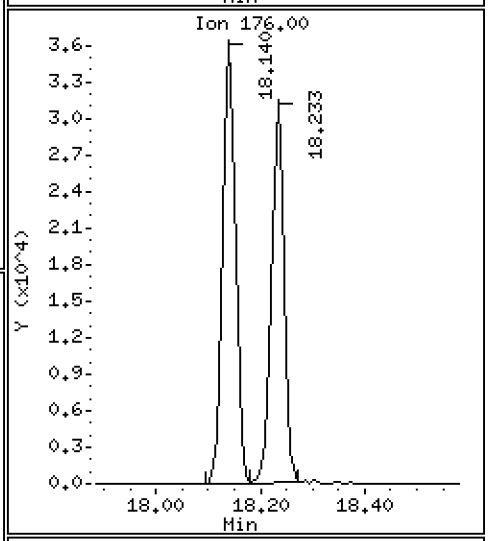


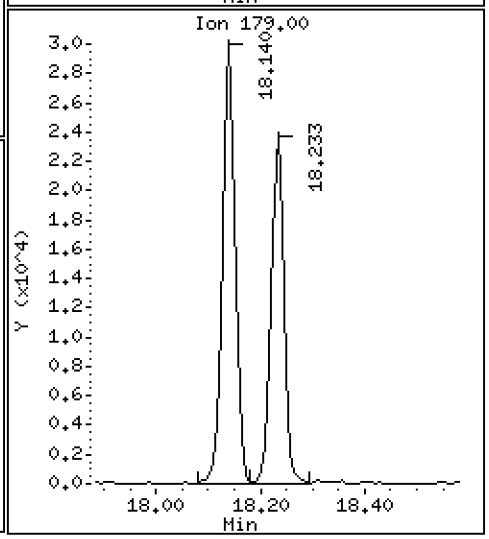












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

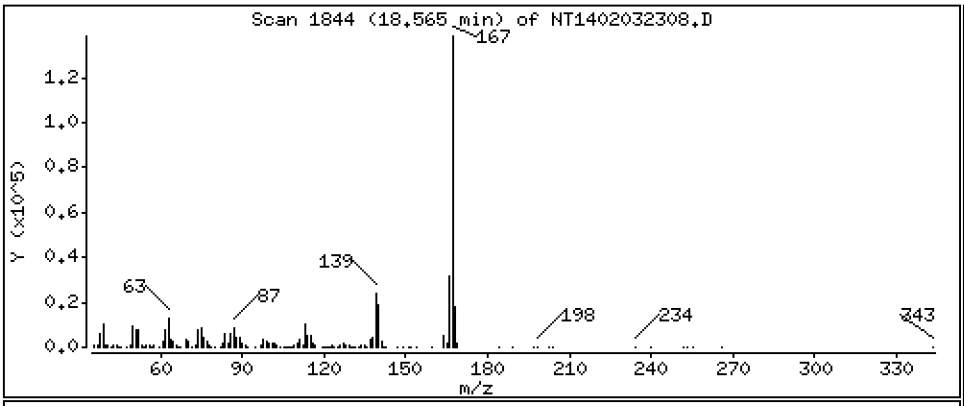
Operator: DSD

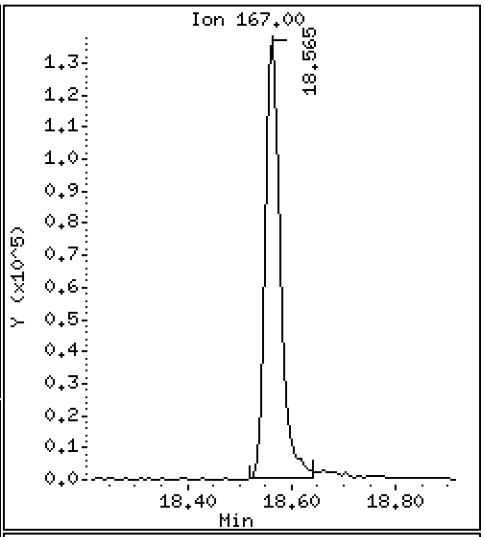
Column phase: ZB-5msi

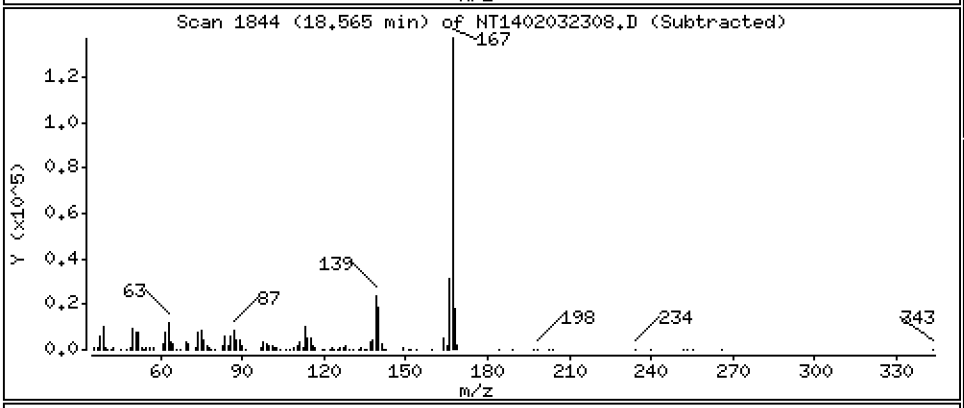
Column diameter: 0.25

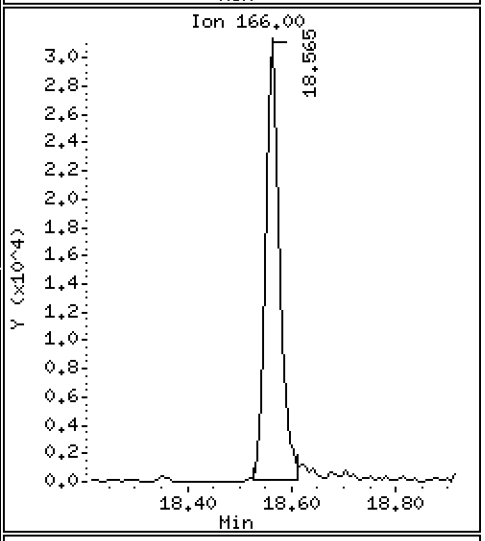
62 Carbazole

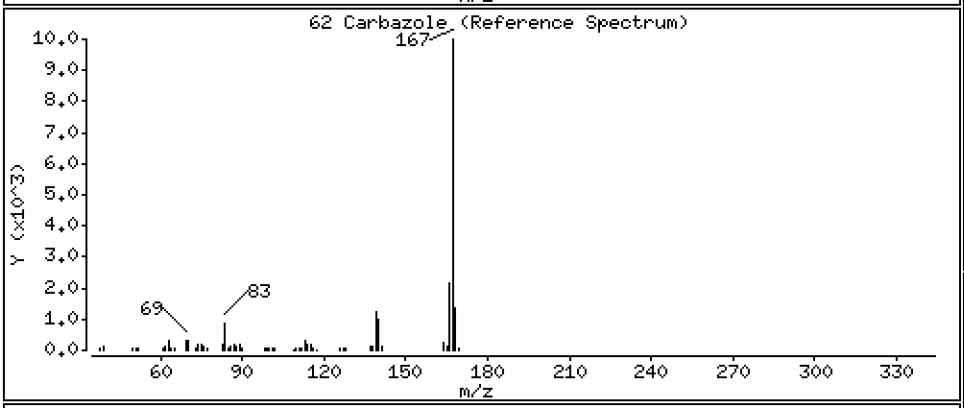
Concentration: 3.886 ug/mL

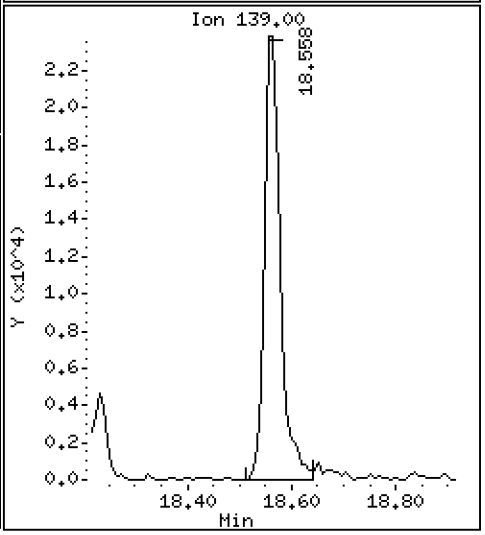


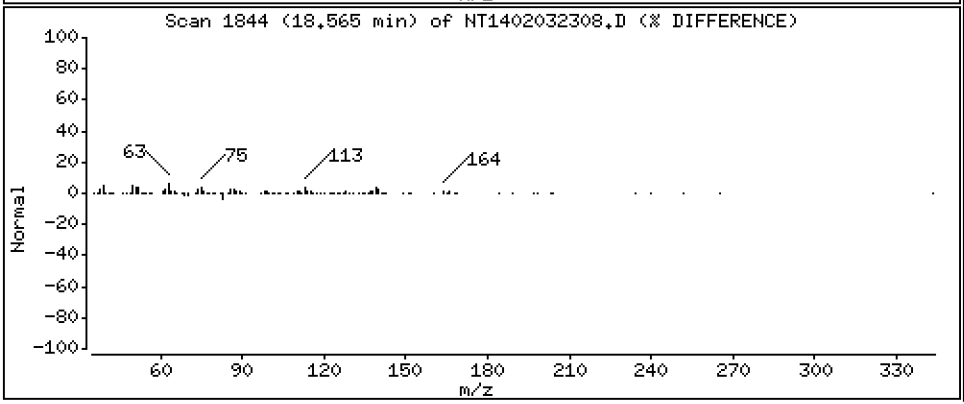












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

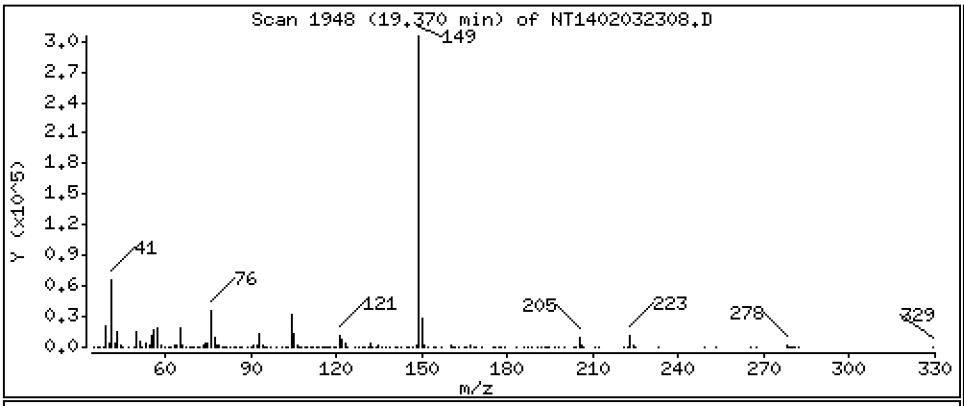
Operator: DSD

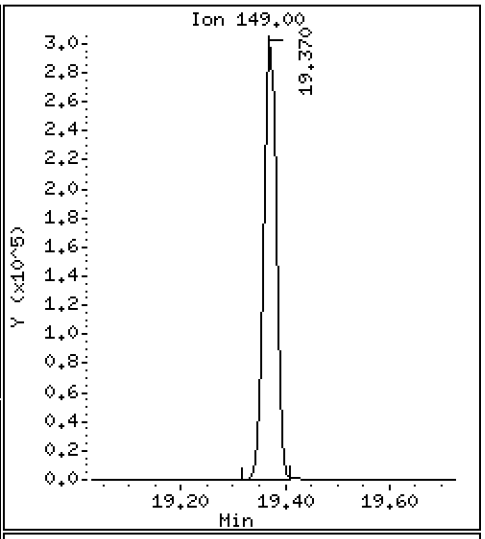
Column phase: ZB-5msi

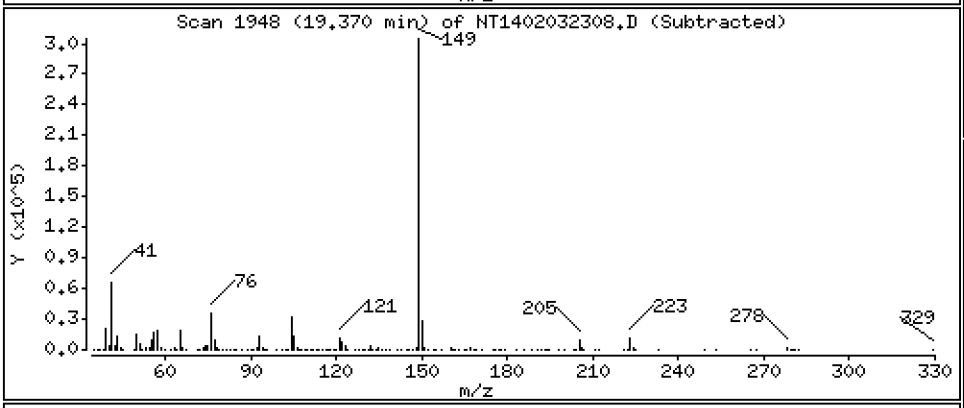
Column diameter: 0.25

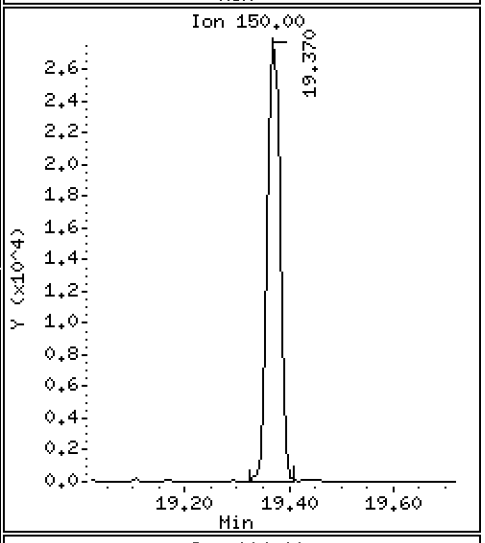
63 Di-n-butylphthalate

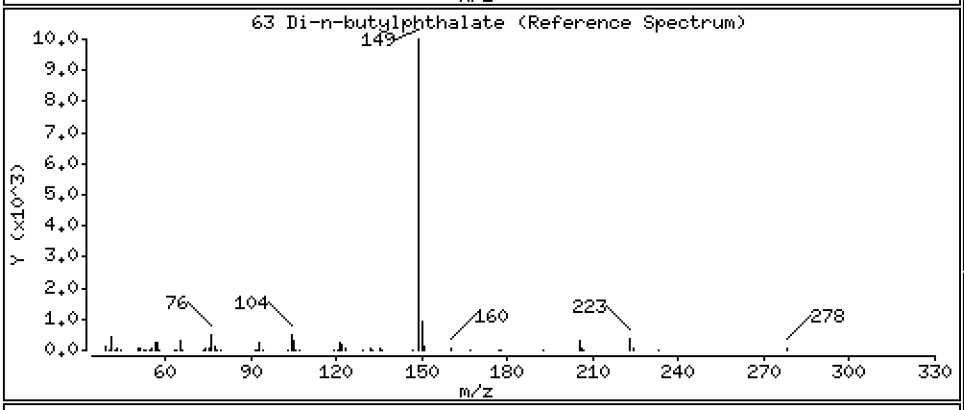
Concentration: 4.473 ug/mL

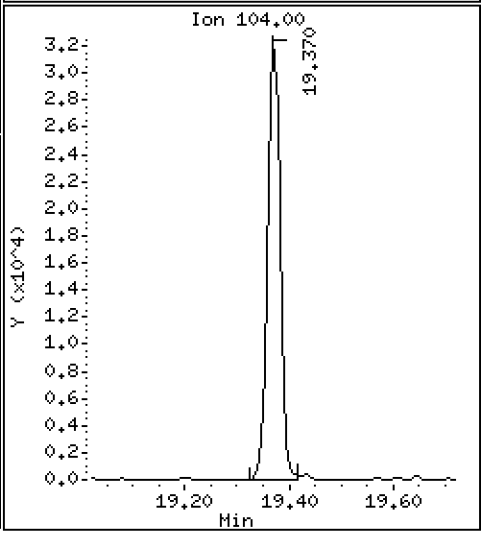


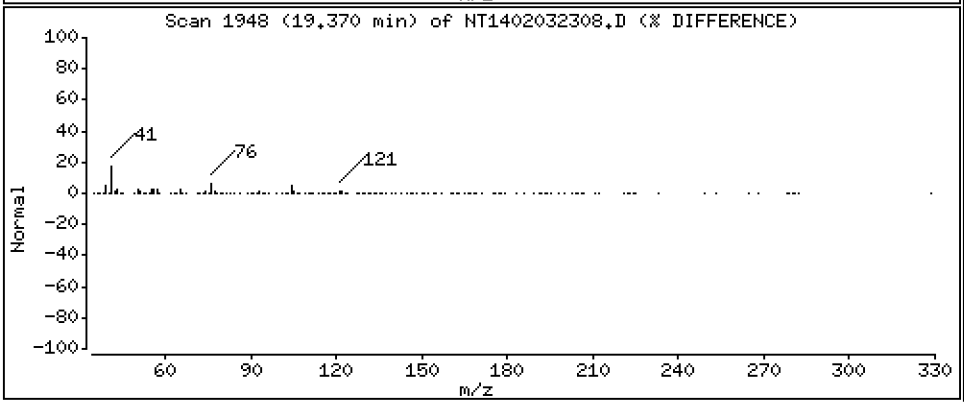












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

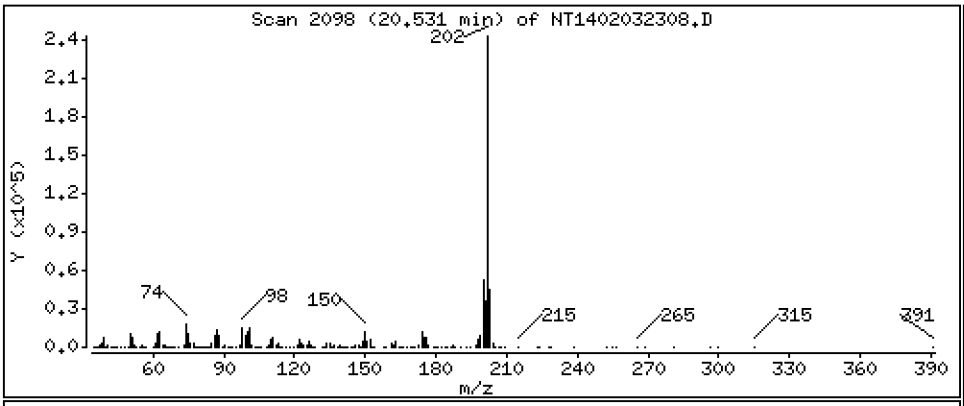
Operator: DSD

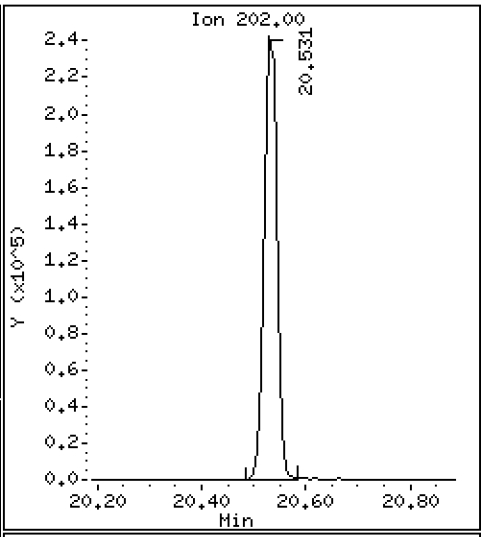
Column phase: ZB-5msi

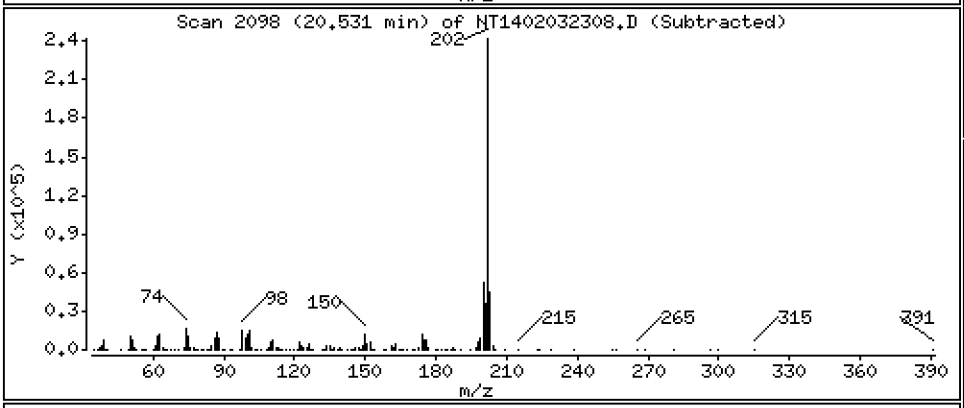
Column diameter: 0.25

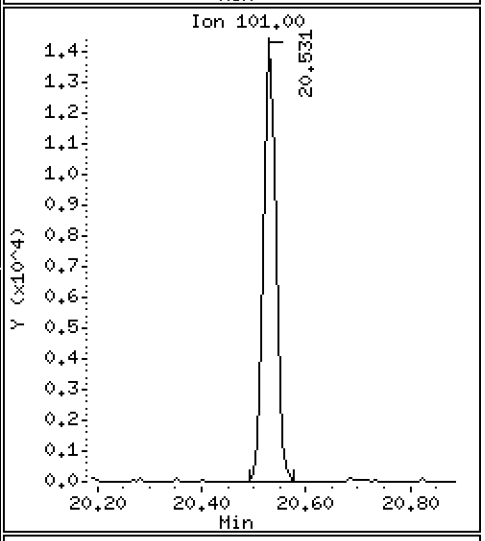
64 Fluoranthene

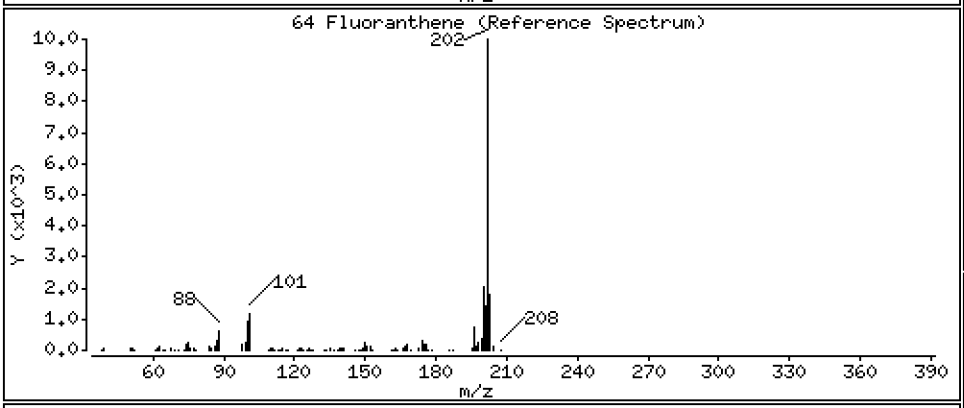
Concentration: 4.522 ug/mL

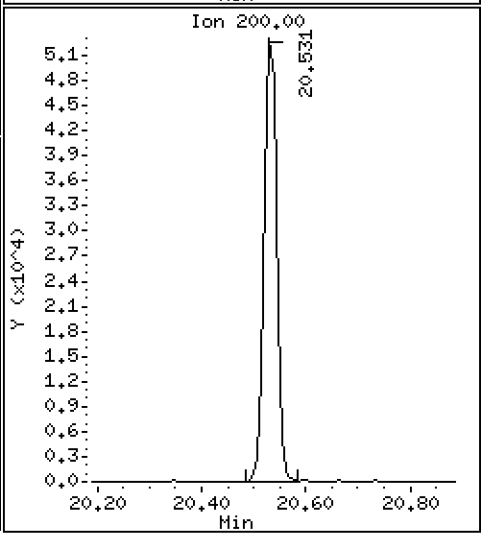


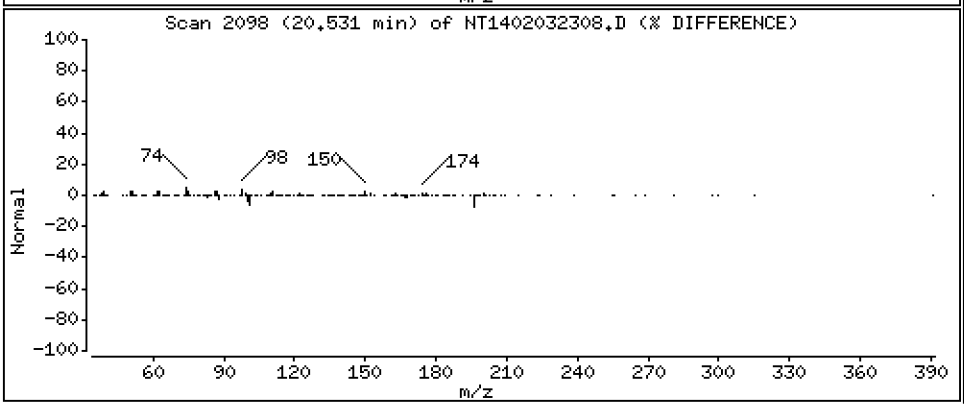












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

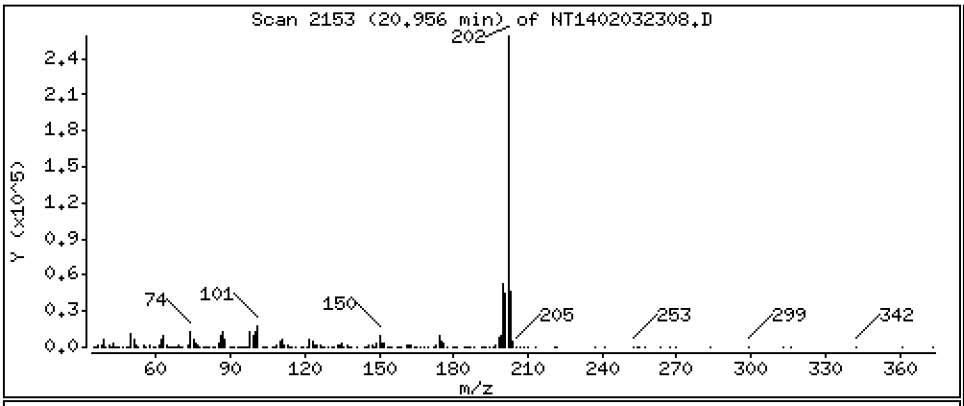
Operator: DSD

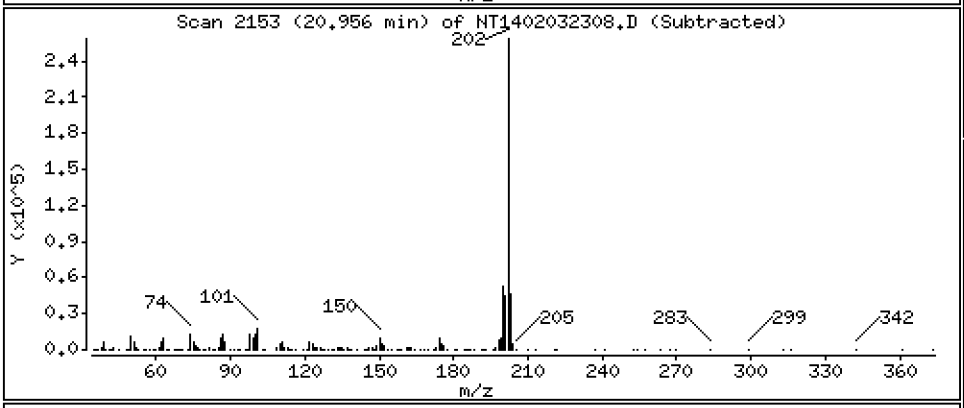
Column phase: ZB-5msi

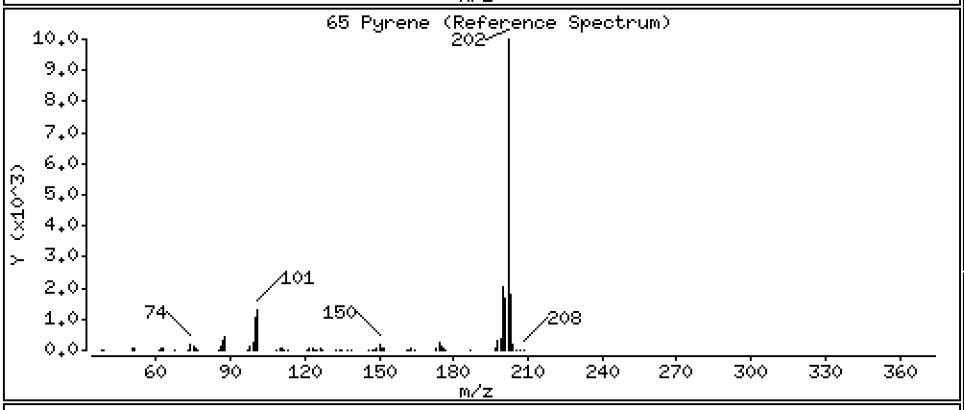
Column diameter: 0.25

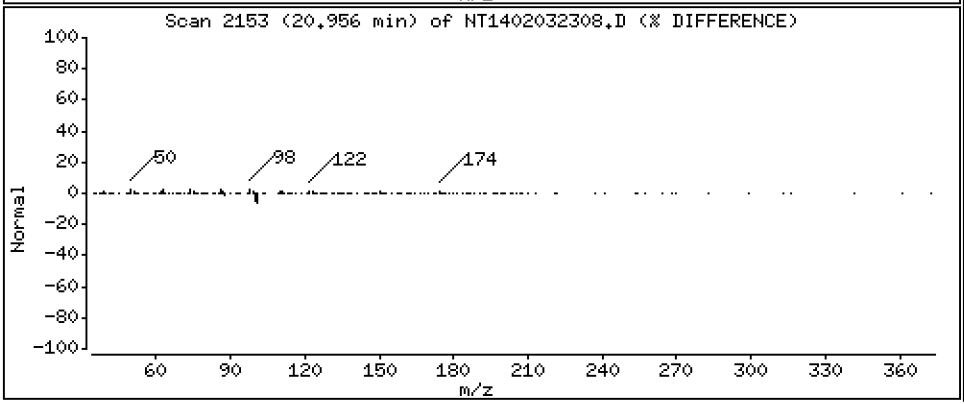
65 Pyrene

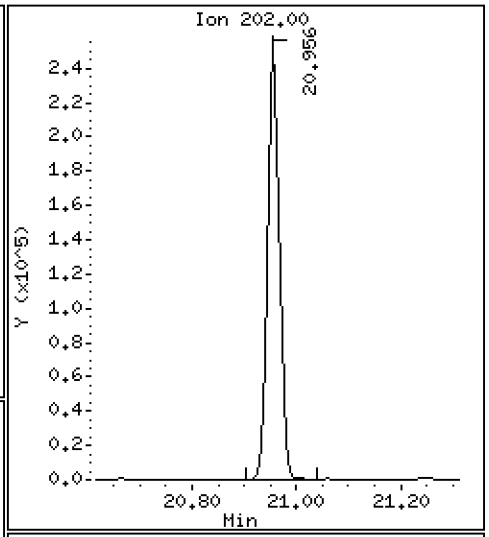
Concentration: 4.521 ug/mL

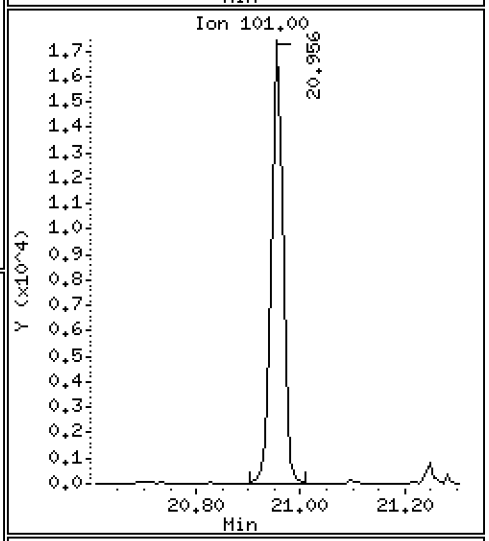


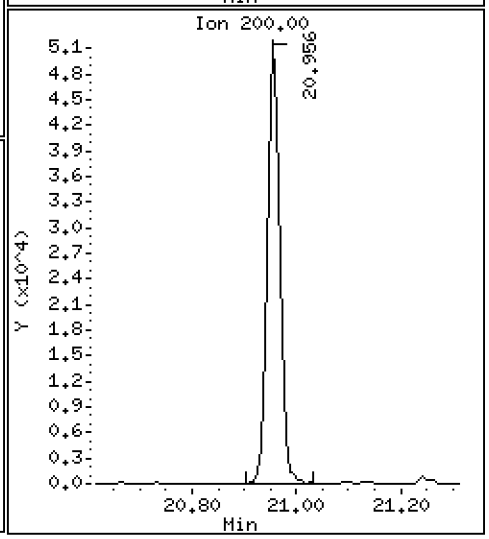












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

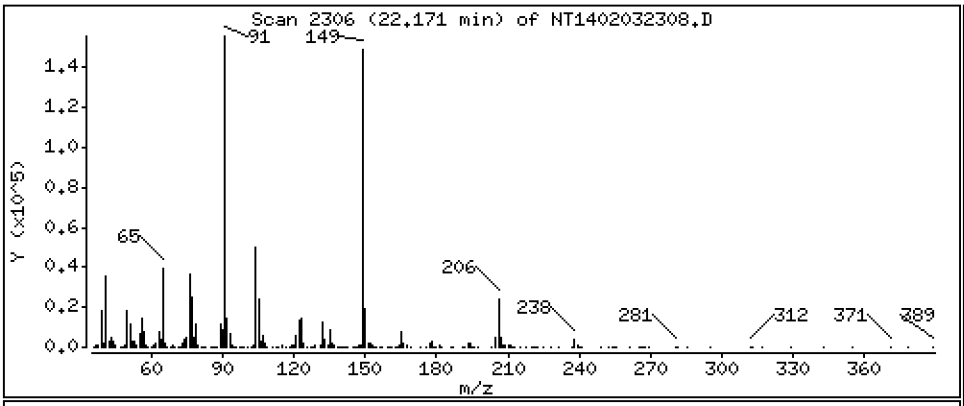
Operator: DSD

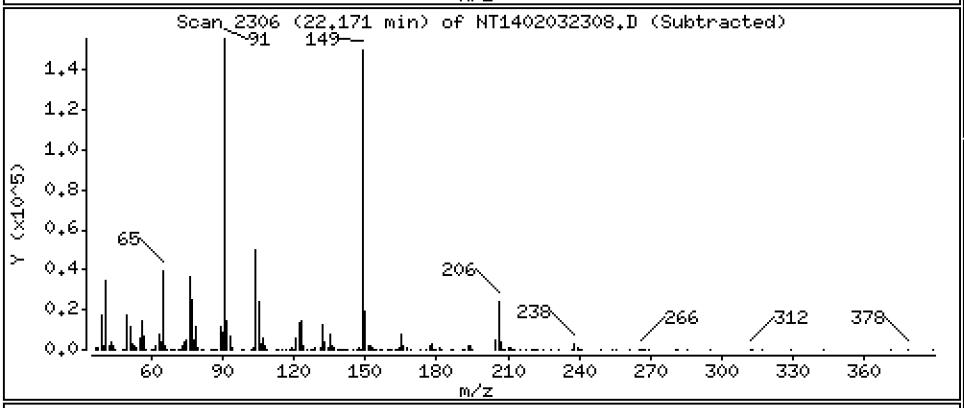
Column phase: ZB-5msi

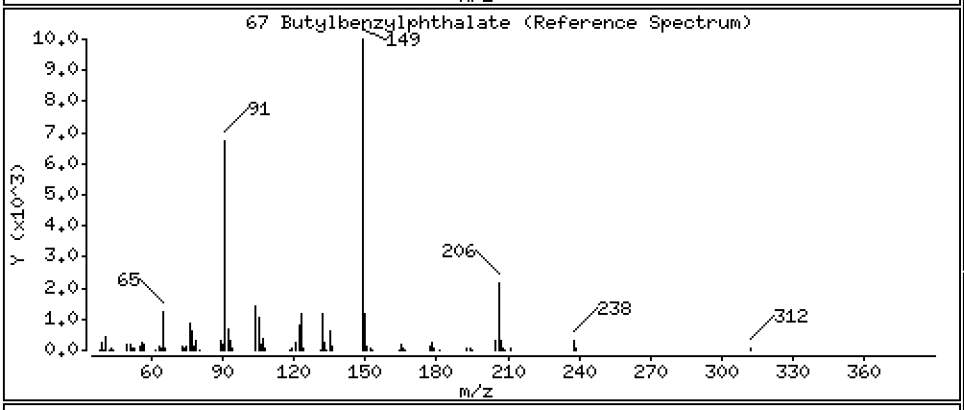
Column diameter: 0.25

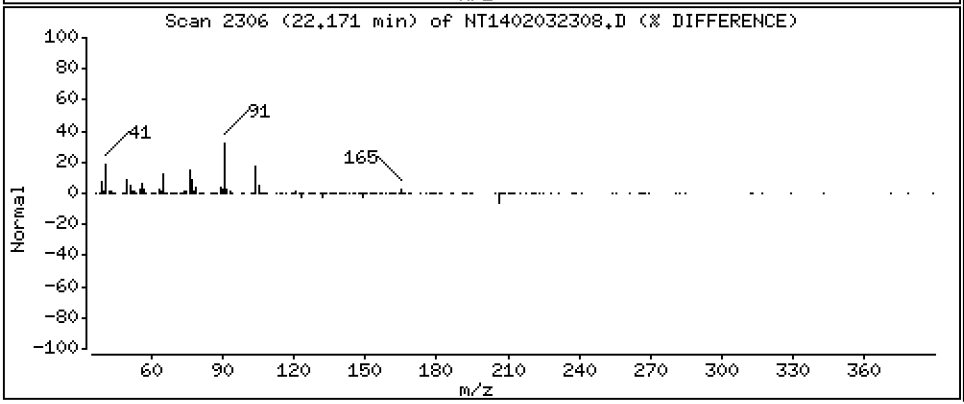
67 Butylbenzylphthalate

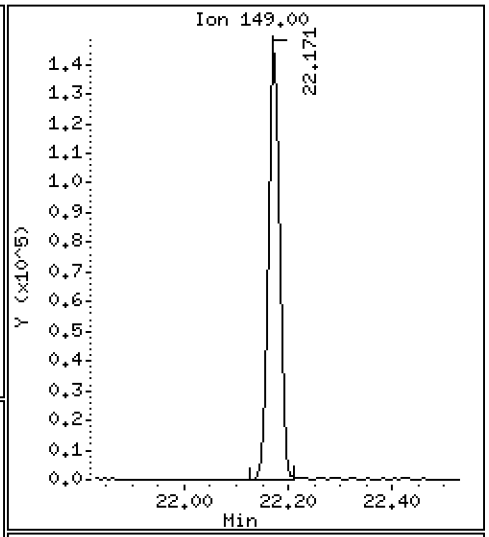
Concentration: 4.527 ug/mL

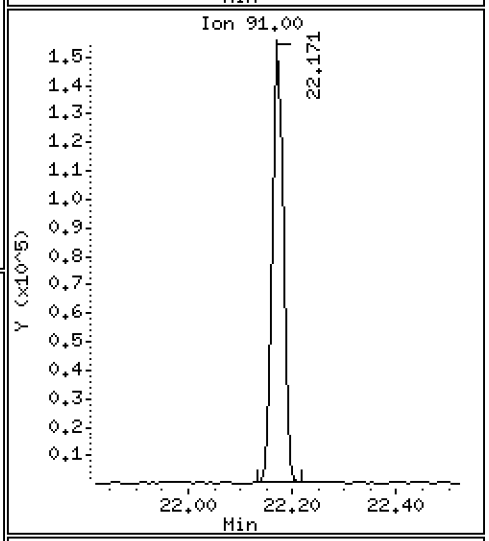


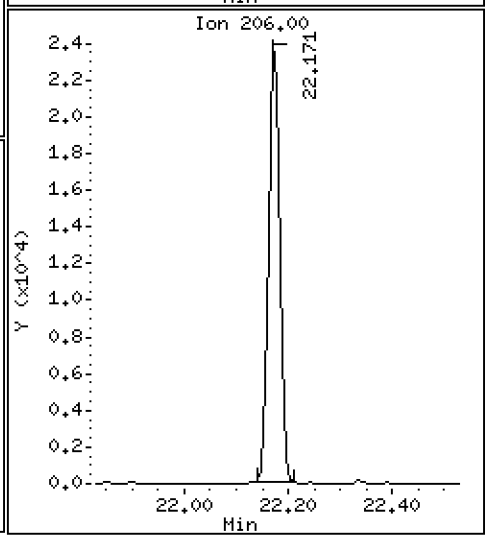












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

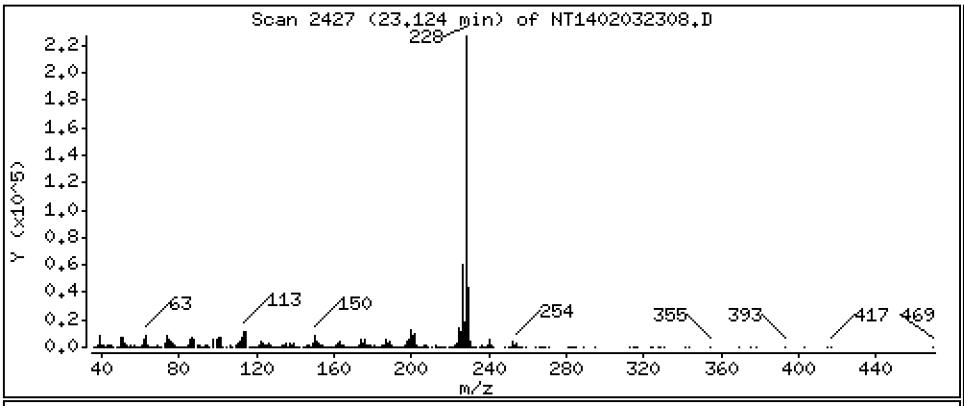
Operator: DSD

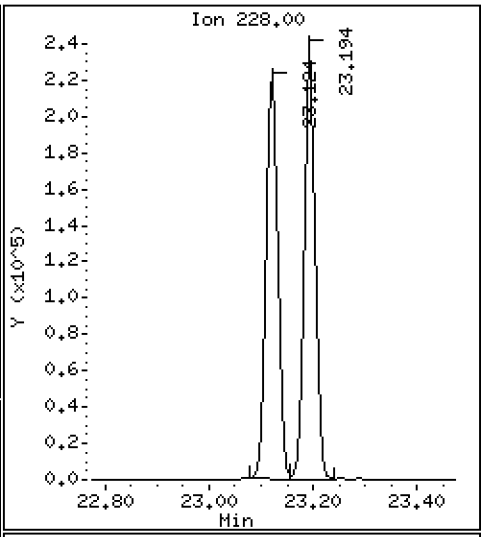
Column phase: ZB-5msi

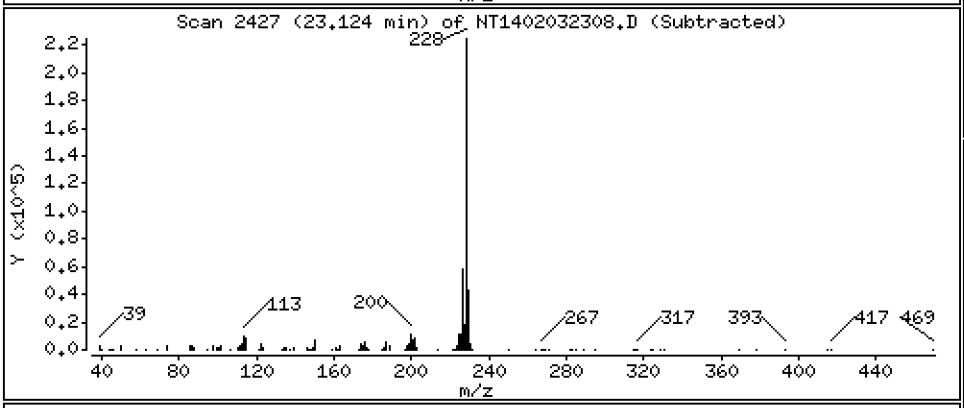
Column diameter: 0.25

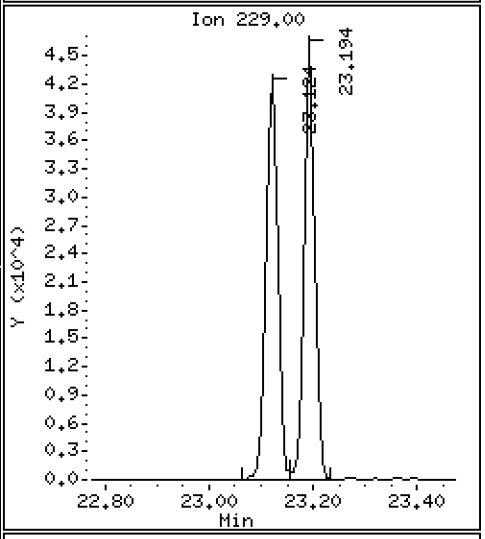
68 Benzo(a)anthracene

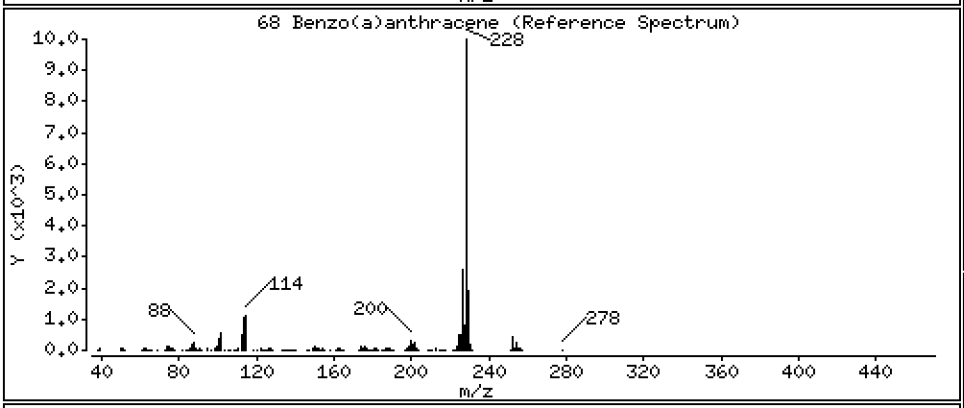
Concentration: 4.189 ug/mL

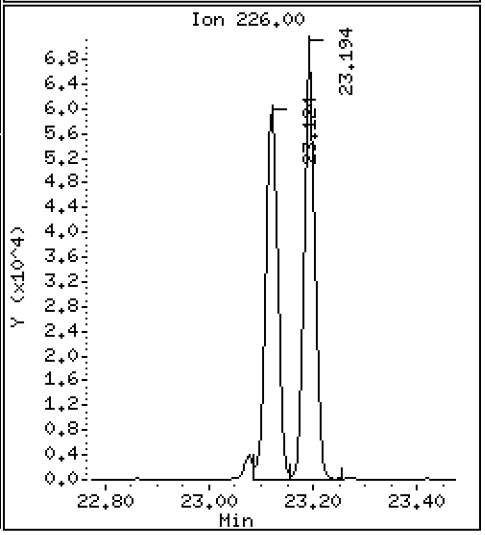


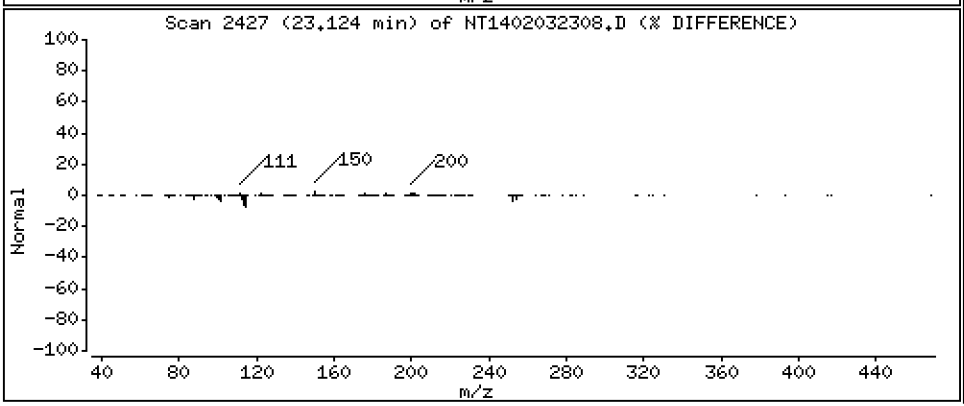












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

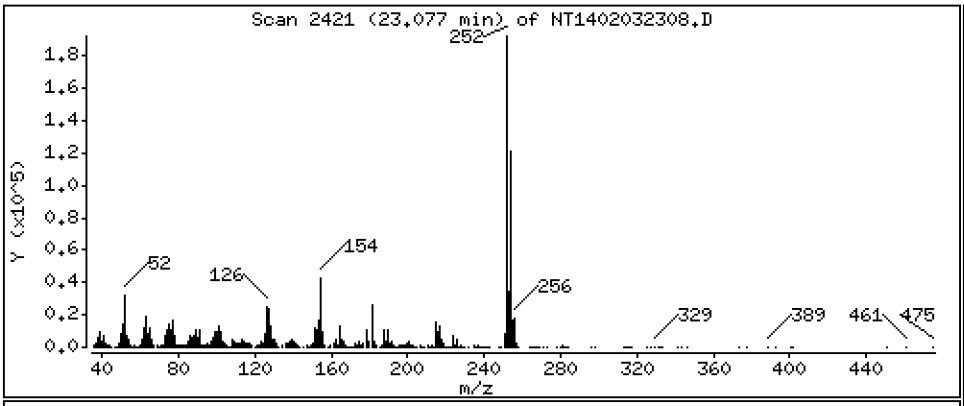
Operator: DSD

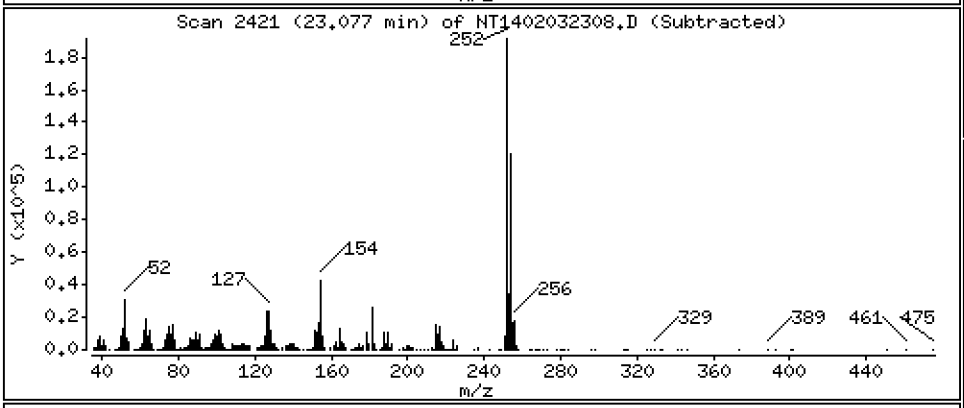
Column phase: ZB-5msi

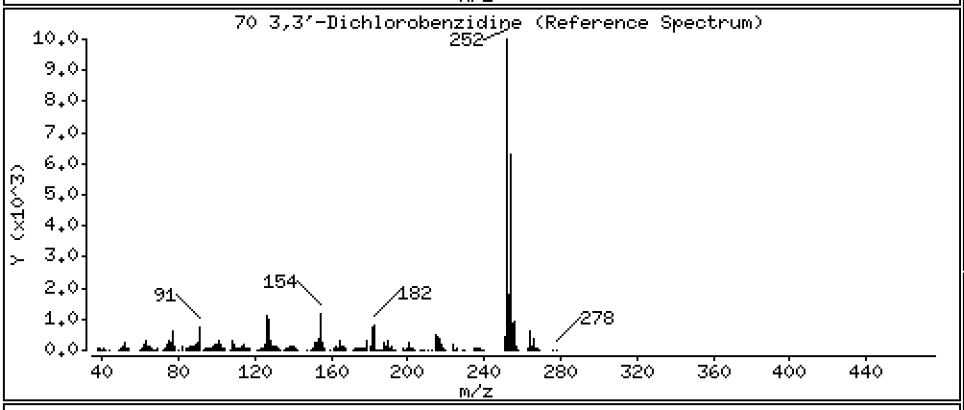
Column diameter: 0.25

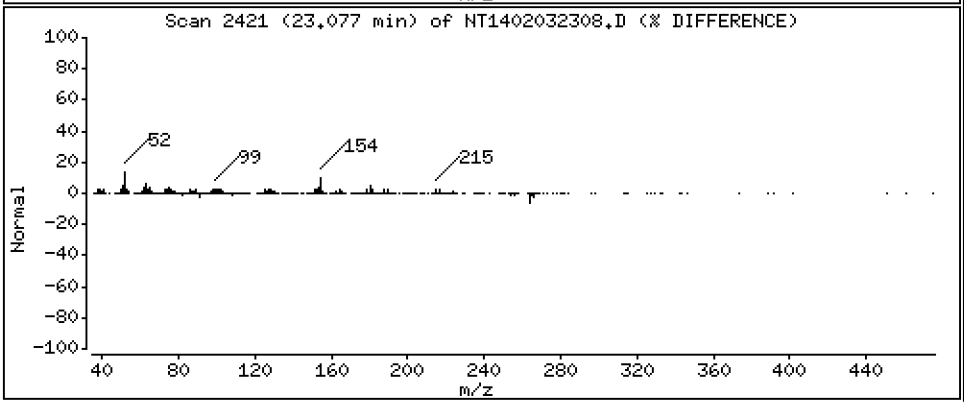
70 3,3'-Dichlorobenzidine

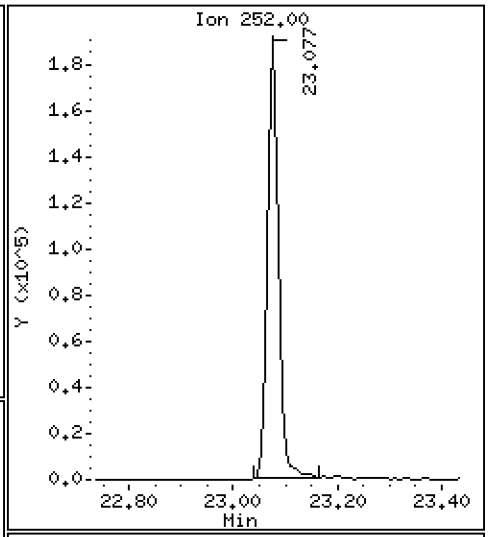
Concentration: 7.316 ug/mL

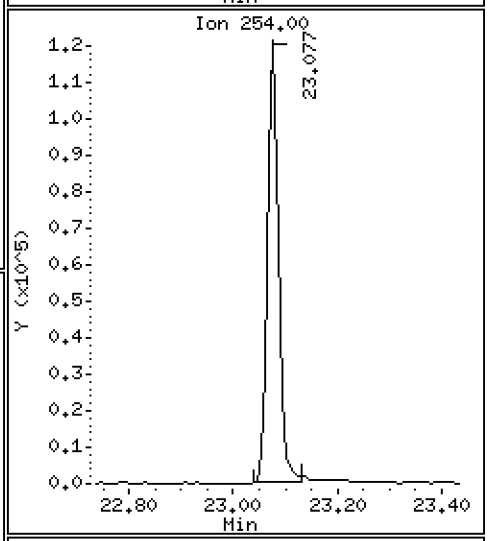


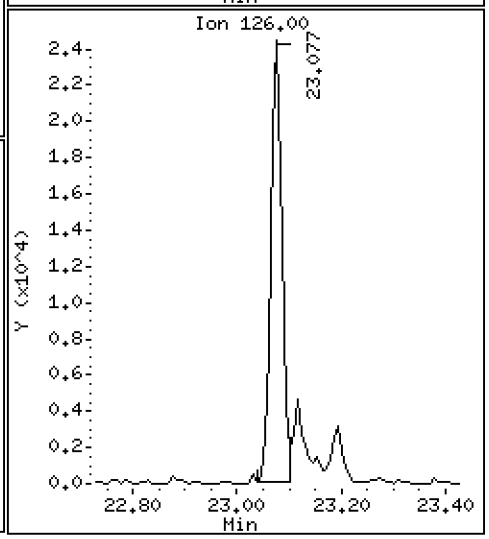












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

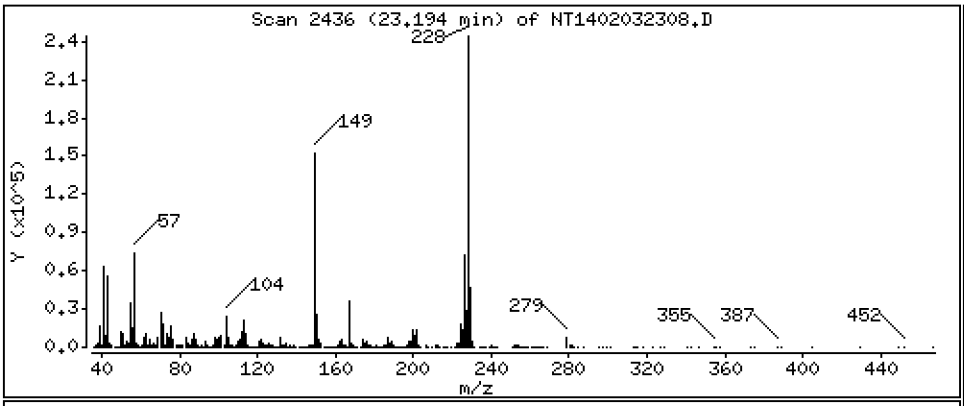
Operator: DSD

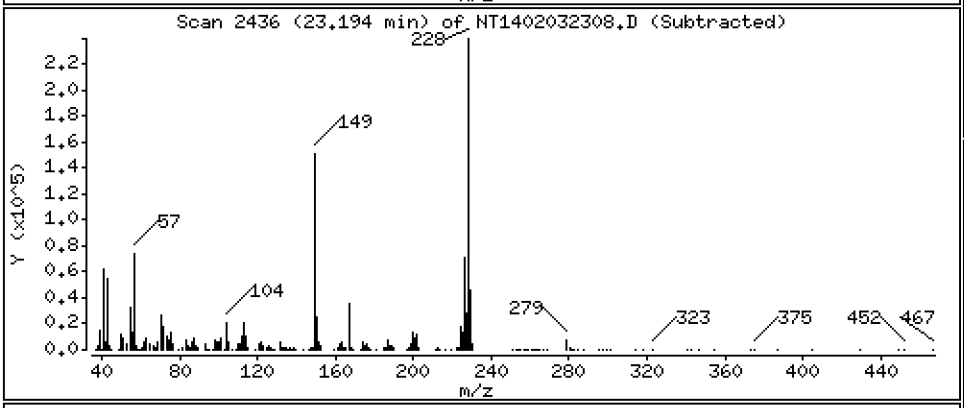
Column phase: ZB-5msi

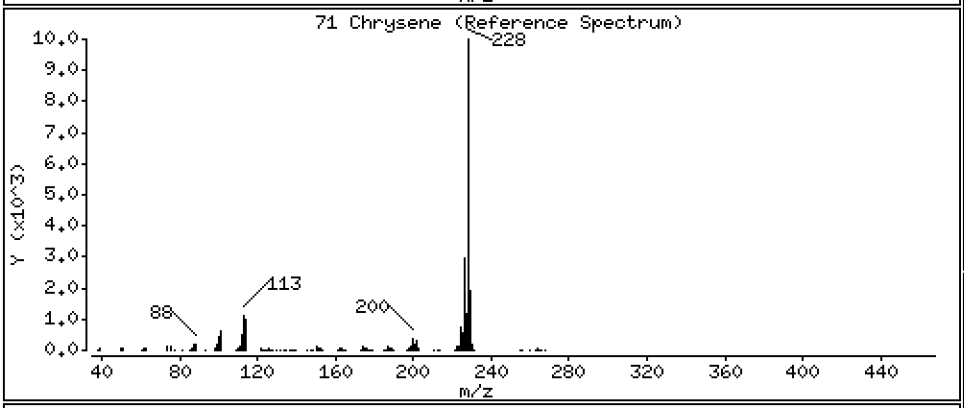
Column diameter: 0.25

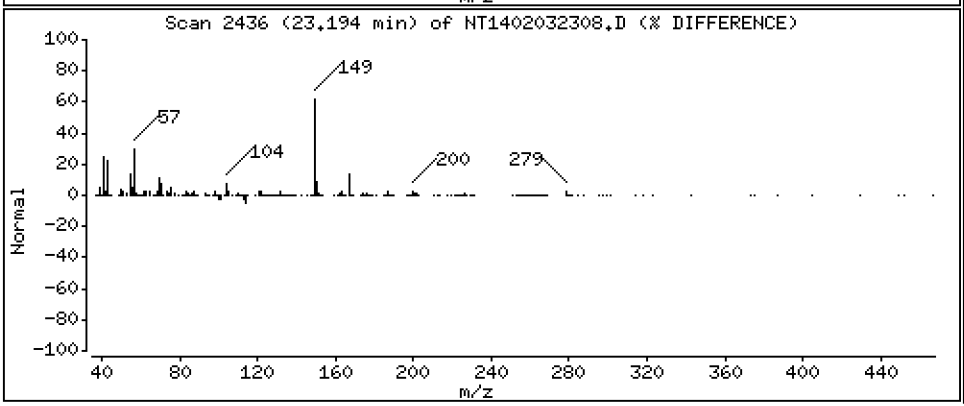
71 Chrysene

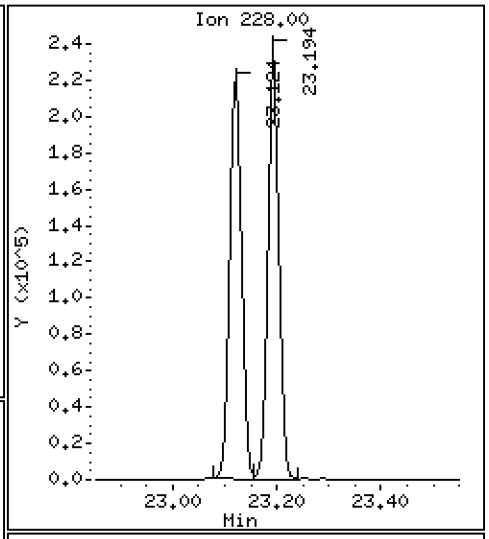
Concentration: 4.224 ug/mL

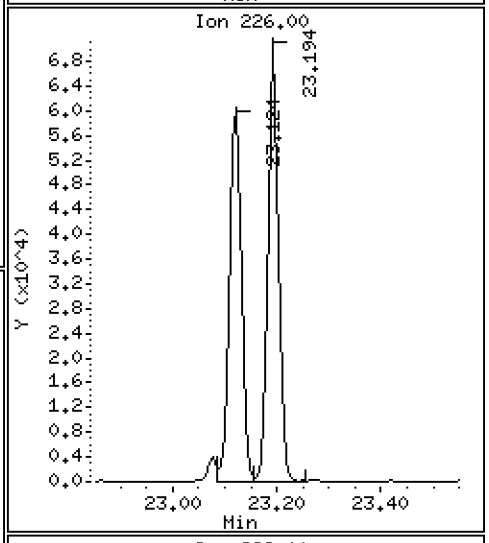


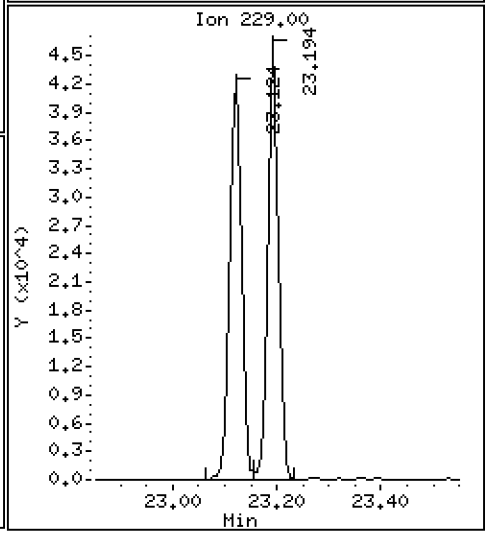












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

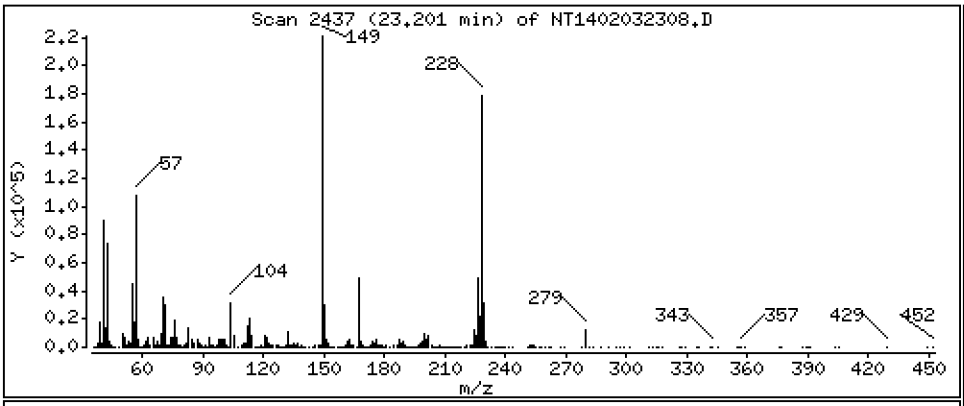
Operator: DSD

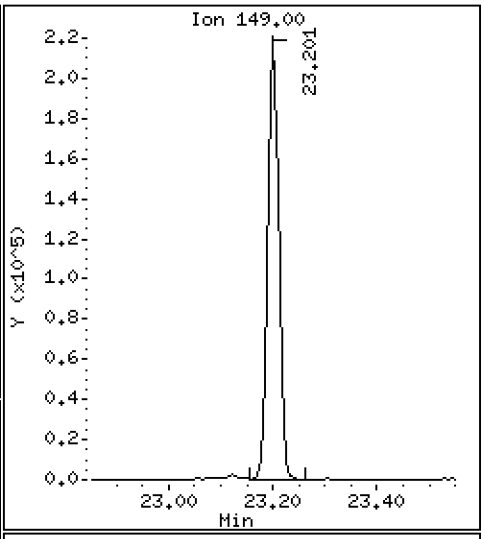
Column phase: ZB-5msi

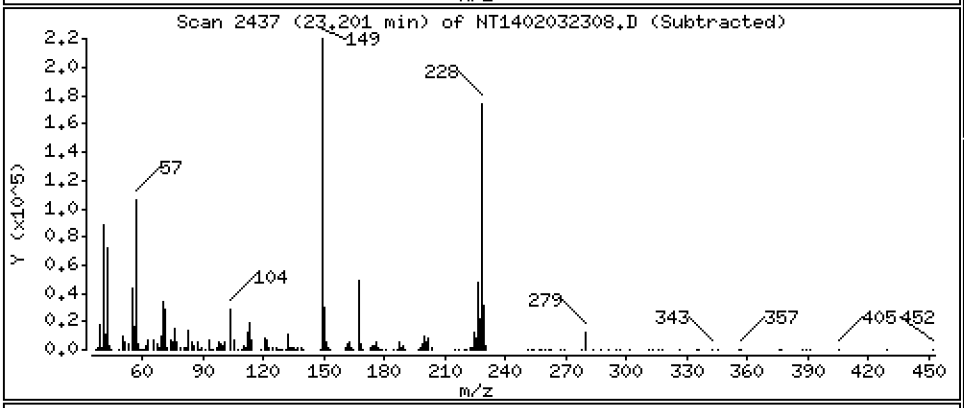
Column diameter: 0.25

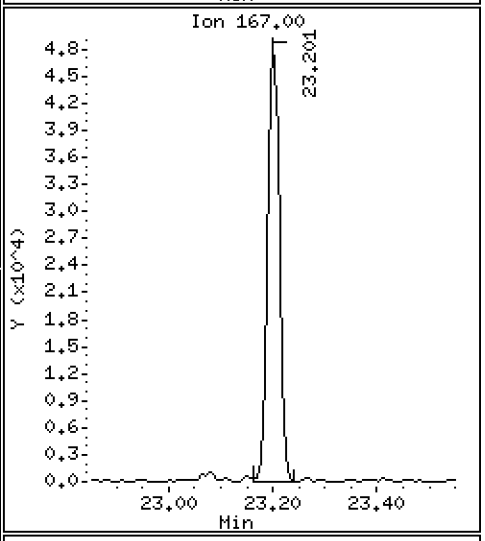
72 bis(2-Ethylhexyl)phthalate

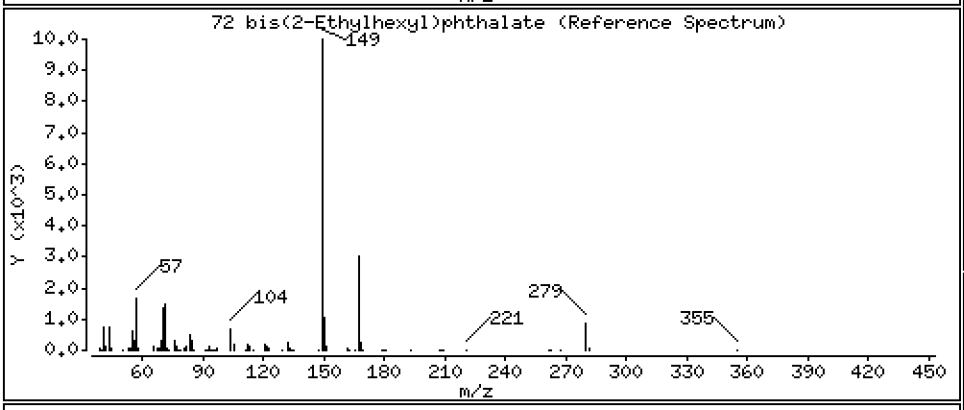
Concentration: 4.658 ug/mL

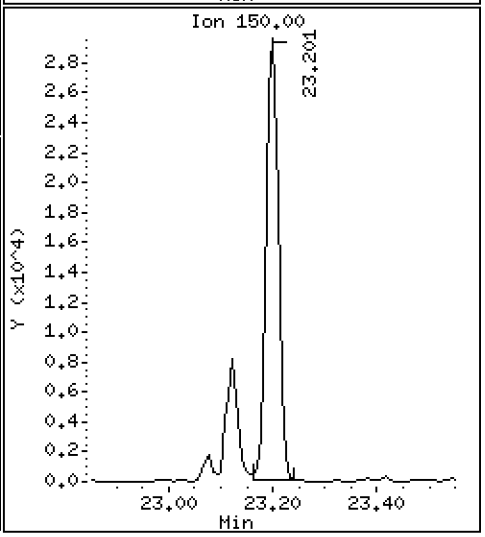


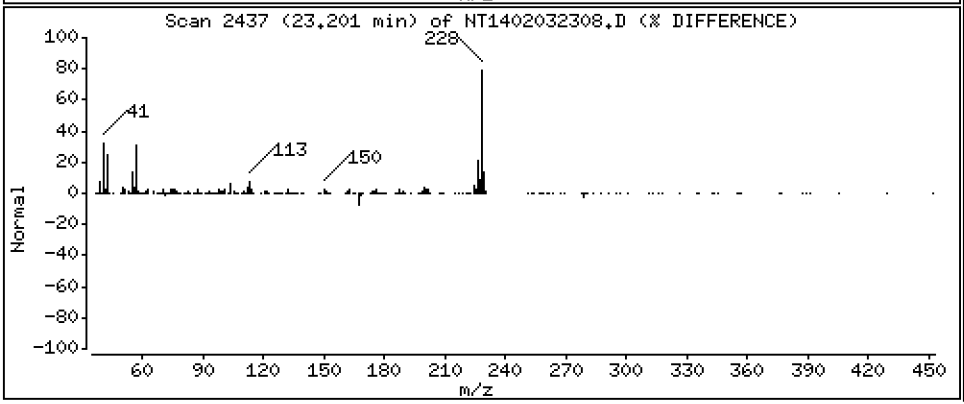












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

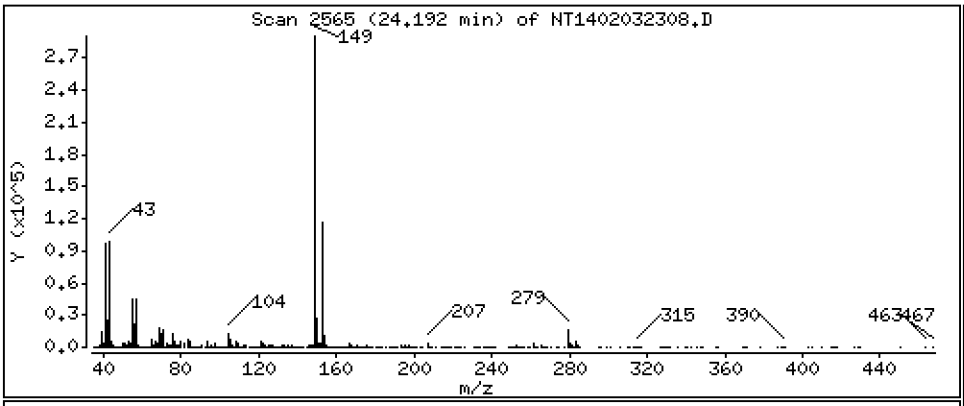
Operator: DSD

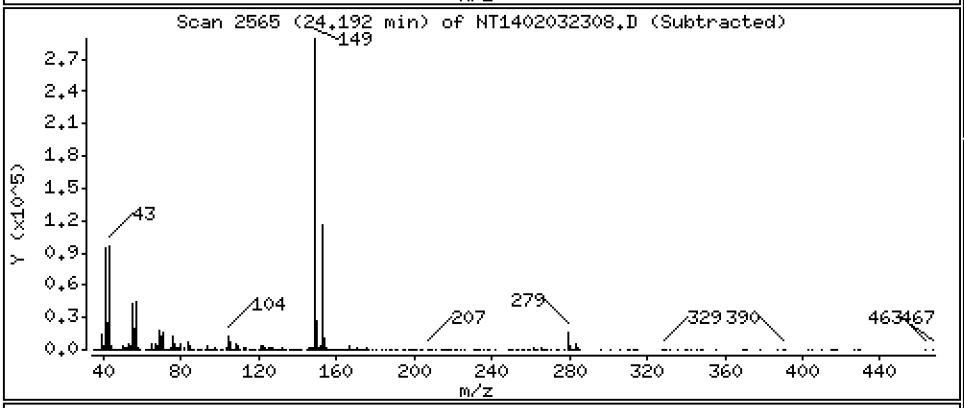
Column phase: ZB-5msi

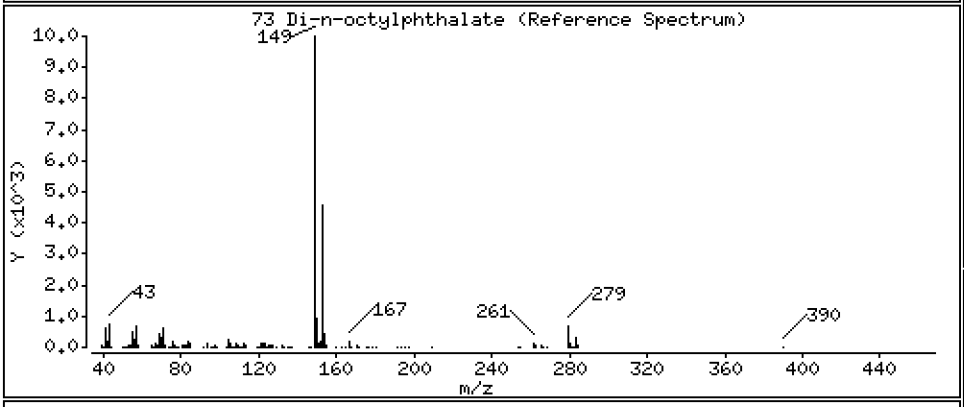
Column diameter: 0.25

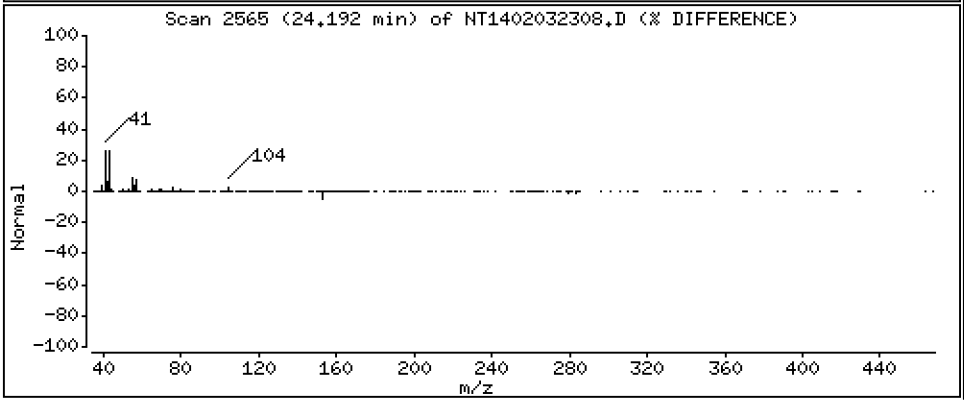
73 Di-n-octylphthalate

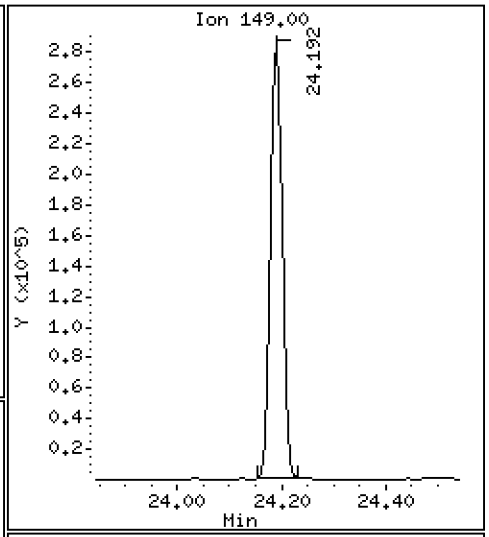
Concentration: 4.442 ug/mL

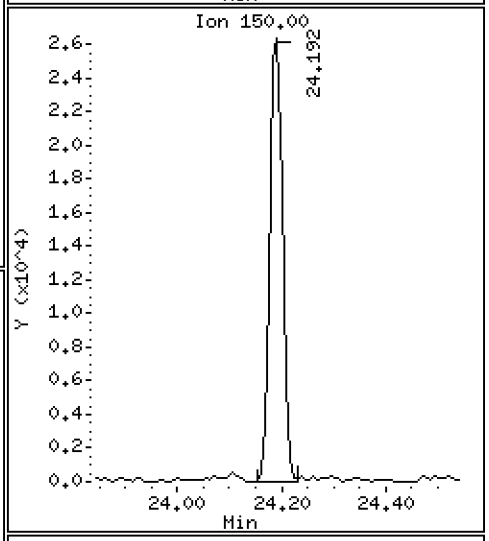


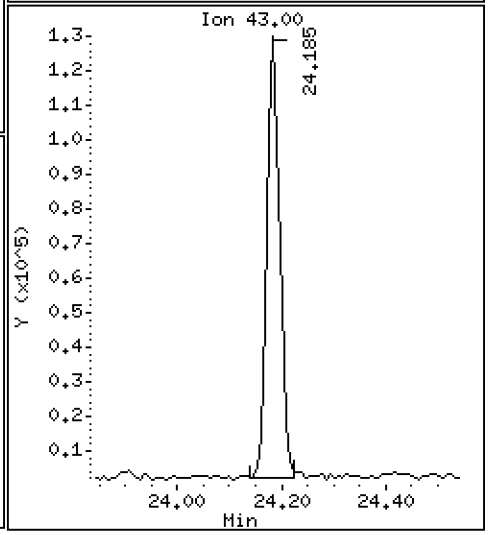












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

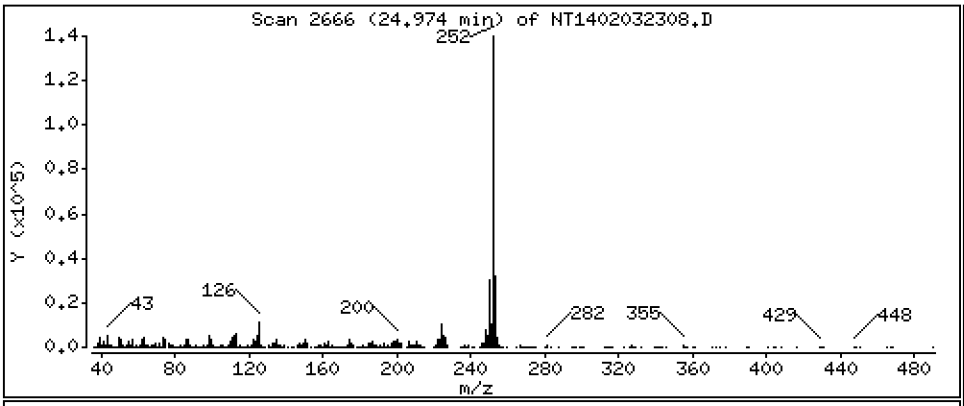
Operator: DSD

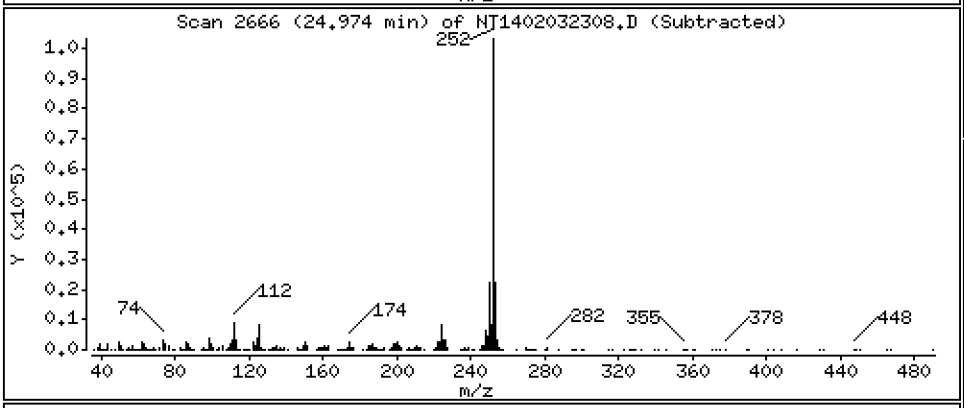
Column phase: ZB-5msi

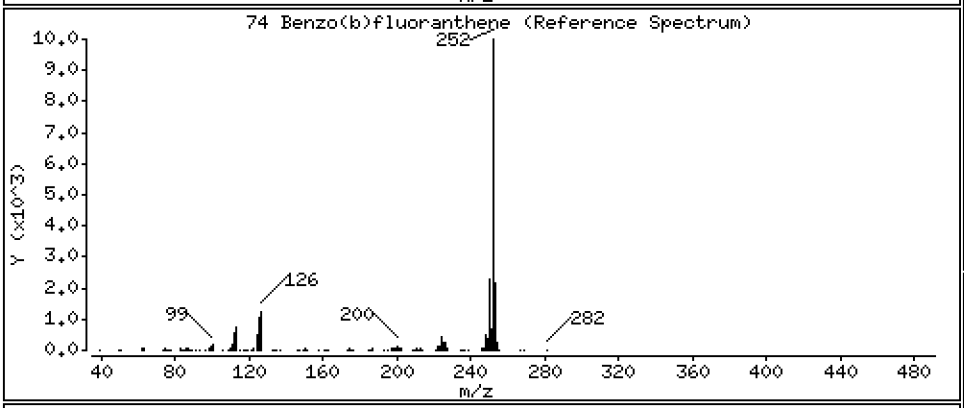
Column diameter: 0.25

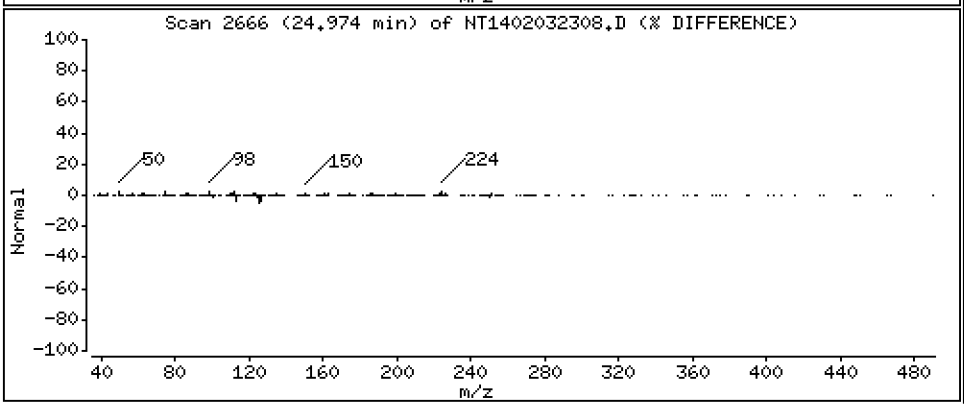
74 Benzo(b)fluoranthene

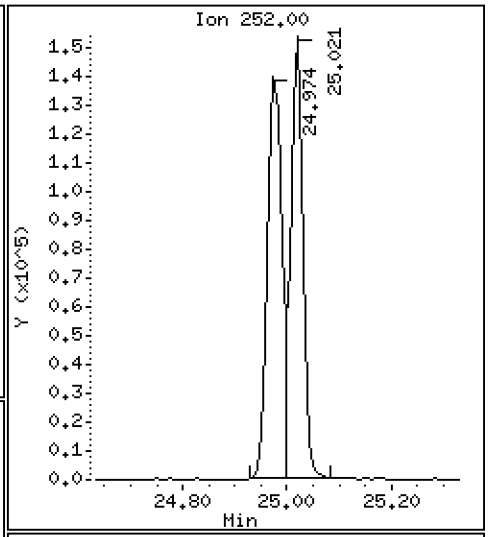
Concentration: 4.543 ug/mL

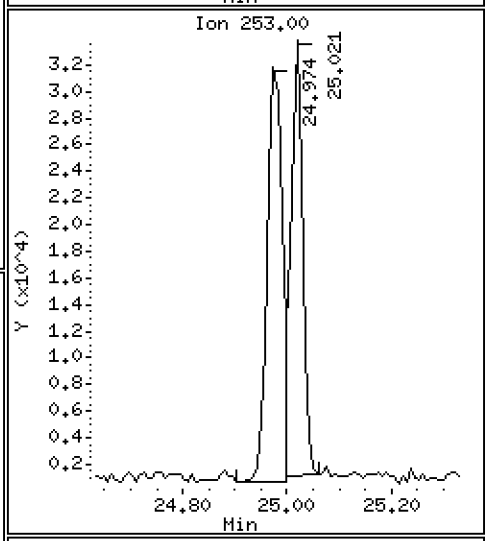


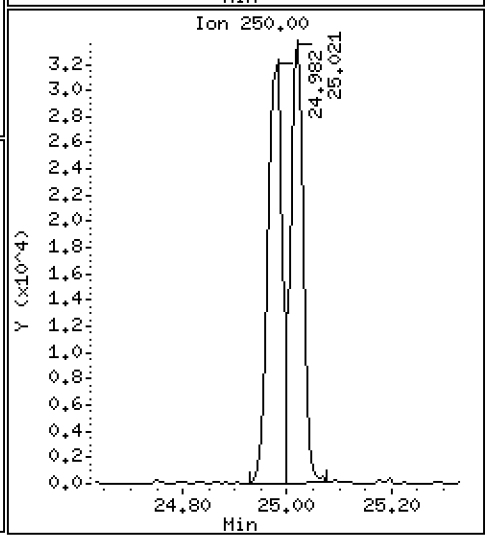












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

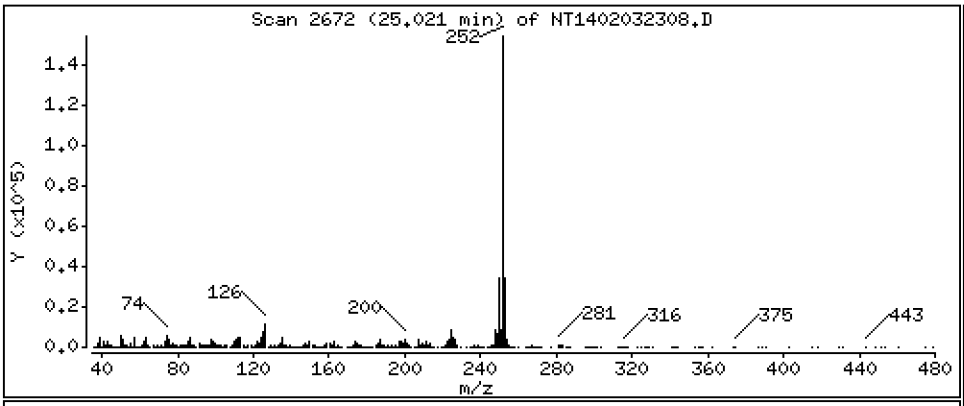
Operator: DSD

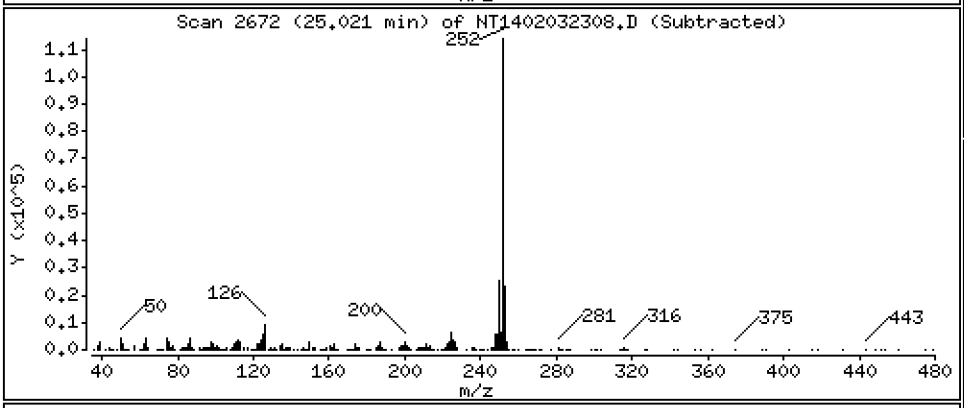
Column phase: ZB-5msi

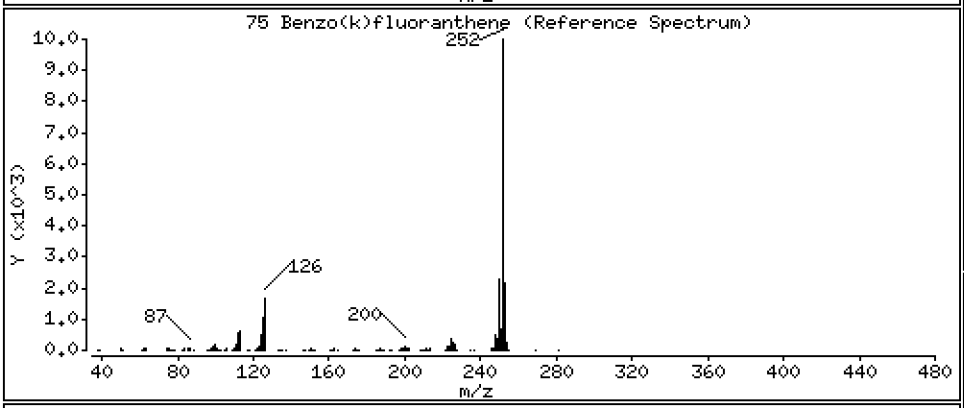
Column diameter: 0.25

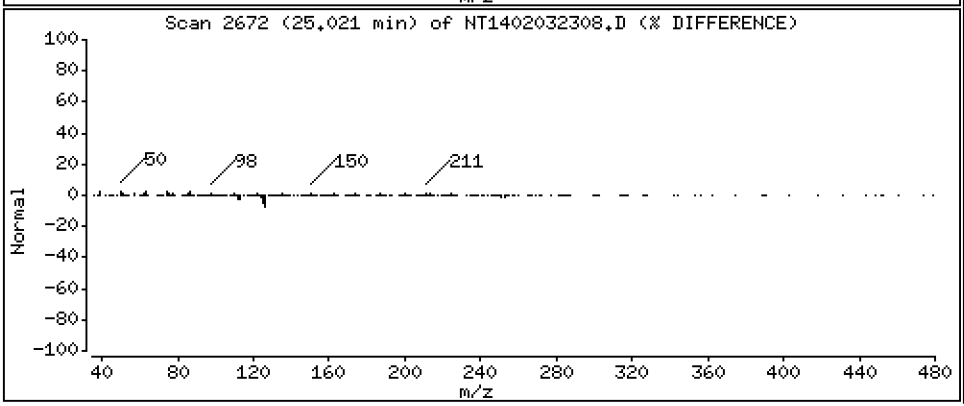
75 Benzo(k)fluoranthene

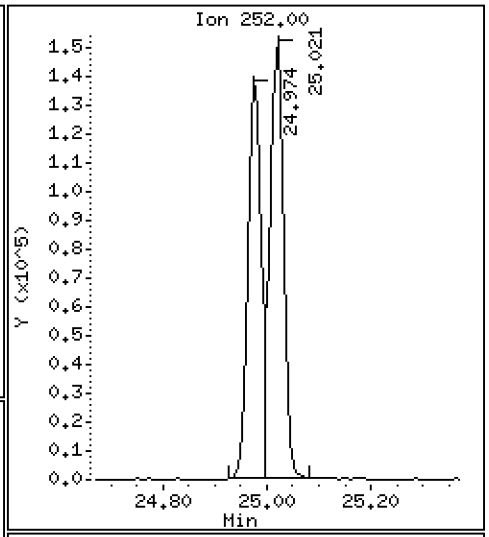
Concentration: 4.541 ug/mL

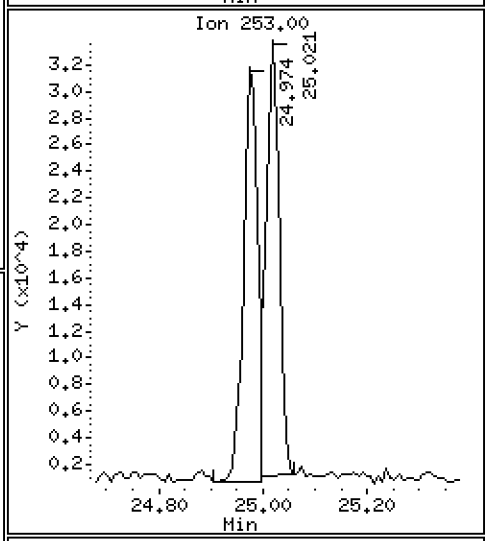


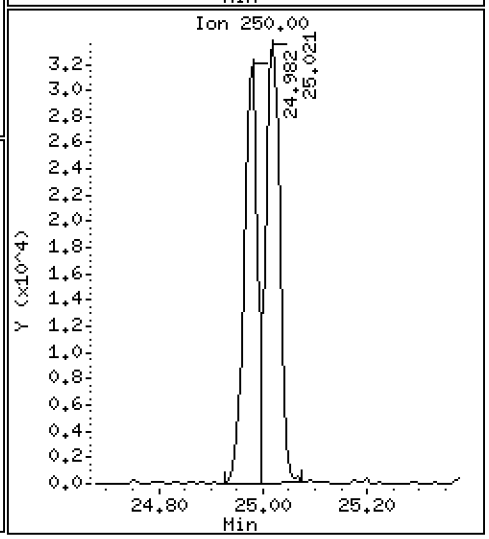












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

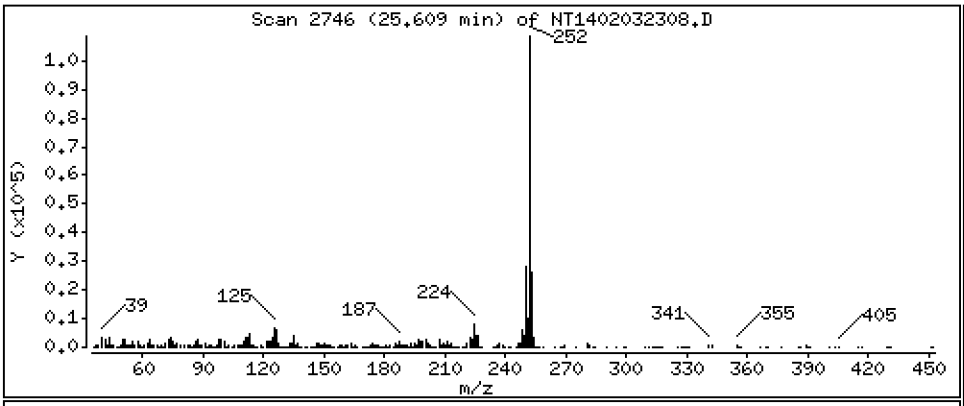
Operator: DSD

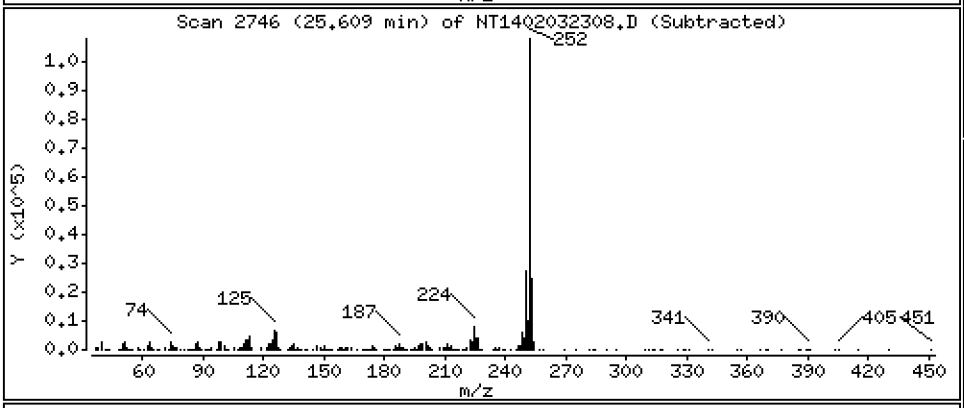
Column phase: ZB-5msi

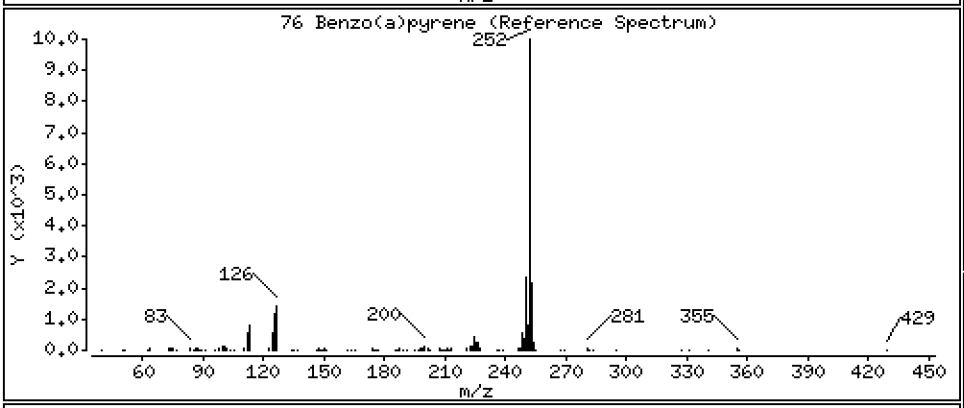
Column diameter: 0.25

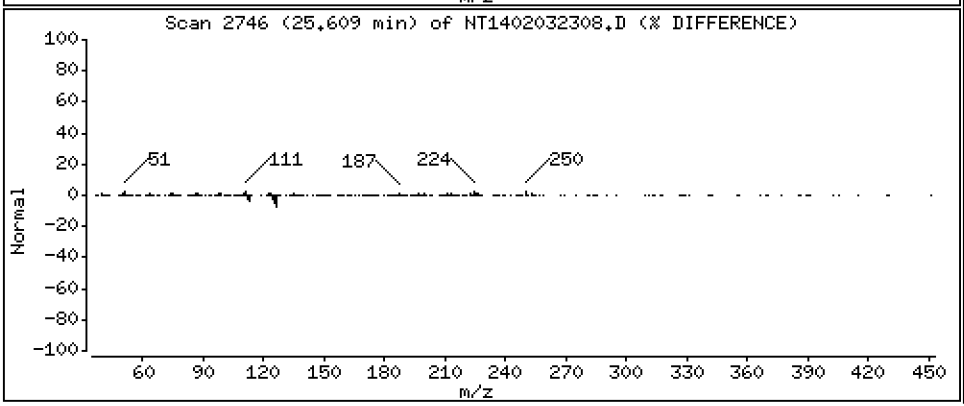
76 Benzo(a)pyrene

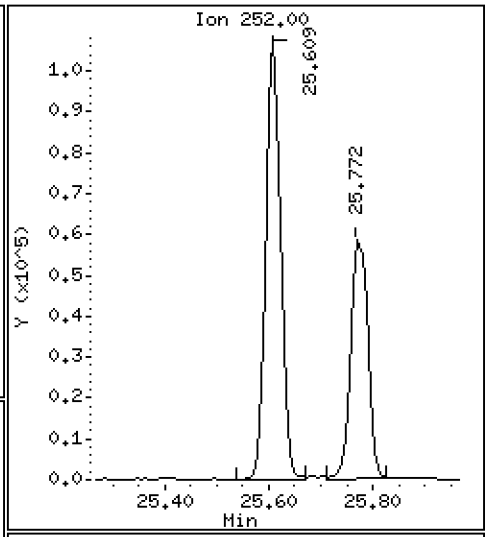
Concentration: 4.186 ug/mL

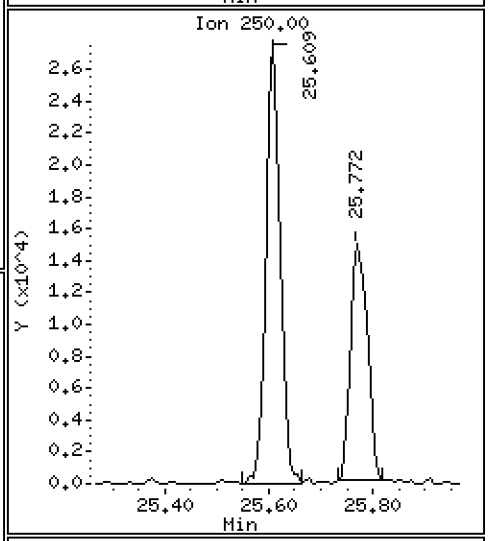


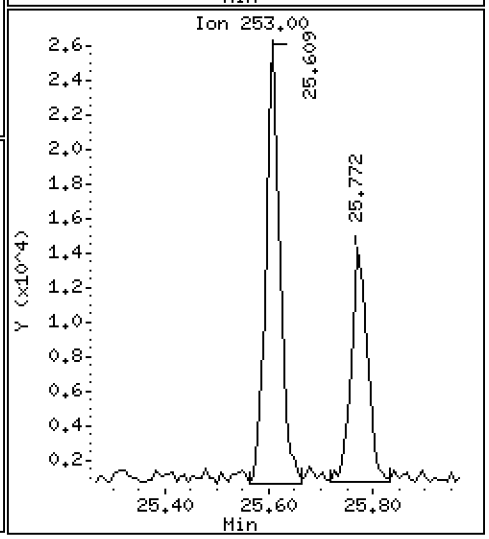












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

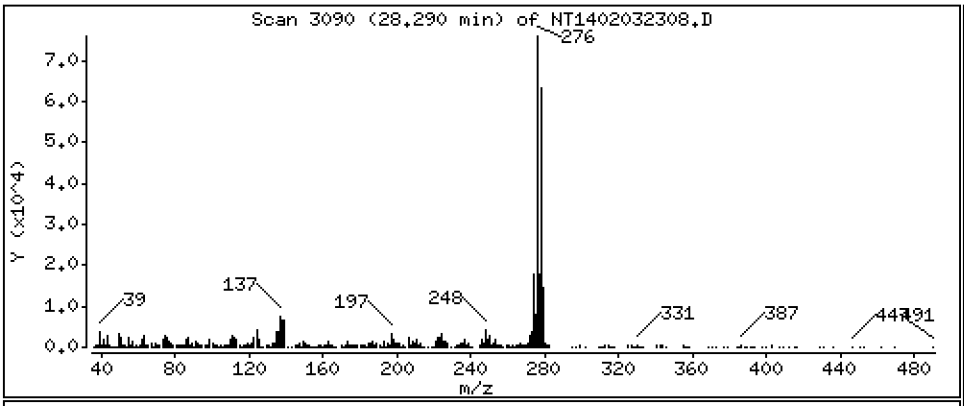
Operator: DSD

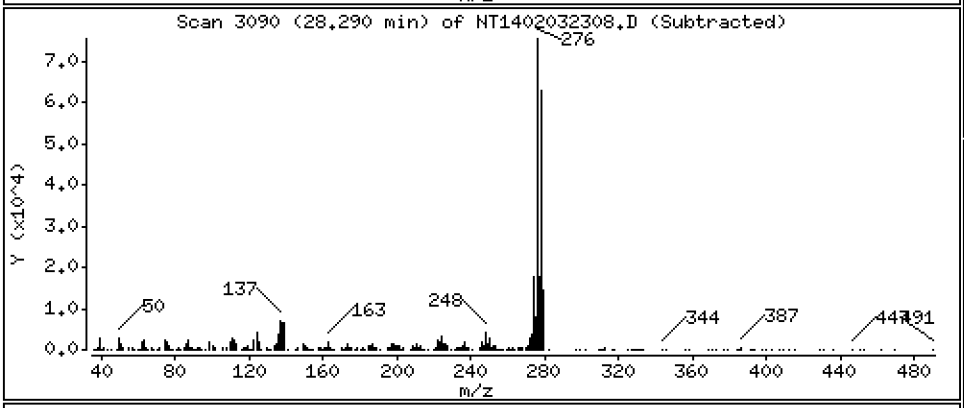
Column phase: ZB-5msi

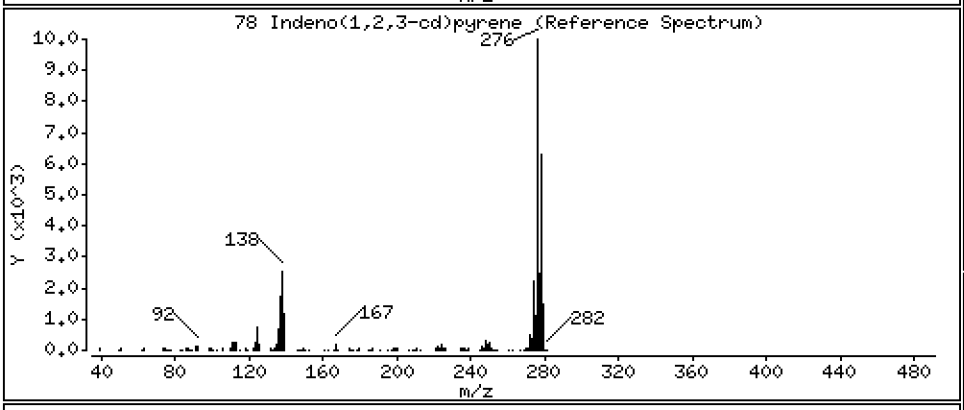
Column diameter: 0.25

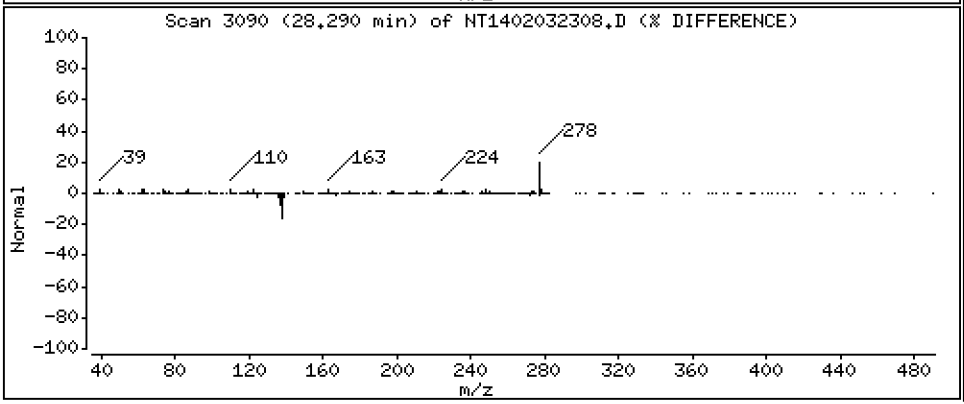
78 Indeno(1,2,3-cd)pyrene

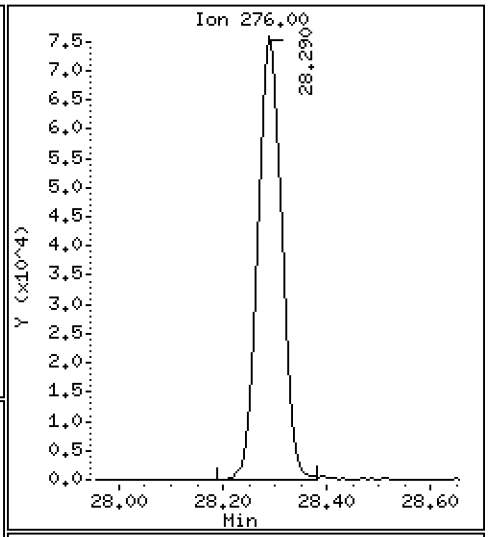
Concentration: 3.865 ug/mL

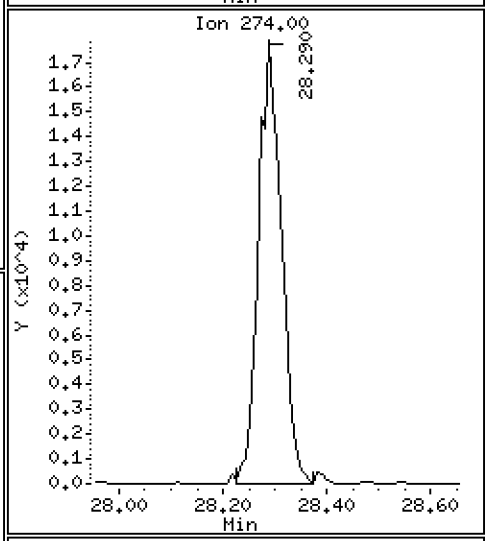


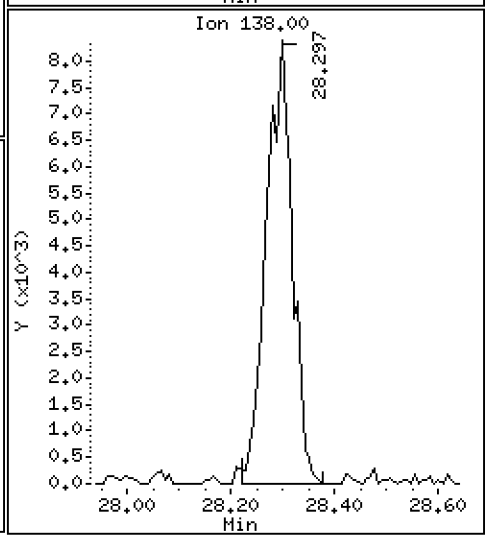












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

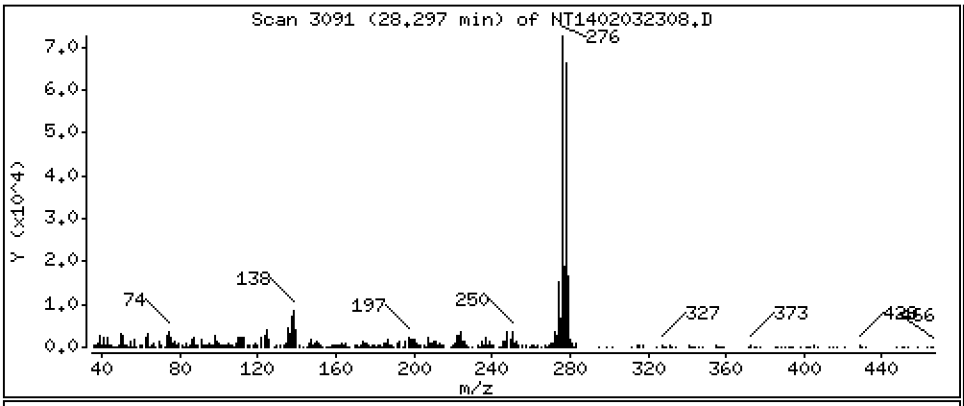
Operator: DSD

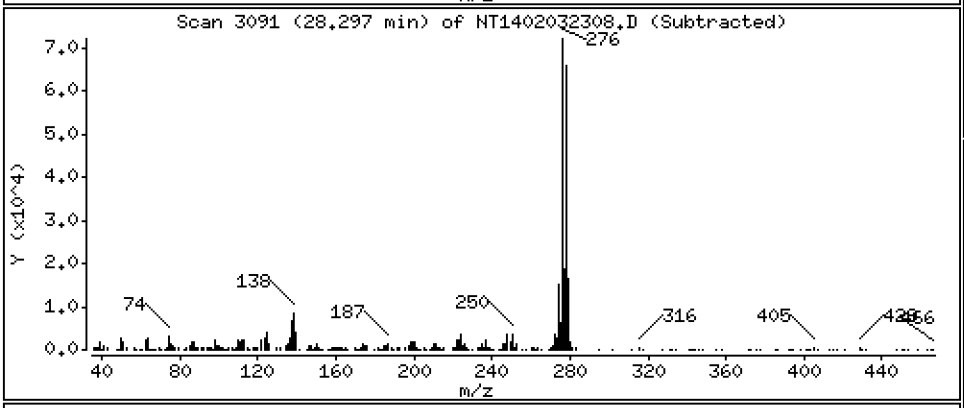
Column phase: ZB-5msi

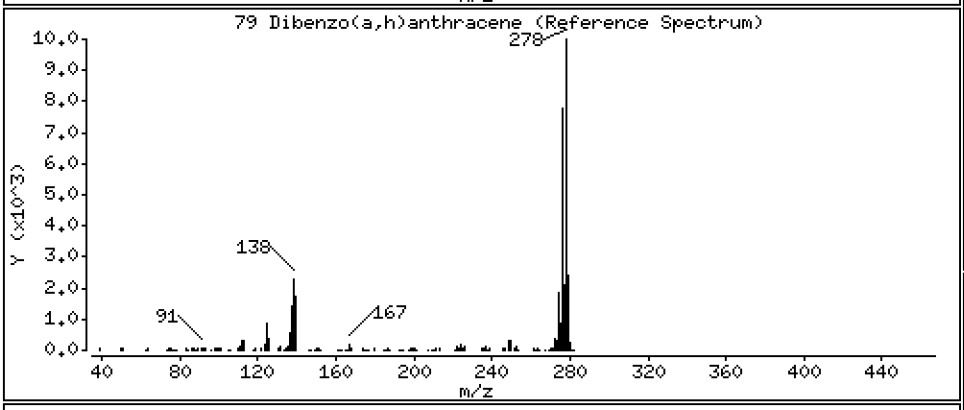
Column diameter: 0.25

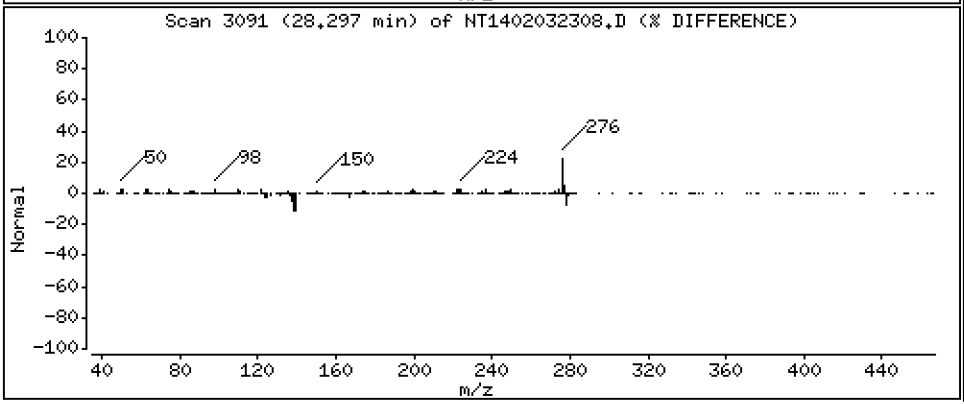
79 Dibenzo(a,h)anthracene

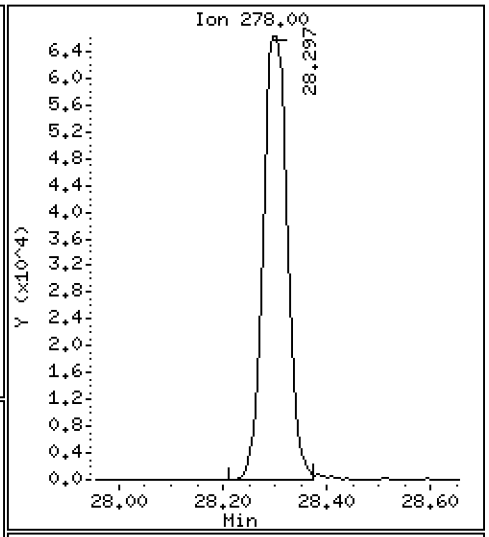
Concentration: 3.905 ug/mL

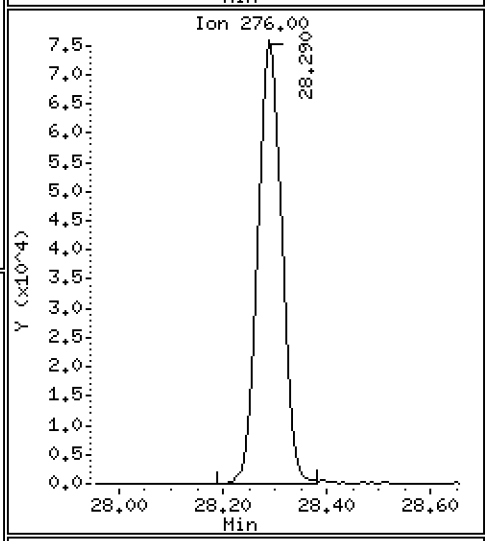


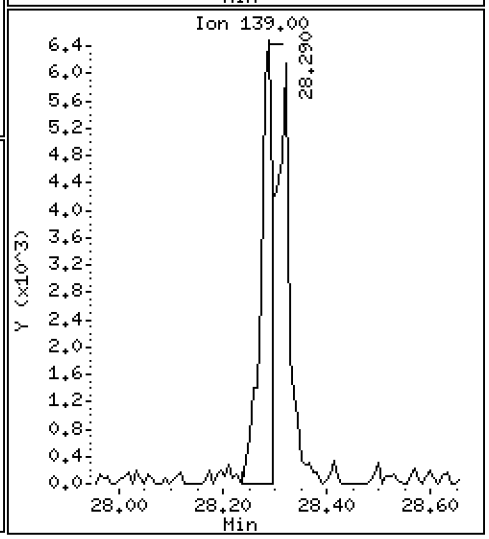












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

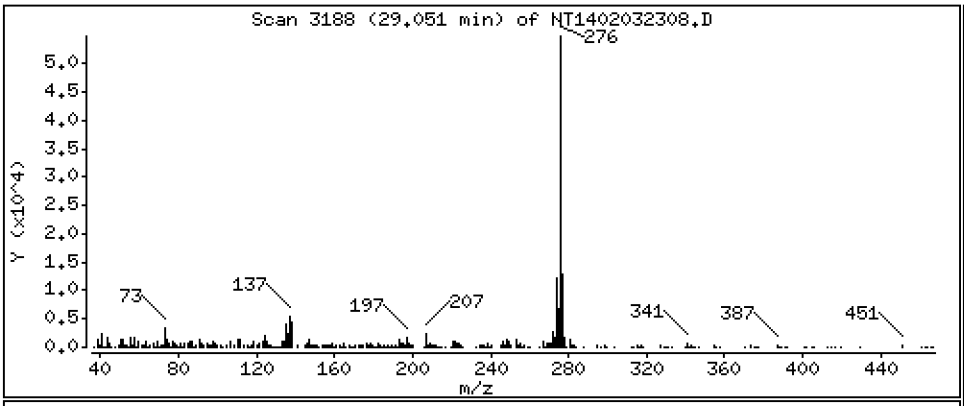
Operator: DSD

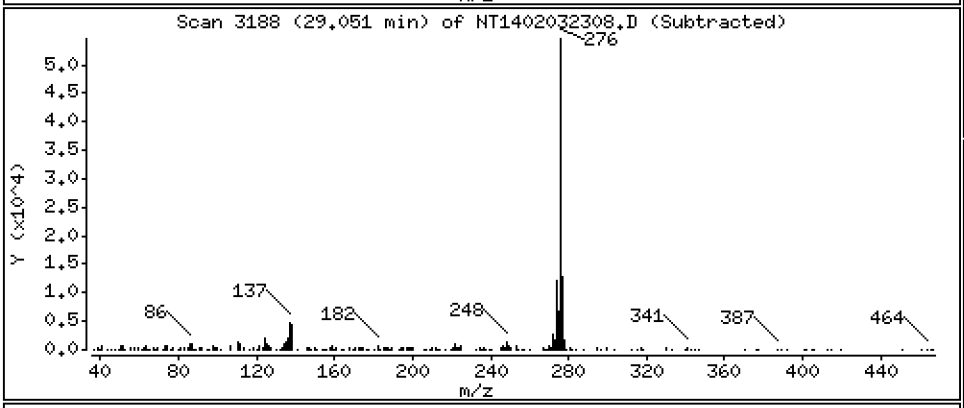
Column phase: ZB-5msi

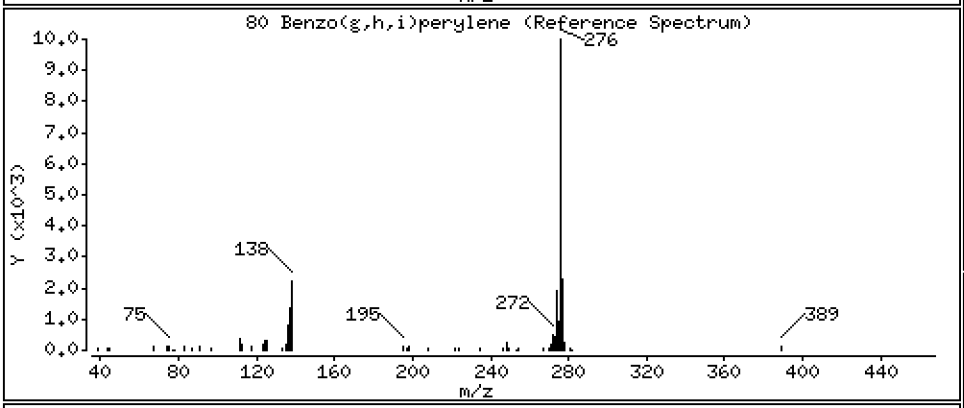
Column diameter: 0.25

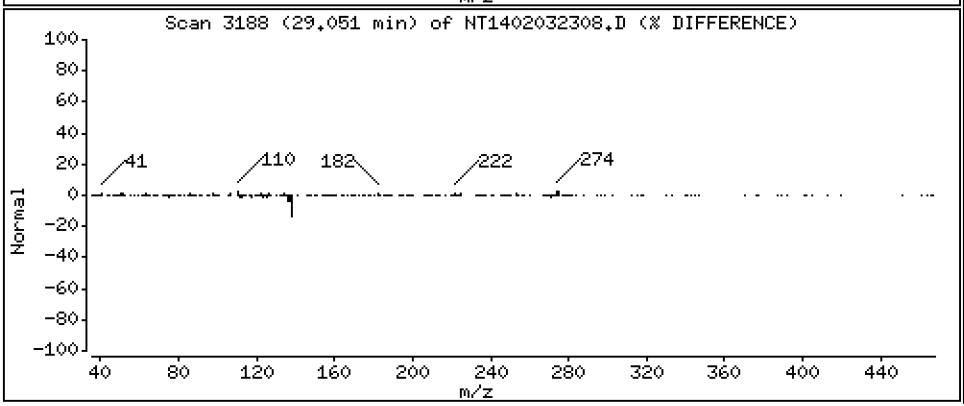
80 Benzo(g,h,i)perylene

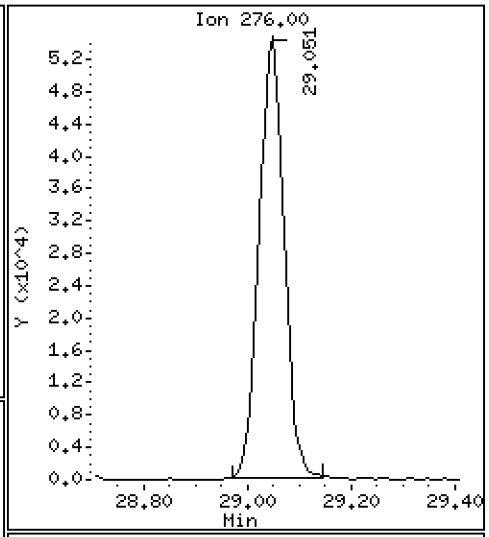
Concentration: 3.865 ug/mL

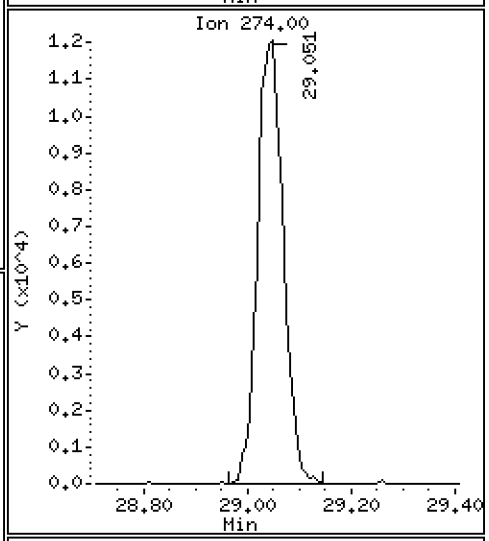


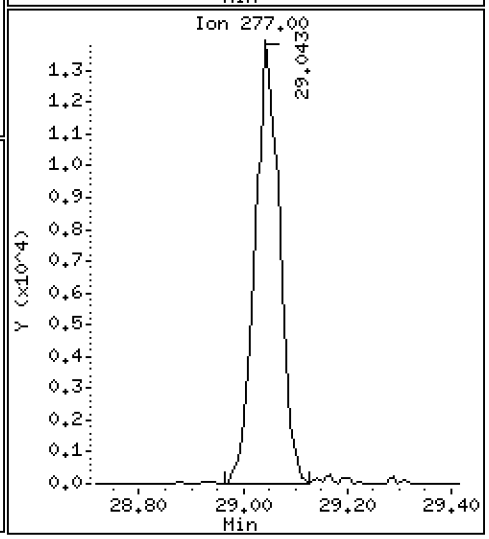












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

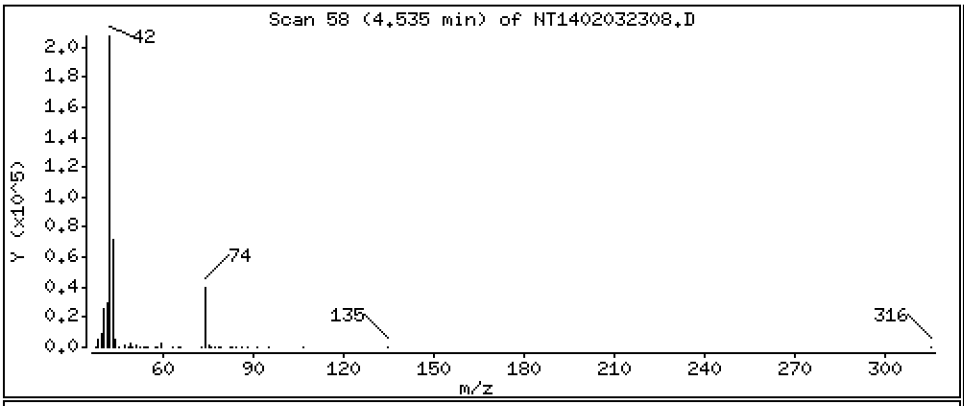
Operator: DSD

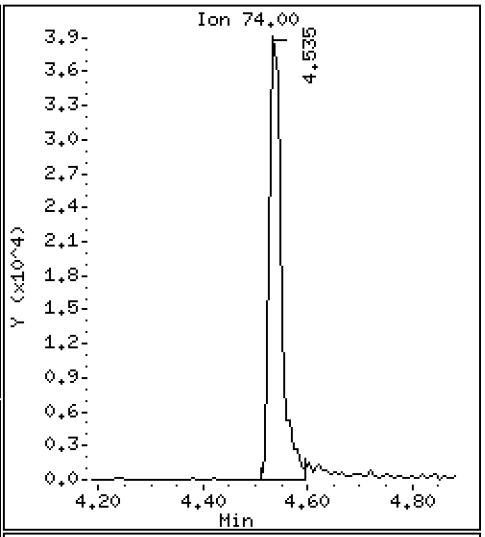
Column phase: ZB-5msi

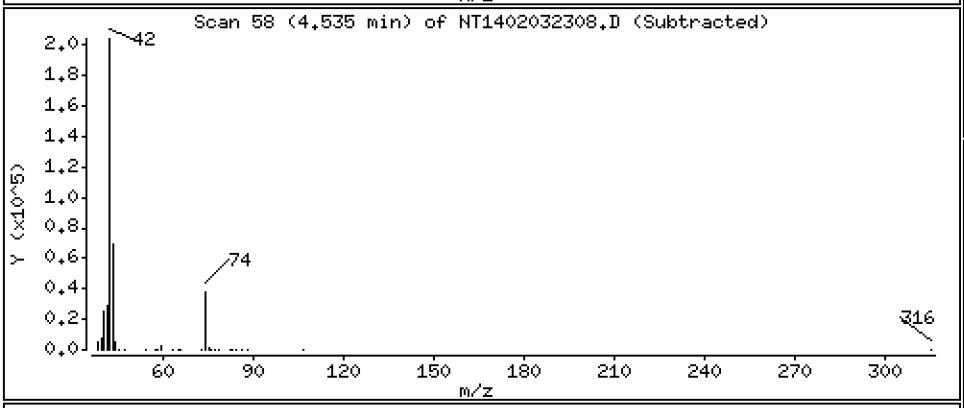
Column diameter: 0.25

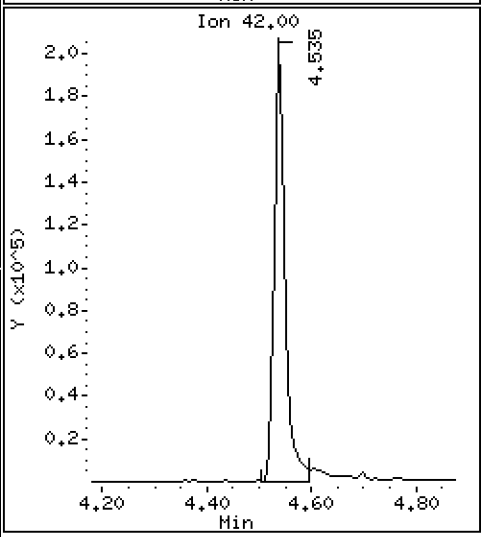
90 N-Nitrosodimethylamine

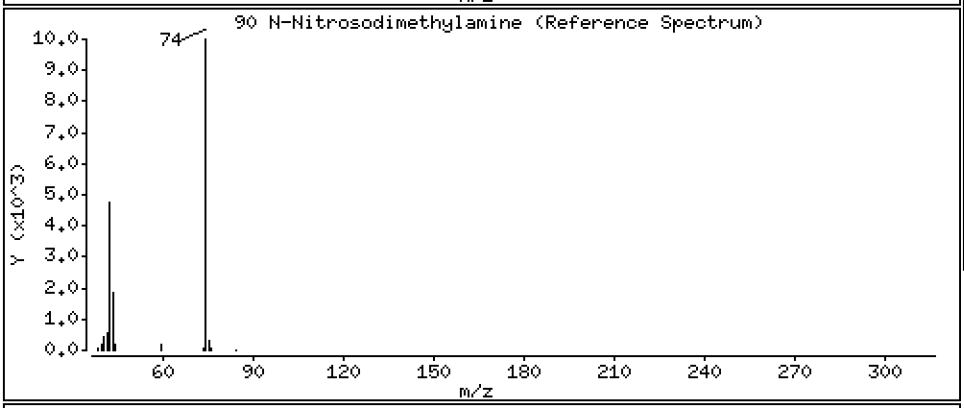
Concentration: 6.080 ug/mL

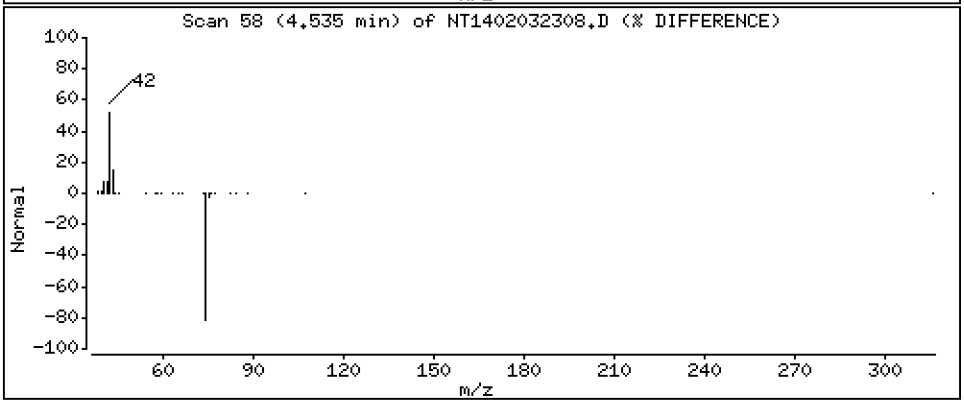












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

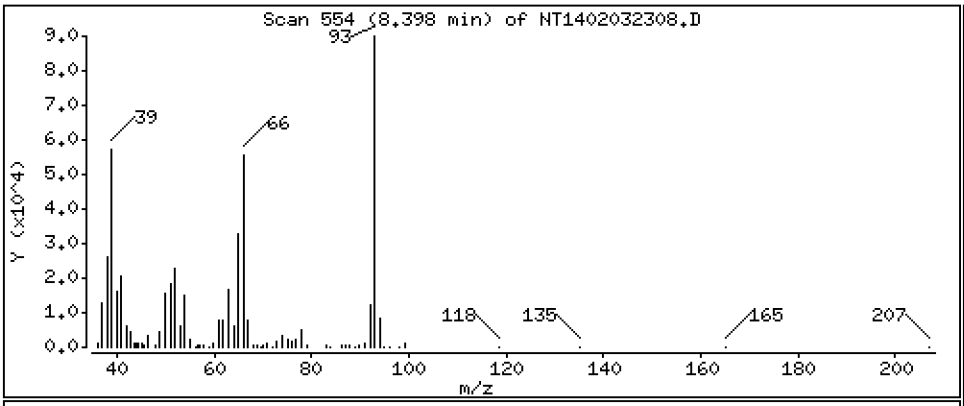
Operator: DSD

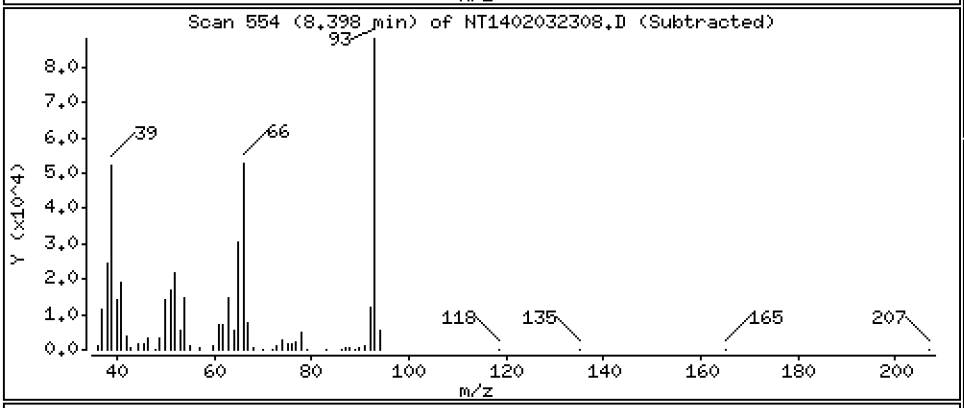
Column phase: ZB-5msi

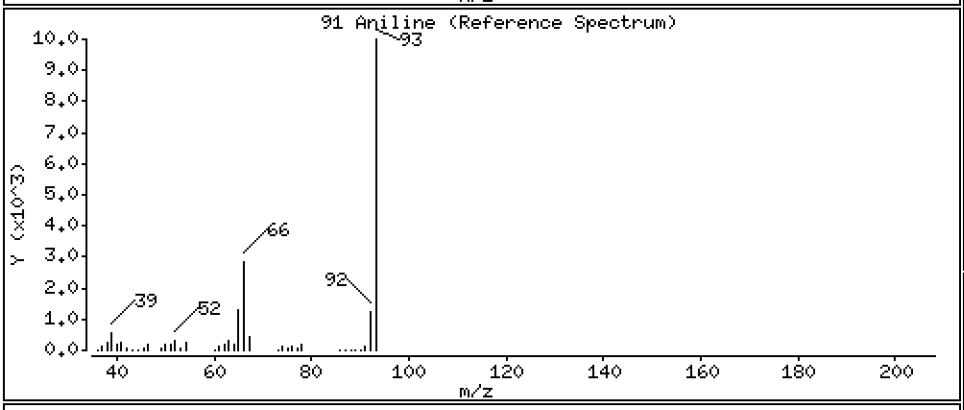
Column diameter: 0.25

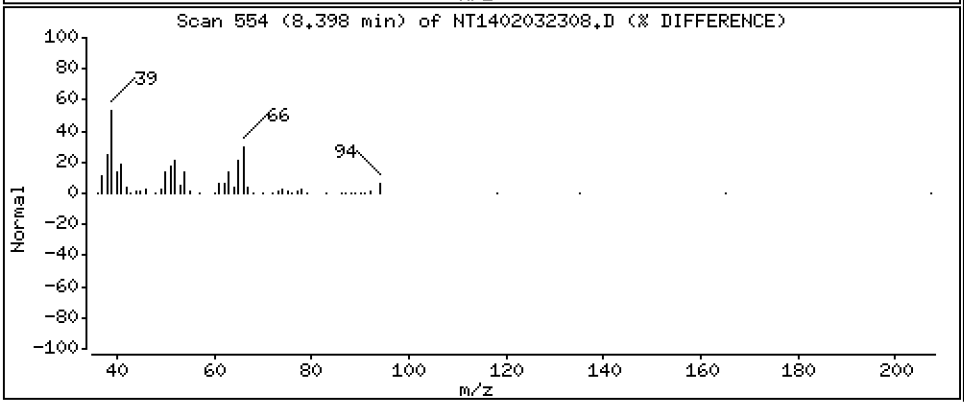
91 Aniline

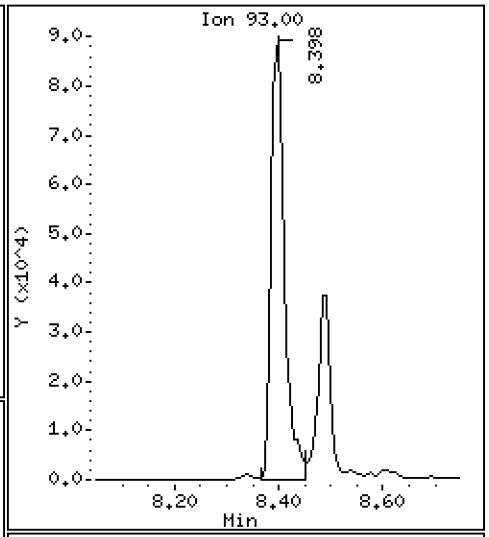
Concentration: 6.806 ug/mL

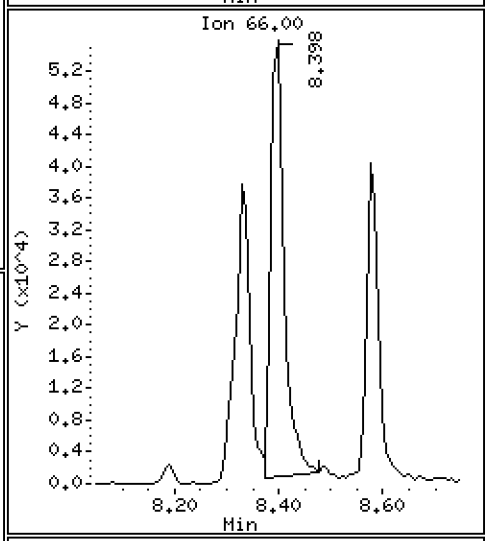


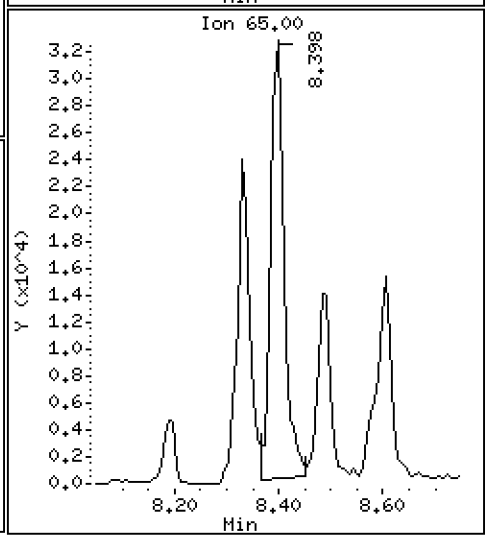












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

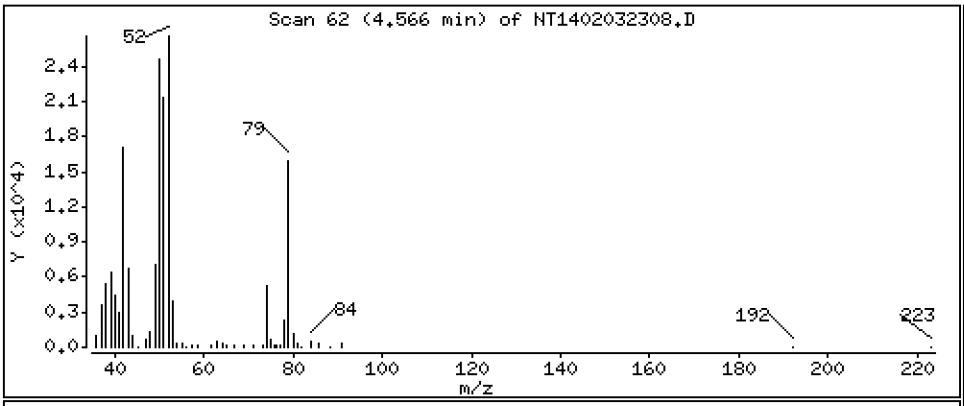
Operator: DSD

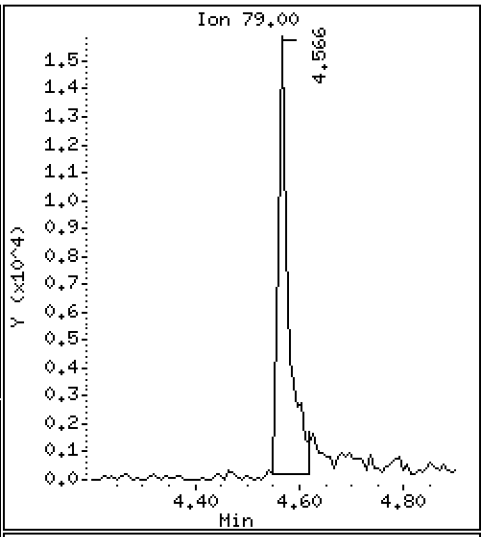
Column phase: ZB-5msi

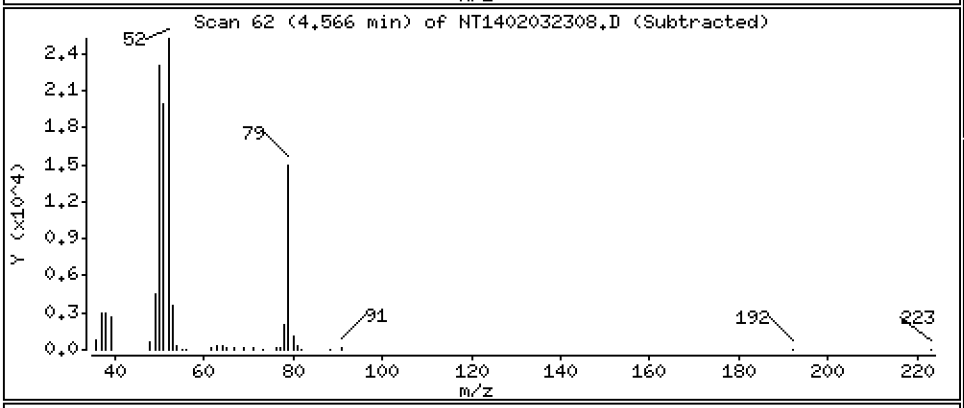
Column diameter: 0.25

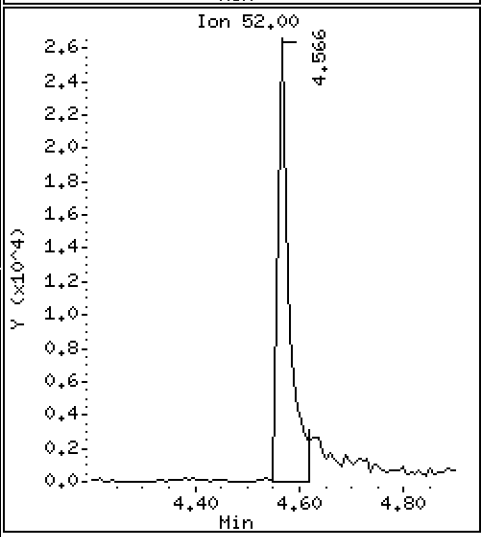
103 Pyridine

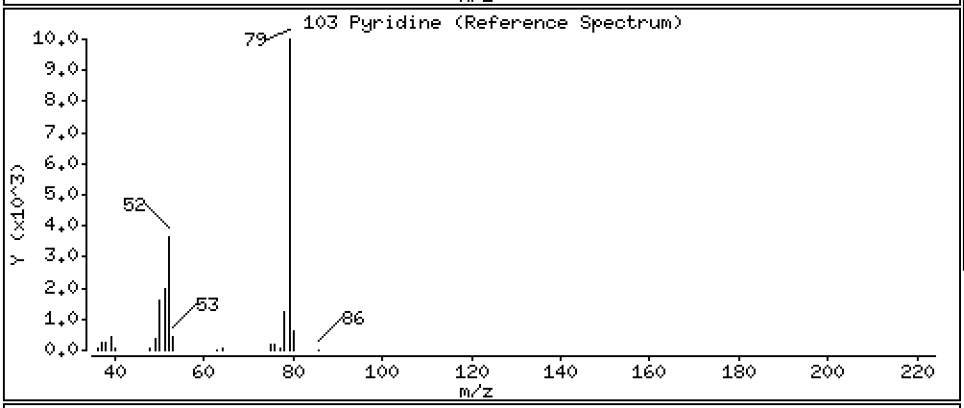
Concentration: 0.7646 ug/mL

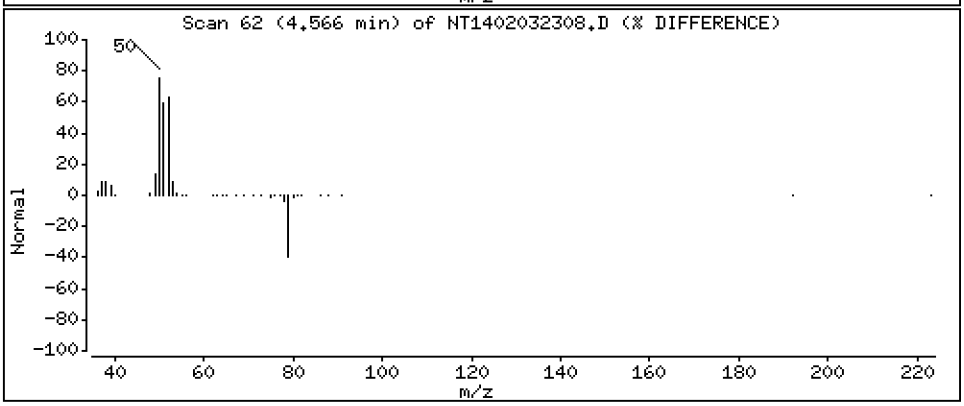












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032308.D

Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

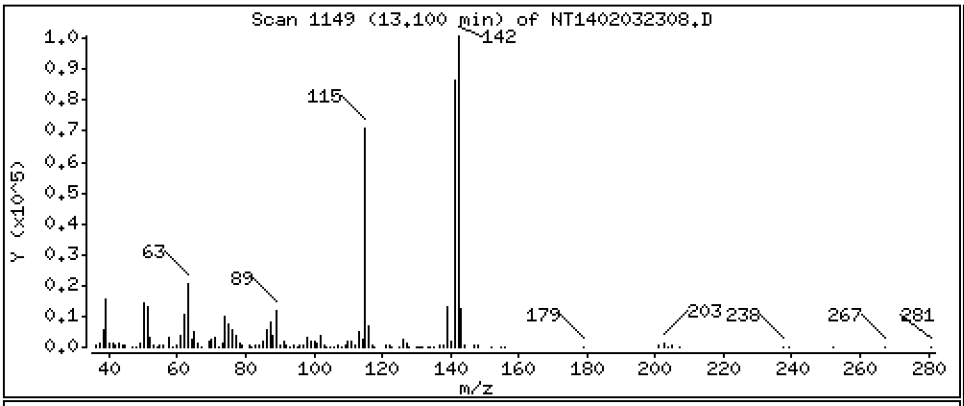
Operator: DSD

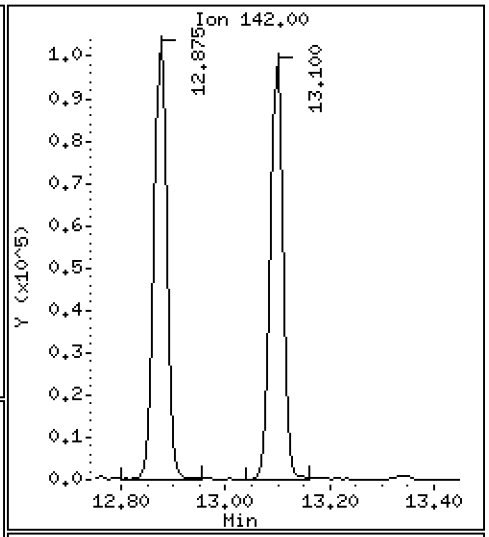
Column phase: ZB-5msi

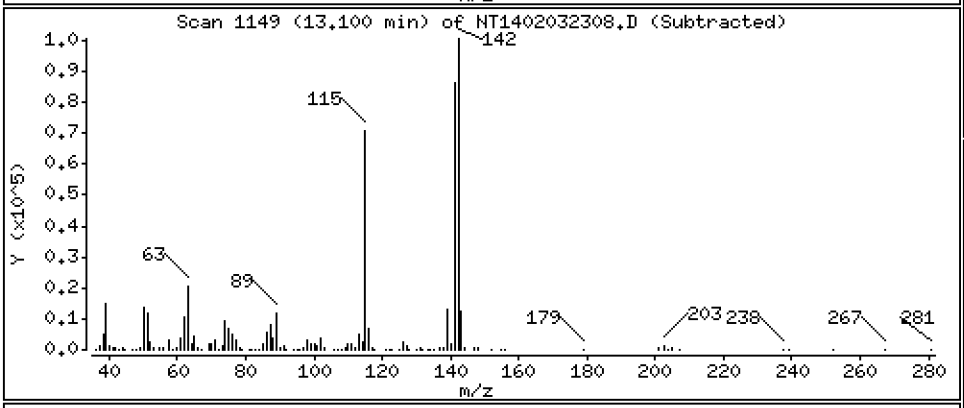
Column diameter: 0.25

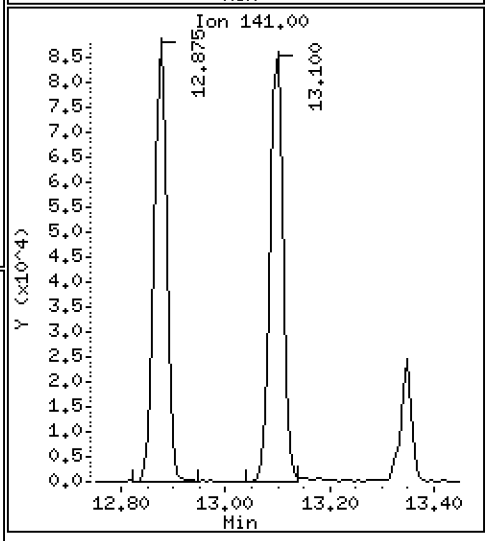
105 1-methylnaphthalene

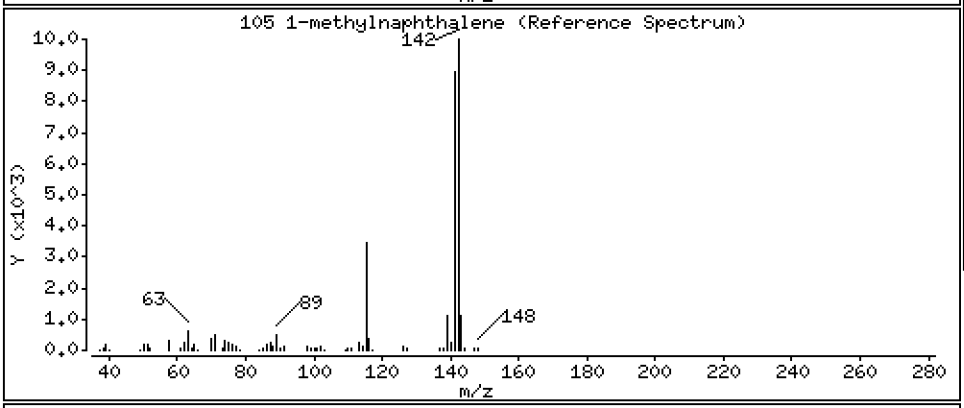
Concentration: 3.431 ug/mL

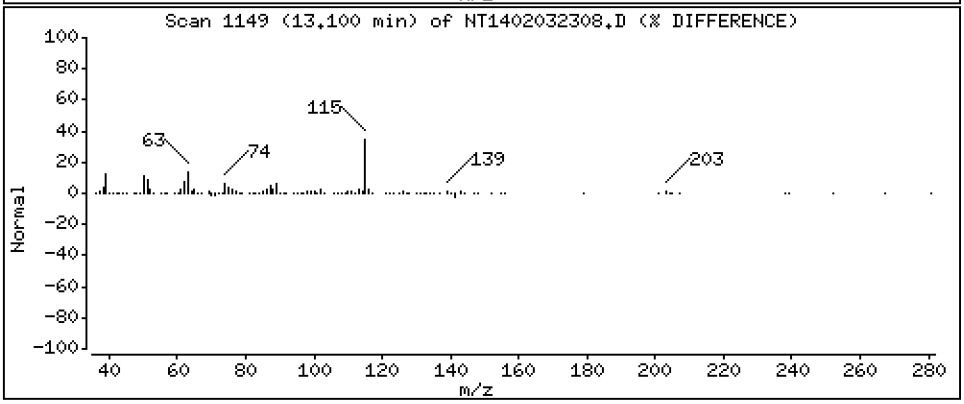












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

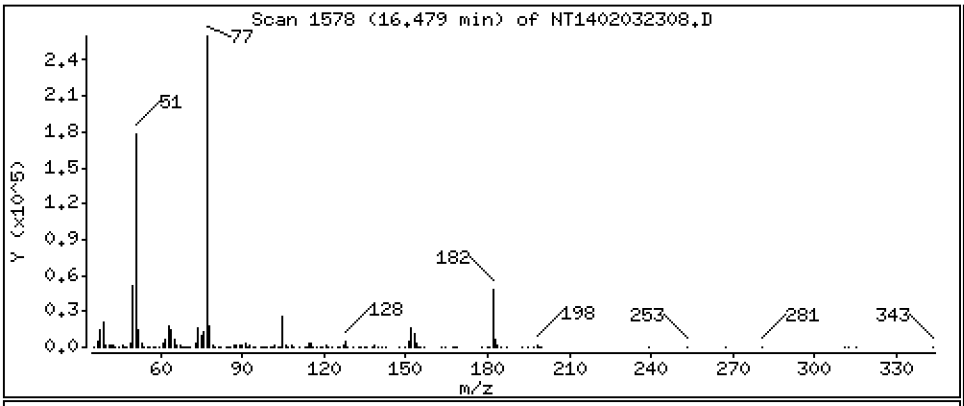
Operator: DSD

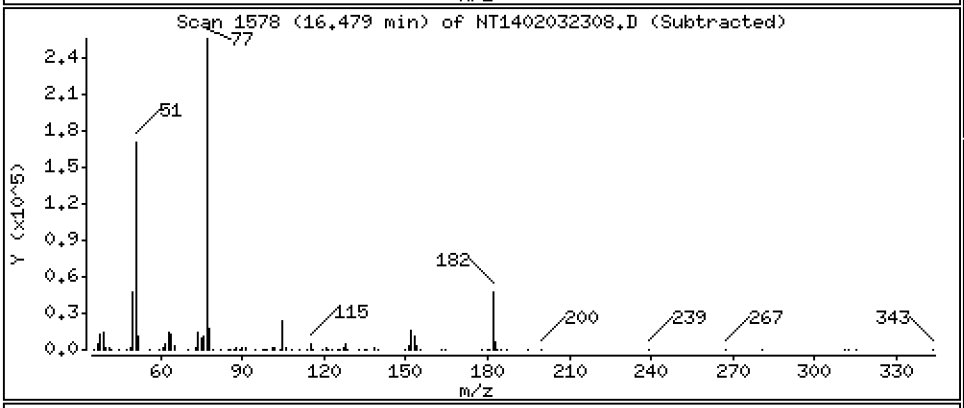
Column phase: ZB-5msi

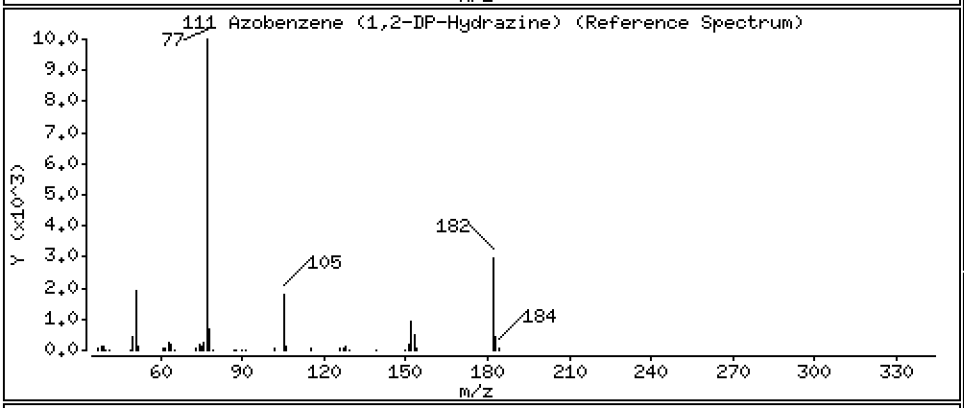
Column diameter: 0.25

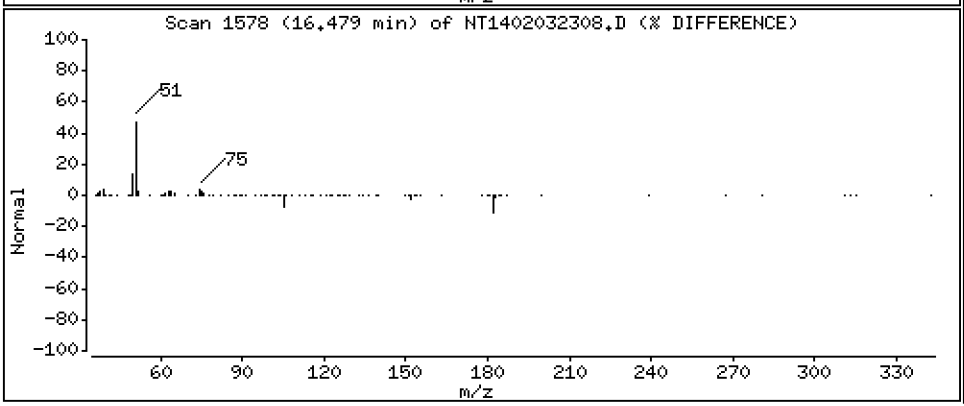
111 Azobenzene (1,2-DP-Hydrazine)

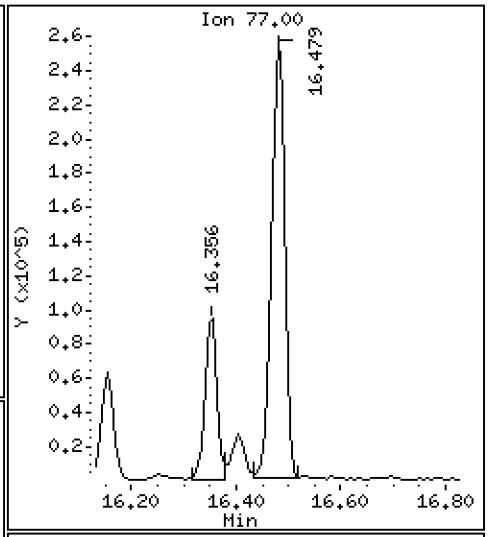
Concentration: 3.570 ug/mL

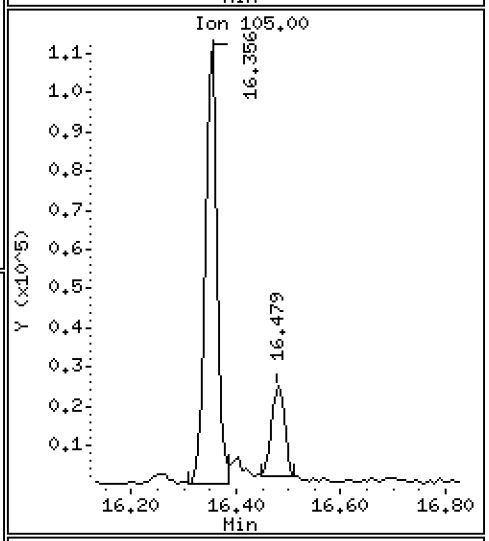


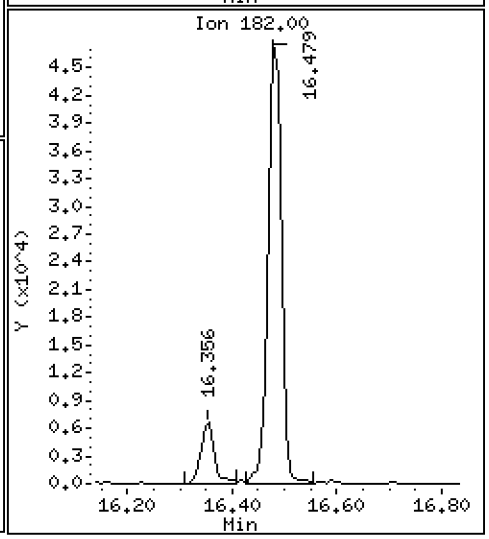












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

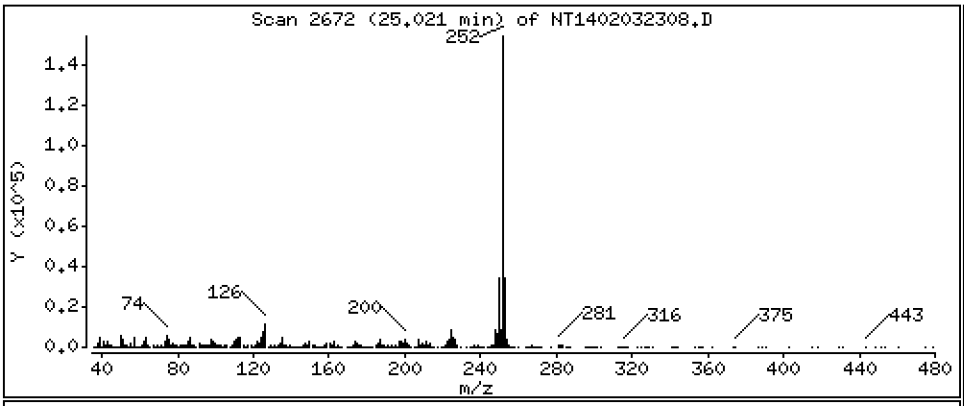
Operator: DSD

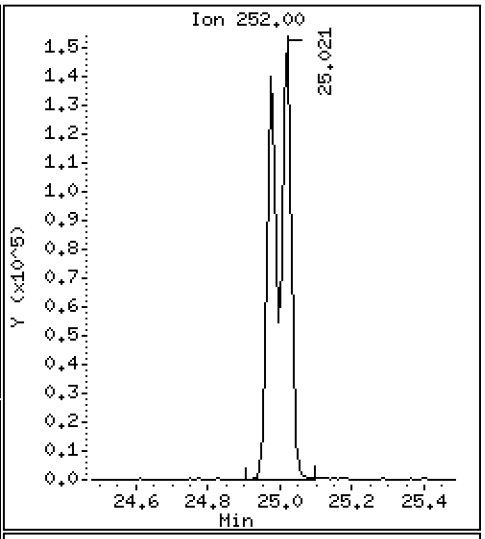
Column phase: ZB-5msi

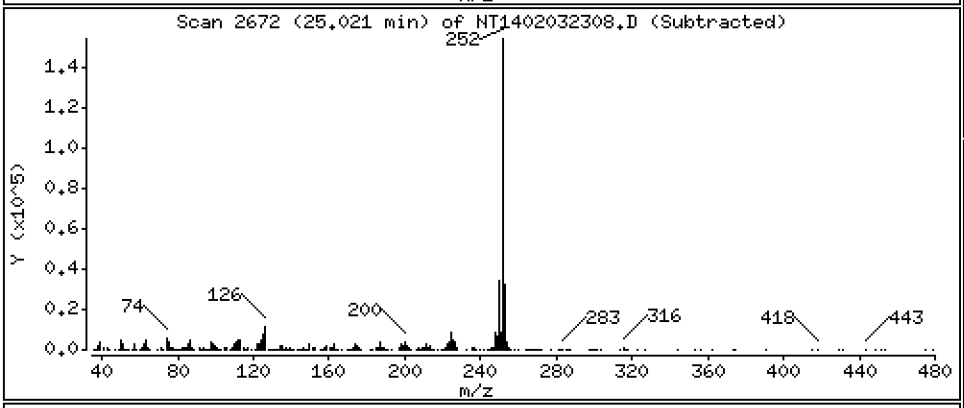
Column diameter: 0.25

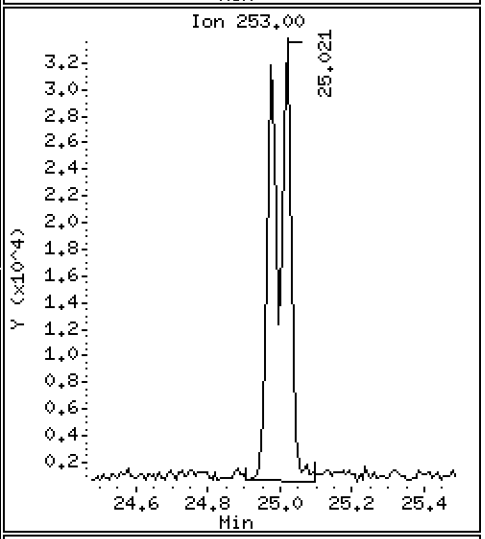
187 Total Benzofluoranthenes

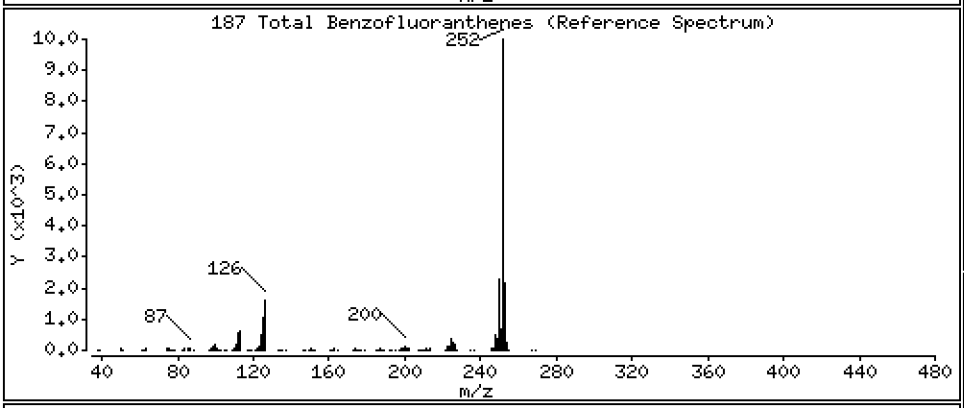
Concentration: 9.098 ug/mL

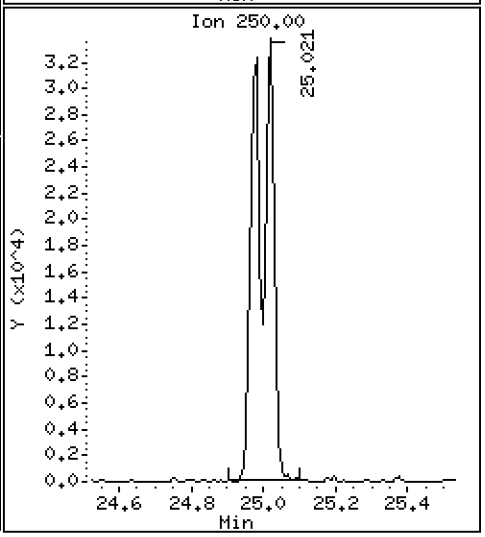


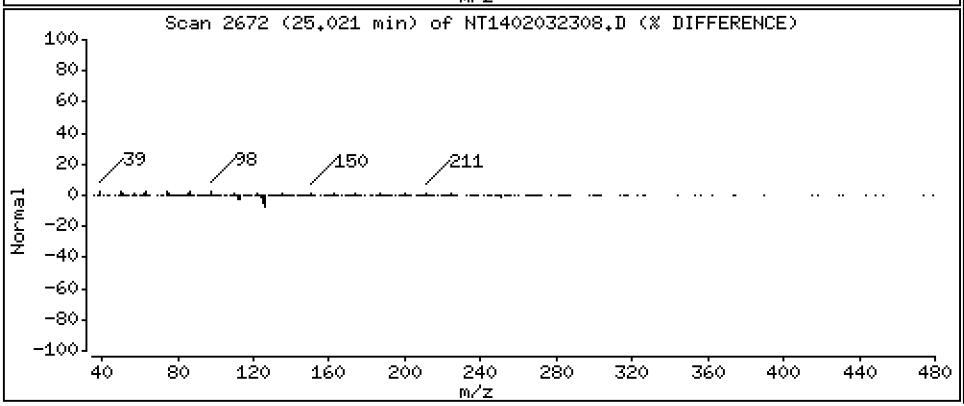












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Date : 03-FEB-2023 17:20

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-BSD1

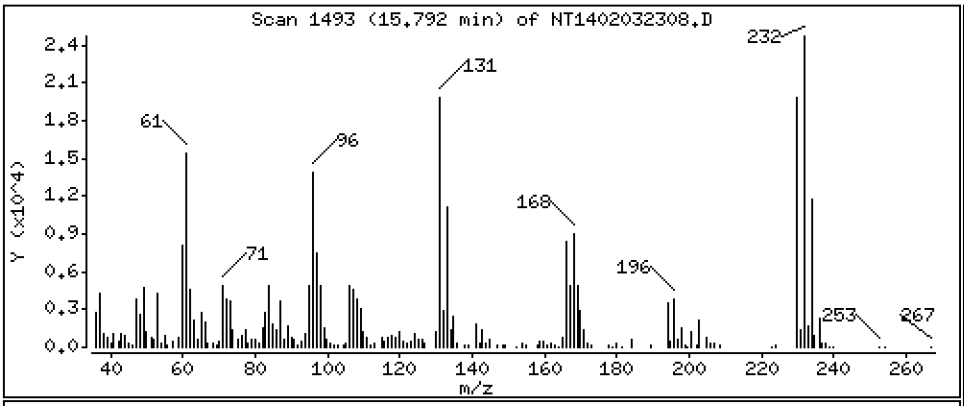
Operator: DSD

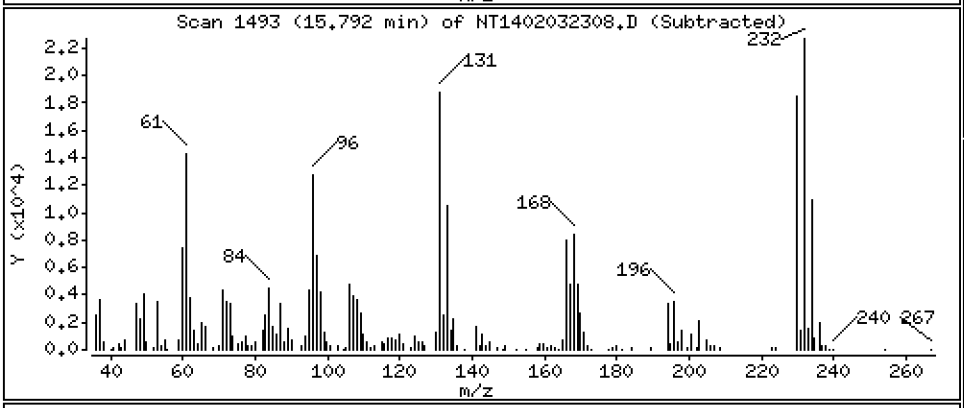
Column phase: ZB-5msi

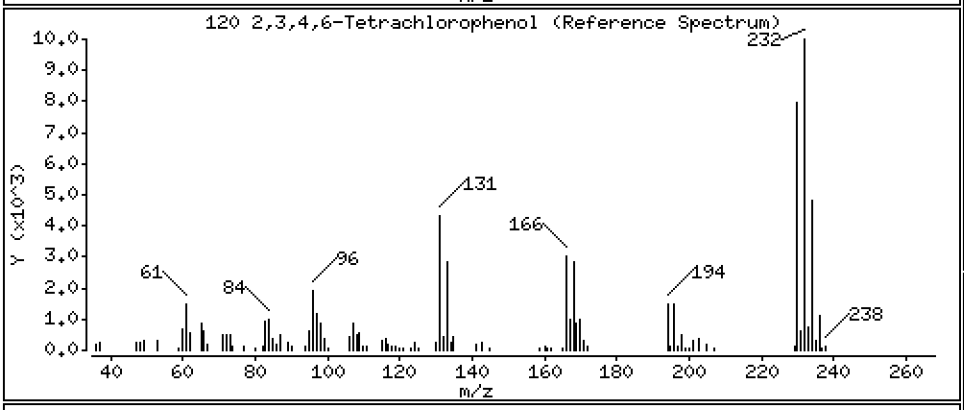
Column diameter: 0.25

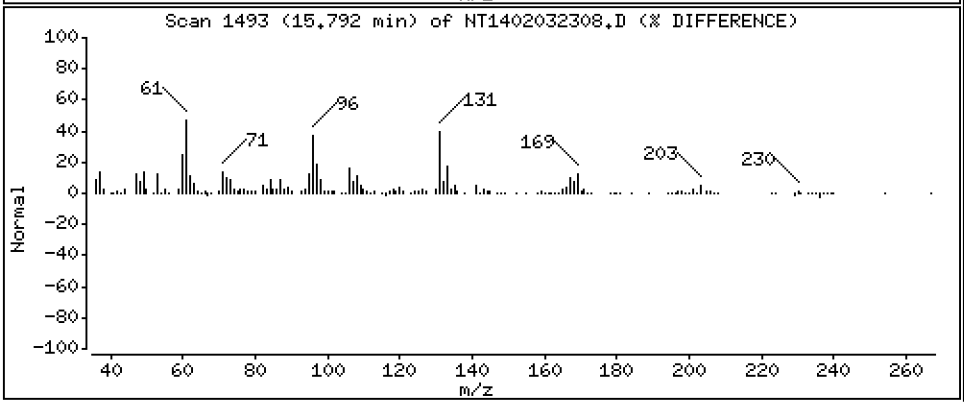
120 2,3,4,6-Tetrachlorophenol

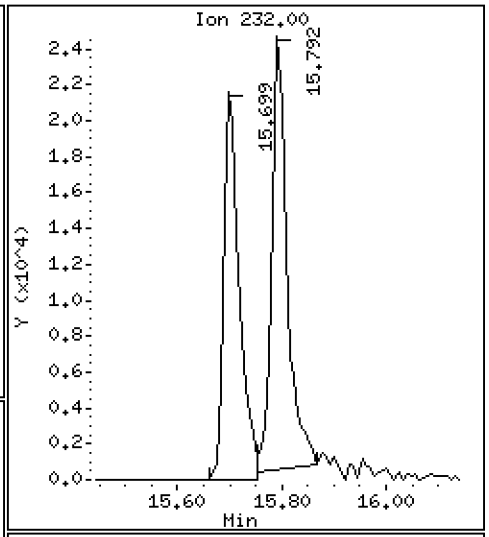
Concentration: 2.465 ug/mL

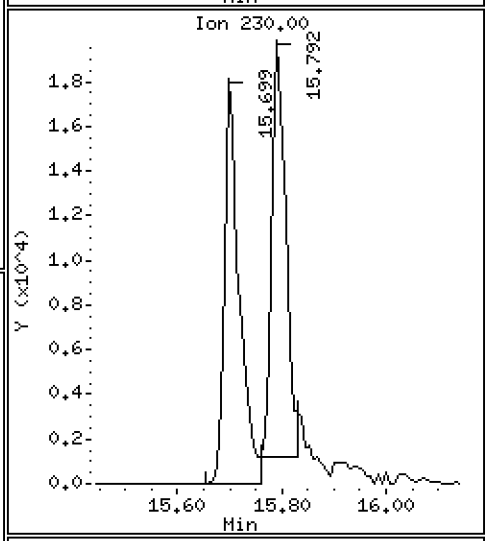


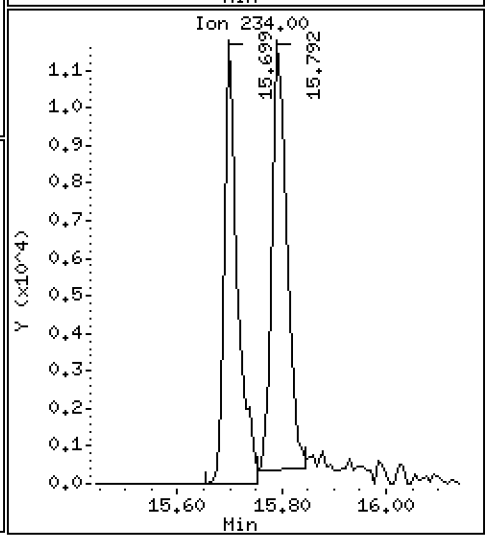












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 03-FEB-2023 17:20 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : BLA0064-BSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.720	6.720	(0.752)	66331	4.08567	4.086
$	2 Phenol-d5	99	8.312	8.312	(0.930)	99905	4.68352	4.684
	3 Phenol	94	8.328	8.336	(0.932)	65590	2.50685	2.507
$	5 2-Chlorophenol-d4	132	8.575	8.583	(0.959)	109314	5.29830	5.298
	4 Bis(2-Chloroethyl)ether	93	8.482	8.490	(0.949)	58904	3.91429	3.914
	6 2-Chlorophenol	128	8.606	8.606	(0.963)	62991	2.89953	2.900
	7 1,3-Dichlorobenzene	146	8.876	8.884	(0.993)	83439	3.43957	3.440
*	8 1,4-Dichlorobenzene-d4	152	8.938	8.946	(1.000)	60446	4.00000	
	9 1,4-Dichlorobenzene	146	8.970	8.977	(1.003)	84302	3.43934	3.439
$	10 1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.041)	52137	3.56057	3.561
	12 1,2-Dichlorobenzene	146	9.327	9.334	(1.043)	83076	3.44702	3.447
	11 Benzyl alcohol	108	9.218	9.218	(1.031)	33251	2.57771	2.578
	14 2,2'-oxybis(1-Chloropropane)	121	9.521	9.521	(1.065)	25831	3.82766	3.828
	13 2-Methylphenol	108	9.451	9.451	(1.057)	44243	2.20224	2.202
	17 Hexachloroethane	117	9.916	9.924	(1.109)	50914	3.44332	3.443
	16 N-Nitroso-di-n-propylamine	70	9.769	9.777	(1.093)	57741	3.29376	3.294
	15 4-Methylphenol	108	9.730	9.722	(1.089)	51750	2.28221	2.282
$	18 Nitrobenzene-d5	82	10.033	10.041	(0.877)	122014	3.66346	3.663
	19 Nitrobenzene	77	10.072	10.072	(0.881)	111299	3.42891	3.429
	20 Isophorone	82	10.522	10.530	(0.920)	176338	4.80344	4.803
	21 2-Nitrophenol	139	10.708	10.708	(0.936)	33719	2.72580	2.726
	22 2,4-Dimethylphenol	107	10.770	10.770	(0.942)	70427	2.14852	2.149
	23 Bis(2-Chloroethoxy)methane	93	10.956	10.964	(0.958)	80440	4.33755	4.338
	24 Benzoic acid	105	10.995	10.972	(0.961)	133222	6.76411	6.764(M)
	25 2,4-Dichlorophenol	162	11.165	11.165	(0.976)	260456	12.2955	12.30
	26 1,2,4-Trichlorobenzene	180	11.351	11.351	(0.993)	98138	4.27576	4.276
*	27 Naphthalene-d8	136	11.436	11.436	(1.000)	232779	4.00000	
	28 Naphthalene	128	11.475	11.482	(1.003)	223039	3.80814	3.808
	29 4-Chloroaniline	127	11.606	11.614	(1.015)	213919	8.45954	8.460
	30 Hexachlorobutadiene	225	11.845	11.845	(1.036)	83023	4.58153	4.582
	31 4-Chloro-3-methylphenol	107	12.581	12.581	(1.100)	328432	11.4876	11.49
	32 2-Methylnaphthalene	142	12.875	12.882	(1.126)	169919	3.55871	3.559
	33 Hexachlorocyclopentadiene	237	13.347	13.347	(0.886)	172926	8.12751	8.128

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.502	13.502	(0.897)	215530	11.2708	11.27
35	2,4,5-Trichlorophenol	196	13.579	13.579	(0.902)	232636	10.9788	10.98
$ 36	2-Fluorobiphenyl	172	13.664	13.664	(0.907)	206808	3.91072	3.911
37	2-Chloronaphthalene	162	13.873	13.873	(0.921)	163993	3.72734	3.727
38	2-Nitroaniline	65	14.128	14.128	(0.938)	332959	12.9002	12.90
39	Dimethylphthalate	163	14.562	14.570	(0.967)	242702	4.26308	4.263
40	Acenaphthylene	152	14.740	14.748	(0.979)	263408	3.82462	3.825
41	2,6-Dinitrotoluene	165	14.701	14.701	(0.976)	197337	15.1014	15.10
* 42	Acenaphthene-d10	164	15.057	15.057	(1.000)	148592	4.00000	
43	3-Nitroaniline	138	14.988	14.988	(0.995)	140319	11.1223	11.12
44	Acenaphthene	153	15.127	15.127	(1.005)	189032	4.05774	4.058
45	2,4-Dinitrophenol	184	15.196	15.204	(1.009)	156159	11.8072	11.81
46	Dibenzofuran	168	15.451	15.451	(1.026)	257295	3.81139	3.811
47	4-Nitrophenol	109	15.320	15.320	(1.017)	266888	10.0587	10.06
48	2,4-Dinitrotoluene	165	15.513	15.513	(1.030)	280044	15.4412	15.44
50	Diethylphthalate	149	16.023	16.031	(1.064)	381855	4.61571	4.616
49	Fluorene	166	16.163	16.163	(1.073)	348460	4.01778	4.018
51	4-Chlorophenyl-phenylether	204	16.155	16.163	(1.073)	171999	3.60695	3.607
52	4-Nitroaniline	138	16.255	16.255	(1.080)	185234	12.3645	12.36
53	4,6-Dinitro-2-methylphenol	198	16.355	16.355	(0.904)	396439	21.7674	21.77
54	N-Nitrosodiphenylamine	169	16.409	16.409	(0.907)	168825	3.42105	3.421
$ 55	2,4,6-Tribromophenol	330	16.695	16.702	(1.109)	70144	5.71176	5.712
56	4-Bromophenyl-phenylether	248	17.157	17.157	(0.948)	98371	4.27651	4.277
57	Hexachlorobenzene	284	17.474	17.474	(0.966)	101371	3.86171	3.862
58	Pentachlorophenol	266	17.830	17.838	(0.985)	109200	7.39464	7.395
* 59	Phenanthrene-d10	188	18.093	18.093	(1.000)	291635	4.00000	
60	Phenanthrene	178	18.139	18.147	(1.003)	315527	4.00983	4.010
61	Anthracene	178	18.232	18.232	(1.008)	248185	3.30081	3.301
62	Carbazole	167	18.565	18.565	(1.026)	268316	3.88626	3.886
63	Di-n-butylphthalate	149	19.370	19.377	(1.071)	478822	4.47313	4.473
64	Fluoranthene	202	20.530	20.538	(0.887)	390041	4.52163	4.522
65	Pyrene	202	20.956	20.963	(0.905)	387026	4.52061	4.521
$ 66	Terphenyl-d14	244	21.250	21.250	(0.918)	333439	4.64616	4.646
67	Butylbenzylphthalate	149	22.171	22.179	(0.958)	212203	4.52686	4.527
68	Benzo(a)anthracene	228	23.123	23.123	(0.999)	333118	4.18870	4.189
* 69	Chrysene-d12	240	23.147	23.154	(1.000)	218044	4.00000	
70	3,3'-Dichlorobenzidine	252	23.077	23.085	(0.997)	262835	7.31583	7.316
71	Chrysene	228	23.193	23.201	(1.002)	331875	4.22400	4.224
72	bis(2-Ethylhexyl)phthalate	149	23.201	23.201	(0.960)	299165	4.65753	4.658
* 134	Di-n-octylphthalate-d4	153	24.176	24.184	(1.000)	378020	4.00000	
73	Di-n-octylphthalate	149	24.192	24.192	(1.001)	424009	4.44237	4.442
74	Benzo(b)fluoranthene	252	24.974	24.981	(0.971)	265671	4.54317	4.543
75	Benzo(k)fluoranthene	252	25.020	25.020	(0.973)	271881	4.54128	4.541
76	Benzo(a)pyrene	252	25.609	25.616	(0.995)	209171	4.18639	4.186
* 77	Perylene-d12	264	25.725	25.725	(1.000)	166412	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.289	28.305	(1.100)	243991	3.86526	3.865
79	Dibenzo(a,h)anthracene	278	28.297	28.305	(1.100)	212255	3.90455	3.905
80	Benzo(g,h,i)perylene	276	29.050	29.058	(1.129)	180666	3.86479	3.865
90	N-Nitrosodimethylamine	74	4.535	4.535	(0.507)	59587	6.08011	6.080
91	Aniline	93	8.397	8.397	(0.939)	151120	6.80619	6.806
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.566	4.550	(0.511)	21606	0.76462	0.7646
105	1-methylnaphthalene	142	13.099	13.099	(1.145)	159098	3.43120	3.431
111	Azobenzene (1,2-DP-Hydrazine)	77	16.479	16.479	(1.094)	425142	3.56976	3.570

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.020	24.981	(0.973)	517943	9.09810	9.098
120 2,3,4,6-Tetrachlorophenol	232	15.791	15.791	(1.049)	47590	2.46478	2.465

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032308.D
Lab Smp Id: BLA0064-BSD1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	60446	-6.93
27 Naphthalene-d8	262858	131429	525716	232779	-11.44
42 Acenaphthene-d10	167543	83772	335086	148592	-11.31
59 Phenanthrene-d10	341039	170520	682078	291635	-14.49
69 Chrysene-d12	222731	111366	445462	218044	-2.10
134 Di-n-octylphthala	333425	166713	666850	378020	13.37
77 Perylene-d12	152721	76361	305442	166412	8.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.09
27 Naphthalene-d8	11.44	10.94	11.94	11.44	0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.09	-0.00
69 Chrysene-d12	23.15	22.65	23.65	23.15	-0.03
134 Di-n-octylphthala	24.18	23.68	24.68	24.18	-0.03
77 Perylene-d12	25.73	25.23	26.23	25.73	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032308.D

Lab ID: BLA0064-BSD1
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 17:20

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

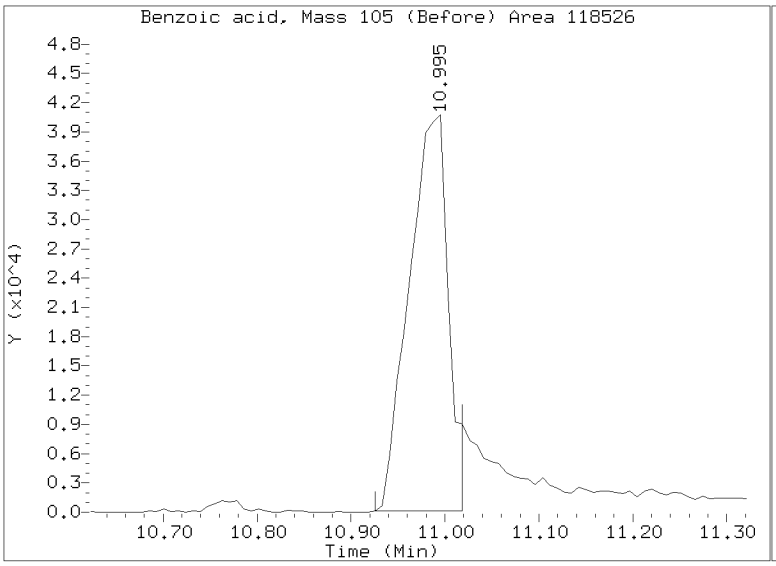
RRT check based on Ccal File: NT1402032303.D

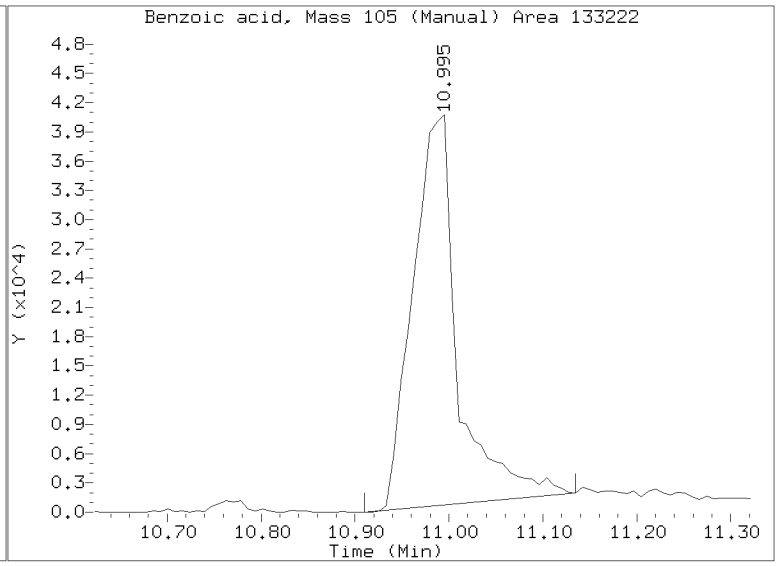
On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032308.D
Injection Date: 03-FEB-2023 17:20
Lab ID:BLA0064-BSD1 Client ID:
Report Date: 02/04/2023 10:28





Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1123B

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	02/03/23 18:32
Batch:	BLA0064	Laboratory ID:	BLA0064-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	17.66 g / 1 mL	Source Sample:	LDW23-SC1123B

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Phenol	500	16.0	J	256		48.0	34 - 120
4-Methylphenol	500	84.0		355		54.2	29 - 120
Naphthalene	500	28.4		374		69.2	43 - 120
2-Methylnaphthalene	500	21.5		364		68.5	43 - 120
Acenaphthylene	500	ND	U	332		66.5	42 - 120
Dimethylphthalate	500	12.9	J	414		80.2	43 - 120
Acenaphthene	500	11.8	J	407		79.1	45 - 120
Dibenzofuran	500	14.8	J	398		76.6	43 - 120
Fluorene	500	ND	U	394		78.9	45 - 120
Phenanthrene	500	93.4		522		85.7	49 - 120
Anthracene	500	34.7		374		68.0	45 - 120
Fluoranthene	500	320		829		102	53 - 145
Pyrene	500	786		1160		75.4	52 - 134
Butylbenzylphthalate	500	45.2		427		76.5	45 - 132
Benzo(a)anthracene	500	103		484		76.1	49 - 120
Chrysene	500	139		542		80.6	47 - 120
bis(2-Ethylhexyl)phthalate	500	511		817		61.2	34 - 130
Benzofluoranthenes, Total	1000	484		1600		111	30 - 160
Benzo(a)pyrene	500	184		643		91.7	42 - 120
Indeno(1,2,3-cd)pyrene	500	98.2		500		80.5	42 - 163
Dibenzo(a,h)anthracene	500	30.3		424		78.8	30 - 133
Benzo(g,h,i)perylene	500	117		510		78.7	46 - 148

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	02/03/23 19:09
Batch:	BLA0064	Laboratory ID:	BLA0064-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	17.66 g / 1 mL	Source Sample:	LDW23-SC1123B

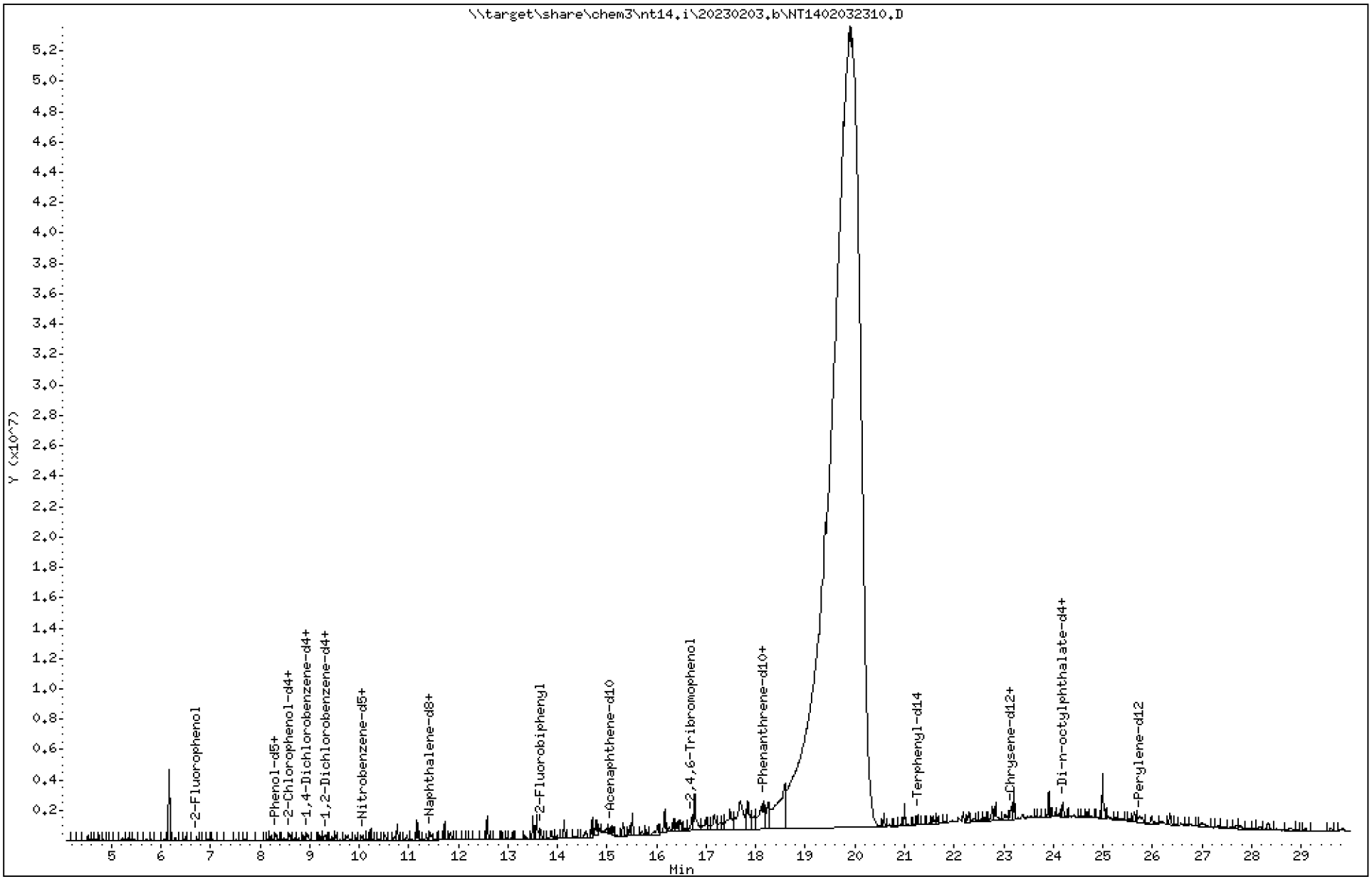
COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	500	308		58.4	18.5	30	34 - 120
4-Methylphenol	500	398		62.9	11.5	30	29 - 120
Naphthalene	500	426		79.5	12.8	30	43 - 120
2-Methylnaphthalene	500	409		77.6	11.8	30	43 - 120
Acenaphthylene	500	361		72.3	8.40	30	42 - 120
Dimethylphthalate	500	424		82.2	2.42	30	43 - 120
Acenaphthene	500	419		81.5	2.82	30	45 - 120
Dibenzofuran	500	407		78.4	2.13	30	43 - 120
Fluorene	500	396		79.2	0.301	30	45 - 120
Phenanthrene	500	510		83.4	2.20	30	49 - 120
Anthracene	500	402		73.6	7.18	30	45 - 120
Fluoranthene	500	806		97.3	2.79	30	53 - 145
Pyrene	500	1150		72.6	1.17	30	52 - 134
Butylbenzylphthalate	500	427		76.4	0.0271	30	45 - 132
Benzo(a)anthracene	500	476		74.4	1.68	30	49 - 120
Chrysene	500	564		85.1	4.07	30	47 - 120
bis(2-Ethylhexyl)phthalate	500	799		57.6	2.24	30	34 - 130
Benzofluoranthenes, Total	1000	1490		100	7.11	30	30 - 160
Benzo(a)pyrene	500	632		89.6	1.62	30	42 - 120
Indeno(1,2,3-cd)pyrene	500	497		79.8	0.632	30	42 - 163
Dibenzo(a,h)anthracene	500	404		74.8	4.82	30	30 - 133
Benzo(g,h,i)perylene	500	465		69.7	9.23	30	46 - 148

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D
Date : 03-FEB-2023 18:32
Client ID:
Sample Info: BLA0064-MS1

Instrument: nt14.i
Operator: DSD
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

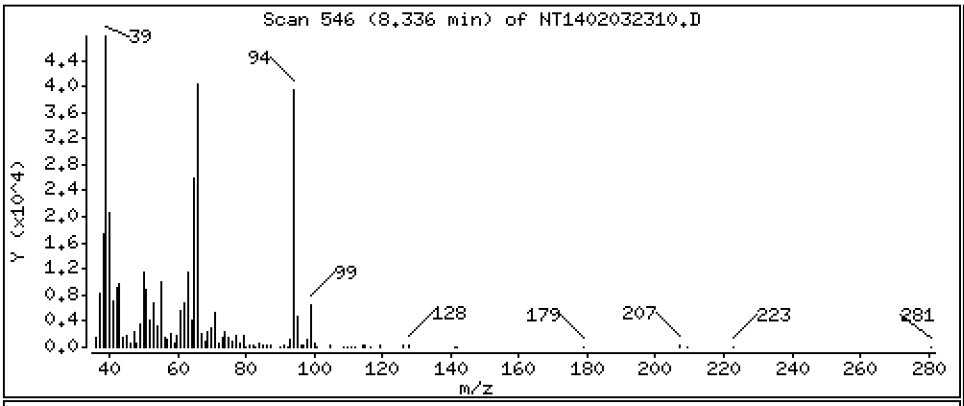
Operator: DSD

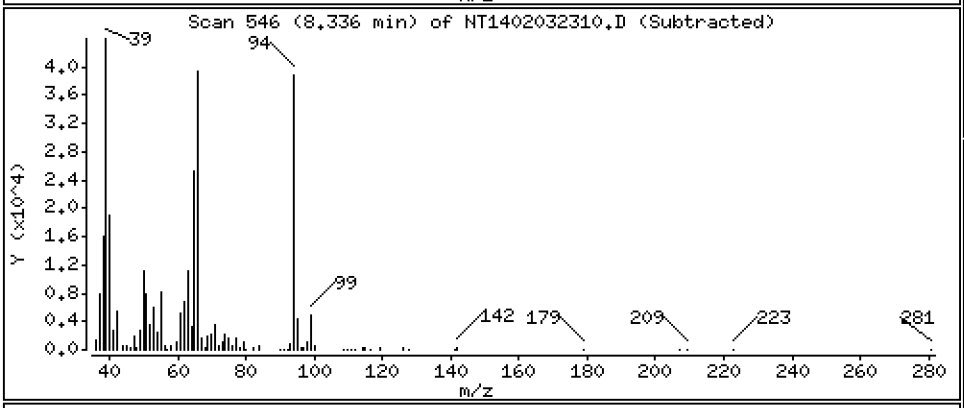
Column phase: ZB-5msi

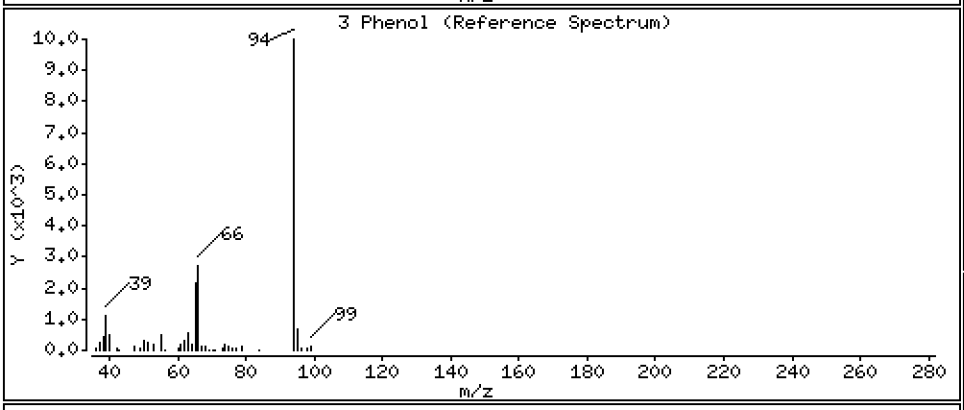
Column diameter: 0.25

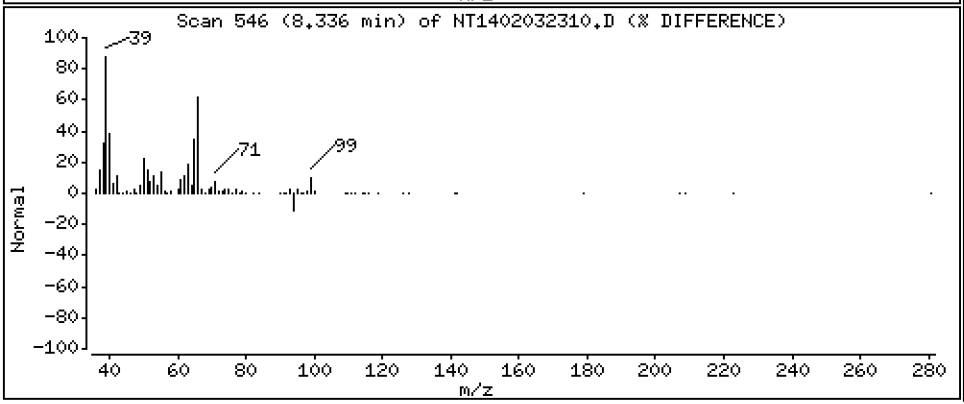
3 Phenol

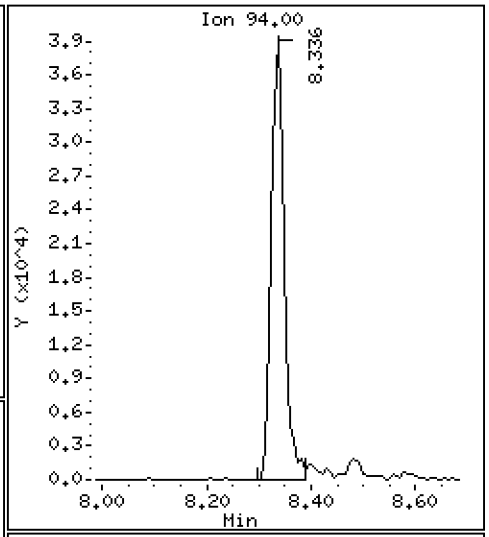
Concentration: 2.561 ug/mL

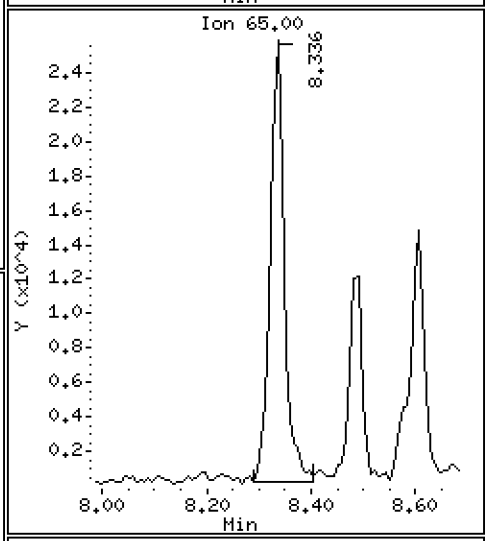


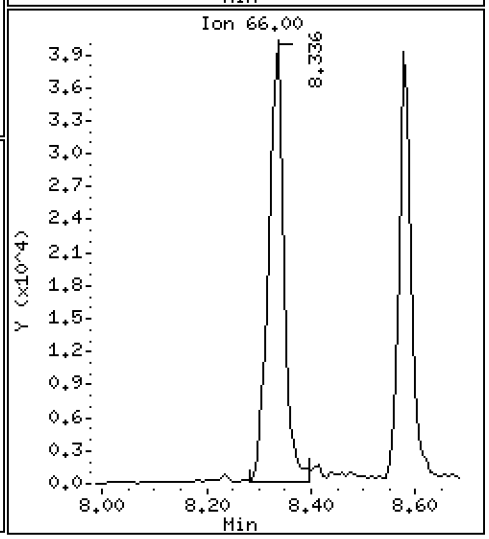












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

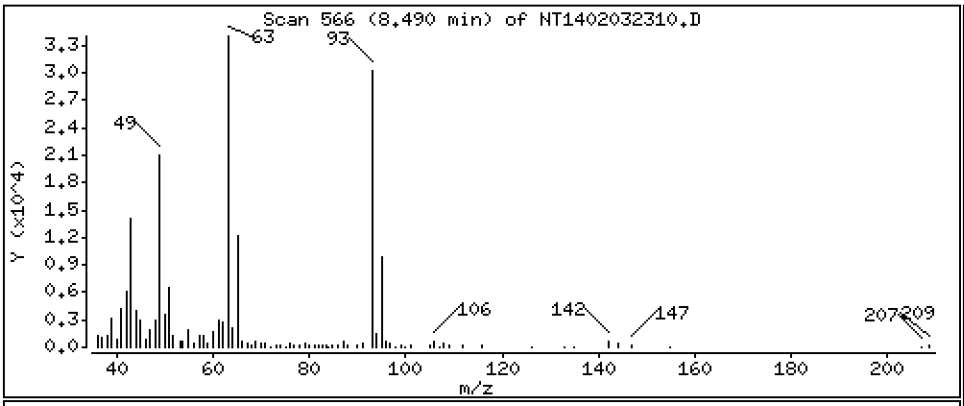
Operator: DSD

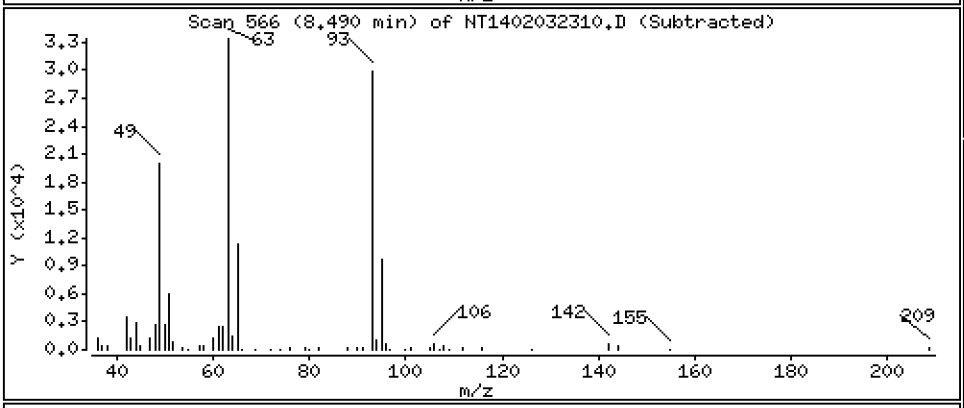
Column phase: ZB-5msi

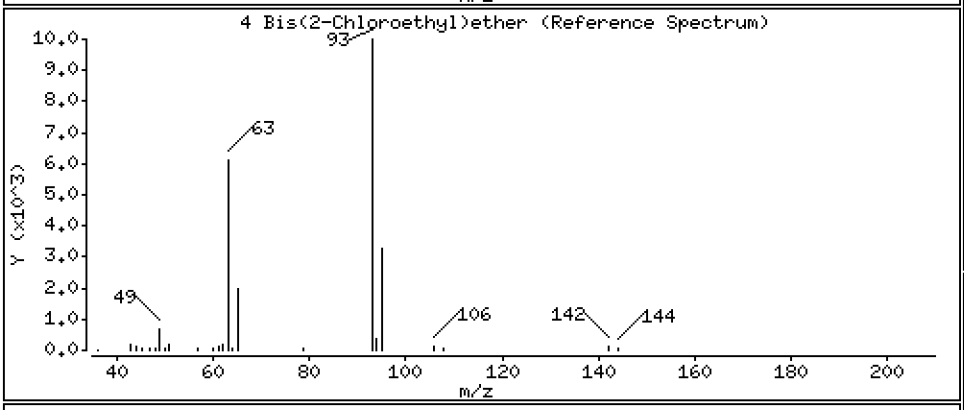
Column diameter: 0.25

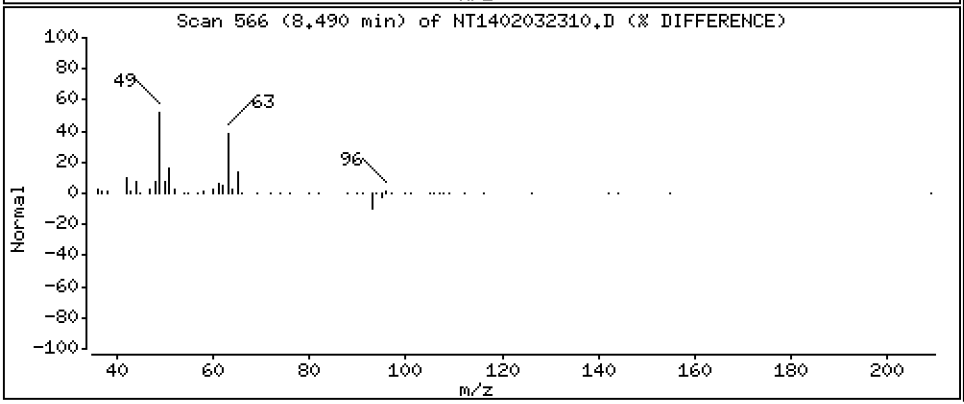
4 Bis(2-Chloroethyl)ether

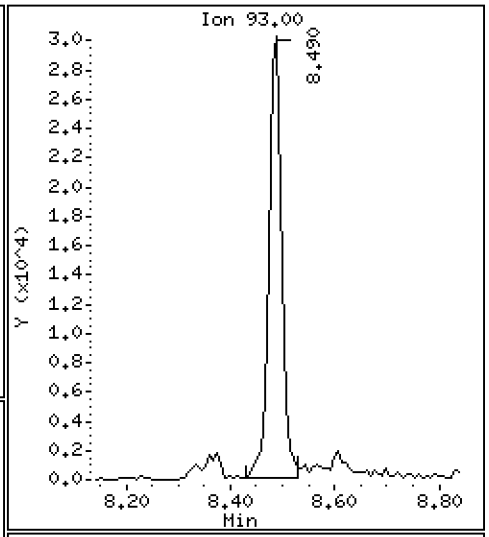
Concentration: 3.418 ug/mL

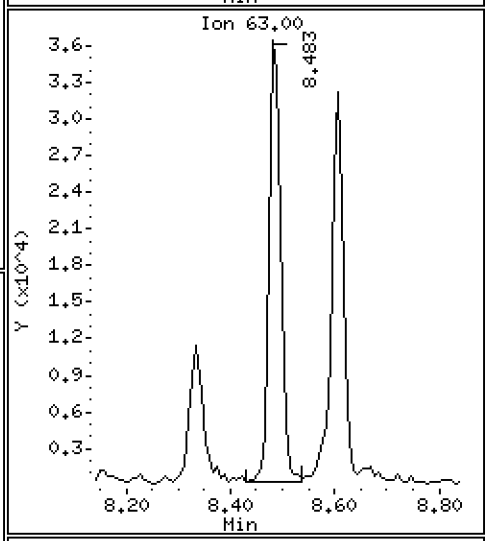


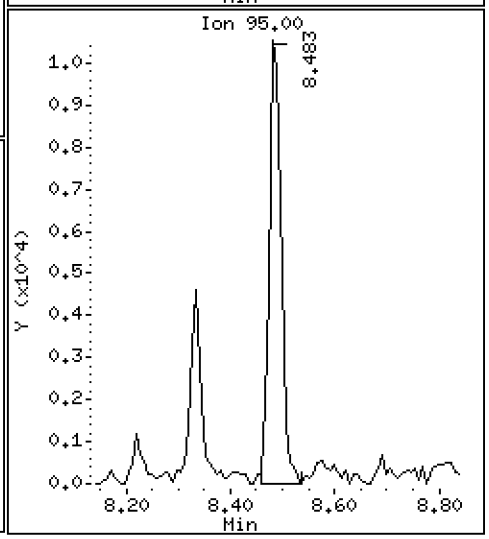












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

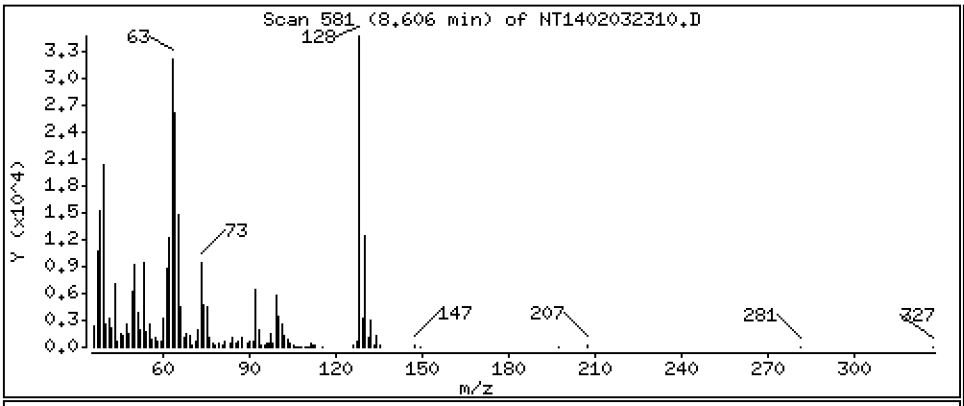
Operator: DSD

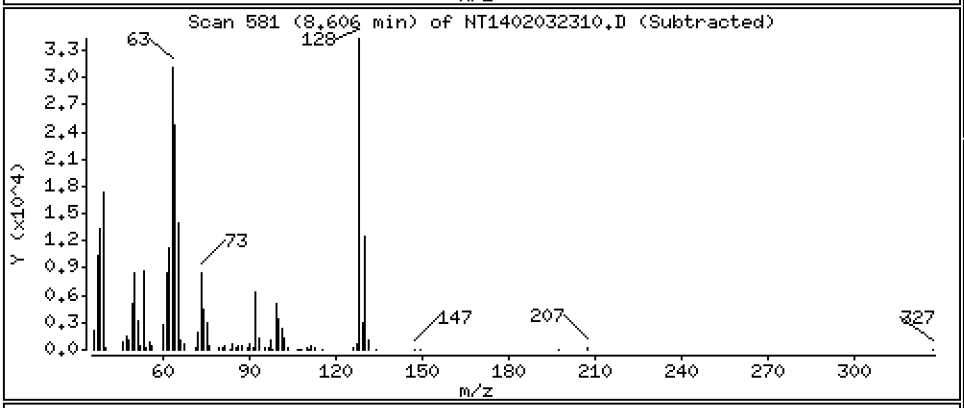
Column phase: ZB-5msi

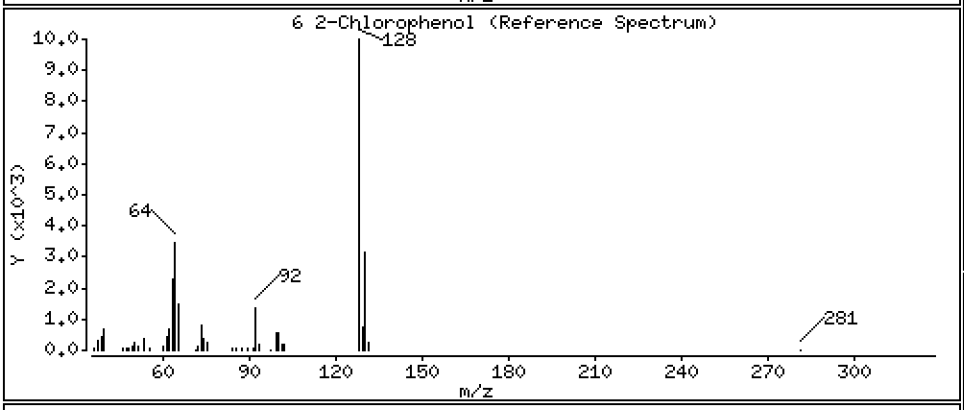
Column diameter: 0.25

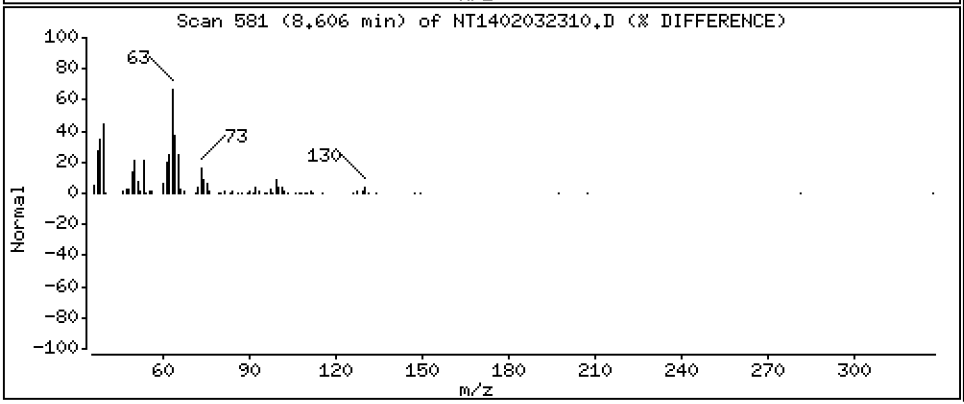
6 2-Chlorophenol

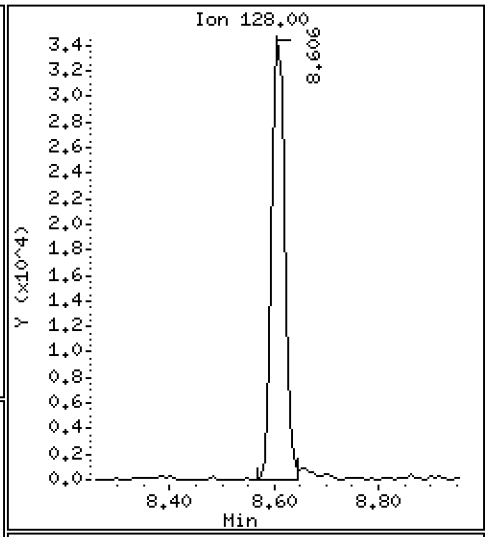
Concentration: 2.750 ug/mL

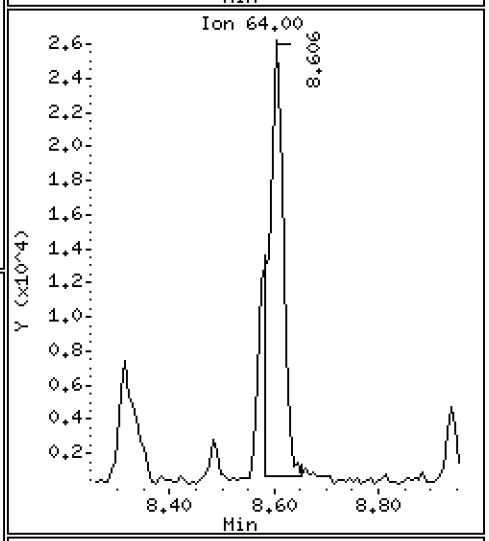


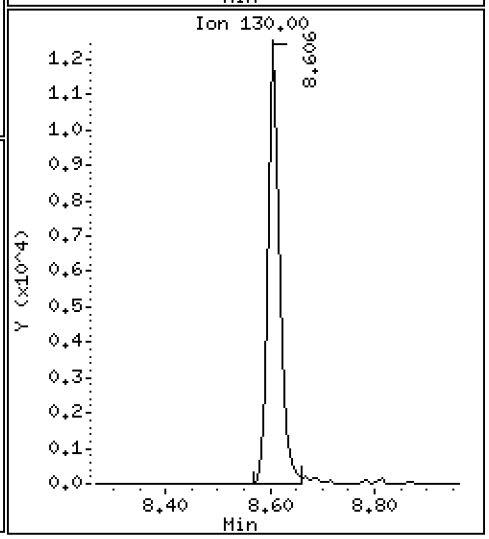












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

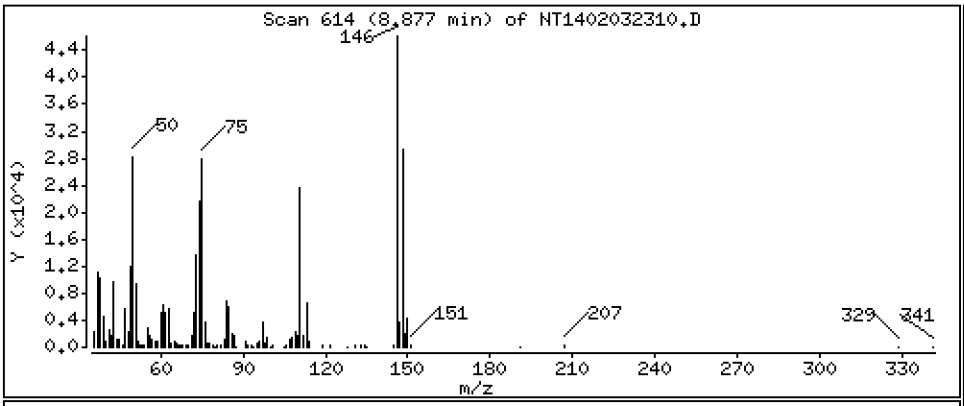
Operator: DSD

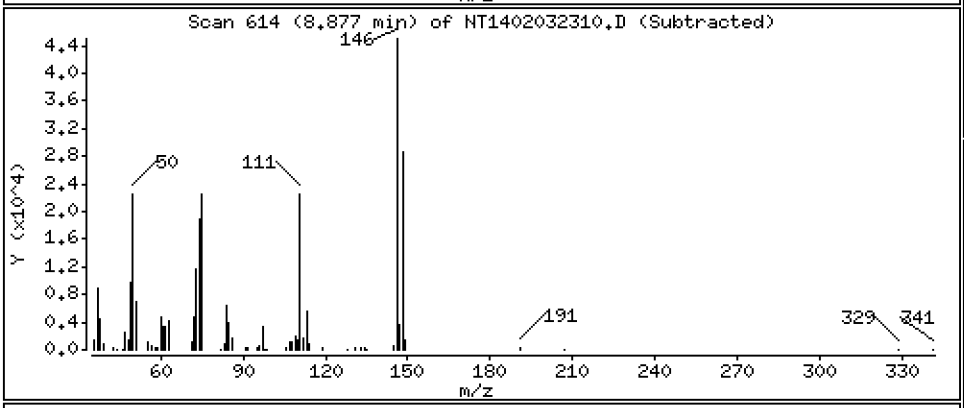
Column phase: ZB-5msi

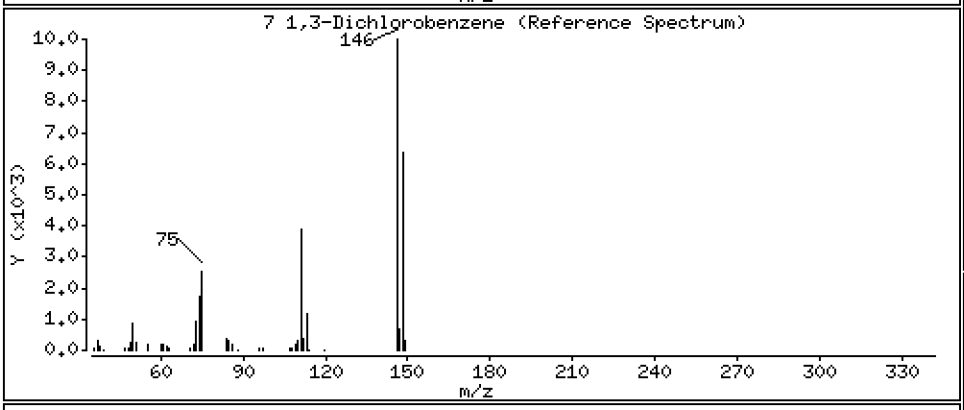
Column diameter: 0.25

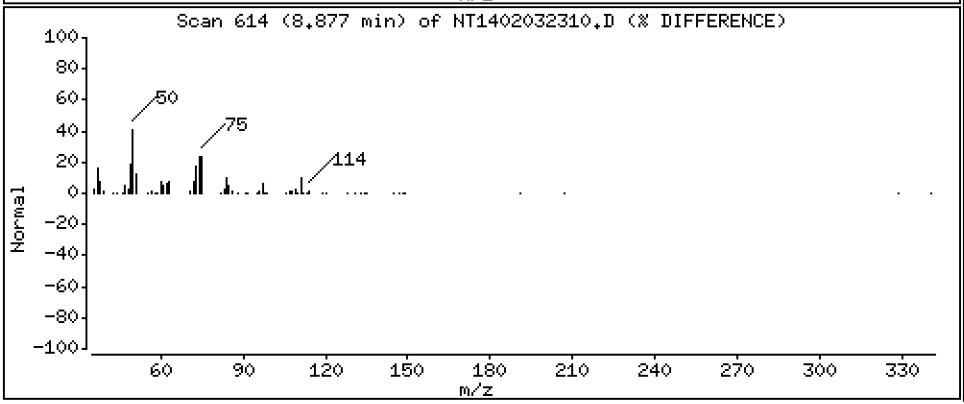
7 1,3-Dichlorobenzene

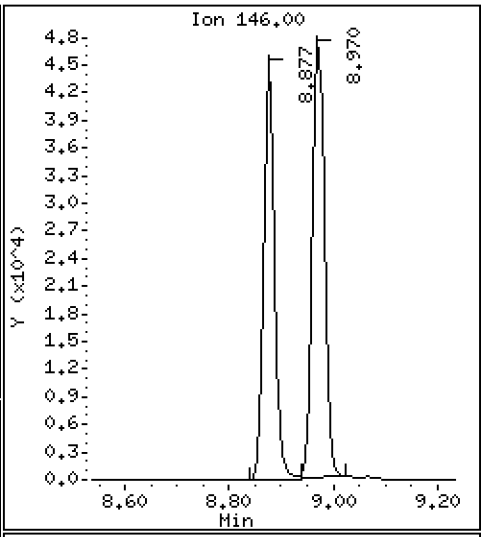
Concentration: 2.897 ug/mL

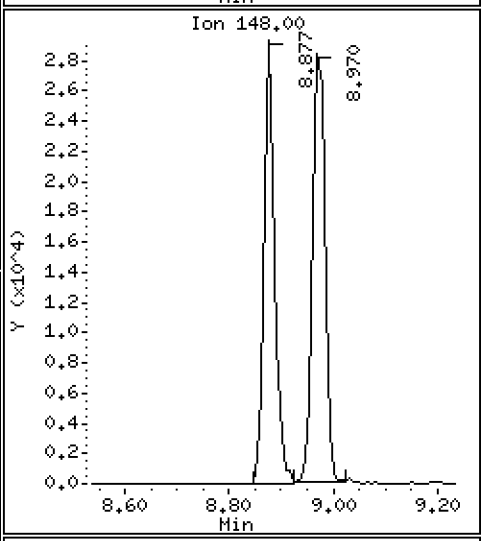


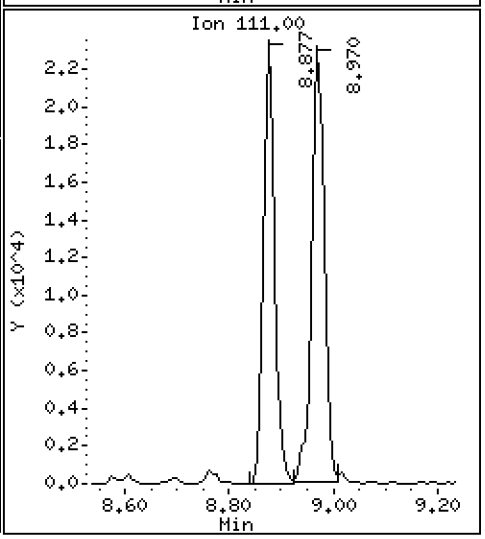












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

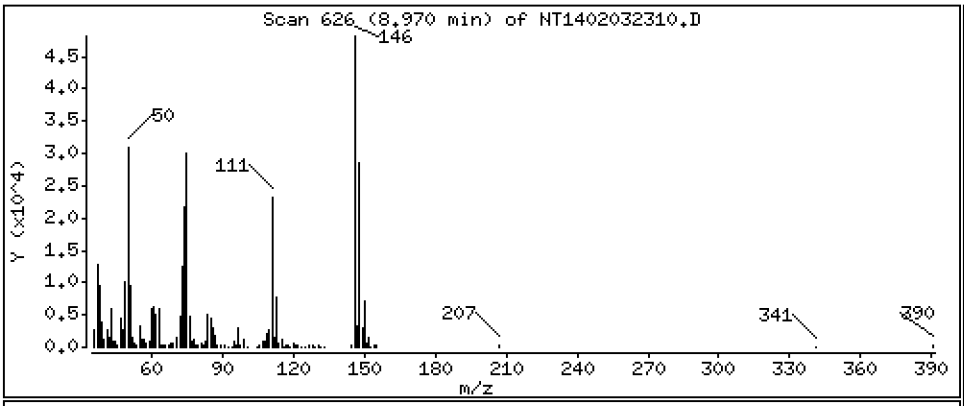
Operator: DSD

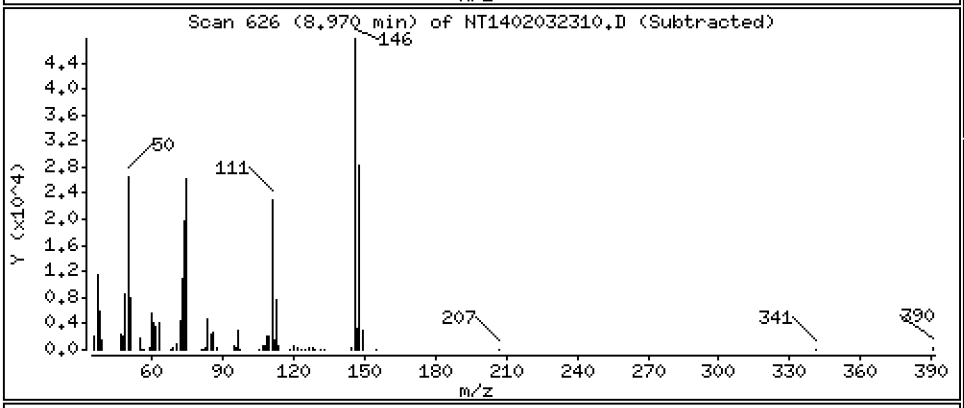
Column phase: ZB-5msi

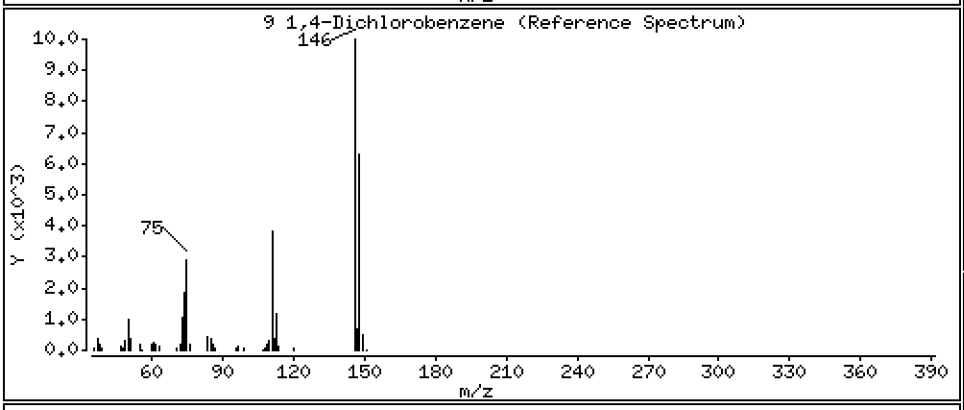
Column diameter: 0.25

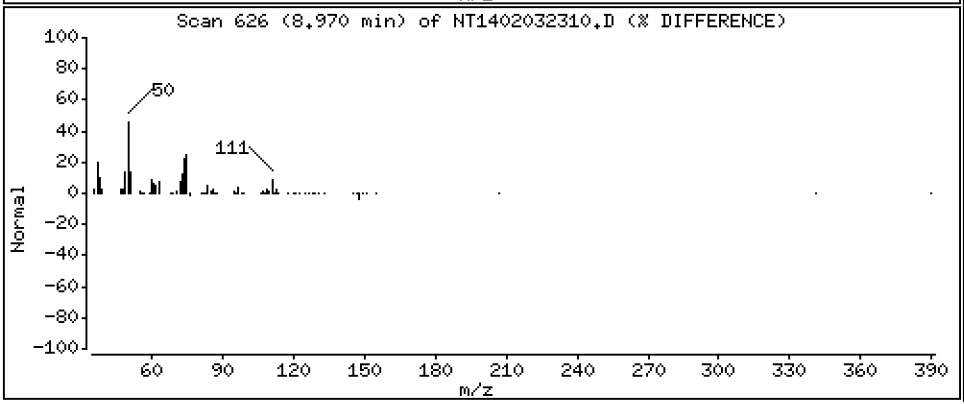
9 1,4-Dichlorobenzene

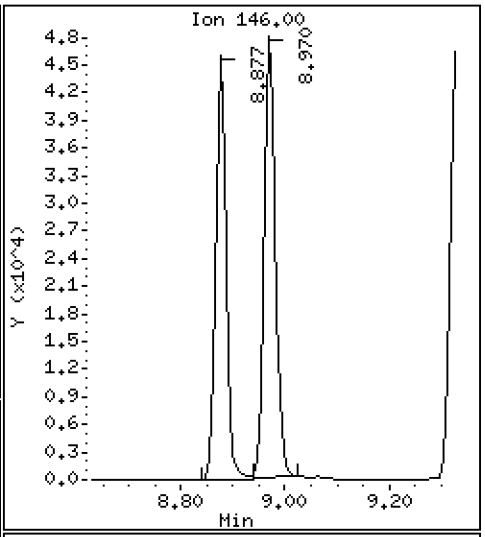
Concentration: 3.090 ug/mL

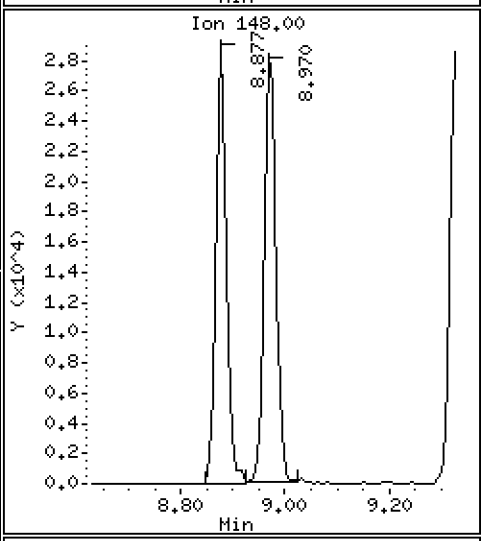


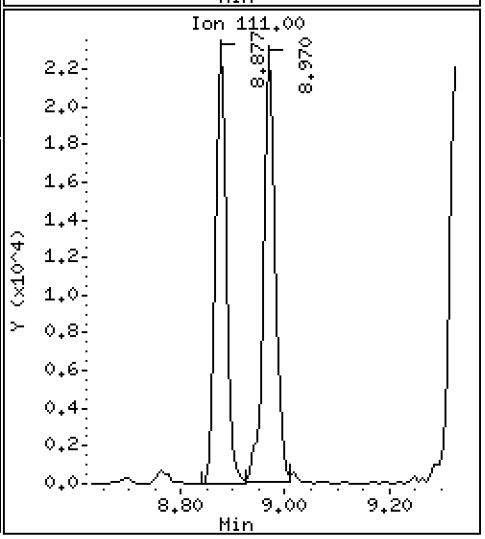












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

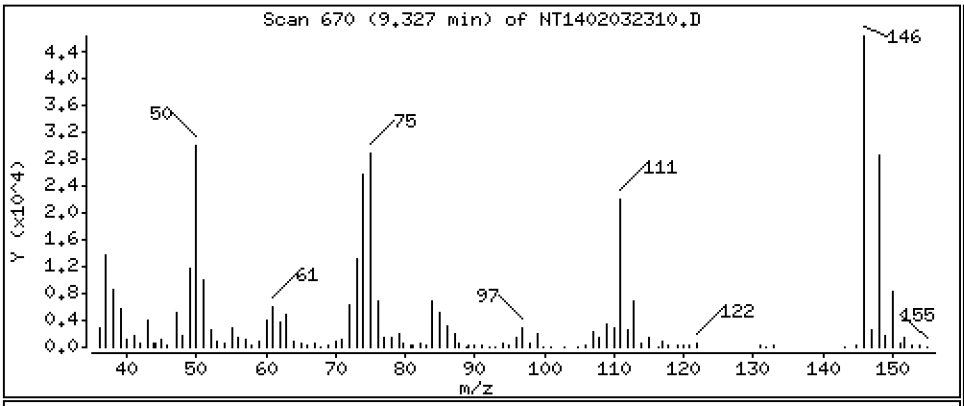
Operator: DSD

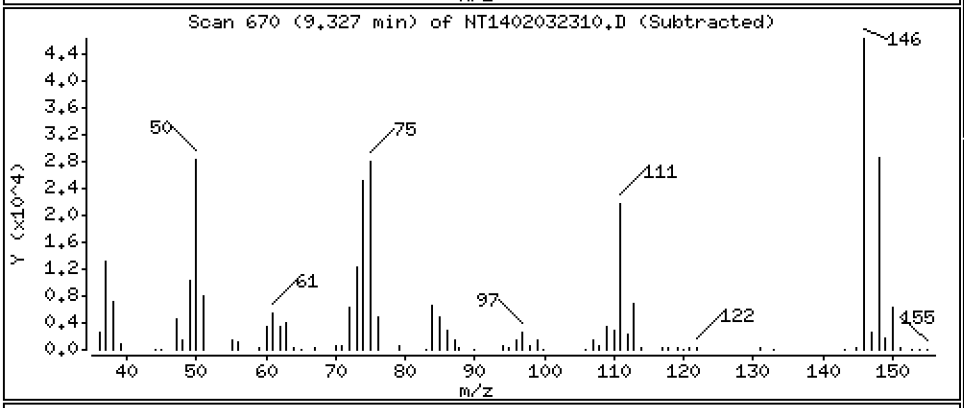
Column phase: ZB-5msi

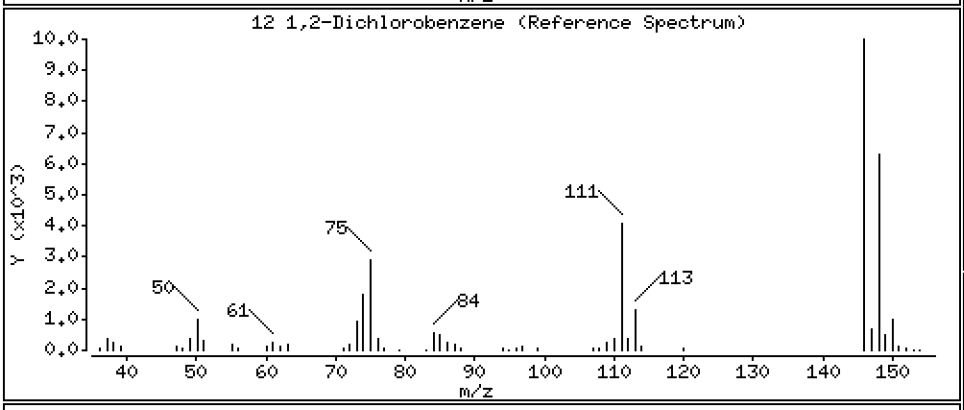
Column diameter: 0.25

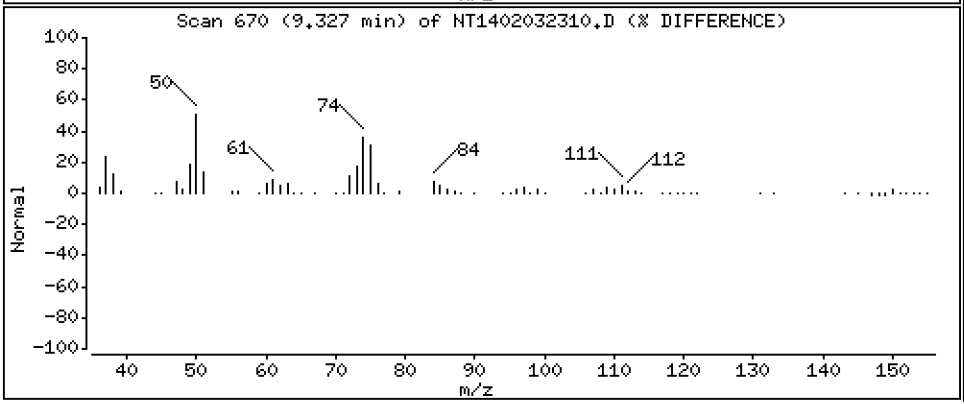
12 1,2-Dichlorobenzene

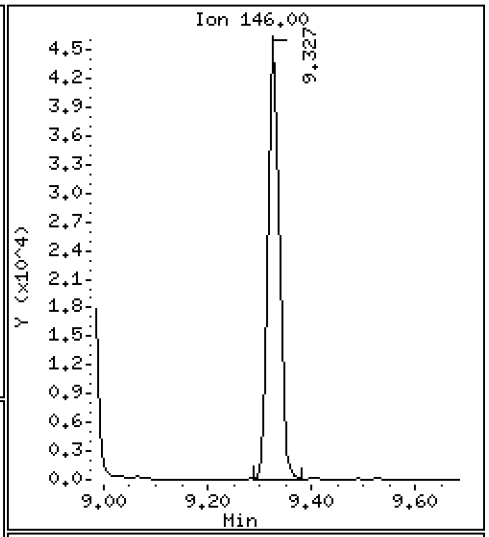
Concentration: 2.969 ug/mL

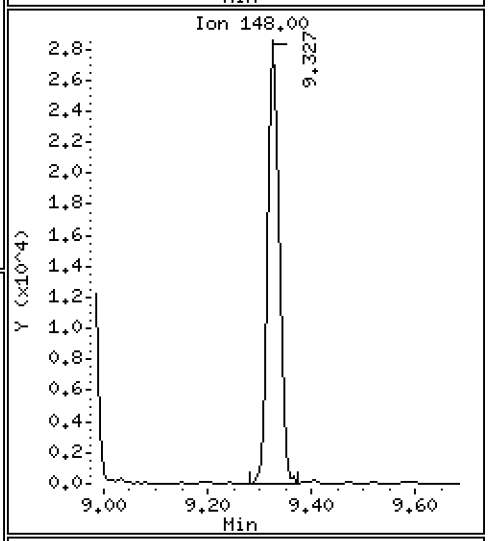


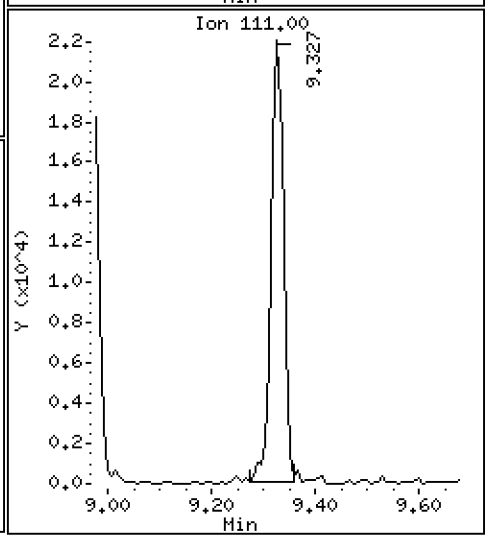












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

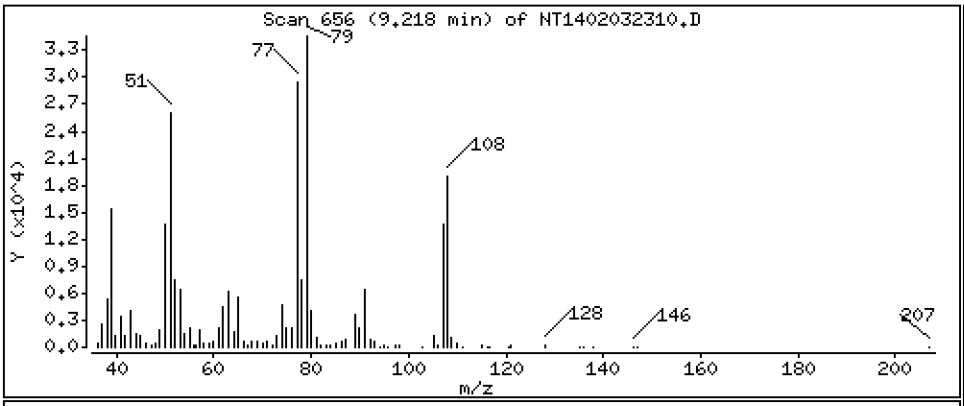
Operator: DSD

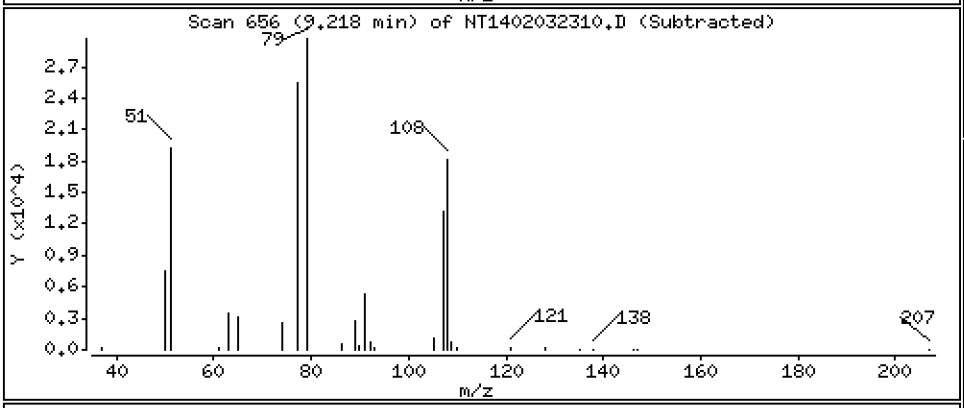
Column phase: ZB-5msi

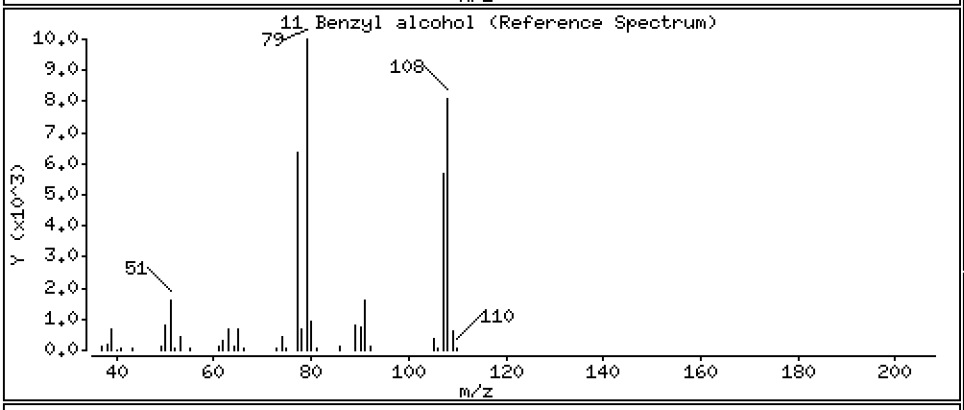
Column diameter: 0.25

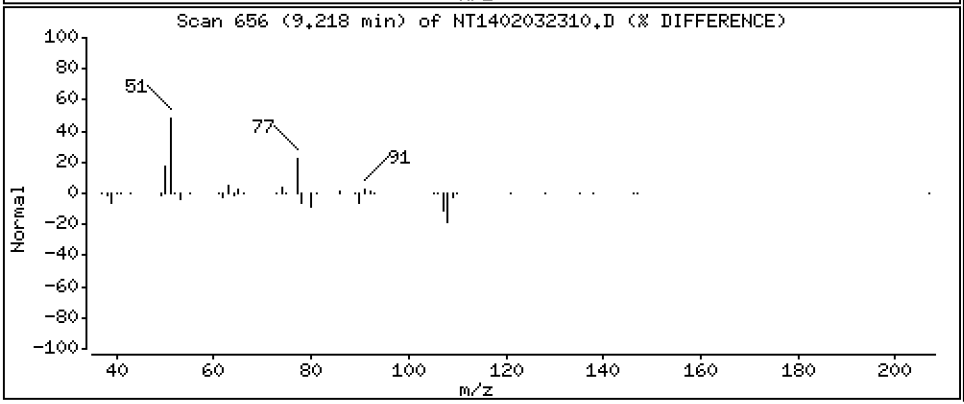
11 Benzyl alcohol

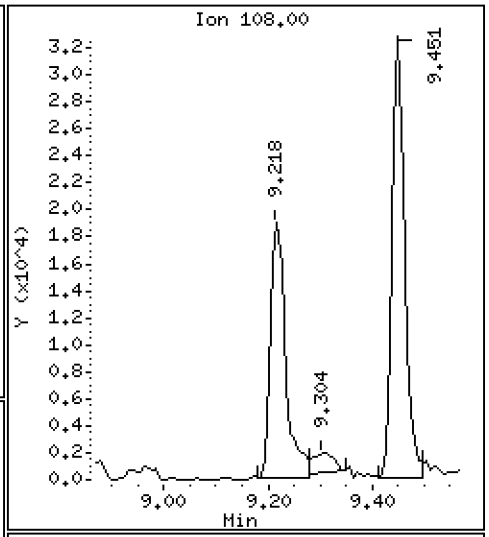
Concentration: 3.034 ug/mL

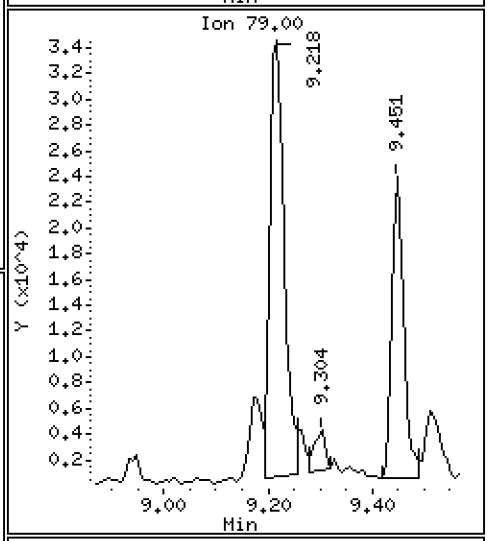


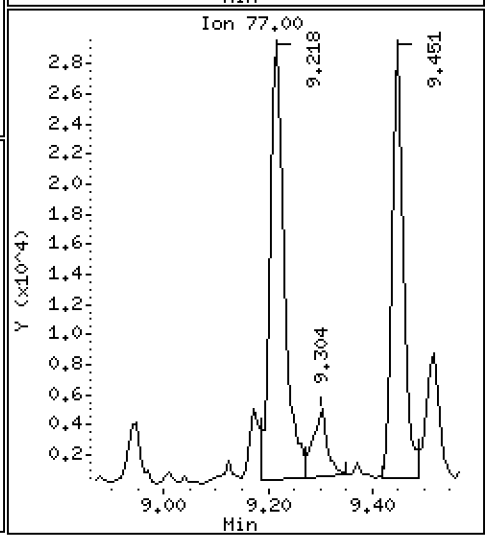












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

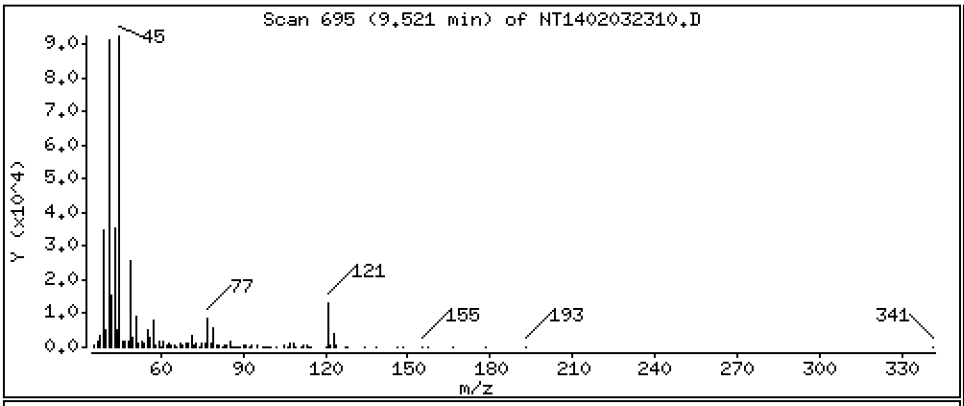
Operator: DSD

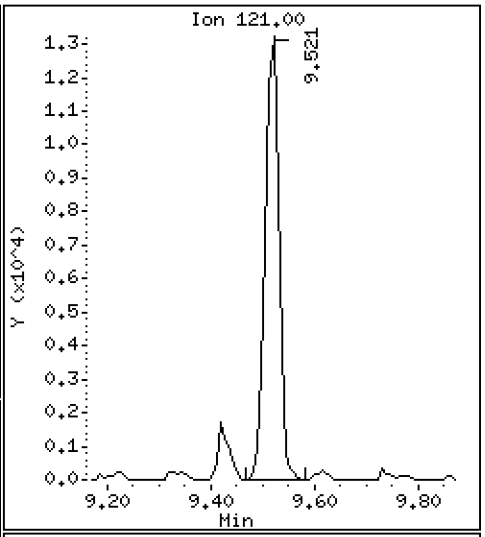
Column phase: ZB-5msi

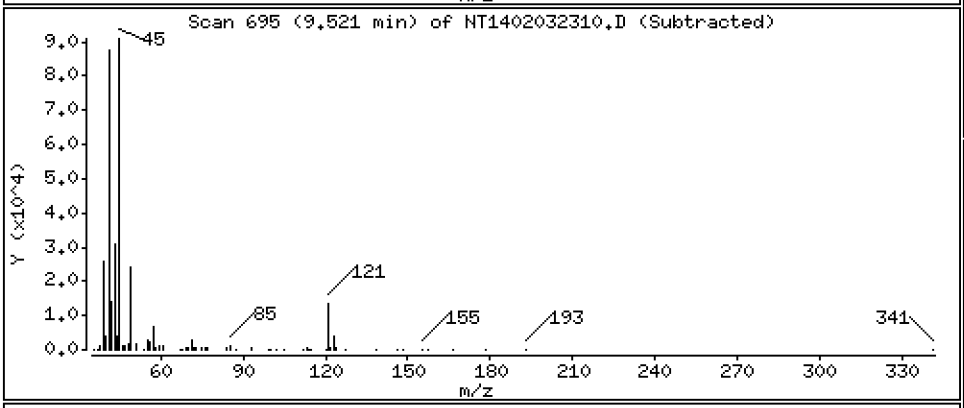
Column diameter: 0.25

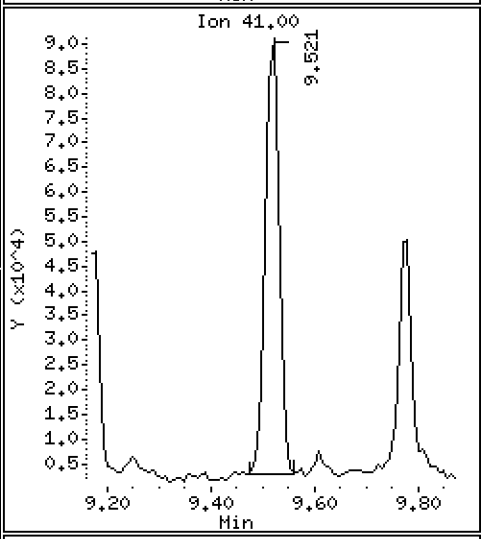
14 2,2'-oxybis(1-Chloropropane)

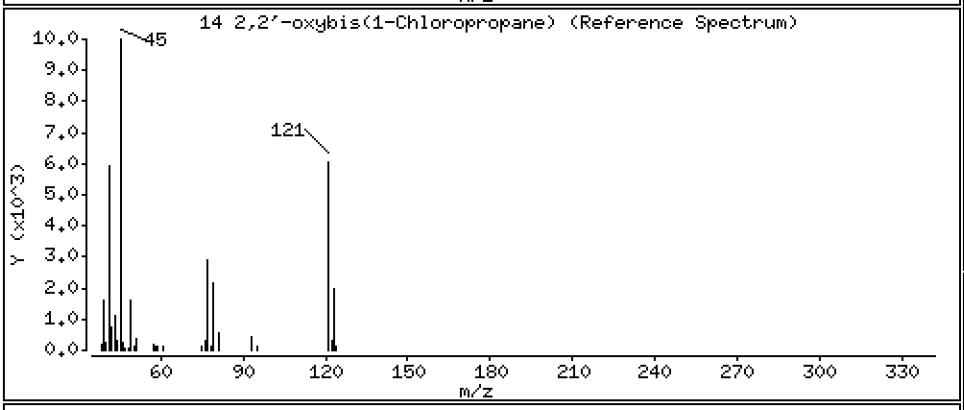
Concentration: 3.627 ug/mL

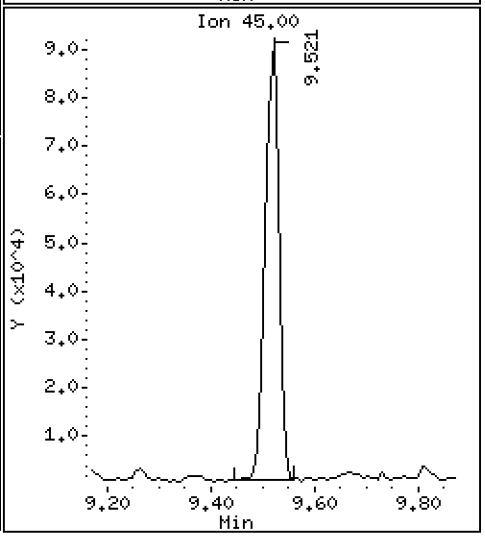


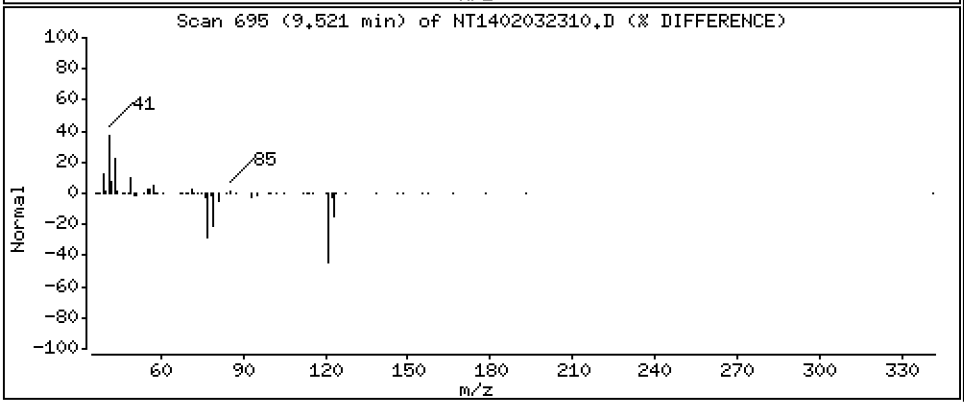












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

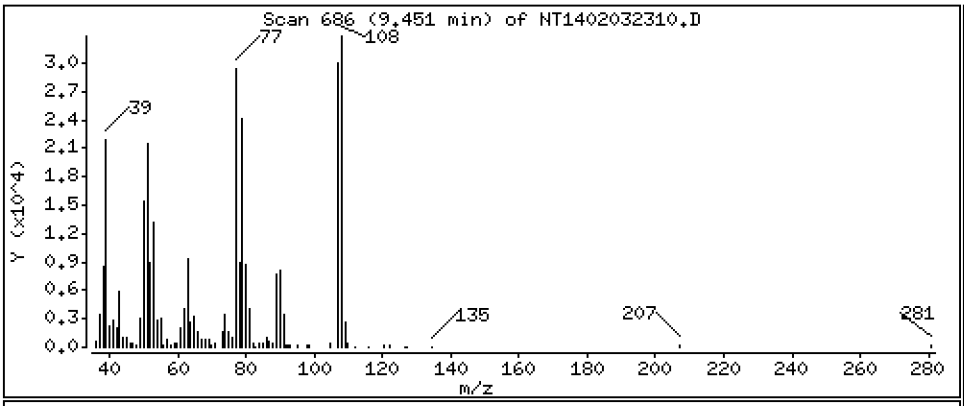
Operator: DSD

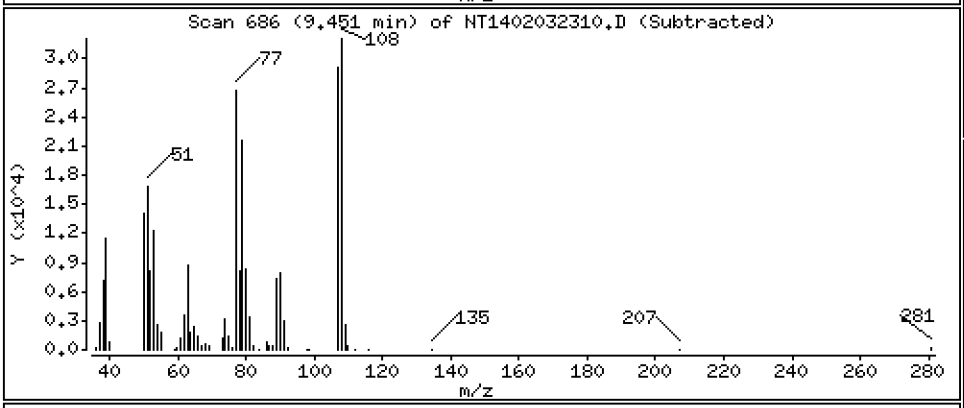
Column phase: ZB-5msi

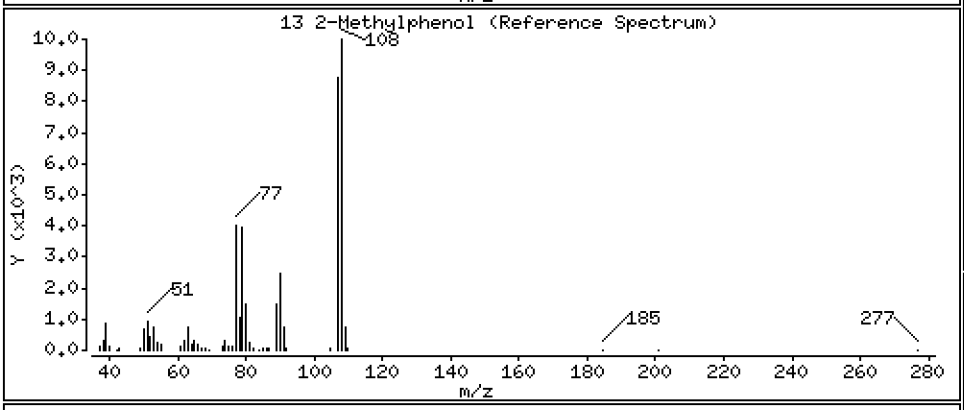
Column diameter: 0.25

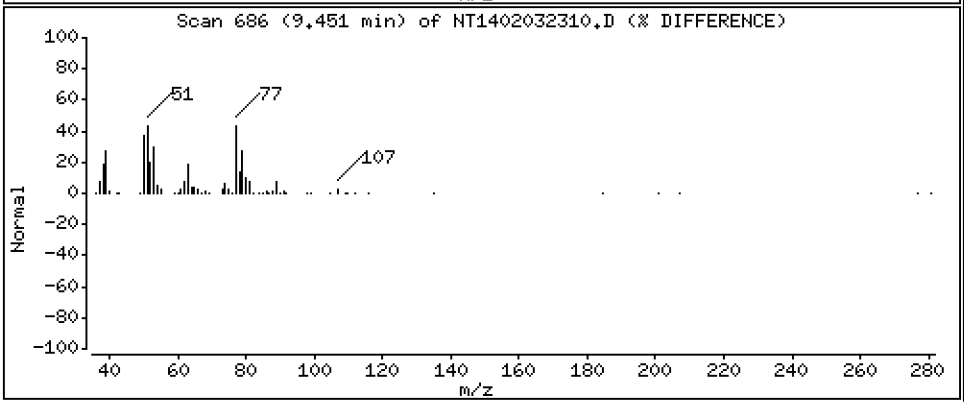
13 2-Methylphenol

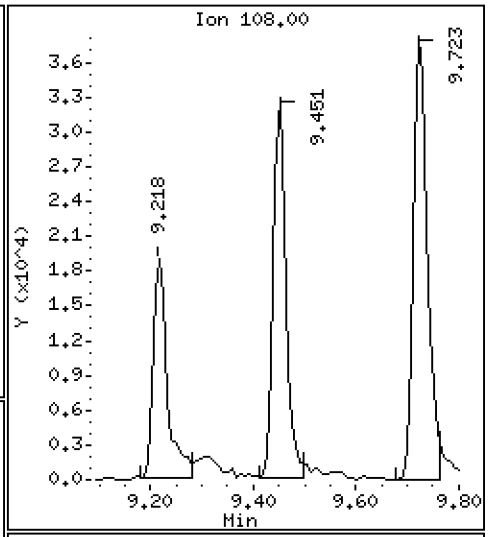
Concentration: 2.730 ug/mL

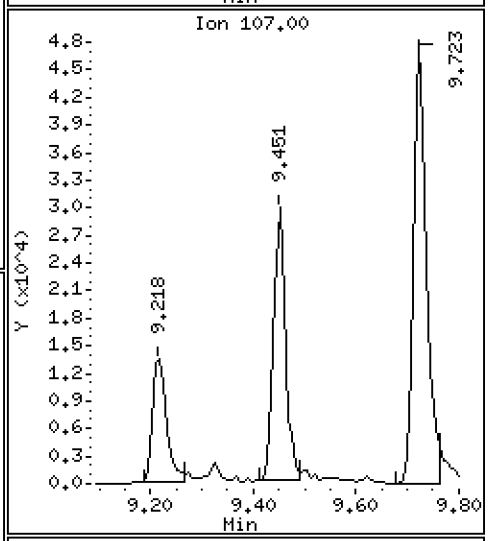


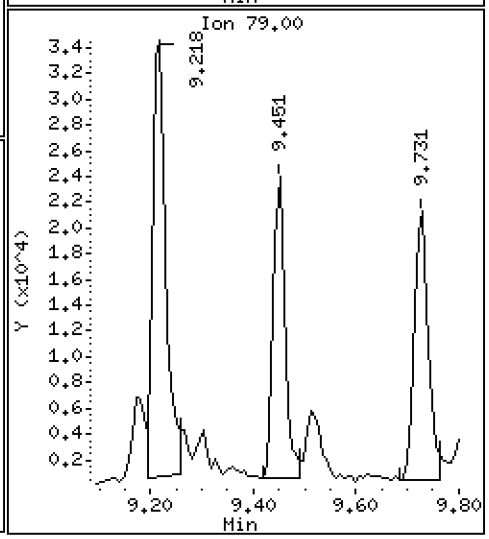












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

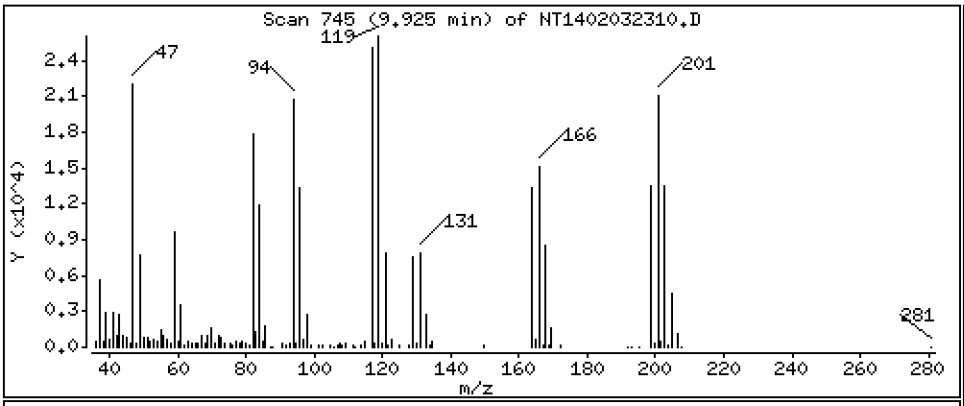
Operator: DSD

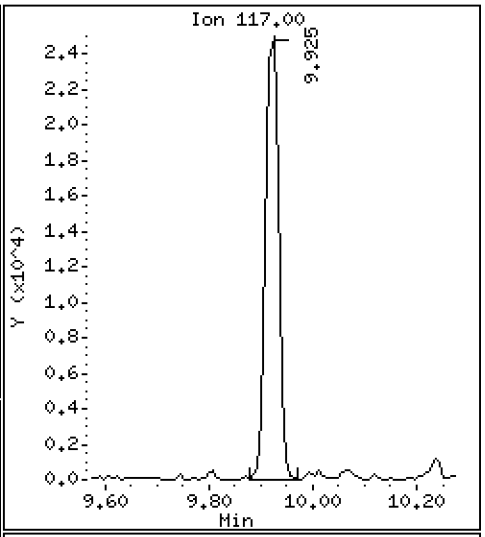
Column phase: ZB-5msi

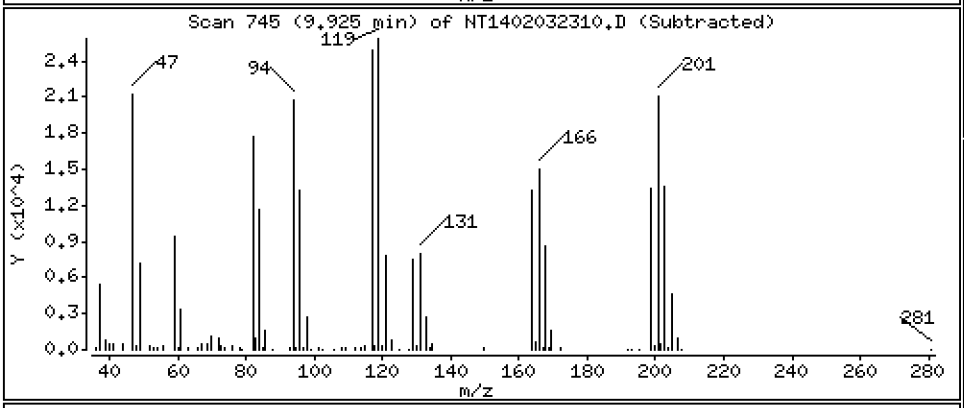
Column diameter: 0.25

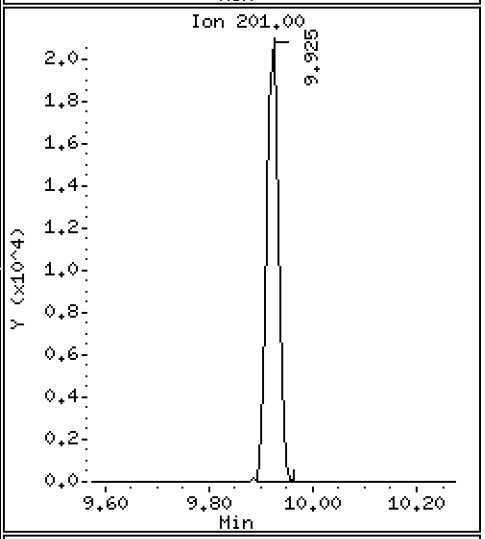
17 Hexachloroethane

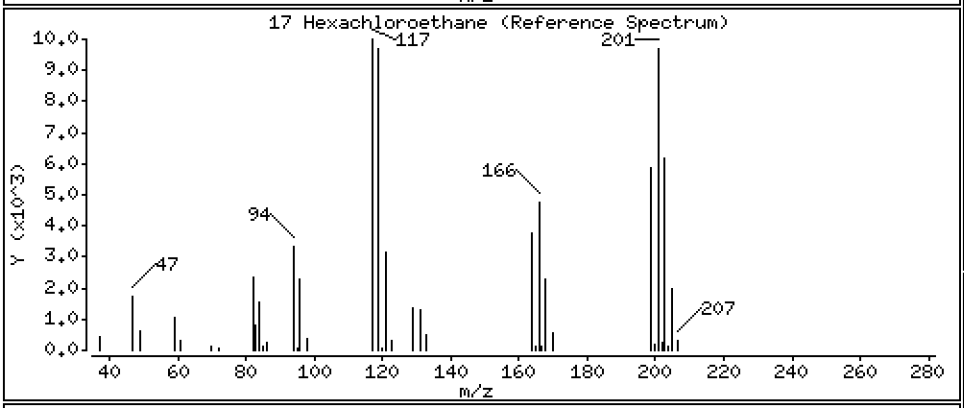
Concentration: 2.956 ug/mL

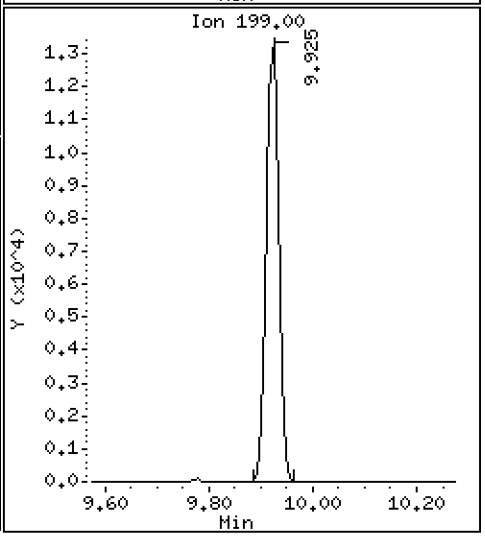


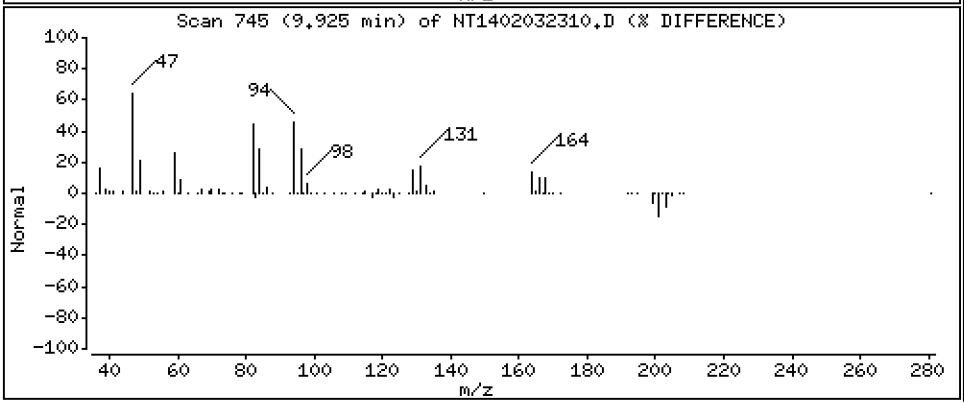












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

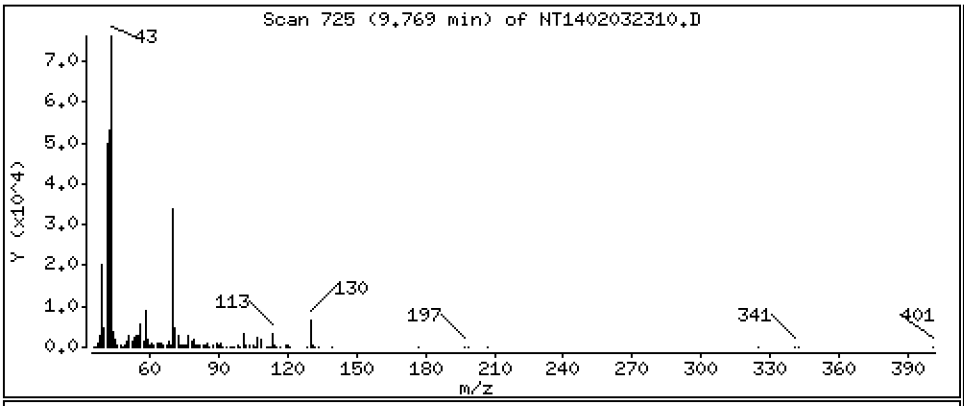
Operator: DSD

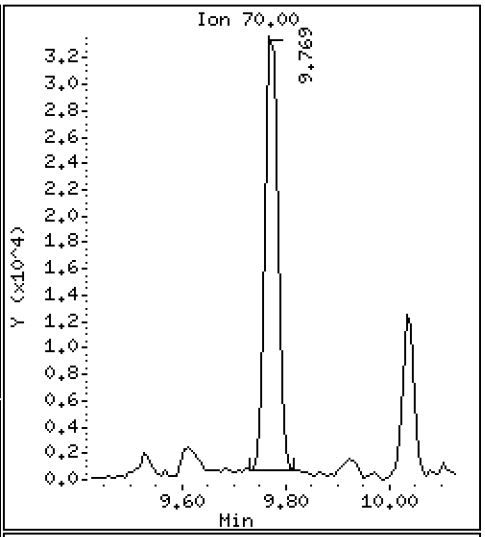
Column phase: ZB-5msi

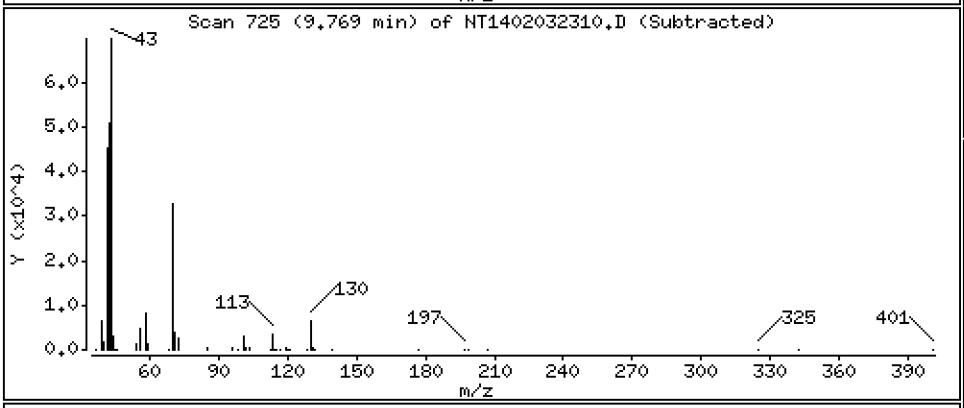
Column diameter: 0.25

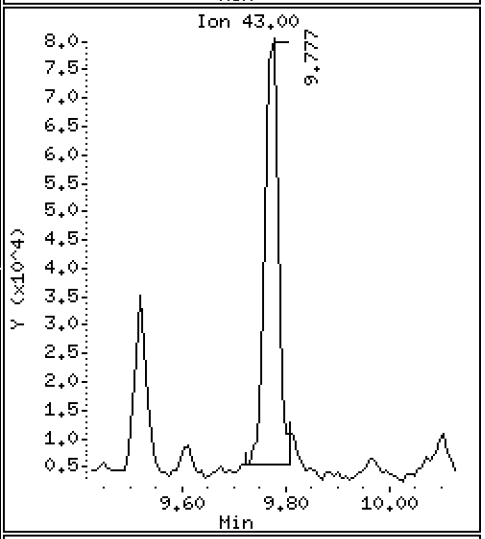
16 N-Nitroso-di-n-propylamine

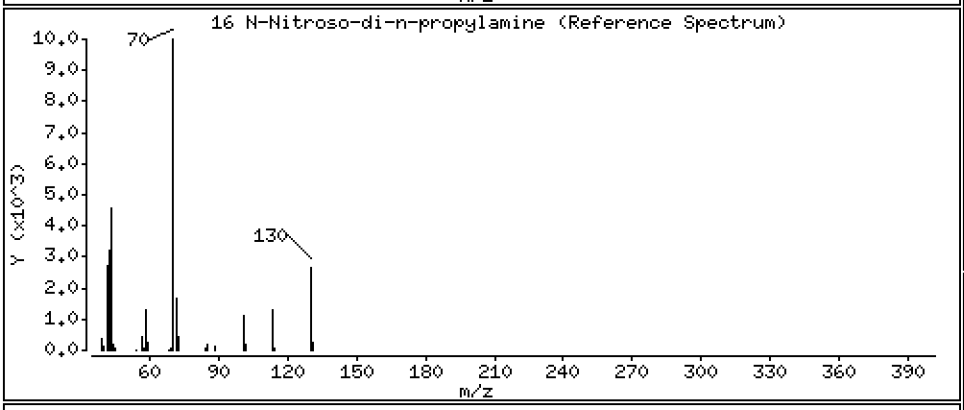
Concentration: 3.200 ug/mL

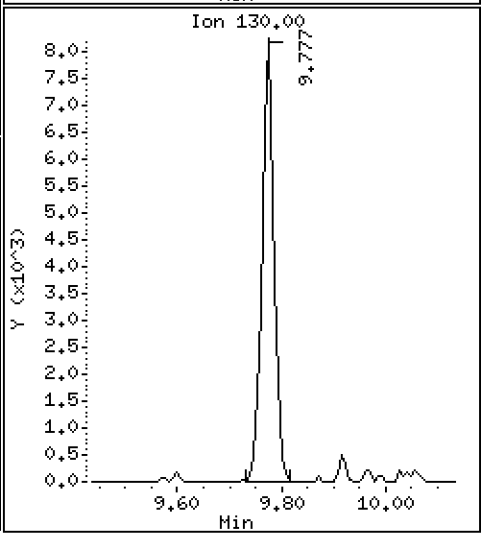


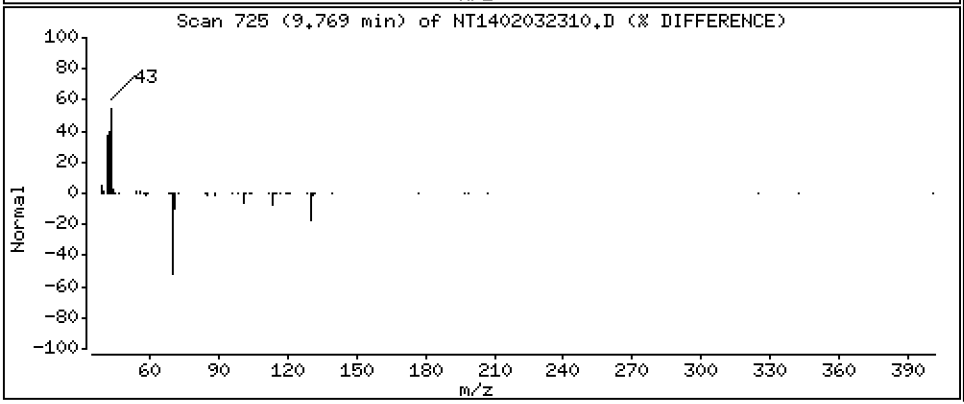












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

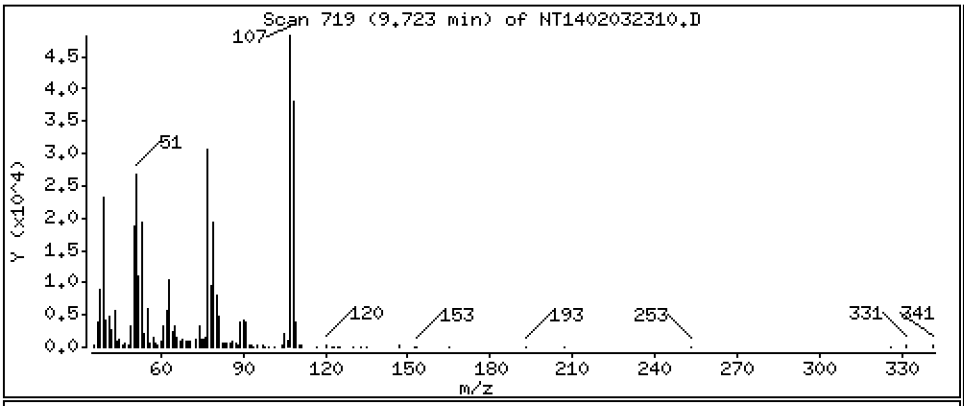
Operator: DSD

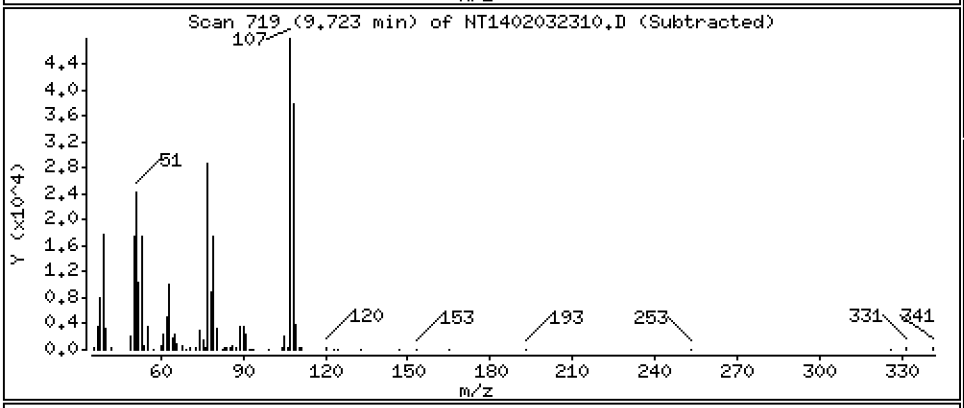
Column phase: ZB-5msi

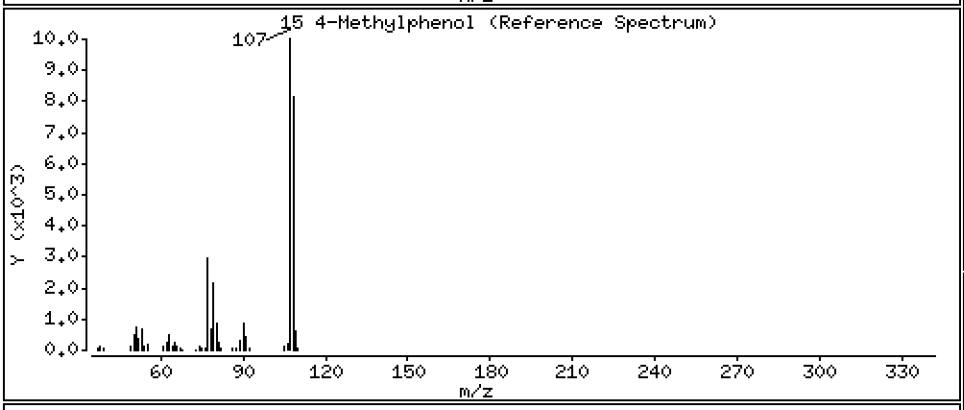
Column diameter: 0.25

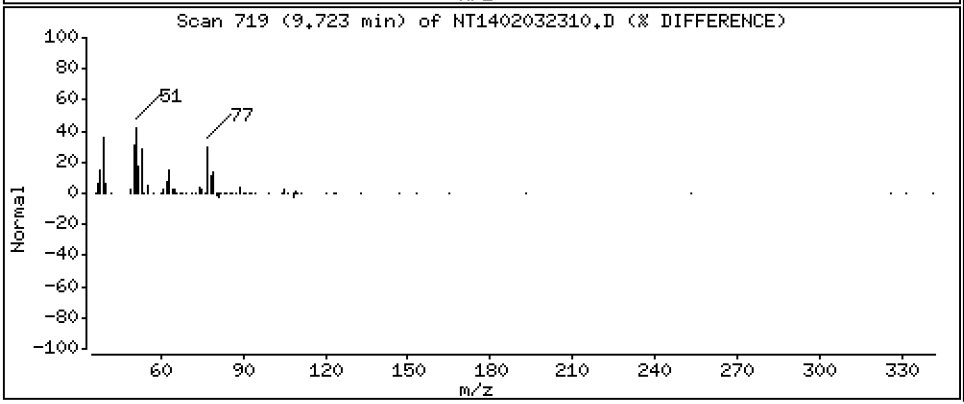
15 4-Methylphenol

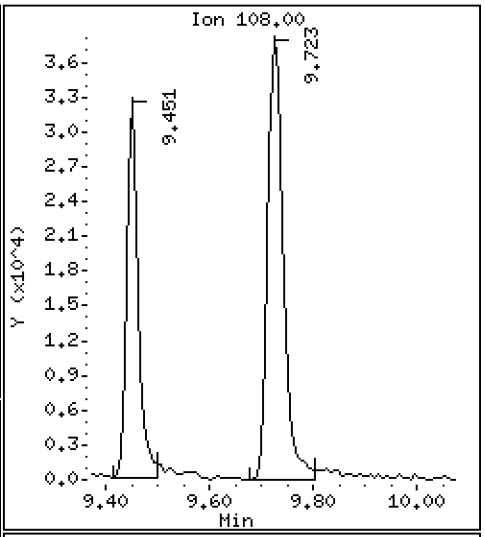
Concentration: 3.551 ug/mL

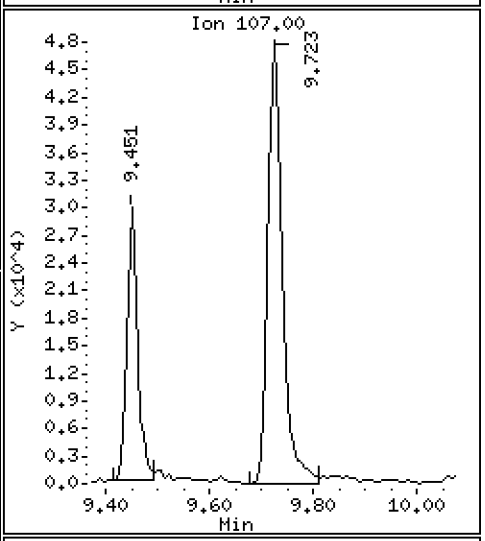


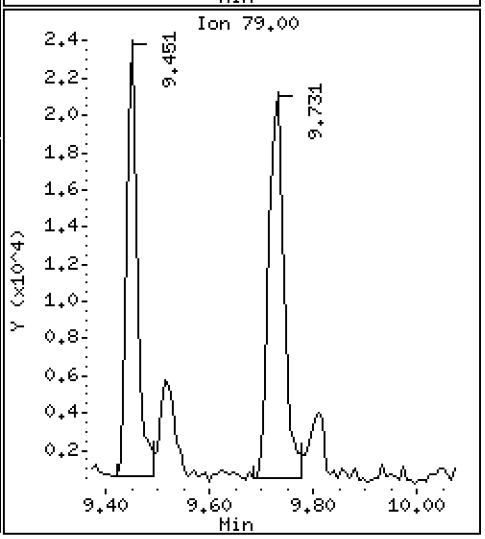












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

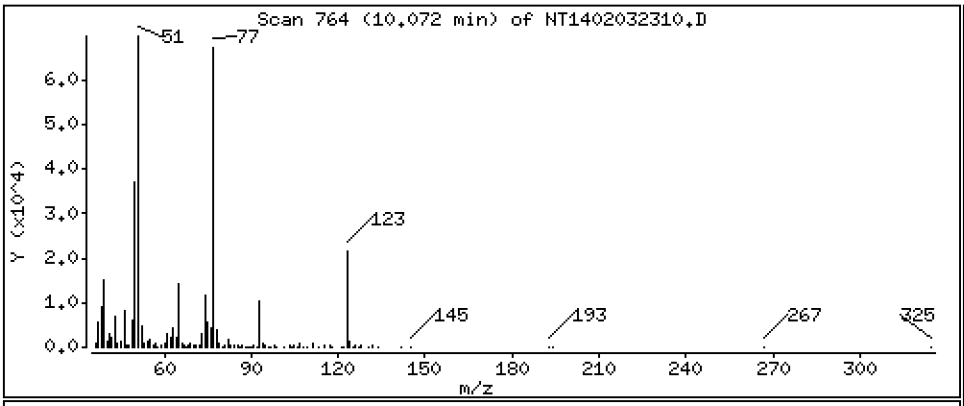
Operator: DSD

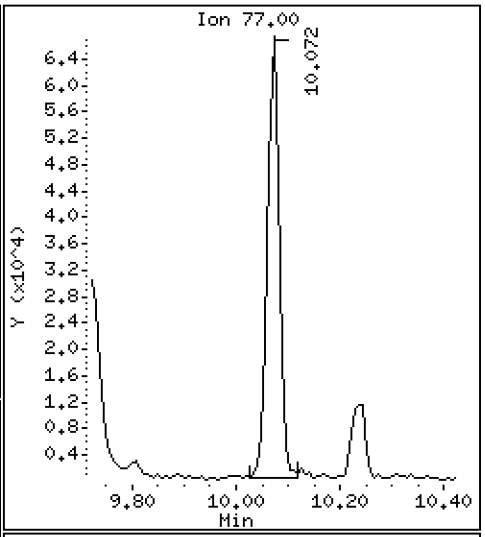
Column phase: ZB-5msi

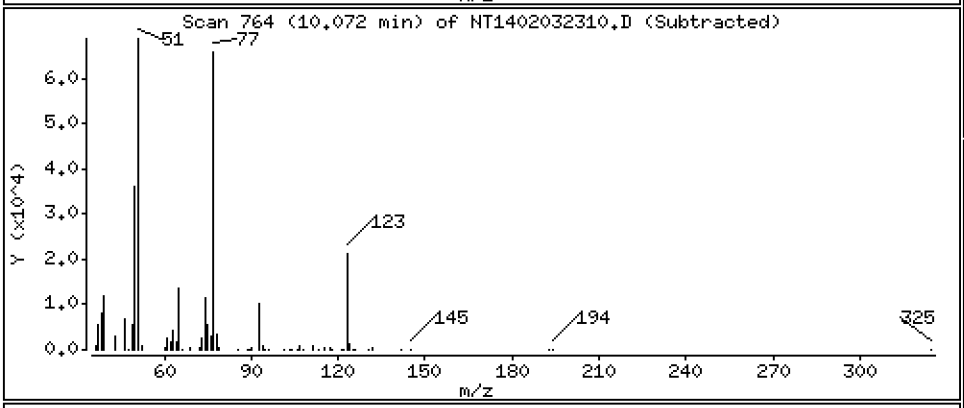
Column diameter: 0.25

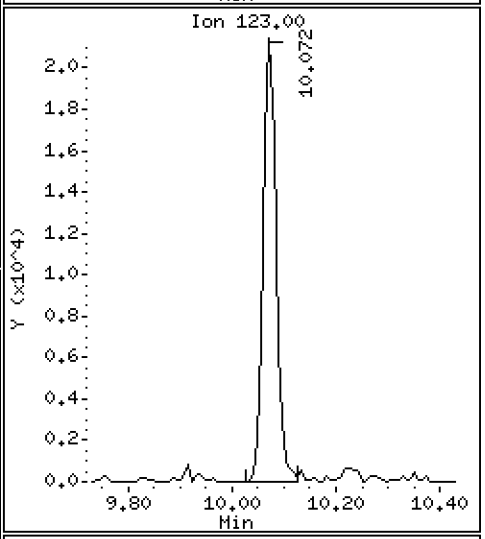
19 Nitrobenzene

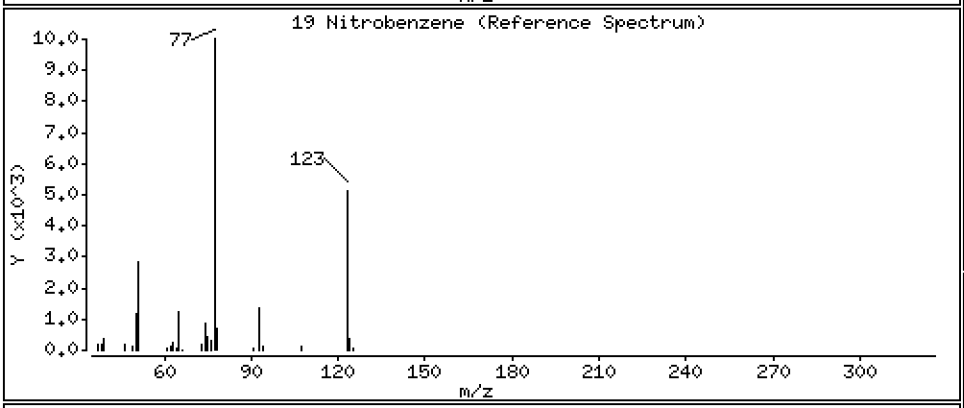
Concentration: 3.036 ug/mL

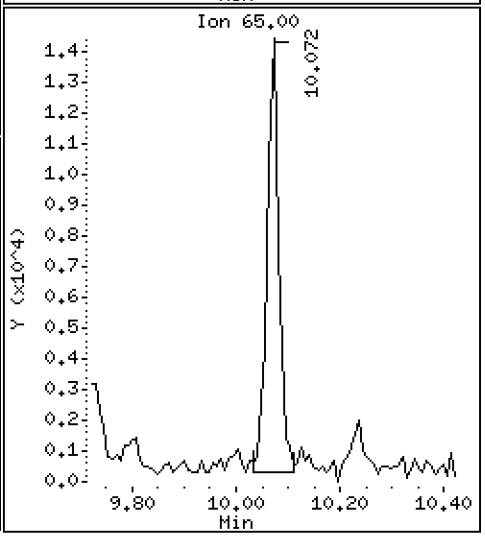


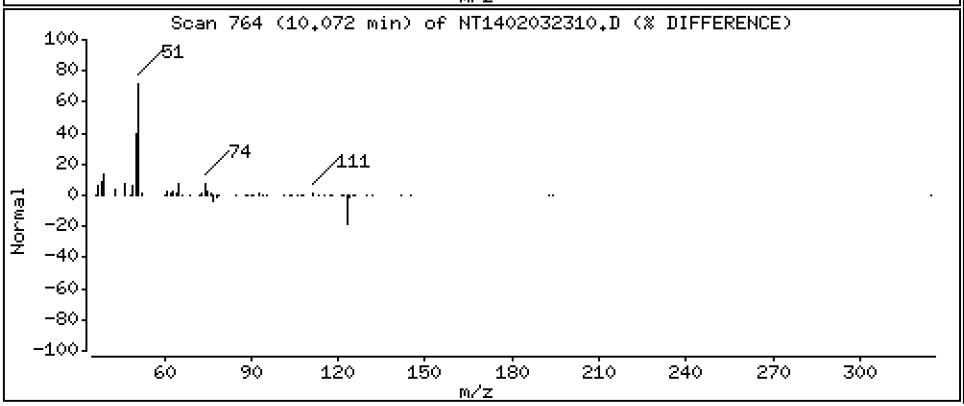












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

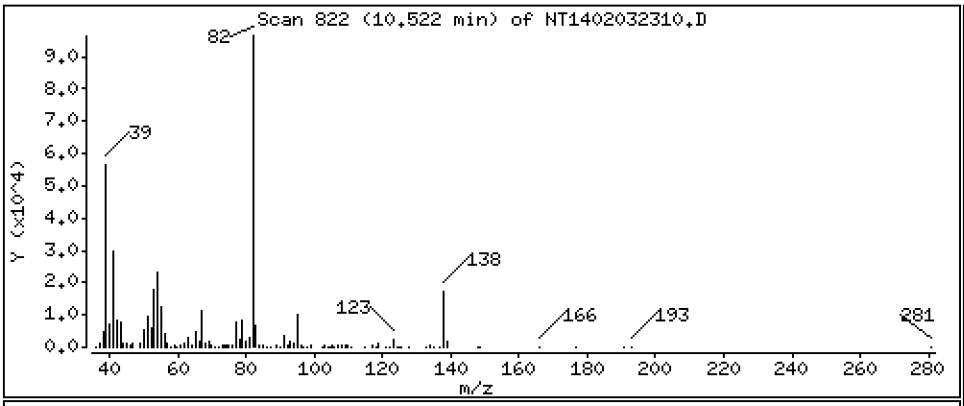
Operator: DSD

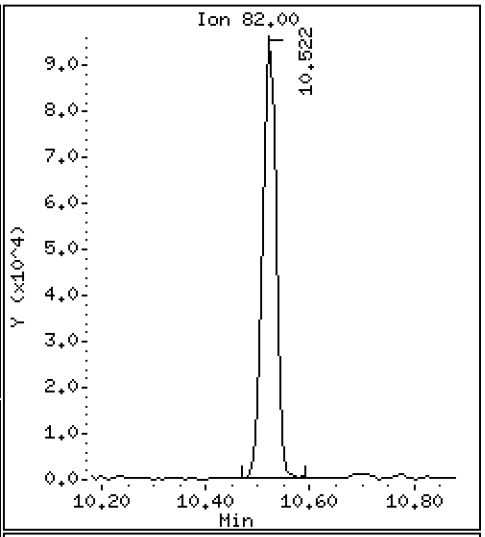
Column phase: ZB-5msi

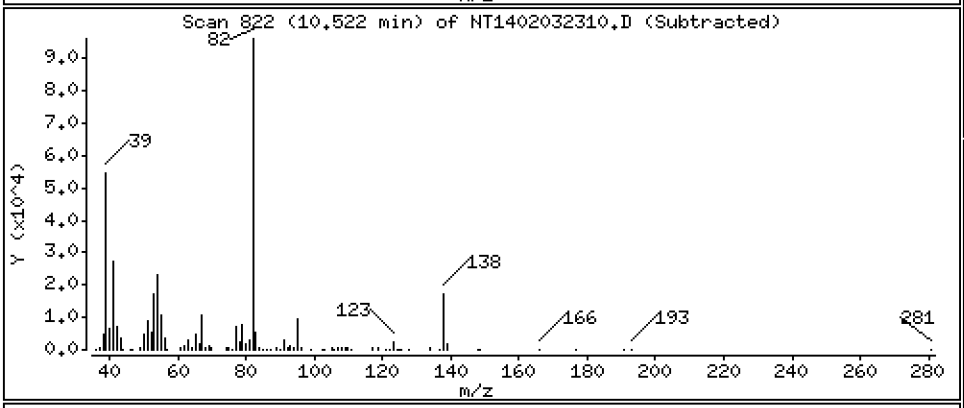
Column diameter: 0.25

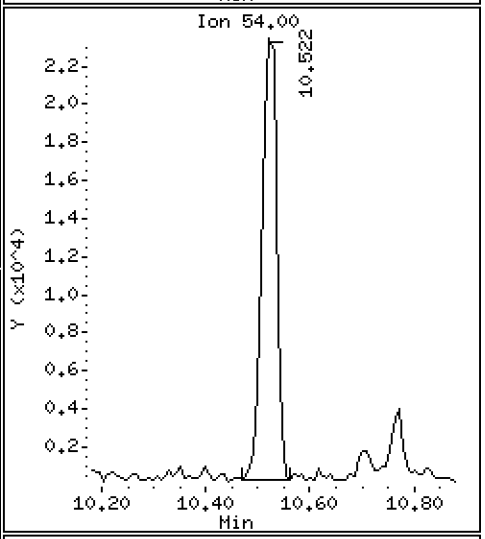
20 Isophorone

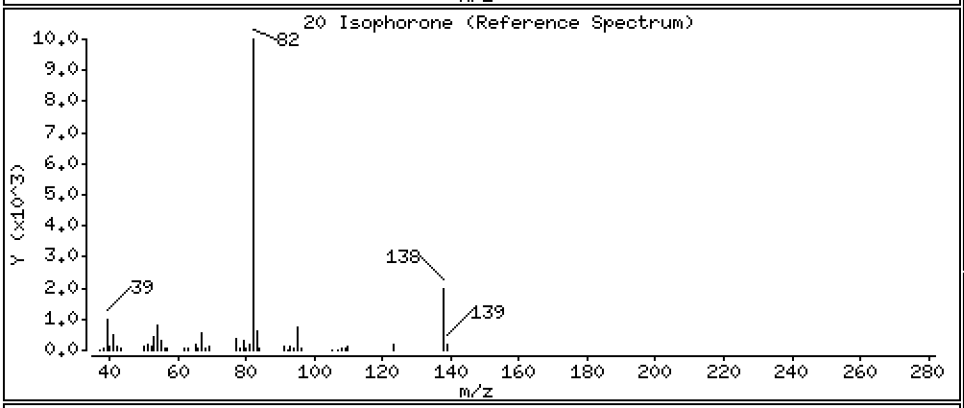
Concentration: 4.378 ug/mL

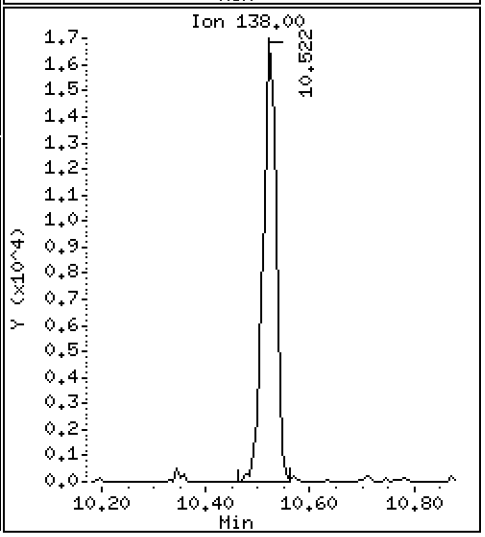


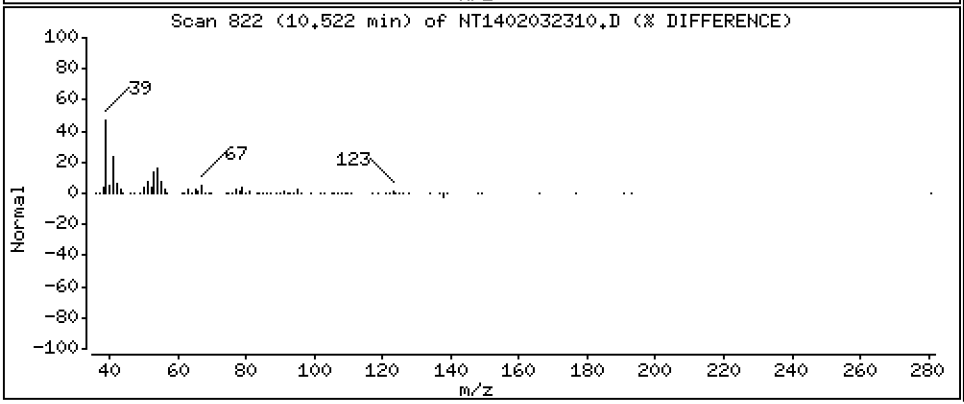












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

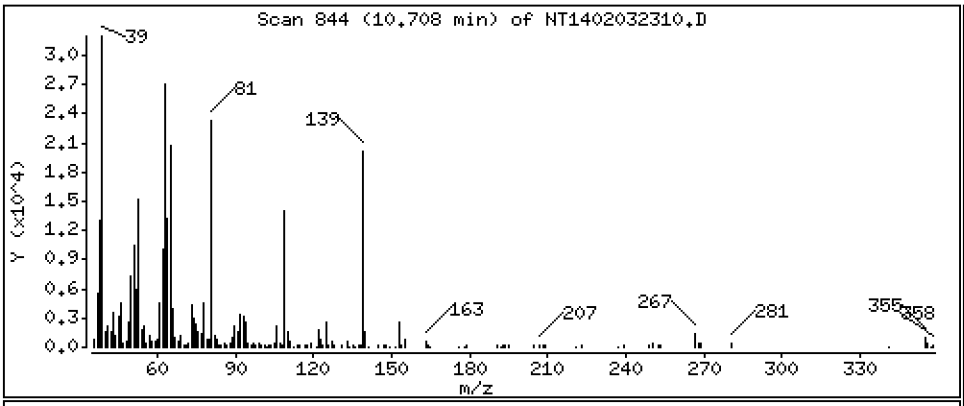
Operator: DSD

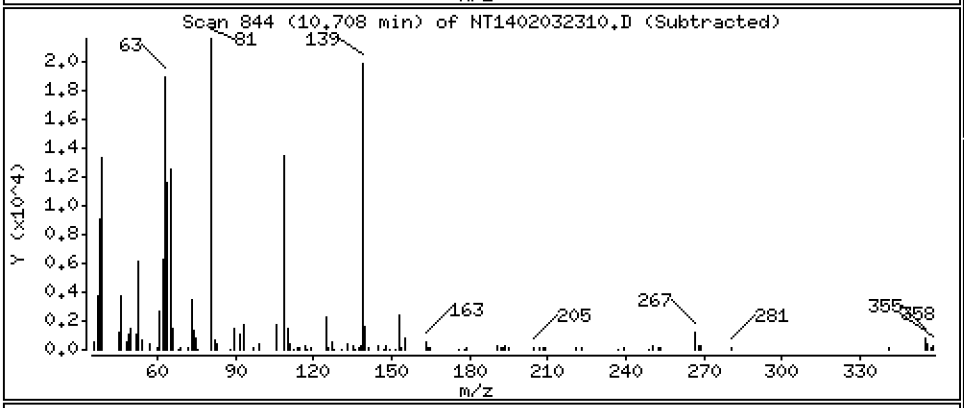
Column phase: ZB-5msi

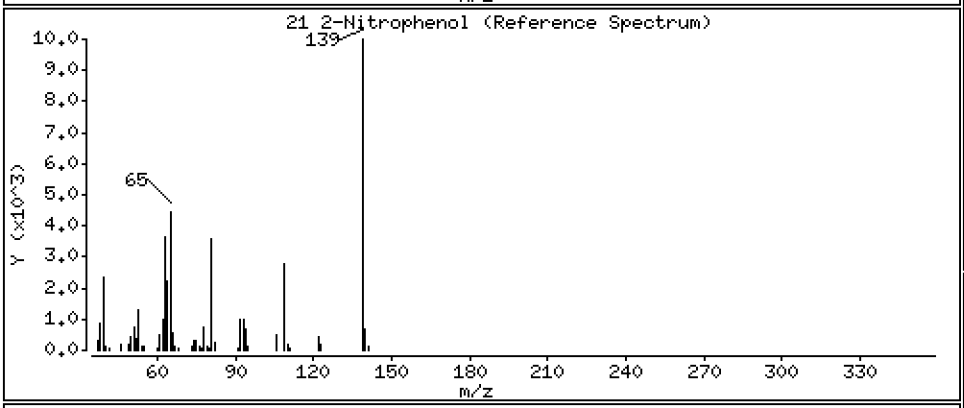
Column diameter: 0.25

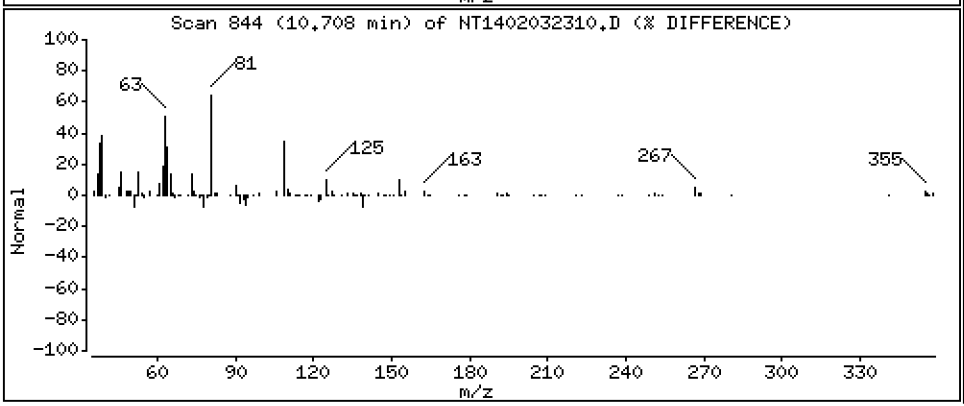
21 2-Nitrophenol

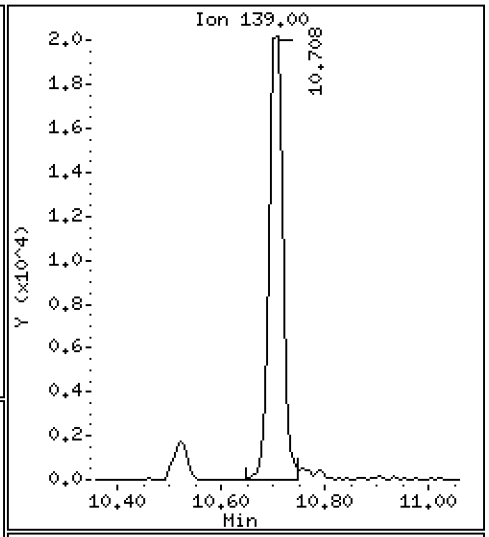
Concentration: 3.263 ug/mL

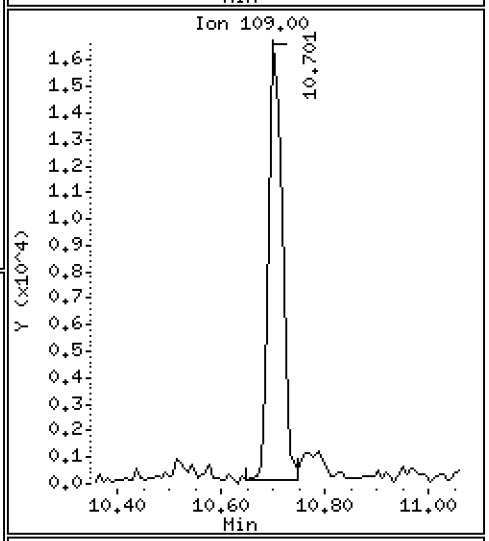


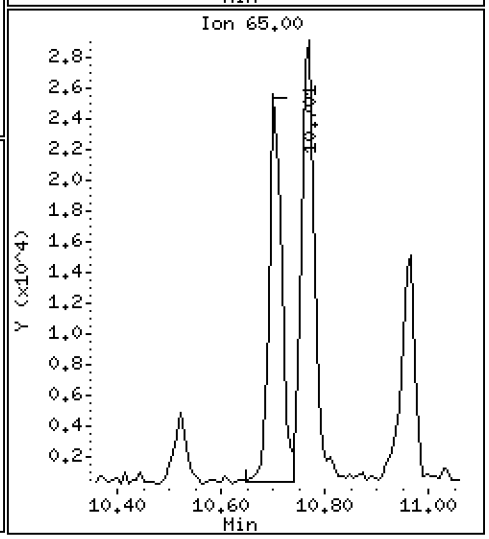












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

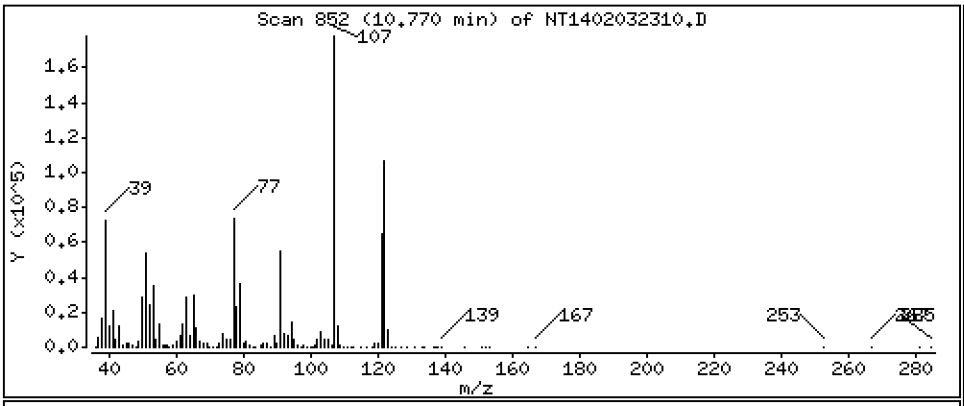
Operator: DSD

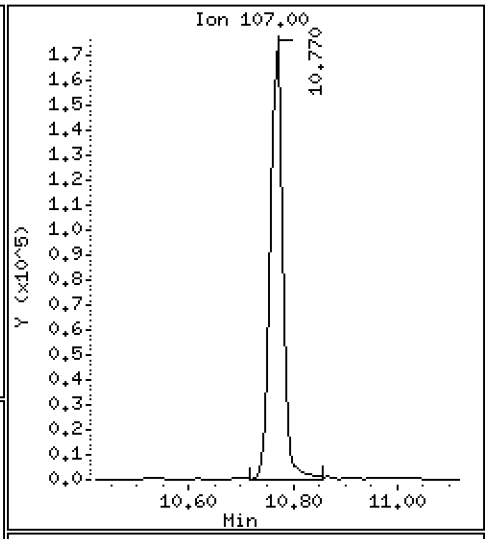
Column phase: ZB-5msi

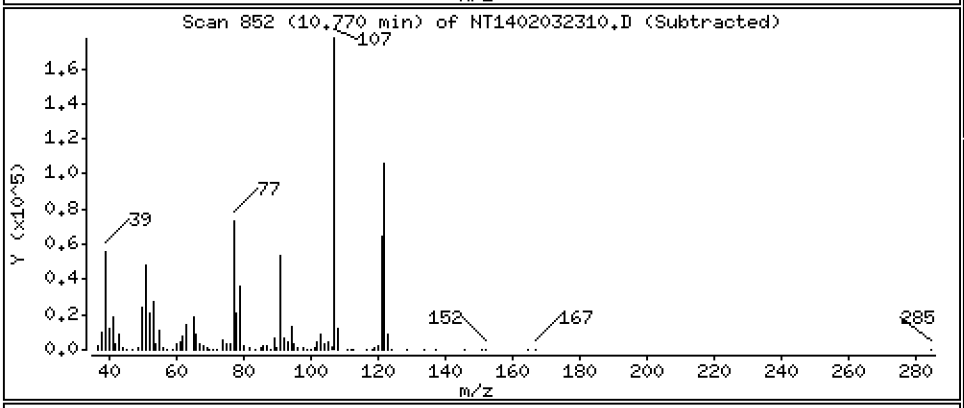
Column diameter: 0.25

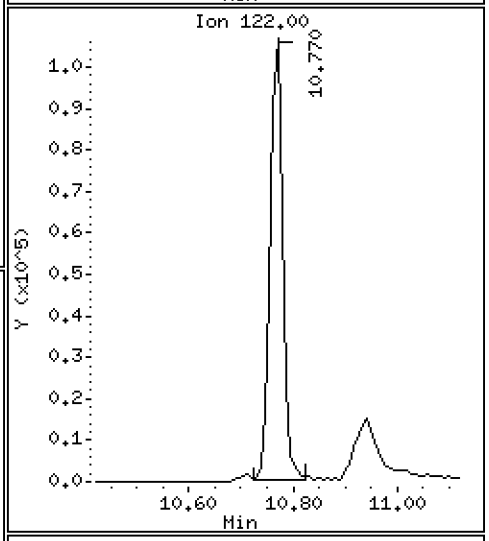
22 2,4-Dimethylphenol

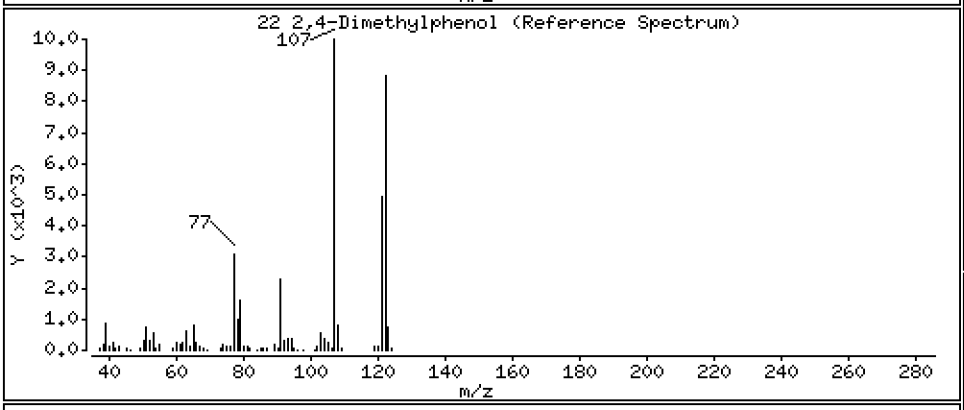
Concentration: 8.147 ug/mL

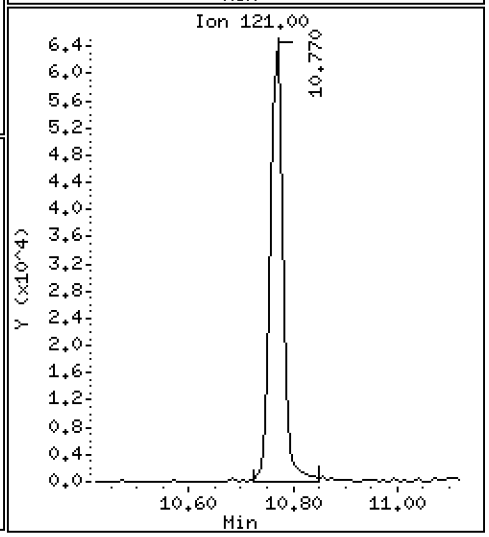


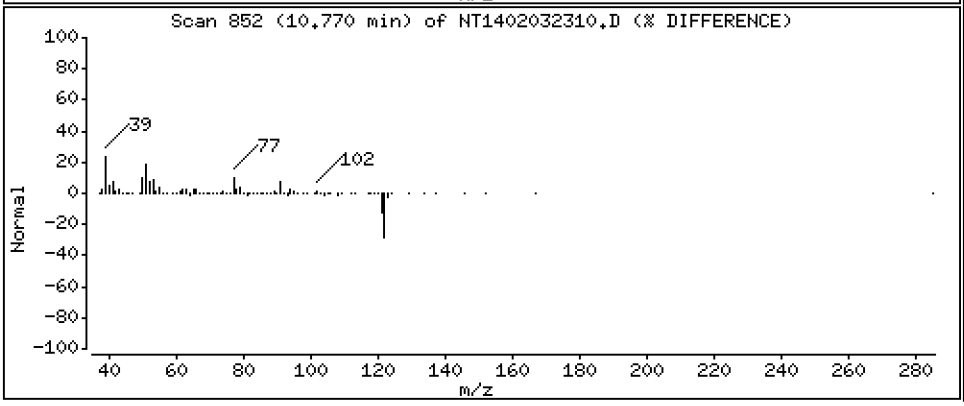












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

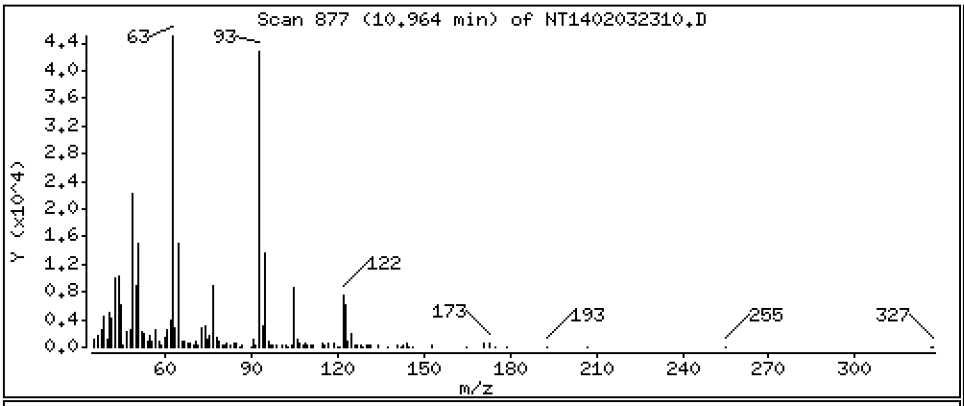
Operator: DSD

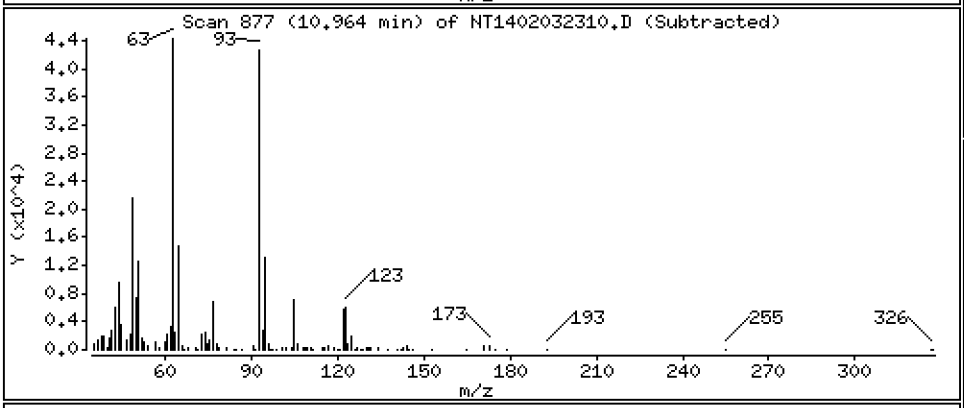
Column phase: ZB-5msi

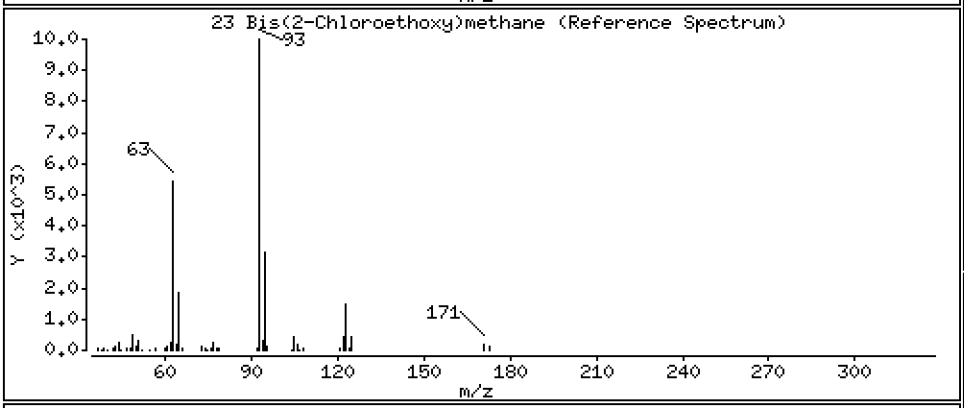
Column diameter: 0.25

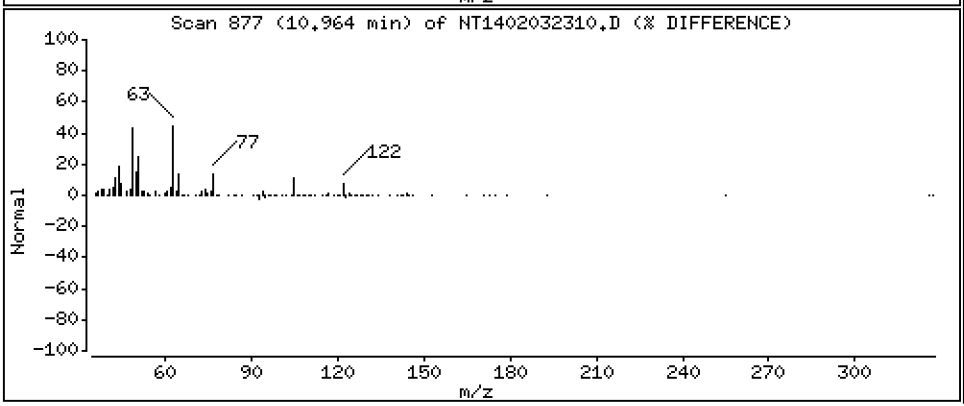
23 Bis(2-Chloroethoxy)methane

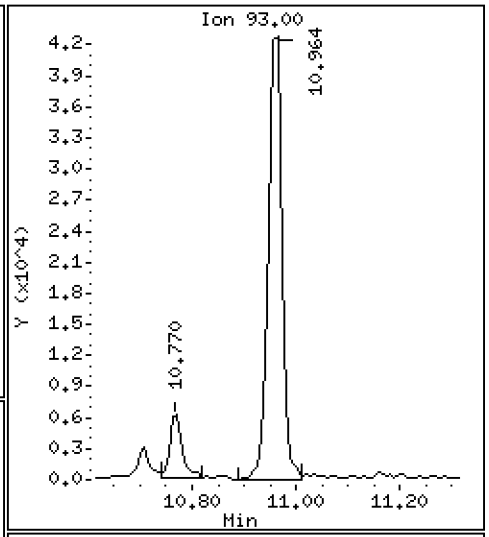
Concentration: 3.921 ug/mL

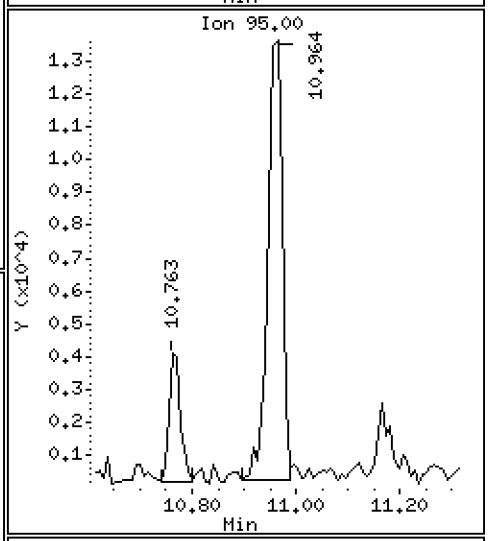


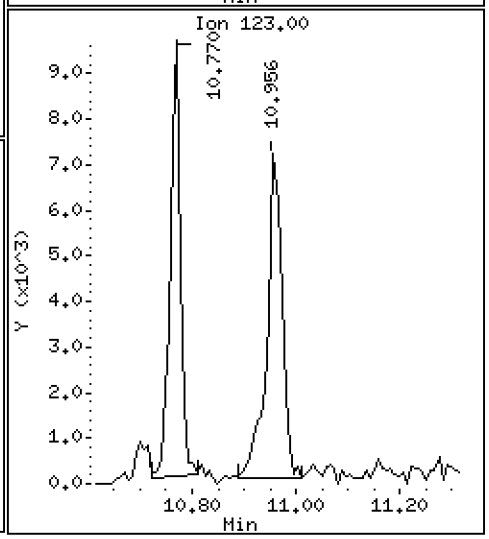












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

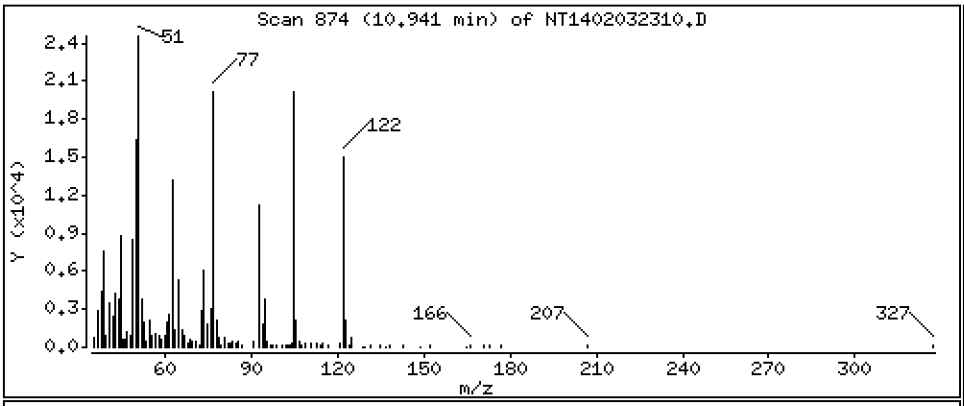
Operator: DSD

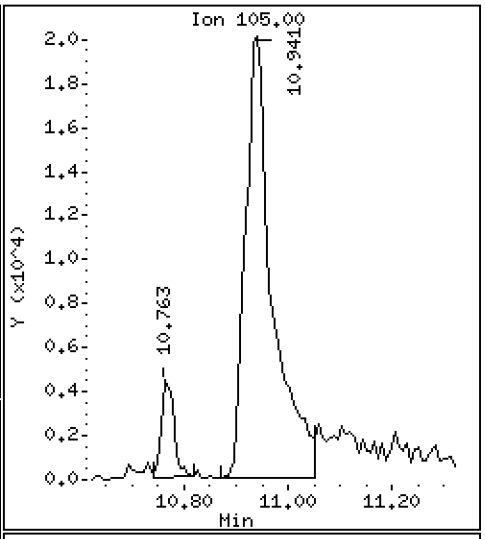
Column phase: ZB-5msi

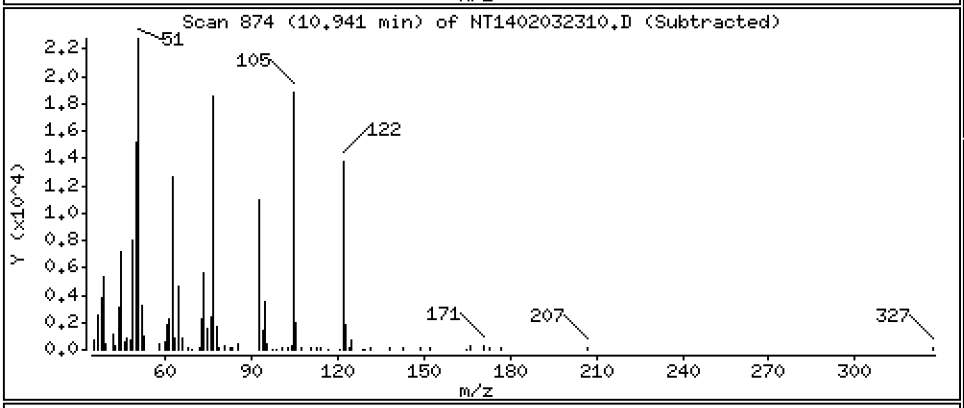
Column diameter: 0.25

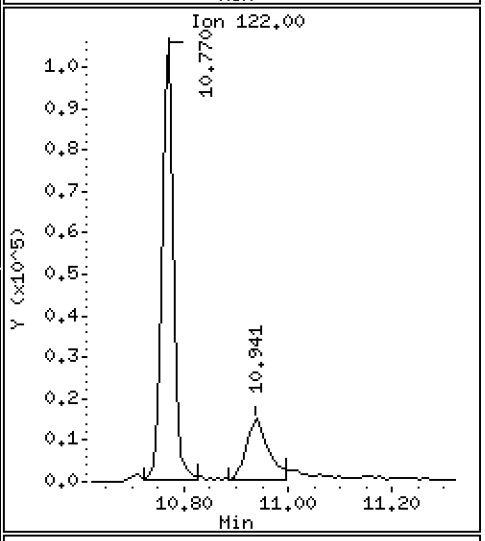
24 Benzoic acid

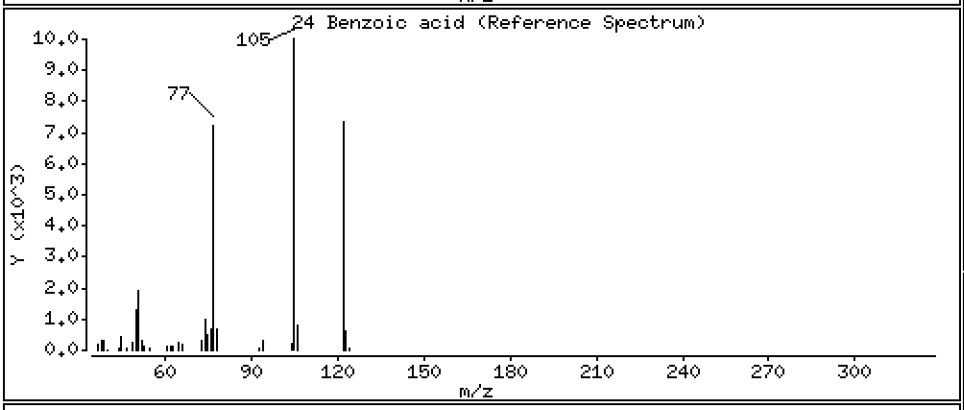
Concentration: 3.726 ug/mL

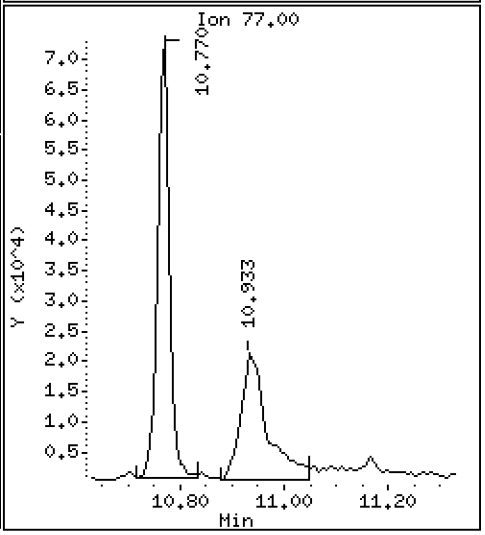


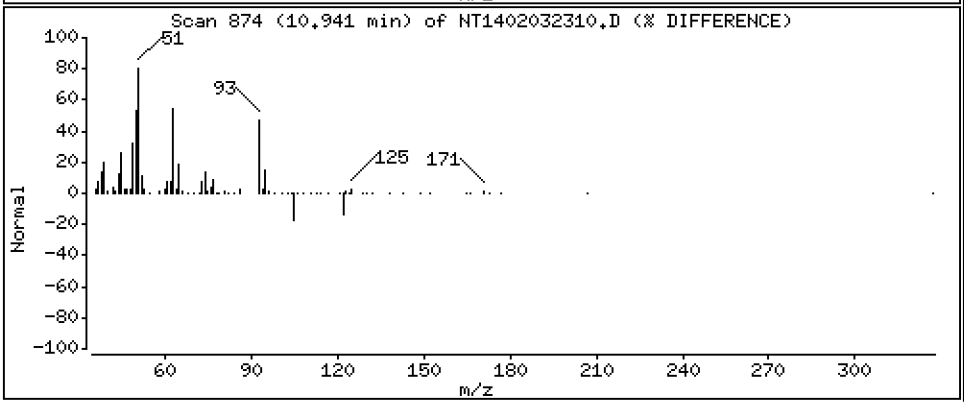












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

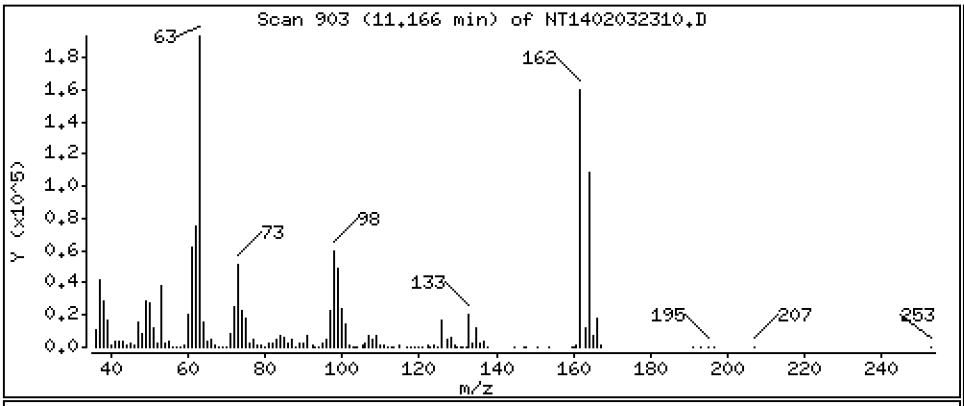
Operator: DSD

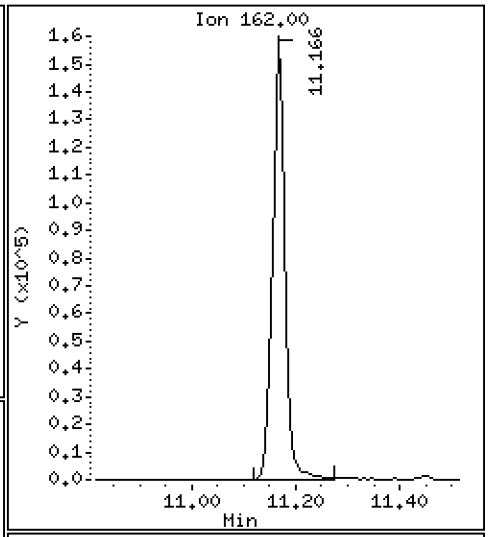
Column phase: ZB-5msi

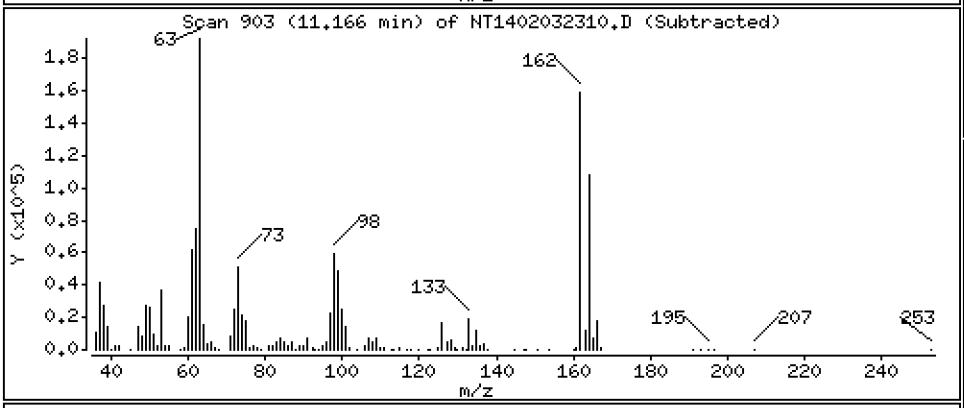
Column diameter: 0.25

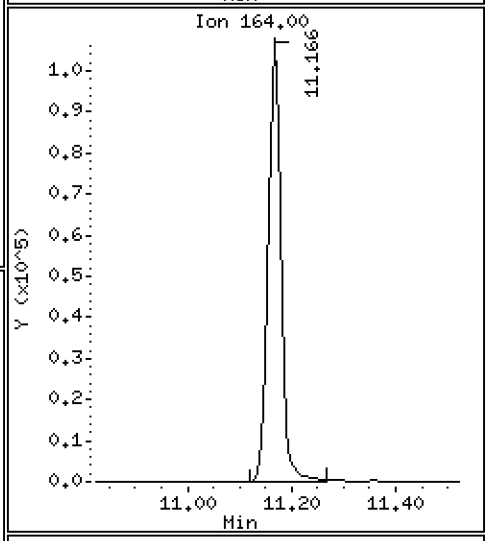
25 2,4-Dichlorophenol

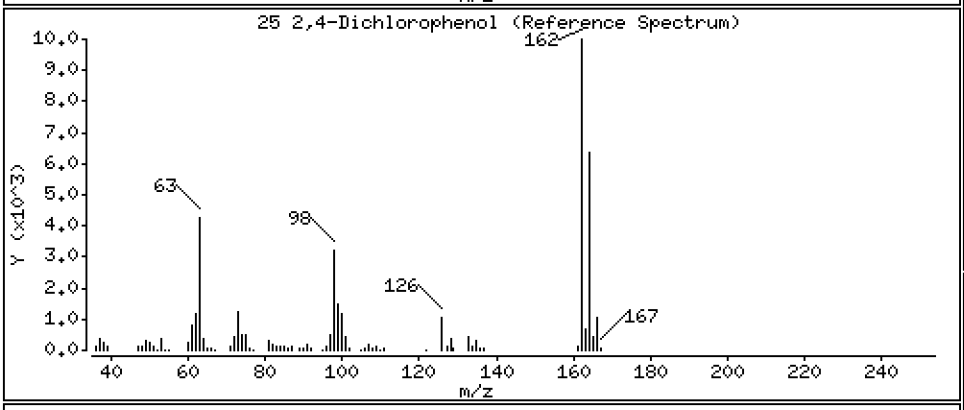
Concentration: 11.88 ug/mL

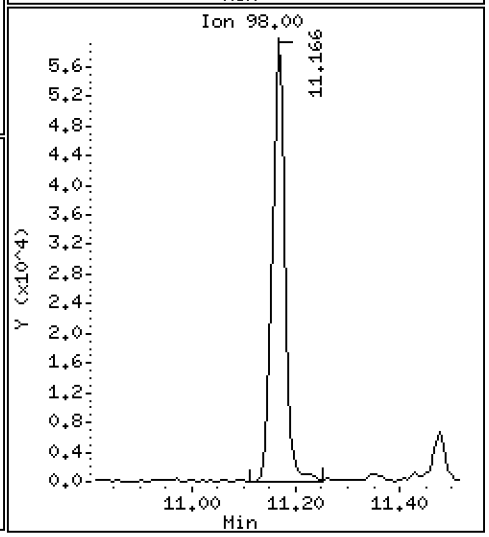


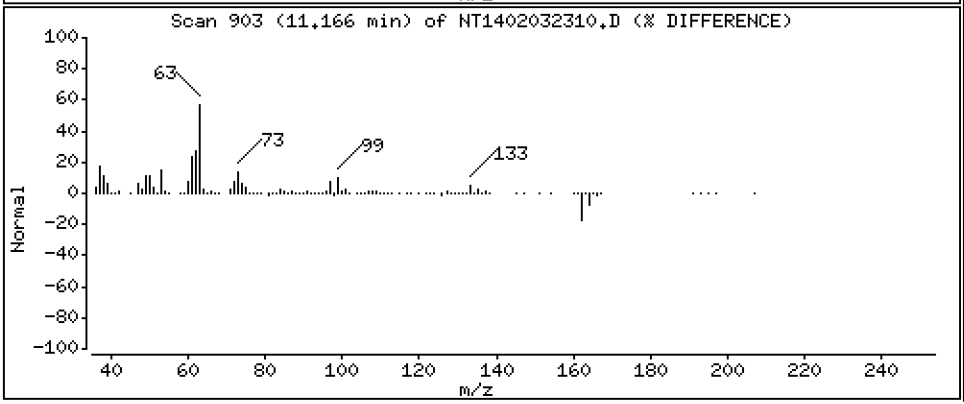












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

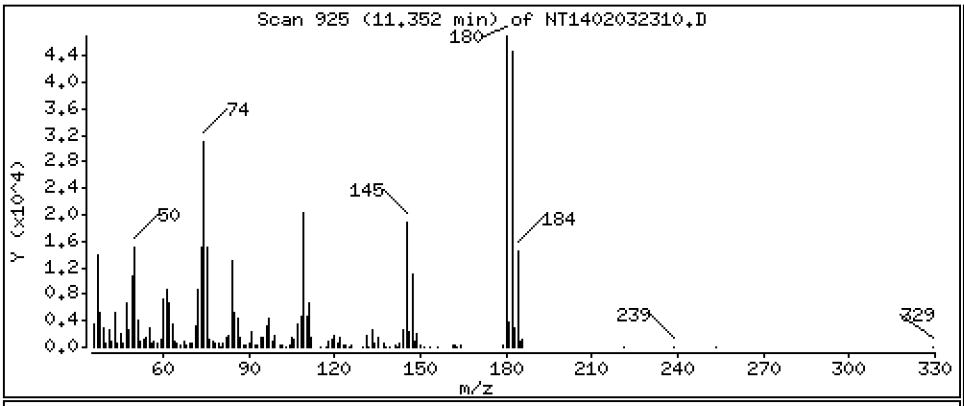
Operator: DSD

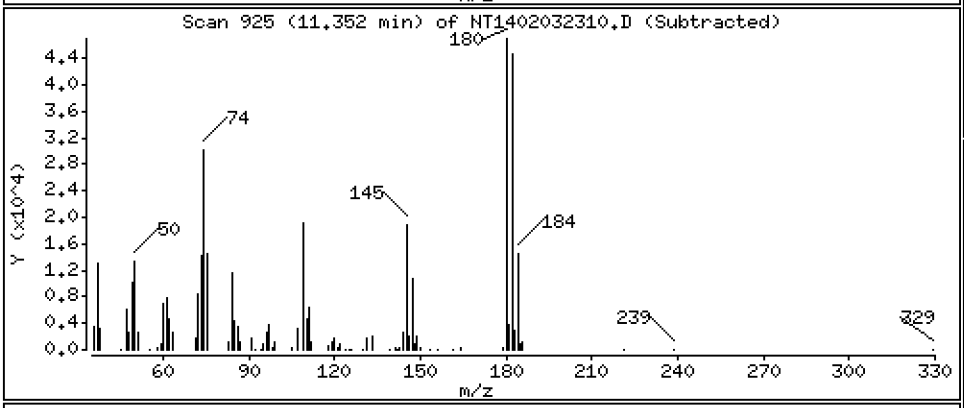
Column phase: ZB-5msi

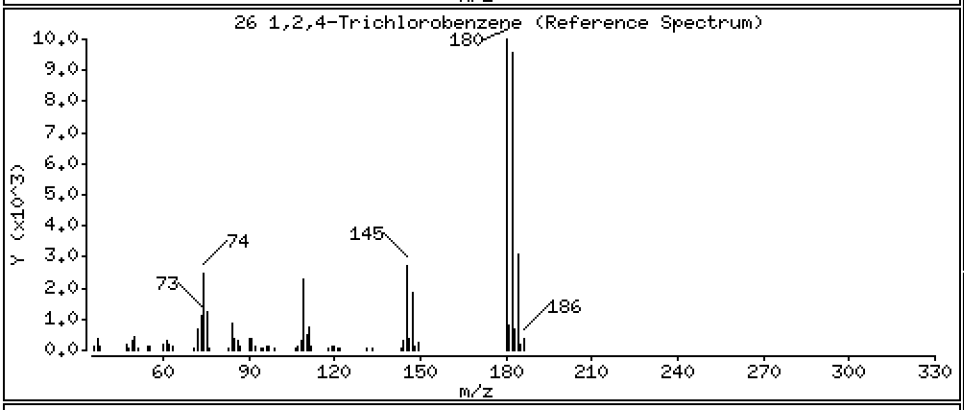
Column diameter: 0.25

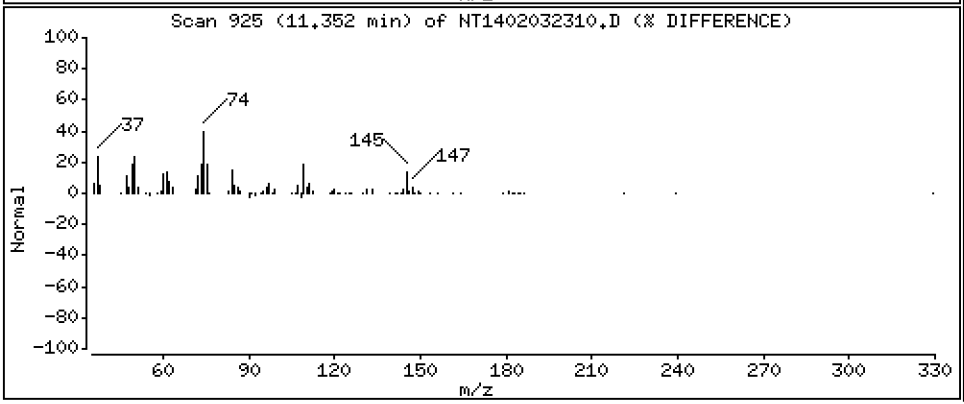
26 1,2,4-Trichlorobenzene

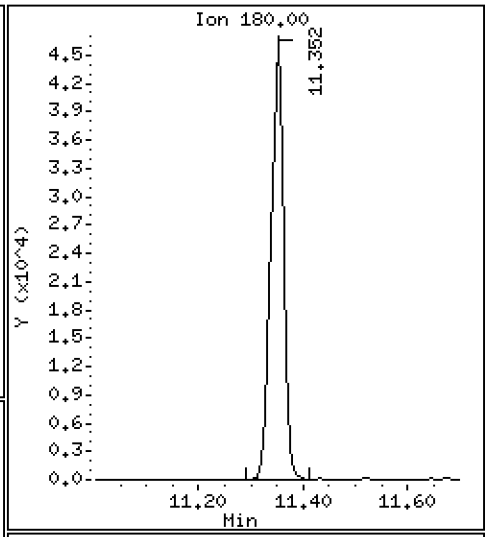
Concentration: 3.701 ug/mL

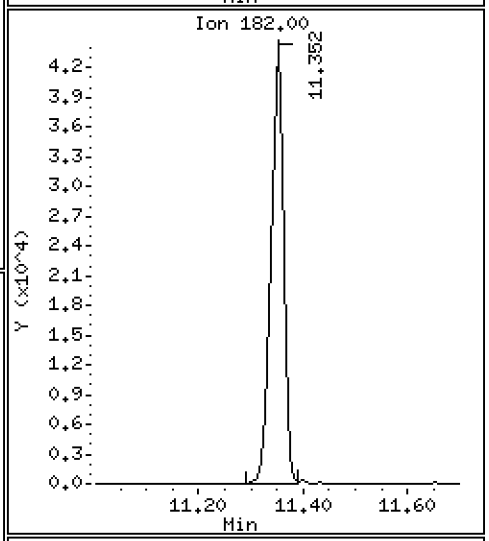


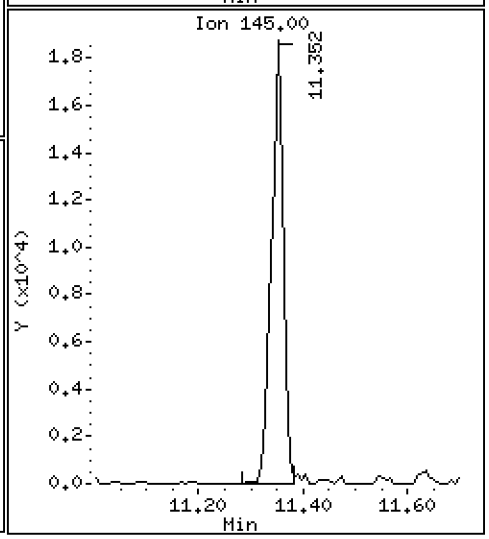












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

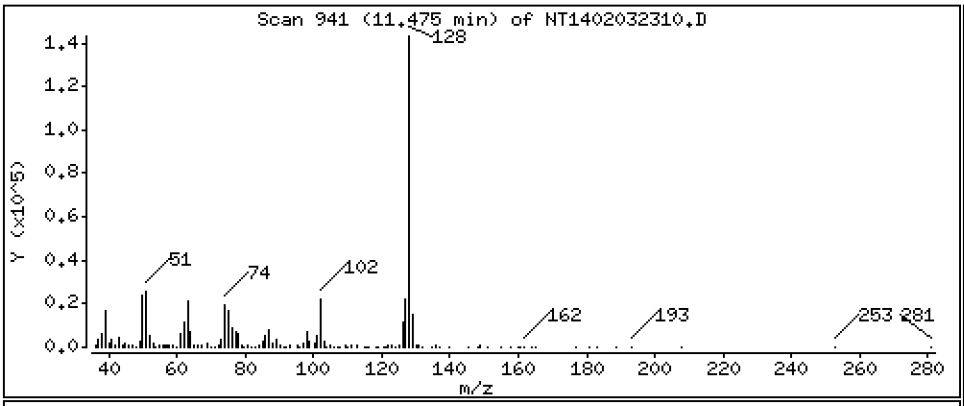
Operator: DSD

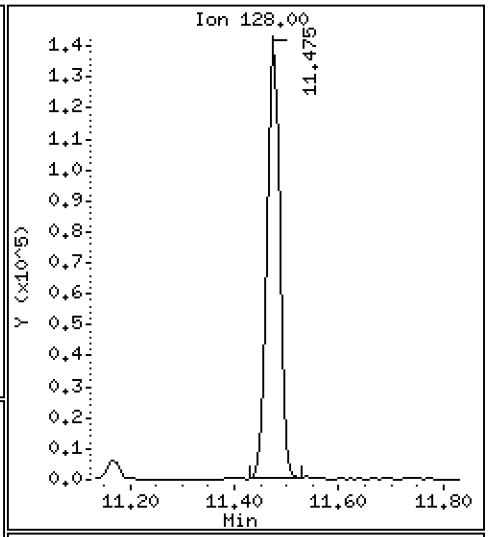
Column phase: ZB-5msi

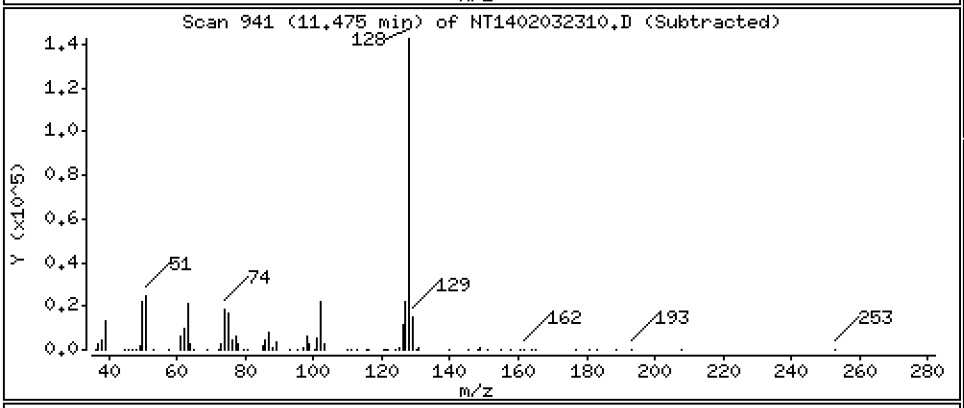
Column diameter: 0.25

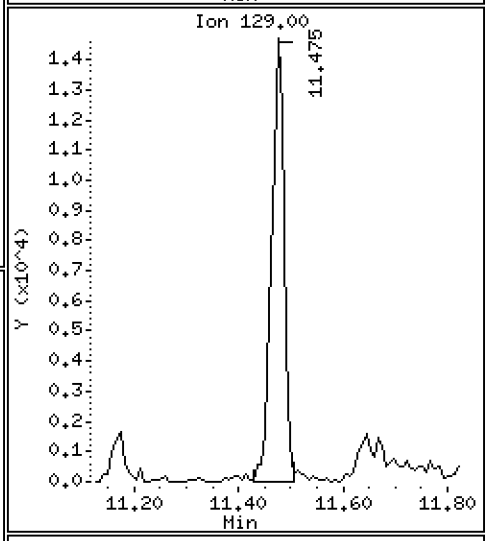
28 Naphthalene

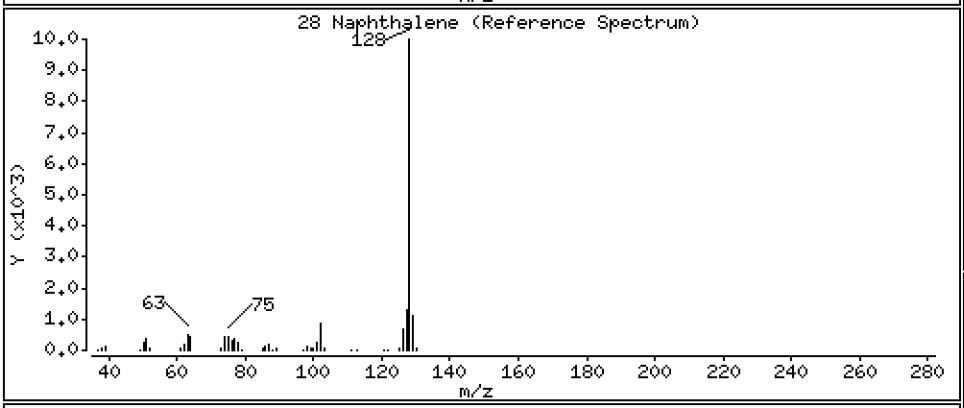
Concentration: 3.744 ug/mL

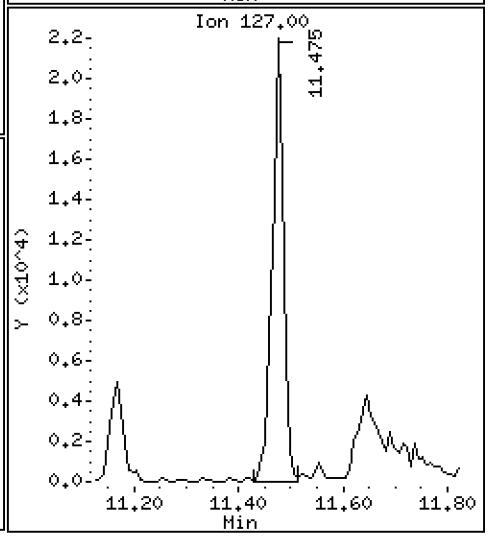


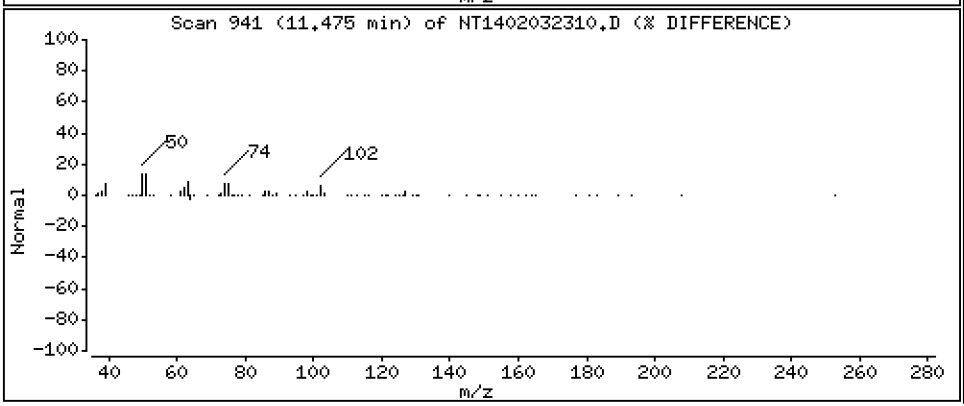












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

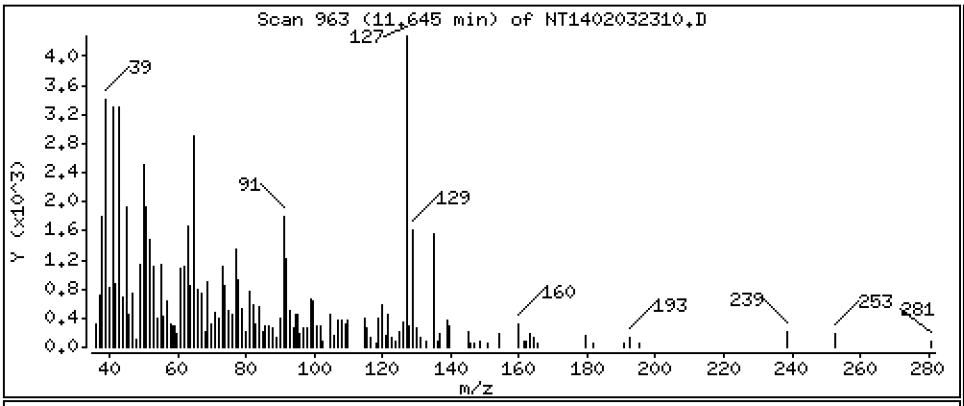
Operator: DSD

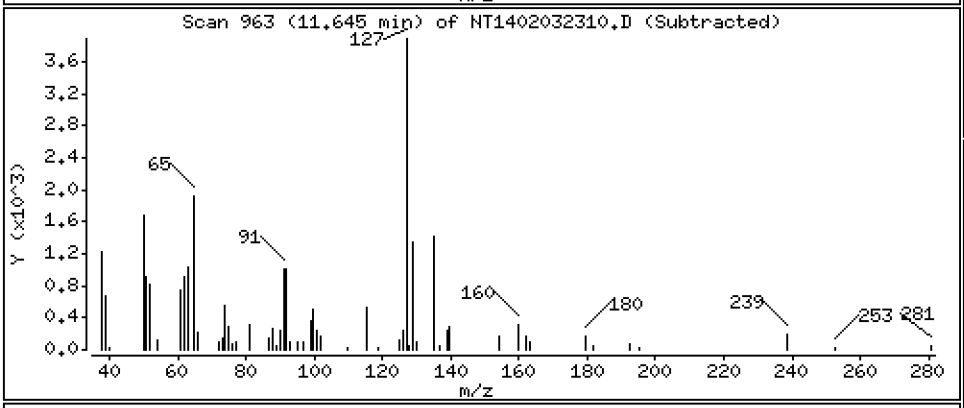
Column phase: ZB-5msi

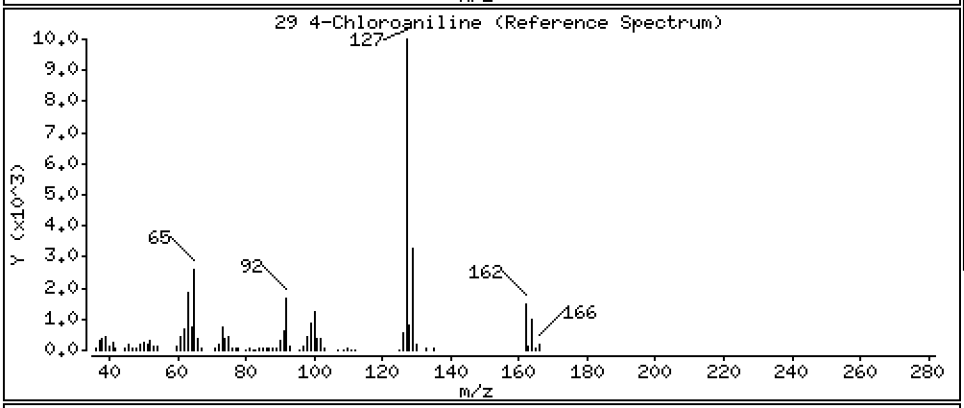
Column diameter: 0.25

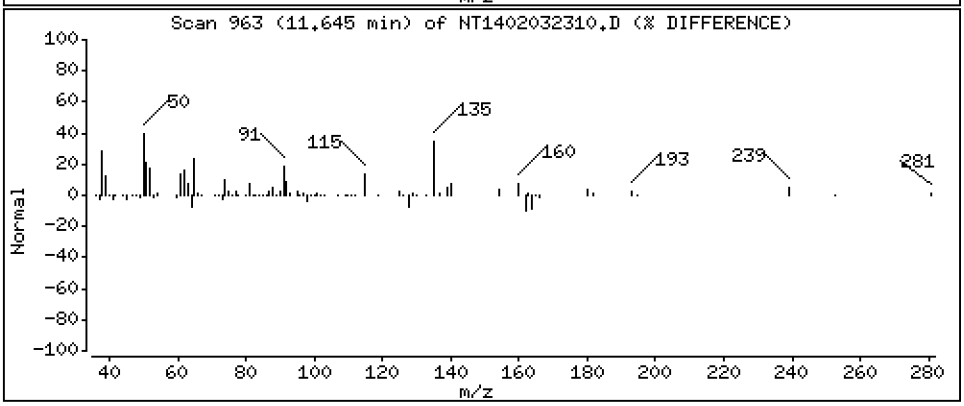
29 4-Chloroaniline

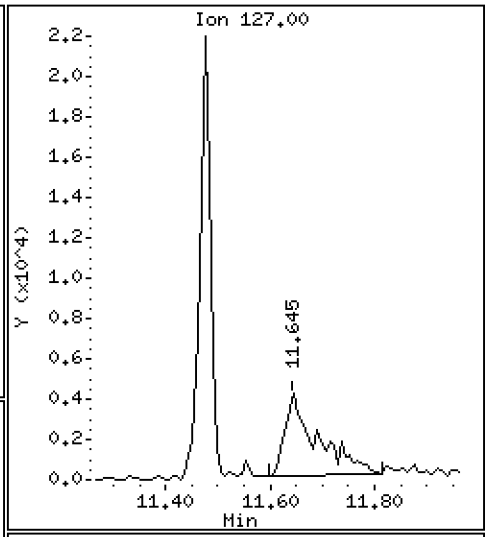
Concentration: 0.7523 ug/mL

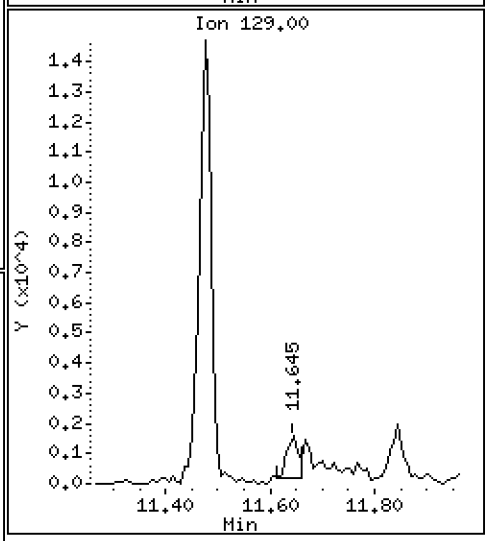












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

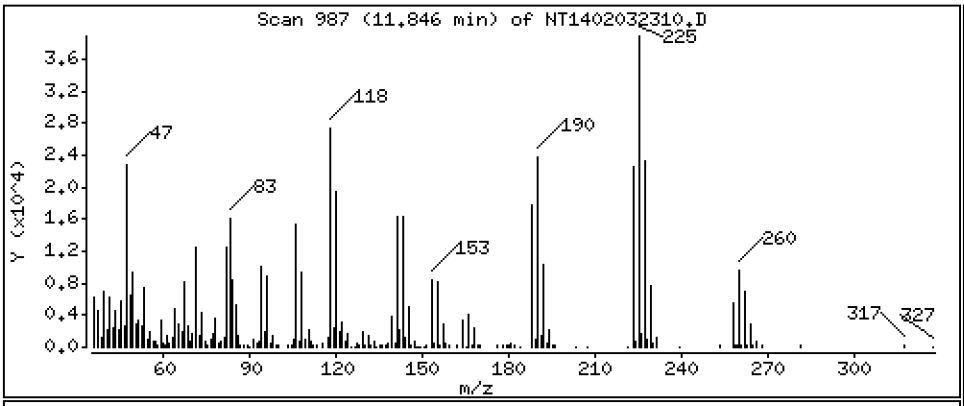
Operator: DSD

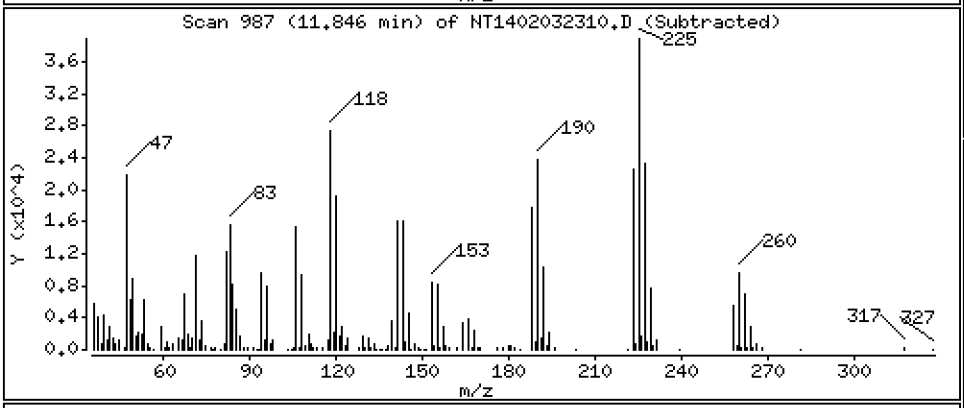
Column phase: ZB-5msi

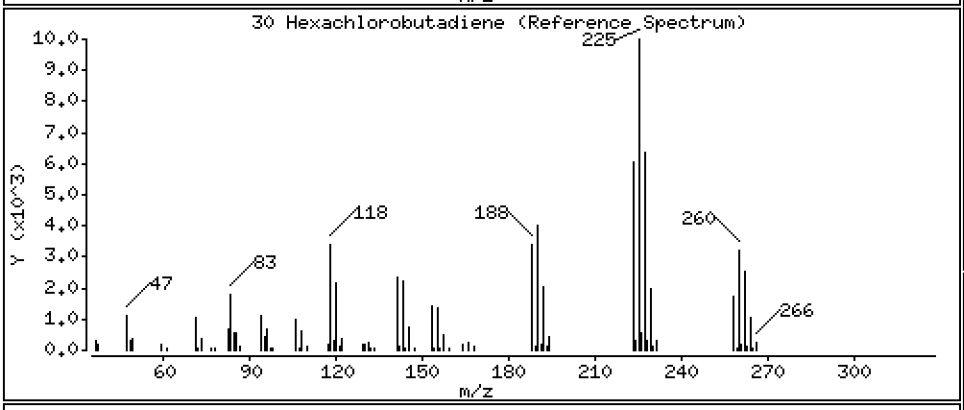
Column diameter: 0.25

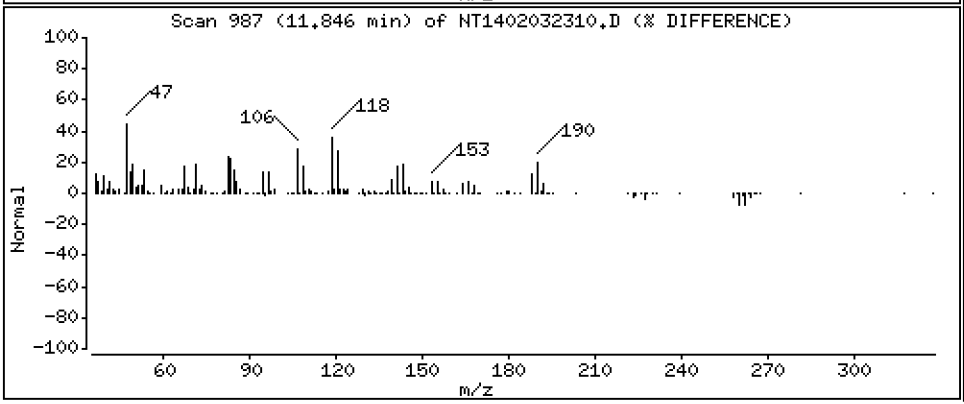
30 Hexachlorobutadiene

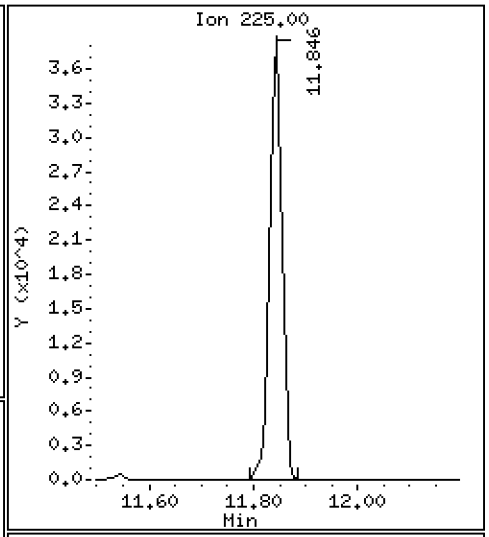
Concentration: 4.037 ug/mL

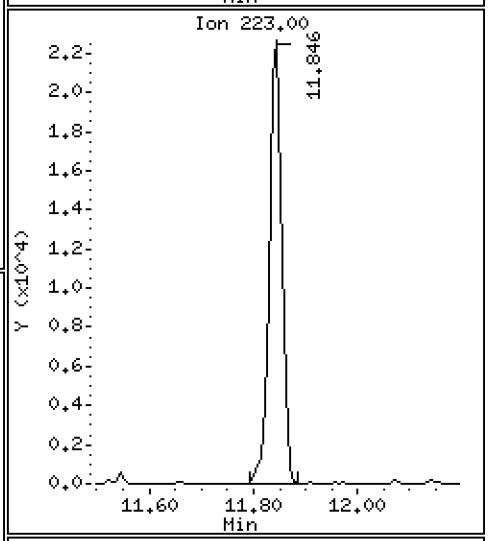


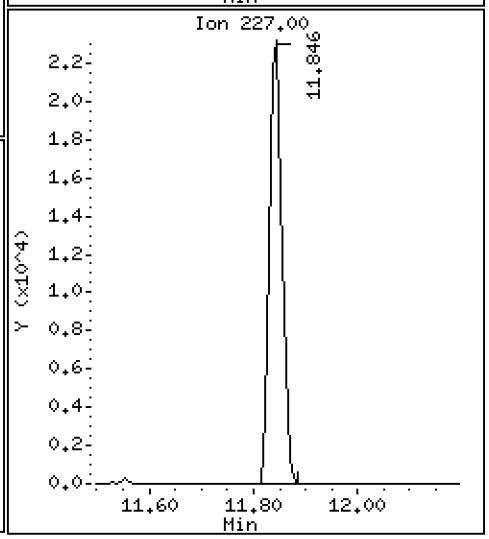












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

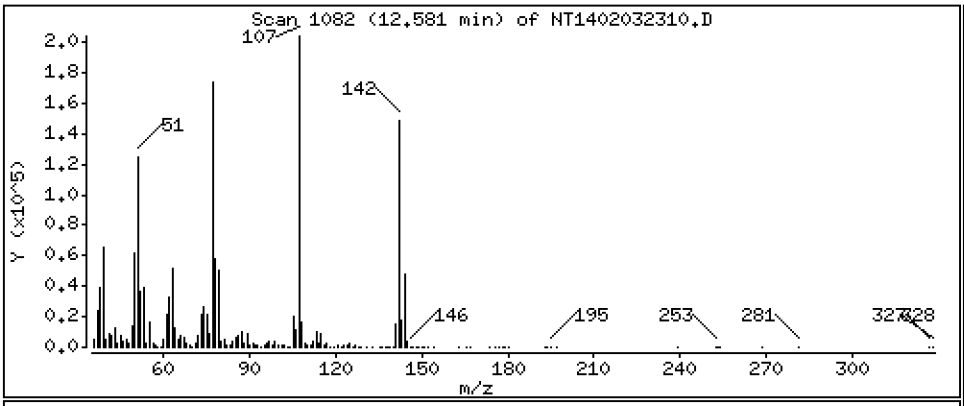
Operator: DSD

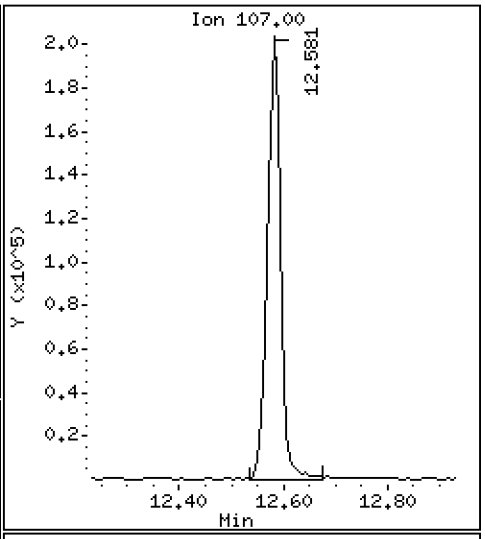
Column phase: ZB-5msi

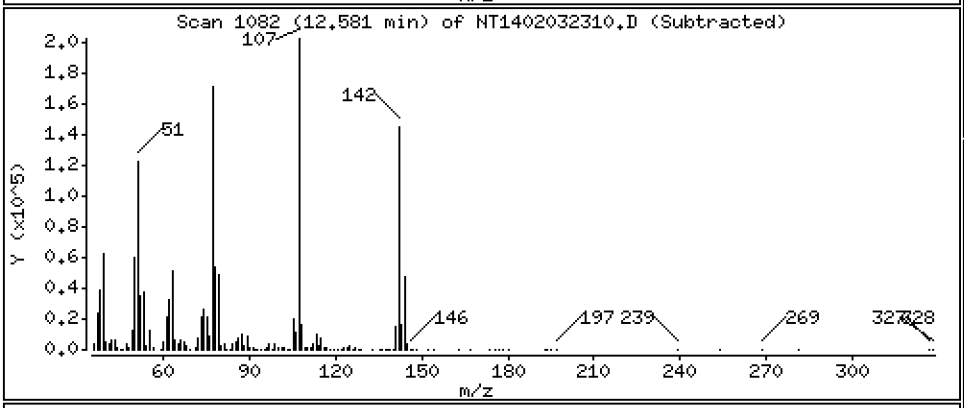
Column diameter: 0.25

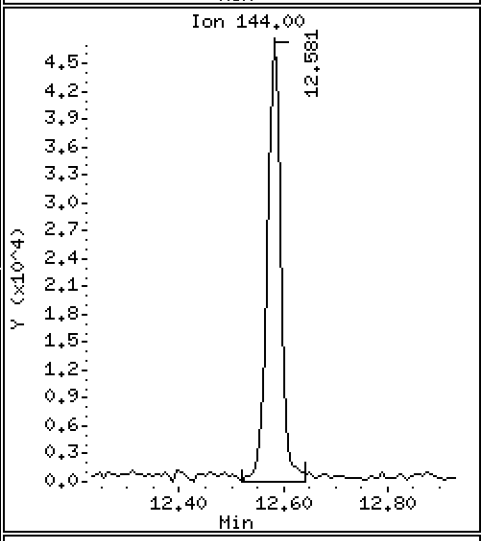
31 4-Chloro-3-methylphenol

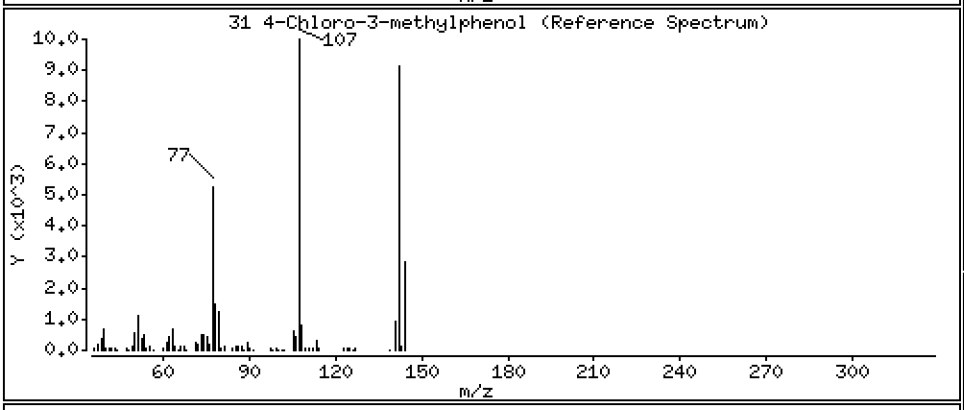
Concentration: 11.57 ug/mL

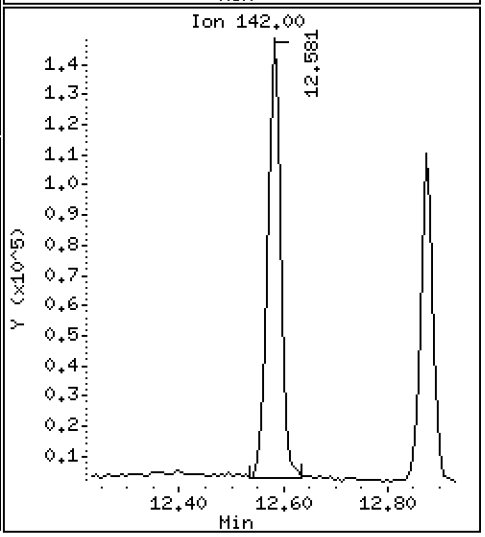


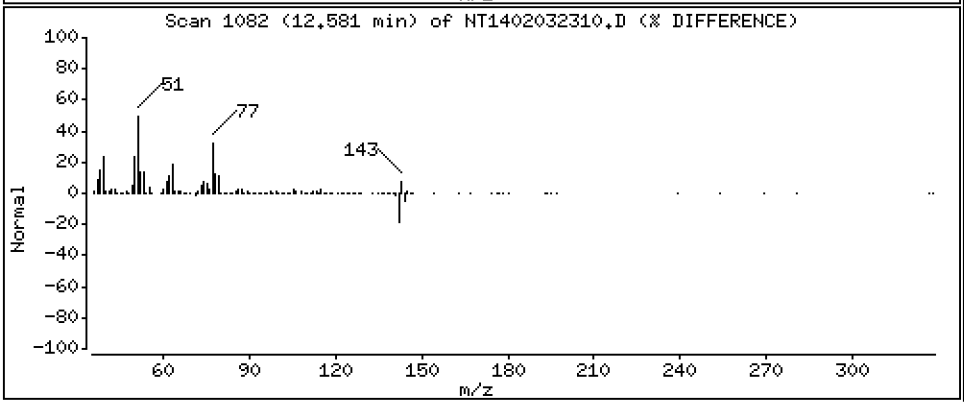












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

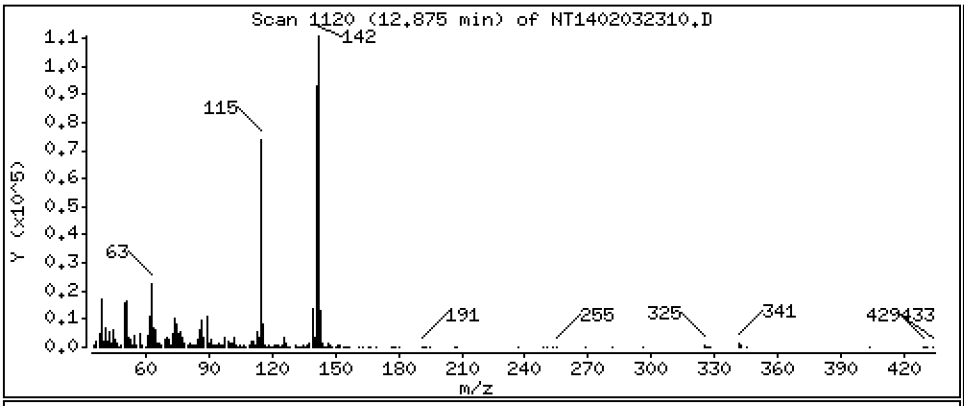
Operator: DSD

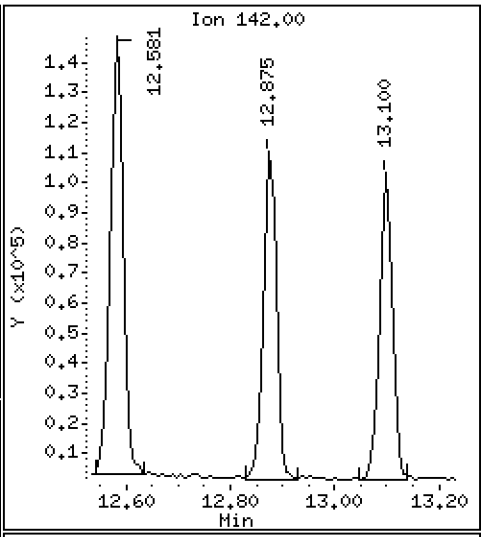
Column phase: ZB-5msi

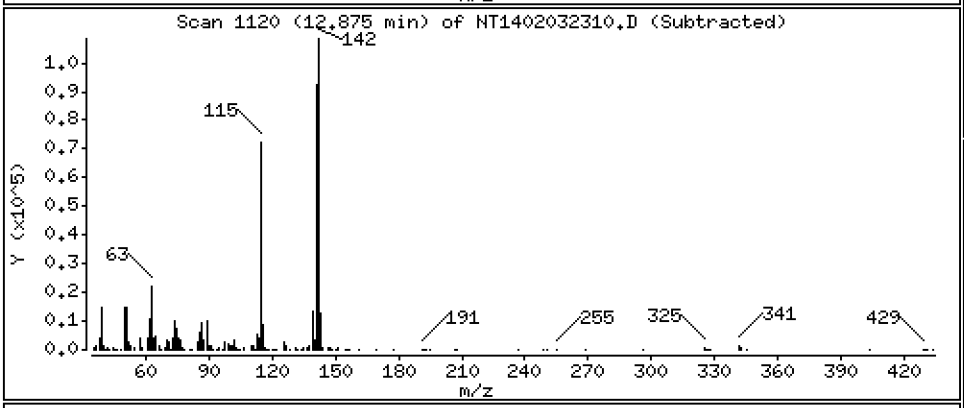
Column diameter: 0.25

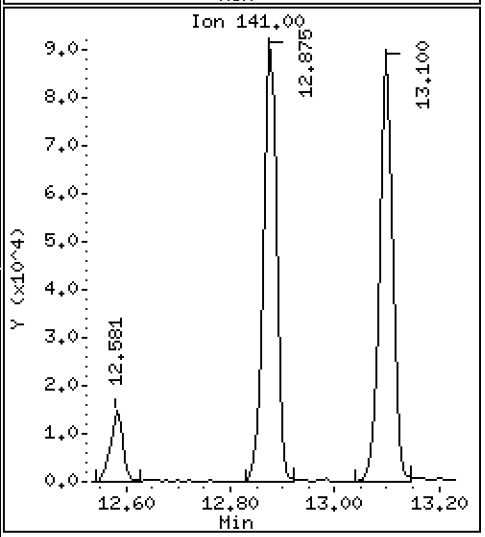
32 2-Methylnaphthalene

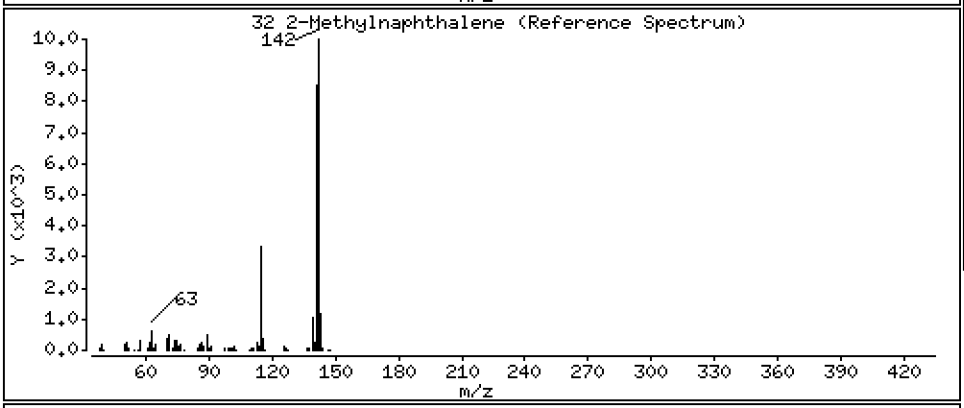
Concentration: 3.641 ug/mL

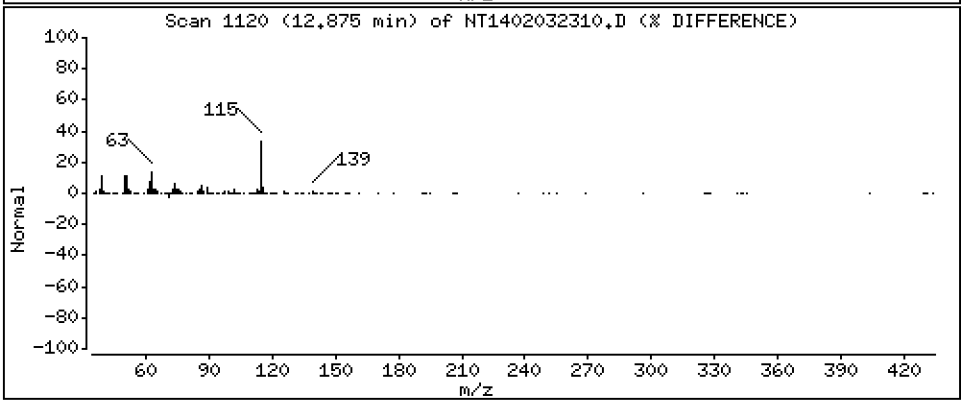












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

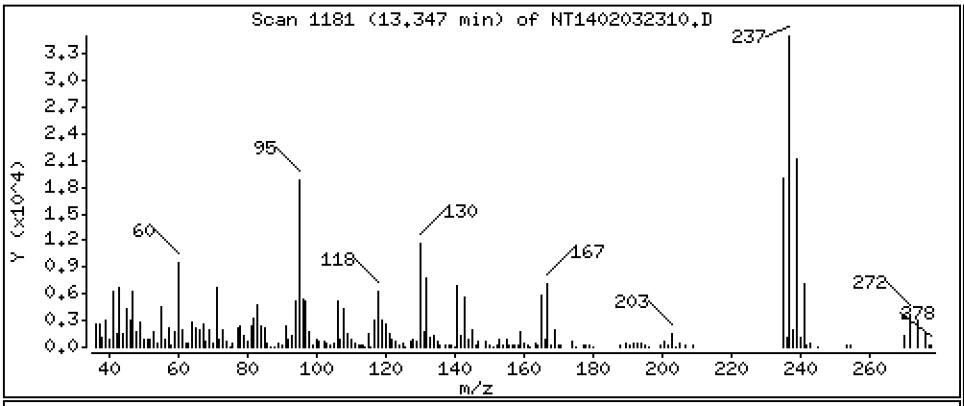
Operator: DSD

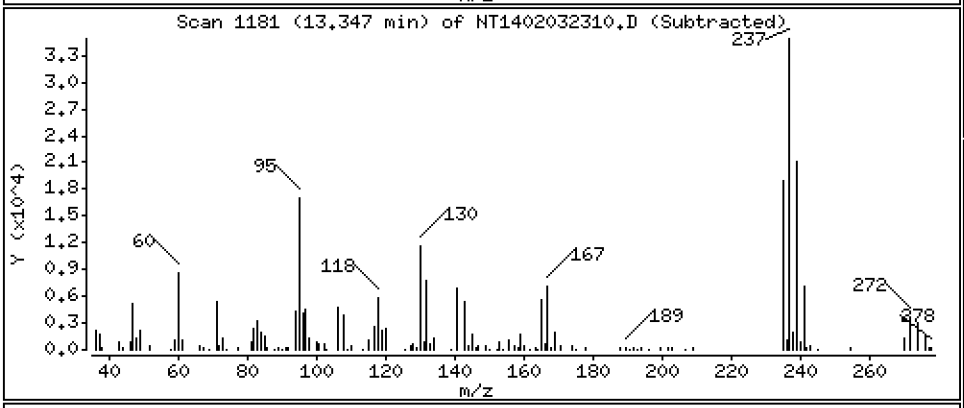
Column phase: ZB-5msi

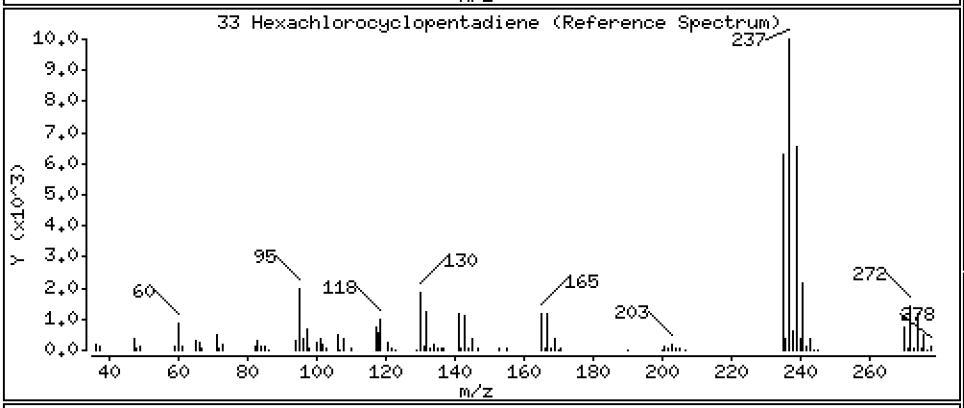
Column diameter: 0.25

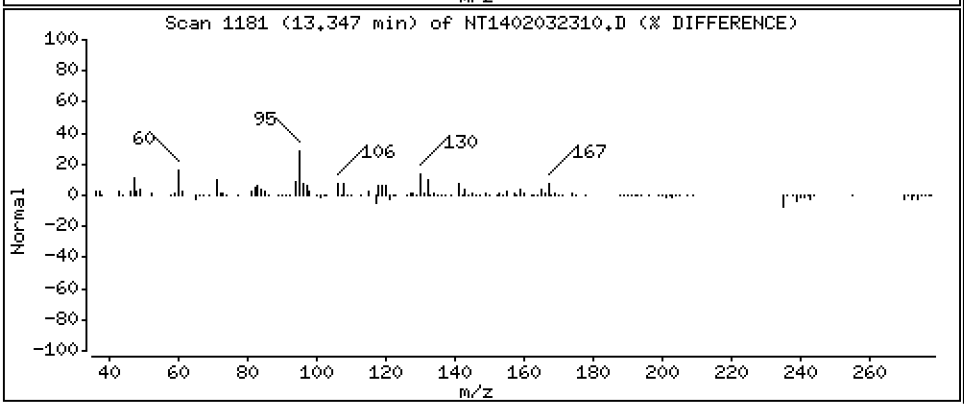
33 Hexachlorocyclopentadiene

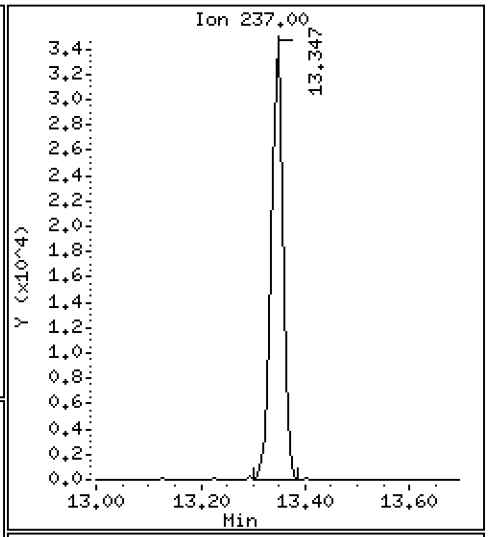
Concentration: 2.466 ug/mL

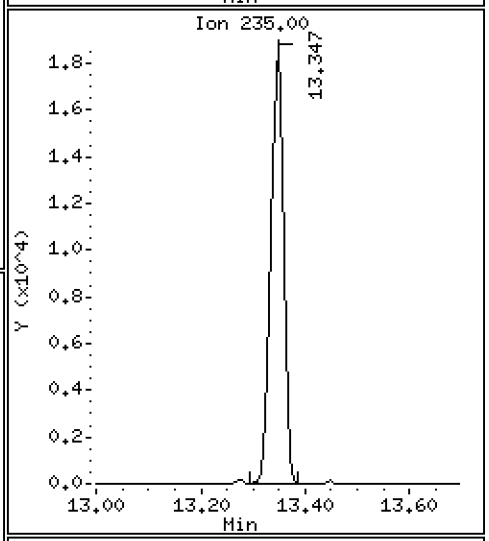


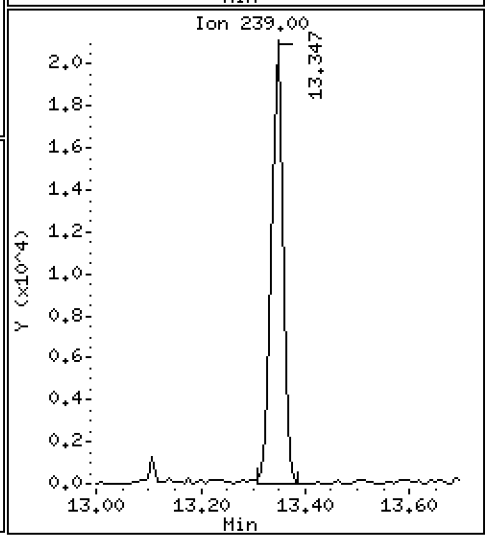












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

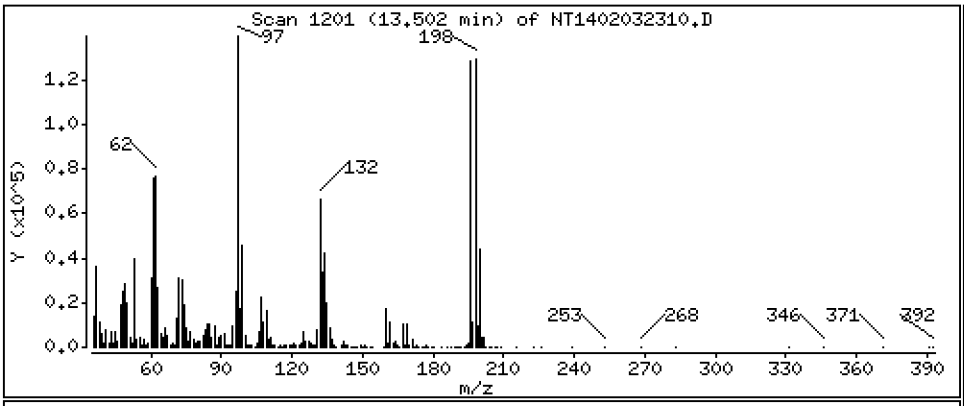
Operator: DSD

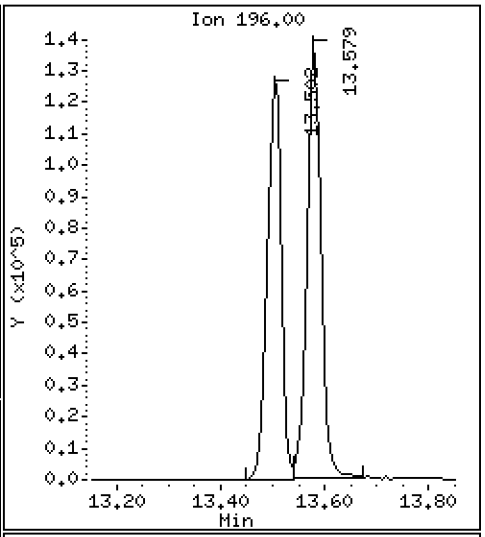
Column phase: ZB-5msi

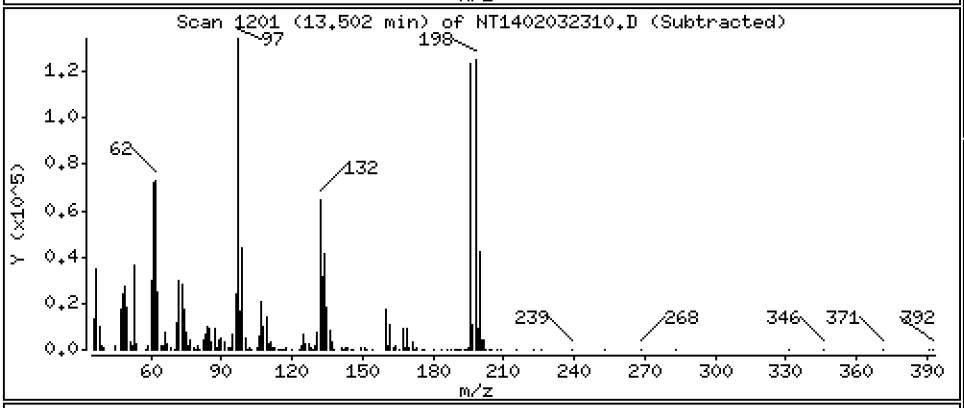
Column diameter: 0.25

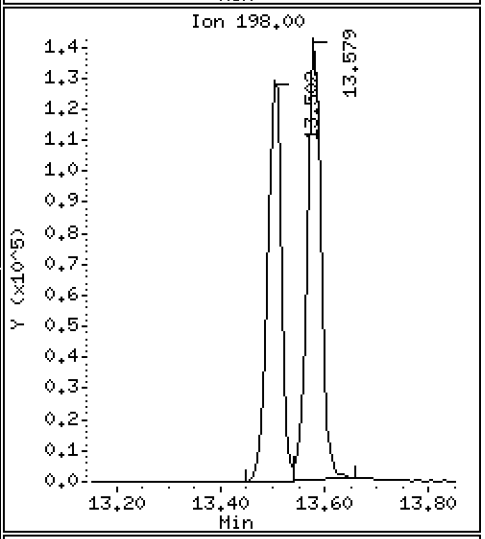
34 2,4,6-Trichlorophenol

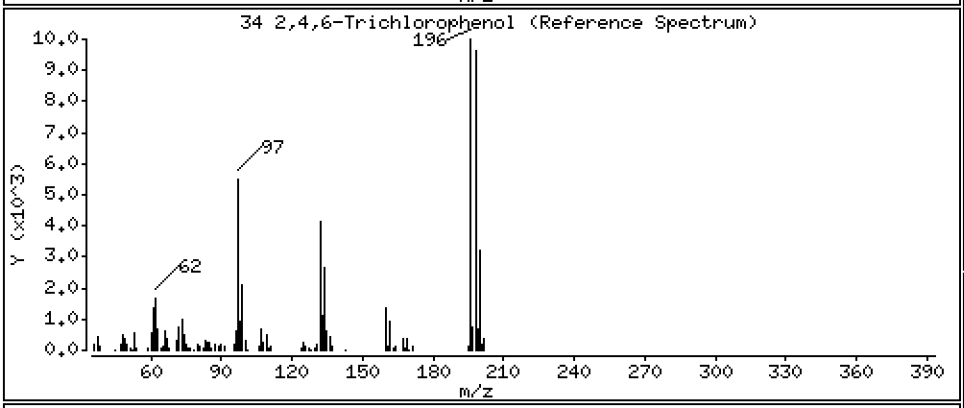
Concentration: 11.96 ug/mL

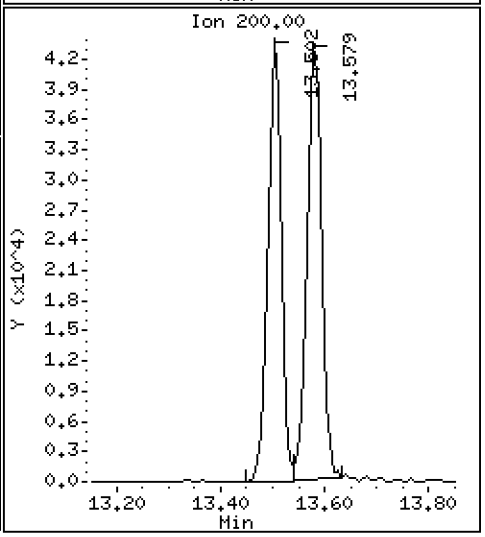


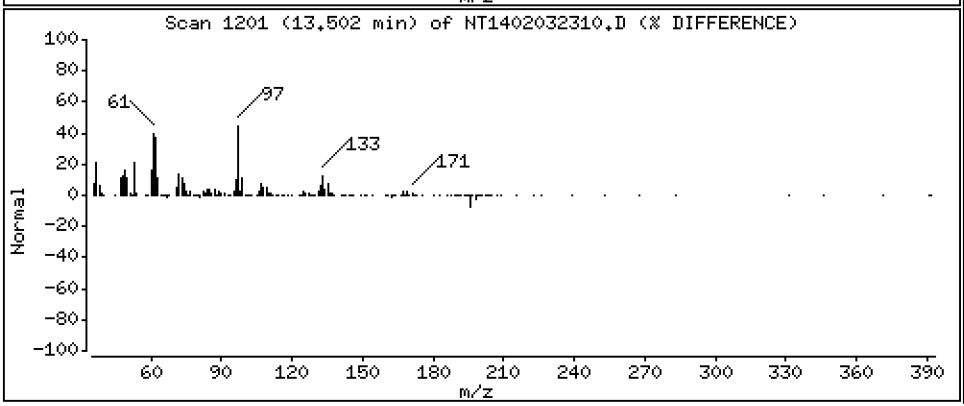












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

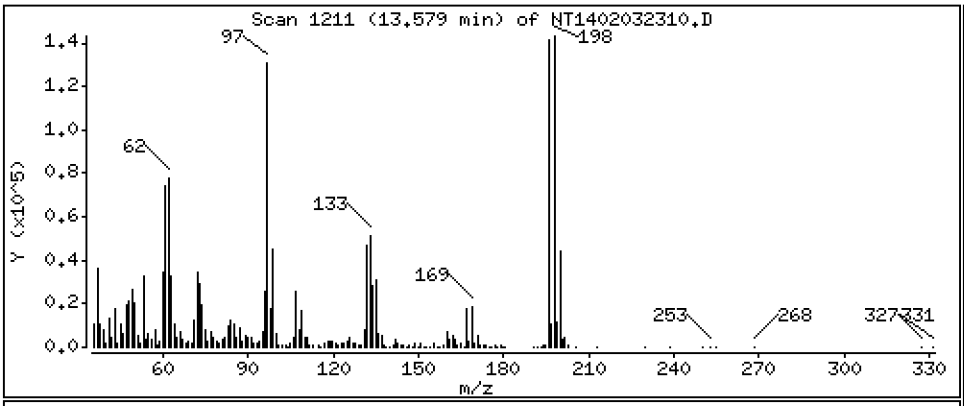
Operator: DSD

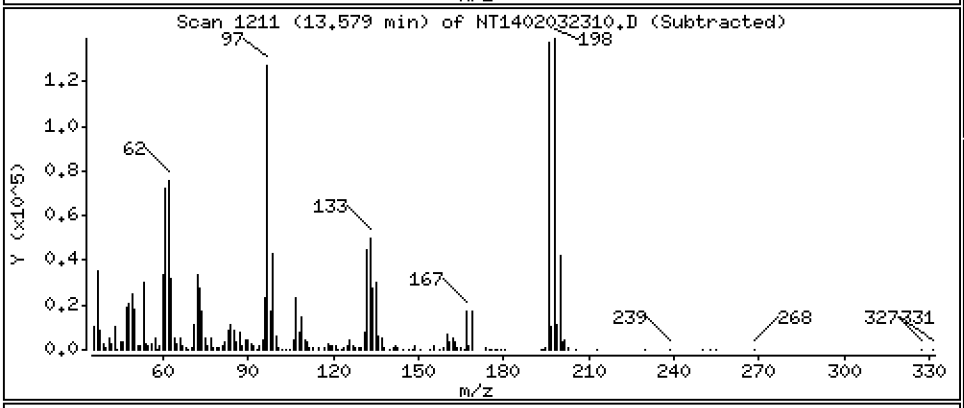
Column phase: ZB-5msi

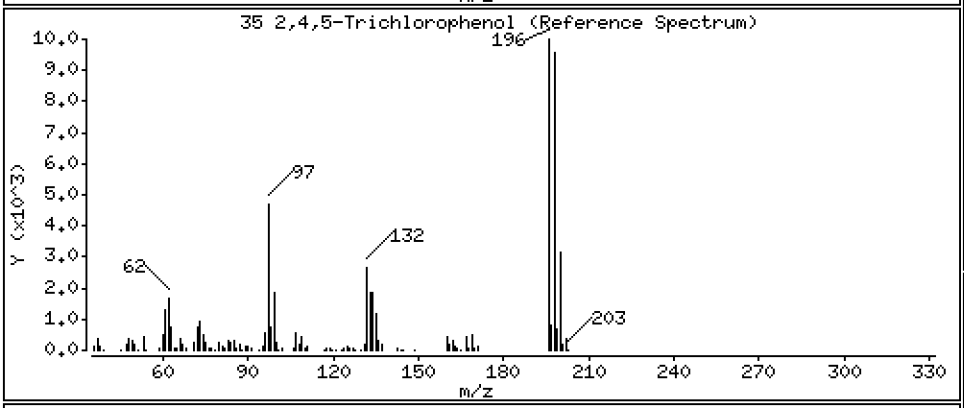
Column diameter: 0.25

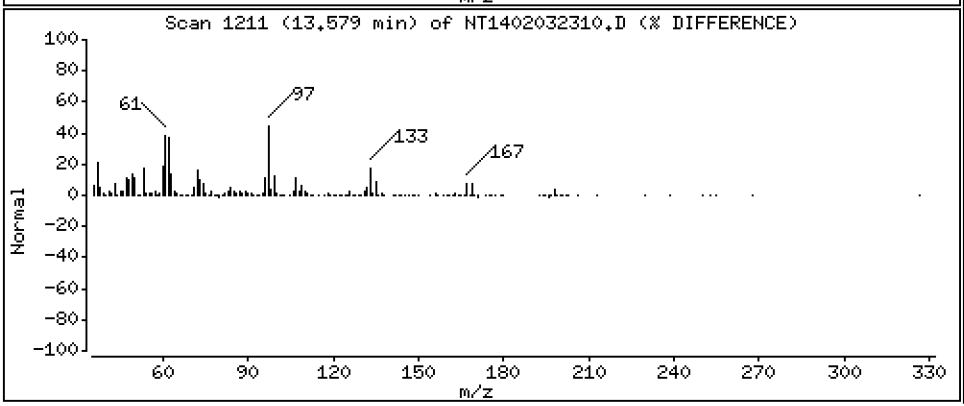
35 2,4,5-Trichlorophenol

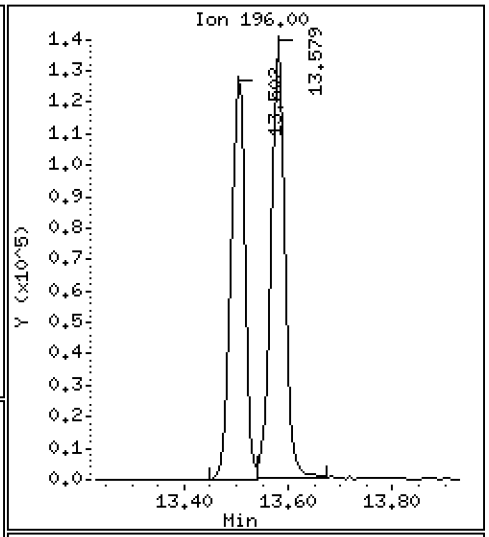
Concentration: 11.50 ug/mL

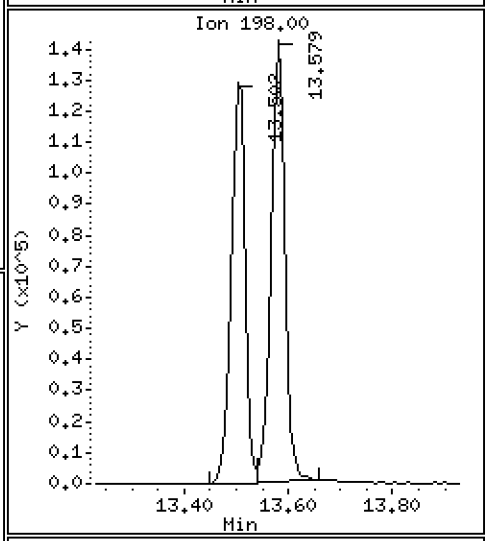


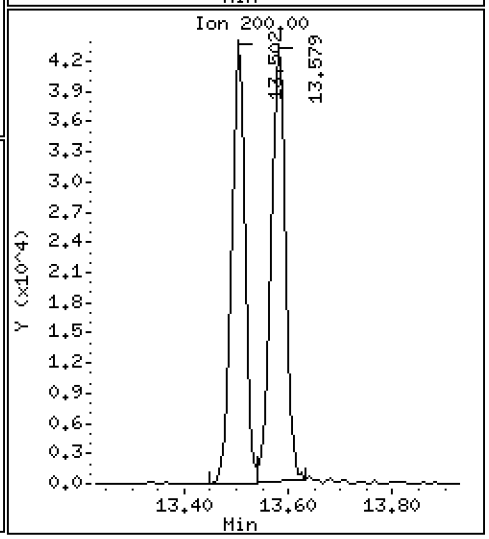












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

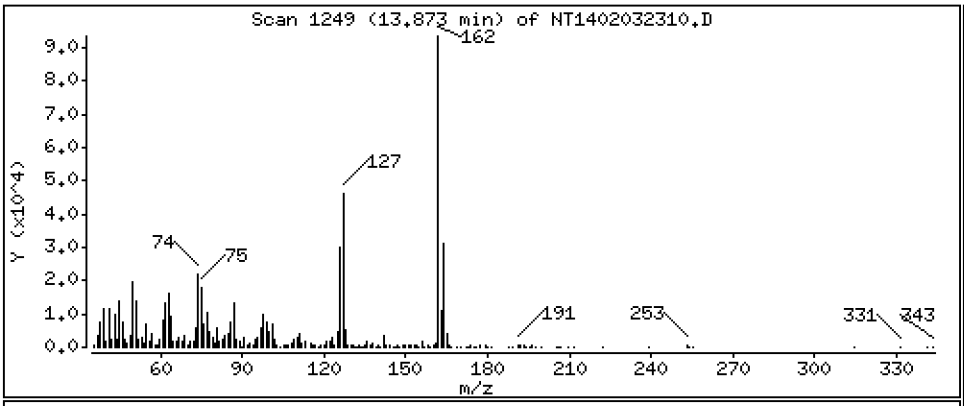
Operator: DSD

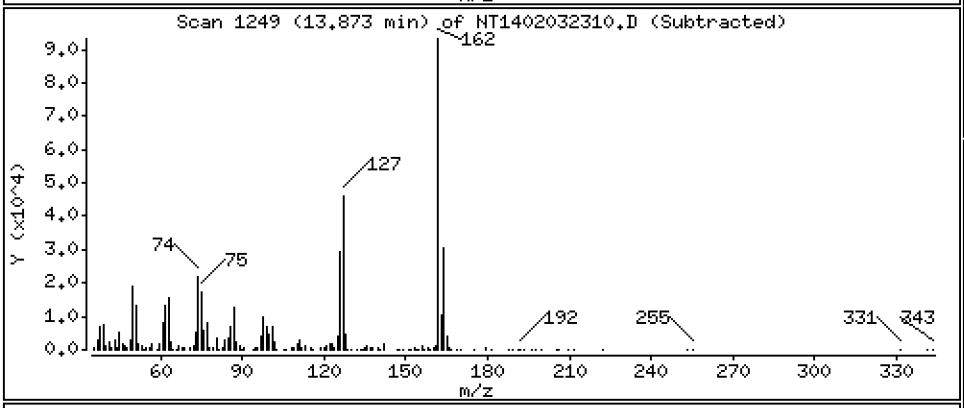
Column phase: ZB-5msi

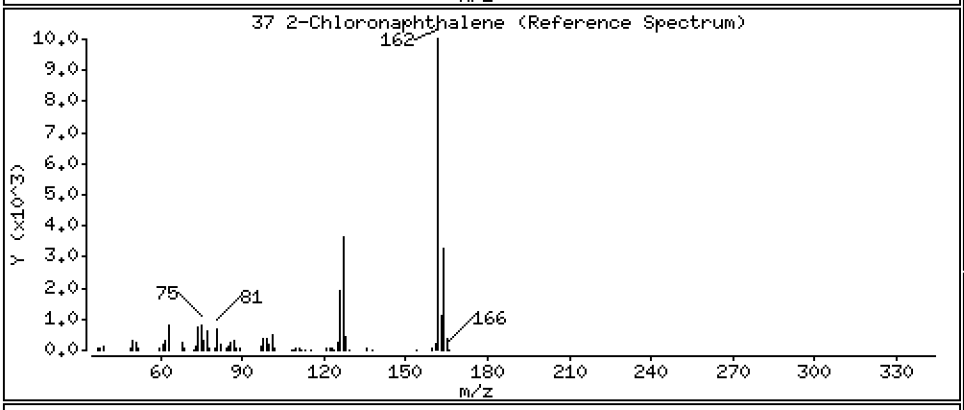
Column diameter: 0.25

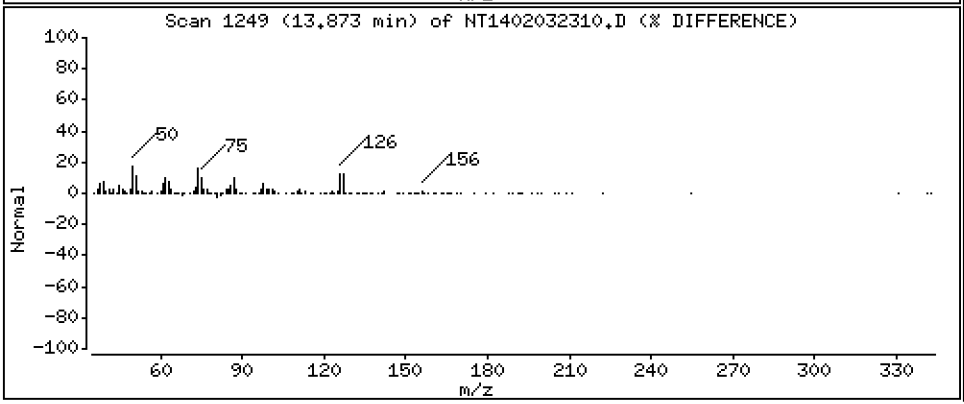
37 2-Chloronaphthalene

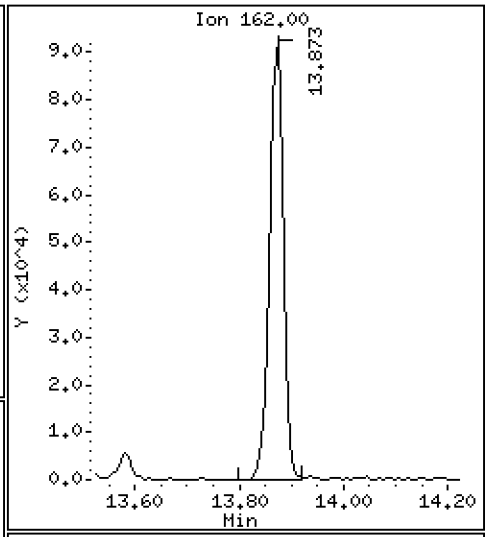
Concentration: 3.673 ug/mL

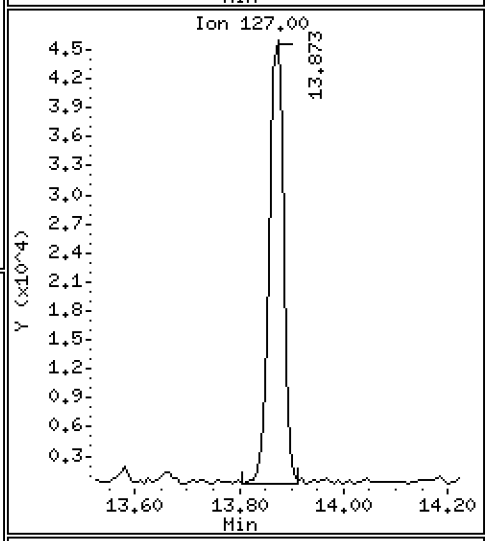


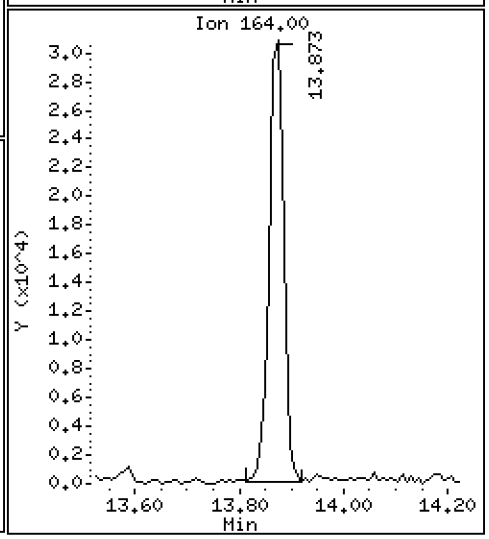












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

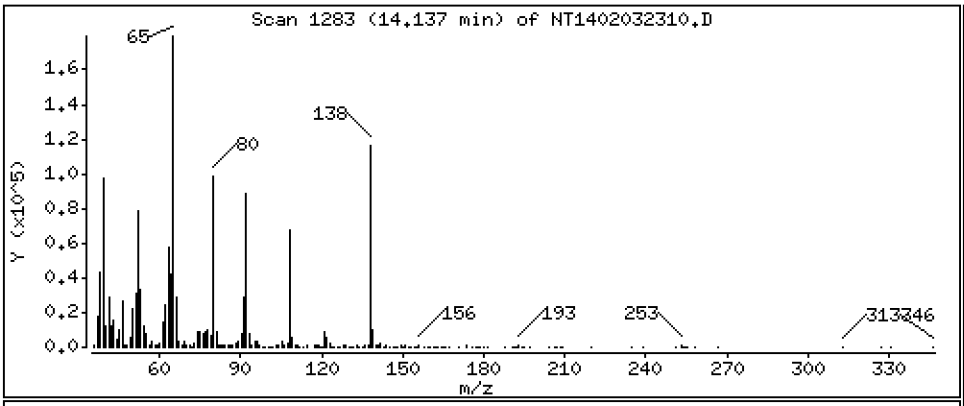
Operator: DSD

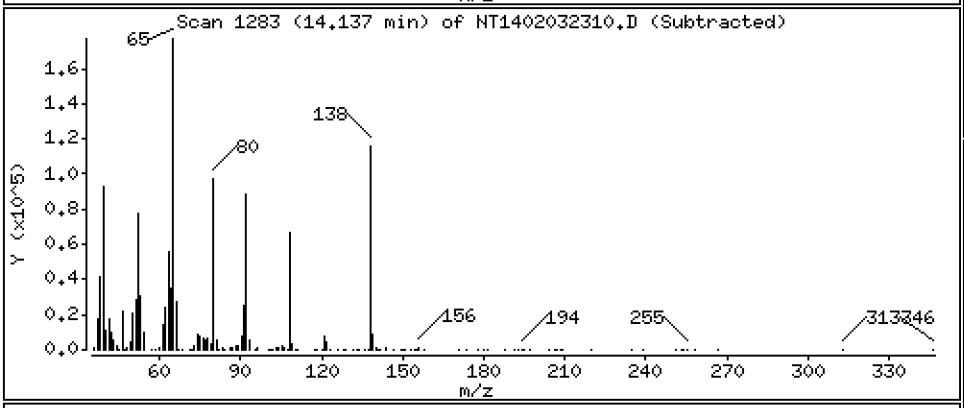
Column phase: ZB-5msi

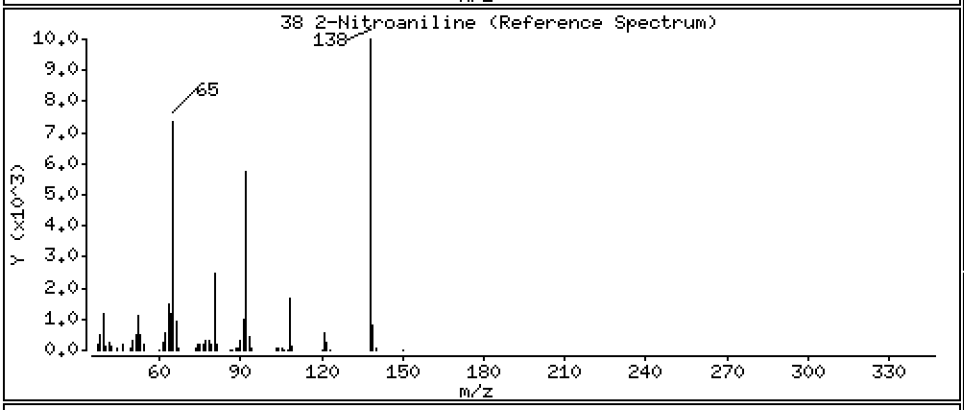
Column diameter: 0.25

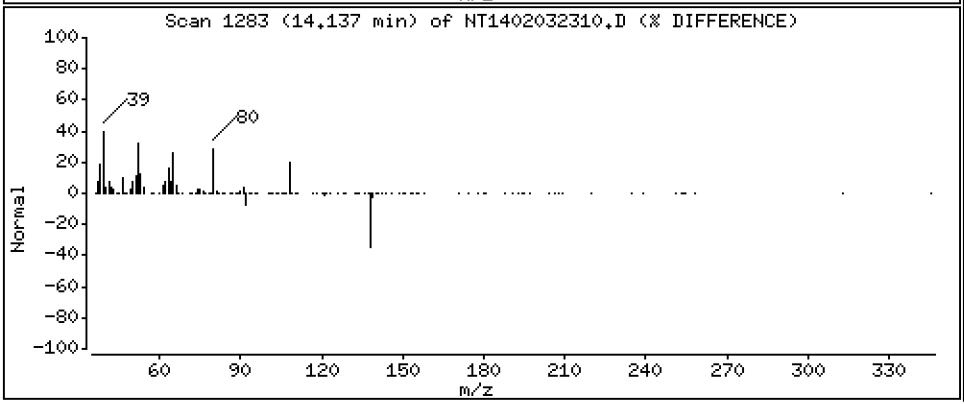
38 2-Nitroaniline

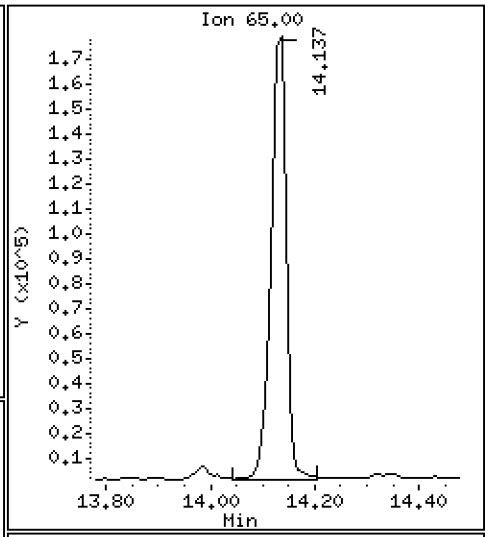
Concentration: 13.38 ug/mL

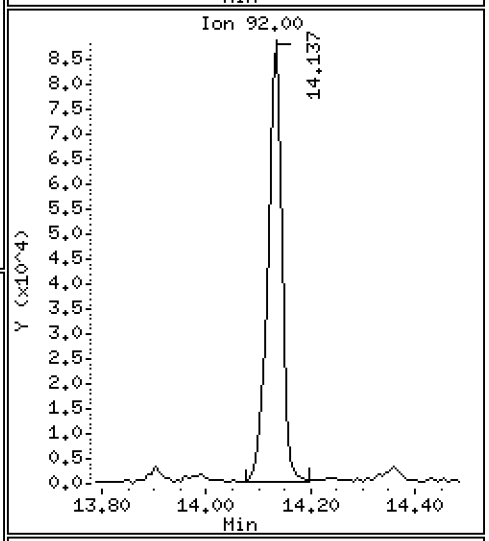


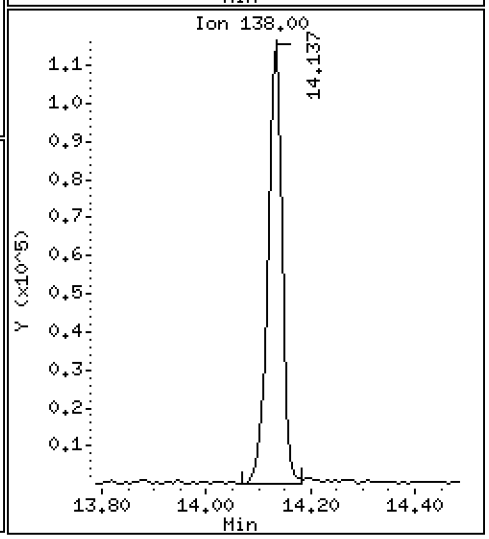












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

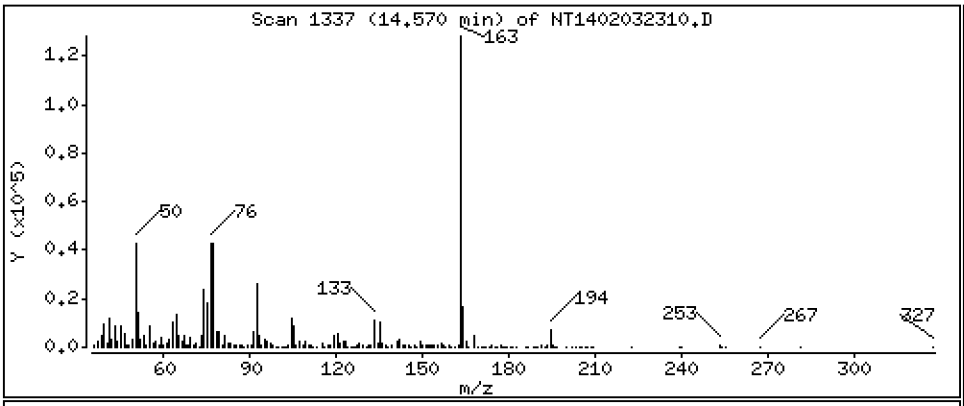
Operator: DSD

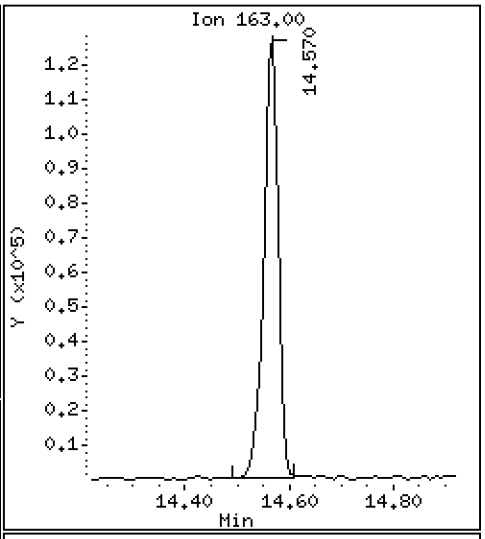
Column phase: ZB-5msi

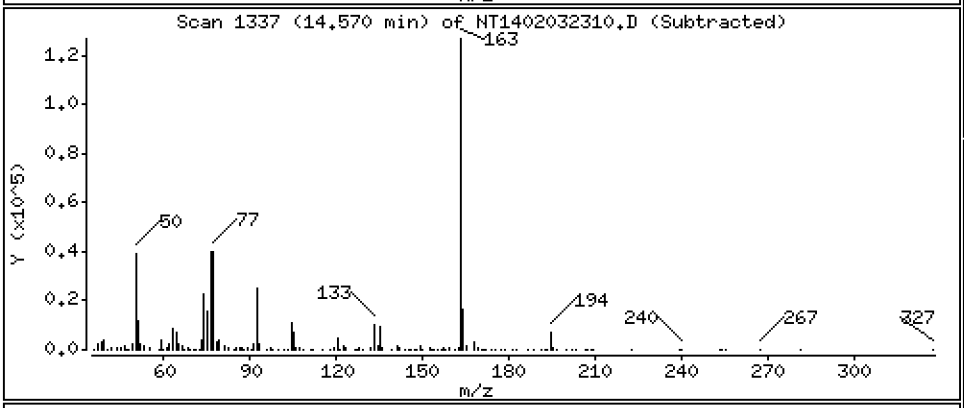
Column diameter: 0.25

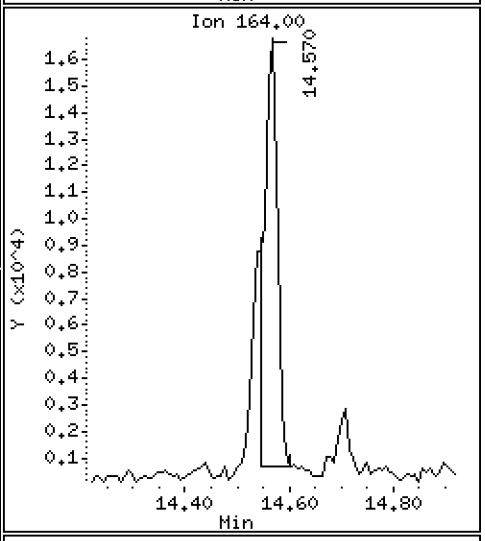
39 Dimethylphthalate

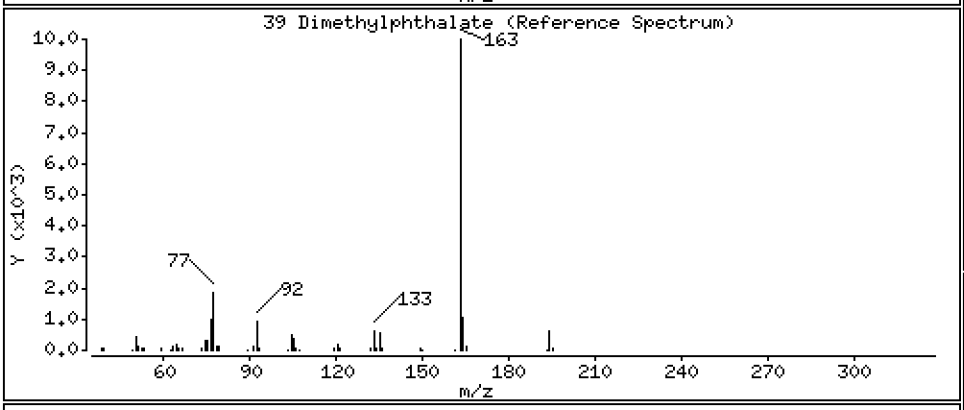
Concentration: 4.137 ug/mL

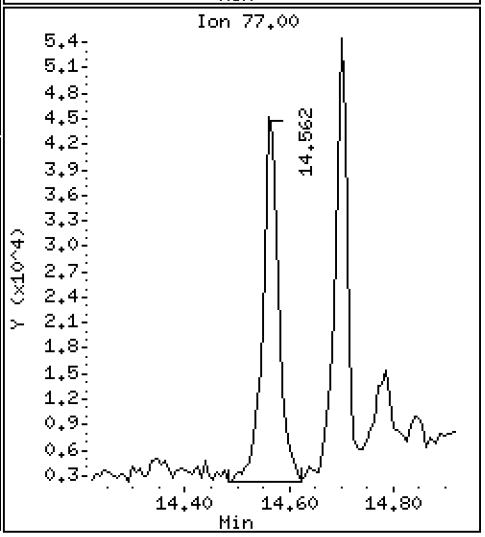


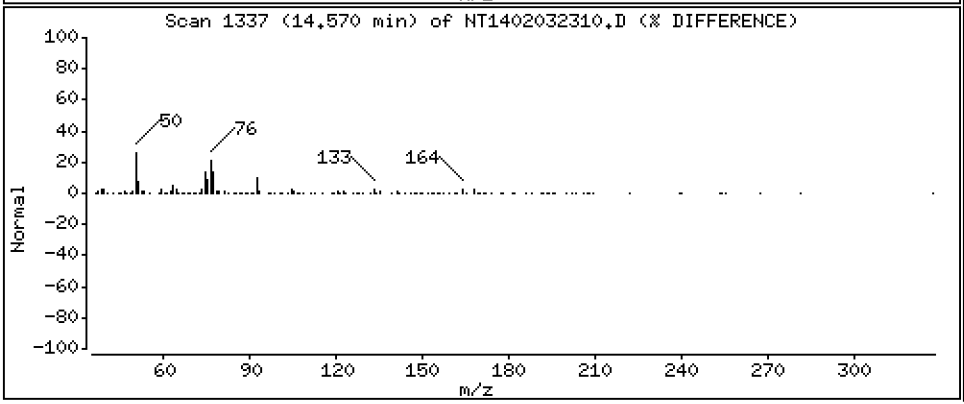












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

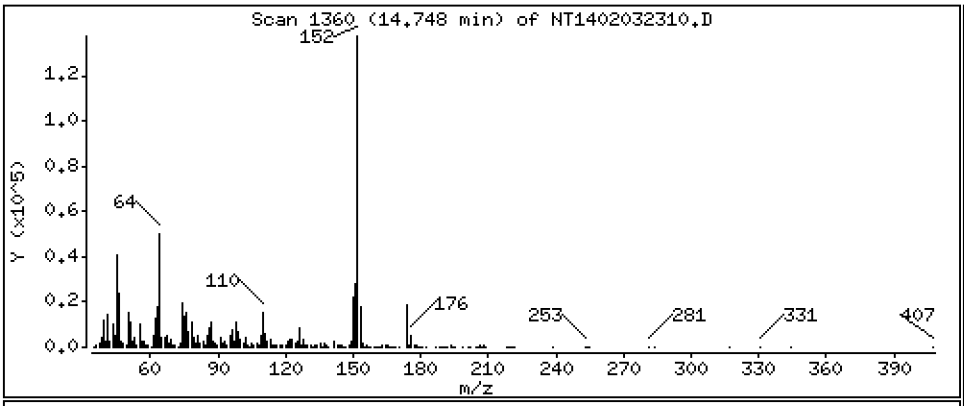
Operator: DSD

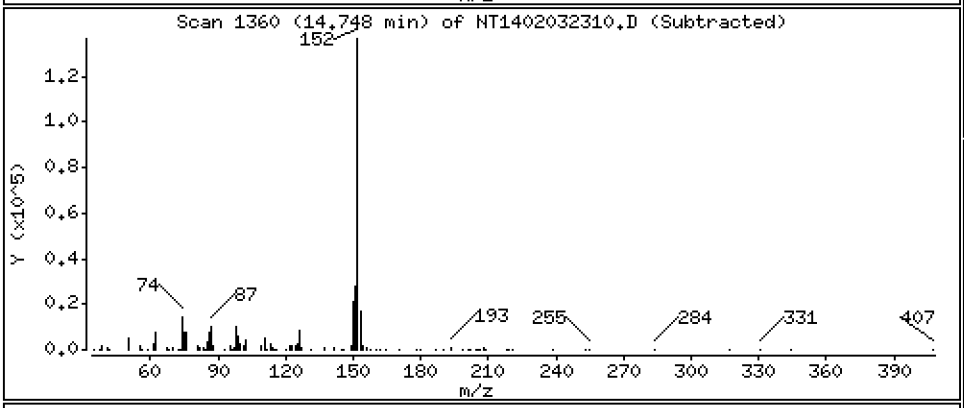
Column phase: ZB-5msi

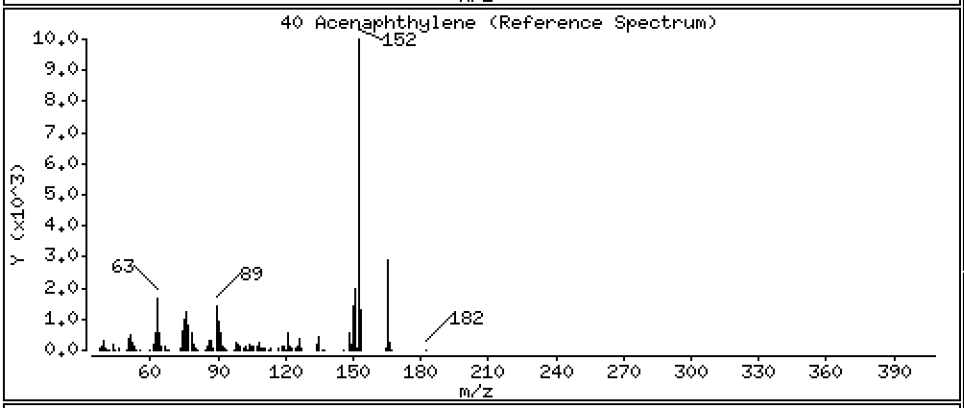
Column diameter: 0.25

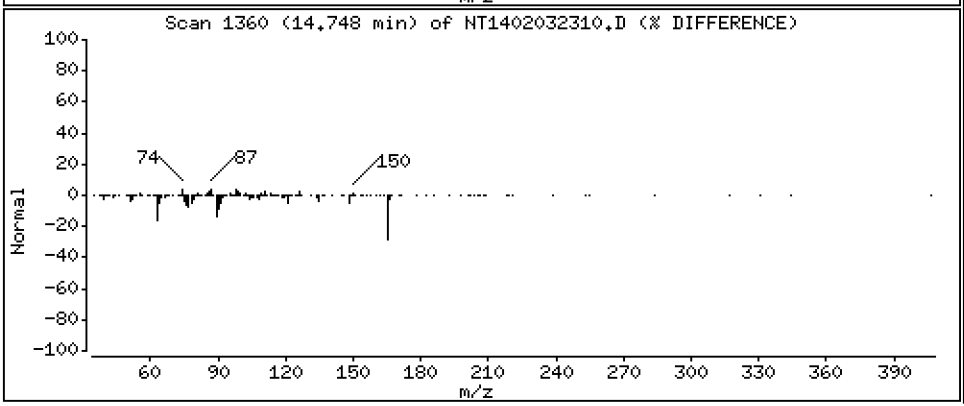
40 Acenaphthylene

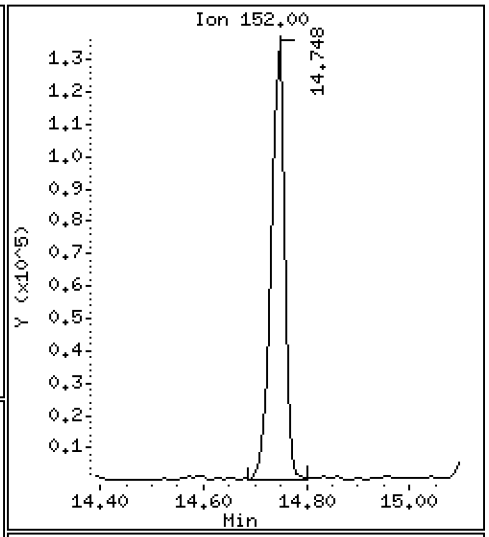
Concentration: 3.323 ug/mL

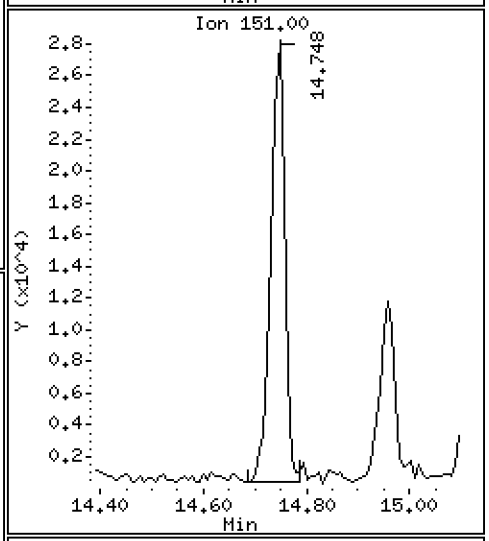


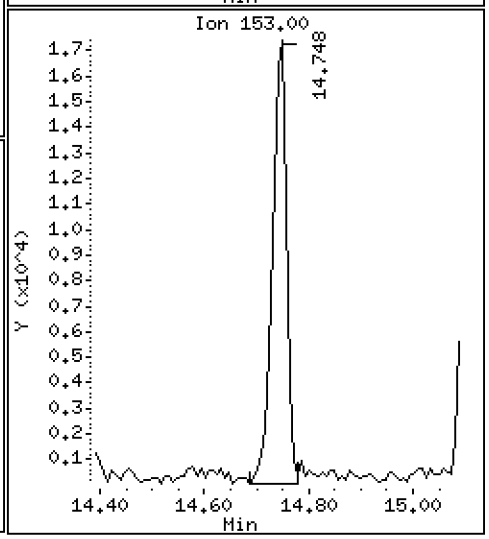












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

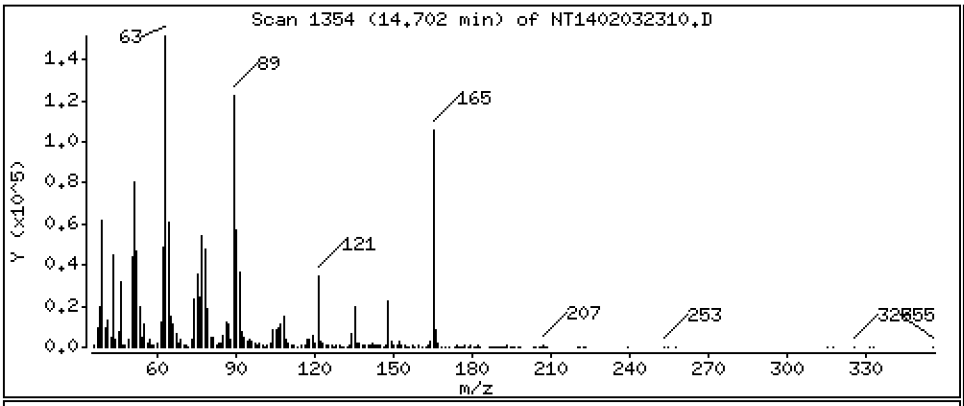
Operator: DSD

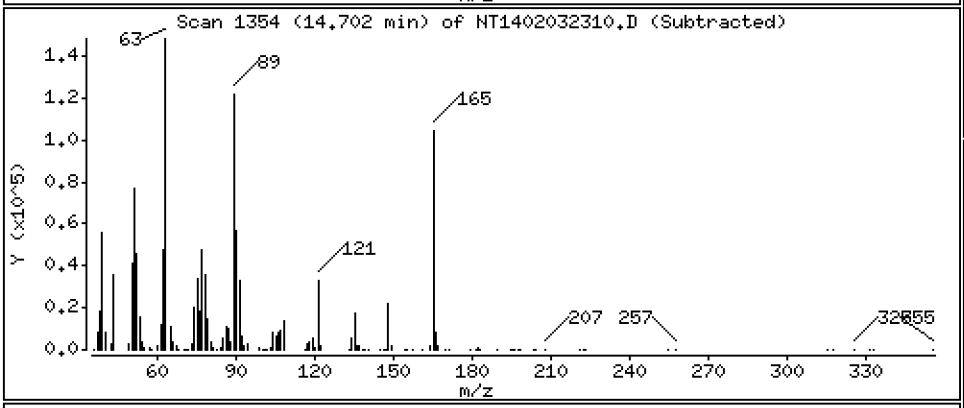
Column phase: ZB-5msi

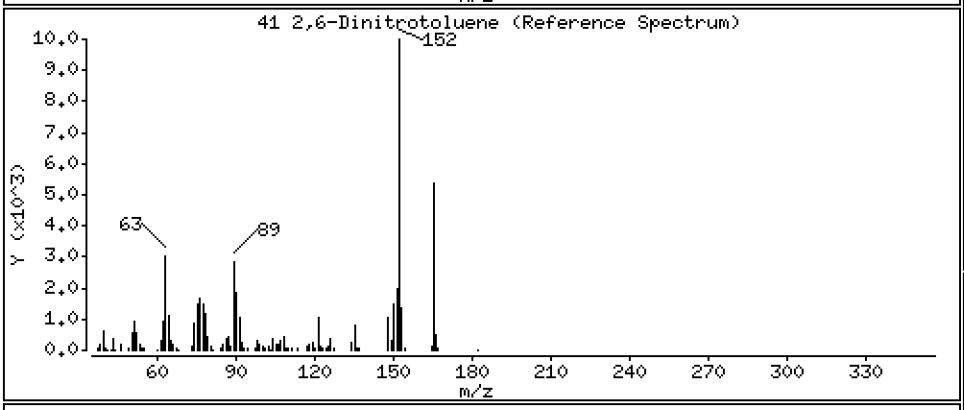
Column diameter: 0.25

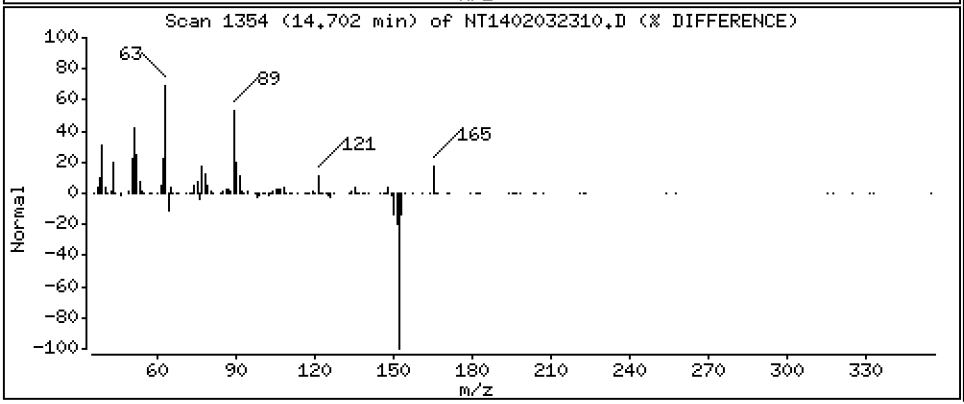
41 2,6-Dinitrotoluene

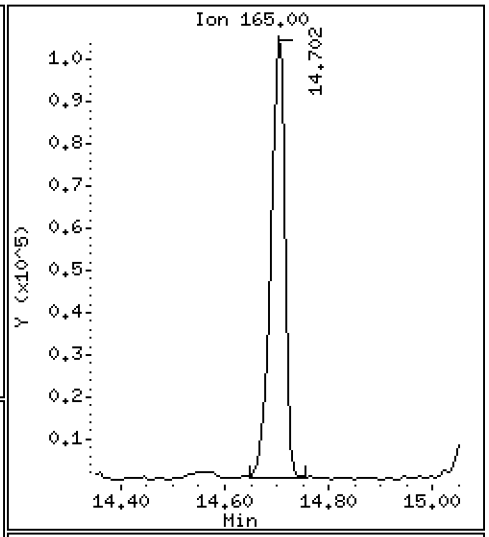
Concentration: 14.42 ug/mL

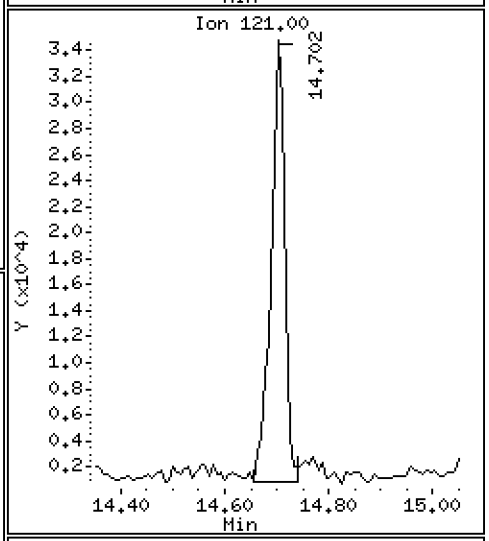


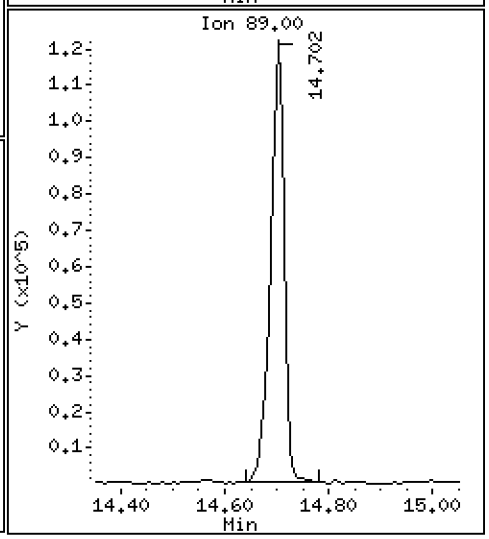












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

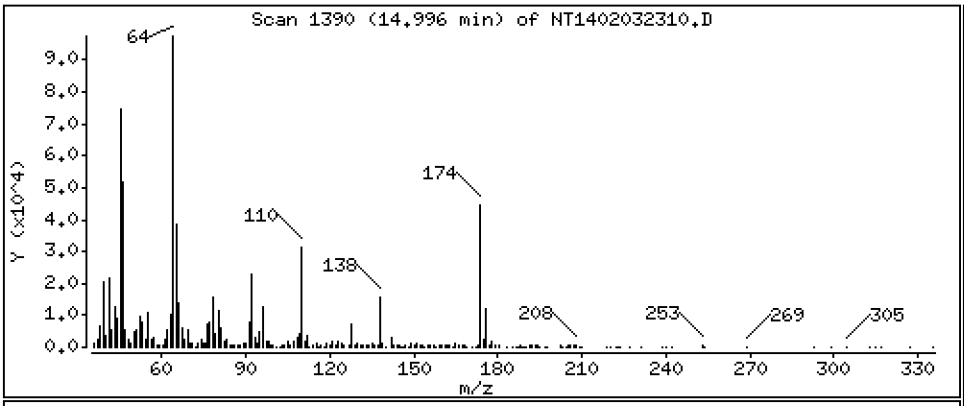
Operator: DSD

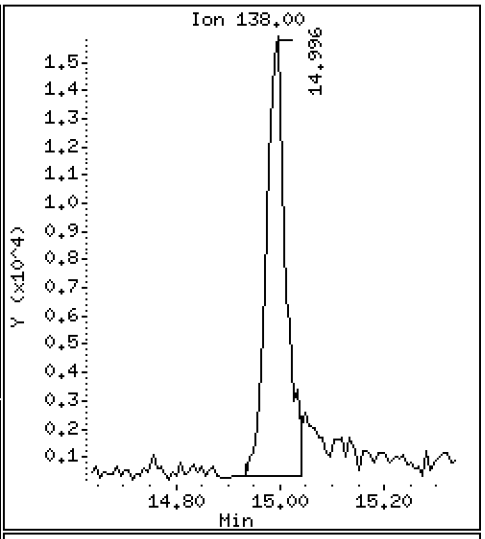
Column phase: ZB-5msi

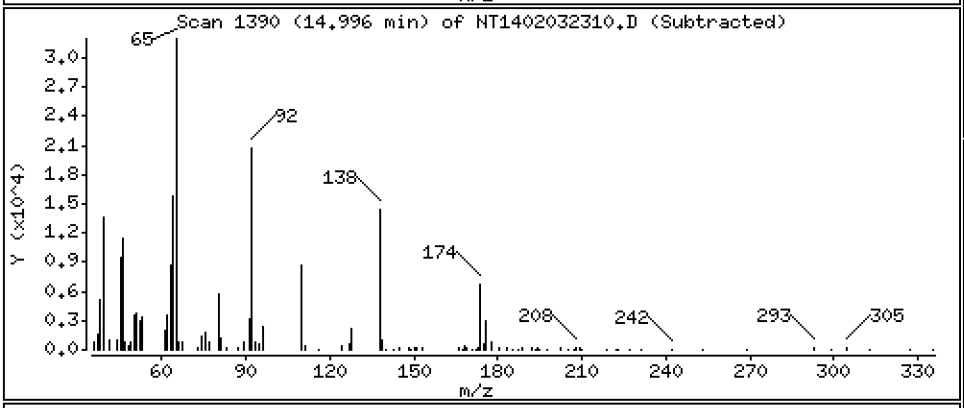
Column diameter: 0.25

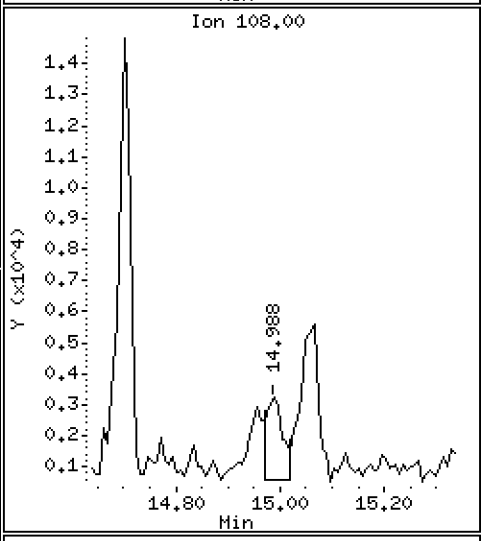
43 3-Nitroaniline

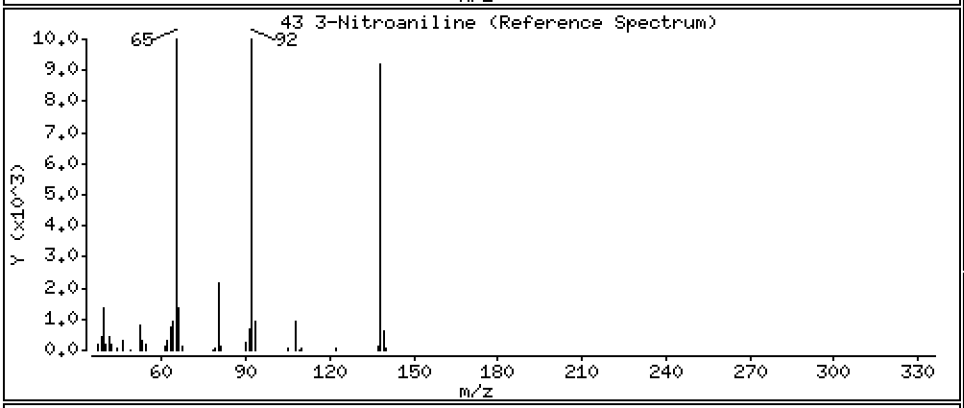
Concentration: 3.137 ug/mL

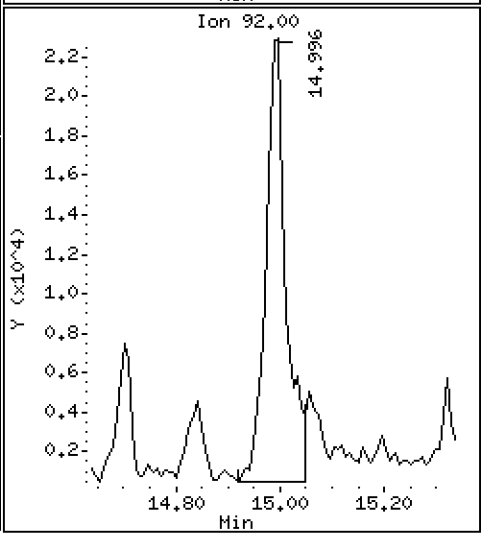


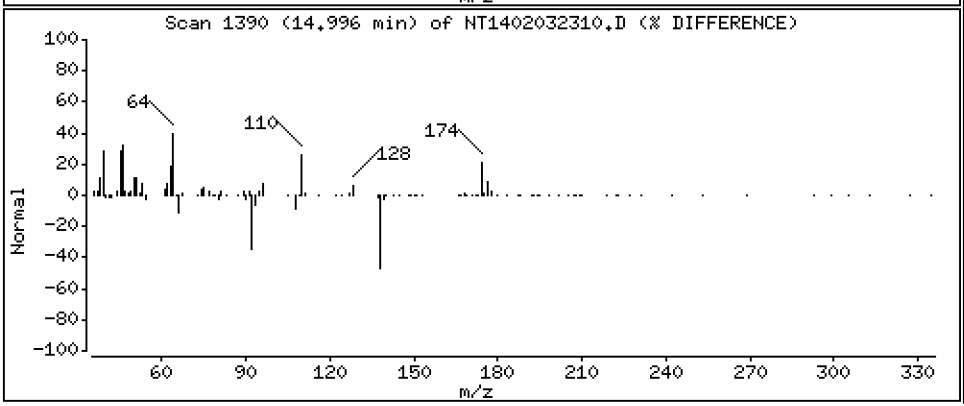












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

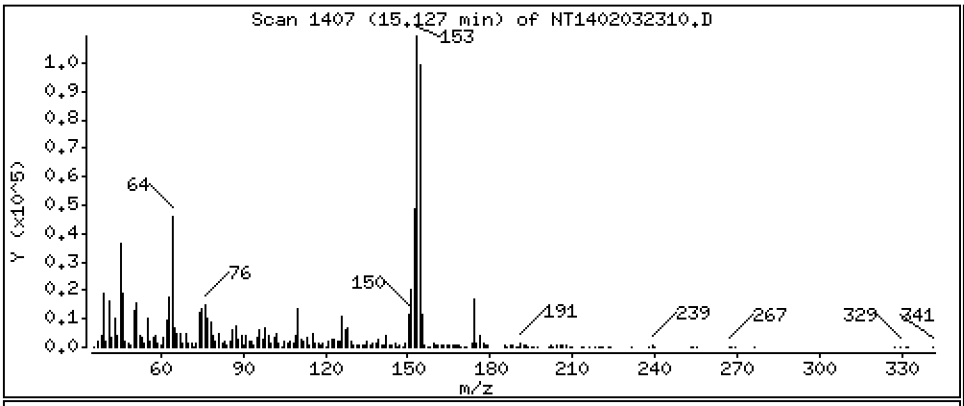
Operator: DSD

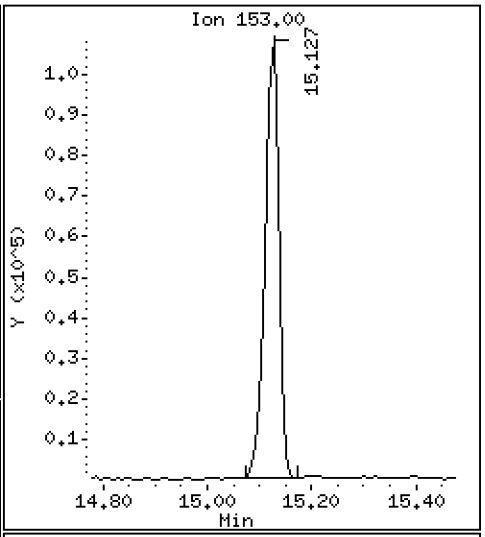
Column phase: ZB-5msi

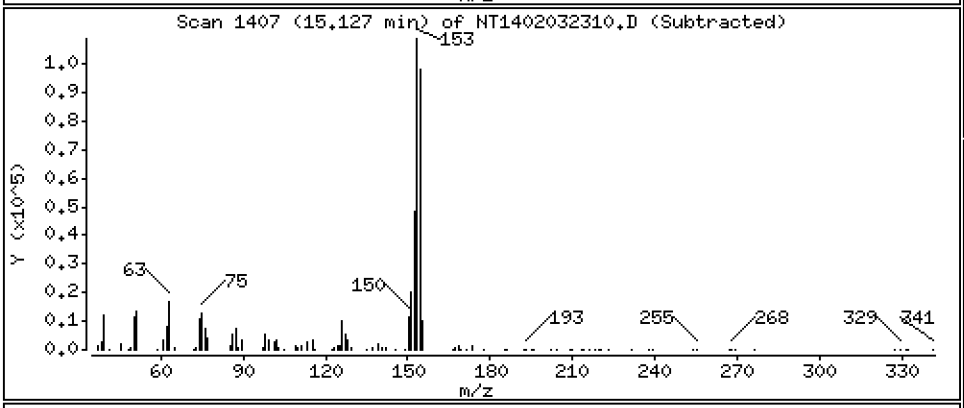
Column diameter: 0.25

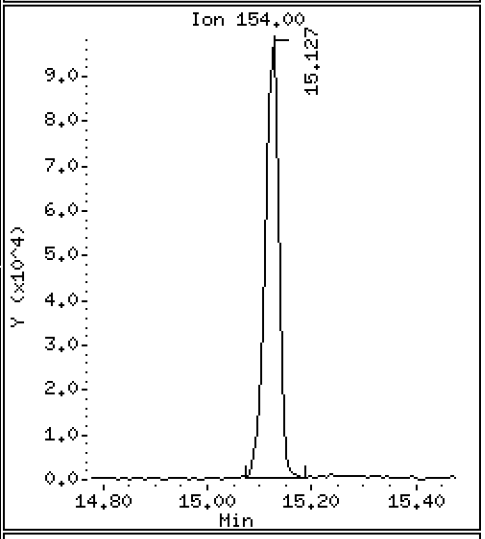
44 Acenaphthene

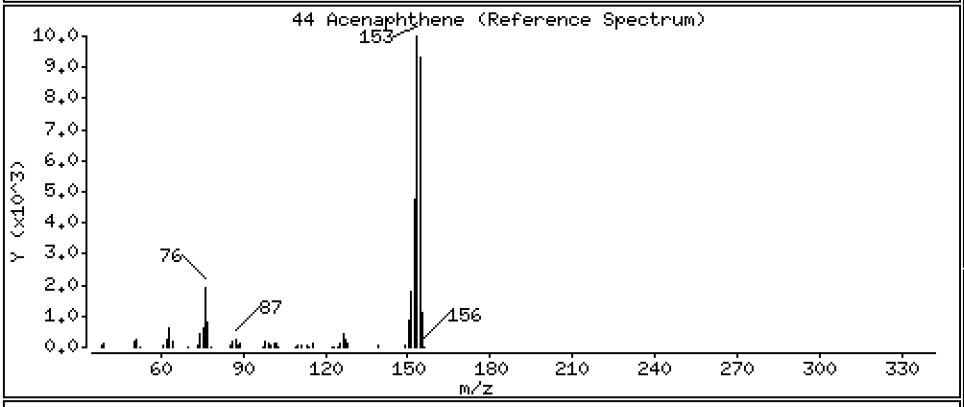
Concentration: 4.075 ug/mL

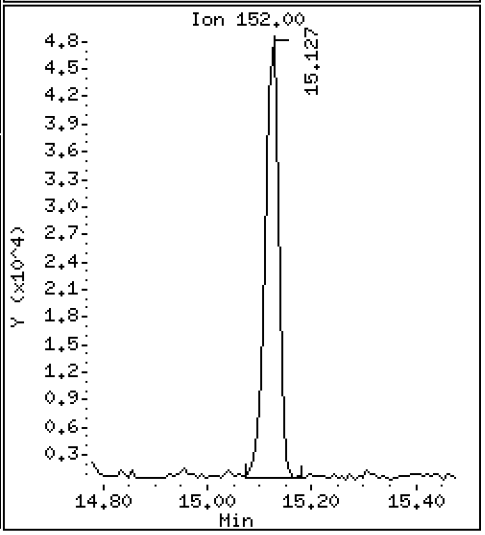


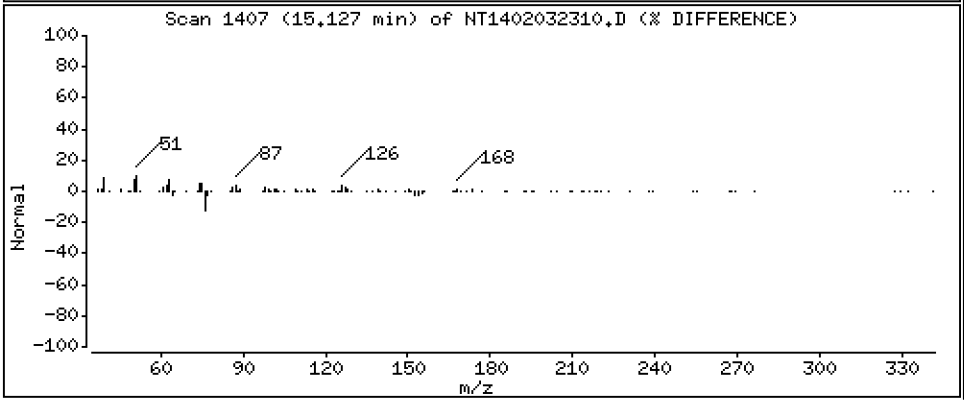












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

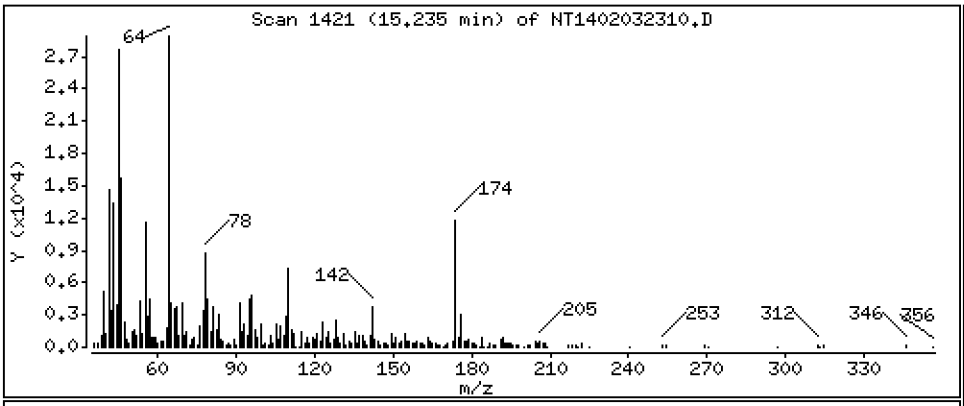
Operator: DSD

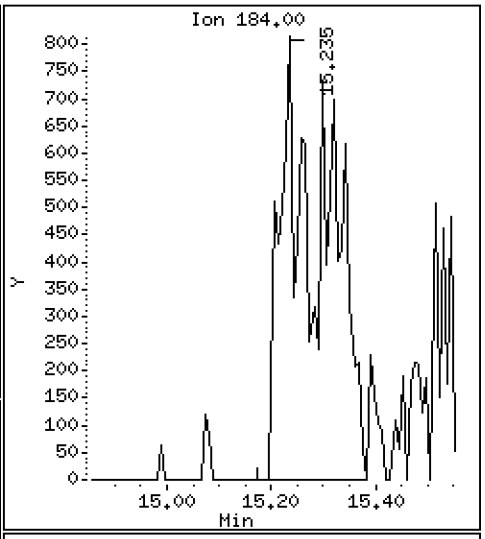
Column phase: ZB-5msi

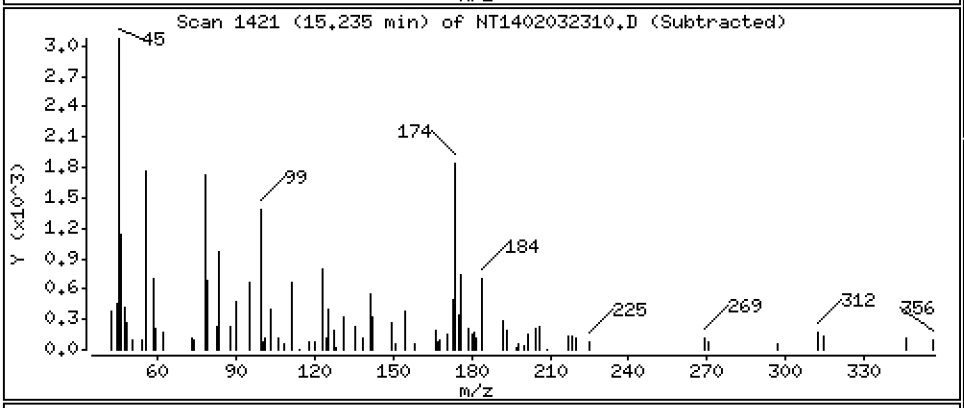
Column diameter: 0.25

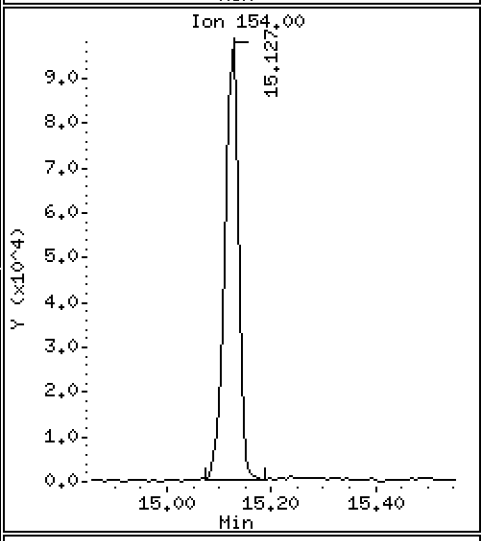
45 2,4-Dinitrophenol

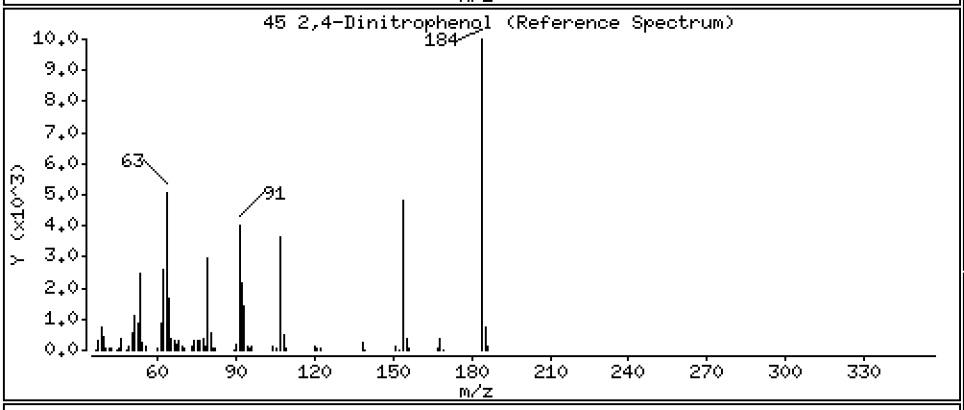
Concentration: 0.3744 ug/mL

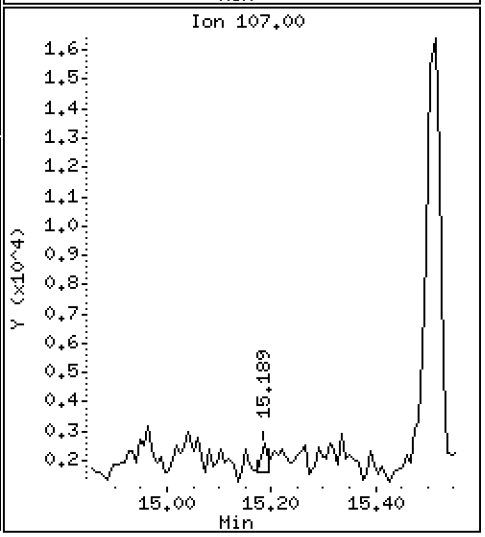


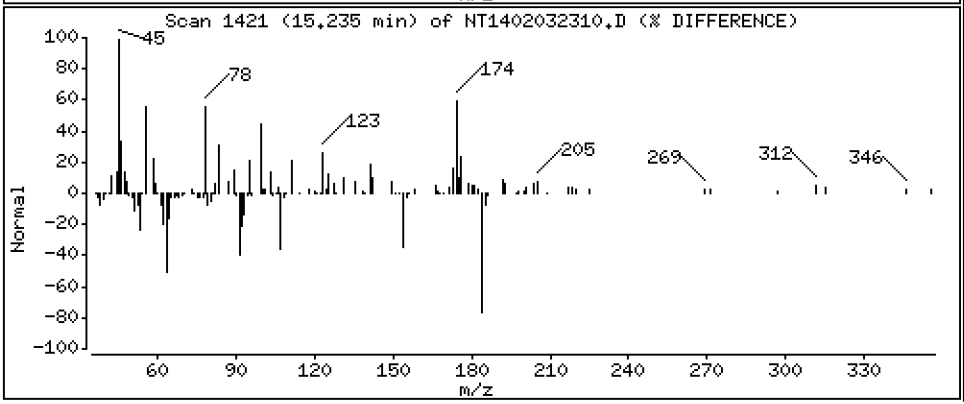












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

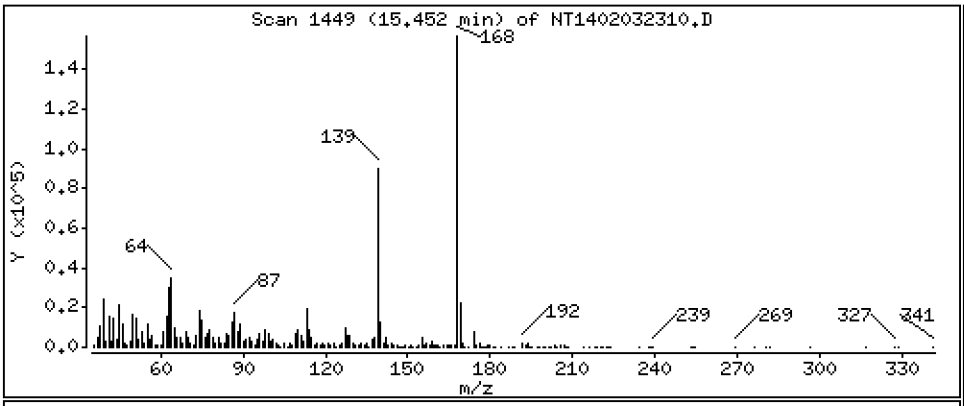
Operator: DSD

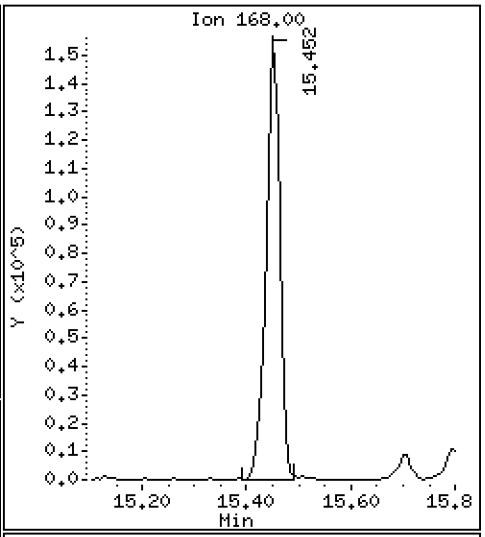
Column phase: ZB-5msi

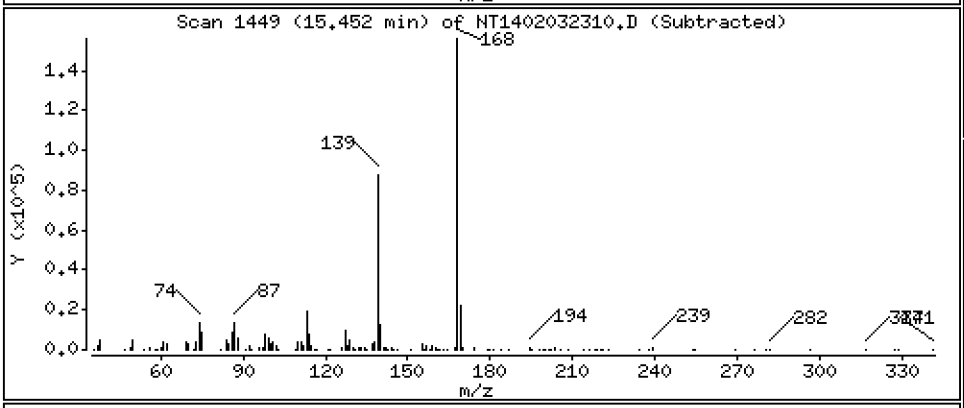
Column diameter: 0.25

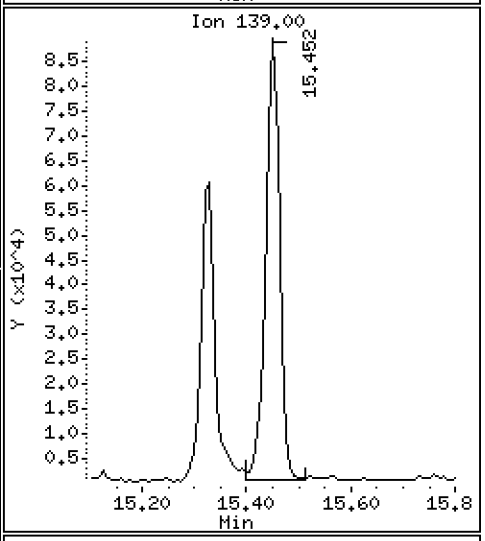
46 Dibenzofuran

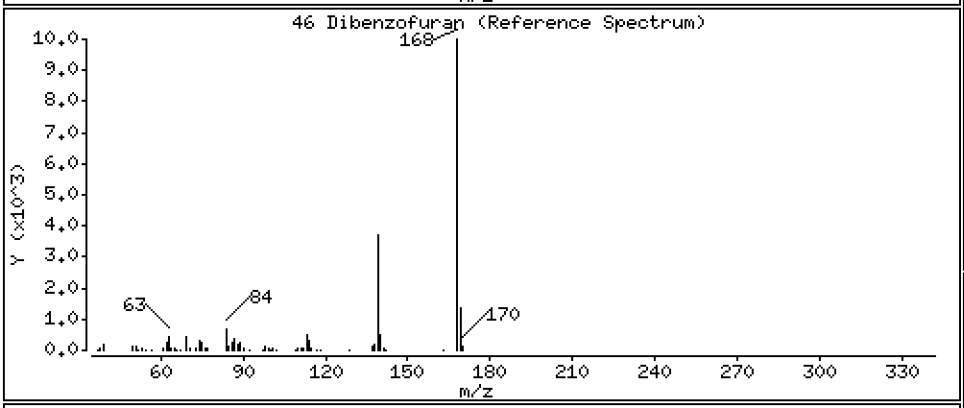
Concentration: 3.980 ug/mL

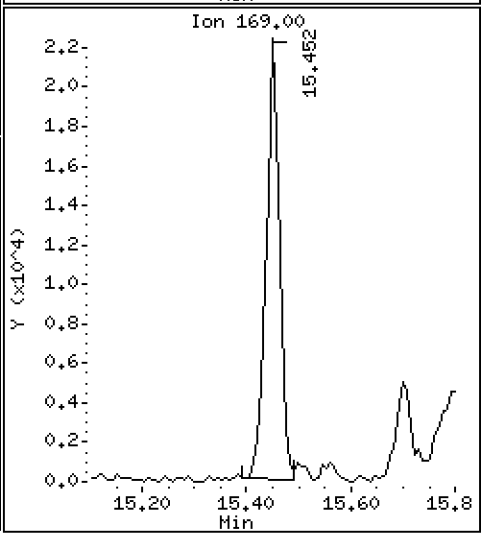


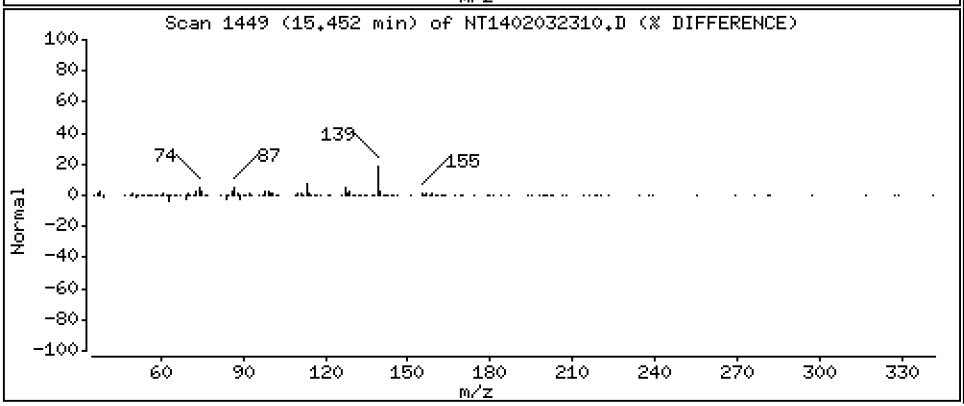












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

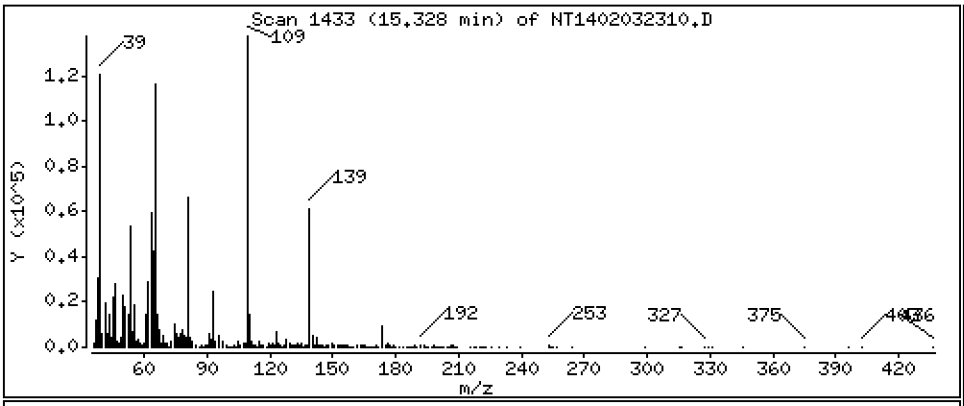
Operator: DSD

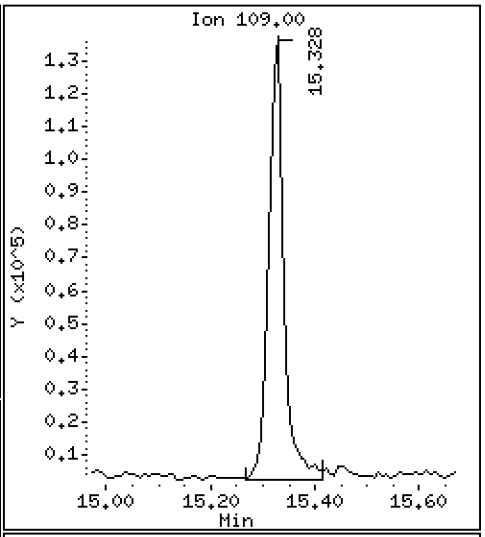
Column phase: ZB-5msi

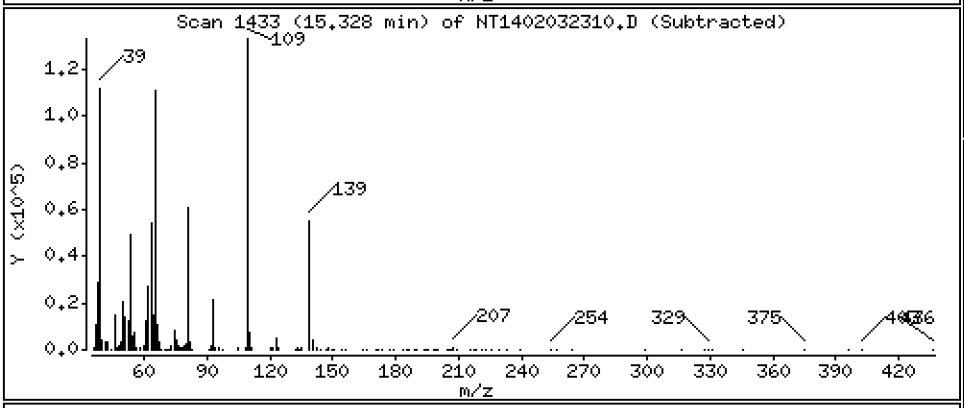
Column diameter: 0.25

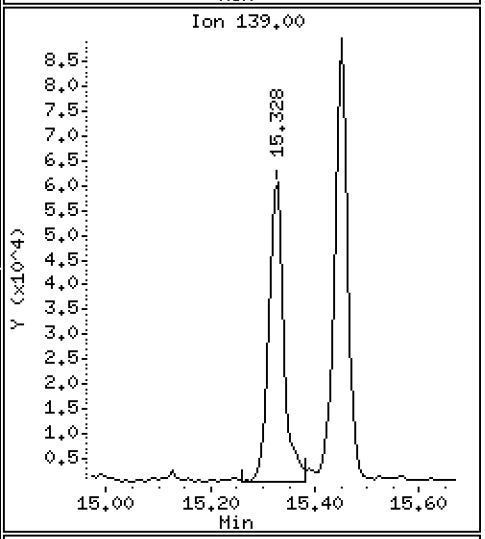
47 4-Nitrophenol

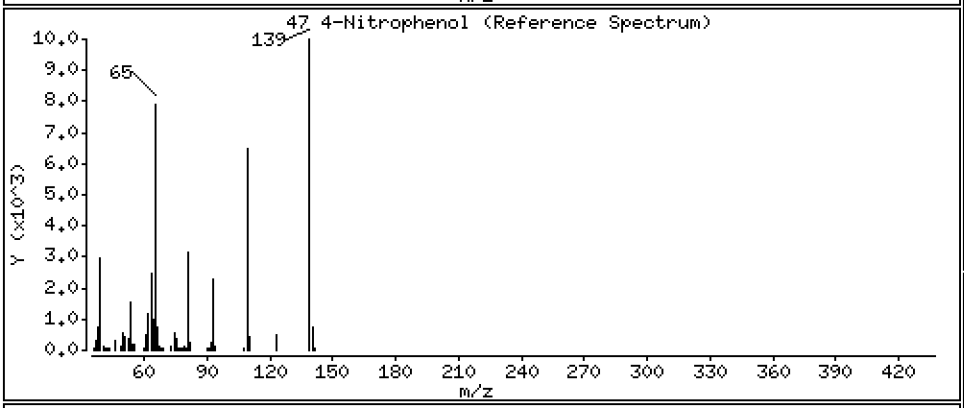
Concentration: 10.02 ug/mL

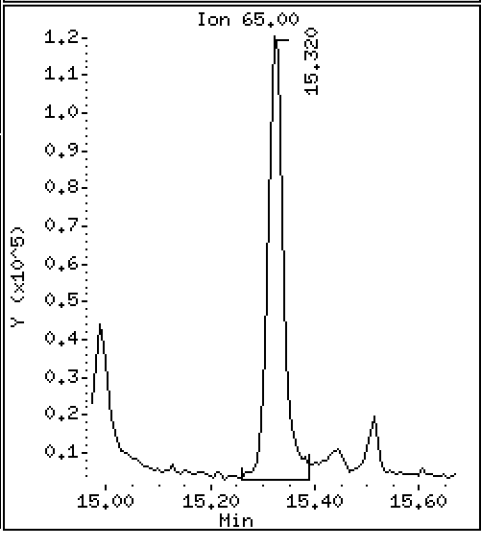


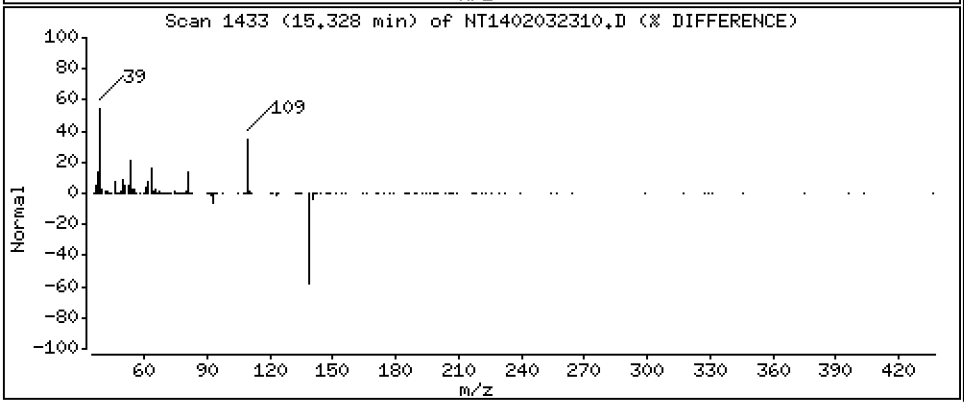












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

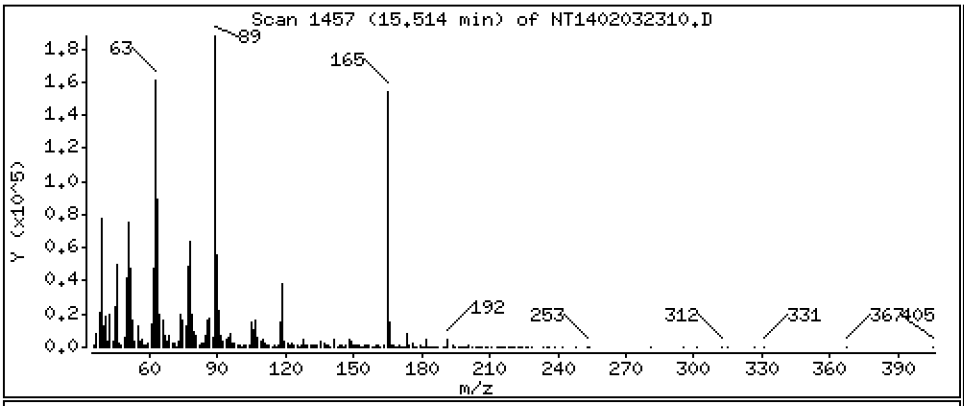
Operator: DSD

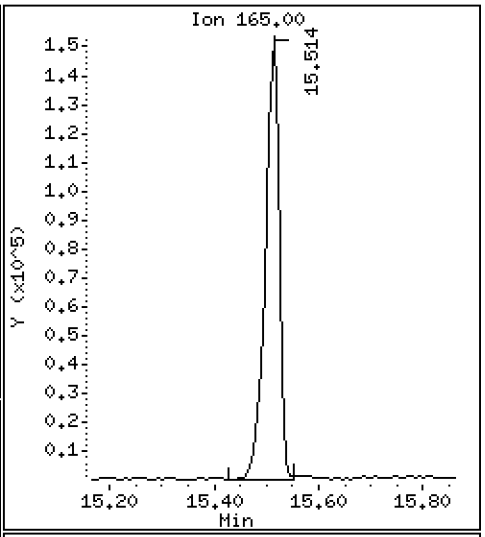
Column phase: ZB-5msi

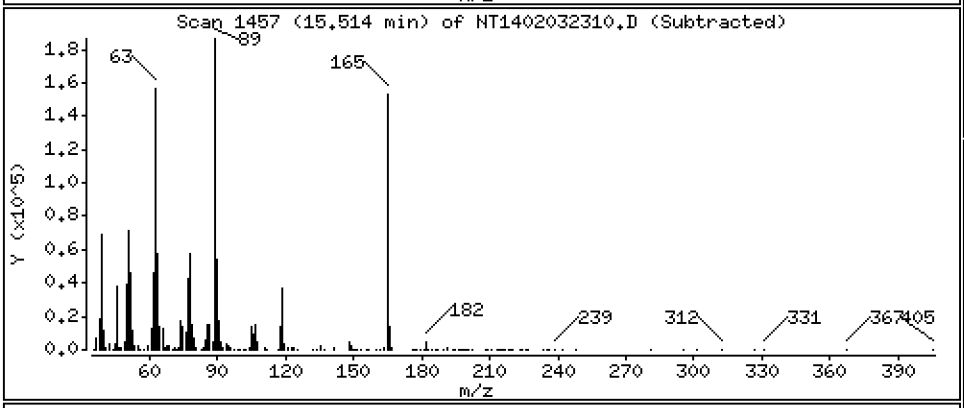
Column diameter: 0.25

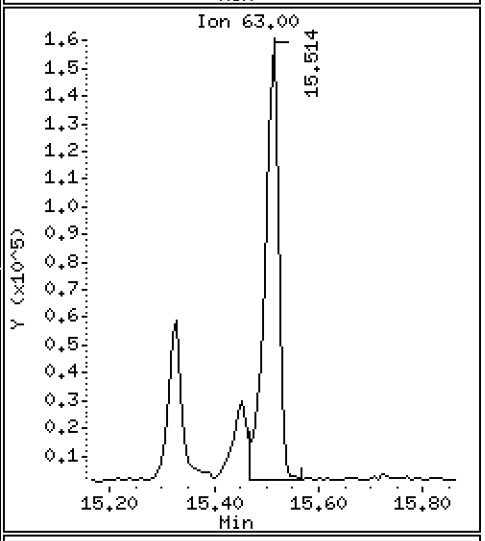
48 2,4-Dinitrotoluene

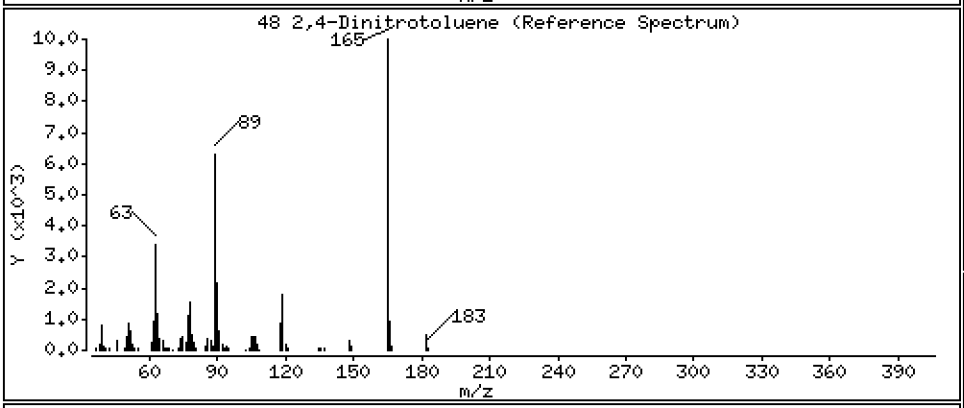
Concentration: 14.75 ug/mL

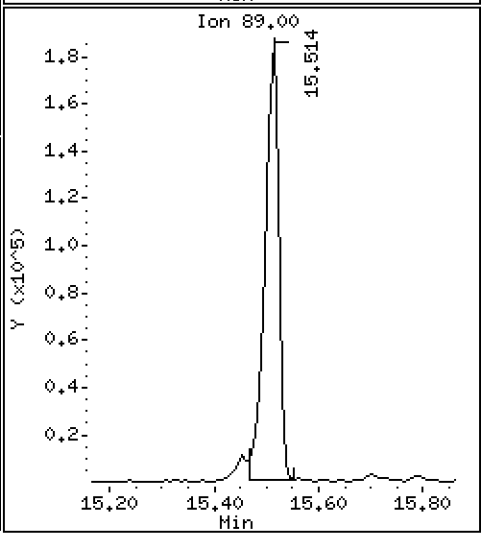


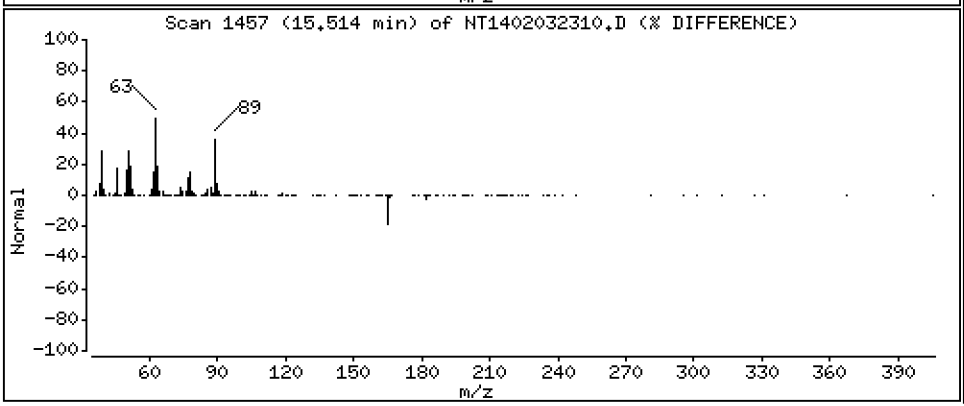












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

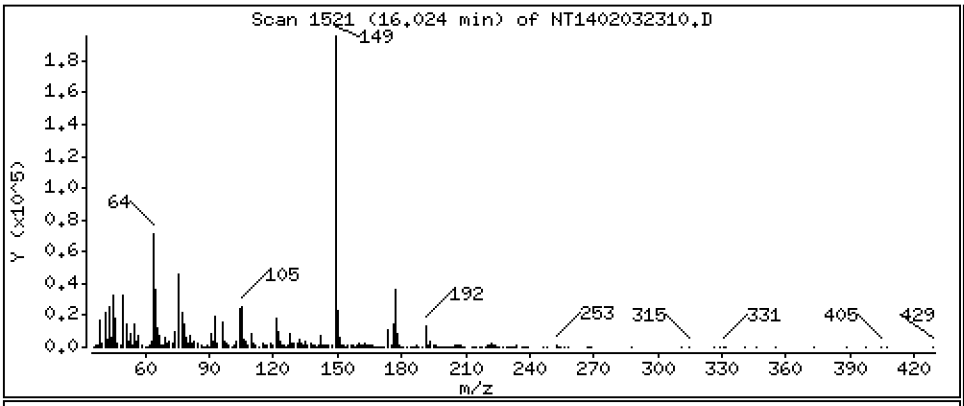
Operator: DSD

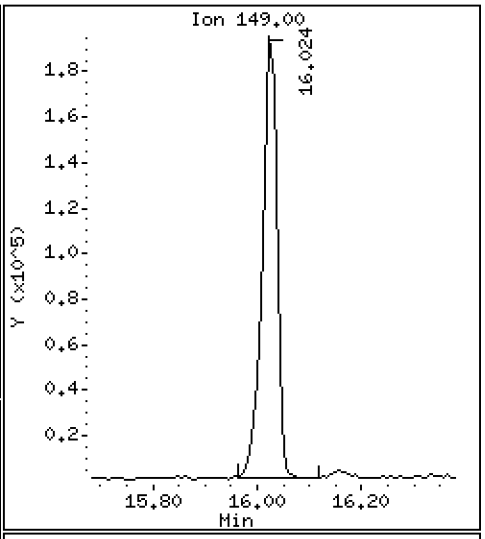
Column phase: ZB-5msi

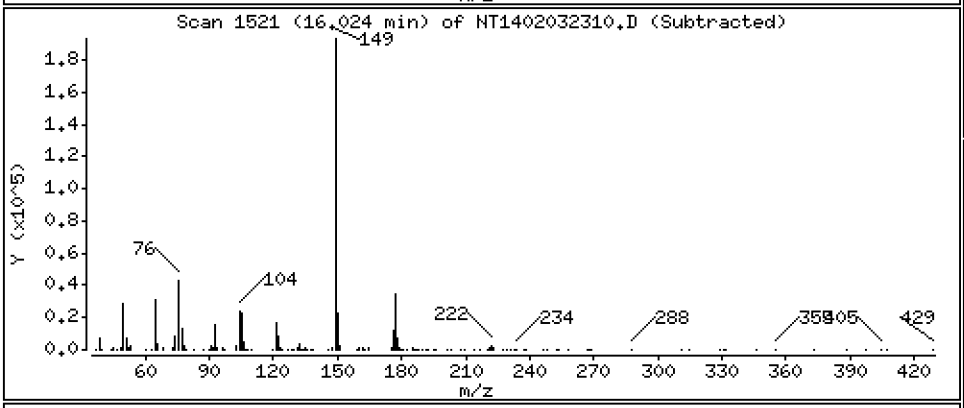
Column diameter: 0.25

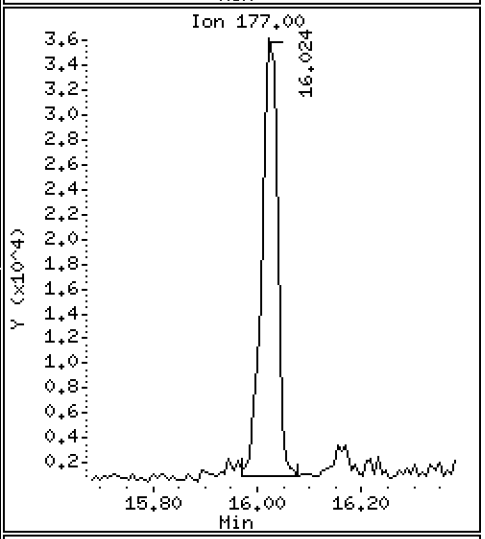
50 Diethylphthalate

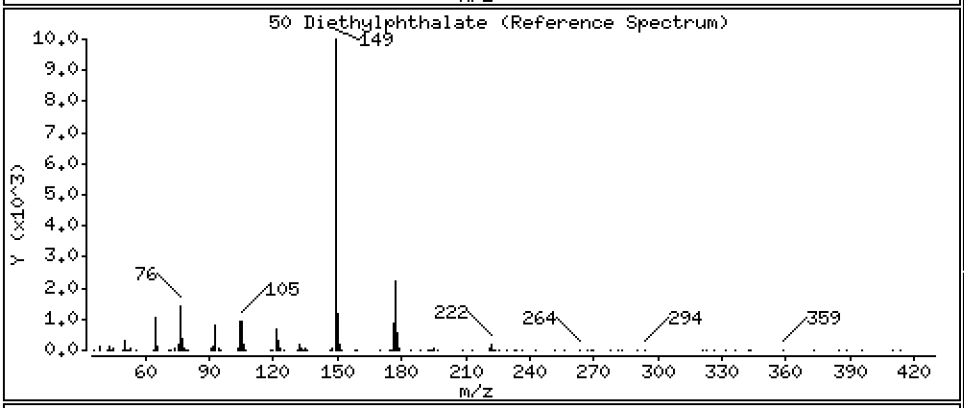
Concentration: 4.890 ug/mL

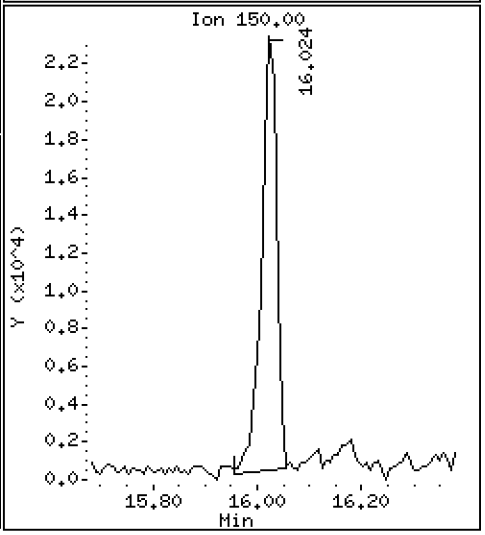


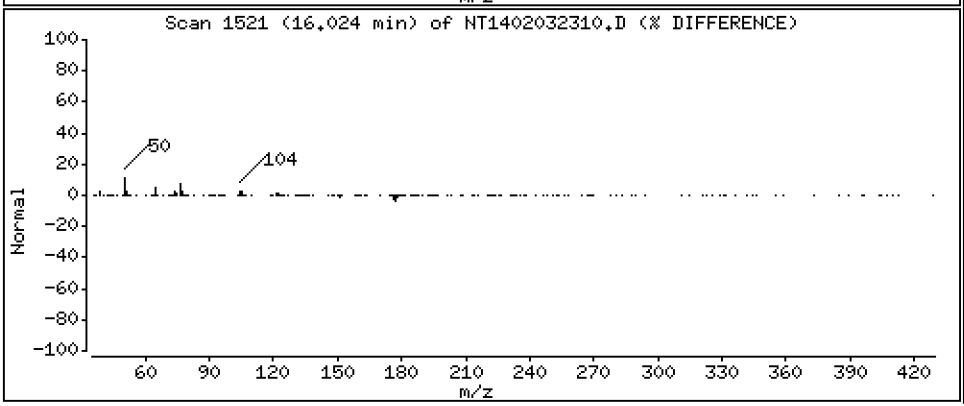












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

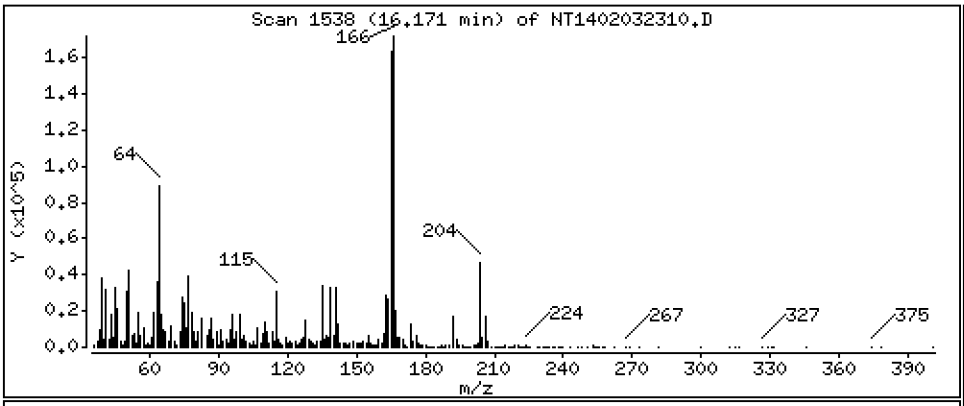
Operator: DSD

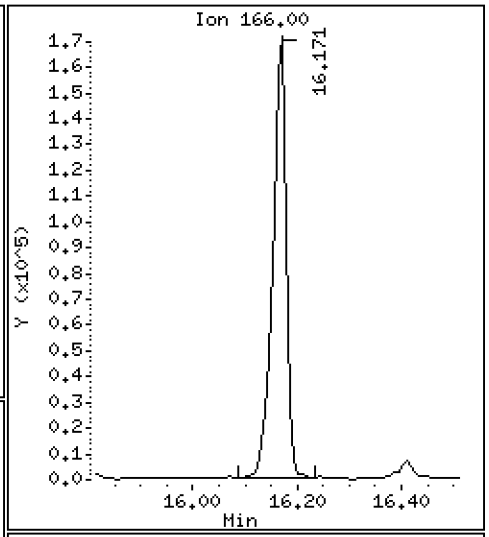
Column phase: ZB-5msi

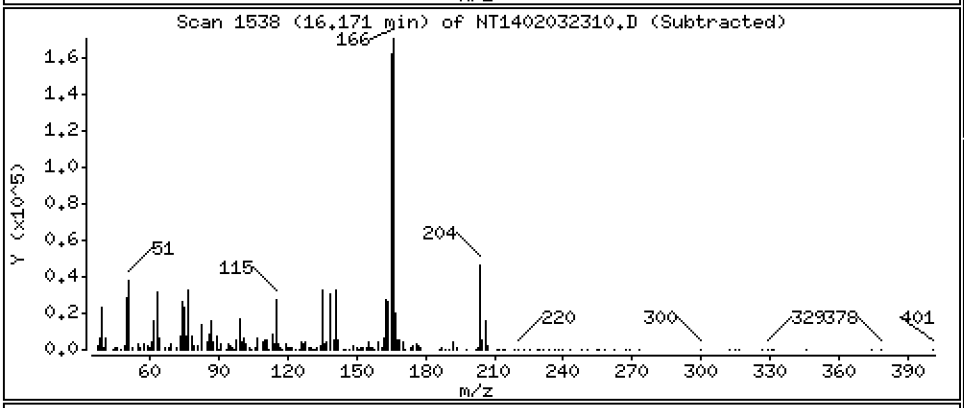
Column diameter: 0.25

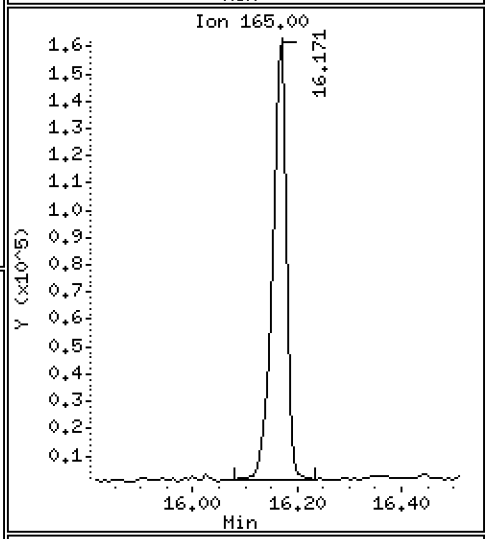
49 Fluorene

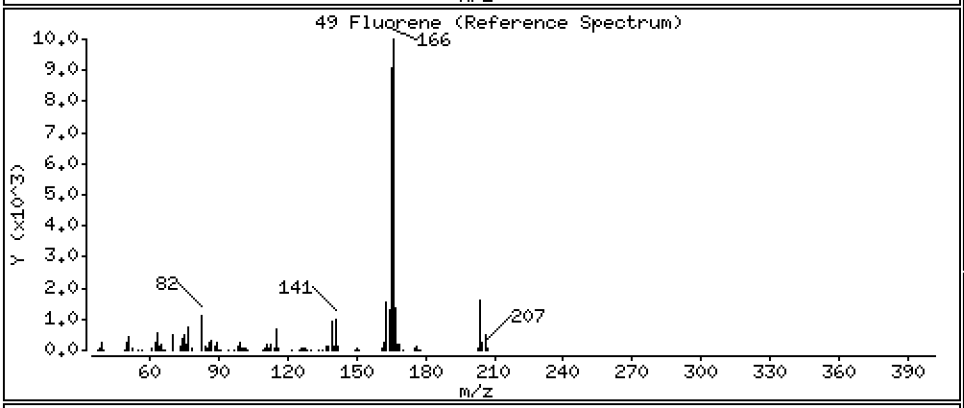
Concentration: 3.946 ug/mL

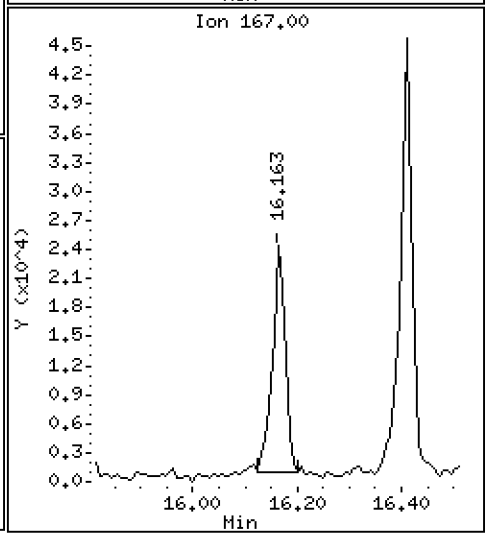


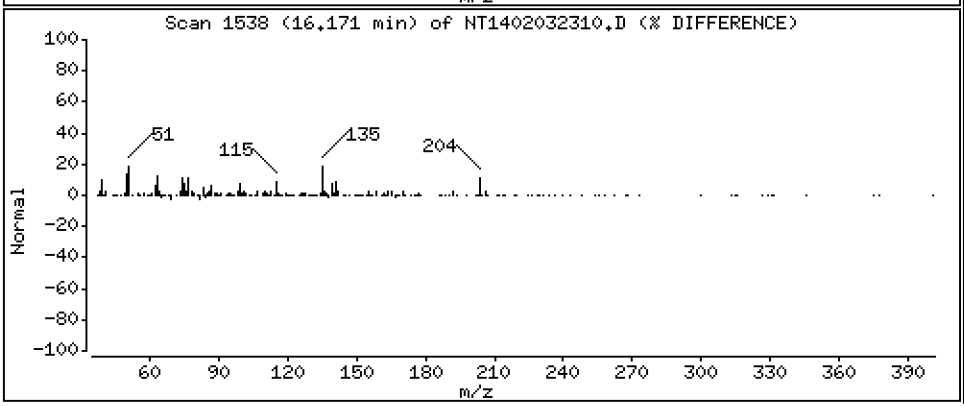












Date : 03-FEB-2023 18:32

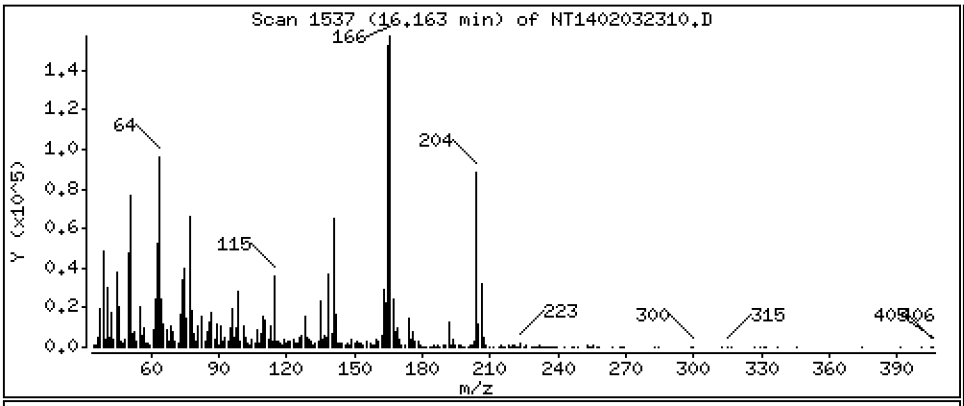
Client ID: Instrument: nt14.i

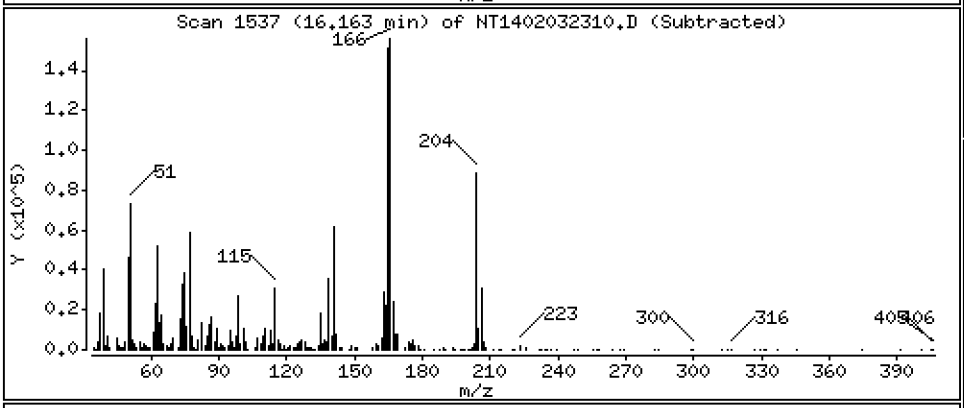
Sample Info: BLA0064-MS1

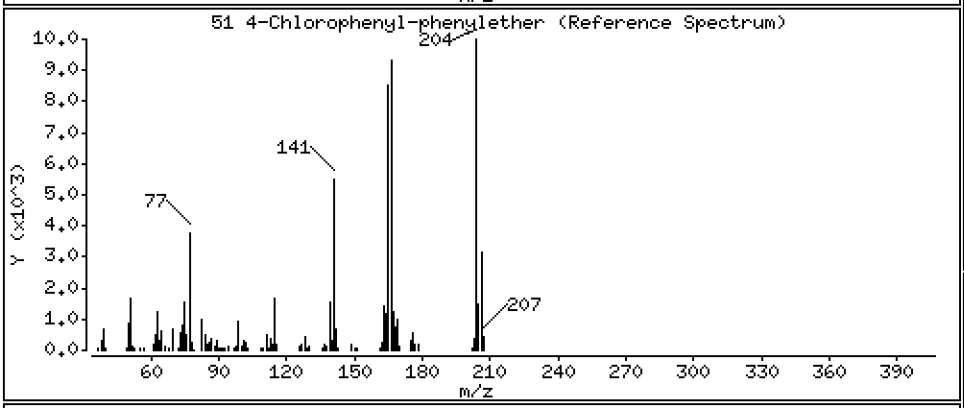
Operator: DSD

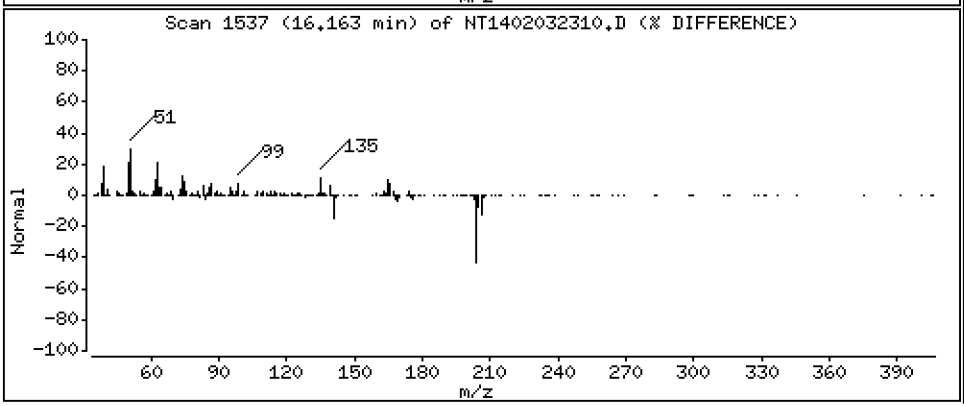
Column phase: ZB-5msi Column diameter: 0.25

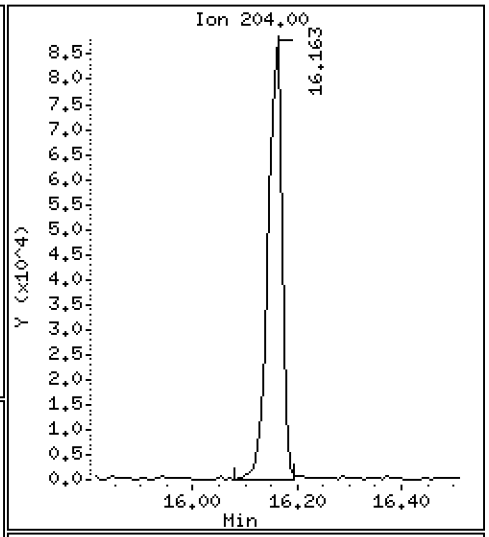
51 4-Chlorophenyl-phenylether Concentration: 3.790 ug/mL

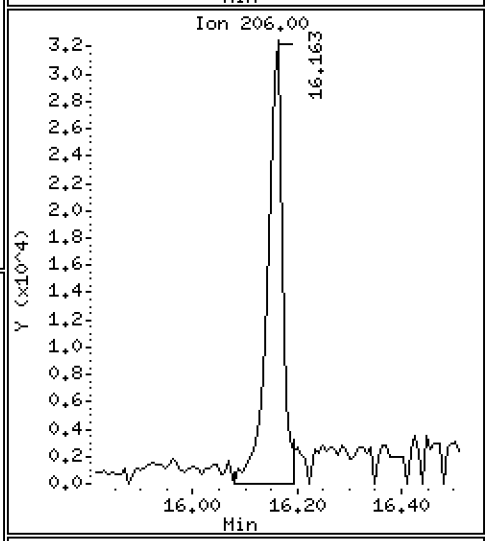


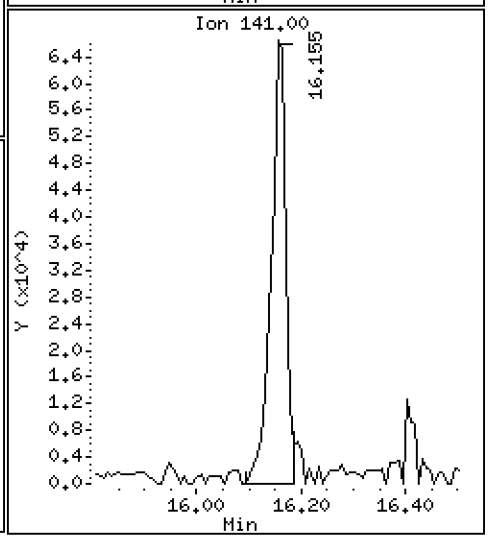












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

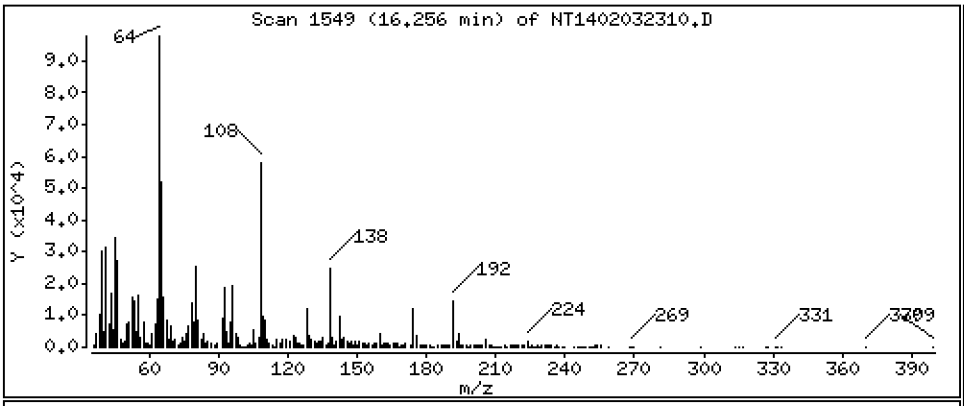
Operator: DSD

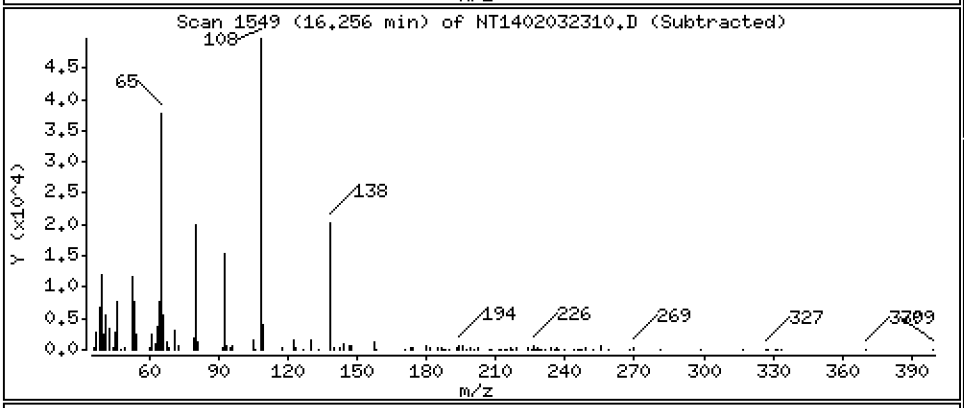
Column phase: ZB-5msi

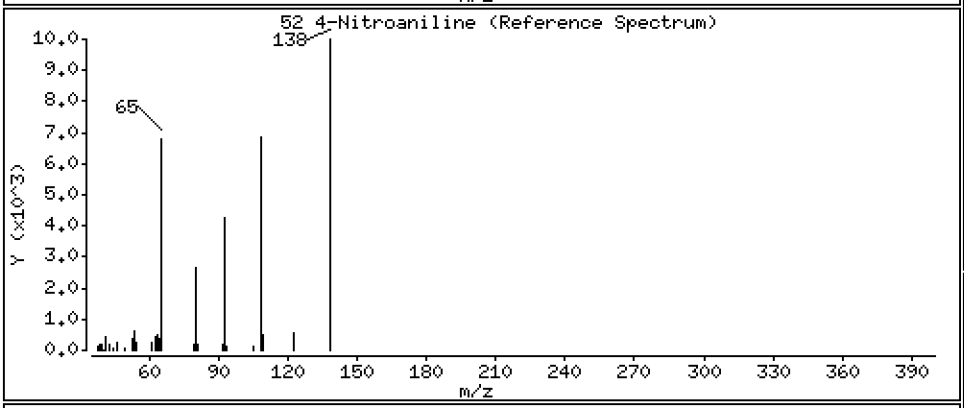
Column diameter: 0.25

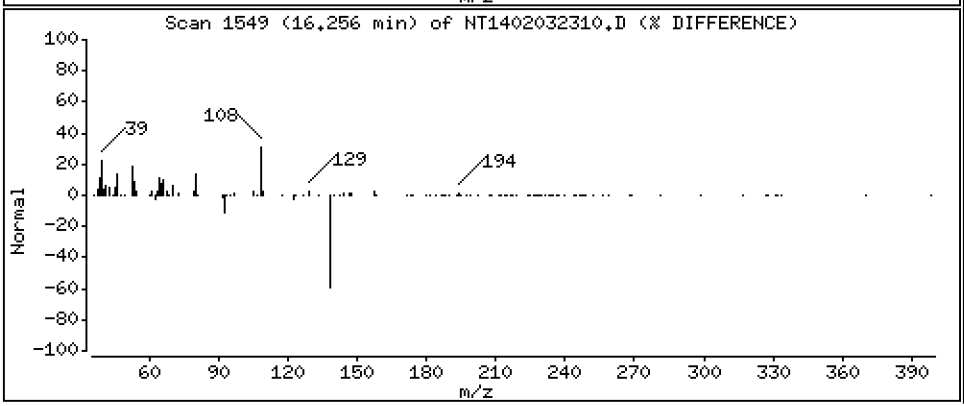
52 4-Nitroaniline

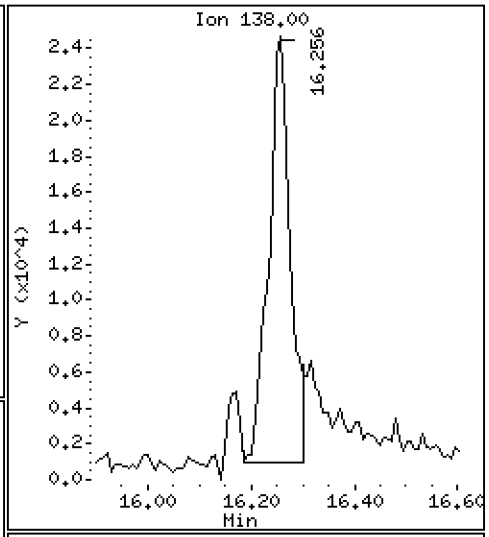
Concentration: 4.520 ug/mL

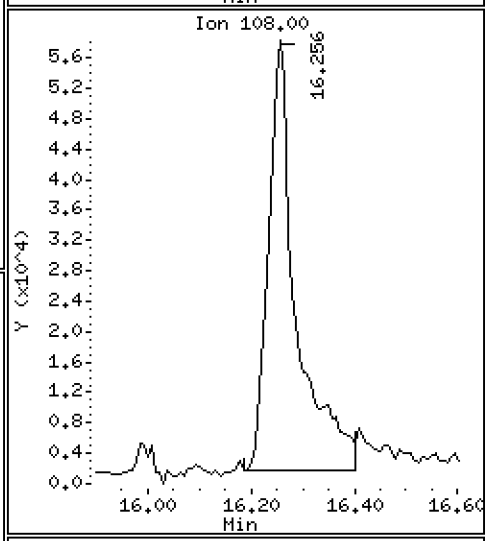


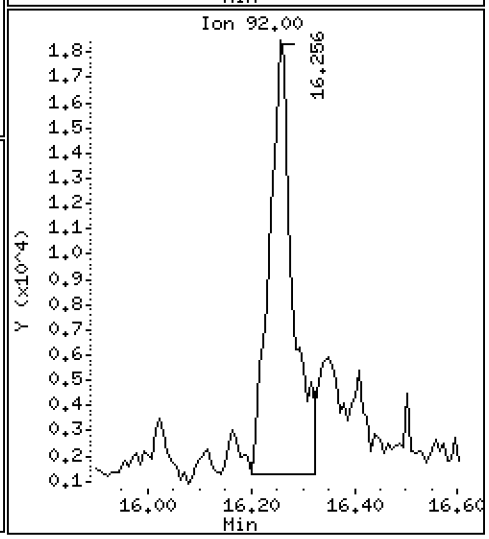












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

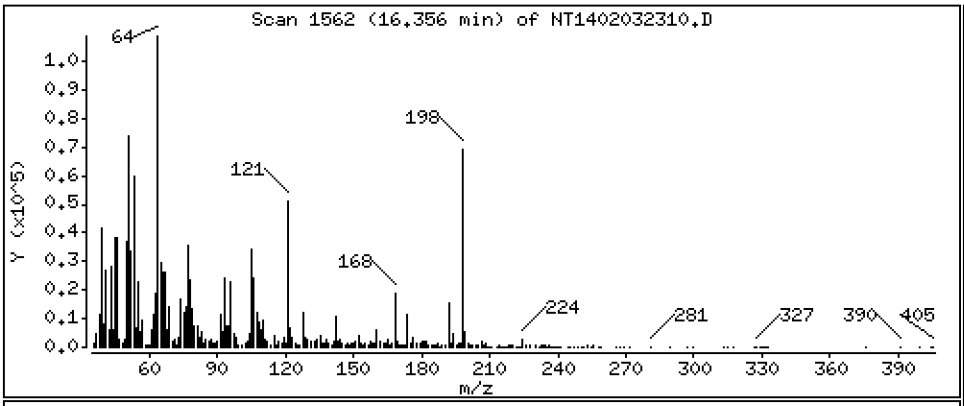
Operator: DSD

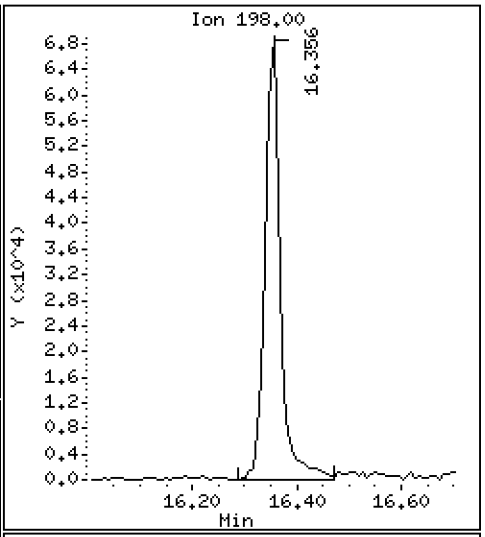
Column phase: ZB-5msi

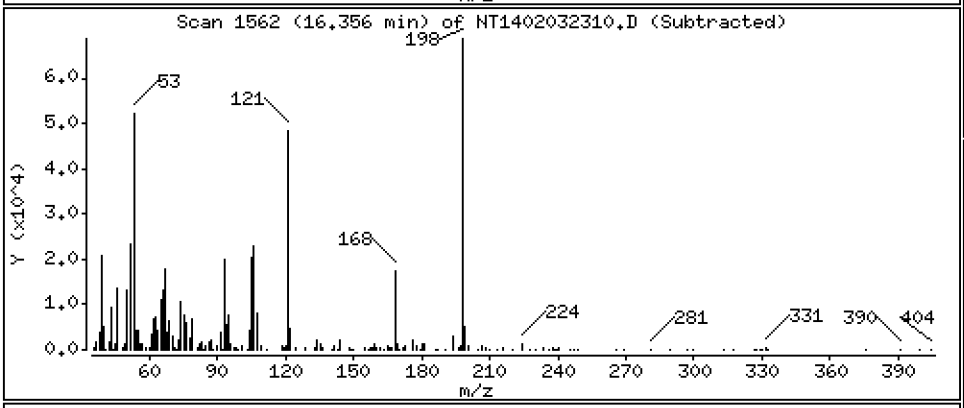
Column diameter: 0.25

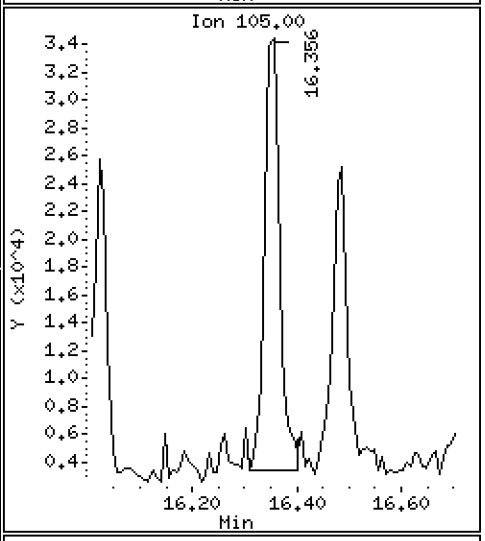
53 4,6-Dinitro-2-methylphenol

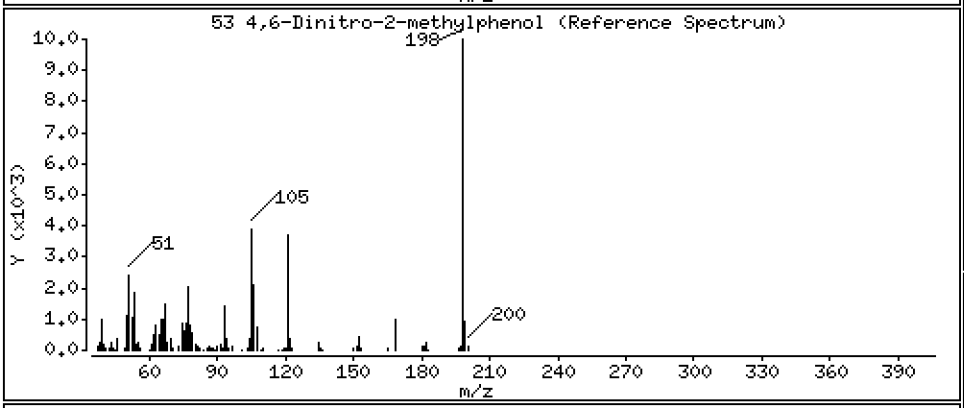
Concentration: 7.029 ug/mL

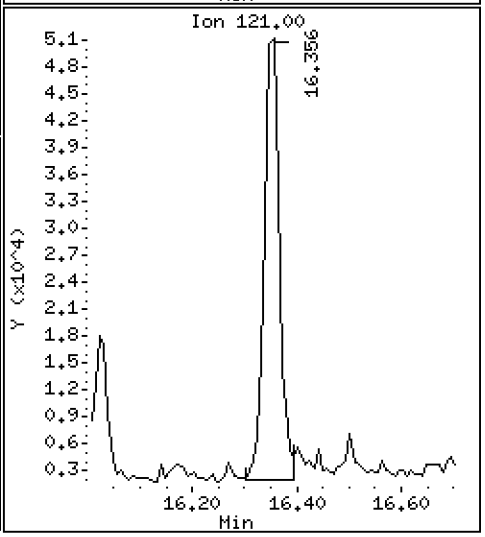


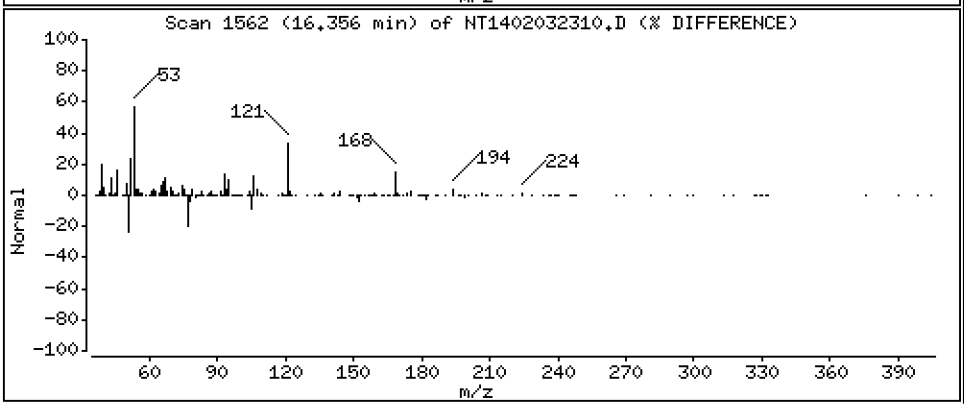












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

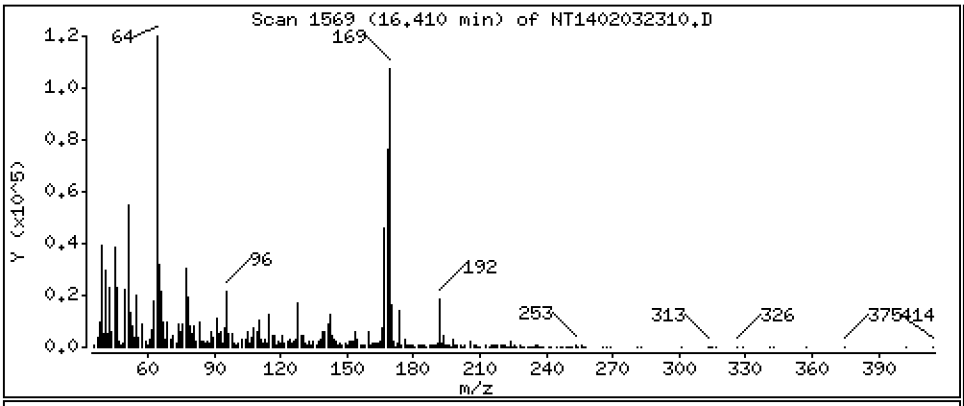
Operator: DSD

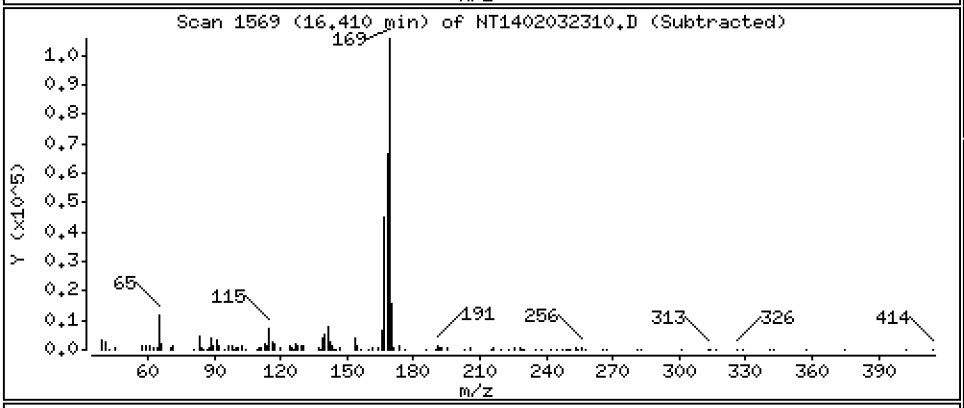
Column phase: ZB-5msi

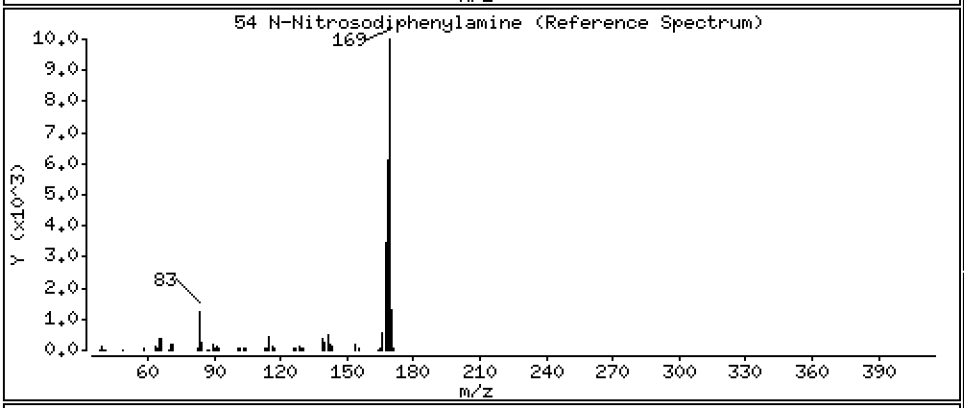
Column diameter: 0.25

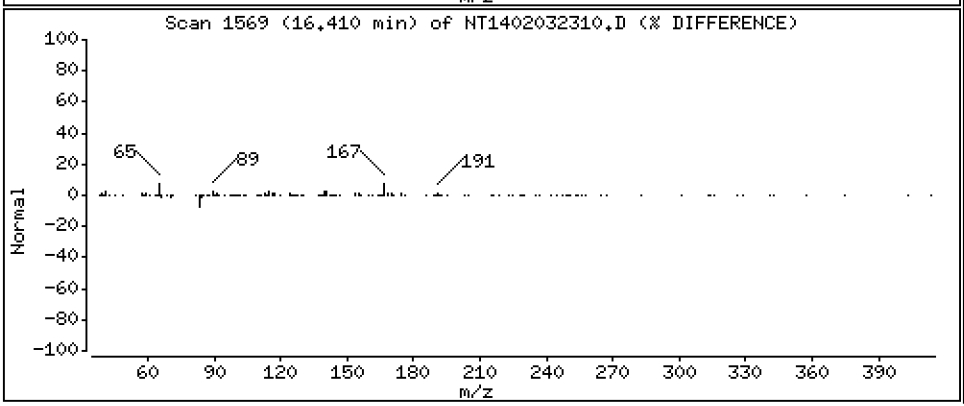
54 N-Nitrosodiphenylamine

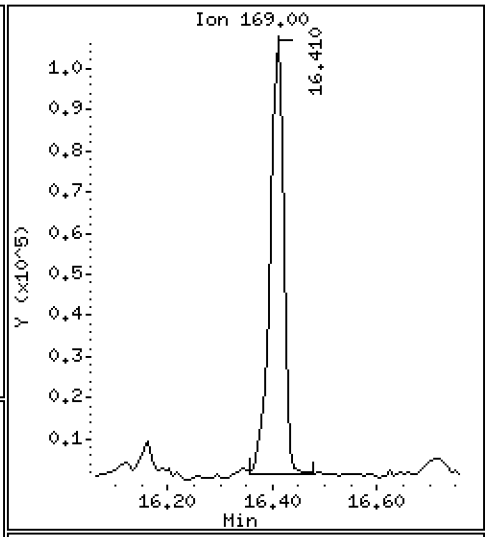
Concentration: 3.368 ug/mL

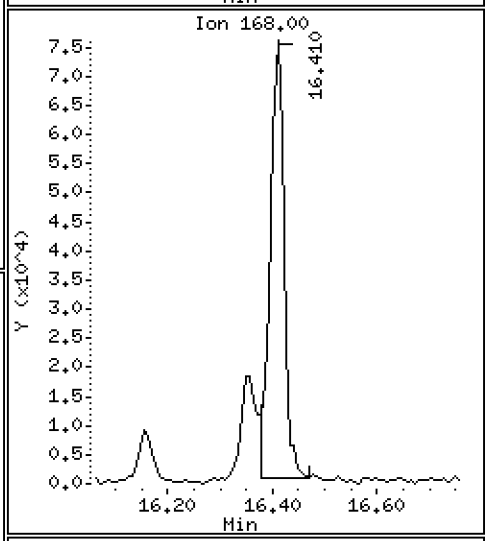


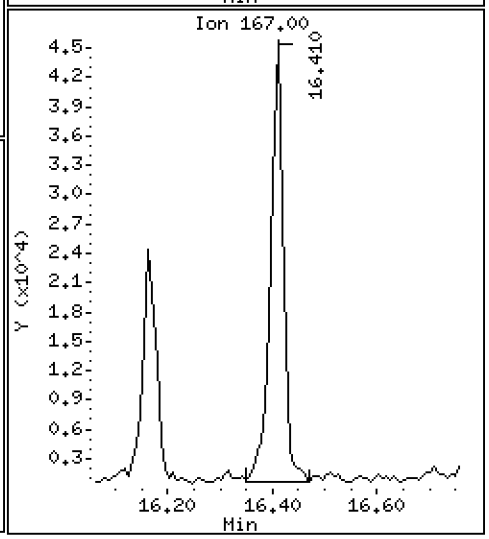












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

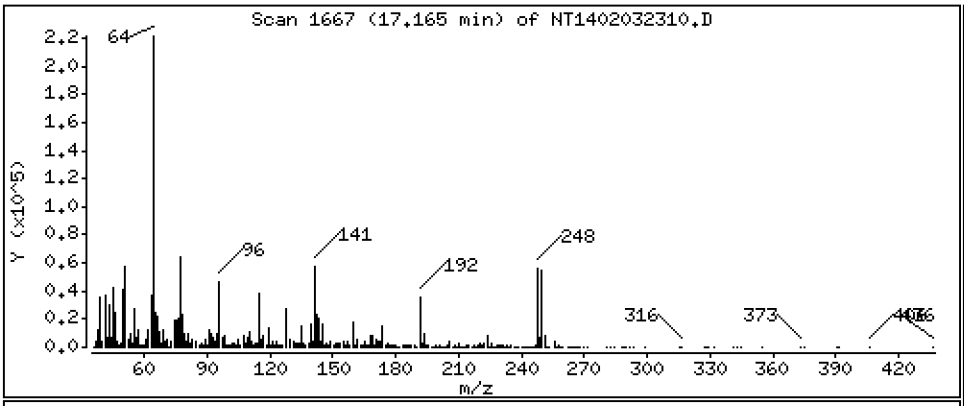
Operator: DSD

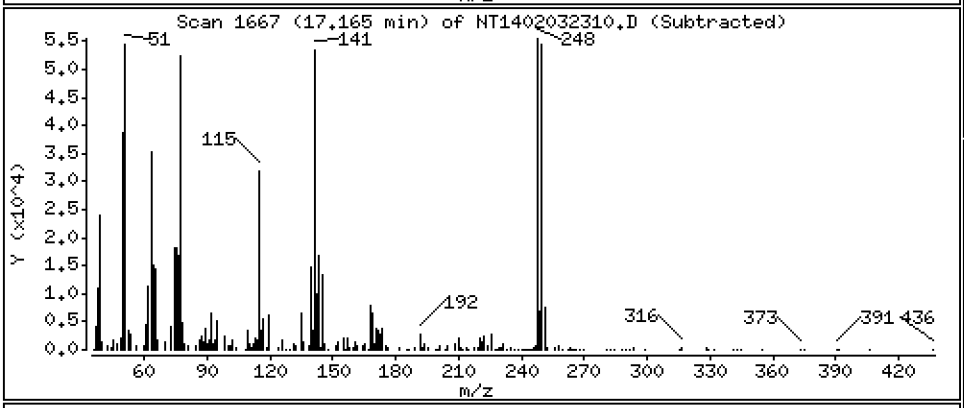
Column phase: ZB-5msi

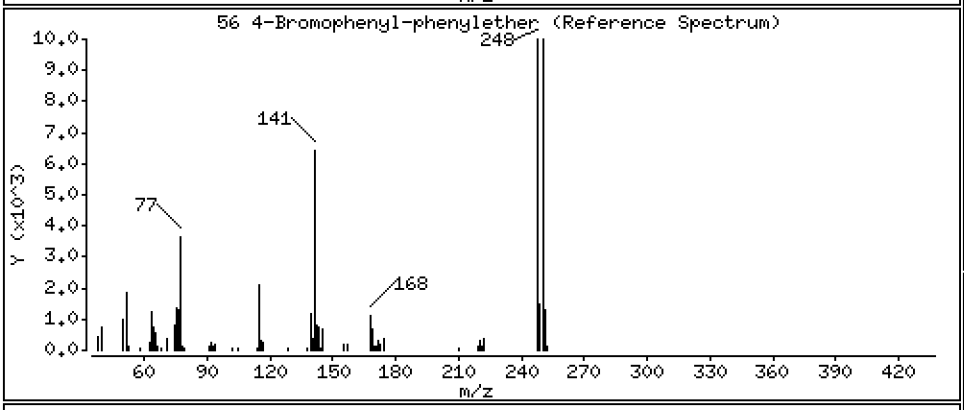
Column diameter: 0.25

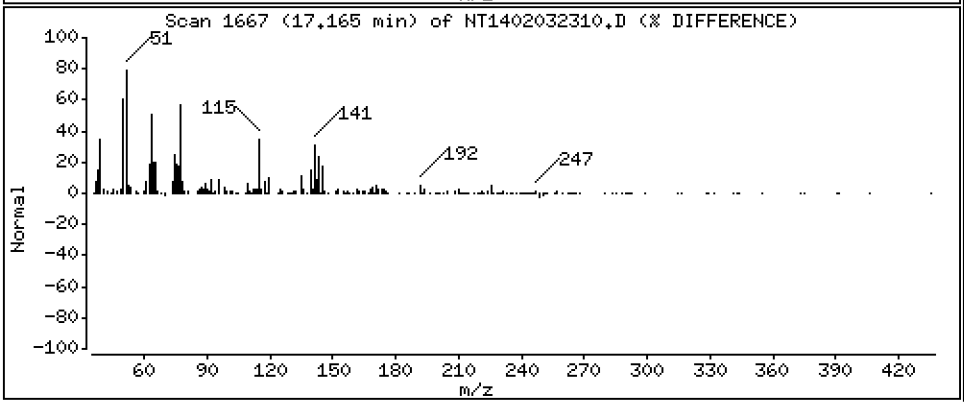
56 4-Bromophenyl-phenylether

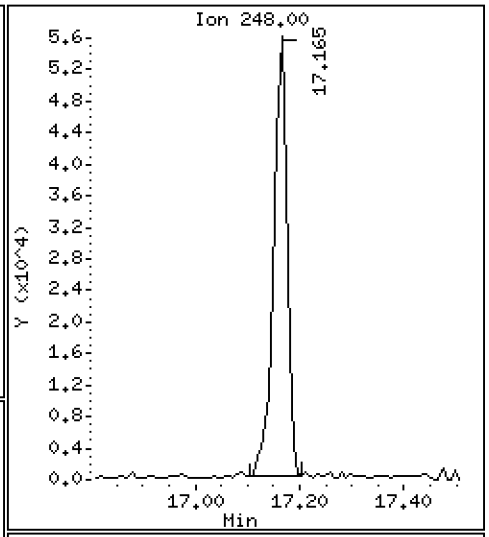
Concentration: 3.762 ug/mL

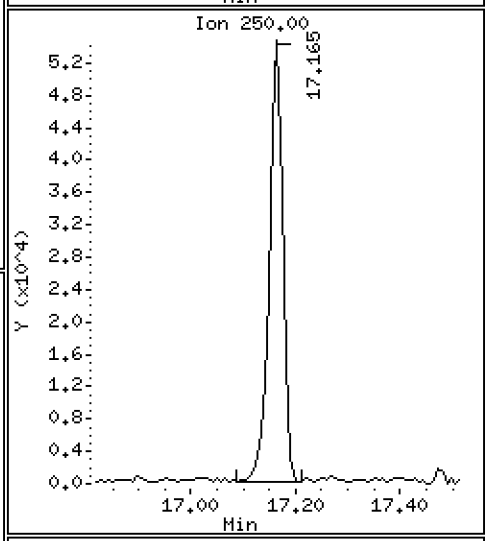


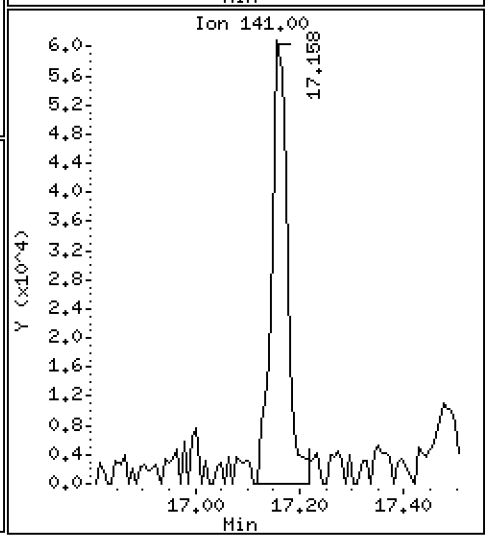












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

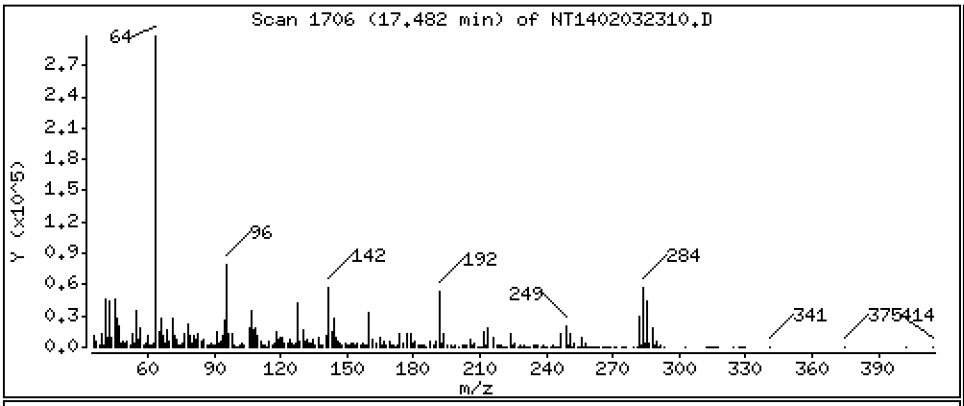
Operator: DSD

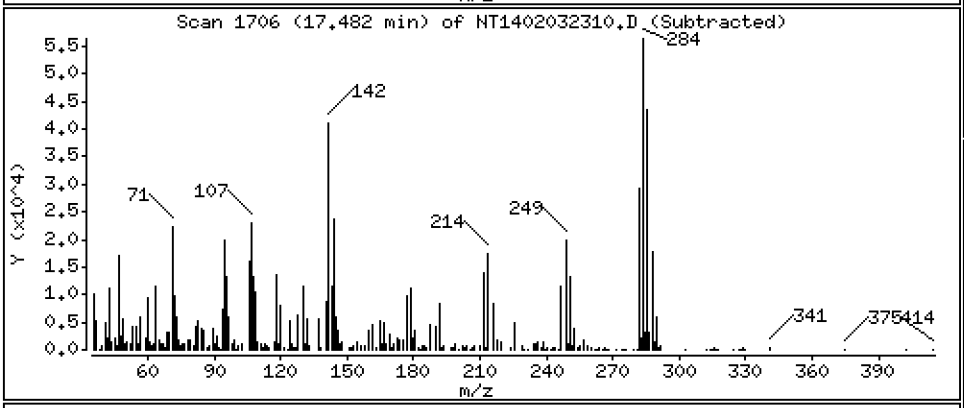
Column phase: ZB-5msi

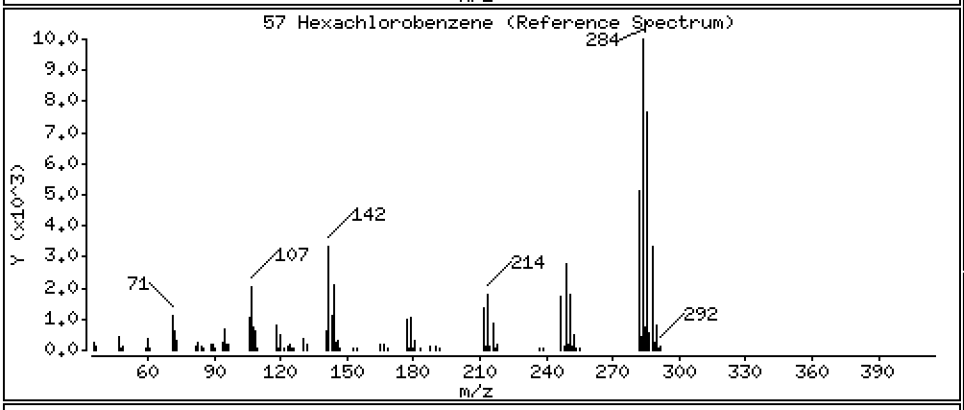
Column diameter: 0.25

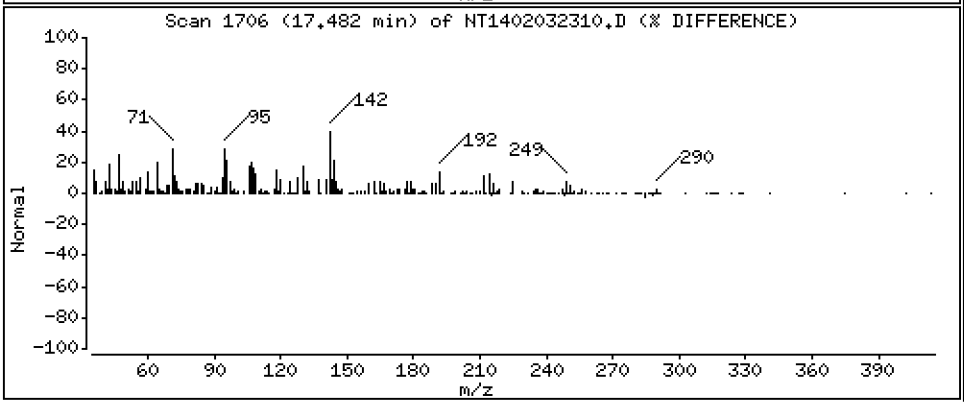
57 Hexachlorobenzene

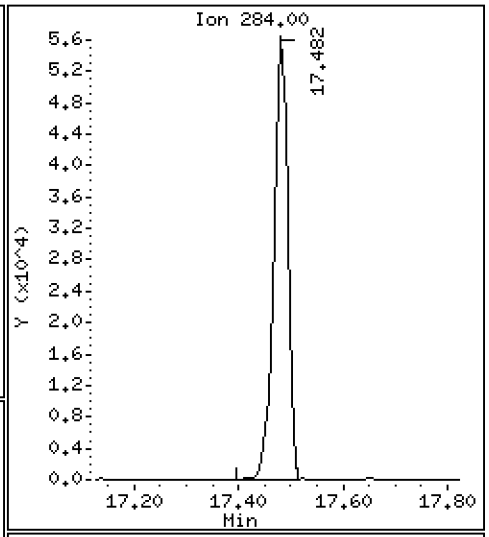
Concentration: 4.010 ug/mL

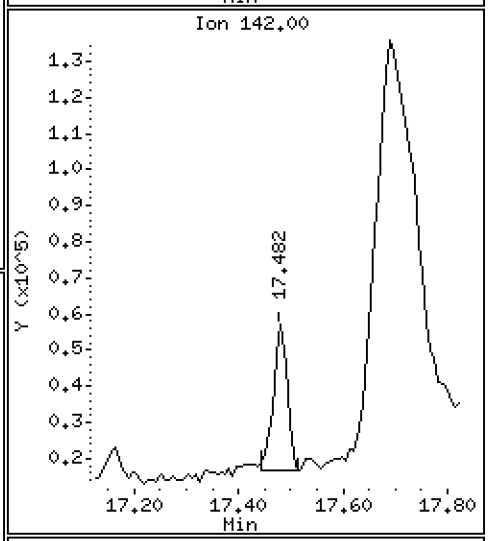


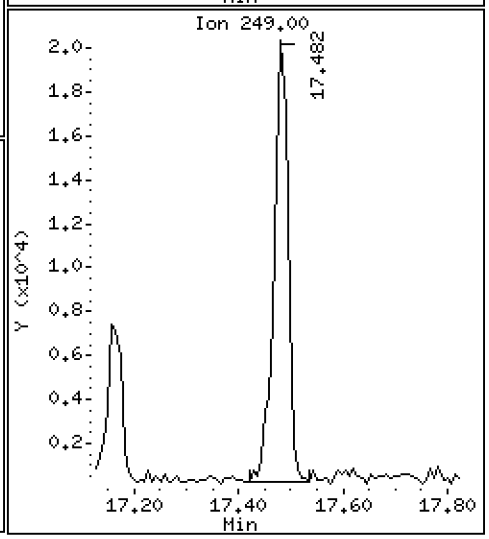












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

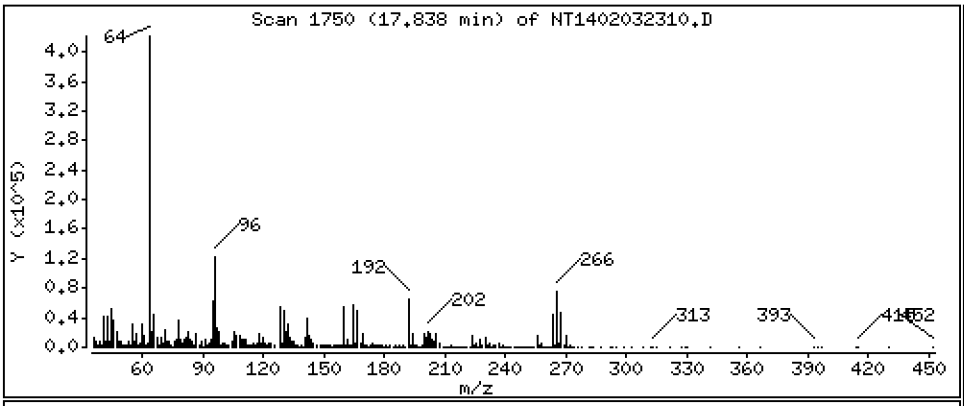
Operator: DSD

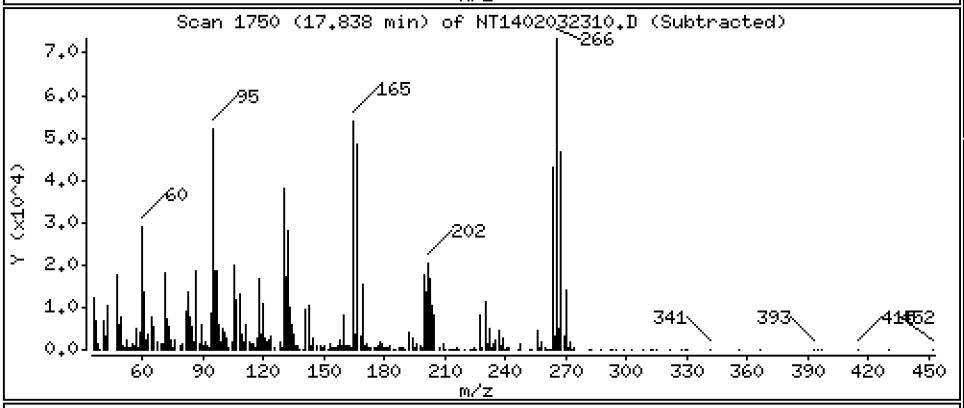
Column phase: ZB-5msi

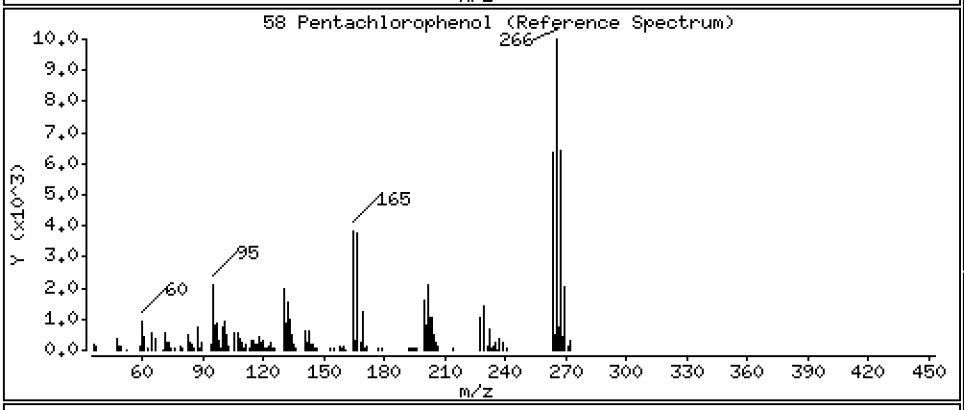
Column diameter: 0.25

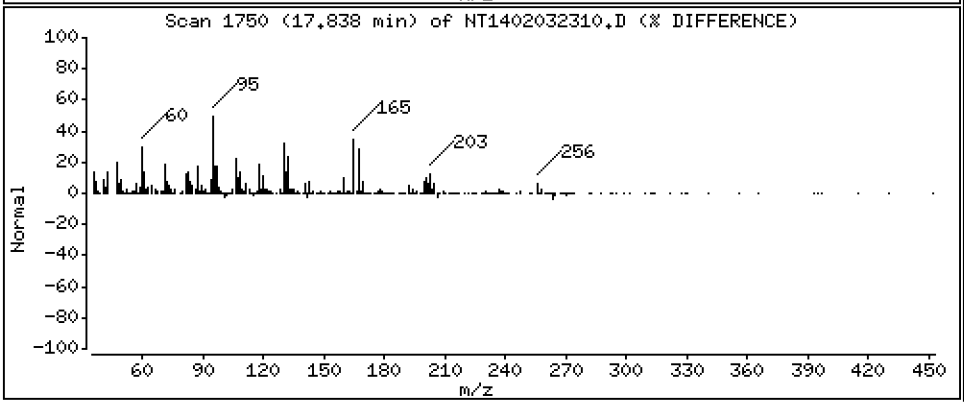
58 Pentachlorophenol

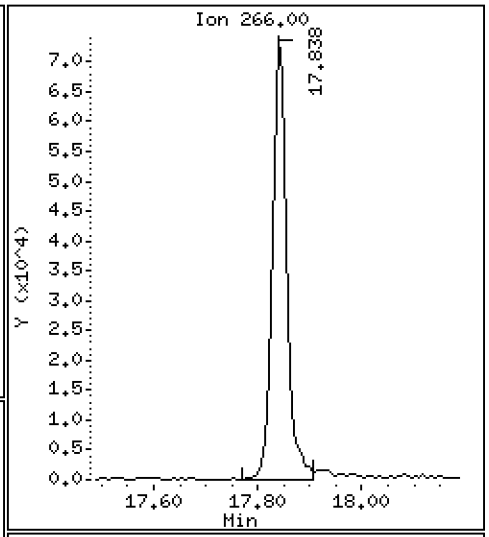
Concentration: 8.335 ug/mL

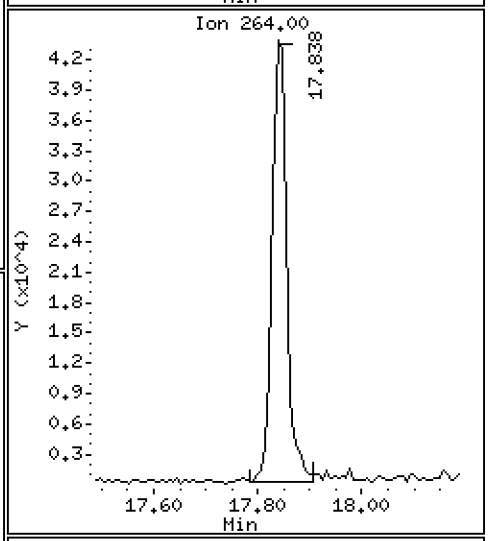


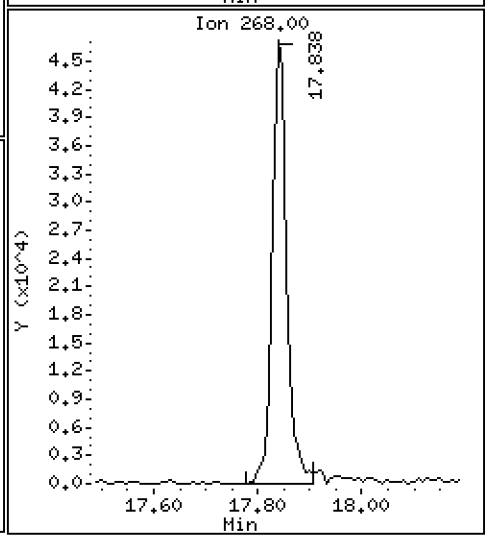












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

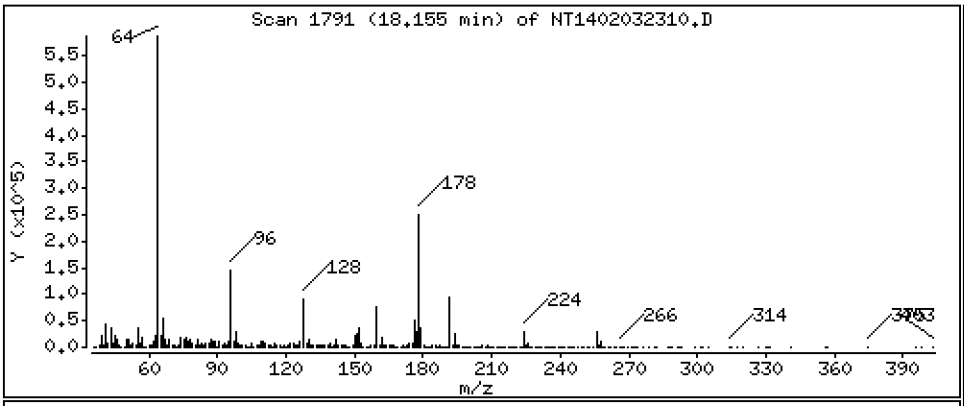
Operator: DSD

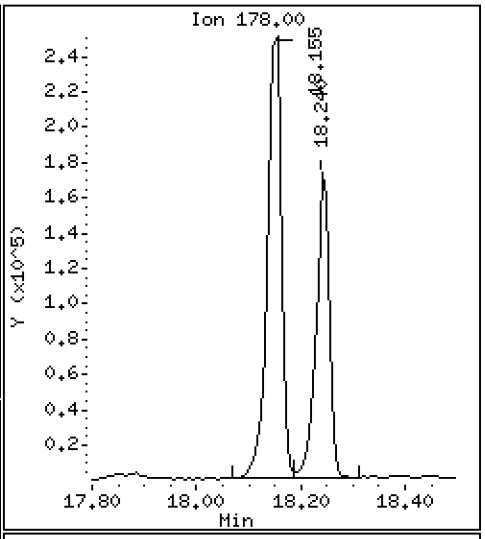
Column phase: ZB-5msi

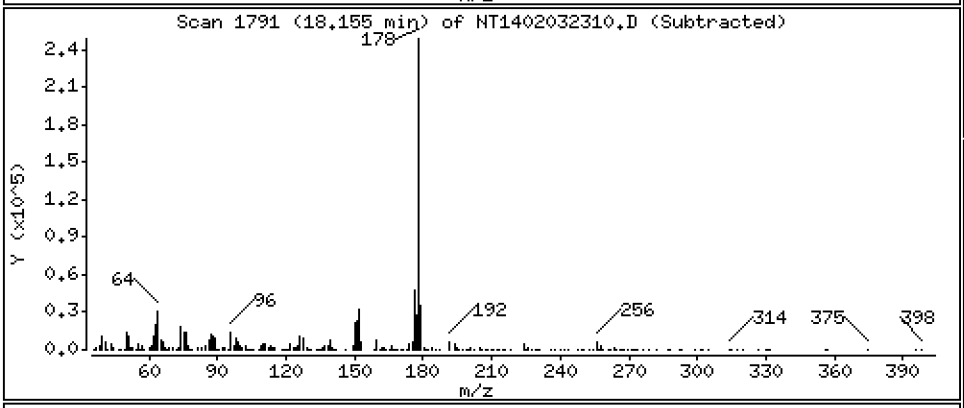
Column diameter: 0.25

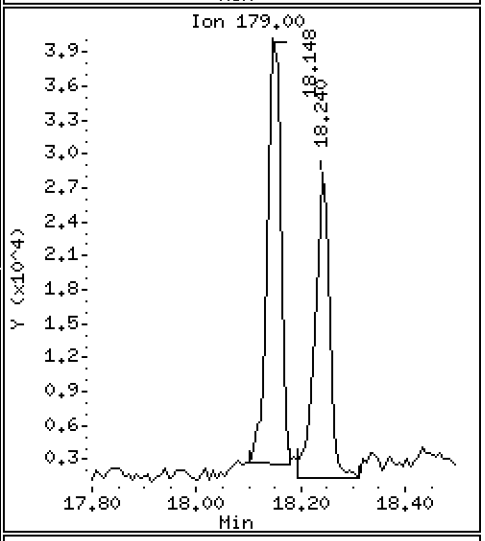
60 Phenanthrene

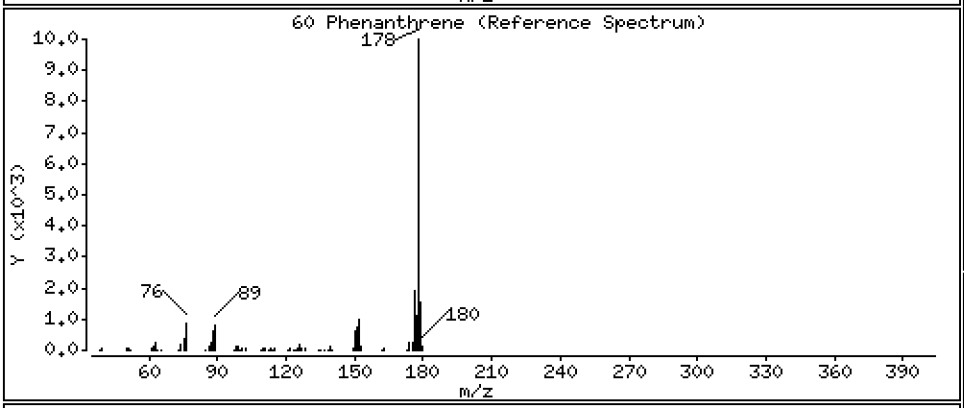
Concentration: 5.218 ug/mL

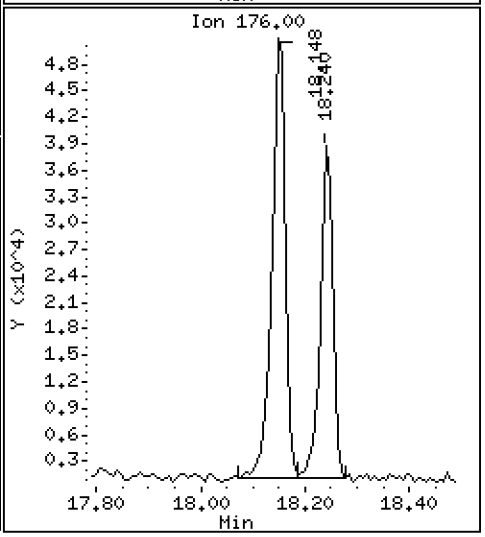


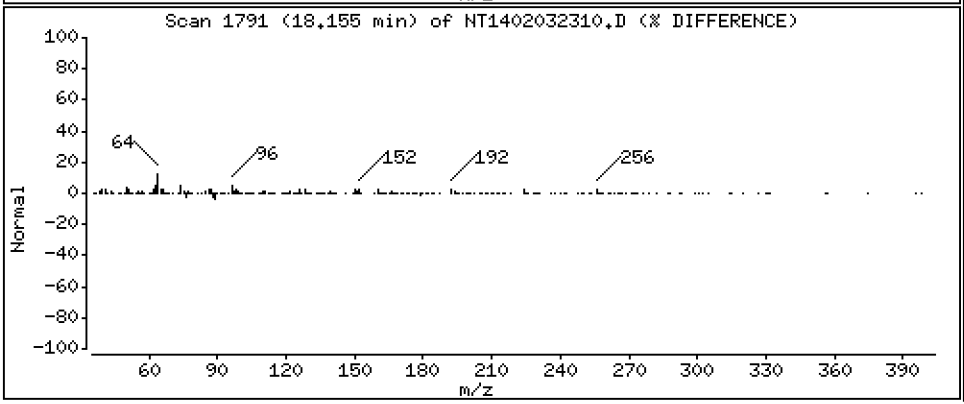












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

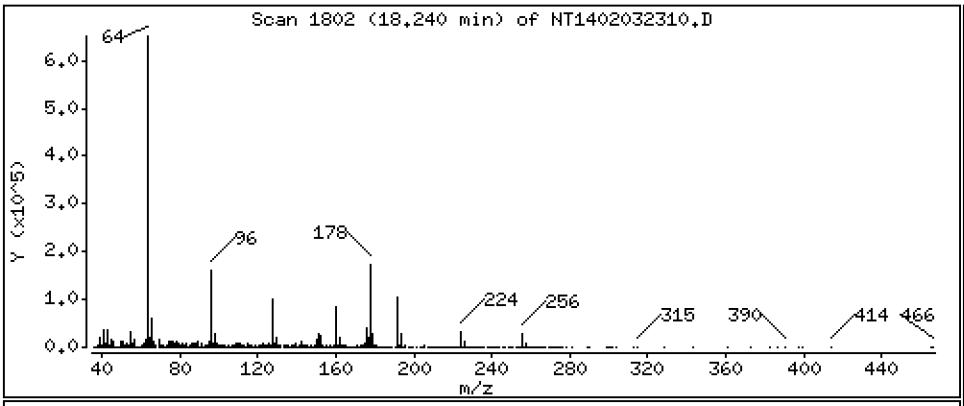
Operator: DSD

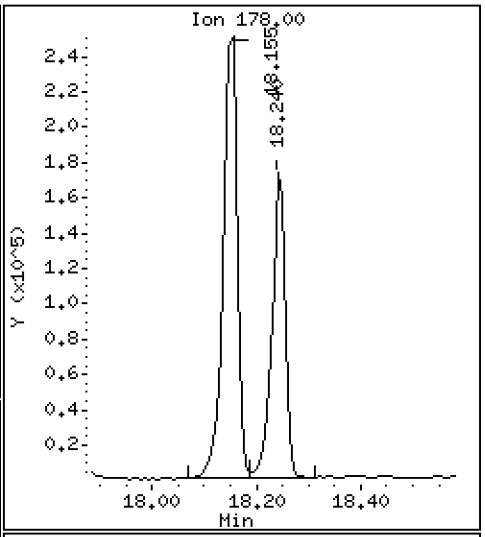
Column phase: ZB-5msi

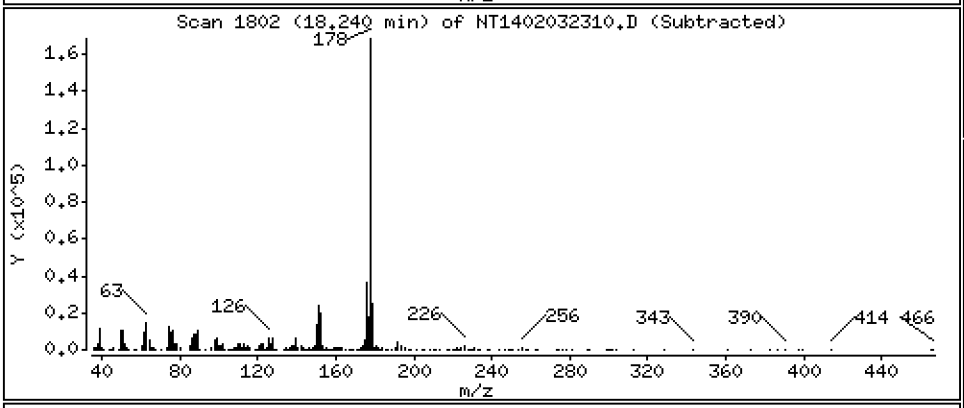
Column diameter: 0.25

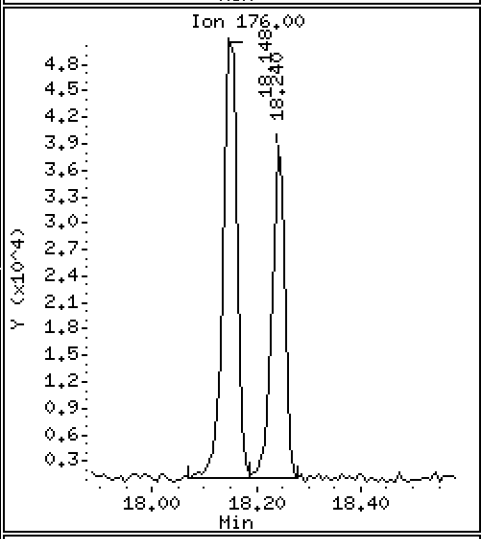
61 Anthracene

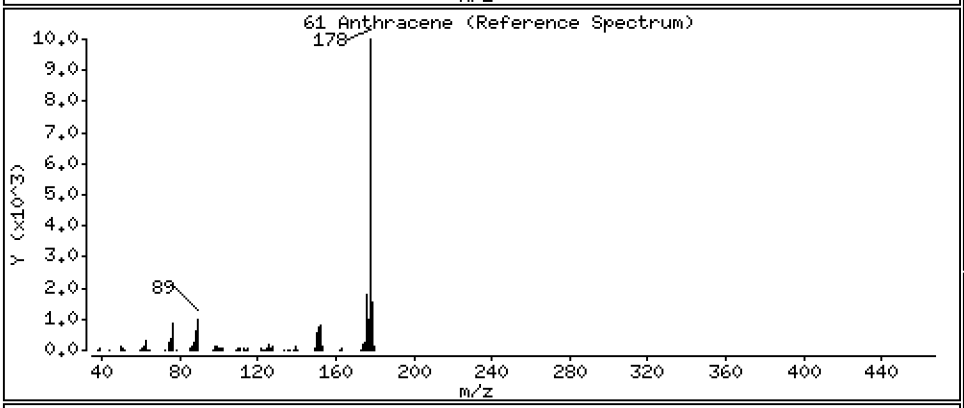
Concentration: 3.745 ug/mL

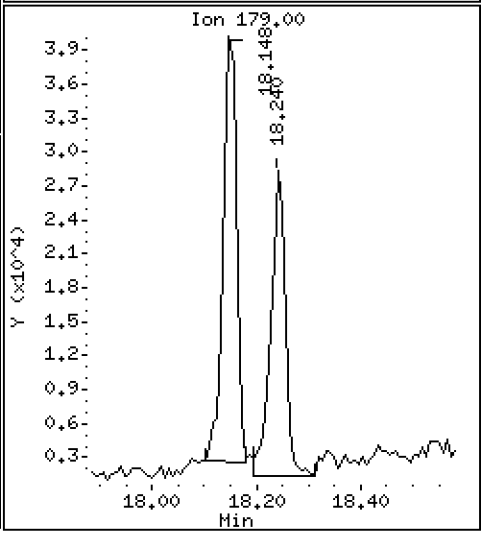


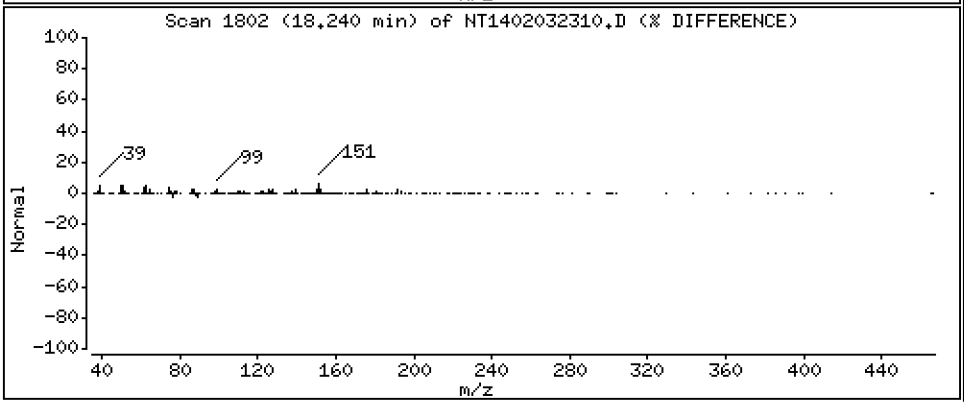












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

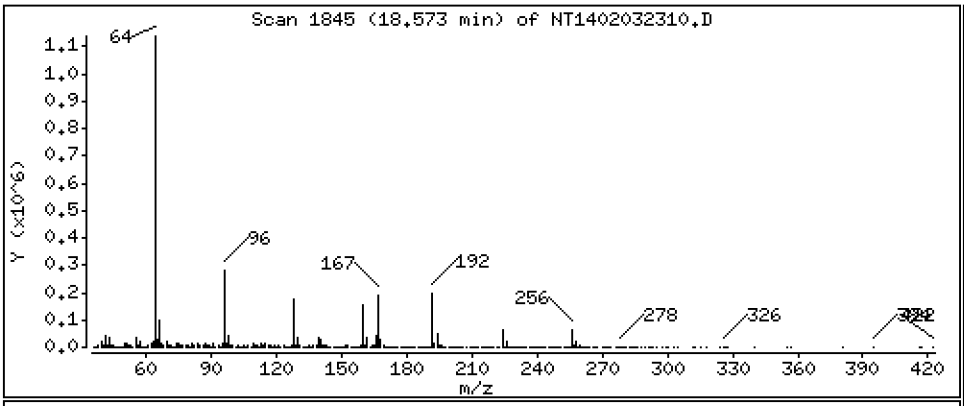
Operator: DSD

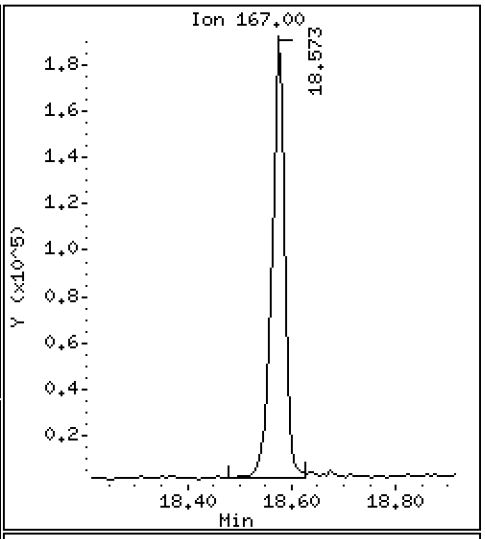
Column phase: ZB-5msi

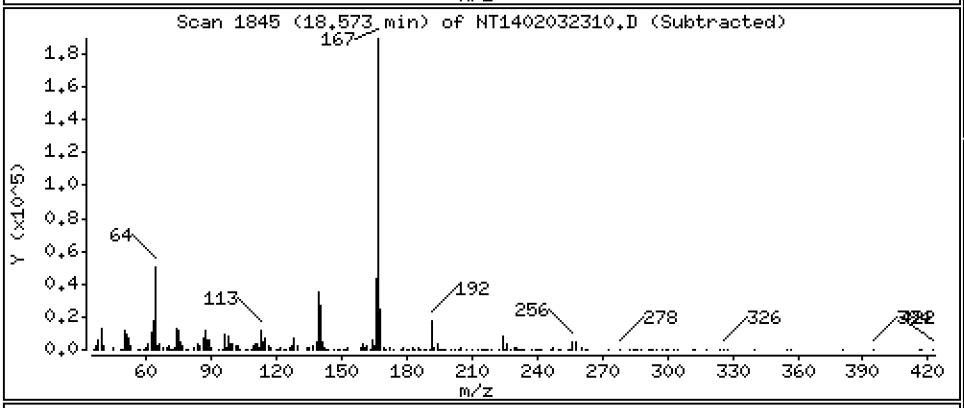
Column diameter: 0.25

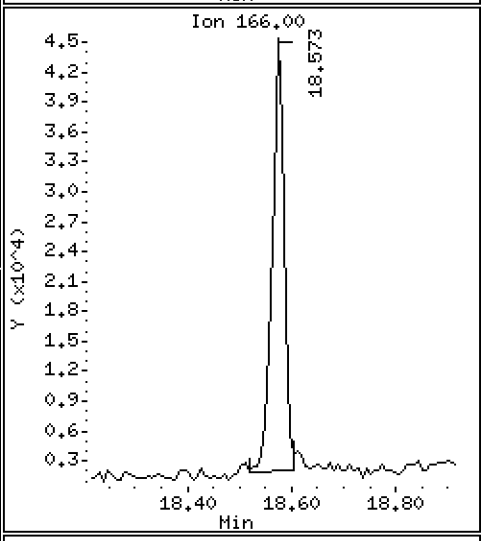
62 Carbazole

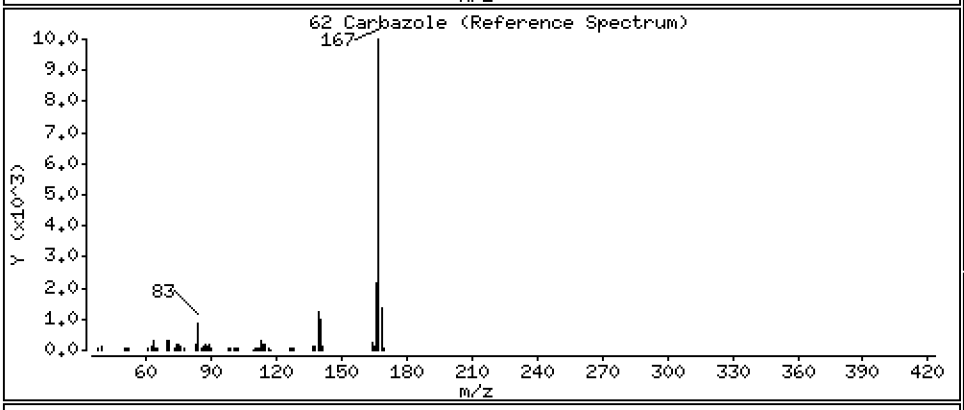
Concentration: 4.272 ug/mL

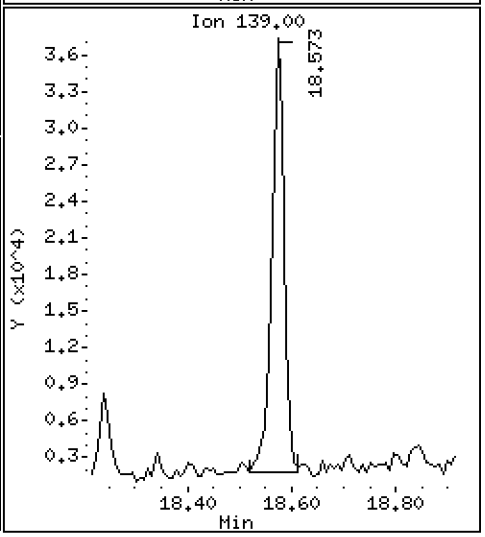


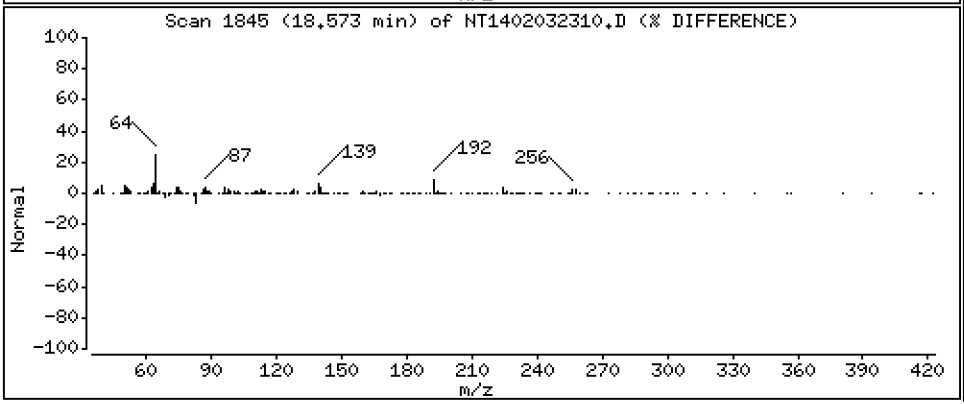












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

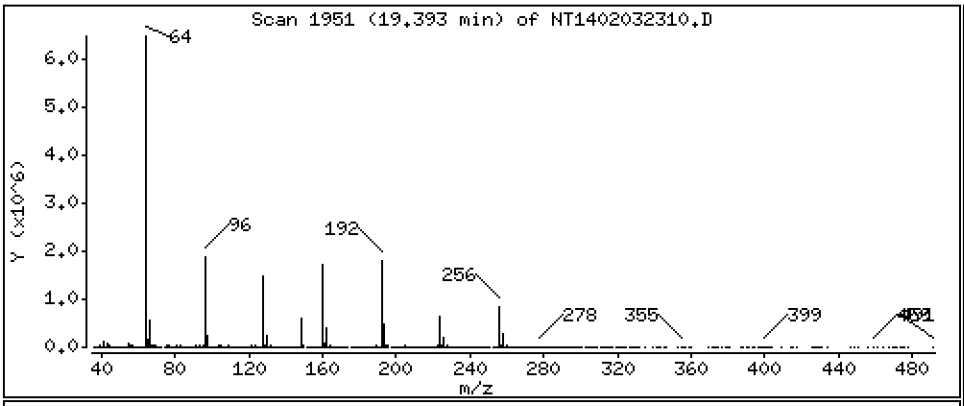
Operator: DSD

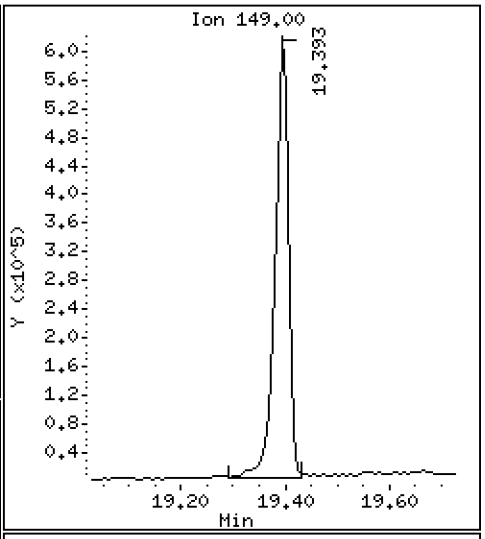
Column phase: ZB-5msi

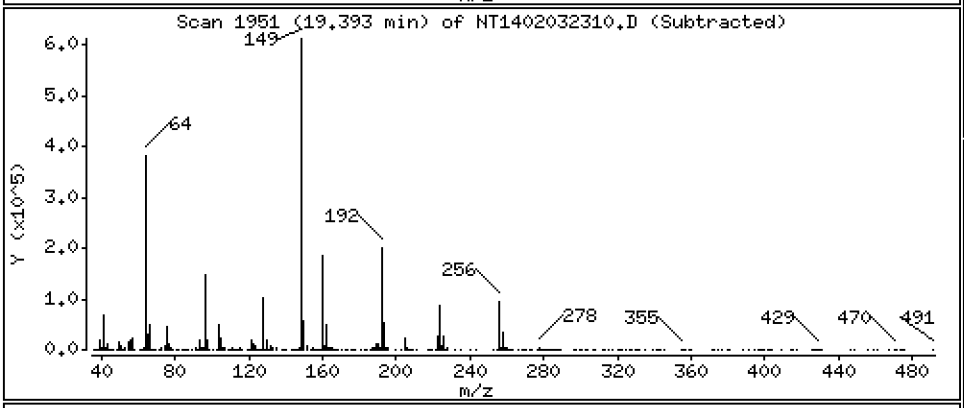
Column diameter: 0.25

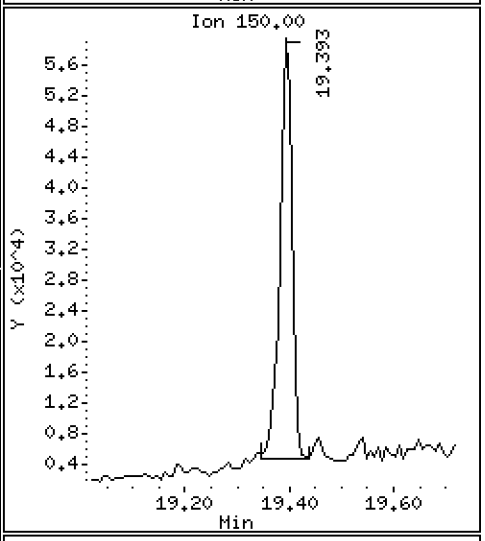
63 Di-n-butylphthalate

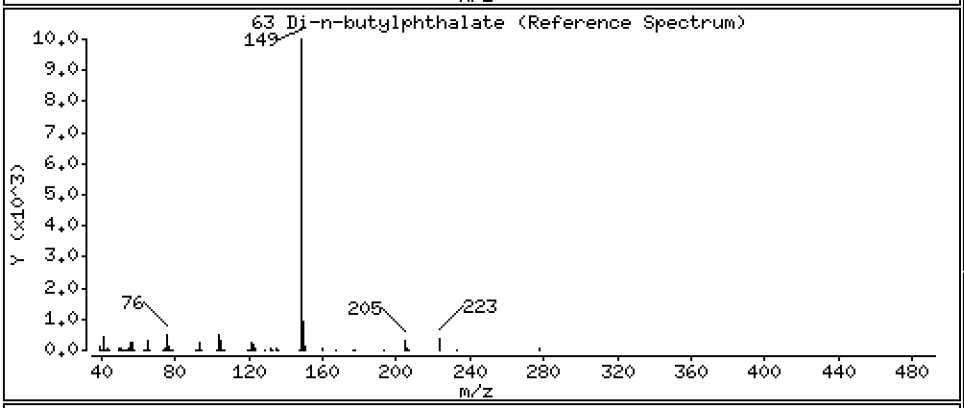
Concentration: 9.249 ug/mL

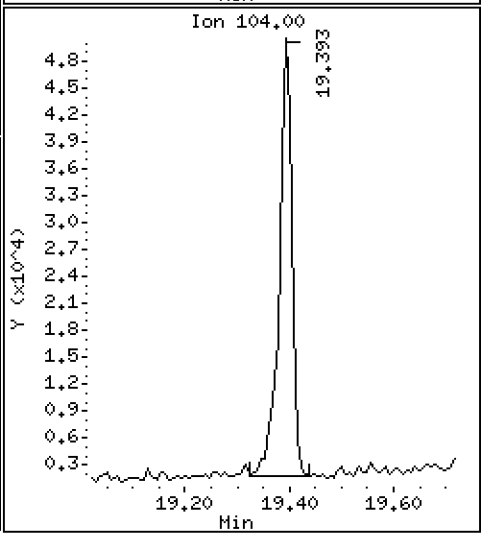


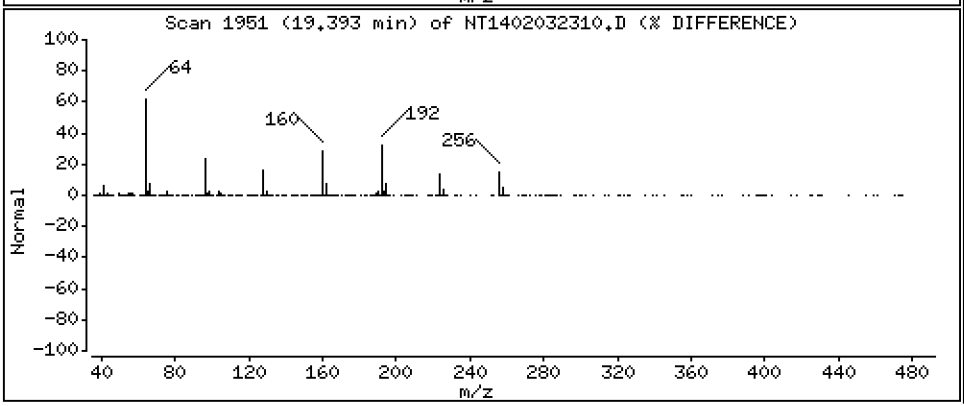












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

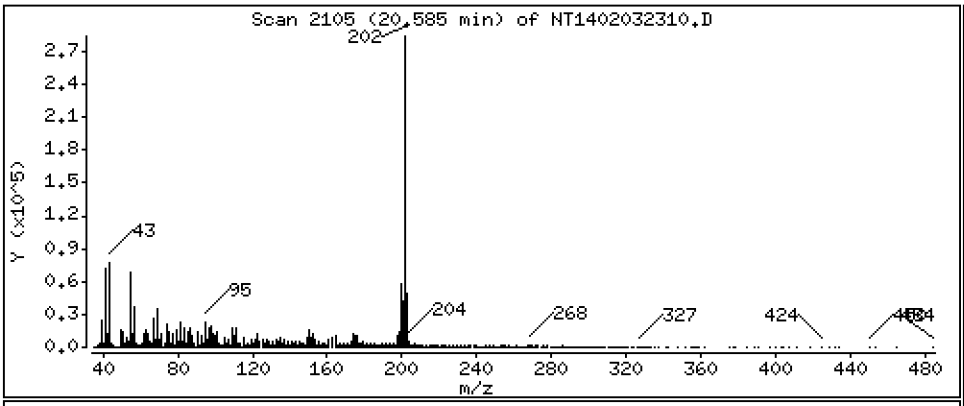
Operator: DSD

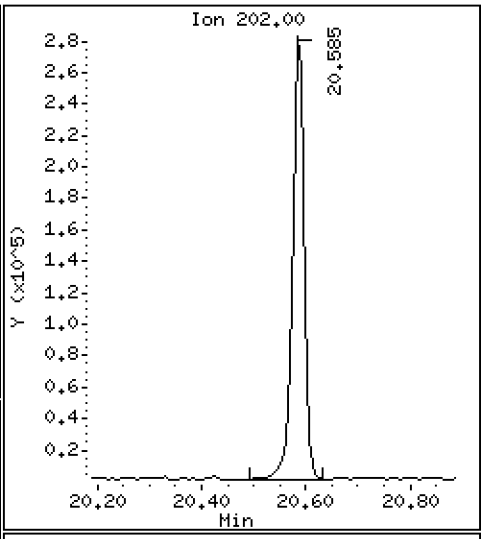
Column phase: ZB-5msi

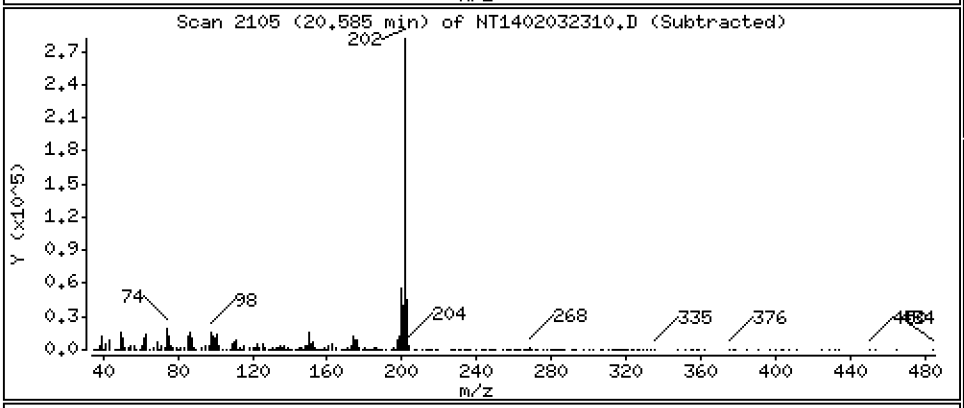
Column diameter: 0.25

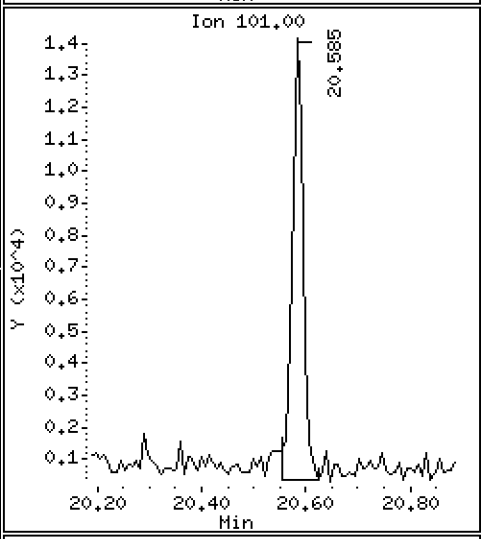
64 Fluoranthene

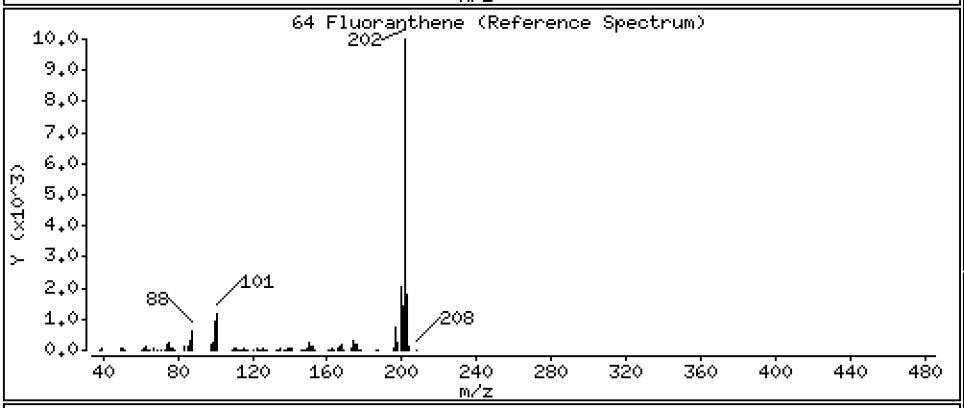
Concentration: 8.294 ug/mL

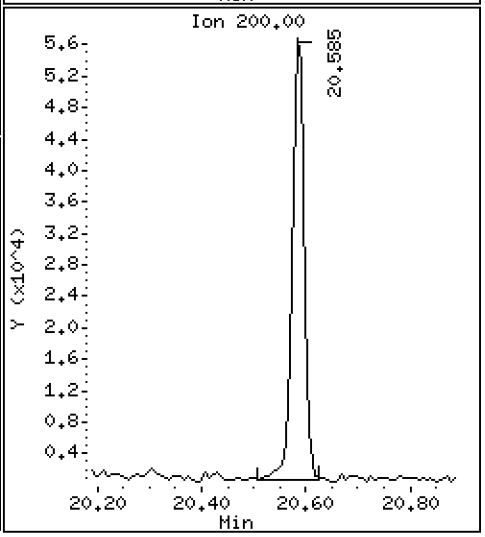


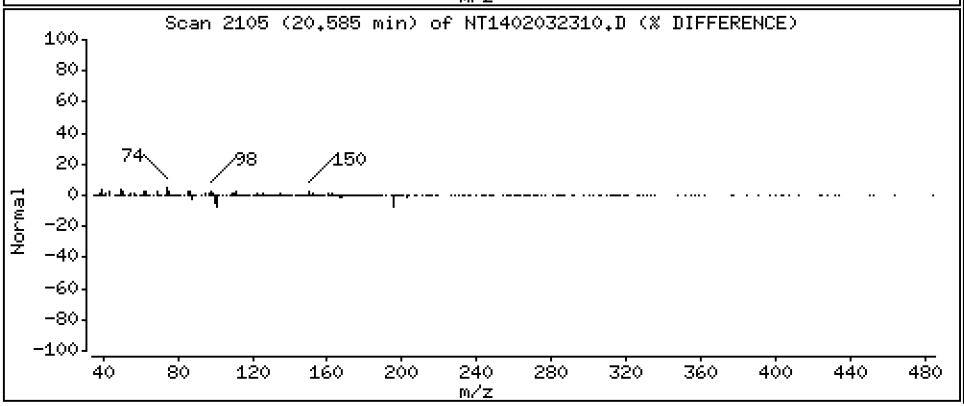












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

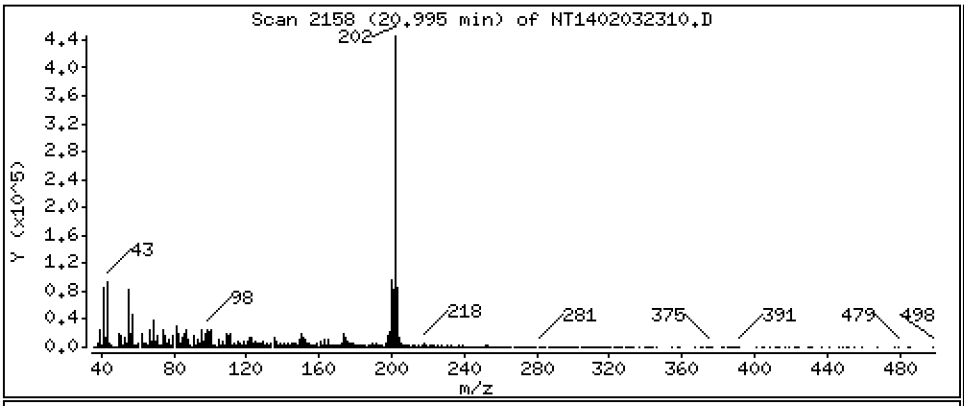
Operator: DSD

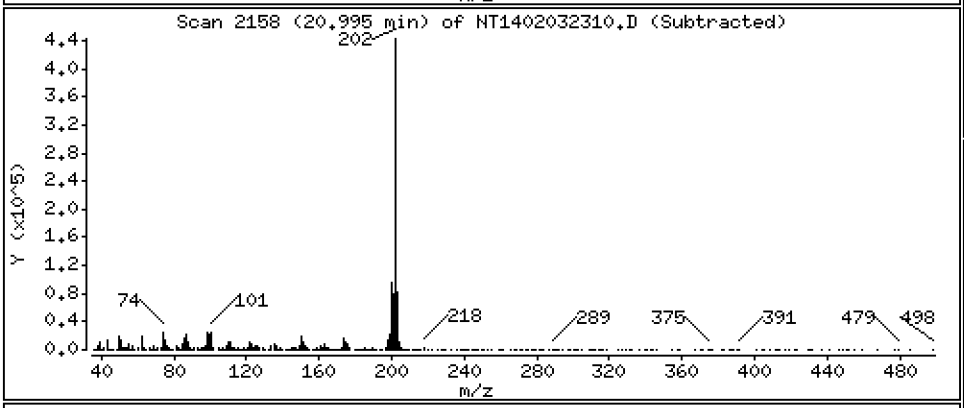
Column phase: ZB-5msi

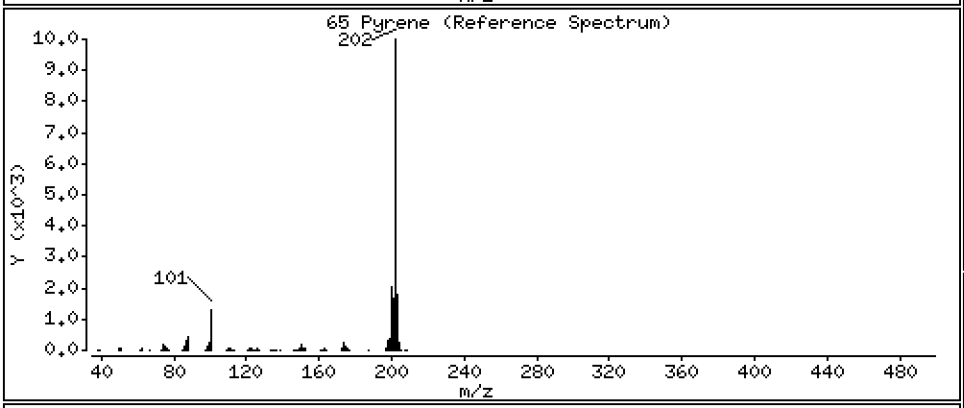
Column diameter: 0.25

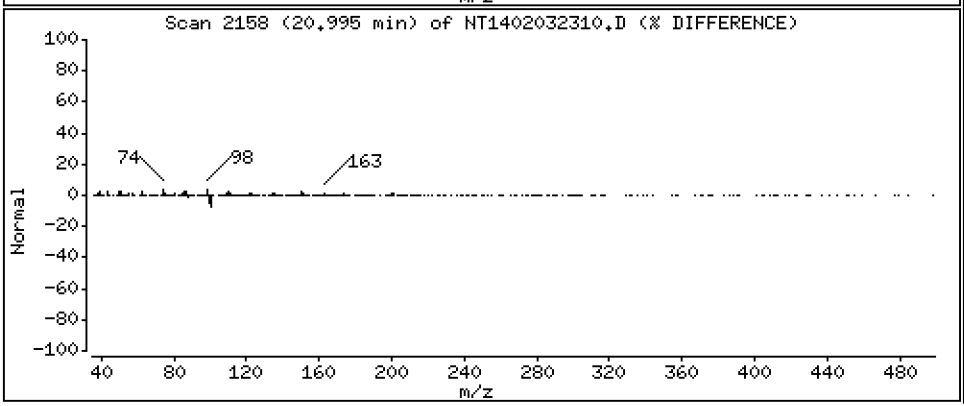
65 Pyrene

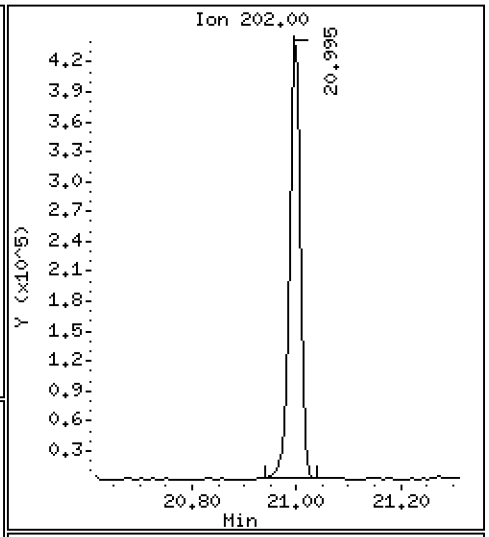
Concentration: 11.63 ug/mL

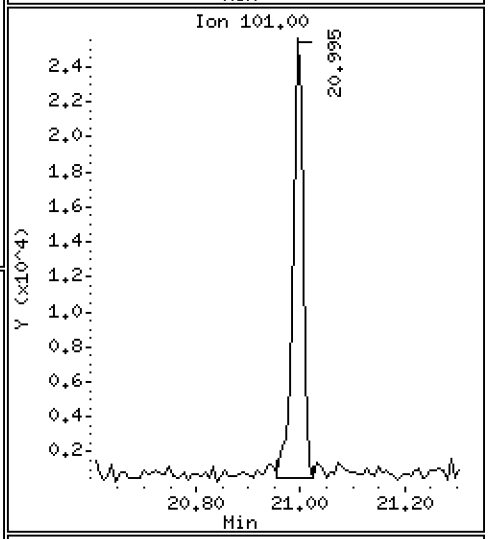


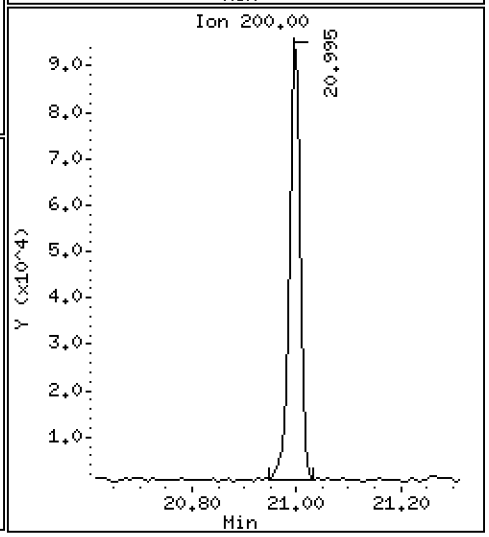












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

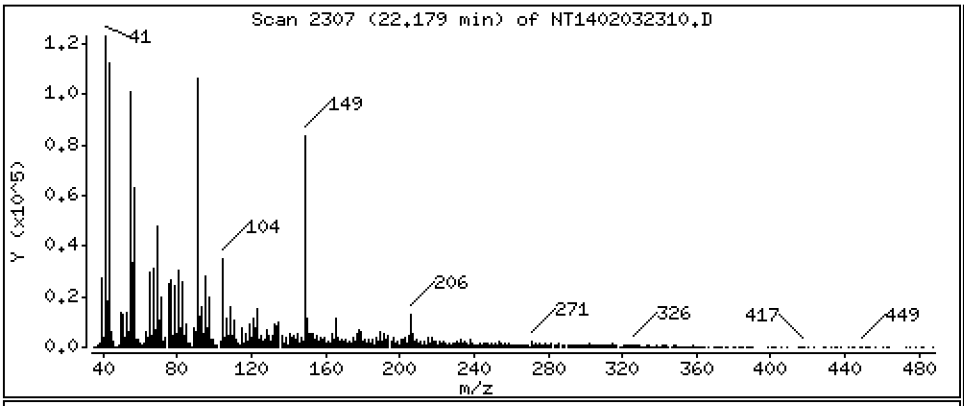
Operator: DSD

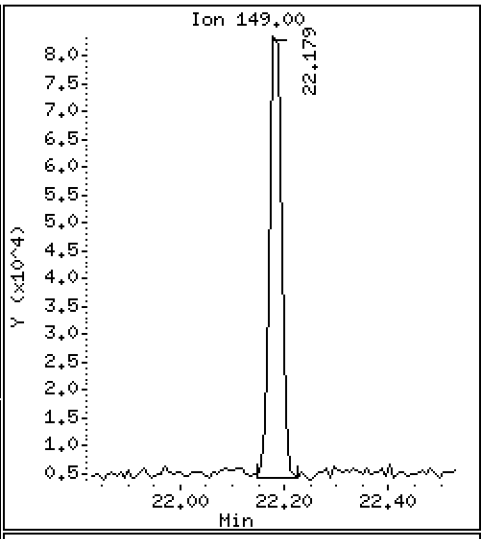
Column phase: ZB-5msi

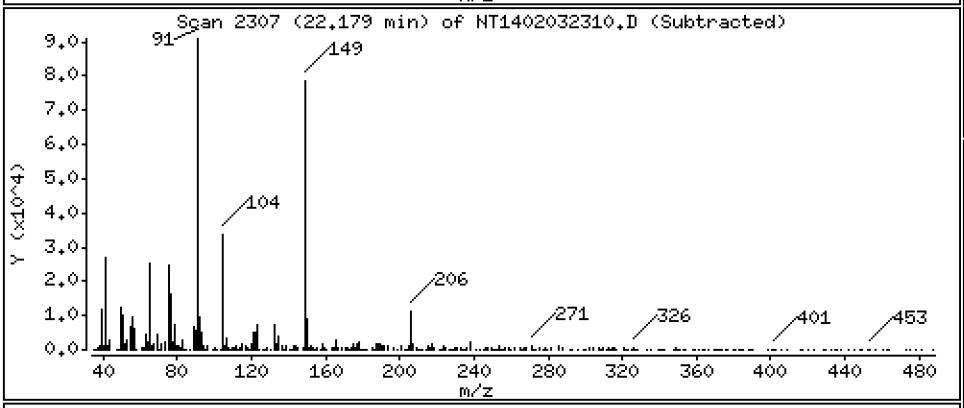
Column diameter: 0.25

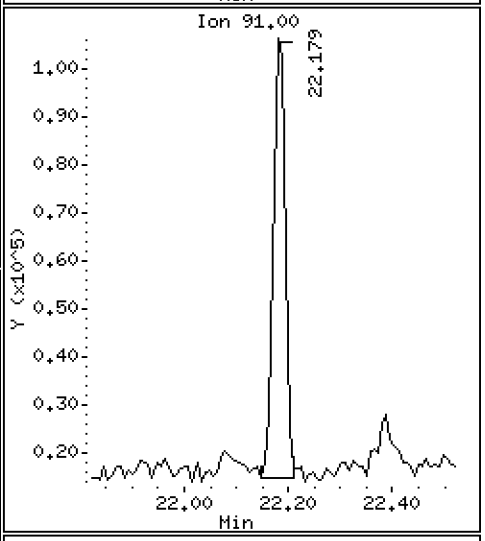
67 Butylbenzylphthalate

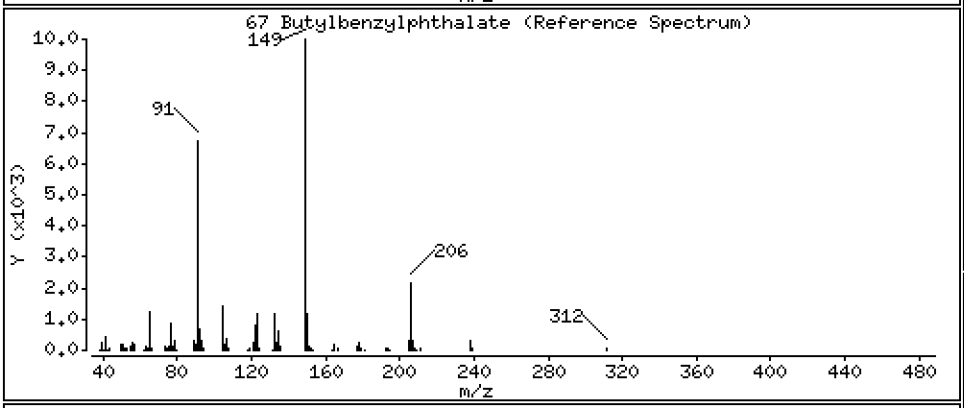
Concentration: 4.276 ug/mL

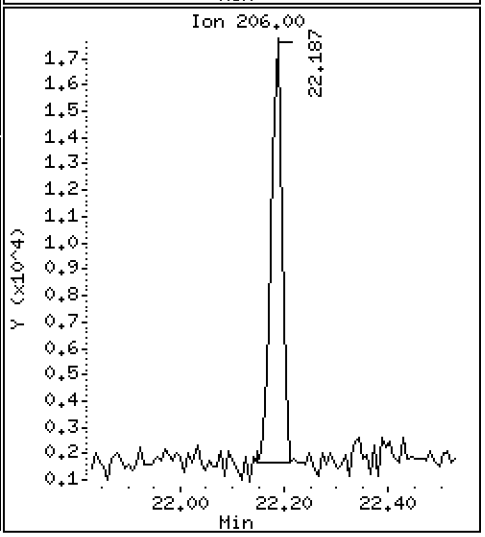


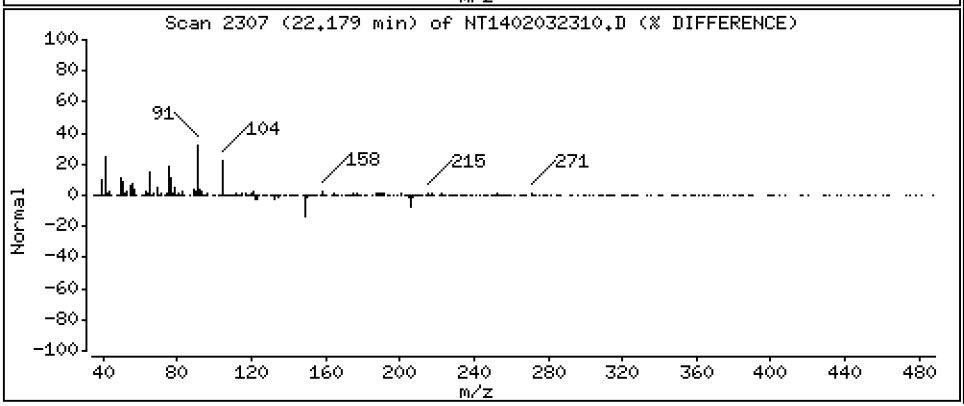












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

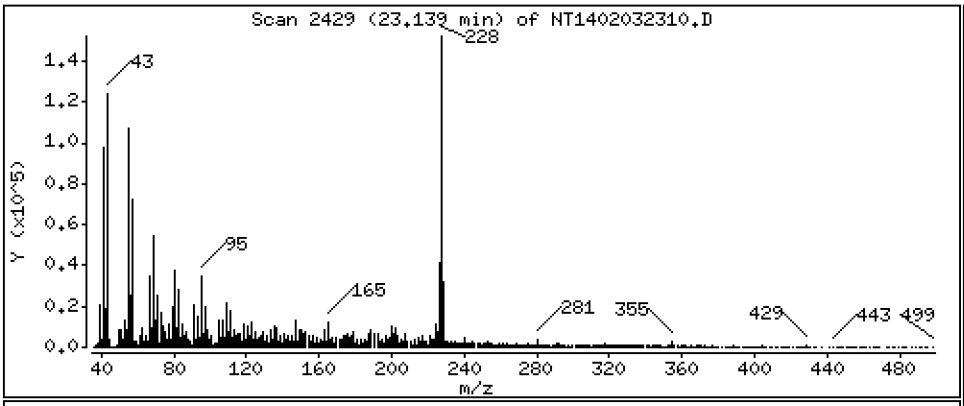
Operator: DSD

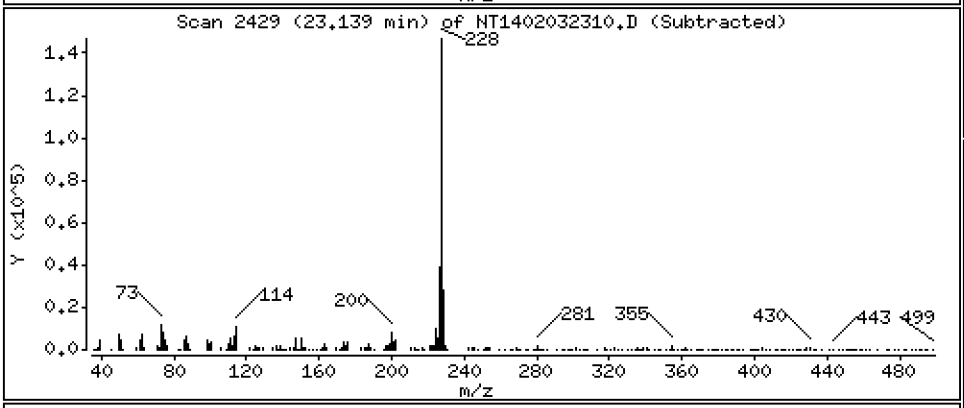
Column phase: ZB-5msi

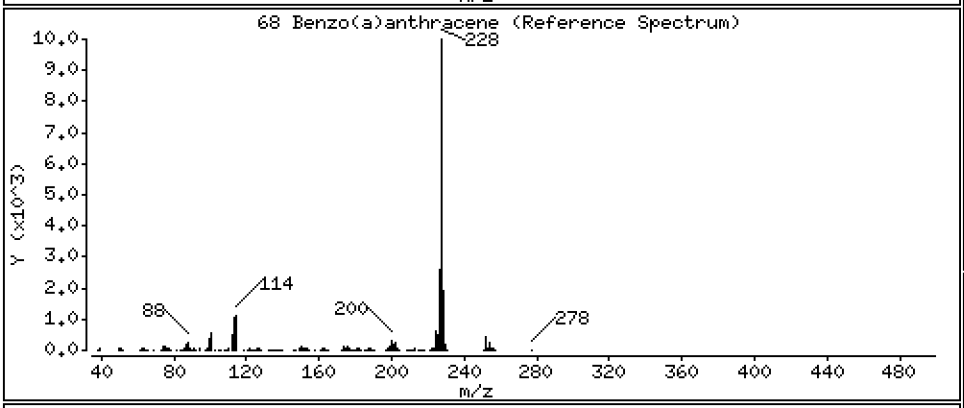
Column diameter: 0.25

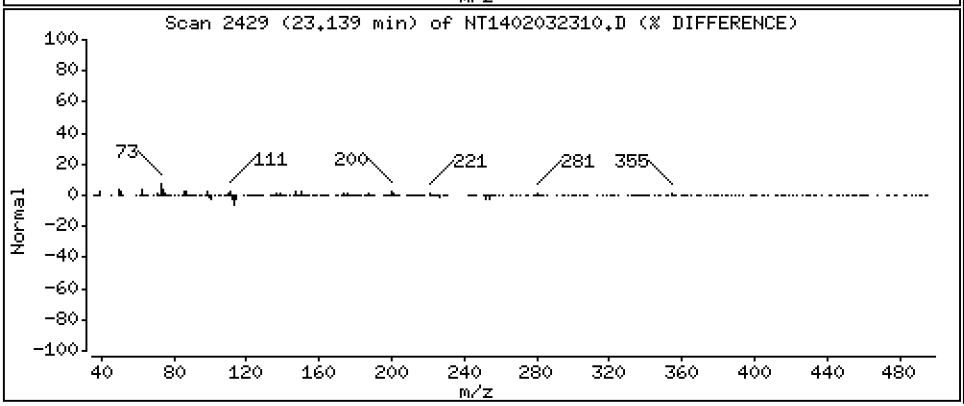
68 Benzo(a)anthracene

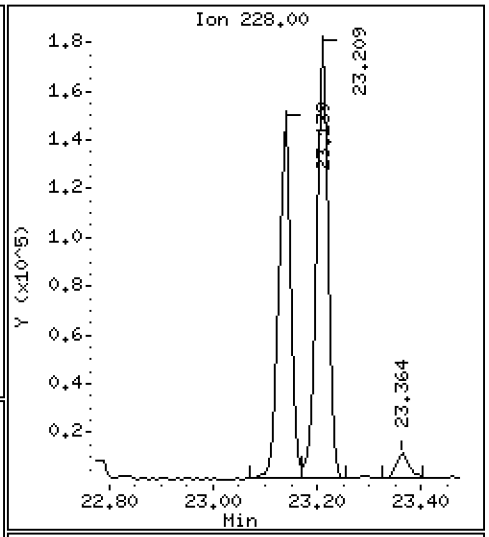
Concentration: 4.837 ug/mL

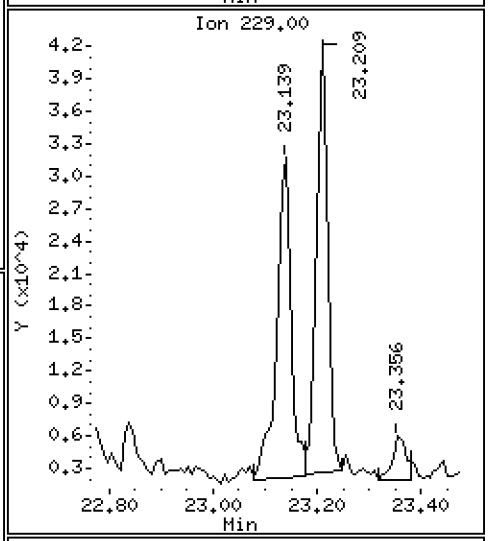


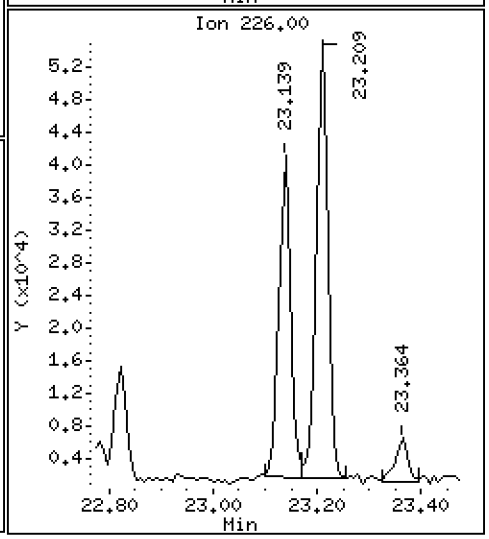












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

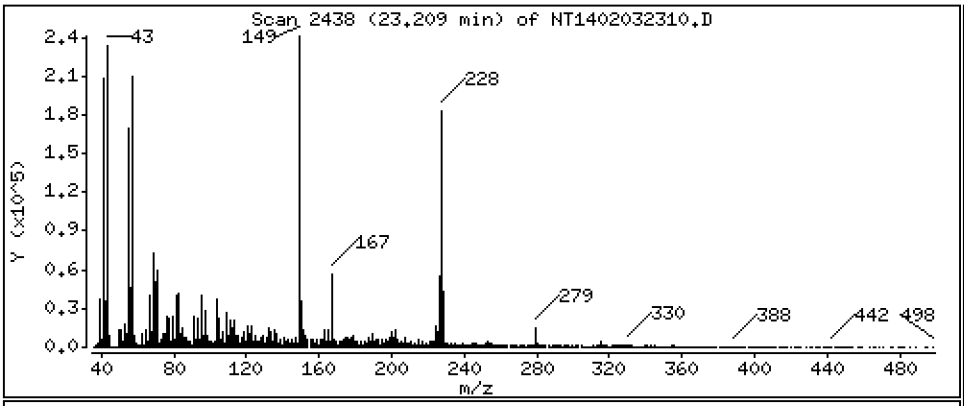
Operator: DSD

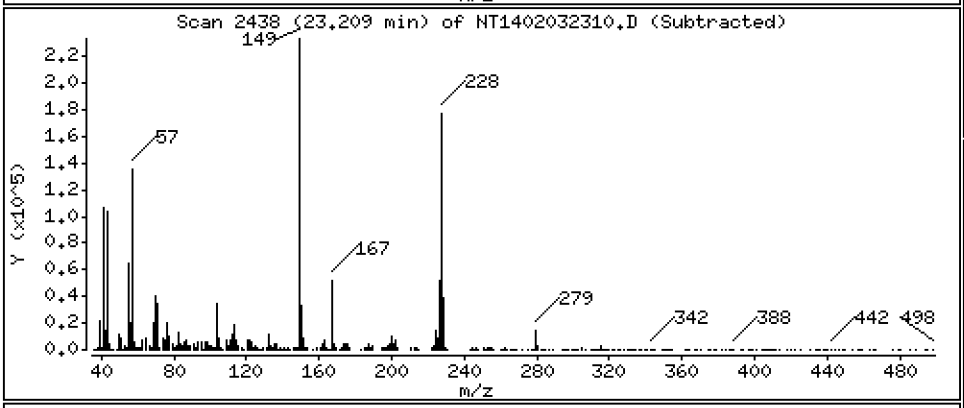
Column phase: ZB-5msi

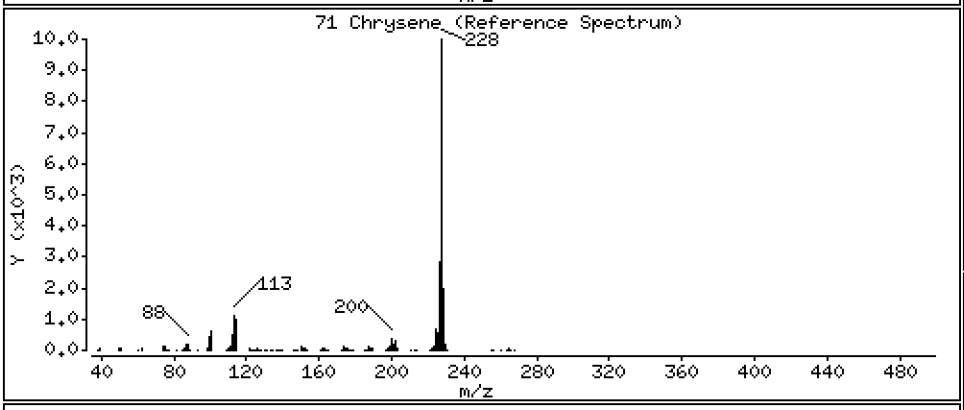
Column diameter: 0.25

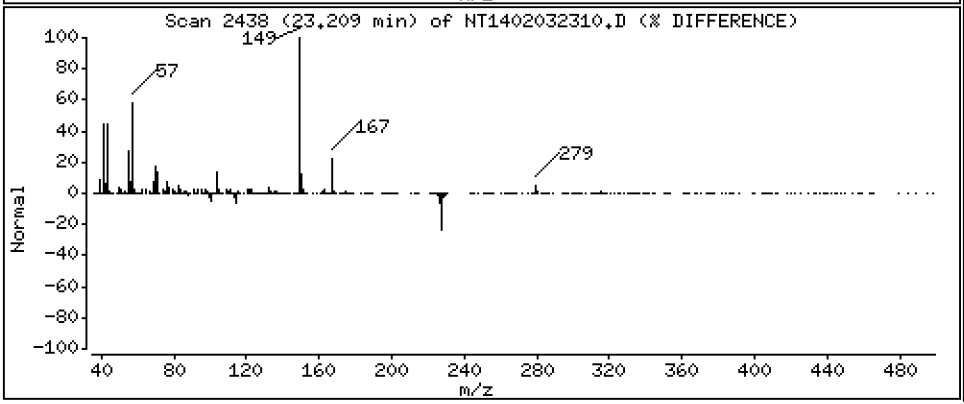
71 Chrysene

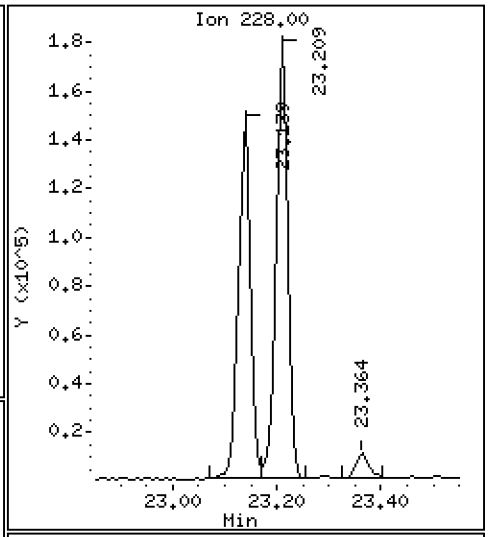
Concentration: 5.419 ug/mL

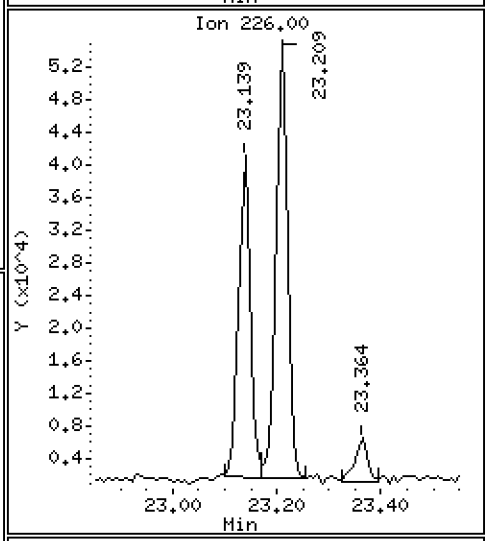


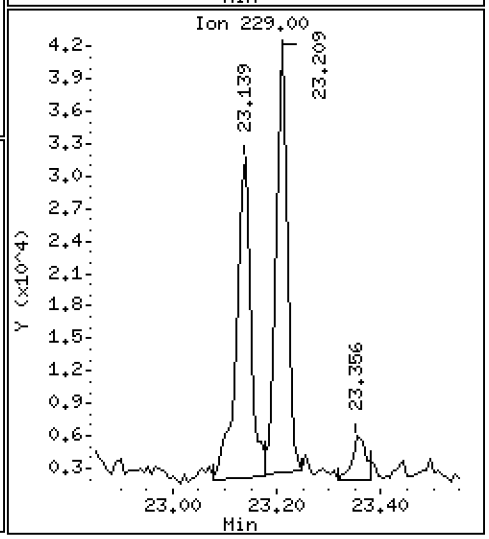












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

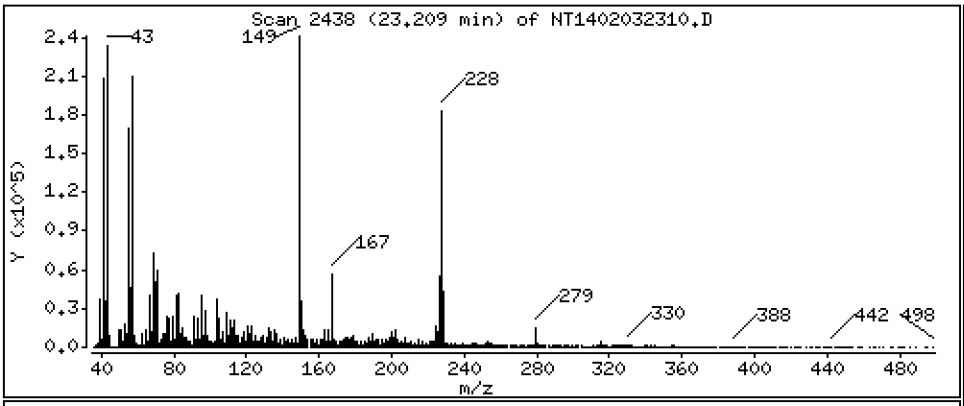
Operator: DSD

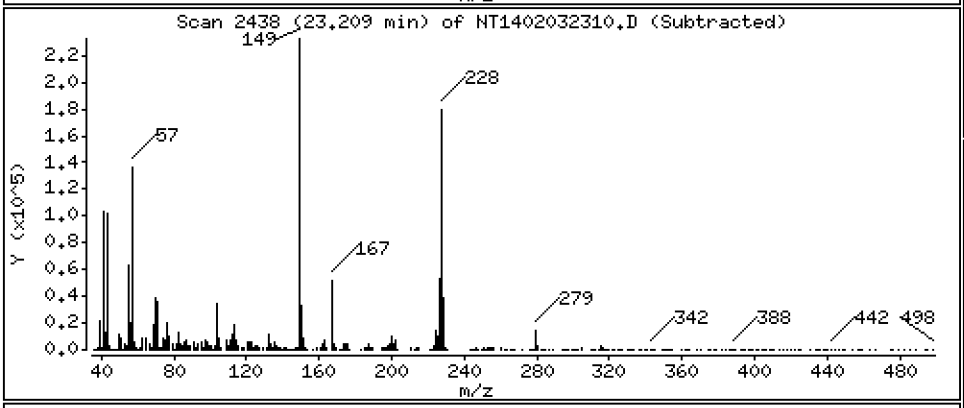
Column phase: ZB-5msi

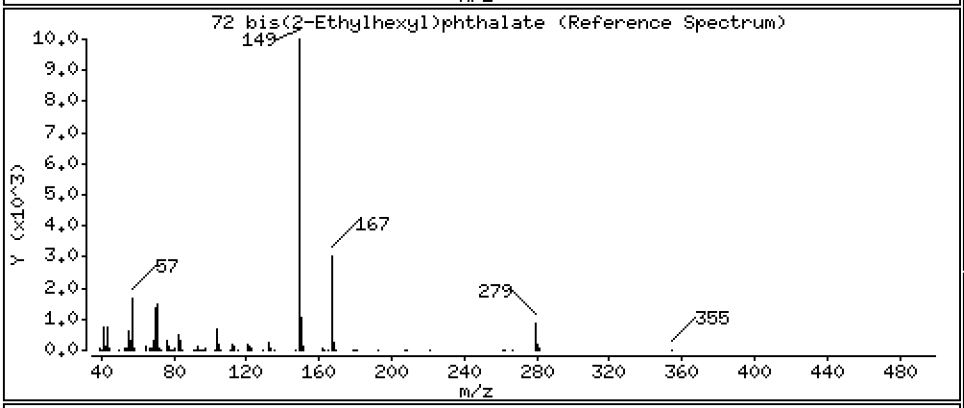
Column diameter: 0.25

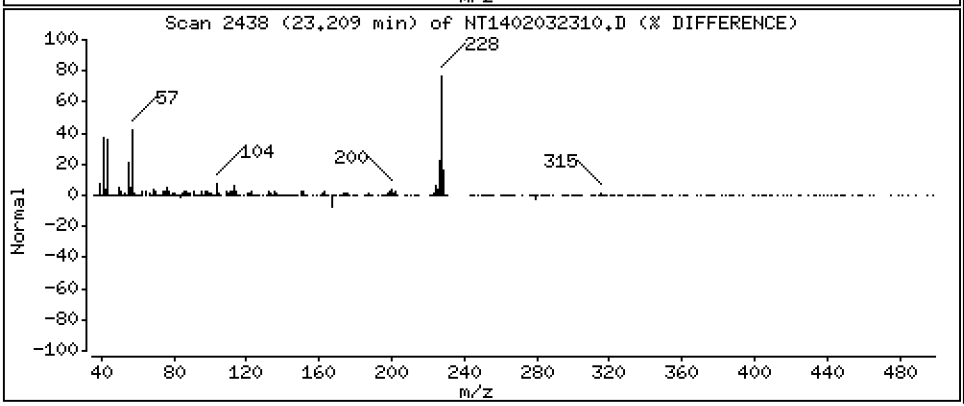
72 bis(2-Ethylhexyl)phthalate

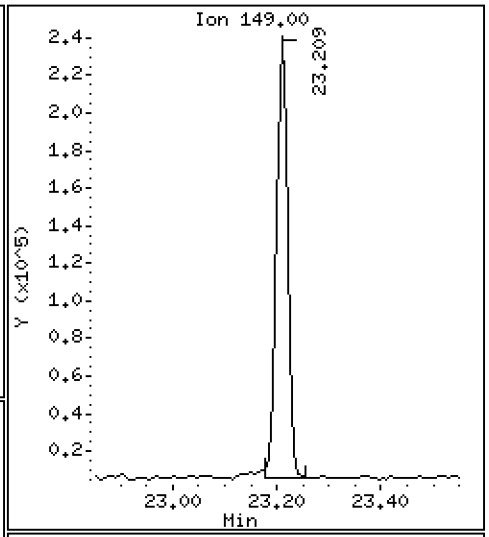
Concentration: 8.169 ug/mL

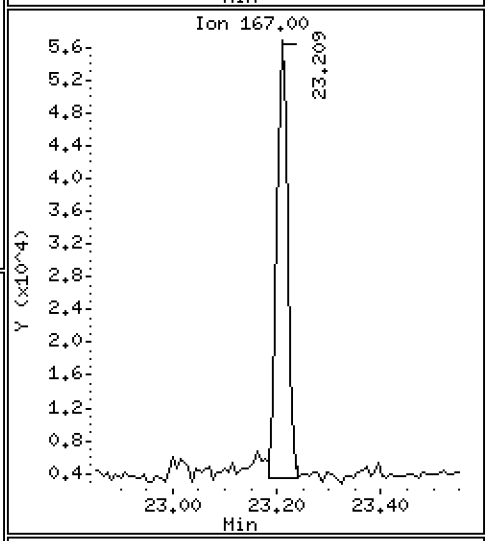


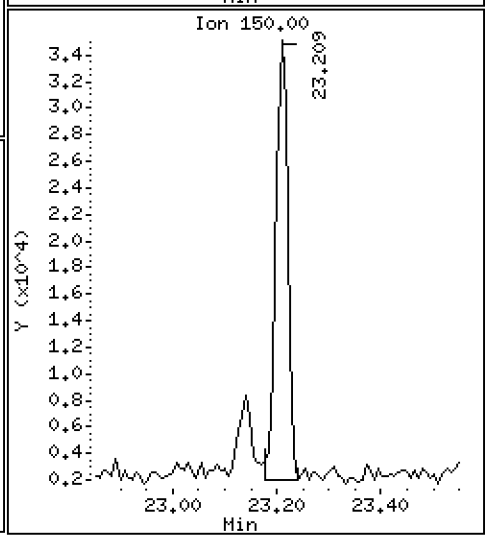












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

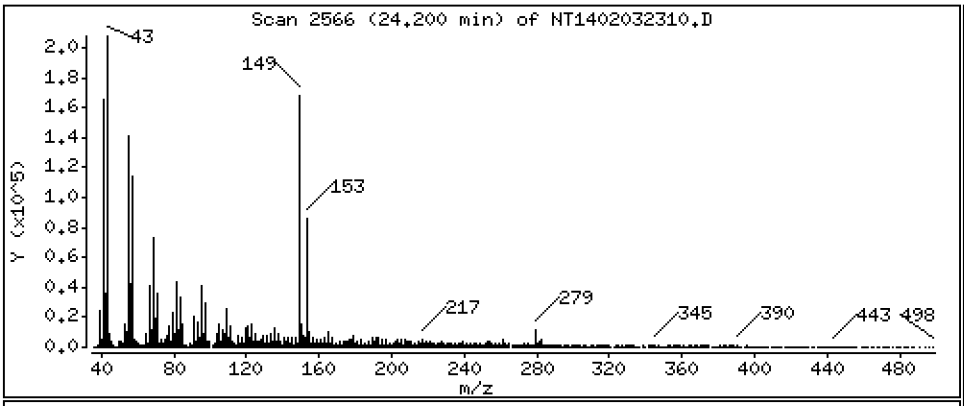
Operator: DSD

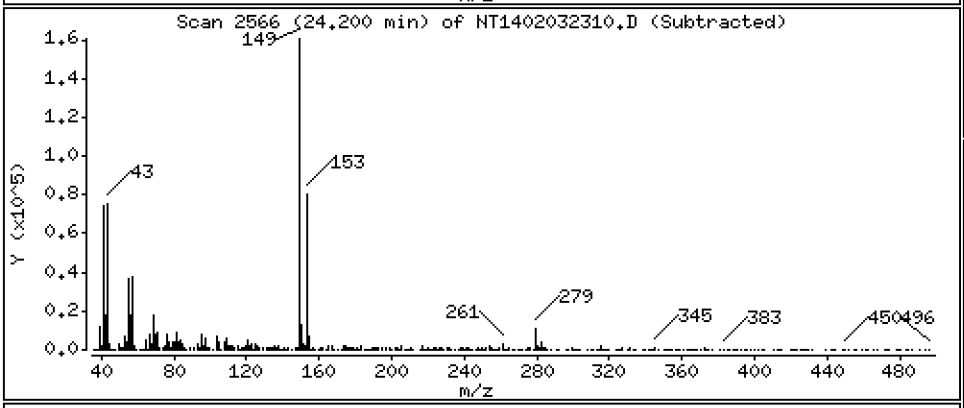
Column phase: ZB-5msi

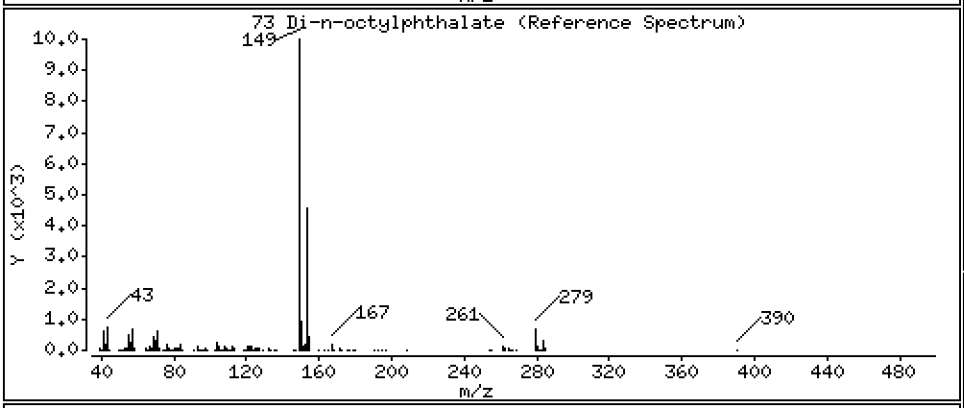
Column diameter: 0.25

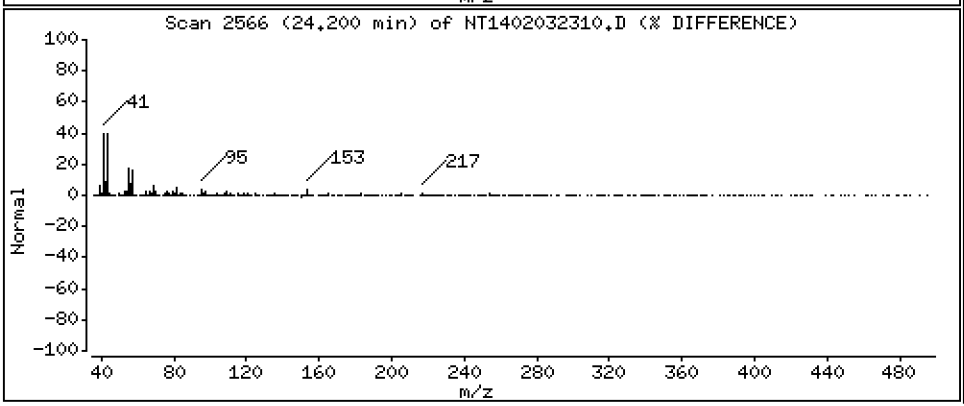
73 Di-n-octylphthalate

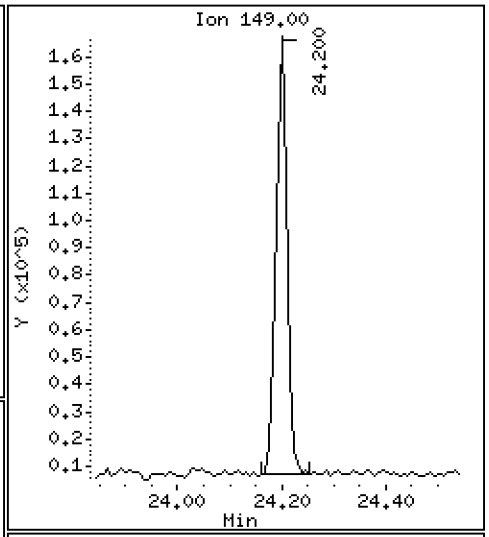
Concentration: 3.992 ug/mL

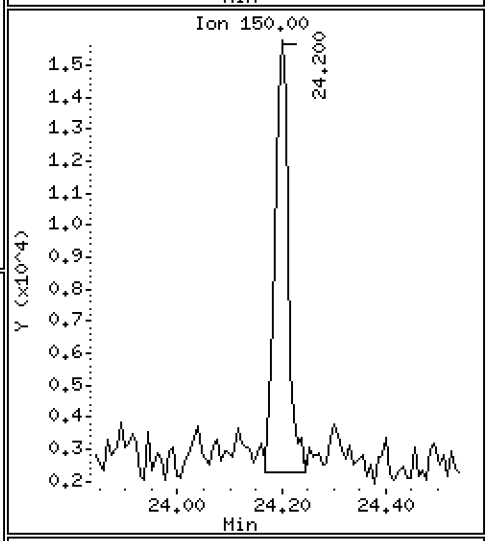


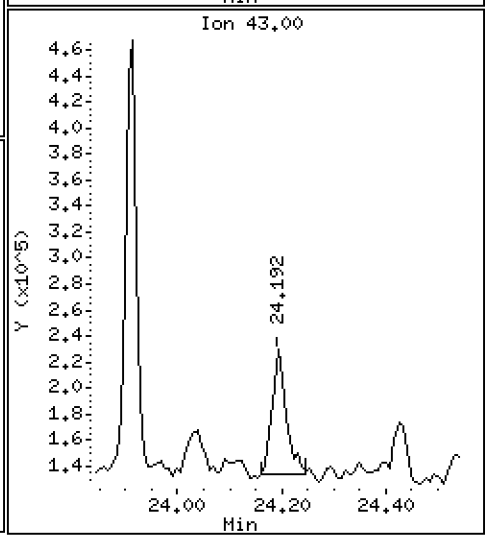












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

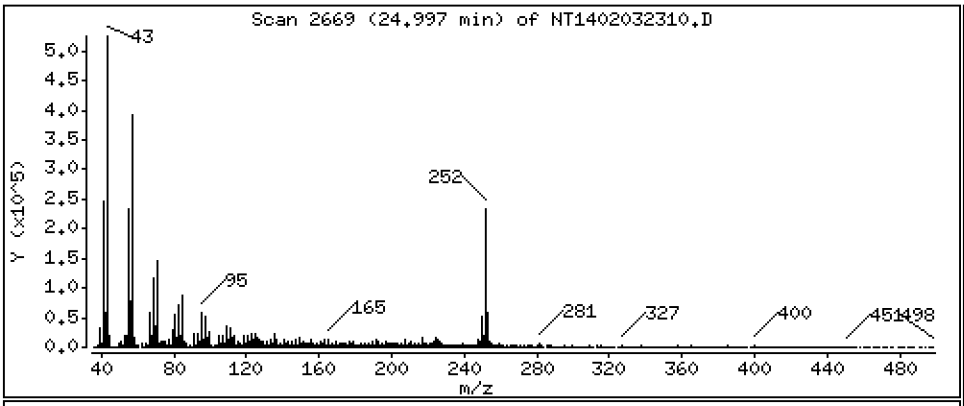
Operator: DSD

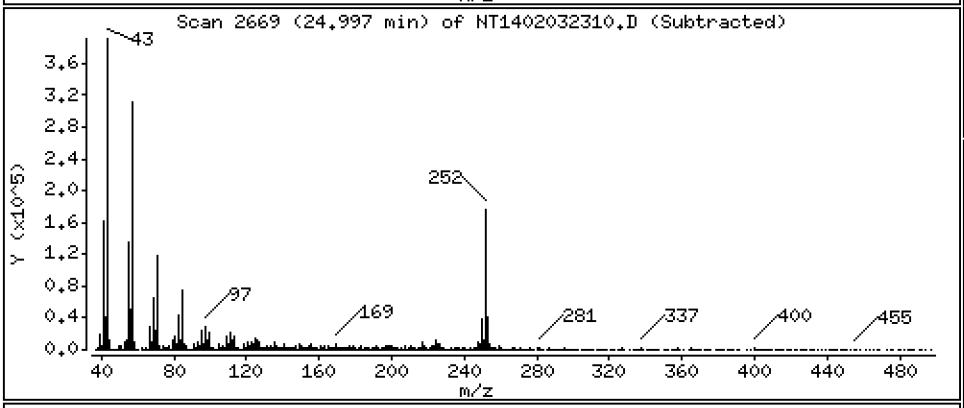
Column phase: ZB-5msi

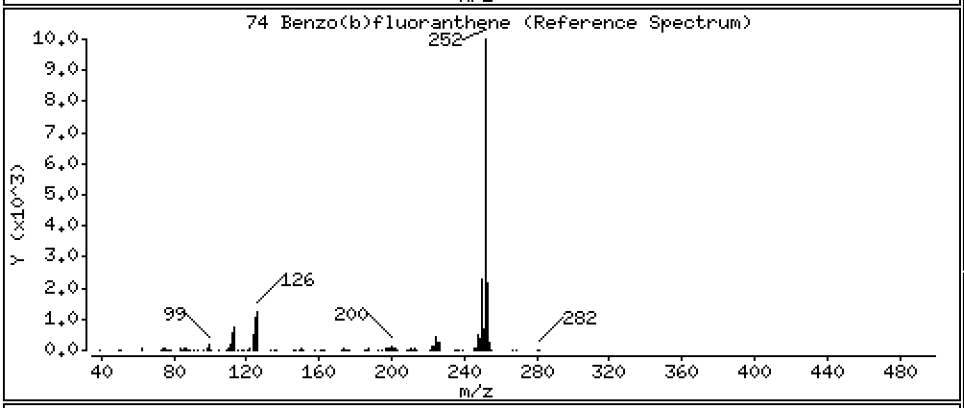
Column diameter: 0.25

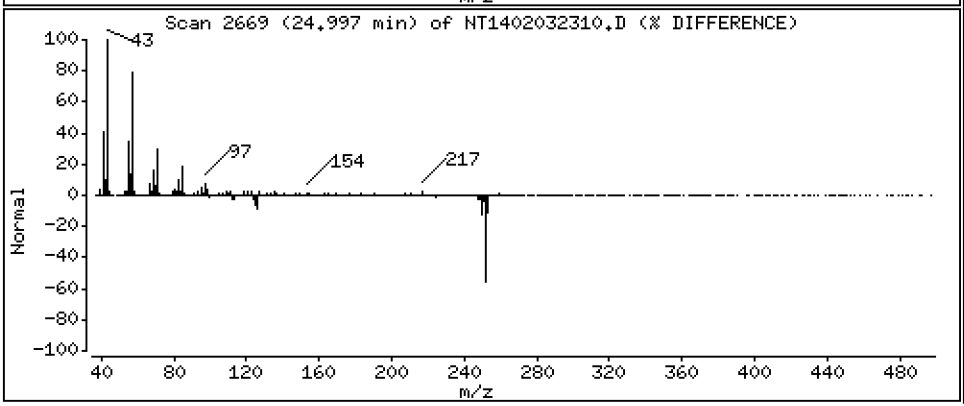
74 Benzo(b)fluoranthene

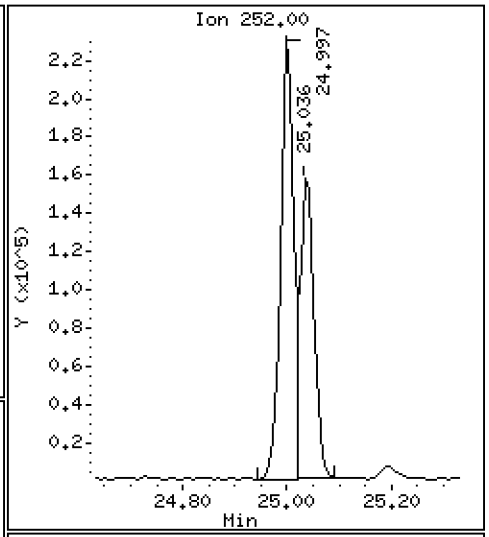
Concentration: 9.586 ug/mL

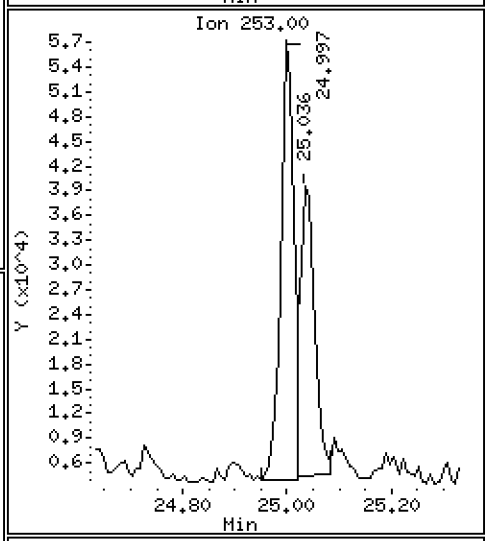


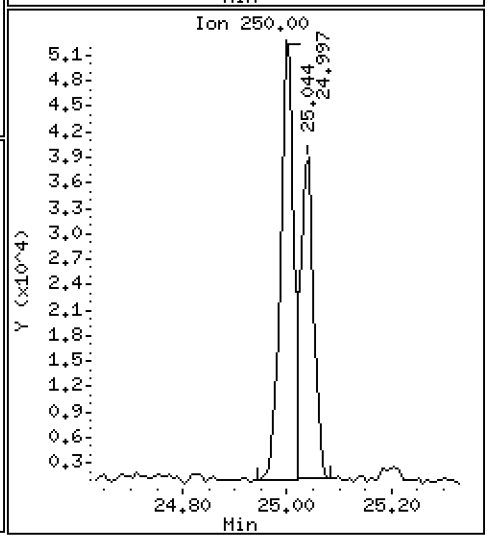












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

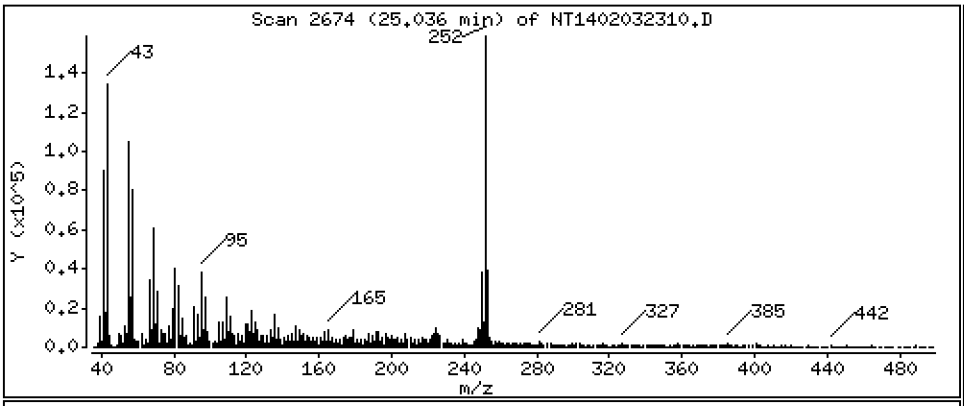
Operator: DSD

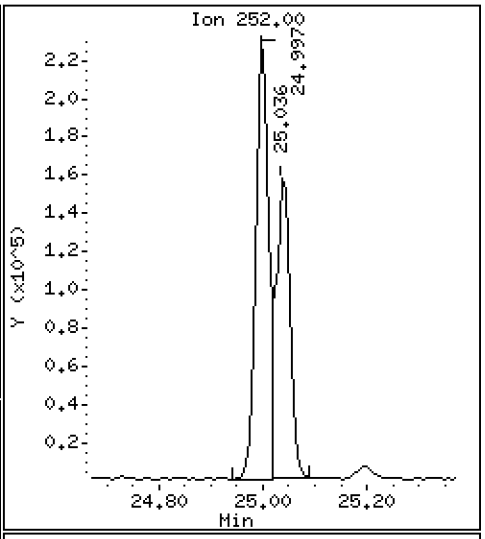
Column phase: ZB-5msi

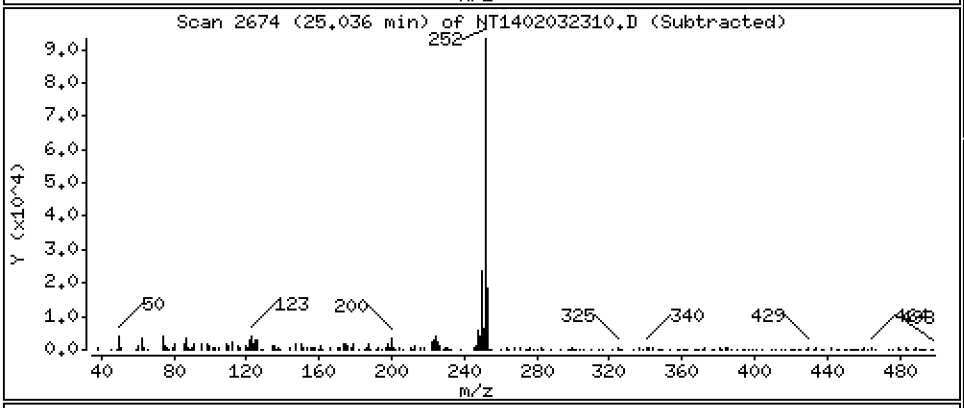
Column diameter: 0.25

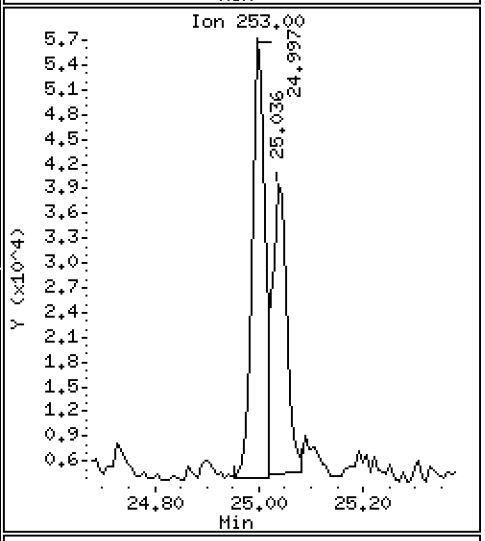
75 Benzo(k)fluoranthene

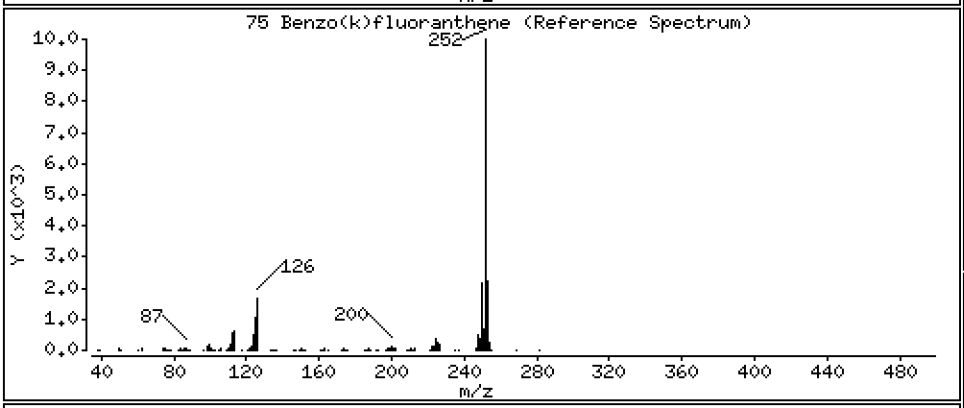
Concentration: 6.739 ug/mL

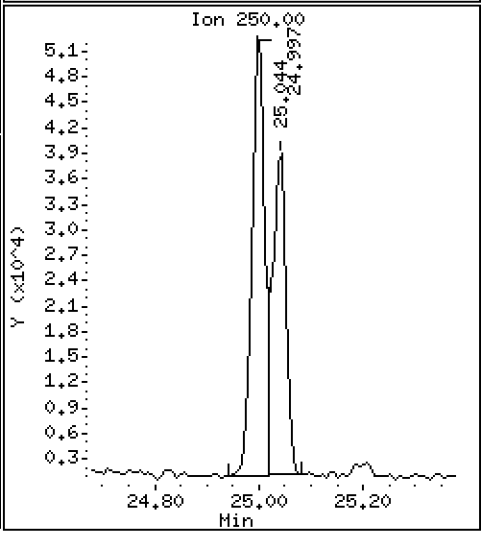


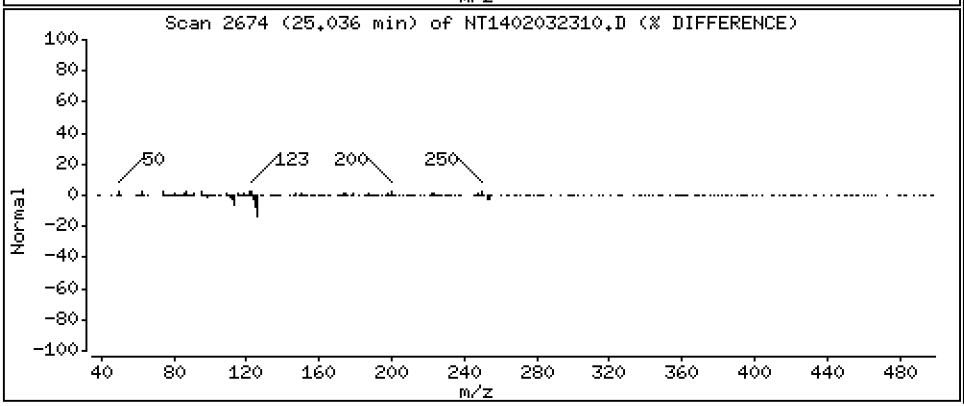












Date : 03-FEB-2023 18:32

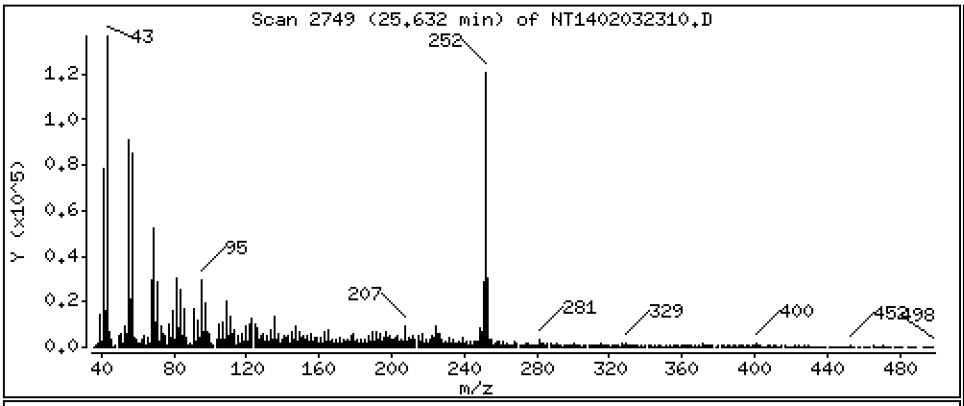
Client ID: Instrument: nt14.i

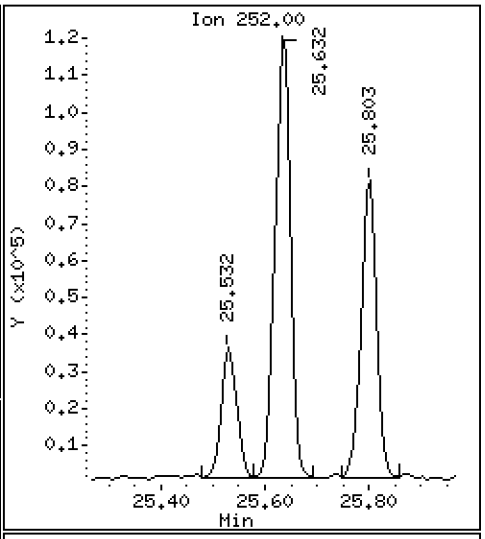
Sample Info: BLA0064-MS1

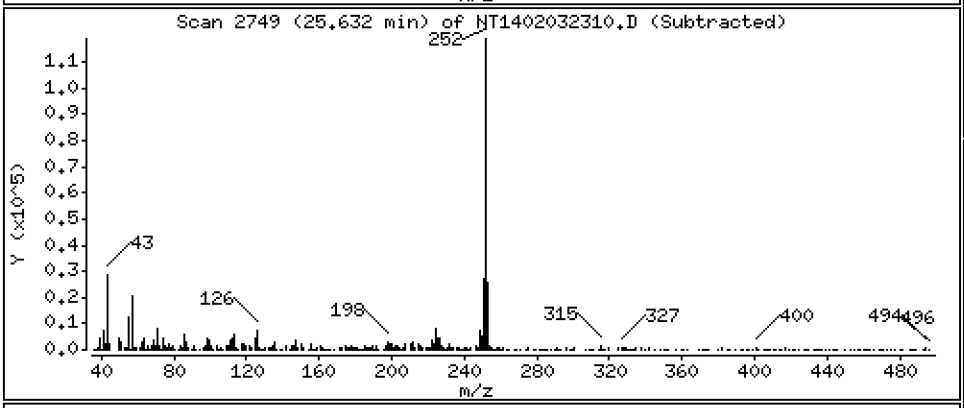
Operator: DSD

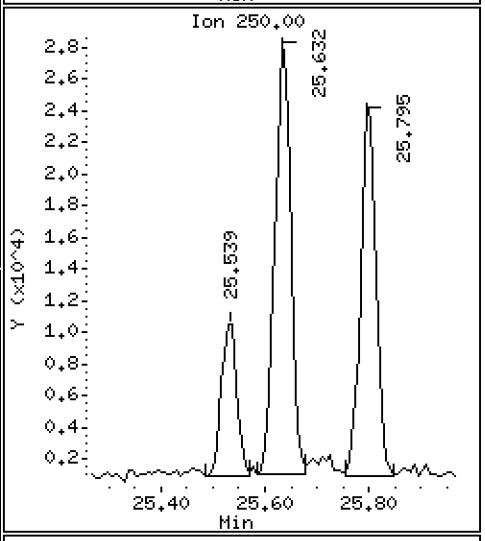
Column phase: ZB-5msi Column diameter: 0.25

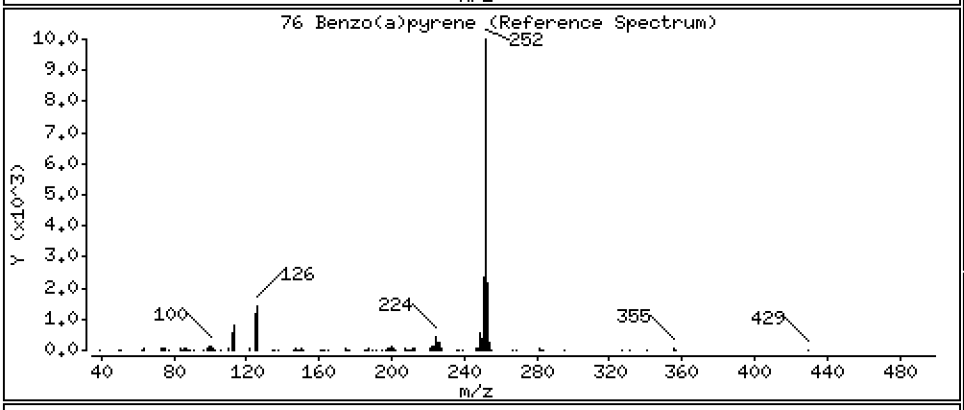
76 Benzo(a)pyrene Concentration: 6.428 ug/mL

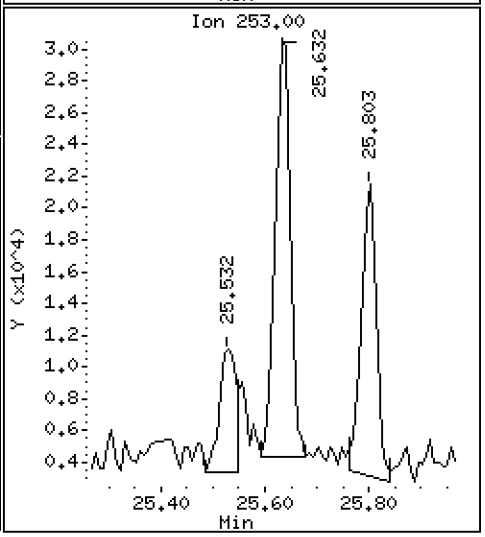


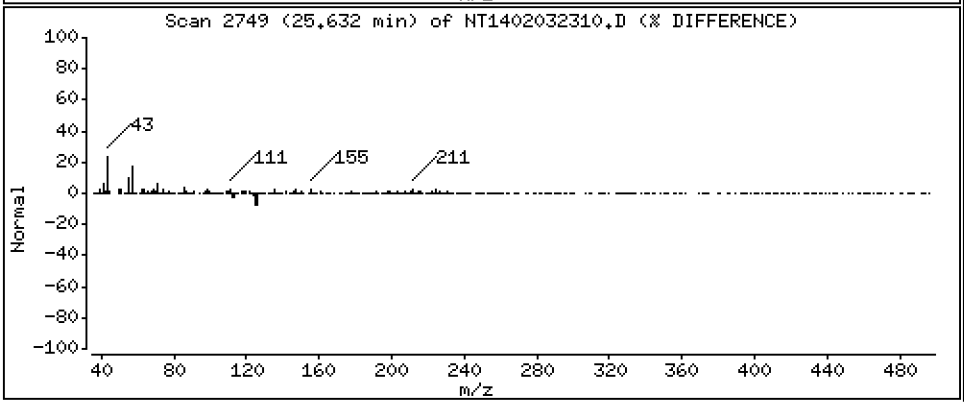












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

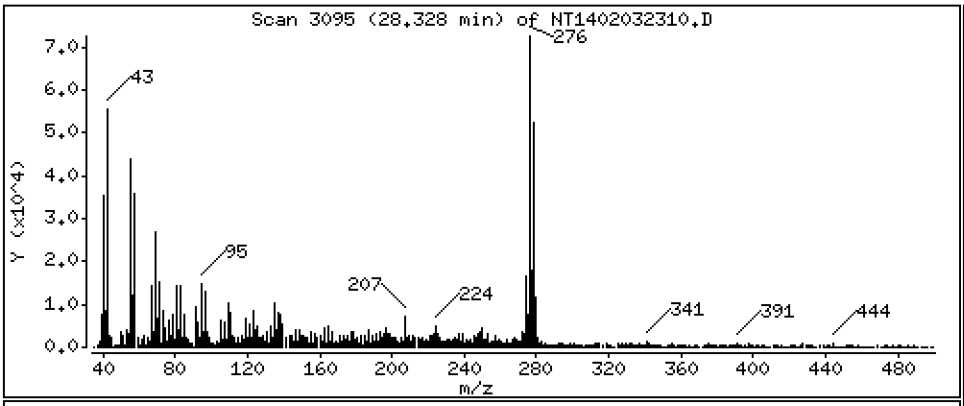
Operator: DSD

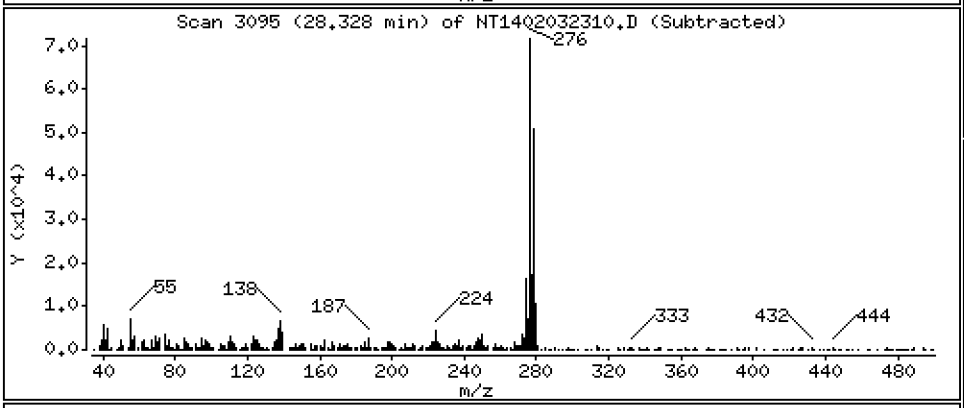
Column phase: ZB-5msi

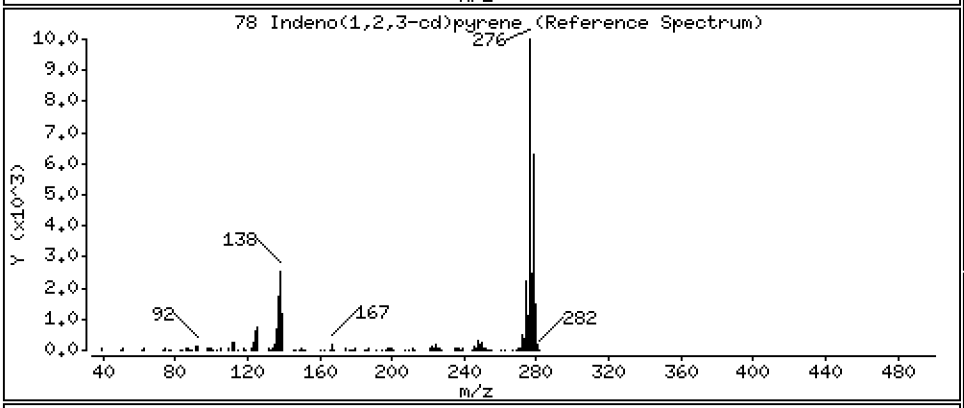
Column diameter: 0.25

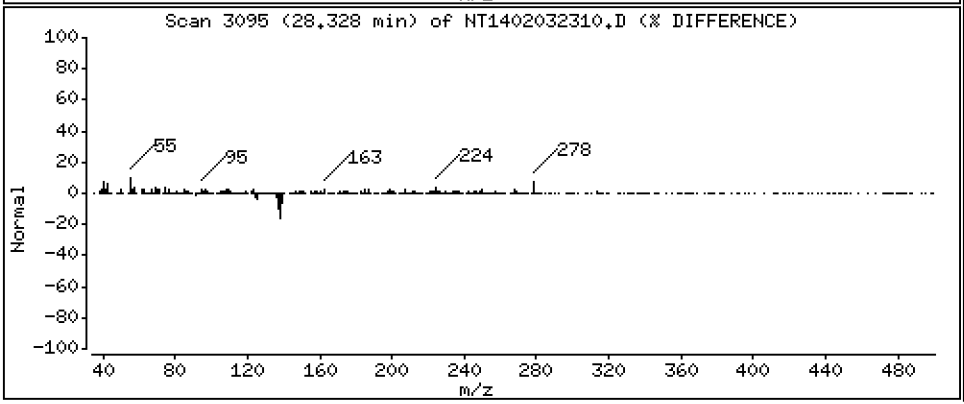
78 Indeno(1,2,3-cd)pyrene

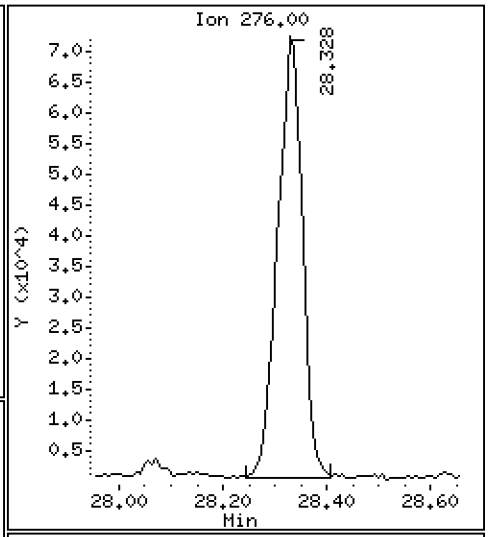
Concentration: 5.005 ug/mL

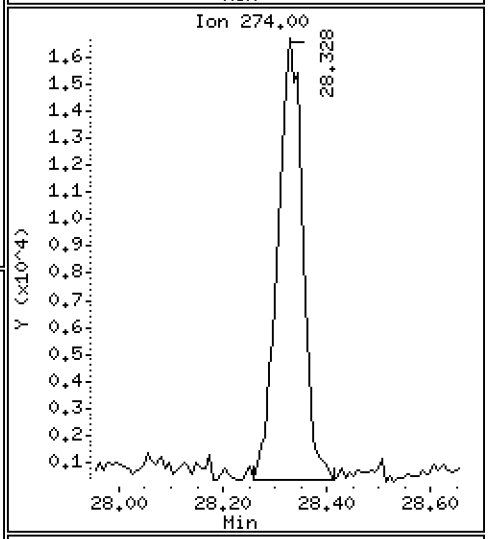


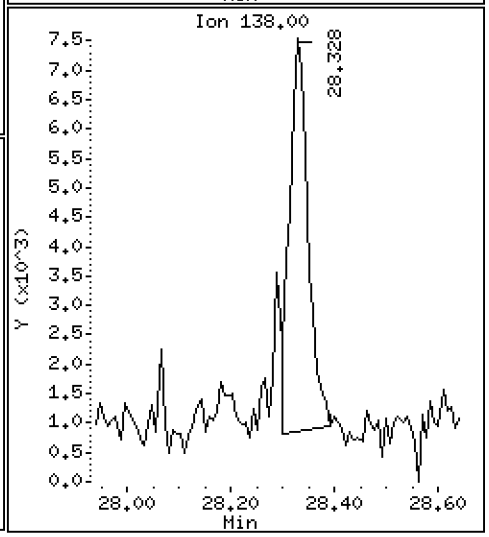












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

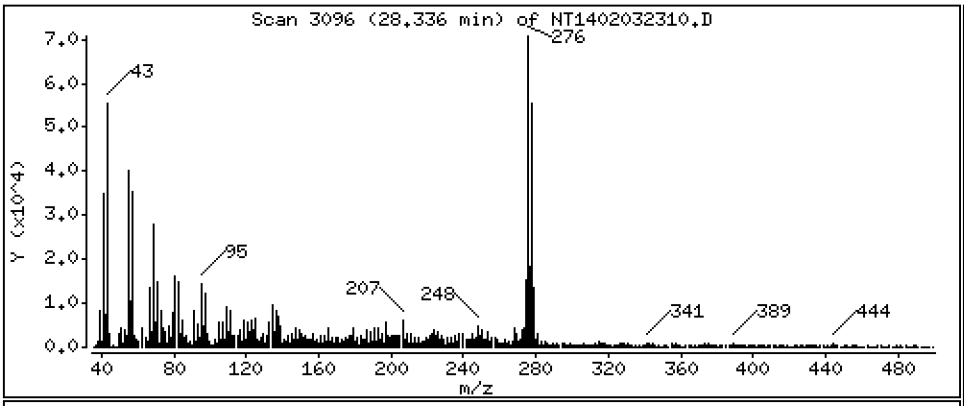
Operator: DSD

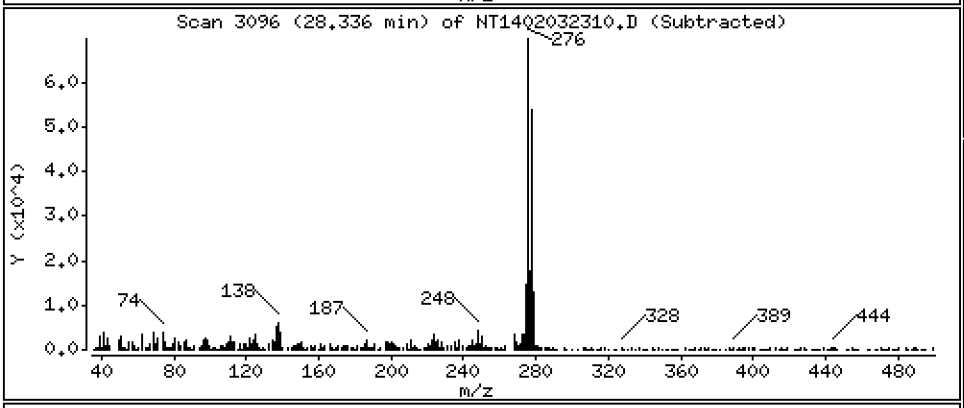
Column phase: ZB-5msi

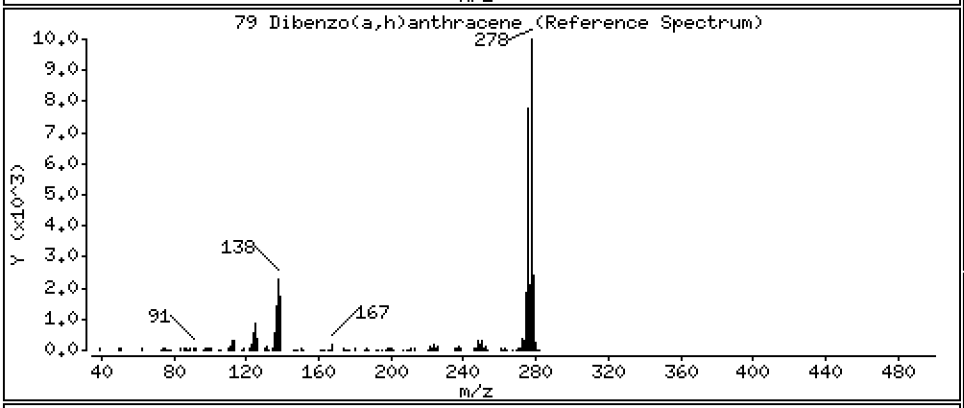
Column diameter: 0.25

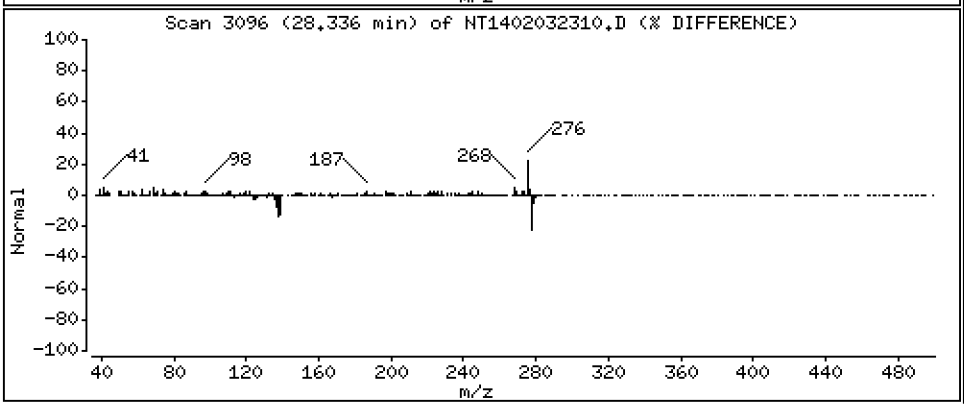
79 Dibenzo(a,h)anthracene

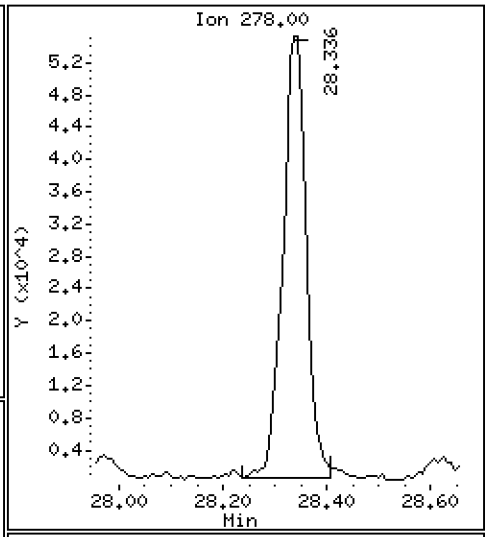
Concentration: 4.244 ug/mL

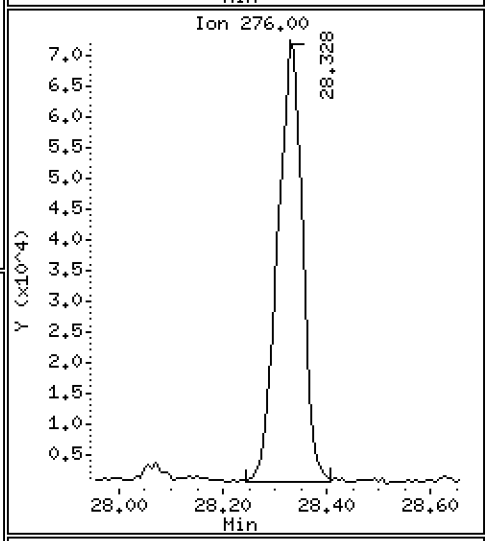


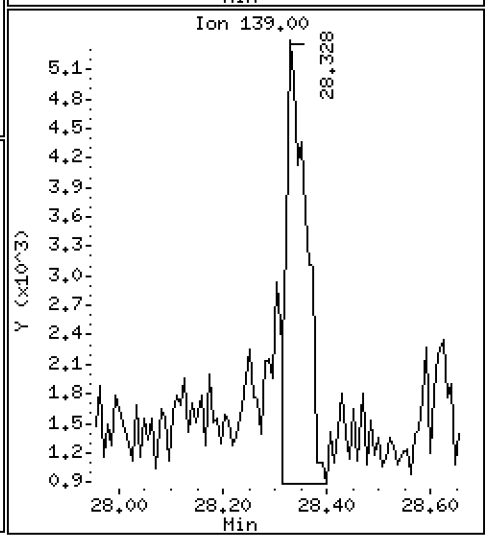












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

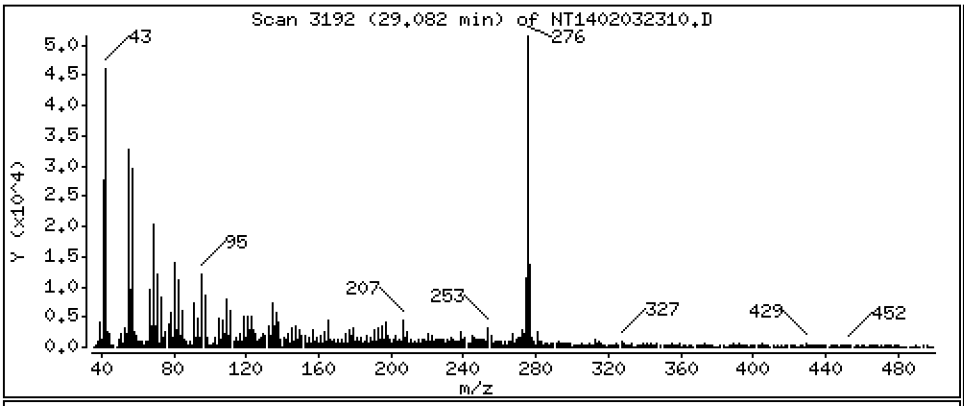
Operator: DSD

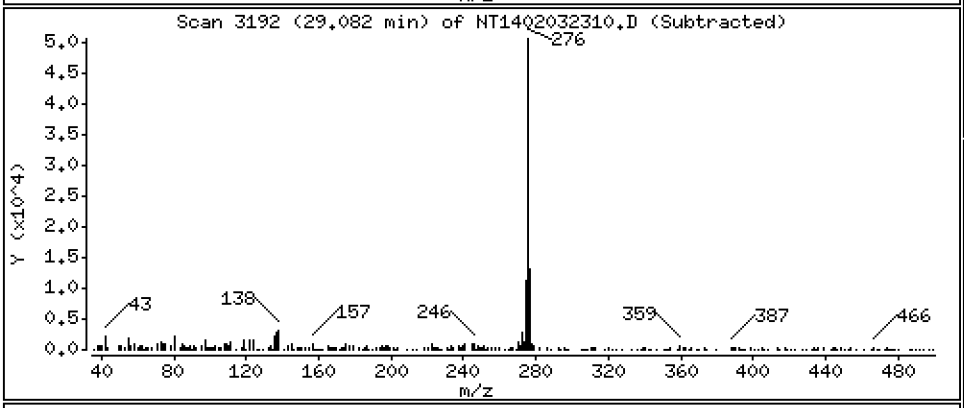
Column phase: ZB-5msi

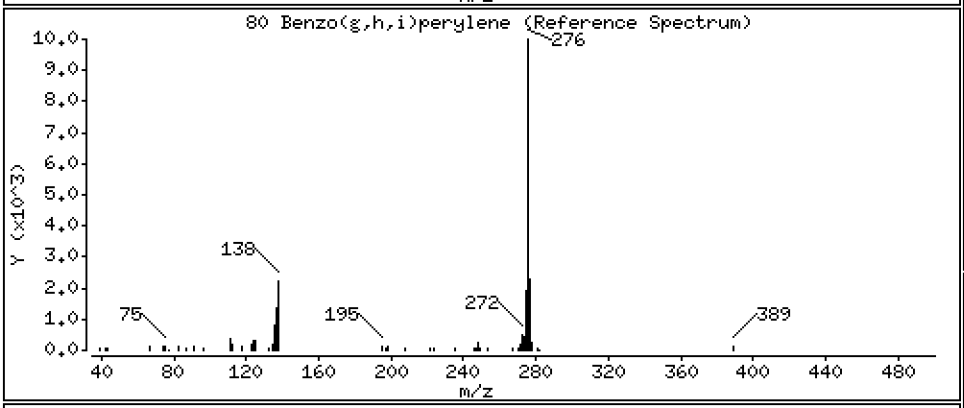
Column diameter: 0.25

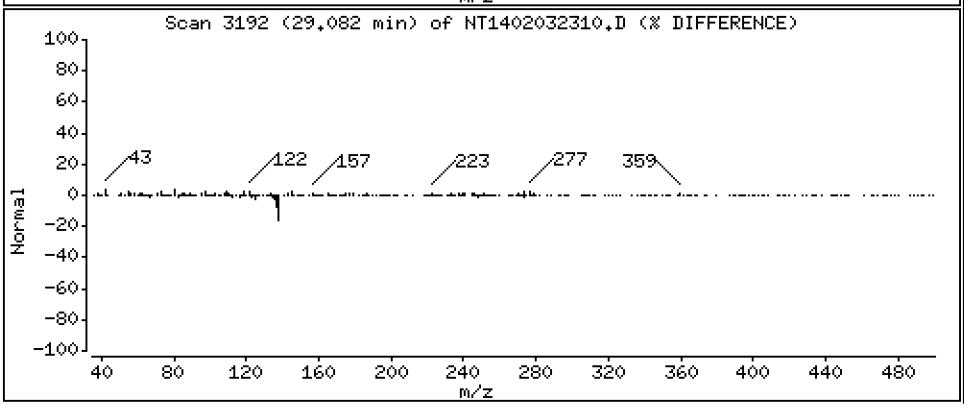
80 Benzo(g,h,i)perylene

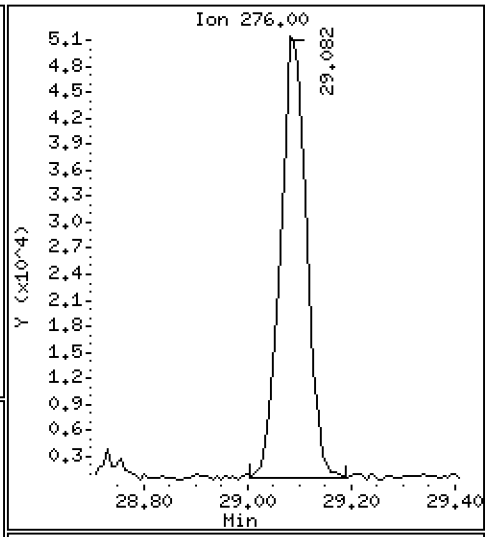
Concentration: 5.105 ug/mL

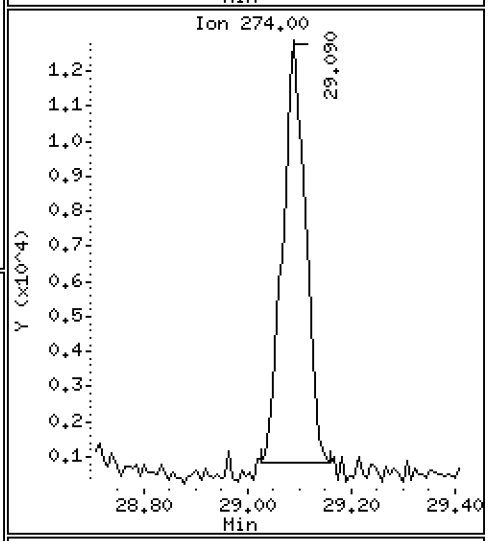


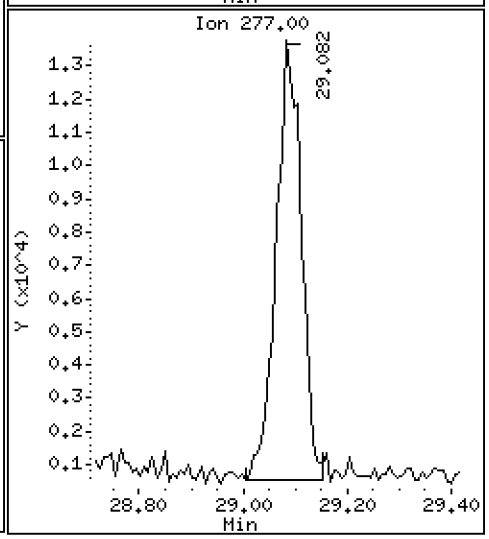












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

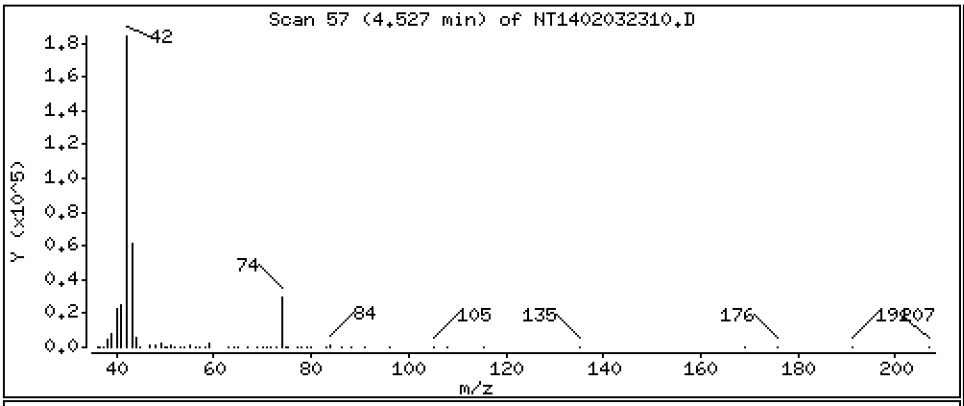
Operator: DSD

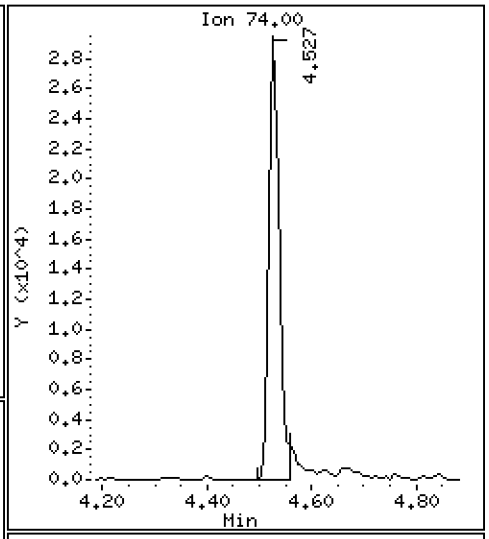
Column phase: ZB-5msi

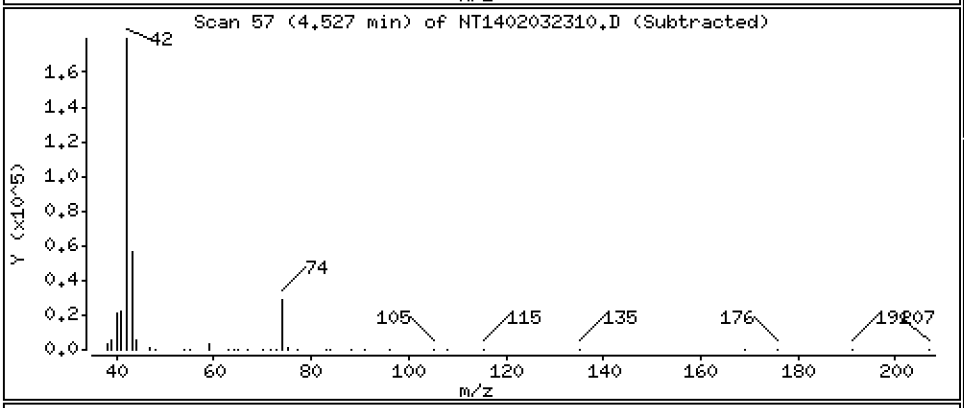
Column diameter: 0.25

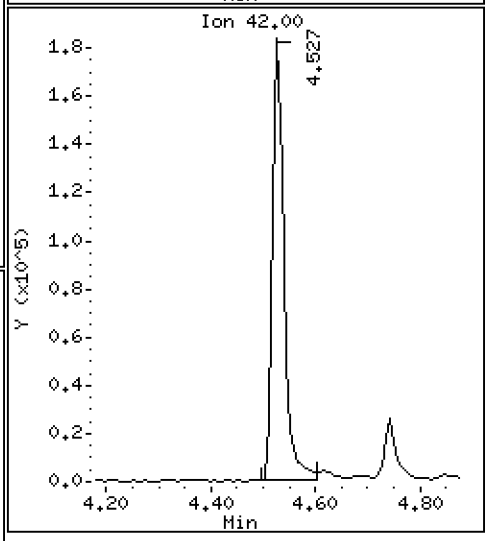
90 N-Nitrosodimethylamine

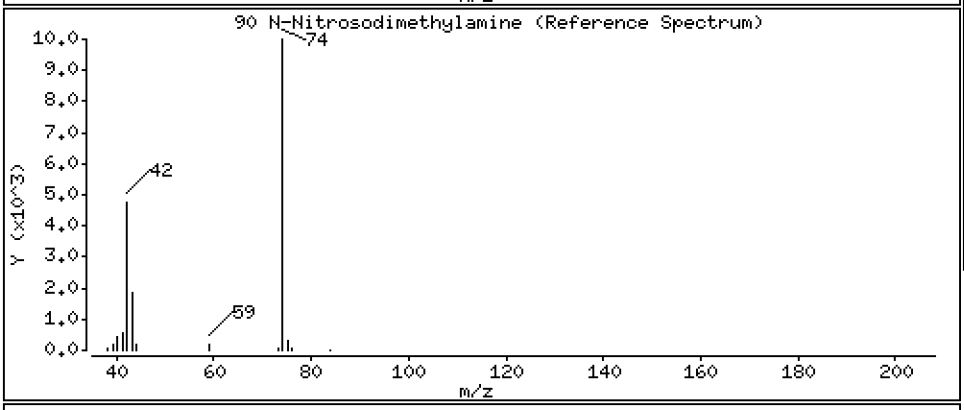
Concentration: 4.071 ug/mL

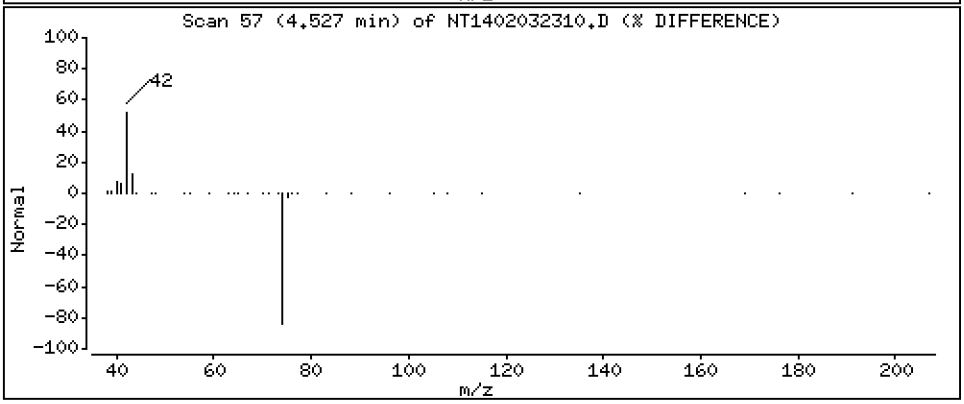












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

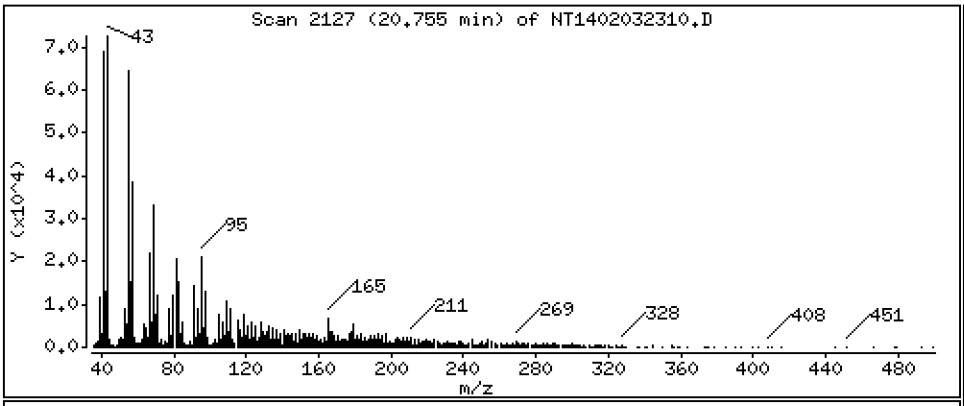
Operator: DSD

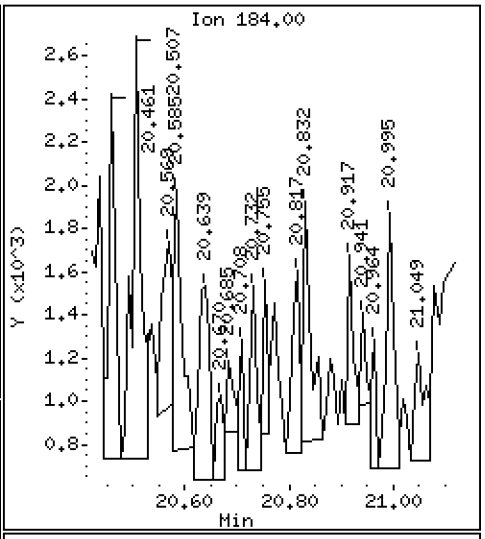
Column phase: ZB-5msi

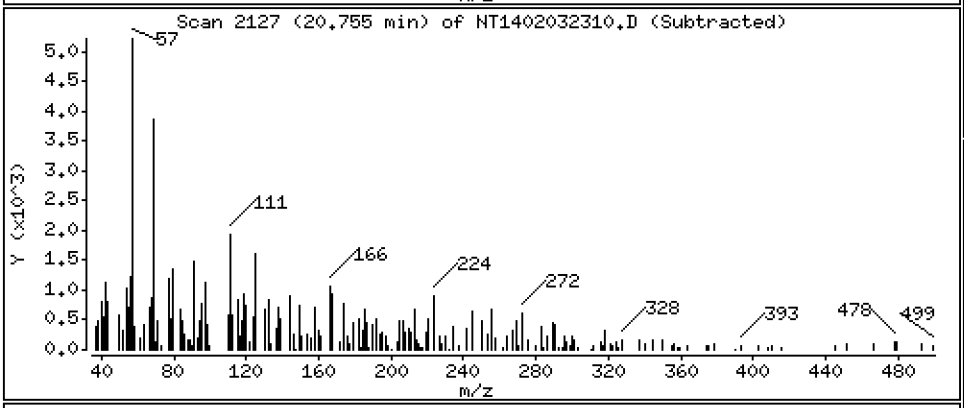
Column diameter: 0.25

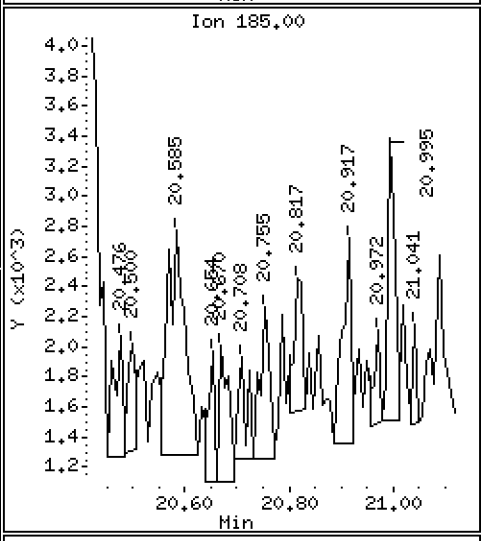
93 Benzidine

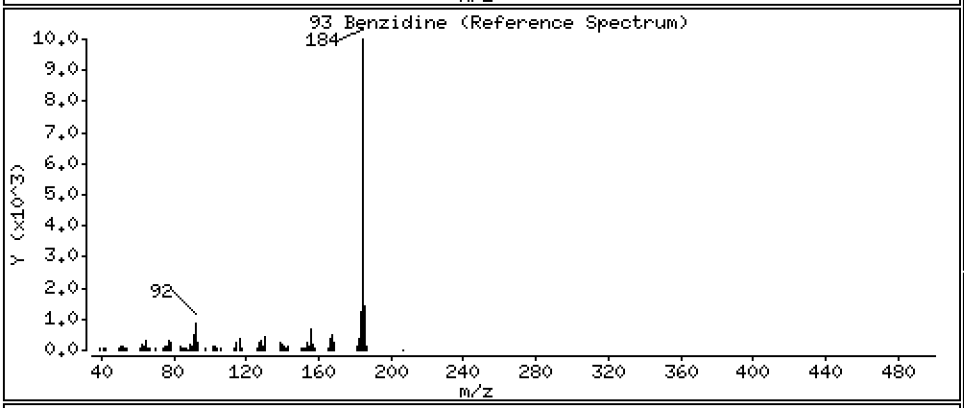
Concentration: 0.02036 ug/mL

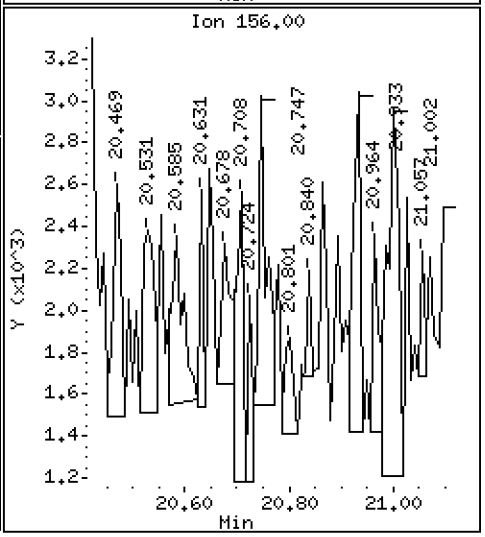


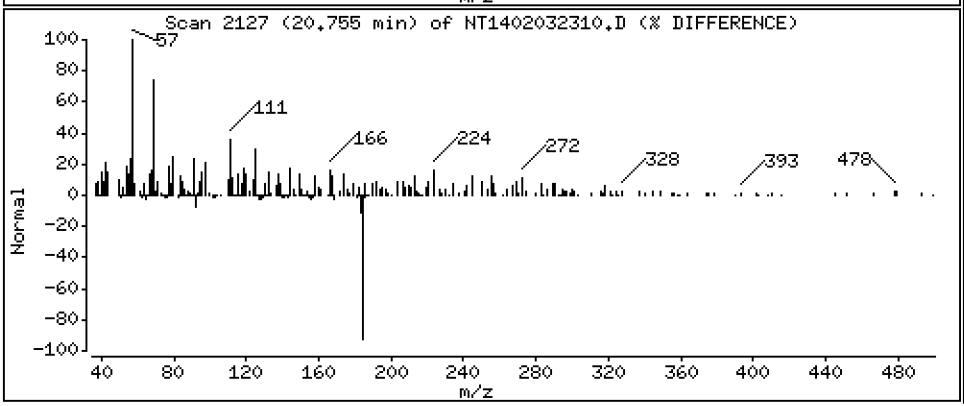












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032310.D

Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

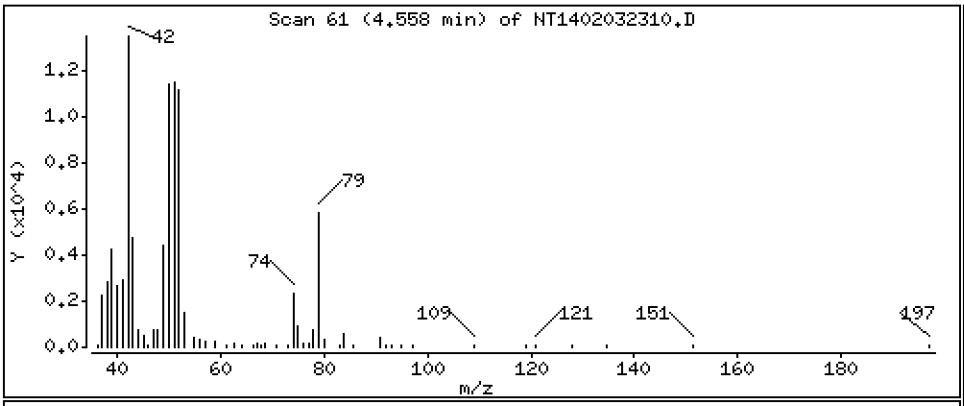
Operator: DSD

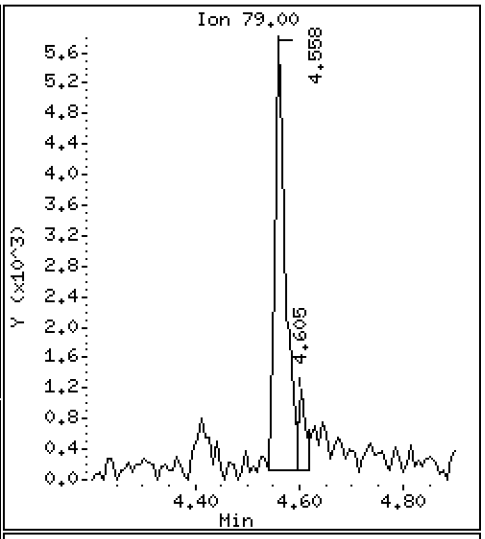
Column phase: ZB-5msi

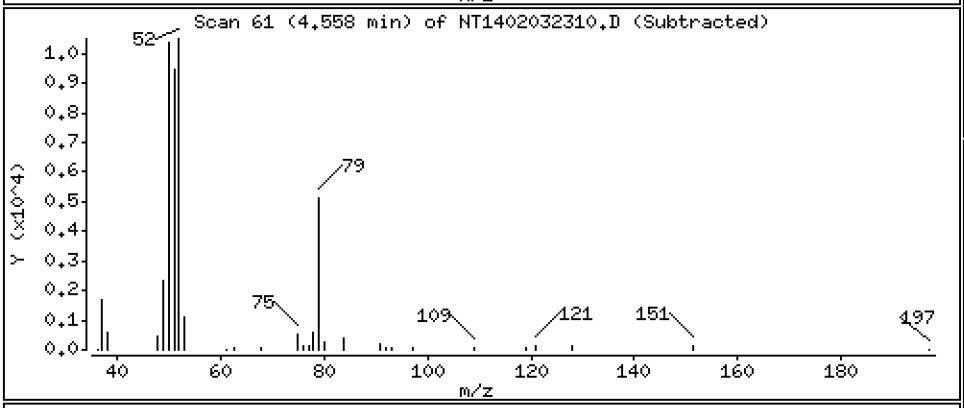
Column diameter: 0.25

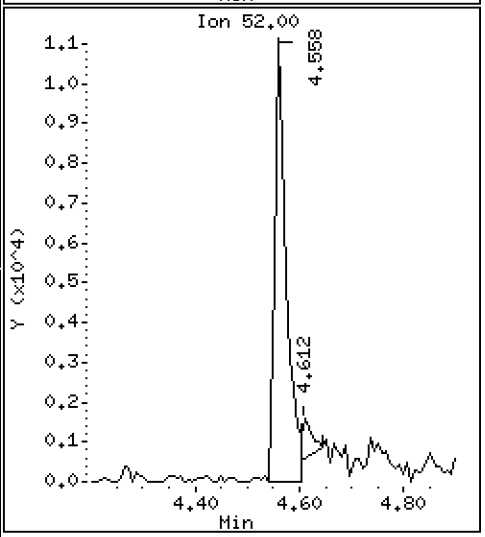
103 Pyridine

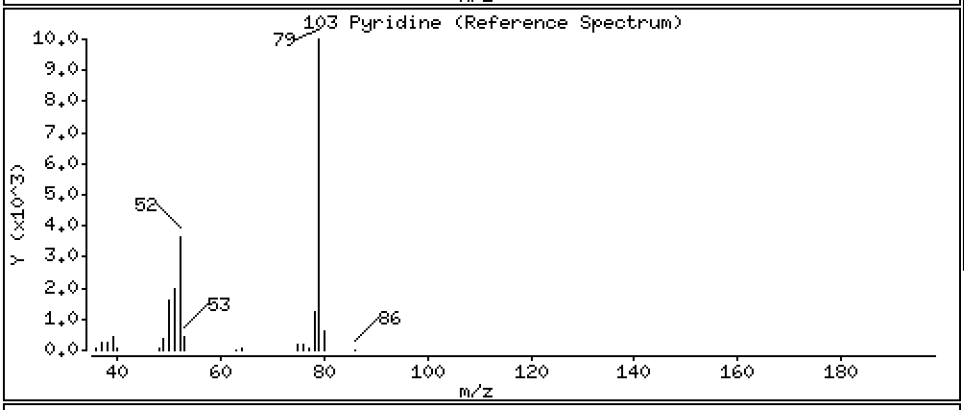
Concentration: 0.3040 ug/mL

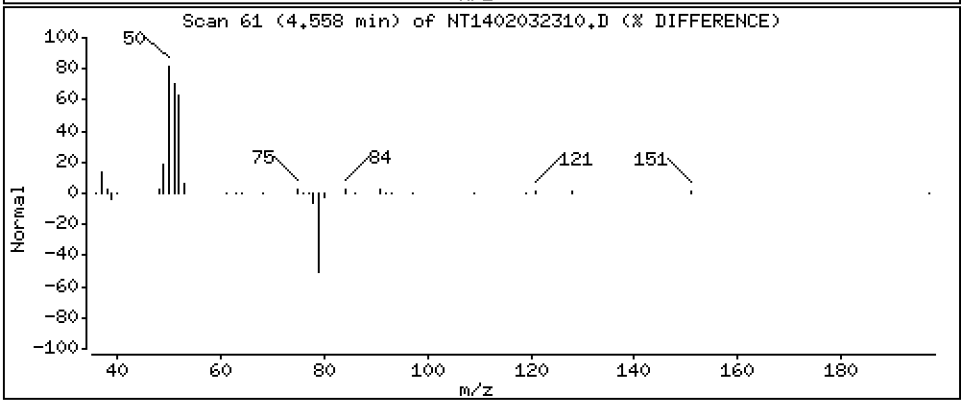












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

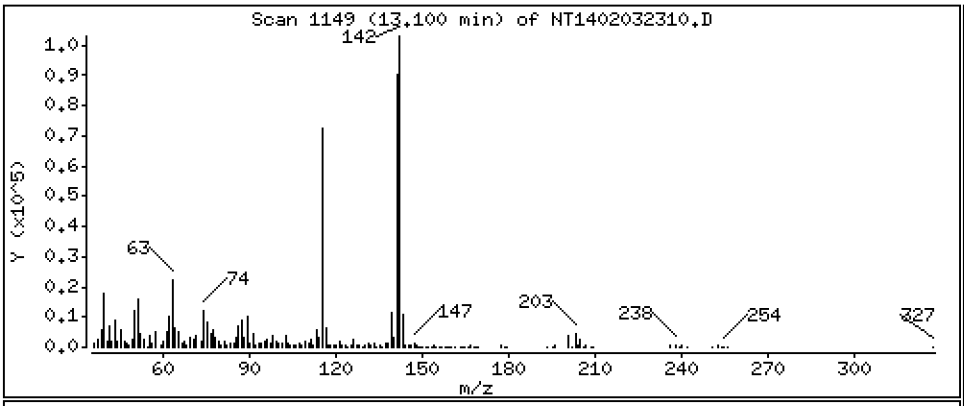
Operator: DSD

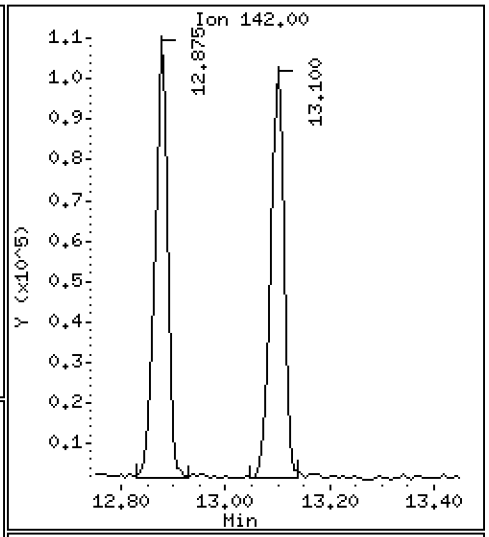
Column phase: ZB-5msi

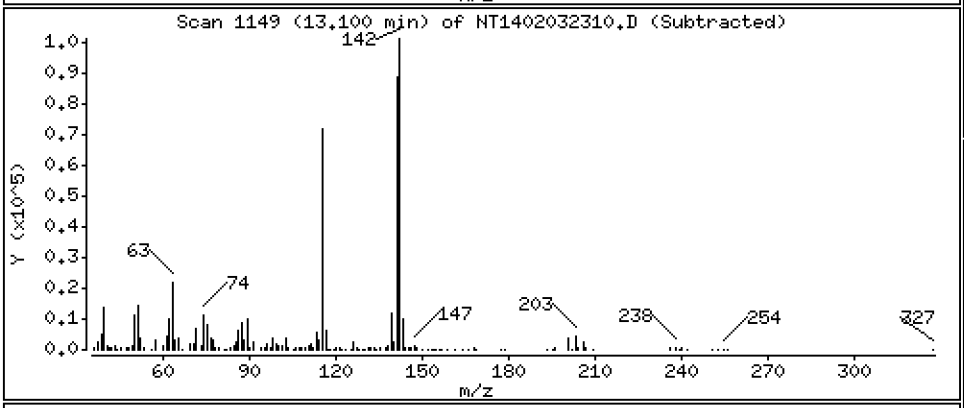
Column diameter: 0.25

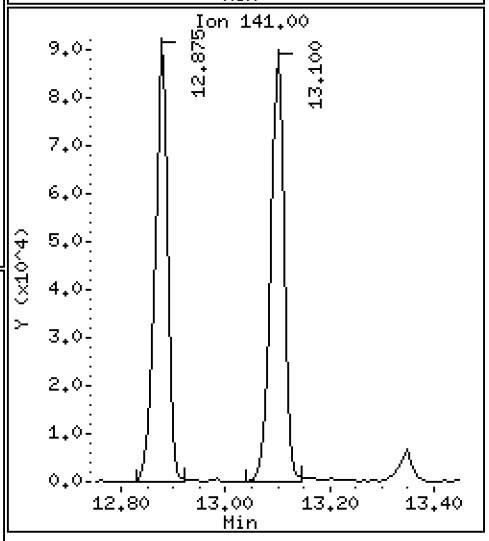
105 1-methylnaphthalene

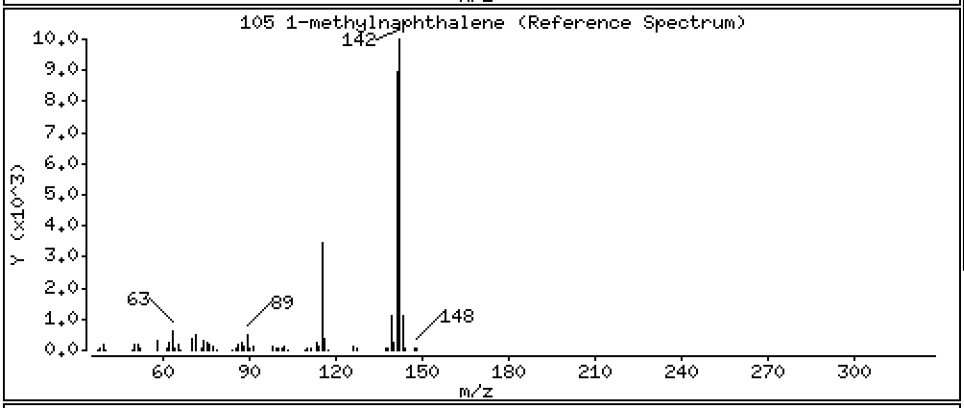
Concentration: 3.582 ug/mL

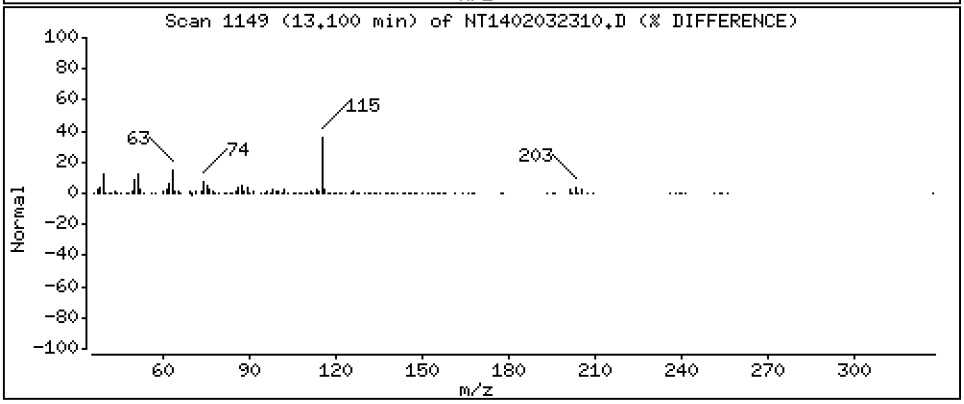












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

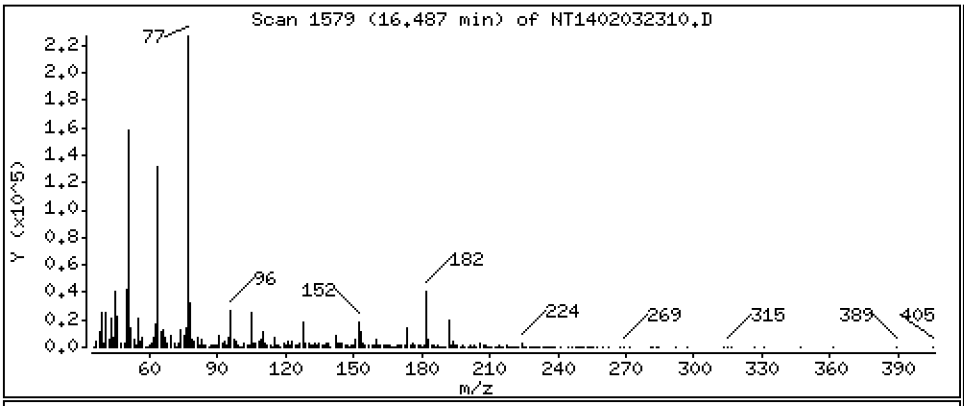
Operator: DSD

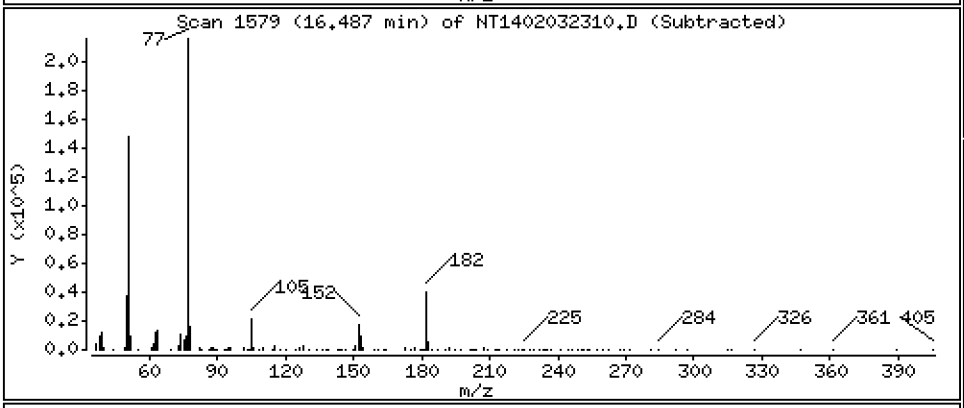
Column phase: ZB-5msi

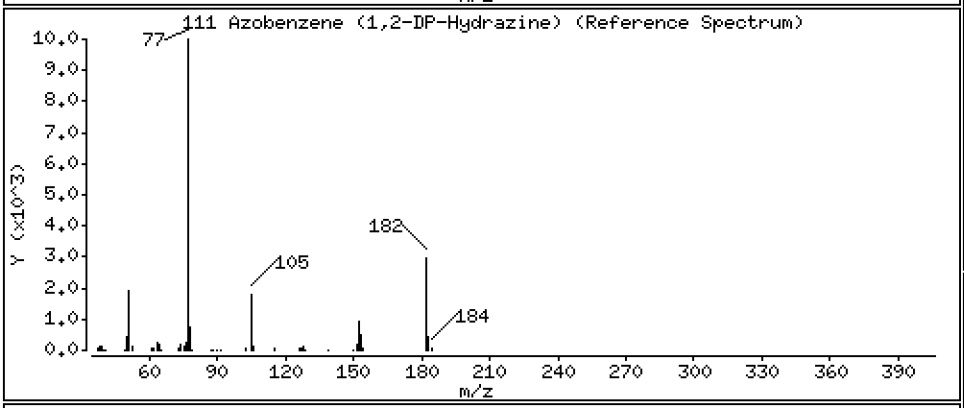
Column diameter: 0.25

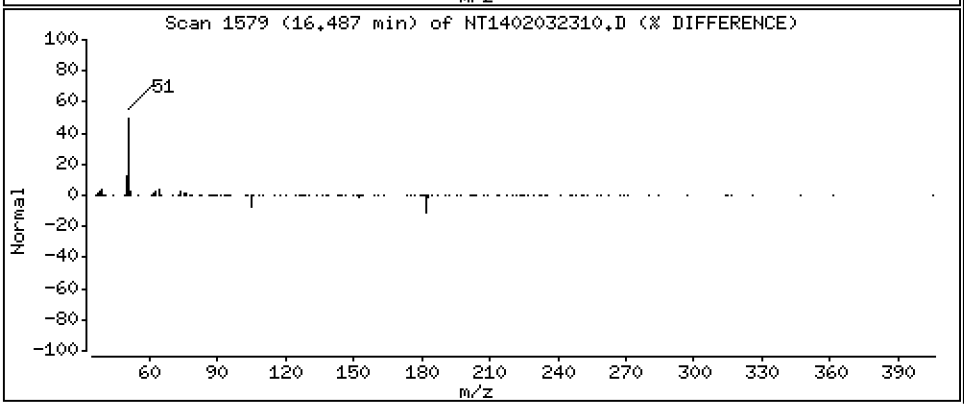
111 Azobenzene (1,2-DP-Hydrazine)

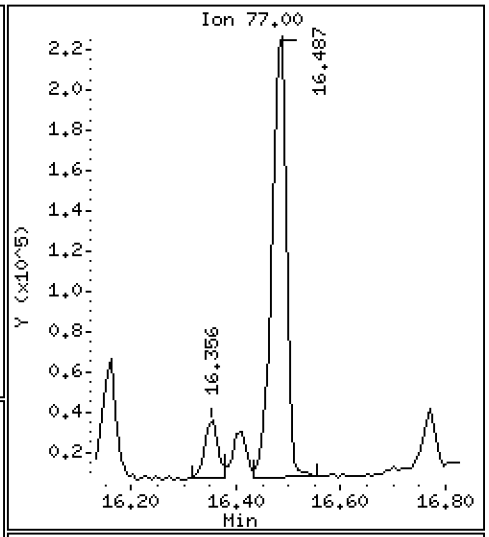
Concentration: 3.457 ug/mL

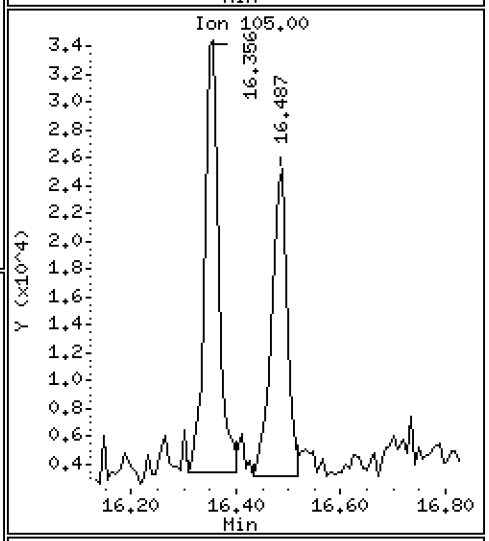


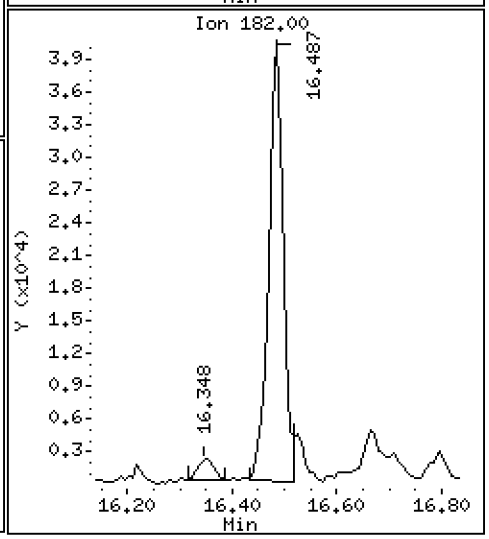












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

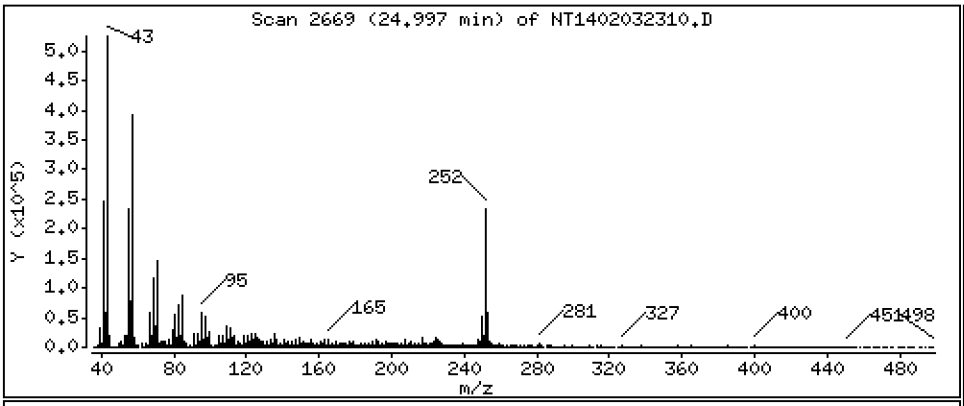
Operator: DSD

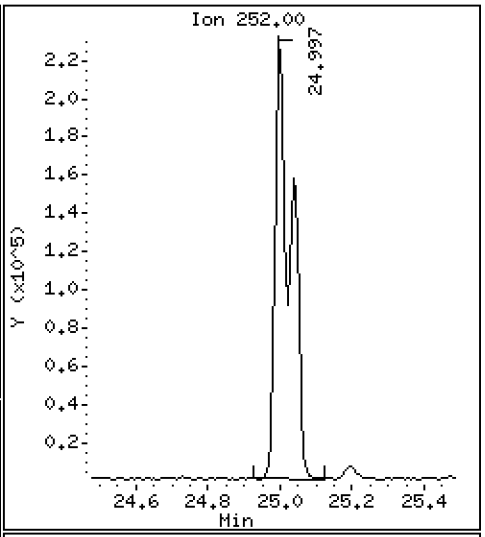
Column phase: ZB-5msi

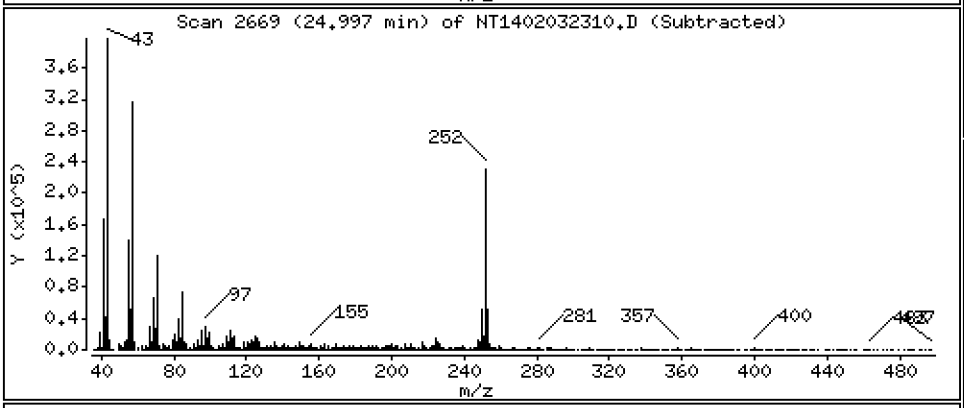
Column diameter: 0.25

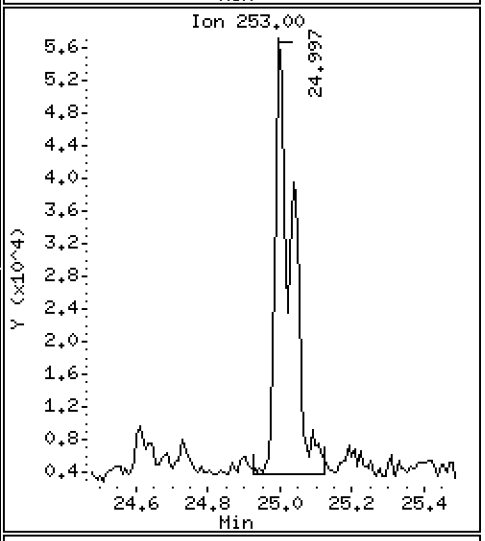
187 Total Benzofluoranthenes

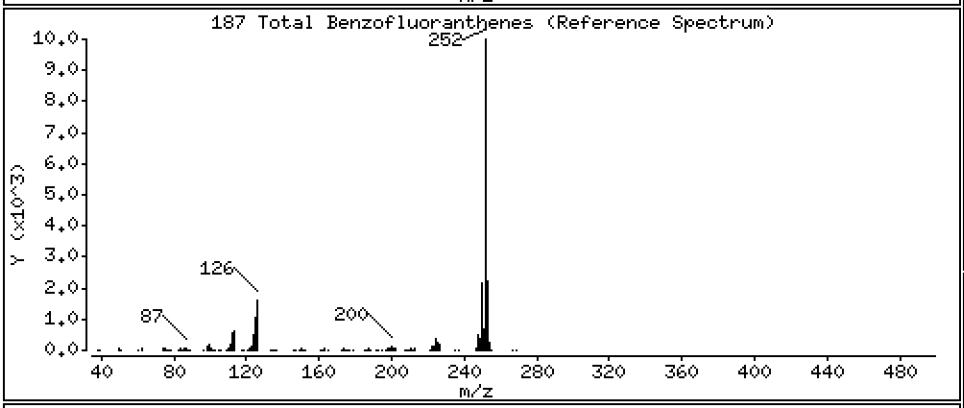
Concentration: 15.98 ug/mL

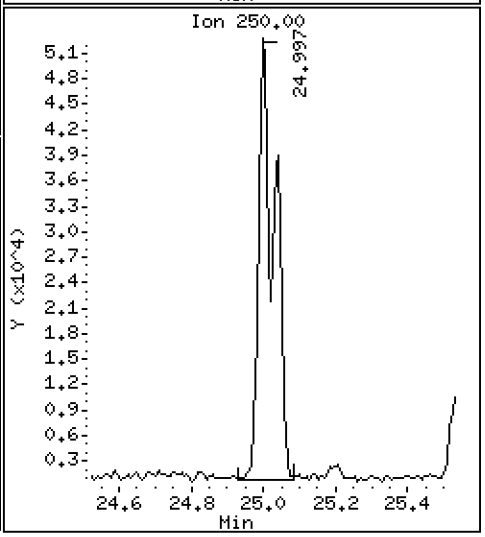


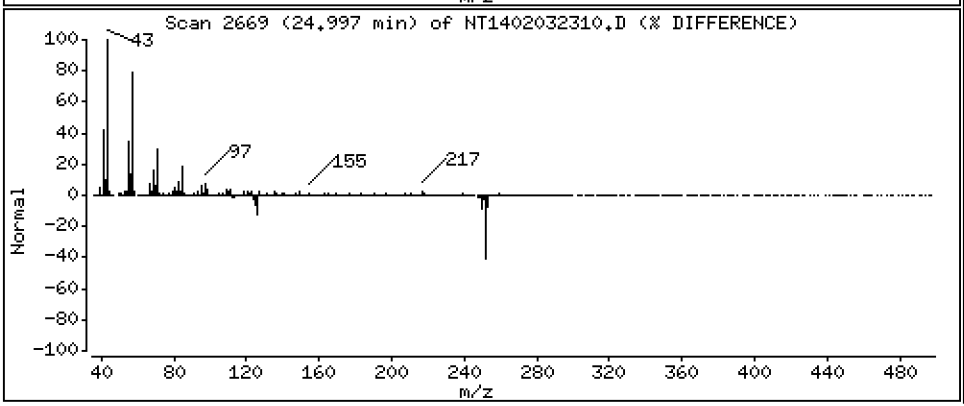












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Date : 03-FEB-2023 18:32

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MS1

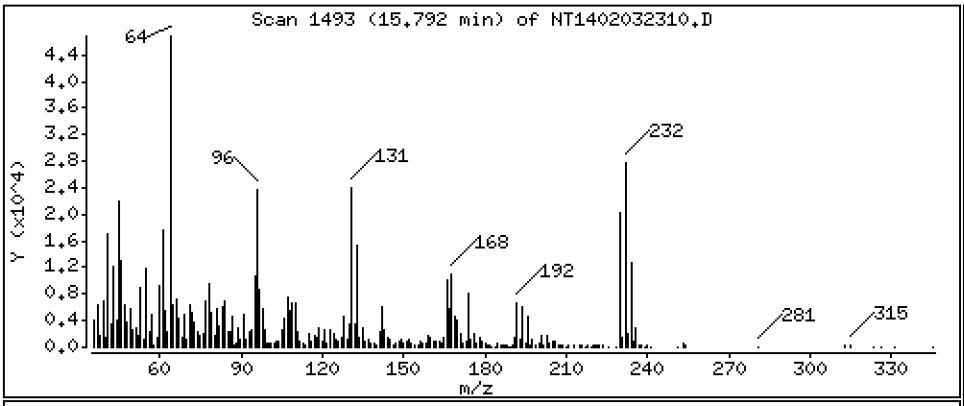
Operator: DSD

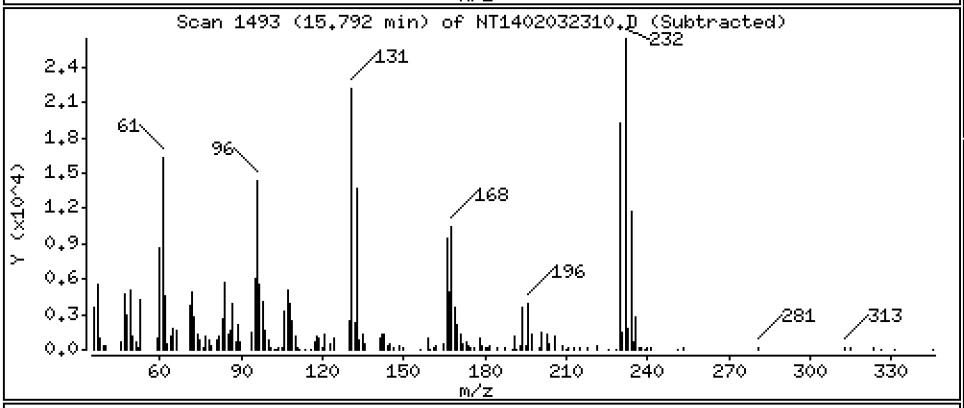
Column phase: ZB-5msi

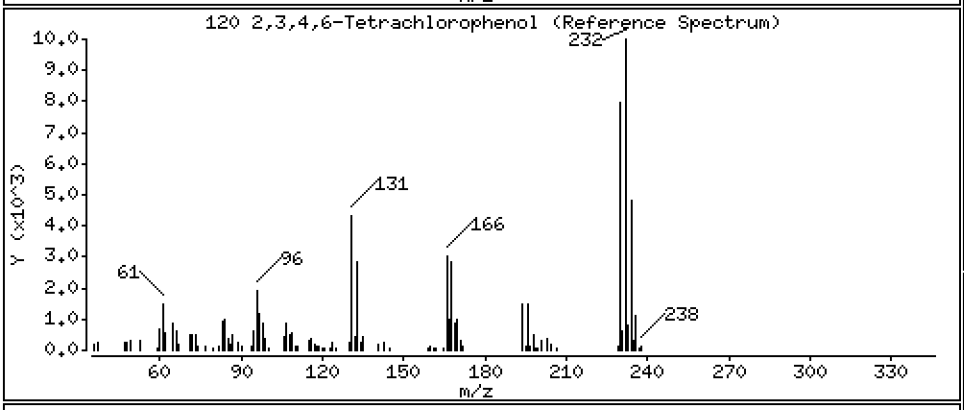
Column diameter: 0.25

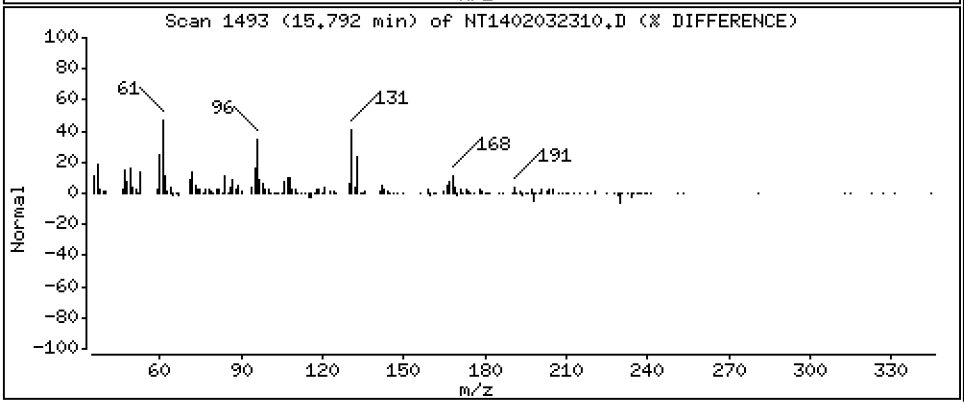
120 2,3,4,6-Tetrachlorophenol

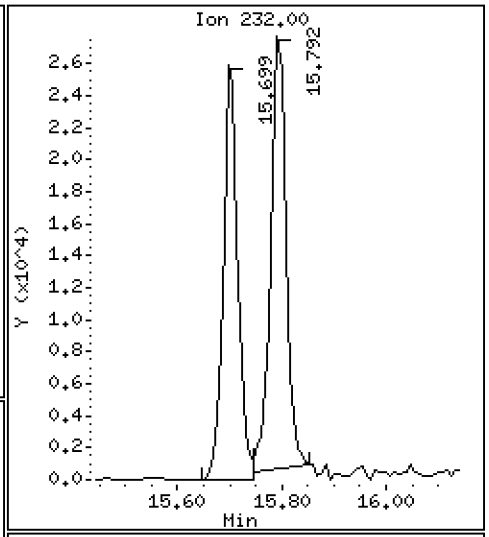
Concentration: 2.744 ug/mL

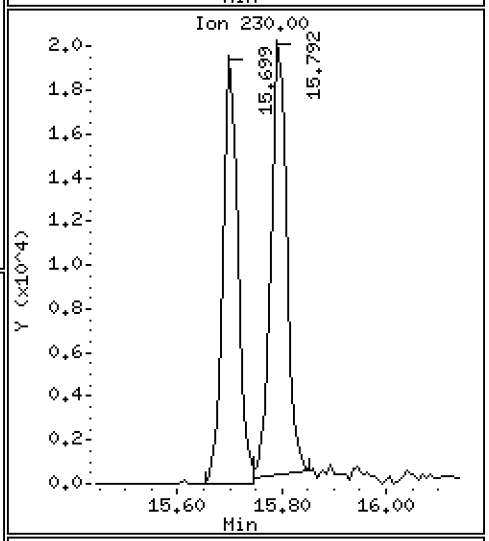


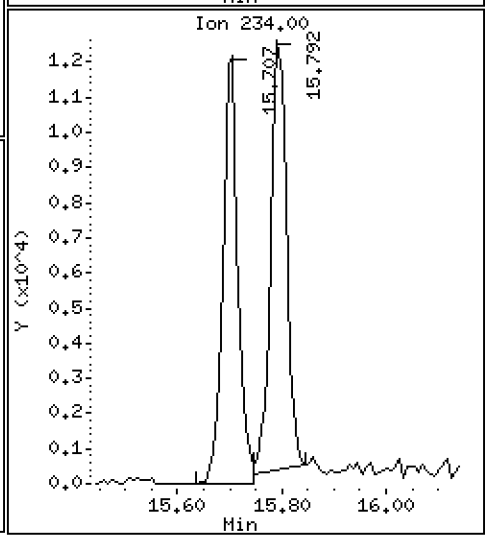












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: BLA0064-MS1
Inj Date : 03-FEB-2023 18:32 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : BLA0064-MS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.720	6.720	(0.752)	60043	3.86426	3.864
$	2 Phenol-d5	99	8.312	8.312	(0.930)	94742	4.64071	4.641
	3 Phenol	94	8.335	8.336	(0.933)	64125	2.56079	2.561
$	5 2-Chlorophenol-d4	132	8.583	8.583	(0.960)	99991	5.06382	5.064
	4 Bis(2-Chloroethyl)ether	93	8.490	8.490	(0.950)	49224	3.41776	3.418
	6 2-Chlorophenol	128	8.606	8.606	(0.963)	57170	2.74963	2.750
	7 1,3-Dichlorobenzene	146	8.876	8.884	(0.993)	67260	2.89700	2.897
*	8 1,4-Dichlorobenzene-d4	152	8.938	8.946	(1.000)	57851	4.00000	
	9 1,4-Dichlorobenzene	146	8.969	8.977	(1.003)	72478	3.08958	3.090
$	10 1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.041)	43007	3.06880	3.069
	12 1,2-Dichlorobenzene	146	9.326	9.334	(1.043)	68485	2.96907	2.969
	11 Benzyl alcohol	108	9.218	9.218	(1.031)	37458	3.03410	3.034
	14 2,2'-oxybis(1-Chloropropane)	121	9.521	9.521	(1.065)	23426	3.62700	3.627
	13 2-Methylphenol	108	9.451	9.451	(1.057)	52495	2.73020	2.730
	17 Hexachloroethane	117	9.924	9.924	(1.110)	41830	2.95586	2.956
	16 N-Nitroso-di-n-propylamine	70	9.769	9.777	(1.093)	53687	3.19988	3.200
	15 4-Methylphenol	108	9.722	9.722	(1.088)	77054	3.55057	3.551
$	18 Nitrobenzene-d5	82	10.033	10.041	(0.877)	114777	3.35761	3.358
	19 Nitrobenzene	77	10.072	10.072	(0.881)	101132	3.03561	3.036
	20 Isophorone	82	10.522	10.530	(0.920)	164949	4.37773	4.378
	21 2-Nitrophenol	139	10.708	10.708	(0.936)	41563	3.26329	3.263
	22 2,4-Dimethylphenol	107	10.770	10.770	(0.942)	274105	8.14724	8.147
	23 Bis(2-Chloroethoxy)methane	93	10.964	10.964	(0.959)	74626	3.92063	3.921
	24 Benzoic acid	105	10.940	10.972	(0.957)	74912	3.72633	3.726
	25 2,4-Dichlorophenol	162	11.165	11.165	(0.976)	257616	11.8790	11.88
	26 1,2,4-Trichlorobenzene	180	11.351	11.351	(0.993)	87176	3.70055	3.701
*	27 Naphthalene-d8	136	11.436	11.436	(1.000)	238919	4.00000	
	28 Naphthalene	128	11.475	11.482	(1.003)	225086	3.74433	3.744
	29 4-Chloroaniline	127	11.645	11.614	(1.018)	18809	0.75231	0.7523(M)
	30 Hexachlorobutadiene	225	11.845	11.845	(1.036)	75081	4.03678	4.037
	31 4-Chloro-3-methylphenol	107	12.581	12.581	(1.100)	339640	11.5690	11.57
	32 2-Methylnaphthalene	142	12.875	12.882	(1.126)	178420	3.64072	3.641
	33 Hexachlorocyclopentadiene	237	13.347	13.347	(0.886)	50690	2.46614	2.466

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.501	13.502	(0.897)	229181	11.9616	11.96
	35	2,4,5-Trichlorophenol	196	13.579	13.579	(0.902)	243926	11.5010	11.50
$	36	2-Fluorobiphenyl	172	13.664	13.664	(0.907)	206938	3.92361	3.924
	37	2-Chloronaphthalene	162	13.873	13.873	(0.921)	161169	3.67292	3.673
	38	2-Nitroaniline	65	14.136	14.128	(0.939)	344535	13.3843	13.38
	39	Dimethylphthalate	163	14.570	14.570	(0.968)	234884	4.13675	4.137
	40	Acenaphthylene	152	14.748	14.748	(0.979)	228222	3.32256	3.323
	41	2,6-Dinitrotoluene	165	14.701	14.701	(0.976)	187941	14.4207	14.42
*	42	Acenaphthene-d10	164	15.057	15.057	(1.000)	148197	4.00000	
	43	3-Nitroaniline	138	14.995	14.988	(0.996)	39476	3.13738	3.137
	44	Acenaphthene	153	15.127	15.127	(1.005)	189315	4.07465	4.075
	45	2,4-Dinitrophenol	184	15.235	15.204	(1.012)	4773	0.37444	0.3744(M)
	46	Dibenzofuran	168	15.451	15.451	(1.026)	267976	3.98019	3.980
	47	4-Nitrophenol	109	15.328	15.320	(1.018)	265083	10.0187	10.02
	48	2,4-Dinitrotoluene	165	15.513	15.513	(1.030)	266759	14.7479	14.75
	50	Diethylphthalate	149	16.023	16.031	(1.064)	403489	4.89021	4.890
	49	Fluorene	166	16.170	16.163	(1.074)	341009	3.94575	3.946
	51	4-Chlorophenyl-phenylether	204	16.162	16.163	(1.073)	180237	3.78978	3.790
	52	4-Nitroaniline	138	16.255	16.255	(1.080)	67528	4.51955	4.520
	53	4,6-Dinitro-2-methylphenol	198	16.355	16.355	(0.904)	133639	7.02872	7.029
	54	N-Nitrosodiphenylamine	169	16.409	16.409	(0.907)	181199	3.36761	3.368
$	55	2,4,6-Tribromophenol	330	16.702	16.702	(1.109)	78048	6.34349	6.343
	56	4-Bromophenyl-phenylether	248	17.165	17.157	(0.948)	94353	3.76203	3.762
	57	Hexachlorobenzene	284	17.481	17.474	(0.966)	114779	4.01026	4.010
	58	Pentachlorophenol	266	17.838	17.838	(0.985)	135048	8.33499	8.335
*	59	Phenanthrene-d10	188	18.101	18.093	(1.000)	317977	4.00000	
	60	Phenanthrene	178	18.155	18.147	(1.003)	447711	5.21833	5.218
	61	Anthracene	178	18.240	18.232	(1.008)	307052	3.74542	3.745
	62	Carbazole	167	18.573	18.565	(1.026)	321605	4.27220	4.272
	63	Di-n-butylphthalate	149	19.393	19.377	(1.071)	1079509	9.24927	9.249
	64	Fluoranthene	202	20.584	20.538	(0.889)	452063	8.29366	8.294
	65	Pyrene	202	20.994	20.963	(0.906)	665590	11.6260	11.63
$	66	Terphenyl-d14	244	21.265	21.250	(0.918)	211640	4.91296	4.913
	67	Butylbenzylphthalate	149	22.179	22.179	(0.958)	119532	4.27566	4.276
	68	Benzo(a)anthracene	228	23.139	23.123	(0.999)	230101	4.83745	4.837
*	69	Chrysene-d12	240	23.162	23.154	(1.000)	130415	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.208	23.201	(1.002)	259345	5.41877	5.419
	72	bis(2-Ethylhexyl)phthalate	149	23.208	23.201	(0.959)	330631	8.16893	8.169
*	134	Di-n-octylphthalate-d4	153	24.192	24.184	(1.000)	227093	4.00000	
	73	Di-n-octylphthalate	149	24.199	24.192	(1.000)	228902	3.99209	3.992
	74	Benzo(b)fluoranthene	252	24.997	24.981	(0.971)	423861	9.58634	9.586
	75	Benzo(k)fluoranthene	252	25.036	25.020	(0.972)	305076	6.73941	6.739
	76	Benzo(a)pyrene	252	25.632	25.616	(0.995)	242853	6.42829	6.428
*	77	Perylene-d12	264	25.748	25.725	(1.000)	125826	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.328	28.305	(1.100)	238874	5.00481	5.005
	79	Dibenzo(a,h)anthracene	278	28.336	28.305	(1.101)	174453	4.24430	4.244
	80	Benzo(g,h,i)perylene	276	29.081	29.058	(1.129)	180451	5.10532	5.105
	90	N-Nitrosodimethylamine	74	4.527	4.535	(0.506)	38187	4.07129	4.071
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	20.754	20.770	(0.896)	449	0.02036	0.02036
	103	Pyridine	79	4.558	4.550	(0.510)	8222	0.30402	0.3040
	105	1-methylnaphthalene	142	13.099	13.099	(1.145)	170487	3.58233	3.582
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.486	16.479	(1.095)	410605	3.45689	3.457

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.997	24.981	(0.971)	688030	15.9842	15.98
120 2,3,4,6-Tetrachlorophenol	232	15.791	15.791	(1.049)	52949	2.74393	2.744

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032310.D
Lab Smp Id: BLA0064-MS1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	57851	-10.92
27 Naphthalene-d8	262858	131429	525716	238919	-9.11
42 Acenaphthene-d10	167543	83772	335086	148197	-11.55
59 Phenanthrene-d10	341039	170520	682078	317977	-6.76
69 Chrysene-d12	222731	111366	445462	130415	-41.45
134 Di-n-octylphthala	333425	166713	666850	227093	-31.89
77 Perylene-d12	152721	76361	305442	125826	-17.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.09
27 Naphthalene-d8	11.44	10.94	11.94	11.44	-0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	-0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.10	0.04
69 Chrysene-d12	23.15	22.65	23.65	23.16	0.03
134 Di-n-octylphthala	24.18	23.68	24.68	24.19	0.03
77 Perylene-d12	25.73	25.23	26.23	25.75	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032310.D

Lab ID: BLA0064-MS1
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 18:32

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

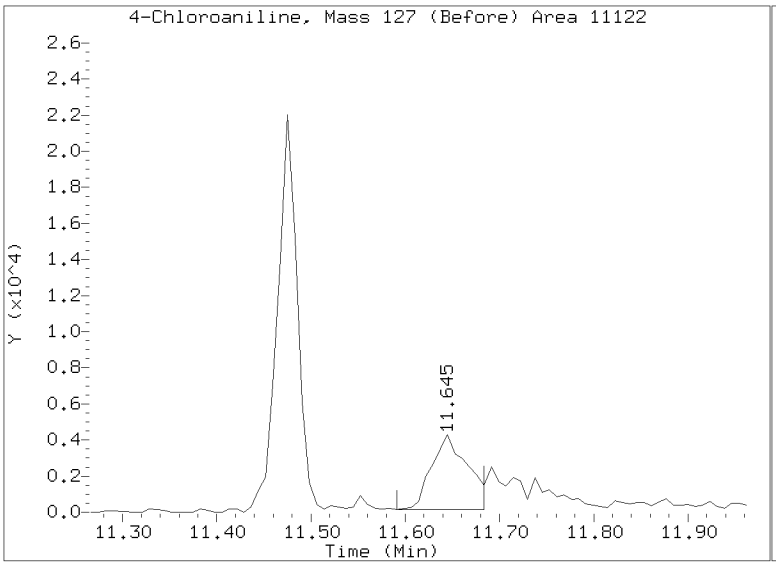
RRT check based on Ccal File: NT1402032303.D

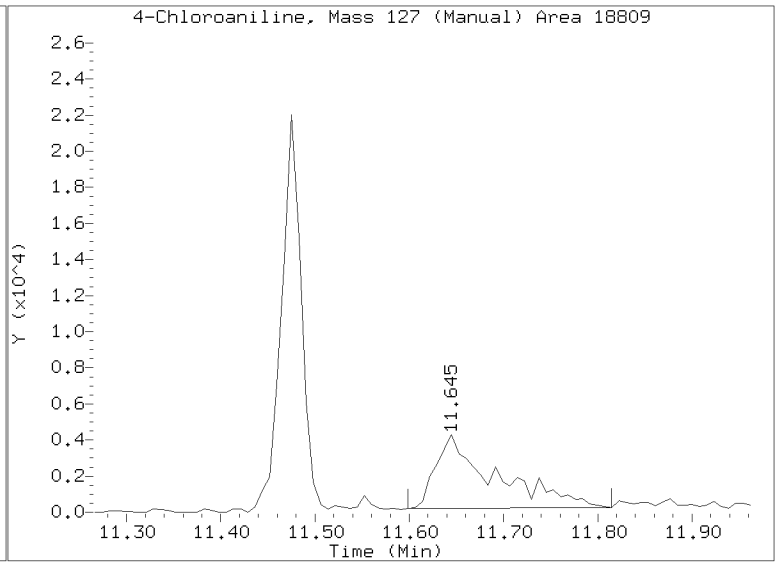
On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

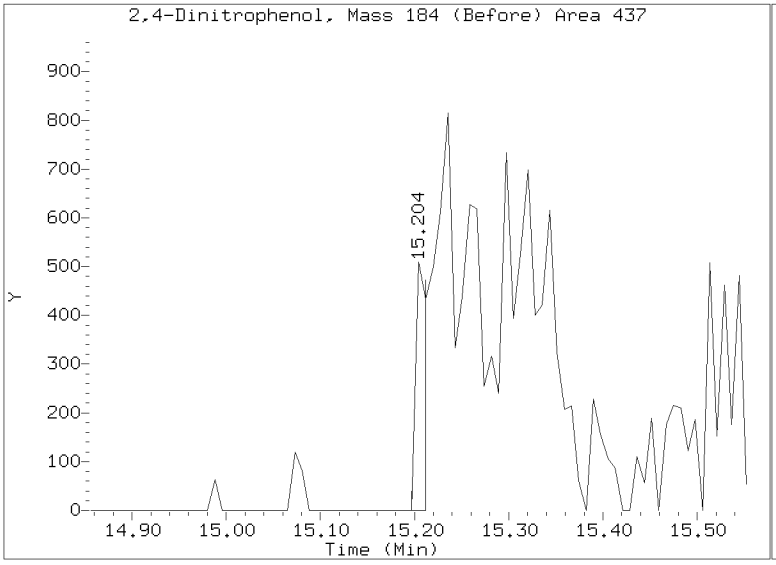
* Only compounds listed in the work order have been verified by the analyst *

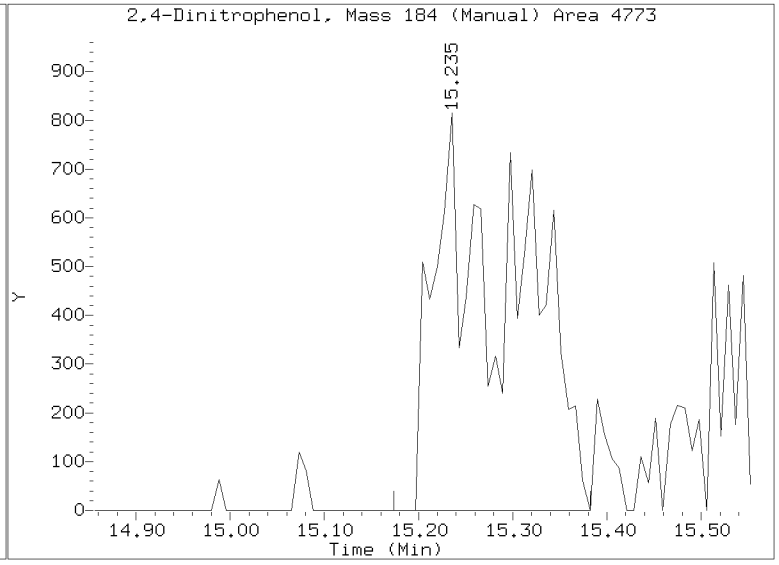
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032310.D
Injection Date: 03-FEB-2023 18:32
Lab ID:BLA0064-MS1 Client ID:
Report Date: 02/04/2023 10:28









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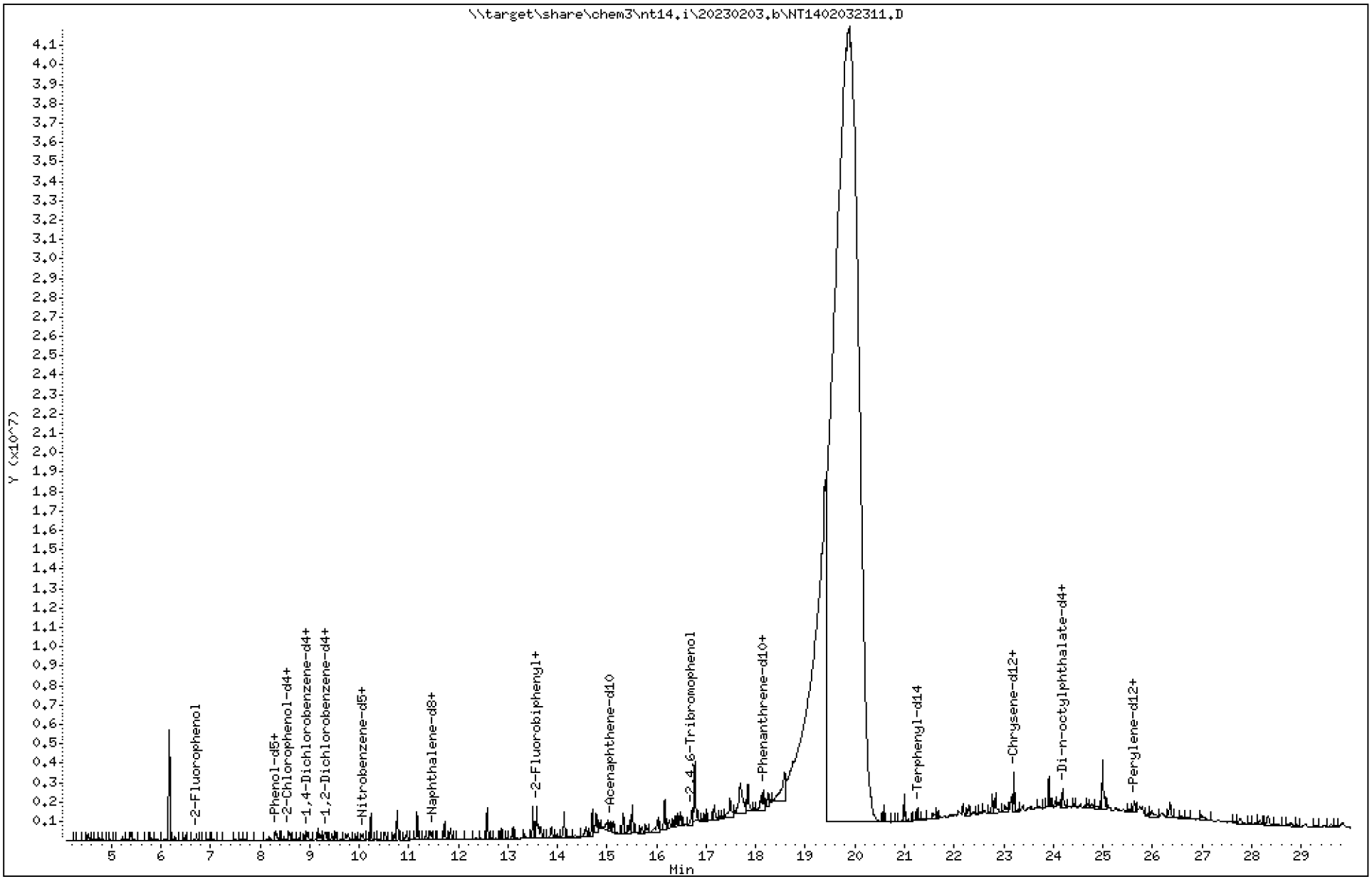
Date : 03-FEB-2023 19:09
Client ID:
Sample Info: BLA0064-MSD1

Instrument: nt14.i
Operator: DSD
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

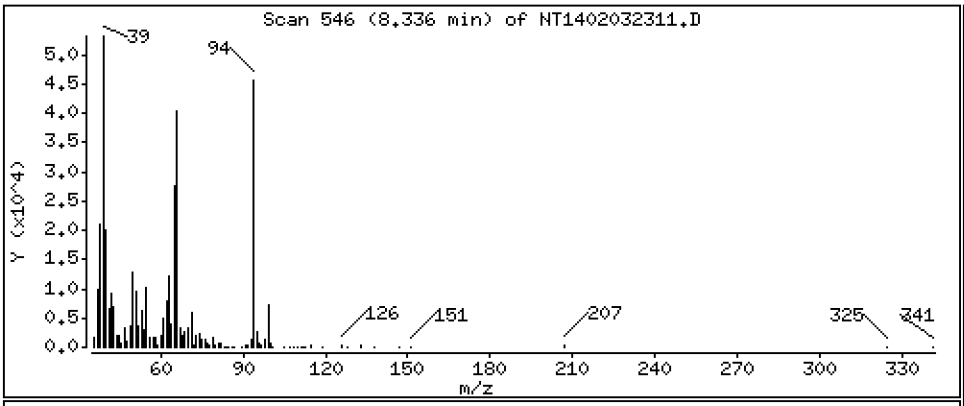
Operator: DSD

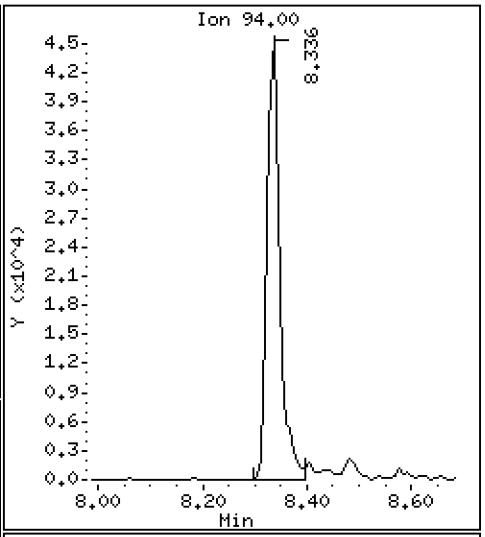
Column phase: ZB-5msi

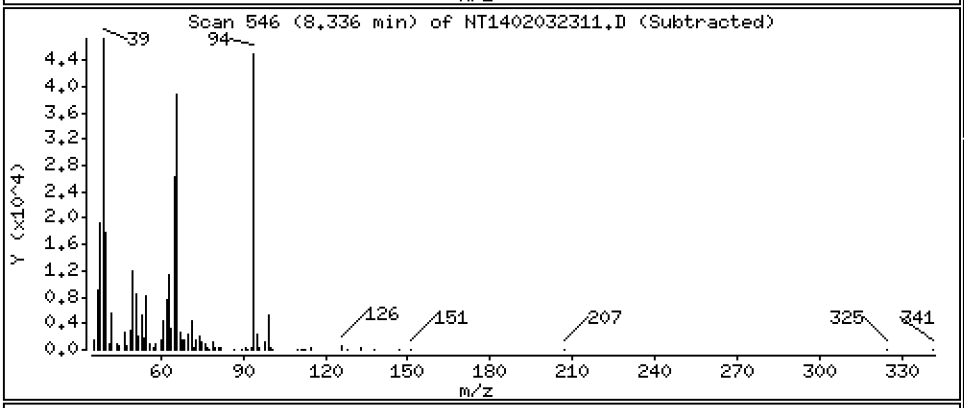
Column diameter: 0.25

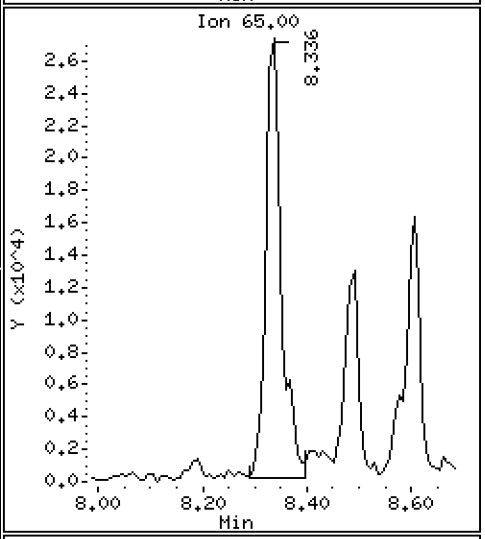
3 Phenol

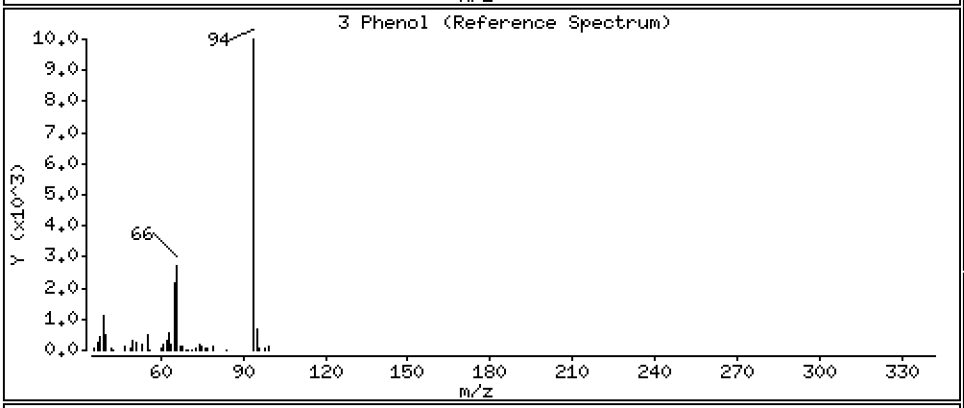
Concentration: 3.082 ug/mL

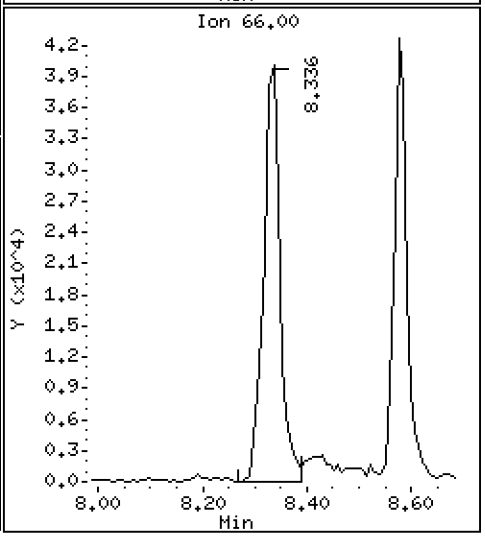


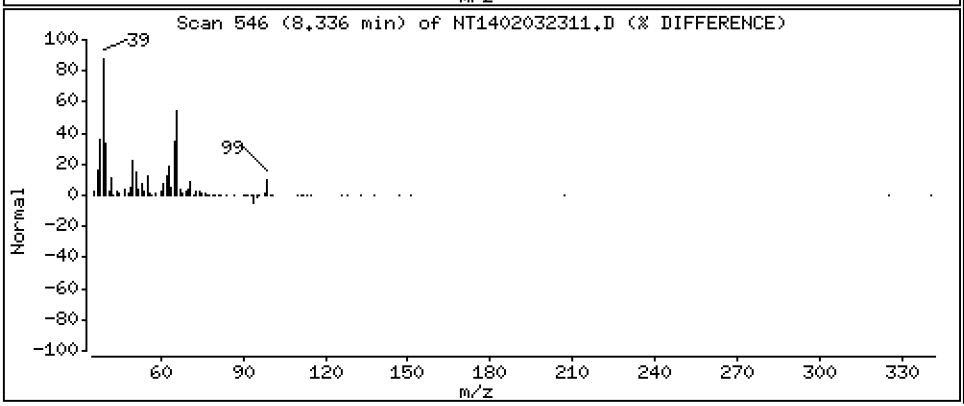












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

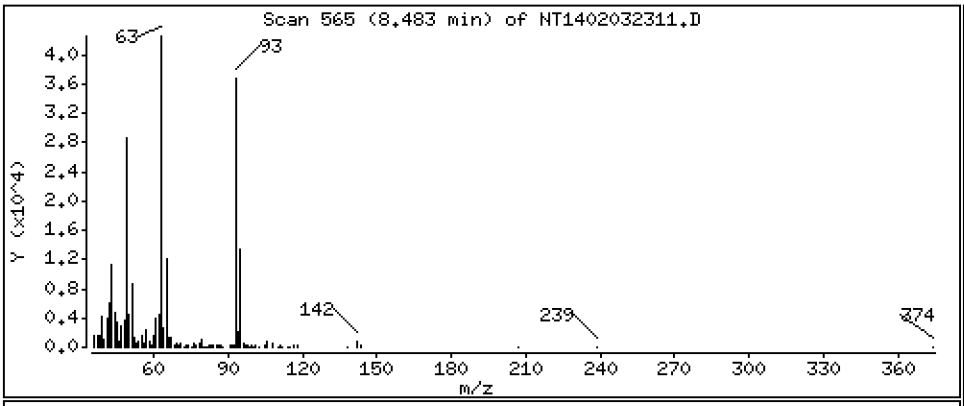
Operator: DSD

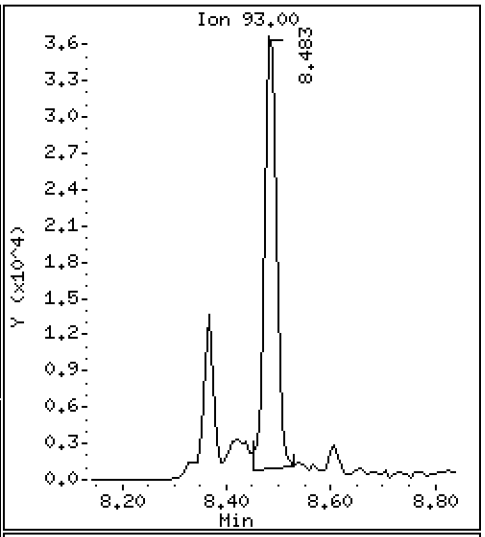
Column phase: ZB-5msi

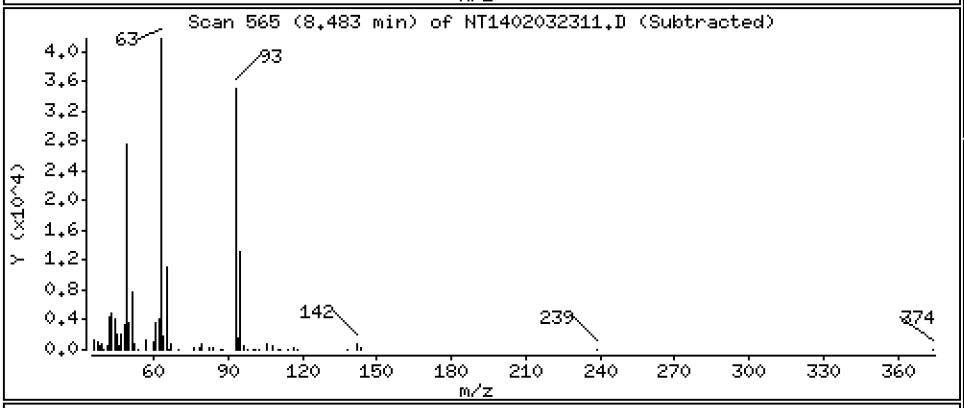
Column diameter: 0.25

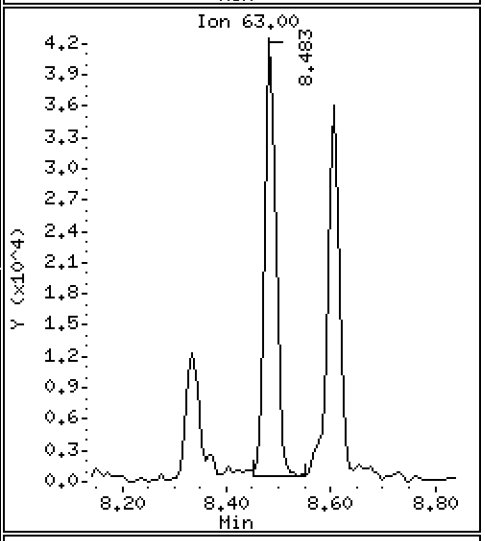
4 Bis(2-Chloroethyl)ether

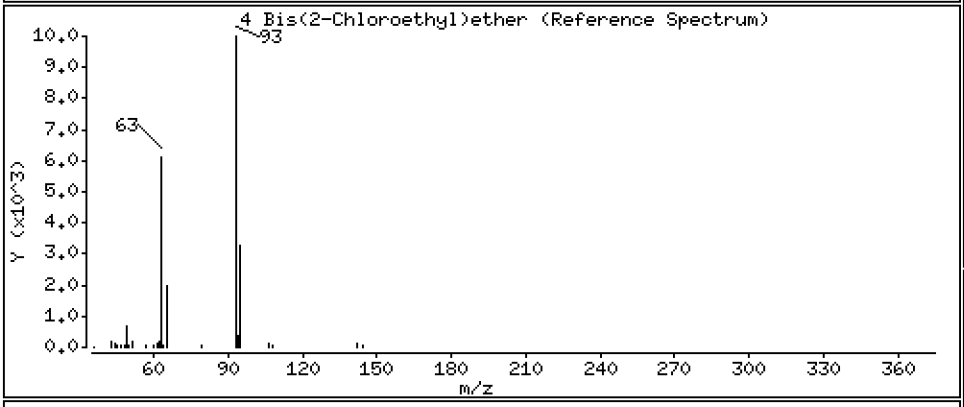
Concentration: 4.070 ug/mL

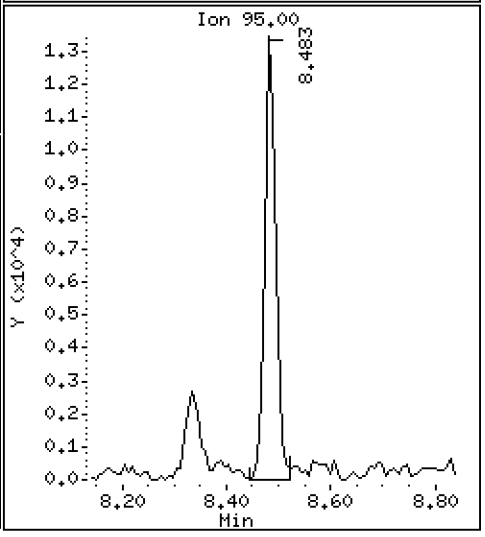


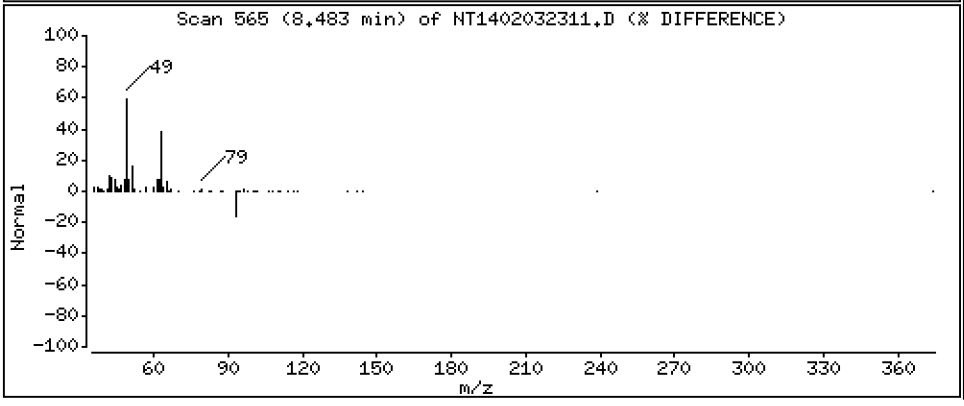












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

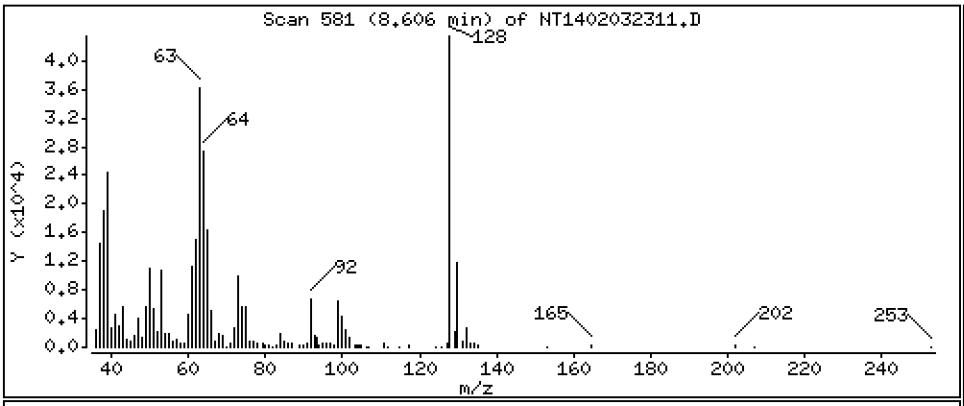
Operator: DSD

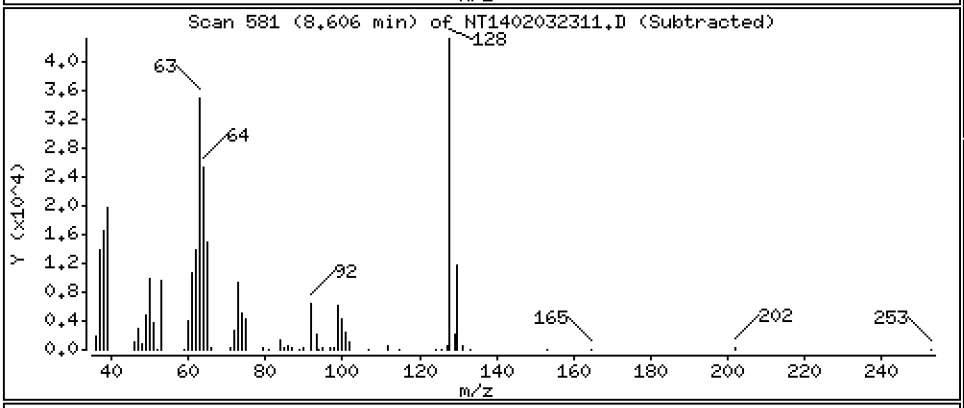
Column phase: ZB-5msi

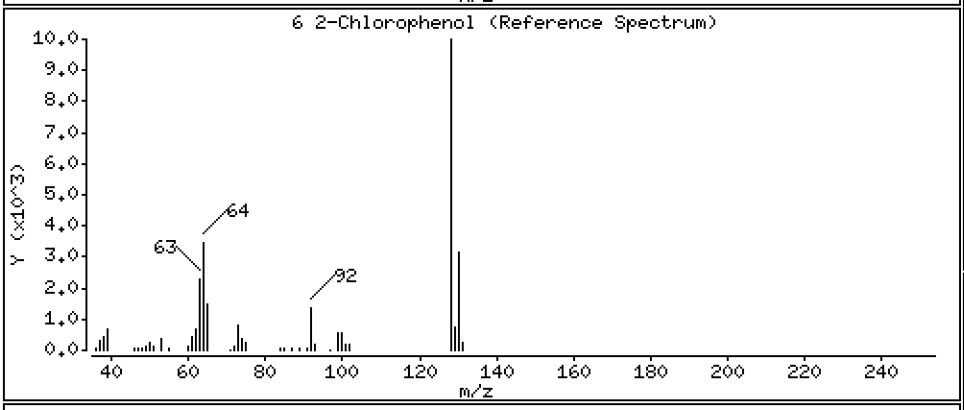
Column diameter: 0.25

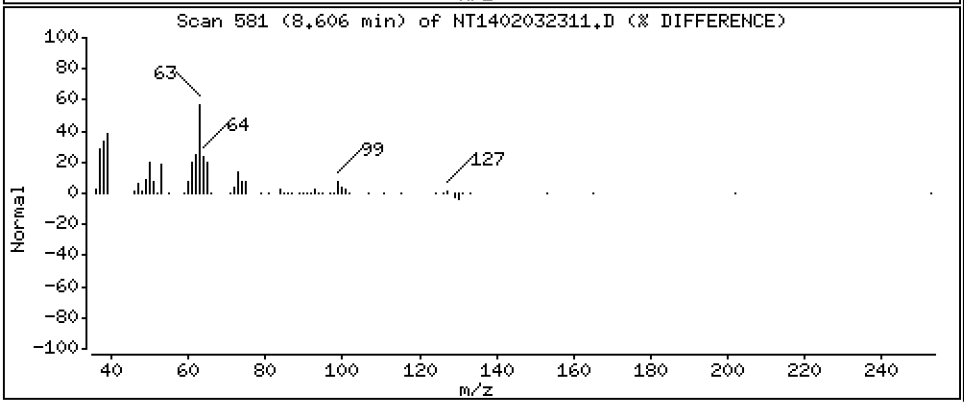
6 2-Chlorophenol

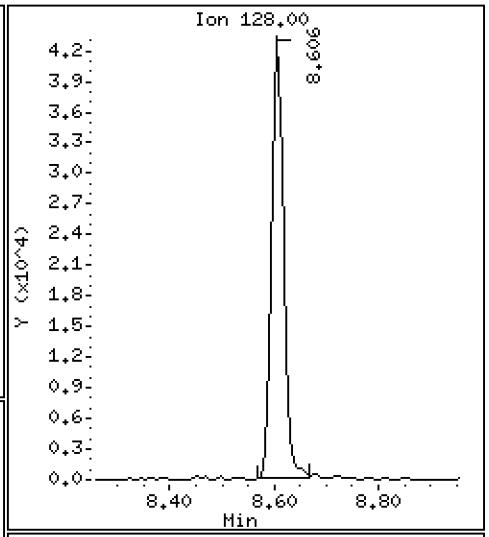
Concentration: 3.257 ug/mL

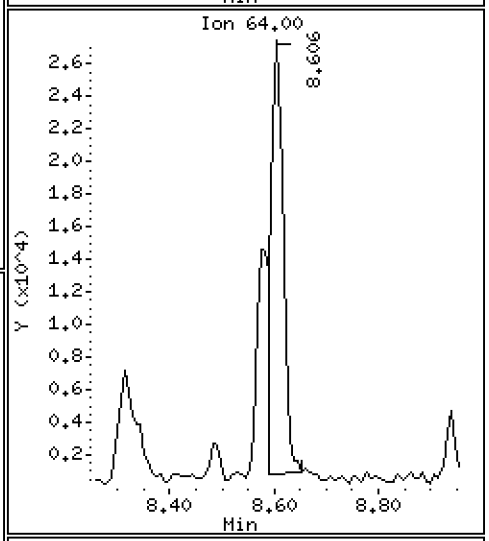


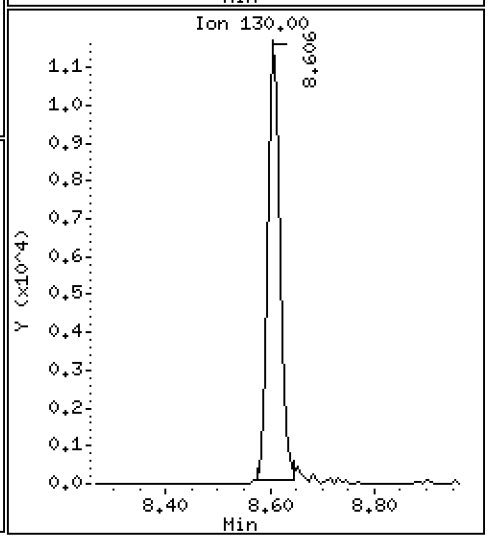












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

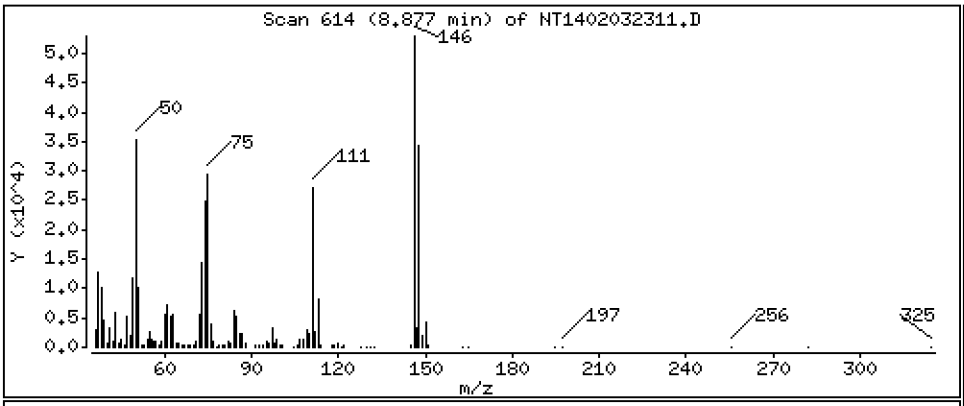
Operator: DSD

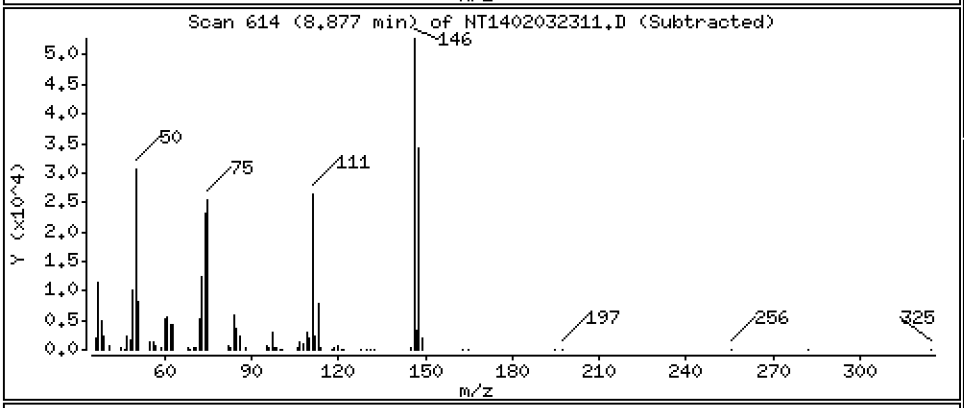
Column phase: ZB-5msi

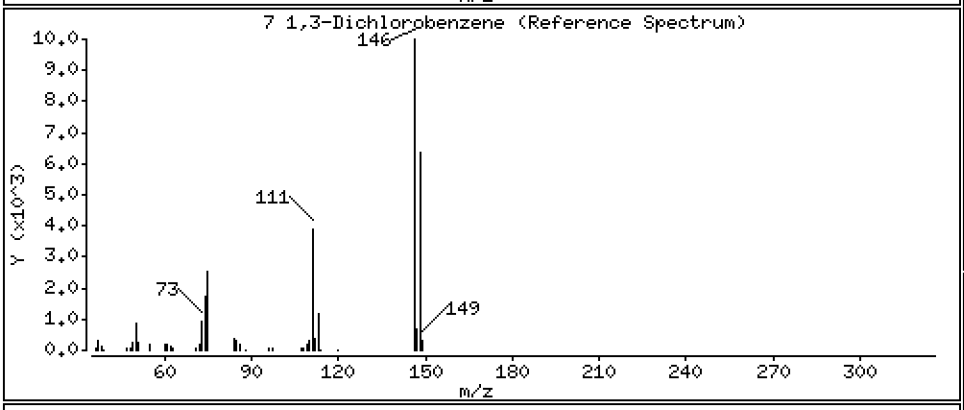
Column diameter: 0.25

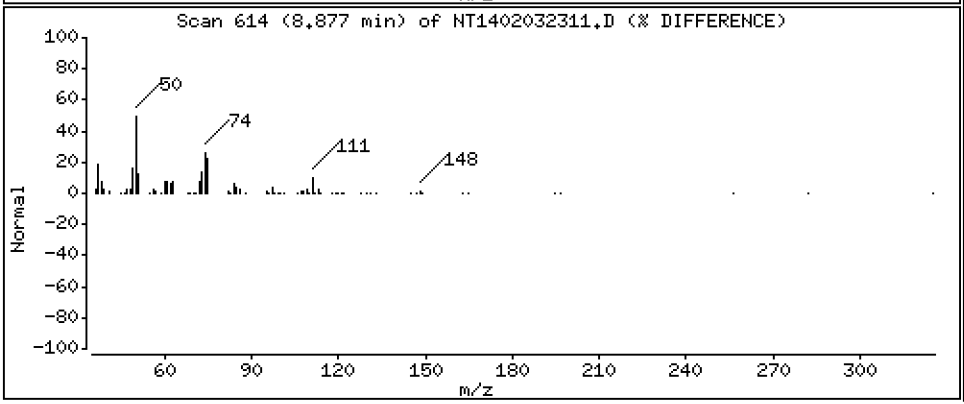
7 1,3-Dichlorobenzene

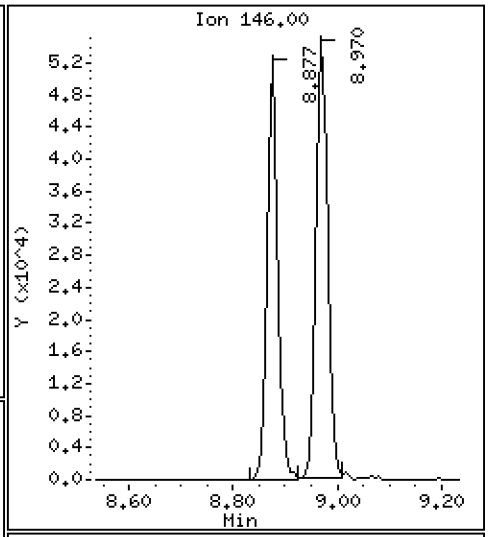
Concentration: 3.438 ug/mL

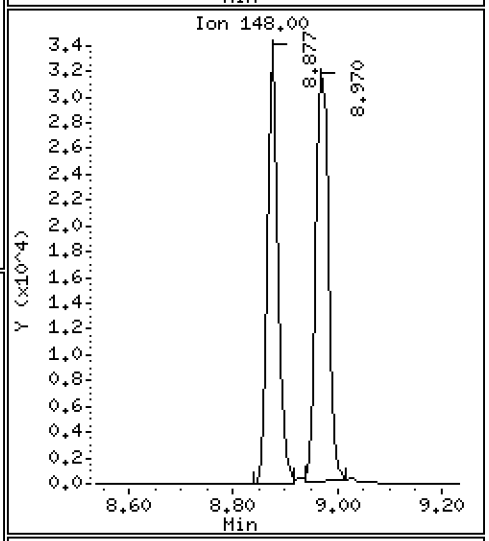


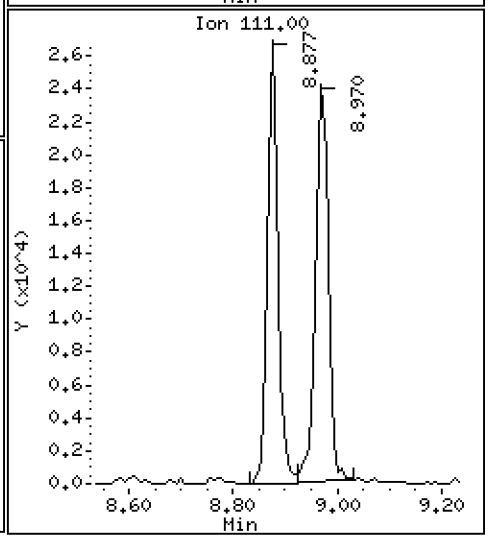












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

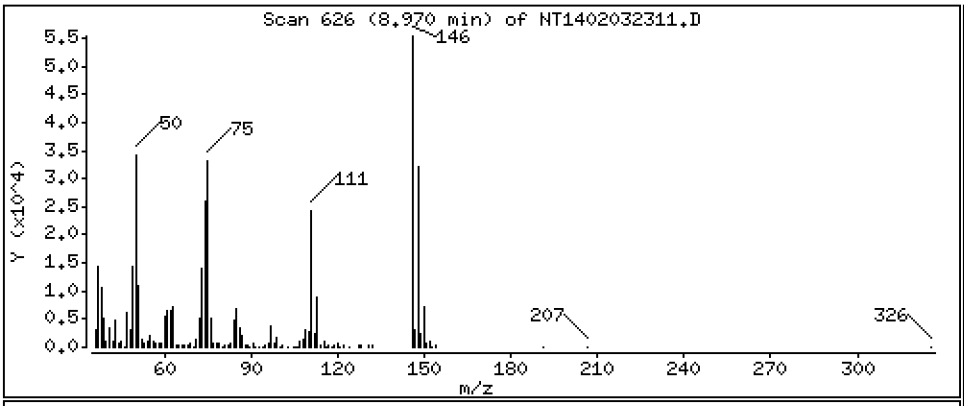
Operator: DSD

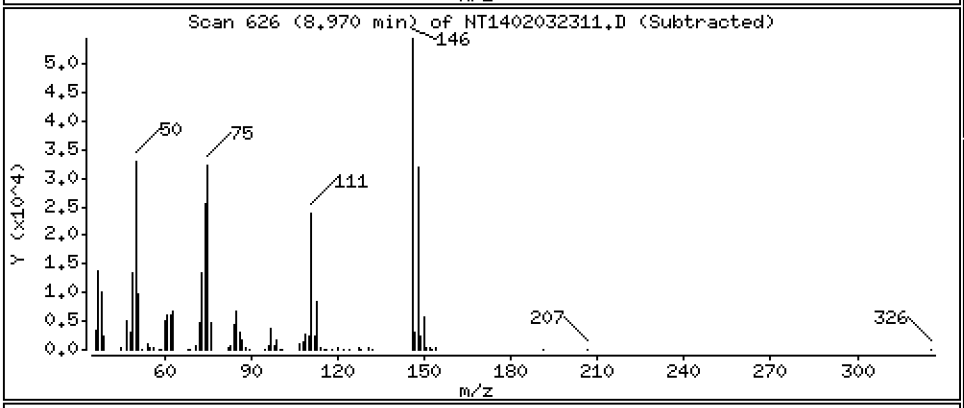
Column phase: ZB-5msi

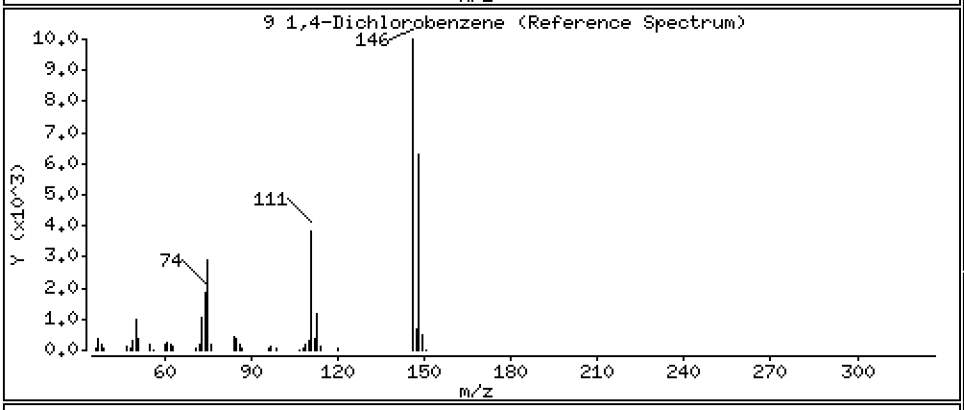
Column diameter: 0.25

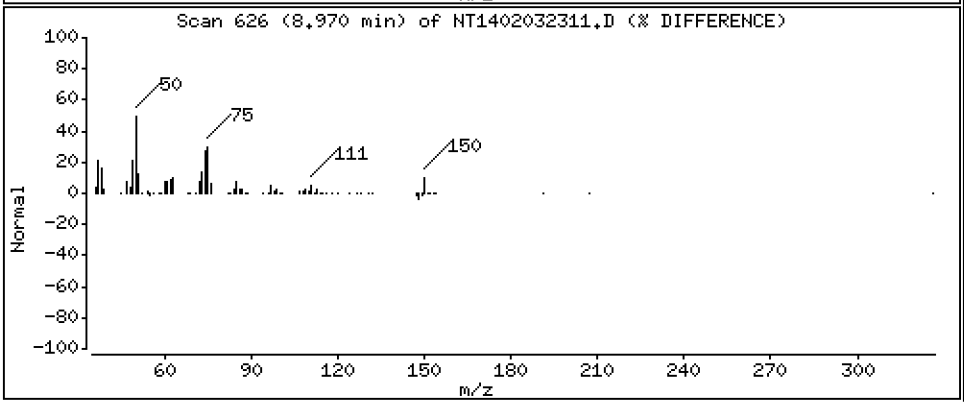
9 1,4-Dichlorobenzene

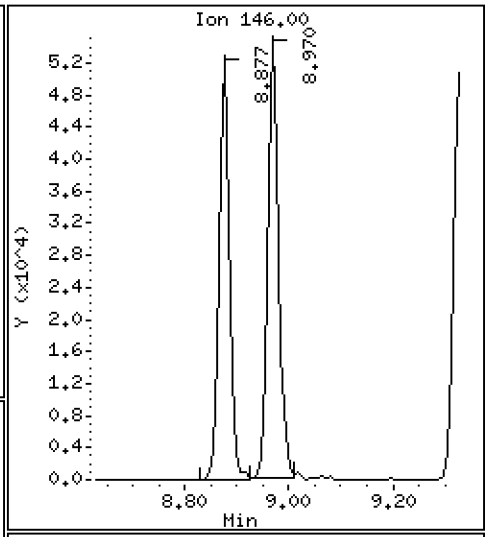
Concentration: 3.561 ug/mL

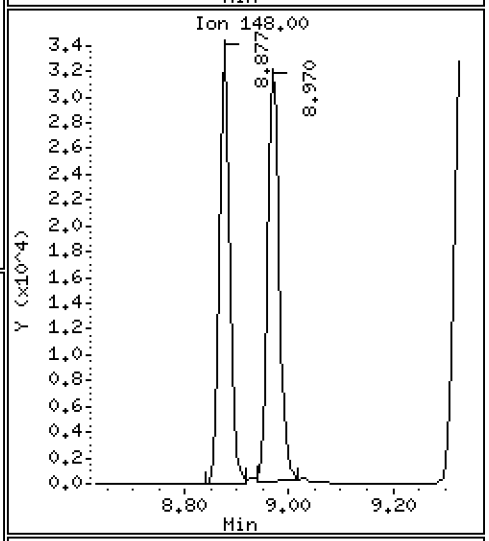


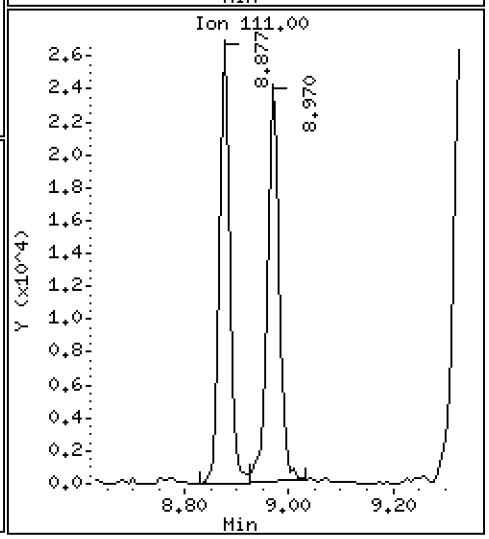












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

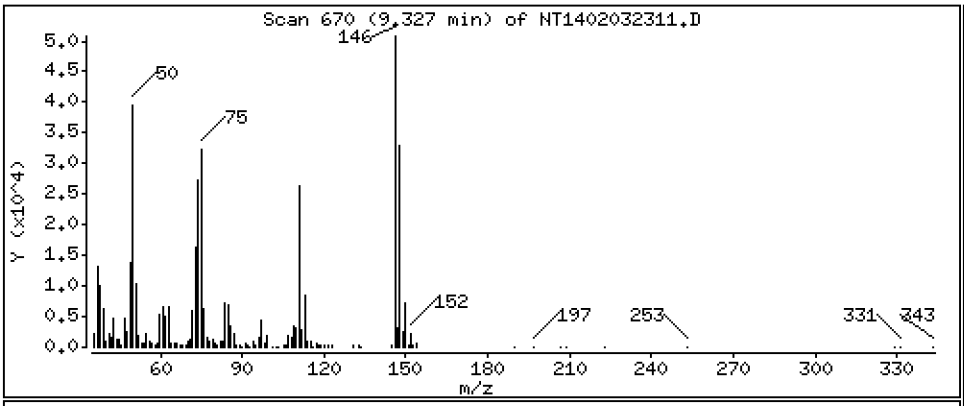
Operator: DSD

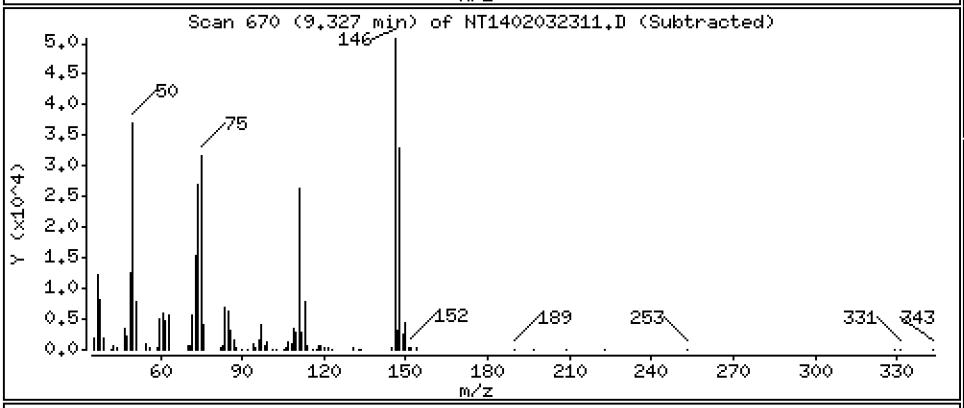
Column phase: ZB-5msi

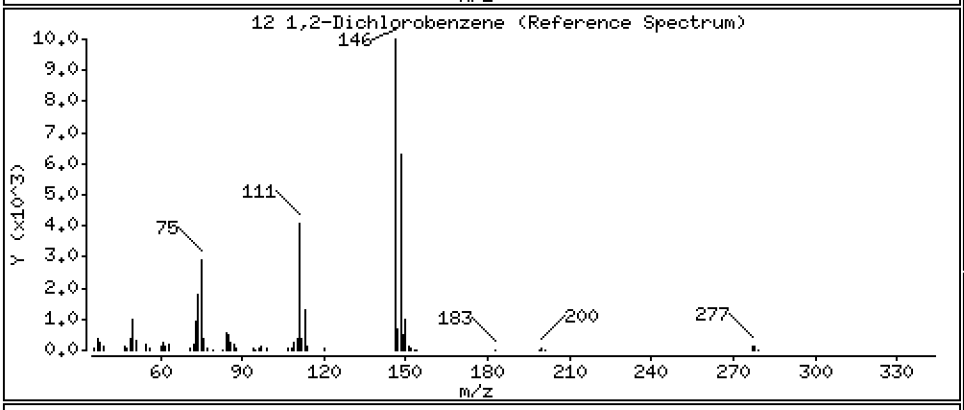
Column diameter: 0.25

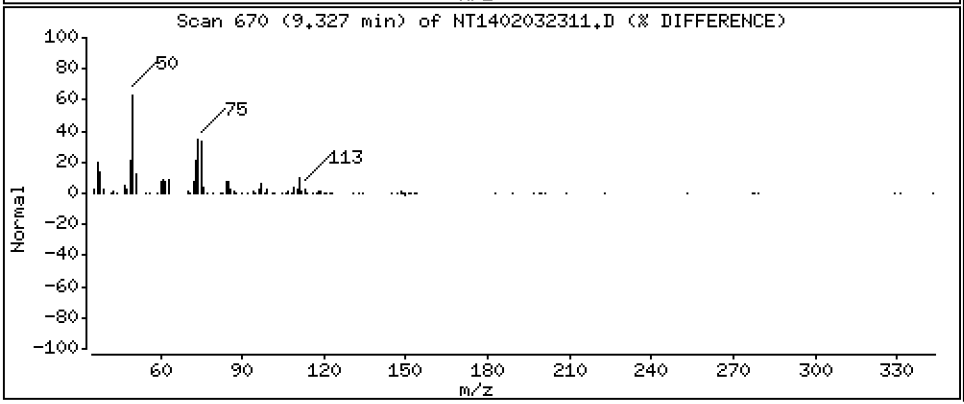
12 1,2-Dichlorobenzene

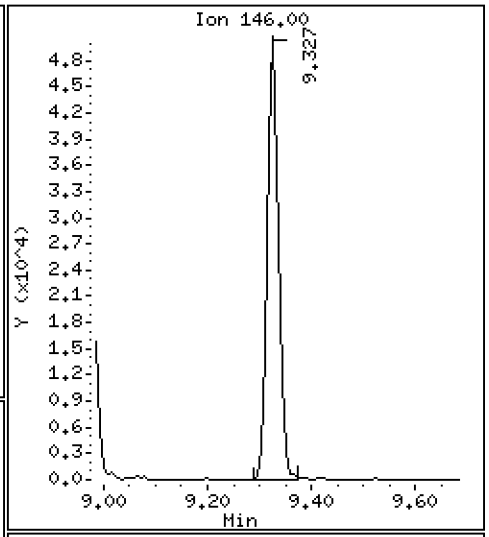
Concentration: 3.376 ug/mL

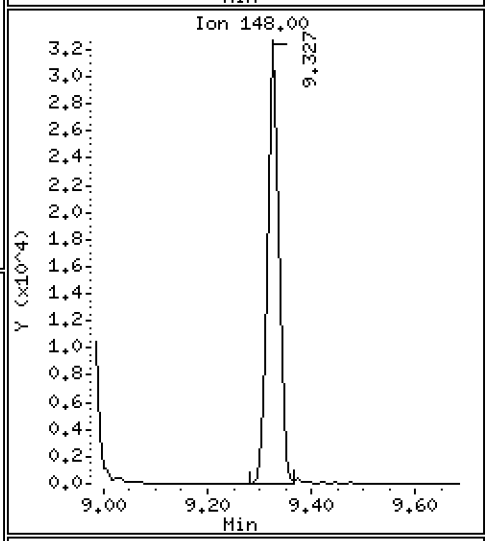


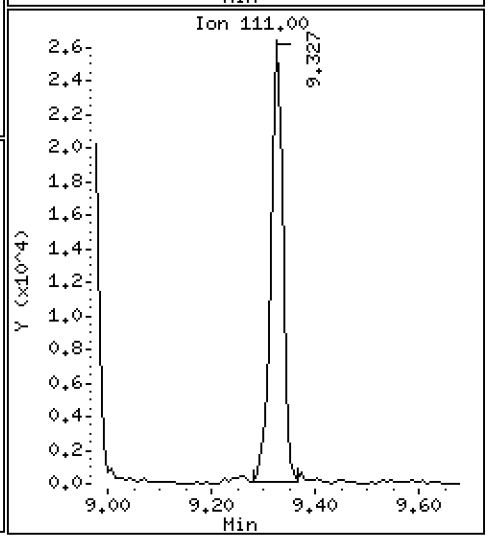












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

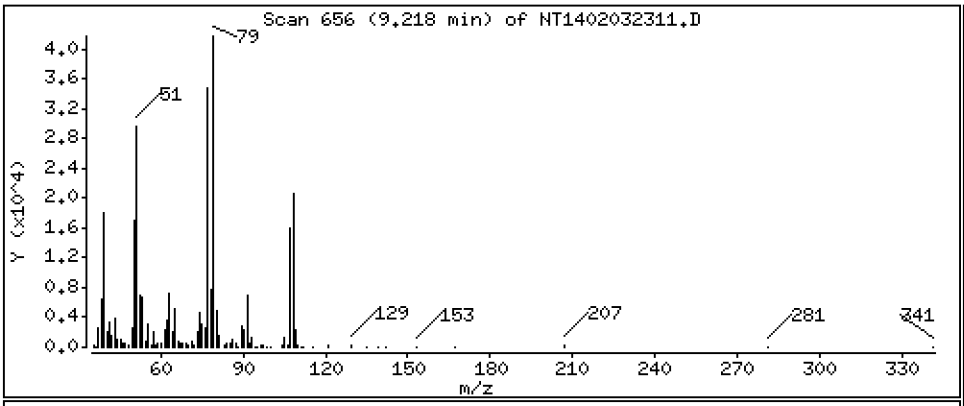
Operator: DSD

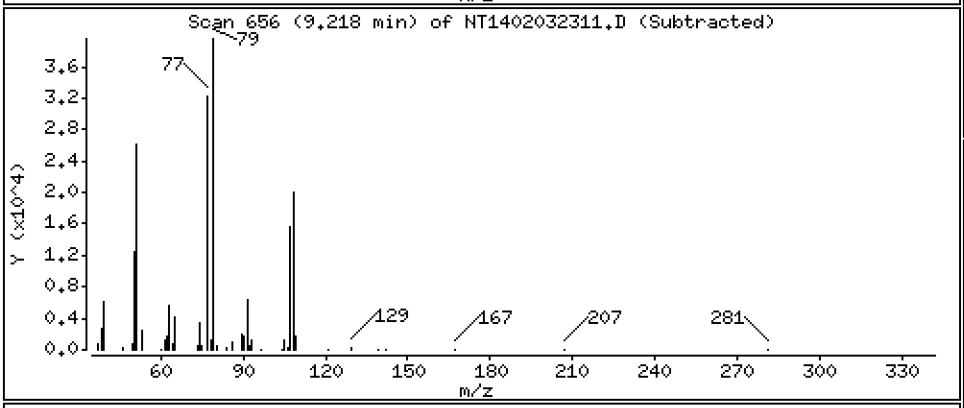
Column phase: ZB-5msi

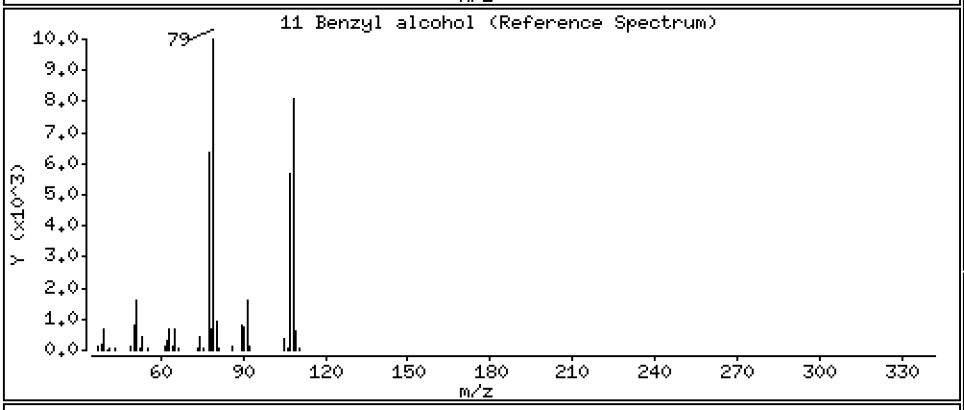
Column diameter: 0.25

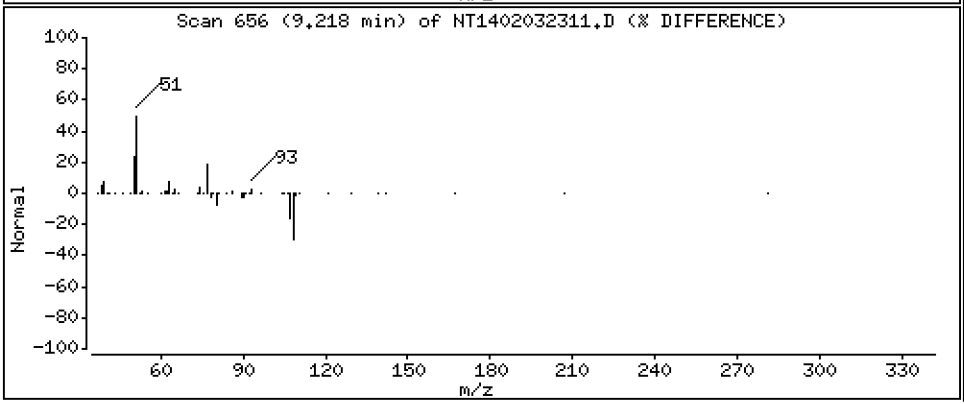
11 Benzyl alcohol

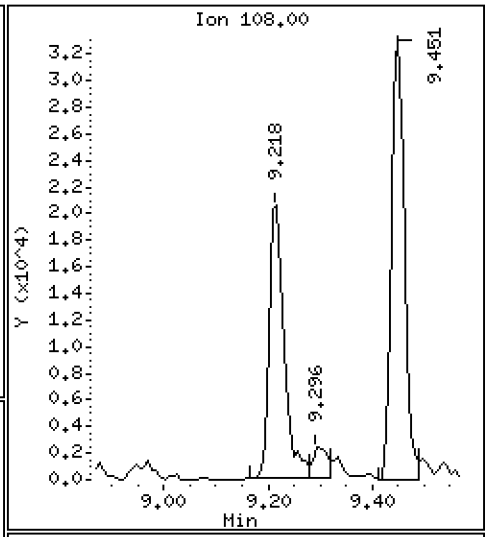
Concentration: 3.374 ug/mL

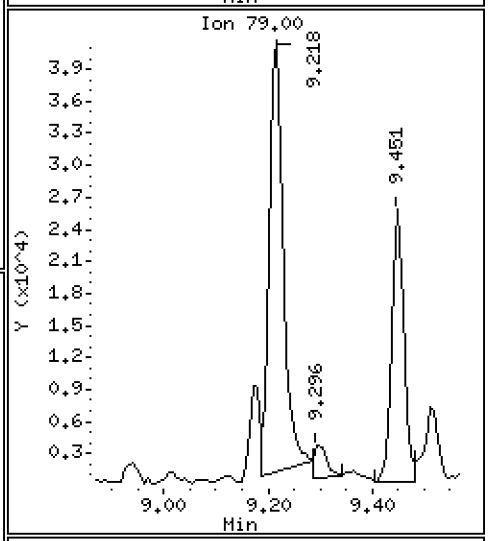


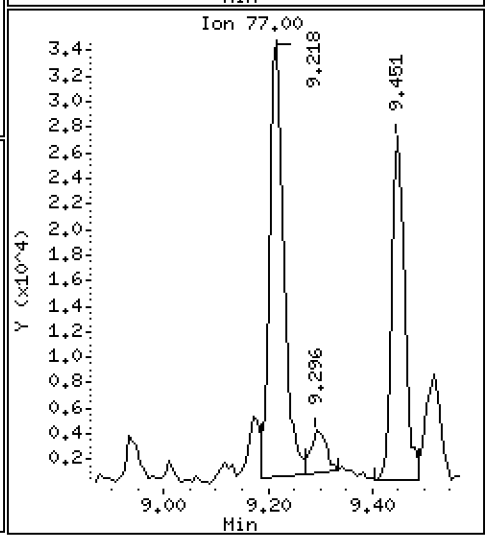












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

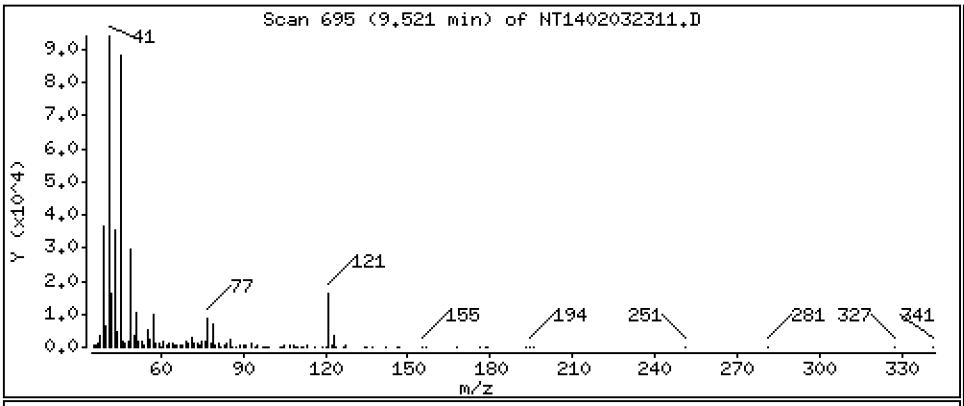
Operator: DSD

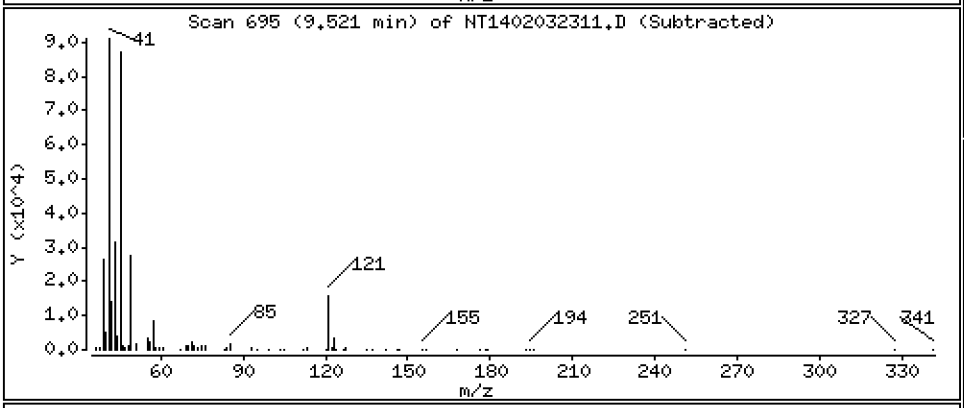
Column phase: ZB-5msi

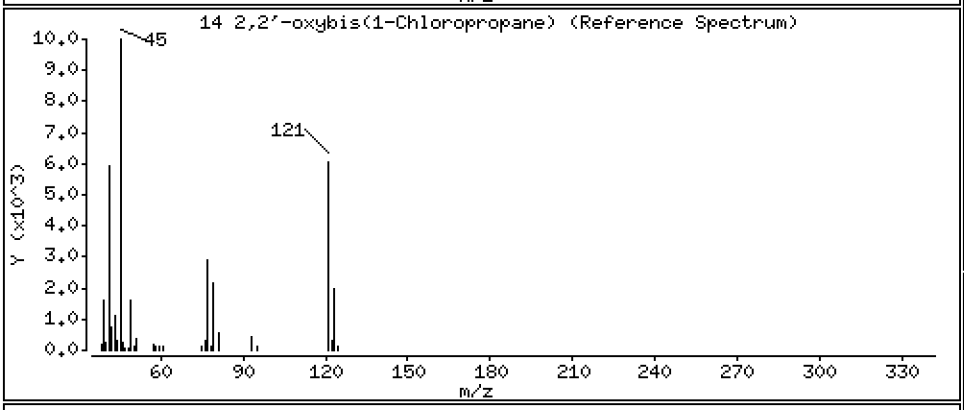
Column diameter: 0.25

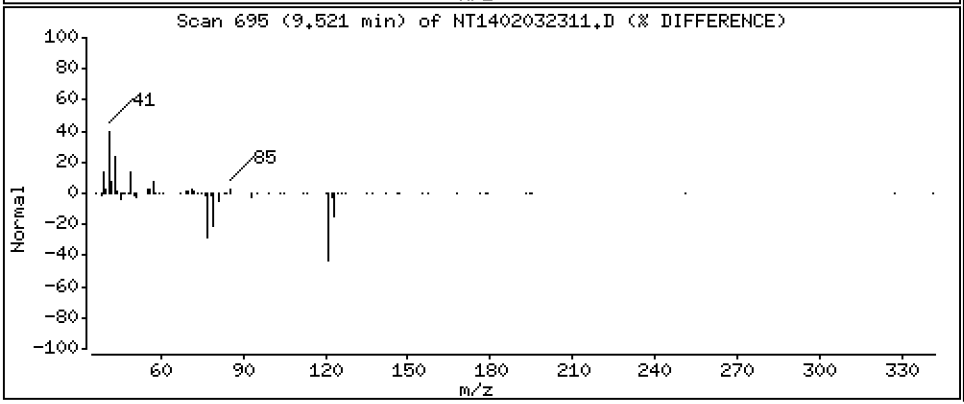
14 2,2'-oxybis(1-Chloropropane)

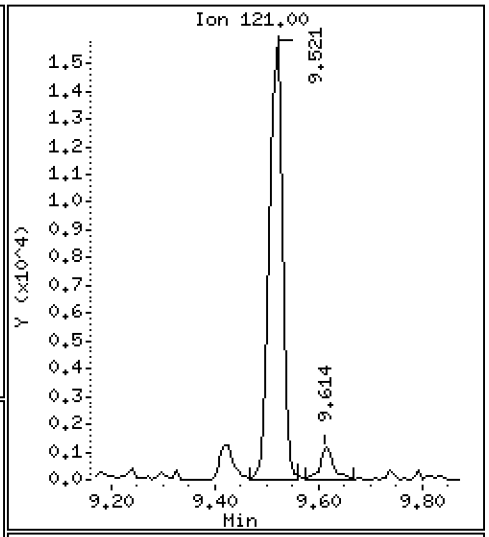
Concentration: 4.296 ug/mL

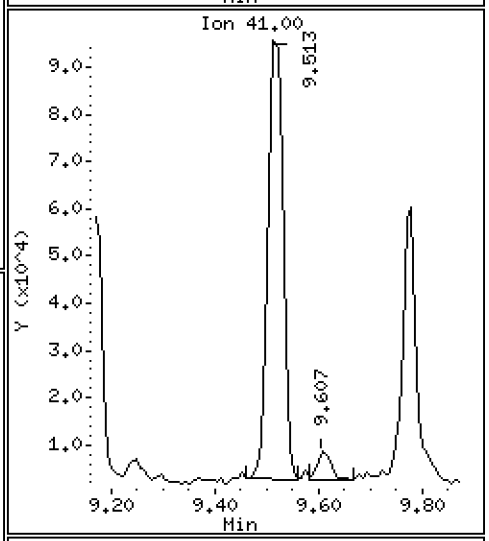


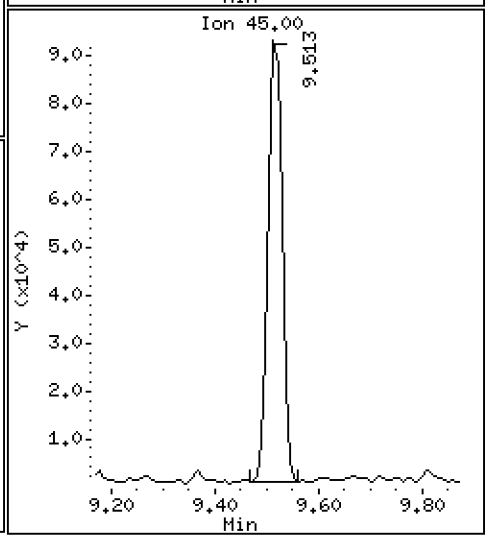












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

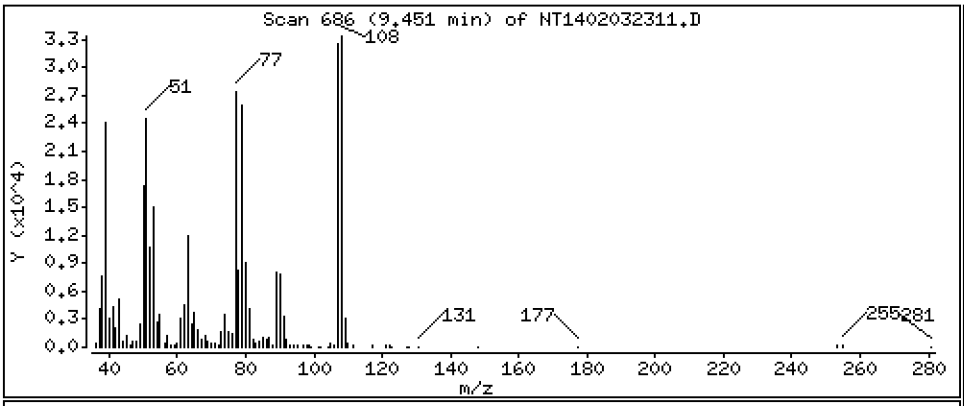
Operator: DSD

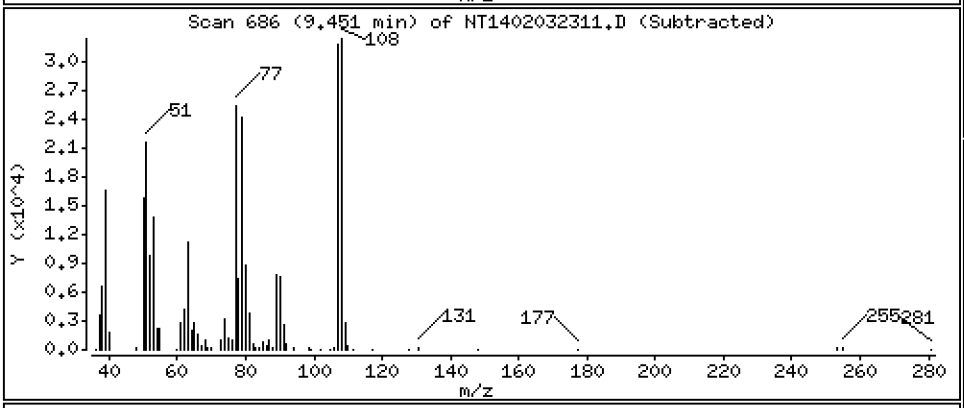
Column phase: ZB-5msi

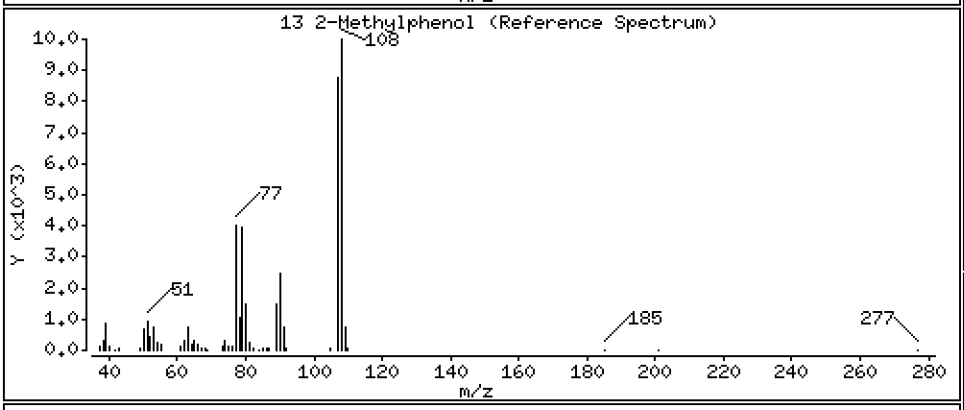
Column diameter: 0.25

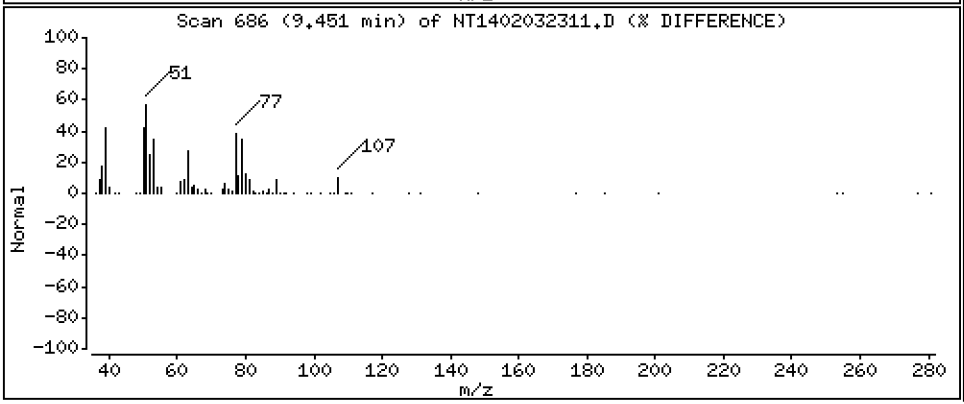
13 2-Methylphenol

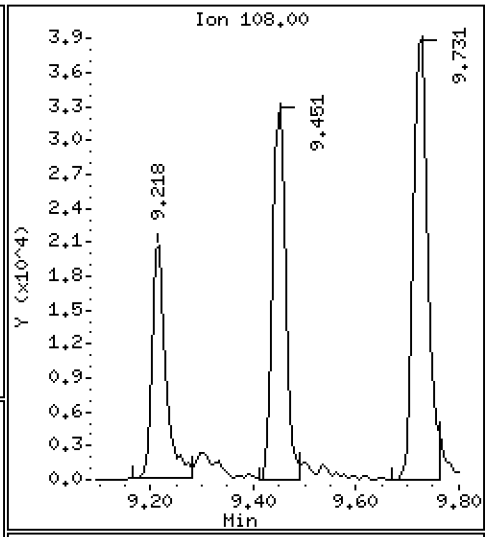
Concentration: 3.003 ug/mL

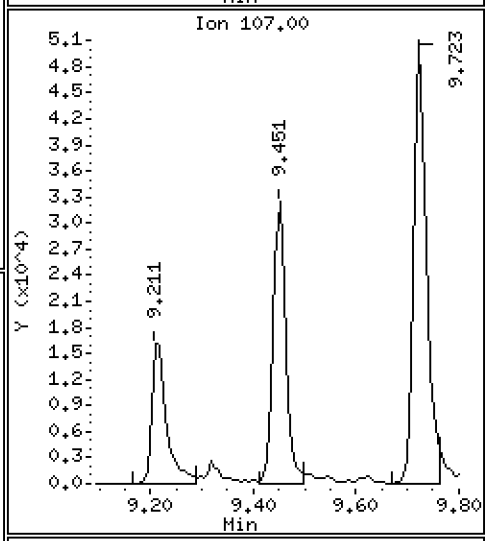


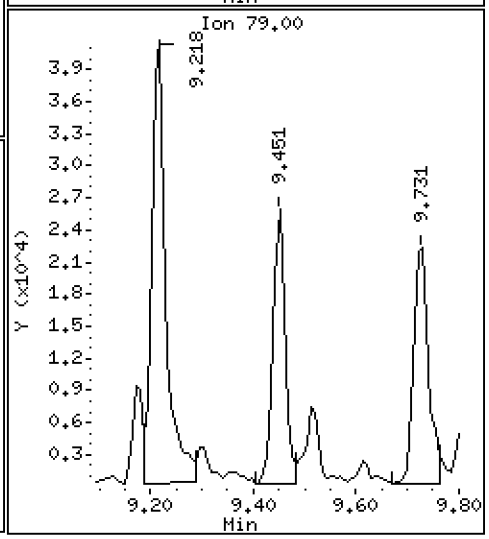












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

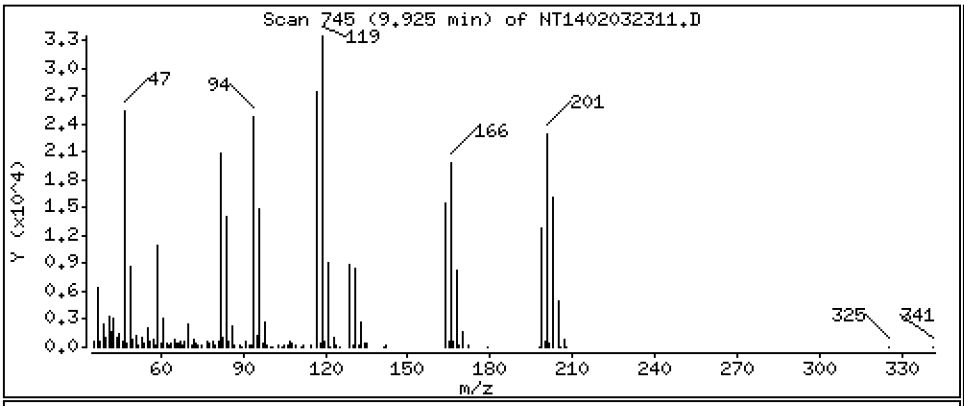
Operator: DSD

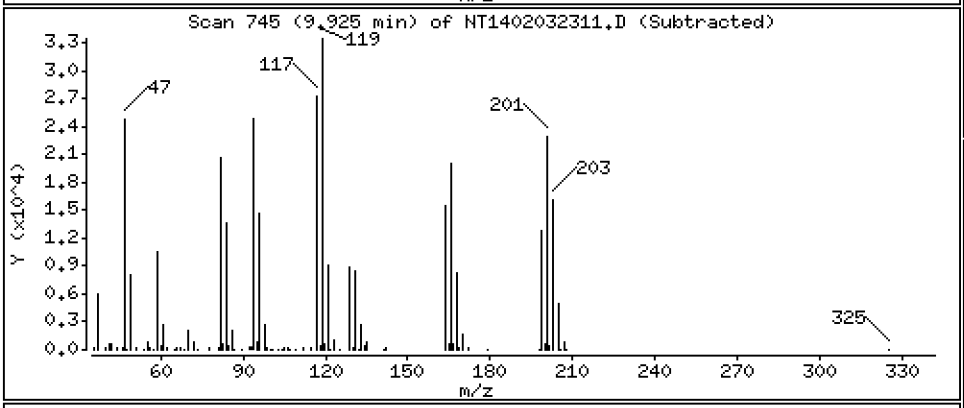
Column phase: ZB-5msi

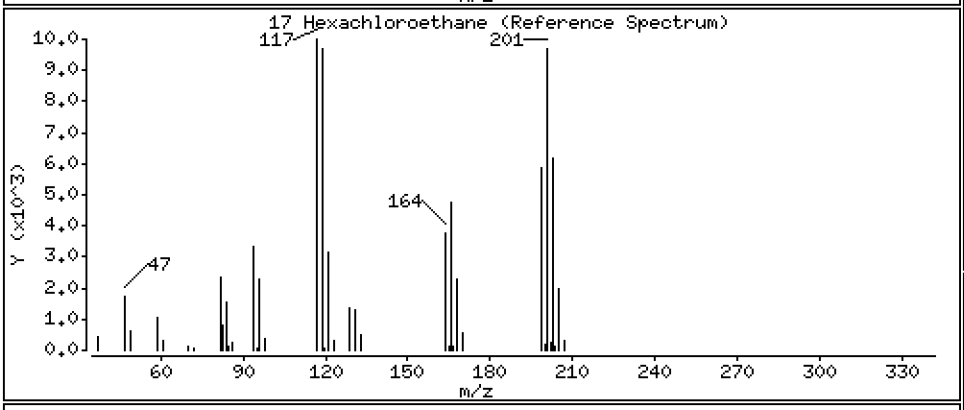
Column diameter: 0.25

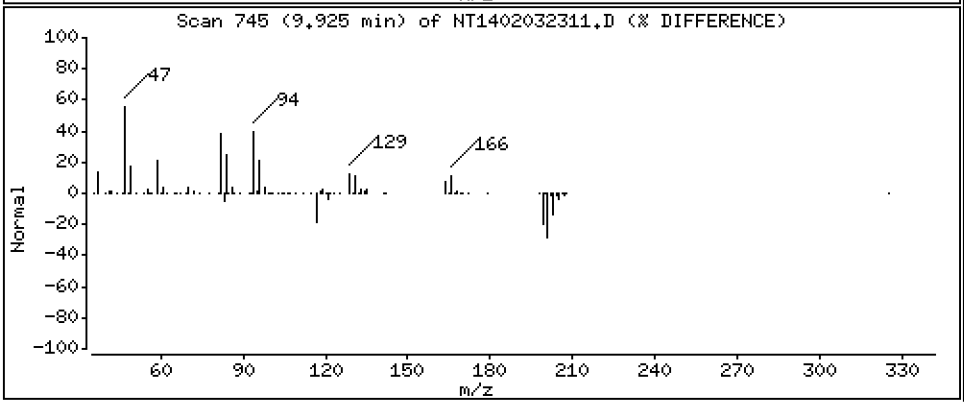
17 Hexachloroethane

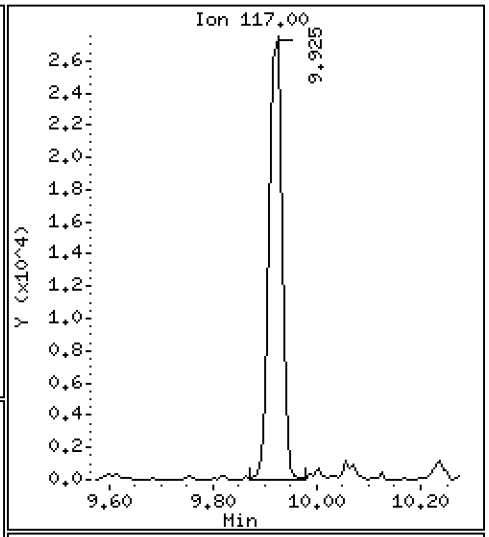
Concentration: 3.357 ug/mL

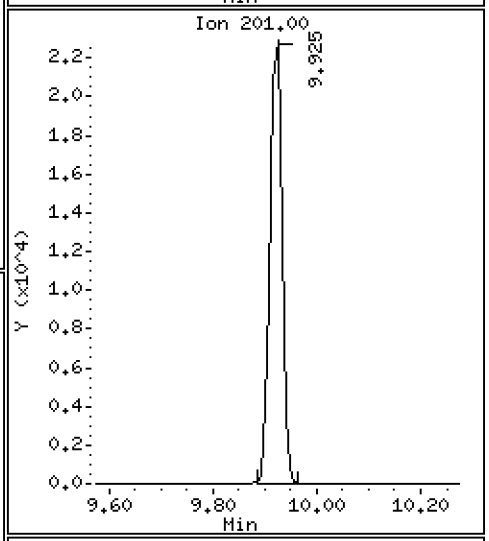


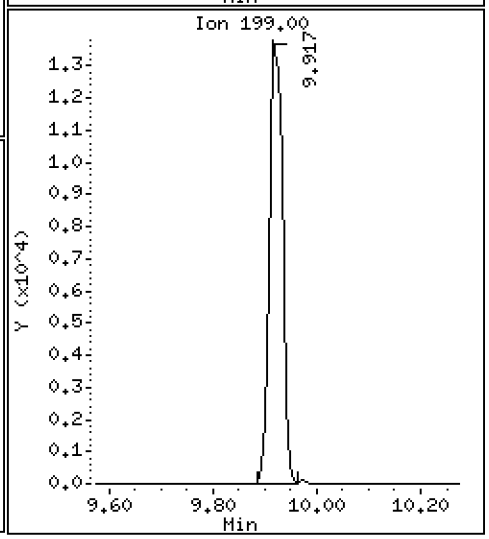












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

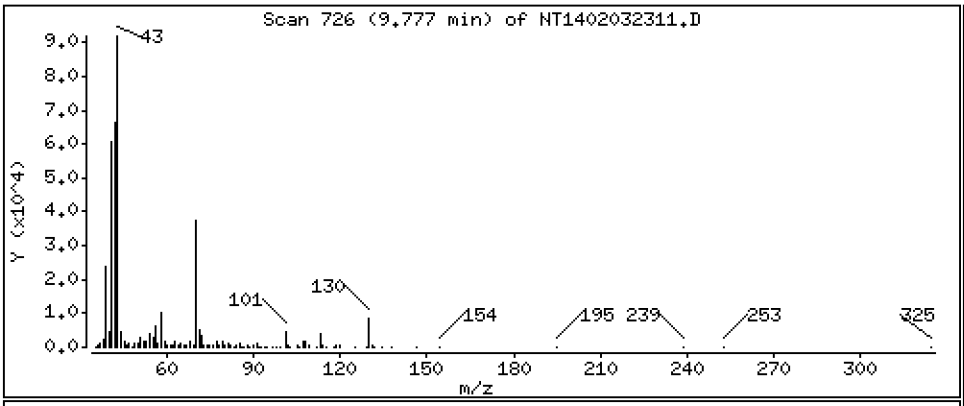
Operator: DSD

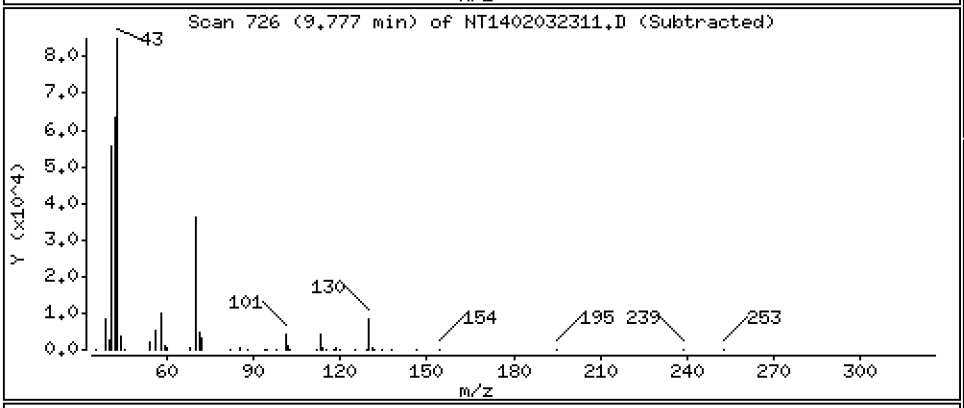
Column phase: ZB-5msi

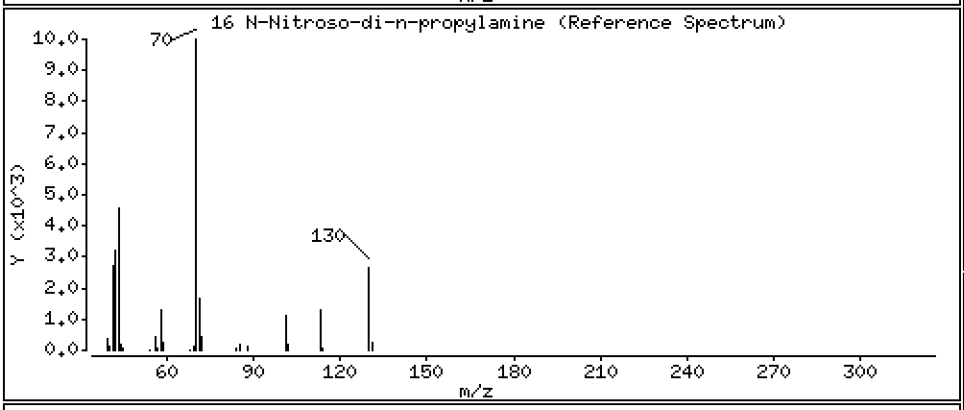
Column diameter: 0.25

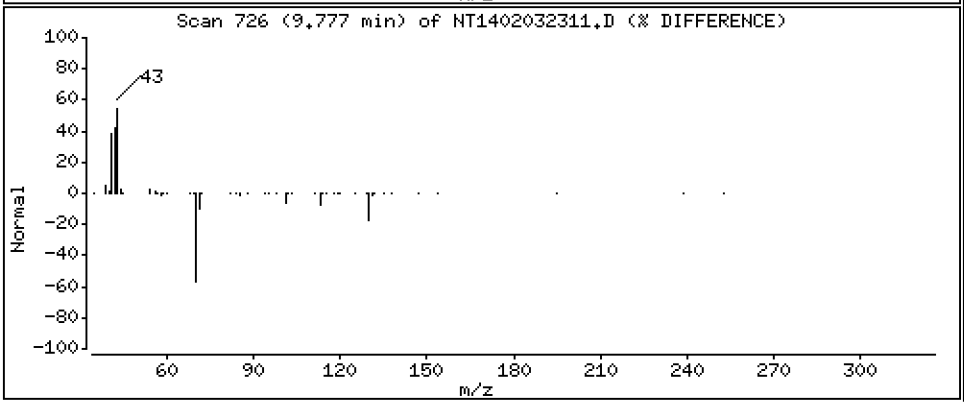
16 N-Nitroso-di-n-propylamine

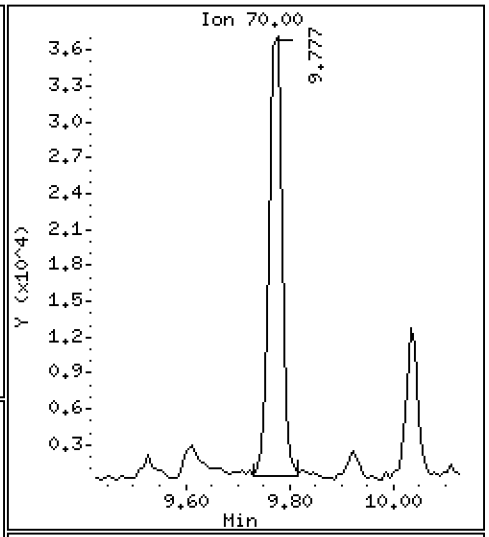
Concentration: 3.776 ug/mL

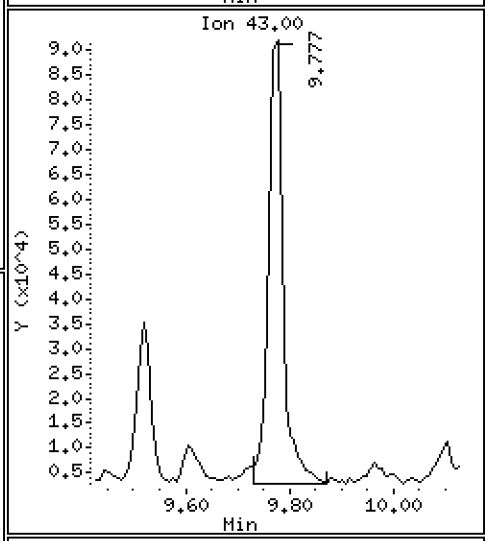


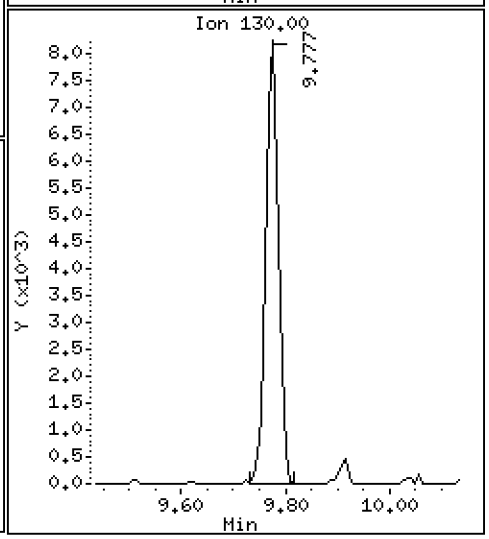












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

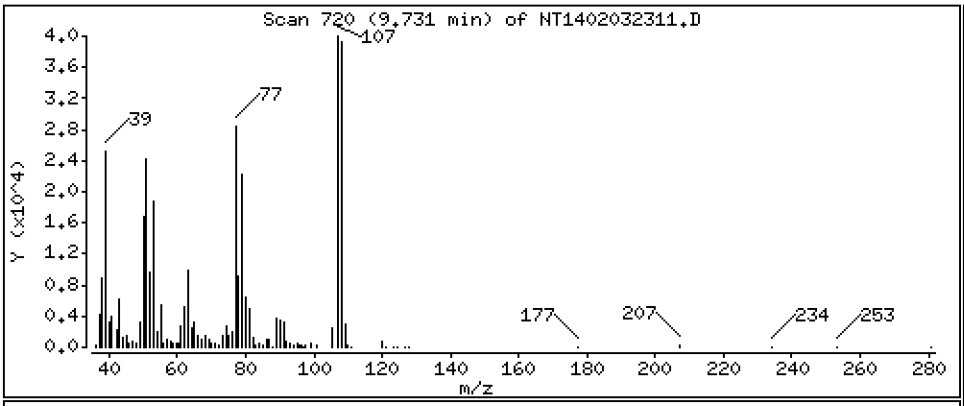
Operator: DSD

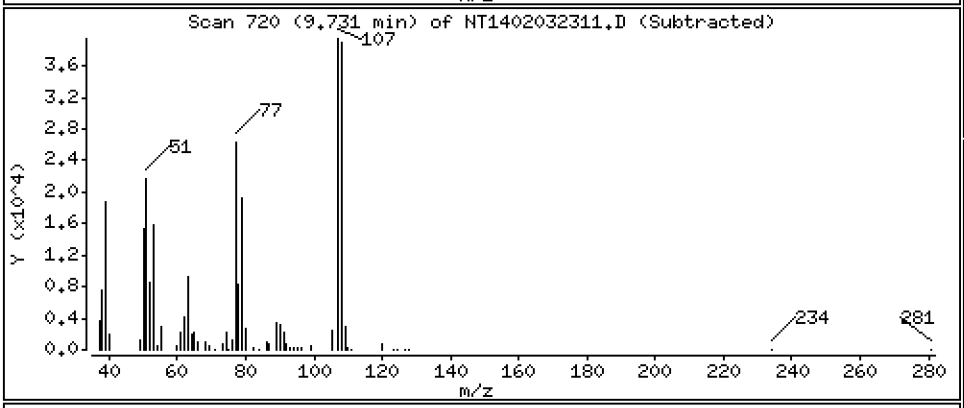
Column phase: ZB-5msi

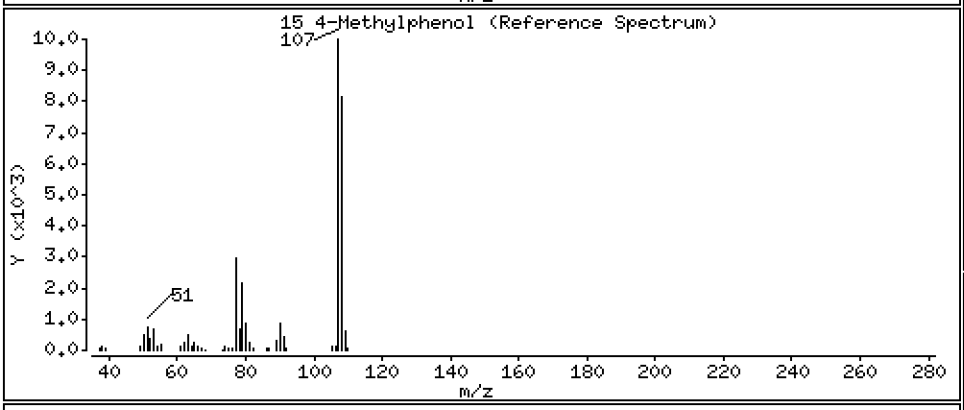
Column diameter: 0.25

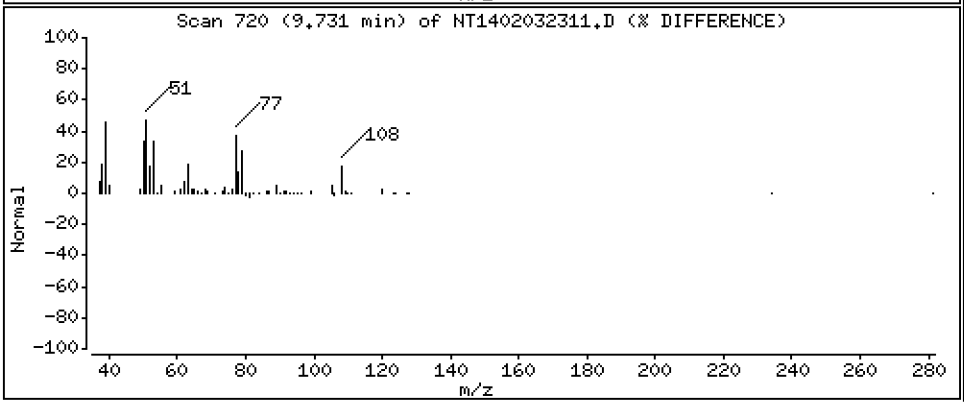
15 4-Methylphenol

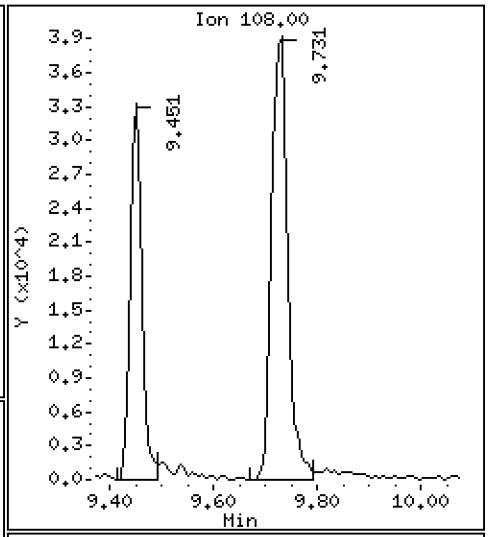
Concentration: 3.984 ug/mL

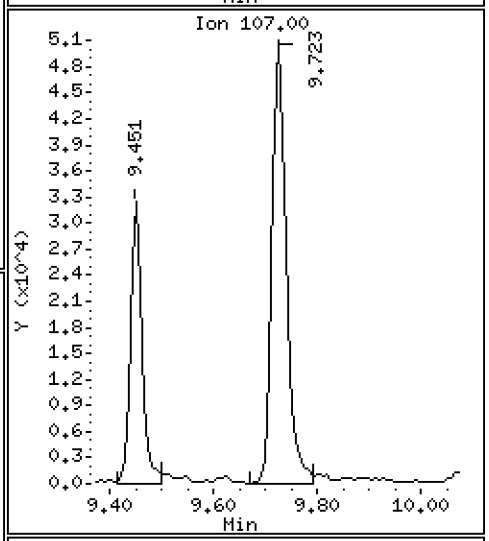


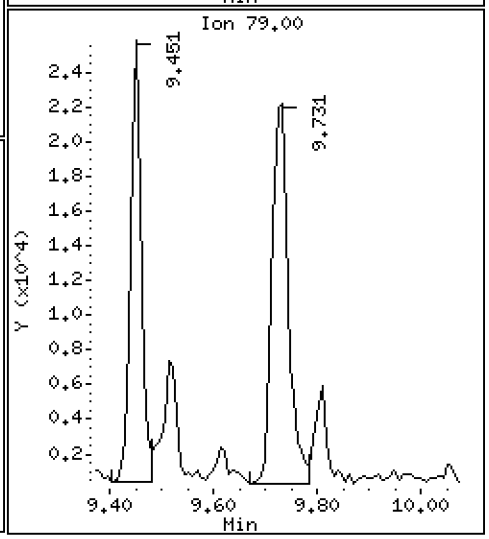












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

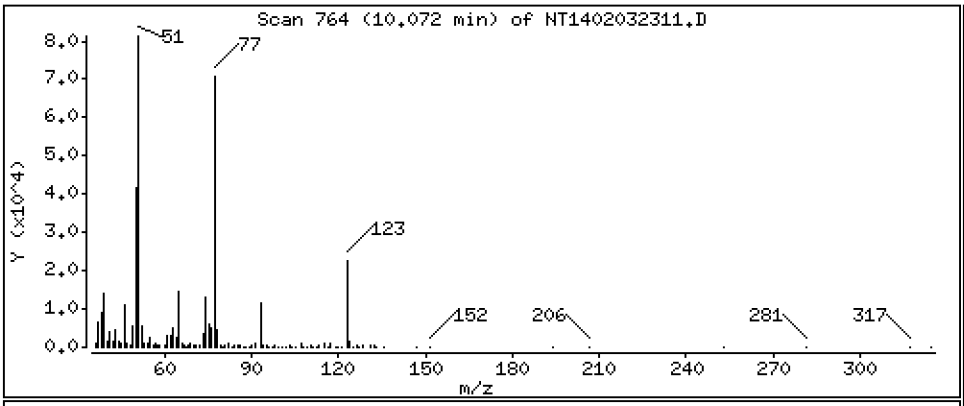
Operator: DSD

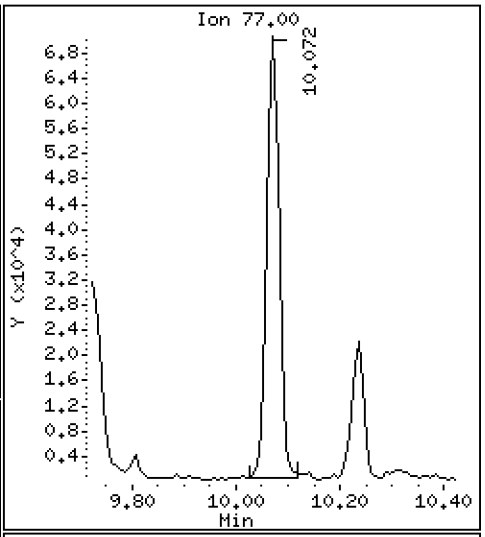
Column phase: ZB-5msi

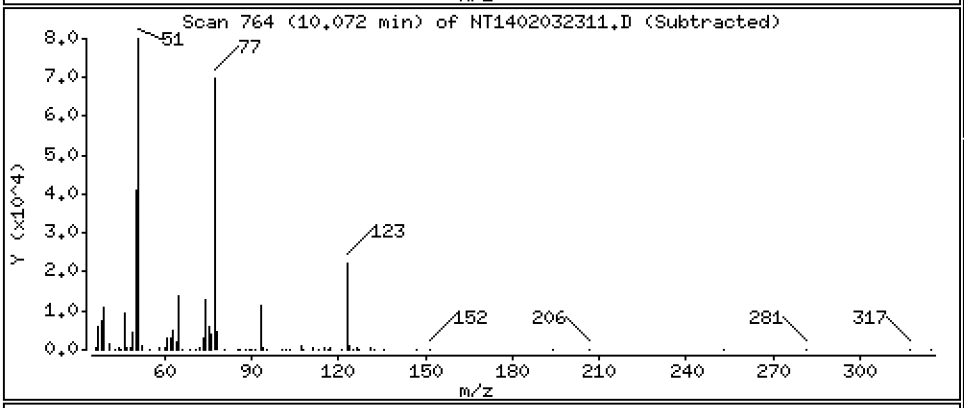
Column diameter: 0.25

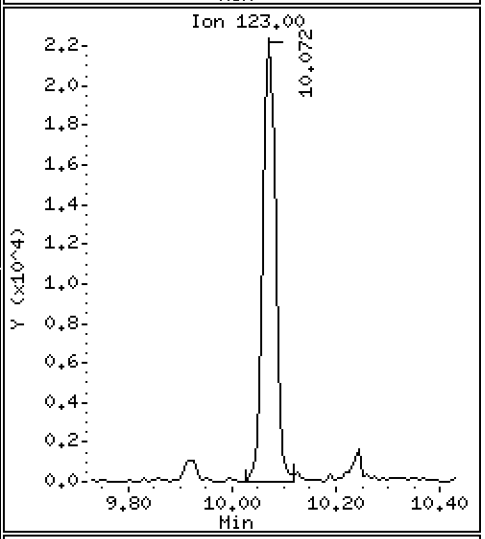
19 Nitrobenzene

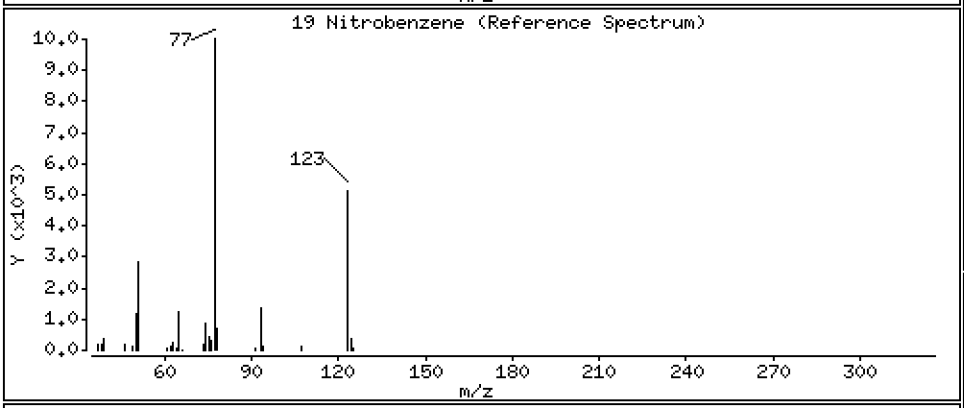
Concentration: 3.591 ug/mL

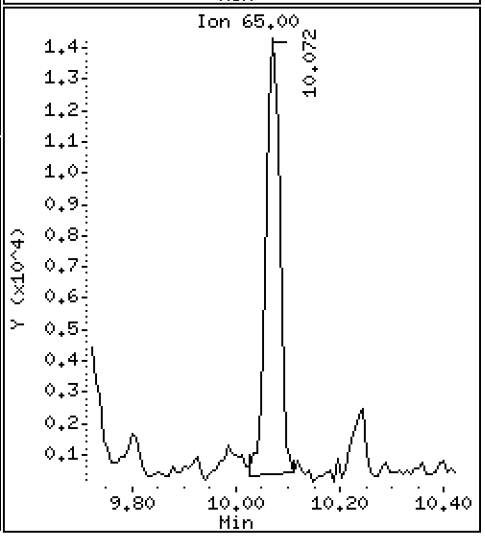


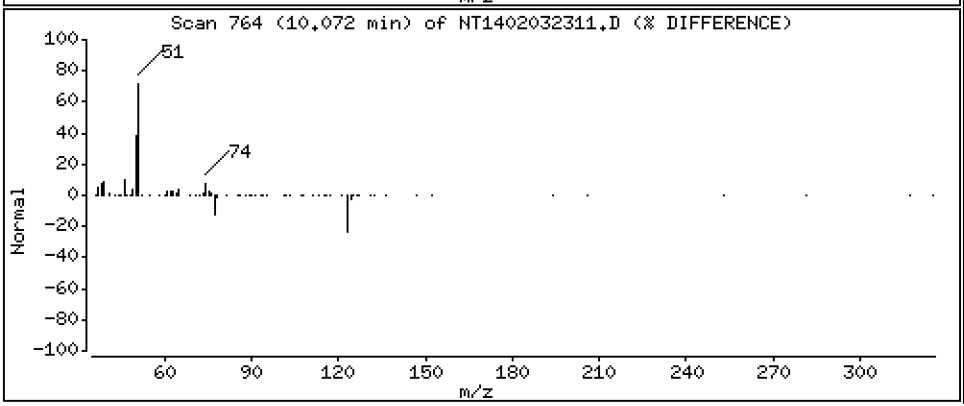












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

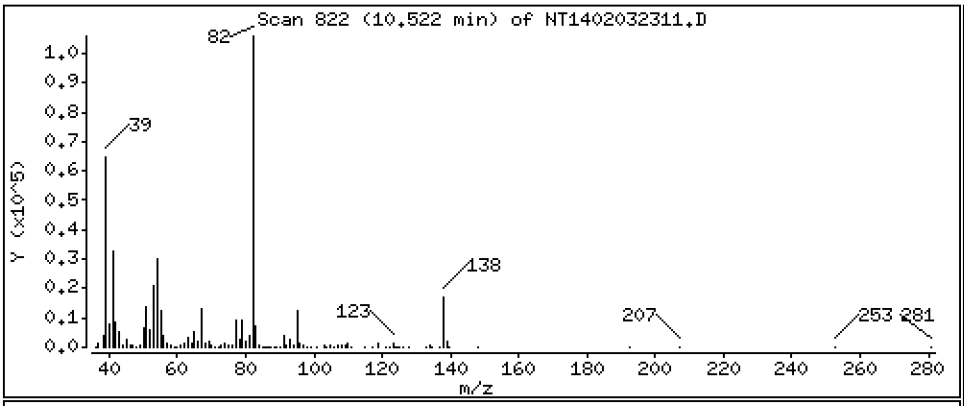
Operator: DSD

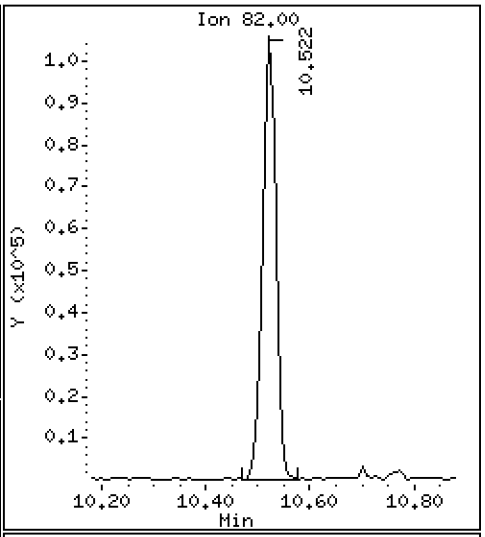
Column phase: ZB-5msi

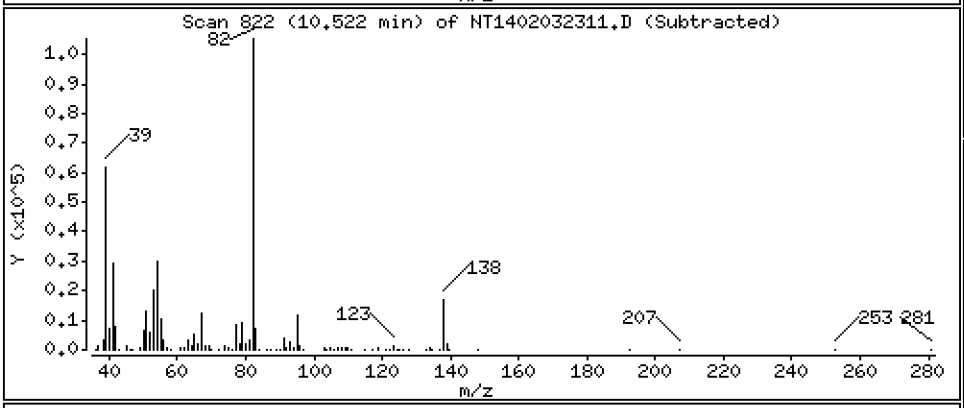
Column diameter: 0.25

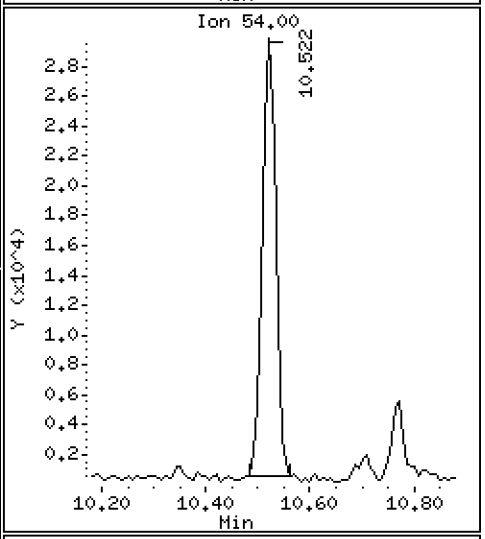
20 Isophorone

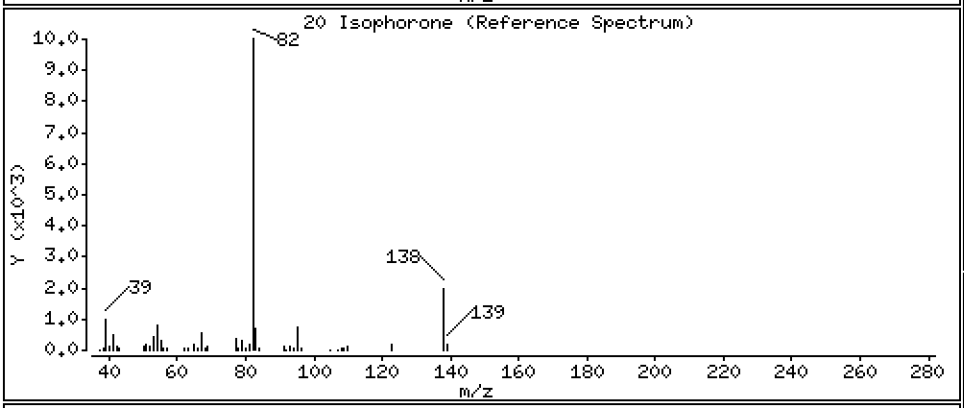
Concentration: 5.037 ug/mL

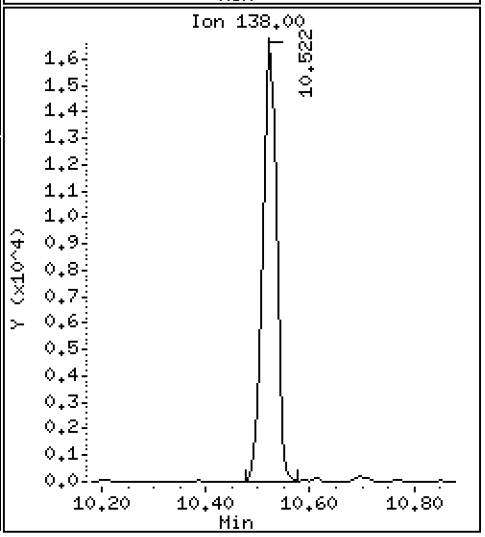


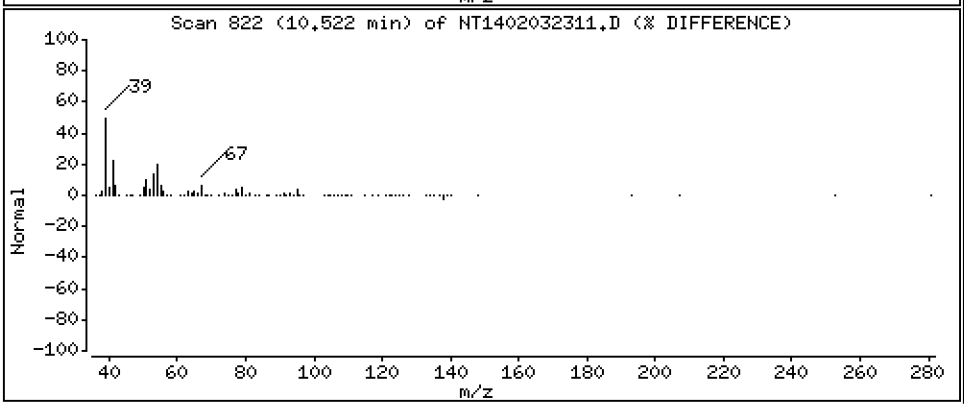












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

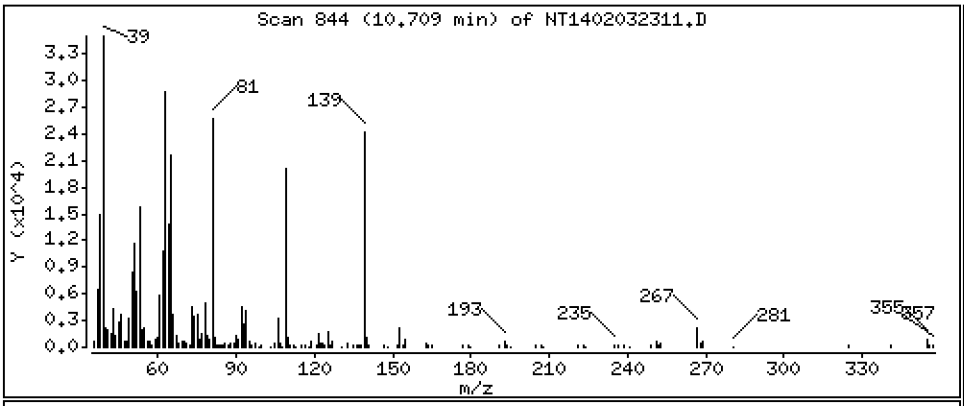
Operator: DSD

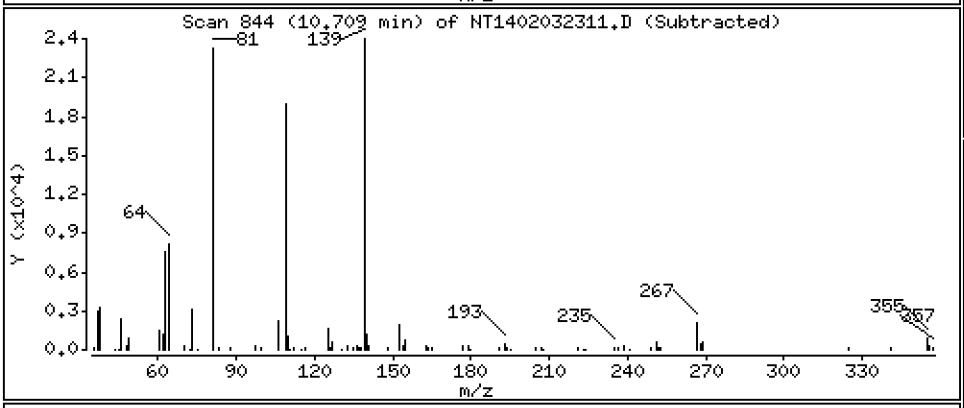
Column phase: ZB-5msi

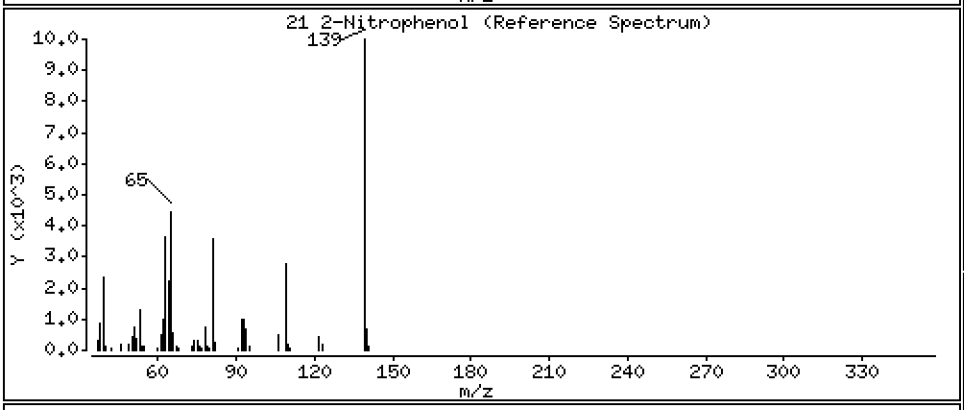
Column diameter: 0.25

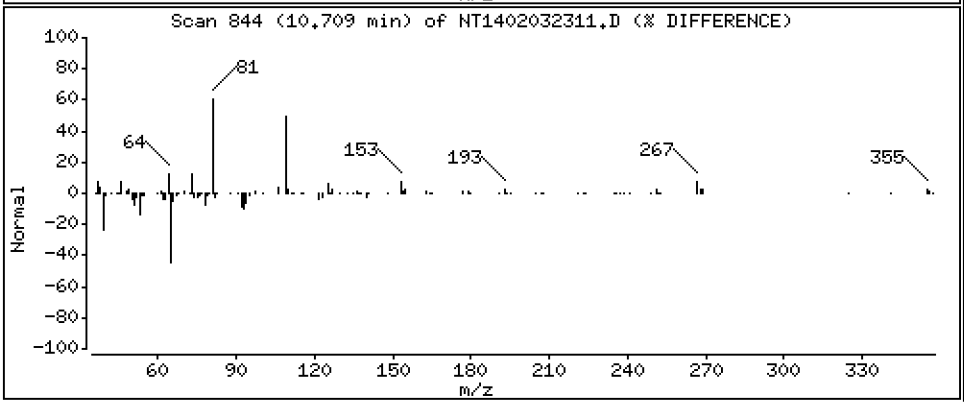
21 2-Nitrophenol

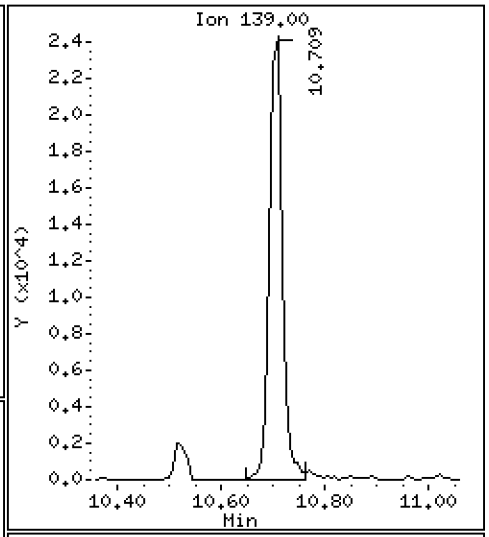
Concentration: 3.824 ug/mL

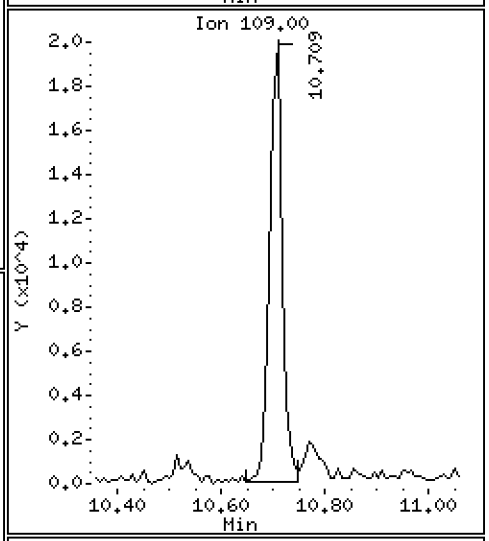


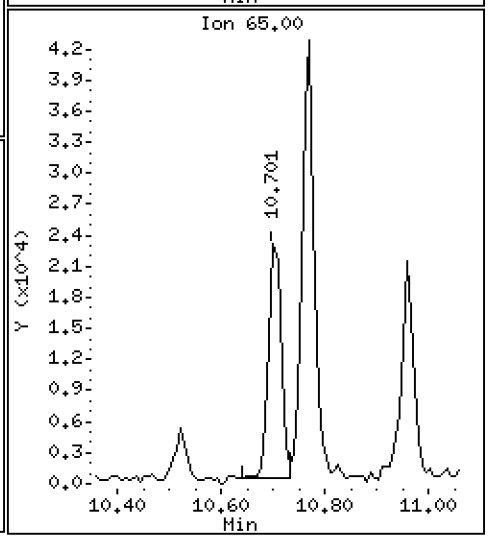












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

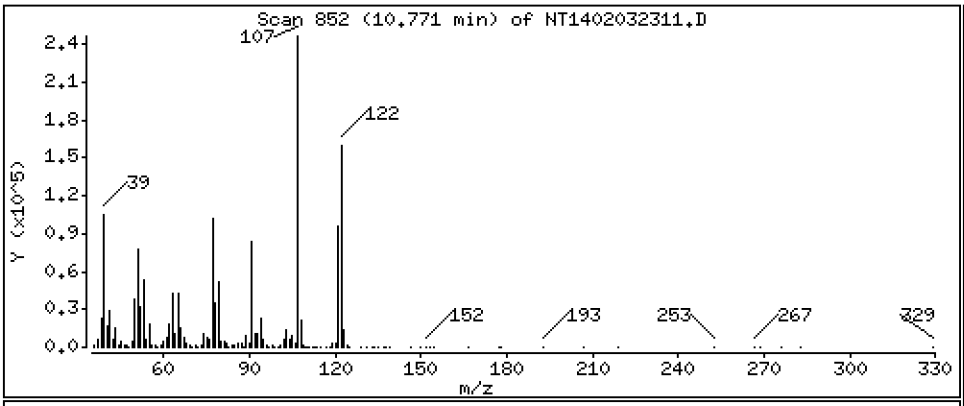
Operator: DSD

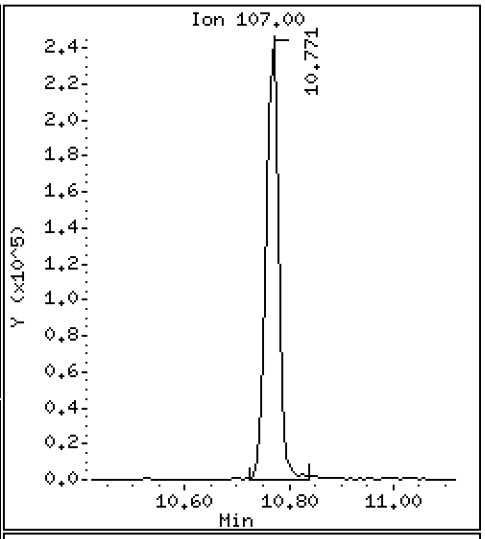
Column phase: ZB-5msi

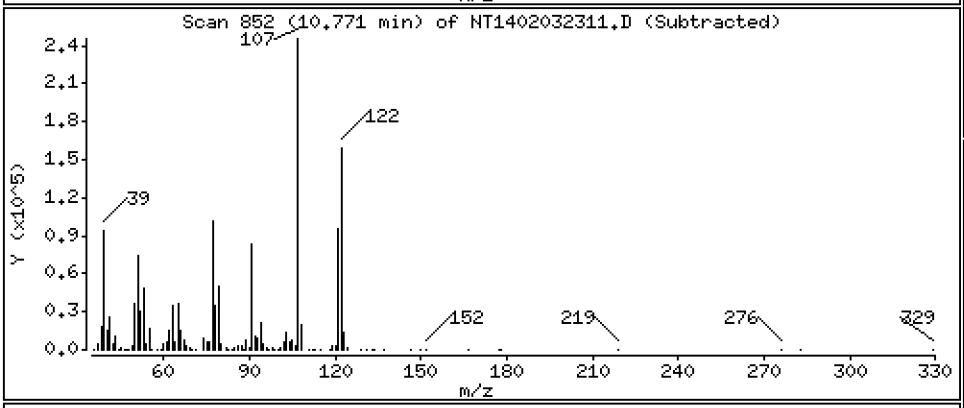
Column diameter: 0.25

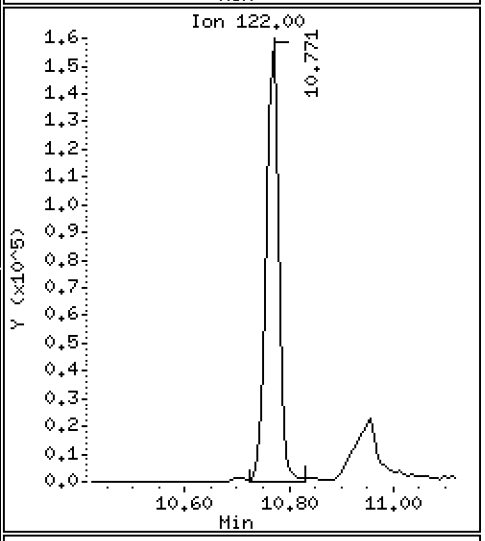
22 2,4-Dimethylphenol

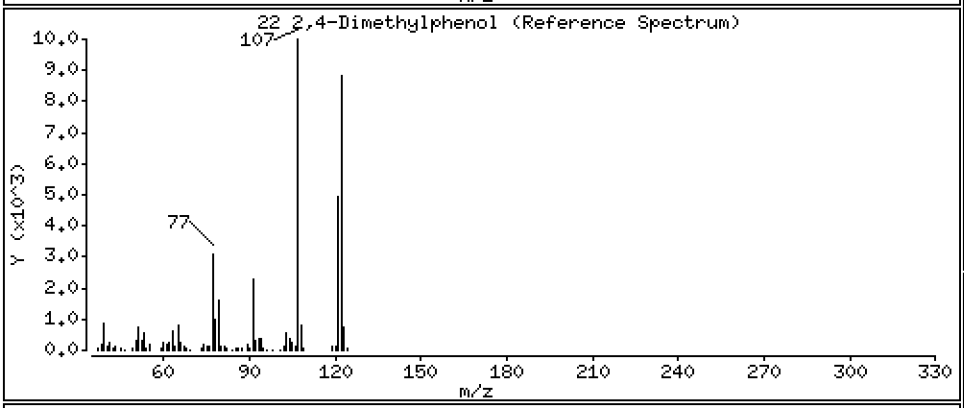
Concentration: 12.24 ug/mL

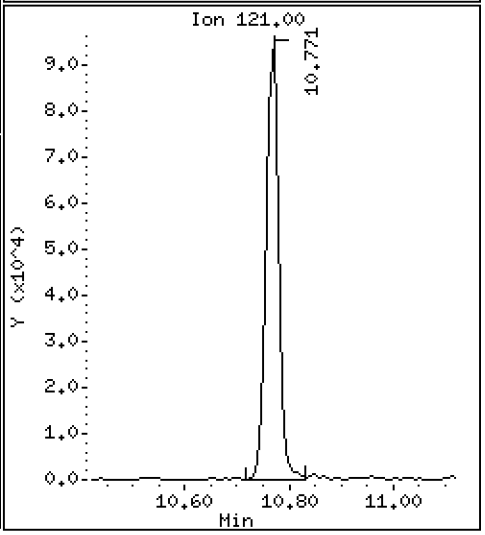


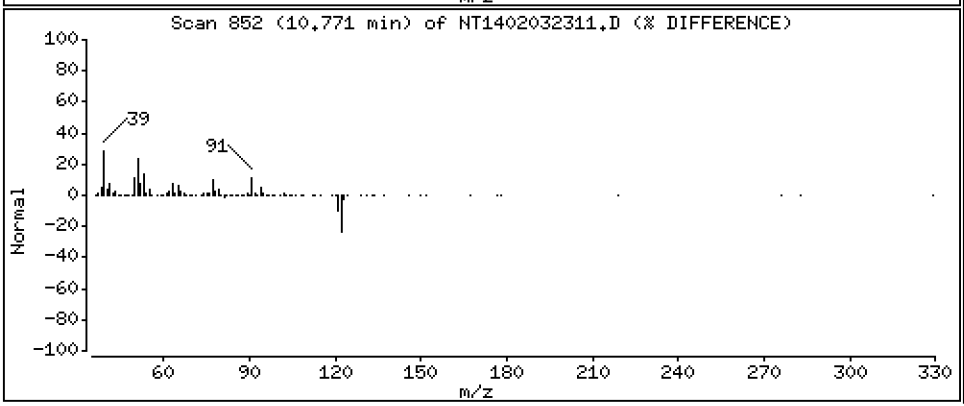












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

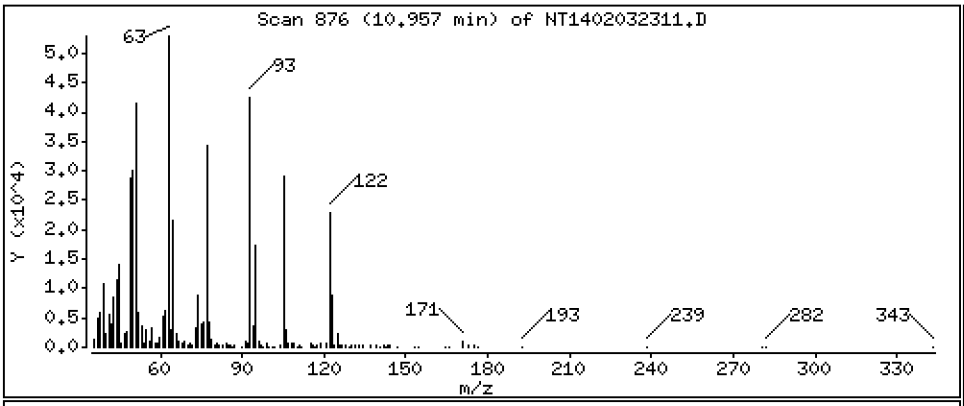
Operator: DSD

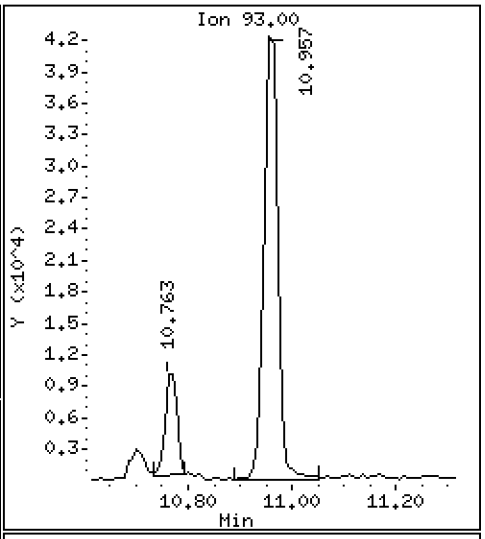
Column phase: ZB-5msi

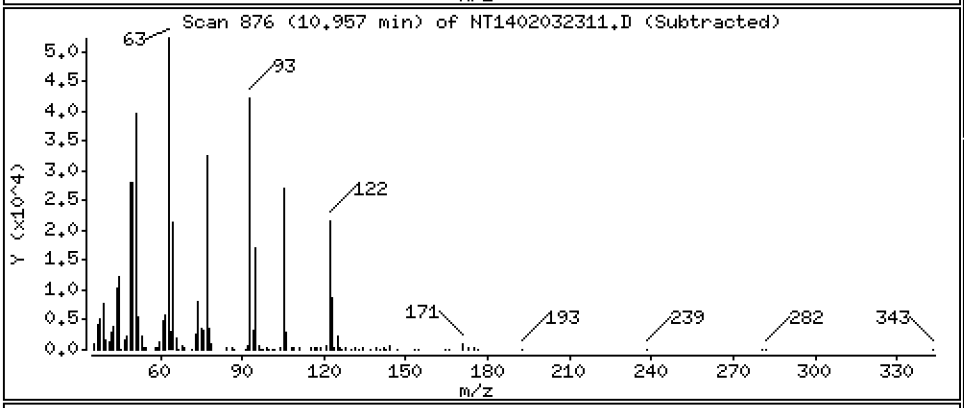
Column diameter: 0.25

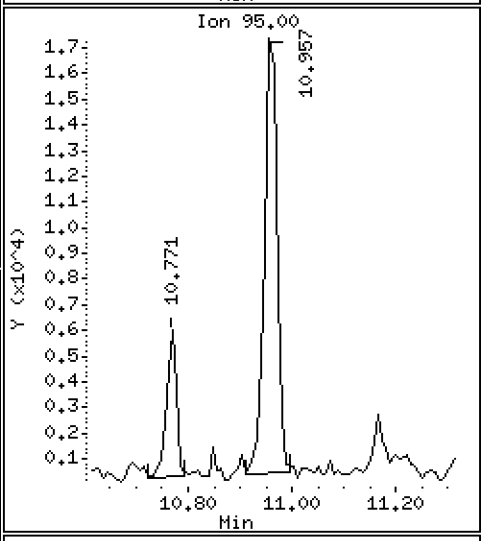
23 Bis(2-Chloroethoxy)methane

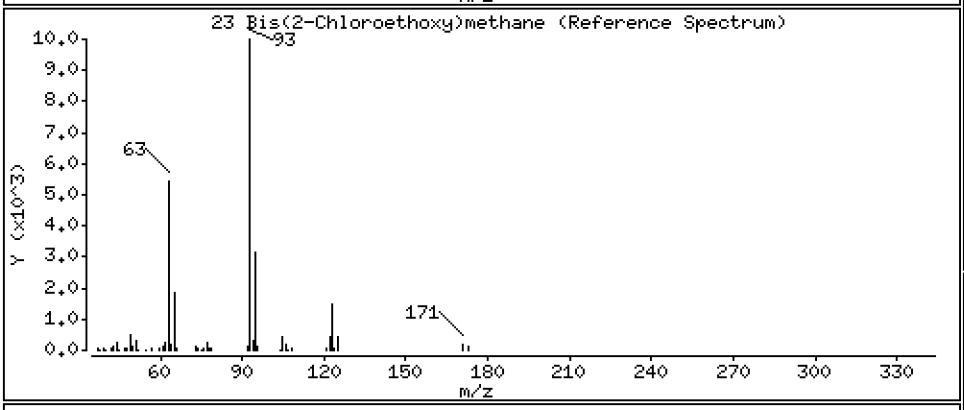
Concentration: 4.211 ug/mL

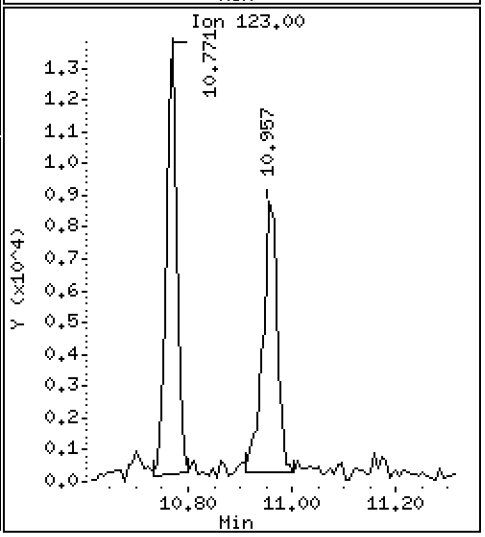


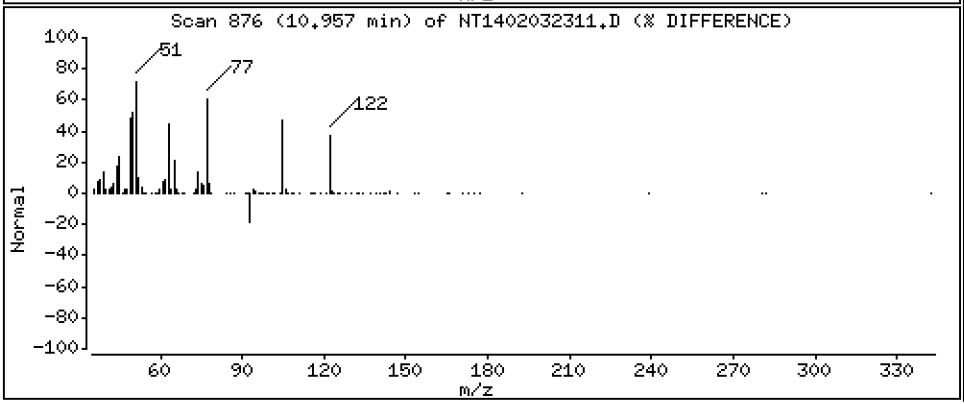












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

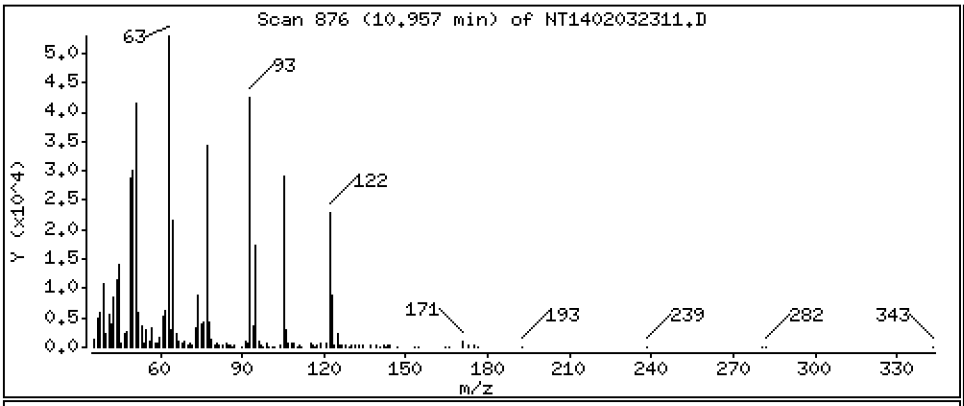
Operator: DSD

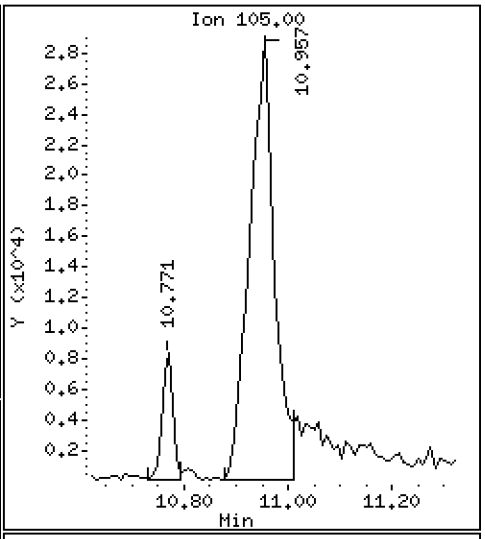
Column phase: ZB-5msi

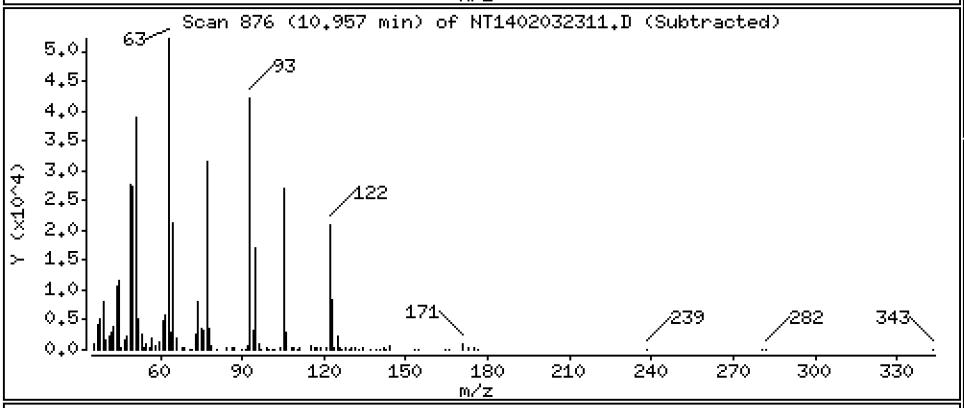
Column diameter: 0.25

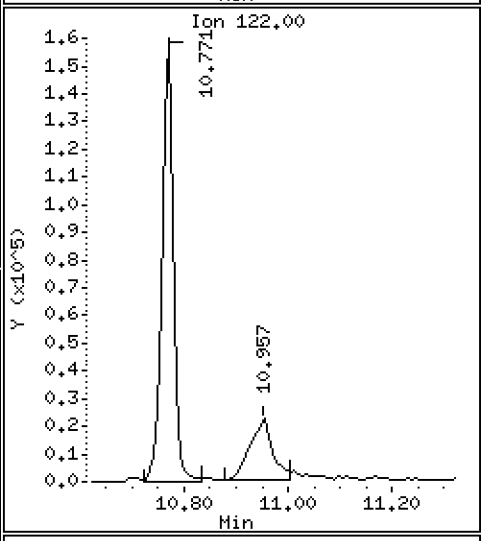
24 Benzoic acid

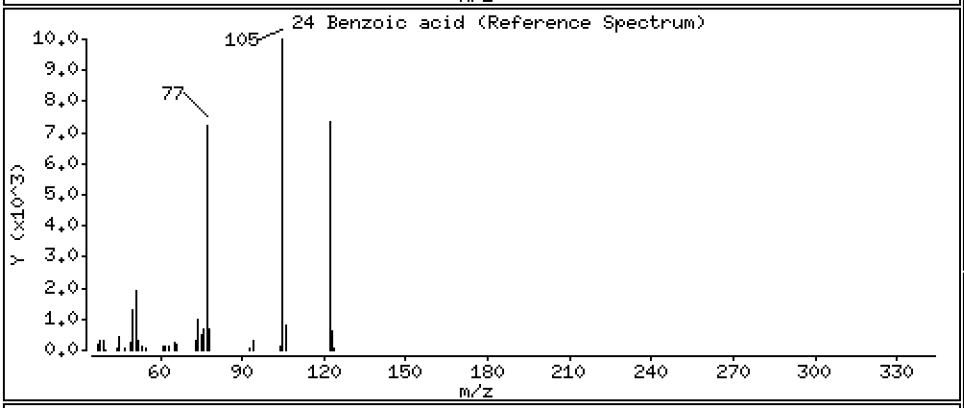
Concentration: 5.111 ug/mL

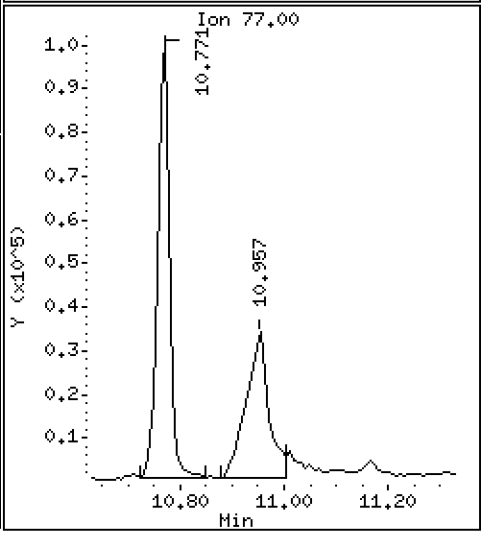


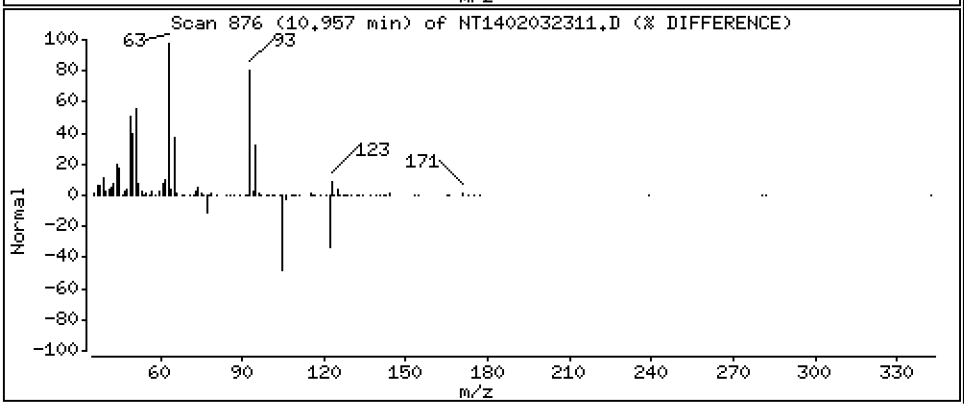












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

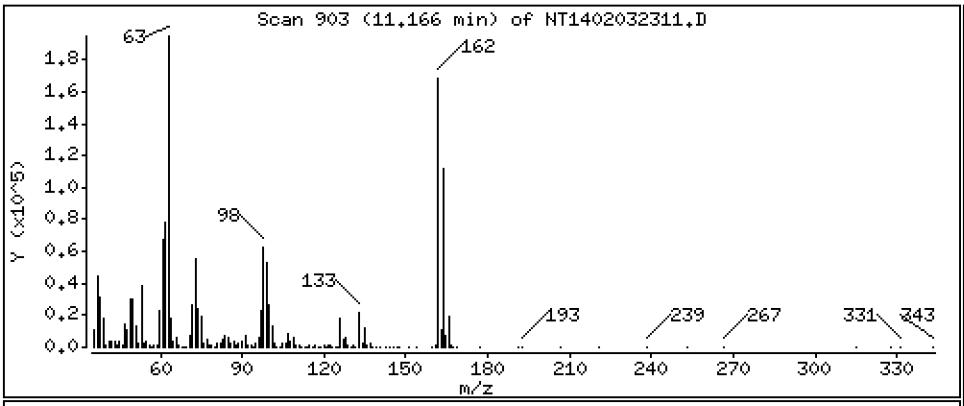
Operator: DSD

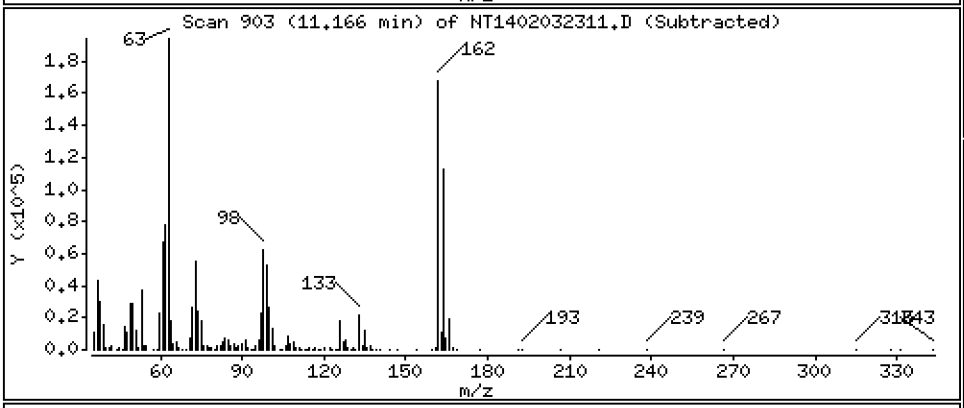
Column phase: ZB-5msi

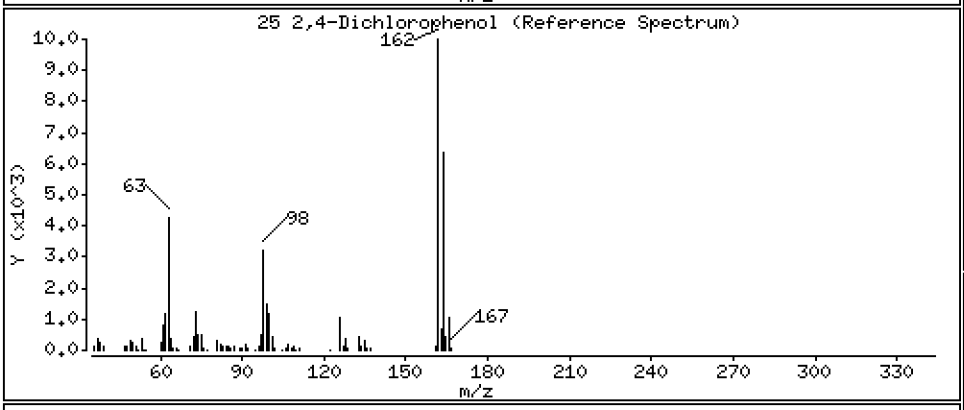
Column diameter: 0.25

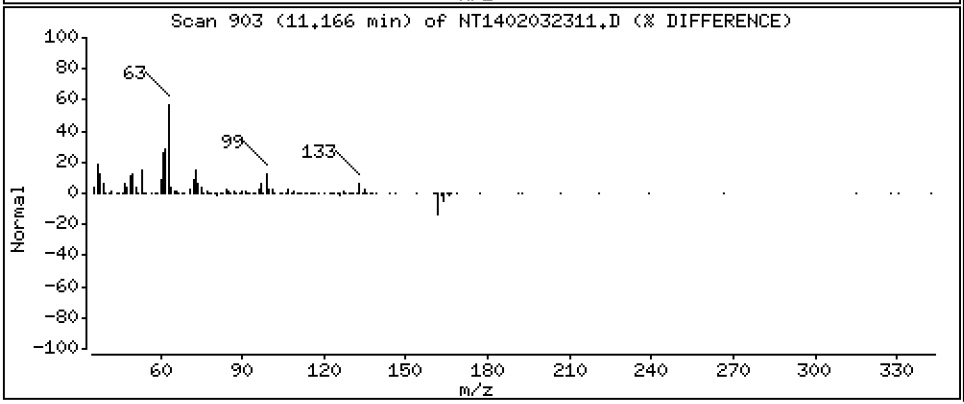
25 2,4-Dichlorophenol

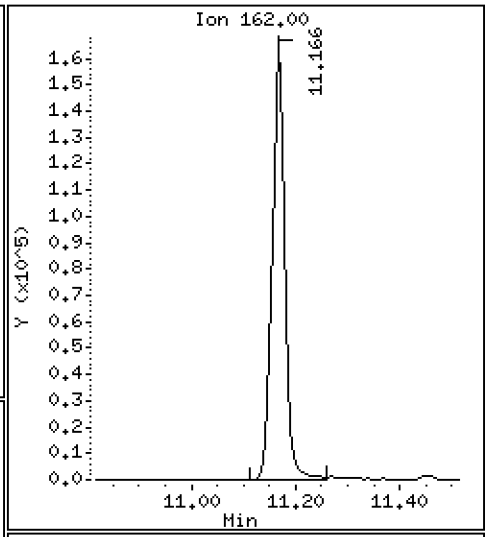
Concentration: 13.25 ug/mL

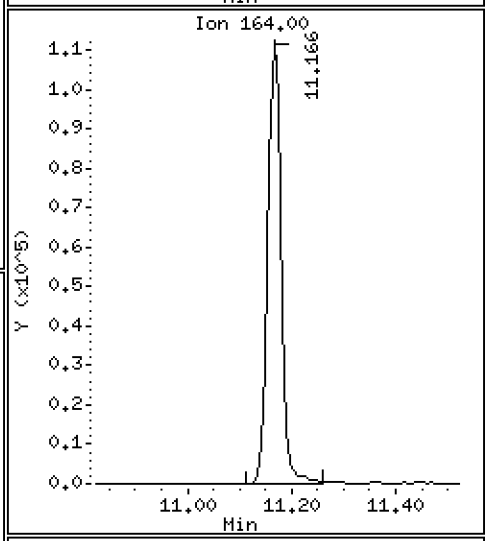


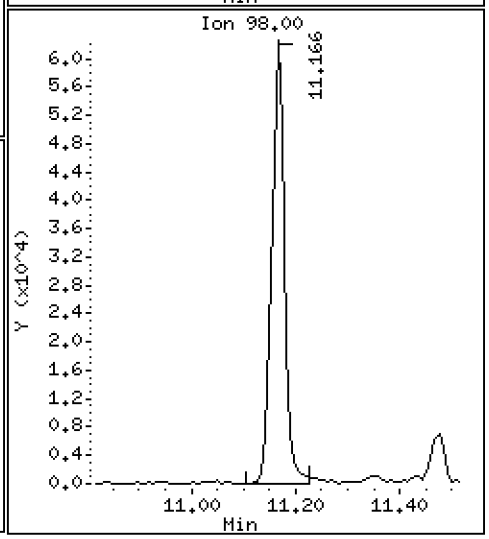












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

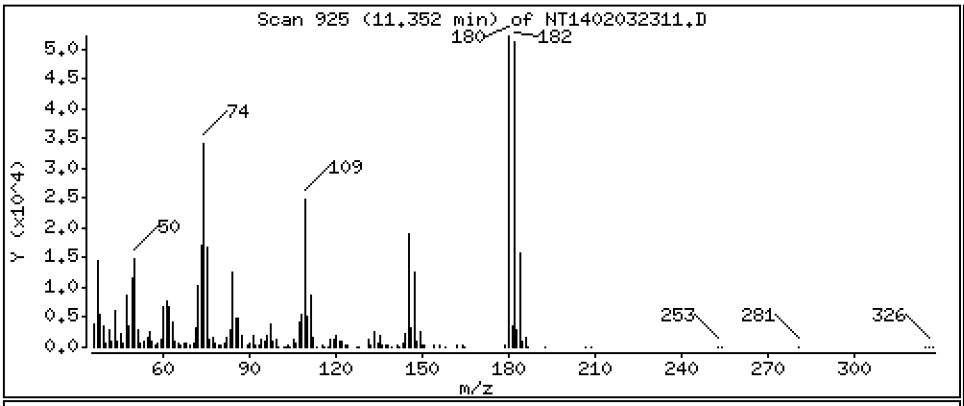
Operator: DSD

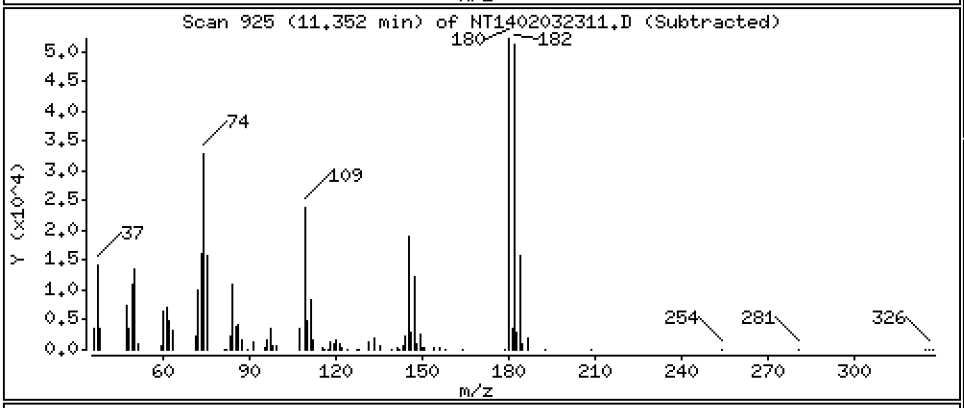
Column phase: ZB-5msi

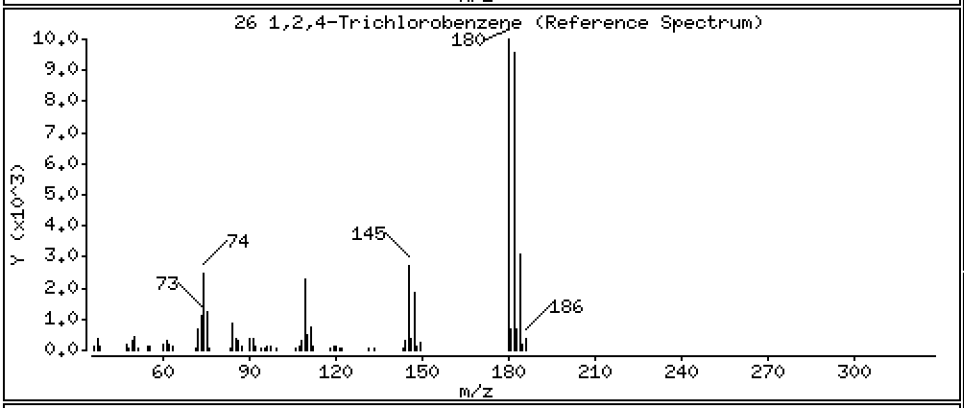
Column diameter: 0.25

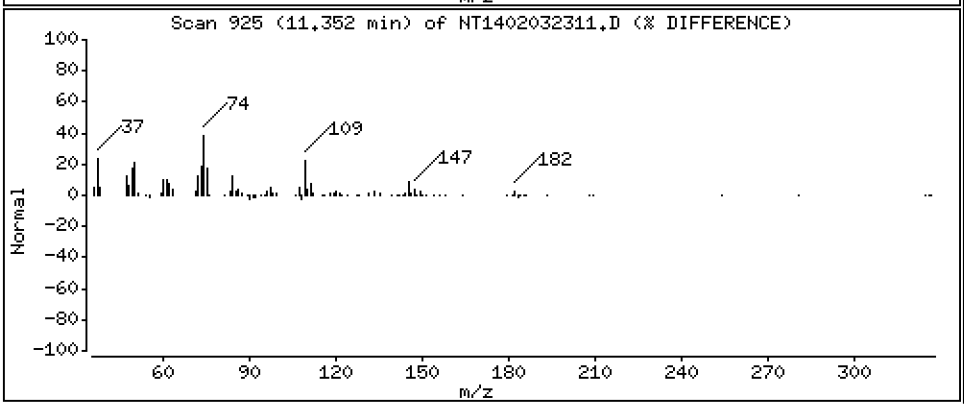
26 1,2,4-Trichlorobenzene

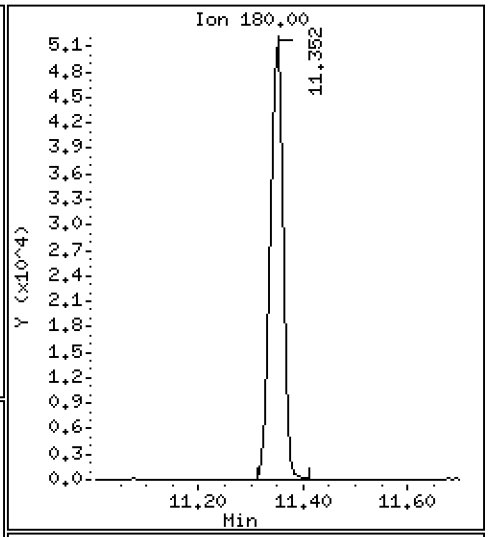
Concentration: 3.898 ug/mL

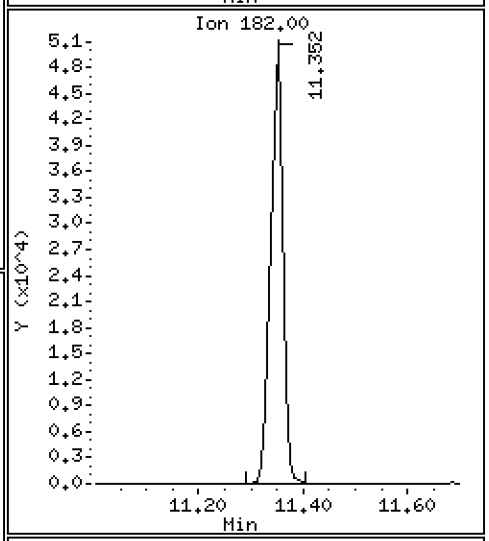


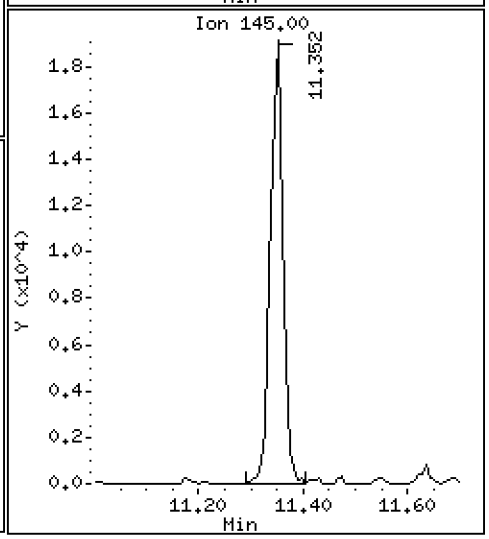












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

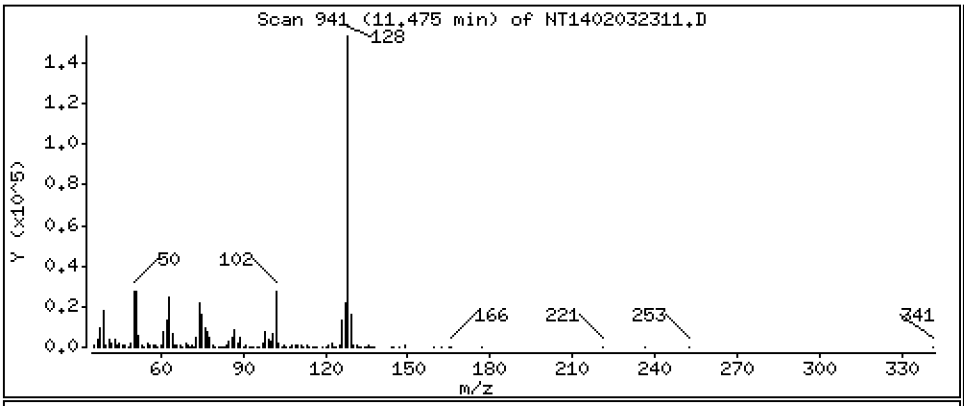
Operator: DSD

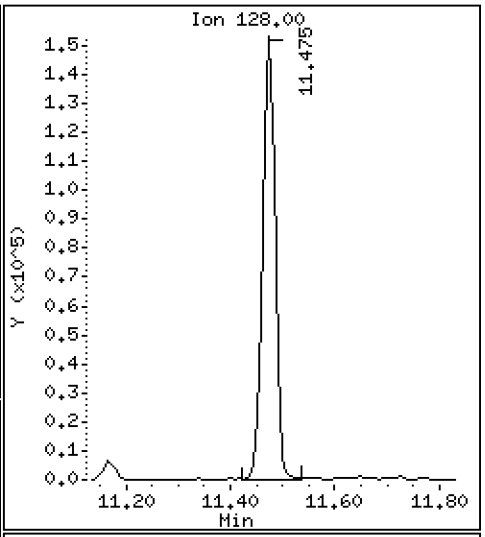
Column phase: ZB-5msi

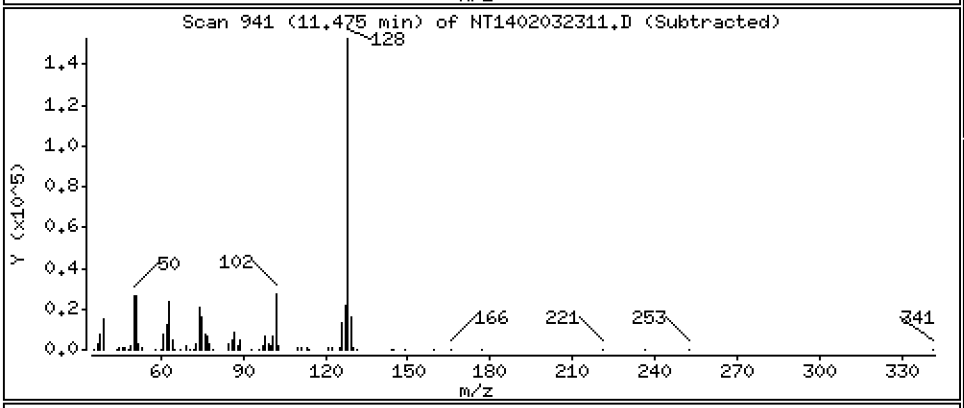
Column diameter: 0.25

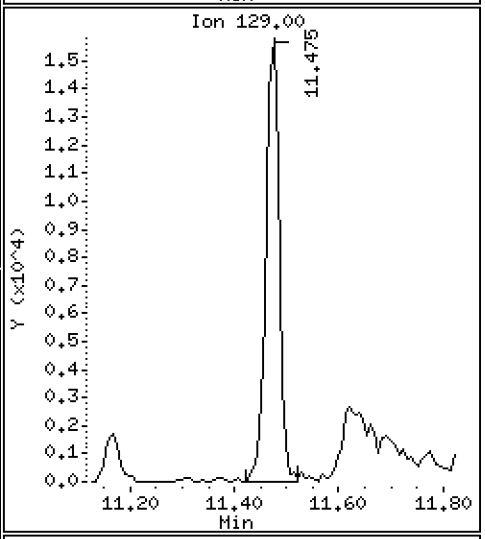
28 Naphthalene

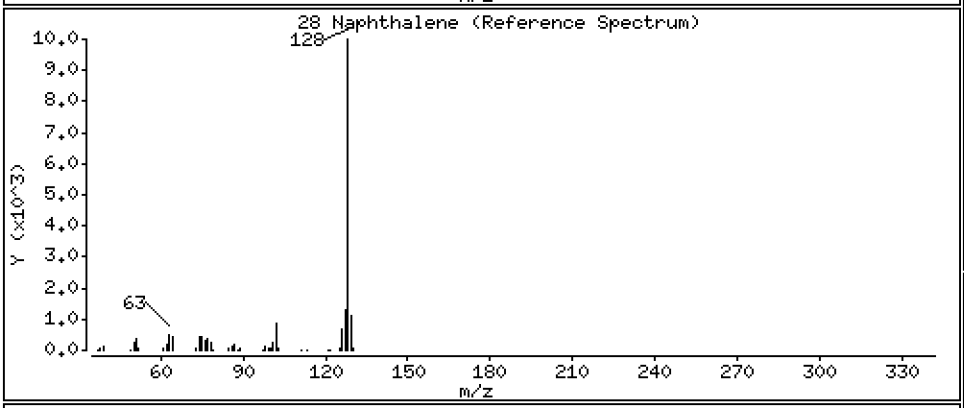
Concentration: 4.258 ug/mL

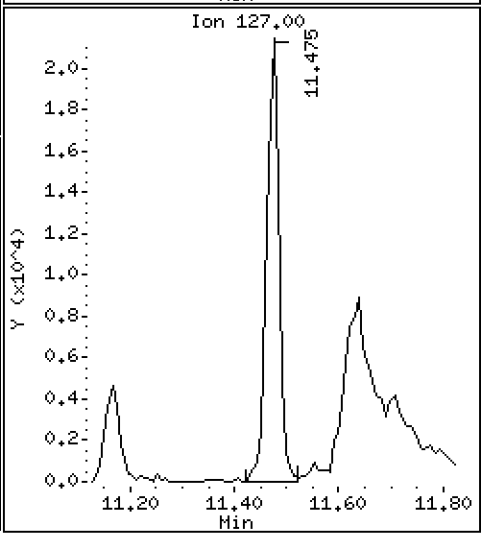


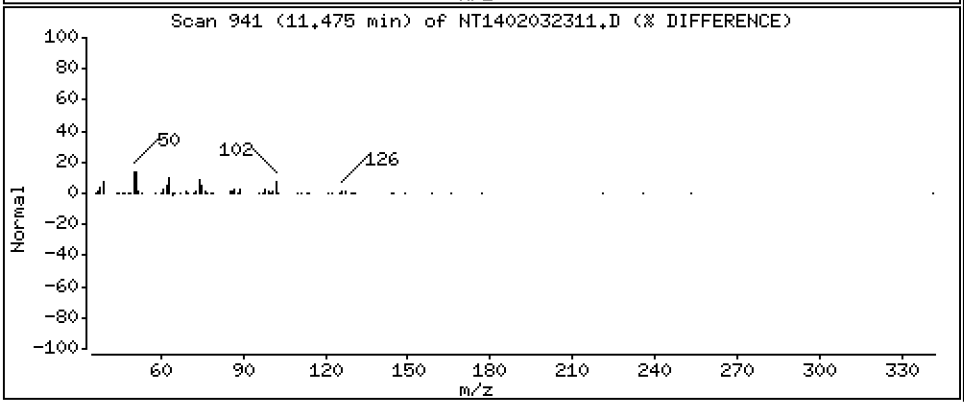












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

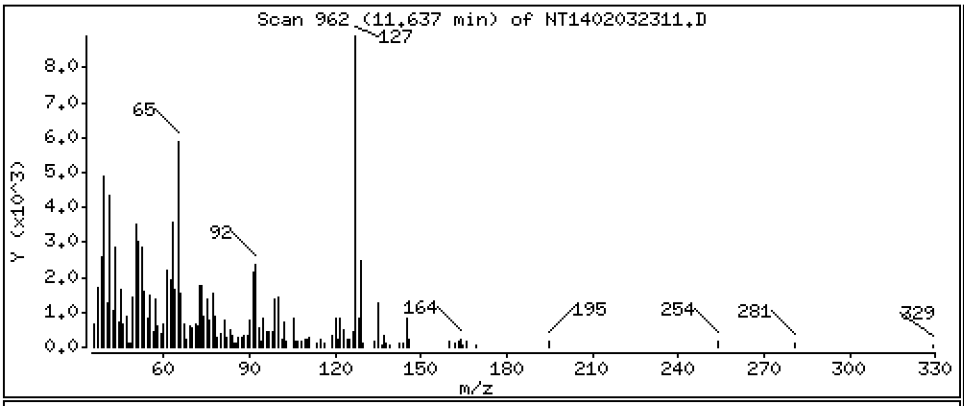
Operator: DSD

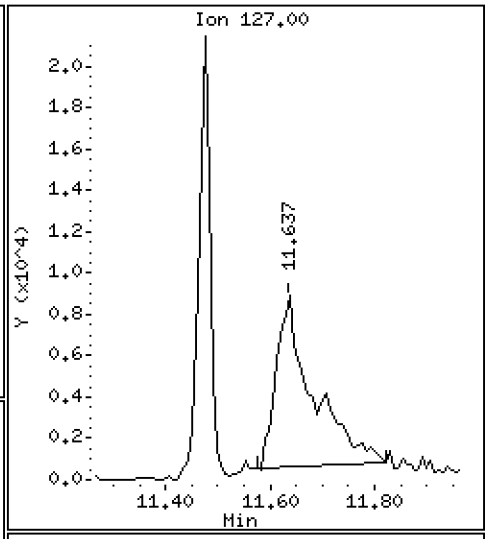
Column phase: ZB-5msi

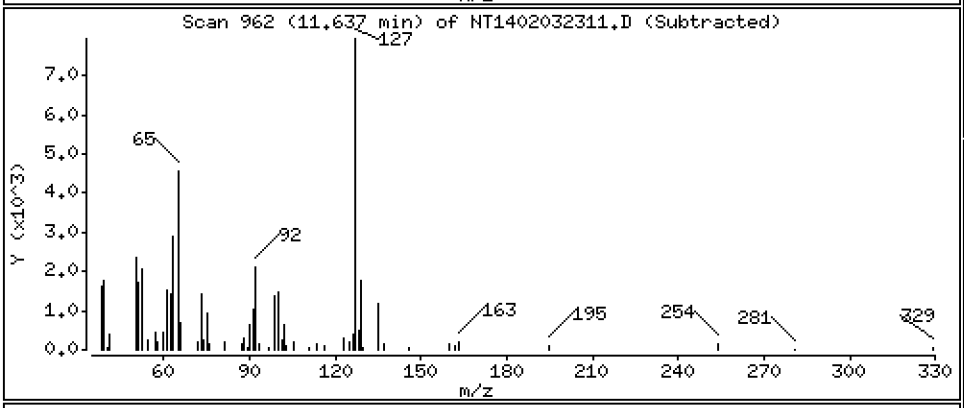
Column diameter: 0.25

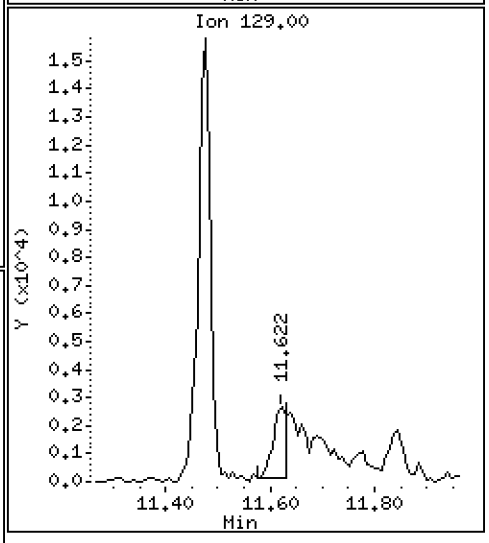
29 4-Chloroaniline

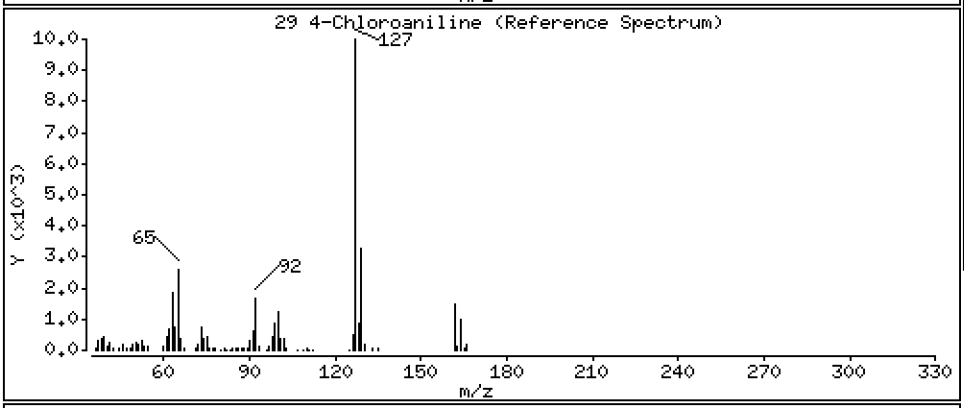
Concentration: 1.789 ug/mL

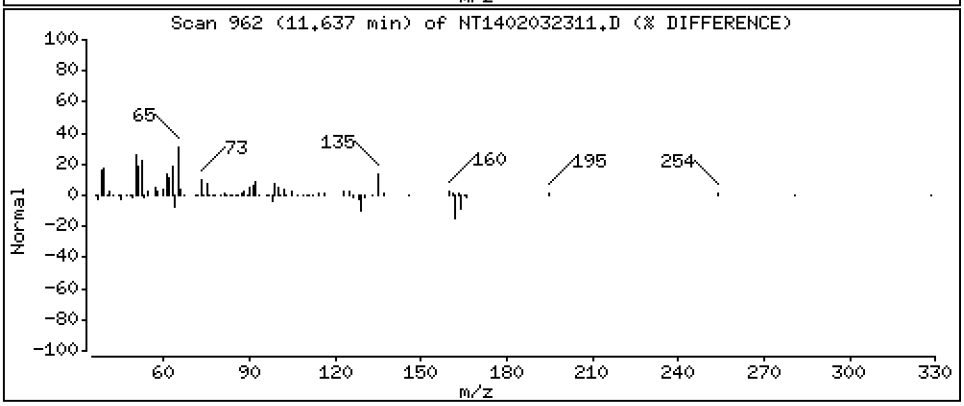












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

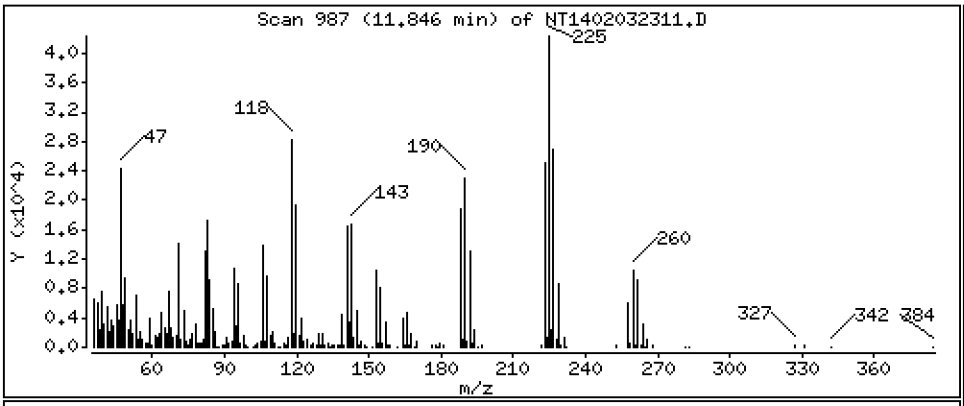
Operator: DSD

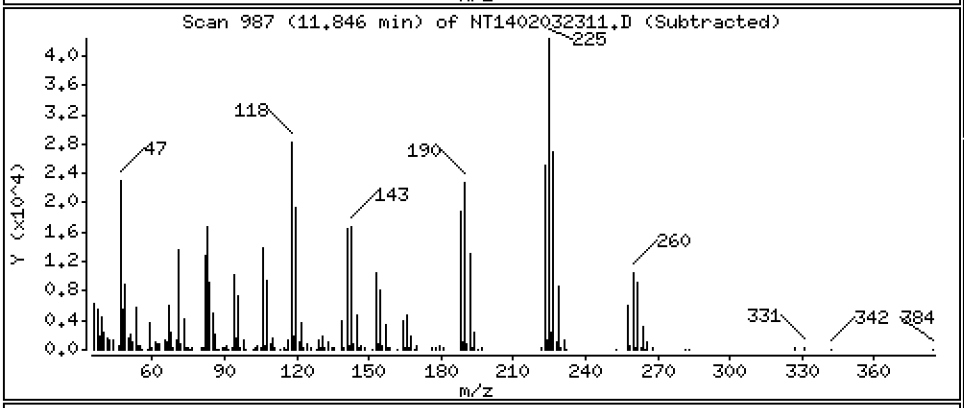
Column phase: ZB-5msi

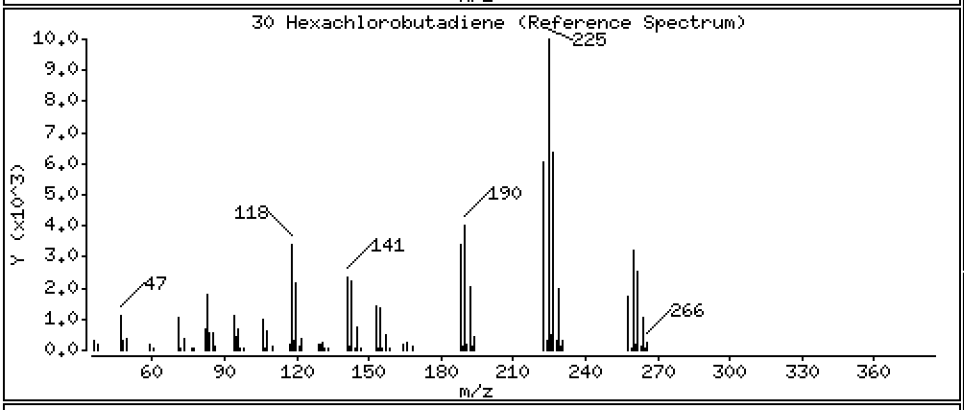
Column diameter: 0.25

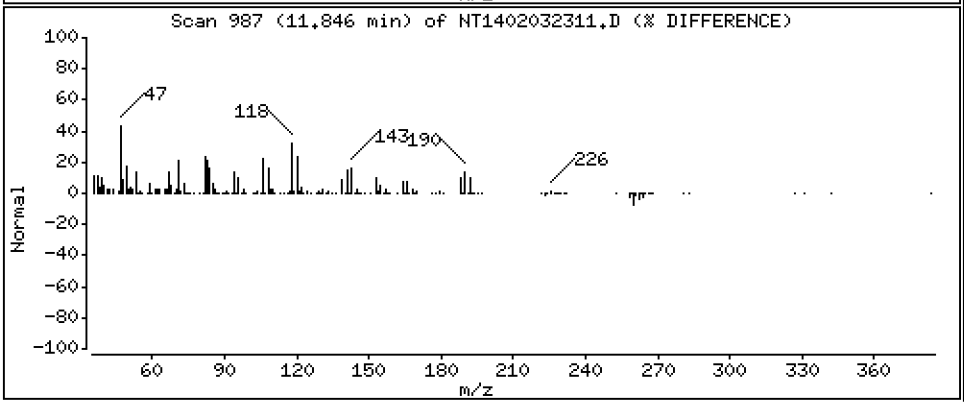
30 Hexachlorobutadiene

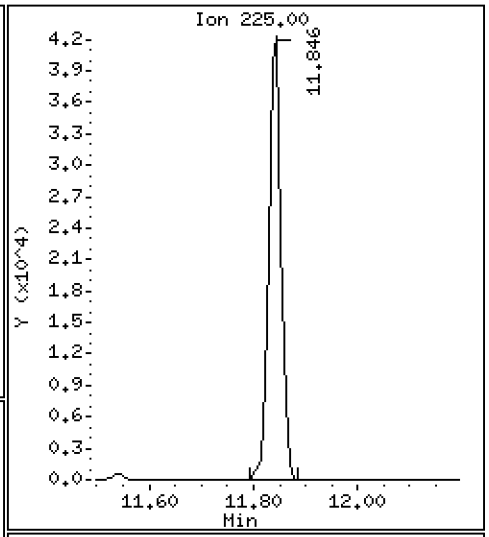
Concentration: 4.686 ug/mL

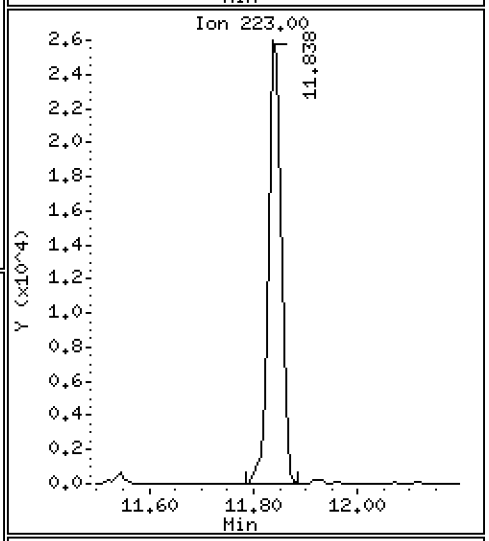


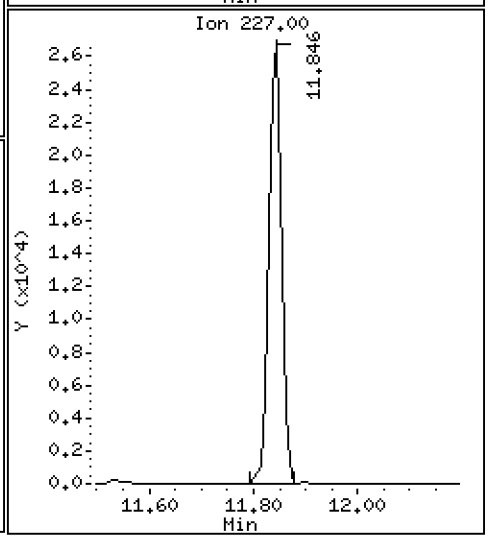












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

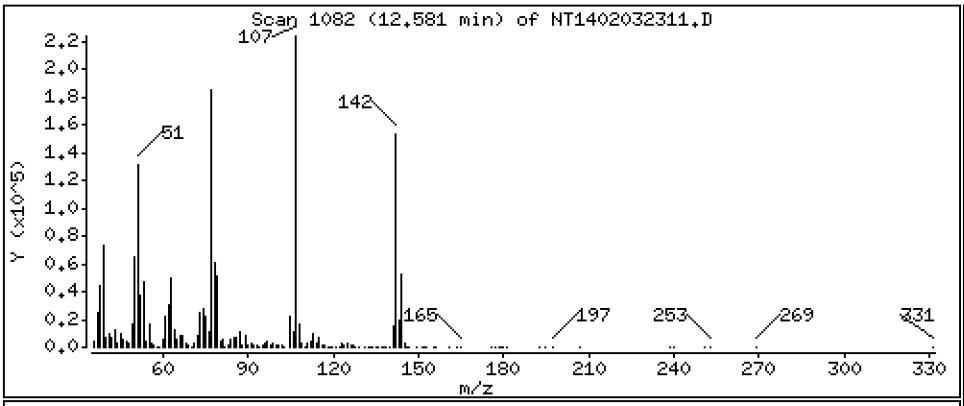
Operator: DSD

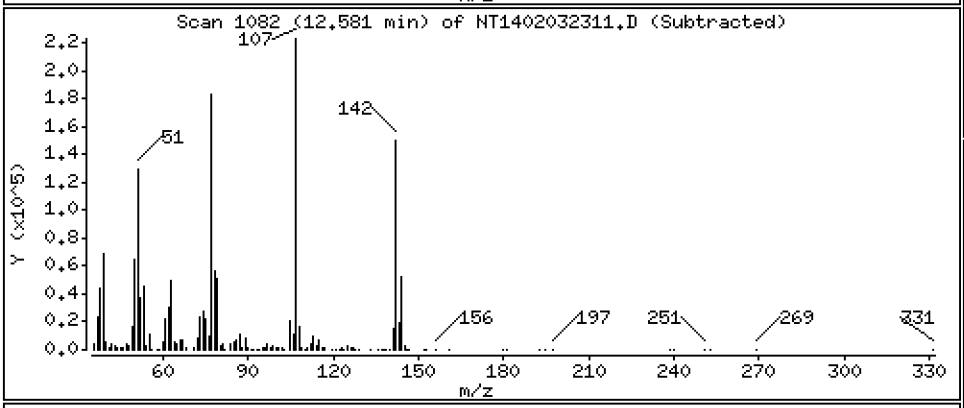
Column phase: ZB-5msi

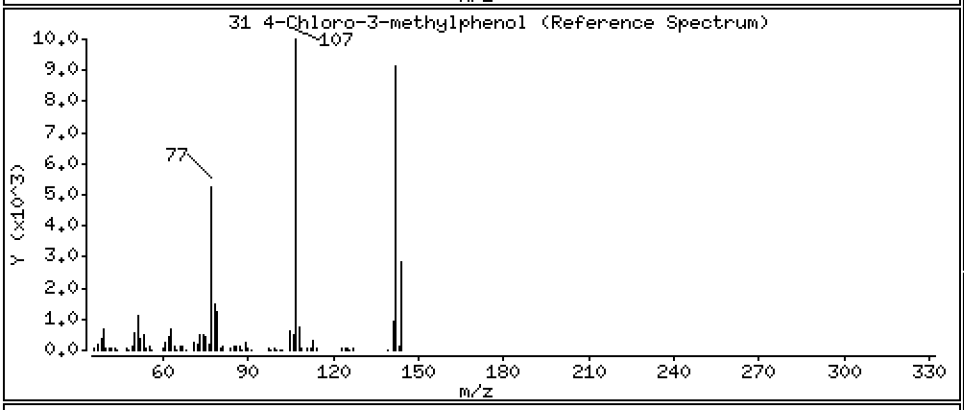
Column diameter: 0.25

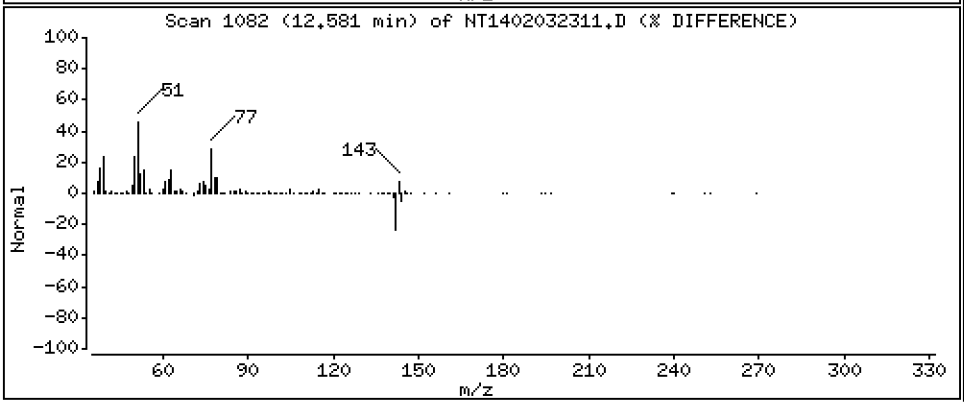
31 4-Chloro-3-methylphenol

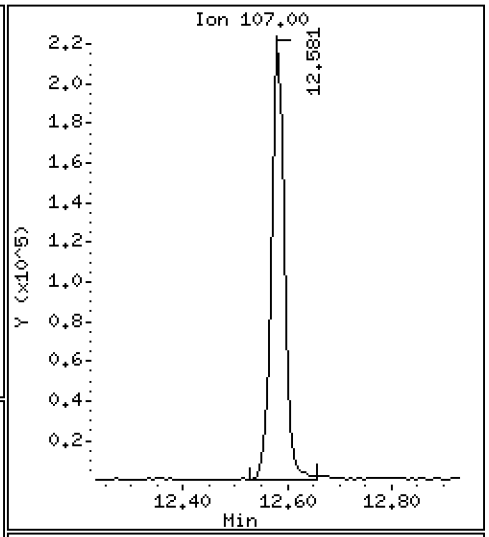
Concentration: 13.02 ug/mL

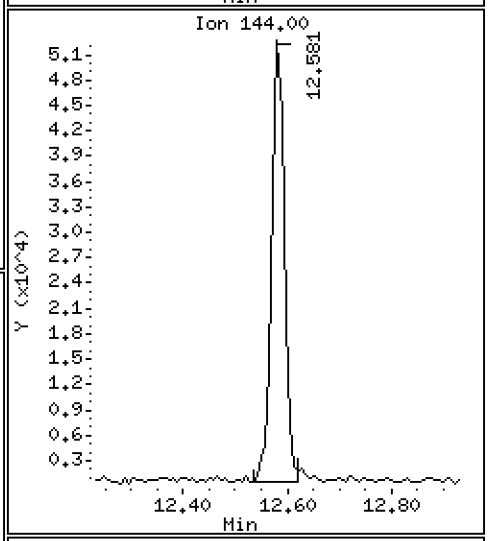


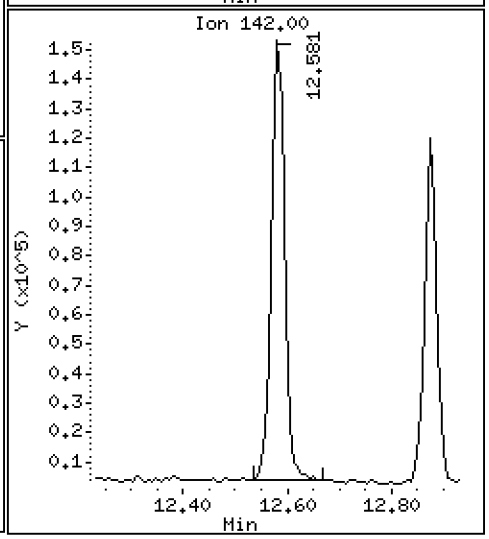












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

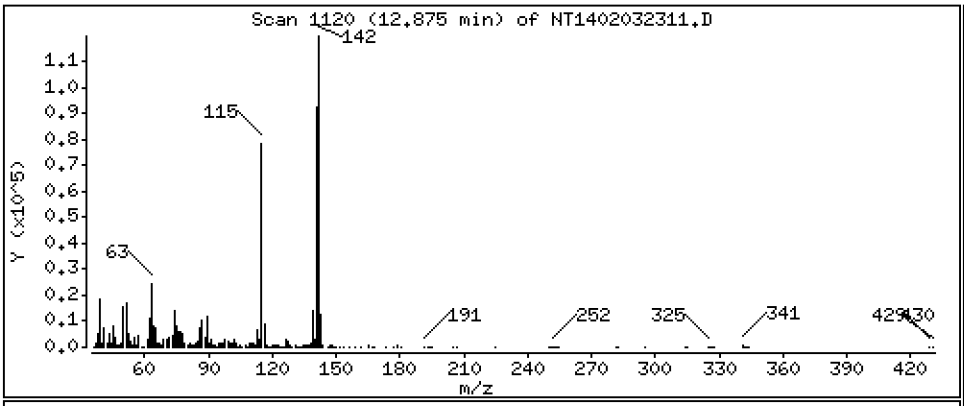
Operator: DSD

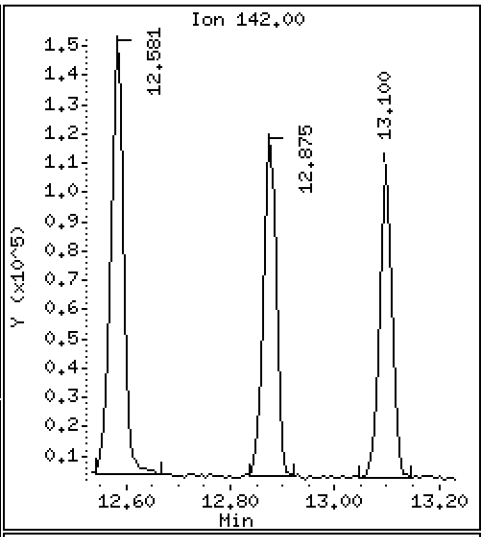
Column phase: ZB-5msi

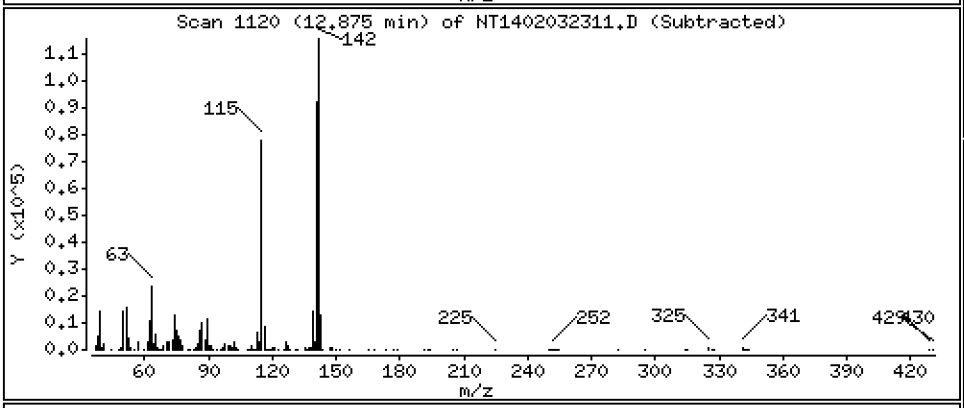
Column diameter: 0.25

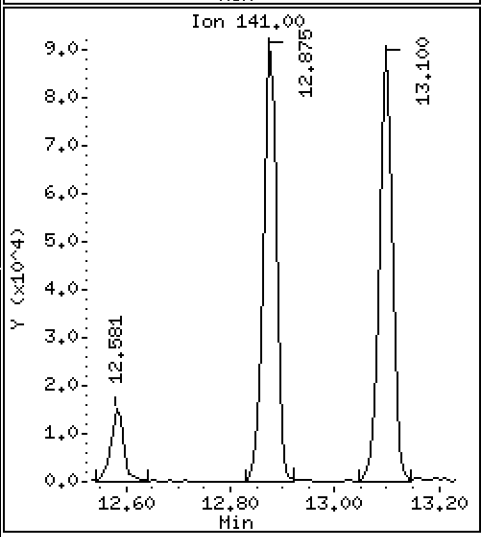
32 2-Methylnaphthalene

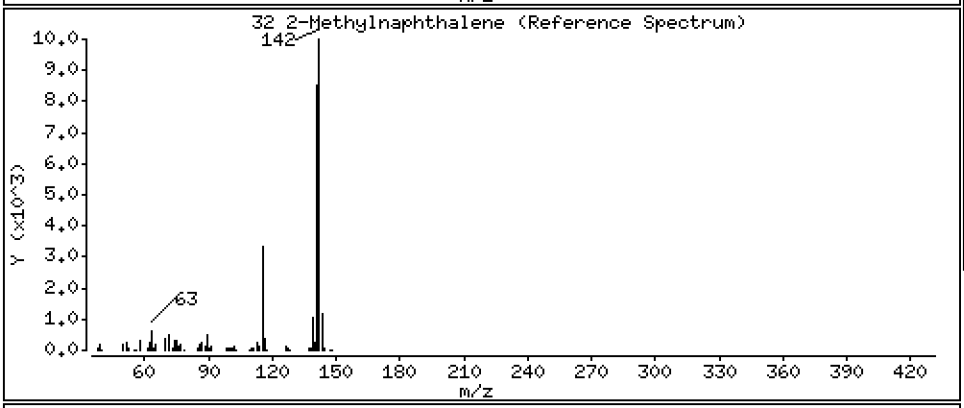
Concentration: 4.096 ug/mL

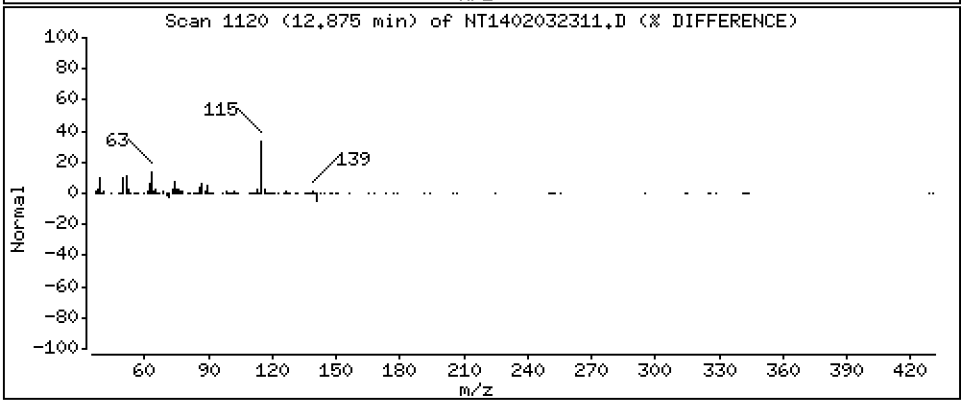












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

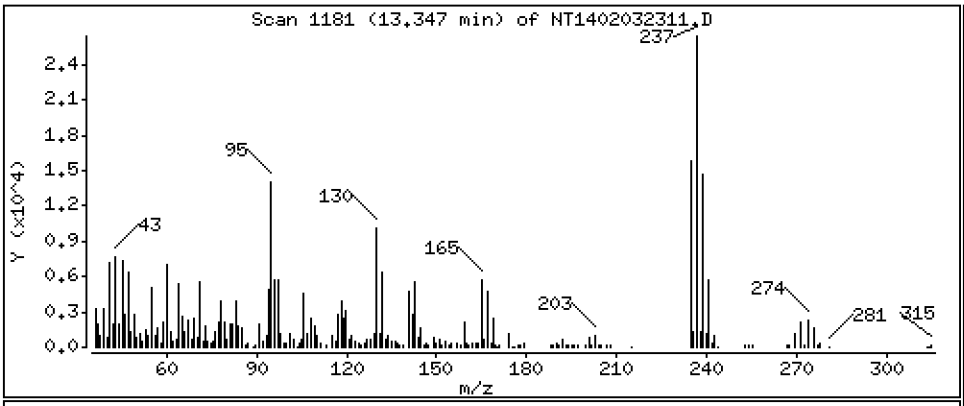
Operator: DSD

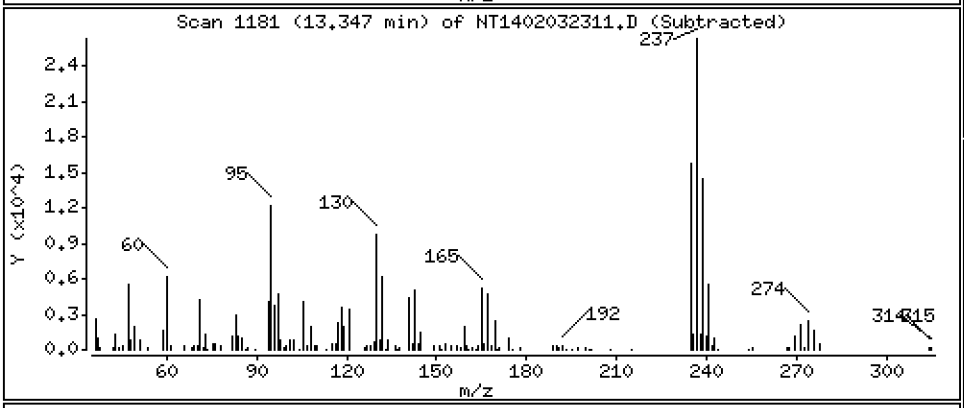
Column phase: ZB-5msi

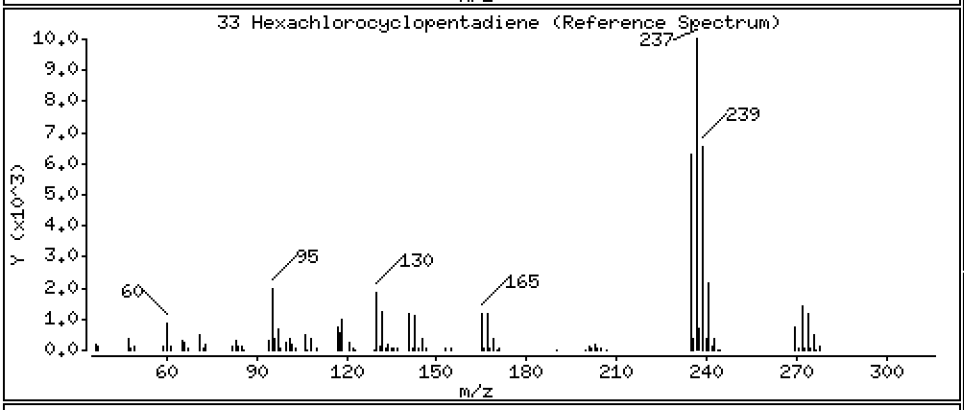
Column diameter: 0.25

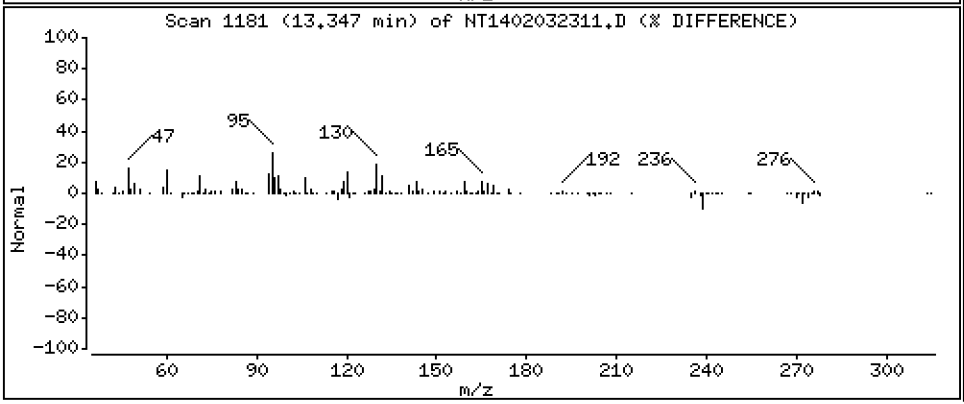
33 Hexachlorocyclopentadiene

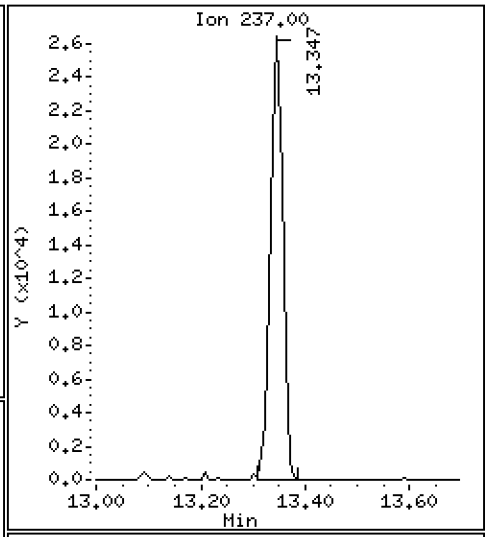
Concentration: 2.030 ug/mL

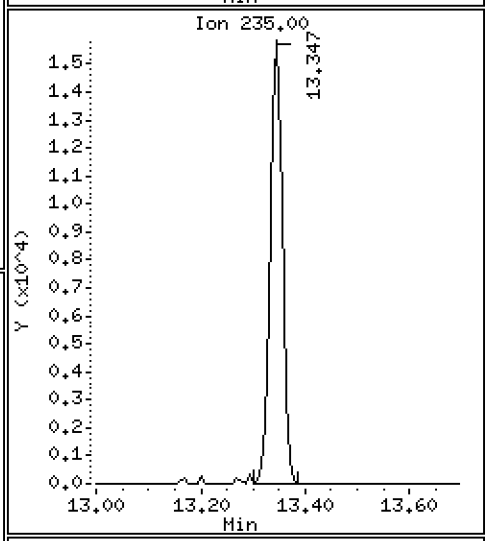


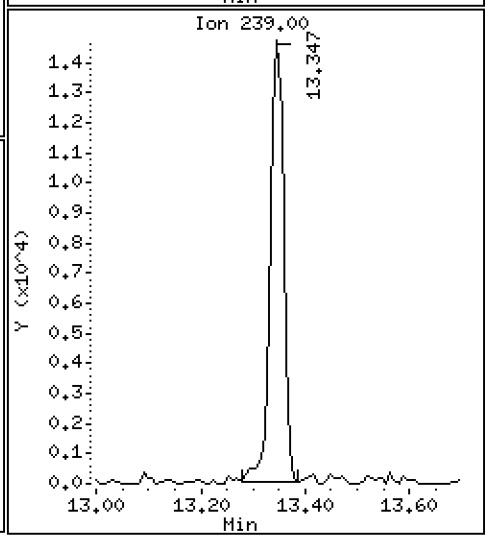












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

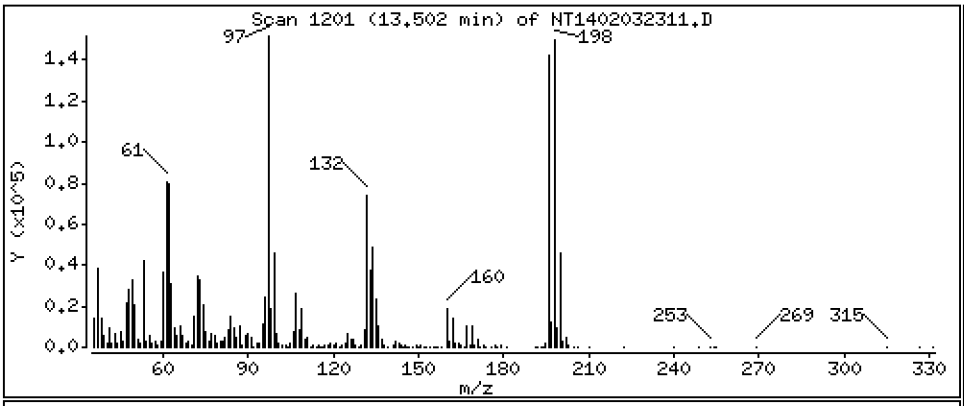
Operator: DSD

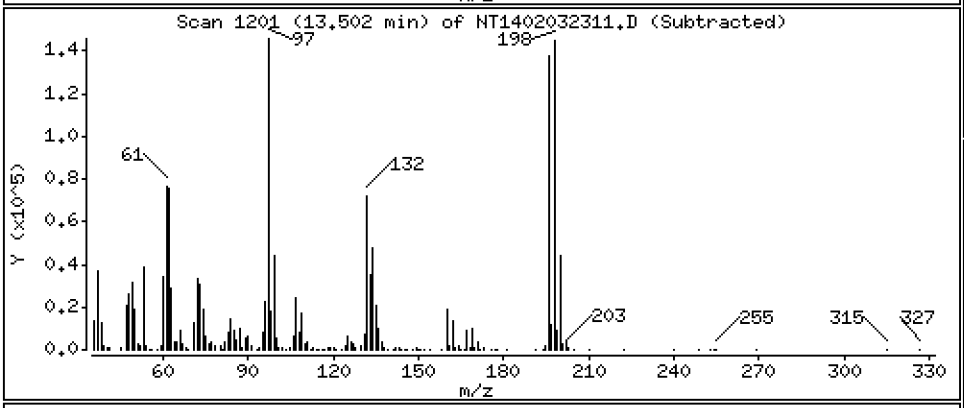
Column phase: ZB-5msi

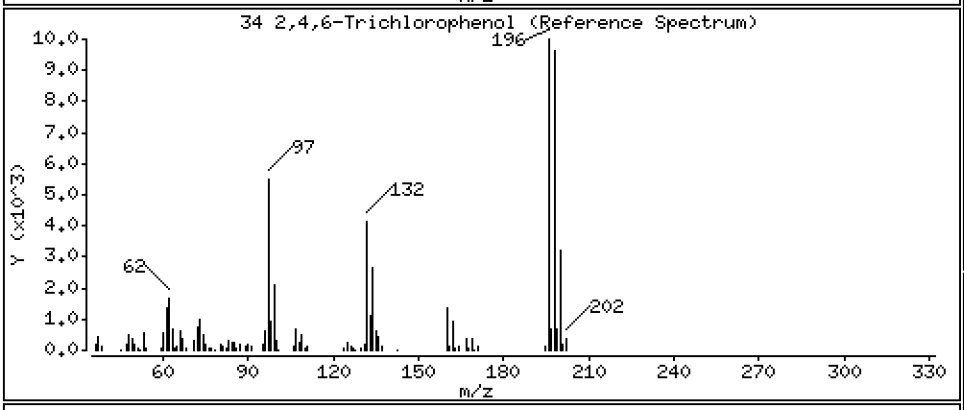
Column diameter: 0.25

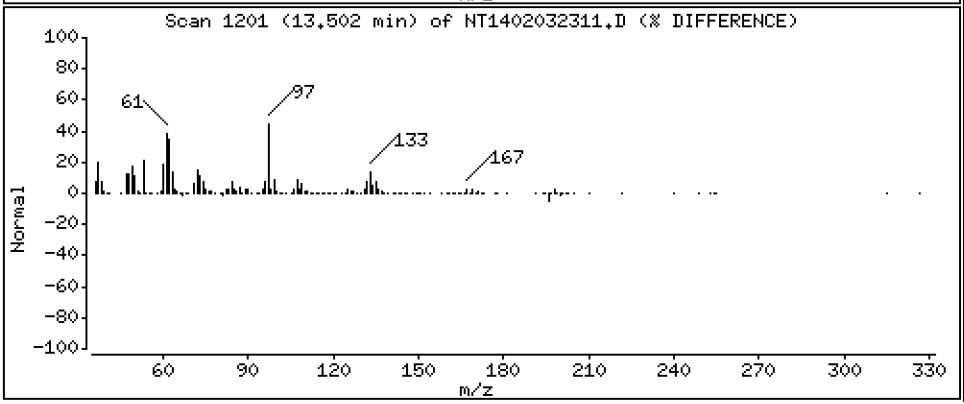
34 2,4,6-Trichlorophenol

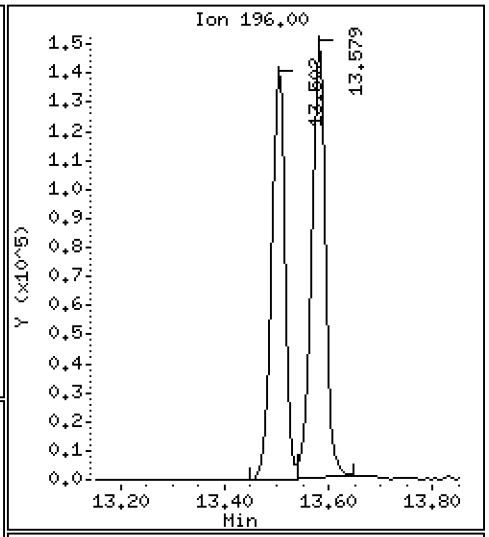
Concentration: 12.50 ug/mL

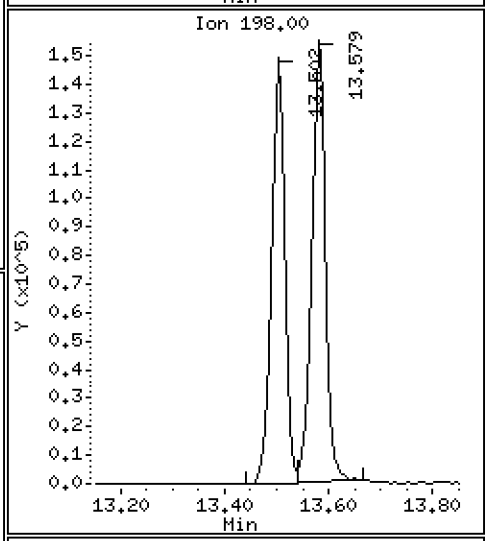


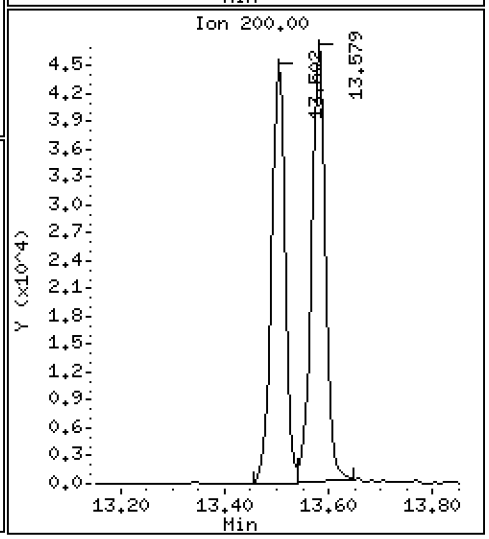












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

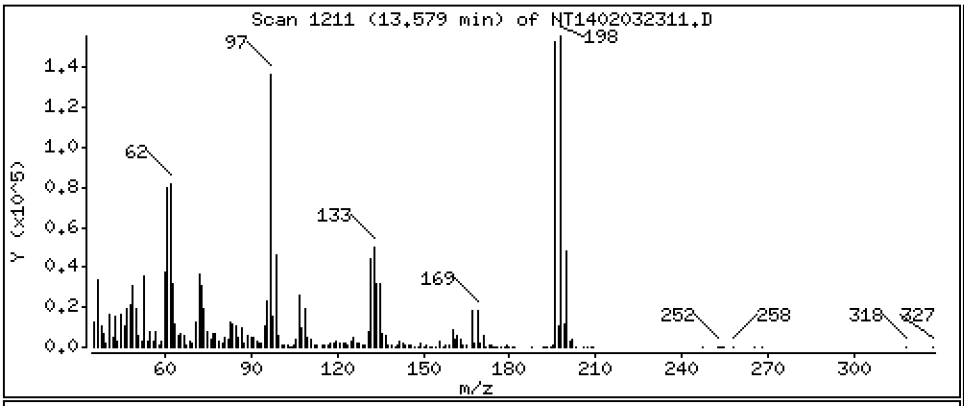
Operator: DSD

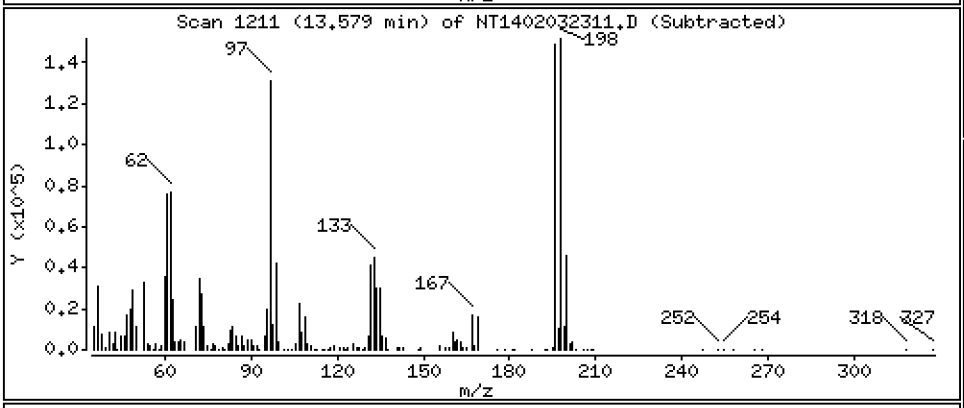
Column phase: ZB-5msi

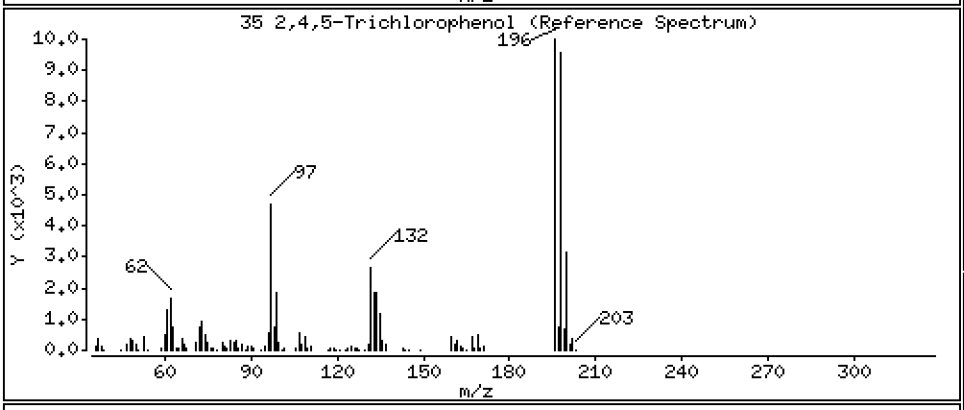
Column diameter: 0.25

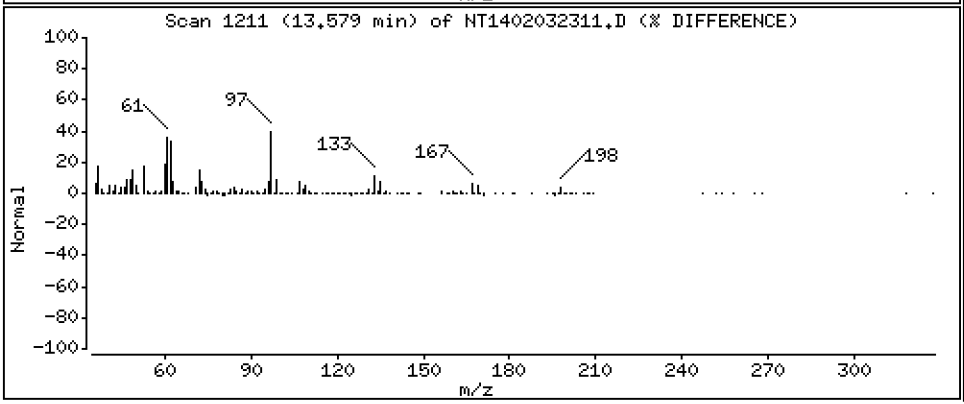
35 2,4,5-Trichlorophenol

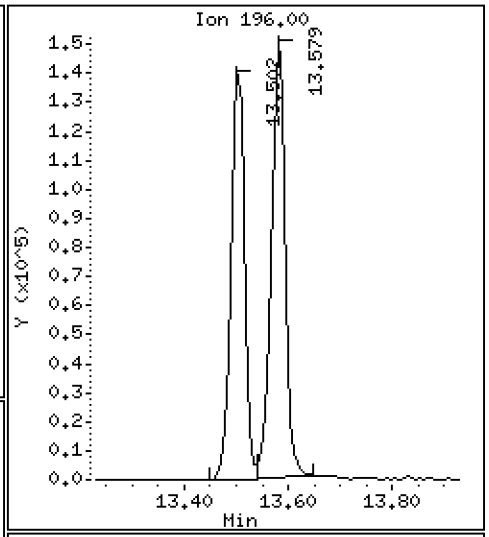
Concentration: 12.31 ug/mL

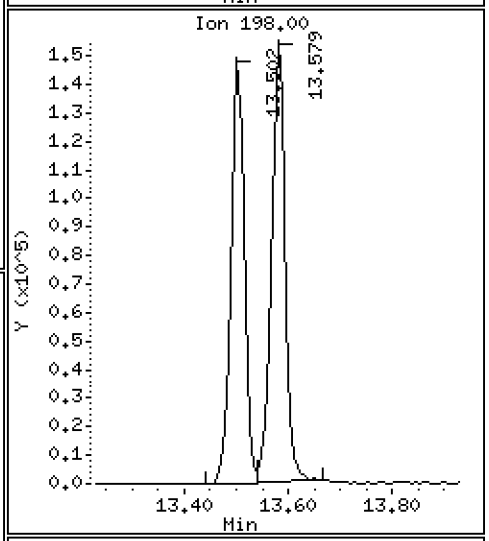


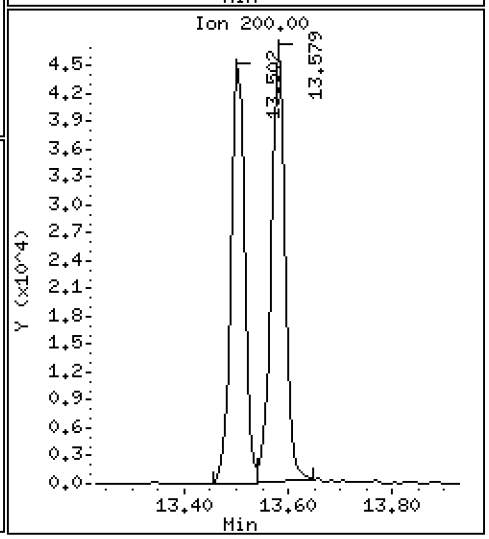












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

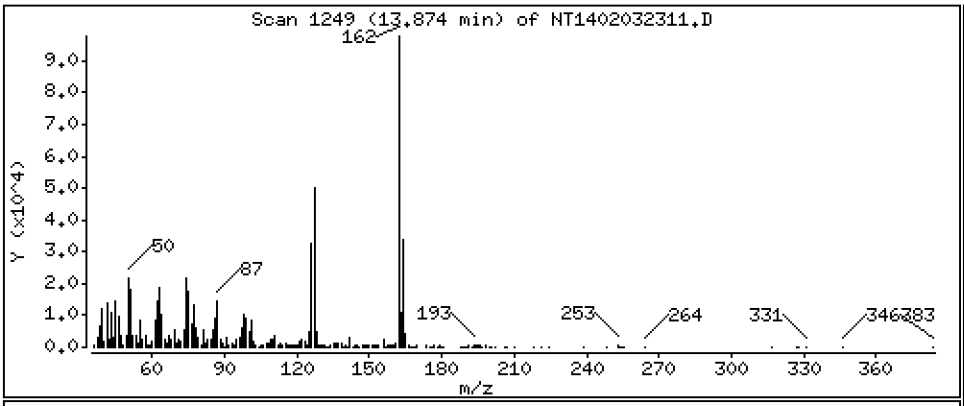
Operator: DSD

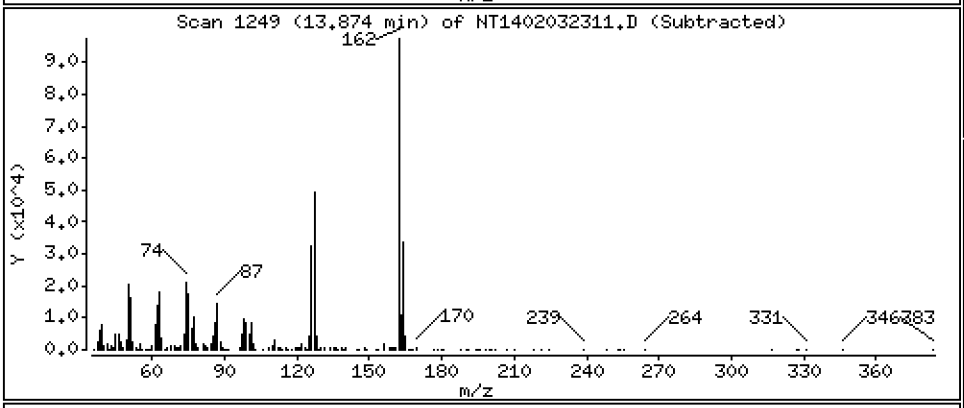
Column phase: ZB-5msi

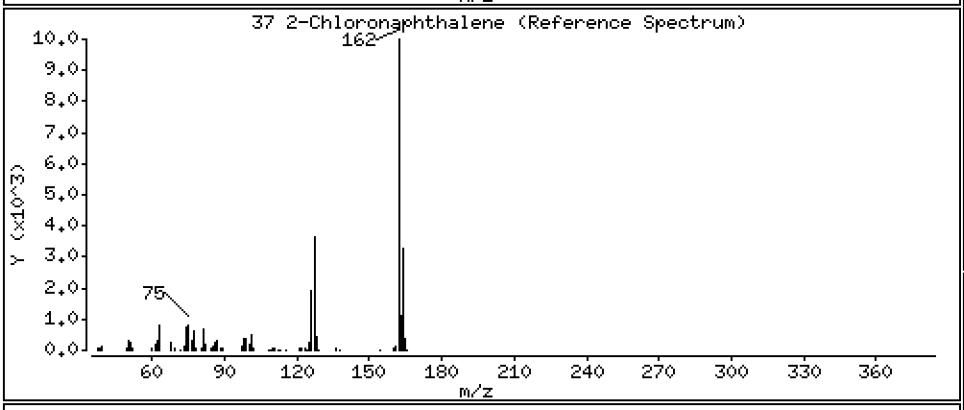
Column diameter: 0.25

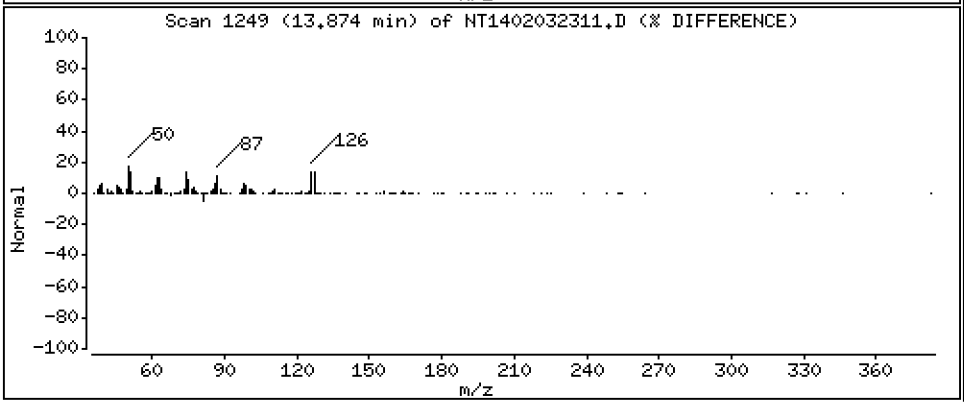
37 2-Chloronaphthalene

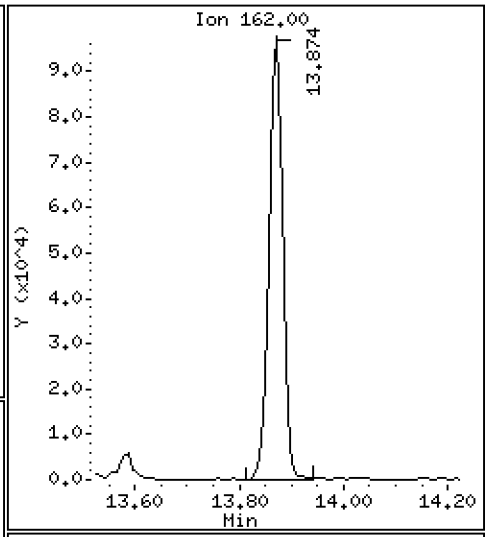
Concentration: 3.875 ug/mL

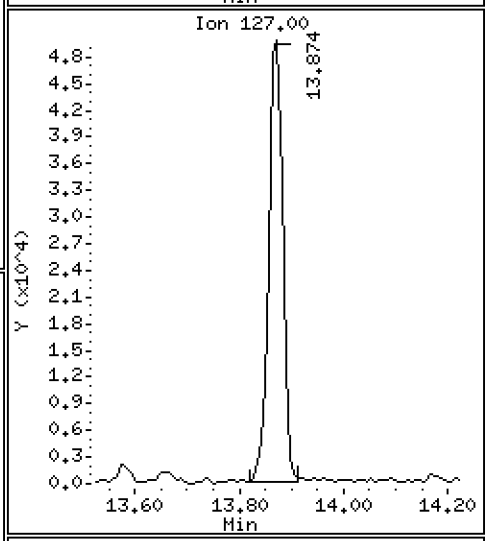


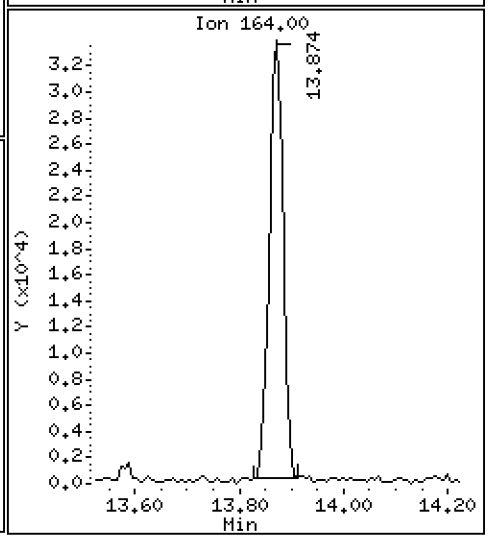












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

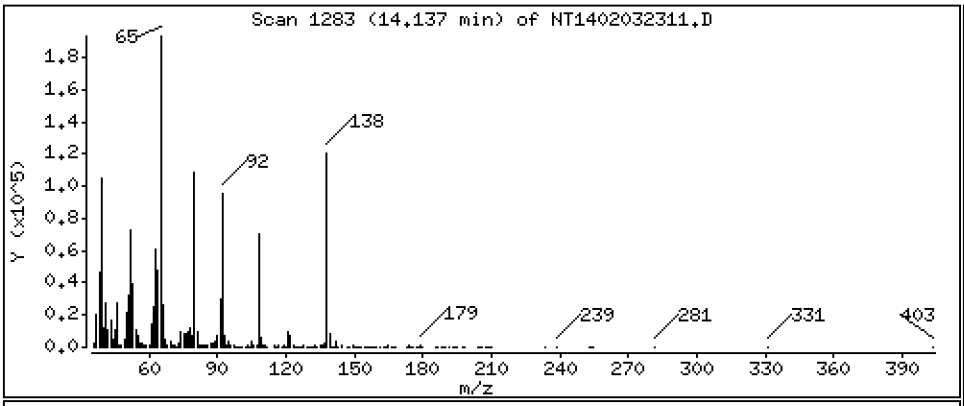
Operator: DSD

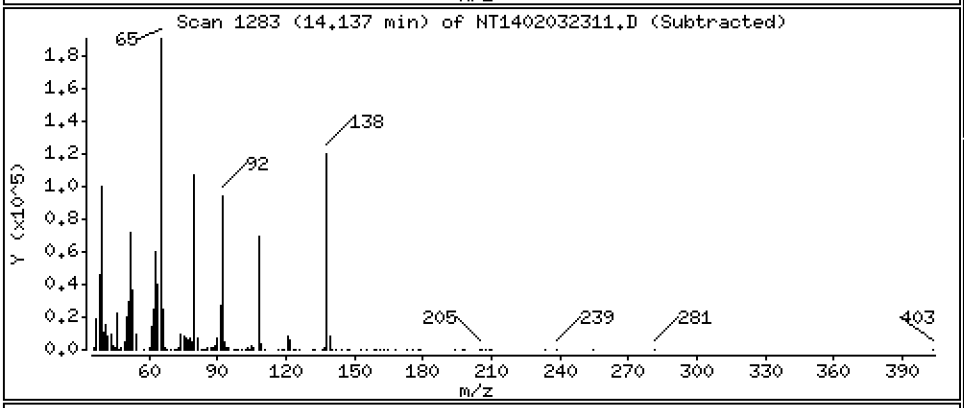
Column phase: ZB-5msi

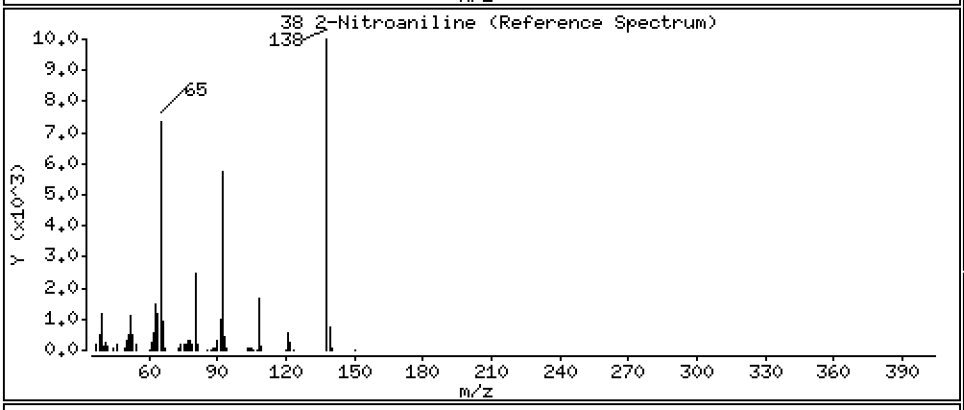
Column diameter: 0.25

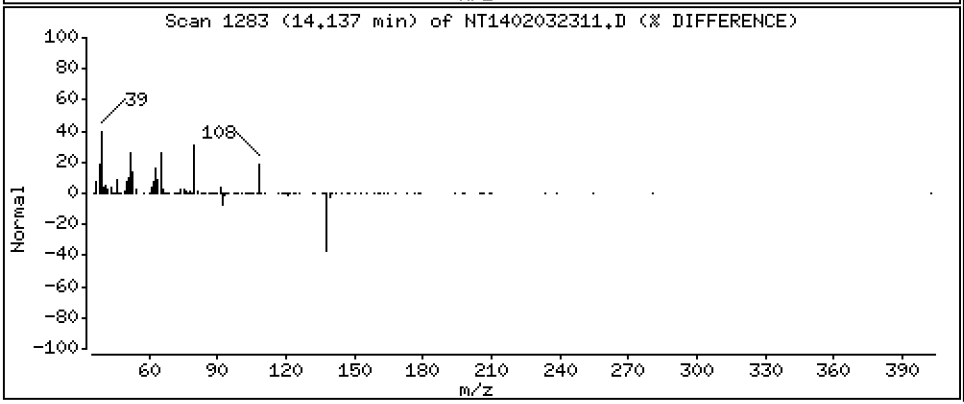
38 2-Nitroaniline

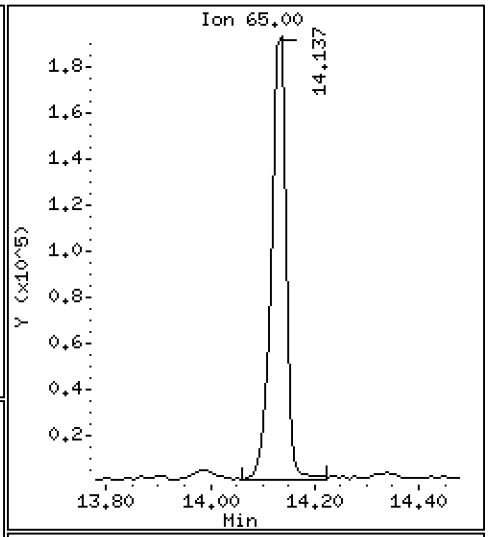
Concentration: 13.93 ug/mL

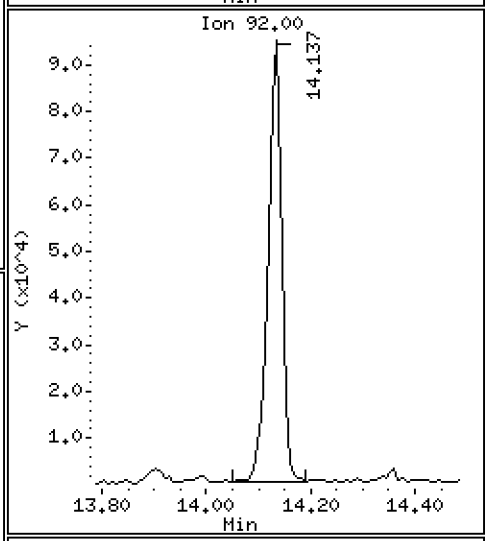


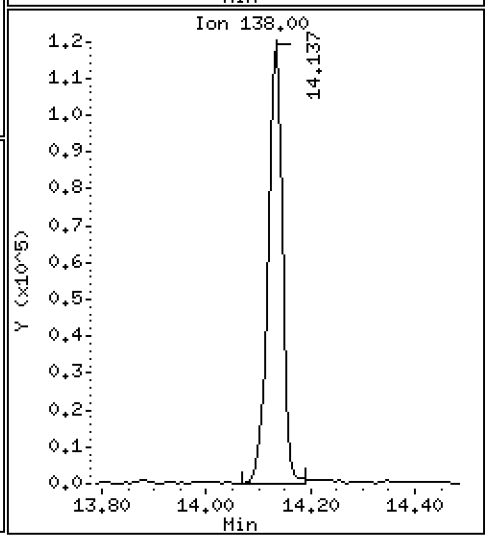












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

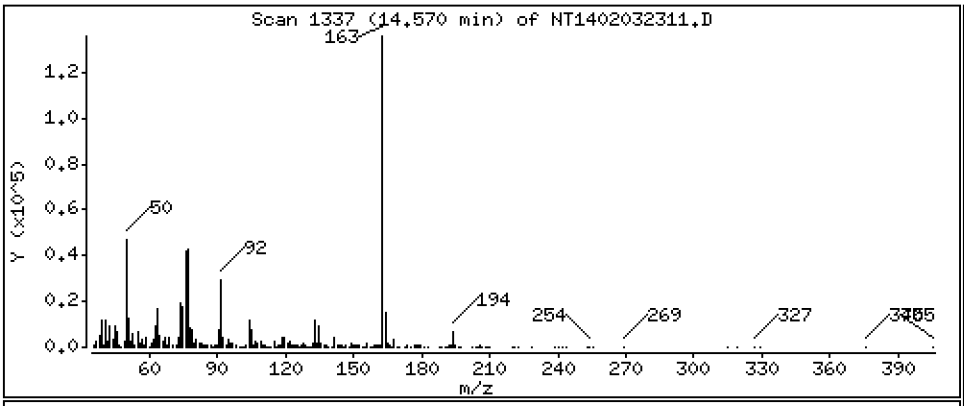
Operator: DSD

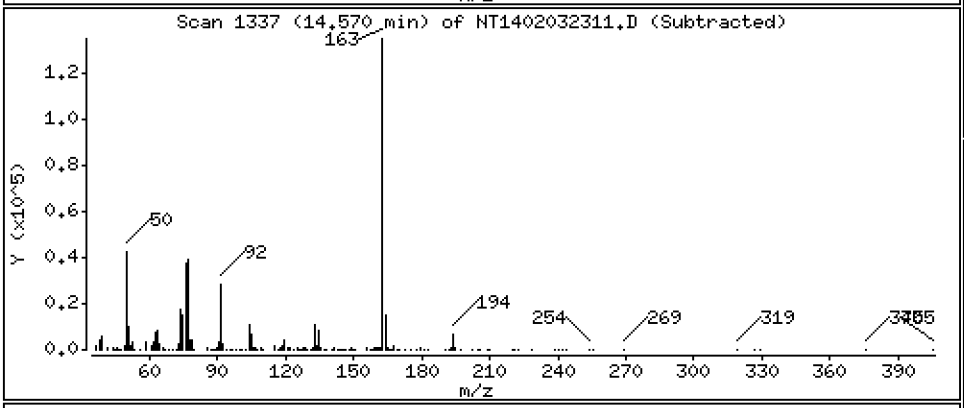
Column phase: ZB-5msi

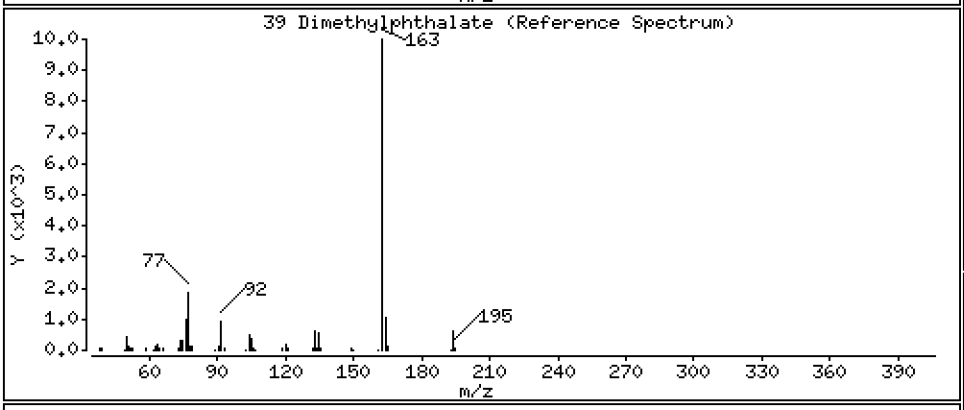
Column diameter: 0.25

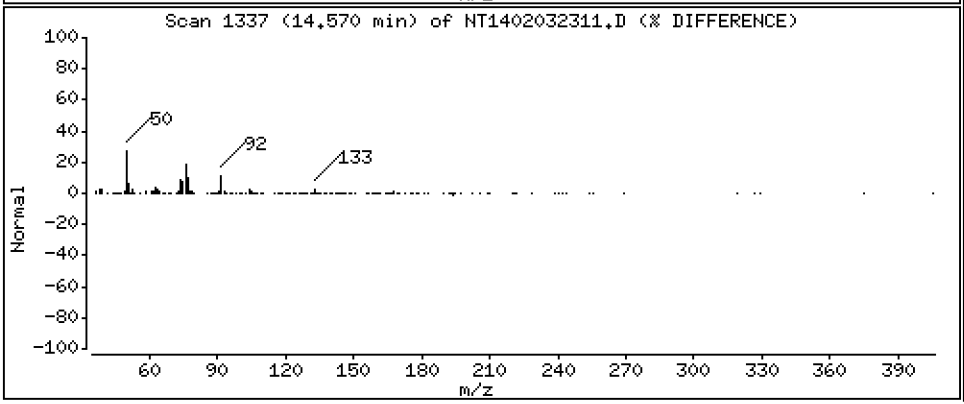
39 Dimethylphthalate

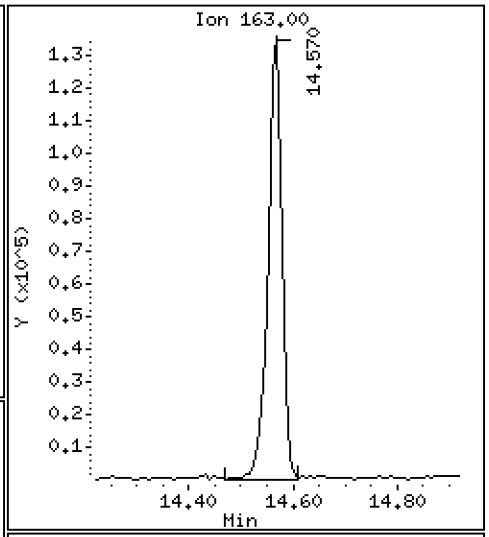
Concentration: 4.238 ug/mL

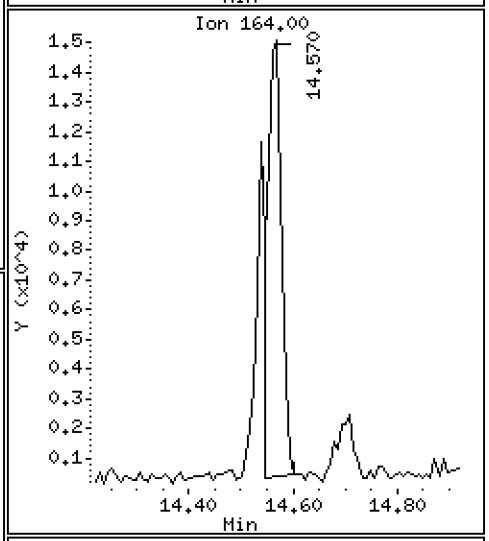


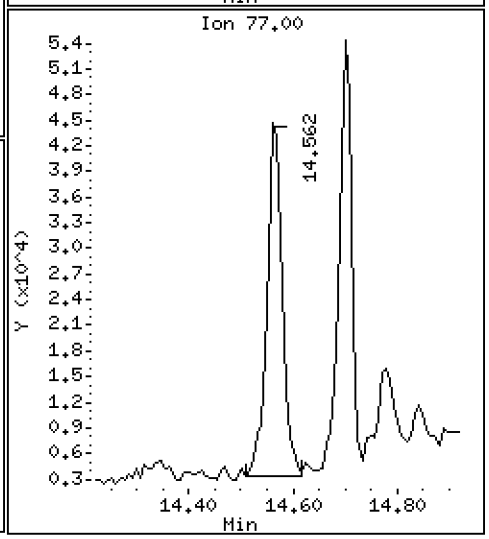












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

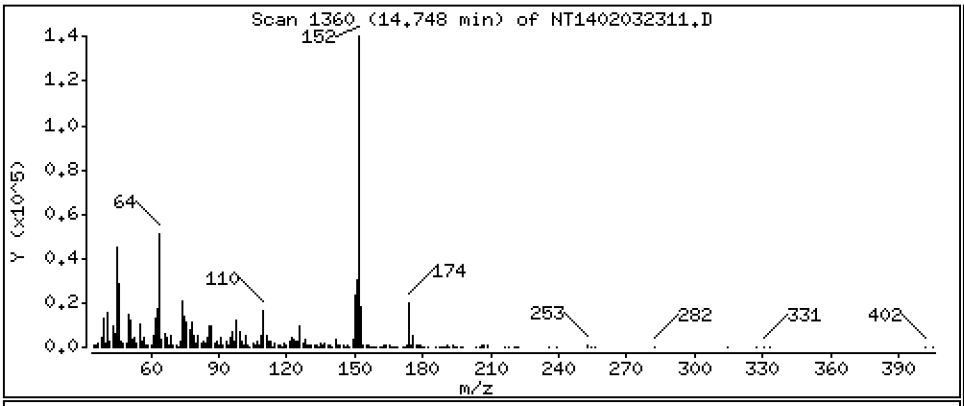
Operator: DSD

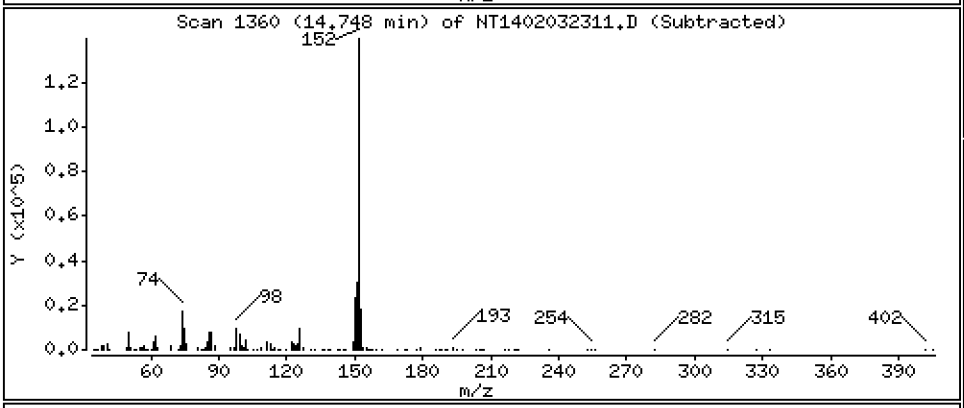
Column phase: ZB-5msi

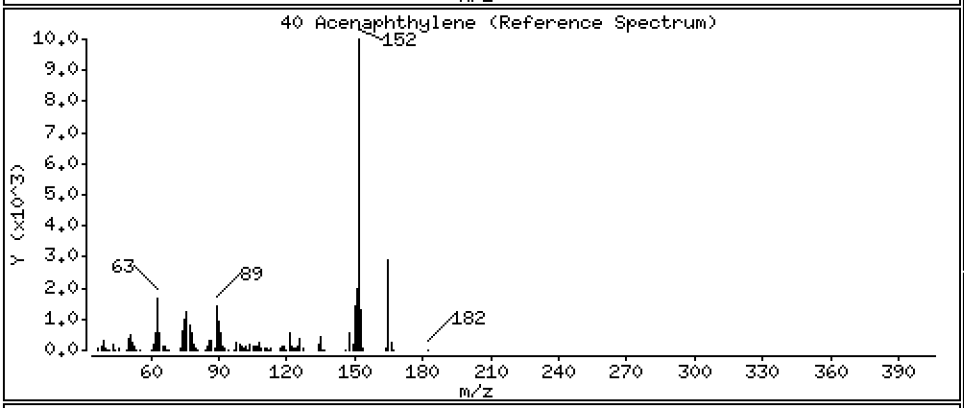
Column diameter: 0.25

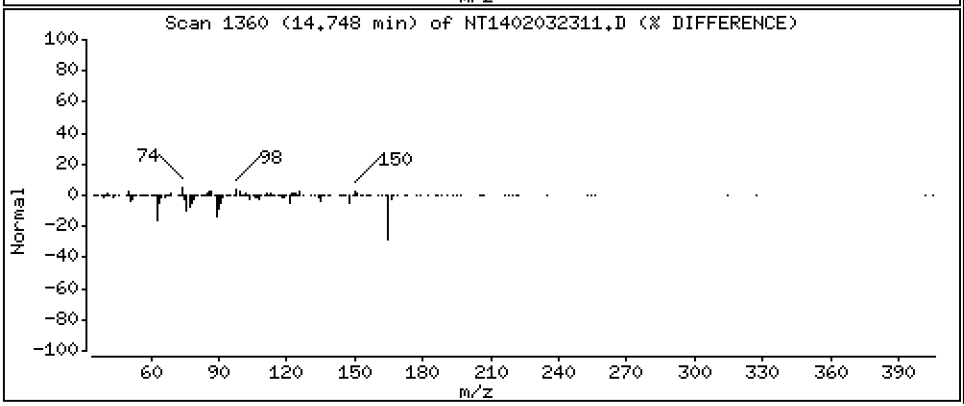
40 Acenaphthylene

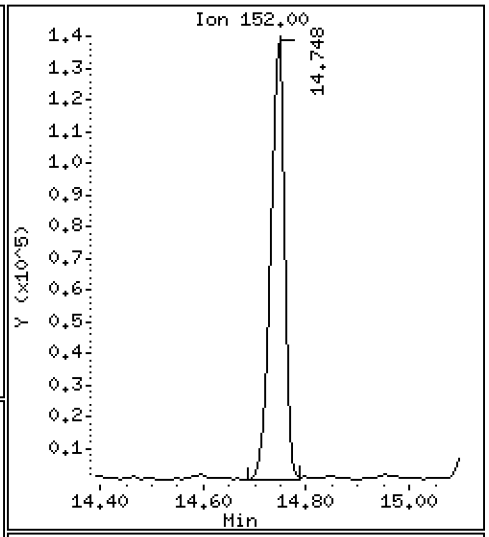
Concentration: 3.614 ug/mL

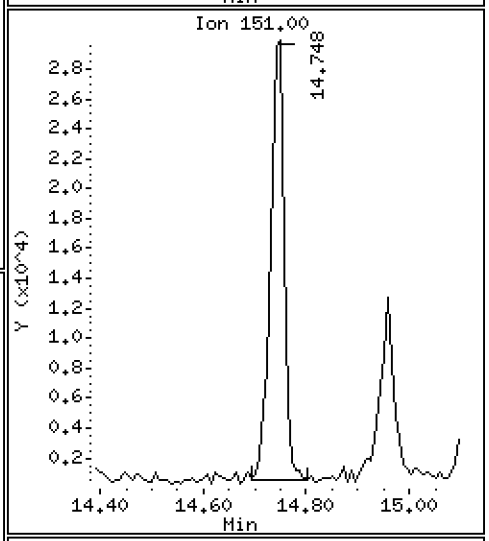


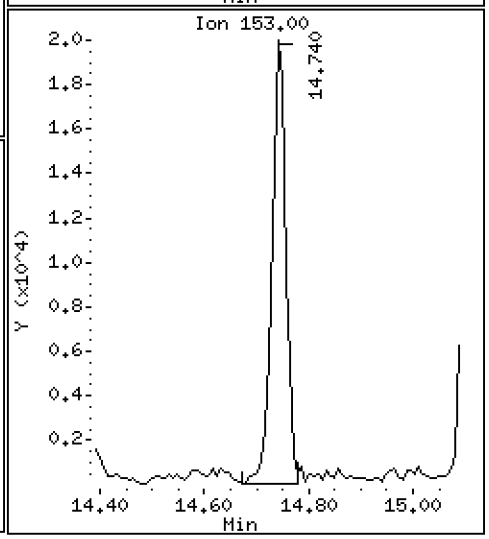












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

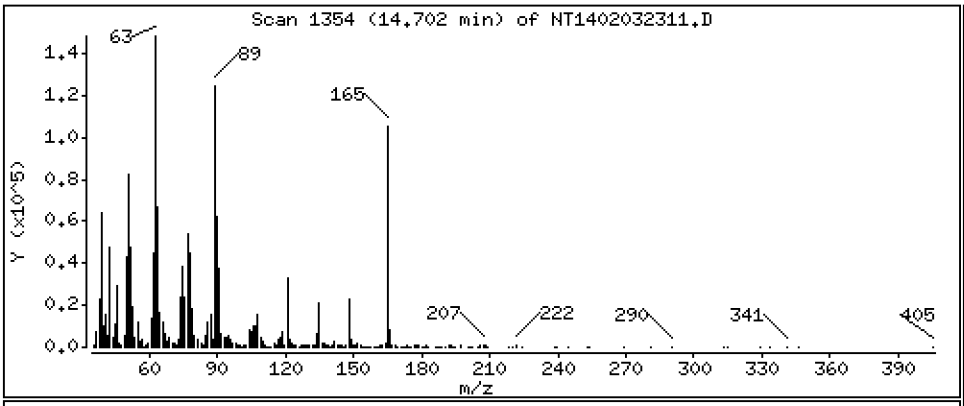
Operator: DSD

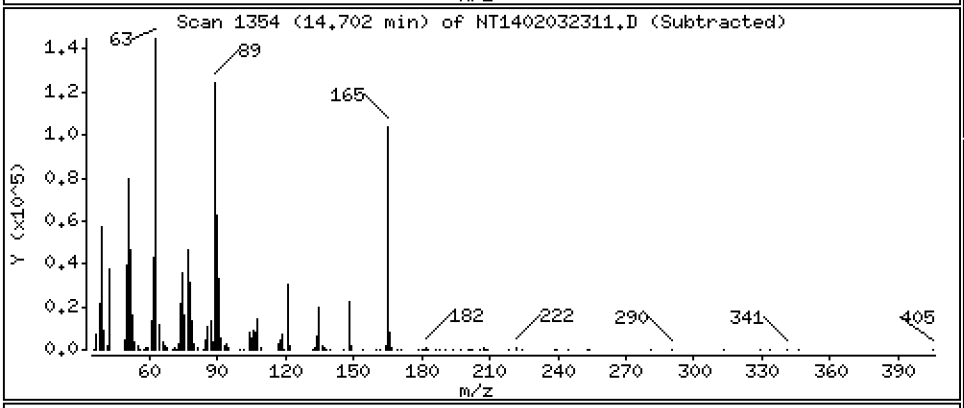
Column phase: ZB-5msi

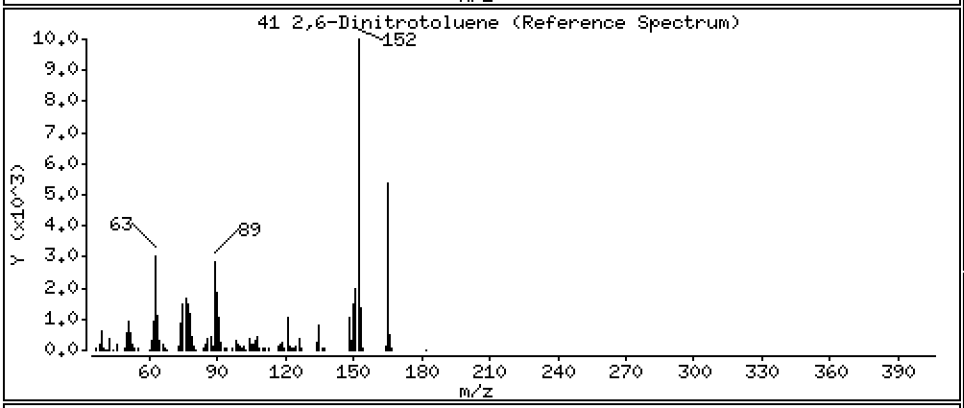
Column diameter: 0.25

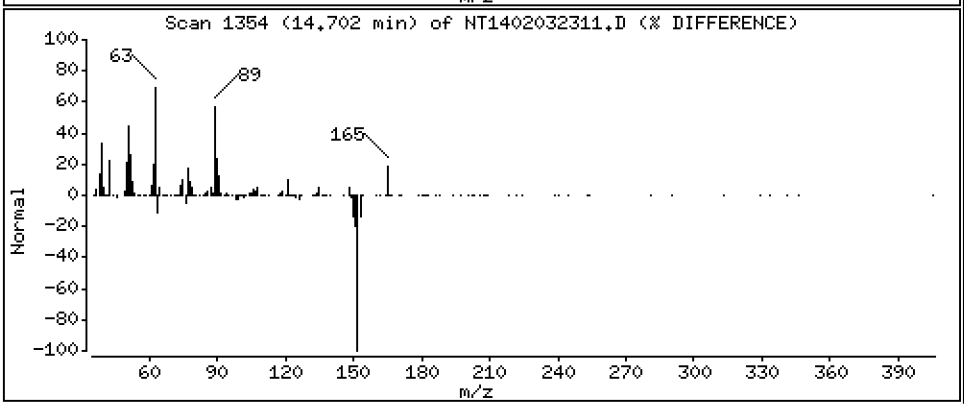
41 2,6-Dinitrotoluene

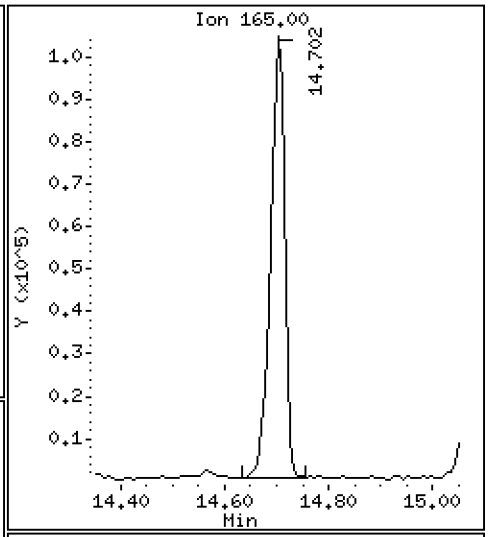
Concentration: 14.43 ug/mL

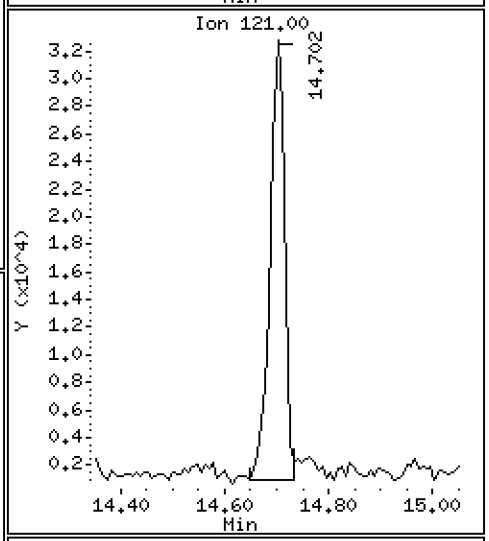


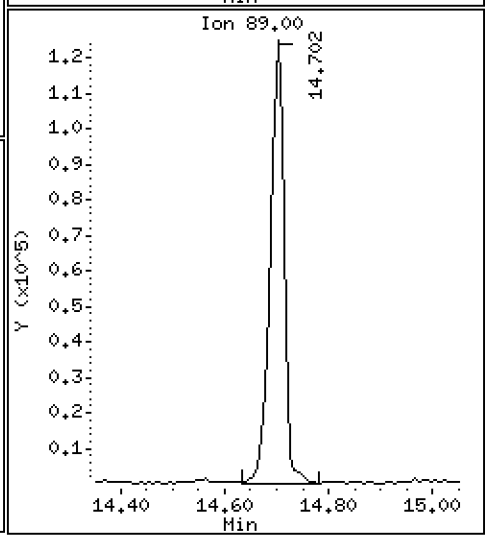












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

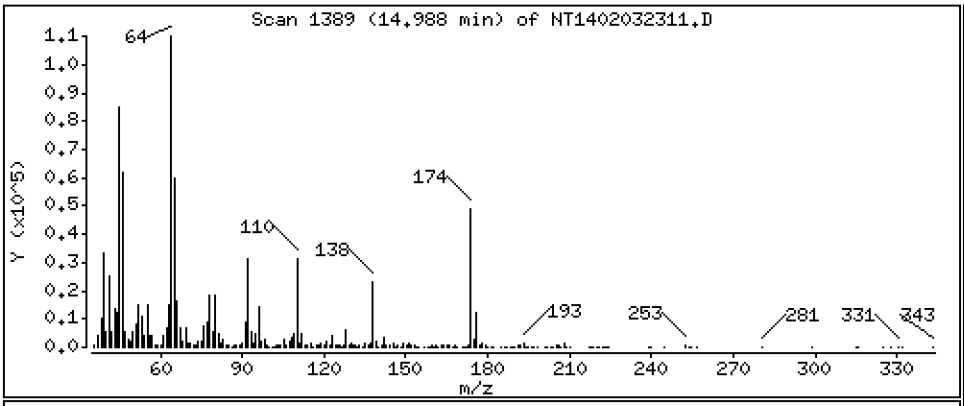
Operator: DSD

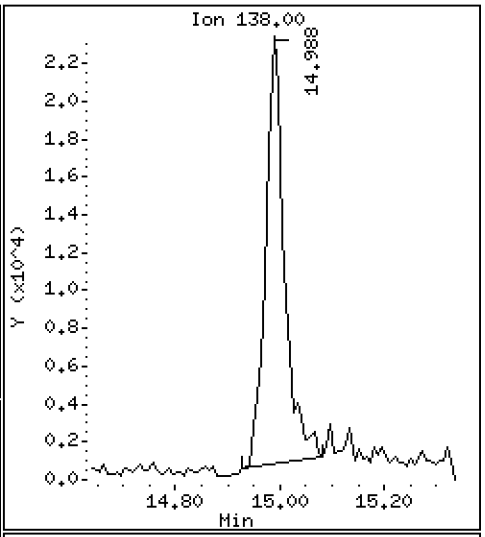
Column phase: ZB-5msi

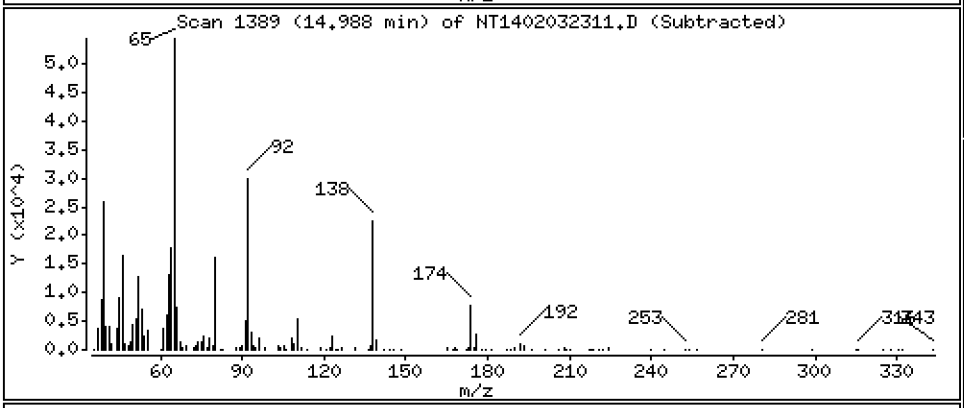
Column diameter: 0.25

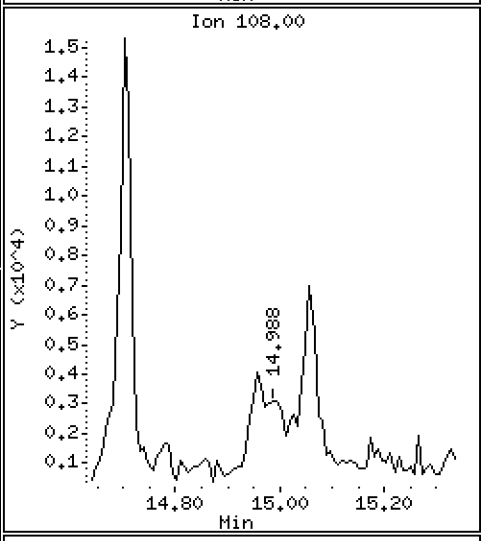
43 3-Nitroaniline

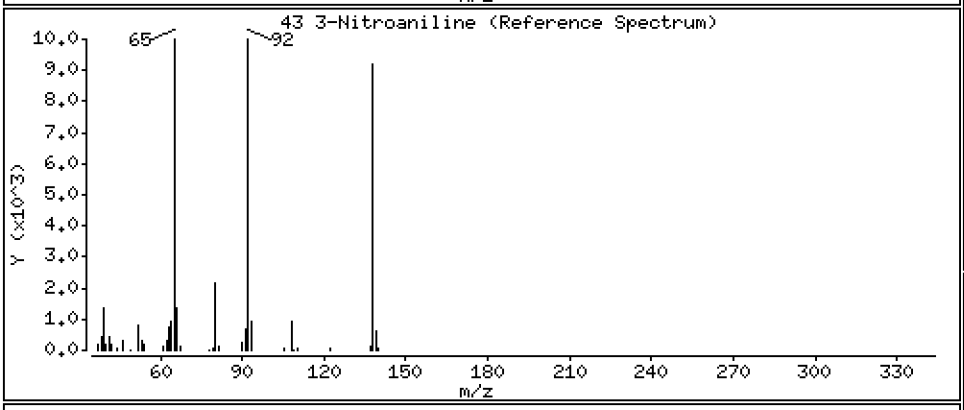
Concentration: 4.367 ug/mL

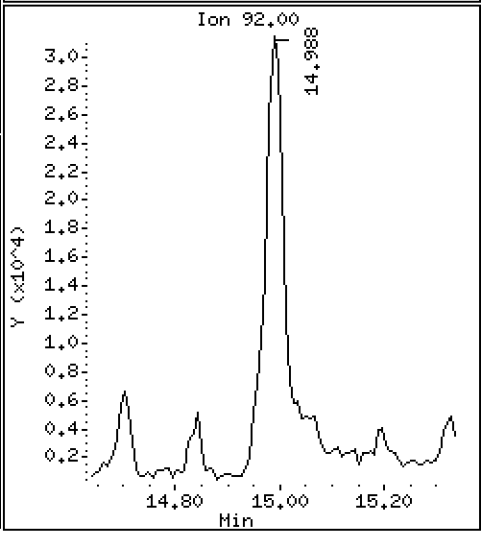


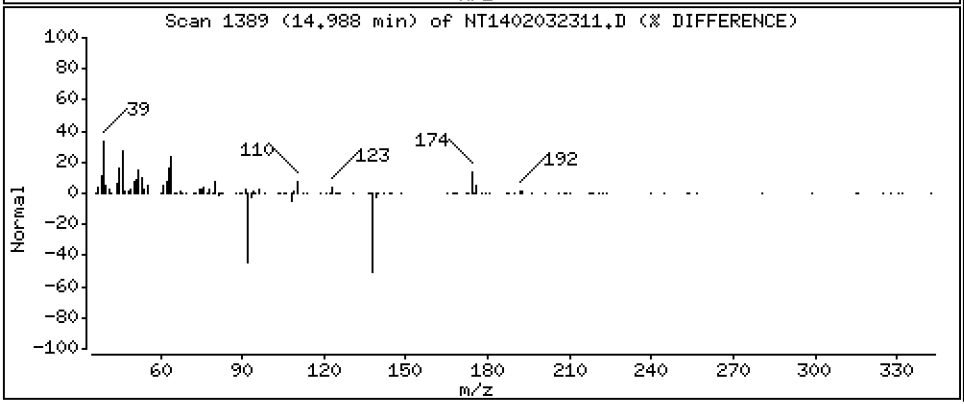












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

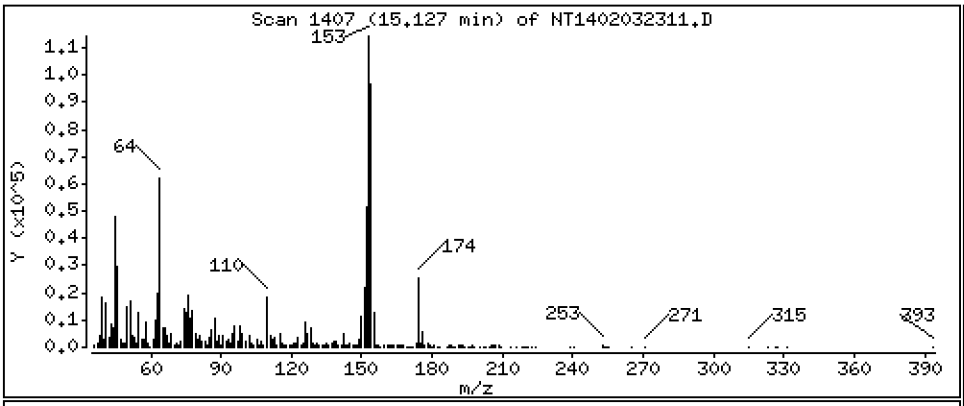
Operator: DSD

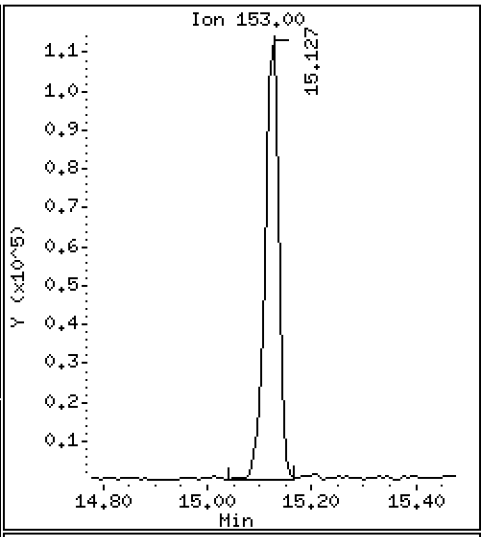
Column phase: ZB-5msi

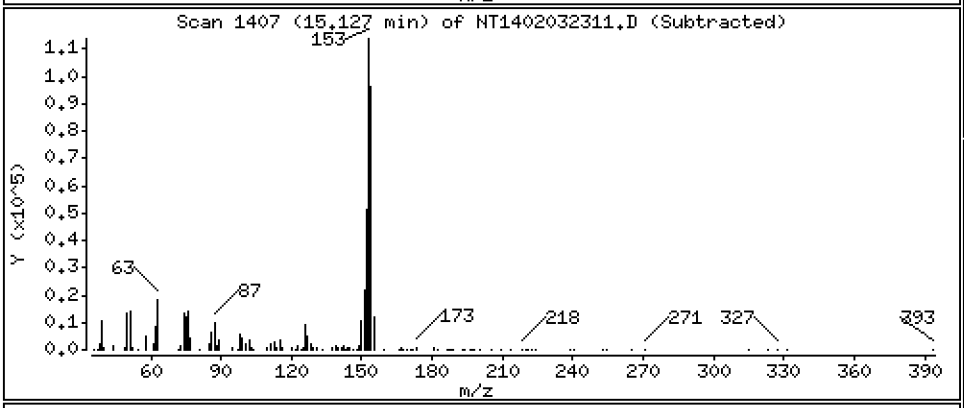
Column diameter: 0.25

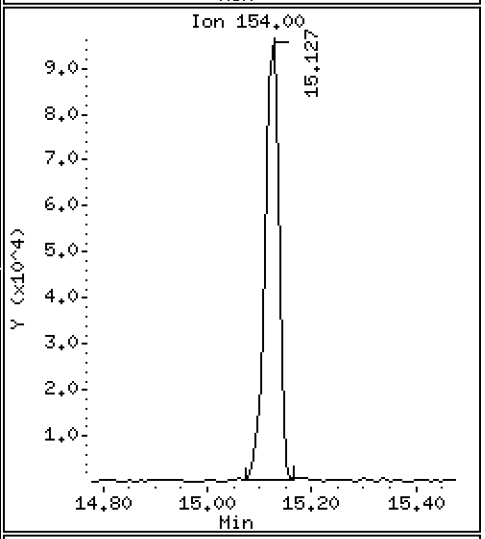
44 Acenaphthene

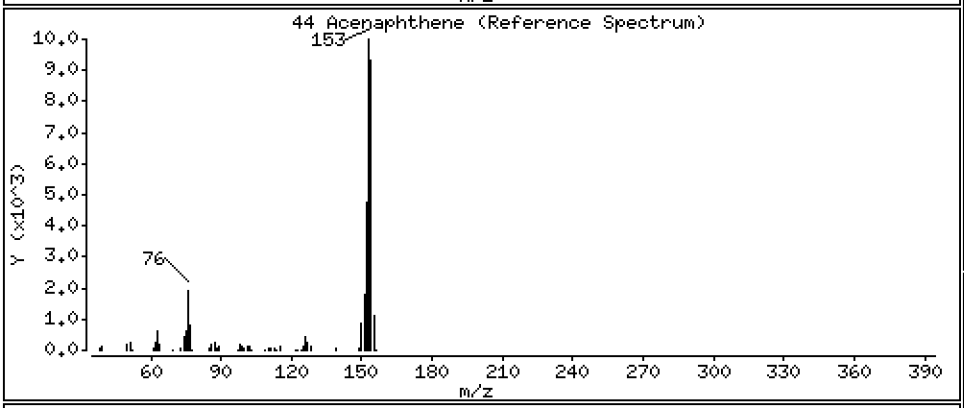
Concentration: 4.191 ug/mL

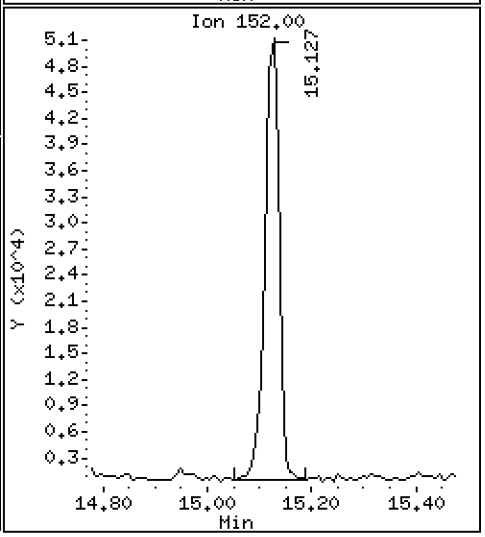


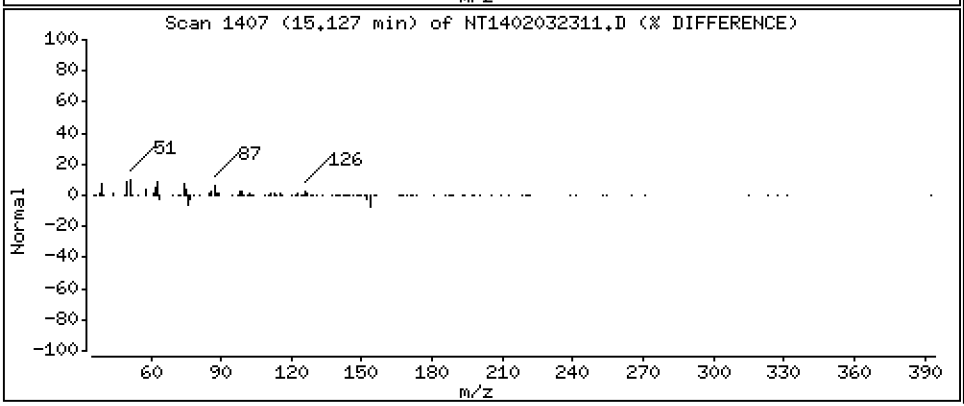












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

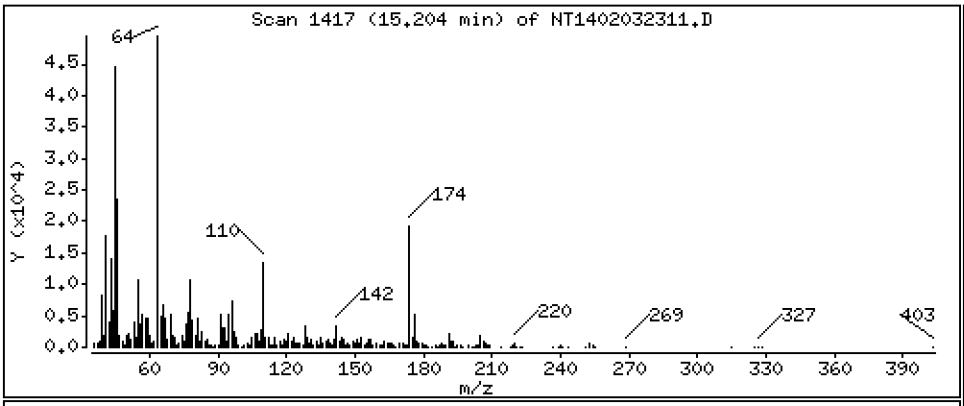
Operator: DSD

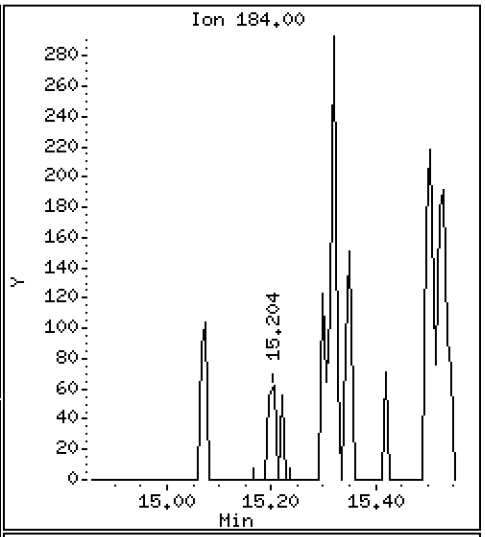
Column phase: ZB-5msi

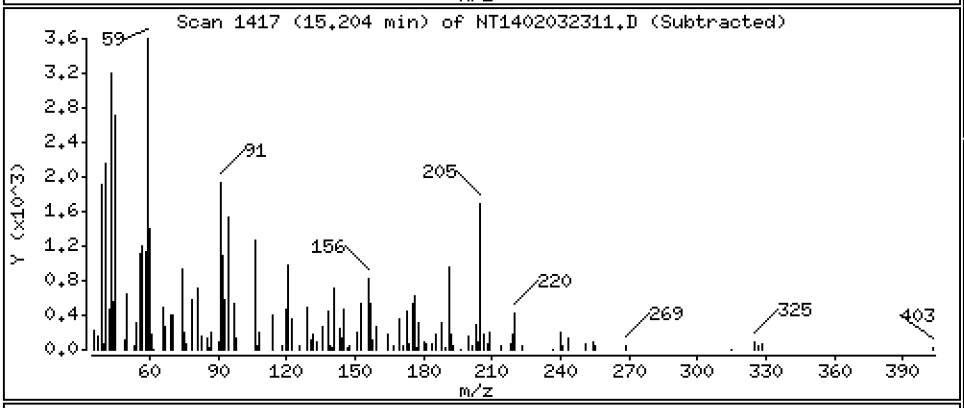
Column diameter: 0.25

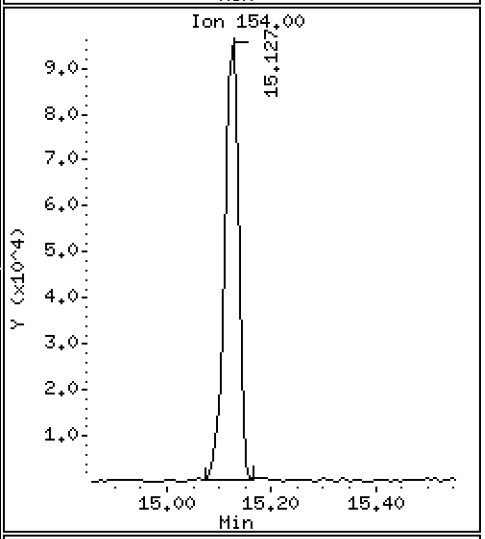
45 2,4-Dinitrophenol

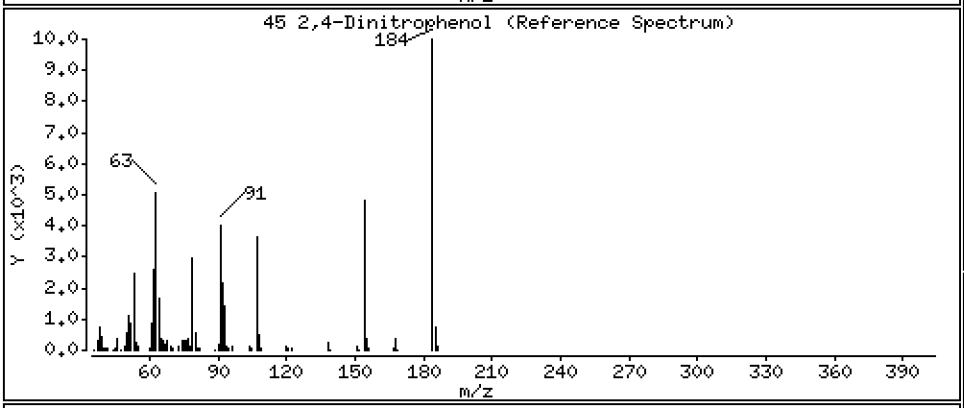
Concentration: 0.006198 ug/mL

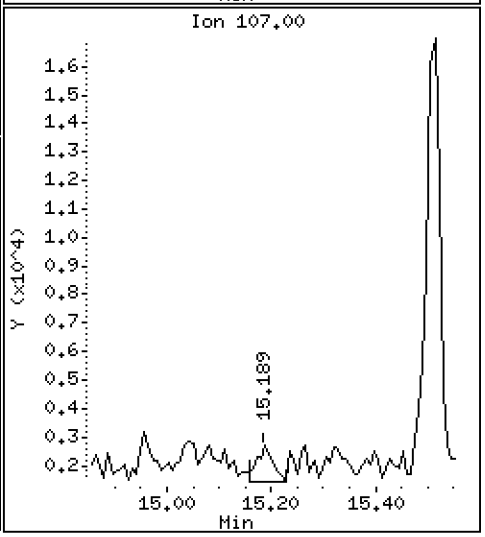


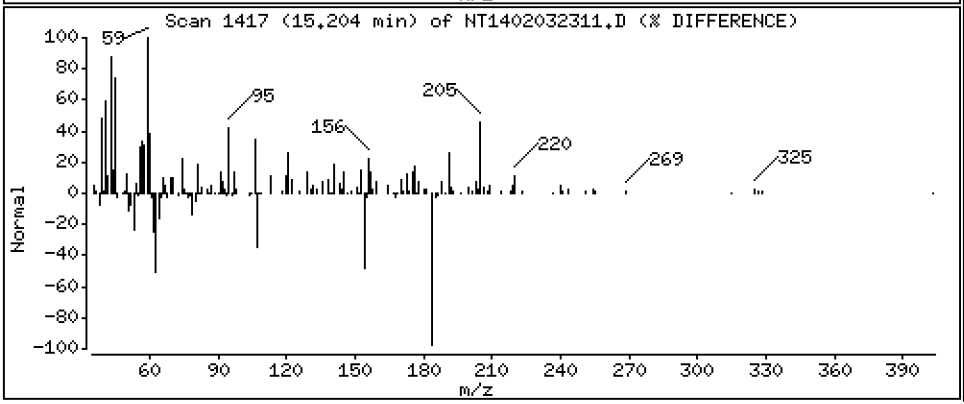












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

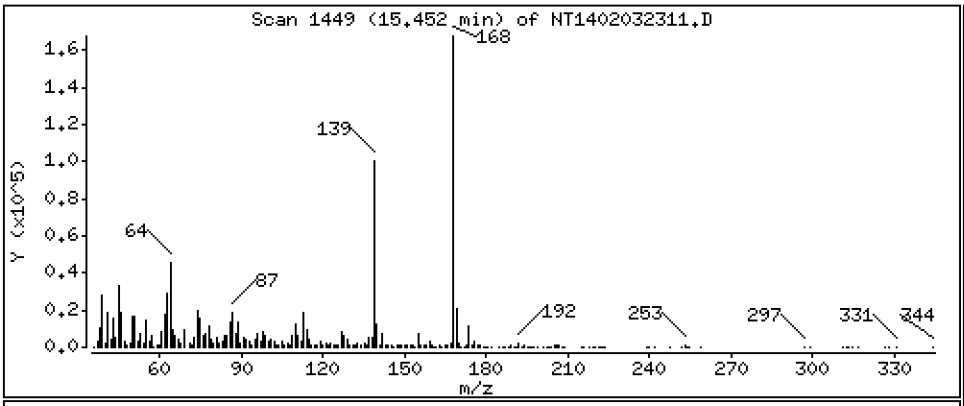
Operator: DSD

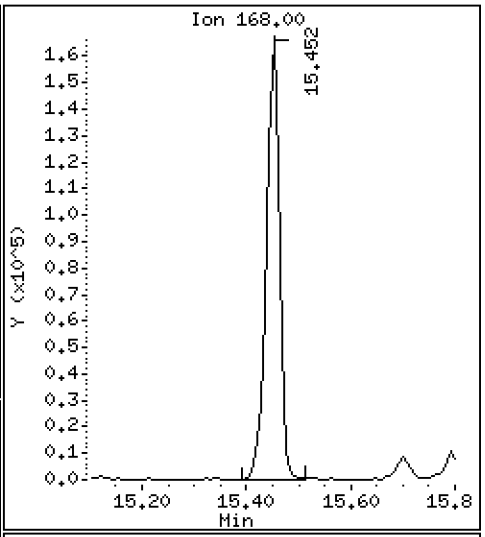
Column phase: ZB-5msi

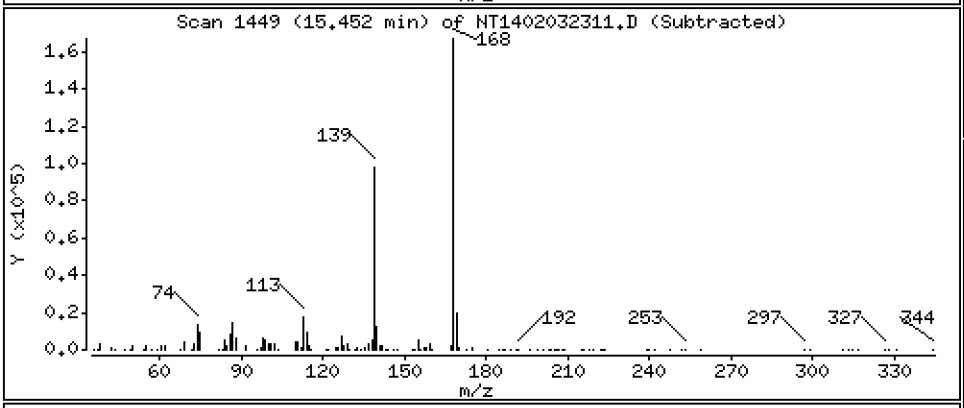
Column diameter: 0.25

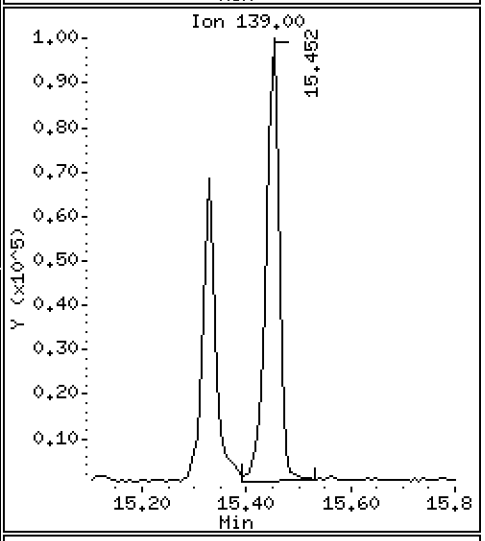
46 Dibenzofuran

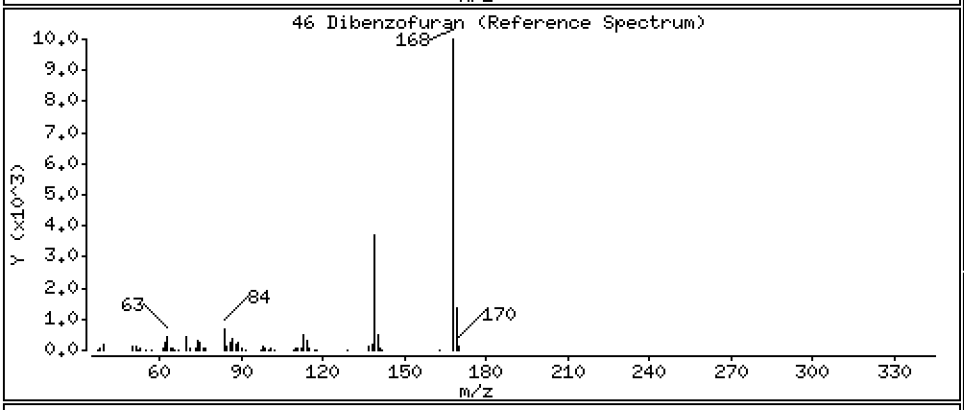
Concentration: 4.066 ug/mL

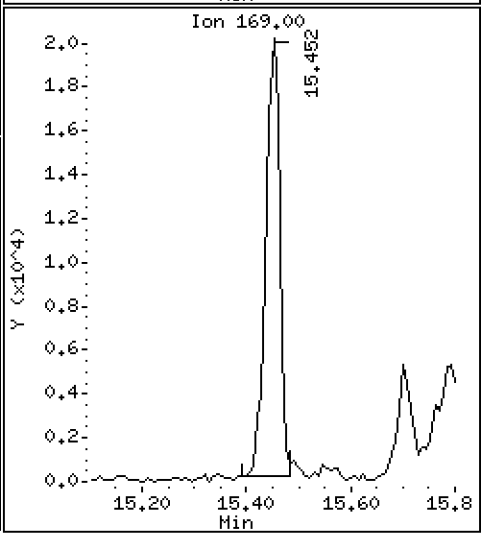


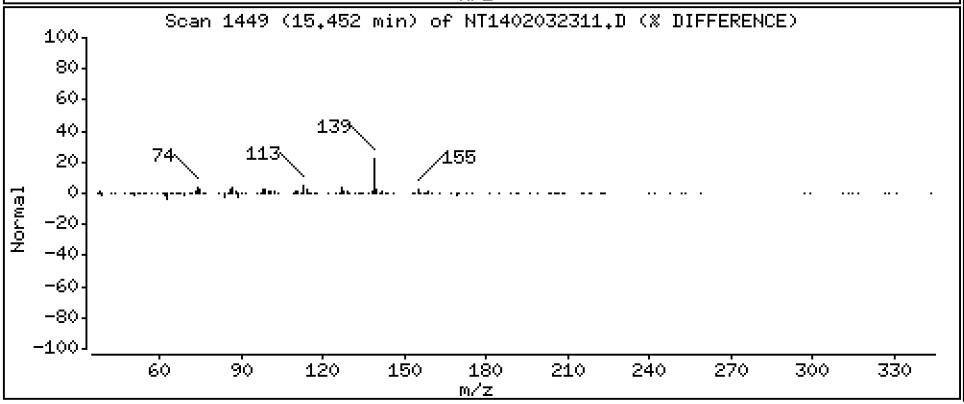












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

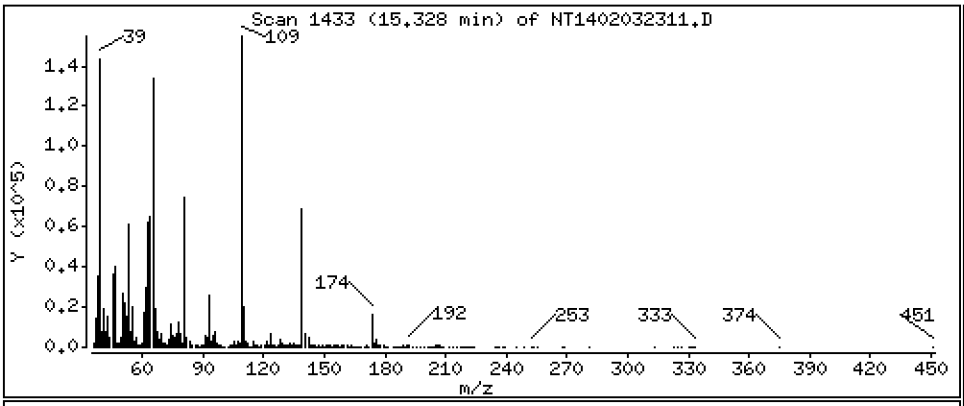
Operator: DSD

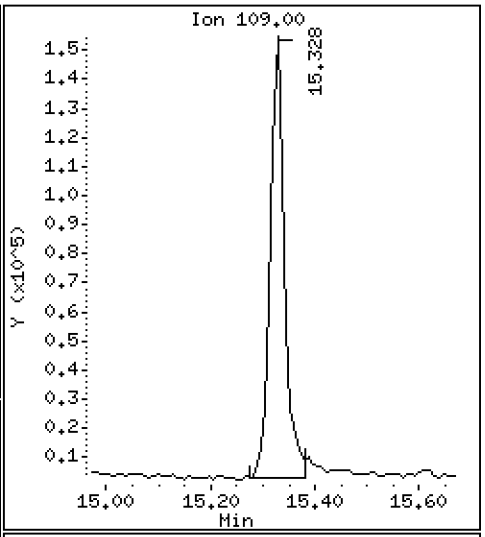
Column phase: ZB-5msi

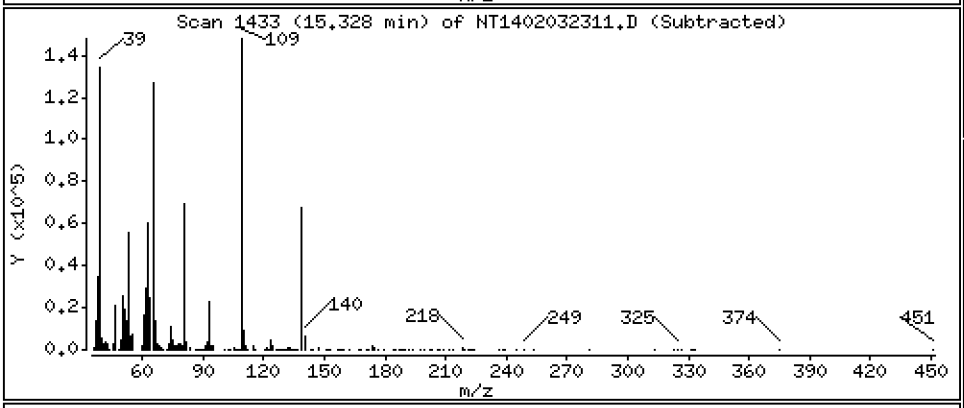
Column diameter: 0.25

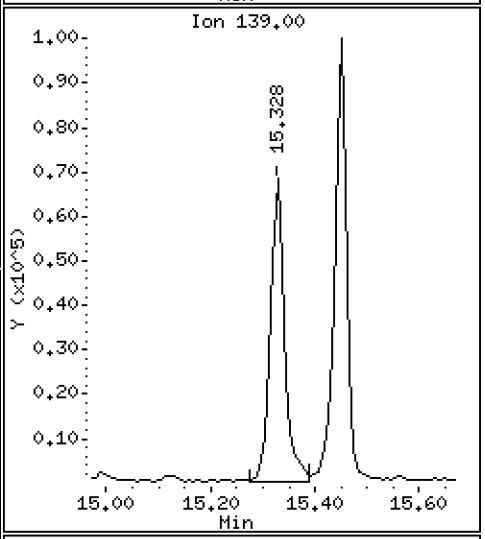
47 4-Nitrophenol

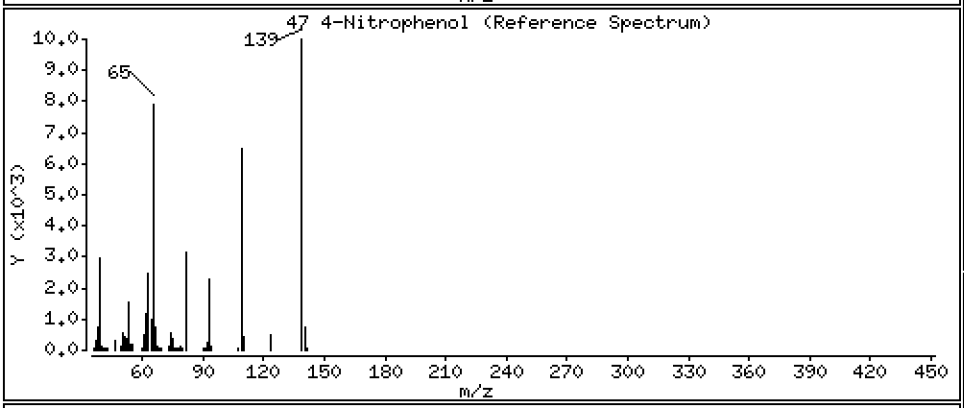
Concentration: 10.42 ug/mL

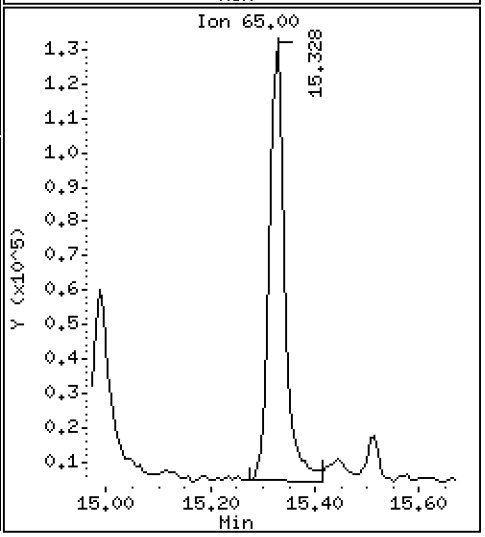


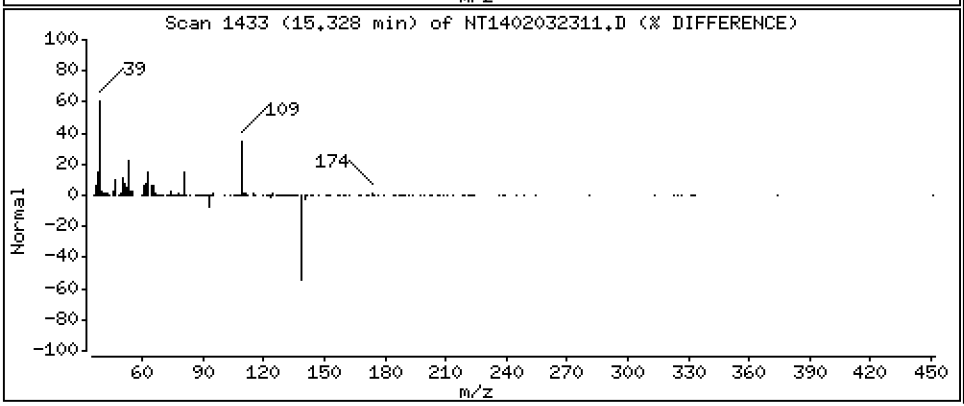












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

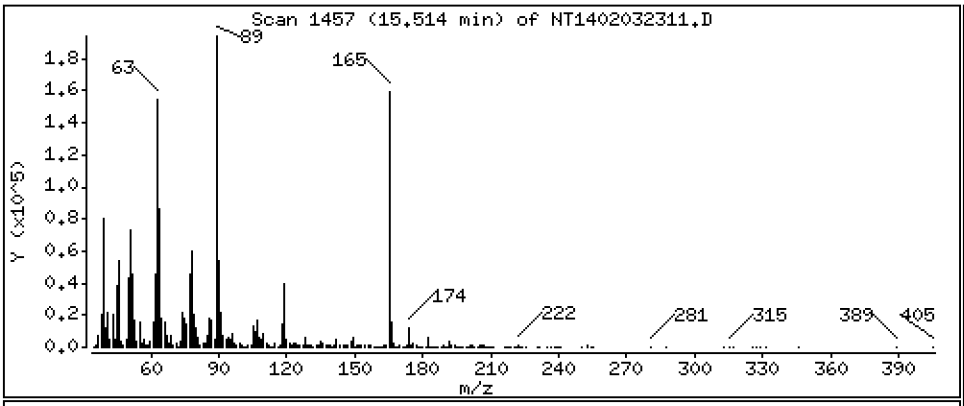
Operator: DSD

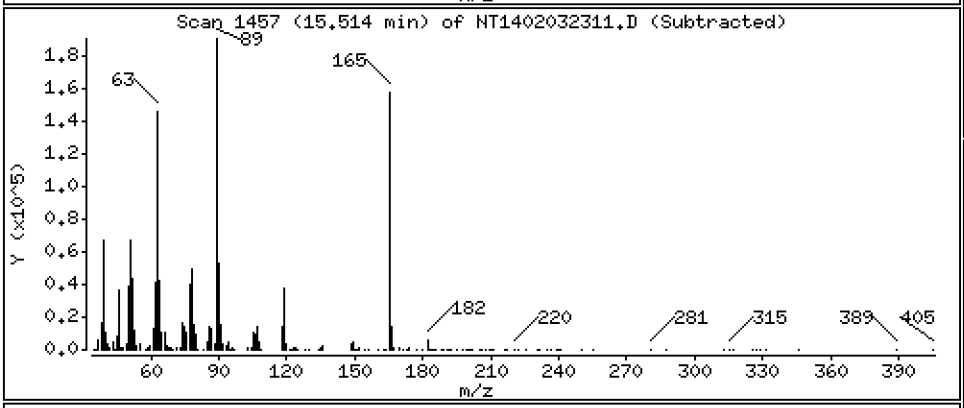
Column phase: ZB-5msi

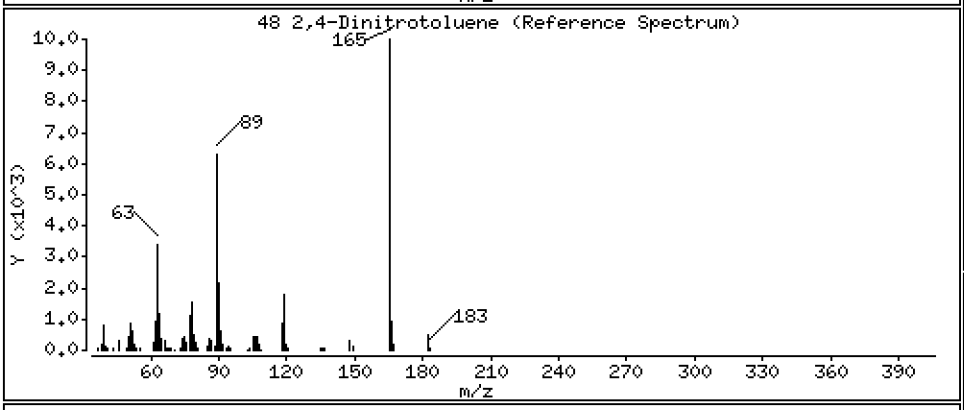
Column diameter: 0.25

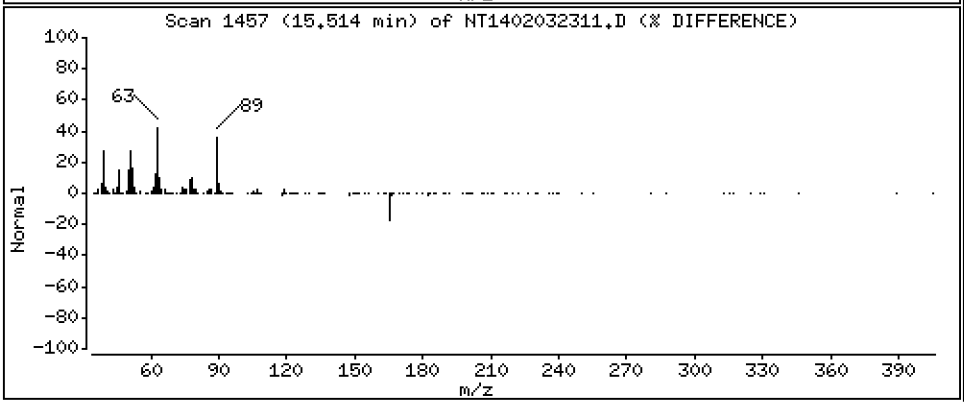
48 2,4-Dinitrotoluene

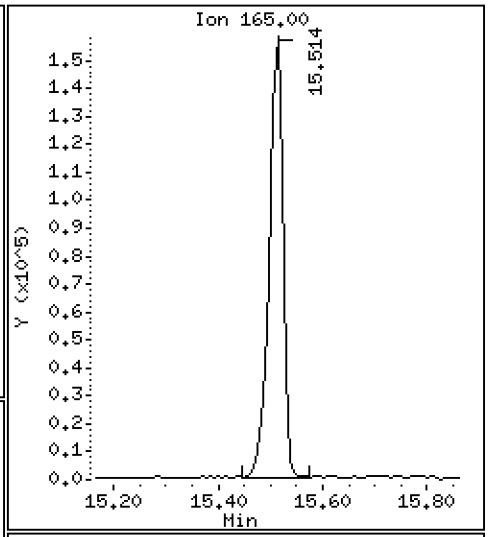
Concentration: 15.17 ug/mL

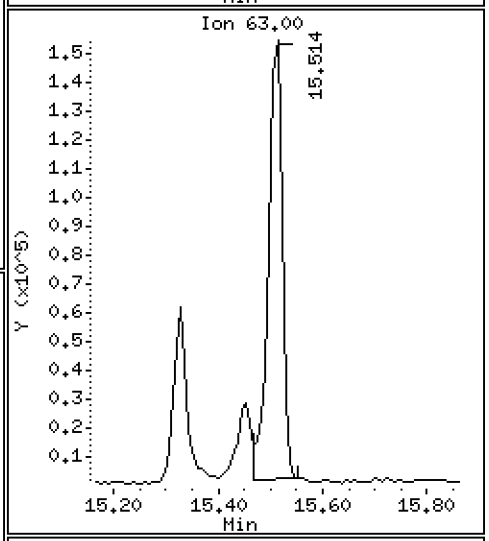


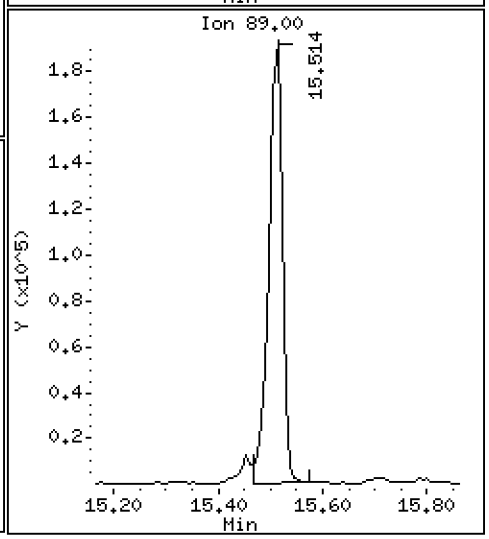












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

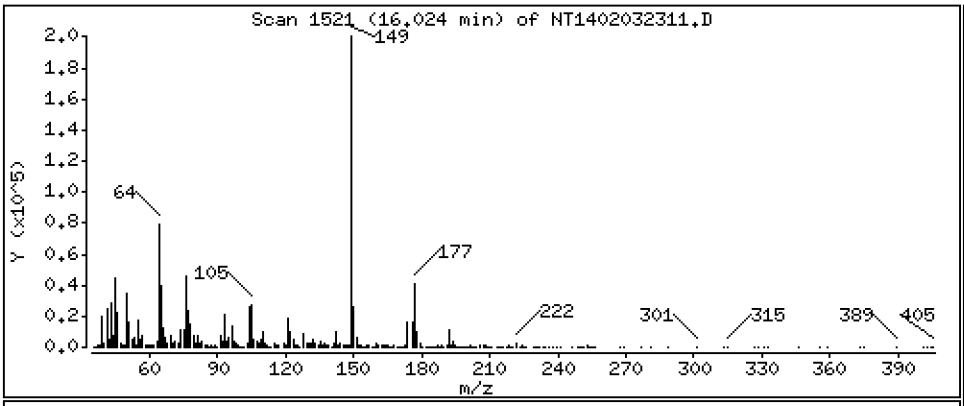
Operator: DSD

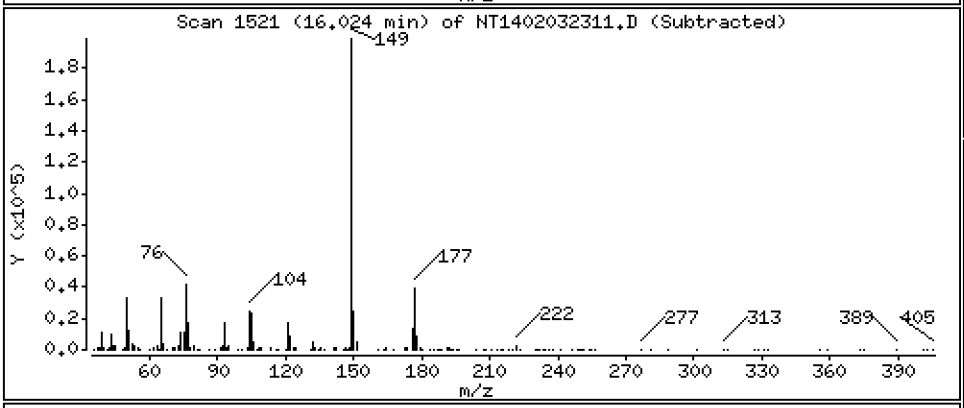
Column phase: ZB-5msi

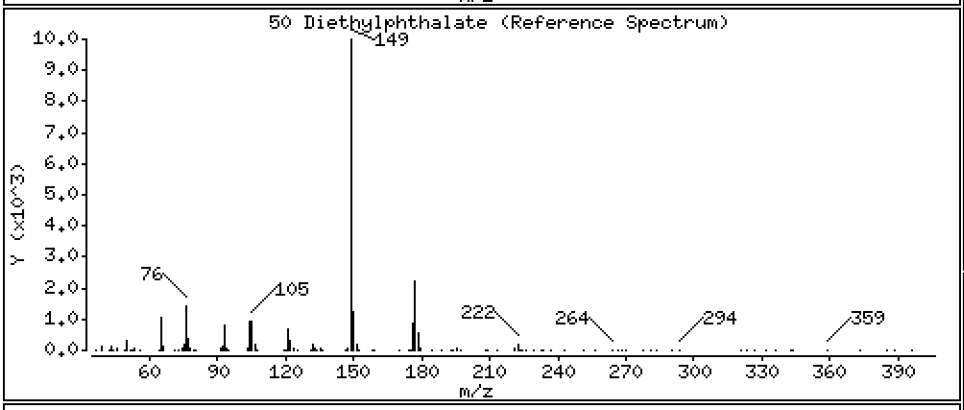
Column diameter: 0.25

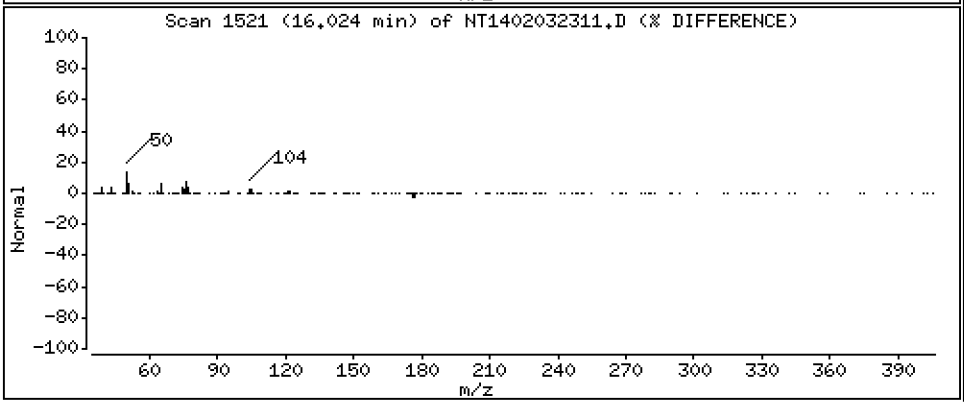
50 Diethylphthalate

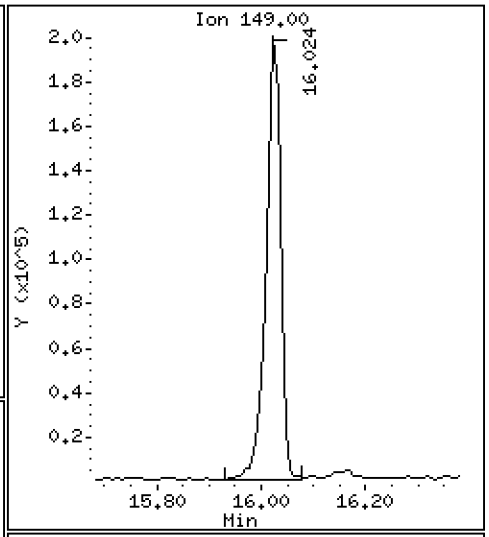
Concentration: 4.449 ug/mL

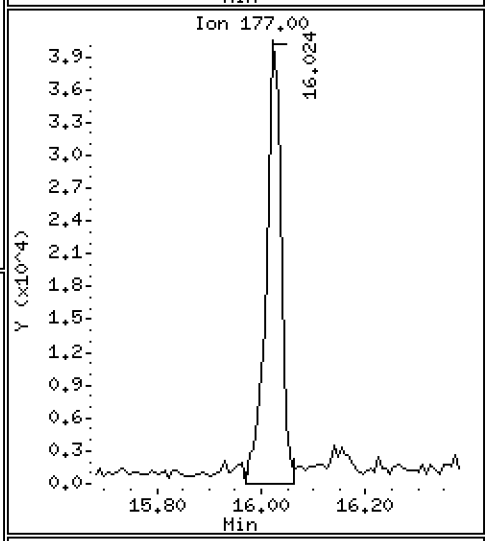


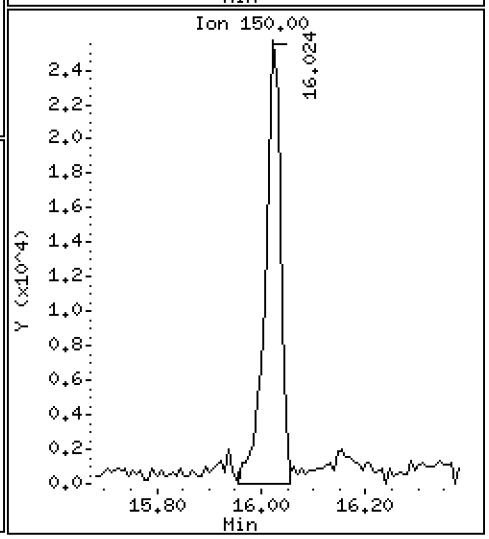












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

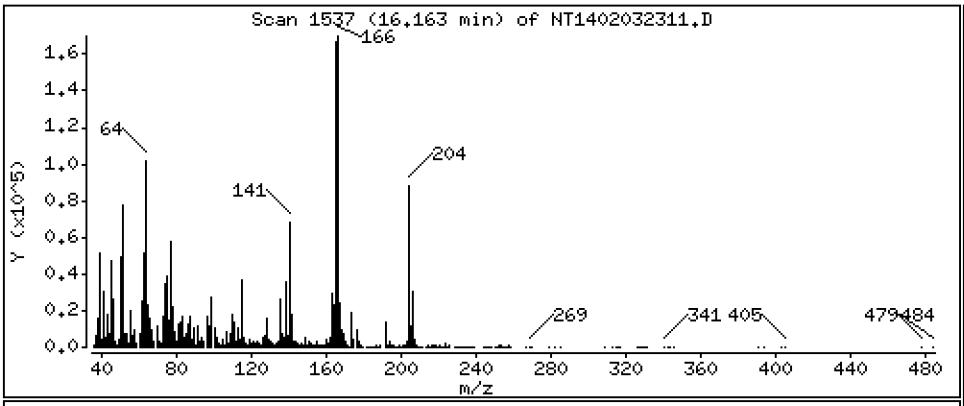
Operator: DSD

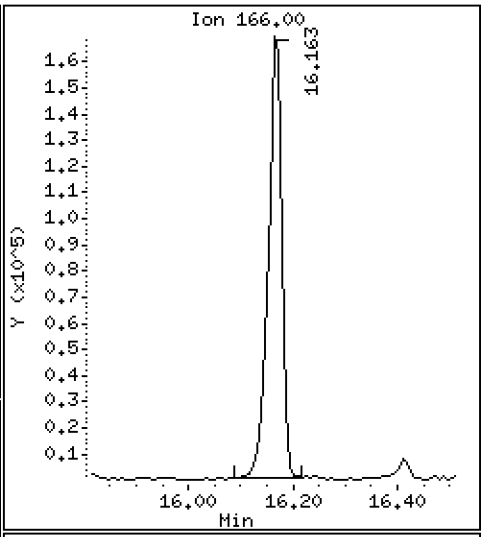
Column phase: ZB-5msi

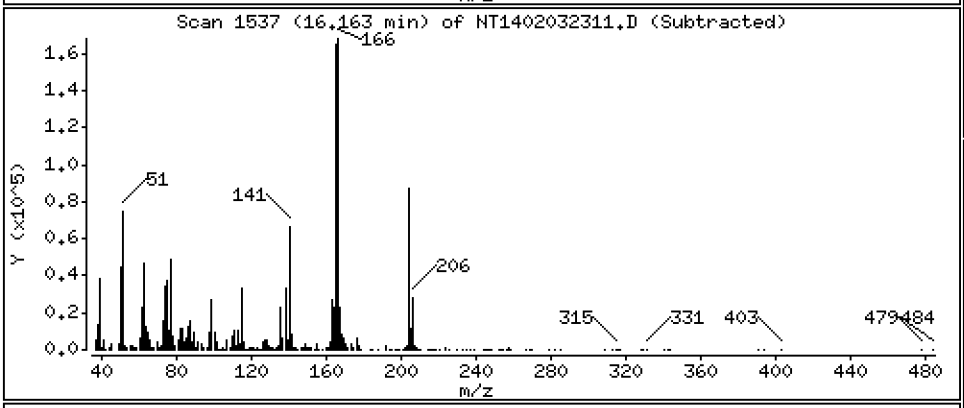
Column diameter: 0.25

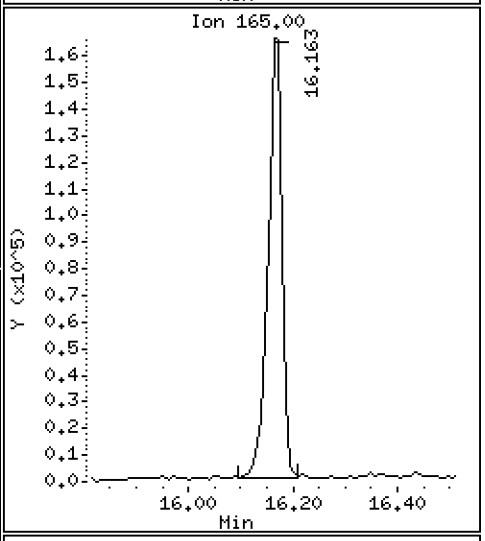
49 Fluorene

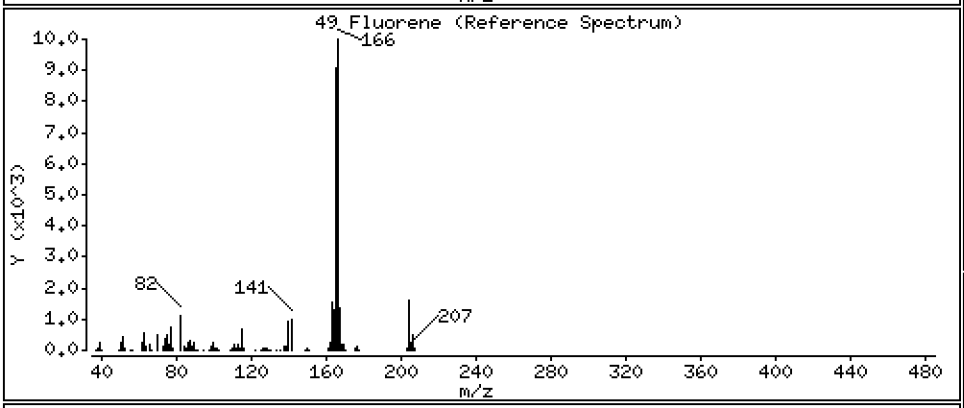
Concentration: 3.958 ug/mL

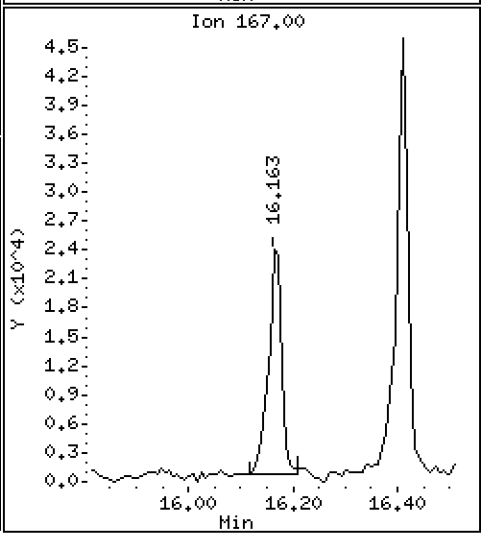


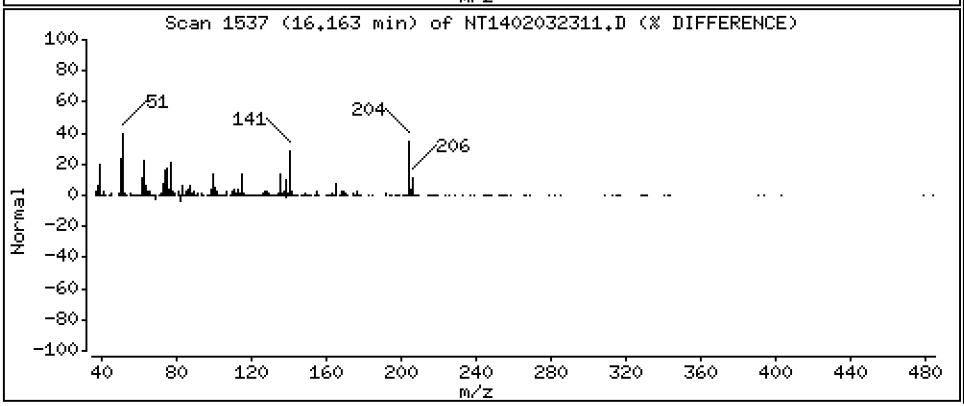












Date : 03-FEB-2023 19:09

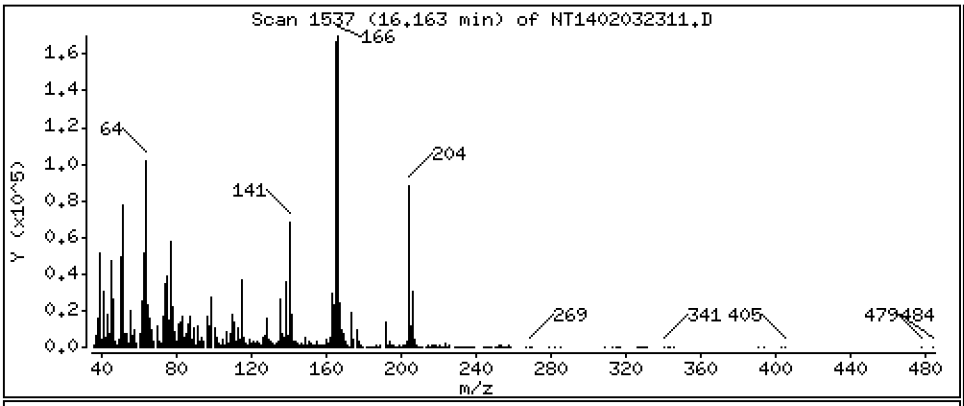
Client ID: Instrument: nt14.i

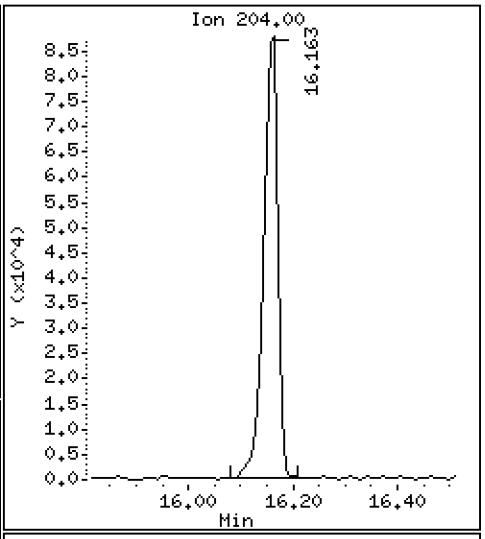
Sample Info: BLA0064-MSD1

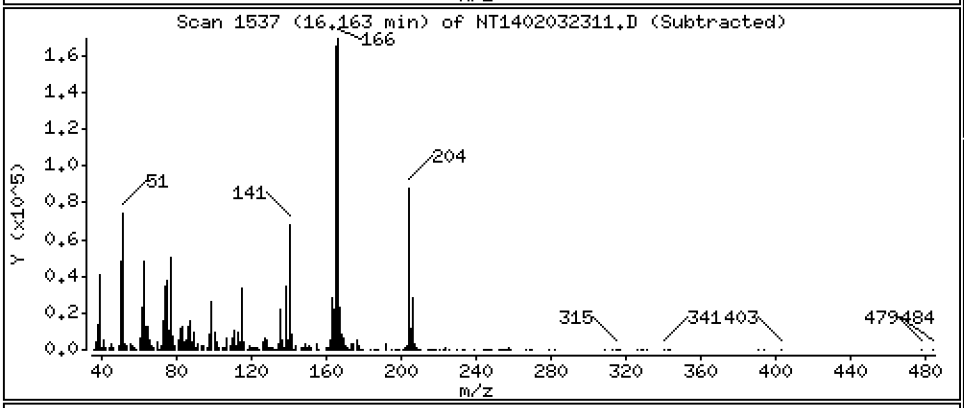
Operator: DSD

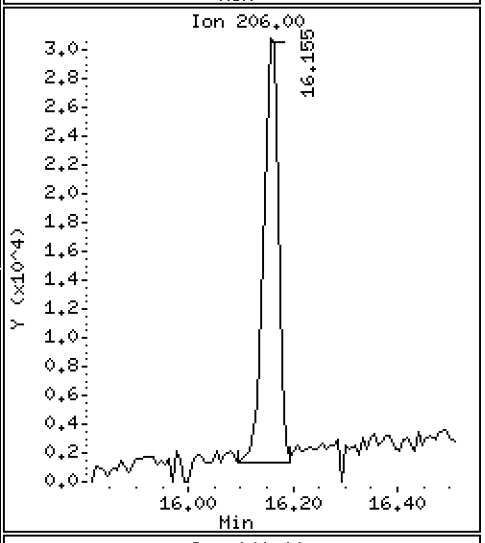
Column phase: ZB-5msi Column diameter: 0.25

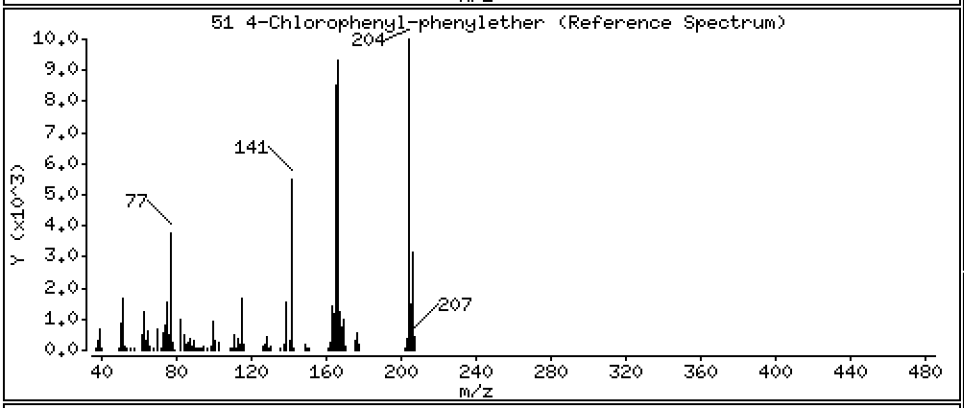
51 4-Chlorophenyl-phenylether Concentration: 3.780 ug/mL

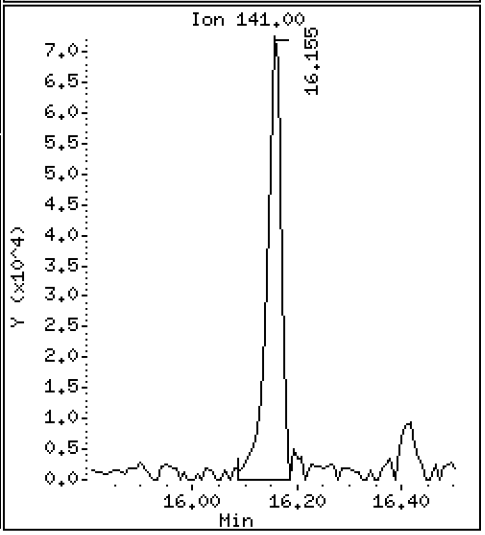


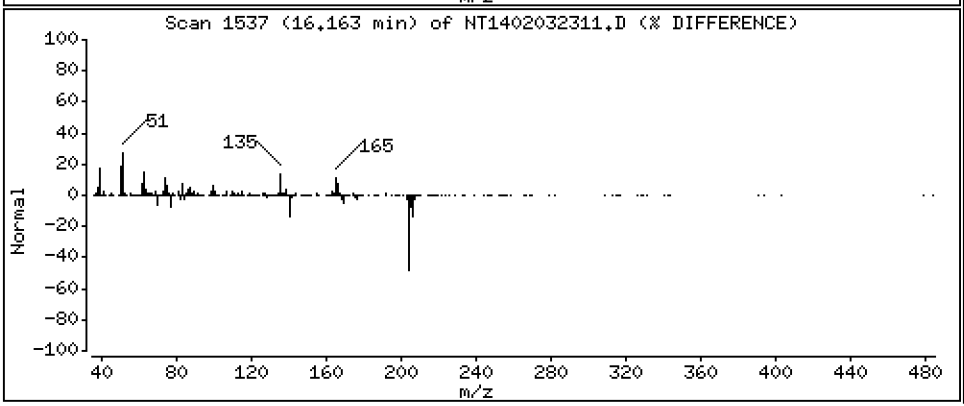












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

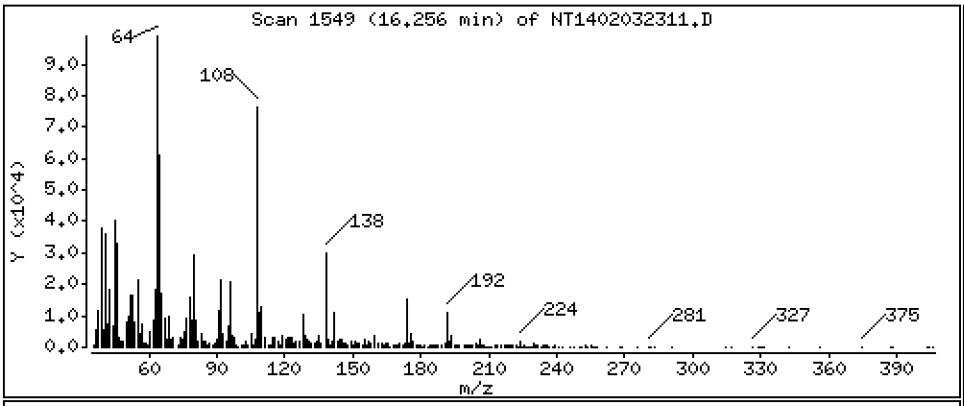
Operator: DSD

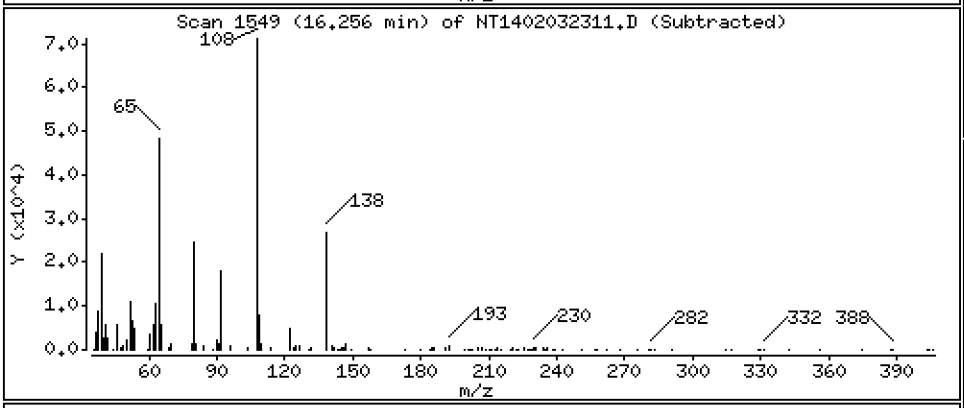
Column phase: ZB-5msi

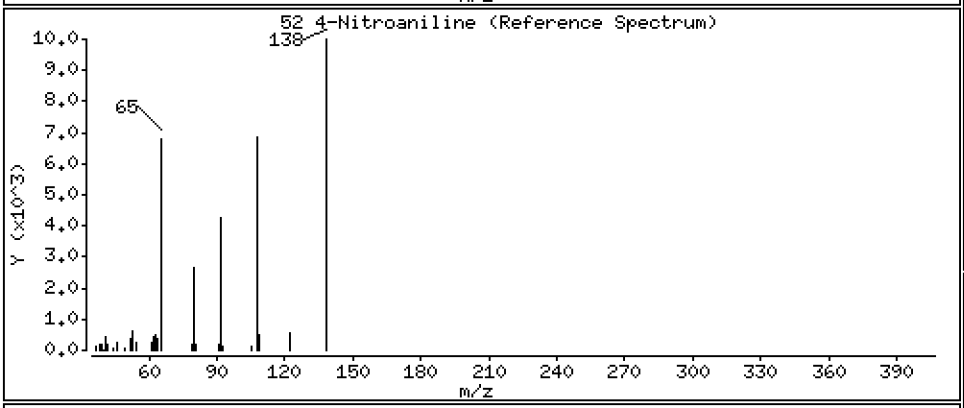
Column diameter: 0.25

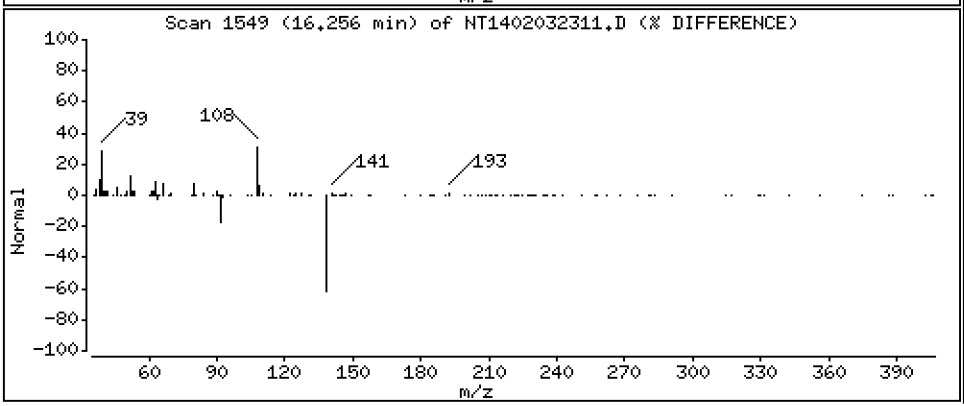
52 4-Nitroaniline

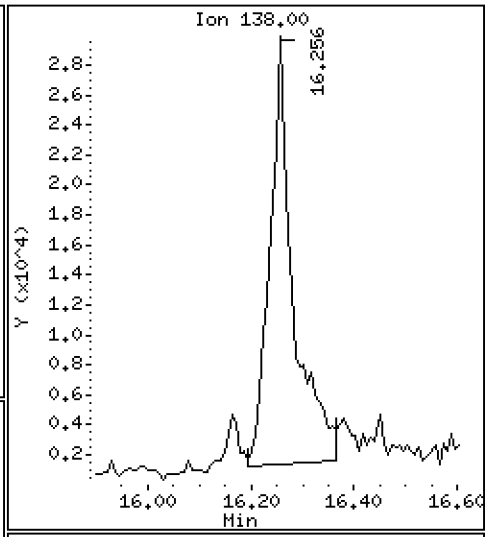
Concentration: 5.939 ug/mL

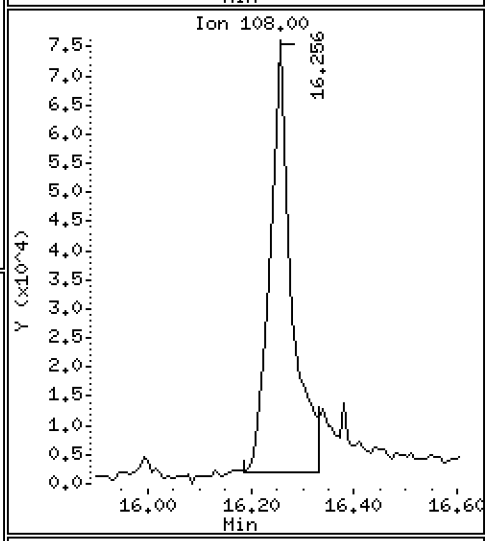


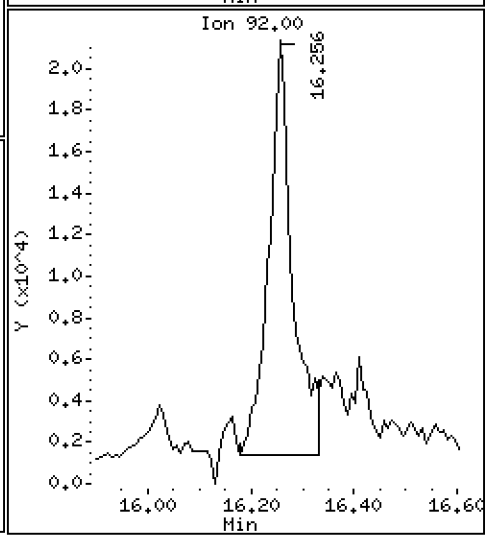












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

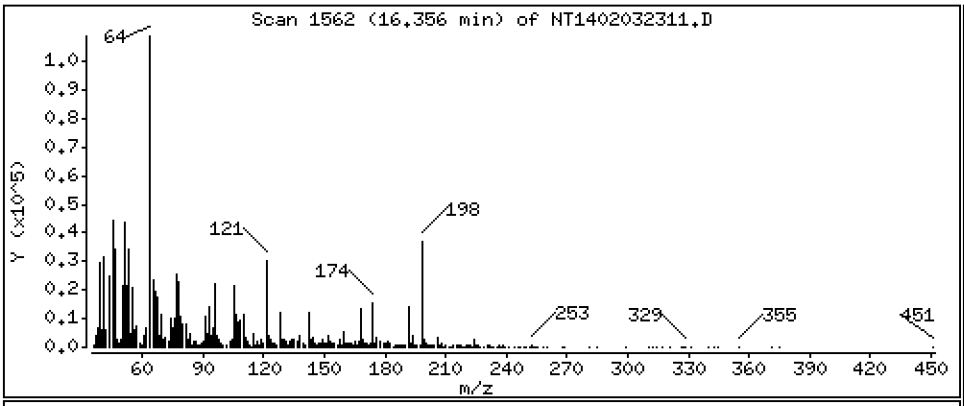
Operator: DSD

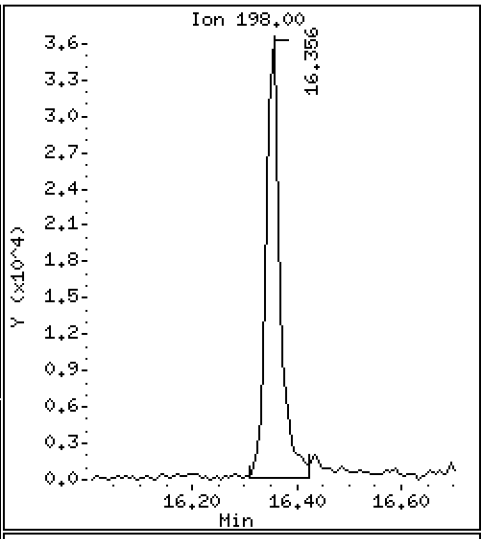
Column phase: ZB-5msi

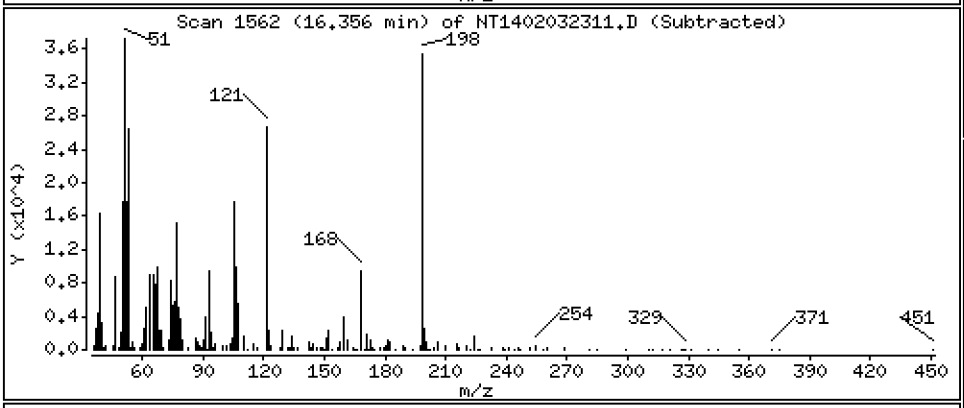
Column diameter: 0.25

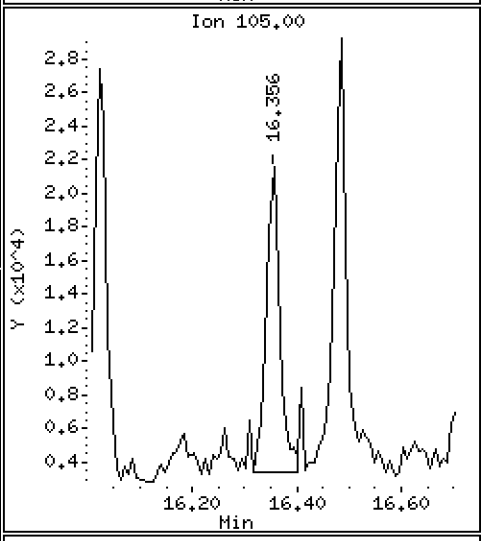
53 4,6-Dinitro-2-methylphenol

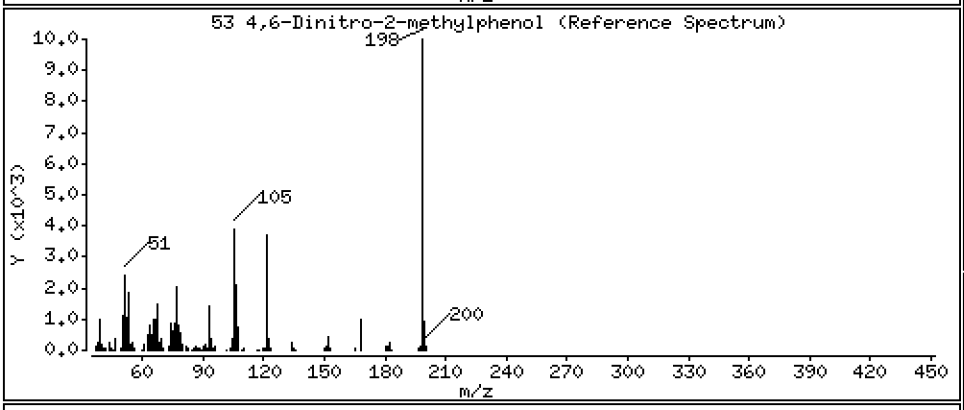
Concentration: 3.649 ug/mL

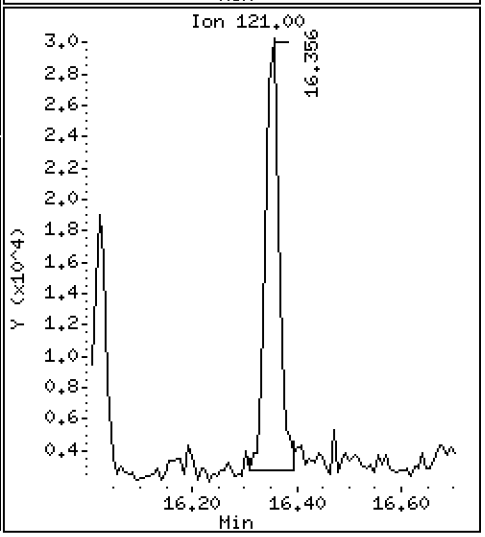


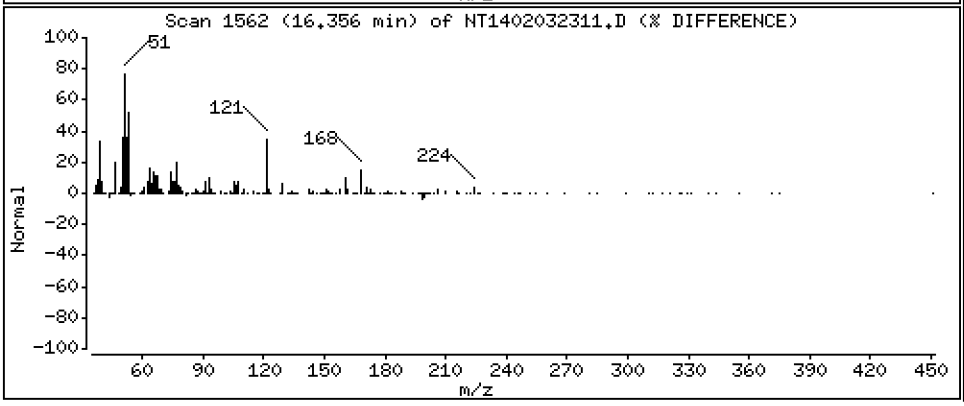












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

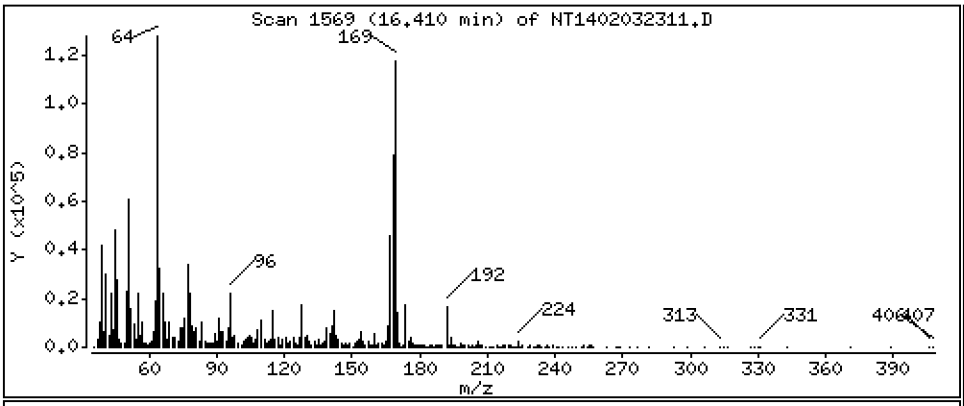
Operator: DSD

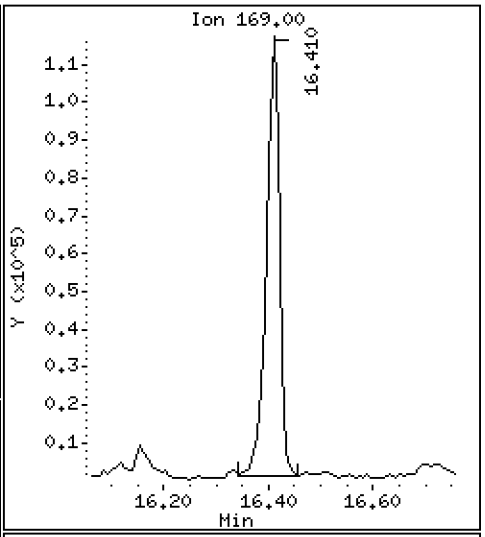
Column phase: ZB-5msi

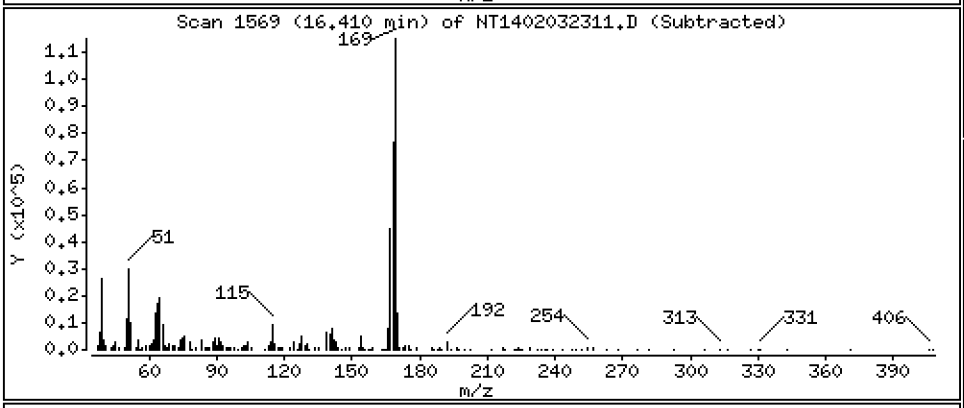
Column diameter: 0.25

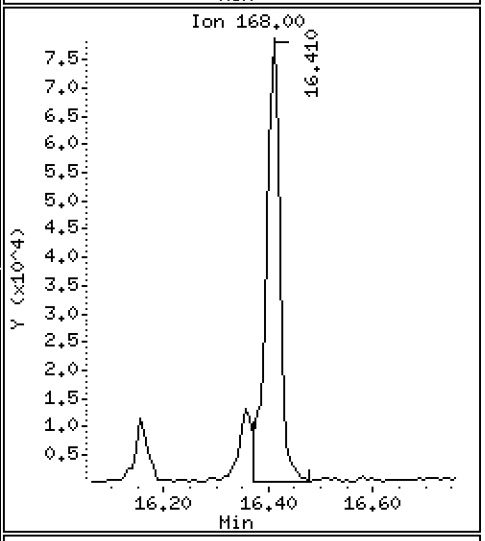
54 N-Nitrosodiphenylamine

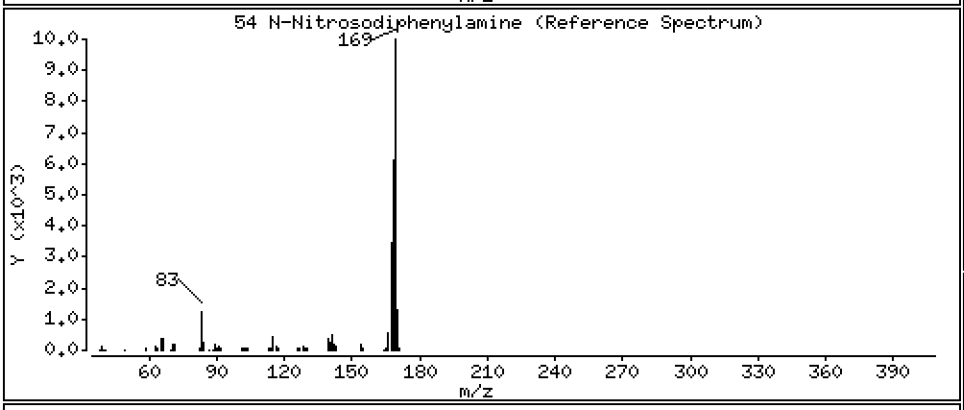
Concentration: 3.774 ug/mL

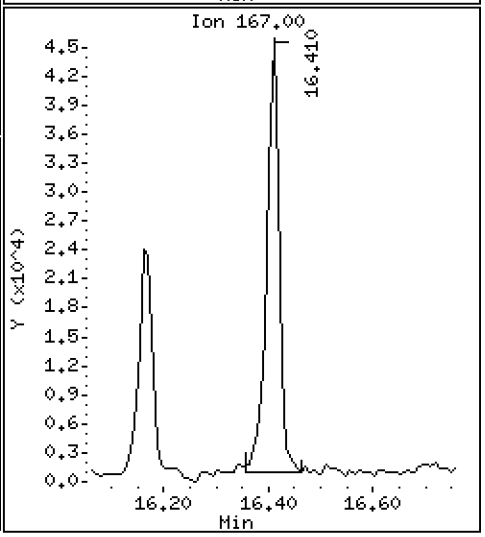


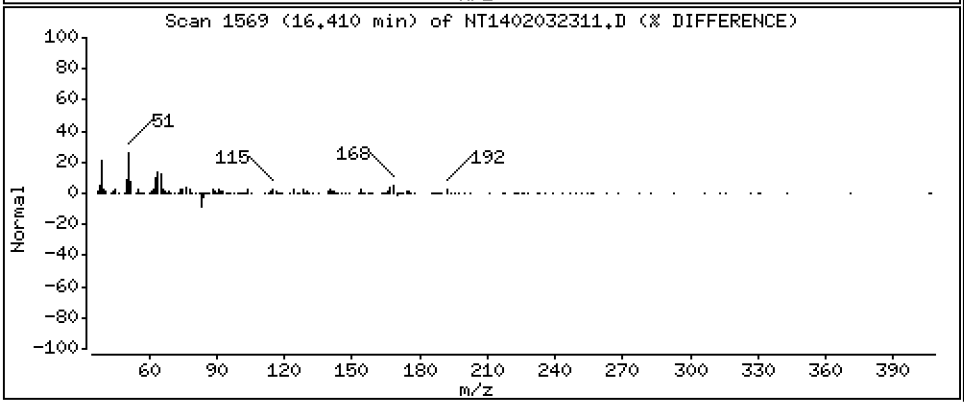












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

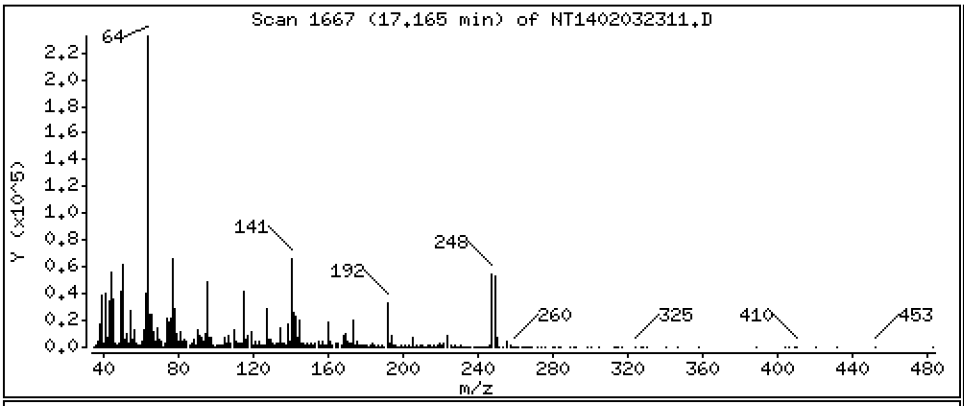
Operator: DSD

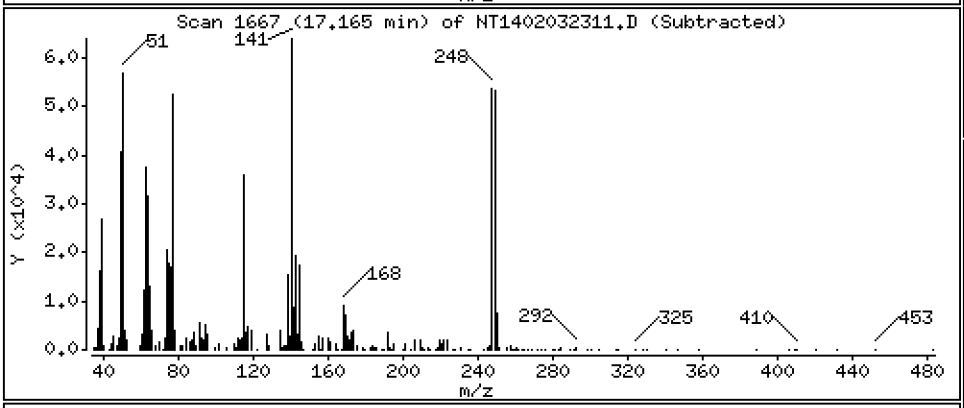
Column phase: ZB-5msi

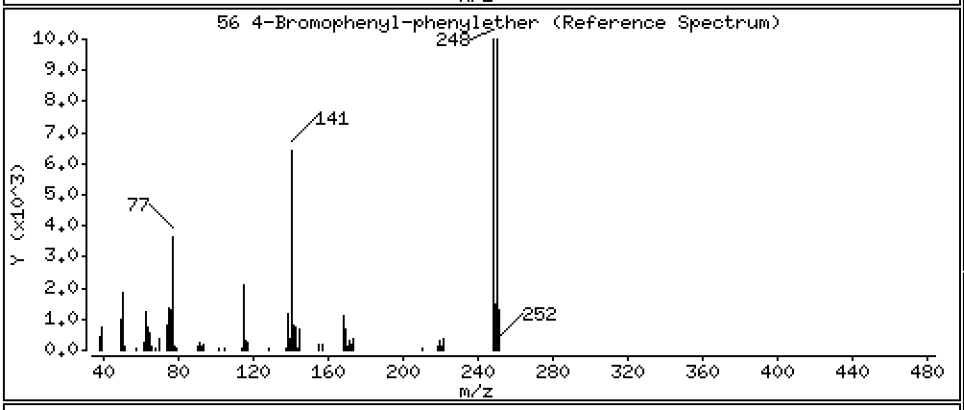
Column diameter: 0.25

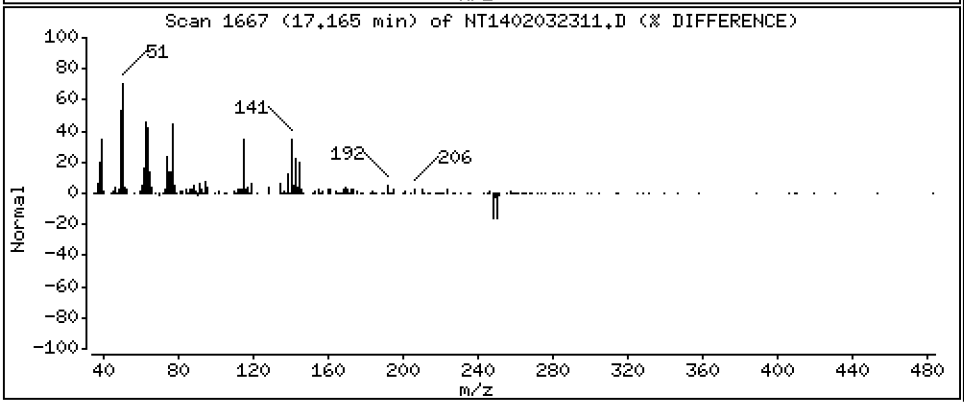
56 4-Bromophenyl-phenylether

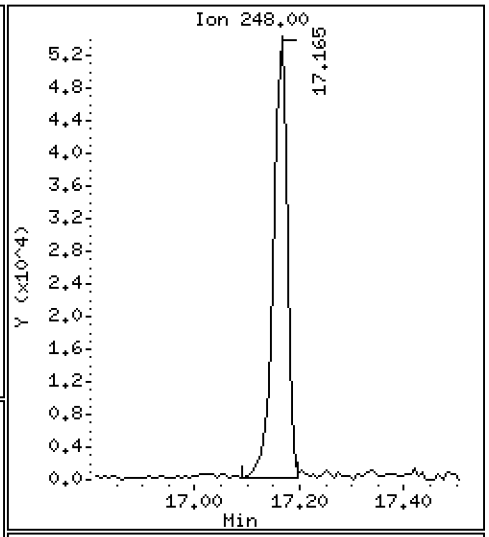
Concentration: 3.977 ug/mL

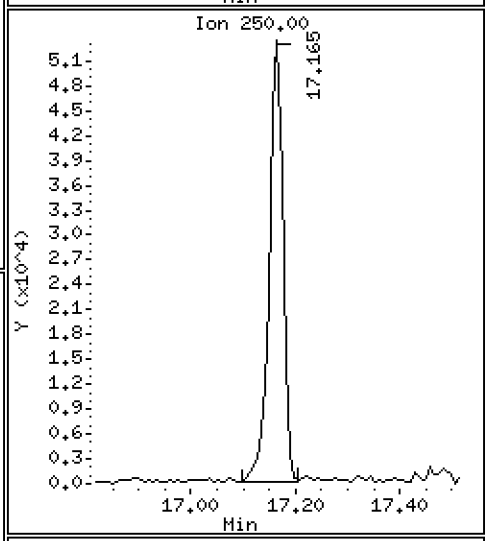


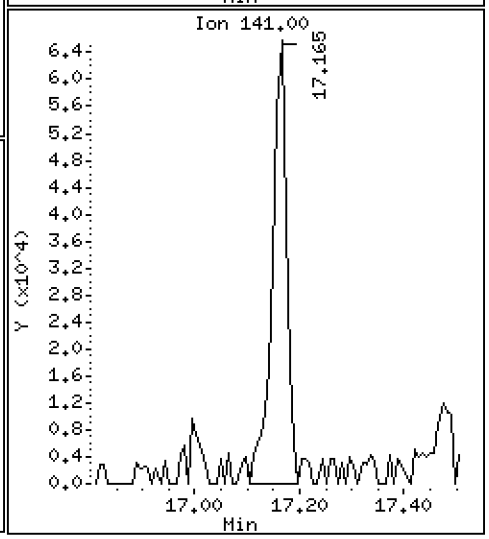












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

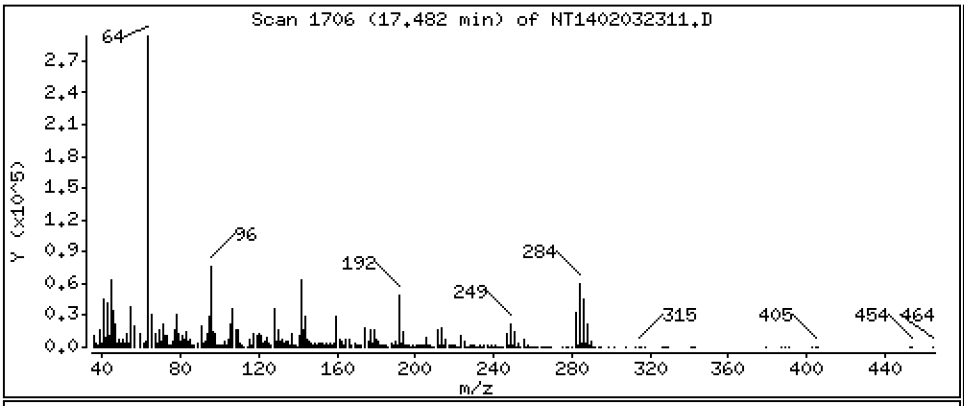
Operator: DSD

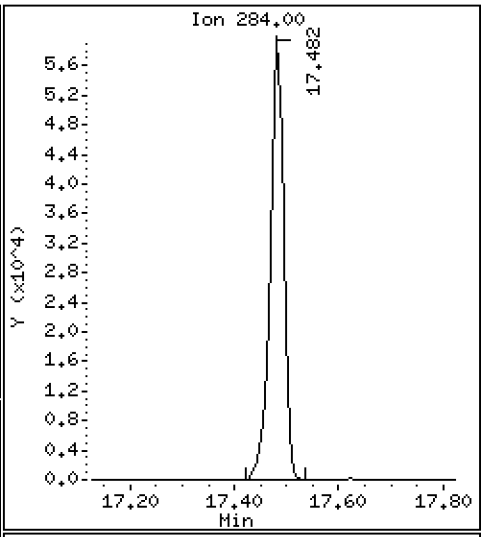
Column phase: ZB-5msi

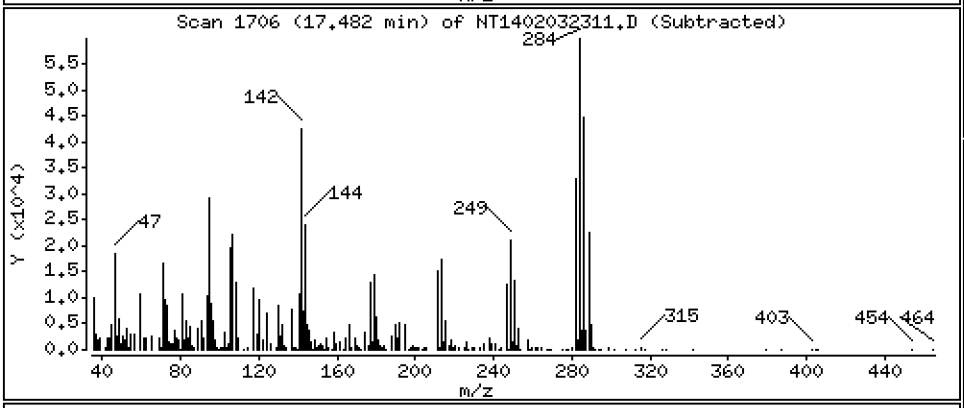
Column diameter: 0.25

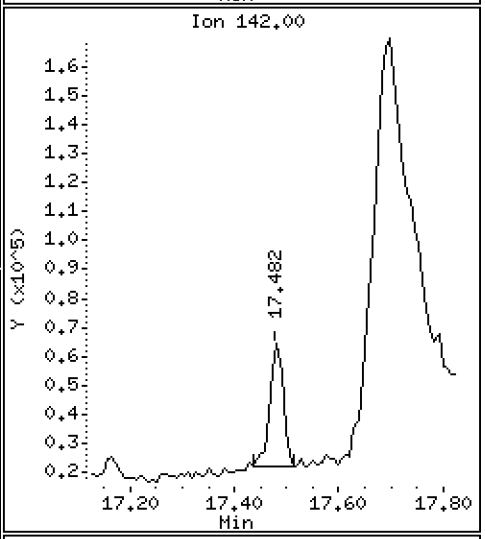
57 Hexachlorobenzene

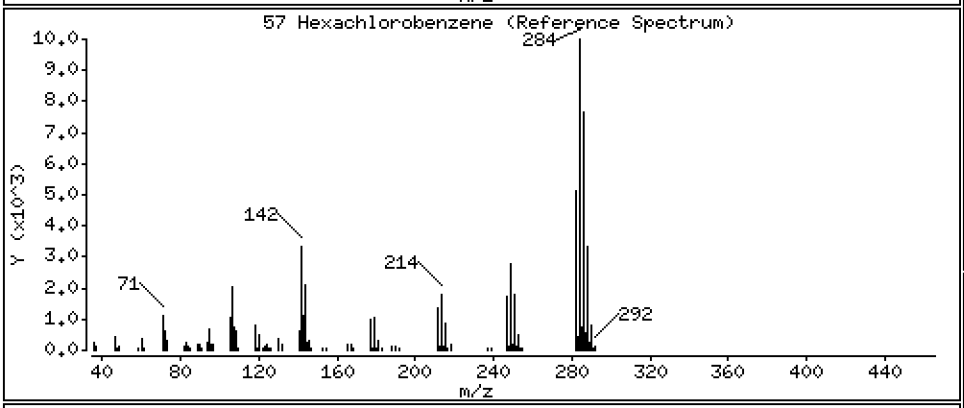
Concentration: 3.754 ug/mL

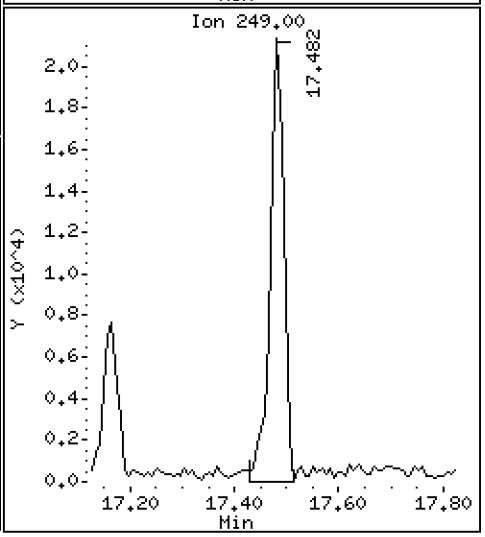


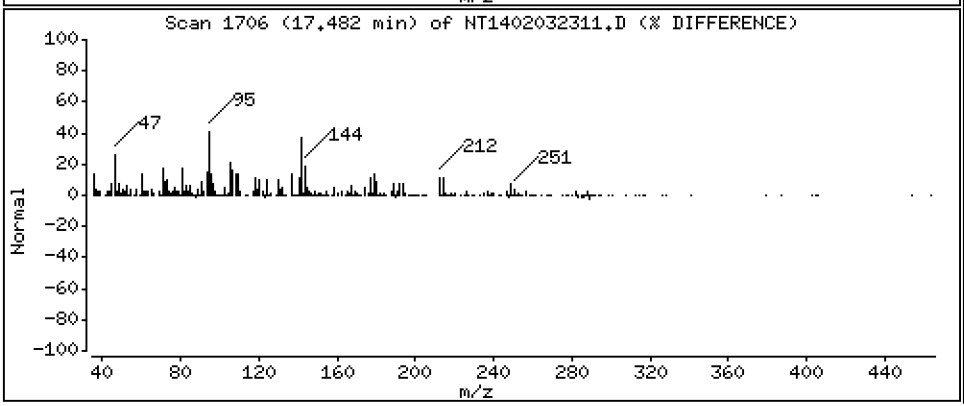












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

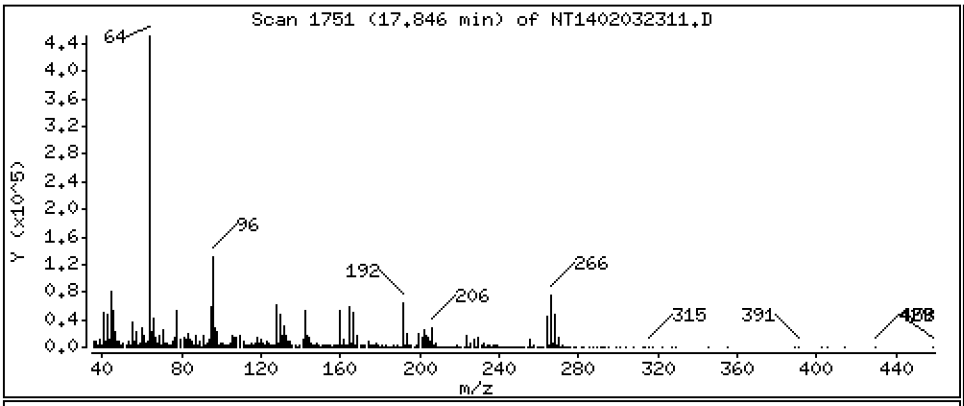
Operator: DSD

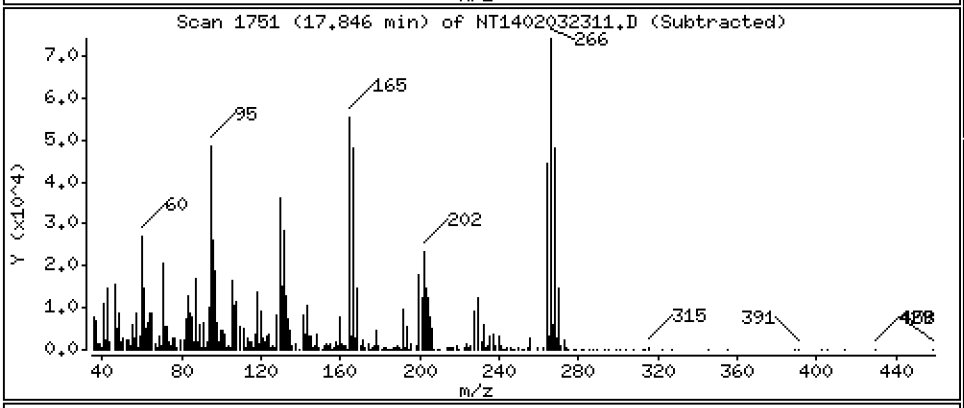
Column phase: ZB-5msi

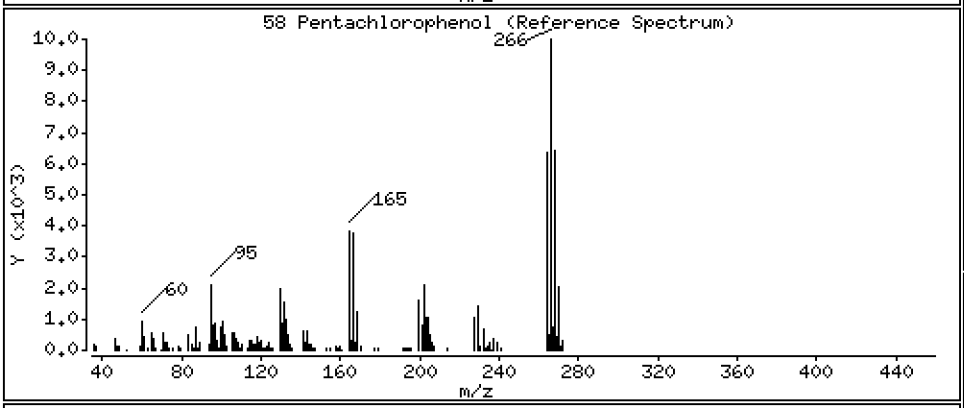
Column diameter: 0.25

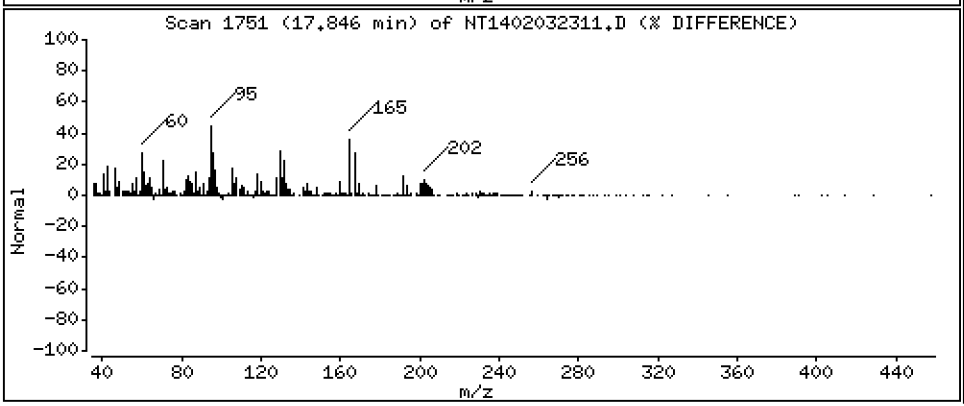
58 Pentachlorophenol

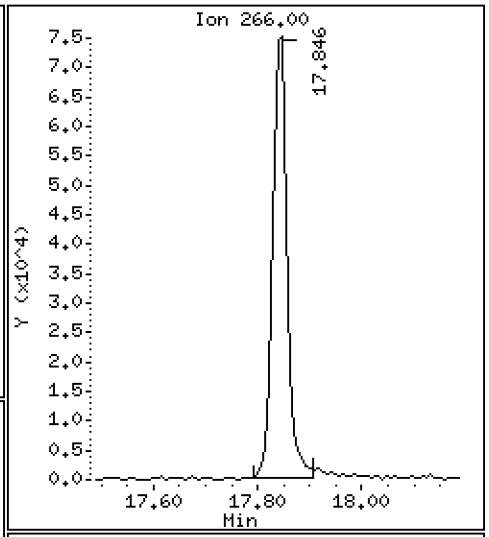
Concentration: 9.065 ug/mL

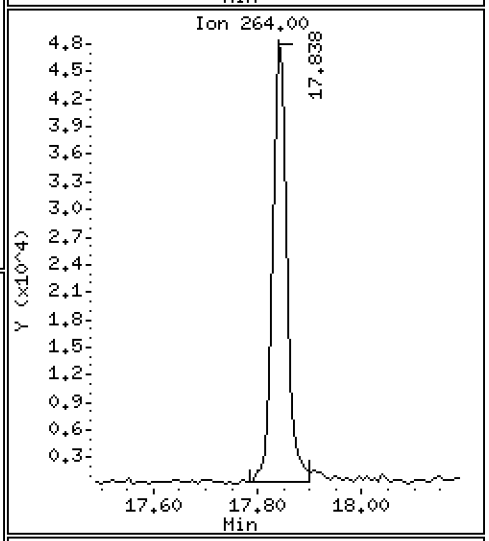


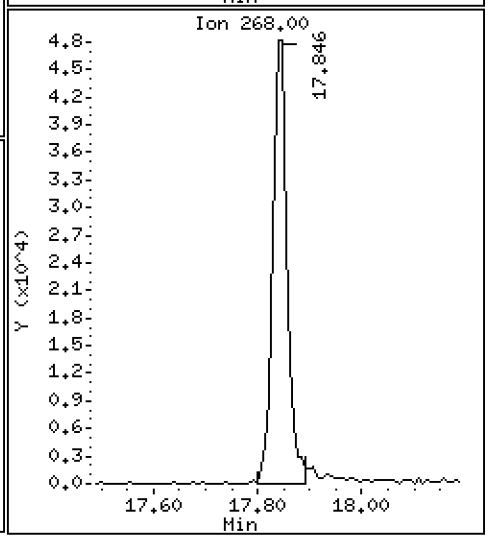












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

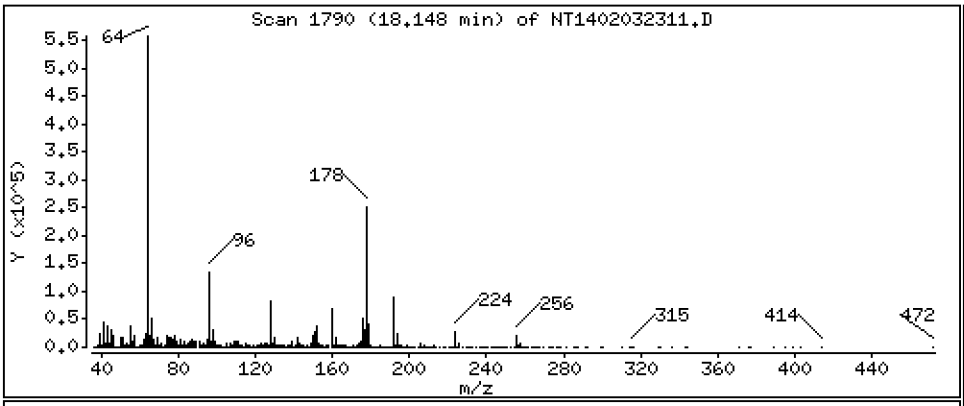
Operator: DSD

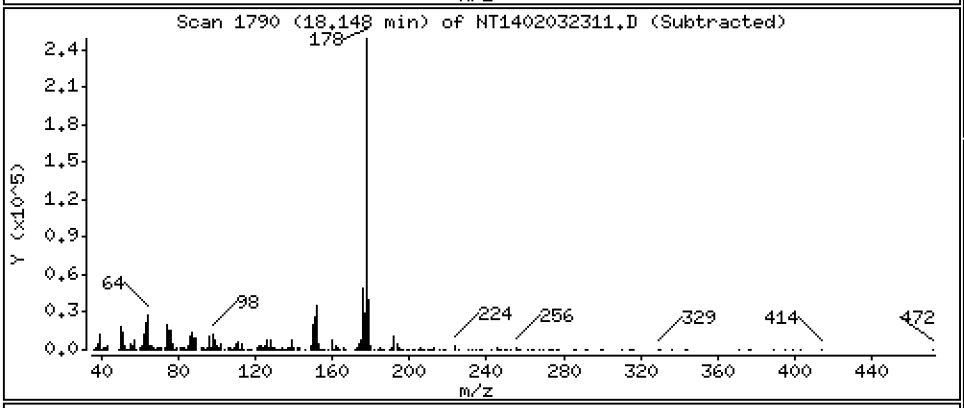
Column phase: ZB-5msi

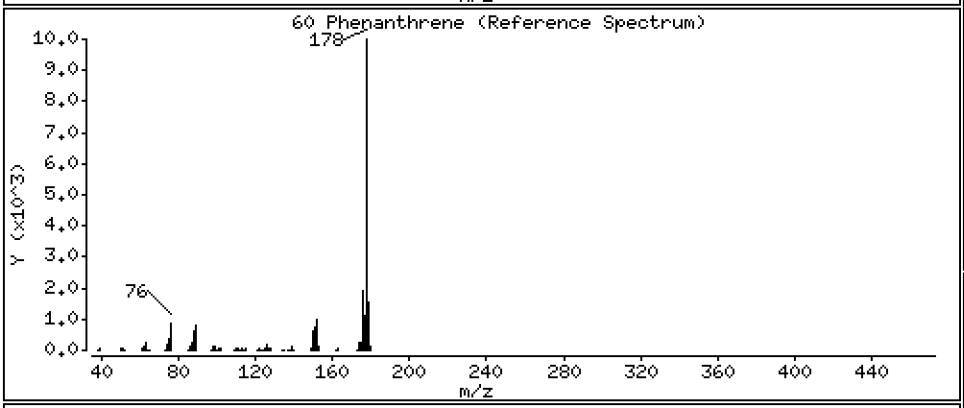
Column diameter: 0.25

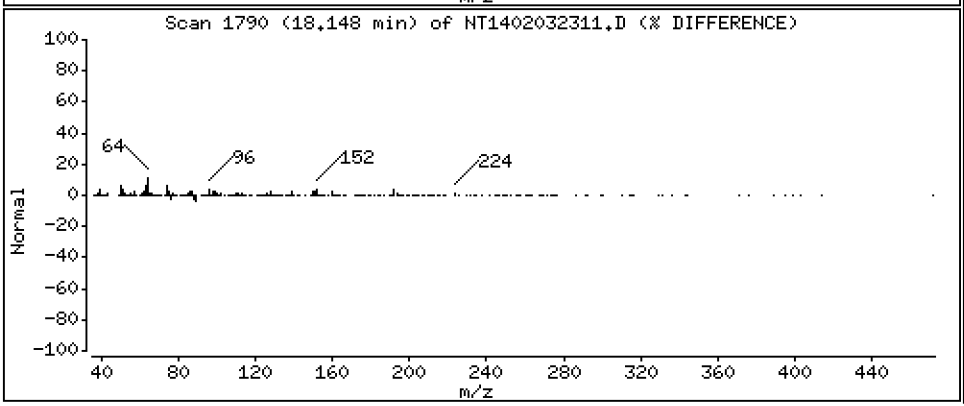
60 Phenanthrene

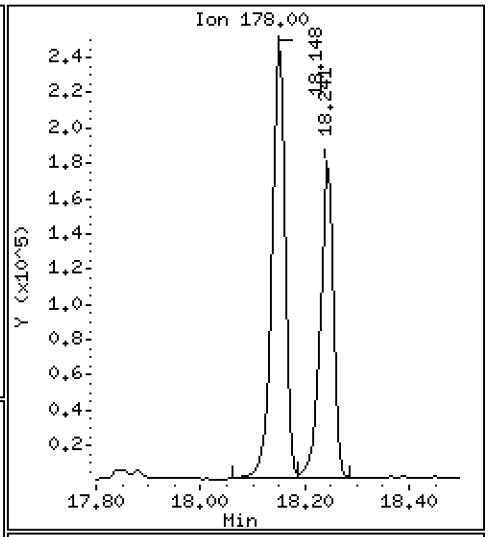
Concentration: 5.105 ug/mL

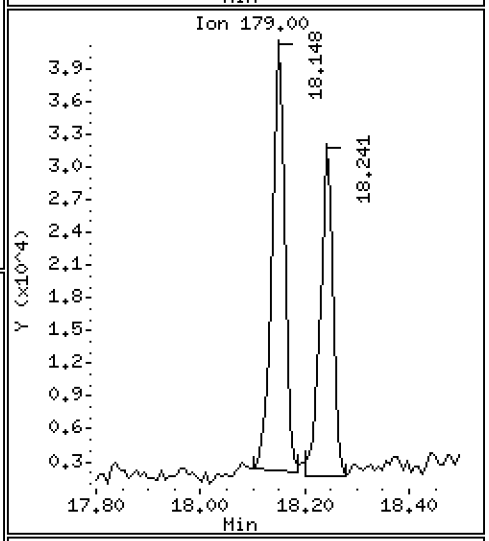


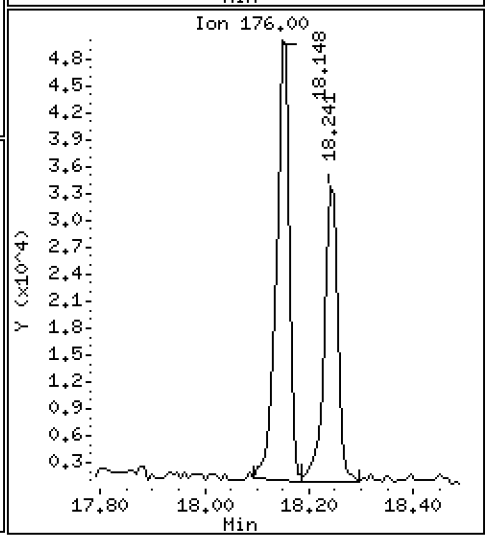












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

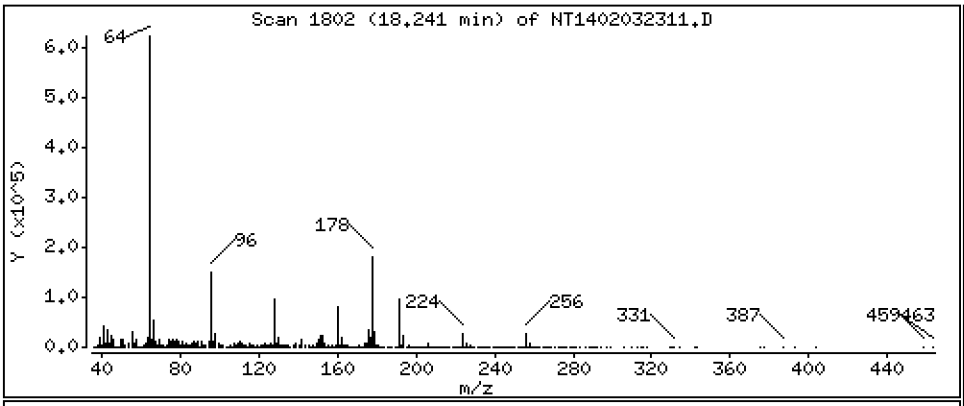
Operator: DSD

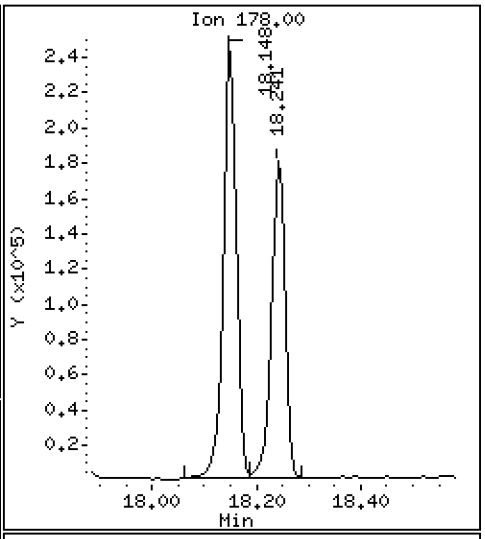
Column phase: ZB-5msi

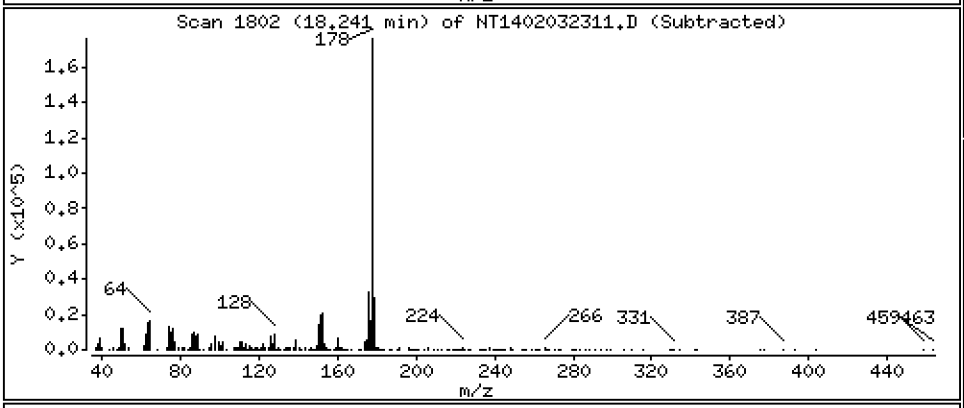
Column diameter: 0.25

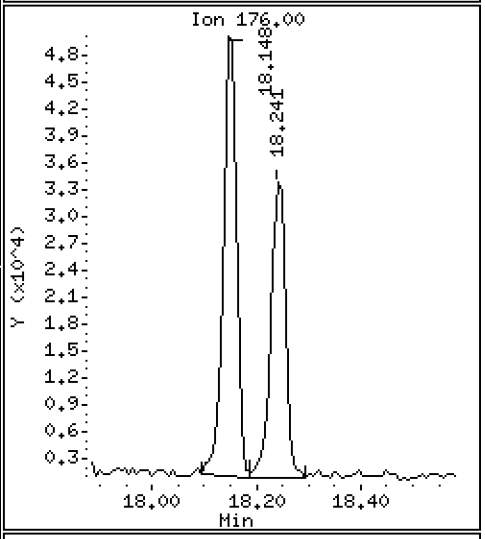
61 Anthracene

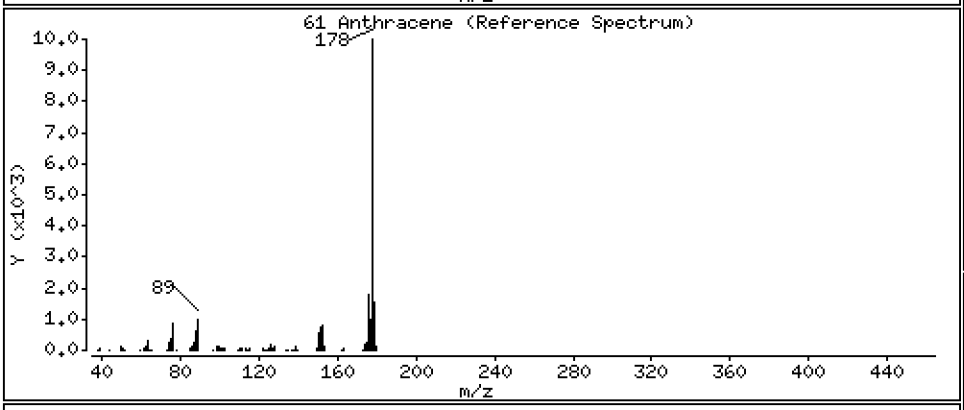
Concentration: 4.024 ug/mL

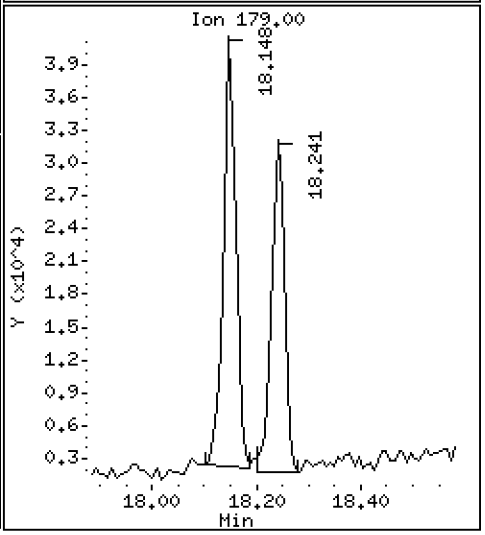


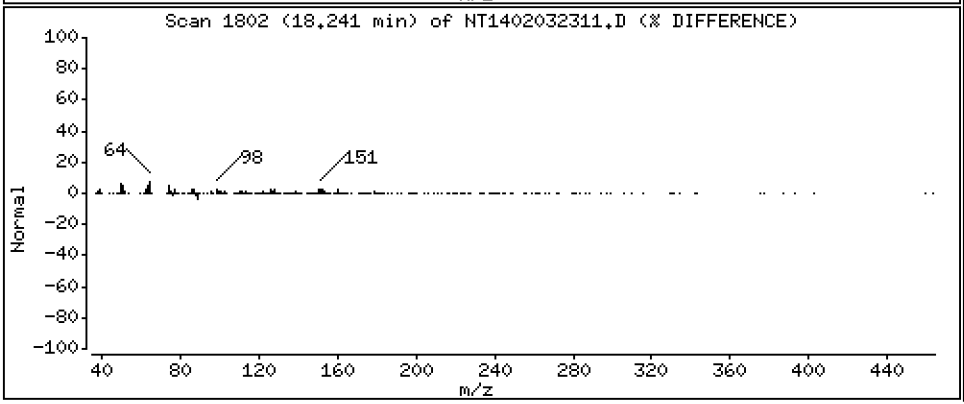












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

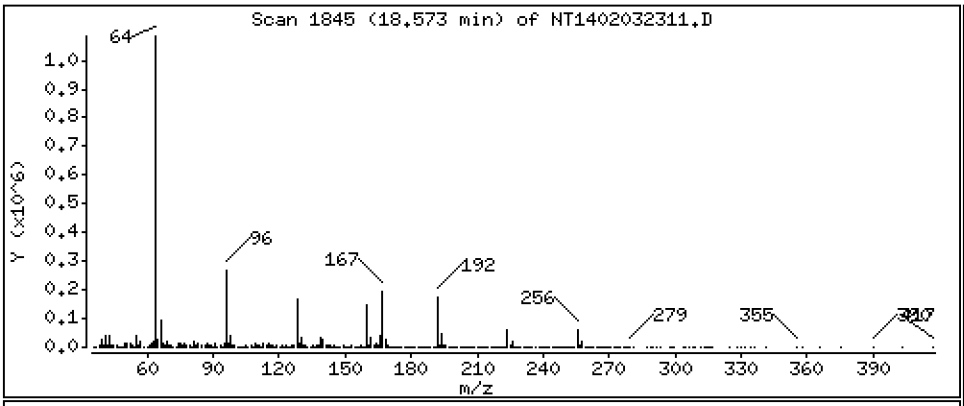
Operator: DSD

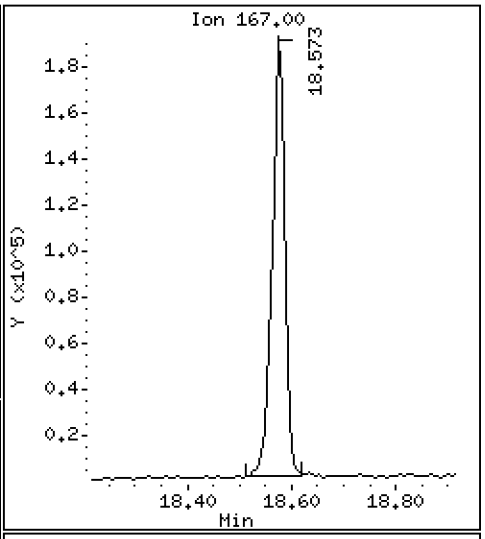
Column phase: ZB-5msi

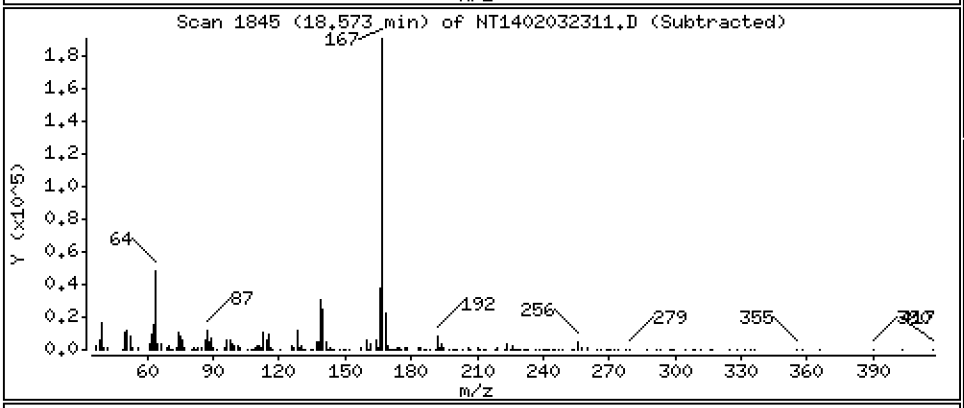
Column diameter: 0.25

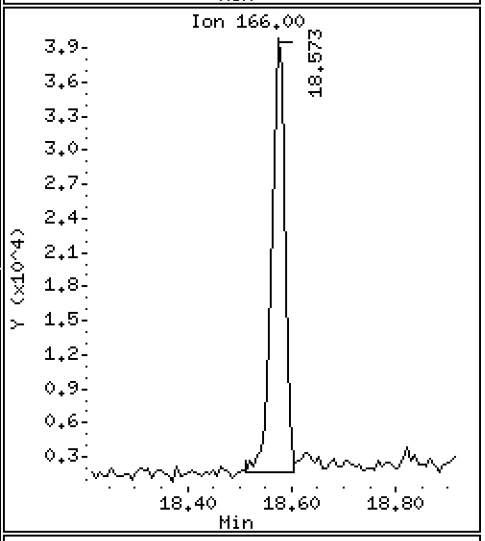
62 Carbazole

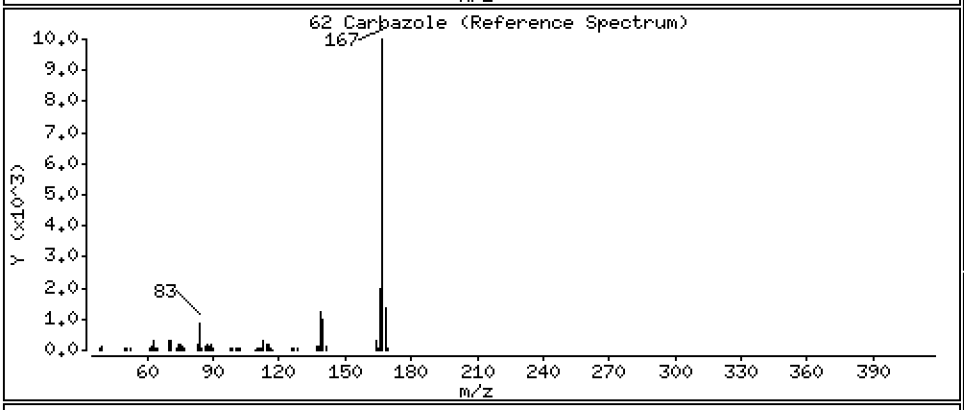
Concentration: 4.487 ug/mL

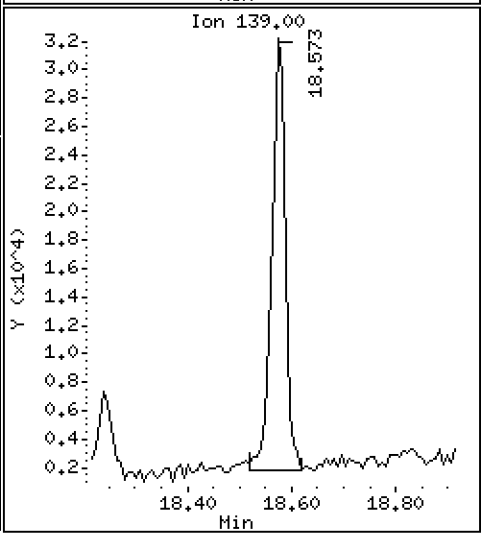


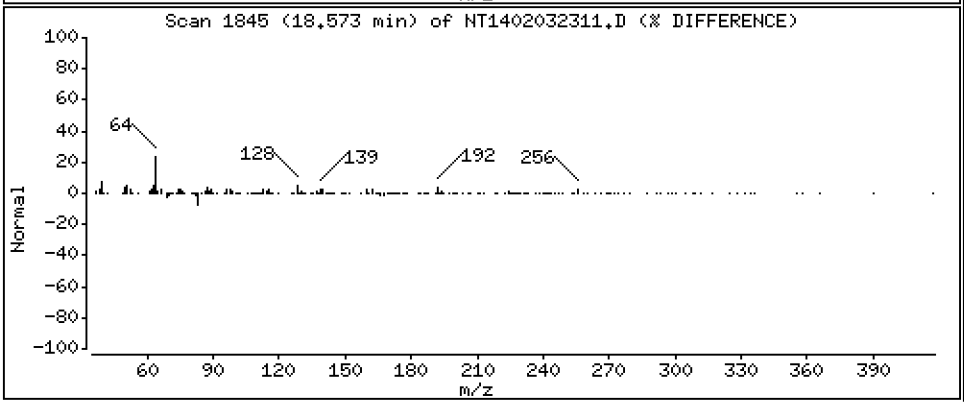












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

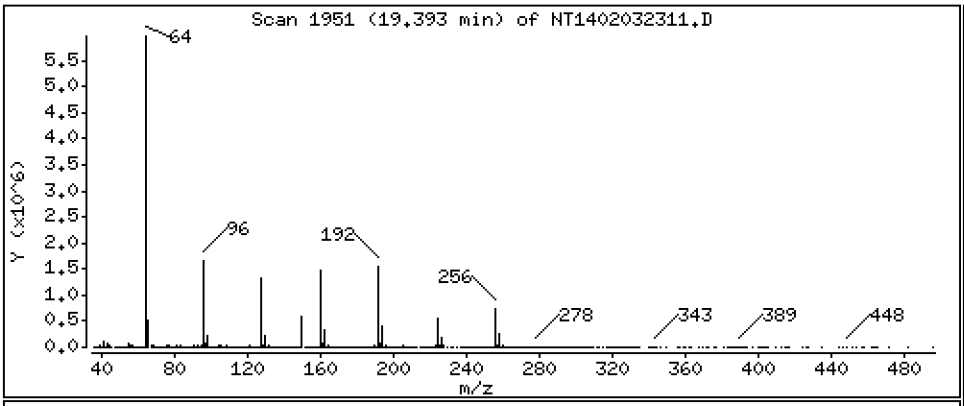
Operator: DSD

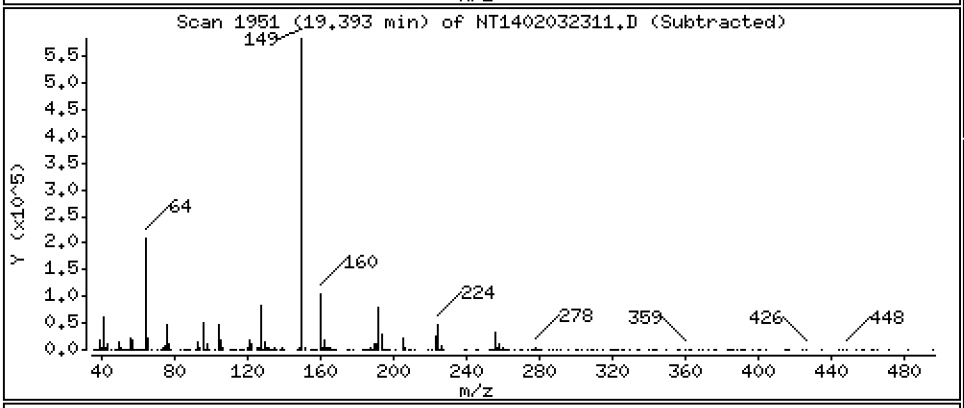
Column phase: ZB-5msi

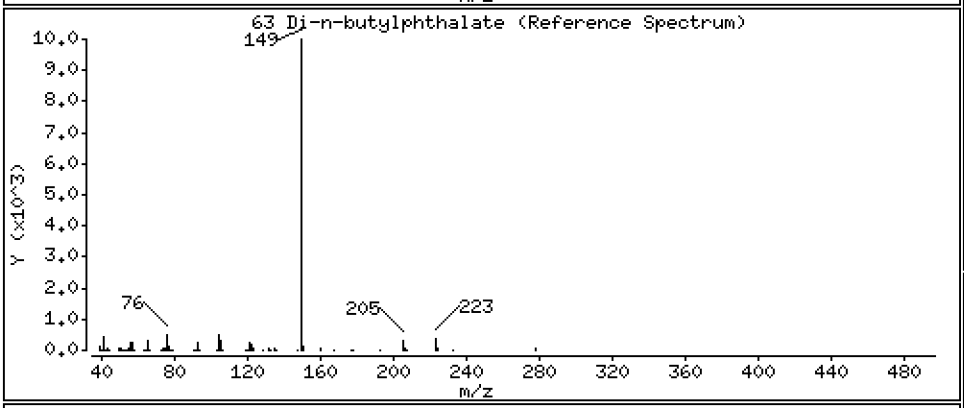
Column diameter: 0.25

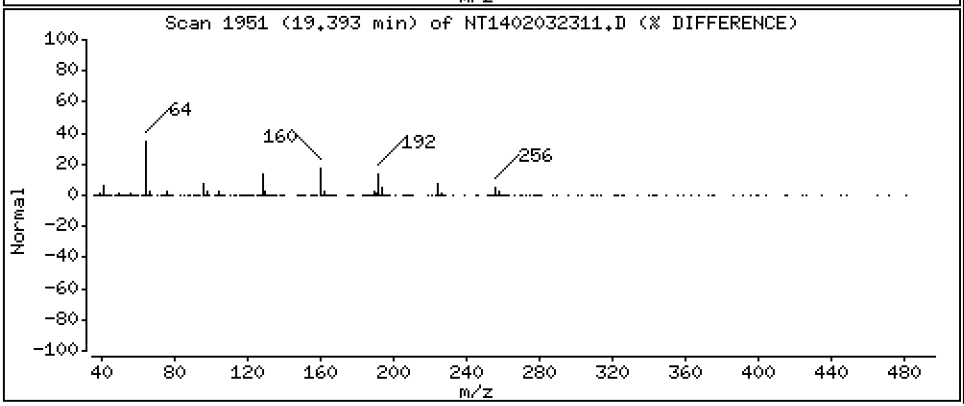
63 Di-n-butylphthalate

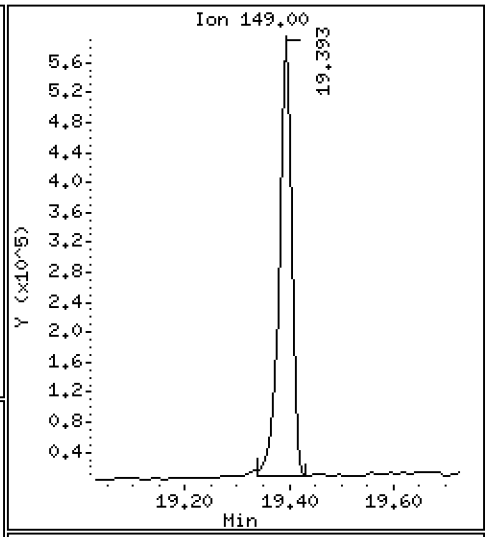
Concentration: 8.968 ug/mL

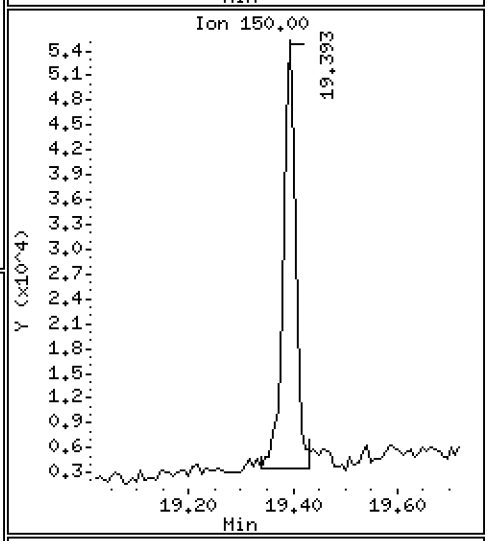


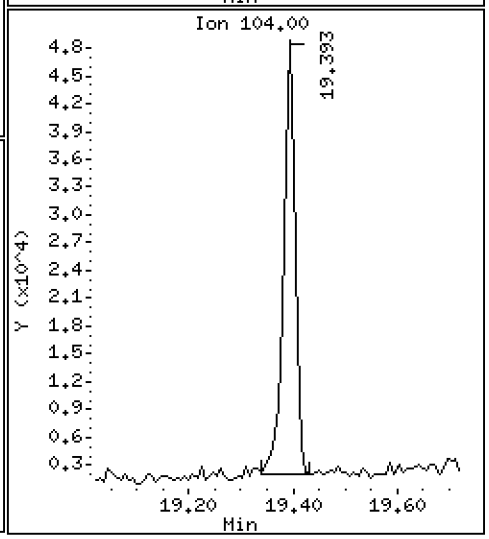












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

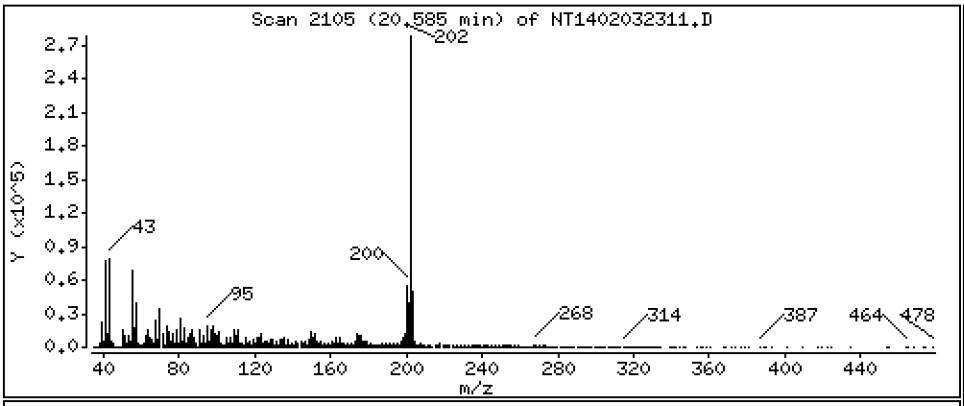
Operator: DSD

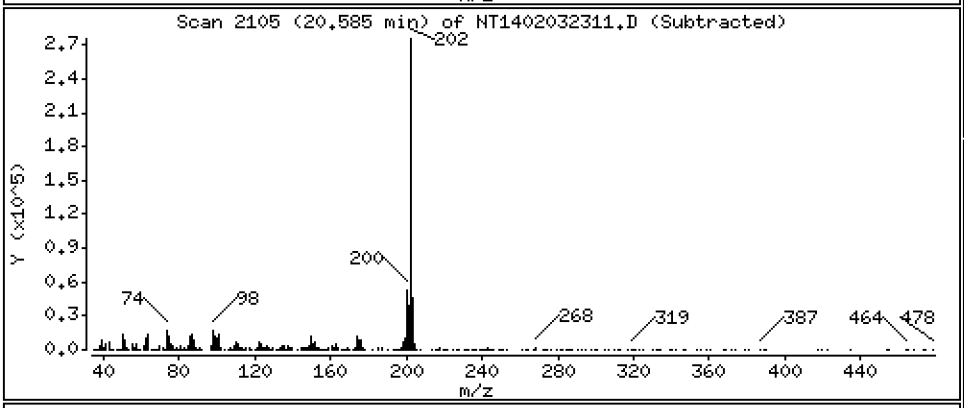
Column phase: ZB-5msi

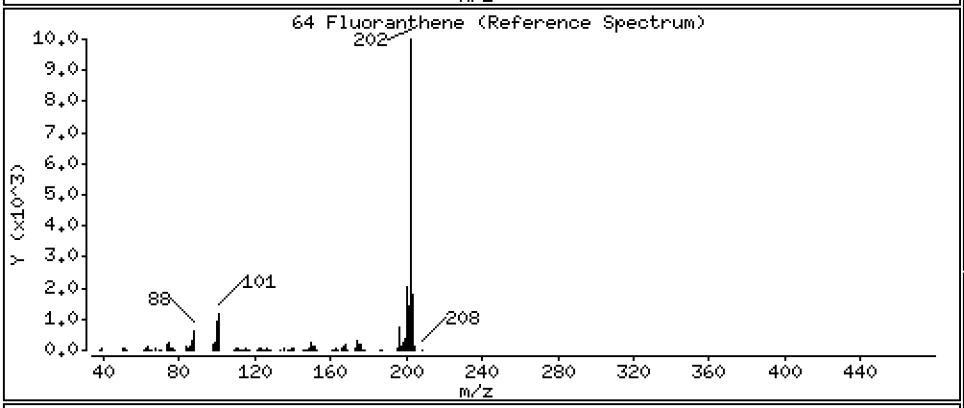
Column diameter: 0.25

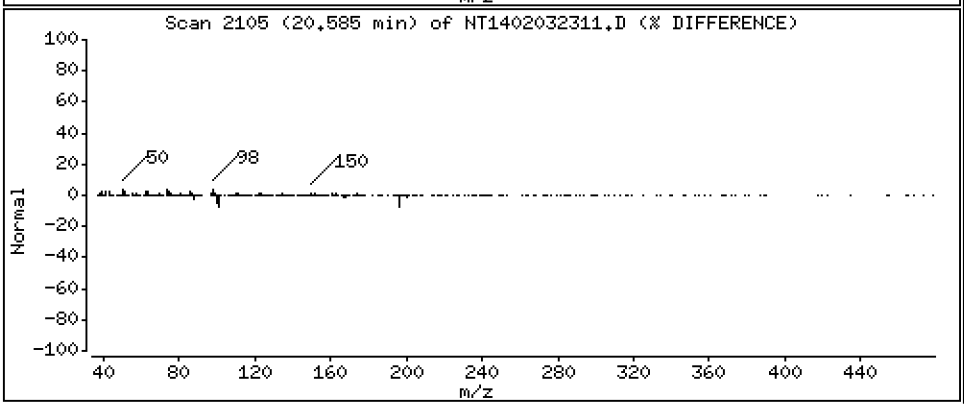
64 Fluoranthene

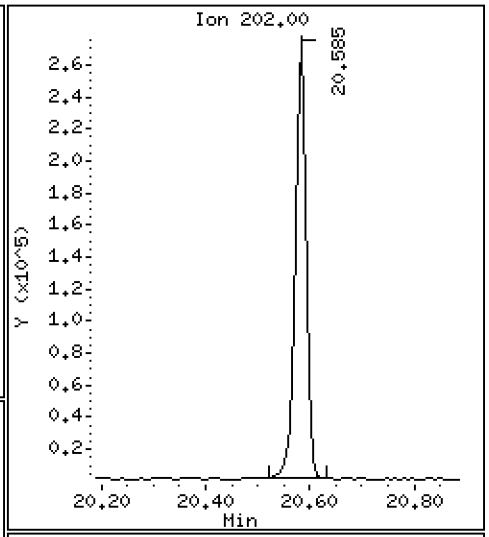
Concentration: 8.065 ug/mL

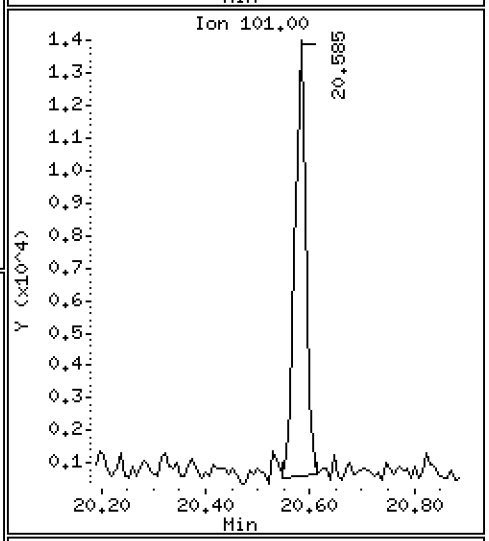


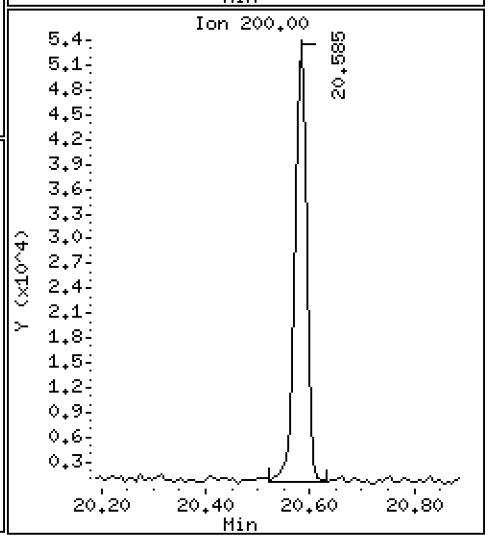












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

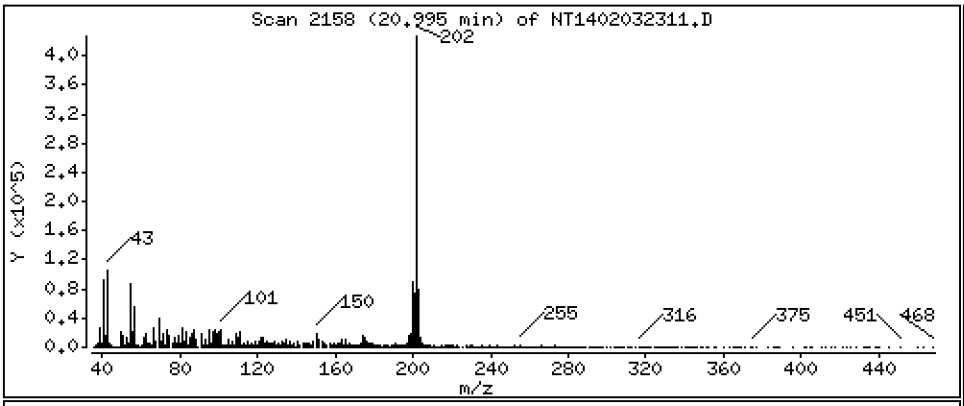
Operator: DSD

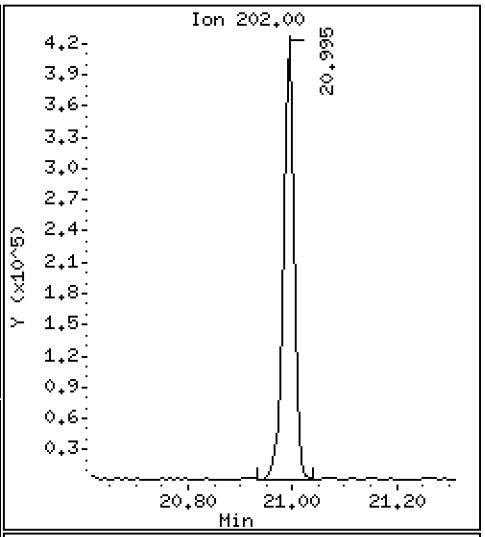
Column phase: ZB-5msi

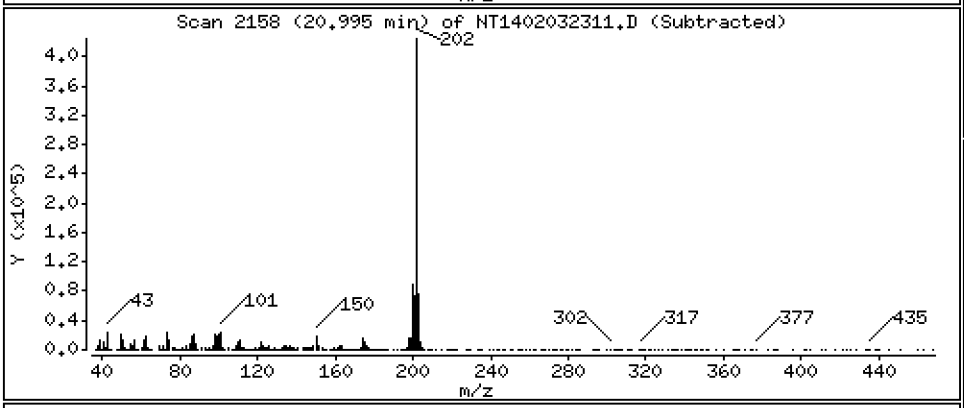
Column diameter: 0.25

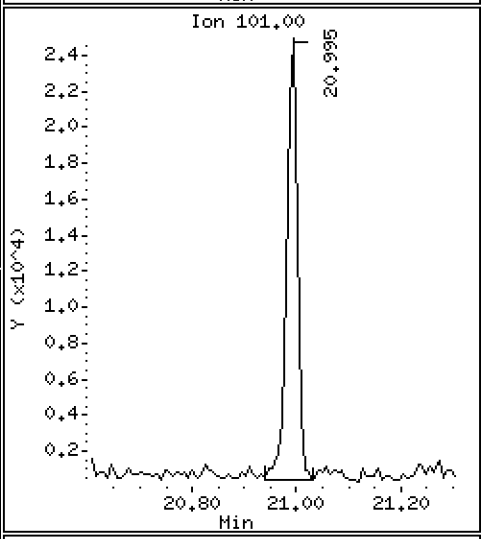
65 Pyrene

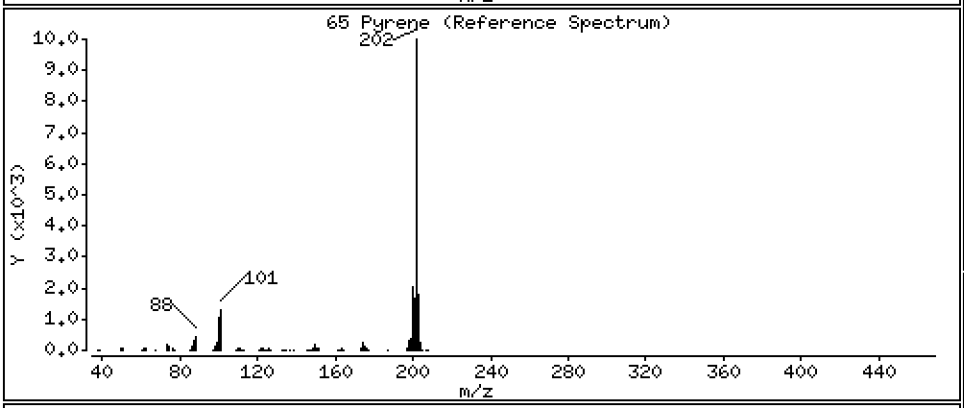
Concentration: 11.49 ug/mL

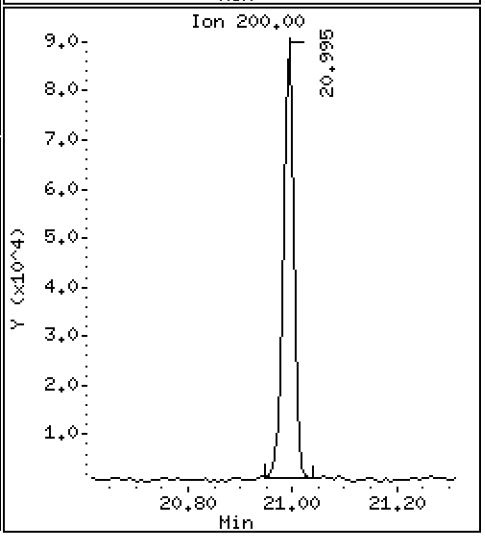


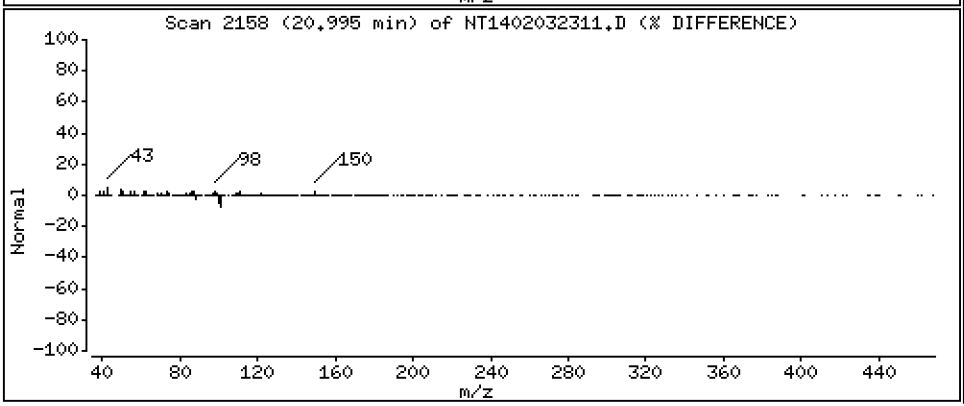












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

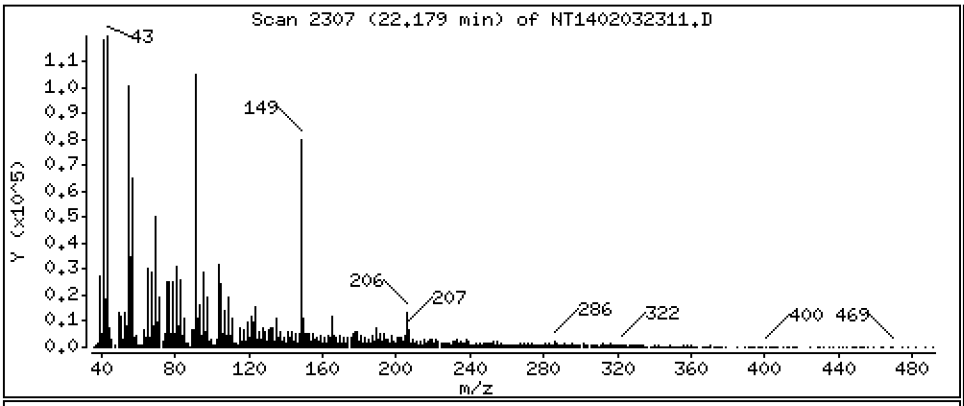
Operator: DSD

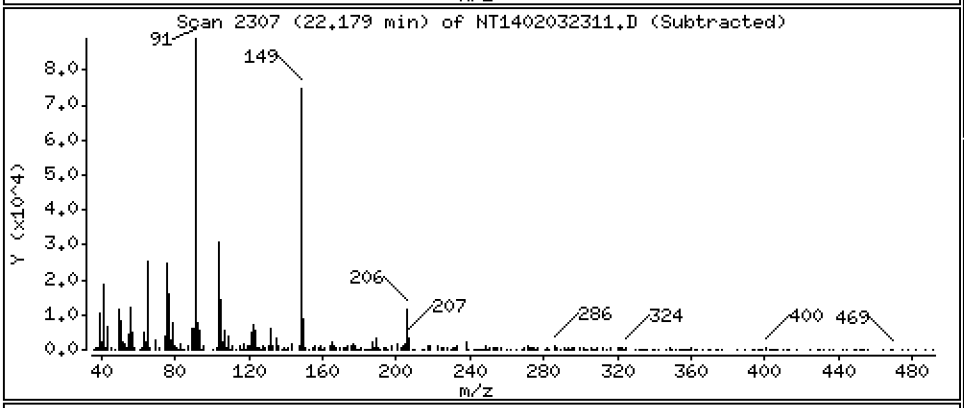
Column phase: ZB-5msi

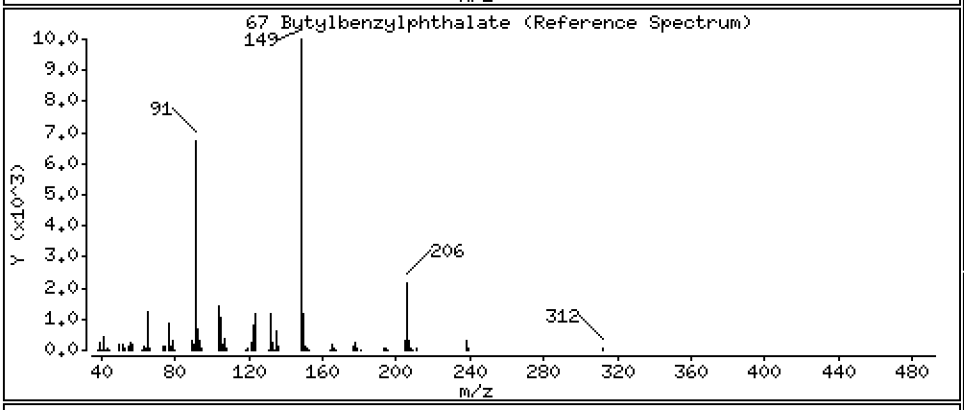
Column diameter: 0.25

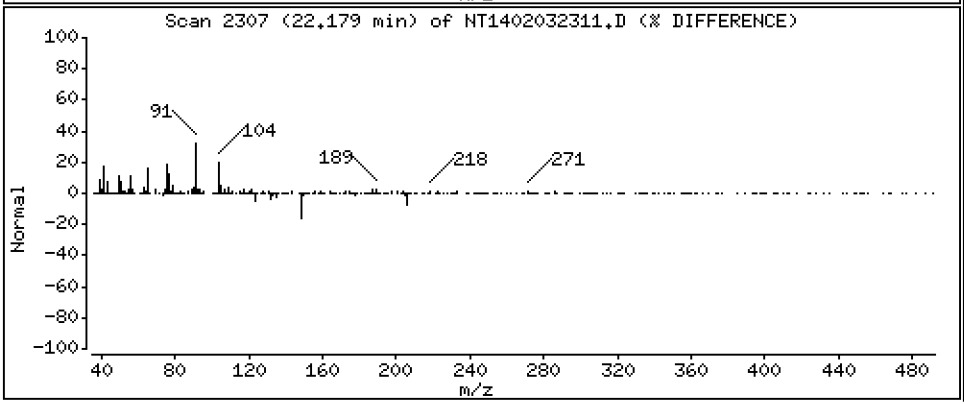
67 Butylbenzylphthalate

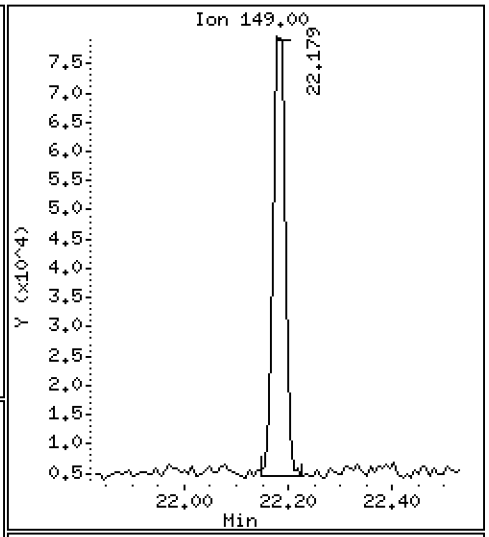
Concentration: 4.275 ug/mL

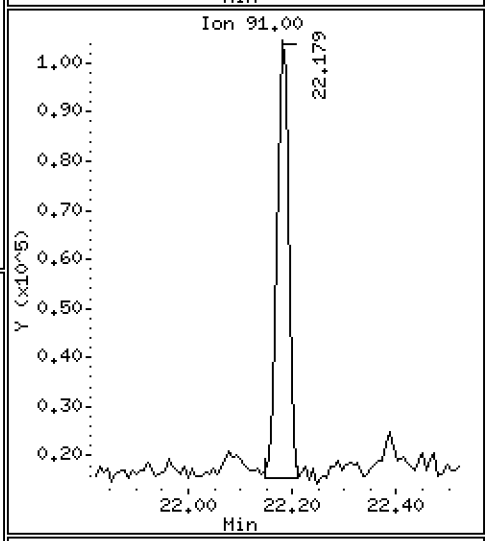


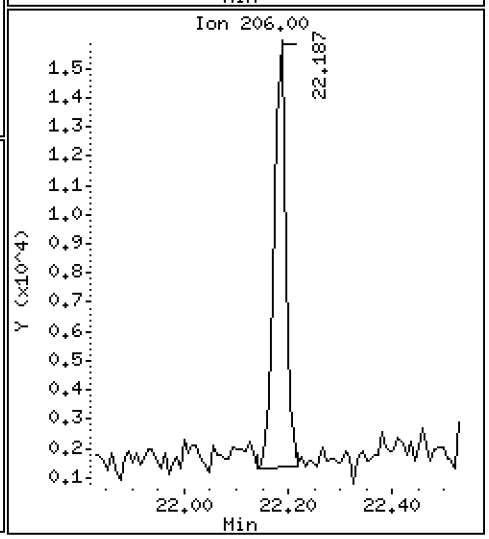












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

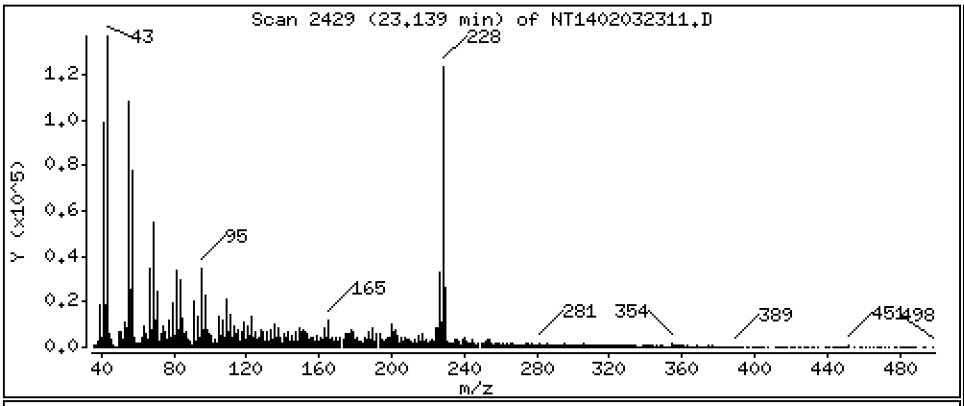
Operator: DSD

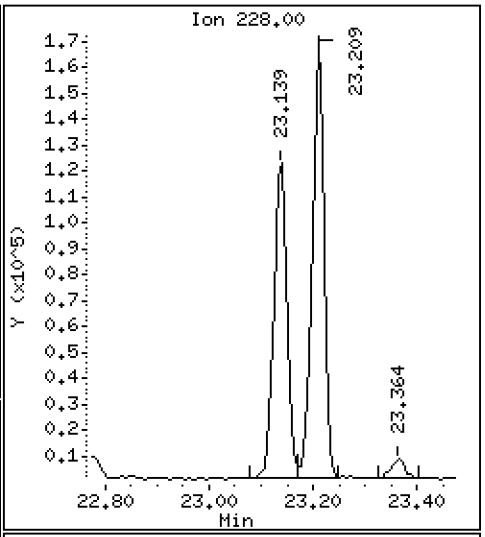
Column phase: ZB-5msi

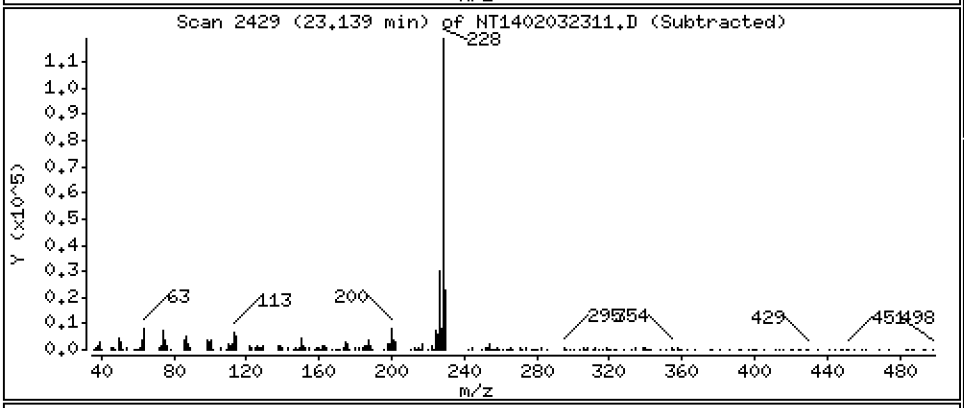
Column diameter: 0.25

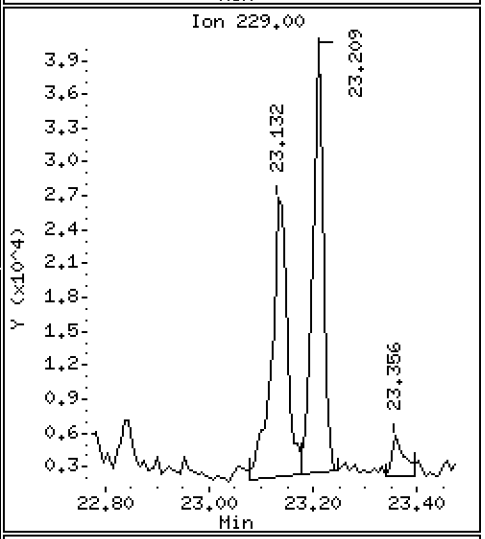
68 Benzo(a)anthracene

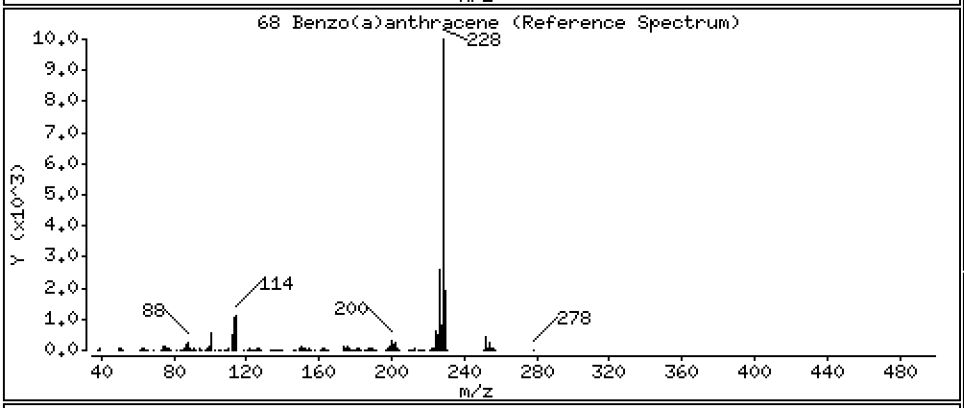
Concentration: 4.757 ug/mL

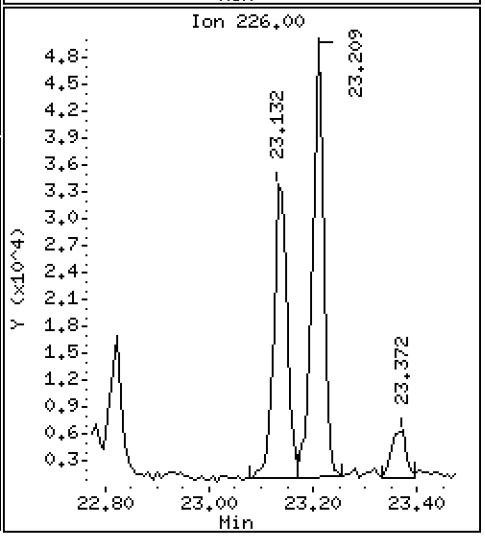


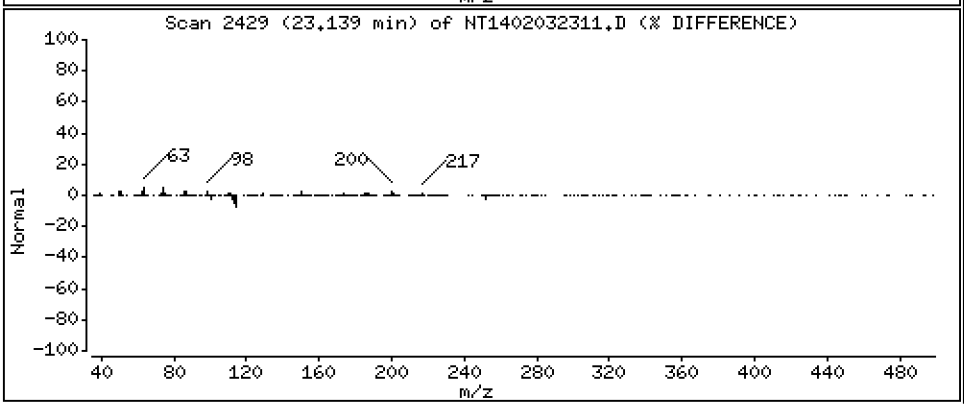












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

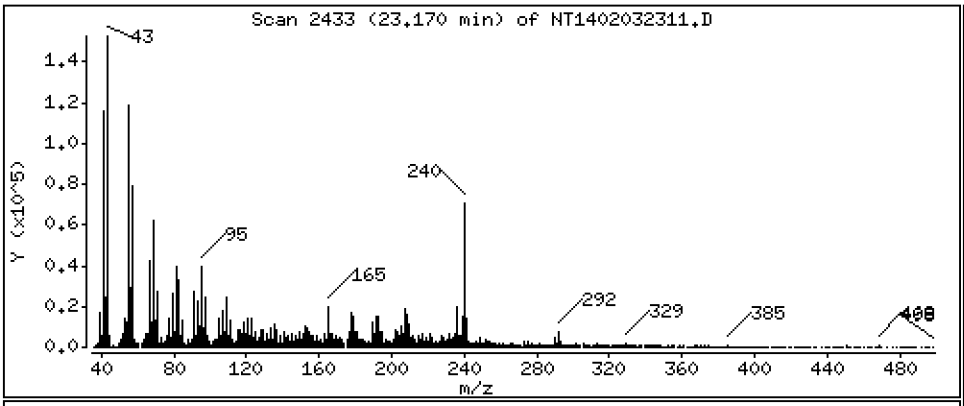
Operator: DSD

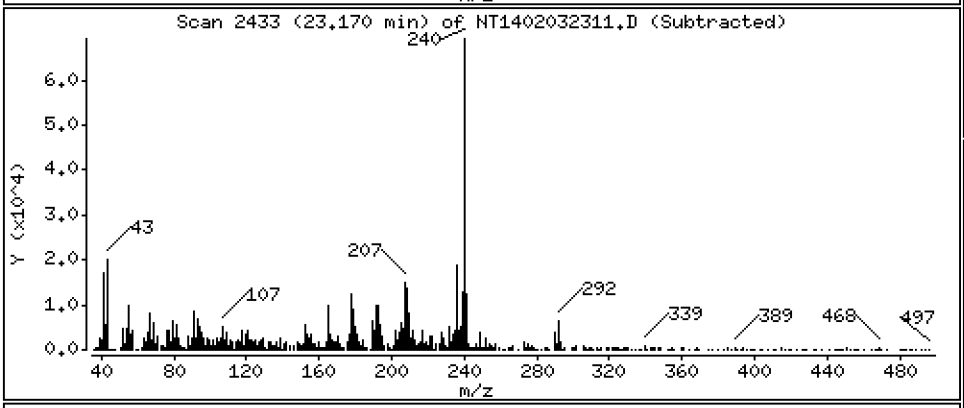
Column phase: ZB-5msi

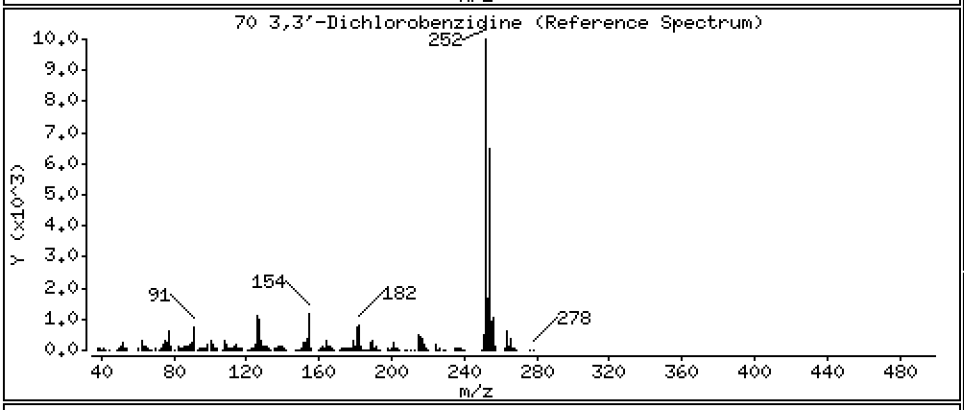
Column diameter: 0.25

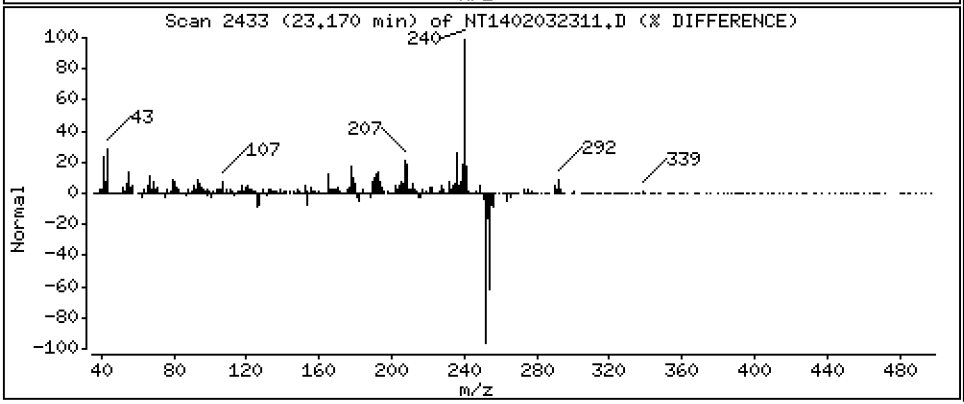
70 3,3'-Dichlorobenzidine

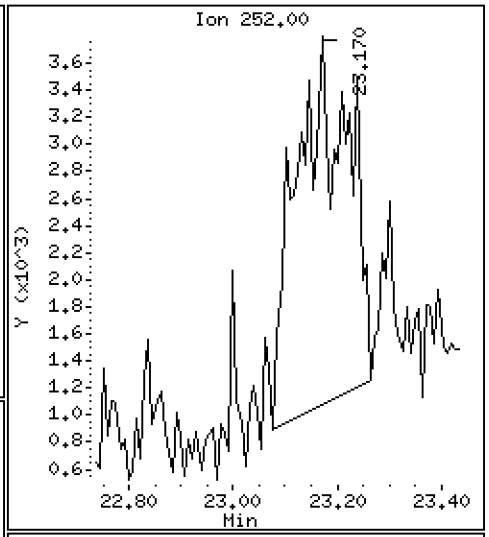
Concentration: 0.9314 ug/mL

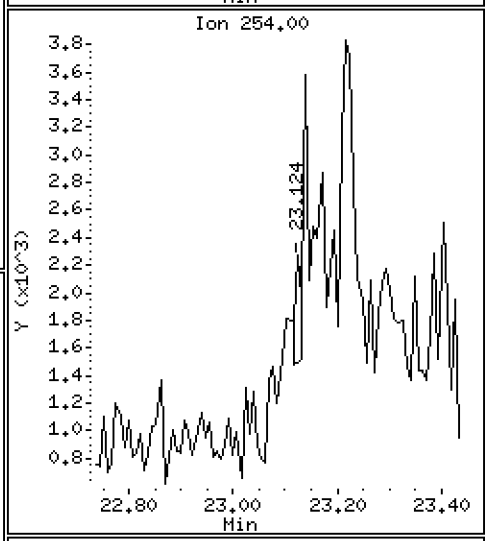


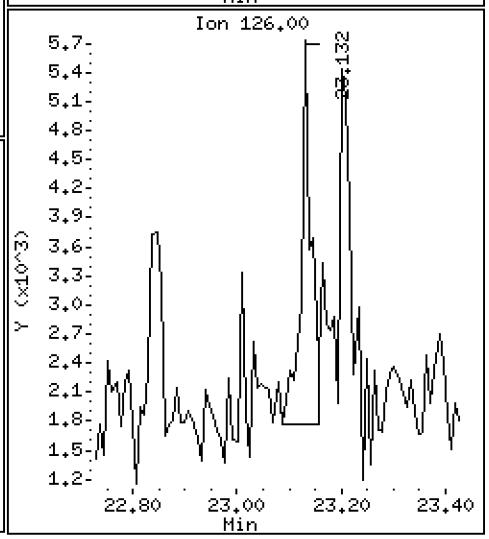












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

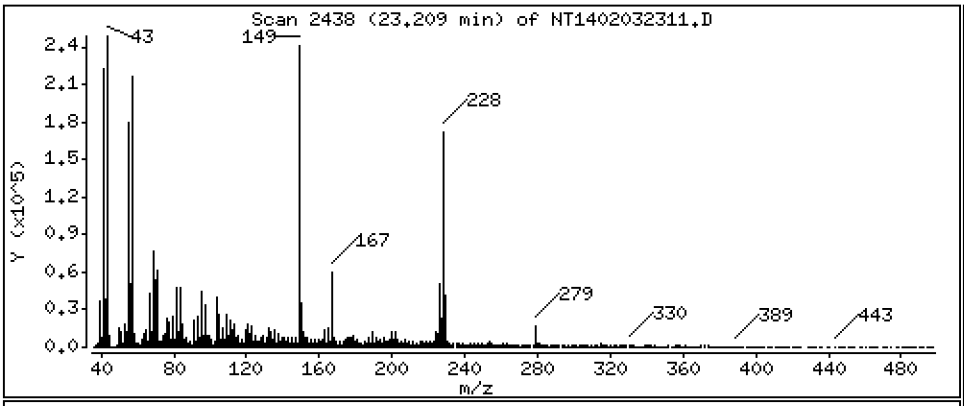
Operator: DSD

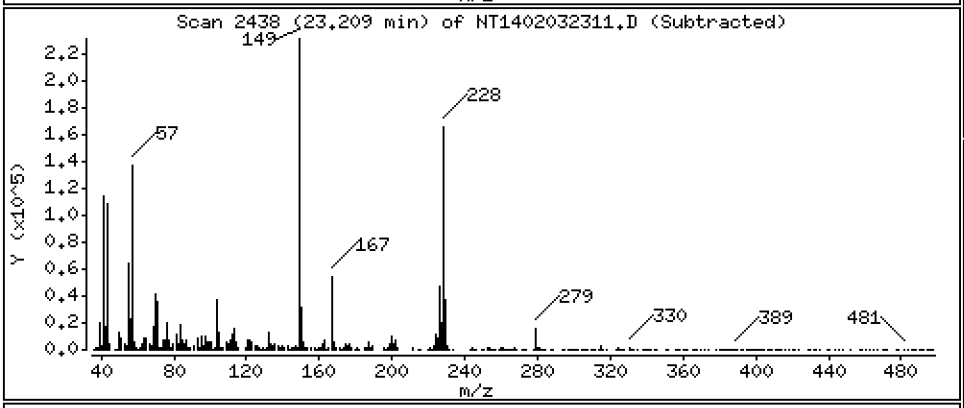
Column phase: ZB-5msi

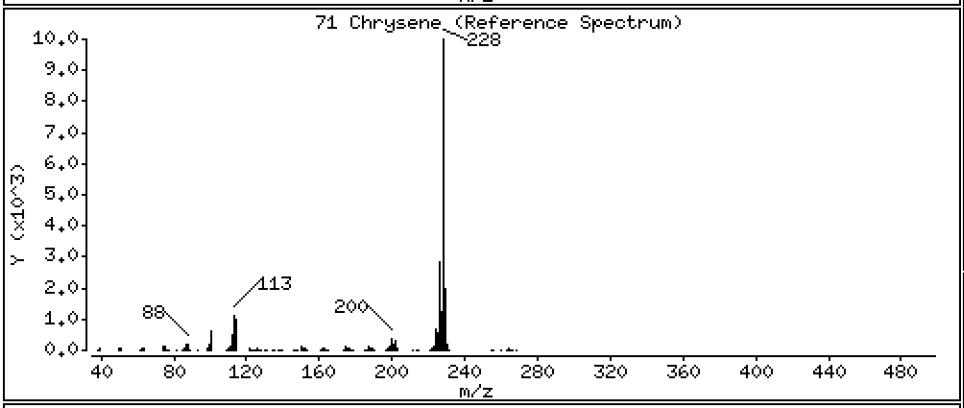
Column diameter: 0.25

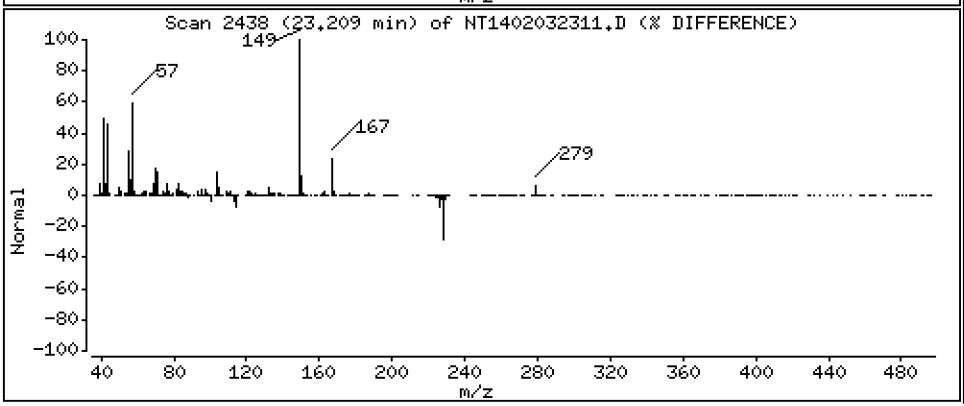
71 Chrysene

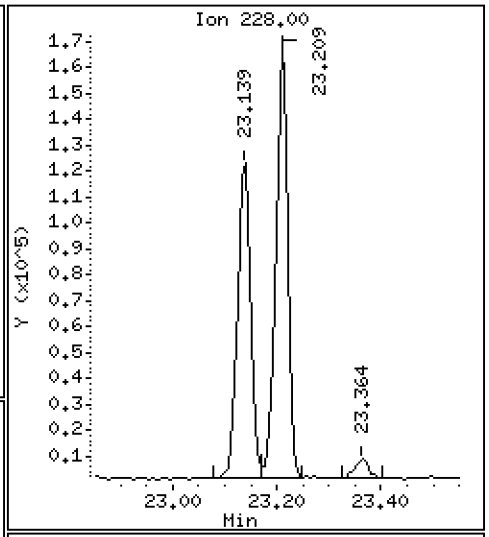
Concentration: 5.644 ug/mL

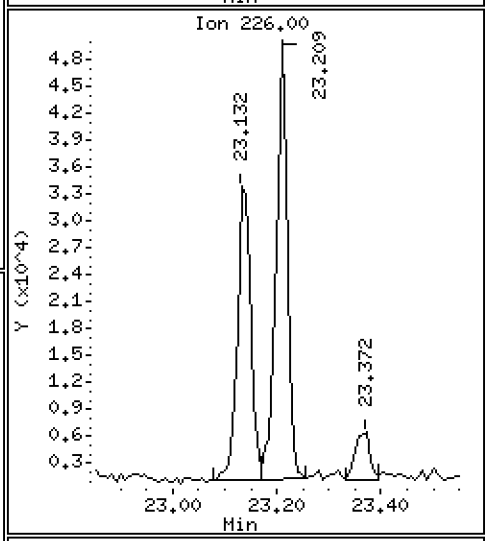


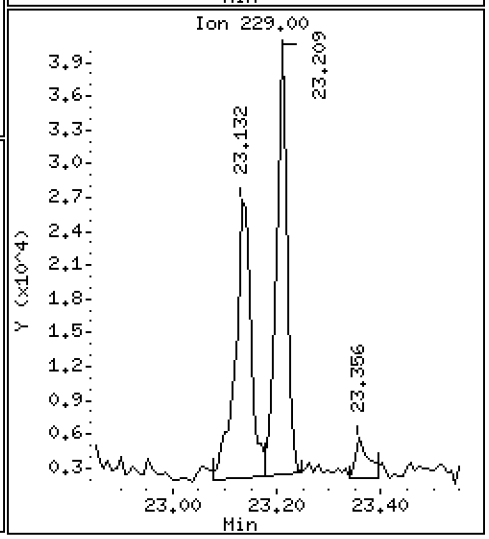












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

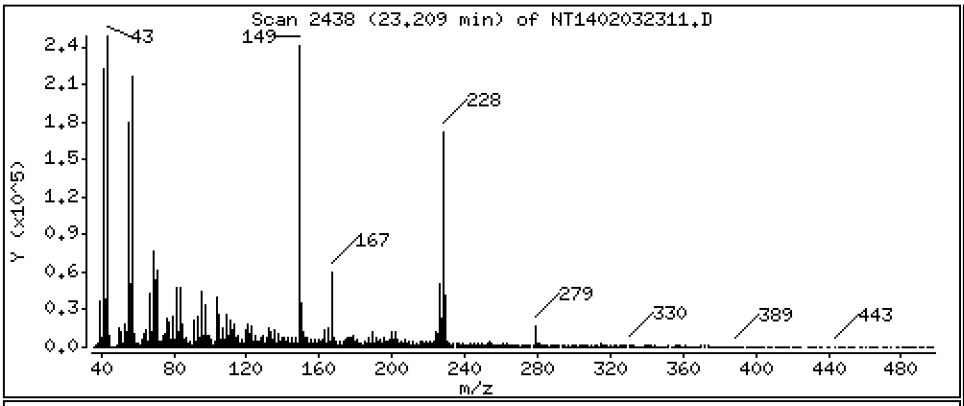
Operator: DSD

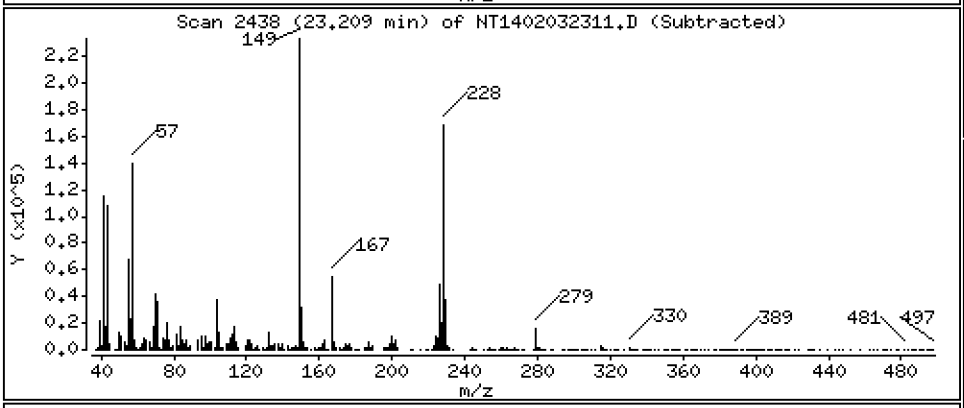
Column phase: ZB-5msi

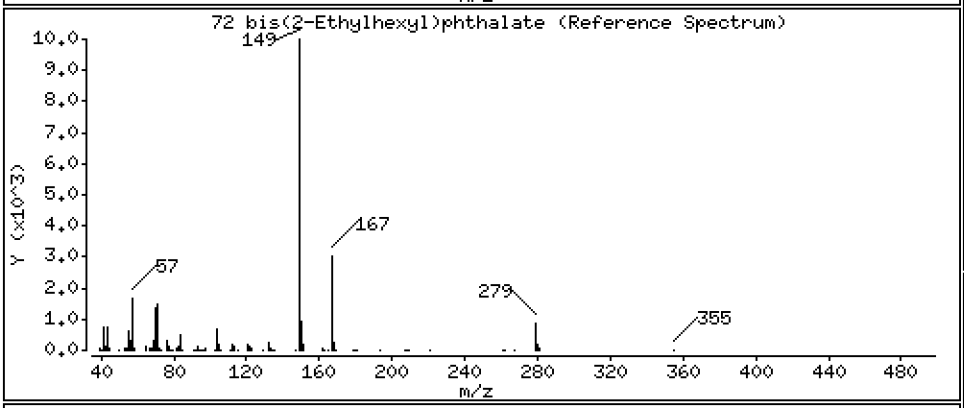
Column diameter: 0.25

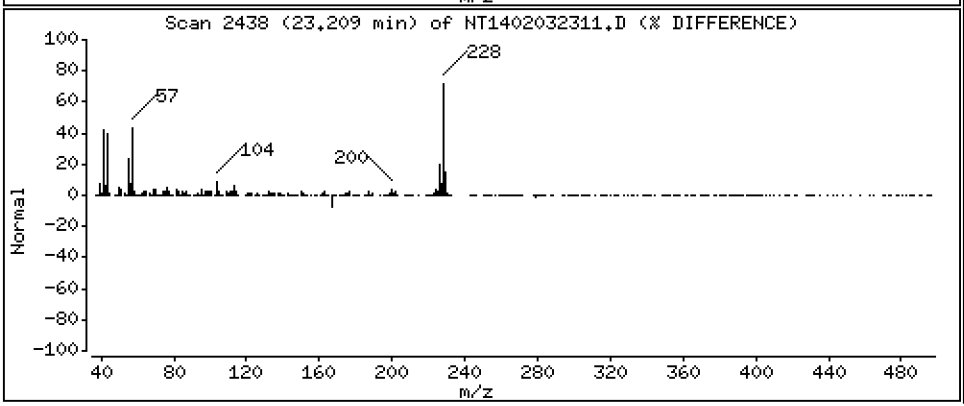
72 bis(2-Ethylhexyl)phthalate

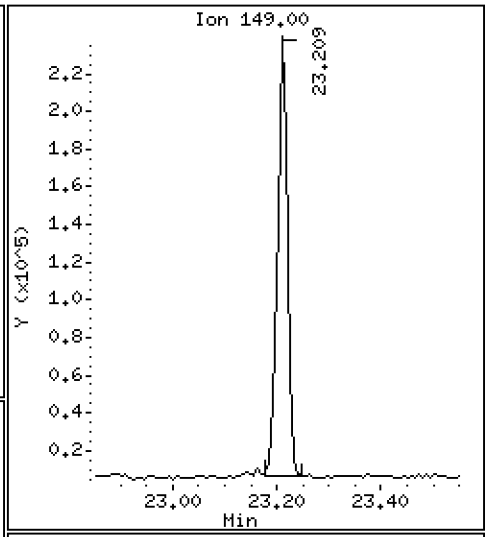
Concentration: 7.988 ug/mL

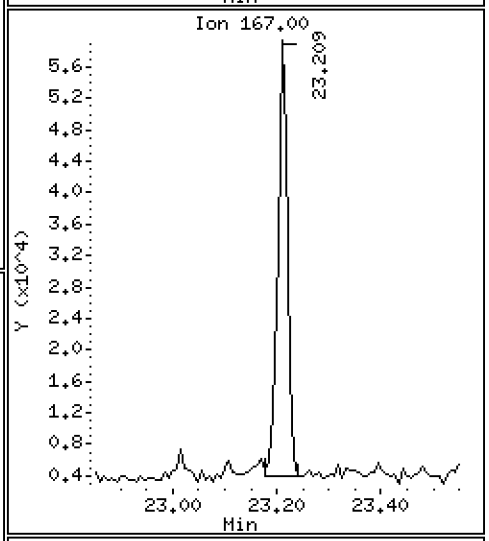


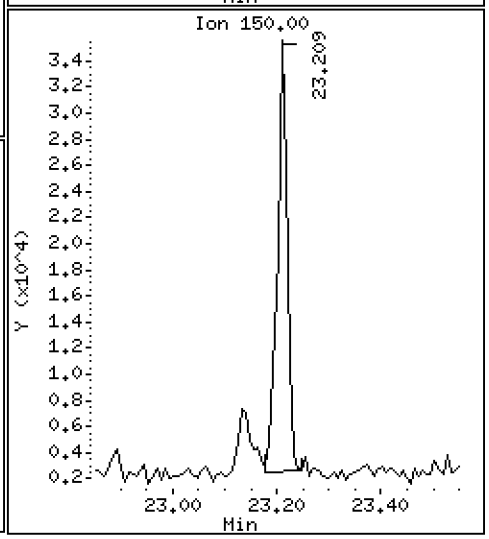












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

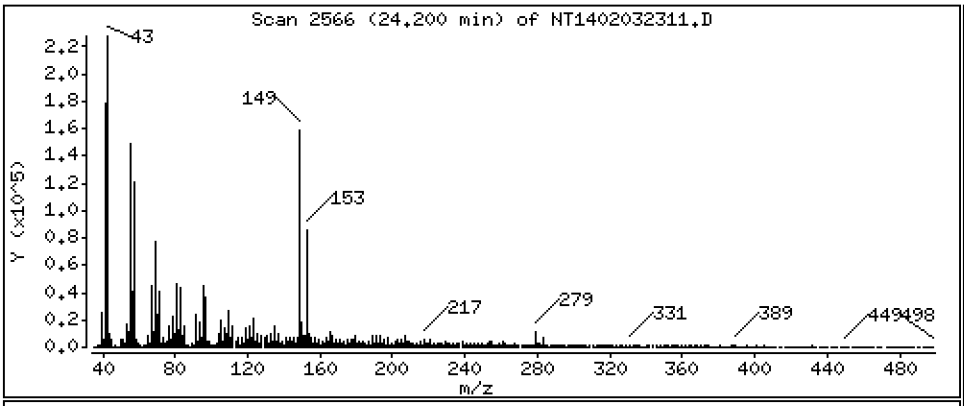
Operator: DSD

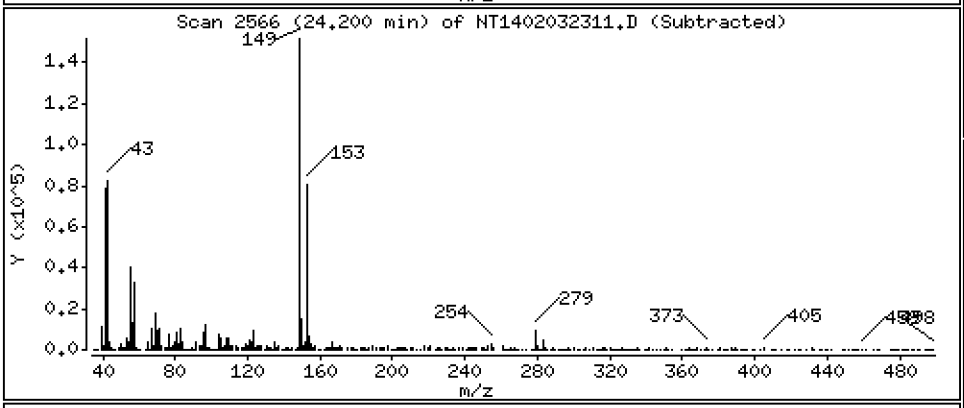
Column phase: ZB-5msi

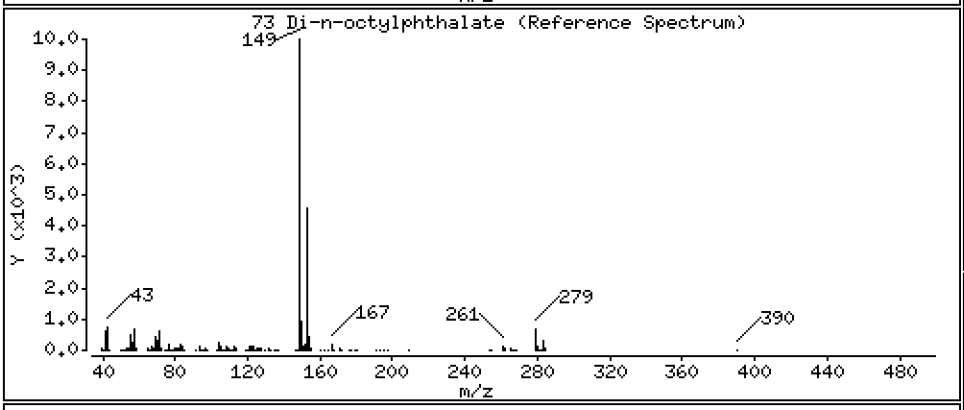
Column diameter: 0.25

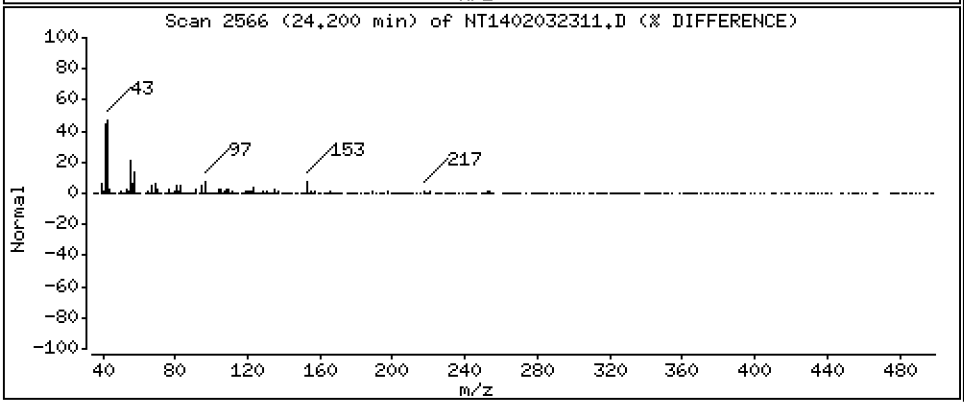
73 Di-n-octylphthalate

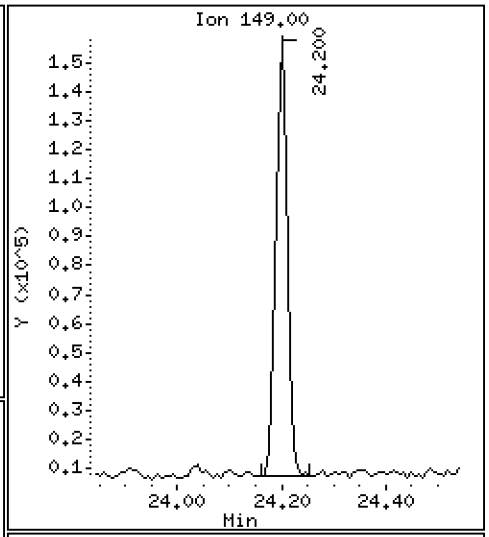
Concentration: 4.152 ug/mL

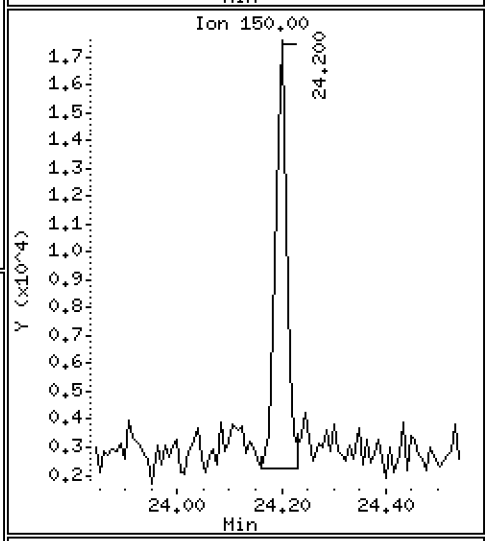


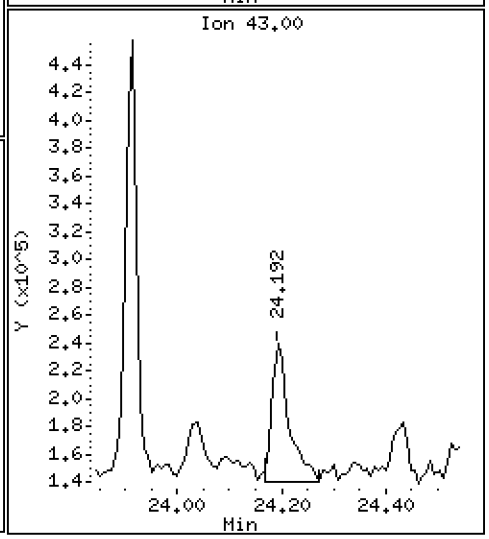












Date : 03-FEB-2023 19:09

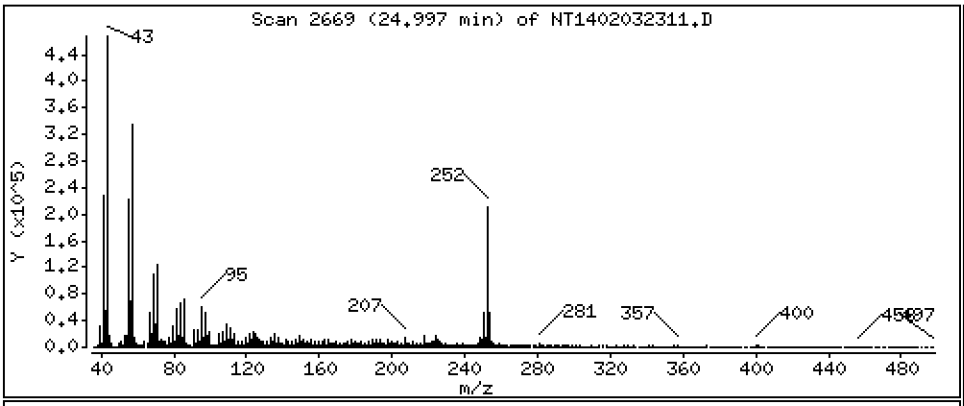
Client ID: Instrument: nt14.i

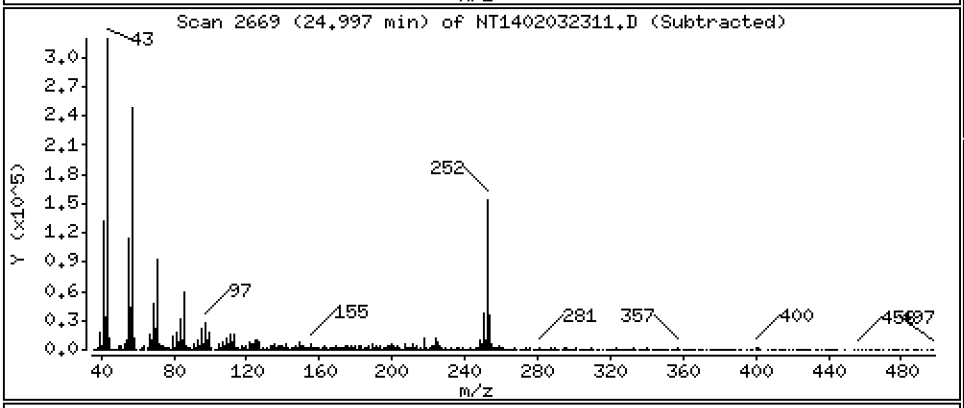
Sample Info: BLA0064-MSD1

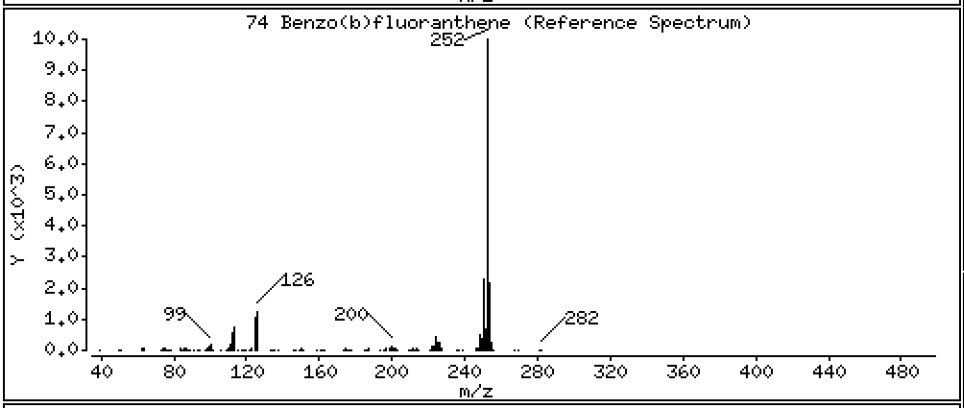
Operator: DSD

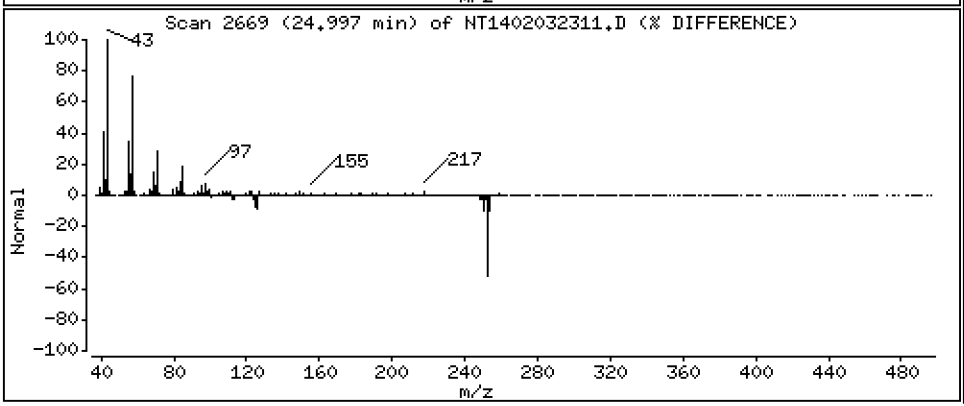
Column phase: ZB-5msi Column diameter: 0.25

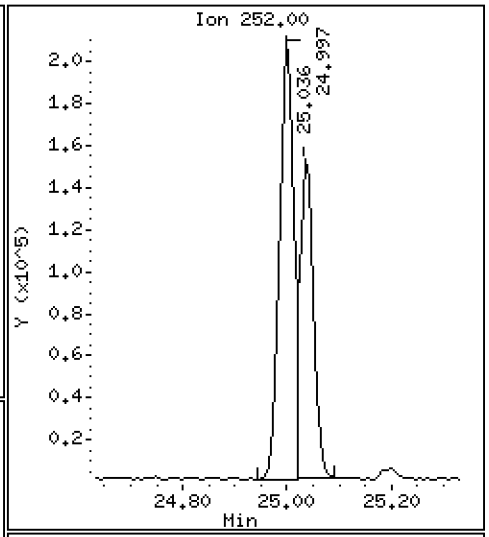
74 Benzo(b)fluoranthene Concentration: 8.873 ug/mL

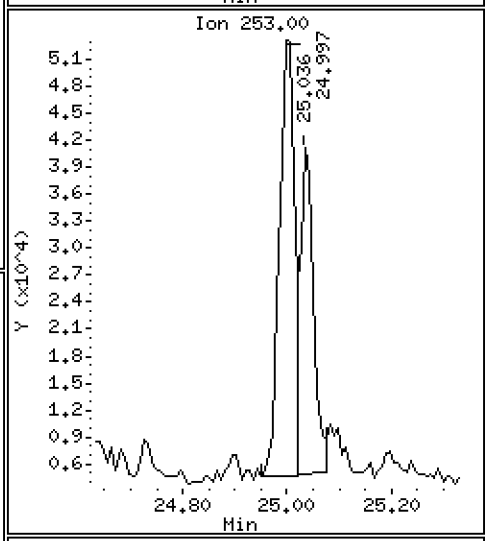


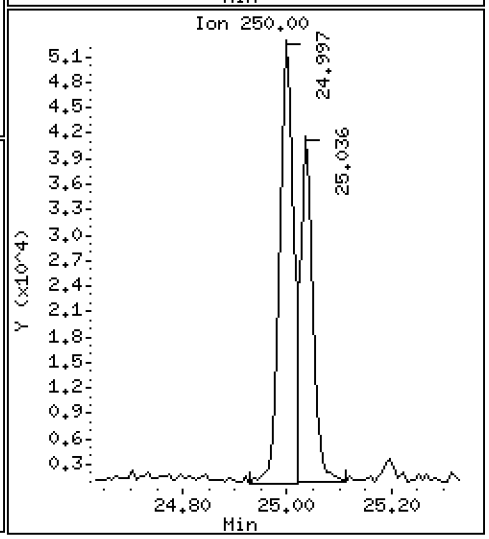












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

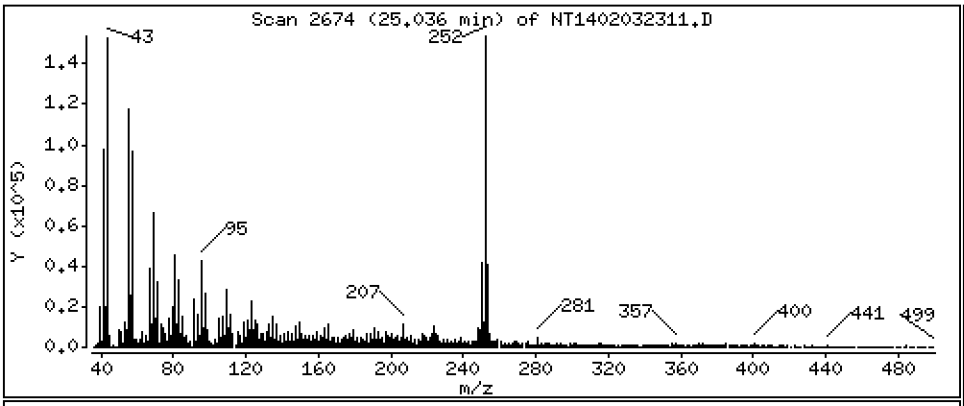
Operator: DSD

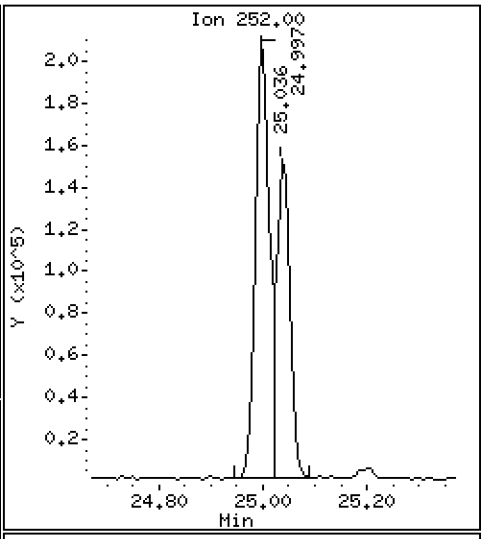
Column phase: ZB-5msi

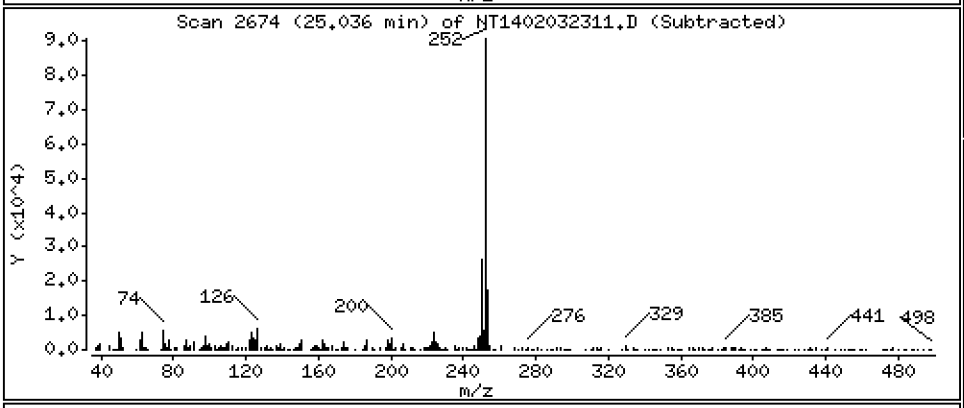
Column diameter: 0.25

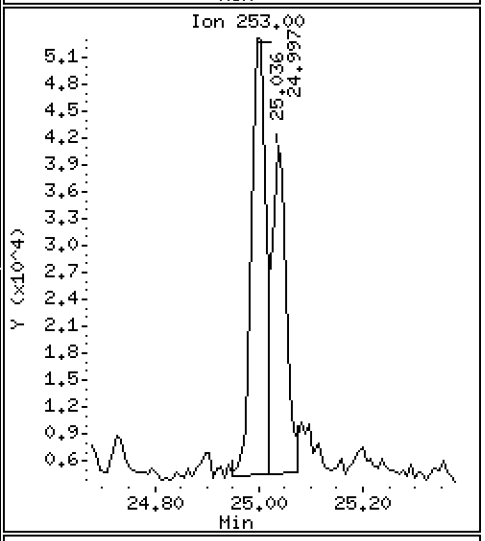
75 Benzo(k)fluoranthene

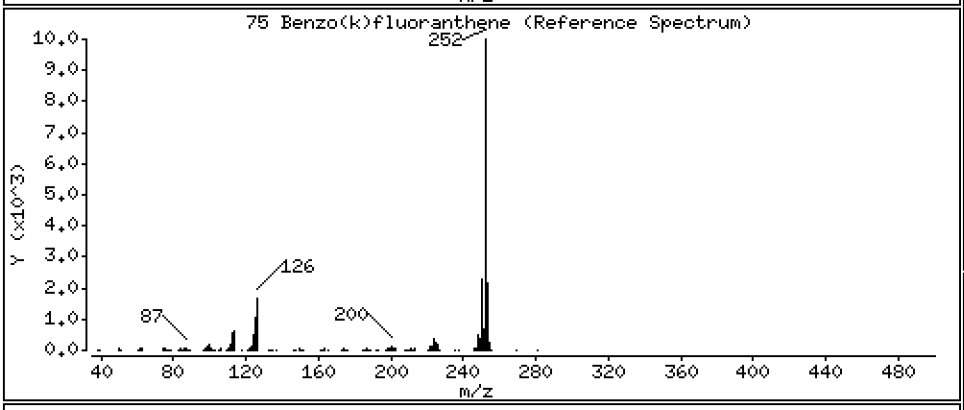
Concentration: 6.353 ug/mL

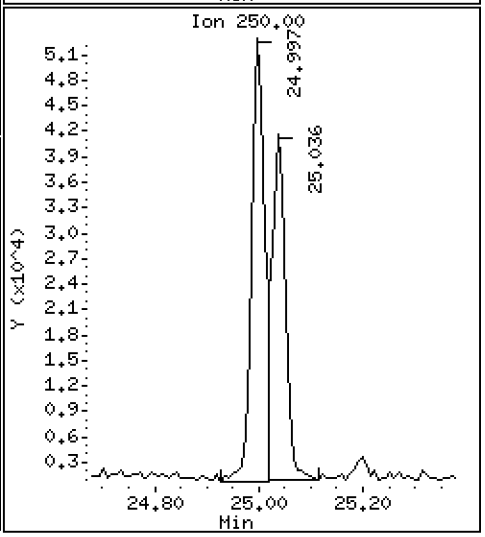


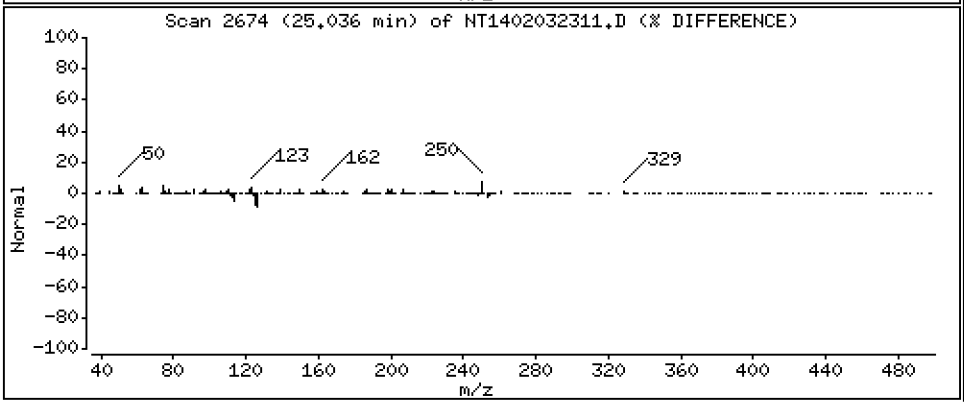












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

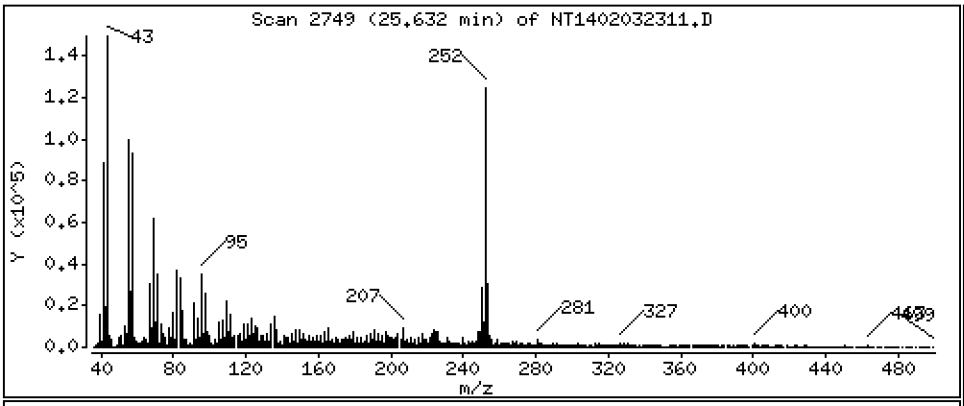
Operator: DSD

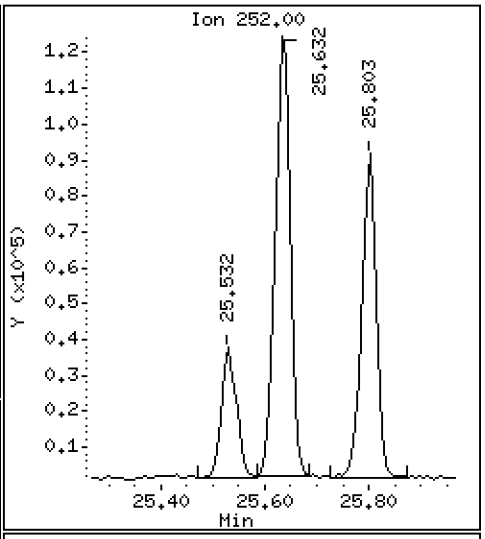
Column phase: ZB-5msi

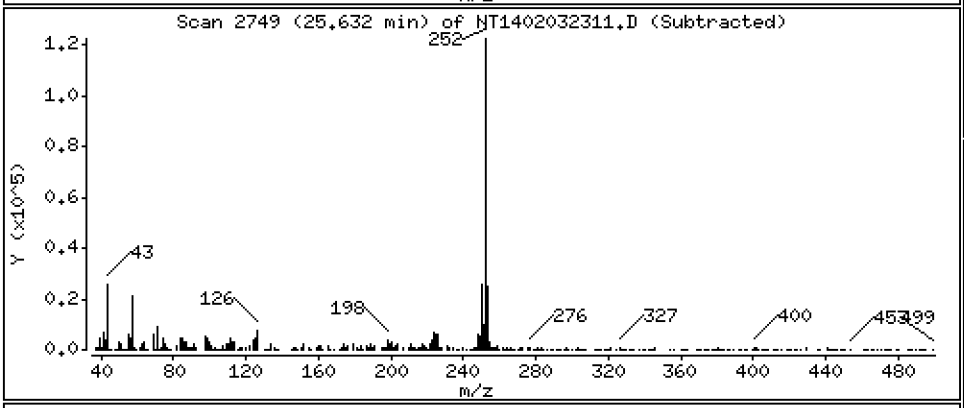
Column diameter: 0.25

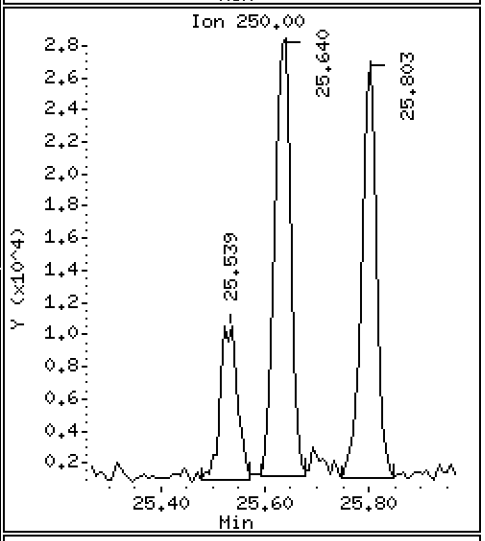
76 Benzo(a)pyrene

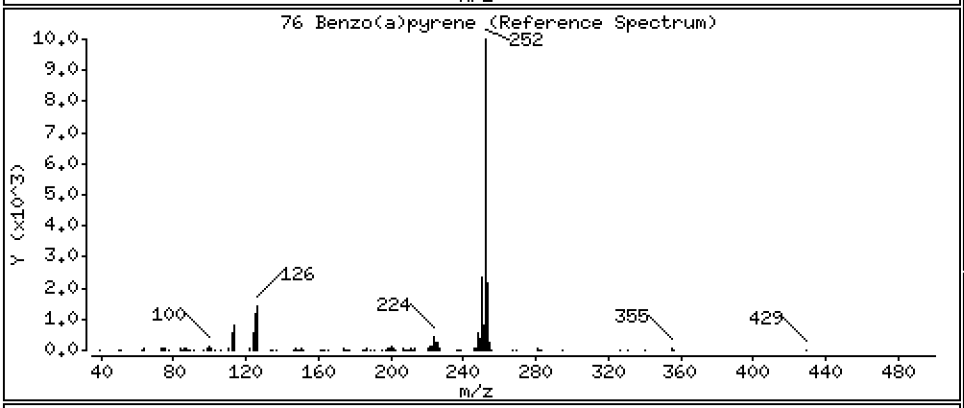
Concentration: 6.325 ug/mL

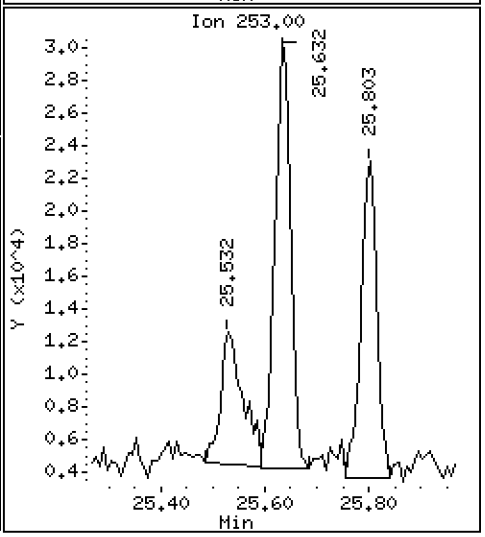


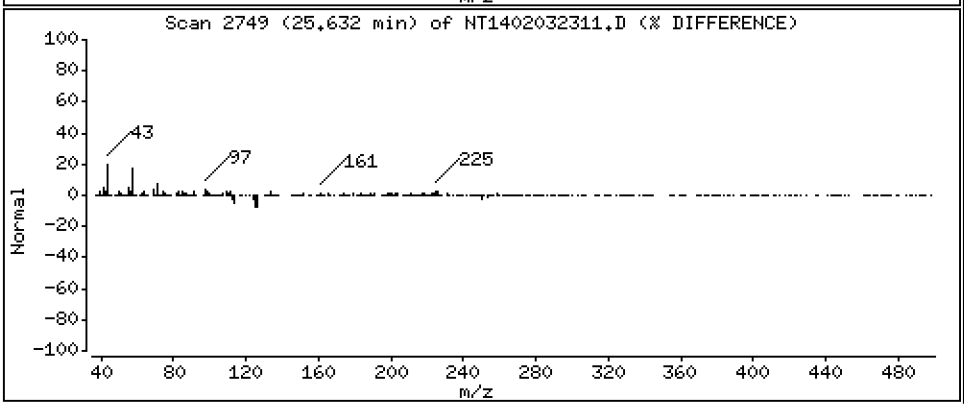












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

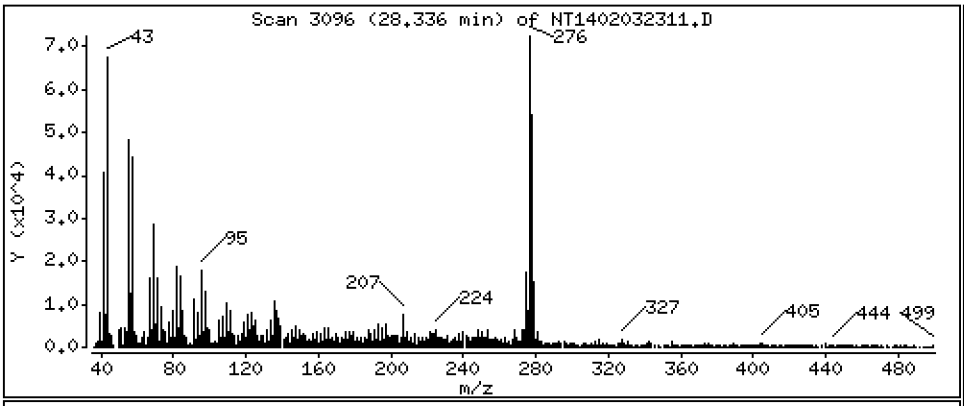
Operator: DSD

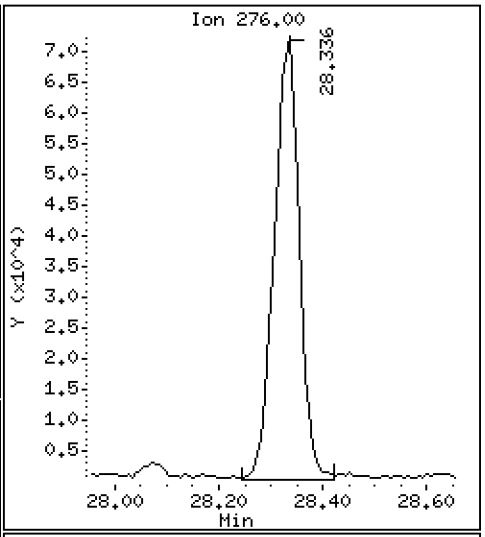
Column phase: ZB-5msi

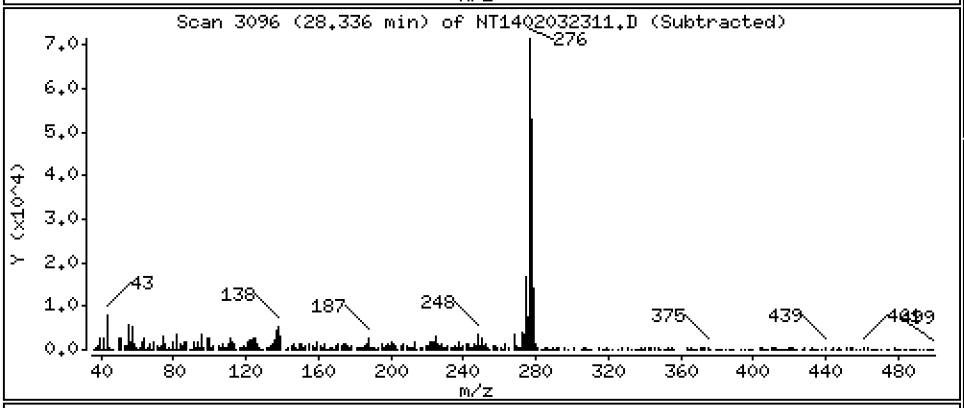
Column diameter: 0.25

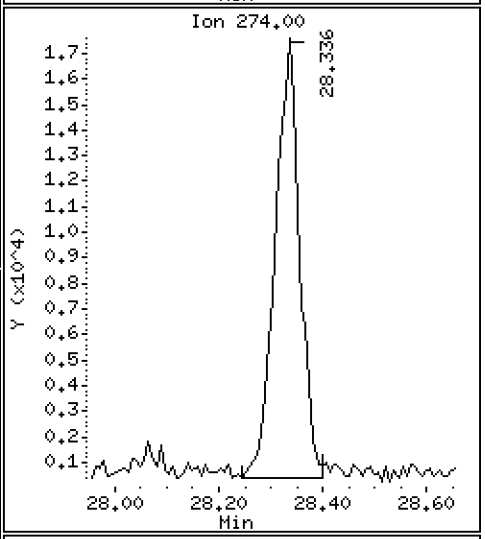
78 Indeno(1,2,3-cd)pyrene

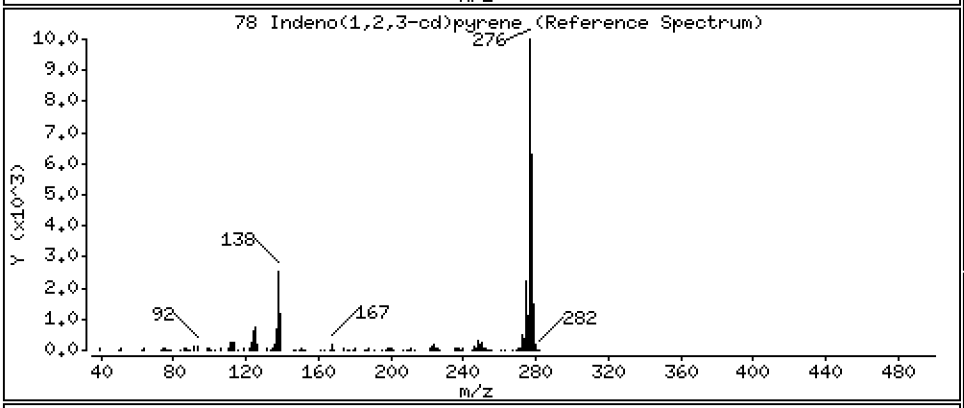
Concentration: 4.973 ug/mL

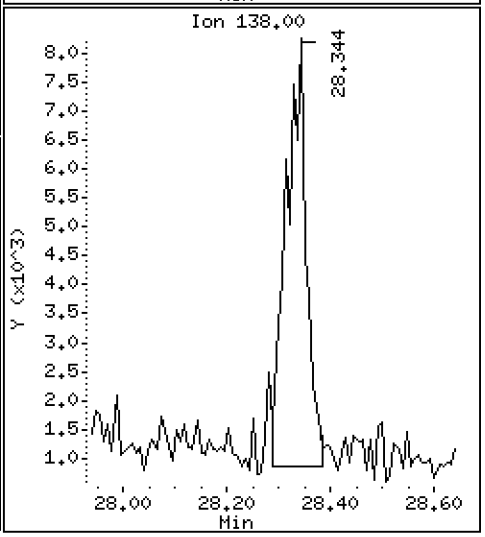


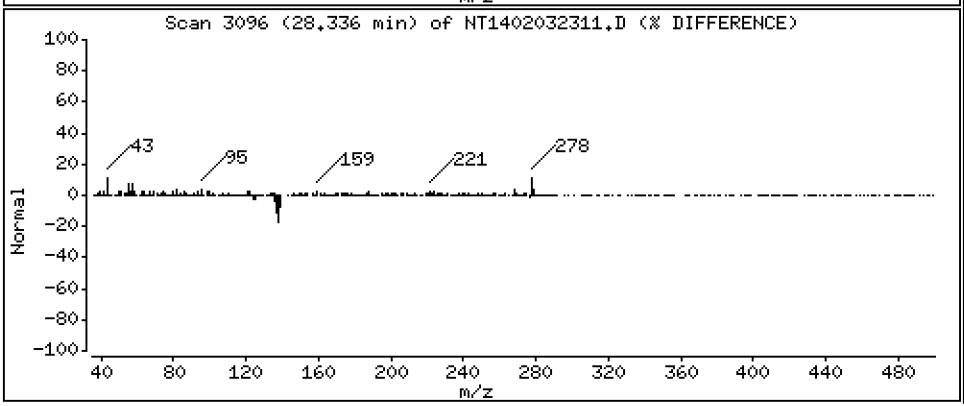












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

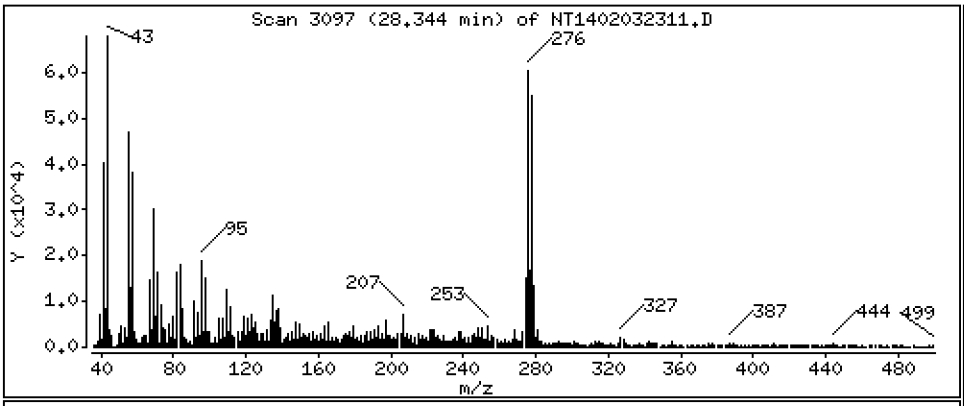
Operator: DSD

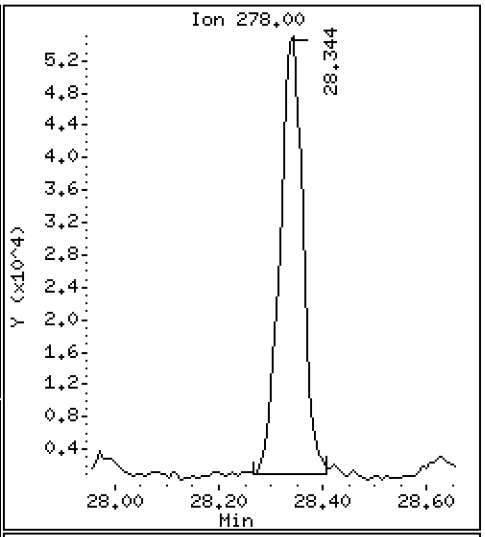
Column phase: ZB-5msi

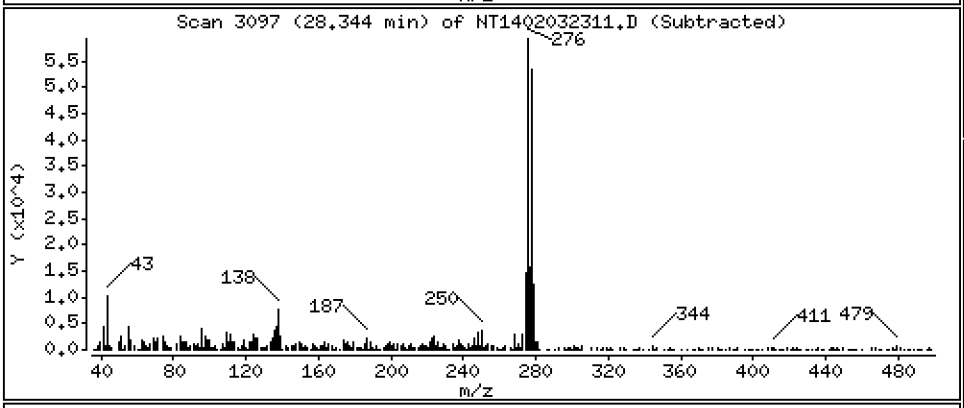
Column diameter: 0.25

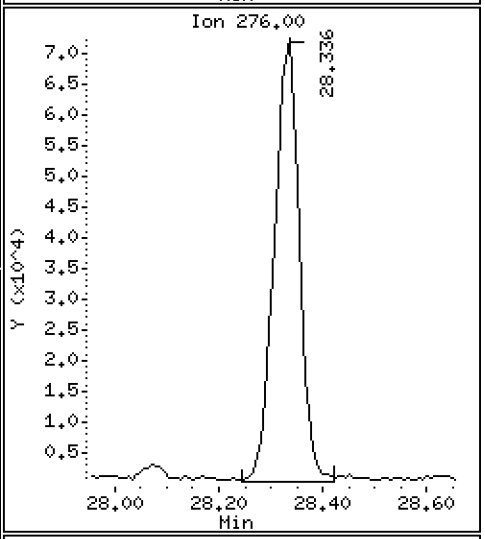
79 Dibenzo(a,h)anthracene

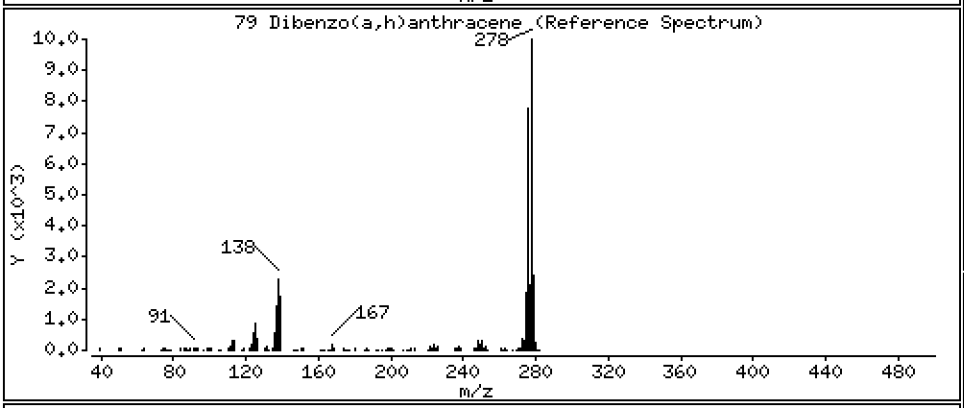
Concentration: 4.045 ug/mL

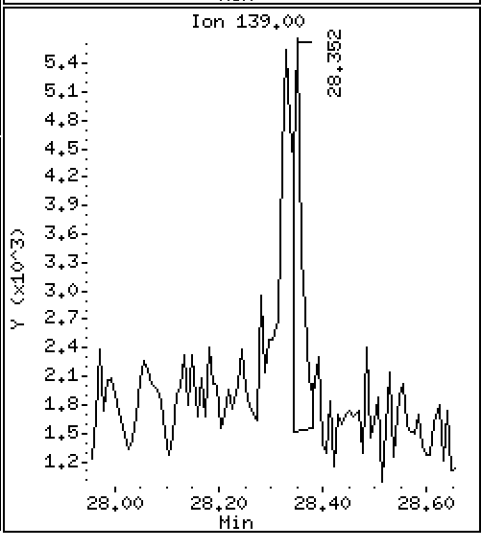


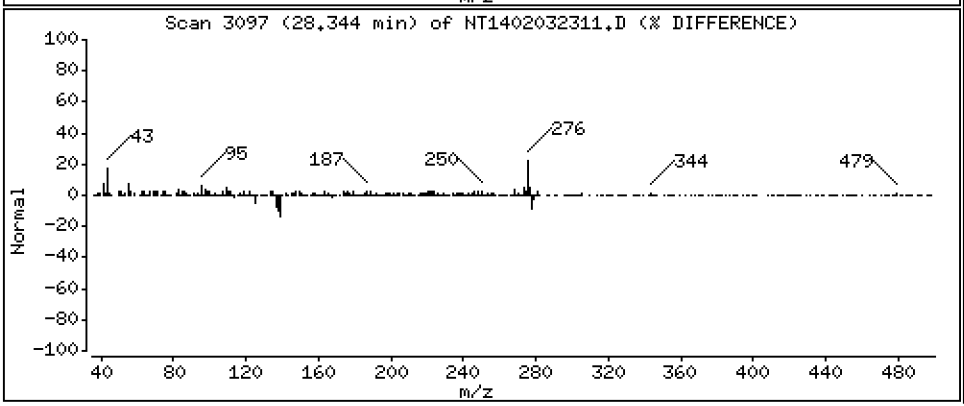












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

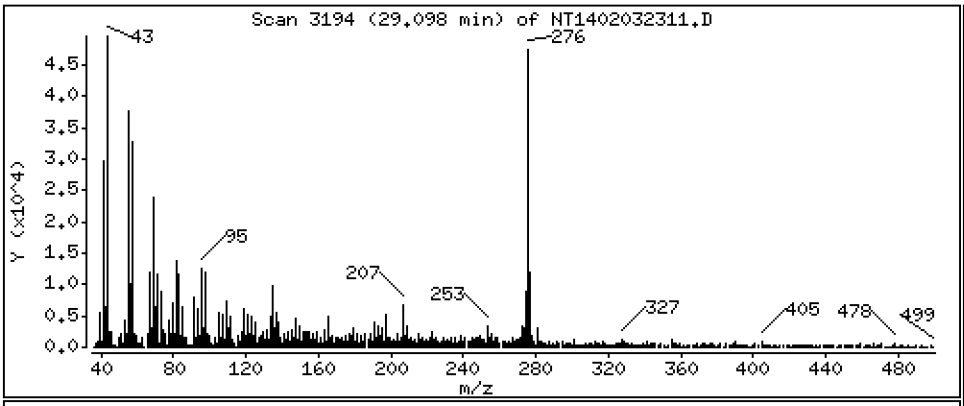
Operator: DSD

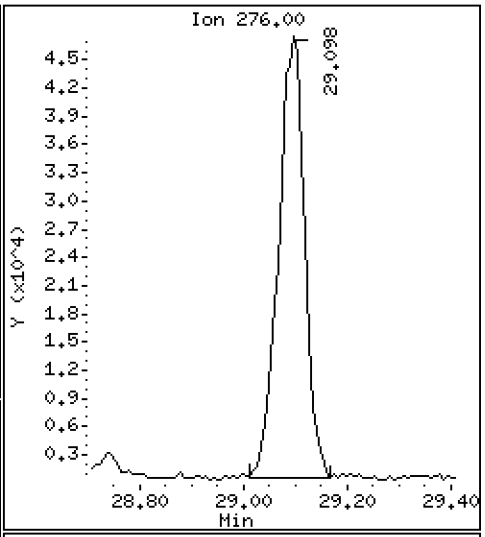
Column phase: ZB-5msi

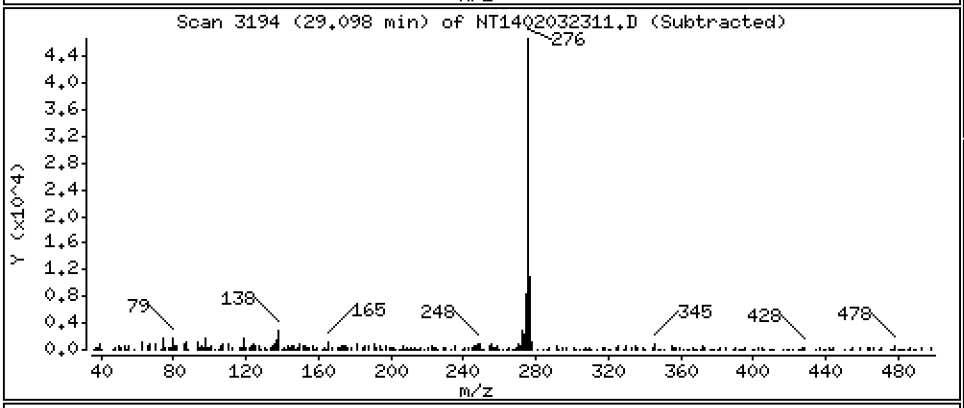
Column diameter: 0.25

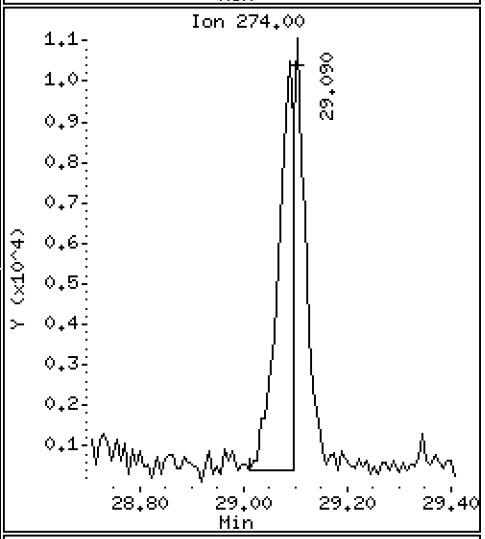
80 Benzo(g,h,i)perylene

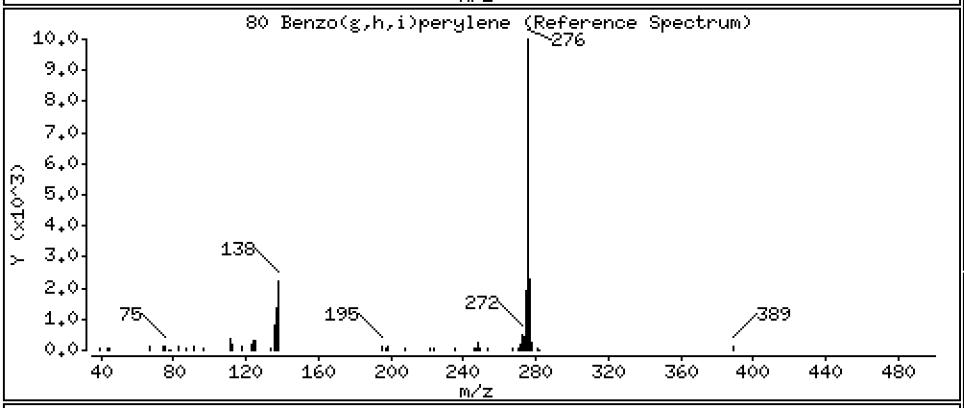
Concentration: 4.655 ug/mL

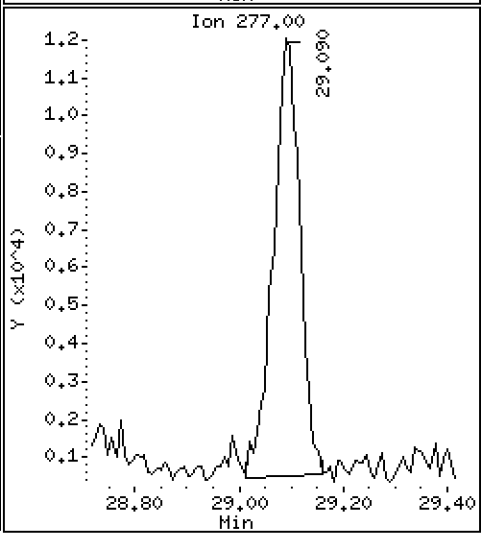


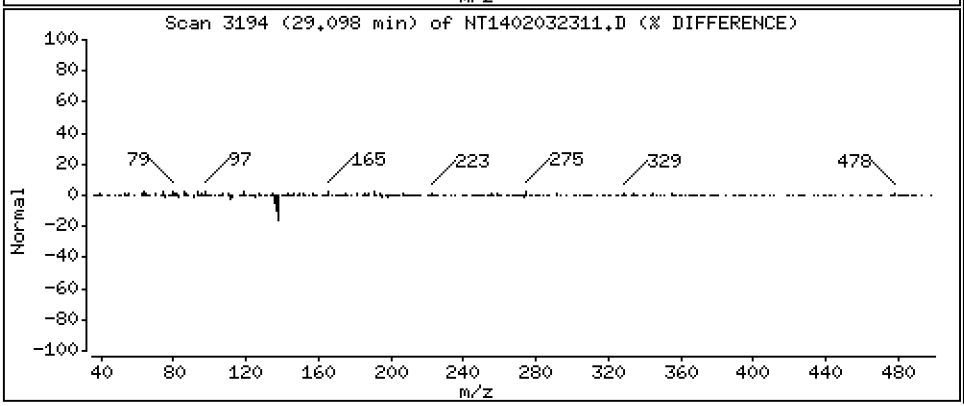












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

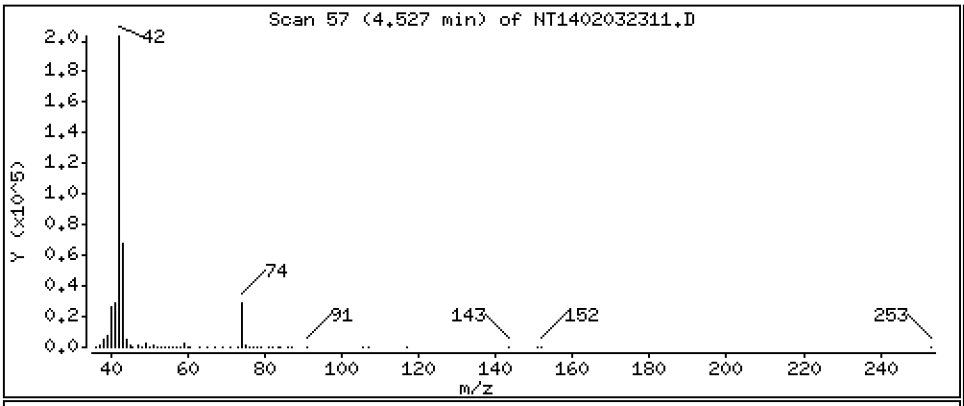
Operator: DSD

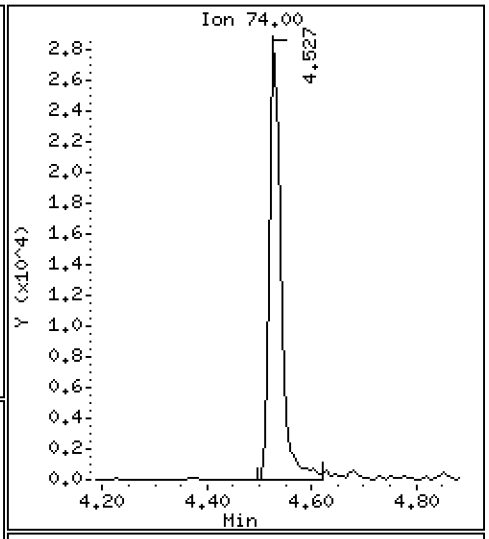
Column phase: ZB-5msi

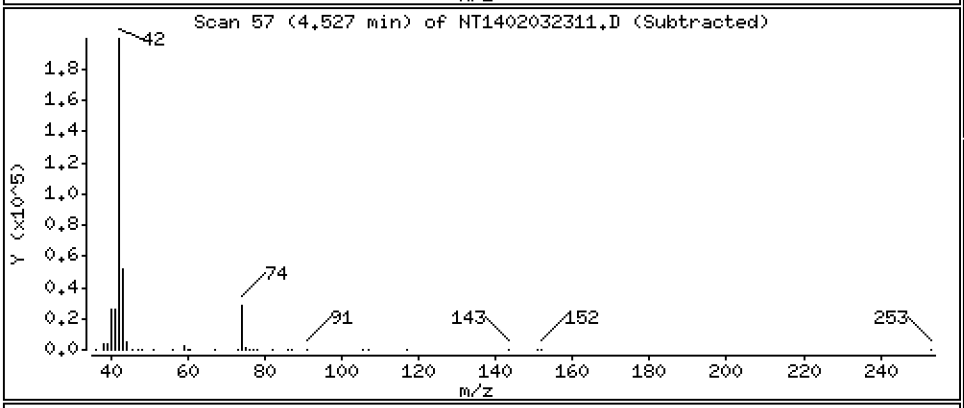
Column diameter: 0.25

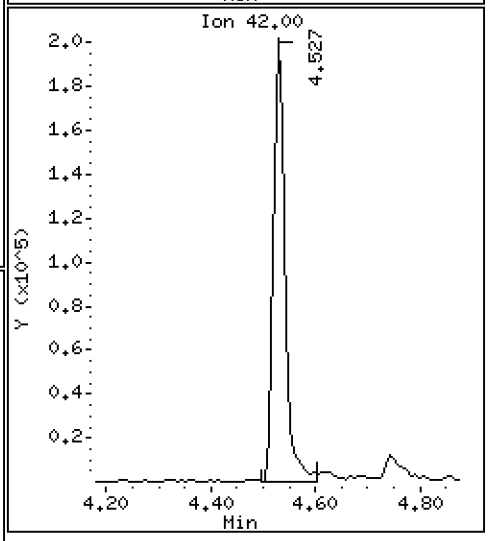
90 N-Nitrosodimethylamine

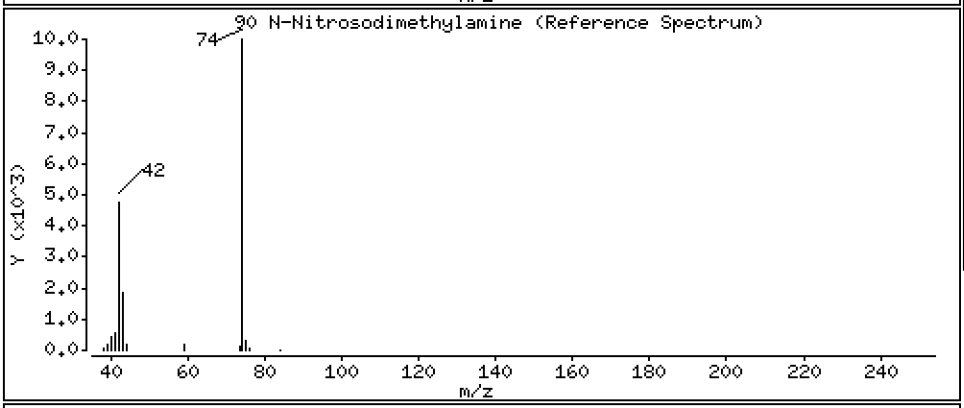
Concentration: 4.610 ug/mL

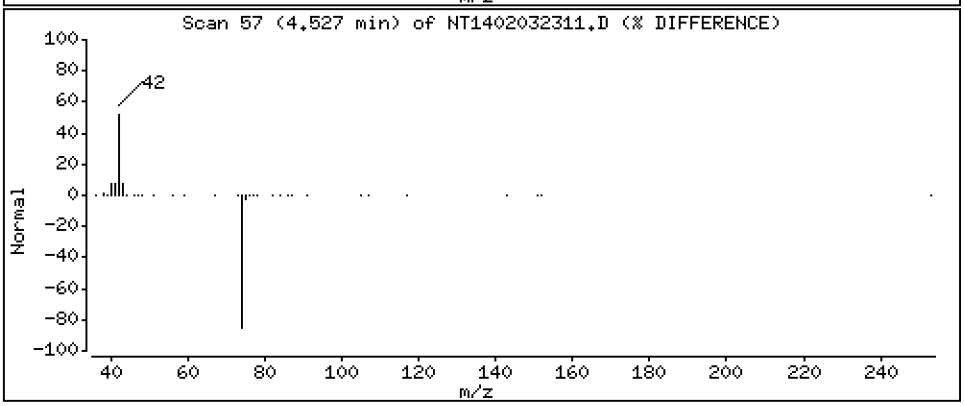












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032311.D

Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

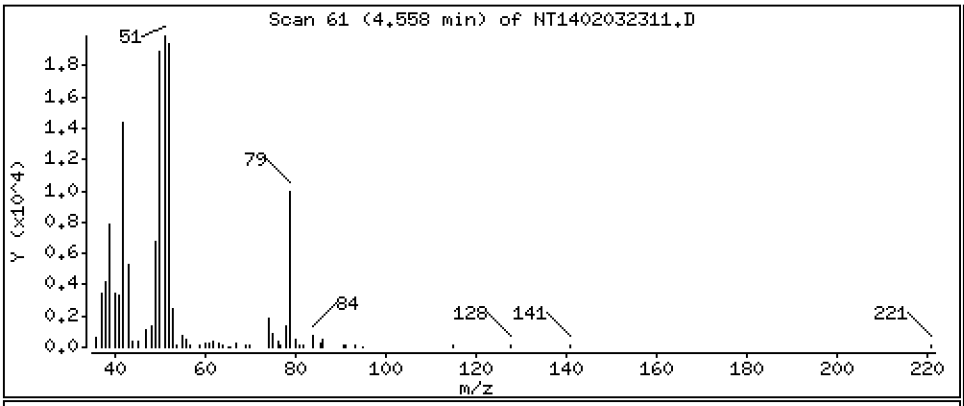
Operator: DSD

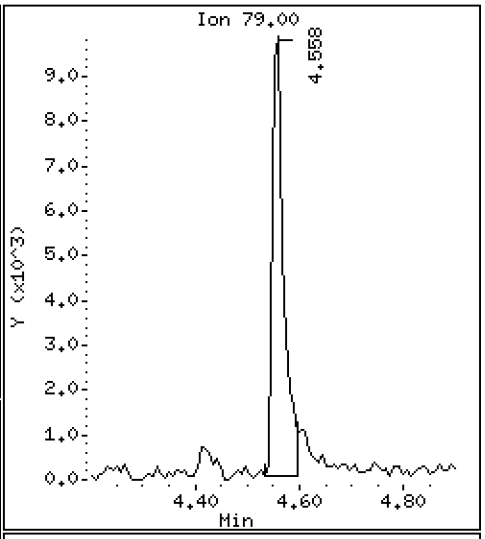
Column phase: ZB-5msi

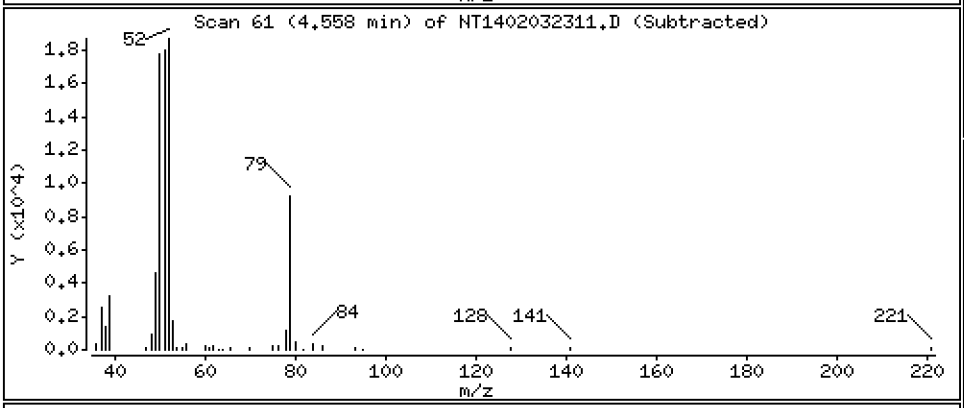
Column diameter: 0.25

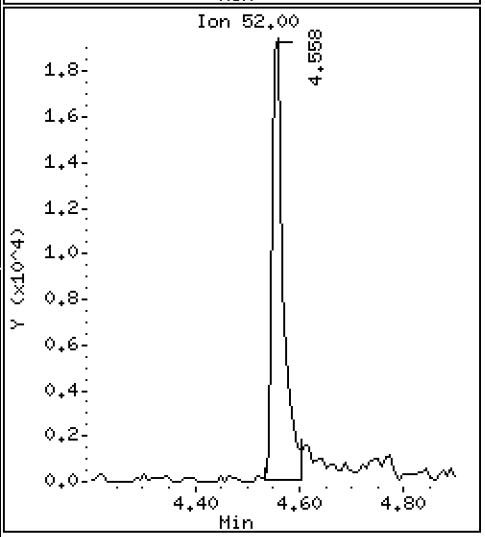
103 Pyridine

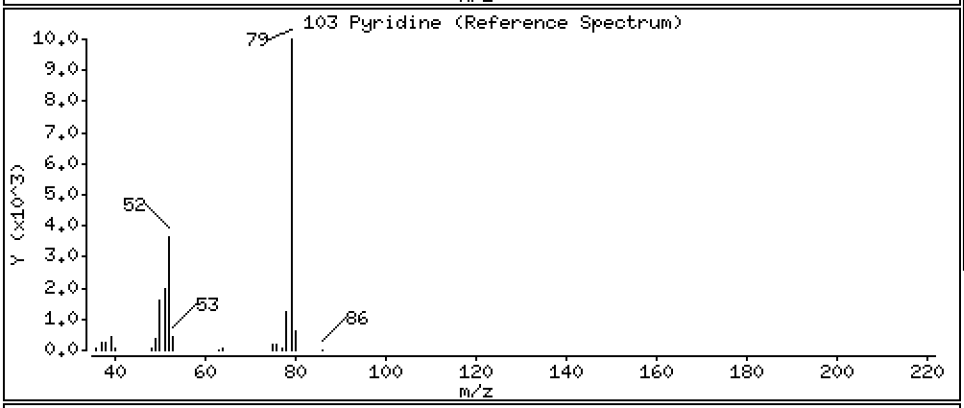
Concentration: 0.5686 ug/mL

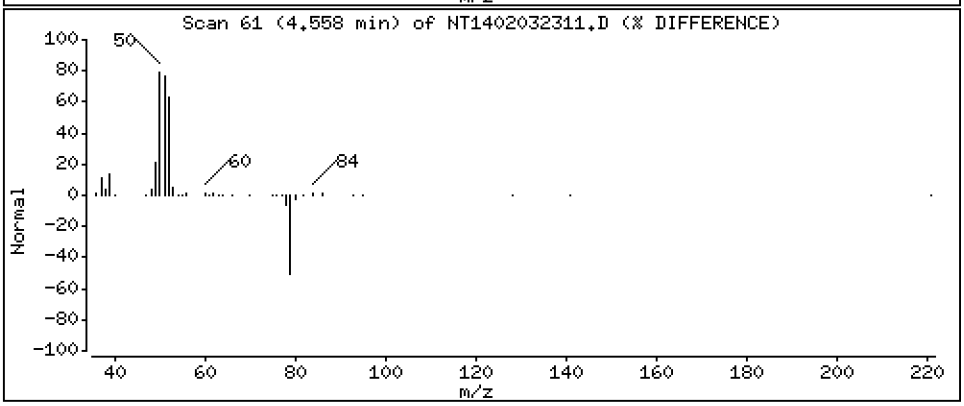












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

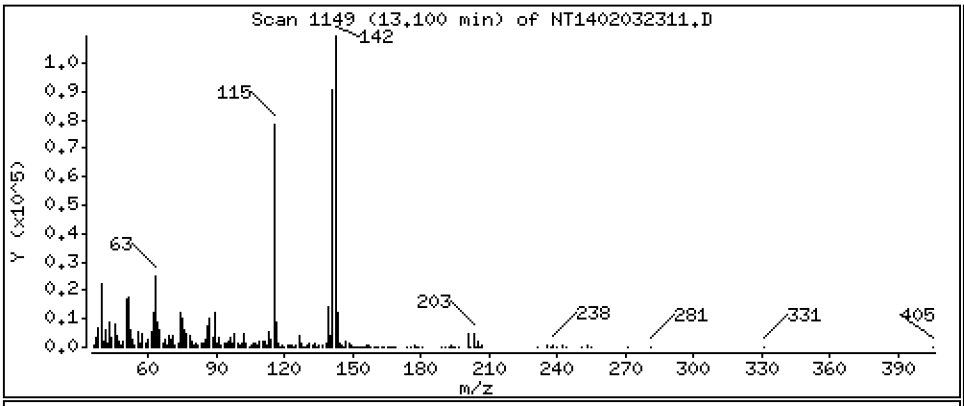
Operator: DSD

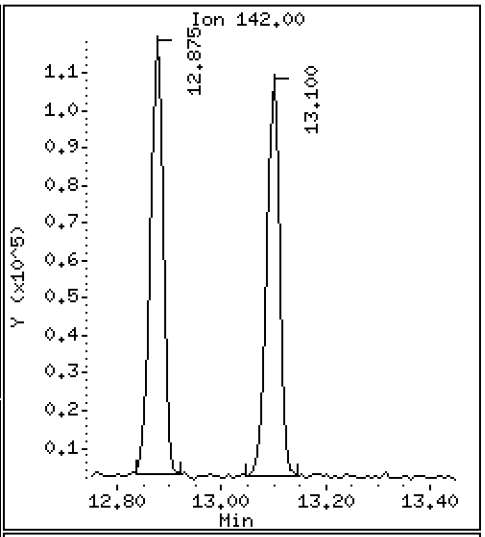
Column phase: ZB-5msi

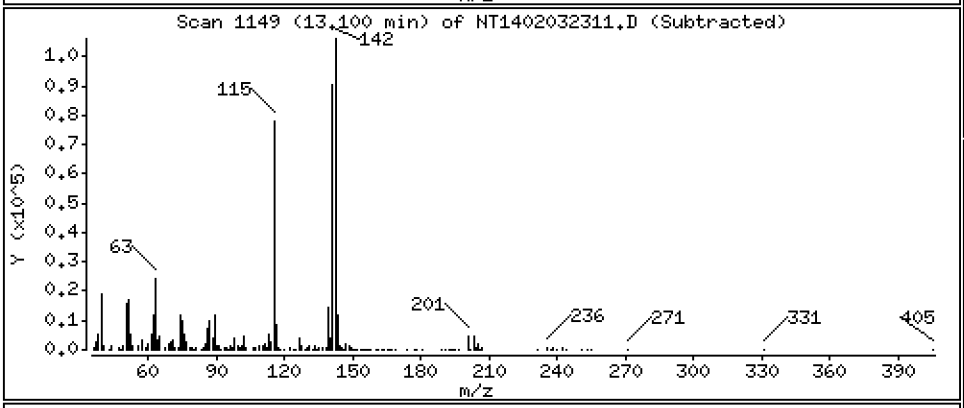
Column diameter: 0.25

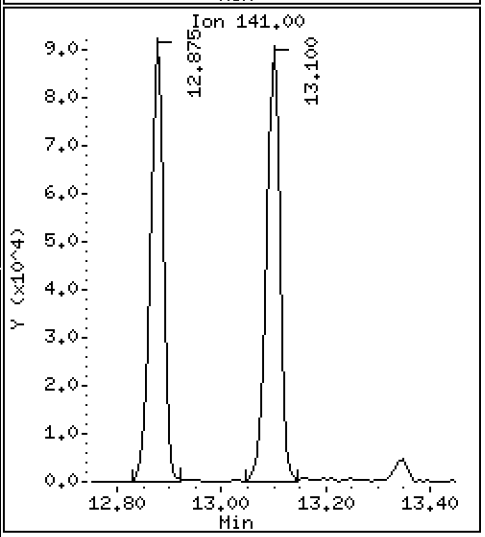
105 1-methylnaphthalene

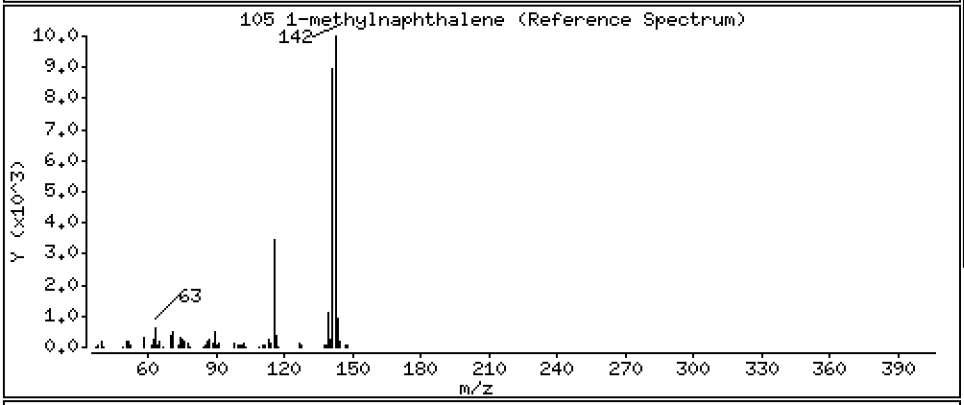
Concentration: 3.893 ug/mL

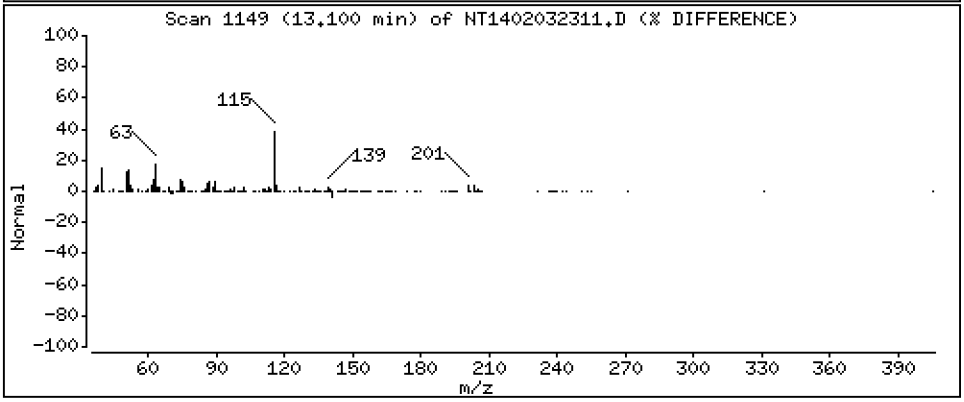












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

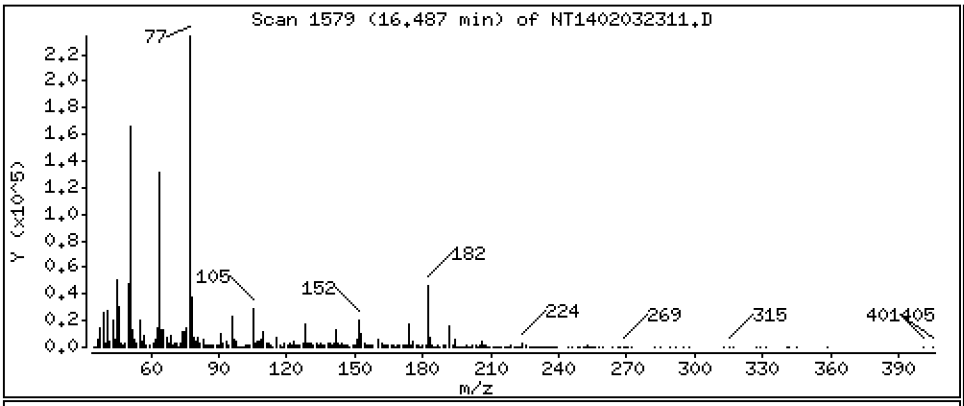
Operator: DSD

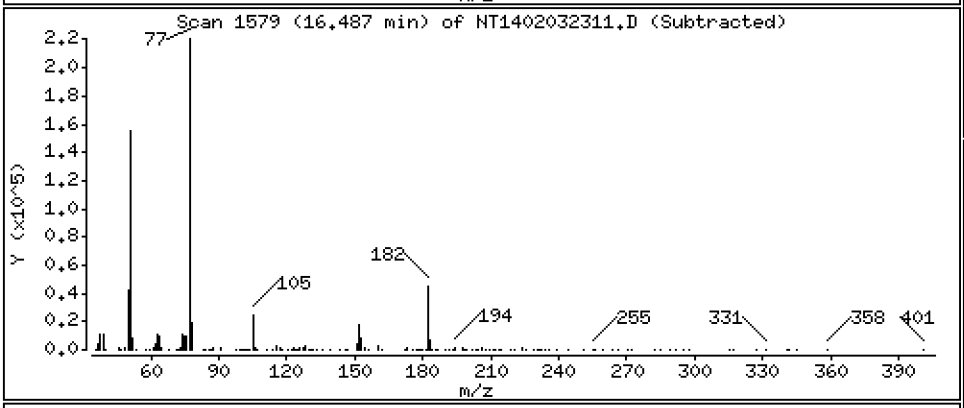
Column phase: ZB-5msi

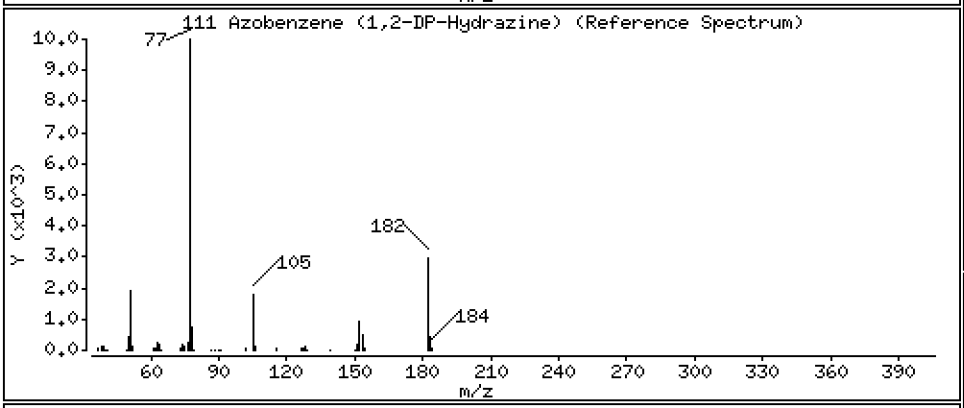
Column diameter: 0.25

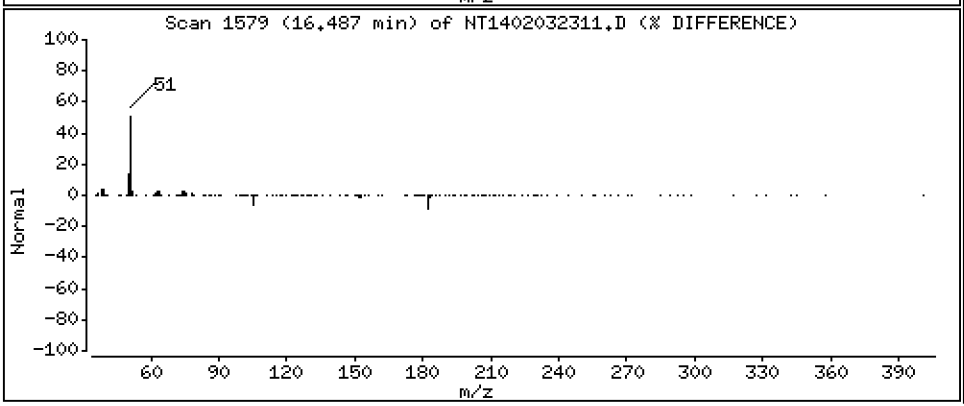
111 Azobenzene (1,2-DP-Hydrazine)

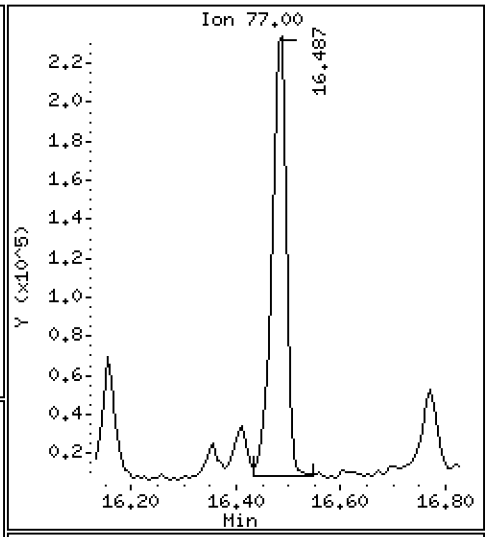
Concentration: 3.536 ug/mL

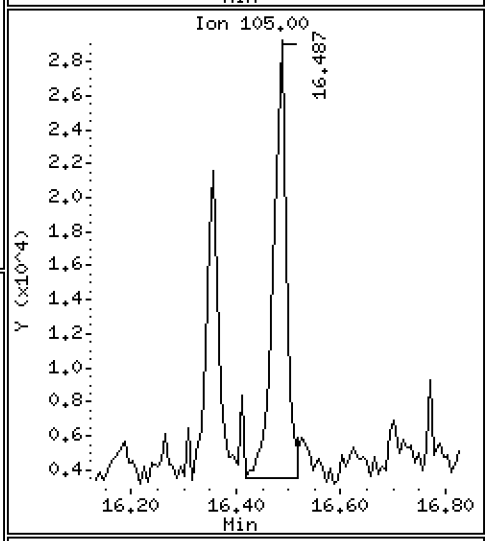


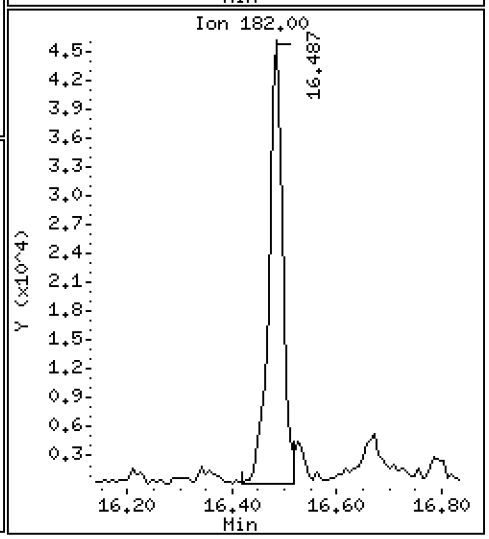












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

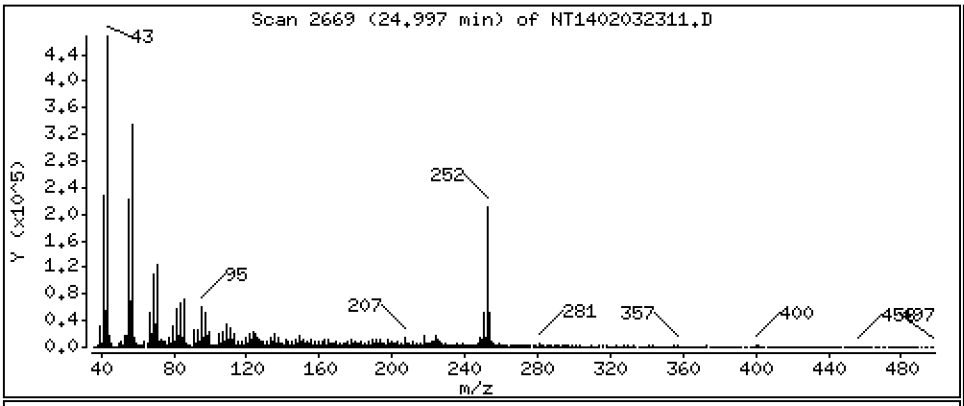
Operator: DSD

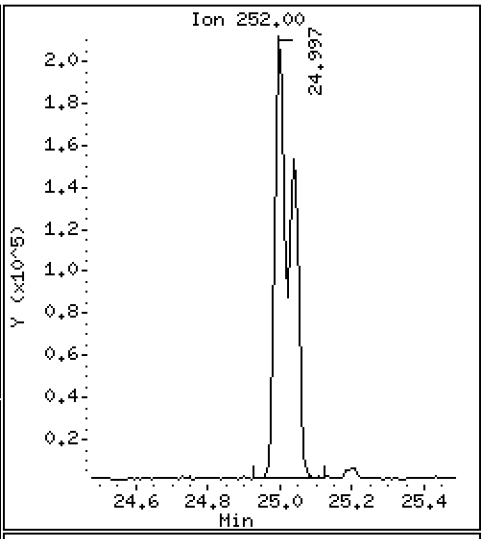
Column phase: ZB-5msi

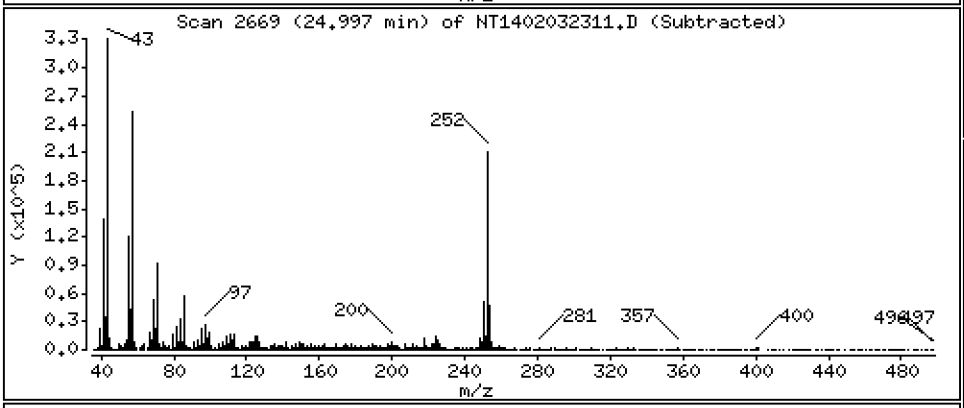
Column diameter: 0.25

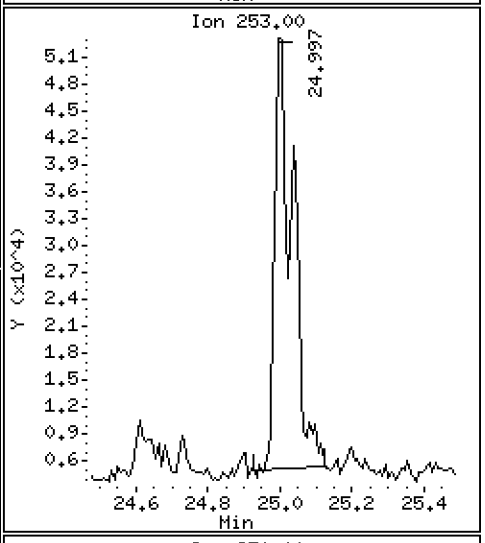
187 Total Benzofluoranthenes

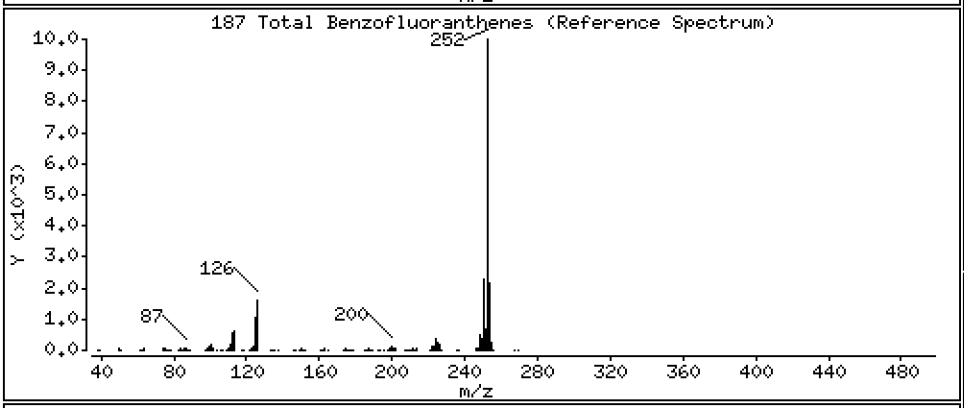
Concentration: 14.89 ug/mL

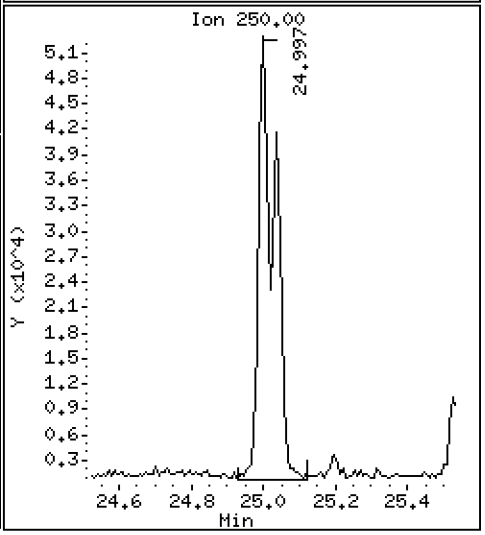


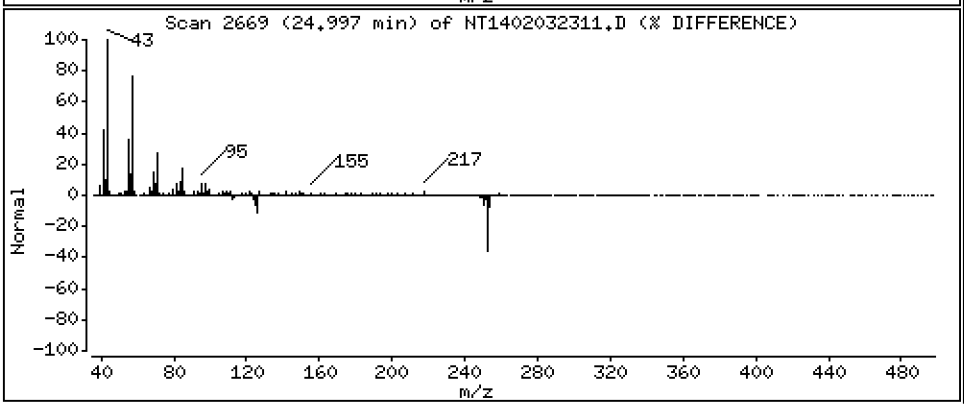












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Date : 03-FEB-2023 19:09

Client ID:

Instrument: nt14.i

Sample Info: BLA0064-MSD1

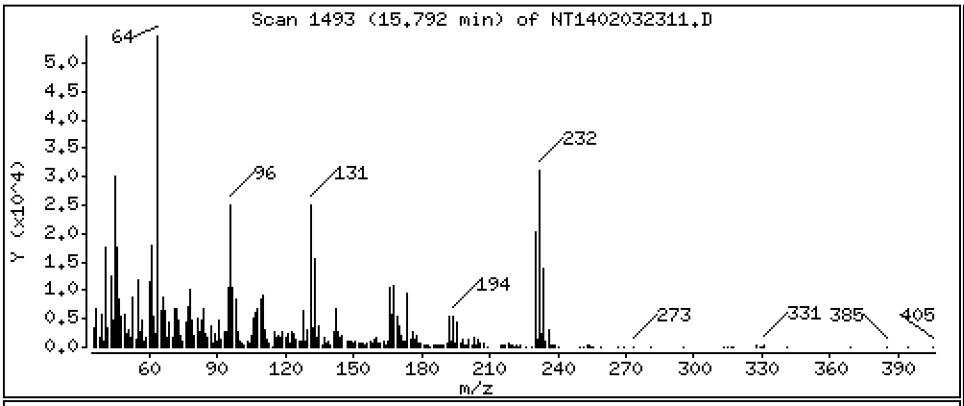
Operator: DSD

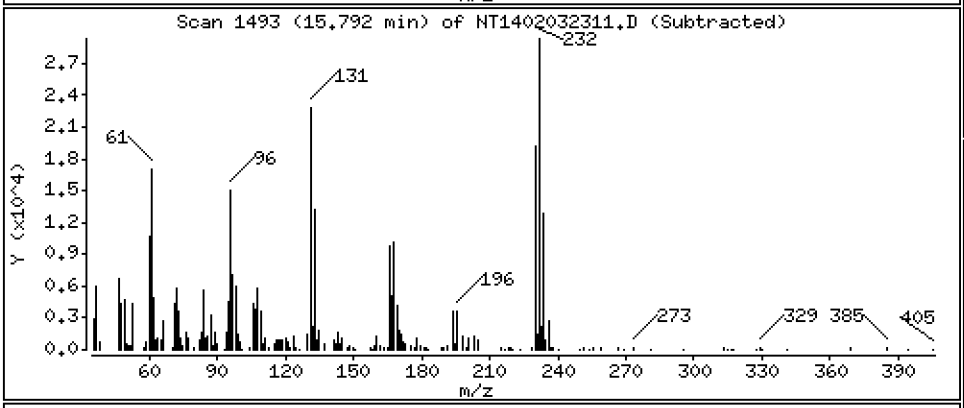
Column phase: ZB-5msi

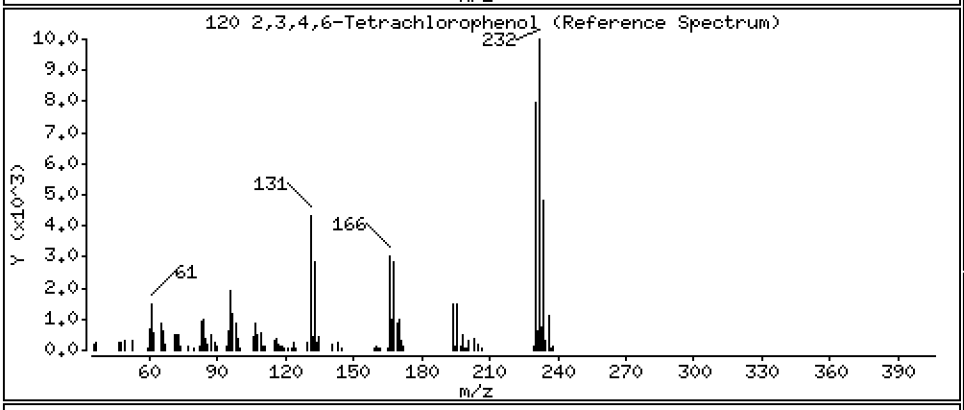
Column diameter: 0.25

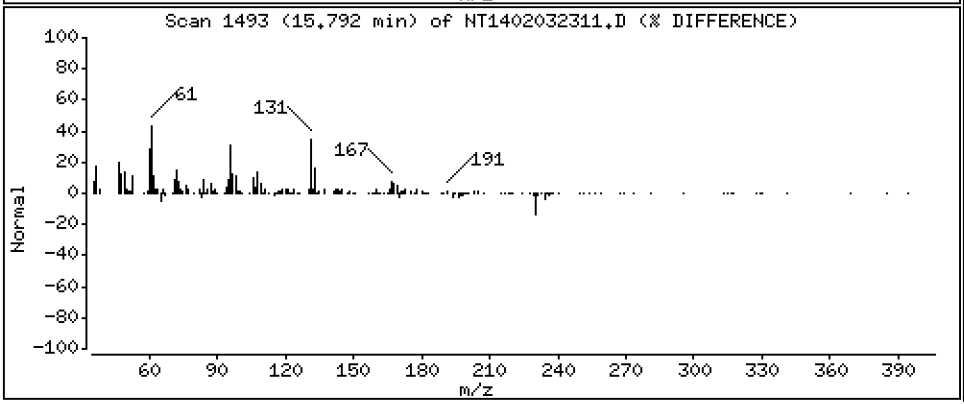
120 2,3,4,6-Tetrachlorophenol

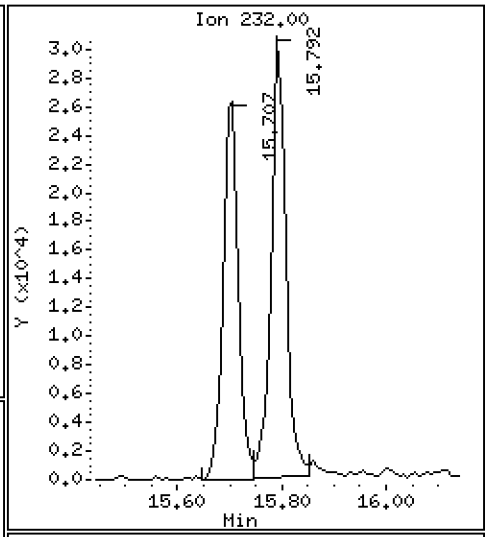
Concentration: 2.966 ug/mL

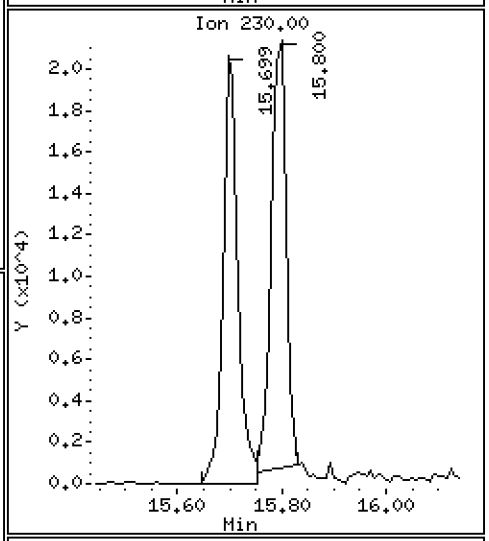


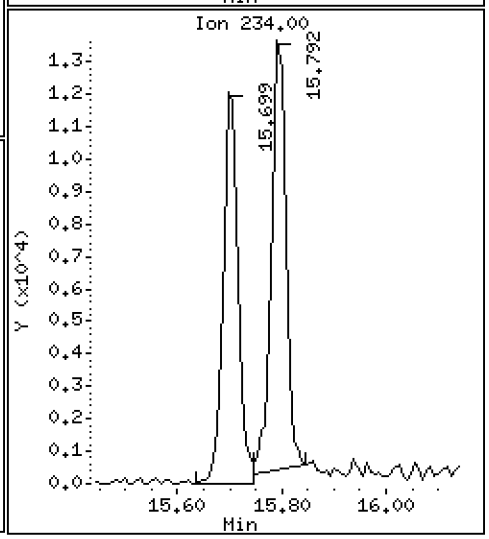












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: BLA0064-MSD1
Inj Date : 03-FEB-2023 19:09 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : BLA0064-MSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
$	1	2-Fluorophenol	112	6.720	6.720	(0.752)	64748	4.37821	4.378
$	2	Phenol-d5	99	8.312	8.312	(0.930)	98600	5.07441	5.074
	3	Phenol	94	8.336	8.336	(0.933)	73463	3.08235	3.082
$	5	2-Chlorophenol-d4	132	8.575	8.583	(0.959)	102490	5.45338	5.453
	4	Bis(2-Chloroethyl)ether	93	8.482	8.490	(0.949)	55794	4.07023	4.070
	6	2-Chlorophenol	128	8.606	8.606	(0.963)	64453	3.25699	3.257
	7	1,3-Dichlorobenzene	146	8.876	8.884	(0.993)	75979	3.43836	3.438
*	8	1,4-Dichlorobenzene-d4	152	8.939	8.946	(1.000)	55061	4.00000	
	9	1,4-Dichlorobenzene	146	8.970	8.977	(1.003)	79505	3.56086	3.561
$	10	1,2-Dichlorobenzene-d4	152	9.296	9.303	(1.040)	45029	3.37589	3.376
	12	1,2-Dichlorobenzene	146	9.327	9.334	(1.043)	74112	3.37582	3.376
	11	Benzyl alcohol	108	9.218	9.218	(1.031)	39647	3.37414	3.374
	14	2,2'-oxybis(1-Chloropropane)	121	9.521	9.521	(1.065)	26411	4.29636	4.296
	13	2-Methylphenol	108	9.451	9.451	(1.057)	54960	3.00324	3.003
	17	Hexachloroethane	117	9.924	9.924	(1.110)	45221	3.35740	3.357
	16	N-Nitroso-di-n-propylamine	70	9.777	9.777	(1.094)	60303	3.77633	3.776
	15	4-Methylphenol	108	9.730	9.722	(1.089)	82285	3.98373	3.984
$	18	Nitrobenzene-d5	82	10.033	10.041	(0.877)	119096	3.71837	3.718
	19	Nitrobenzene	77	10.072	10.072	(0.881)	112108	3.59149	3.591
	20	Isophorone	82	10.522	10.530	(0.920)	177808	5.03652	5.037
	21	2-Nitrophenol	139	10.708	10.708	(0.936)	45791	3.82446	3.824
	22	2,4-Dimethylphenol	107	10.770	10.770	(0.942)	385824	12.2395	12.24
	23	Bis(2-Chloroethoxy)methane	93	10.956	10.964	(0.958)	75106	4.21134	4.211
	24	Benzoic acid	105	10.956	10.972	(0.958)	96518	5.11126	5.111
	25	2,4-Dichlorophenol	162	11.165	11.165	(0.976)	271428	13.2461	13.25
	26	1,2,4-Trichlorobenzene	180	11.351	11.351	(0.993)	86033	3.89775	3.898
*	27	Naphthalene-d8	136	11.436	11.436	(1.000)	223857	4.00000	
	28	Naphthalene	128	11.475	11.482	(1.003)	239829	4.25801	4.258
	29	4-Chloroaniline	127	11.637	11.614	(1.018)	42112	1.78910	1.789(M)
	30	Hexachlorobutadiene	225	11.845	11.845	(1.036)	81661	4.68597	4.686
	31	4-Chloro-3-methylphenol	107	12.581	12.581	(1.100)	361076	13.0175	13.02
	32	2-Methylnaphthalene	142	12.875	12.882	(1.126)	188079	4.09604	4.096
	33	Hexachlorocyclopentadiene	237	13.347	13.347	(0.886)	41658	2.02955	2.030

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.502	13.502	(0.897)	240681	12.5042	12.50
35	2,4,5-Trichlorophenol	196	13.579	13.579	(0.902)	262753	12.3077	12.31
$ 36	2-Fluorobiphenyl	172	13.664	13.664	(0.907)	204449	3.87278	3.873
37	2-Chloronaphthalene	162	13.873	13.873	(0.921)	170200	3.87510	3.875
38	2-Nitroaniline	65	14.136	14.128	(0.939)	359028	13.9342	13.93
39	Dimethylphthalate	163	14.570	14.570	(0.968)	240867	4.23815	4.238
40	Acenaphthylene	152	14.748	14.748	(0.979)	248471	3.61396	3.614
41	2,6-Dinitrotoluene	165	14.701	14.701	(0.976)	188263	14.4319	14.43
* 42	Acenaphthene-d10	164	15.057	15.057	(1.000)	148336	4.00000	
43	3-Nitroaniline	138	14.988	14.988	(0.995)	55004	4.36738	4.367(M)
44	Acenaphthene	153	15.127	15.127	(1.005)	194910	4.19114	4.191
45	2,4-Dinitrophenol	184	15.204	15.204	(1.010)	79	0.00620	0.006198(M)
46	Dibenzofuran	168	15.451	15.451	(1.026)	274015	4.06607	4.066
47	4-Nitrophenol	109	15.328	15.320	(1.018)	276230	10.4157	10.42
48	2,4-Dinitrotoluene	165	15.513	15.513	(1.030)	274643	15.1695	15.17
50	Diethylphthalate	149	16.023	16.031	(1.064)	367423	4.44893	4.449
49	Fluorene	166	16.163	16.163	(1.073)	342407	3.95765	3.958
51	4-Chlorophenyl-phenylether	204	16.163	16.163	(1.073)	179947	3.78013	3.780
52	4-Nitroaniline	138	16.255	16.255	(1.080)	88823	5.93923	5.939
53	4,6-Dinitro-2-methylphenol	198	16.355	16.355	(0.904)	64973	3.64922	3.649
54	N-Nitrosodiphenylamine	169	16.409	16.409	(0.907)	191897	3.77367	3.774
$ 55	2,4,6-Tribromophenol	330	16.702	16.702	(1.109)	76489	6.21664	6.217
56	4-Bromophenyl-phenylether	248	17.165	17.157	(0.948)	94277	3.97742	3.977
57	Hexachlorobenzene	284	17.482	17.474	(0.966)	101534	3.75363	3.754
58	Pentachlorophenol	266	17.845	17.838	(0.986)	139501	9.06513	9.065
* 59	Phenanthrene-d10	188	18.101	18.093	(1.000)	300515	4.00000	
60	Phenanthrene	178	18.147	18.147	(1.003)	413929	5.10492	5.105
61	Anthracene	178	18.240	18.232	(1.008)	311800	4.02434	4.024
62	Carbazole	167	18.573	18.565	(1.026)	319241	4.48722	4.487
63	Di-n-butylphthalate	149	19.393	19.377	(1.071)	989244	8.96838	8.968
64	Fluoranthene	202	20.584	20.538	(0.889)	416674	8.06512	8.065
65	Pyrene	202	20.994	20.963	(0.906)	624159	11.4902	11.49
$ 66	Terphenyl-d14	244	21.265	21.250	(0.918)	187313	4.59069	4.591
67	Butylbenzylphthalate	149	22.179	22.179	(0.958)	113675	4.27450	4.275
68	Benzo(a)anthracene	228	23.139	23.123	(0.999)	215233	4.75666	4.757
* 69	Chrysene-d12	240	23.162	23.154	(1.000)	124060	4.00000	
70	3,3'-Dichlorobenzidine	252	23.170	23.085	(1.000)	18517	0.93138	0.9314(M)
71	Chrysene	228	23.209	23.201	(1.002)	257864	5.64367	5.644
72	bis(2-Ethylhexyl)phthalate	149	23.209	23.201	(0.959)	305872	7.98804	7.988
* 134	Di-n-octylphthalate-d4	153	24.192	24.184	(1.000)	215414	4.00000	
73	Di-n-octylphthalate	149	24.200	24.192	(1.000)	225807	4.15163	4.152
74	Benzo(b)fluoranthene	252	24.997	24.981	(0.971)	402162	8.87282	8.873
75	Benzo(k)fluoranthene	252	25.036	25.020	(0.972)	294787	6.35263	6.353
76	Benzo(a)pyrene	252	25.632	25.616	(0.995)	244956	6.32516	6.325
* 77	Perylene-d12	264	25.748	25.725	(1.000)	128985	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.336	28.305	(1.101)	243329	4.97329	4.973
79	Dibenzo(a,h)anthracene	278	28.344	28.305	(1.101)	170419	4.04461	4.045
80	Benzo(g,h,i)perylene	276	29.097	29.058	(1.130)	168664	4.65497	4.655
90	N-Nitrosodimethylamine	74	4.527	4.535	(0.506)	41154	4.60995	4.610
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.558	4.550	(0.510)	14635	0.56858	0.5686
105	1-methylnaphthalene	142	13.099	13.099	(1.145)	173598	3.89313	3.893
111	Azobenzene (1,2-DP-Hydrazine)	77	16.486	16.479	(1.095)	420433	3.53631	3.536

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.997	24.981	(0.971)	656874	14.8866	14.89
120 2,3,4,6-Tetrachlorophenol	232	15.791	15.791	(1.049)	57381	2.96589	2.966

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032311.D
Lab Smp Id: BLA0064-MSD1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	55061	-15.22
27 Naphthalene-d8	262858	131429	525716	223857	-14.84
42 Acenaphthene-d10	167543	83772	335086	148336	-11.46
59 Phenanthrene-d10	341039	170520	682078	300515	-11.88
69 Chrysene-d12	222731	111366	445462	124060	-44.30
134 Di-n-octylphthala	333425	166713	666850	215414	-35.39
77 Perylene-d12	152721	76361	305442	128985	-15.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.09
27 Naphthalene-d8	11.44	10.94	11.94	11.44	0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.10	0.04
69 Chrysene-d12	23.15	22.65	23.65	23.16	0.03
134 Di-n-octylphthala	24.18	23.68	24.68	24.19	0.03
77 Perylene-d12	25.73	25.23	26.23	25.75	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032311.D

Lab ID: BLA0064-MSD1
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 19:09

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

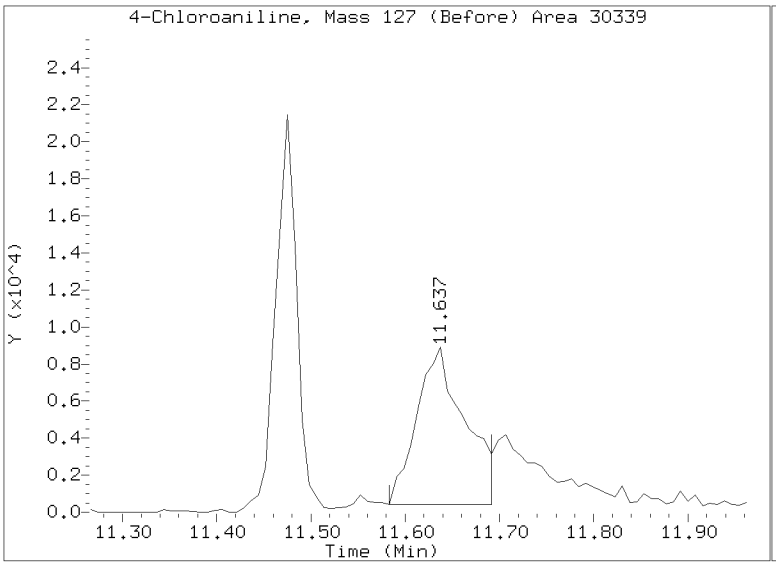
RRT check based on Ccal File: NT1402032303.D

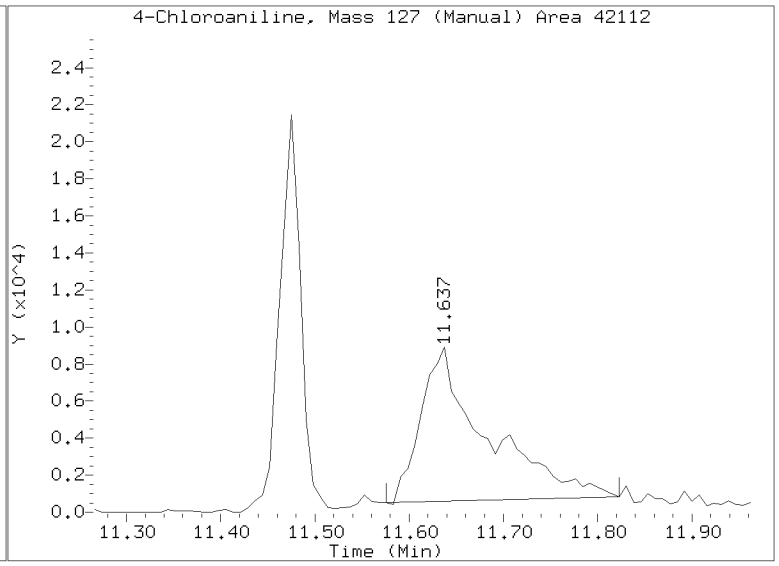
On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

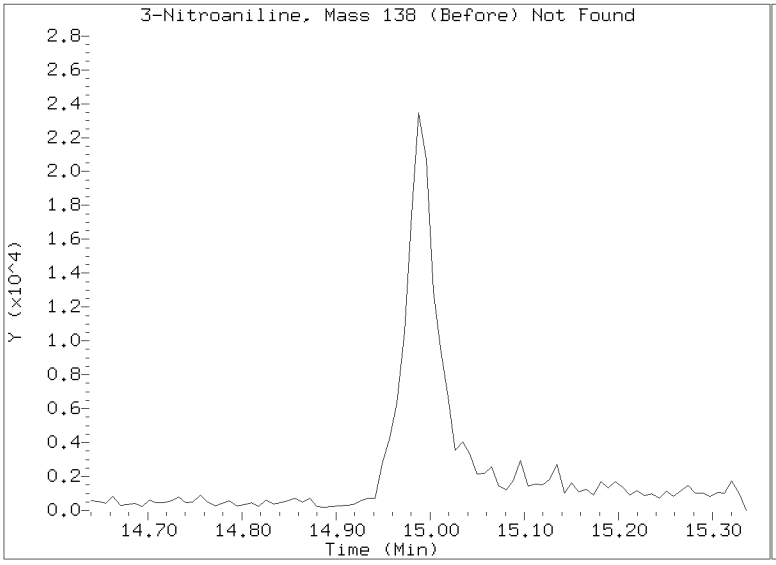
* Only compounds listed in the work order have been verified by the analyst *

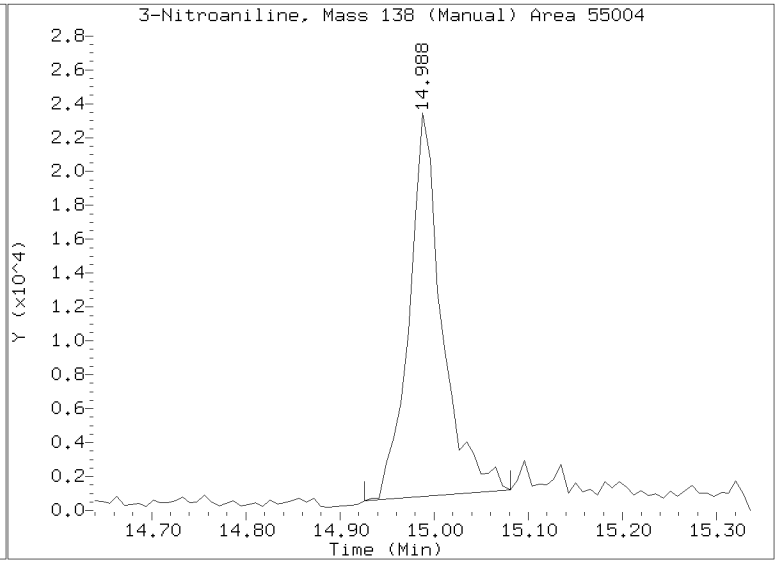
Quant Ion Manual Peak Adjustment Report

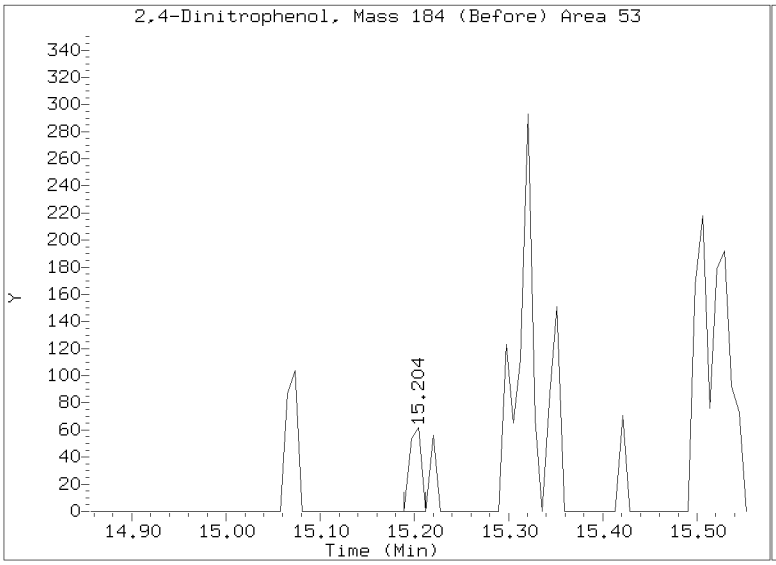
Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032311.D
Injection Date: 03-FEB-2023 19:09
Lab ID:BLA0064-MSD1 Client ID:
Report Date: 02/04/2023 10:28

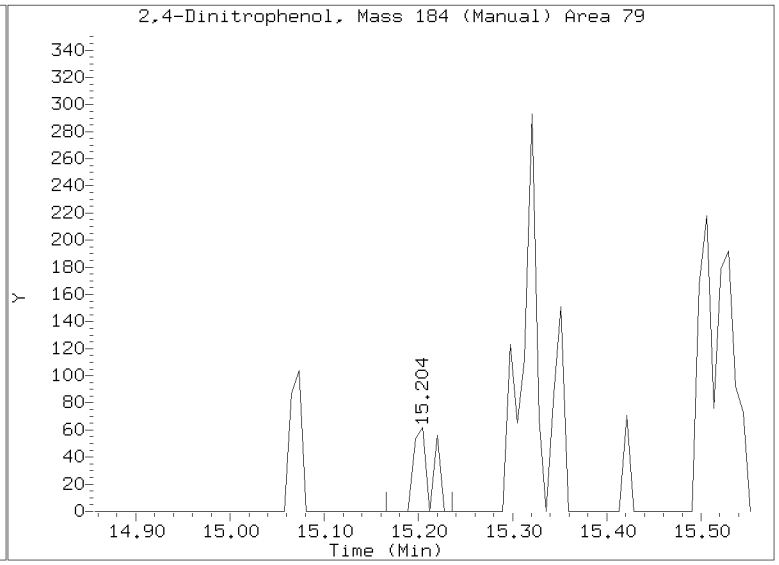






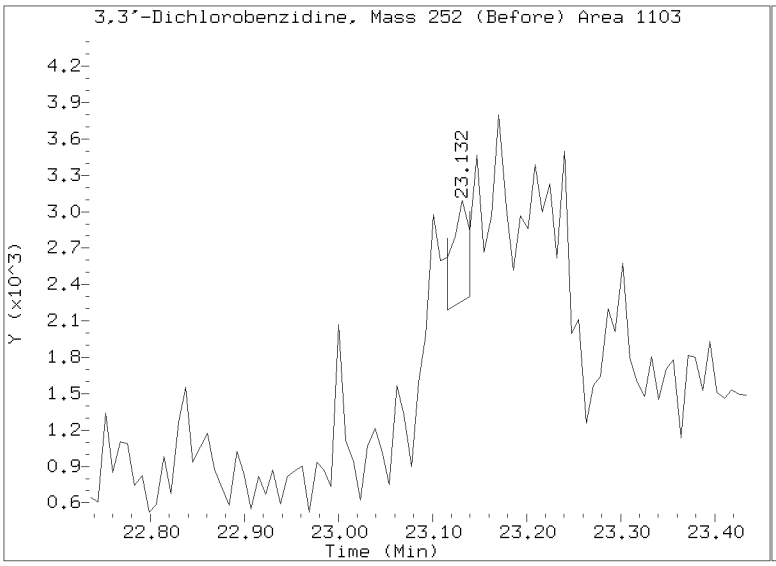


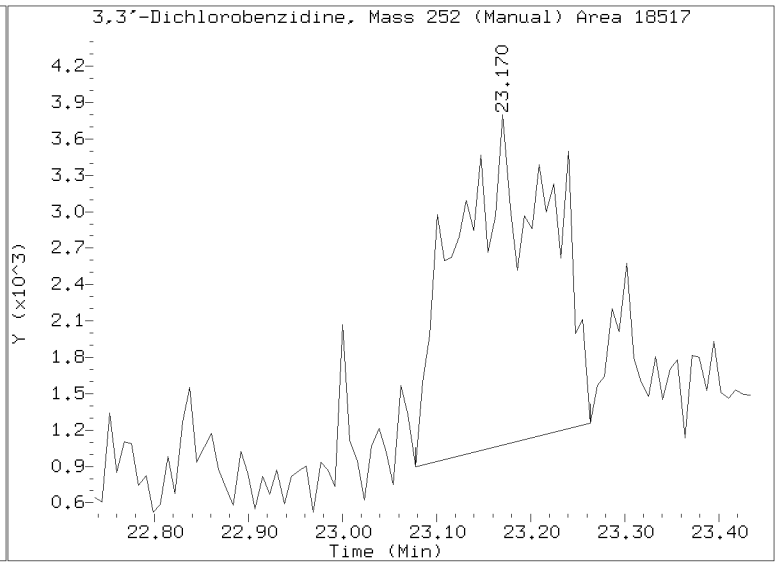




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032311.D
Injection Date: 03-FEB-2023 19:09
Lab ID:BLA0064-MSD1 Client ID:
Report Date: 02/04/2023 10:28





Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

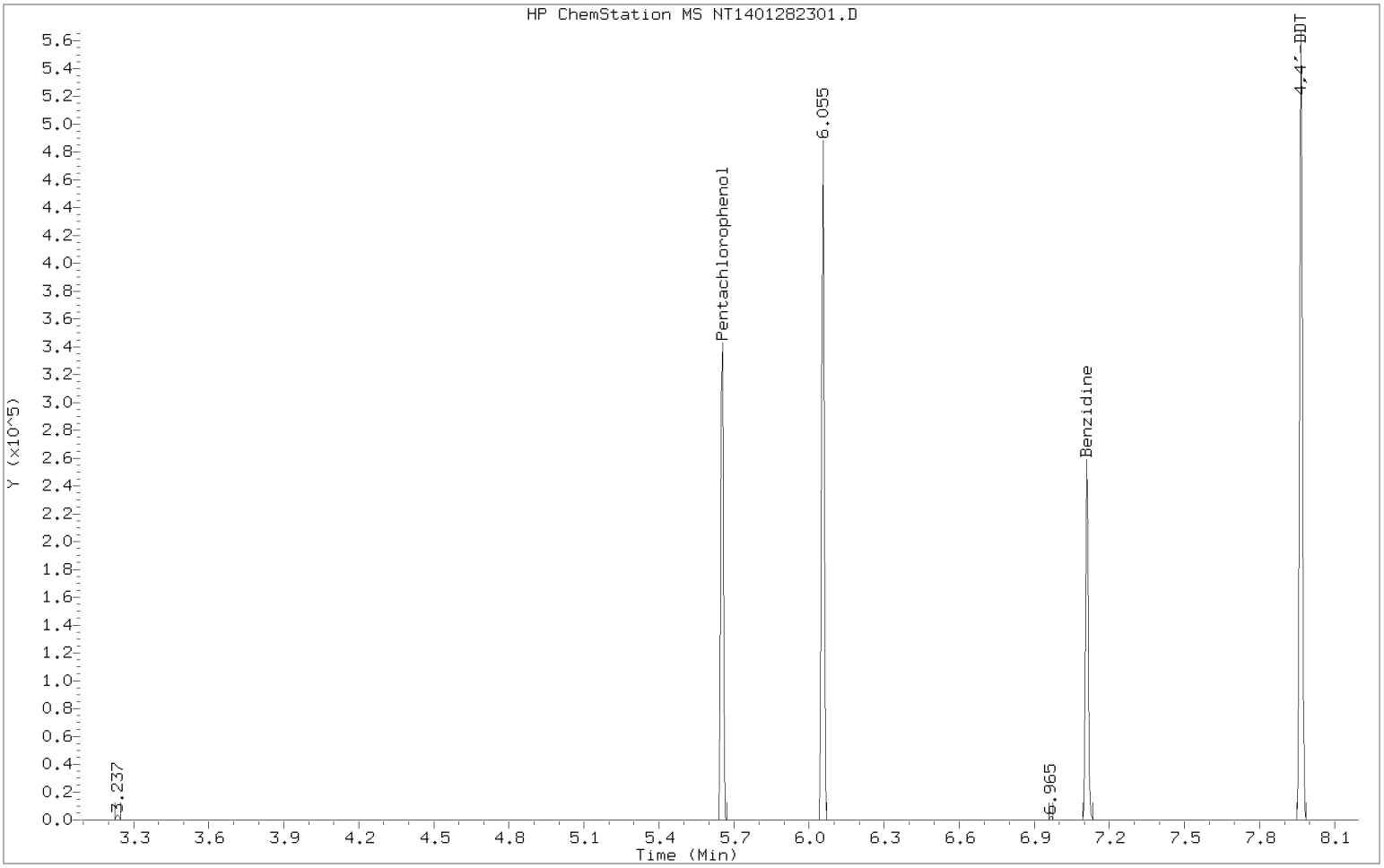
Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Lab File ID:	NT1401282301.D	Injection Date:	01/28/23
Instrument ID:	NT14	Injection Time:	15:52
Sequence:	SLA0338	Lab Sample ID:	SLA0338-TUN1

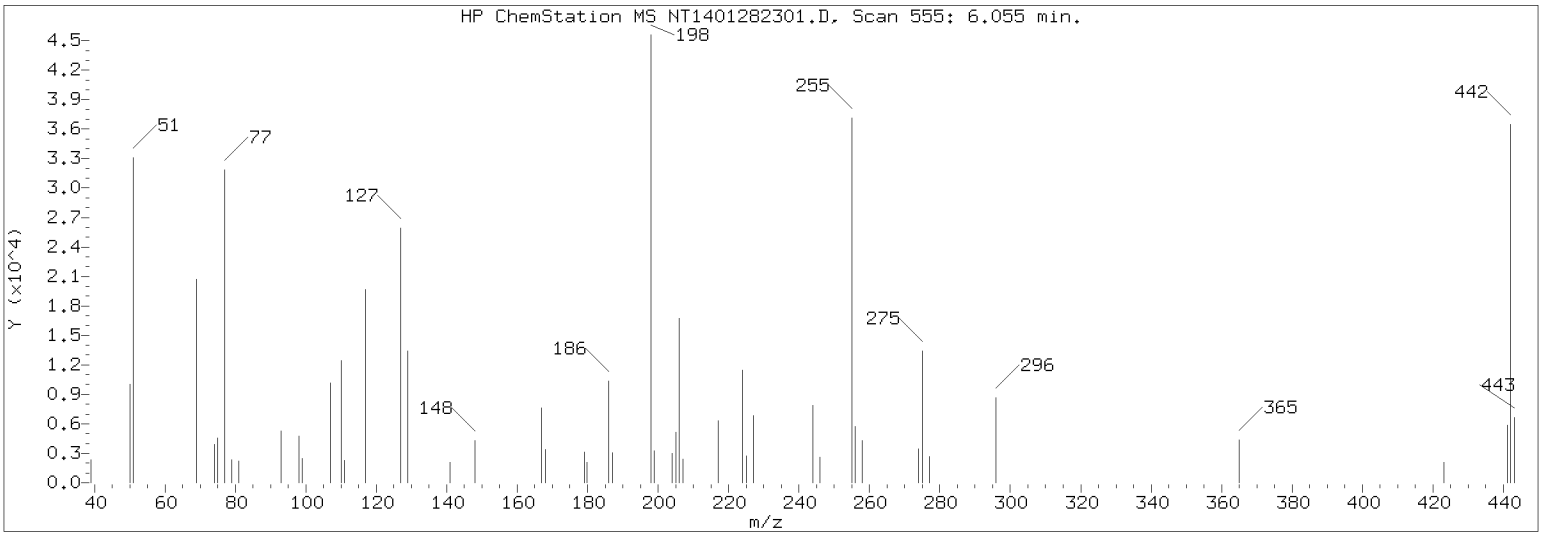
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	45.5	PASS
70	Less than 2% of 69	0	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.2	PASS
365	1 - 100% of 198	9.56	PASS
441	Less than 150% of 443	88.2	PASS
442	1 - 200% of 198	80	PASS
443	15 - 24% of 442	18.1	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of 4,4'-DDT		
4,4'-DDT	Base peak, 100% relative abundance		

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SLA0338-TUN1	NT1401282301.D	01/28/2023	15:52
Cal Standard	SLA0338-CAL7	NT1401282302.D	01/28/2023	16:05
Cal Standard	SLA0338-CAL6	NT1401282303.D	01/28/2023	16:41
Cal Standard	SLA0338-CAL5	NT1401282304.D	01/28/2023	17:17
Cal Standard	SLA0338-CAL4	NT1401282305.D	01/28/2023	17:53
Cal Standard	SLA0338-CAL3	NT1401282306.D	01/28/2023	18:29
Cal Standard	SLA0338-CAL2	NT1401282307.D	01/28/2023	19:05
Cal Standard	SLA0338-CAL1	NT1401282308.D	01/28/2023	19:41
Secondary Cal Check	SLA0338-SCV1	NT1401282311.D	01/28/2023	21:28
Initial Cal Blank	SLA0338-ICB1	NT1401282312.D	01/28/2023	22:04

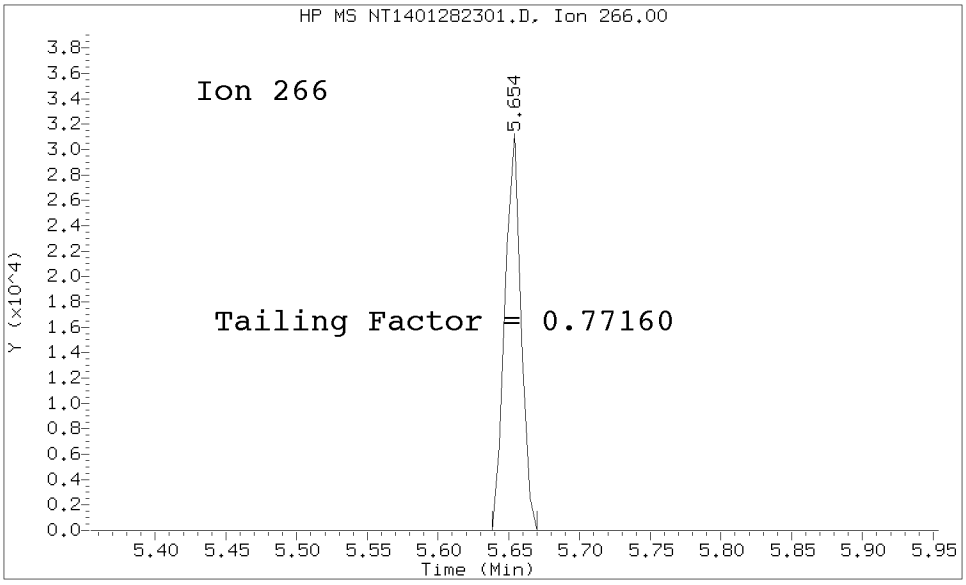
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230128.b/NT1401282301.D/NT1401282301.D
Method Used: \20230128.b\DFTPP8270E.m Inst: nt14
Injection Date: 28-JAN-2023 15:52 Operator: VTS
Sample Info: SLA0338-TUN1 SLA0338-TUN1
Report Date: 01/31/2023 13:25



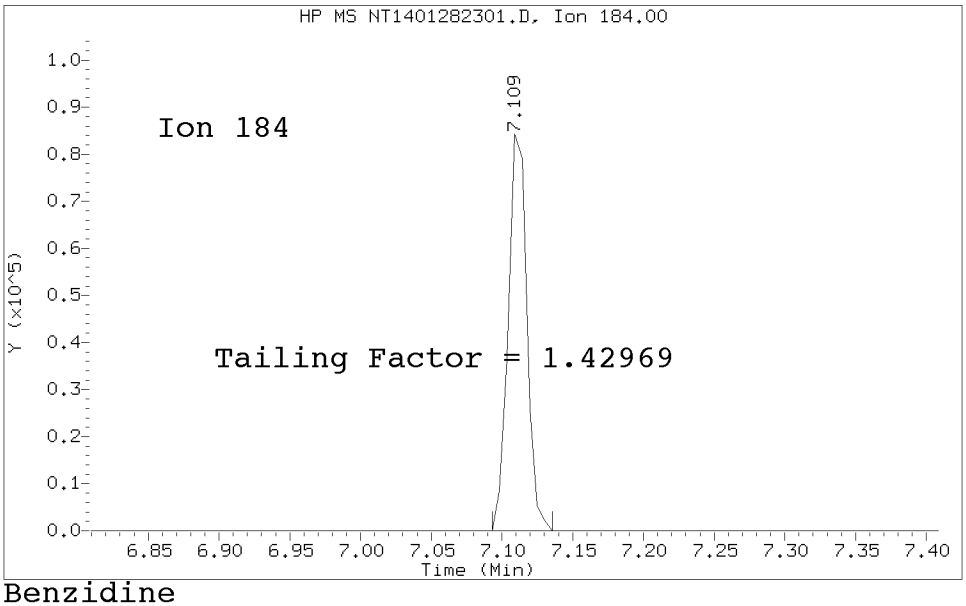


Datafile Analyzed: /20230128.b/NT1401282301.D/NT1401282301.D
Method Used: \20230128.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 28-JAN-2023 15:52 Operator: JZ
Sample Info: SEQ-TUN
Report Date: 01/31/2023 13:25



Pentachlorophenol
==========
Exp. RT = 5.654
Found RT = 5.654

Tail Factor = 0.772 Maximum Allowed = 2.0



Benzidine
==========
Exp. RT = 7.109
Found RT = 7.109

Tail Factor = 1.430 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.7716049	2.000	PASS
Benzidine	1.4296875	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	65292			N/A
4,4-DDE	0	0.0	20.0	PASS
4,4-DDD	0	0.0	20.0	PASS
4,4-DDD + DDE	0	0.0	20.0	PASS

Tuning Sample, nt14.i/20230128.b/NT1401282301.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.49
70	Less than 2.00% of mass 69	0.00 (0.00)
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.20
365	1.00 - 100.00% of mass 198	9.56
441	Less than 150.00% of mass 443	12.81 (88.23)
442	Less than 200.00% of mass 198	80.04
443	15.00 - 24.00% of mass 442	14.52 (18.14)

Data File: NT1401282301.D
Spectrum: HP ChemStation MS NT1401282301.D, Scan 555: 6.055 min. (S
Location of Maximum: 198.00
Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	2323	110.00	12464	198.00	45600	256.00	5750
50.00	10062	111.00	2252	198.90	3283	258.00	4312
51.00	33096	117.00	19704	204.00	3009	274.00	3445
68.90	20744	127.00	25912	205.00	5121	275.00	13444
74.00	3924	129.00	13445	206.00	16728	277.00	2665
75.00	4547	140.90	2086	207.00	2402	296.00	8684
77.00	31880	148.00	4328	217.00	6333	365.00	4360
79.00	2317	167.00	7601	224.00	11469	423.10	2066
80.90	2245	168.00	3375	225.00	2739	441.10	5841
92.90	5291	179.00	3156	227.00	6820	442.10	36496
98.00	4750	179.90	2099	244.00	7912	443.10	6620
98.90	2502	186.00	10327	246.00	2607		
106.90	10151	187.00	3041	255.00	37160		

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00072	Instrument:	NT14
Calibration Date:	01/28/2023	Column (1):	ZB-5MS

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Phenol	0.2	1.640463	0.5	1.756226	1	1.848842	2.5	1.560516	5	1.790471	10	1.629771
bis(2-chloroethyl) ether	0.2	1.018446	0.5	1.003989	1	1.125021	2.5	0.9191552	5	0.9829476	10	0.9252268
2-Chlorophenol	0.2	1.477362	0.5	1.33526	1	1.523586	2.5	1.306081	5	1.480543	10	1.346124
1,3-Dichlorobenzene	0.2	1.568515	0.5	1.582488	1	1.602948	2.5	1.502843	5	1.646845	10	1.553597
1,4-Dichlorobenzene	0.2	1.708971	0.5	1.618291	1	1.60246	2.5	1.467487	5	1.659028	10	1.513895
1,2-Dichlorobenzene	0.2	1.893569	0.5	1.350209	1	1.576787	2.5	1.436303	5	1.643076	10	1.474097
Benzyl Alcohol	0.2	0.7919969	0.5	0.8841431	1	0.8712204	2.5	0.7910191	5	0.874723	10	0.8078386
2,2'-Oxybis(1-chloropropane)	0.2	0.4729623	0.5	0.4208411	1	0.5059424	2.5	0.3963373	5	0.4668828	10	0.3980264
2-Methylphenol	0.2	1.273845	0.5	1.287774	1	1.404105	2.5	1.179237	5	1.417294	10	1.271264
Hexachloroethane	0.2	0.999527	0.5	0.9105242	1	1.011982	2.5	0.9299957	5	0.9965624	10	0.9418988
N-Nitroso-di-n-Propylamine	0.2	1.069181	0.5	1.179988	1	1.274081	2.5	1.100859	5	1.189627	10	1.096228
4-Methylphenol	0.2	1.479942	0.5	1.484501	1	1.550724	2.5	1.30794	5	1.562518	10	1.442384
Nitrobenzene	0.2	0.5482901	0.5	0.5297426	1	0.5330786	2.5	0.5532787	5	0.575054	10	0.572132
Isophorone	0.2	0.6455513	0.5	0.5822938	1	0.5517161	2.5	0.6087734	5	0.6962991	10	0.6113365
2-Nitrophenol	0.2	0.1811309	0.5	0.1550343	1	0.1927279	2.5	0.1813602	5	0.2220709	10	0.2233642
2,4-Dimethylphenol	0.4	0.5650104	1	0.5290542	2	0.522869	5	0.5116454	10	0.6223976	20	0.5611759
Bis(2-Chloroethoxy)methane	0.2	0.3399934	0.5	0.3049647	1	0.2832192	2.5	0.3034362	5	0.3382626	10	0.3275805
2,4-Dichlorophenol	0.4	0.3263723	1	0.2993066	2	0.3403155	5	0.3240888	10	0.3813825	20	0.377232
1,2,4-Trichlorobenzene	0.2	0.4128437	0.5	0.3712832	1	0.3659977	2.5	0.3698643	5	0.3876438	10	0.3984697
Naphthalene	0.2	1.025413	0.5	0.9738252	1	0.9355308	2.5	0.9341315	5	1.006867	10	1.011066
Benzoic acid	0.8	7.883822E-02	2	0.1377076	4	0.1750047	10	0.2929076	20	0.3570999	40	0.3648434
4-Chloroaniline			1	0.3701583	2	0.3778953	5	0.4027686	10	0.4403814	20	0.4665455
Hexachlorobutadiene	0.2	0.312598	0.5	0.2799819	1	0.2956208	2.5	0.2921349	5	0.3116889	10	0.3226315
4-Chloro-3-Methylphenol	0.4	0.4113515	1	0.4163966	2	0.3952082	5	0.4372642	10	0.5037128	20	0.516583
2-Methylnaphthalene	0.2	0.7955372	0.5	0.759591	1	0.7365201	2.5	0.7690824	5	0.8107166	10	0.8568501
Hexachlorocyclopentadiene	0.4	0.4664942	1	0.4697463	2	0.4553186	5	0.5234221	10	0.6047746	20	0.6161069
2,4,6-Trichlorophenol	0.4	0.3929951	1	0.3956609	2	0.4142076	5	0.4470727	10	0.5519891	20	0.5386534
2,4,5-Trichlorophenol	0.4	0.4329946	1	0.4599654	2	0.4789331	5	0.5139764	10	0.6058256	20	0.6006092

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00072	Instrument:	NT14
Calibration Date:	01/28/2023	Column (1):	ZB-5MS

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
2-Chloronaphthalene	0.2	1.20711	0.5	1.106854	1	1.063547	2.5	1.11625	5	1.193324	10	1.200367
2-Nitroaniline			1	0.5976926	2	0.6020127	5	0.706573	10	0.7313915	20	0.7463656
Acenaphthylene	0.2	1.947851	0.5	1.714327	1	1.693304	2.5	1.752859	5	1.863063	10	1.845777
Dimethylphthalate	0.2	1.473357	0.5	1.401976	1	1.481203	2.5	1.483959	5	1.611661	10	1.567797
2,6-Dinitrotoluene			1	0.2817364	2	0.357568	5	0.3158429	10	0.3621602	20	0.3615892
Acenaphthene	0.2	1.251234	0.5	1.187804	1	1.187581	2.5	1.177818	5	1.246119	10	1.255497
3-Nitroaniline			1	0.2988065	2	0.3329599	5	0.3243691	10	0.343348	20	0.3409454
2,4-Dinitrophenol	0.8	9.684254E-02	2	0.1727687	4	0.2081657	10	0.2916961	20	0.3758025	40	0.3988802
Dibenzofuran	0.2	1.842477	0.5	1.630832	1	1.676275	2.5	1.694196	5	1.836617	10	1.867783
4-Nitrophenol	0.4	0.359308	1	0.5034094	2	0.5374042	5	0.6397196	10	0.7660557	20	0.729927
2,4-Dinitrotoluene			1	0.4102129	2	0.4469211	5	0.4696319	10	0.5061012	20	0.5123765
Fluorene	0.2	1.780103	0.5	2.155818	1	2.052236	2.5	2.187311	5	2.445493	10	2.516384
4-Chlorophenylphenyl ether	0.2	1.18936	0.5	1.232971	1	1.141677	2.5	1.147421	5	1.248311	10	1.334476
Diethyl phthalate	0.2	2.049349	0.5	2.071368	1	2.228526	2.5	2.150091	5	2.366985	10	2.261966
4-Nitroaniline			1	0.3763377	2	0.3711093	5	0.3785462	10	0.4191594	20	0.4221363
4,6-Dinitro-2-methylphenol	0.8	0.127571	2	0.1595831	4	0.1627077	10	0.2049128	20	0.25566	40	0.2680055
N-Nitrosodiphenylamine	0.2	0.7054619	0.5	0.6415245	1	0.648206	2.5	0.6244602	5	0.658791	10	0.6724507
4-Bromophenyl phenyl ether	0.2	0.2930861	0.5	0.2645654	1	0.3171955	2.5	0.2939145	5	0.3283749	10	0.3305802
Hexachlorobenzene	0.2	0.3383383	0.5	0.3376255	1	0.3258222	2.5	0.3341527	5	0.3618778	10	0.3821281
Pentachlorophenol	0.4	9.592954E-02	1	0.1335873	2	0.151324	5	0.1642333	10	0.2150588	20	0.2236572
Phenanthrene	0.2	1.085031	0.5	0.9747086	1	1.020845	2.5	0.9617291	5	1.107436	10	1.114264
Anthracene	0.2	0.9056182	0.5	0.9506143	1	0.9741096	2.5	0.9466335	5	1.080454	10	1.095195
Carbazole	0.2	0.8093696	0.5	0.91228	1	0.9319322	2.5	0.8691723	5	0.9823931	10	0.9832251
Di-n-Butylphthalate	0.2	1.293613	0.5	1.240162	1	1.341397	2.5	1.368481	5	1.581503	10	1.619119
Fluoranthene	0.2	1.387484	0.5	1.398412	1	1.496027	2.5	1.470226	5	1.641658	10	1.709907
Pyrene	0.2	1.479956	0.5	1.437087	1	1.470534	2.5	1.429317	5	1.611677	10	1.704505
Butylbenzylphthalate	0.2	0.6275571	0.5	0.6373653	1	0.8268592	2.5	0.788758	5	0.8745444	10	0.9253197
Benzo(a)anthracene	0.2	1.367982	0.5	1.330667	1	1.346752	2.5	1.327541	5	1.423796	10	1.52635

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00072	Instrument:	NT14
Calibration Date:	01/28/2023	Column (1):	ZB-5MS

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
3,3'-Dichlorobenzidine	0.6	0.4964605	1.5	0.4826643	3	0.5205742	7.5	0.5181192	15	0.5747274	30	0.7897488
Chrysene	0.2	1.186614	0.5	1.233708	1	1.328224	2.5	1.295973	5	1.484304	10	1.596131
bis(2-Ethylhexyl)phthalate	0.2	0.5974604	0.5	0.5705178	1	0.6339454	2.5	0.6158917	5	0.7176333	10	0.7251862
Di-n-Octylphthalate	0.2	1.065758	0.5	1.076028	1	1.005018	2.5	0.9407118	5	1.008352	10	0.9555921
Benzofluoranthenes, Total	0.4	1.317032	1	1.232536	2	1.269154	5	1.209016	10	1.370734	20	1.410636
Benzo(a)pyrene	0.2	1.119279	0.5	1.057538	1	1.189905	2.5	1.078281	5	1.237808	10	1.232967
Indeno(1,2,3-cd)pyrene	0.2	1.392296	0.5	1.333737	1	1.371331	2.5	1.433102	5	1.560253	10	1.604328
Dibenzo(a,h)anthracene	0.2	1.217971	0.5	1.184207	1	1.183214	2.5	1.188997	5	1.302033	10	1.368923
Benzo(g,h,i)perylene	0.2	1.089948	0.5	1.013148	1	1.159795	2.5	1.045717	5	1.13936	10	1.141202
1-Methylnaphthalene	0.2	0.7751054	0.5	0.7206393	1	0.7344805	2.5	0.7591854	5	0.7849152	10	0.845809
2-Fluorophenol	0.3	1.043192	0.75	1.012531	1.5	1.106572	3.75	0.9969062	7.5	1.149632	15	1.013815
Phenol-d5	0.3	1.472967	0.75	1.394429	1.5	1.452457	3.75	1.247856	7.5	1.448132	15	1.306823
2-Chlorophenol-d4	0.3	1.46647	0.75	1.312773	1.5	1.341696	3.75	1.204948	7.5	1.427797	15	1.287432
1,2-Dichlorobenzene-d4	0.2	0.9662764	0.5	1.048083	1	1.044196	2.5	0.8260354	5	0.9755296	10	0.89318
Nitrobenzene-d5	0.2	0.5588503	0.5	0.5188966	1	0.5420574	2.5	0.5395369	5	0.6422289	10	0.5919434
2-Fluorobiphenyl	0.2	1.507106	0.5	1.374303	1	1.329852	2.5	1.295427	5	1.498479	10	1.362808
2,4,6-Tribromophenol	0.3	0.3826619	0.75	0.3035865	1.5	0.2728781	3.75	0.3025168	7.5	0.3681877	15	0.3460601
p-Terphenyl-d14	0.2	1.25487	0.5	1.265558	1	1.224369	2.5	1.188703	5	1.410291	10	1.403362

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00072	Instrument:	NT14
Calibration Date:	01/28/2023	Column (1):	ZB-5MS

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Phenol	20	1.893641										
bis(2-chloroethyl) ether	20	0.9960101										
2-Chlorophenol	20	1.594358										
1,3-Dichlorobenzene	20	1.779897										
1,4-Dichlorobenzene	20	1.783985										
1,2-Dichlorobenzene	20	1.790036										
Benzyl Alcohol	20	0.9543869										
2,2'-Oxybis(1-chloropropane)	20	0.4650727										
2-Methylphenol	20	1.472639										
Hexachloroethane	20	1.058877										
N-Nitroso-di-n-Propylamine	20	1.210539										
4-Methylphenol	20	1.675748										
Nitrobenzene	20	0.5927791										
Isophorone	20	0.719815										
2-Nitrophenol	20	0.2396322										
2,4-Dimethylphenol	40	0.6307277										
Bis(2-Chloroethoxy)methane	20	0.3332477										
2,4-Dichlorophenol	40	0.4691106										
1,2,4-Trichlorobenzene	20	0.4547175										
Naphthalene	20	1.158184										
Benzoic acid	80	0.4027254										
4-Chloroaniline	40	0.5474146										
Hexachlorobutadiene	20	0.3650732										
4-Chloro-3-Methylphenol	40	0.6205134										
2-Methylnaphthalene	20	1.015031										
Hexachlorocyclopentadiene	40	0.7726718										
2,4,6-Trichlorophenol	40	0.7013367										
2,4,5-Trichlorophenol	40	0.7996039										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00072	Instrument:	NT14
Calibration Date:	01/28/2023	Column (1):	ZB-5MS

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2-Chloronaphthalene	20	1.403196										
2-Nitroaniline	40	0.784752										
Acenaphthylene	20	2.16069										
Dimethylphthalate	20	1.707902										
2,6-Dinitrotoluene	40	0.4317022										
Acenaphthene	20	1.472315										
3-Nitroaniline	40	0.3972605										
2,4-Dinitrophenol	80	0.5258414										
Dibenzofuran	20	2.17251										
4-Nitrophenol	40	0.811854										
2,4-Dinitrotoluene	40	0.584034										
Fluorene	20	3.180274										
4-Chlorophenylphenyl ether	20	1.691422										
Diethyl phthalate	20	2.460865										
4-Nitroaniline	40	0.4524033										
4,6-Dinitro-2-methylphenol	80	0.3332528										
N-Nitrosodiphenylamine	20	0.7871157										
4-Bromophenyl phenyl ether	20	0.3807768										
Hexachlorobenzene	20	0.4403563										
Pentachlorophenol	40	0.3011489										
Phenanthrene	20	1.290883										
Anthracene	20	1.266321										
Carbazole	20	1.140405										
Di-n-Butylphthalate	20	1.833075										
Fluoranthene	20	2.282646										
Pyrene	20	2.240006										
Butylbenzylphthalate	20	1.130169										
Benzo(a)anthracene	20	1.889424										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00072	Instrument:	NT14
Calibration Date:	01/28/2023	Column (1):	ZB-5MS

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
3,3'-Dichlorobenzidine	60	1.427556										
Chrysene	20	2.607116										
bis(2-Ethylhexyl)phthalate	20	0.9341098										
Di-n-Octylphthalate	20	1.018276										
Benzofluoranthenes, Total	40	1.769553										
Benzo(a)pyrene	20	1.491117										
Indeno(1,2,3-cd)pyrene	20	1.926036										
Dibenzo(a,h)anthracene	20	1.701269										
Benzo(g,h,i)perylene	20	1.276292										
1-Methylnaphthalene	20	0.9572856										
2-Fluorophenol	30	1.197791										
Phenol-d5	30	1.558446										
2-Chlorophenol-d4	30	1.516069										
1,2-Dichlorobenzene-d4	20	1.029632										
Nitrobenzene-d5	20	0.6126795										
2-Fluorobiphenyl	20	1.596937										
2,4,6-Tribromophenol	30	0.4280247										
p-Terphenyl-d14	20	1.880334										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00072	Instrument:	NT14
Calibration Date:	01/28/2023	Column (1):	ZB-5MS

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Phenol	1.731419	7.2			RSD (15)	
bis(2-chloroethyl) ether	0.9958279	6.9			RSD (15)	
2-Chlorophenol	1.437616	7.6			RSD (15)	
1,3-Dichlorobenzene	1.605305	5.5			RSD (15)	
1,4-Dichlorobenzene	1.622017	6.7			RSD (15)	
1,2-Dichlorobenzene	1.594868	12.3			RSD (15)	
Benzyl Alcohol	0.8536183	7.0			RSD (15)	
2,2'-Oxybis(1-chloropropane)	0.4465807	9.4			RSD (15)	
2-Methylphenol	1.329451	7.8			RSD (15)	
Hexachloroethane	0.978481	5.4			RSD (15)	
N-Nitroso-di-n-Propylamine	1.160072	6.4			RSD (15)	
4-Methylphenol	1.500537	7.6			RSD (15)	
Nitrobenzene	0.557765	4.2			RSD (15)	
Isophorone	0.6308265	9.6			RSD (15)	
2-Nitrophenol	0.1993315	15.0		0.9994	QCOD (0.99)	
2,4-Dimethylphenol	0.5632686	8.4			RSD (15)	
Bis(2-Chloroethoxy)methane	0.318672	6.8			RSD (15)	
2,4-Dichlorophenol	0.3596869	15.7		0.9996	QCOD (0.99)	
1,2,4-Trichlorobenzene	0.3944028	8.0			RSD (15)	
Naphthalene	1.006431	7.6			RSD (15)	
Benzoic acid	0.2584467	49.2		0.9985	QCOD (0.99)	
4-Chloroaniline	0.434194	15.3		0.9999	QCOD (0.99)	
Hexachlorobutadiene	0.3113899	8.9			RSD (15)	
4-Chloro-3-Methylphenol	0.4715757	17.1		0.9997	QCOD (0.99)	
2-Methylnaphthalene	0.8204755	11.5			RSD (15)	
Hexachlorocyclopentadiene	0.5583621	20.6		0.9996	QCOD (0.99)	
2,4,6-Trichlorophenol	0.4917022	23.0		0.9992	QCOD (0.99)	
2,4,5-Trichlorophenol	0.5559869	22.7		0.9995	QCOD (0.99)	
2-Chloronaphthalene	1.184378	9.4			RSD (15)	
2-Nitroaniline	0.6947979	11.2			RSD (15)	
Acenaphthylene	1.853982	8.8			RSD (15)	

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00072	Instrument:	NT14
Calibration Date:	01/28/2023	Column (1):	ZB-5MS

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Dimethylphthalate	1.532551	6.7			RSD (15)	
2,6-Dinitrotoluene	0.3517665	14.4			RSD (15)	
Acenaphthene	1.254053	8.1			RSD (15)	
3-Nitroaniline	0.3396149	9.6			RSD (15)	
2,4-Dinitrophenol	0.2957139	50.2		0.9986	QCOD (0.99)	
Dibenzofuran	1.817241	10.0			RSD (15)	
4-Nitrophenol	0.6210968	26.2		0.9991	QCOD (0.99)	
2,4-Dinitrotoluene	0.4882129	12.4			RSD (15)	
Fluorene	2.331088	19.2		0.9998	QCOD (0.99)	
4-Chlorophenylphenyl ether	1.283663	14.9			RSD (15)	
Diethyl phthalate	2.227021	6.8			RSD (15)	
4-Nitroaniline	0.403282	8.1			RSD (15)	
4,6-Dinitro-2-methylphenol	0.2159561	33.8		0.9991	QCOD (0.99)	
N-Nitrosodiphenylamine	0.6768586	8.1			RSD (15)	
4-Bromophenyl phenyl ether	0.3154991	11.7			RSD (15)	
Hexachlorobenzene	0.360043	11.2			RSD (15)	
Pentachlorophenol	0.1835627	37.2		0.9990	QCOD (0.99)	
Phenanthrene	1.079271	10.4			RSD (15)	
Anthracene	1.031278	12.2			RSD (15)	
Carbazole	0.9469682	11.1			RSD (15)	
Di-n-Butylphthalate	1.468193	14.6			RSD (15)	
Fluoranthene	1.626623	19.3		0.9999	QCOD (0.99)	
Pyrene	1.624726	17.8		0.9999	QCOD (0.99)	
Butylbenzylphthalate	0.8300818	20.9		0.9999	QCOD (0.99)	
Benzo(a)anthracene	1.45893	13.9			RSD (15)	
3,3'-Dichlorobenzidine	0.6871215	49.9		0.9964	QCOD (0.99)	
Chrysene	1.533153	32.3		0.9998	QCOD (0.99)	
bis(2-Ethylhexyl)phthalate	0.6849635	18.2		0.9997	QCOD (0.99)	
Di-n-Octylphthalate	1.009962	5.0			RSD (15)	
Benzofluoranthenes, Total	1.36838	14.0			RSD (15)	
Benzo(a)pyrene	1.200985	12.2			RSD (15)	

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00072	Instrument:	NT14
Calibration Date:	01/28/2023	Column (1):	ZB-5MS

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Indeno(1,2,3-cd)pyrene	1.517298	13.6			RSD (15)	
Dibenzo(a,h)anthracene	1.306659	14.4			RSD (15)	
Benzo(g,h,i)perylene	1.123637	7.7			RSD (15)	
1-Methylnaphthalene	0.7967743	10.2			RSD (15)	
2-Fluorophenol	1.074348	7.2			RSD (15)	
Phenol-d5	1.411587	7.5			RSD (15)	
2-Chlorophenol-d4	1.365312	8.0			RSD (15)	
1,2-Dichlorobenzene-d4	0.9689903	8.6			RSD (15)	
Nitrobenzene-d5	0.5723133	7.8			RSD (15)	
2-Fluorobiphenyl	1.423559	7.8			RSD (15)	
2,4,6-Tribromophenol	0.3434165	15.8		0.9989	QCOD (0.99)	
p-Terphenyl-d14	1.375355	17.3		0.9995	QCOD (0.99)	

Printed: 1/30/2023 5:53:33PM

ANALYSIS SEQUENCE

SLA0338

Instrument ID: NT14
Calibration ID: GA00072
MS EM Level: EV

GCMS Description: Agilent 7890A/5975C XL
GCMS Column ID: ZB-5MS

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLA0338-TUN1	MS Tune	QC		1	K008469		01/28/2023 15:52	NT1401282301.D	VTS	
SLA0338-CAL1	CAL 0.2	QC		2	K011105	K010831	01/28/2023 19:41	NT1401282308.D	JGR	
SLA0338-CAL2	CAL 0.5	QC		3	K011106	K010831	01/28/2023 19:05	NT1401282307.D	JGR	
SLA0338-CAL3	CAL 1.0	QC		4	K011107	K010831	01/28/2023 18:29	NT1401282306.D	JGR	
SLA0338-CAL4	CAL 2.5	QC		5	K011108	K010831	01/28/2023 17:53	NT1401282305.D	JGR	
SLA0338-CAL5	CAL 5	QC		6	K011109	K010831	01/28/2023 17:17	NT1401282304.D	JGR	
SLA0338-CAL6	CAL 10	QC		7	K011110	K010831	01/28/2023 16:41	NT1401282303.D	JGR	
SLA0338-CAL7	CAL 20	QC		8	K011111	K010831	01/28/2023 16:05	NT1401282302.D	JGR	
SLA0338-SCV1	SCV 5.0	QC		9	K010066	K010831	01/28/2023 21:28	NT1401282311.D	JGR	
SLA0338-ICB1	Initial Cal Blank	QC		10	K005156	K010831	01/28/2023 22:04	NT1401282312.D	JGR	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230128.b

	Time	Filename	LabID	ClientId	DF																			
1	1552	NT1401282301.D	SLA0338-TUN1		1	|NO ISTDS FOUND||																		
2	1605	NT1401282302.D	SLA0338-CAL7		1	| 8.99	46969	||11.48	176821	||15.11	111844	||18.15	215084	||23.20	144210	||25.79	122857	||24.23	349093 |				
3	1641	NT1401282303.D	SLA0338-CAL6		1	| 8.99	50264	||11.48	178786	||15.10	114572	||18.14	215512	||23.19	166017	||25.78	143815	||24.22	324384 |				
4	1717	NT1401282304.D	SLA0338-CAL5		1	| 8.99	53060	||11.48	202004	||15.10	124451	||18.14	239860	||23.19	191274	||25.77	162367	||24.22	341876 |				
5	1753	NT1401282305.D	SLA0338-CAL4		1	| 8.99	70550	||11.48	260926	||15.10	159226	||18.14	316277	||23.19	242021	||25.77	213390	||24.22	431998 |				
6	1829	NT1401282306.D	SLA0338-CAL3		1	| 8.99	40977	||11.48	170624	||15.10	102649	||18.13	196598	||23.19	148746	||25.77	130323	||24.22	238153 |				
7	1905	NT1401282307.D	SLA0338-CAL2		1	| 8.98	63682	||11.48	238244	||15.10	150907	||18.13	288201	||23.19	221537	||25.77	198060	||24.22	364511 |				
8	1941	NT1401282308.D	SLA0338-CAL1		1	| 8.98	69773	||11.48	261358	||15.10	160002	||18.13	313355	||23.19	246129	||25.77	216836	||24.22	398721 |				
9	2017	NT1401282309.D	SEQ-SIM0.1		1	| 8.98	71493	||11.48	276563	||15.10	161904	||18.13	313145	||23.19	248400	||25.77	224621	||24.22	396239 |				
10	2053	NT1401282310.D			1	| 8.98	71357	||11.48	275204	||15.10	165566	||18.13	318499	||23.19	258390	||25.77	222503	||24.22	394078 |				
11	2128	NT1401282311.D	SLA0338-SCV1		1	| 8.98	64868	||11.48	237703	||15.10	145815	||18.13	284750	||23.19	217792	||25.77	197244	||24.22	398967 |				
12	2204	NT1401282312.D	SLA0338-ICB1		1	| 8.98	58224	||11.47	237075	||15.10	139134	||18.13	264256	||23.19	203513	||25.77	177406	||24.22	309702 |				

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230128.b

ARI Job No.: SLA0 Method: DFTPP8270E.m Instrument: nt14.i Date: 28-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1552	NT1401282301.D	SLA0338-TUN1		1	NO MANUAL INTEGRATION
1605	NT1401282302.D	SLA0338-CAL7		1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
1641	NT1401282303.D	SLA0338-CAL6		1	2,2'-oxybis(1-Chloropropane),
1717	NT1401282304.D	SLA0338-CAL5		1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
1753	NT1401282305.D	SLA0338-CAL4		1	2,2'-oxybis(1-Chloropropane),
1829	NT1401282306.D	SLA0338-CAL3		1	2,2'-oxybis(1-Chloropropane),
1905	NT1401282307.D	SLA0338-CAL2		1	2,2'-oxybis(1-Chloropropane), Indeno(1,2,3-cd)pyrene,
1941	NT1401282308.D	SLA0338-CAL1		1	1,4-Dichlorobenzene, 2,2'-oxybis(1-Chloropropane), Benzoic acid, 3-Nitroaniline, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylen
2017	NT1401282309.D	SEQ-SIM0.1		1	NO MANUAL INTEGRATION
2053	NT1401282310.D			1	NO MANUAL INTEGRATION
2128	NT1401282311.D	SLA0338-SCV1		1	NO MANUAL INTEGRATION
2204	NT1401282312.D	SLA0338-ICB1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 30-Jan-2023 17:48

NT1401282301.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282302.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282303.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282304.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282305.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282306.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282307.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282308.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282309.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282310.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282311.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282312.D	Data Locked	deenayd, 30-Jan-2023 17:48

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
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Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Last Edit : 30-Jan-2023 14:48 deenayd

Calibration File Names:
Level 1: \\target\share\chem3\nt14.i\20230128.b\NT1401282308.D
Level 2: \\target\share\chem3\nt14.i\20230128.b\NT1401282307.D
Level 3: \\target\share\chem3\nt14.i\20230128.b\NT1401282306.D
Level 4: \\target\share\chem3\nt14.i\20230128.b\NT1401282305.D
Level 5: \\target\share\chem3\nt14.i\20230128.b\NT1401282304.D
Level 6: \\target\share\chem3\nt14.i\20230128.b\NT1401282303.D
Level 7: \\target\share\chem3\nt14.i\20230128.b\NT1401282302.D

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	20.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	20.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
170 N,N-Dimethylaniline	#####	#####	#####	#####	#####	#####	#####					
								AVRG		0.000e+000		0.000e+000
171 2,3-Dimethylaniline	#####	#####	#####	#####	#####	#####	#####					
								AVRG		0.000e+000		0.000e+000
172 2,4-Dimethylaniline	#####	#####	#####	#####	#####	#####	#####					
								AVRG		0.000e+000		0.000e+000
173 2,5-Dimethylaniline	#####	#####	#####	#####	#####	#####	#####					
								AVRG		0.000e+000		0.000e+000
174 2,6-Dimethylaniline	#####	#####	#####	#####	#####	#####	#####					
								AVRG		0.000e+000		0.000e+000
175 3,4-Dimethylaniline	#####	#####	#####	#####	#####	#####	#####					
								AVRG		0.000e+000		0.000e+000
176 3,5-Dimethylaniline	#####	#####	#####	#####	#####	#####	#####					
								AVRG		0.000e+000		0.000e+000

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
177 p-Benzoquinone	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
168 Pentachlorobenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
145 4,4'-DDE	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
146 4,4'-DDD	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
147 4,4'-DDT	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
148 Dieldrin	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
149 TCMX	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
150 DCBP	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
138 Chlorobenzilate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
139 Isodrin	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
140 Diallate A	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
141 Diallate B	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
142 1,2-Dibromo-3-Chloropropane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
135 2,3,5,6-Tetrachlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
136 2,3,4,5-tetrachlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
133 Butylatedhydroxytoluene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
132 3,6-Dimethylphenanthrene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
131 1-Methylphenanthrene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
130 Dibenzothiophene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
129 1-Methylfluorene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
128 N-Hexadecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
127 2-Isopropylnaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
126 N-Tetradecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
144 alpha-Terpineol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
125 Safrole	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
124 3,4-Dimethylphenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
123 Acetophenone	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
122 Furfuraldehyde	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
143 1,4-Dioxane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
121 Quinoline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
120 2,3,4,6-Tetrachlorophenol	2730 / 342613	7318	10290	42555	79385	163404	QUAD	0.000e+000	1.95853	-0.10792	0.99925	
178 2-Benzyl-4-Chlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
119 7,12-Dimethylbenz(a)anthracen	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
118 Triphenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
117 Butyl Diphenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
116 Dibutyl Phenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
115 Tributyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
114 Beta-Pinene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
113 Diphenyl Oxide	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
112 Biphenyl	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
111 Azobenzene (1,2-DP-Hydrazine)	3.02609 / 3.52742	3.02062	3.04926	3.18606	3.37083	3.26152	AVRG		3.20597		6.04379	
110 Tetrachloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Integrator : HP RTE
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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20.0000 Level 7											
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
181 3,4,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
106 Guaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
105 1-methylnaphthalene	0.77511 / 0.95729	0.72064	0.73448	0.75919	0.78492	0.84581	AVRG		0.79677		10.23066	
151 1,2,4,5-Tetrachlorobenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
152 Benzo(e)pyrene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
153 Chlorpyrifos	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
154 Diazinon	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
155 Kelthane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
156 Methyl Parathion	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
157 Ethyl Parathion	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
158 Ethion	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
159 4-Nonylphenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
160 Tetraethyl Tin	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
161 1,2,3-Trichloronaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
162 1,2,3,4-Tetrachloronapthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20230128.b\ABN.m
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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
163 1,2,3,5,8-Pentachloronaphthal	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
164 1,2,3,4,6,7-Hexachloronaphtha	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
165 1,2,3,4,5,6,7-Heptachloronaph	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
166 Octachloronaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
167 2,2',4,4',5-Pentabromobipheny	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Phenol	1.64046 / 1.89364	1.75623	1.84884	1.56052	1.79047	1.62977	AVRG		1.73142		7.15258
4 Bis(2-Chloroethyl)ether	1.01845 / 0.99601	1.00399	1.12502	0.91916	0.98295	0.92523	AVRG		0.99583		6.89636

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
6 2-Chlorophenol	1.47736	1.33526	1.52359	1.30608	1.48054	1.34612					
	1.59436						AVRG		1.43762		7.59499
7 1,3-Dichlorobenzene	1.56852	1.58249	1.60295	1.50284	1.64685	1.55360					
	1.77990						AVRG		1.60530		5.52857
9 1,4-Dichlorobenzene	1.70897	1.61829	1.60246	1.46749	1.65903	1.51389					
	1.78399						AVRG		1.62202		6.71271
11 Benzyl alcohol	0.79200	0.88414	0.87122	0.79102	0.87472	0.80784					
	0.95439						AVRG		0.85362		7.03751
12 1,2-Dichlorobenzene	1.89357	1.35021	1.57679	1.43630	1.64308	1.47410					
	1.79004						AVRG		1.59487		12.26418
13 2-Methylphenol	1.27385	1.28777	1.40410	1.17924	1.41729	1.27126					
	1.47264						AVRG		1.32945		7.80318
14 2,2'-oxybis(1-Chloropropane)	0.47296	0.42084	0.50594	0.39634	0.46688	0.39803					
	0.46507						AVRG		0.44658		9.37559

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
15 4-Methylphenol	1.47994	1.48450	1.55072	1.30794	1.56252	1.44238					
	1.67575						AVRG		1.50054		7.60895
16 N-Nitroso-di-n-propylamine	1.06918	1.17999	1.27408	1.10086	1.18963	1.09623					
	1.21054						AVRG		1.16007		6.35970
17 Hexachloroethane	0.99953	0.91052	1.01198	0.93000	0.99656	0.94190					
	1.05888						AVRG		0.97848		5.38577
19 Nitrobenzene	0.54829	0.52974	0.53308	0.55328	0.57505	0.57213					
	0.59278						AVRG		0.55777		4.16361
20 Isophorone	0.64555	0.58229	0.55172	0.60877	0.69630	0.61134					
	0.71981						AVRG		0.63083		9.57771
21 2-Nitrophenol	2367	4617	8221	29576	56074	99836					
	211860						QUAD	0.000e+000	4.77785	-0.50706	0.99957
22 2,4-Dimethylphenol	0.56501	0.52905	0.52287	0.51165	0.62240	0.56118					
	0.63073						AVRG		0.56327		8.42812

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
23 Bis(2-Chloroethoxy)methane	0.33999	0.30496	0.28322	0.30344	0.33826	0.32758					
	0.33325						AVRG		0.31867		6.78752
24 Benzoic acid	+++++	16404	29860	191068	360678	652289					
	1424206						QUAD	0.000e+000	2.99098	-0.06333	0.99930
25 2,4-Dichlorophenol	8530	17827	29033	105704	192602	337219					
	829486						QUAD	0.000e+000	2.93967	-0.17199	0.99956
26 1,2,4-Trichlorobenzene	0.41284	0.37128	0.36600	0.36986	0.38764	0.39847					
	0.45472						AVRG		0.39440		8.00696
28 Naphthalene	1.02541	0.97383	0.93553	0.93413	1.00687	1.01107					
	1.15818						AVRG		1.00643		7.55929
29 4-Chloroaniline	+++++	22047	32239	131366	222397	417059					
	967944						QUAD	0.000e+000	2.39724	-0.10435	0.99993
30 Hexachlorobutadiene	0.31260	0.27998	0.29562	0.29213	0.31169	0.32263					
	0.36507						AVRG		0.31139		8.90715

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
31 4-Chloro-3-methylphenol	+++++	24801	33716	142617	254380	461789					
	1097198						QUAD	0.000e+000	2.16028	-0.08845	0.99976
32 2-Methylnaphthalene	0.79554	0.75959	0.73652	0.76908	0.81072	0.85685					
	1.01503						AVRG		0.82048		11.48621
33 Hexachlorocyclopentadiene	+++++	17722	23369	104178	188162	352943					
	864187						QUAD	0.000e+000	1.82603	-0.06881	0.99968
34 2,4,6-Trichlorophenol	+++++	14927	21259	88982	171739	308573					
	784403						QUAD	0.000e+000	2.07716	-0.09276	0.99915
35 2,4,5-Trichlorophenol	+++++	17353	24581	102298	188489	344065					
	894309						QUAD	0.000e+000	1.87532	-0.07805	0.99943
37 2-Chloronaphthalene	1.20711	1.10685	1.06355	1.11625	1.19332	1.20037					
	1.40320						AVRG		1.18438		9.37576
38 2-Nitroaniline	+++++	0.59769	0.60201	0.70657	0.73139	0.74637					
	0.78475						AVRG		0.69480		11.19806

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
39 Dimethylphthalate	1.47336	1.40198	1.48120	1.48396	1.61166	1.56780					
	1.70790						AVRG		1.53255		6.72854
40 Acenaphthylene	1.94785	1.71433	1.69330	1.75286	1.86306	1.84578					
	2.16069						AVRG		1.85398		8.76879
41 2,6-Dinitrotoluene	+++++	0.28174	0.35757	0.31584	0.36216	0.36159					
	0.43170						AVRG		0.35177		14.39623
43 3-Nitroaniline	+++++	0.29881	0.33296	0.32437	0.34335	0.34095					
	0.39726						AVRG		0.33961		9.56922
44 Acenaphthene	1.25123	1.18780	1.18758	1.17782	1.24612	1.25550					
	1.47232						AVRG		1.25405		8.12754
45 2,4-Dinitrophenol	+++++	13036	21368	116114	233845	457005					
	1176244						QUAD	0.000e+000	2.90959	-0.09595	0.99932
46 Dibenzofuran	1.84248	1.63083	1.67628	1.69420	1.83662	1.86778					
	2.17251						AVRG		1.81724		10.03528

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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
47 4-Nitrophenol	+++++	18992	27582	127325	238341	418146					
	908010						QUAD	0.000e+000	1.44769	-0.02651	0.99921
48 2,4-Dinitrotoluene	+++++	0.41021	0.44692	0.46963	0.50610	0.51238					
	0.58403						AVRG		0.48821		12.36454
49 Fluorene	14241	40666	52665	217673	380430	720768					
	1778473						QUAD	0.000e+000	0.44801	-0.00840	0.99985
50 Diethylphthalate	2.04935	2.07137	2.22853	2.15009	2.36698	2.26197					
	2.46087						AVRG		2.22702		6.79035
51 4-Chlorophenyl-phenylether	1.18936	1.23297	1.14168	1.14742	1.24831	1.33448					
	1.69142						AVRG		1.28366		14.92673
52 4-Nitroaniline	+++++	0.37634	0.37111	0.37855	0.41916	0.42214					
	0.45240						AVRG		0.40328		8.14401
53 4,6-Dinitro-2-methylphenol	+++++	22996	31988	162023	306613	577584					
	1433547						QUAD	0.000e+000	4.26054	-0.18929	0.99947

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
54 N-Nitrosodiphenylamine	0.70546	0.64152	0.64821	0.62446	0.65879	0.67245					
	0.78712						AVRG		0.67686		8.12258
56 4-Bromophenyl-phenylether	0.29309	0.26457	0.31720	0.29391	0.32837	0.33058					
	0.38078						AVRG		0.31550		11.73157
57 Hexachlorobenzene	0.33834	0.33763	0.32582	0.33415	0.36188	0.38213					
	0.44036						AVRG		0.36004		11.19989
58 Pentachlorophenol	+++++	9625	14875	64929	128960	241004					
	647723						QUAD	0.000e+000	5.16683	-0.61345	0.99931
60 Phenanthrene	1.08503	0.97471	1.02084	0.96173	1.10744	1.11426					
	1.29088						AVRG		1.07927		10.35871
61 Anthracene	0.90562	0.95061	0.97411	0.94663	1.08045	1.09519					
	1.26632						AVRG		1.03128		12.16790
62 Carbazole	0.80937	0.91228	0.93193	0.86917	0.98239	0.98323					
	1.14040						AVRG		0.94697		11.10913

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
63 Di-n-butylphthalate	1.29361	1.24016	1.34140	1.36848	1.58150	1.61912					
	1.83307						AVRG		1.46819		14.64127
64 Fluoranthene	17075	38725	55632	222391	392508	709684					
	1645902						QUAD	0.000e+000	0.66795	-0.02013	0.99988
65 Pyrene	18213	39796	54684	216203	385340	707442					
	1615156						QUAD	0.000e+000	0.67255	-0.02019	0.99990
67 Butylbenzylphthalate	7723	17650	30748	119310	209097	384047					
	814908						QUAD	0.000e+000	1.22076	-0.05948	0.99991
68 Benzo(a)anthracene	1.36798	1.33067	1.34675	1.32754	1.42380	1.52635					
	1.88942						AVRG		1.45893		13.86979
70 3,3'-Dichlorobenzidine	+++++	40098	58075	235117	412239	983338					
	3088017						QUAD	0.000e+000	1.56605	-0.04047	0.99742
71 Chrysene	14603	34164	49392	196033	354886	662462					
	1879861						QUAD	0.000e+000	0.73482	-0.02695	0.99988

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
72 bis(2-Ethylhexyl)phthalate	11911	25995	37744	166290	306677	588097					
	1630456						QUAD	0.000e+000	1.55298	-0.10322	0.99969
73 Di-n-octylphthalate	1.06576	1.07603	1.00502	0.94071	1.00835	0.95559					
	1.01828						AVRG		1.00996		5.00414
74 Benzo(b)fluoranthene	1.29656	1.25303	1.36099	1.26366	1.39694	1.47738					
	1.79061						AVRG		1.40560		13.33394
75 Benzo(k)fluoranthene	1.39506	1.31019	1.30319	1.25028	1.46076	1.46961					
	1.88425						AVRG		1.43905		14.80214
187 Total Benzofluoranthenes	1.31703	1.23254	1.26915	1.20902	1.37073	1.41064					
	1.76955						AVRG		1.36838		13.96378
76 Benzo(a)pyrene	1.11928	1.05754	1.18991	1.07828	1.23781	1.23297					
	1.49112						AVRG		1.20099		12.20845
78 Indeno(1,2,3-cd)pyrene	1.39230	1.33374	1.37133	1.43310	1.56025	1.60433					
	1.92604						AVRG		1.51730		13.56571

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79 Dibenzo(a,h)anthracene	1.21797	1.18421	1.18321	1.18900	1.30203	1.36892					
	1.70127						AVRG		1.30666		14.37067
80 Benzo(g,h,i)perylene	1.08995	1.01315	1.15980	1.04572	1.13936	1.14120					
	1.27629						AVRG		1.12364		7.67138
90 N-Nitrosodimethylamine	0.66759	0.61713	0.71450	0.56776	0.63349	0.57623					
	0.76304						AVRG		0.64853		11.04600
91 Aniline	1.49155	1.32760	1.52271	1.36710	1.48876	1.44048					
	1.64690						AVRG		1.46930		7.17185
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++	0.74913	0.79026	0.58362	0.74058	0.54955					
	0.64529						AVRG		0.67640		14.49121
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
97 Caffeine	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
98 Retene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
99 Perylene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
100 3-beta-Coprostanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
101 Cholesterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
102 beta-Sitosterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
103 Pyridine	1.71728 / 2.35611	1.82055	1.85011	1.68407	1.92621	1.73502	AVRG		1.86991		12.31974	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
188 2,6-Dichlorophenol	***** / *****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000	<-
189 N-Nitrosomethylethylamine	***** / *****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000	<-
$ 1 2-Fluorophenol	1.04319 / 1.19779	1.01253	1.10657	0.99691	1.14963	1.01382	AVRG		1.07435		7.24965	
$ 137 d8-1,4-Dioxane	***** / *****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000	<-
$ 2 Phenol-d5	1.47297 / 1.55845	1.39443	1.45246	1.24786	1.44813	1.30682	AVRG		1.41159		7.45353	
$ 5 2-Chlorophenol-d4	1.46647 / 1.51607	1.31277	1.34170	1.20495	1.42780	1.28743	AVRG		1.36531		8.02147	
$ 10 1,2-Dichlorobenzene-d4	0.96628 / 1.02963	1.04808	1.04420	0.82604	0.97553	0.89318	AVRG		0.96899		8.61606	

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Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Last Edit : 30-Jan-2023 14:48 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 18 Nitrobenzene-d5	0.55885	0.51890	0.54206	0.53954	0.64223	0.59194					
	0.61268						AVRG		0.57231		7.79042
$ 36 2-Fluorobiphenyl	1.50711	1.37430	1.32985	1.29543	1.49848	1.36281					
	1.59694						AVRG		1.42356		7.79961
$ 55 2,4,6-Tribromophenol	+++++	8590	10504	45158	85915	148683					
	359040						QUAD	0.000e+000	3.14323	-0.25062	0.99881
$ 66 Terphenyl-d14	15443	35046	45530	179807	337190	582455					
	1355815						QUAD	0.000e+000	0.80374	-0.02889	0.99953
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
End Cal Date : 28-JAN-2023 19:41
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Last Edit : 30-Jan-2023 14:48 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
End Cal Date : 28-JAN-2023 19:41
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Last Edit : 30-Jan-2023 14:48 deenayd

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230128.b
Inst ID: nt14.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	NT1401282302	NT1401282303	NT1401282304	NT1401282305	NT1401282306	NT1401282307	NT1401282308
INJ.DATE:	28-JAN-2023	28-JAN-2023	28-JAN-2023	28-JAN-2023	28-JAN-2023	28-JAN-2023	28-JAN-2023
INJ.TIME:	16:05	16:41	17:17	17:53	18:29	19:05	19:41

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	6.744	6.744	6.744	6.744	6.744	6.744	6.744	6.744	3.744-9.744	6.744	0.000
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.785	15.785-21.785	+++++	+++++
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.645	5.645-11.645	+++++	+++++
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.455	14.455-20.455	+++++	+++++
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.696	17.696-23.696	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.219	16.219-22.219	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.949	19.949-25.949	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.196	16.196-22.196	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.503	17.503-23.503	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.827	4.827-10.827	+++++	+++++
168 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.842	12.842-18.842	+++++	+++++
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230128.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.383	13.383-19.383	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.445	0.000-5.445	+++++	+++++
* 134 Di-n-octylphthalate-d4	24.231	24.223	24.224	24.224	24.224	24.216	24.216	24.231	21.231-27.231	24.222	0.005
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.571	12.571-18.571	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.447	8.447-14.447	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230128.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.252	7.252-13.252	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.697	0.000-5.697	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	15.838	15.831	15.831	15.831	15.831	15.823	15.831	15.838	12.838-18.838	15.831	0.004
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.963	15.963-21.963	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.215	18.215-24.215	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.761	13.761-19.761	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.747	15.747-21.747	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.923	13.923-19.923	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.341	11.341-17.341	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.085	11.085-17.085	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	16.541	16.533	16.526	16.526	16.518	16.518	16.518	16.541	13.541-19.541	16.526	0.009
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.140	14.140-20.140	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.070	12.070-18.070	+++++	+++++
181 3,4,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.232	12.232-18.232	+++++	+++++
108 4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.374	13.374-19.374	+++++	+++++
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.120	10.120-16.120	+++++	+++++
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.735	8.735-14.735	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230128.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.243	6.243-12.243	+++++	+++++
105 1-methylnaphthalene	13.154	13.146	13.146	13.146	13.138	13.139	13.139	13.154	10.154-16.154	13.144	0.006
151 1,2,4,5-Tetrachloroben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.499	8.499-14.499	+++++	+++++
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.642	24.642-30.642	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.953	22.953-28.953	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.750	24.750-30.750	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.464	23.464-29.464	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.099	24.099-30.099	+++++	+++++
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.513	21.513-27.513	+++++	+++++
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.132	22.132-28.132	+++++	+++++
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.528	16.528-22.528	+++++	+++++
161 1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
162 1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
163 1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
164 1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
165 1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
167 2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
$ 2 Phenol-d5	8.351	8.344	8.336	8.336	8.329	8.329	8.329	8.351	5.351-11.351	8.336	0.009
3 Phenol	8.375	8.367	8.359	8.359	8.352	8.352	8.352	8.375	5.375-11.375	8.359	0.009
4 Bis(2-Chloroethyl)ethe	8.537	8.529	8.529	8.529	8.522	8.522	8.529	8.537	5.537-11.537	8.528	0.005
$ 5 2-Chlorophenol-d4	8.622	8.622	8.614	8.614	8.614	8.614	8.614	8.622	5.622-11.622	8.616	0.004

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230128.b
Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	6 2-Chlorophenol	8.653	8.645	8.645	8.637	8.637	8.645	8.637	8.653	5.653-11.653	8.643	0.006
	7 1,3-Dichlorobenzene	8.923	8.923	8.924	8.916	8.916	8.916	8.916	8.923	5.923-11.923	8.919	0.004
*	8 1,4-Dichlorobenzene-d4	8.986	8.986	8.986	8.986	8.986	8.978	8.978	8.986	5.986-11.986	8.983	0.004
	9 1,4-Dichlorobenzene	9.017	9.017	9.017	9.017	9.017	9.009	9.009	9.017	6.017-12.017	9.014	0.004
$	10 1,2-Dichlorobenzene-d4	9.350	9.350	9.343	9.343	9.343	9.343	9.343	9.350	6.350-12.350	9.345	0.004
	11 Benzyl alcohol	9.265	9.257	9.250	9.250	9.250	9.250	9.250	9.265	6.265-12.265	9.253	0.006
	12 1,2-Dichlorobenzene	9.374	9.374	9.374	9.374	9.366	9.374	9.366	9.374	6.374-12.374	9.372	0.004
	13 2-Methylphenol	9.490	9.482	9.482	9.475	9.475	9.475	9.475	9.490	6.490-12.490	9.479	0.006
	14 2,2'-oxybis(1-Chloropr	9.568	9.560	9.568	9.560	9.560	9.552	9.560	9.568	6.568-12.568	9.561	0.005
	15 4-Methylphenol	9.762	9.754	9.746	9.747	9.746	9.747	9.747	9.762	6.762-12.762	9.750	0.006
	16 N-Nitroso-di-n-propyla	9.839	9.824	9.824	9.816	9.816	9.816	9.809	9.839	6.839-12.839	9.821	0.010
	17 Hexachloroethane	9.971	9.971	9.971	9.972	9.964	9.964	9.964	9.971	6.971-12.971	9.968	0.004
$	18 Nitrobenzene-d5	10.088	10.080	10.080	10.080	10.080	10.080	10.072	10.088	7.088-13.088	10.080	0.004
	19 Nitrobenzene	10.127	10.119	10.119	10.111	10.111	10.111	10.111	10.127	7.127-13.127	10.116	0.006
	20 Isophorone	10.592	10.577	10.569	10.561	10.561	10.561	10.561	10.592	7.592-13.592	10.569	0.012
	21 2-Nitrophenol	10.755	10.747	10.747	10.747	10.747	10.747	10.747	10.755	7.755-13.755	10.748	0.003
	22 2,4-Dimethylphenol	10.817	10.809	10.802	10.802	10.802	10.794	10.794	10.817	7.817-13.817	10.803	0.008
	23 Bis(2-Chloroethoxy)met	11.011	11.011	11.003	11.003	11.003	10.996	11.003	11.011	8.011-14.011	11.004	0.005
	24 Benzoic acid	11.150	11.057	11.011	10.965	10.902	10.895	10.887	11.150	8.150-14.150	10.981	0.098
	25 2,4-Dichlorophenol	11.212	11.205	11.205	11.197	11.197	11.197	11.197	11.212	8.212-14.212	11.201	0.006
	26 1,2,4-Trichlorobenzene	11.398	11.398	11.390	11.391	11.391	11.391	11.391	11.398	8.398-14.398	11.393	0.004
*	27 Naphthalene-d8	11.483	11.483	11.475	11.475	11.475	11.475	11.475	11.483	8.483-14.483	11.478	0.004
	28 Naphthalene	11.529	11.522	11.522	11.514	11.514	11.514	11.514	11.529	8.529-14.529	11.518	0.006
	29 4-Chloroaniline	11.661	11.653	11.645	11.645	11.638	11.645	11.645	11.661	8.661-14.661	11.647	0.007

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230128.b
Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	11.892	11.892	11.892	11.893	11.885	11.893	11.893	11.892	8.892-14.892	11.891	0.003
	31 4-Chloro-3-methylpheno	12.620	12.612	12.612	12.605	12.605	12.605	12.605	12.620	9.620-15.620	12.609	0.006
	32 2-Methylnaphthalene	12.929	12.922	12.922	12.922	12.914	12.914	12.914	12.929	9.929-15.929	12.920	0.006
	33 Hexachlorocyclopentadi	13.401	13.394	13.394	13.394	13.394	13.394	13.386	13.401	10.401-16.401	13.394	0.004
	34 2,4,6-Trichlorophenol	13.548	13.541	13.541	13.541	13.541	13.533	13.533	13.548	10.548-16.548	13.540	0.005
	35 2,4,5-Trichlorophenol	13.618	13.618	13.611	13.611	13.611	13.603	13.611	13.618	10.618-16.618	13.612	0.005
$	36 2-Fluorobiphenyl	13.711	13.711	13.711	13.703	13.703	13.703	13.703	13.711	10.711-16.711	13.707	0.004
	37 2-Chloronaphthalene	13.928	13.920	13.912	13.912	13.912	13.912	13.912	13.928	10.928-16.928	13.916	0.006
	38 2-Nitroaniline	14.191	14.175	14.168	14.168	14.168	14.168	14.160	14.191	11.191-17.191	14.171	0.010
	39 Dimethylphthalate	14.624	14.617	14.609	14.609	14.609	14.609	14.601	14.624	11.624-17.624	14.611	0.007
	40 Acenaphthylene	14.795	14.787	14.787	14.787	14.779	14.779	14.779	14.795	11.795-17.795	14.785	0.006
	41 2,6-Dinitrotoluene	14.764	14.756	14.748	14.741	14.741	14.741	14.741	14.764	11.764-17.764	14.747	0.009
*	42 Acenaphthene-d10	15.112	15.104	15.104	15.104	15.096	15.096	15.096	15.112	12.112-18.112	15.102	0.006
	43 3-Nitroaniline	15.050	15.034	15.027	15.019	15.011	15.011	15.011	15.050	12.050-18.050	15.024	0.015
	44 Acenaphthene	15.181	15.174	15.166	15.166	15.166	15.166	15.158	15.181	12.181-18.181	15.168	0.007
	45 2,4-Dinitrophenol	15.266	15.251	15.236	15.236	15.228	15.228	15.228	15.266	12.266-18.266	15.239	0.015
	46 Dibenzofuran	15.506	15.498	15.498	15.498	15.491	15.491	15.491	15.506	12.506-18.506	15.496	0.006
	47 4-Nitrophenol	15.359	15.344	15.336	15.328	15.328	15.328	15.328	15.359	12.359-18.359	15.336	0.012
	48 2,4-Dinitrotoluene	15.575	15.560	15.552	15.553	15.545	15.545	15.545	15.575	12.575-18.575	15.554	0.011
	49 Fluorene	16.217	16.209	16.210	16.210	16.202	16.202	16.202	16.217	13.217-19.217	16.207	0.006
	50 Diethylphthalate	16.094	16.078	16.071	16.071	16.063	16.063	16.063	16.094	13.094-19.094	16.072	0.011
	51 4-Chlorophenyl-phenyle	16.209	16.209	16.202	16.202	16.202	16.194	16.202	16.209	13.209-19.209	16.203	0.005
	52 4-Nitroaniline	16.333	16.302	16.294	16.287	16.279	16.279	16.271	16.333	13.333-19.333	16.292	0.021
	53 4,6-Dinitro-2-methylph	16.418	16.402	16.395	16.387	16.379	16.379	16.379	16.418	13.418-19.418	16.391	0.015

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230128.b
Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	16.464	16.456	16.449	16.449	16.449	16.441	16.441	16.464	13.464-19.464	16.450	0.008
$	55 2,4,6-Tribromophenol	16.749	16.742	16.742	16.742	16.734	16.734	16.742	16.749	13.749-19.749	16.741	0.005
	56 4-Bromophenyl-phenylet	17.212	17.204	17.204	17.204	17.204	17.197	17.204	17.212	14.212-20.212	17.204	0.004
	57 Hexachlorobenzene	17.529	17.521	17.521	17.521	17.513	17.513	17.513	17.529	14.529-20.529	17.519	0.006
	58 Pentachlorophenol	17.885	17.877	17.869	17.870	17.870	17.862	17.870	17.885	14.885-20.885	17.872	0.007
*	59 Phenanthrene-d10	18.148	18.140	18.140	18.140	18.133	18.133	18.133	18.148	15.148-21.148	18.138	0.006
	60 Phenanthrene	18.194	18.187	18.187	18.187	18.179	18.187	18.179	18.194	15.194-21.194	18.186	0.005
	61 Anthracene	18.287	18.279	18.280	18.280	18.272	18.272	18.280	18.287	15.287-21.287	18.278	0.005
	62 Carbazole	18.612	18.604	18.604	18.605	18.597	18.605	18.605	18.612	15.612-21.612	18.604	0.004
	63 Di-n-butylphthalate	19.424	19.417	19.417	19.417	19.417	19.417	19.409	19.424	16.424-22.424	19.417	0.004
	64 Fluoranthene	20.585	20.577	20.577	20.570	20.570	20.570	20.570	20.585	17.585-23.585	20.574	0.006
	65 Pyrene	21.010	21.003	21.003	20.995	20.995	20.995	20.995	21.010	18.010-24.010	21.000	0.006
$	66 Terphenyl-d14	21.297	21.289	21.289	21.289	21.289	21.289	21.289	21.297	18.297-24.297	21.290	0.003
	67 Butylbenzylphthalate	22.226	22.218	22.218	22.211	22.218	22.211	22.211	22.226	19.226-25.226	22.216	0.006
	68 Benzo(a)anthracene	23.171	23.163	23.163	23.163	23.163	23.155	23.155	23.171	20.171-26.171	23.162	0.005
*	69 Chrysene-d12	23.202	23.194	23.194	23.186	23.186	23.186	23.186	23.202	20.202-26.202	23.191	0.006
	70 3,3'-Dichlorobenzidine	23.132	23.124	23.117	23.117	23.109	23.109	23.109	23.132	20.132-26.132	23.117	0.009
	71 Chrysene	23.248	23.240	23.240	23.233	23.233	23.233	23.233	23.248	20.248-26.248	23.237	0.006
	72 bis(2-Ethylhexyl)phtha	23.248	23.240	23.240	23.240	23.240	23.240	23.240	23.248	20.248-26.248	23.241	0.003
	73 Di-n-octylphthalate	24.239	24.231	24.231	24.231	24.231	24.231	24.231	24.239	21.239-27.239	24.232	0.003
	74 Benzo(b)fluoranthene	25.036	25.029	25.029	25.021	25.021	25.021	25.021	25.036	22.036-28.036	25.025	0.006
	75 Benzo(k)fluoranthene	25.083	25.075	25.067	25.068	25.067	25.060	25.060	25.083	22.083-28.083	25.069	0.008
	187 Total Benzofluoranthen	25.083	25.075	25.067	25.021	25.021	25.021	25.021	25.083	22.083-28.083	25.044	0.029
	76 Benzo(a)pyrene	25.679	25.671	25.664	25.664	25.656	25.656	25.648	25.679	22.679-28.679	25.663	0.010

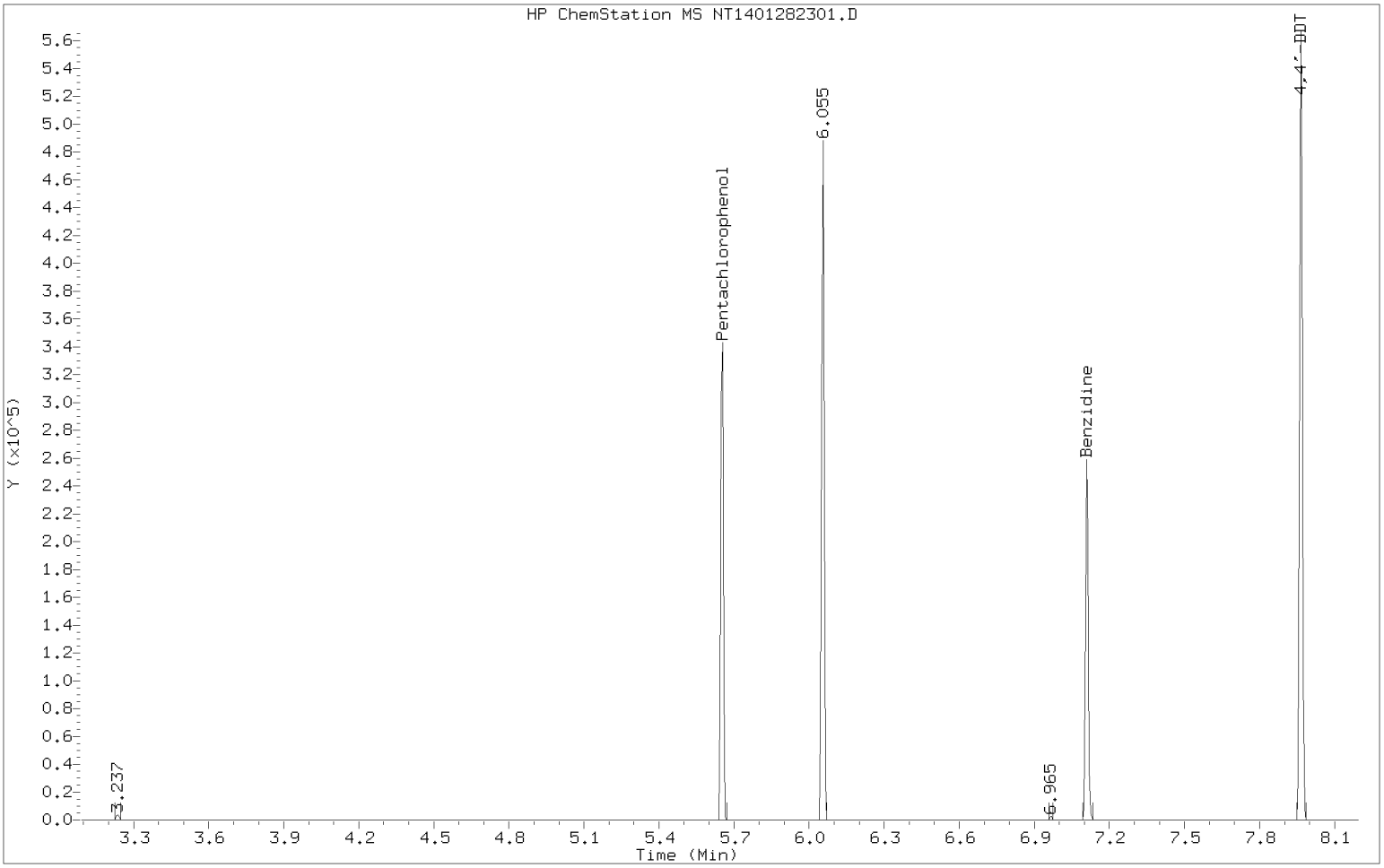
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

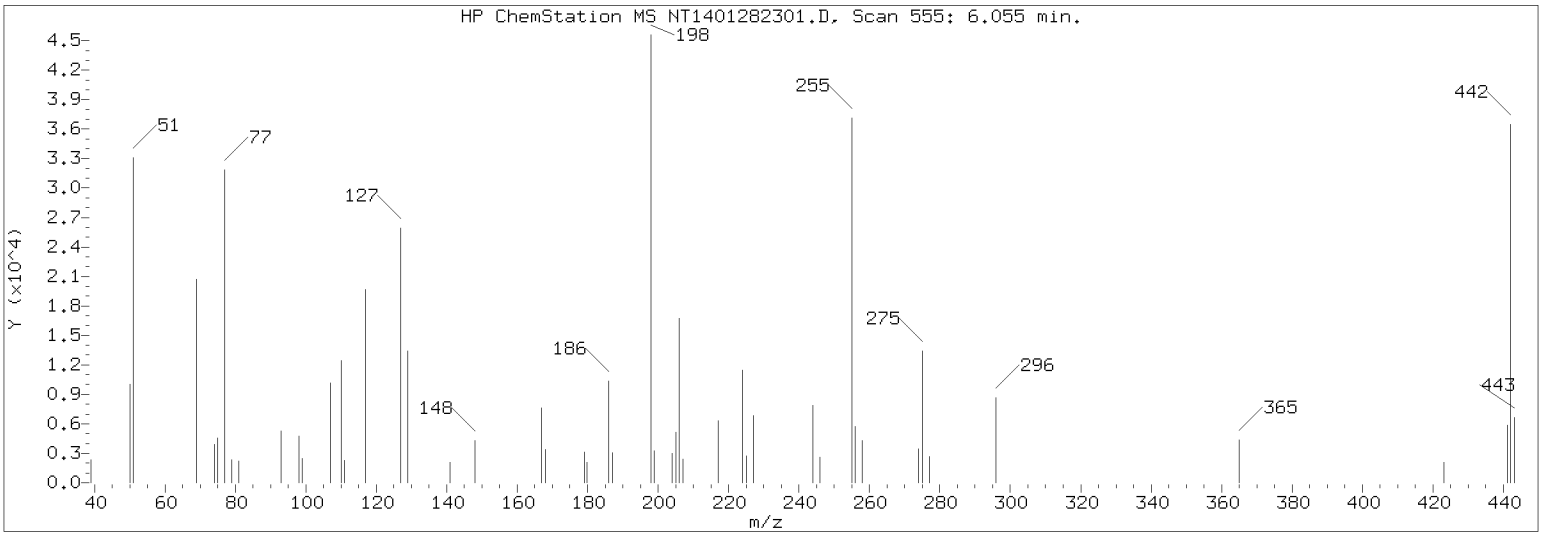
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230128.b
Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	77 Perylene-d12	25.787	25.780	25.772	25.772	25.772	25.772	25.772	25.787	22.787-28.787	25.775	0.006
	78 Indeno(1,2,3-cd)pyrene	28.406	28.383	28.375	28.368	28.360	28.352	28.368	28.406	25.406-31.406	28.373	0.018
	79 Dibenzo(a,h)anthracene	28.406	28.391	28.383	28.383	28.368	28.376	28.368	28.406	25.406-31.406	28.382	0.014
	80 Benzo(g,h,i)perylene	29.168	29.144	29.137	29.129	29.129	29.113	29.106	29.168	26.168-32.168	29.132	0.020
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	4.582	4.566	4.559	4.559	4.559	4.559	4.559	4.582	1.582-7.582	4.563	0.009
	91 Aniline	8.444	8.436	8.437	8.429	8.429	8.429	8.429	8.444	5.444-11.444	8.433	0.006
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	20.817	20.809	20.809	20.802	20.802	20.802	20.802	20.817	17.817-23.817	20.806	0.006
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.787	15.787-21.787	+++++	+++++
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.361	21.361-27.361	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.411	22.411-28.411	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.023	23.023-29.023	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	4.582	4.582	4.582	4.574	4.589	4.589	4.597	4.582	1.582-7.582	4.585	0.008
	188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.874	8.874-14.874	+++++	+++++
	189 N-Nitrosomethylethylam	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.818	2.818-8.818	+++++	+++++

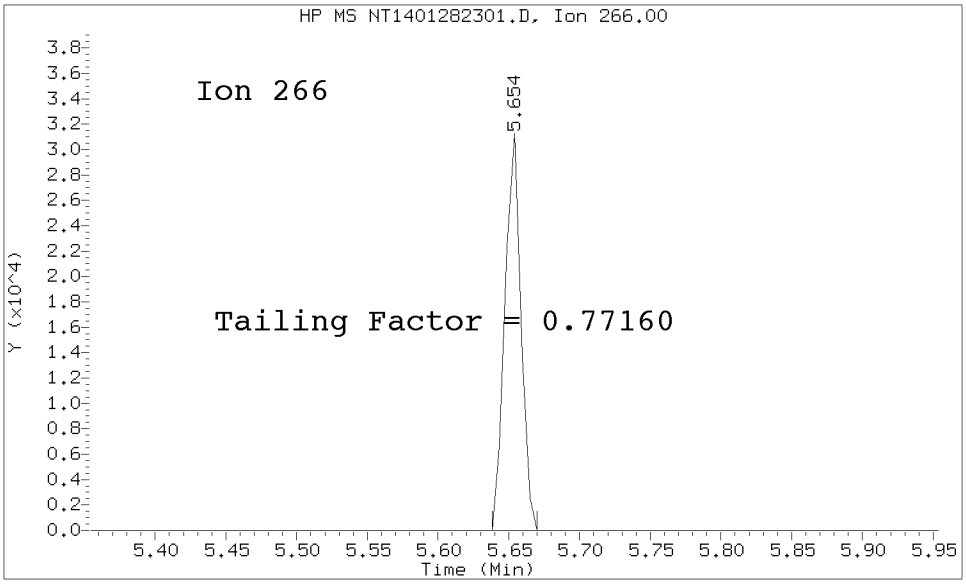
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230128.b/NT1401282301.D/NT1401282301.D
Method Used: \20230128.b\DFTPP8270E.m Inst: nt14
Injection Date: 28-JAN-2023 15:52 Operator: VTS
Sample Info: SLA0338-TUN1 SLA0338-TUN1
Report Date: 01/31/2023 13:25



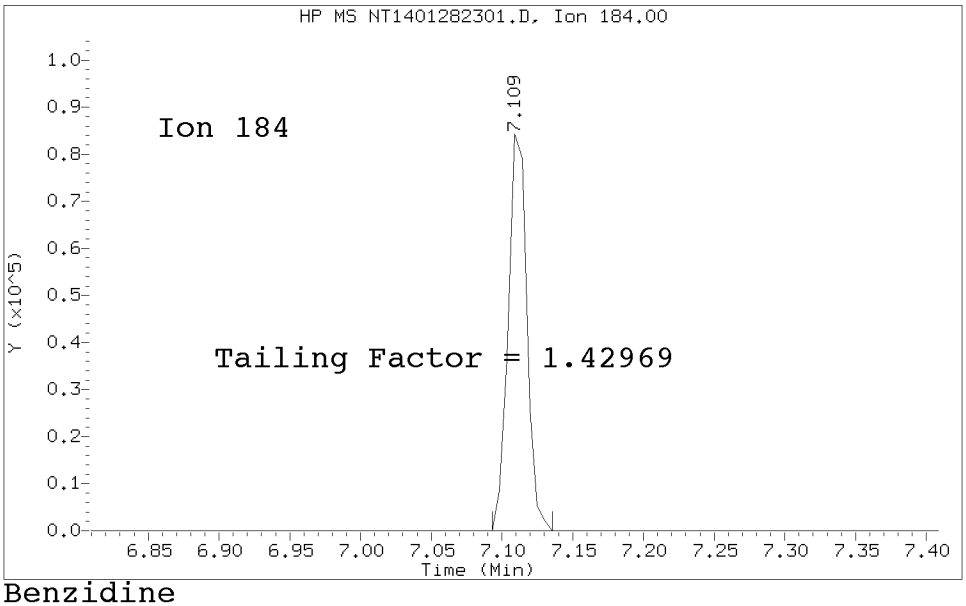


Datafile Analyzed: /20230128.b/NT1401282301.D/NT1401282301.D
Method Used: \20230128.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 28-JAN-2023 15:52 Operator: JZ
Sample Info: SEQ-TUN
Report Date: 01/31/2023 13:25



Pentachlorophenol
==========
Exp. RT = 5.654
Found RT = 5.654

Tail Factor = 0.772 Maximum Allowed = 2.0



Benzidine
==========
Exp. RT = 7.109
Found RT = 7.109

Tail Factor = 1.430 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.7716049	2.000	PASS
Benzidine	1.4296875	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	65292			N/A
4,4-DDE	0	0.0	20.0	PASS
4,4-DDD	0	0.0	20.0	PASS
4,4-DDD + DDE	0	0.0	20.0	PASS

Tuning Sample, nt14.i/20230128.b/NT1401282301.D, *** PASSED ***

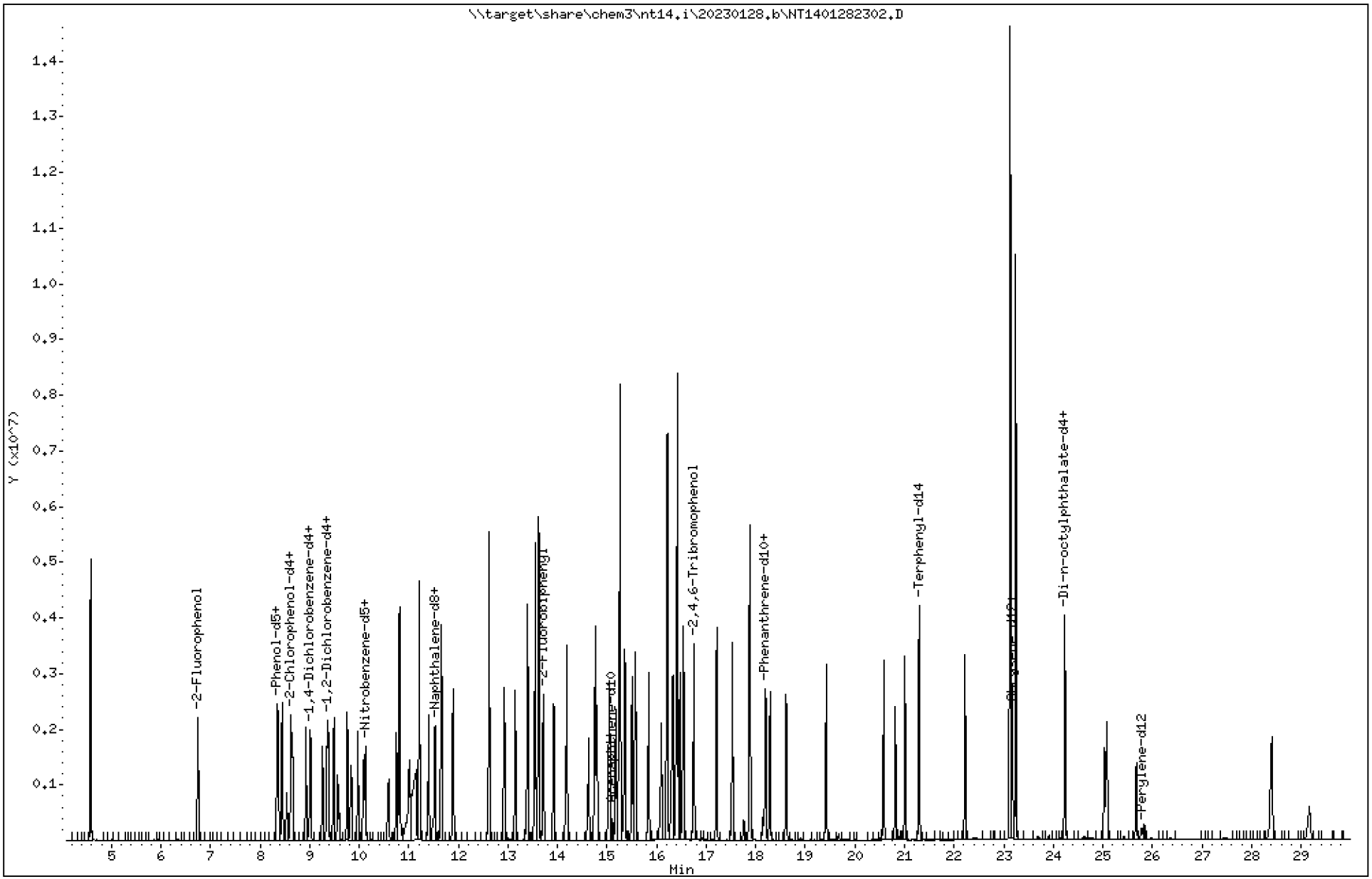
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.49
70	Less than 2.00% of mass 69	0.00 (0.00)
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.20
365	1.00 - 100.00% of mass 198	9.56
441	Less than 150.00% of mass 443	12.81 (88.23)
442	Less than 200.00% of mass 198	80.04
443	15.00 - 24.00% of mass 442	14.52 (18.14)

Data File: NT1401282301.D
Spectrum: HP ChemStation MS NT1401282301.D, Scan 555: 6.055 min. (S
Location of Maximum: 198.00
Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	2323	110.00	12464	198.00	45600	256.00	5750
50.00	10062	111.00	2252	198.90	3283	258.00	4312
51.00	33096	117.00	19704	204.00	3009	274.00	3445
68.90	20744	127.00	25912	205.00	5121	275.00	13444
74.00	3924	129.00	13445	206.00	16728	277.00	2665
75.00	4547	140.90	2086	207.00	2402	296.00	8684
77.00	31880	148.00	4328	217.00	6333	365.00	4360
79.00	2317	167.00	7601	224.00	11469	423.10	2066
80.90	2245	168.00	3375	225.00	2739	441.10	5841
92.90	5291	179.00	3156	227.00	6820	442.10	36496
98.00	4750	179.90	2099	244.00	7912	443.10	6620
98.90	2502	186.00	10327	246.00	2607		
106.90	10151	187.00	3041	255.00	37160		

Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282302.D
Date : 28-JAN-2023 16:05
Client ID:
Sample Info: SLA0338-CAL7

Instrument: nt14.i
Operator: JGR
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230128.b\NT1401282302.D
Lab Smp Id: SLA0338-CAL7
Inj Date : 28-JAN-2023 16:05 MS Autotune Date: 17-MAY-2011 01:22
Operator : JGR Inst ID: nt14.i
Smp Info : SLA0338-CAL7
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 16:05 Cal File: NT1401282302.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.744	6.744	(0.751)	421943	30.0000	33.45
$	2 Phenol-d5	99	8.351	8.328	(0.929)	548990	30.0000	33.12
	3 Phenol	94	8.374	8.351	(0.932)	444712	20.0000	21.87
$	5 2-Chlorophenol-d4	132	8.621	8.614	(0.960)	534062	30.0000	33.31
	4 Bis(2-Chloroethyl)ether	93	8.536	8.529	(0.950)	233908	20.0000	20.00
	6 2-Chlorophenol	128	8.652	8.637	(0.963)	374427	20.0000	22.18
	7 1,3-Dichlorobenzene	146	8.923	8.915	(0.993)	418000	20.0000	22.18
*	8 1,4-Dichlorobenzene-d4	152	8.985	8.978	(1.000)	46969	4.00000	
	9 1,4-Dichlorobenzene	146	9.016	9.009	(1.003)	418960	20.0000	22.00
$	10 1,2-Dichlorobenzene-d4	152	9.350	9.342	(1.041)	241804	20.0000	21.25
	12 1,2-Dichlorobenzene	146	9.373	9.366	(1.043)	420381	20.0000	22.45
	11 Benzyl alcohol	108	9.264	9.249	(1.031)	224133	20.0000	22.36
	14 2,2'-oxybis(1-Chloropropane)	121	9.567	9.560	(1.065)	109220	20.0000	20.83(M)
	13 2-Methylphenol	108	9.490	9.474	(1.056)	345842	20.0000	22.15
	17 Hexachloroethane	117	9.971	9.963	(1.110)	248672	20.0000	21.64
	16 N-Nitroso-di-n-propylamine	70	9.839	9.808	(1.095)	284289	20.0000	20.87
	15 4-Methylphenol	108	9.761	9.746	(1.086)	393541	20.0000	22.34
$	18 Nitrobenzene-d5	82	10.087	10.072	(0.878)	541673	20.0000	21.41
	19 Nitrobenzene	77	10.126	10.111	(0.882)	524079	20.0000	21.26
	20 Isophorone	82	10.592	10.561	(0.922)	636392	20.0000	22.82
	21 2-Nitrophenol	139	10.754	10.747	(0.937)	211860	20.0000	19.99
	22 2,4-Dimethylphenol	107	10.817	10.794	(0.942)	1115259	40.0000	44.79
	23 Bis(2-Chloroethoxy)methane	93	11.010	11.003	(0.959)	294626	20.0000	20.91
	24 Benzoic acid	105	11.150	10.887	(0.971)	1424206	80.0000	79.93(M)
	25 2,4-Dichlorophenol	162	11.212	11.197	(0.976)	829486	40.0000	40.02
	26 1,2,4-Trichlorobenzene	180	11.398	11.390	(0.993)	402018	20.0000	23.06
*	27 Naphthalene-d8	136	11.482	11.475	(1.000)	176821	4.00000	
	28 Naphthalene	128	11.529	11.514	(1.004)	1023956	20.0000	23.02
	29 4-Chloroaniline	127	11.660	11.645	(1.015)	967944	40.0000	39.98
	30 Hexachlorobutadiene	225	11.892	11.892	(1.036)	322763	20.0000	23.45
	31 4-Chloro-3-methylphenol	107	12.619	12.604	(1.099)	1097198	40.0000	40.00
	32 2-Methylnaphthalene	142	12.929	12.914	(1.126)	897394	20.0000	24.74
	33 Hexachlorocyclopentadiene	237	13.401	13.386	(0.887)	864187	40.0000	40.00
	34 2,4,6-Trichlorophenol	196	13.548	13.533	(0.897)	784403	40.0000	40.02

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
35	2,4,5-Trichlorophenol	196	13.618	13.610	(0.901)	894309	40.0000	40.02
$ 36	2-Fluorobiphenyl	172	13.710	13.703	(0.907)	893039	20.0000	22.44
37	2-Chloronaphthalene	162	13.927	13.912	(0.922)	784695	20.0000	23.70
38	2-Nitroaniline	65	14.190	14.160	(0.939)	877698	40.0000	45.18
39	Dimethylphthalate	163	14.624	14.601	(0.968)	955093	20.0000	22.29
40	Acenaphthylene	152	14.794	14.779	(0.979)	1208301	20.0000	23.31
41	2,6-Dinitrotoluene	165	14.763	14.740	(0.977)	482833	40.0000	49.09
* 42	Acenaphthene-d10	164	15.111	15.096	(1.000)	111844	4.00000	
43	3-Nitroaniline	138	15.049	15.011	(0.996)	444312	40.0000	46.79
44	Acenaphthene	153	15.181	15.158	(1.005)	823348	20.0000	23.48
45	2,4-Dinitrophenol	184	15.266	15.227	(1.010)	1176244	80.0000	79.95
46	Dibenzofuran	168	15.505	15.490	(1.026)	1214911	20.0000	23.91
47	4-Nitrophenol	109	15.359	15.328	(1.016)	908010	40.0000	40.02
48	2,4-Dinitrotoluene	165	15.575	15.544	(1.031)	653207	40.0000	47.85
50	Diethylphthalate	149	16.093	16.062	(1.065)	1376165	20.0000	22.10
49	Fluorene	166	16.217	16.202	(1.073)	1778473	20.0000	20.00
51	4-Chlorophenyl-phenylether	204	16.209	16.202	(1.073)	945877	20.0000	26.35
52	4-Nitroaniline	138	16.332	16.271	(1.081)	505986	40.0000	44.87
53	4,6-Dinitro-2-methylphenol	198	16.417	16.379	(0.905)	1433547	80.0000	79.95
54	N-Nitrosodiphenylamine	169	16.463	16.441	(0.907)	846480	20.0000	23.26
$ 55	2,4,6-Tribromophenol	330	16.749	16.741	(1.108)	359040	30.0000	30.03
56	4-Bromophenyl-phenylether	248	17.211	17.204	(0.948)	409495	20.0000	24.14
57	Hexachlorobenzene	284	17.528	17.513	(0.966)	473568	20.0000	24.46
58	Pentachlorophenol	266	17.884	17.869	(0.986)	647723	40.0000	39.99
* 59	Phenanthrene-d10	188	18.147	18.132	(1.000)	215084	4.00000	
60	Phenanthrene	178	18.194	18.179	(1.003)	1388241	20.0000	23.92
61	Anthracene	178	18.287	18.279	(1.008)	1361827	20.0000	24.56
62	Carbazole	167	18.612	18.604	(1.026)	1226414	20.0000	24.09
63	Di-n-butylphthalate	149	19.424	19.409	(1.070)	1971325	20.0000	24.97
64	Fluoranthene	202	20.584	20.569	(0.887)	1645902	20.0000	20.00
65	Pyrene	202	21.010	20.995	(0.906)	1615156	20.0000	20.00
$ 66	Terphenyl-d14	244	21.296	21.289	(0.918)	1355815	20.0000	20.01
67	Butylbenzylphthalate	149	22.225	22.210	(0.958)	814908	20.0000	20.00
68	Benzo(a)anthracene	228	23.170	23.155	(0.999)	1362369	20.0000	25.90
* 69	Chrysene-d12	240	23.201	23.186	(1.000)	144210	4.00000	
70	3,3'-Dichlorobenzidine	252	23.131	23.108	(0.997)	3088017	60.0000	59.92
71	Chrysene	228	23.247	23.232	(1.002)	1879861	20.0000	20.00
72	bis(2-Ethylhexyl)phthalate	149	23.247	23.240	(0.959)	1630456	20.0000	20.01
* 134	Di-n-octylphthalate-d4	153	24.231	24.215	(1.000)	349093	4.00000	
73	Di-n-octylphthalate	149	24.238	24.231	(1.000)	1777365	20.0000	20.16
74	Benzo(b)fluoranthene	252	25.036	25.021	(0.971)	1099942	20.0000	25.48
75	Benzo(k)fluoranthene	252	25.082	25.059	(0.973)	1157466	20.0000	26.19
76	Benzo(a)pyrene	252	25.678	25.648	(0.996)	915971	20.0000	24.83
* 77	Perylene-d12	264	25.787	25.772	(1.000)	122857	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.406	28.367	(1.102)	1183135	20.0000	25.39
79	Dibenzo(a,h)anthracene	278	28.406	28.367	(1.102)	1045064	20.0000	26.04
80	Benzo(g,h,i)perylene	276	29.167	29.105	(1.131)	784007	20.0000	22.72
90	N-Nitrosodimethylamine	74	4.581	4.558	(0.510)	358390	40.0000	47.06
91	Aniline	93	8.444	8.428	(0.940)	773534	40.0000	44.84
93	Benzidine	184	20.817	20.801	(0.897)	930578	40.0000	38.16
103	Pyridine	79	4.581	4.597	(0.510)	553321	20.0000	25.20
105	1-methylnaphthalene	142	13.153	13.138	(1.146)	846341	20.0000	24.03
111	Azobenzene (1,2-DP-Hydrazine)	77	16.541	16.518	(1.095)	1972605	20.0000	22.01
187	Total Benzofluoranthenes	252	25.082	25.021	(0.973)	2174020	40.0000	51.73

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	15.838	15.830	(1.048)	342613	20.0000	19.95

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282302.D
Lab Smp Id: SLA0338-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	46969	-11.48
27 Naphthalene-d8	202004	101002	404008	176821	-12.47
42 Acenaphthene-d10	124451	62226	248902	111844	-10.13
59 Phenanthrene-d10	239860	119930	479720	215084	-10.33
69 Chrysene-d12	191274	95637	382548	144210	-24.61
134 Di-n-octylphthala	341876	170938	683752	349093	2.11
77 Perylene-d12	162367	81184	324734	122857	-24.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.99	-0.00
27 Naphthalene-d8	11.48	10.98	11.98	11.48	0.07
42 Acenaphthene-d10	15.10	14.60	15.60	15.11	0.05
59 Phenanthrene-d10	18.14	17.64	18.64	18.15	0.04
69 Chrysene-d12	23.19	22.69	23.69	23.20	0.03
134 Di-n-octylphthala	24.22	23.72	24.72	24.23	0.03
77 Perylene-d12	25.77	25.27	26.27	25.79	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282302.D

Lab ID: SLA0338-CAL7
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 16:05

RT	CO-ELUTION COMPOUNDS
28.406	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
28.406	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.971	0.949	0.0223	Benzoic acid

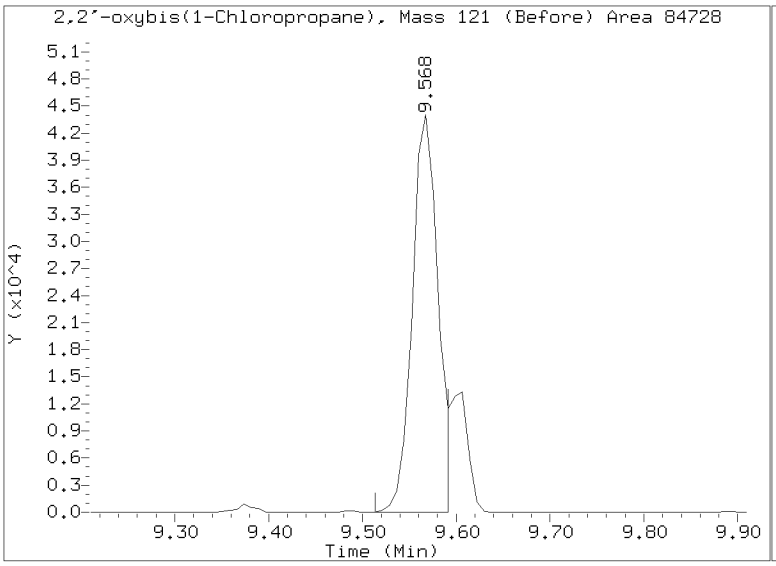
RRT check based on Ccal File: NT1401282308.D

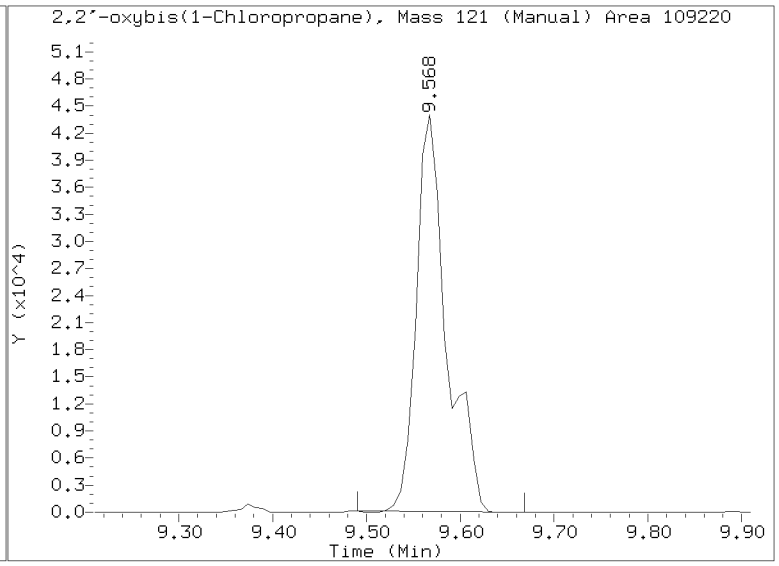
On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

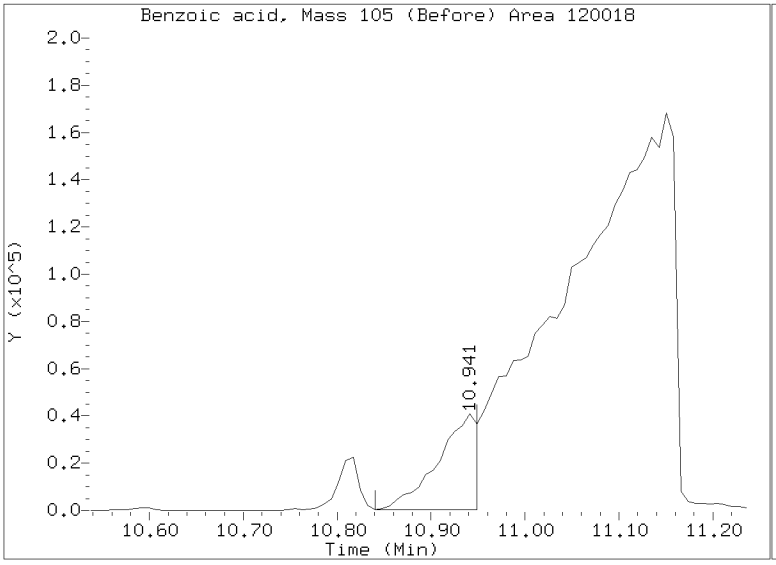
* Only compounds listed in the work order have been verified by the analyst *

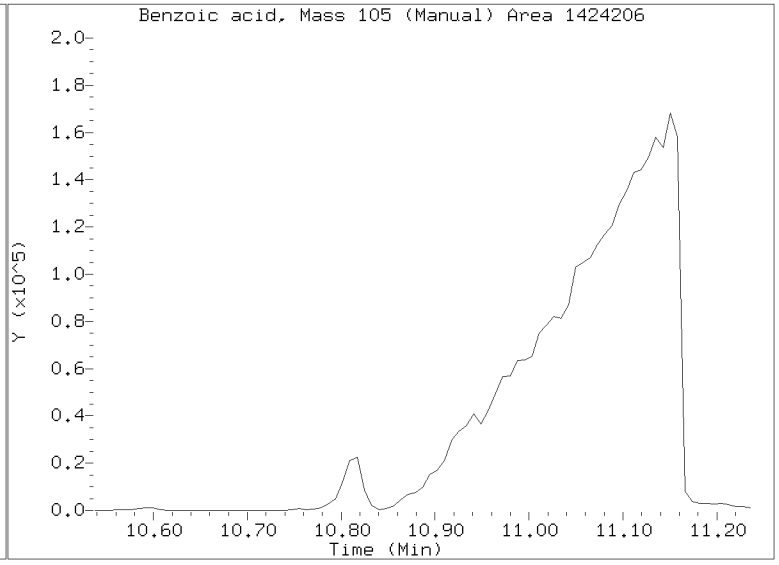
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230128.b/NT1401282302.D
Injection Date: 28-JAN-2023 16:05
Lab ID:SLA0338-CAL7 Client ID:
Report Date: 01/31/2023 13:35





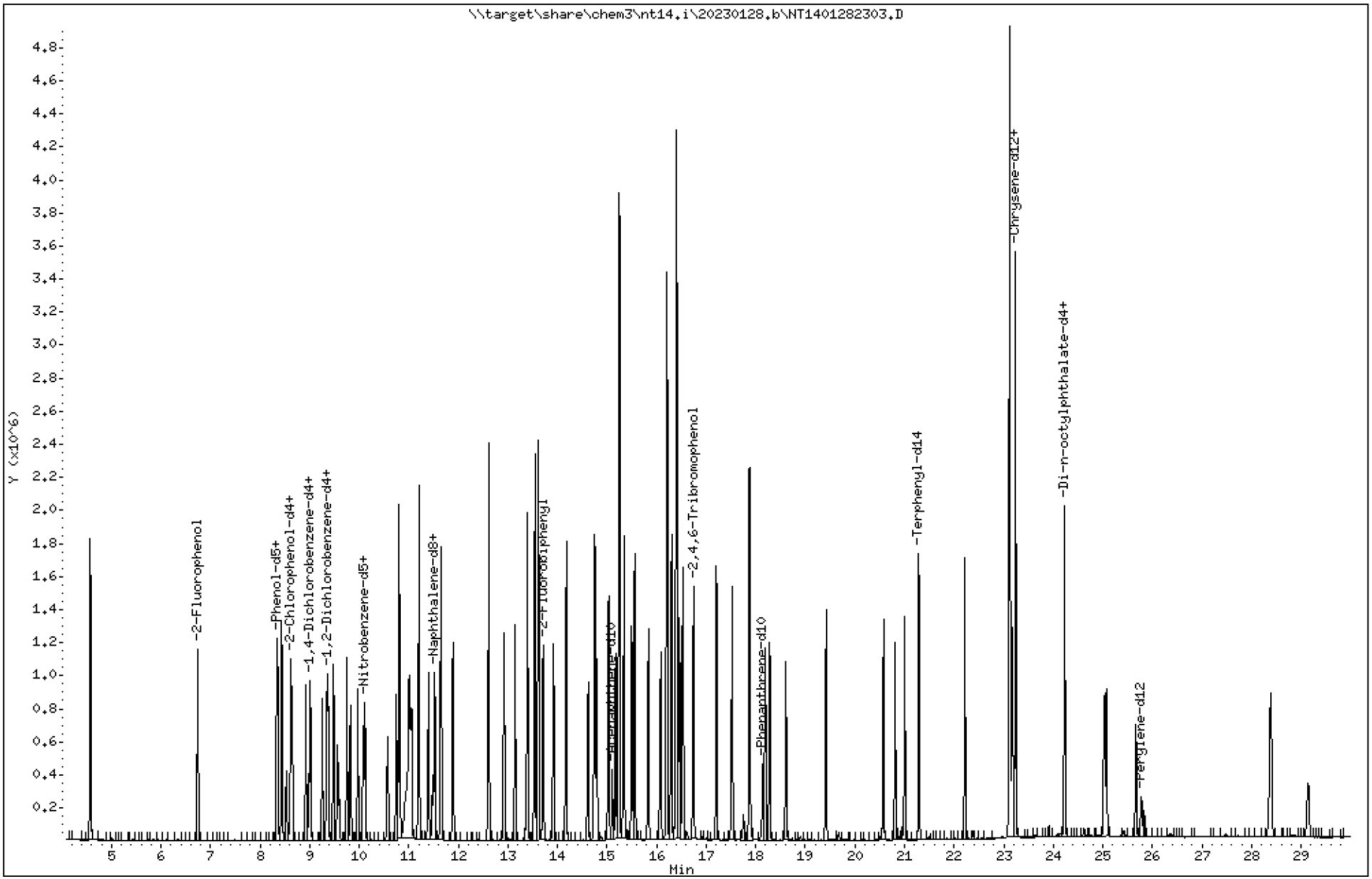




Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282303.D
Date : 28-JAN-2023 16:41
Client ID:
Sample Info: SLA0338-CAL6

Instrument: nt14.i
Operator: JGR
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230128.b\NT1401282303.D
Lab Smp Id: SLA0338-CAL6
Inj Date : 28-JAN-2023 16:41 MS Autotune Date: 17-MAY-2011 01:22
Operator : JGR Inst ID: nt14.i
Smp Info : SLA0338-CAL6
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 16:41 Cal File: NT1401282303.D
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.744	6.744	(0.751)	191094	15.0000	14.15
$	2 Phenol-d5	99	8.343	8.328	(0.929)	246323	15.0000	13.89
	3 Phenol	94	8.366	8.351	(0.931)	204797	10.0000	9.413
$	5 2-Chlorophenol-d4	132	8.621	8.614	(0.960)	242668	15.0000	14.14
	4 Bis(2-Chloroethyl)ether	93	8.529	8.529	(0.949)	116264	10.0000	9.291
	6 2-Chlorophenol	128	8.644	8.637	(0.962)	169154	10.0000	9.364
	7 1,3-Dichlorobenzene	146	8.923	8.915	(0.993)	195225	10.0000	9.678
*	8 1,4-Dichlorobenzene-d4	152	8.985	8.978	(1.000)	50264	4.00000	
	9 1,4-Dichlorobenzene	146	9.016	9.009	(1.003)	190236	10.0000	9.333
$	10 1,2-Dichlorobenzene-d4	152	9.350	9.342	(1.041)	112237	10.0000	9.218
	12 1,2-Dichlorobenzene	146	9.373	9.366	(1.043)	185235	10.0000	9.243
	11 Benzyl alcohol	108	9.257	9.249	(1.030)	101513	10.0000	9.464
	14 2,2'-oxybis(1-Chloropropane)	121	9.559	9.560	(1.064)	50016	10.0000	8.913(M)
	13 2-Methylphenol	108	9.482	9.474	(1.055)	159747	10.0000	9.562
	17 Hexachloroethane	117	9.971	9.963	(1.110)	118359	10.0000	9.626
	16 N-Nitroso-di-n-propylamine	70	9.823	9.808	(1.093)	137752	10.0000	9.450
	15 4-Methylphenol	108	9.754	9.746	(1.086)	181250	10.0000	9.612
$	18 Nitrobenzene-d5	82	10.079	10.072	(0.878)	264578	10.0000	10.34
	19 Nitrobenzene	77	10.118	10.111	(0.881)	255723	10.0000	10.26
	20 Isophorone	82	10.576	10.561	(0.921)	273246	10.0000	9.691
	21 2-Nitrophenol	139	10.747	10.747	(0.936)	99836	10.0000	10.04
	22 2,4-Dimethylphenol	107	10.809	10.794	(0.941)	501652	20.0000	19.93
	23 Bis(2-Chloroethoxy)methane	93	11.010	11.003	(0.959)	146417	10.0000	10.28
	24 Benzoic acid	105	11.057	10.887	(0.963)	652289	40.0000	40.28
	25 2,4-Dichlorophenol	162	11.204	11.197	(0.976)	337219	20.0000	19.73
	26 1,2,4-Trichlorobenzene	180	11.398	11.390	(0.993)	178102	10.0000	10.10
*	27 Naphthalene-d8	136	11.482	11.475	(1.000)	178786	4.00000	
	28 Naphthalene	128	11.521	11.514	(1.003)	451911	10.0000	10.05
	29 4-Chloroaniline	127	11.652	11.645	(1.015)	417059	20.0000	20.10
	30 Hexachlorobutadiene	225	11.892	11.892	(1.036)	144205	10.0000	10.36
	31 4-Chloro-3-methylphenol	107	12.612	12.604	(1.098)	461789	20.0000	19.96
	32 2-Methylnaphthalene	142	12.921	12.914	(1.125)	382982	10.0000	10.44
	33 Hexachlorocyclopentadiene	237	13.393	13.386	(0.887)	352943	20.0000	19.89
	34 2,4,6-Trichlorophenol	196	13.540	13.533	(0.897)	308573	20.0000	19.69

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	35	2,4,5-Trichlorophenol	196	13.618	13.610	(0.902)	344065	20.0000	19.71
$	36	2-Fluorobiphenyl	172	13.710	13.703	(0.908)	390349	10.0000	9.573
	37	2-Chloronaphthalene	162	13.919	13.912	(0.922)	343821	10.0000	10.13
	38	2-Nitroaniline	65	14.175	14.160	(0.939)	427563	20.0000	21.48
	39	Dimethylphthalate	163	14.616	14.601	(0.968)	449064	10.0000	10.23
	40	Acenaphthylene	152	14.786	14.779	(0.979)	528686	10.0000	9.956
	41	2,6-Dinitrotoluene	165	14.755	14.740	(0.977)	207140	20.0000	20.56
*	42	Acenaphthene-d10	164	15.103	15.096	(1.000)	114572	4.00000	
	43	3-Nitroaniline	138	15.034	15.011	(0.995)	195314	20.0000	20.08
	44	Acenaphthene	153	15.173	15.158	(1.005)	359612	10.0000	10.01
	45	2,4-Dinitrophenol	184	15.250	15.227	(1.010)	457005	40.0000	40.32
	46	Dibenzofuran	168	15.498	15.490	(1.026)	534989	10.0000	10.28
	47	4-Nitrophenol	109	15.343	15.328	(1.016)	418146	20.0000	19.72
	48	2,4-Dinitrotoluene	165	15.560	15.544	(1.030)	293520	20.0000	20.99
	50	Diethylphthalate	149	16.078	16.062	(1.064)	647895	10.0000	10.16
	49	Fluorene	166	16.209	16.202	(1.073)	720768	10.0000	9.944
	51	4-Chlorophenyl-phenylether	204	16.209	16.202	(1.073)	382234	10.0000	10.40
	52	4-Nitroaniline	138	16.302	16.271	(1.079)	241825	20.0000	20.94
	53	4,6-Dinitro-2-methylphenol	198	16.402	16.379	(0.904)	577584	40.0000	40.24
	54	N-Nitrosodiphenylamine	169	16.456	16.441	(0.907)	362303	10.0000	9.935
$	55	2,4,6-Tribromophenol	330	16.741	16.741	(1.108)	148683	15.0000	14.63
	56	4-Bromophenyl-phenylether	248	17.204	17.204	(0.948)	178110	10.0000	10.48
	57	Hexachlorobenzene	284	17.520	17.513	(0.966)	205883	10.0000	10.61
	58	Pentachlorophenol	266	17.877	17.869	(0.985)	241004	20.0000	20.04
*	59	Phenanthrene-d10	188	18.140	18.132	(1.000)	215512	4.00000	
	60	Phenanthrene	178	18.186	18.179	(1.003)	600343	10.0000	10.32
	61	Anthracene	178	18.279	18.279	(1.008)	590069	10.0000	10.62
	62	Carbazole	167	18.604	18.604	(1.026)	529742	10.0000	10.38
	63	Di-n-butylphthalate	149	19.416	19.409	(1.070)	872349	10.0000	11.03
	64	Fluoranthene	202	20.577	20.569	(0.887)	709684	10.0000	9.950
	65	Pyrene	202	21.002	20.995	(0.906)	707442	10.0000	9.997
$	66	Terphenyl-d14	244	21.289	21.289	(0.918)	582455	10.0000	9.857
	67	Butylbenzylphthalate	149	22.218	22.210	(0.958)	384047	10.0000	10.02
	68	Benzo(a)anthracene	228	23.162	23.155	(0.999)	633500	10.0000	10.46
*	69	Chrysene-d12	240	23.193	23.186	(1.000)	166017	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.124	23.108	(0.997)	983338	30.0000	31.42
	71	Chrysene	228	23.240	23.232	(1.002)	662462	10.0000	10.01
	72	bis(2-Ethylhexyl)phthalate	149	23.240	23.240	(0.959)	588097	10.0000	9.905
*	134	Di-n-octylphthalate-d4	153	24.223	24.215	(1.000)	324384	4.00000	
	73	Di-n-octylphthalate	149	24.231	24.231	(1.000)	774947	10.0000	9.462
	74	Benzo(b)fluoranthene	252	25.028	25.021	(0.971)	531174	10.0000	10.51
	75	Benzo(k)fluoranthene	252	25.074	25.059	(0.973)	528381	10.0000	10.21
	76	Benzo(a)pyrene	252	25.671	25.648	(0.996)	443298	10.0000	10.27
*	77	Perylene-d12	264	25.779	25.772	(1.000)	143815	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.383	28.367	(1.101)	576816	10.0000	10.57
	79	Dibenzo(a,h)anthracene	278	28.390	28.367	(1.101)	492179	10.0000	10.48
	80	Benzo(g,h,i)perylene	276	29.144	29.105	(1.131)	410305	10.0000	10.16
	90	N-Nitrosodimethylamine	74	4.566	4.558	(0.508)	144817	20.0000	17.77
	91	Aniline	93	8.436	8.428	(0.939)	362022	20.0000	19.61
	93	Benzidine	184	20.809	20.801	(0.897)	456176	20.0000	16.25
	103	Pyridine	79	4.581	4.597	(0.510)	218023	10.0000	9.279
	105	1-methylnaphthalene	142	13.146	13.138	(1.145)	378047	10.0000	10.62
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.533	16.518	(1.095)	934197	10.0000	10.17
	187	Total Benzofluoranthenes	252	25.074	25.021	(0.973)	1014353	20.0000	20.62

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	15.830	15.830	(1.048)	163404	10.0000	10.30

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282303.D
Lab Smp Id: SLA0338-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	50264	-5.27
27 Naphthalene-d8	202004	101002	404008	178786	-11.49
42 Acenaphthene-d10	124451	62226	248902	114572	-7.94
59 Phenanthrene-d10	239860	119930	479720	215512	-10.15
69 Chrysene-d12	191274	95637	382548	166017	-13.20
134 Di-n-octylphthala	341876	170938	683752	324384	-5.12
77 Perylene-d12	162367	81184	324734	143815	-11.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.99	-0.00
27 Naphthalene-d8	11.48	10.98	11.98	11.48	0.07
42 Acenaphthene-d10	15.10	14.60	15.60	15.10	-0.00
59 Phenanthrene-d10	18.14	17.64	18.64	18.14	-0.00
69 Chrysene-d12	23.19	22.69	23.69	23.19	-0.00
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	-0.00
77 Perylene-d12	25.77	25.27	26.27	25.78	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282303.D

Lab ID: SLA0338-CAL6
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 16:41

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.963	0.949	0.0142	Benzoic acid

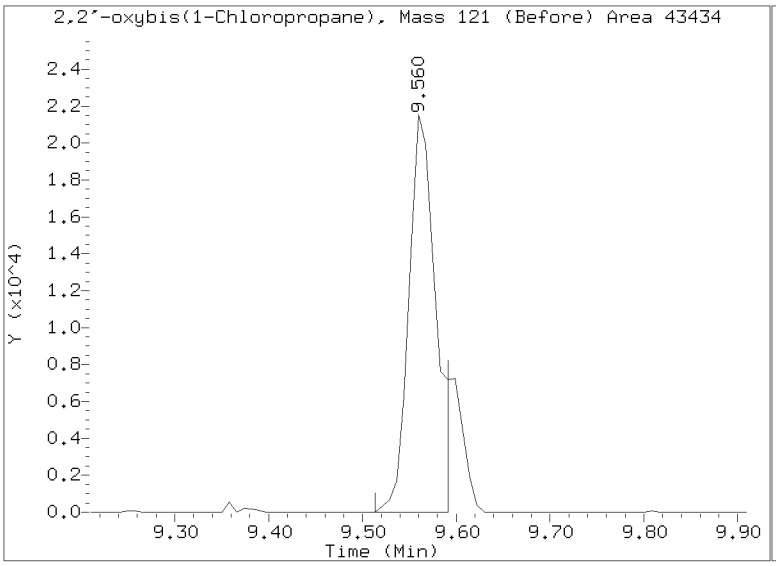
RRT check based on Ccal File: NT1401282308.D

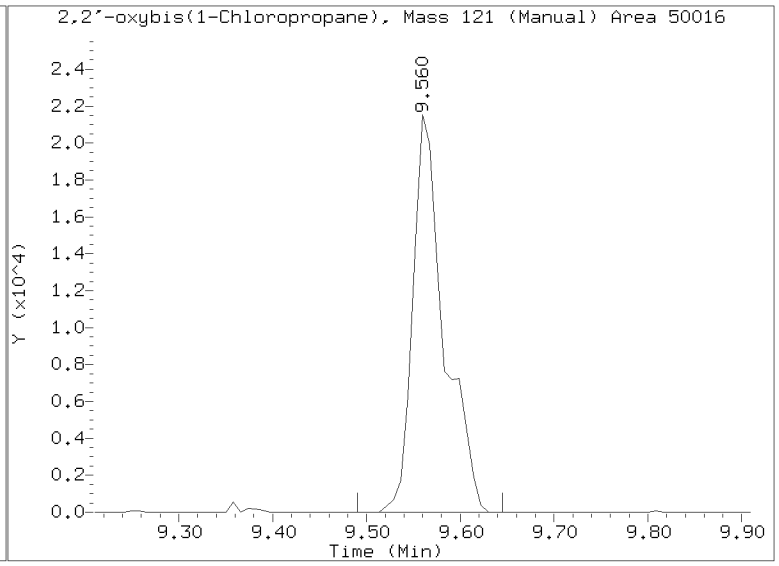
On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230128.b/NT1401282303.D
Injection Date: 28-JAN-2023 16:41
Lab ID:SLA0338-CAL6 Client ID:
Report Date: 01/31/2023 13:35

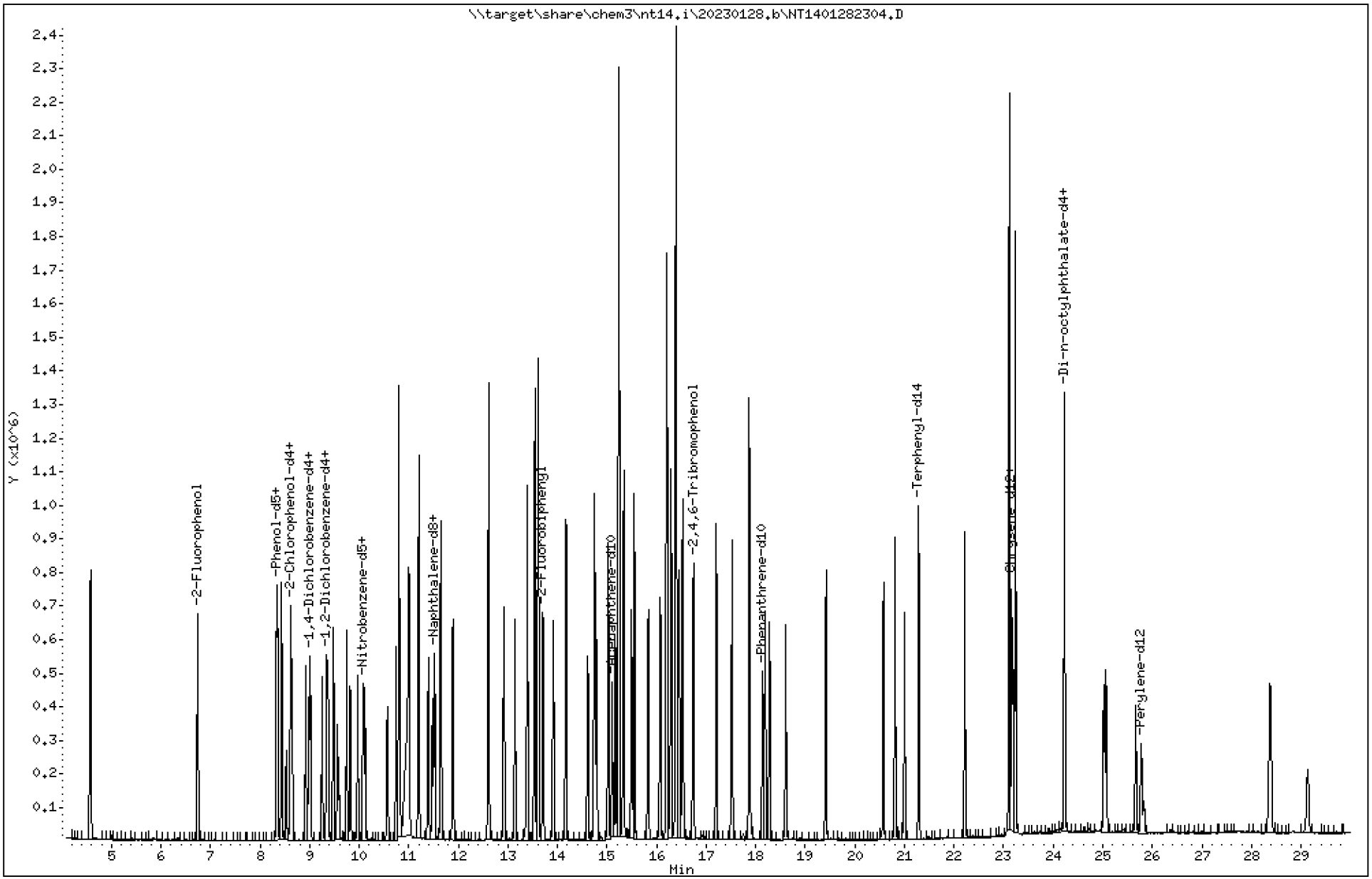




Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282304.D
Date : 28-JAN-2023 17:17
Client ID:
Sample Info: SLA0338-CAL5

Instrument: nt14.i
Operator: JGR
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230128.b\NT1401282304.D
Lab Smp Id: SLA0338-CAL5
Inj Date : 28-JAN-2023 17:17 MS Autotune Date: 17-MAY-2011 01:22
Operator : JGR Inst ID: nt14.i
Smp Info : SLA0338-CAL5
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 17:17 Cal File: NT1401282304.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.744	6.744	(0.751)	114374	7.50000	8.026
$	2 Phenol-d5	99	8.336	8.328	(0.928)	144071	7.50000	7.694
	3 Phenol	94	8.359	8.351	(0.930)	118753	5.00000	5.171
$	5 2-Chlorophenol-d4	132	8.614	8.614	(0.959)	142048	7.50000	7.843
	4 Bis(2-Chloroethyl)ether	93	8.529	8.529	(0.949)	65194	5.00000	4.935
	6 2-Chlorophenol	128	8.645	8.637	(0.962)	98197	5.00000	5.149
	7 1,3-Dichlorobenzene	146	8.923	8.915	(0.993)	109227	5.00000	5.129
*	8 1,4-Dichlorobenzene-d4	152	8.985	8.978	(1.000)	53060	4.00000	
	9 1,4-Dichlorobenzene	146	9.016	9.009	(1.003)	110035	5.00000	5.114
$	10 1,2-Dichlorobenzene-d4	152	9.342	9.342	(1.040)	64702	5.00000	5.034
	12 1,2-Dichlorobenzene	146	9.373	9.366	(1.043)	108977	5.00000	5.151
	11 Benzyl alcohol	108	9.249	9.249	(1.029)	58016	5.00000	5.124
	14 2,2'-oxybis(1-Chloropropane)	121	9.567	9.560	(1.065)	30966	5.00000	5.227(M)
	13 2-Methylphenol	108	9.482	9.474	(1.055)	94002	5.00000	5.330
	17 Hexachloroethane	117	9.971	9.963	(1.110)	66097	5.00000	5.092
	16 N-Nitroso-di-n-propylamine	70	9.824	9.808	(1.093)	78902	5.00000	5.127
	15 4-Methylphenol	108	9.746	9.746	(1.085)	103634	5.00000	5.207
$	18 Nitrobenzene-d5	82	10.080	10.072	(0.878)	162166	5.00000	5.611
	19 Nitrobenzene	77	10.118	10.111	(0.882)	145204	5.00000	5.155
	20 Isophorone	82	10.569	10.561	(0.921)	175819	5.00000	5.519
	21 2-Nitrophenol	139	10.747	10.747	(0.937)	56074	5.00000	5.149
	22 2,4-Dimethylphenol	107	10.801	10.794	(0.941)	314317	10.0000	11.05
	23 Bis(2-Chloroethoxy)methane	93	11.003	11.003	(0.959)	85413	5.00000	5.307
	24 Benzoic acid	105	11.010	10.887	(0.960)	360678	20.0000	20.55(M)
	25 2,4-Dichlorophenol	162	11.204	11.197	(0.976)	192602	10.0000	10.59
	26 1,2,4-Trichlorobenzene	180	11.390	11.390	(0.993)	97882	5.00000	4.914
*	27 Naphthalene-d8	136	11.475	11.475	(1.000)	202004	4.00000	
	28 Naphthalene	128	11.521	11.514	(1.004)	254239	5.00000	5.002
	29 4-Chloroaniline	127	11.645	11.645	(1.015)	222397	10.0000	10.05
	30 Hexachlorobutadiene	225	11.892	11.892	(1.036)	78703	5.00000	5.005
	31 4-Chloro-3-methylphenol	107	12.612	12.604	(1.099)	254380	10.0000	10.32
	32 2-Methylnaphthalene	142	12.921	12.914	(1.126)	204710	5.00000	4.941
	33 Hexachlorocyclopentadiene	237	13.393	13.386	(0.887)	188162	10.0000	10.41
	34 2,4,6-Trichlorophenol	196	13.540	13.533	(0.897)	171739	10.0000	10.76

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
35	2,4,5-Trichlorophenol	196	13.610	13.610	(0.901)	188489	10.0000	10.65
$ 36	2-Fluorobiphenyl	172	13.711	13.703	(0.908)	233109	5.00000	5.263
37	2-Chloronaphthalene	162	13.912	13.912	(0.921)	185638	5.00000	5.038
38	2-Nitroaniline	65	14.167	14.160	(0.938)	227556	10.0000	10.53
39	Dimethylphthalate	163	14.608	14.601	(0.967)	250716	5.00000	5.258
40	Acenaphthylene	152	14.787	14.779	(0.979)	289825	5.00000	5.024
41	2,6-Dinitrotoluene	165	14.748	14.740	(0.976)	112678	10.0000	10.30
* 42	Acenaphthene-d10	164	15.104	15.096	(1.000)	124451	4.00000	
43	3-Nitroaniline	138	15.026	15.011	(0.995)	106825	10.0000	10.11
44	Acenaphthene	153	15.165	15.158	(1.004)	193851	5.00000	4.968
45	2,4-Dinitrophenol	184	15.235	15.227	(1.009)	233845	20.0000	20.51
46	Dibenzofuran	168	15.498	15.490	(1.026)	285711	5.00000	5.053
47	4-Nitrophenol	109	15.336	15.328	(1.015)	238341	10.0000	10.70
48	2,4-Dinitrotoluene	165	15.552	15.544	(1.030)	157462	10.0000	10.37
50	Diethylphthalate	149	16.070	16.062	(1.064)	368217	5.00000	5.314
49	Fluorene	166	16.209	16.202	(1.073)	380430	5.00000	5.164
51	4-Chlorophenyl-phenylether	204	16.201	16.202	(1.073)	194192	5.00000	4.862
52	4-Nitroaniline	138	16.294	16.271	(1.079)	130412	10.0000	10.39
53	4,6-Dinitro-2-methylphenol	198	16.394	16.379	(0.904)	306613	20.0000	20.55
54	N-Nitrosodiphenylamine	169	16.448	16.441	(0.907)	197522	5.00000	4.867
$ 55	2,4,6-Tribromophenol	330	16.741	16.741	(1.108)	85915	7.50000	8.202
56	4-Bromophenyl-phenylether	248	17.204	17.204	(0.948)	98455	5.00000	5.204
57	Hexachlorobenzene	284	17.521	17.513	(0.966)	108500	5.00000	5.025
58	Pentachlorophenol	266	17.869	17.869	(0.985)	128960	10.0000	10.40
* 59	Phenanthrene-d10	188	18.140	18.132	(1.000)	239860	4.00000	
60	Phenanthrene	178	18.186	18.179	(1.003)	332037	5.00000	5.130
61	Anthracene	178	18.279	18.279	(1.008)	323947	5.00000	5.238
62	Carbazole	167	18.604	18.604	(1.026)	294546	5.00000	5.187
63	Di-n-butylphthalate	149	19.416	19.409	(1.070)	474174	5.00000	5.386
64	Fluoranthene	202	20.577	20.569	(0.887)	392508	5.00000	5.144
65	Pyrene	202	21.002	20.995	(0.906)	385340	5.00000	5.092
$ 66	Terphenyl-d14	244	21.289	21.289	(0.918)	337190	5.00000	5.308
67	Butylbenzylphthalate	149	22.218	22.210	(0.958)	209097	5.00000	5.054
68	Benzo(a)anthracene	228	23.162	23.155	(0.999)	340419	5.00000	4.880
* 69	Chrysene-d12	240	23.193	23.186	(1.000)	191274	4.00000	
70	3,3'-Dichlorobenzidine	252	23.116	23.108	(0.997)	412239	15.0000	12.75
71	Chrysene	228	23.240	23.232	(1.002)	354886	5.00000	5.082
72	bis(2-Ethylhexyl)phthalate	149	23.240	23.240	(0.959)	306677	5.00000	5.240
* 134	Di-n-octylphthalate-d4	153	24.223	24.215	(1.000)	341876	4.00000	
73	Di-n-octylphthalate	149	24.231	24.231	(1.000)	430914	5.00000	4.992
74	Benzo(b)fluoranthene	252	25.028	25.021	(0.971)	283521	5.00000	4.969
75	Benzo(k)fluoranthene	252	25.067	25.059	(0.973)	296474	5.00000	5.075
76	Benzo(a)pyrene	252	25.663	25.648	(0.996)	251224	5.00000	5.153
* 77	Perylene-d12	264	25.772	25.772	(1.000)	162367	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.375	28.367	(1.101)	316667	5.00000	5.142
79	Dibenzo(a,h)anthracene	278	28.383	28.367	(1.101)	264259	5.00000	4.982
80	Benzo(g,h,i)perylene	276	29.136	29.105	(1.131)	231243	5.00000	5.070
90	N-Nitrosodimethylamine	74	4.558	4.558	(0.507)	84033	10.0000	9.768
91	Aniline	93	8.436	8.428	(0.939)	197484	10.0000	10.13
93	Benzidine	184	20.809	20.801	(0.897)	354132	10.0000	10.95
103	Pyridine	79	4.581	4.597	(0.510)	127756	5.00000	5.151
105	1-methylnaphthalene	142	13.146	13.138	(1.146)	198195	5.00000	4.926
111	Azobenzene (1,2-DP-Hydrazine)	77	16.525	16.518	(1.094)	524379	5.00000	5.257
187	Total Benzofluoranthenes	252	25.067	25.021	(0.973)	556405	10.0000	10.02

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	15.830	15.830	(1.048)	79385	5.00000	4.822

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282304.D
Lab Smp Id: SLA0338-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	53060	0.00
27 Naphthalene-d8	202004	101002	404008	202004	0.00
42 Acenaphthene-d10	124451	62226	248902	124451	0.00
59 Phenanthrene-d10	239860	119930	479720	239860	0.00
69 Chrysene-d12	191274	95637	382548	191274	0.00
134 Di-n-octylphthala	341876	170938	683752	341876	0.00
77 Perylene-d12	162367	81184	324734	162367	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.99	0.00
27 Naphthalene-d8	11.48	10.98	11.98	11.48	0.00
42 Acenaphthene-d10	15.10	14.60	15.60	15.10	0.00
59 Phenanthrene-d10	18.14	17.64	18.64	18.14	0.00
69 Chrysene-d12	23.19	22.69	23.69	23.19	0.00
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	0.00
77 Perylene-d12	25.77	25.27	26.27	25.77	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282304.D

Lab ID: SLA0338-CAL5
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 17:17

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.960	0.949	0.0108	Benzoic acid

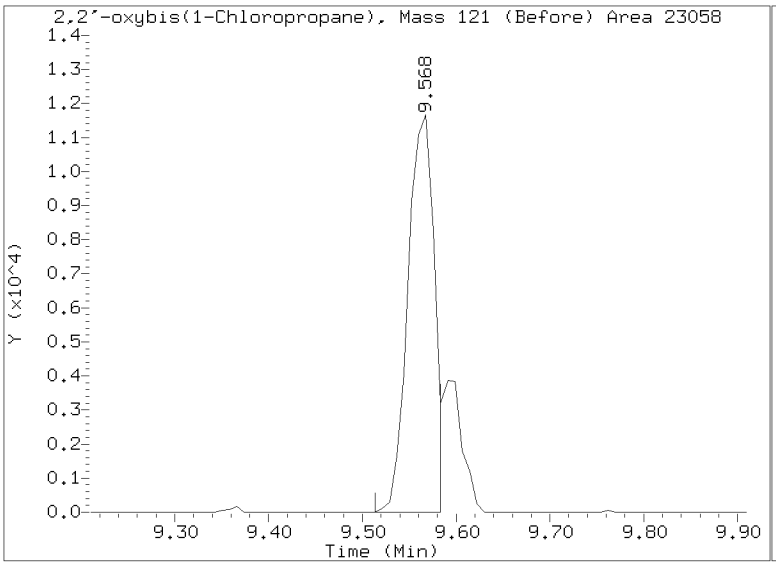
RRT check based on Ccal File: NT1401282308.D

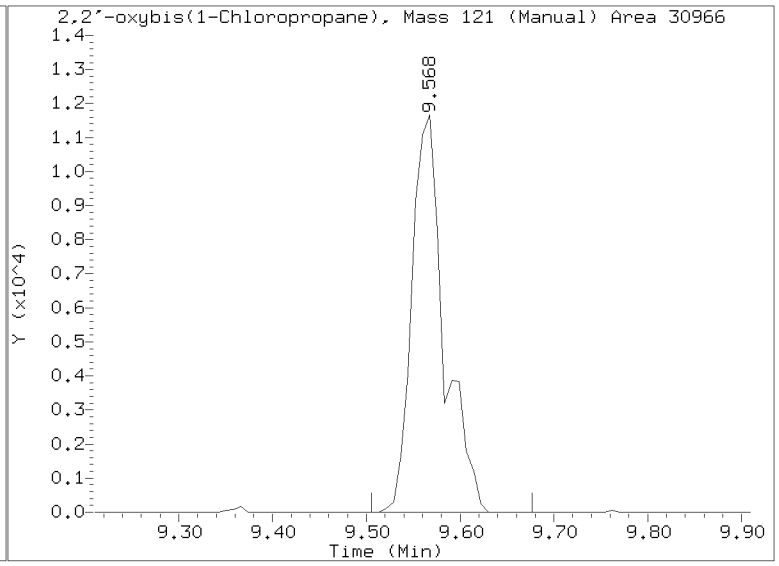
On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

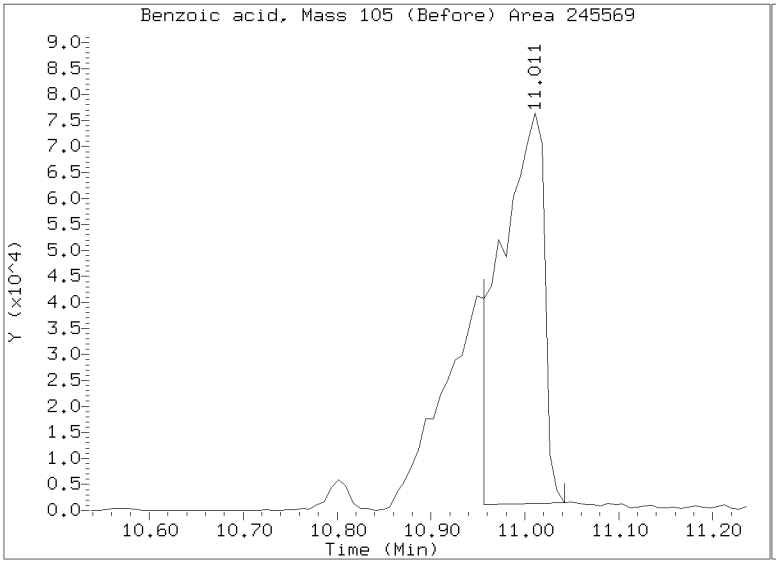
* Only compounds listed in the work order have been verified by the analyst *

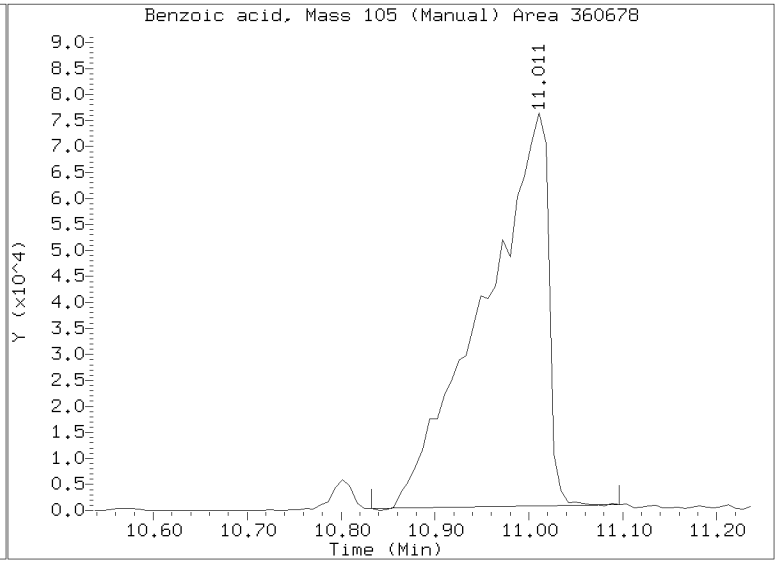
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230128.b/NT1401282304.D
Injection Date: 28-JAN-2023 17:17
Lab ID:SLA0338-CAL5 Client ID:
Report Date: 01/31/2023 13:35









Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282305.D

Date : 28-JAN-2023 17:53

Client ID:

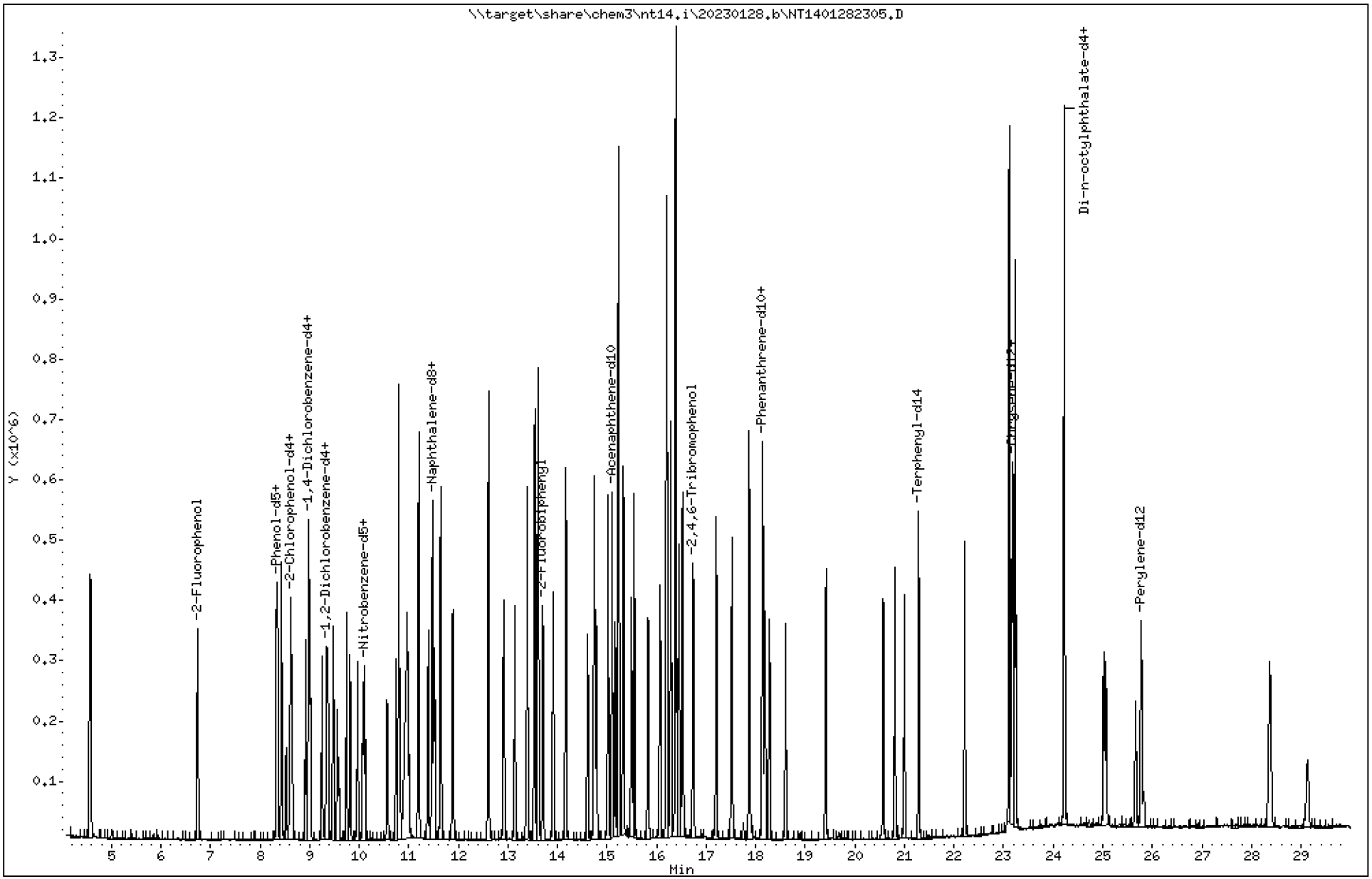
Sample Info: SLA0338-CAL4

Column phase: ZB-5msi

Instrument: nt14.i

Operator: JGR

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230128.b\NT1401282305.D
Lab Smp Id: SLA0338-CAL4
Inj Date : 28-JAN-2023 17:53 MS Autotune Date: 17-MAY-2011 01:22
Operator : JGR Inst ID: nt14.i
Smp Info : SLA0338-CAL4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 17:53 Cal File: NT1401282305.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.744	6.744	(0.751)	65936	3.75000	3.480
$	2 Phenol-d5	99	8.336	8.328	(0.928)	82534	3.75000	3.315
	3 Phenol	94	8.359	8.351	(0.930)	68809	2.50000	2.253
$	5 2-Chlorophenol-d4	132	8.614	8.614	(0.959)	79696	3.75000	3.310
	4 Bis(2-Chloroethyl)ether	93	8.529	8.529	(0.949)	40529	2.50000	2.308
	6 2-Chlorophenol	128	8.637	8.637	(0.961)	57590	2.50000	2.271
	7 1,3-Dichlorobenzene	146	8.915	8.915	(0.992)	66266	2.50000	2.340
*	8 1,4-Dichlorobenzene-d4	152	8.985	8.978	(1.000)	70550	4.00000	
	9 1,4-Dichlorobenzene	146	9.016	9.009	(1.003)	64707	2.50000	2.262
$	10 1,2-Dichlorobenzene-d4	152	9.342	9.342	(1.040)	36423	2.50000	2.131
	12 1,2-Dichlorobenzene	146	9.373	9.366	(1.043)	63332	2.50000	2.251
	11 Benzyl alcohol	108	9.249	9.249	(1.029)	34879	2.50000	2.317
	14 2,2'-oxybis(1-Chloropropane)	121	9.560	9.560	(1.064)	17476	2.50000	2.219(M)
	13 2-Methylphenol	108	9.474	9.474	(1.054)	51997	2.50000	2.218
	17 Hexachloroethane	117	9.971	9.963	(1.110)	41007	2.50000	2.376
	16 N-Nitroso-di-n-propylamine	70	9.816	9.808	(1.092)	48541	2.50000	2.372
	15 4-Methylphenol	108	9.746	9.746	(1.085)	57672	2.50000	2.179
$	18 Nitrobenzene-d5	82	10.080	10.072	(0.878)	87987	2.50000	2.357
	19 Nitrobenzene	77	10.111	10.111	(0.881)	90228	2.50000	2.480
	20 Isophorone	82	10.561	10.561	(0.920)	99278	2.50000	2.413
	21 2-Nitrophenol	139	10.747	10.747	(0.937)	29576	2.50000	2.140
	22 2,4-Dimethylphenol	107	10.801	10.794	(0.941)	166877	5.00000	4.542
	23 Bis(2-Chloroethoxy)methane	93	11.003	11.003	(0.959)	49484	2.50000	2.380
	24 Benzoic acid	105	10.964	10.887	(0.955)	191068	10.0000	8.625
	25 2,4-Dichlorophenol	162	11.197	11.197	(0.976)	105704	5.00000	4.651
	26 1,2,4-Trichlorobenzene	180	11.390	11.390	(0.993)	60317	2.50000	2.344
*	27 Naphthalene-d8	136	11.475	11.475	(1.000)	260926	4.00000	
	28 Naphthalene	128	11.514	11.514	(1.003)	152337	2.50000	2.320
	29 4-Chloroaniline	127	11.645	11.645	(1.015)	131366	5.00000	4.722
	30 Hexachlorobutadiene	225	11.892	11.892	(1.036)	47641	2.50000	2.345
	31 4-Chloro-3-methylphenol	107	12.604	12.604	(1.098)	142617	5.00000	4.617
	32 2-Methylnaphthalene	142	12.921	12.914	(1.126)	125421	2.50000	2.343
	33 Hexachlorocyclopentadiene	237	13.393	13.386	(0.887)	104178	5.00000	4.661
	34 2,4,6-Trichlorophenol	196	13.540	13.533	(0.897)	88982	5.00000	4.527

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
35	2,4,5-Trichlorophenol	196	13.610	13.610	(0.901)	102298	5.00000	4.690
$ 36	2-Fluorobiphenyl	172	13.703	13.703	(0.907)	128916	2.50000	2.275
37	2-Chloronaphthalene	162	13.912	13.912	(0.921)	111085	2.50000	2.356
38	2-Nitroaniline	65	14.167	14.160	(0.938)	140631	5.00000	5.085
39	Dimethylphthalate	163	14.609	14.601	(0.967)	147678	2.50000	2.421
40	Acenaphthylene	152	14.787	14.779	(0.979)	174438	2.50000	2.364
41	2,6-Dinitrotoluene	165	14.740	14.740	(0.976)	62863	5.00000	4.489
* 42	Acenaphthene-d10	164	15.104	15.096	(1.000)	159226	4.00000	
43	3-Nitroaniline	138	15.019	15.011	(0.994)	64560	5.00000	4.776
44	Acenaphthene	153	15.166	15.158	(1.004)	117212	2.50000	2.348
45	2,4-Dinitrophenol	184	15.235	15.227	(1.009)	116114	10.0000	8.283
46	Dibenzofuran	168	15.498	15.490	(1.026)	168600	2.50000	2.331
47	4-Nitrophenol	109	15.328	15.328	(1.015)	127325	5.00000	4.563
48	2,4-Dinitrotoluene	165	15.552	15.544	(1.030)	93472	5.00000	4.810
50	Diethylphthalate	149	16.070	16.062	(1.064)	213969	2.50000	2.414
49	Fluorene	166	16.209	16.202	(1.073)	217673	2.50000	2.387
51	4-Chlorophenyl-phenylether	204	16.202	16.202	(1.073)	114187	2.50000	2.235
52	4-Nitroaniline	138	16.286	16.271	(1.078)	75343	5.00000	4.693
53	4,6-Dinitro-2-methylphenol	198	16.387	16.379	(0.903)	162023	10.0000	8.532
54	N-Nitrosodiphenylamine	169	16.448	16.441	(0.907)	123439	2.50000	2.306
$ 55	2,4,6-Tribromophenol	330	16.741	16.741	(1.108)	45158	3.75000	3.485
56	4-Bromophenyl-phenylether	248	17.204	17.204	(0.948)	58099	2.50000	2.329
57	Hexachlorobenzene	284	17.521	17.513	(0.966)	66053	2.50000	2.320
58	Pentachlorophenol	266	17.869	17.869	(0.985)	64929	5.00000	4.139
* 59	Phenanthrene-d10	188	18.140	18.132	(1.000)	316277	4.00000	
60	Phenanthrene	178	18.186	18.179	(1.003)	190108	2.50000	2.228
61	Anthracene	178	18.279	18.279	(1.008)	187124	2.50000	2.295
62	Carbazole	167	18.604	18.604	(1.026)	171812	2.50000	2.295
63	Di-n-butylphthalate	149	19.416	19.409	(1.070)	270512	2.50000	2.330
64	Fluoranthene	202	20.569	20.569	(0.887)	222391	2.50000	2.387
65	Pyrene	202	20.995	20.995	(0.906)	216203	2.50000	2.339
$ 66	Terphenyl-d14	244	21.289	21.289	(0.918)	179807	2.50000	2.325
67	Butylbenzylphthalate	149	22.210	22.210	(0.958)	119310	2.50000	2.349
68	Benzo(a)anthracene	228	23.163	23.155	(0.999)	200808	2.50000	2.275
* 69	Chrysene-d12	240	23.186	23.186	(1.000)	242021	4.00000	
70	3,3'-Dichlorobenzidine	252	23.116	23.108	(0.997)	235117	7.50000	5.933
71	Chrysene	228	23.232	23.232	(1.002)	196033	2.50000	2.310
72	bis(2-Ethylhexyl)phthalate	149	23.240	23.240	(0.959)	166290	2.50000	2.330
* 134	Di-n-octylphthalate-d4	153	24.223	24.215	(1.000)	431998	4.00000	
73	Di-n-octylphthalate	149	24.231	24.231	(1.000)	253991	2.50000	2.329
74	Benzo(b)fluoranthene	252	25.021	25.021	(0.971)	168533	2.50000	2.248
75	Benzo(k)fluoranthene	252	25.067	25.059	(0.973)	166748	2.50000	2.172
76	Benzo(a)pyrene	252	25.663	25.648	(0.996)	143809	2.50000	2.245
* 77	Perylene-d12	264	25.772	25.772	(1.000)	213390	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.367	28.367	(1.101)	191131	2.50000	2.361
79	Dibenzo(a,h)anthracene	278	28.383	28.367	(1.101)	158575	2.50000	2.275
80	Benzo(g,h,i)perylene	276	29.129	29.105	(1.130)	139466	2.50000	2.327
90	N-Nitrosodimethylamine	74	4.558	4.558	(0.507)	50069	5.00000	4.377
91	Aniline	93	8.428	8.428	(0.938)	120561	5.00000	4.652
93	Benzidine	184	20.801	20.801	(0.897)	176559	5.00000	4.314
103	Pyridine	79	4.574	4.597	(0.509)	74257	2.50000	2.252
105	1-methylnaphthalene	142	13.146	13.138	(1.146)	123807	2.50000	2.382
111	Azobenzene (1,2-DP-Hydrazine)	77	16.525	16.518	(1.094)	317065	2.50000	2.484
187	Total Benzofluoranthenes	252	25.021	25.021	(0.971)	322490	5.00000	4.418

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	15.830	15.830	(1.048)	42555	2.50000	2.063

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282305.D
Lab Smp Id: SLA0338-CAL4
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	70550	32.96
27 Naphthalene-d8	202004	101002	404008	260926	29.17
42 Acenaphthene-d10	124451	62226	248902	159226	27.94
59 Phenanthrene-d10	239860	119930	479720	316277	31.86
69 Chrysene-d12	191274	95637	382548	242021	26.53
134 Di-n-octylphthala	341876	170938	683752	431998	26.36
77 Perylene-d12	162367	81184	324734	213390	31.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.99	0.00
27 Naphthalene-d8	11.48	10.98	11.98	11.48	0.00
42 Acenaphthene-d10	15.10	14.60	15.60	15.10	0.00
59 Phenanthrene-d10	18.14	17.64	18.64	18.14	0.00
69 Chrysene-d12	23.19	22.69	23.69	23.19	-0.03
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	0.00
77 Perylene-d12	25.77	25.27	26.27	25.77	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282305.D

Lab ID: SLA0338-CAL4
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 17:53

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.955	0.949	0.0068	Benzoic acid

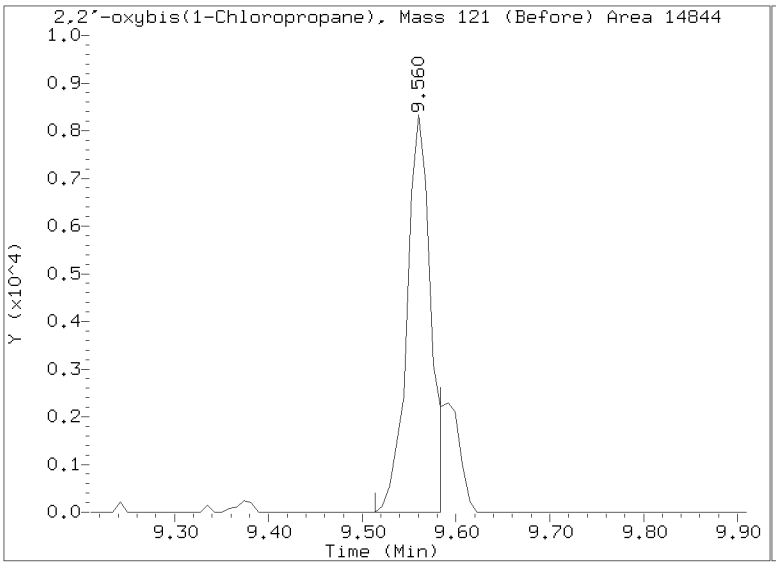
RRT check based on Ccal File: NT1401282308.D

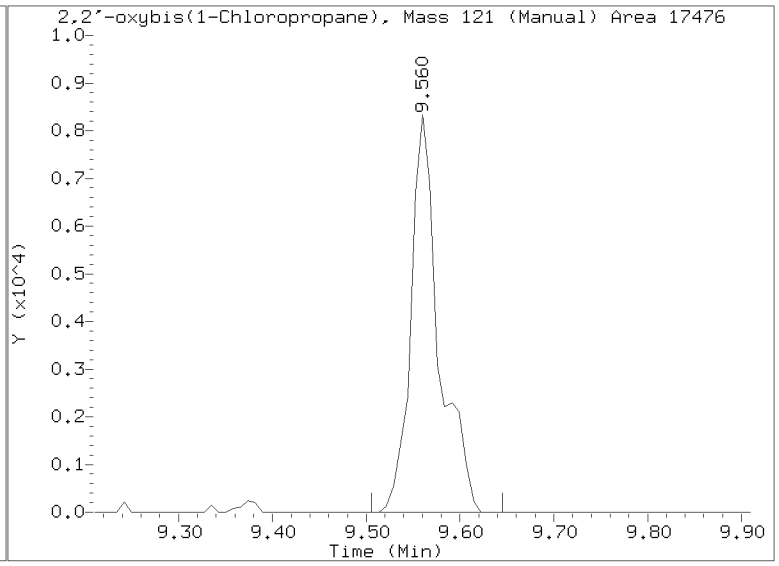
On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230128.b/NT1401282305.D
Injection Date: 28-JAN-2023 17:53
Lab ID:SLA0338-CAL4 Client ID:
Report Date: 01/31/2023 13:35

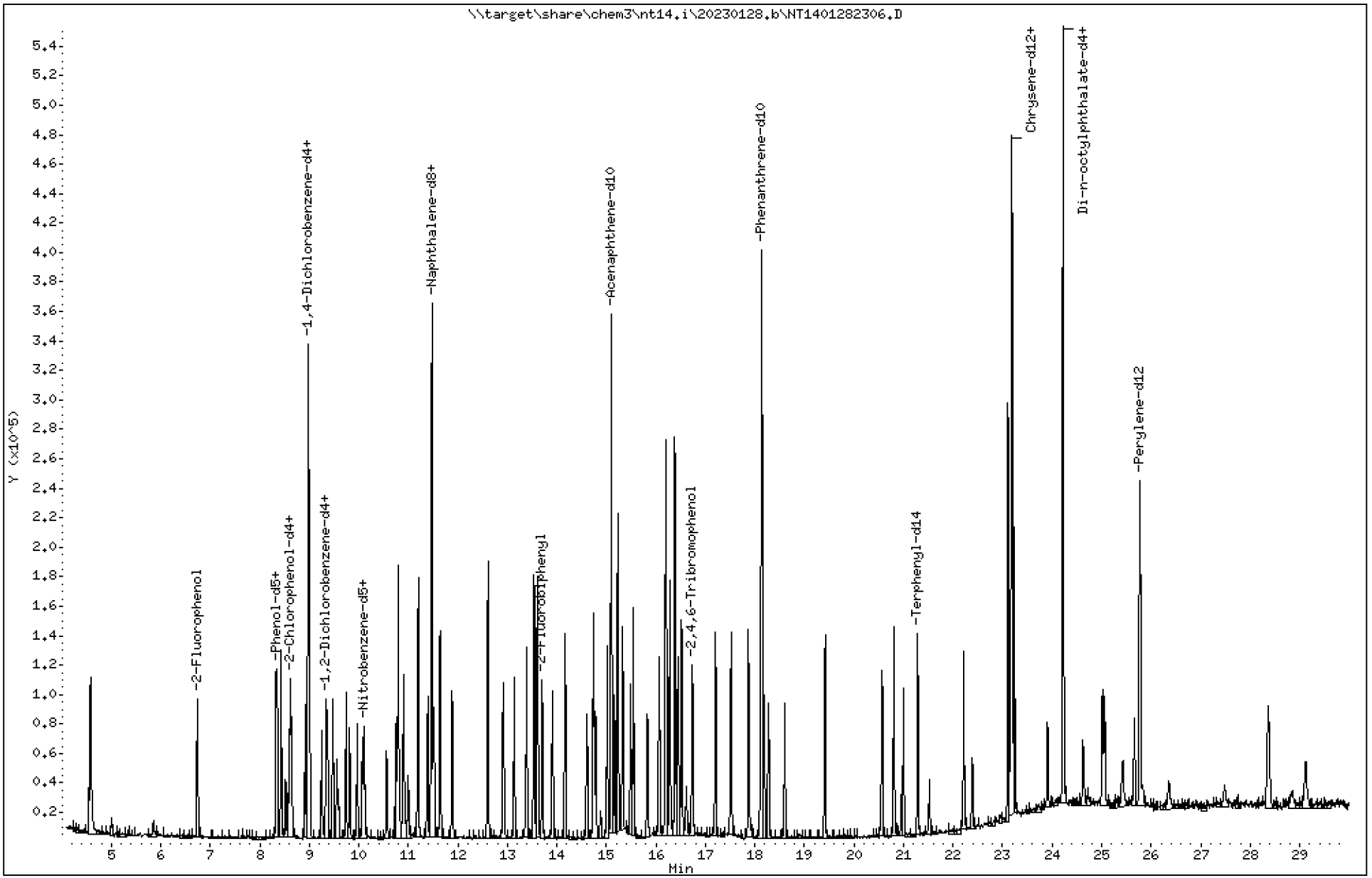




Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282306.D
Date : 28-JAN-2023 18:29
Client ID:
Sample Info: SLA0338-CAL3

Instrument: nt14.i
Operator: JGR
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230128.b\NT1401282306.D
Lab Smp Id: SLA0338-CAL3
Inj Date : 28-JAN-2023 18:29 MS Autotune Date: 17-MAY-2011 01:22
Operator : JGR Inst ID: nt14.i
Smp Info : SLA0338-CAL3
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 18:29 Cal File: NT1401282306.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.744	6.744	(0.751)	17004	1.50000	1.545
$	2 Phenol-d5	99	8.328	8.328	(0.927)	22319	1.50000	1.543
	3 Phenol	94	8.351	8.351	(0.929)	18940	1.00000	1.068
$	5 2-Chlorophenol-d4	132	8.614	8.614	(0.959)	20617	1.50000	1.474
	4 Bis(2-Chloroethyl)ether	93	8.521	8.529	(0.948)	11525	1.00000	1.130
	6 2-Chlorophenol	128	8.637	8.637	(0.961)	15608	1.00000	1.060
	7 1,3-Dichlorobenzene	146	8.915	8.915	(0.992)	16421	1.00000	0.9985
*	8 1,4-Dichlorobenzene-d4	152	8.985	8.978	(1.000)	40977	4.00000	
	9 1,4-Dichlorobenzene	146	9.016	9.009	(1.003)	16416	1.00000	0.9879
$	10 1,2-Dichlorobenzene-d4	152	9.342	9.342	(1.040)	10697	1.00000	1.078
	12 1,2-Dichlorobenzene	146	9.366	9.366	(1.042)	16153	1.00000	0.9887
	11 Benzyl alcohol	108	9.249	9.249	(1.029)	8925	1.00000	1.021
	14 2,2'-oxybis(1-Chloropropane)	121	9.560	9.560	(1.064)	5183	1.00000	1.133(M)
	13 2-Methylphenol	108	9.474	9.474	(1.054)	14384	1.00000	1.056
	17 Hexachloroethane	117	9.963	9.963	(1.109)	10367	1.00000	1.034
	16 N-Nitroso-di-n-propylamine	70	9.816	9.808	(1.092)	13052	1.00000	1.098
	15 4-Methylphenol	108	9.746	9.746	(1.085)	15886	1.00000	1.033
$	18 Nitrobenzene-d5	82	10.080	10.072	(0.878)	23122	1.00000	0.9471
	19 Nitrobenzene	77	10.111	10.111	(0.881)	22739	1.00000	0.9557
	20 Isophorone	82	10.561	10.561	(0.920)	23534	1.00000	0.8746
	21 2-Nitrophenol	139	10.747	10.747	(0.937)	8221	1.00000	0.9161
	22 2,4-Dimethylphenol	107	10.801	10.794	(0.941)	44607	2.00000	1.857
	23 Bis(2-Chloroethoxy)methane	93	11.003	11.003	(0.959)	12081	1.00000	0.8887
	24 Benzoic acid	105	10.902	10.887	(0.950)	29860	4.00000	2.086
	25 2,4-Dichlorophenol	162	11.197	11.197	(0.976)	29033	2.00000	1.981
	26 1,2,4-Trichlorobenzene	180	11.390	11.390	(0.993)	15612	1.00000	0.9280
*	27 Naphthalene-d8	136	11.475	11.475	(1.000)	170624	4.00000	
	28 Naphthalene	128	11.514	11.514	(1.003)	39906	1.00000	0.9296
	29 4-Chloroaniline	127	11.637	11.645	(1.014)	32239	2.00000	1.797
	30 Hexachlorobutadiene	225	11.884	11.892	(1.036)	12610	1.00000	0.9494
	31 4-Chloro-3-methylphenol	107	12.604	12.604	(1.098)	33716	2.00000	1.694
	32 2-Methylnaphthalene	142	12.914	12.914	(1.125)	31417	1.00000	0.8977
	33 Hexachlorocyclopentadiene	237	13.393	13.386	(0.887)	23369	2.00000	1.649
	34 2,4,6-Trichlorophenol	196	13.540	13.533	(0.897)	21259	2.00000	1.705

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	35	2,4,5-Trichlorophenol	196	13.610	13.610	(0.902)	24581	2.00000	1.778
$	36	2-Fluorobiphenyl	172	13.703	13.703	(0.908)	34127	1.00000	0.9342
	37	2-Chloronaphthalene	162	13.912	13.912	(0.922)	27293	1.00000	0.8980
	38	2-Nitroaniline	65	14.167	14.160	(0.938)	30898	2.00000	1.733
	39	Dimethylphthalate	163	14.608	14.601	(0.968)	38011	1.00000	0.9665
	40	Acenaphthylene	152	14.779	14.779	(0.979)	43454	1.00000	0.9133
	41	2,6-Dinitrotoluene	165	14.740	14.740	(0.976)	18352	2.00000	2.033
*	42	Acenaphthene-d10	164	15.096	15.096	(1.000)	102649	4.00000	
	43	3-Nitroaniline	138	15.011	15.011	(0.994)	17089	2.00000	1.961
	44	Acenaphthene	153	15.166	15.158	(1.005)	30476	1.00000	0.9470
	45	2,4-Dinitrophenol	184	15.227	15.227	(1.009)	21368	4.00000	2.406
	46	Dibenzofuran	168	15.490	15.490	(1.026)	43017	1.00000	0.9224
	47	4-Nitrophenol	109	15.328	15.328	(1.015)	27582	2.00000	1.548
	48	2,4-Dinitrotoluene	165	15.544	15.544	(1.030)	22938	2.00000	1.831
	50	Diethylphthalate	149	16.062	16.062	(1.064)	57189	1.00000	1.001
	49	Fluorene	166	16.201	16.202	(1.073)	52665	1.00000	0.9106
	51	4-Chlorophenyl-phenylether	204	16.201	16.202	(1.073)	29298	1.00000	0.8894
	52	4-Nitroaniline	138	16.279	16.271	(1.078)	19047	2.00000	1.840
	53	4,6-Dinitro-2-methylphenol	198	16.379	16.379	(0.903)	31988	4.00000	2.753
	54	N-Nitrosodiphenylamine	169	16.448	16.441	(0.907)	31859	1.00000	0.9577
$	55	2,4,6-Tribromophenol	330	16.734	16.741	(1.108)	10504	1.50000	1.276
	56	4-Bromophenyl-phenylether	248	17.204	17.204	(0.949)	15590	1.00000	1.005
	57	Hexachlorobenzene	284	17.513	17.513	(0.966)	16014	1.00000	0.9050
	58	Pentachlorophenol	266	17.869	17.869	(0.985)	14875	2.00000	1.550
*	59	Phenanthrene-d10	188	18.132	18.132	(1.000)	196598	4.00000	
	60	Phenanthrene	178	18.178	18.179	(1.003)	50174	1.00000	0.9459
	61	Anthracene	178	18.271	18.279	(1.008)	47877	1.00000	0.9446
	62	Carbazole	167	18.596	18.604	(1.026)	45804	1.00000	0.9841
	63	Di-n-butylphthalate	149	19.416	19.409	(1.071)	65929	1.00000	0.9136
	64	Fluoranthene	202	20.569	20.569	(0.887)	55632	1.00000	0.9880
	65	Pyrene	202	20.995	20.995	(0.906)	54684	1.00000	0.9781
$	66	Terphenyl-d14	244	21.289	21.289	(0.918)	45530	1.00000	0.9733
	67	Butylbenzylphthalate	149	22.218	22.210	(0.958)	30748	1.00000	0.9992
	68	Benzo(a)anthracene	228	23.163	23.155	(0.999)	50081	1.00000	0.9231
*	69	Chrysene-d12	240	23.186	23.186	(1.000)	148746	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.108	23.108	(0.997)	58075	3.00000	2.421
	71	Chrysene	228	23.232	23.232	(1.002)	49392	1.00000	0.9641
	72	bis(2-Ethylhexyl)phthalate	149	23.240	23.240	(0.959)	37744	1.00000	0.9741
*	134	Di-n-octylphthalate-d4	153	24.223	24.215	(1.000)	238153	4.00000	
	73	Di-n-octylphthalate	149	24.231	24.231	(1.000)	59837	1.00000	0.9951
	74	Benzo(b)fluoranthene	252	25.021	25.021	(0.971)	44342	1.00000	0.9683
	75	Benzo(k)fluoranthene	252	25.067	25.059	(0.973)	42459	1.00000	0.9056
	76	Benzo(a)pyrene	252	25.655	25.648	(0.995)	38768	1.00000	0.9908
*	77	Perylene-d12	264	25.772	25.772	(1.000)	130323	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.359	28.367	(1.100)	44679	1.00000	0.9038
	79	Dibenzo(a,h)anthracene	278	28.367	28.367	(1.101)	38550	1.00000	0.9055
	80	Benzo(g,h,i)perylene	276	29.128	29.105	(1.130)	37787	1.00000	1.032
	90	N-Nitrosodimethylamine	74	4.558	4.558	(0.507)	14639	2.00000	2.203
	91	Aniline	93	8.428	8.428	(0.938)	31198	2.00000	2.073
	93	Benzidine	184	20.801	20.801	(0.897)	58774	2.00000	2.337
	103	Pyridine	79	4.589	4.597	(0.511)	18953	1.00000	0.9894
	105	1-methylnaphthalene	142	13.138	13.138	(1.145)	31330	1.00000	0.9218
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.518	16.518	(1.094)	78251	1.00000	0.9511
	187	Total Benzofluoranthenes	252	25.021	25.021	(0.971)	82700	2.00000	1.855

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	15.830	15.830	(1.049)	10290	1.00000	0.7810

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282306.D
Lab Smp Id: SLA0338-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	40977	-22.77
27 Naphthalene-d8	202004	101002	404008	170624	-15.53
42 Acenaphthene-d10	124451	62226	248902	102649	-17.52
59 Phenanthrene-d10	239860	119930	479720	196598	-18.04
69 Chrysene-d12	191274	95637	382548	148746	-22.23
134 Di-n-octylphthala	341876	170938	683752	238153	-30.34
77 Perylene-d12	162367	81184	324734	130323	-19.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.99	0.00
27 Naphthalene-d8	11.48	10.98	11.98	11.48	0.00
42 Acenaphthene-d10	15.10	14.60	15.60	15.10	-0.05
59 Phenanthrene-d10	18.14	17.64	18.64	18.13	-0.04
69 Chrysene-d12	23.19	22.69	23.69	23.19	-0.03
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	0.00
77 Perylene-d12	25.77	25.27	26.27	25.77	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282306.D

Lab ID: SLA0338-CAL3
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 18:29

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

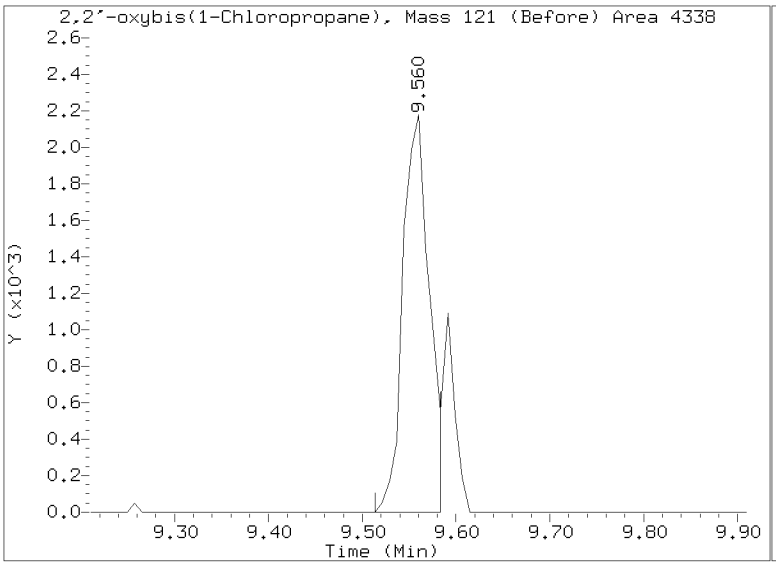
RRT check based on Ccal File: NT1401282308.D

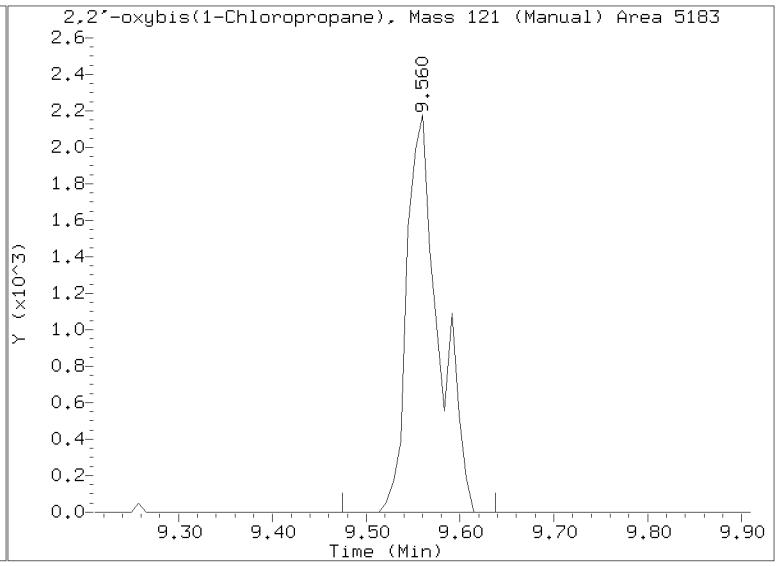
On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230128.b/NT1401282306.D
Injection Date: 28-JAN-2023 18:29
Lab ID:SLA0338-CAL3 Client ID:
Report Date: 01/31/2023 13:35





Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282307.D

Date : 28-JAN-2023 19:05

Client ID:

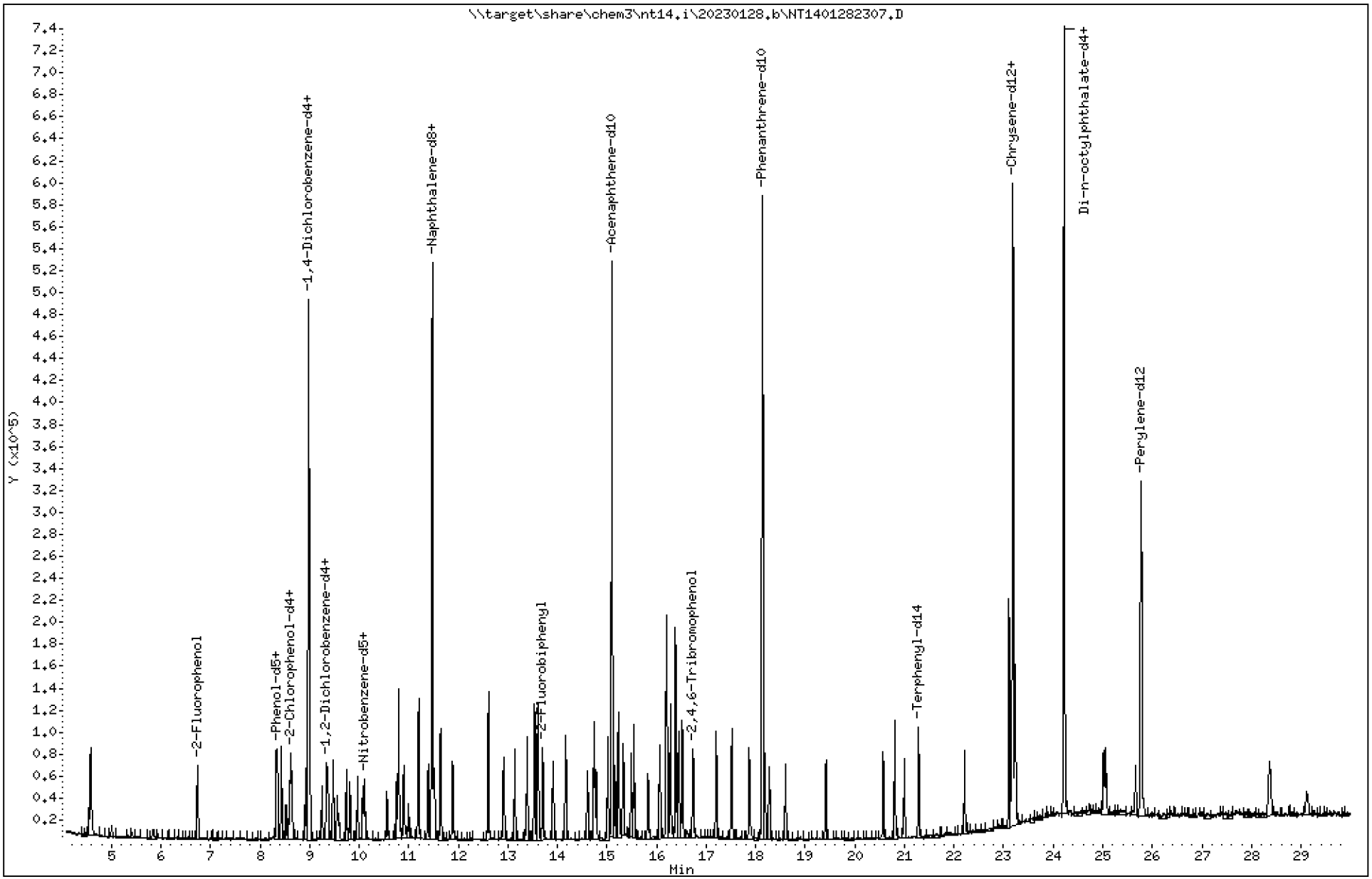
Instrument: nt14.i

Sample Info: SLA0338-CAL2

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230128.b\NT1401282307.D
Lab Smp Id: SLA0338-CAL2
Inj Date : 28-JAN-2023 19:05 MS Autotune Date: 17-MAY-2011 01:22
Operator : JGR Inst ID: nt14.i
Smp Info : SLA0338-CAL2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 19:05 Cal File: NT1401282307.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.744	6.744	(0.751)	12090	0.75000	0.7068
$	2 Phenol-d5	99	8.328	8.328	(0.928)	16650	0.75000	0.7409
	3 Phenol	94	8.351	8.351	(0.930)	13980	0.50000	0.5072
$	5 2-Chlorophenol-d4	132	8.614	8.614	(0.959)	15675	0.75000	0.7211
	4 Bis(2-Chloroethyl)ether	93	8.521	8.529	(0.949)	7992	0.50000	0.5041
	6 2-Chlorophenol	128	8.645	8.637	(0.963)	10629	0.50000	0.4644
	7 1,3-Dichlorobenzene	146	8.915	8.915	(0.993)	12597	0.50000	0.4929
*	8 1,4-Dichlorobenzene-d4	152	8.977	8.978	(1.000)	63682	4.00000	
	9 1,4-Dichlorobenzene	146	9.009	9.009	(1.003)	12882	0.50000	0.4989
$	10 1,2-Dichlorobenzene-d4	152	9.342	9.342	(1.041)	8343	0.50000	0.5408
	12 1,2-Dichlorobenzene	146	9.373	9.366	(1.044)	10748	0.50000	0.4233
	11 Benzyl alcohol	108	9.249	9.249	(1.030)	7038	0.50000	0.5179
	14 2,2'-oxybis(1-Chloropropane)	121	9.552	9.560	(1.064)	3350	0.50000	0.4712(M)
	13 2-Methylphenol	108	9.474	9.474	(1.055)	10251	0.50000	0.4843
	17 Hexachloroethane	117	9.963	9.963	(1.110)	7248	0.50000	0.4653
	16 N-Nitroso-di-n-propylamine	70	9.816	9.808	(1.093)	9393	0.50000	0.5086
	15 4-Methylphenol	108	9.746	9.746	(1.086)	11817	0.50000	0.4947
$	18 Nitrobenzene-d5	82	10.080	10.072	(0.878)	15453	0.50000	0.4533
	19 Nitrobenzene	77	10.111	10.111	(0.881)	15776	0.50000	0.4749
	20 Isophorone	82	10.561	10.561	(0.920)	17341	0.50000	0.4615
	21 2-Nitrophenol	139	10.747	10.747	(0.937)	4617	0.50000	0.3696
	22 2,4-Dimethylphenol	107	10.793	10.794	(0.941)	31511	1.00000	0.9393
	23 Bis(2-Chloroethoxy)methane	93	10.995	11.003	(0.958)	9082	0.50000	0.4785
	24 Benzoic acid	105	10.894	10.887	(0.949)	16404	2.00000	0.8226
	25 2,4-Dichlorophenol	162	11.197	11.197	(0.976)	17827	1.00000	0.8760
	26 1,2,4-Trichlorobenzene	180	11.390	11.390	(0.993)	11057	0.50000	0.4707
*	27 Naphthalene-d8	136	11.475	11.475	(1.000)	238244	4.00000	
	28 Naphthalene	128	11.514	11.514	(1.003)	29001	0.50000	0.4838
	29 4-Chloroaniline	127	11.645	11.645	(1.015)	22047	1.00000	0.8838
	30 Hexachlorobutadiene	225	11.892	11.892	(1.036)	8338	0.50000	0.4496
	31 4-Chloro-3-methylphenol	107	12.604	12.604	(1.098)	24801	1.00000	0.8957
	32 2-Methylnaphthalene	142	12.914	12.914	(1.125)	22621	0.50000	0.4629
	33 Hexachlorocyclopentadiene	237	13.393	13.386	(0.887)	17722	1.00000	0.8540
	34 2,4,6-Trichlorophenol	196	13.533	13.533	(0.896)	14927	1.00000	0.8182

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	35	2,4,5-Trichlorophenol	196	13.602	13.610	(0.901)	17353	1.00000	0.8585
$	36	2-Fluorobiphenyl	172	13.703	13.703	(0.908)	25924	0.50000	0.4827
	37	2-Chloronaphthalene	162	13.912	13.912	(0.922)	20879	0.50000	0.4673
	38	2-Nitroaniline	65	14.167	14.160	(0.938)	22549	1.00000	0.8602
	39	Dimethylphthalate	163	14.609	14.601	(0.968)	26446	0.50000	0.4574
	40	Acenaphthylene	152	14.779	14.779	(0.979)	32338	0.50000	0.4623
	41	2,6-Dinitrotoluene	165	14.740	14.740	(0.976)	10629	1.00000	0.8009
*	42	Acenaphthene-d10	164	15.096	15.096	(1.000)	150907	4.00000	
	43	3-Nitroaniline	138	15.011	15.011	(0.994)	11273	1.00000	0.8798
	44	Acenaphthene	153	15.166	15.158	(1.005)	22406	0.50000	0.4736
	45	2,4-Dinitrophenol	184	15.227	15.227	(1.009)	13036	2.00000	1.003
	46	Dibenzofuran	168	15.490	15.490	(1.026)	30763	0.50000	0.4487
	47	4-Nitrophenol	109	15.328	15.328	(1.015)	18992	1.00000	0.7271
	48	2,4-Dinitrotoluene	165	15.544	15.544	(1.030)	15476	1.00000	0.8402
	50	Diethylphthalate	149	16.062	16.062	(1.064)	39073	0.50000	0.4651
	49	Fluorene	166	16.201	16.202	(1.073)	40666	0.50000	0.4805
	51	4-Chlorophenyl-phenylether	204	16.194	16.202	(1.073)	23258	0.50000	0.4803
	52	4-Nitroaniline	138	16.279	16.271	(1.078)	14198	1.00000	0.9332
	53	4,6-Dinitro-2-methylphenol	198	16.379	16.379	(0.903)	22996	2.00000	1.355
	54	N-Nitrosodiphenylamine	169	16.441	16.441	(0.907)	23111	0.50000	0.4739
$	55	2,4,6-Tribromophenol	330	16.734	16.741	(1.108)	8590	0.75000	0.7124
	56	4-Bromophenyl-phenylether	248	17.196	17.204	(0.948)	9531	0.50000	0.4193
	57	Hexachlorobenzene	284	17.513	17.513	(0.966)	12163	0.50000	0.4689
	58	Pentachlorophenol	266	17.861	17.869	(0.985)	9625	1.00000	0.6875
*	59	Phenanthrene-d10	188	18.132	18.132	(1.000)	288201	4.00000	
	60	Phenanthrene	178	18.186	18.179	(1.003)	35114	0.50000	0.4516
	61	Anthracene	178	18.271	18.279	(1.008)	34246	0.50000	0.4609
	62	Carbazole	167	18.604	18.604	(1.026)	32865	0.50000	0.4817
	63	Di-n-butylphthalate	149	19.416	19.409	(1.071)	44677	0.50000	0.4223
	64	Fluoranthene	202	20.569	20.569	(0.887)	38725	0.50000	0.4646
	65	Pyrene	202	20.995	20.995	(0.906)	39796	0.50000	0.4807
$	66	Terphenyl-d14	244	21.289	21.289	(0.918)	35046	0.50000	0.5057
	67	Butylbenzylphthalate	149	22.210	22.210	(0.958)	17650	0.50000	0.3875
	68	Benzo(a)anthracene	228	23.155	23.155	(0.999)	36849	0.50000	0.4560
*	69	Chrysene-d12	240	23.186	23.186	(1.000)	221537	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.108	23.108	(0.997)	40098	1.50000	1.129
	71	Chrysene	228	23.232	23.232	(1.002)	34164	0.50000	0.4507
	72	bis(2-Ethylhexyl)phthalate	149	23.240	23.240	(0.960)	25995	0.50000	0.4409
*	134	Di-n-octylphthalate-d4	153	24.215	24.215	(1.000)	364511	4.00000	
	73	Di-n-octylphthalate	149	24.231	24.231	(1.001)	49028	0.50000	0.5327
	74	Benzo(b)fluoranthene	252	25.021	25.021	(0.971)	31022	0.50000	0.4457
	75	Benzo(k)fluoranthene	252	25.059	25.059	(0.972)	32437	0.50000	0.4552
	76	Benzo(a)pyrene	252	25.655	25.648	(0.995)	26182	0.50000	0.4403
*	77	Perylene-d12	264	25.772	25.772	(1.000)	198060	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.352	28.367	(1.100)	33020	0.50000	0.4395(M)
	79	Dibenzo(a,h)anthracene	278	28.375	28.367	(1.101)	29318	0.50000	0.4531
	80	Benzo(g,h,i)perylene	276	29.113	29.105	(1.130)	25083	0.50000	0.4508
	90	N-Nitrosodimethylamine	74	4.558	4.558	(0.508)	9825	1.00000	0.9516
	91	Aniline	93	8.428	8.428	(0.939)	21136	1.00000	0.9036
	93	Benzidine	184	20.801	20.801	(0.897)	41490	1.00000	1.108
	103	Pyridine	79	4.589	4.597	(0.511)	14492	0.50000	0.4868
	105	1-methylnaphthalene	142	13.138	13.138	(1.145)	21461	0.50000	0.4522
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.518	16.518	(1.094)	56979	0.50000	0.4711
	187	Total Benzofluoranthenes	252	25.021	25.021	(0.971)	61029	1.00000	0.9007

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	15.823	15.830	(1.048)	7318	0.50000	0.3789

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282307.D
Lab Smp Id: SLA0338-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	63682	20.02
27 Naphthalene-d8	202004	101002	404008	238244	17.94
42 Acenaphthene-d10	124451	62226	248902	150907	21.26
59 Phenanthrene-d10	239860	119930	479720	288201	20.15
69 Chrysene-d12	191274	95637	382548	221537	15.82
134 Di-n-octylphthala	341876	170938	683752	364511	6.62
77 Perylene-d12	162367	81184	324734	198060	21.98

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.98	-0.09
27 Naphthalene-d8	11.48	10.98	11.98	11.48	0.00
42 Acenaphthene-d10	15.10	14.60	15.60	15.10	-0.05
59 Phenanthrene-d10	18.14	17.64	18.64	18.13	-0.04
69 Chrysene-d12	23.19	22.69	23.69	23.19	-0.03
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	-0.03
77 Perylene-d12	25.77	25.27	26.27	25.77	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282307.D

Lab ID: SLA0338-CAL2
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 19:05

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

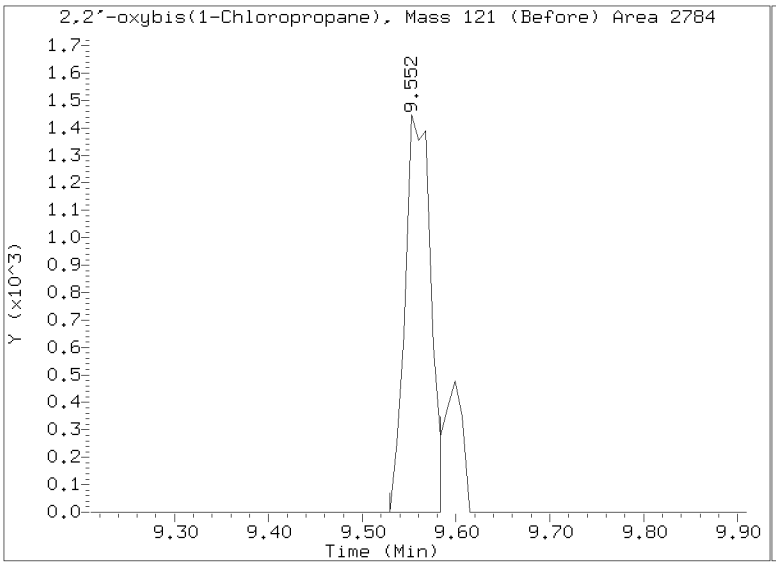
RRT check based on Ccal File: NT1401282308.D

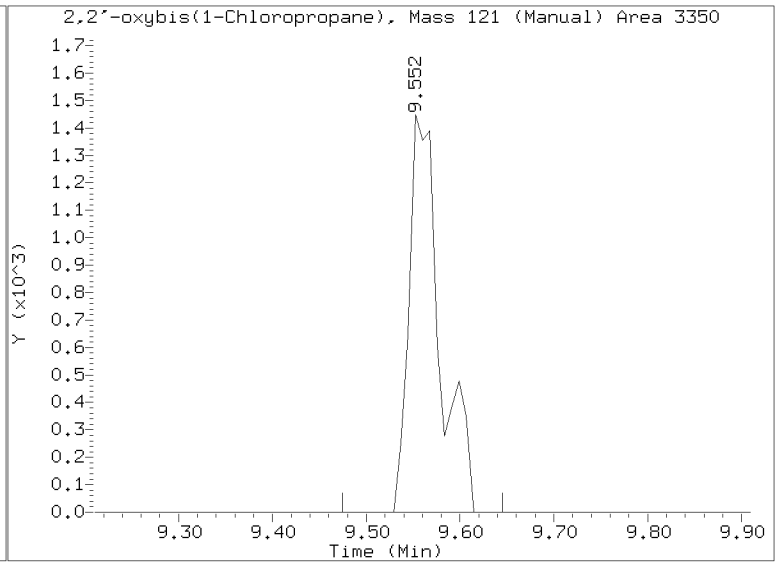
On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

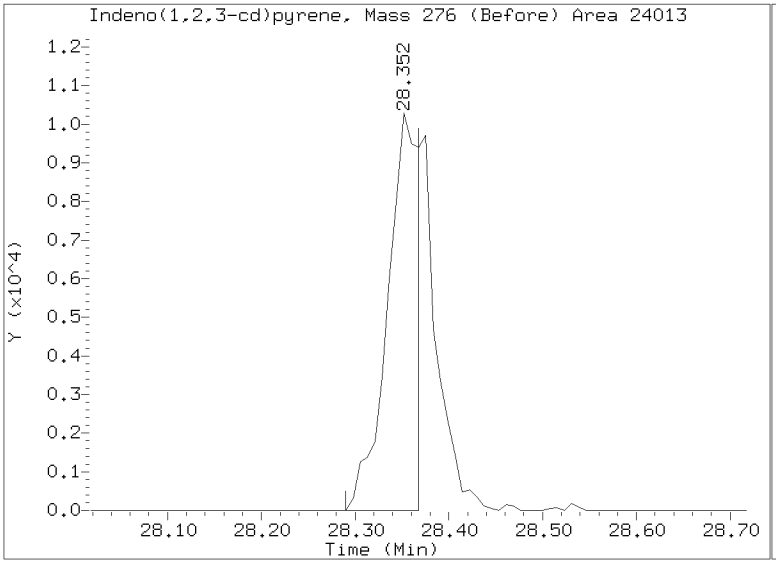
* Only compounds listed in the work order have been verified by the analyst *

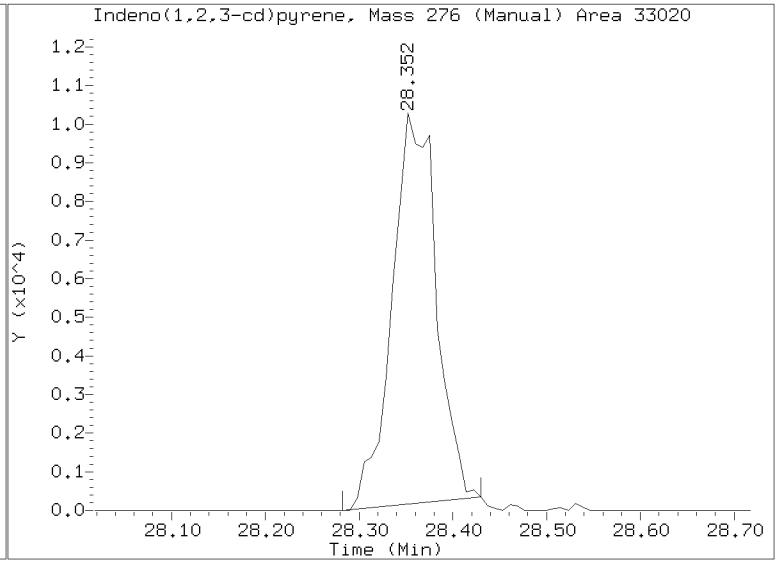
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230128.b/NT1401282307.D
Injection Date: 28-JAN-2023 19:05
Lab ID:SLA0338-CAL2 Client ID:
Report Date: 01/31/2023 13:35









Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282308.D

Date : 28-JAN-2023 19:41

Client ID:

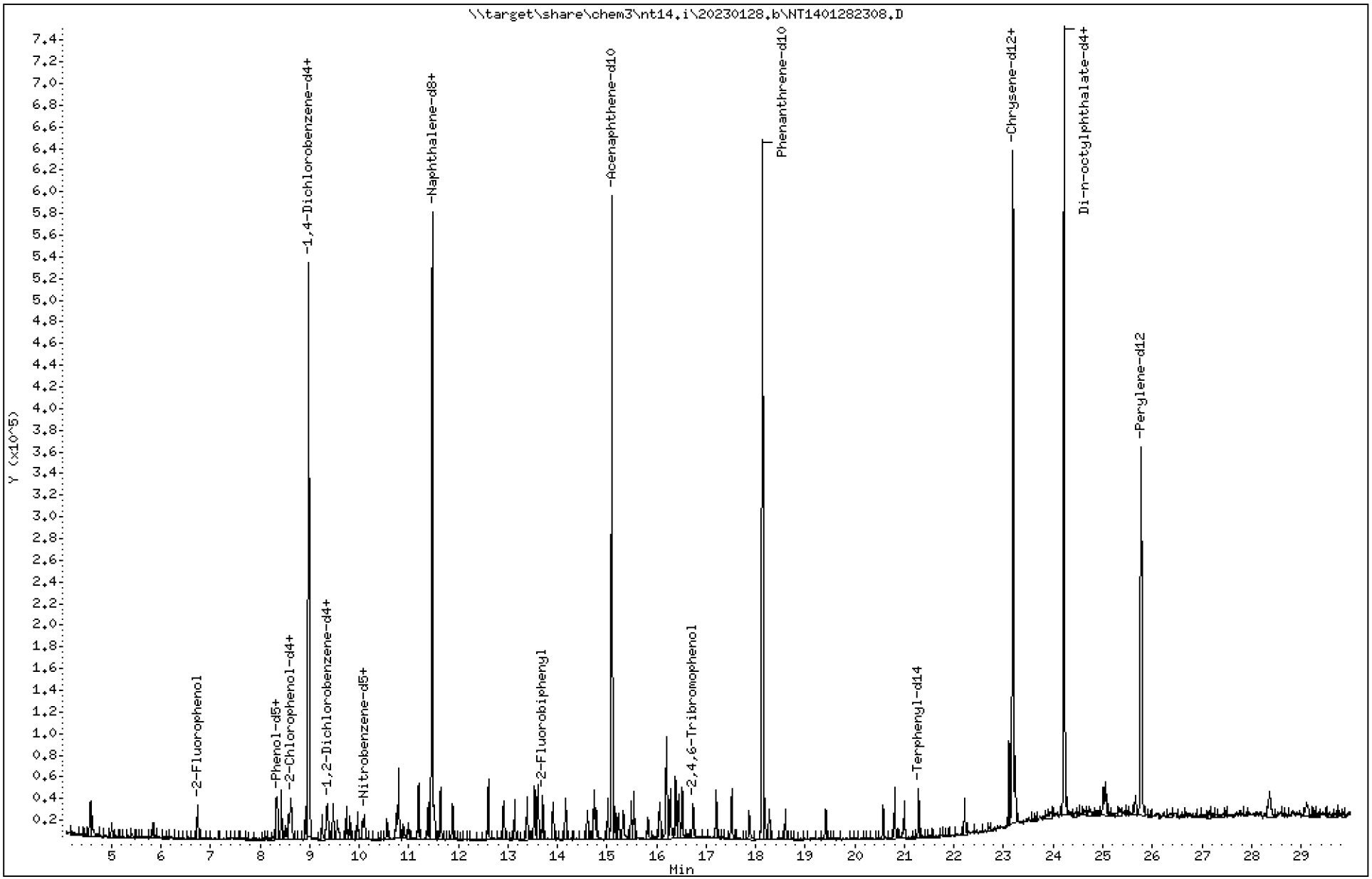
Instrument: nt14.i

Sample Info: SLA0338-CAL1

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230128.b\NT1401282308.D
Lab Smp Id: SLA0338-CAL1
Inj Date : 28-JAN-2023 19:41 MS Autotune Date: 17-MAY-2011 01:22
Operator : JGR Inst ID: nt14.i
Smp Info : SLA0338-CAL1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.744	6.744	(0.751)	5459	0.30000	0.2913
$	2 Phenol-d5	99	8.328	8.328	(0.928)	7708	0.30000	0.3130
	3 Phenol	94	8.351	8.351	(0.930)	5723	0.20000	0.1895
$	5 2-Chlorophenol-d4	132	8.614	8.614	(0.959)	7674	0.30000	0.3222
	4 Bis(2-Chloroethyl)ether	93	8.529	8.529	(0.950)	3553	0.20000	0.2045
	6 2-Chlorophenol	128	8.637	8.637	(0.962)	5154	0.20000	0.2055
	7 1,3-Dichlorobenzene	146	8.915	8.915	(0.993)	5472	0.20000	0.1954
*	8 1,4-Dichlorobenzene-d4	152	8.978	8.978	(1.000)	69773	4.00000	
	9 1,4-Dichlorobenzene	146	9.009	9.009	(1.003)	5962	0.20000	0.2107(M)
$	10 1,2-Dichlorobenzene-d4	152	9.342	9.342	(1.041)	3371	0.20000	0.1994
	12 1,2-Dichlorobenzene	146	9.366	9.366	(1.043)	6606	0.20000	0.2375
	11 Benzyl alcohol	108	9.249	9.249	(1.030)	2763	0.20000	0.1856
	14 2,2'-oxybis(1-Chloropropane)	121	9.560	9.560	(1.065)	1650	0.20000	0.2118(M)
	13 2-Methylphenol	108	9.474	9.474	(1.055)	4444	0.20000	0.1916
	17 Hexachloroethane	117	9.963	9.963	(1.110)	3487	0.20000	0.2043
	16 N-Nitroso-di-n-propylamine	70	9.808	9.808	(1.093)	3730	0.20000	0.1843
	15 4-Methylphenol	108	9.746	9.746	(1.086)	5163	0.20000	0.1973
$	18 Nitrobenzene-d5	82	10.072	10.072	(0.878)	7303	0.20000	0.1953
	19 Nitrobenzene	77	10.111	10.111	(0.881)	7165	0.20000	0.1966
	20 Isophorone	82	10.561	10.561	(0.920)	8436	0.20000	0.2047
	21 2-Nitrophenol	139	10.747	10.747	(0.937)	2367	0.20000	0.1729
	22 2,4-Dimethylphenol	107	10.794	10.794	(0.941)	14767	0.40000	0.4012
	23 Bis(2-Chloroethoxy)methane	93	11.003	11.003	(0.959)	4443	0.20000	0.2134
	24 Benzoic acid	105	10.887	10.887	(0.949)	4121	0.80000	0.1886(M)
	25 2,4-Dichlorophenol	162	11.197	11.197	(0.976)	8530	0.40000	0.3830
	26 1,2,4-Trichlorobenzene	180	11.390	11.390	(0.993)	5395	0.20000	0.2094
*	27 Naphthalene-d8	136	11.475	11.475	(1.000)	261358	4.00000	
	28 Naphthalene	128	11.514	11.514	(1.003)	13400	0.20000	0.2038
	29 4-Chloroaniline	127	11.645	11.645	(1.015)	10494	0.40000	0.3843
	30 Hexachlorobutadiene	225	11.892	11.892	(1.036)	4085	0.20000	0.2008
	31 4-Chloro-3-methylphenol	107	12.604	12.604	(1.098)	10751	0.40000	0.3549
	32 2-Methylnaphthalene	142	12.914	12.914	(1.125)	10396	0.20000	0.1939
	33 Hexachlorocyclopentadiene	237	13.386	13.386	(0.887)	7464	0.40000	0.3401
	34 2,4,6-Trichlorophenol	196	13.533	13.533	(0.896)	6288	0.40000	0.3260

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	35 2,4,5-Trichlorophenol	196	13.610	13.610	(0.902)	6928	0.40000	0.3242
$	36 2-Fluorobiphenyl	172	13.703	13.703	(0.908)	12057	0.20000	0.2117
	37 2-Chloronaphthalene	162	13.912	13.912	(0.922)	9657	0.20000	0.2038
	38 2-Nitroaniline	65	14.160	14.160	(0.938)	7886	0.40000	0.2837
	39 Dimethylphthalate	163	14.601	14.601	(0.967)	11787	0.20000	0.1923
	40 Acenaphthylene	152	14.779	14.779	(0.979)	15583	0.20000	0.2101
	41 2,6-Dinitrotoluene	165	14.740	14.740	(0.976)	4572	0.40000	0.3249
*	42 Acenaphthene-d10	164	15.096	15.096	(1.000)	160002	4.00000	
	43 3-Nitroaniline	138	15.011	15.011	(0.994)	4839	0.40000	0.3562(M)
	44 Acenaphthene	153	15.158	15.158	(1.004)	10010	0.20000	0.1996
	45 2,4-Dinitrophenol	184	15.227	15.227	(1.009)	3099	0.80000	0.2253
	46 Dibenzofuran	168	15.490	15.490	(1.026)	14740	0.20000	0.2028
	47 4-Nitrophenol	109	15.328	15.328	(1.015)	5749	0.40000	0.2079
	48 2,4-Dinitrotoluene	165	15.544	15.544	(1.030)	5762	0.40000	0.2951
	50 Diethylphthalate	149	16.062	16.062	(1.064)	16395	0.20000	0.1840
	49 Fluorene	166	16.202	16.202	(1.073)	14241	0.20000	0.1592
	51 4-Chlorophenyl-phenylether	204	16.202	16.202	(1.073)	9515	0.20000	0.1853
	52 4-Nitroaniline	138	16.271	16.271	(1.078)	5234	0.40000	0.3245
	53 4,6-Dinitro-2-methylphenol	198	16.379	16.379	(0.903)	7995	0.80000	0.4343
	54 N-Nitrosodiphenylamine	169	16.441	16.441	(0.907)	11053	0.20000	0.2085
$	55 2,4,6-Tribromophenol	330	16.741	16.741	(1.109)	4592	0.30000	0.3600
	56 4-Bromophenyl-phenylether	248	17.204	17.204	(0.949)	4592	0.20000	0.1858
	57 Hexachlorobenzene	284	17.513	17.513	(0.966)	5301	0.20000	0.1879
	58 Pentachlorophenol	266	17.869	17.869	(0.985)	3006	0.40000	0.1980
*	59 Phenanthrene-d10	188	18.132	18.132	(1.000)	313355	4.00000	
	60 Phenanthrene	178	18.179	18.179	(1.003)	17000	0.20000	0.2011
	61 Anthracene	178	18.279	18.279	(1.008)	14189	0.20000	0.1756
	62 Carbazole	167	18.604	18.604	(1.026)	12681	0.20000	0.1709
	63 Di-n-butylphthalate	149	19.409	19.409	(1.070)	20268	0.20000	0.1762
	64 Fluoranthene	202	20.569	20.569	(0.887)	17075	0.20000	0.1850
	65 Pyrene	202	20.995	20.995	(0.906)	18213	0.20000	0.1986
$	66 Terphenyl-d14	244	21.289	21.289	(0.918)	15443	0.20000	0.2013
	67 Butylbenzylphthalate	149	22.210	22.210	(0.958)	7723	0.20000	0.1530
	68 Benzo(a)anthracene	228	23.155	23.155	(0.999)	16835	0.20000	0.1875
*	69 Chrysene-d12	240	23.186	23.186	(1.000)	246129	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.108	23.108	(0.997)	18329	0.60000	0.4656
	71 Chrysene	228	23.232	23.232	(1.002)	14603	0.20000	0.1740
	72 bis(2-Ethylhexyl)phthalate	149	23.240	23.240	(0.960)	11911	0.20000	0.1852
*	134 Di-n-octylphthalate-d4	153	24.215	24.215	(1.000)	398721	4.00000	
	73 Di-n-octylphthalate	149	24.231	24.231	(1.001)	21247	0.20000	0.2110
	74 Benzo(b)fluoranthene	252	25.021	25.021	(0.971)	14057	0.20000	0.1845
	75 Benzo(k)fluoranthene	252	25.059	25.059	(0.972)	15125	0.20000	0.1939
	76 Benzo(a)pyrene	252	25.648	25.648	(0.995)	12135	0.20000	0.1864
*	77 Perylene-d12	264	25.772	25.772	(1.000)	216836	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.367	28.367	(1.101)	15095	0.20000	0.1835
	79 Dibenzo(a,h)anthracene	278	28.367	28.367	(1.101)	13205	0.20000	0.1864(M)
	80 Benzo(g,h,i)perylene	276	29.105	29.105	(1.129)	11817	0.20000	0.1940(M)
	90 N-Nitrosodimethylamine	74	4.558	4.558	(0.508)	4658	0.40000	0.4118
	91 Aniline	93	8.428	8.428	(0.939)	10407	0.40000	0.4061
	93 Benzidine	184	20.801	20.801	(0.897)	19760	0.40000	0.4748
	103 Pyridine	79	4.597	4.597	(0.512)	5991	0.20000	0.1837
	105 1-methylnaphthalene	142	13.138	13.138	(1.145)	10129	0.20000	0.1946
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.518	16.518	(1.094)	24209	0.20000	0.1888
	187 Total Benzofluoranthenes	252	25.021	25.021	(0.971)	28558	0.40000	0.3850

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	15.830	15.830	(1.049)	2730	0.20000	0.1335

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282308.D
Lab Smp Id: SLA0338-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	69773	31.50
27 Naphthalene-d8	202004	101002	404008	261358	29.38
42 Acenaphthene-d10	124451	62226	248902	160002	28.57
59 Phenanthrene-d10	239860	119930	479720	313355	30.64
69 Chrysene-d12	191274	95637	382548	246129	28.68
134 Di-n-octylphthala	341876	170938	683752	398721	16.63
77 Perylene-d12	162367	81184	324734	216836	33.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.98	-0.09
27 Naphthalene-d8	11.48	10.98	11.98	11.48	0.00
42 Acenaphthene-d10	15.10	14.60	15.60	15.10	-0.05
59 Phenanthrene-d10	18.14	17.64	18.64	18.13	-0.04
69 Chrysene-d12	23.19	22.69	23.69	23.19	-0.03
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	-0.03
77 Perylene-d12	25.77	25.27	26.27	25.77	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282308.D

Lab ID: SLA0338-CAL1
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 19:41

RT	CO-ELUTION COMPOUNDS
28.368	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
28.368	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: NT1401282308.D

On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

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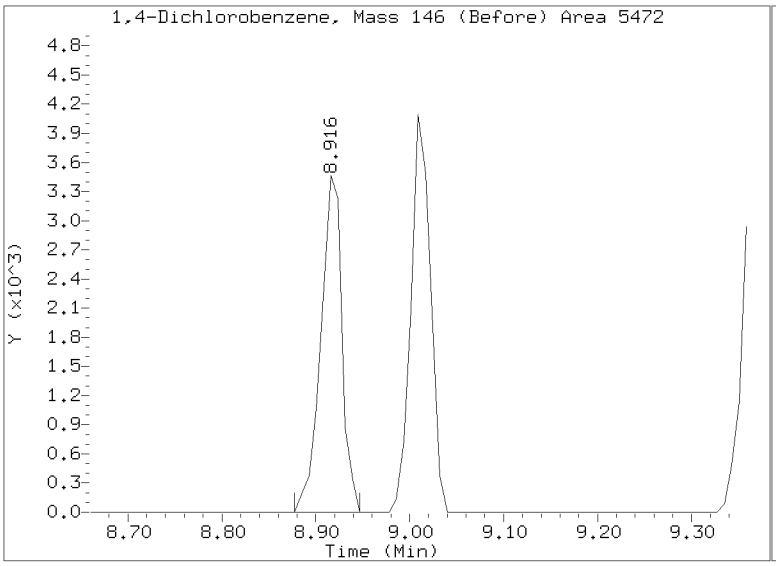
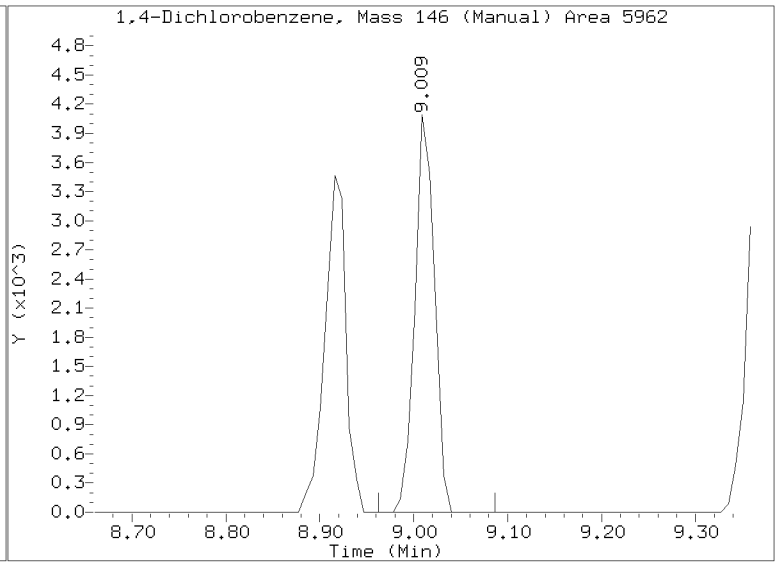
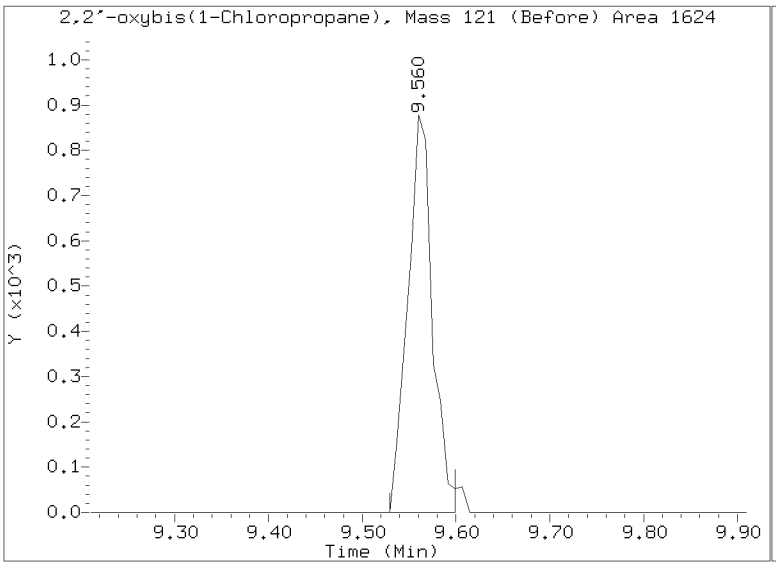
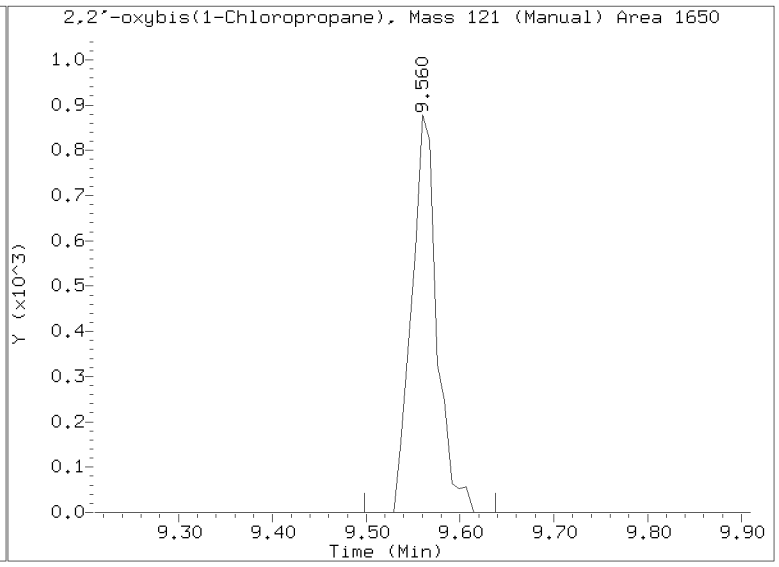
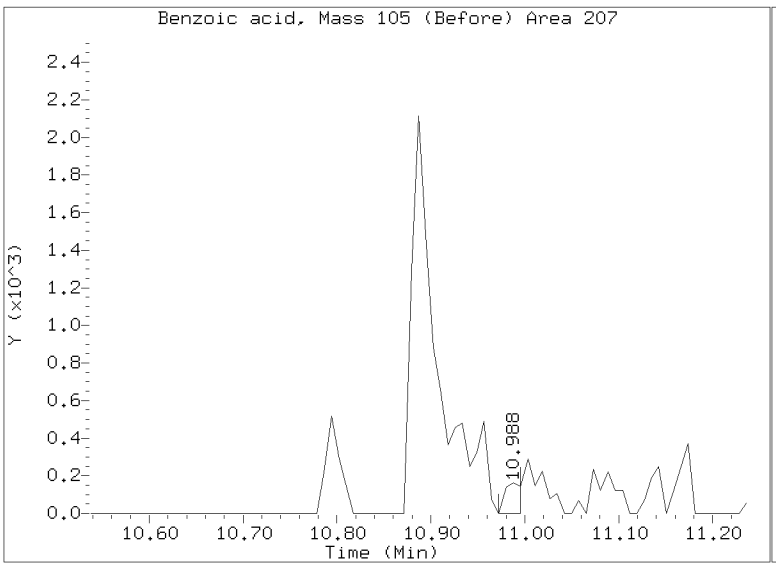
Injection Date: 28-JAN-2023 19:41
Lab ID:SLA0338-CAL1 Client ID:
Report Date: 01/31/2023 13:35

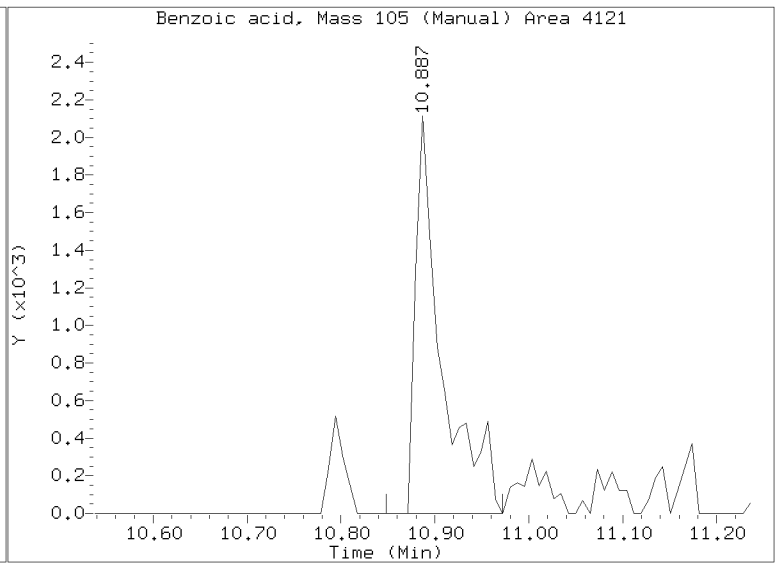












Quant Ion Manual Peak Adjustment Report

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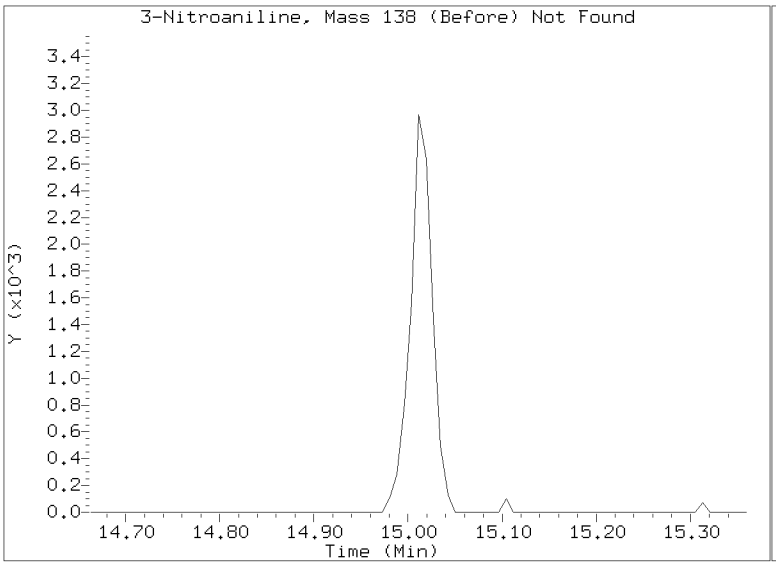
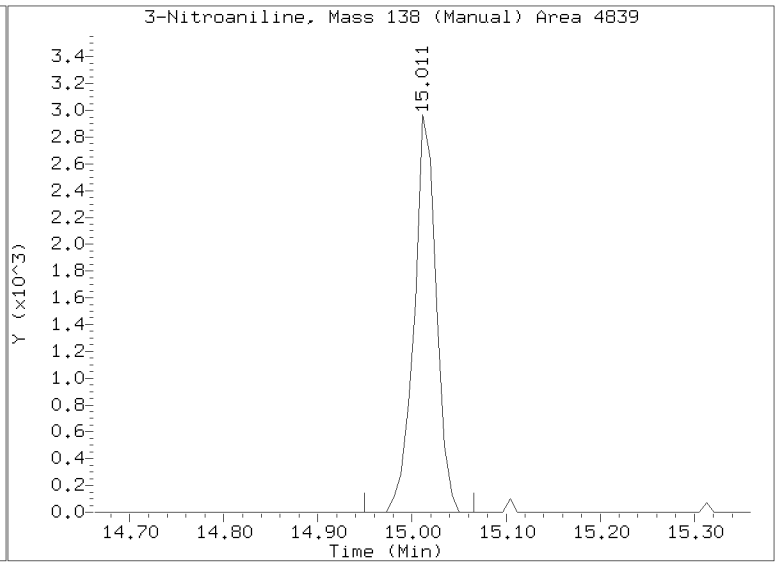
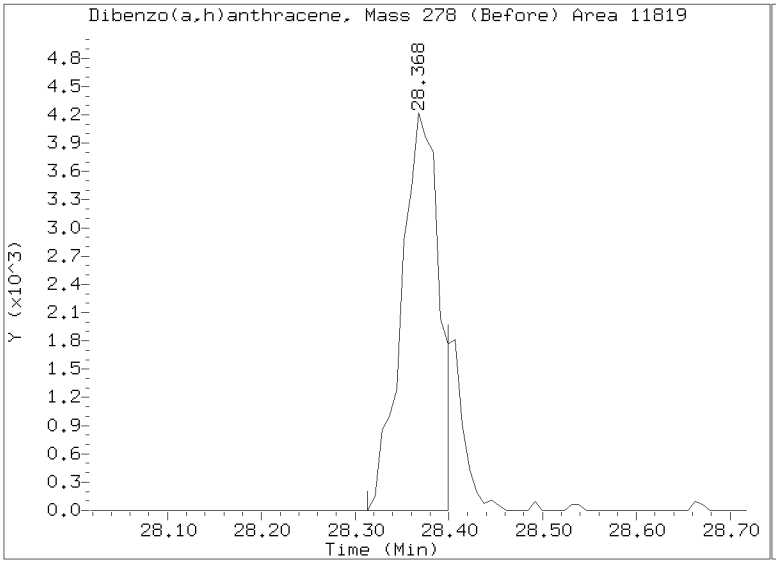
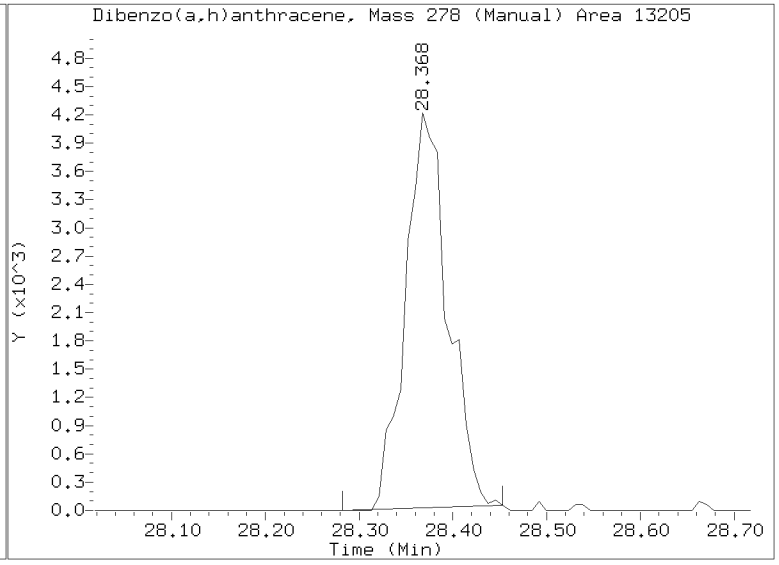
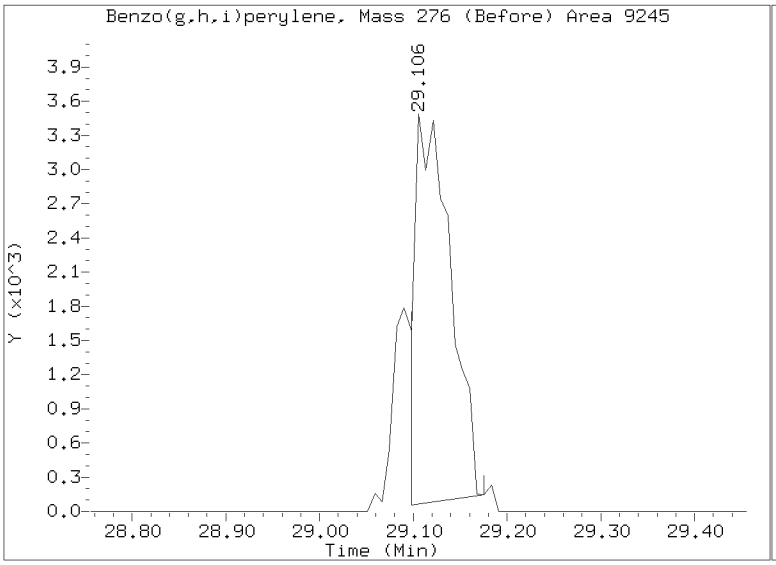
Lab ID:SLA0338-CAL1 Client ID:
Report Date: 01/31/2023 13:35

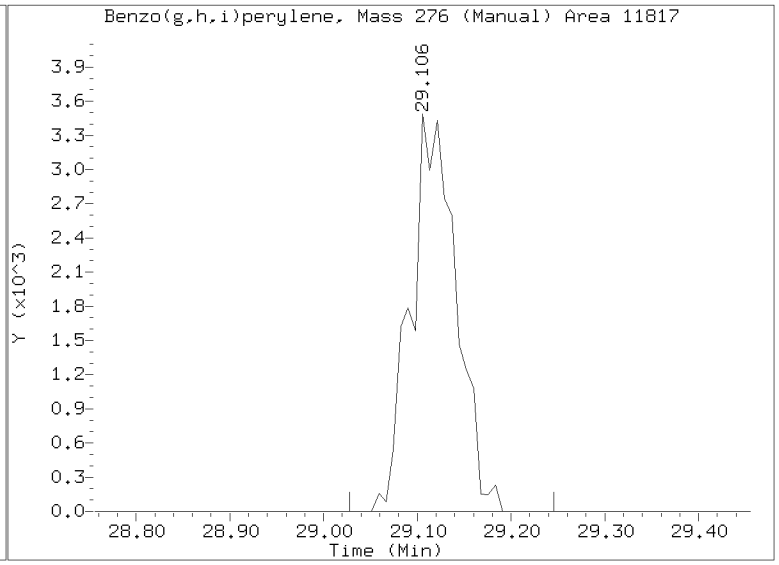












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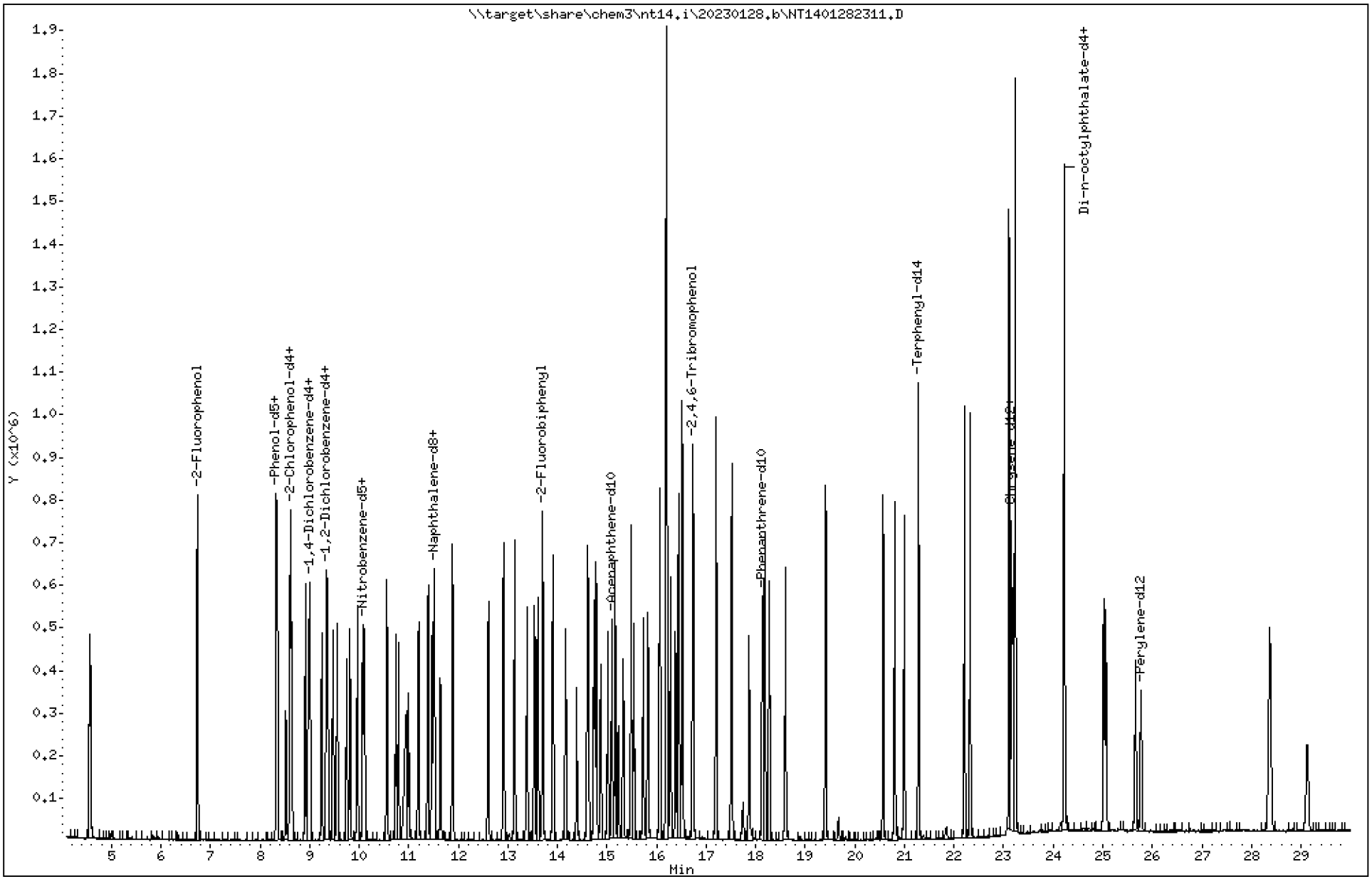
Client ID:
Sample Info: SLA0338-SCV1

Instrument: nt14.i
Operator: JGR
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

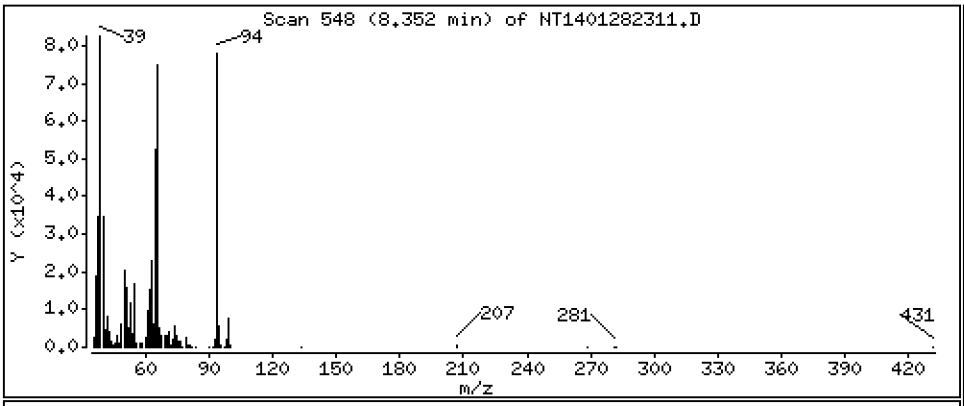
Operator: JGR

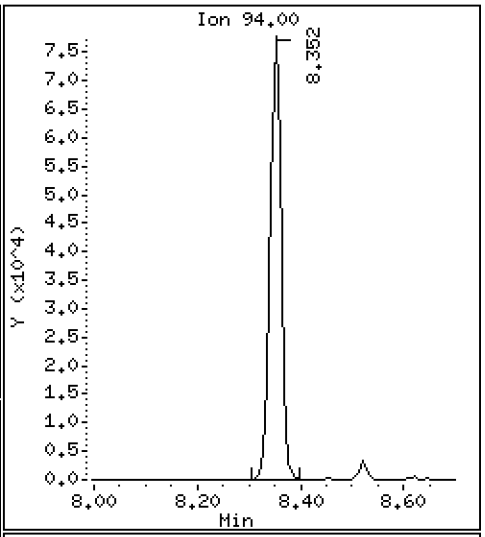
Column phase: ZB-5msi

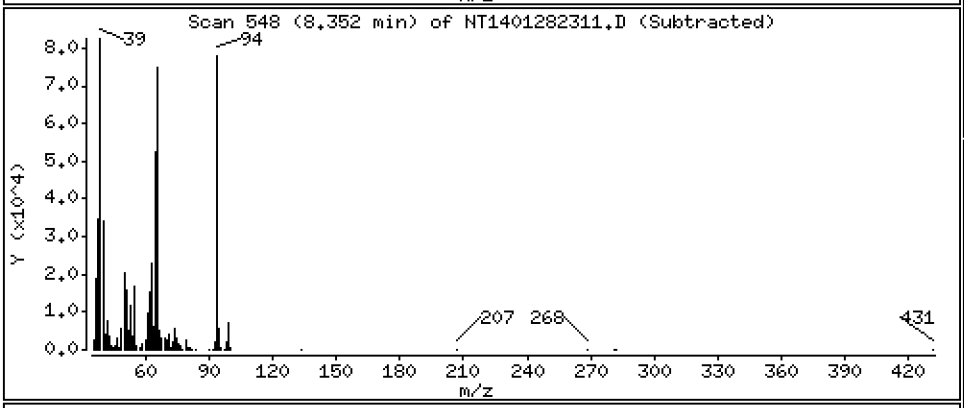
Column diameter: 0.25

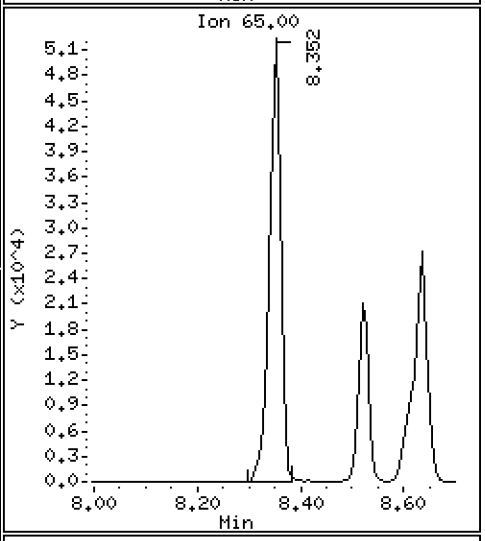
3 Phenol

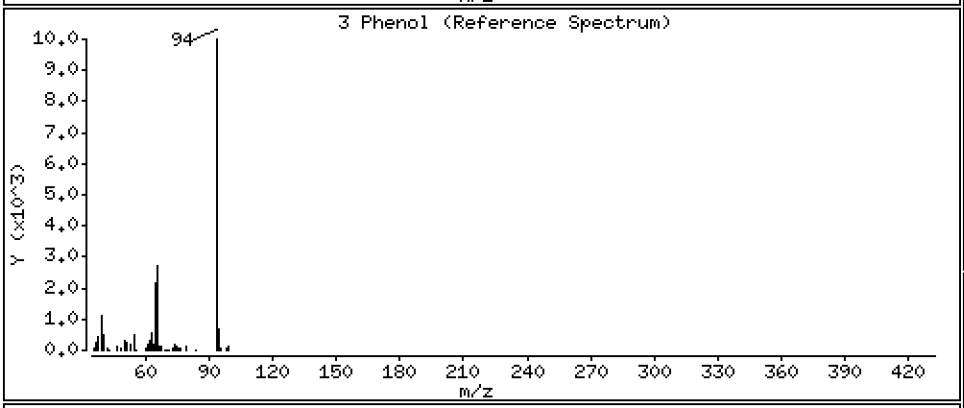
Concentration: 3.825 ug/mL

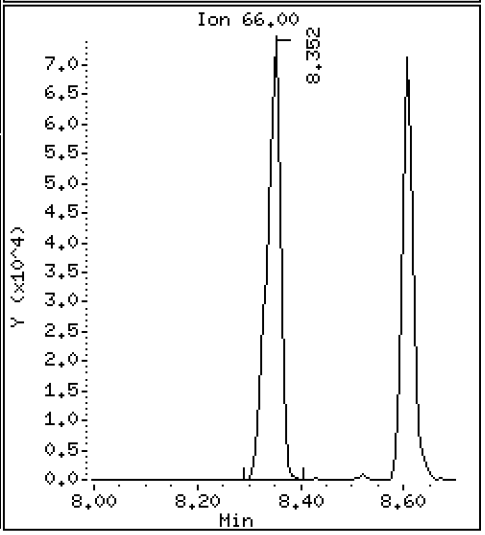


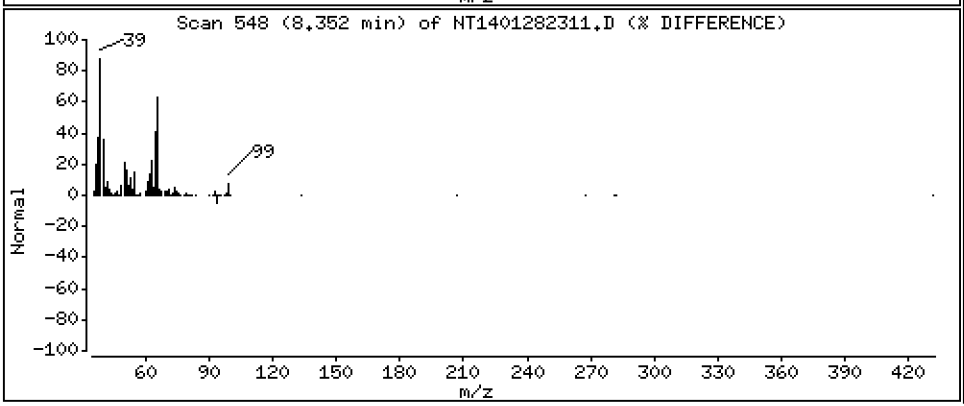












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

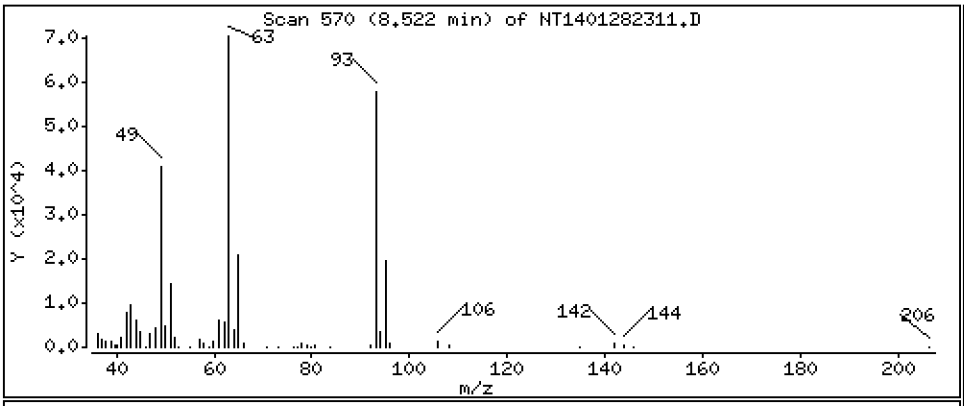
Operator: JGR

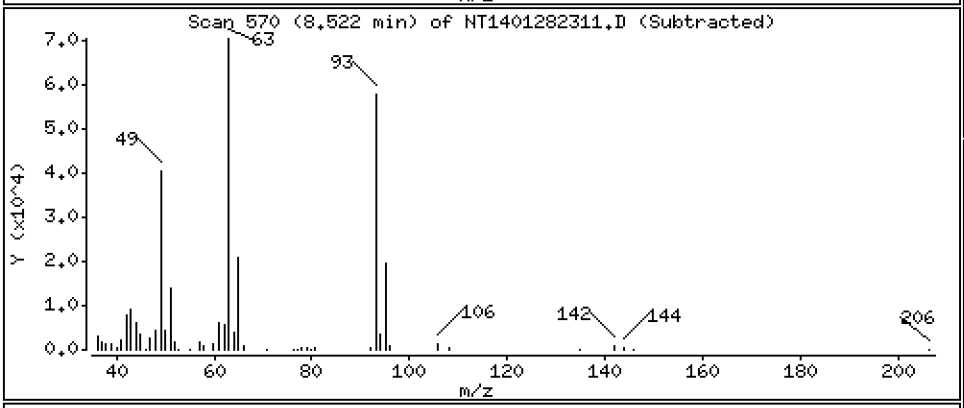
Column phase: ZB-5msi

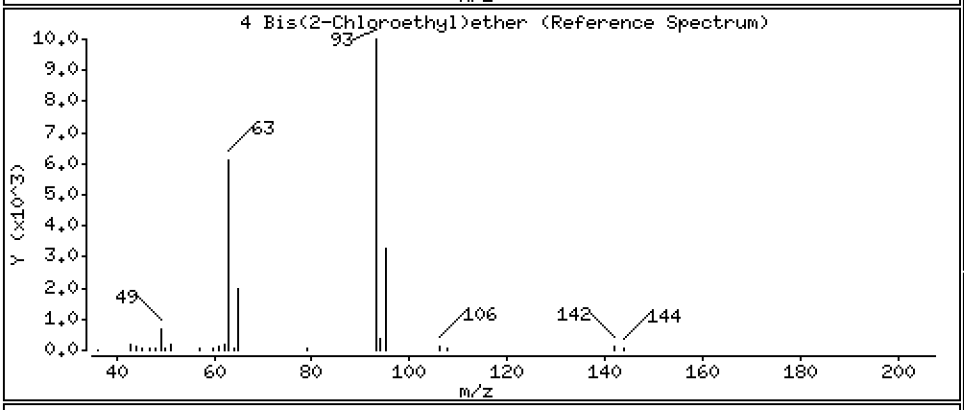
Column diameter: 0.25

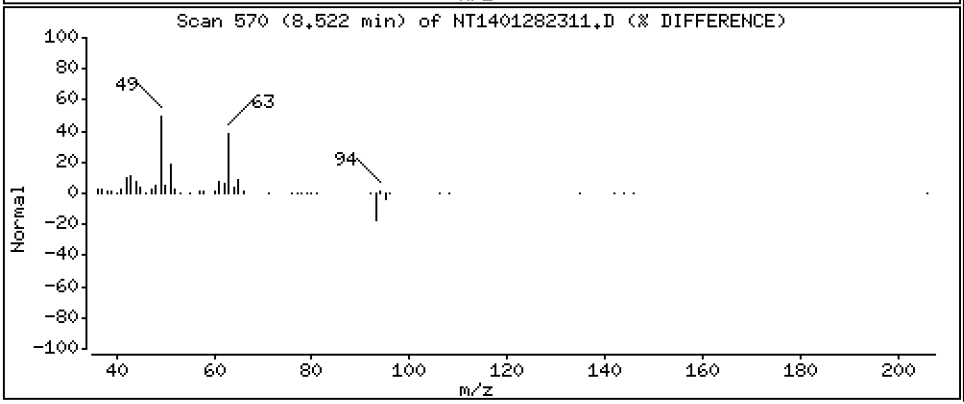
4 Bis(2-Chloroethyl)ether

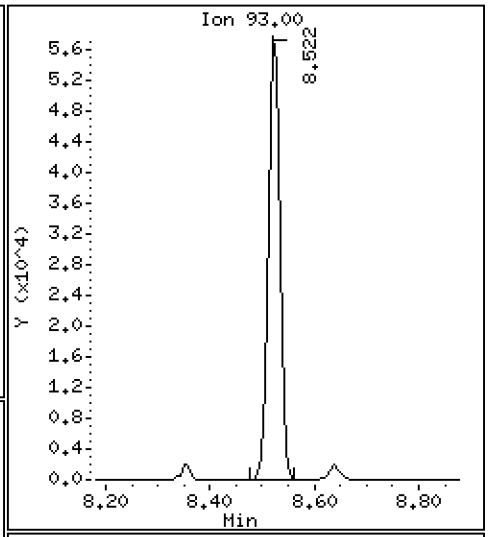
Concentration: 5.320 ug/mL

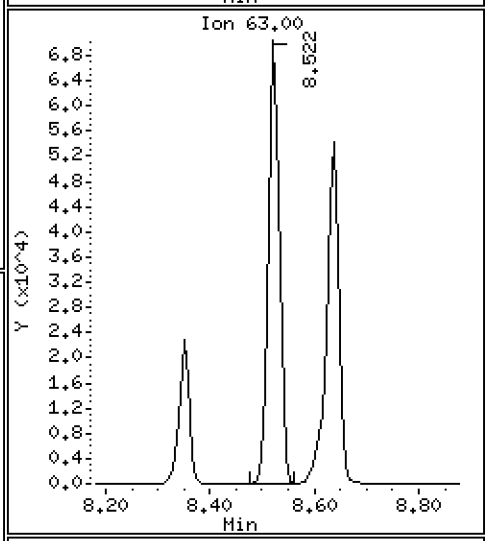


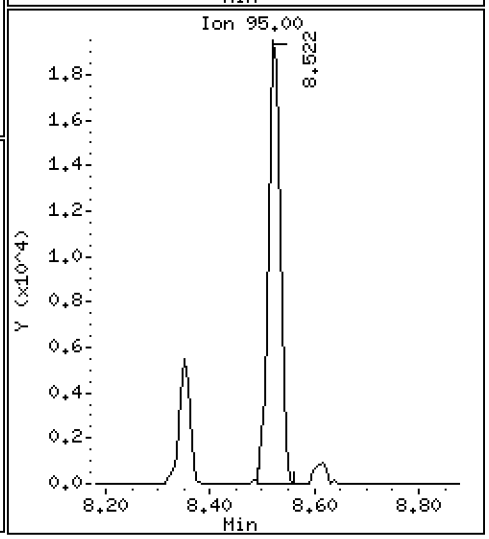












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

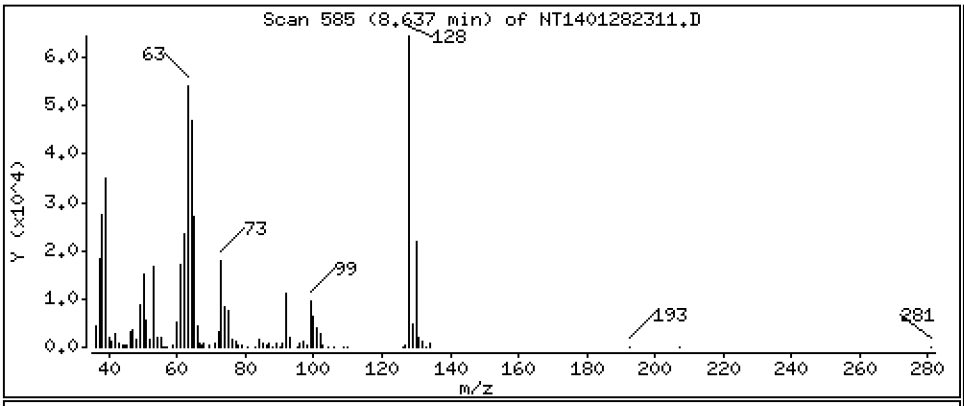
Operator: JGR

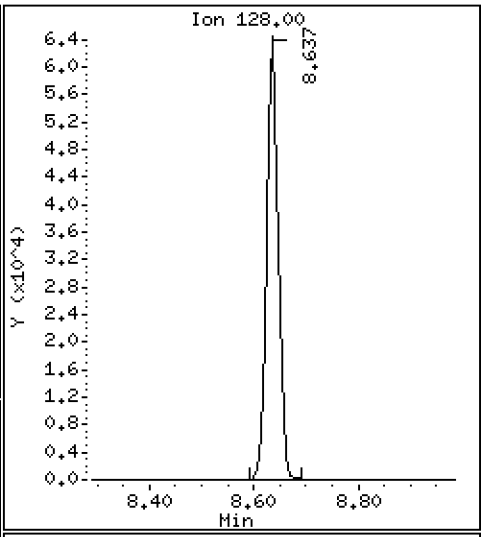
Column phase: ZB-5msi

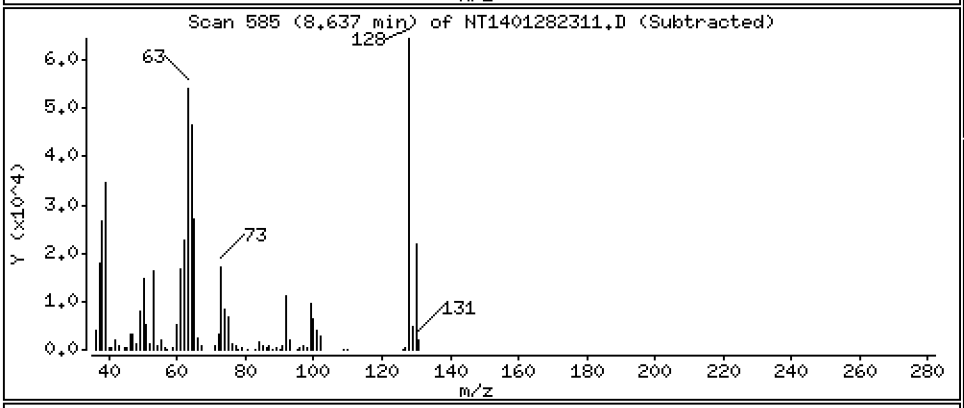
Column diameter: 0.25

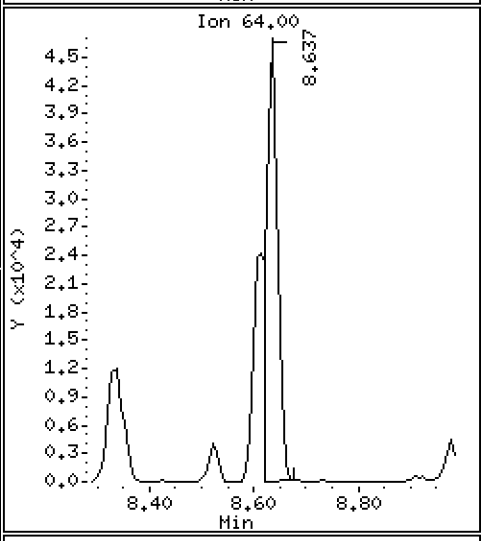
6 2-Chlorophenol

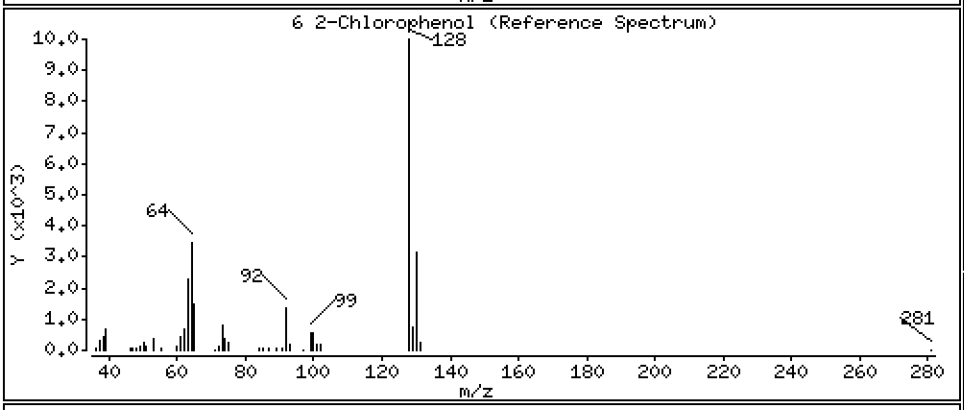
Concentration: 4.135 ug/mL

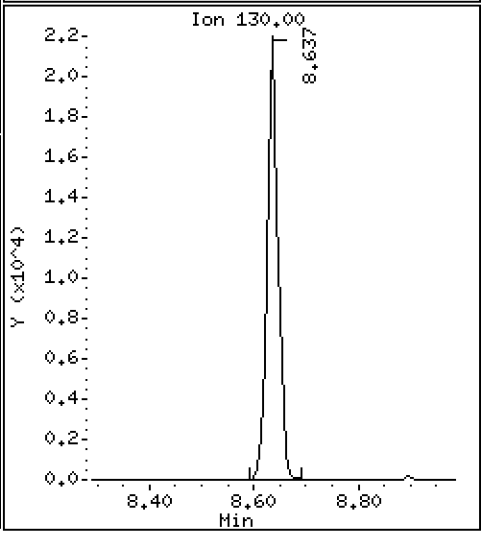


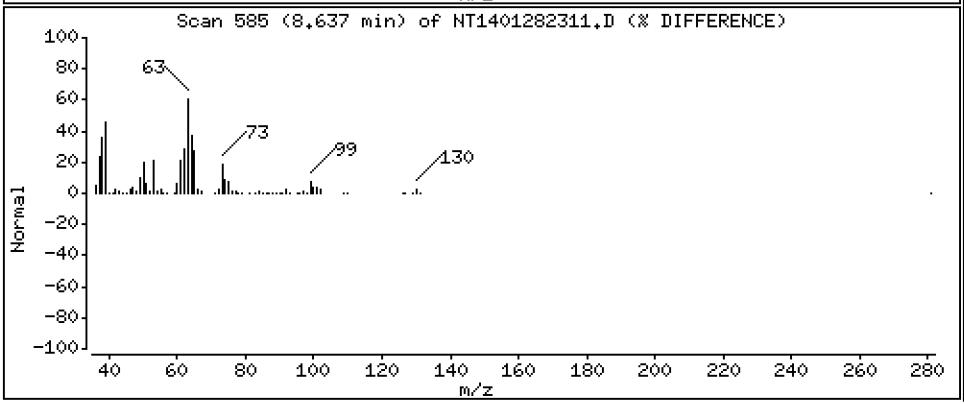












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

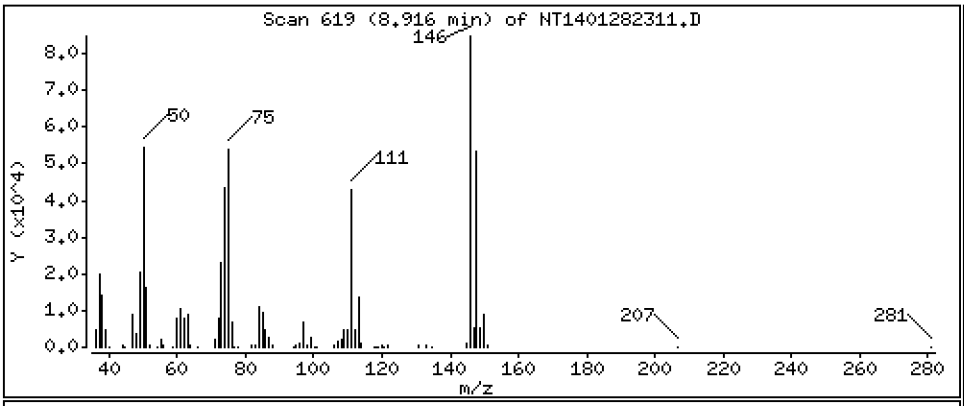
Operator: JGR

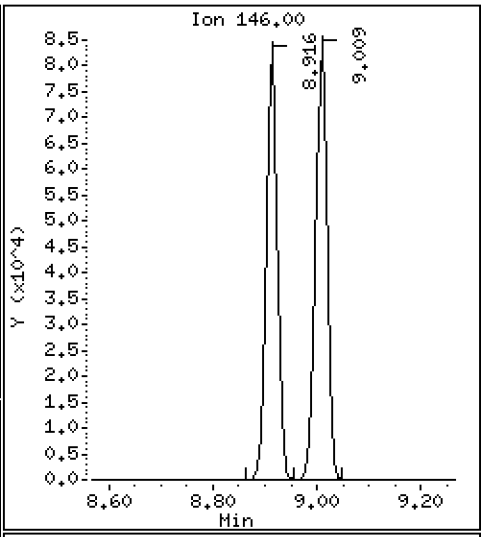
Column phase: ZB-5msi

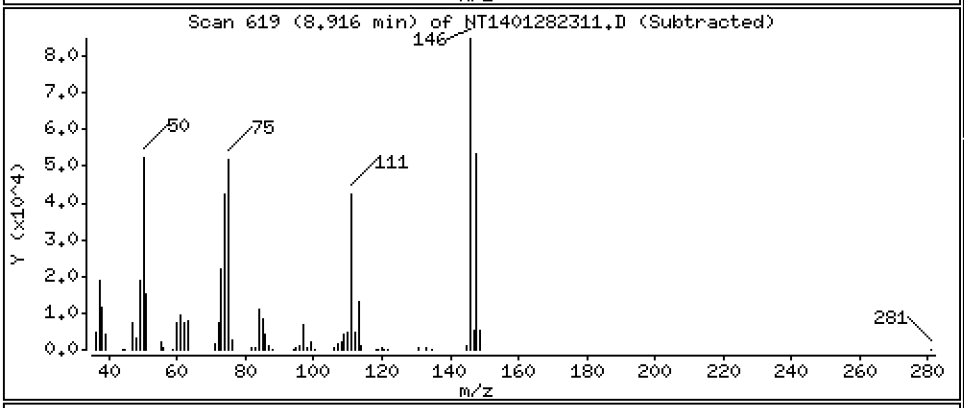
Column diameter: 0.25

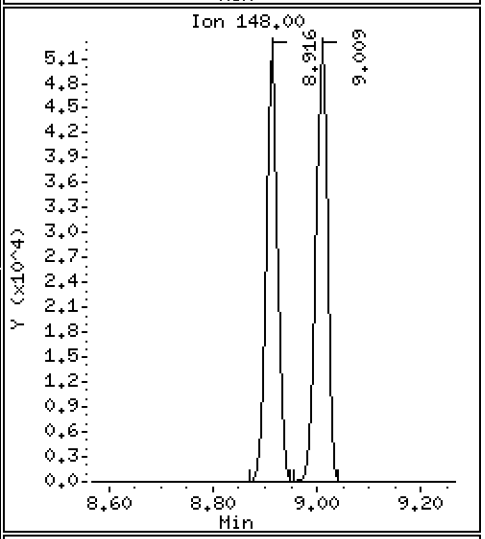
7 1,3-Dichlorobenzene

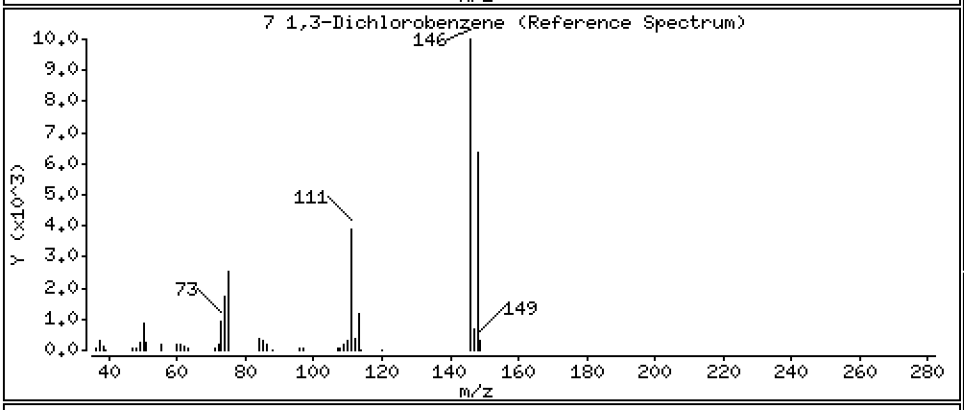
Concentration: 4.675 ug/mL

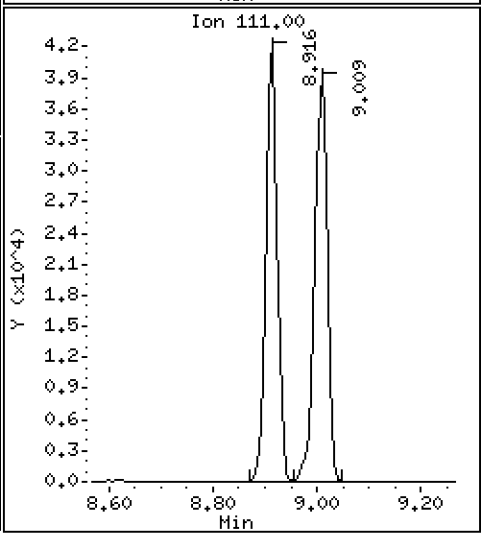


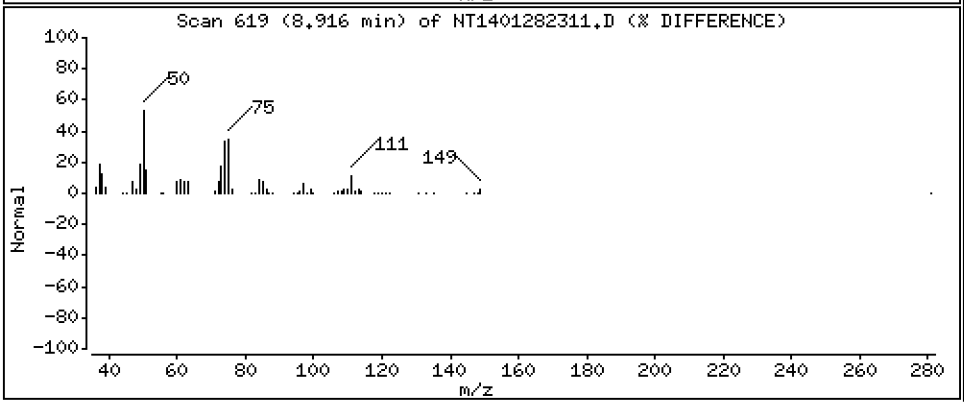












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

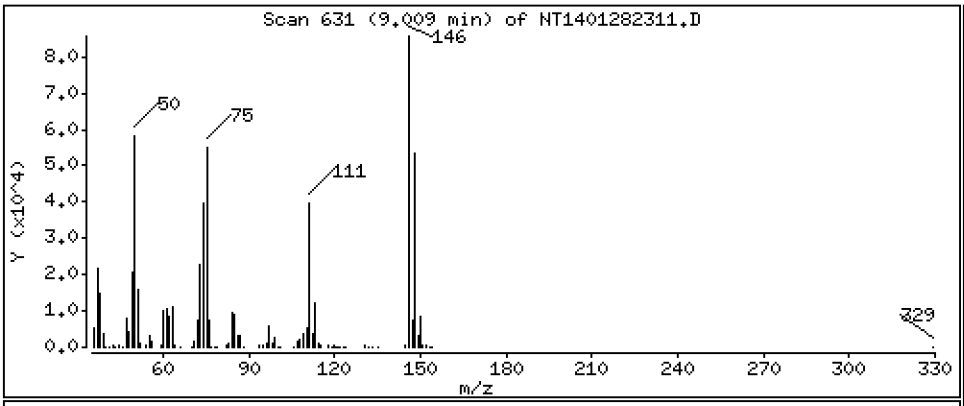
Operator: JGR

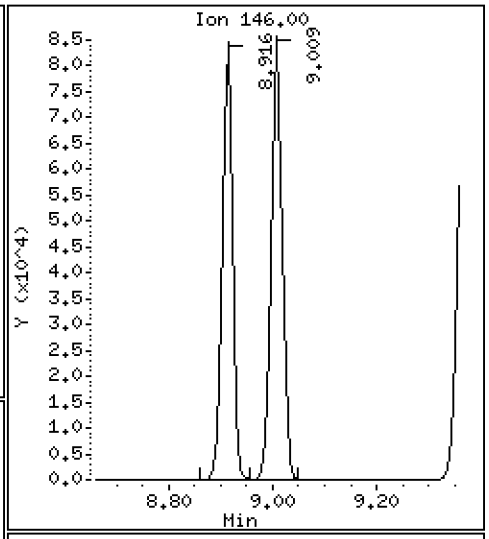
Column phase: ZB-5msi

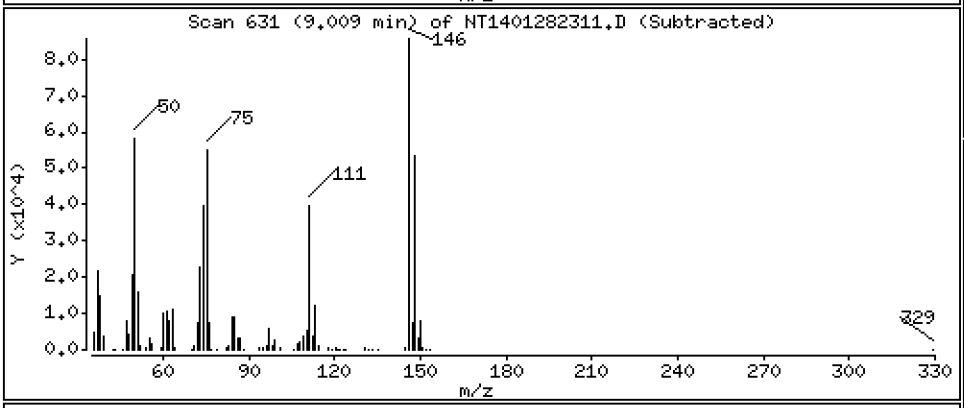
Column diameter: 0.25

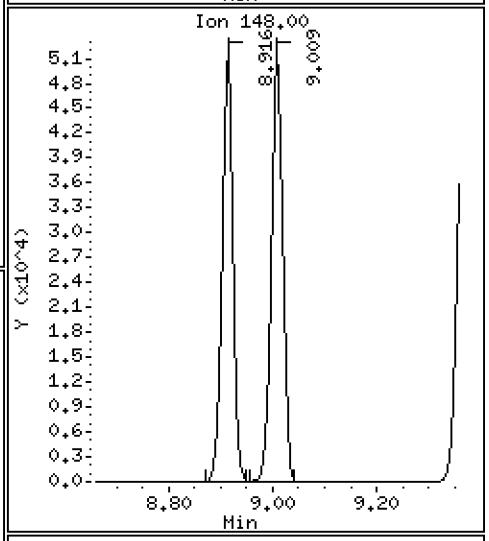
9 1,4-Dichlorobenzene

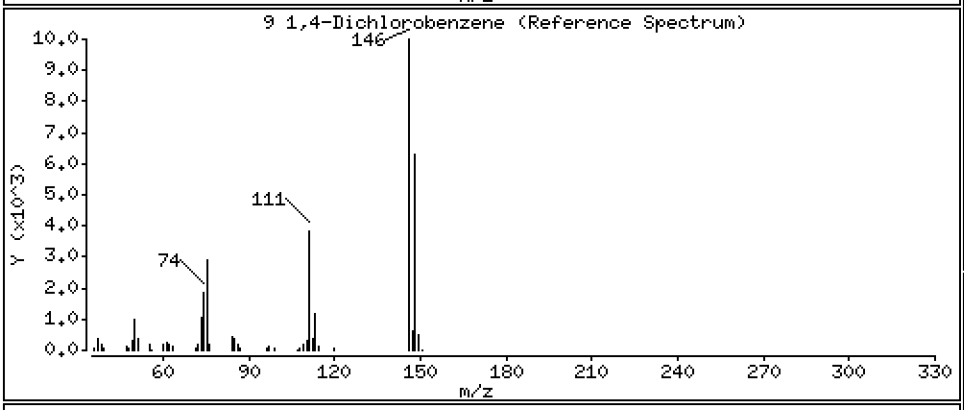
Concentration: 4.650 ug/mL

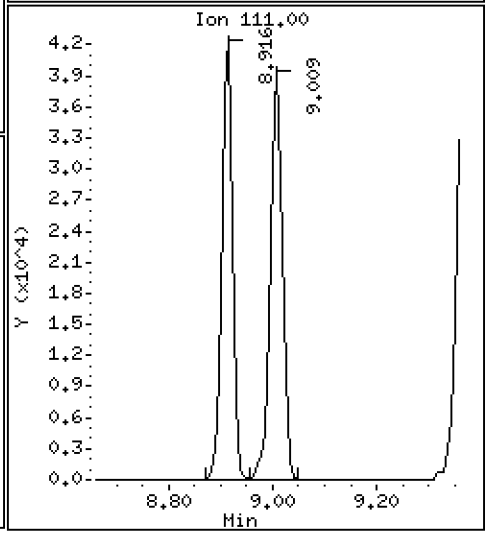


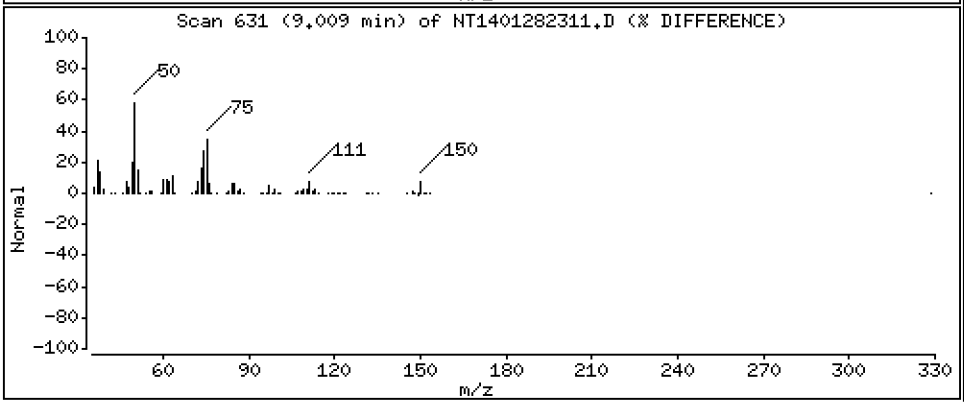












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

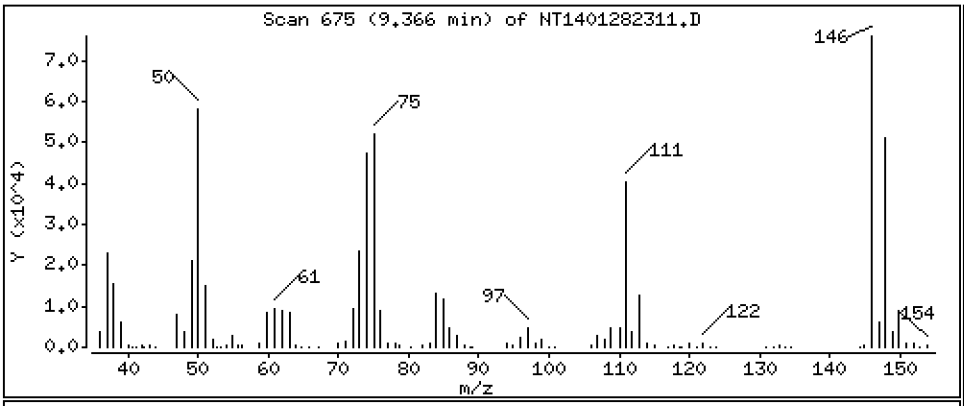
Operator: JGR

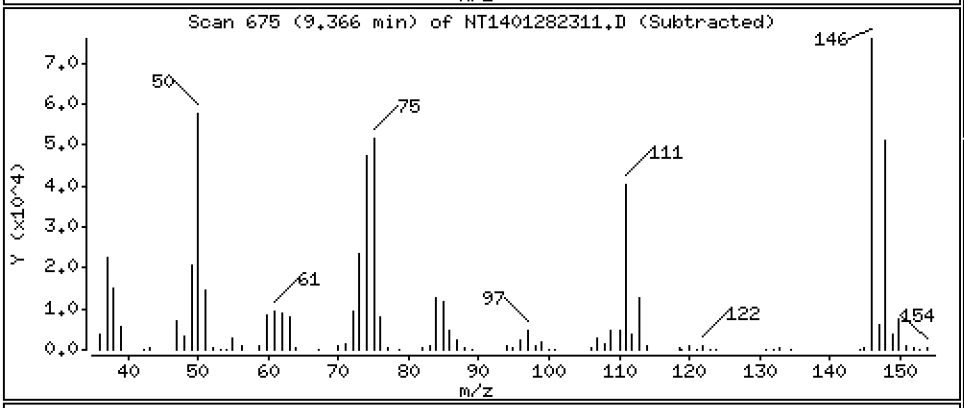
Column phase: ZB-5msi

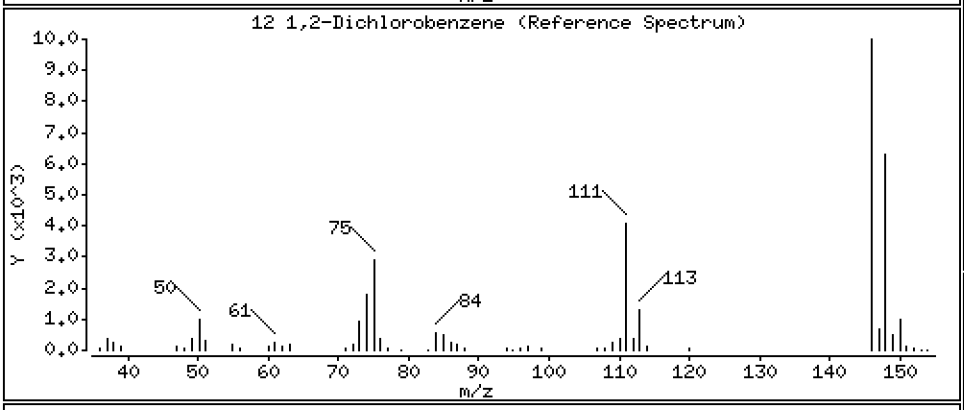
Column diameter: 0.25

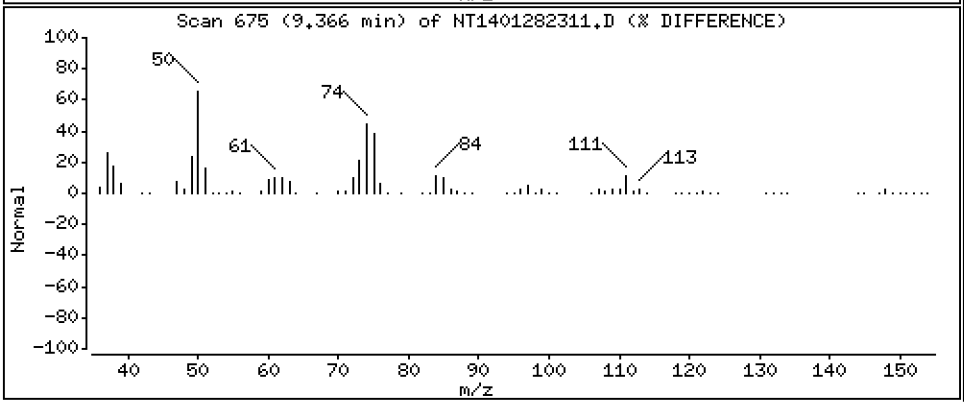
12 1,2-Dichlorobenzene

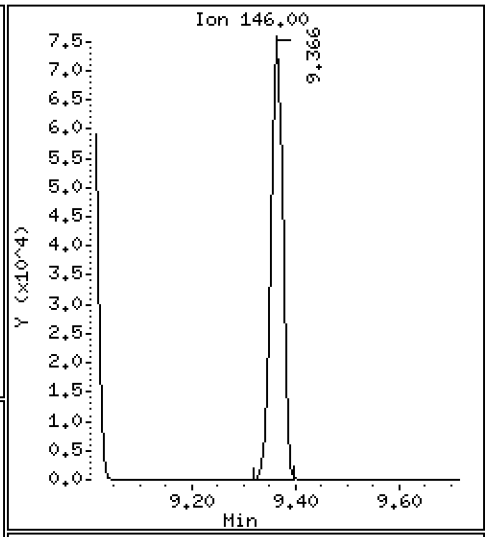
Concentration: 4.351 ug/mL

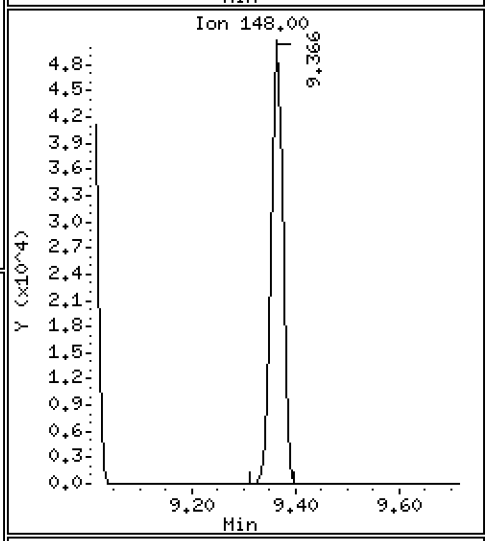


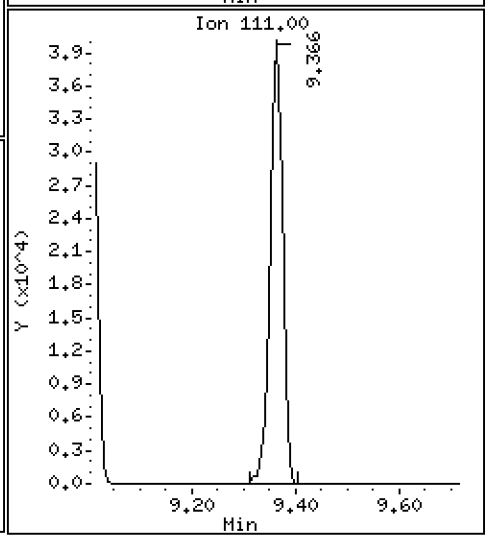












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

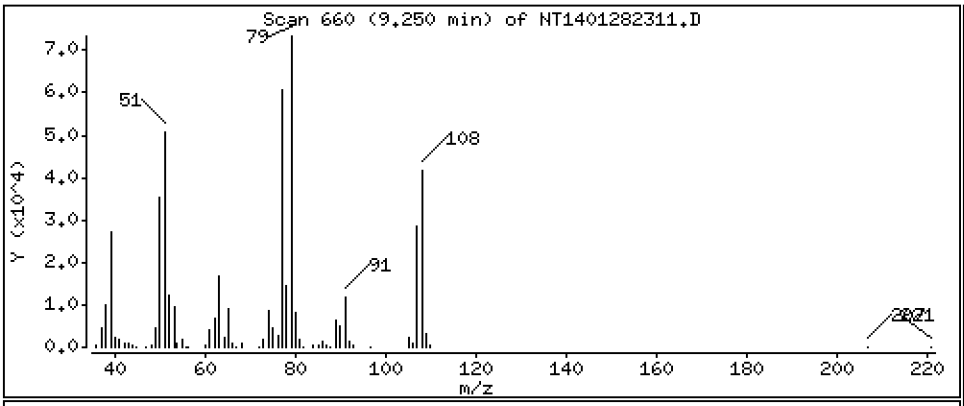
Operator: JGR

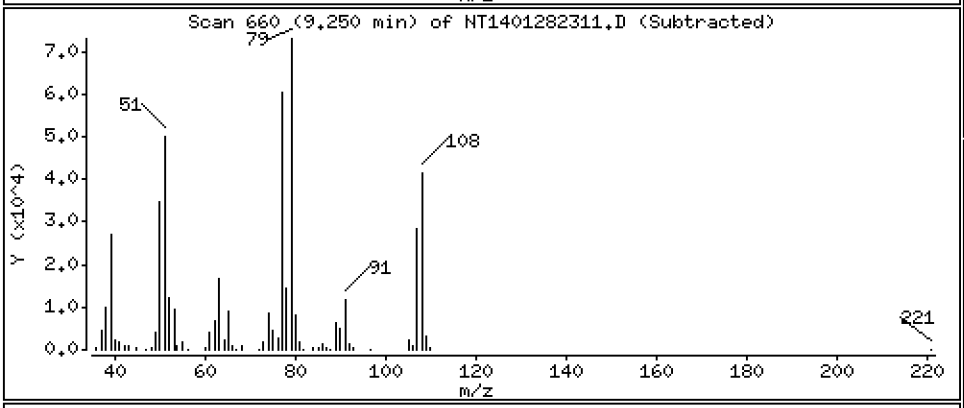
Column phase: ZB-5msi

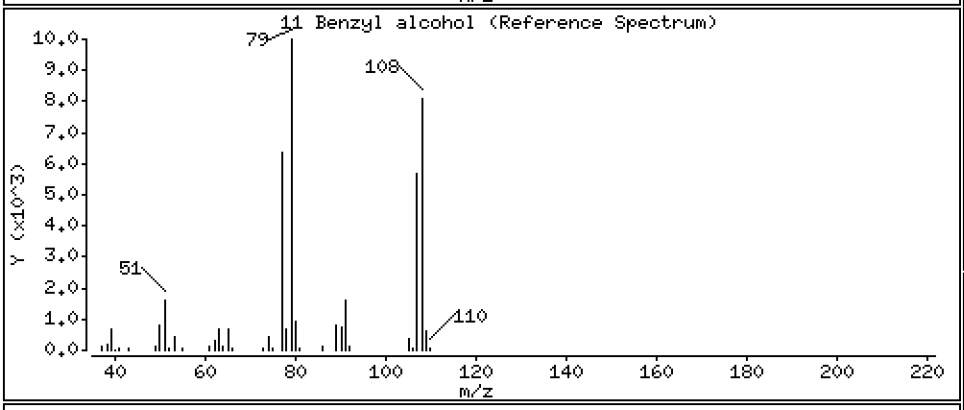
Column diameter: 0.25

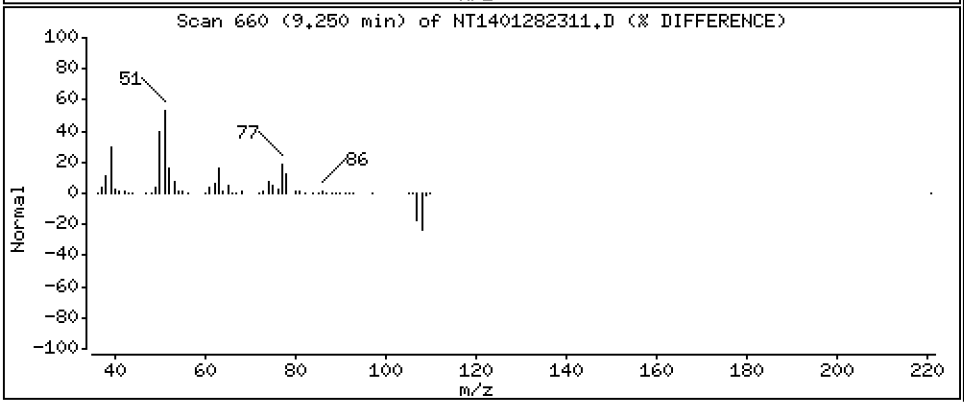
11 Benzyl alcohol

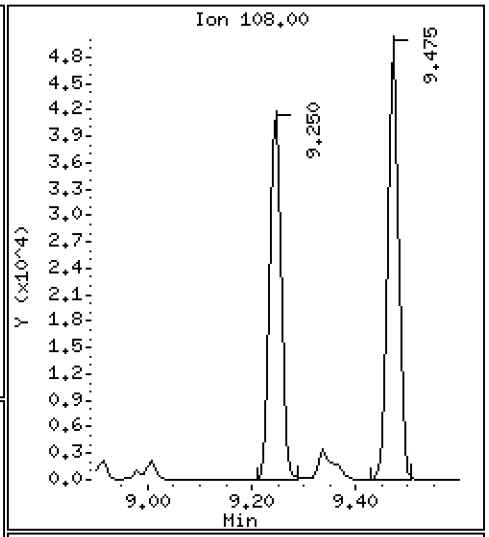
Concentration: 4.416 ug/mL

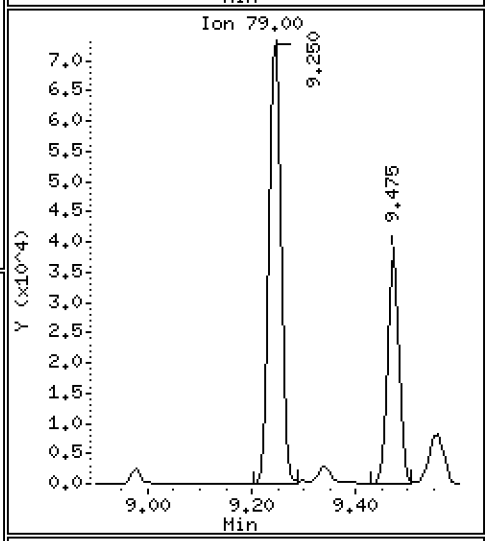


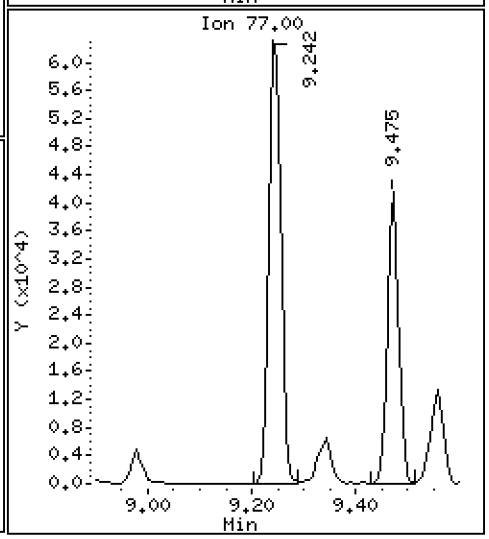












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

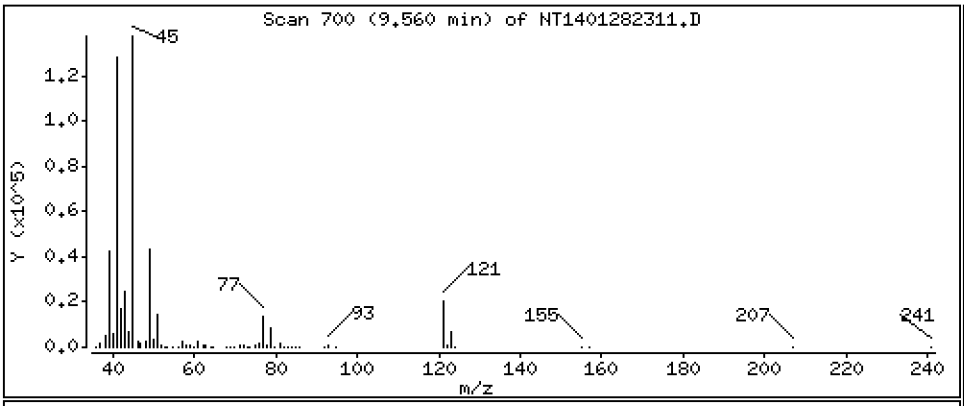
Operator: JGR

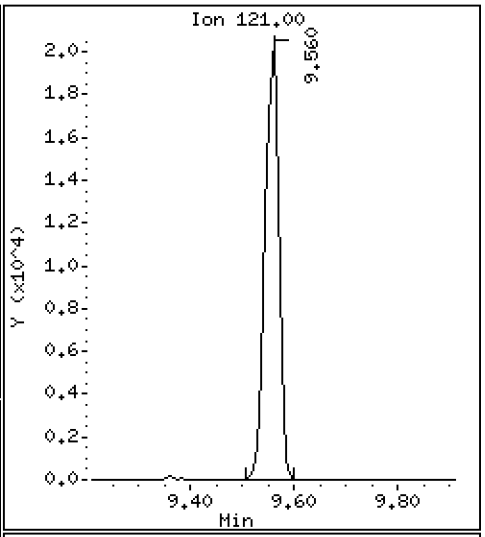
Column phase: ZB-5msi

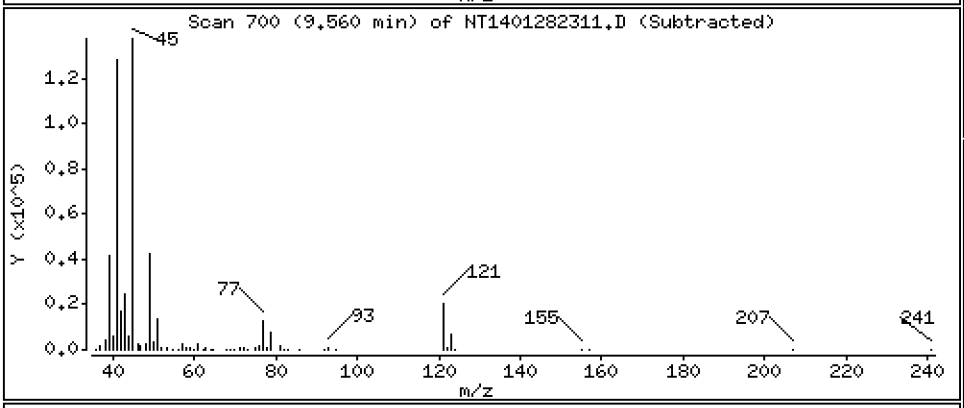
Column diameter: 0.25

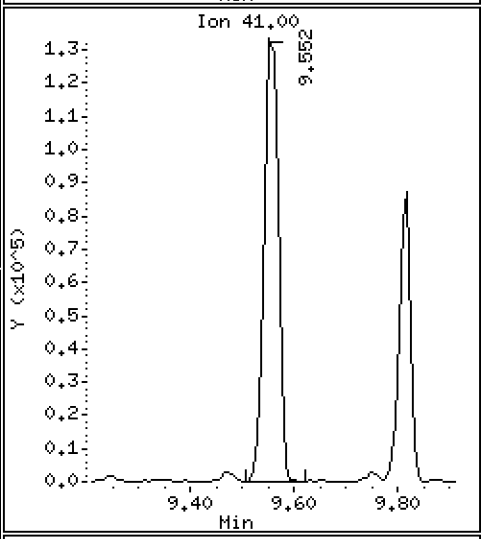
14 2,2'-oxybis(1-Chloropropane)

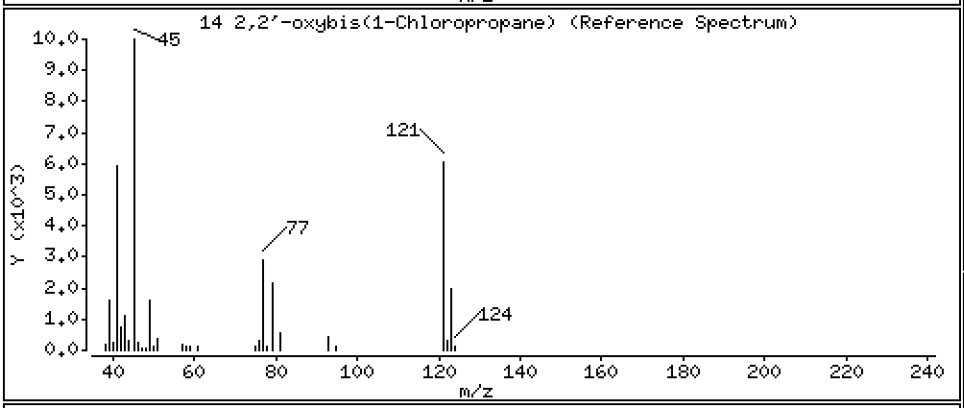
Concentration: 4.977 ug/mL

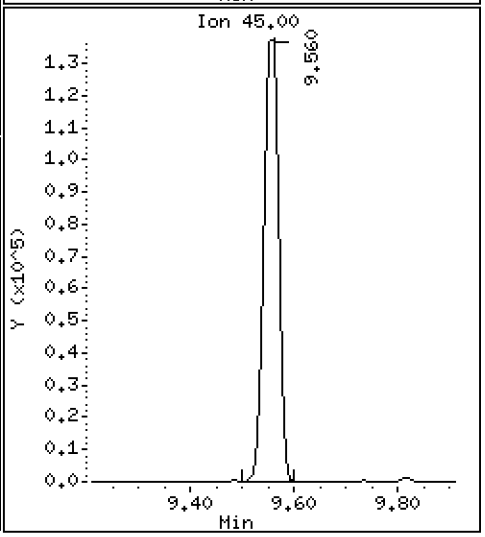


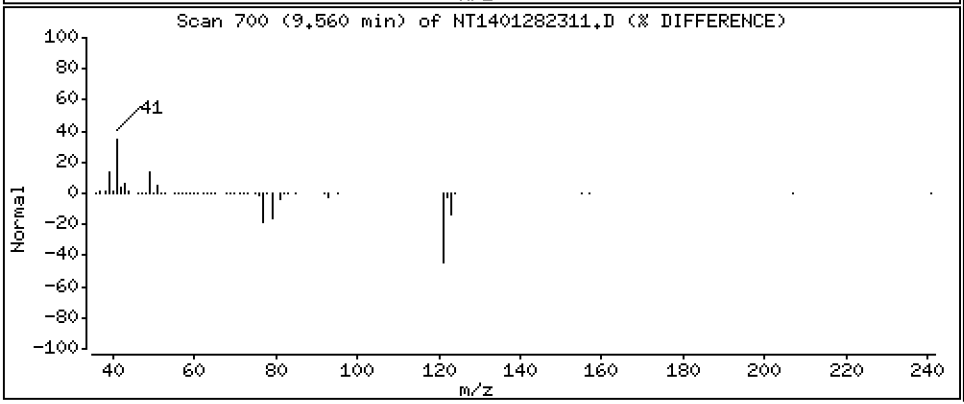












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

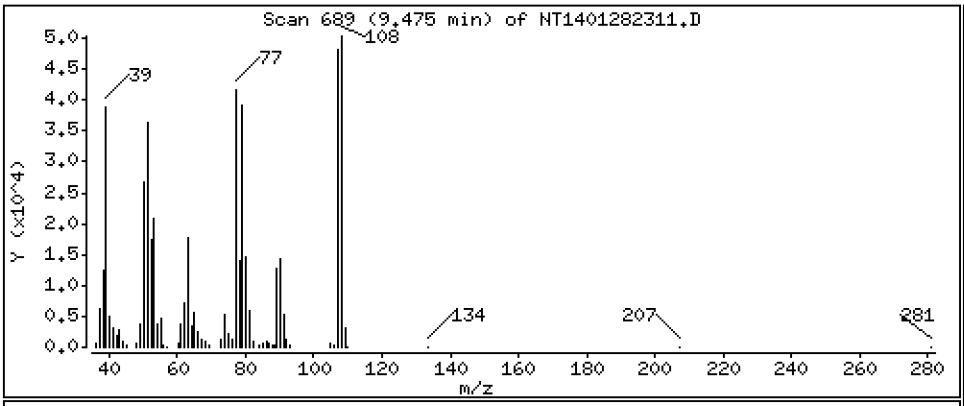
Operator: JGR

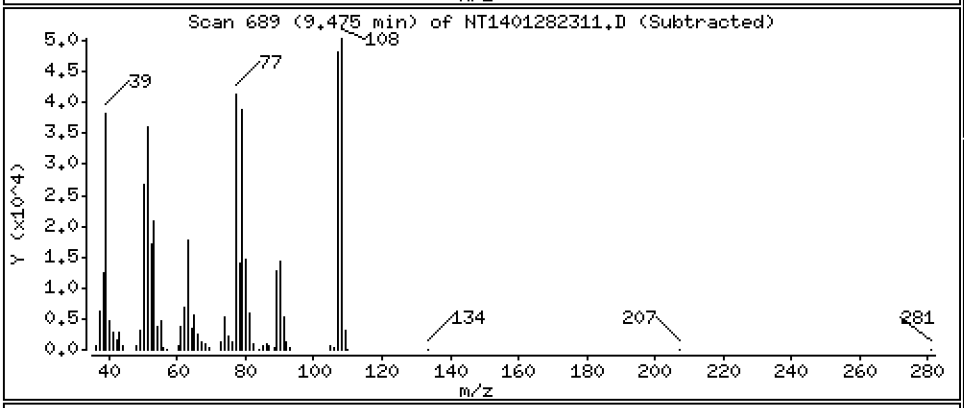
Column phase: ZB-5msi

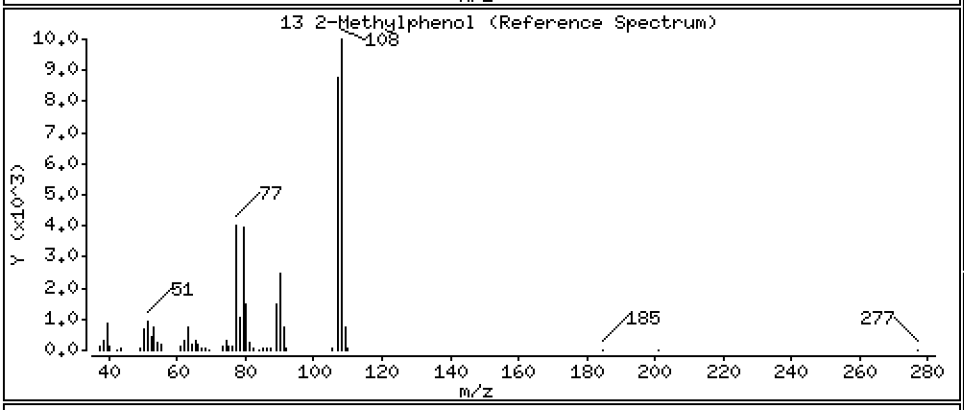
Column diameter: 0.25

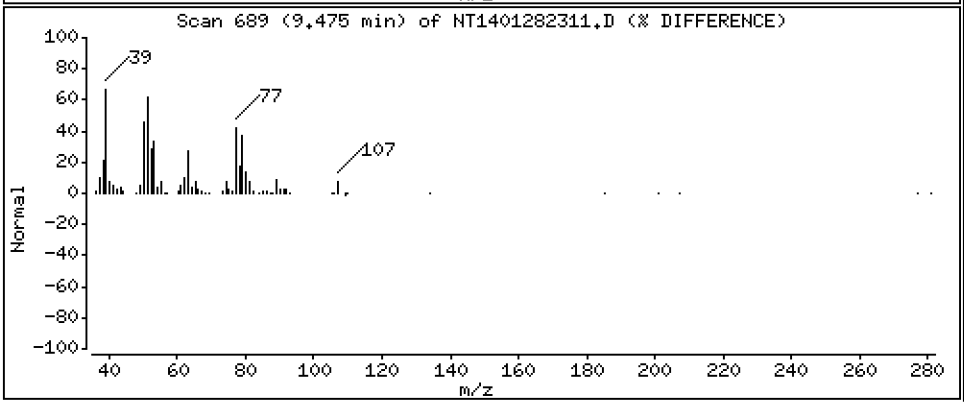
13 2-Methylphenol

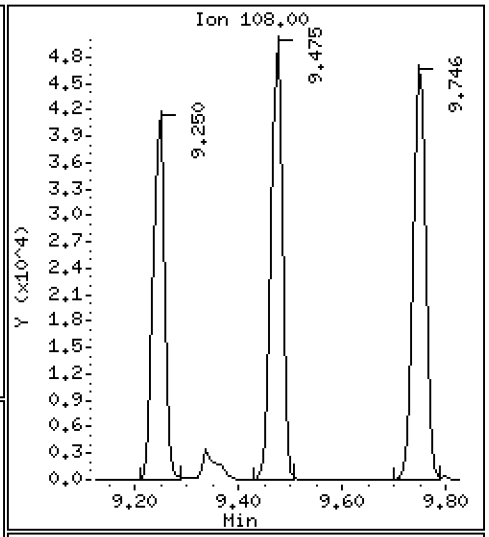
Concentration: 3.303 ug/mL

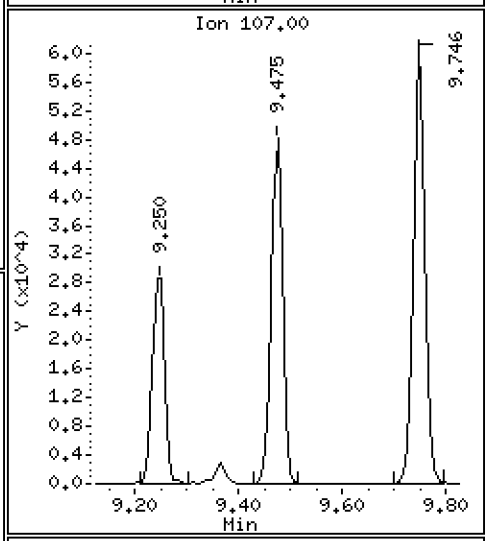


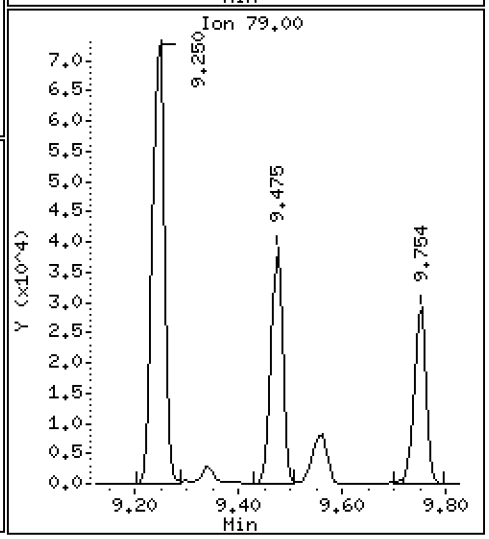












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

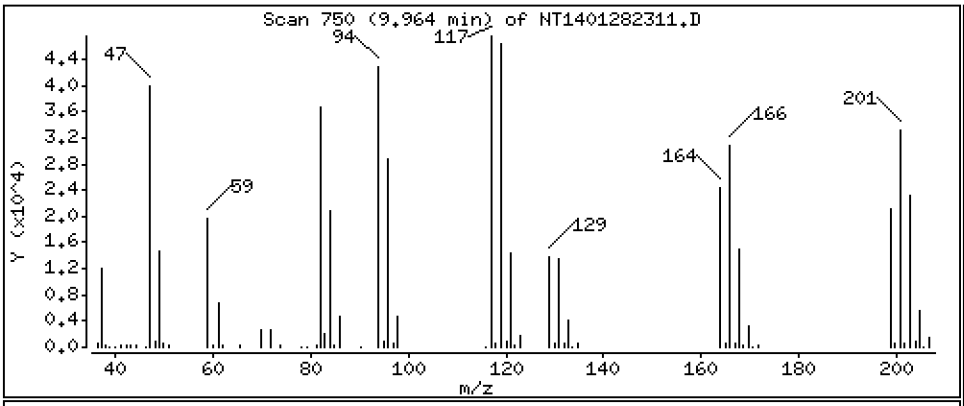
Operator: JGR

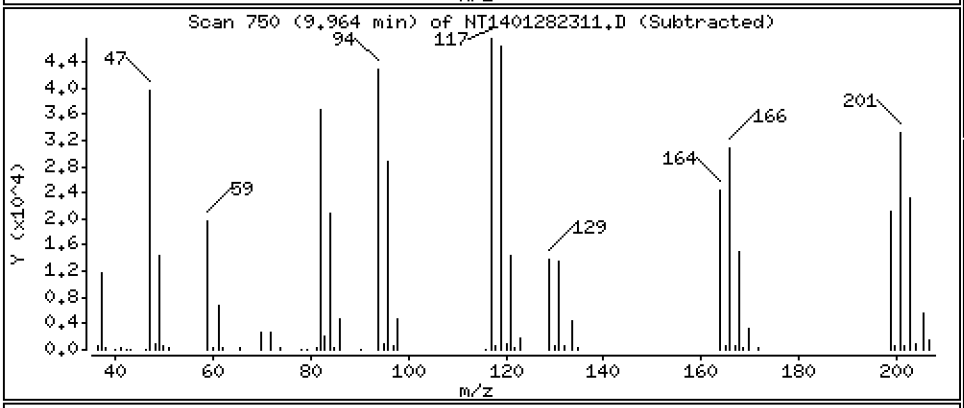
Column phase: ZB-5msi

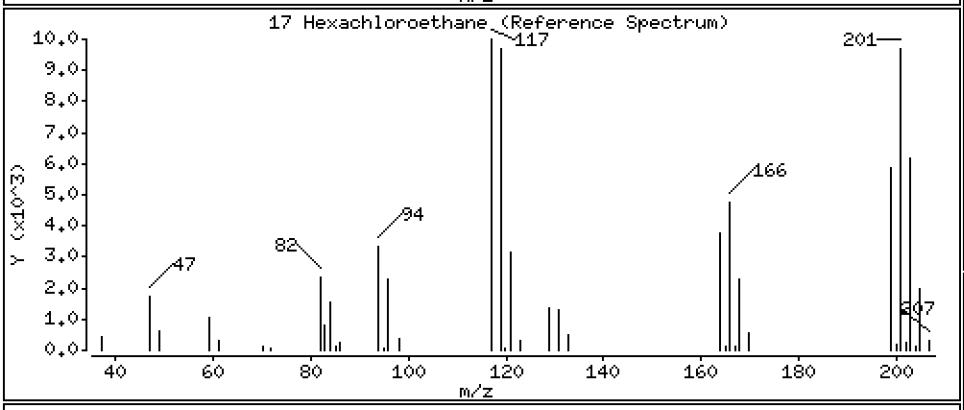
Column diameter: 0.25

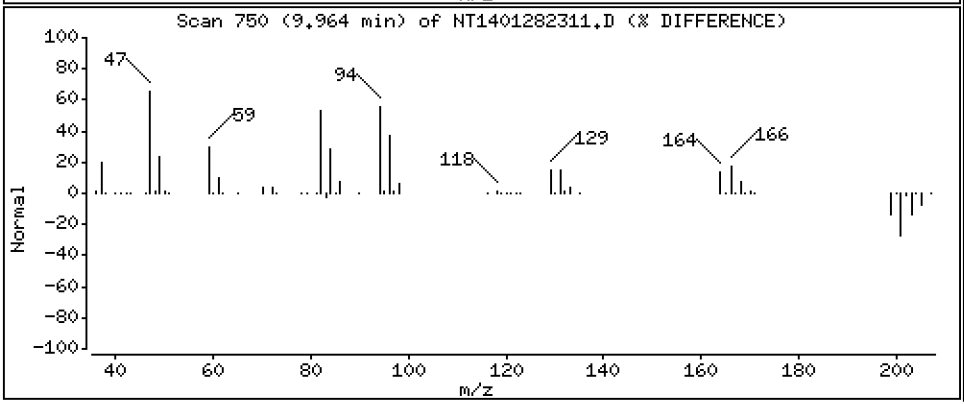
17 Hexachloroethane

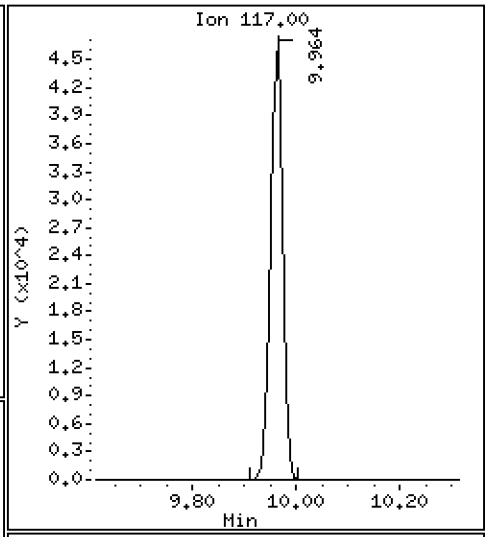
Concentration: 4.493 ug/mL

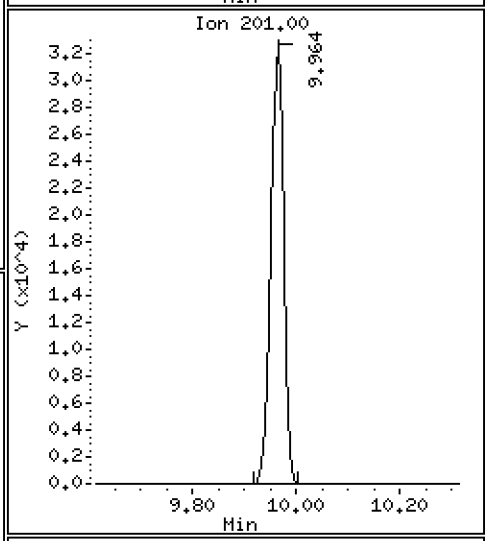


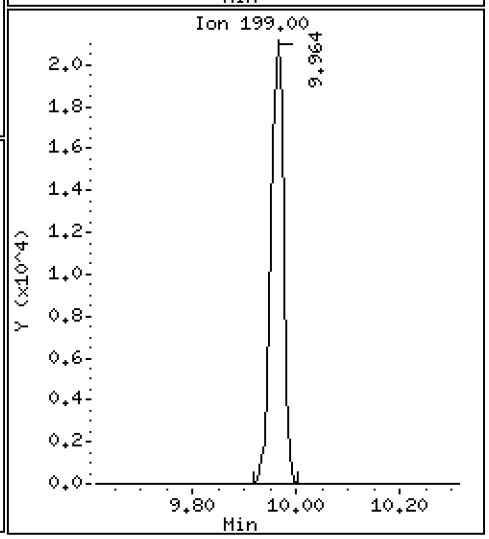












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

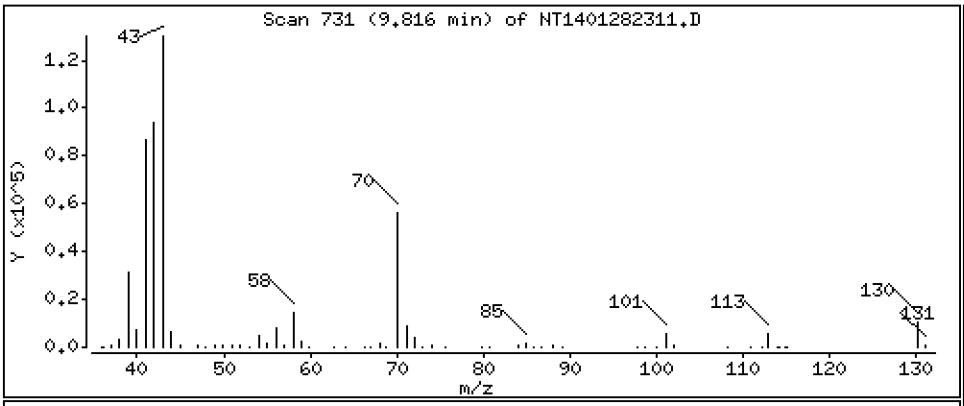
Operator: JGR

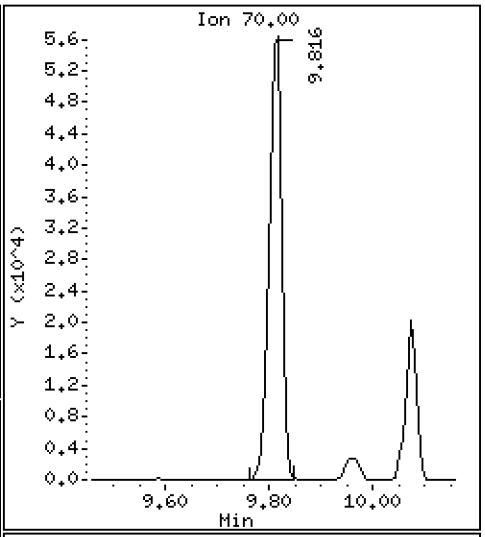
Column phase: ZB-5msi

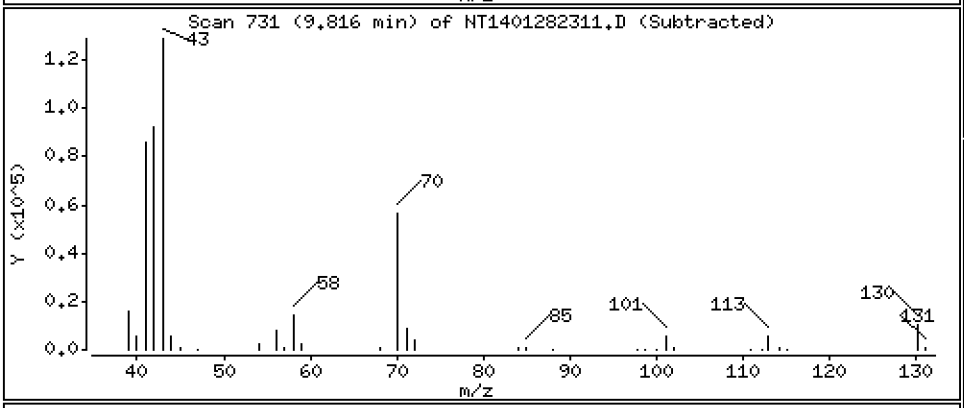
Column diameter: 0.25

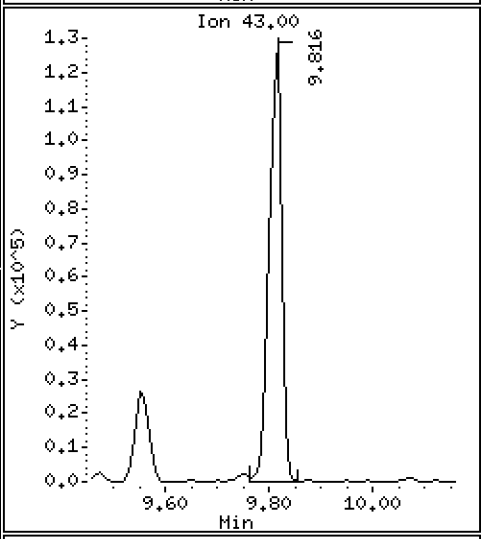
16 N-Nitroso-di-n-propylamine

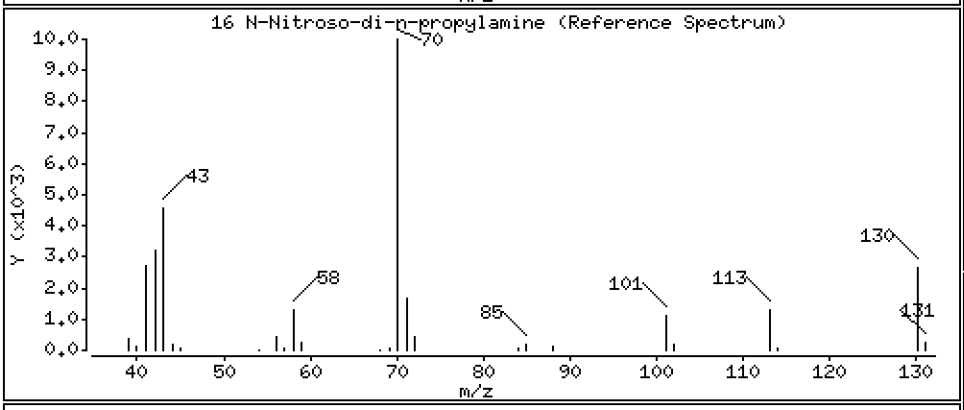
Concentration: 4.835 ug/mL

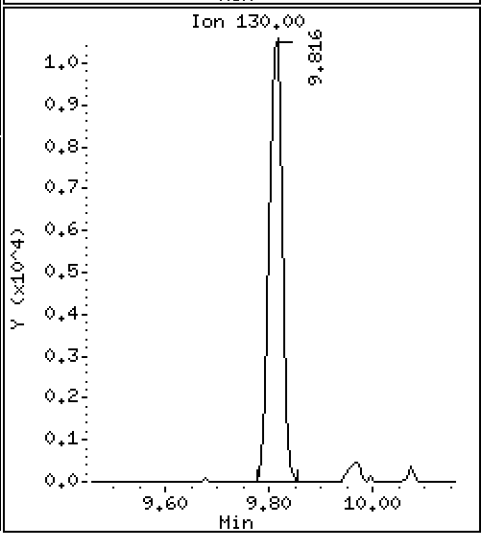


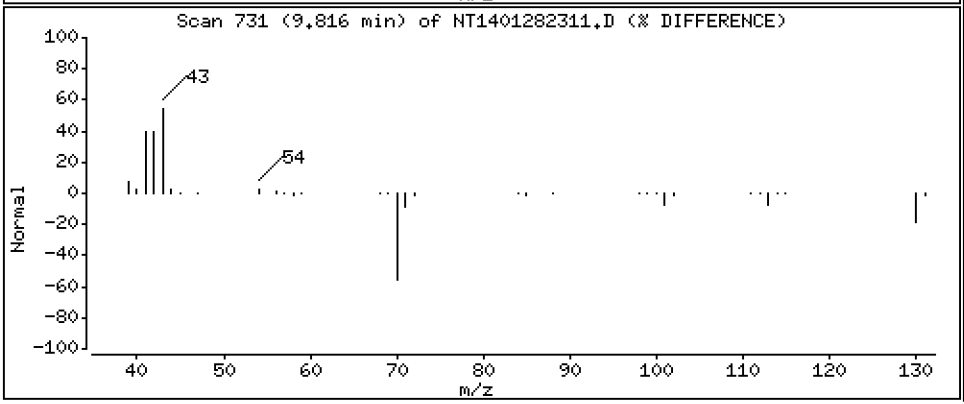












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

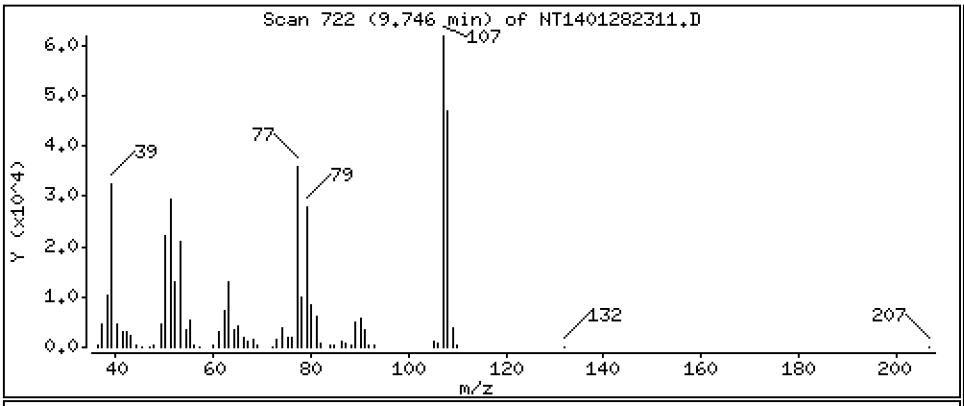
Operator: JGR

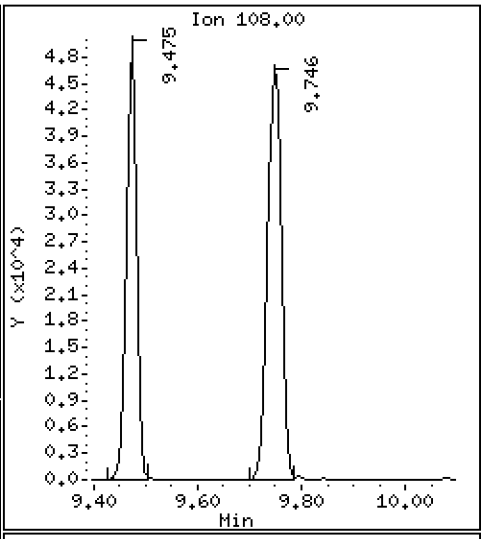
Column phase: ZB-5msi

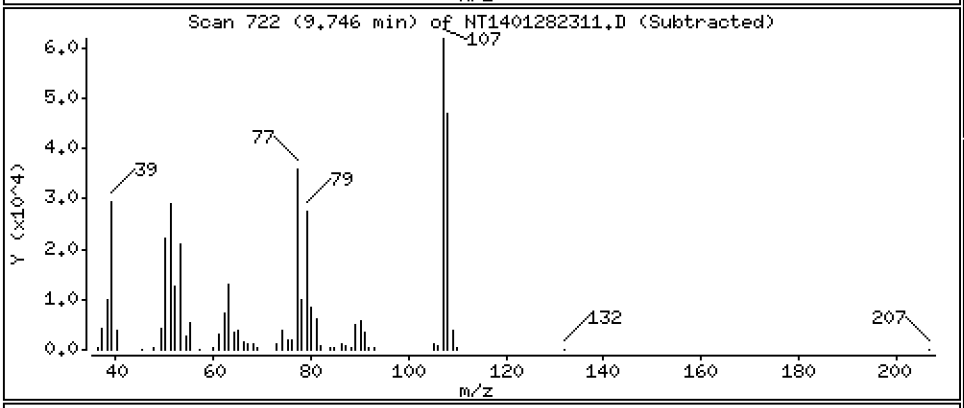
Column diameter: 0.25

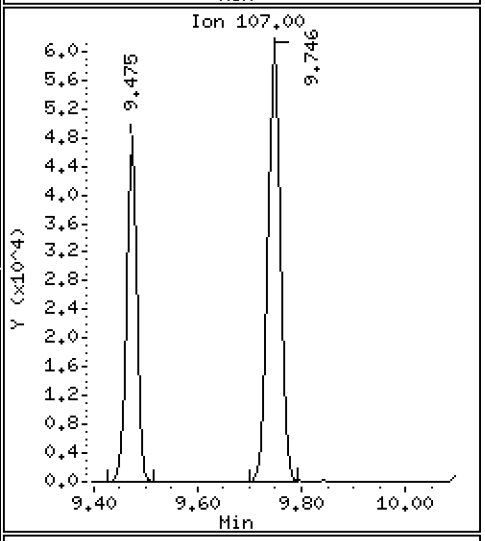
15 4-Methylphenol

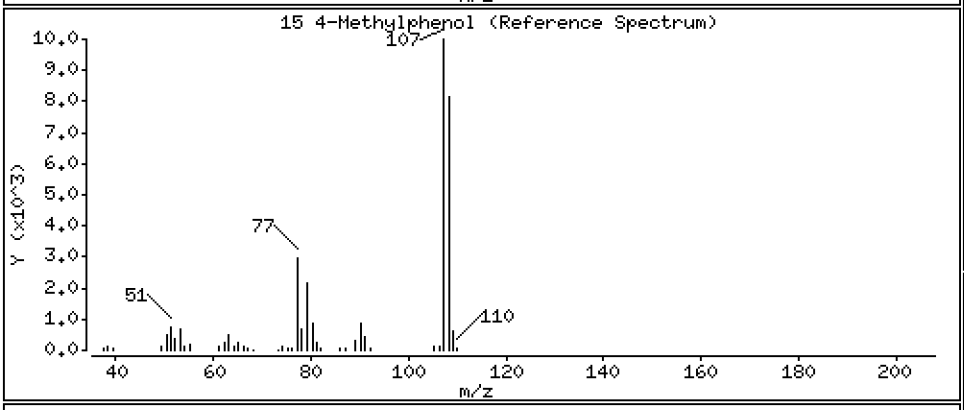
Concentration: 3.427 ug/mL

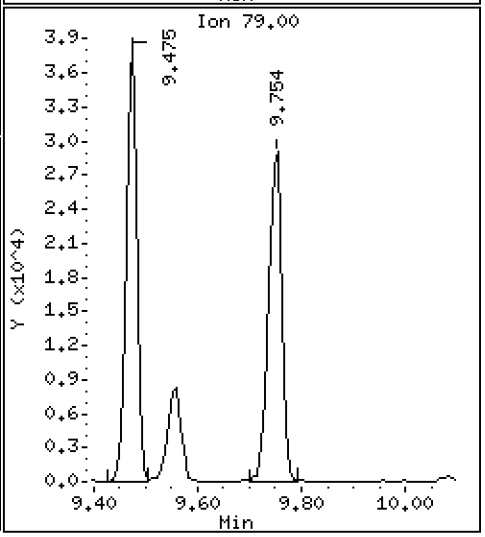


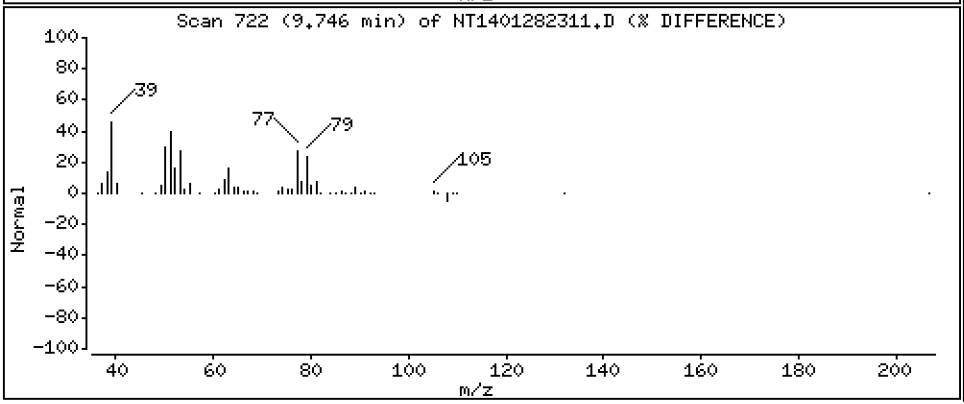












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

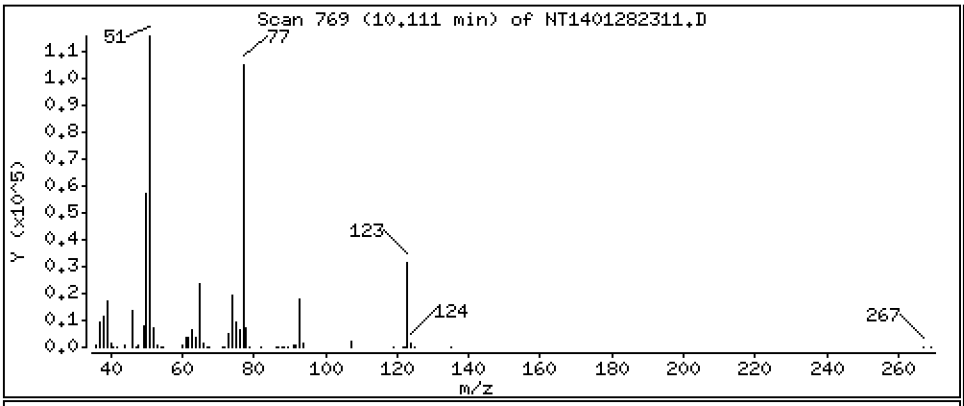
Operator: JGR

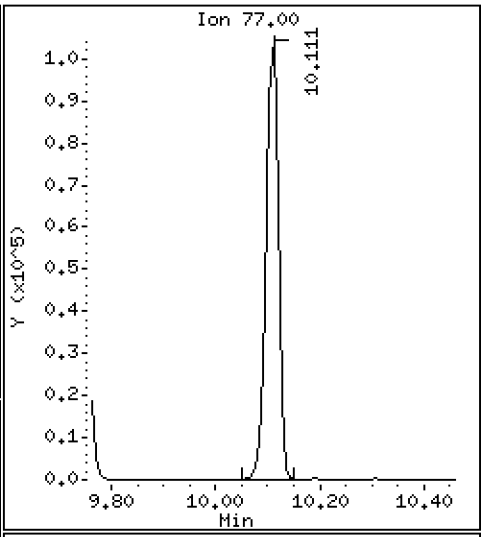
Column phase: ZB-5msi

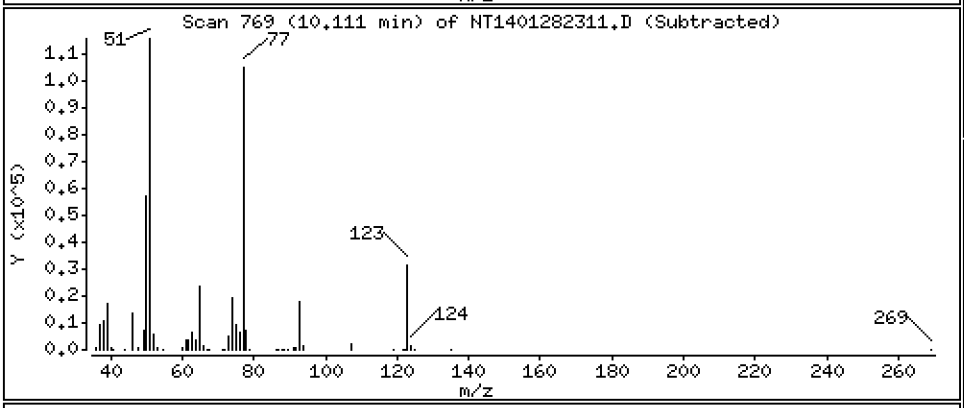
Column diameter: 0.25

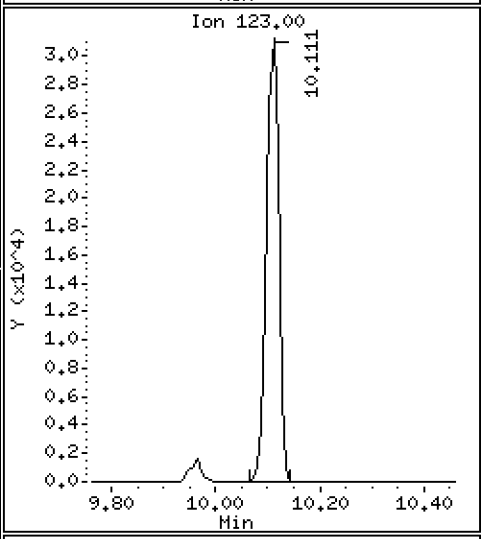
19 Nitrobenzene

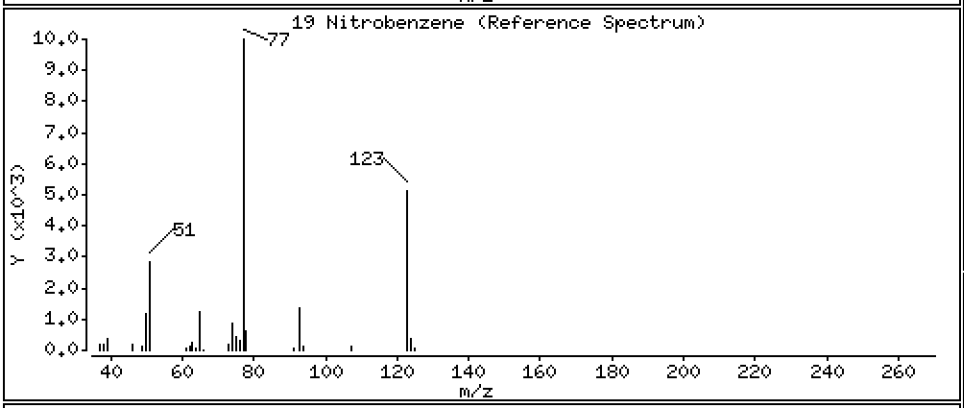
Concentration: 4.913 ug/mL

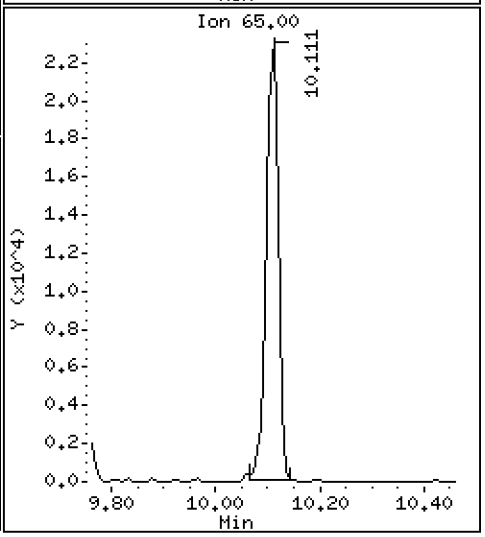


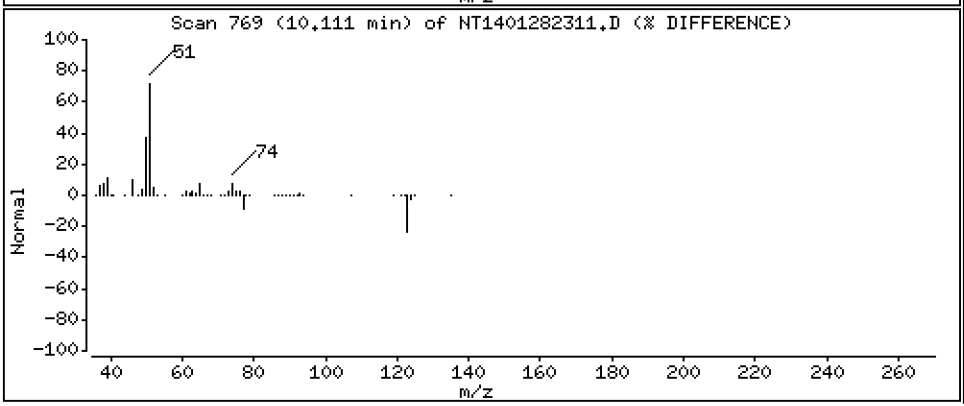












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

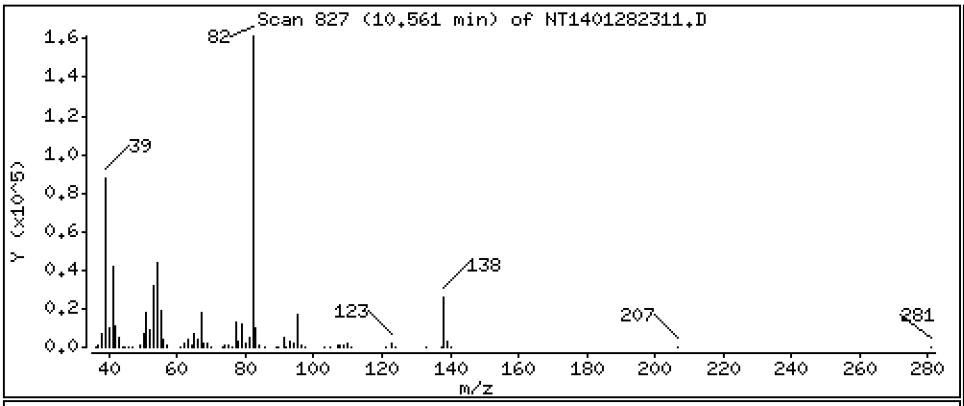
Operator: JGR

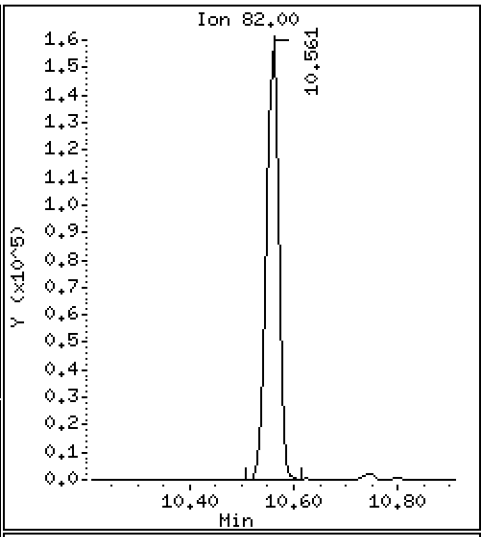
Column phase: ZB-5msi

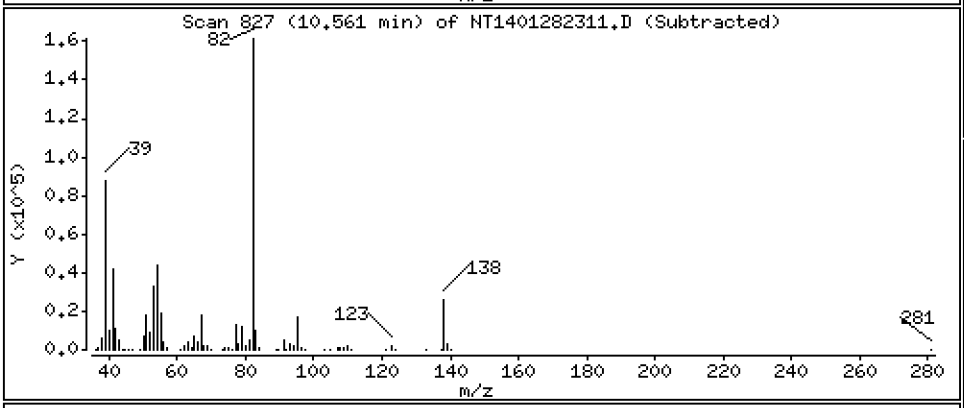
Column diameter: 0.25

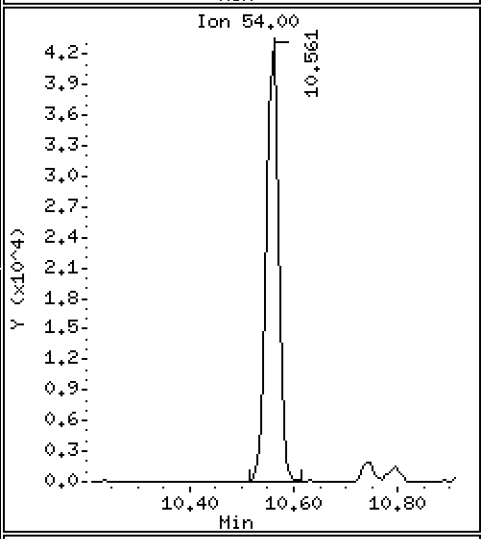
20 Isophorone

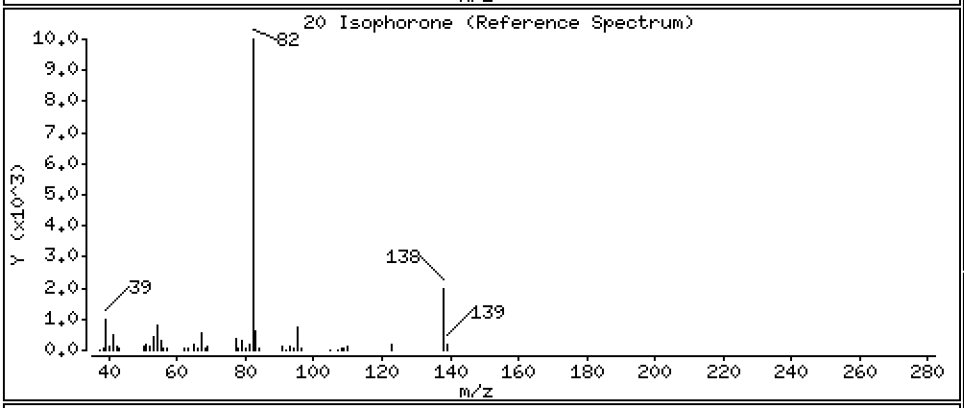
Concentration: 6.593 ug/mL

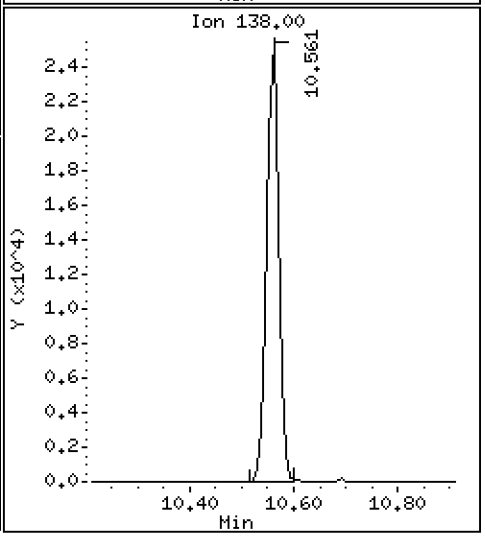


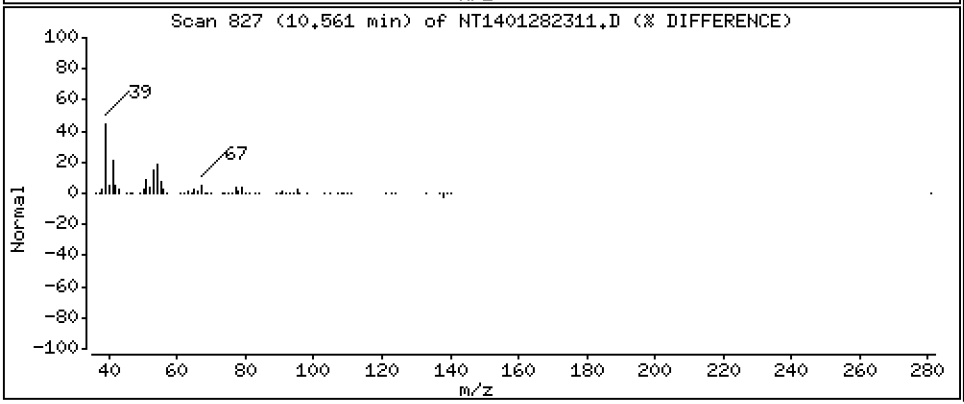












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

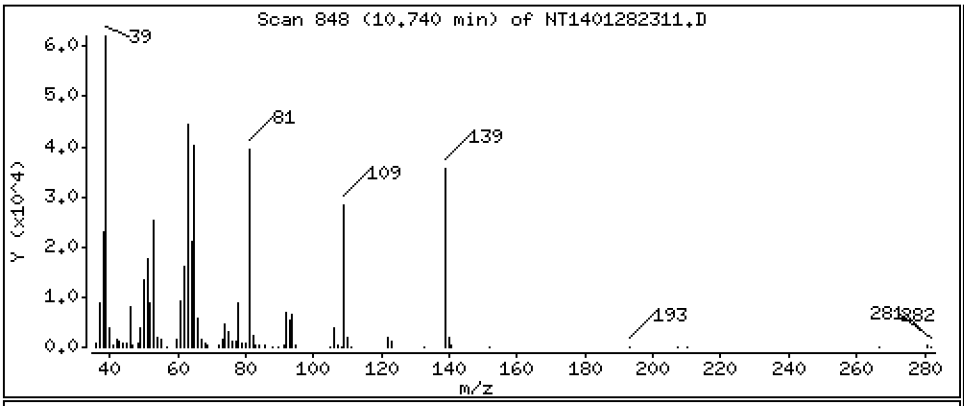
Operator: JGR

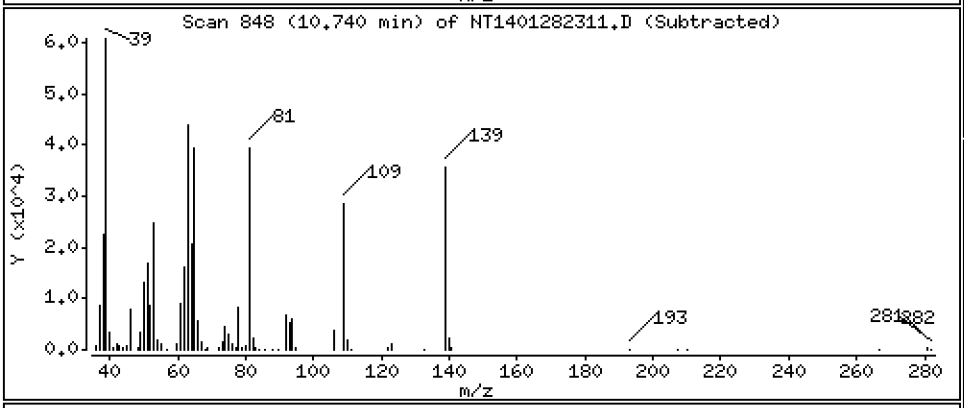
Column phase: ZB-5msi

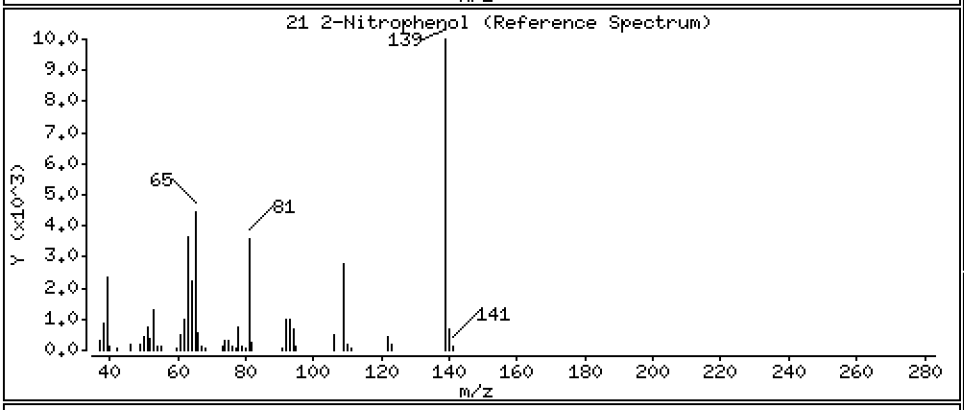
Column diameter: 0.25

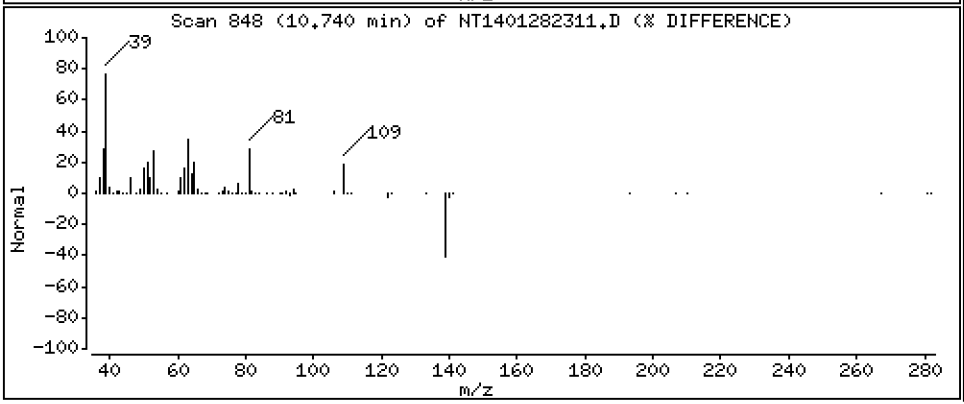
21 2-Nitrophenol

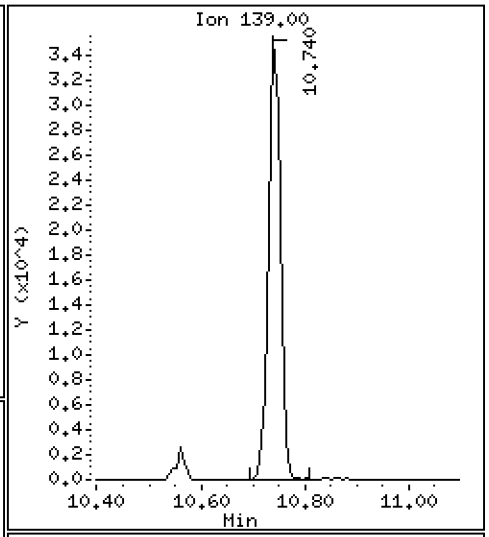
Concentration: 4.134 ug/mL

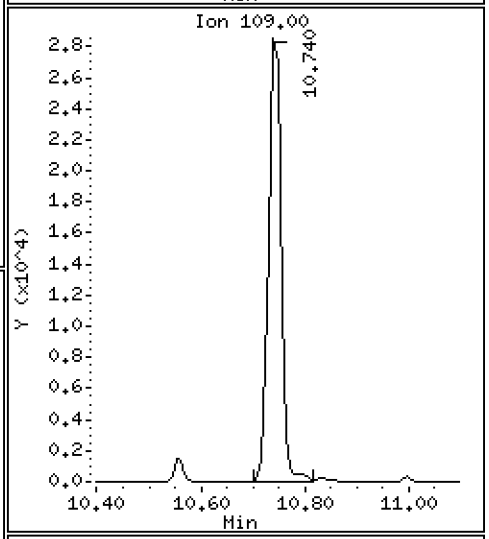


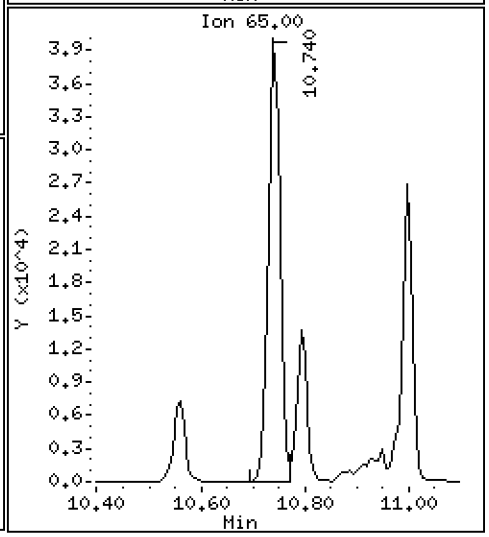












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

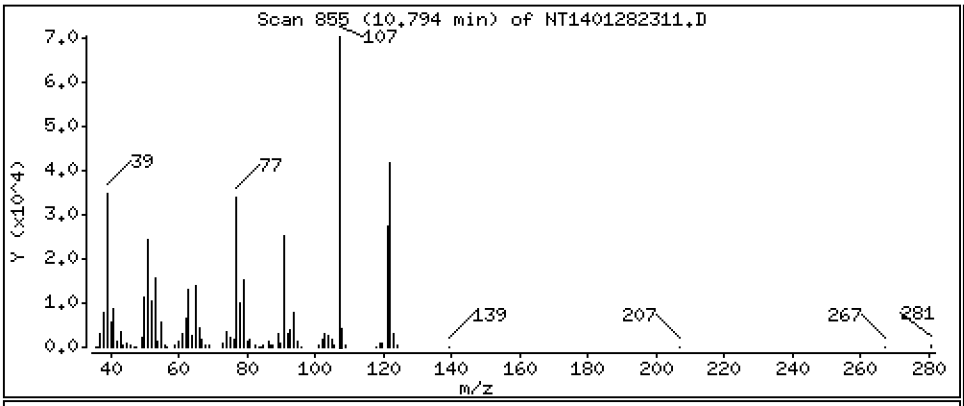
Operator: JGR

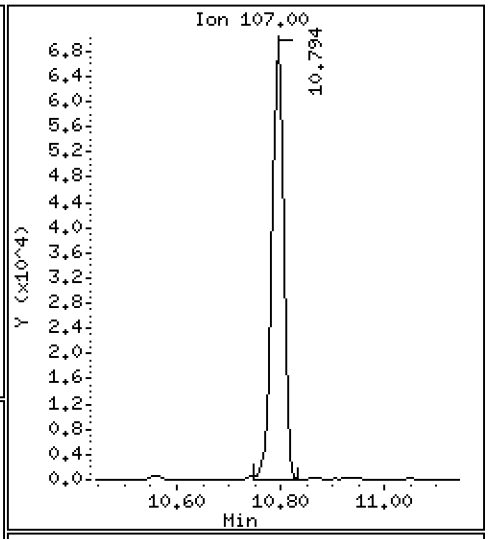
Column phase: ZB-5msi

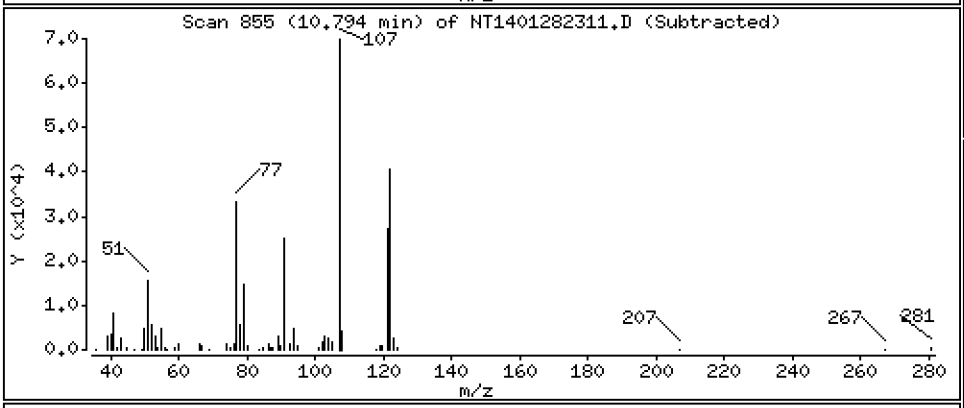
Column diameter: 0.25

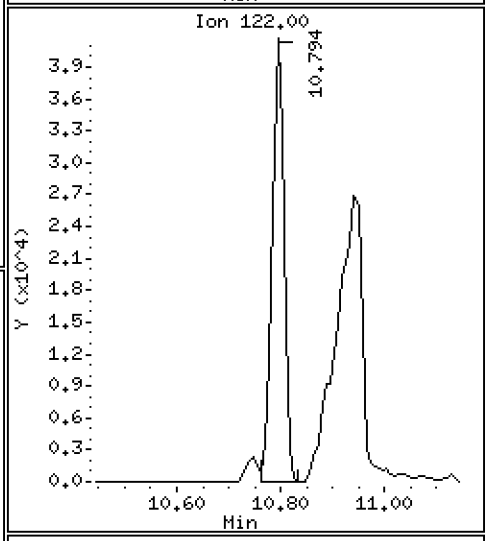
22 2,4-Dimethylphenol

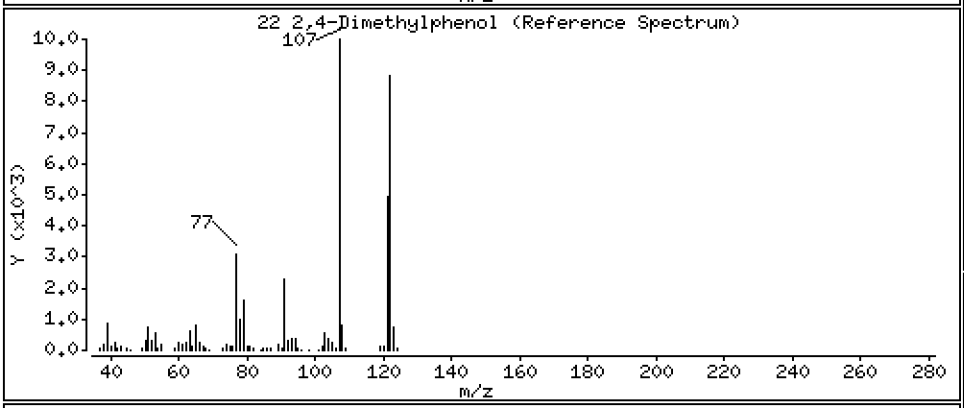
Concentration: 3.034 ug/mL

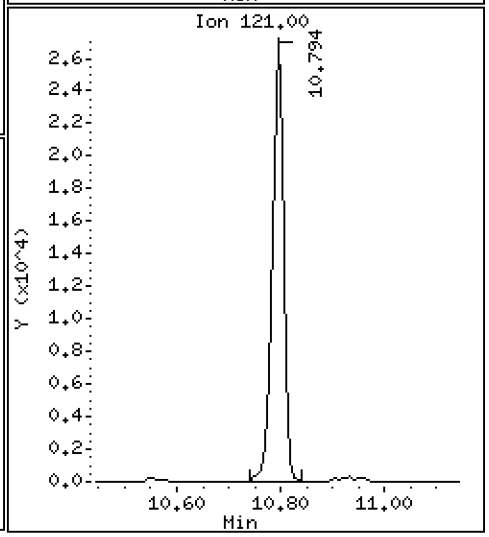


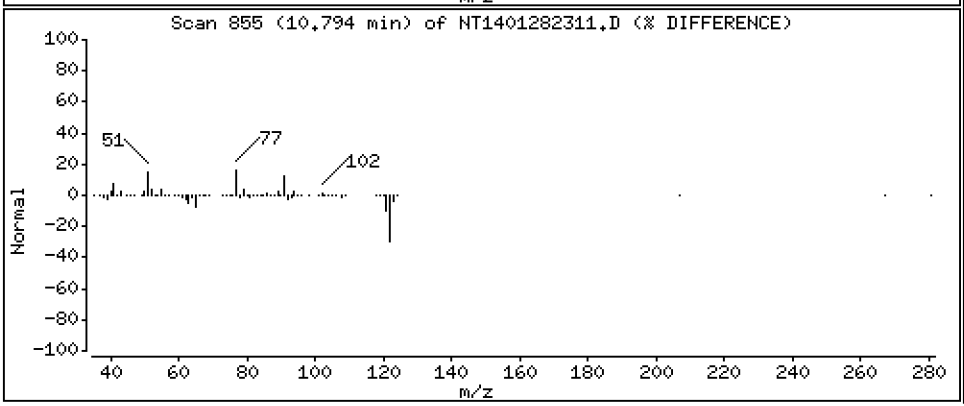












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

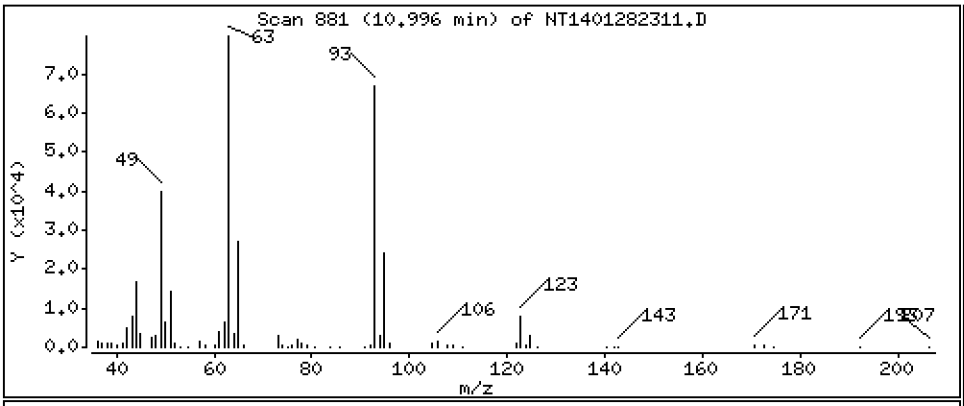
Operator: JGR

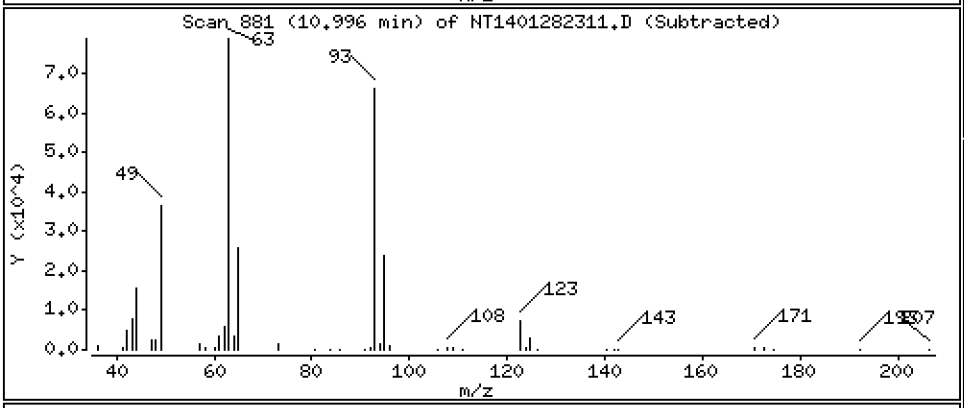
Column phase: ZB-5msi

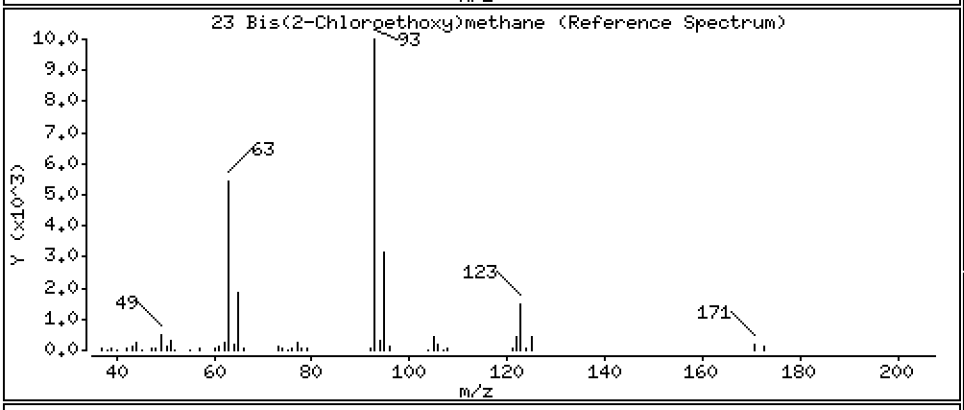
Column diameter: 0.25

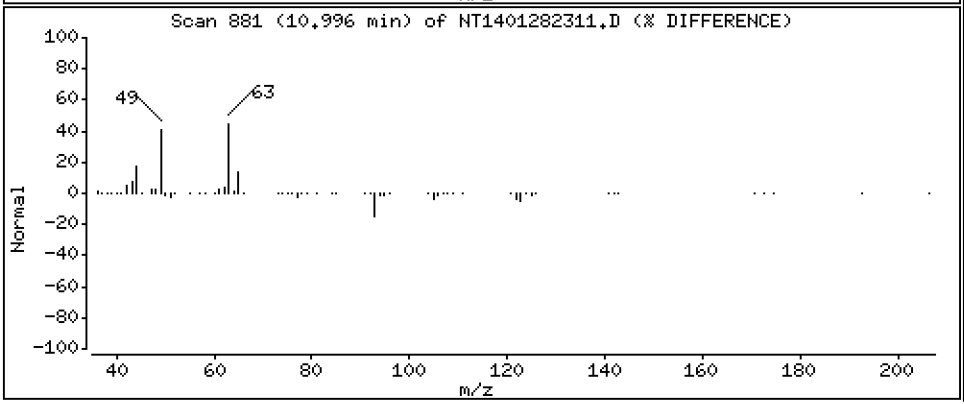
23 Bis(2-Chloroethoxy)methane

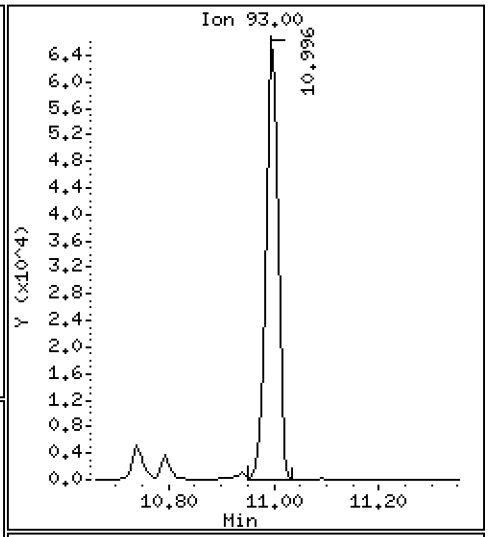
Concentration: 5.454 ug/mL

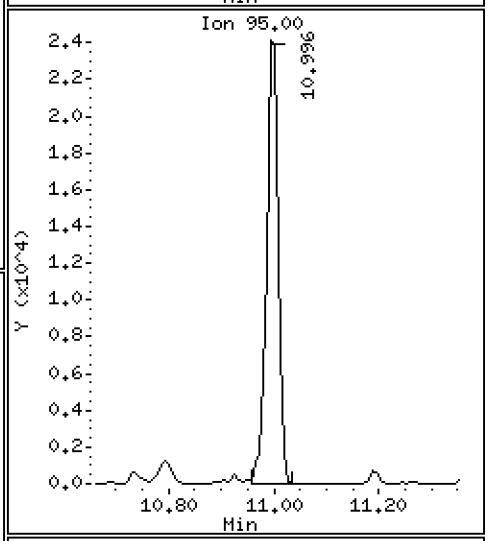


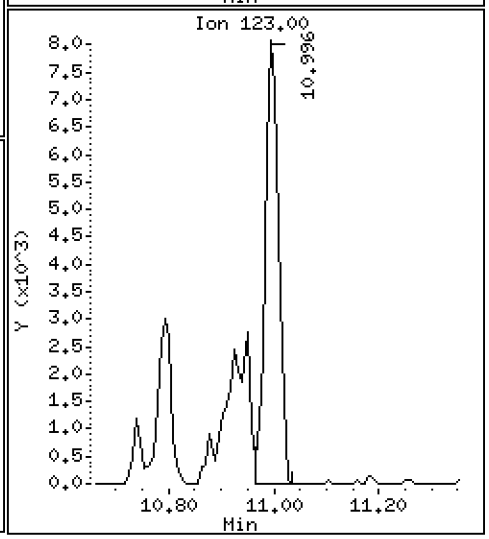












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

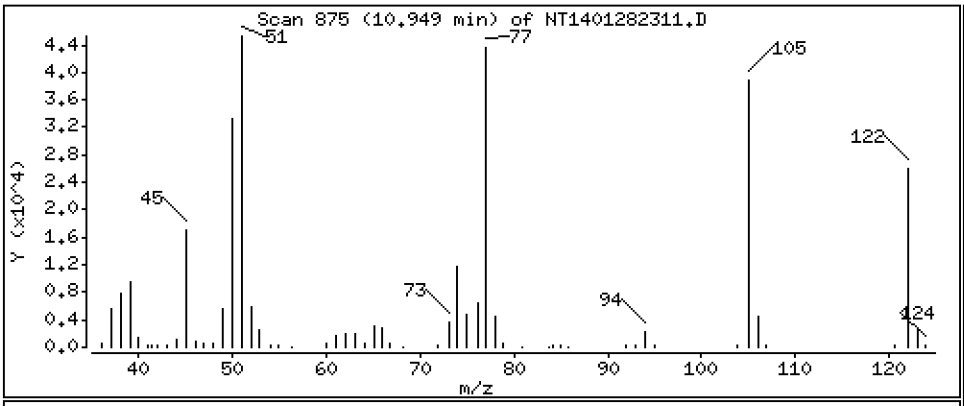
Operator: JGR

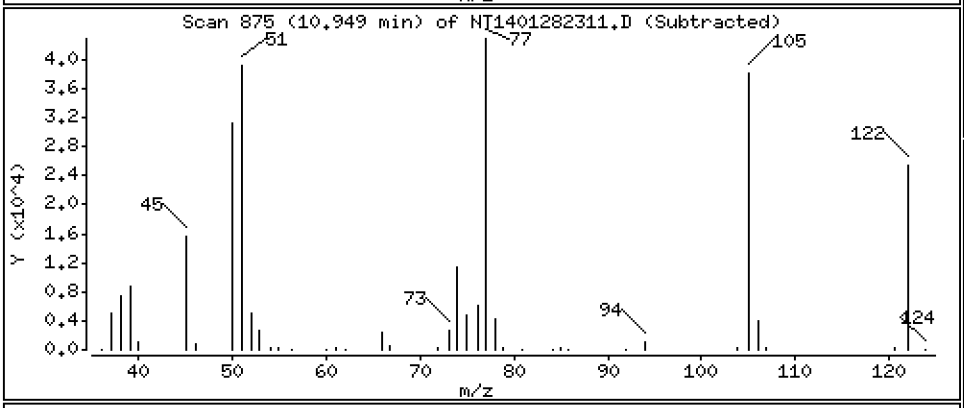
Column phase: ZB-5msi

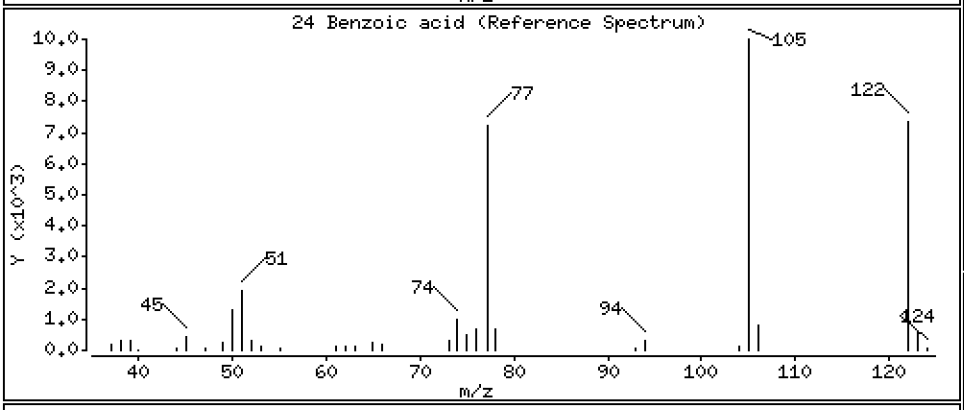
Column diameter: 0.25

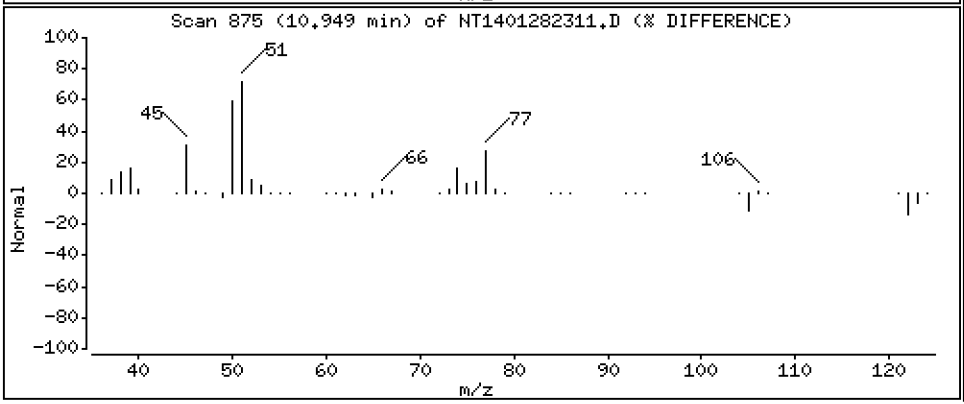
24 Benzoic acid

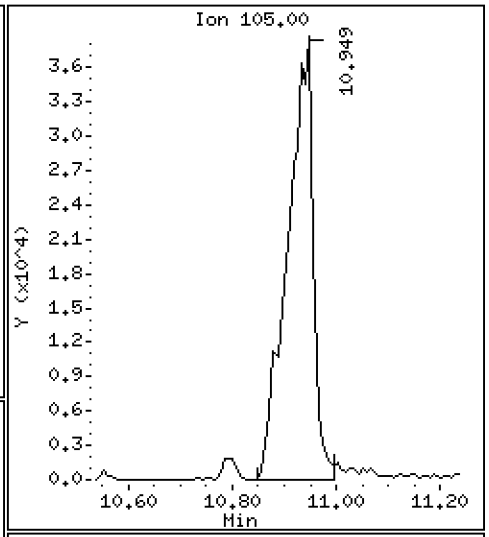
Concentration: 6.669 ug/mL

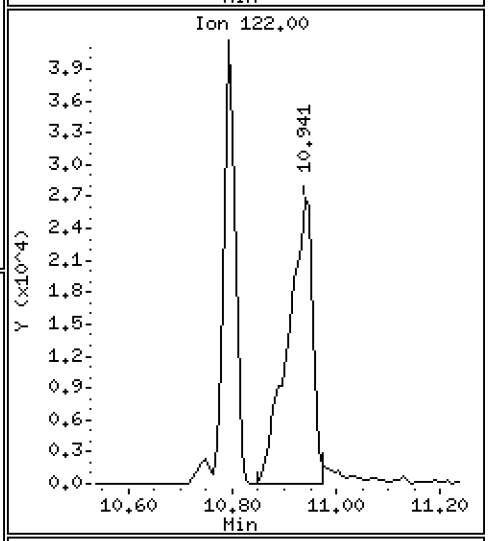


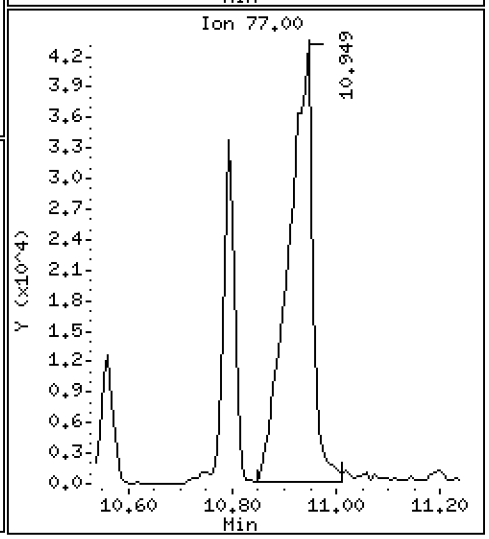












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

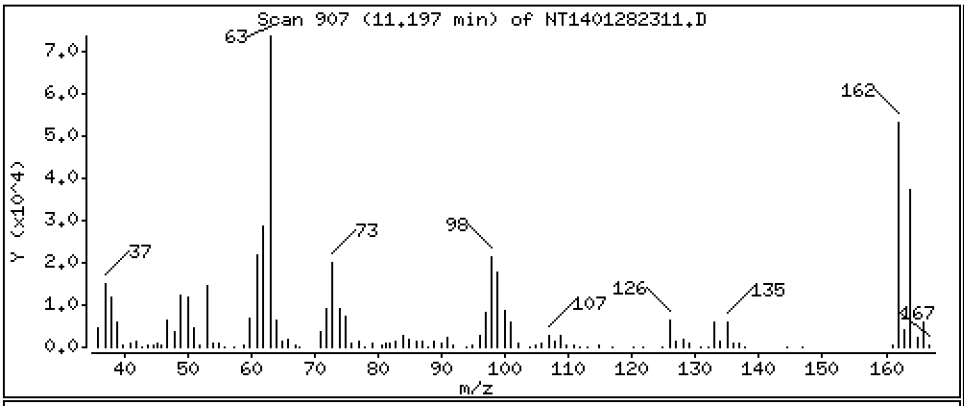
Operator: JGR

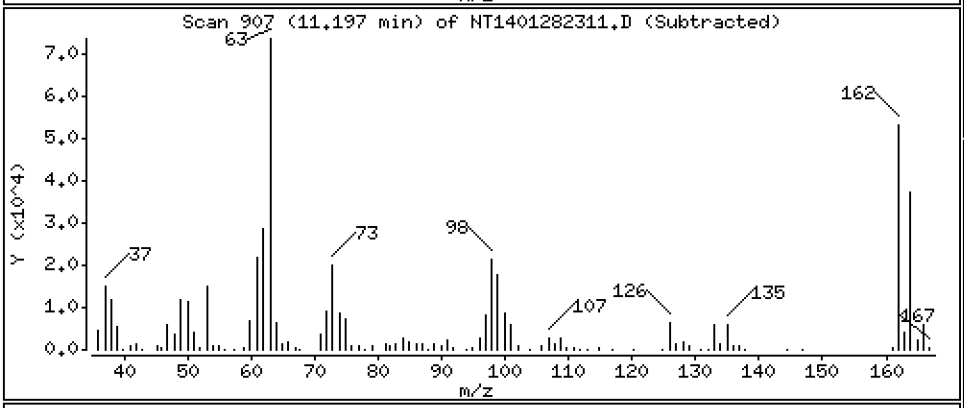
Column phase: ZB-5msi

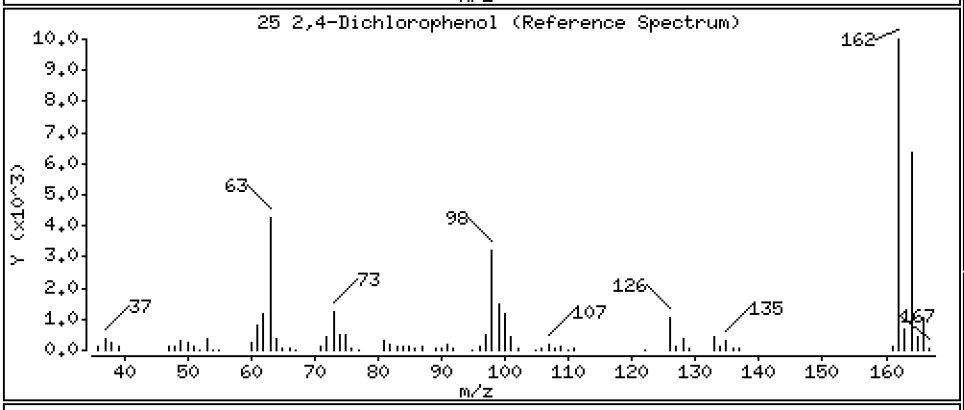
Column diameter: 0.25

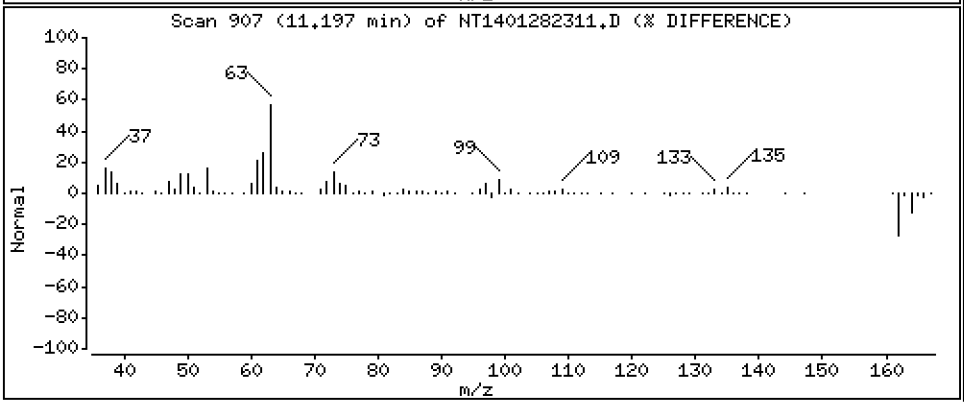
25 2,4-Dichlorophenol

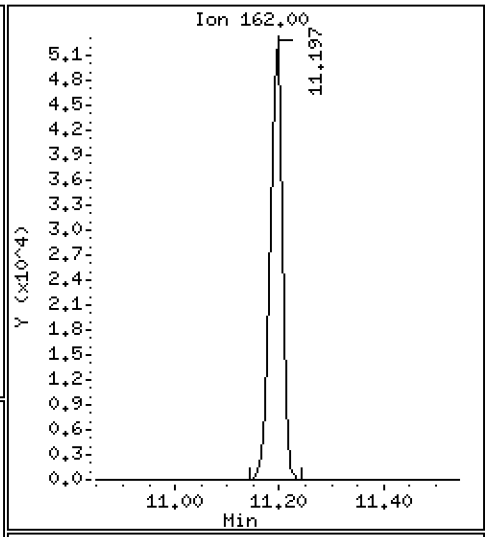
Concentration: 3.997 ug/mL

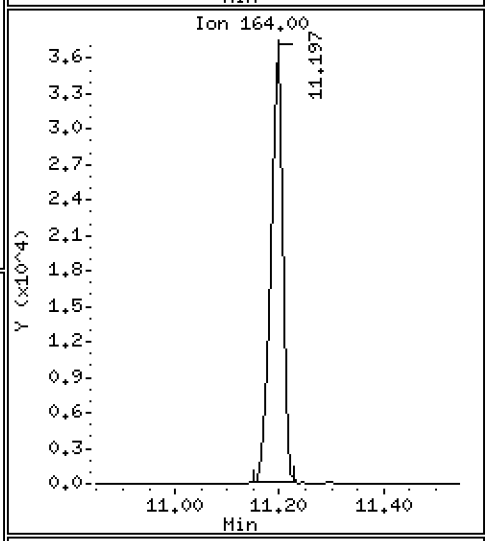


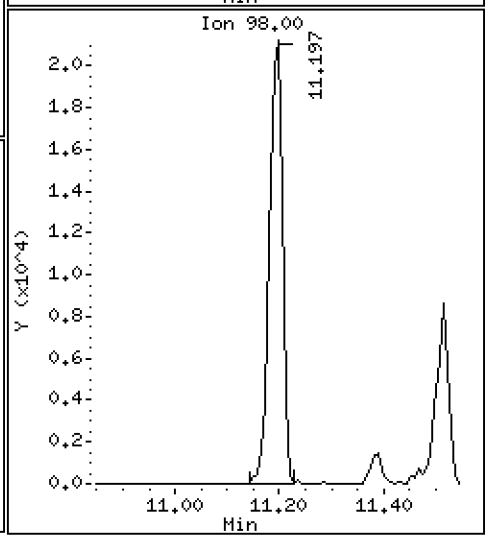












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

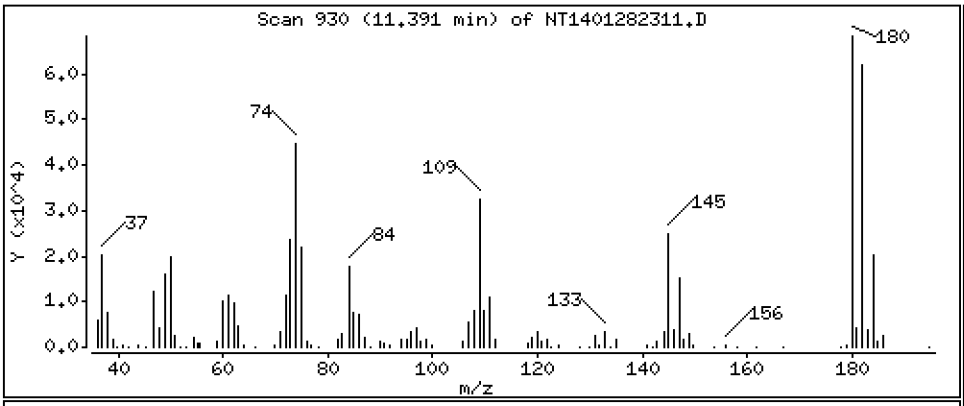
Operator: JGR

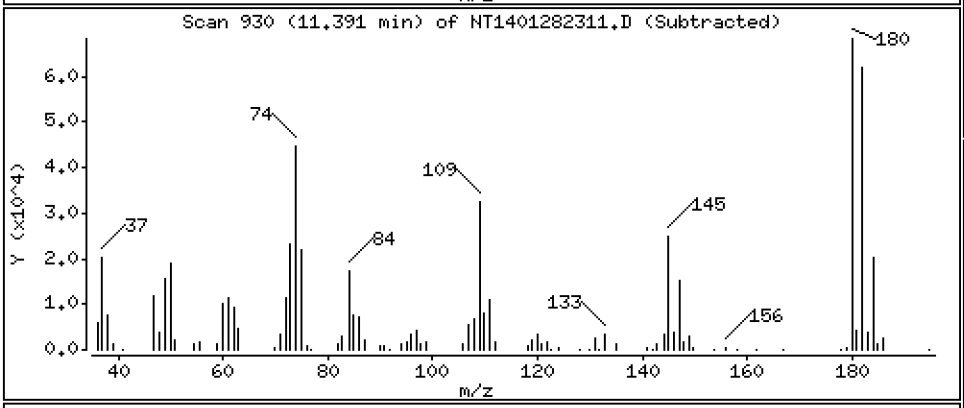
Column phase: ZB-5msi

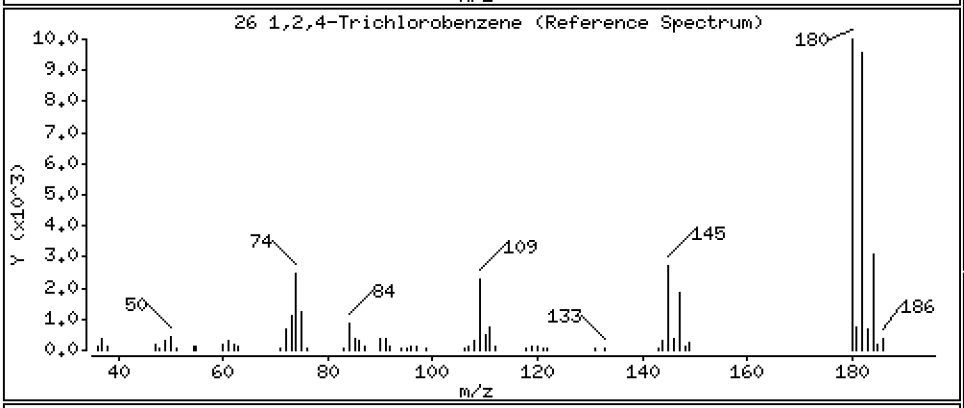
Column diameter: 0.25

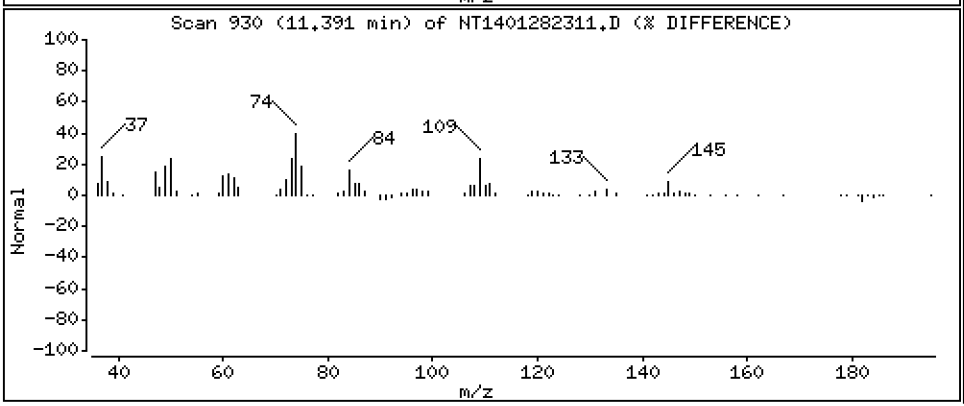
26 1,2,4-Trichlorobenzene

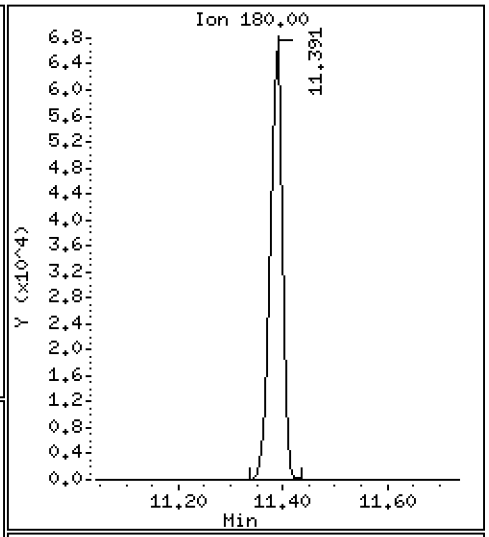
Concentration: 4.476 ug/mL

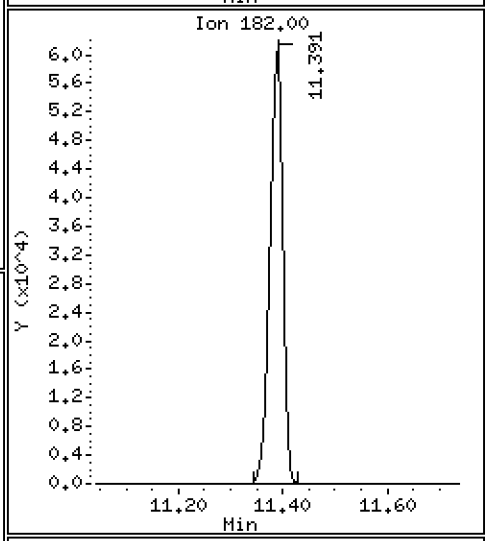


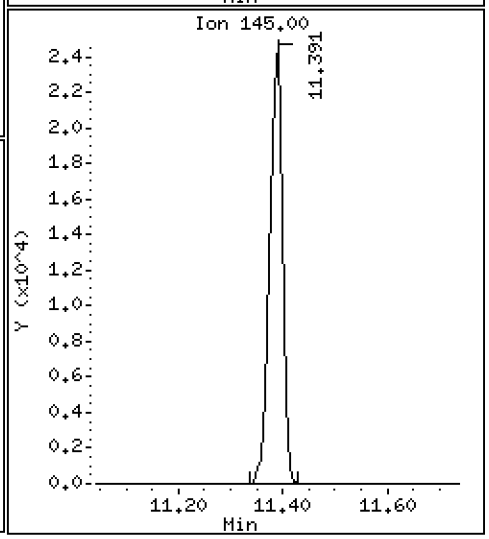












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

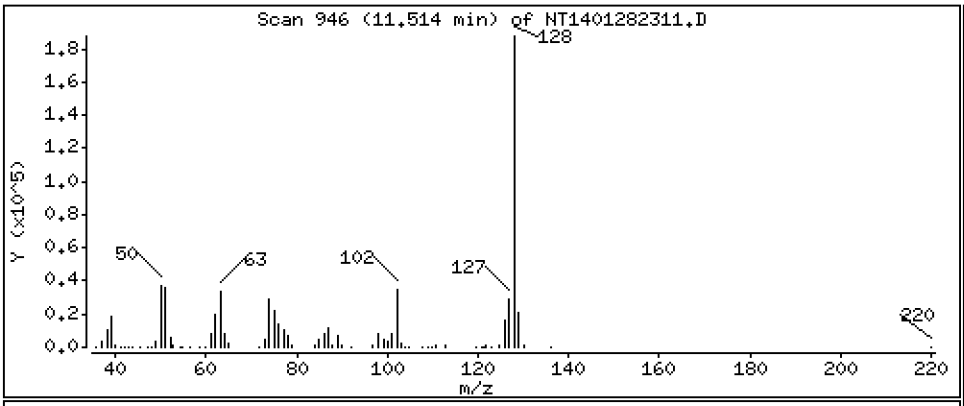
Operator: JGR

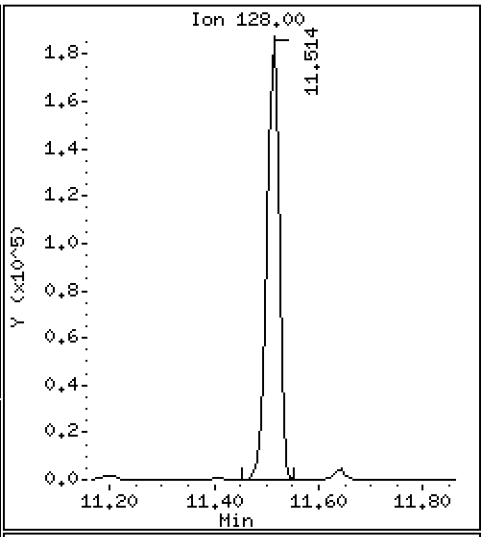
Column phase: ZB-5msi

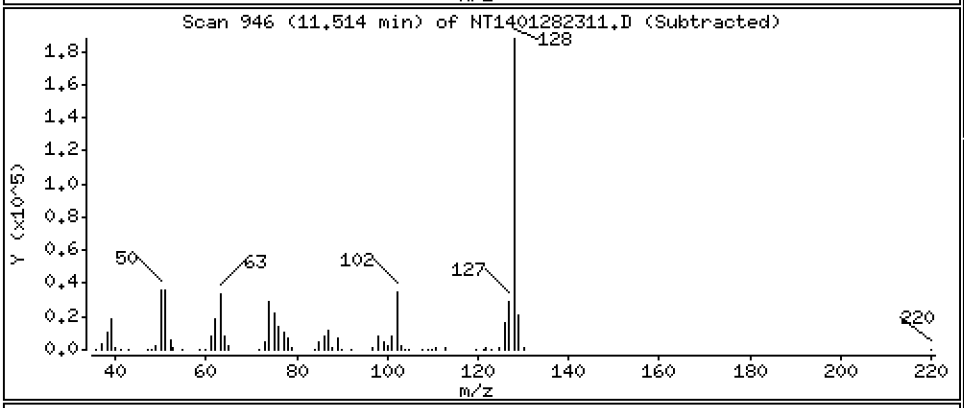
Column diameter: 0.25

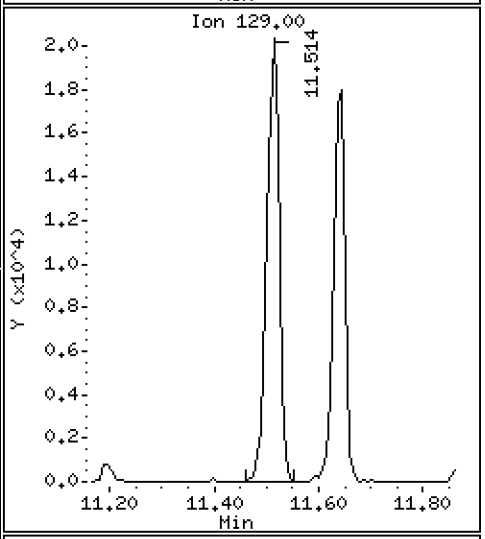
28 Naphthalene

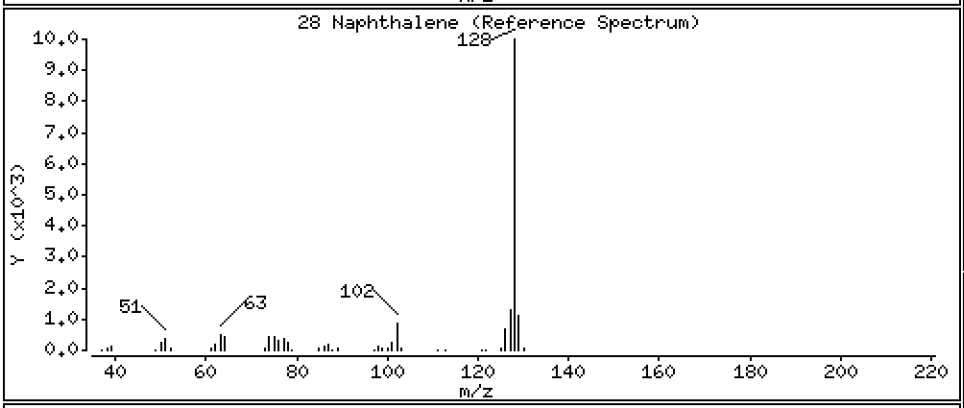
Concentration: 4.807 ug/mL

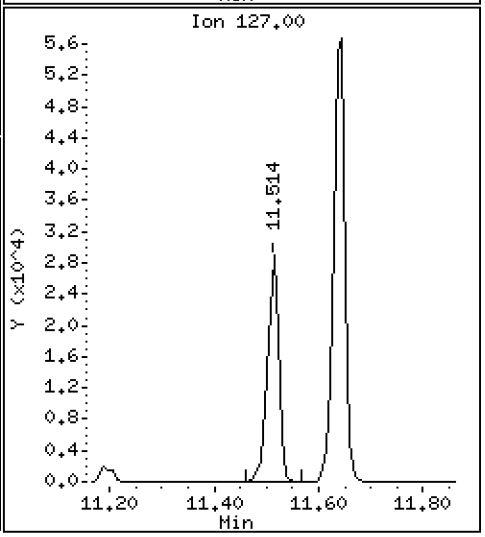


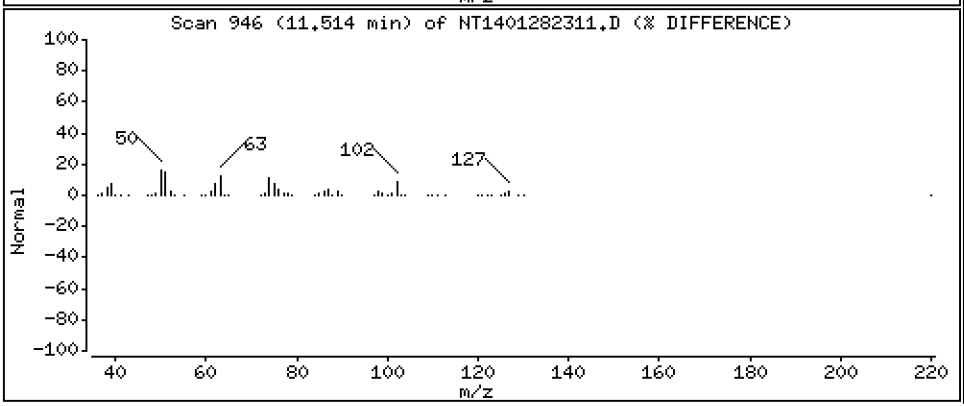












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

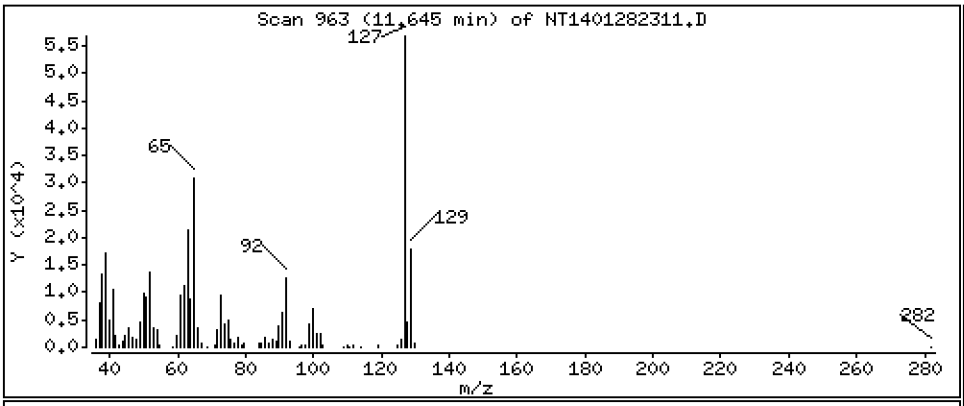
Operator: JGR

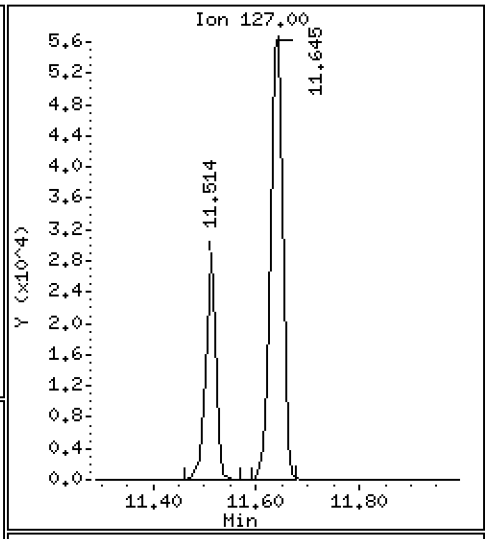
Column phase: ZB-5msi

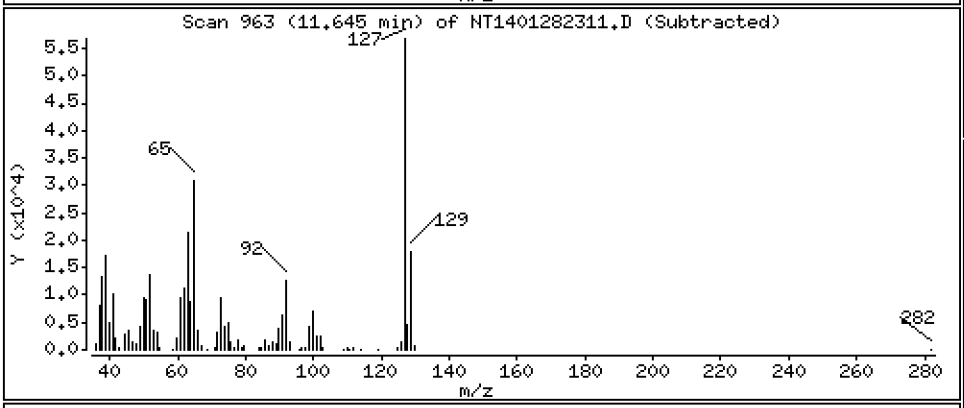
Column diameter: 0.25

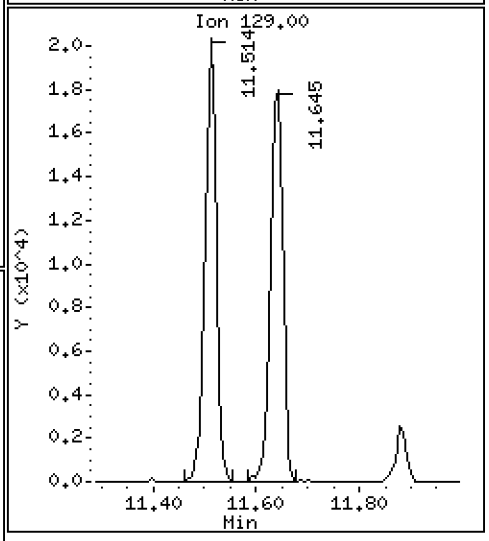
29 4-Chloroaniline

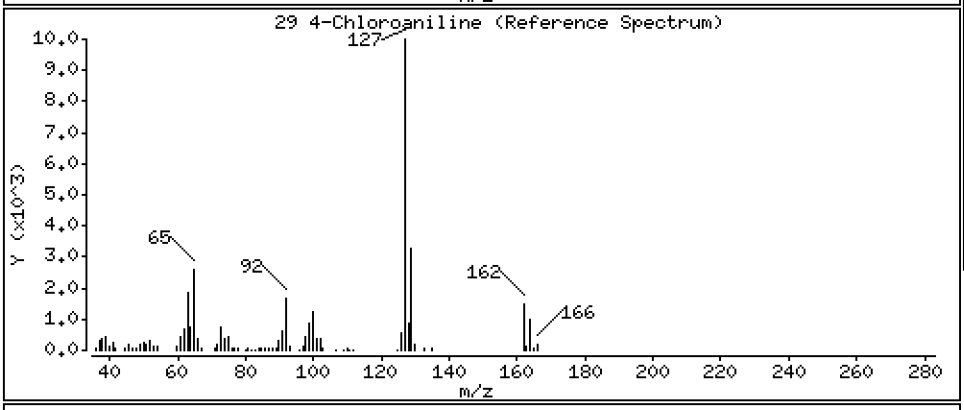
Concentration: 3.544 ug/mL

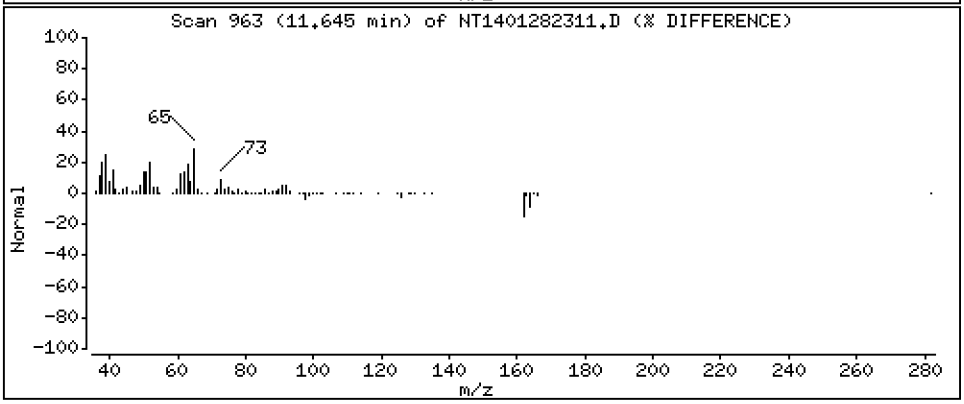












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

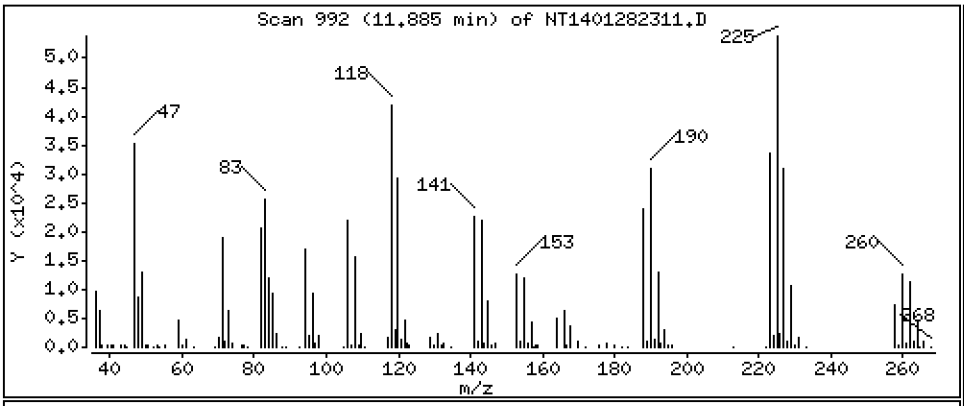
Operator: JGR

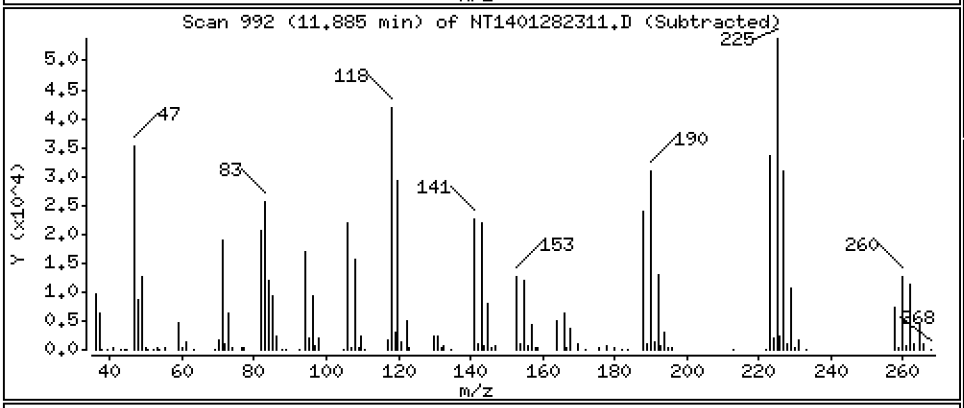
Column phase: ZB-5msi

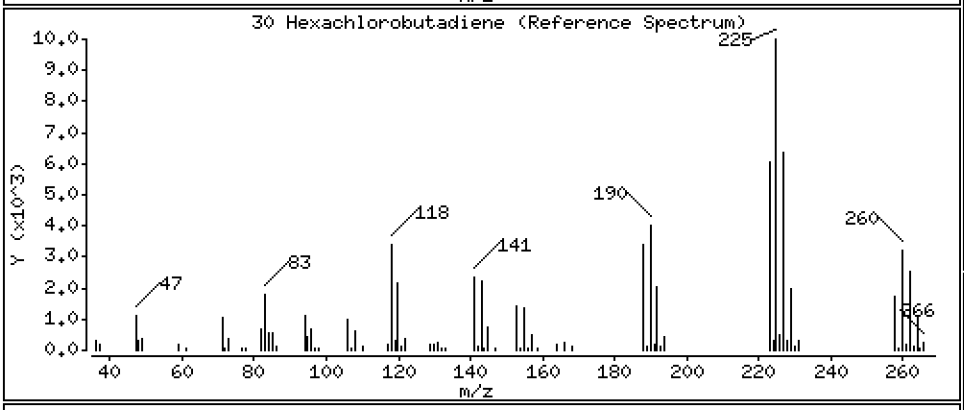
Column diameter: 0.25

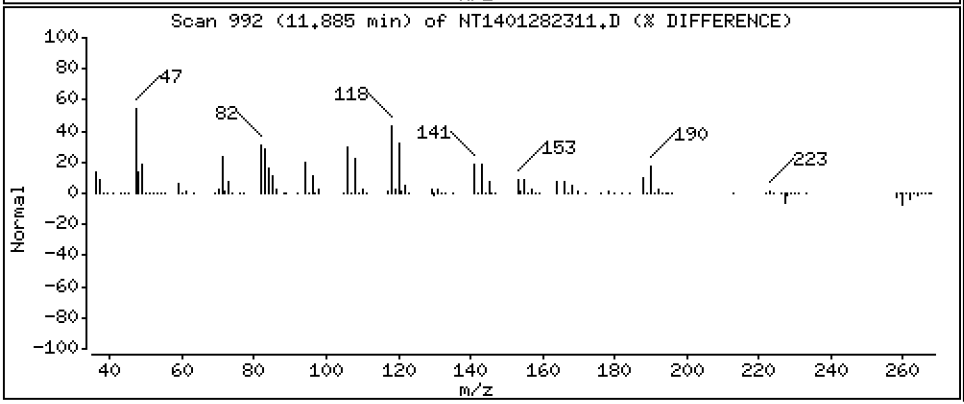
30 Hexachlorobutadiene

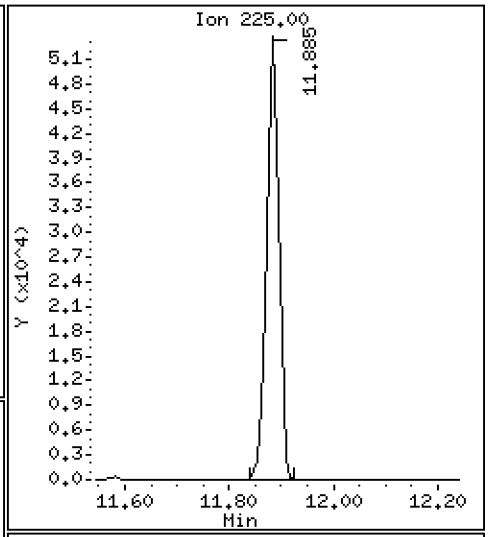
Concentration: 4.675 ug/mL

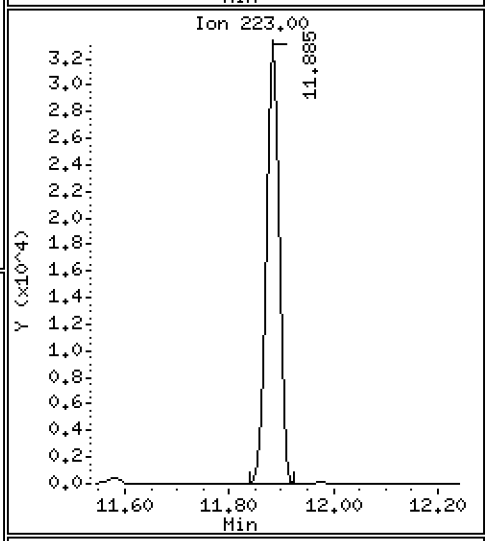


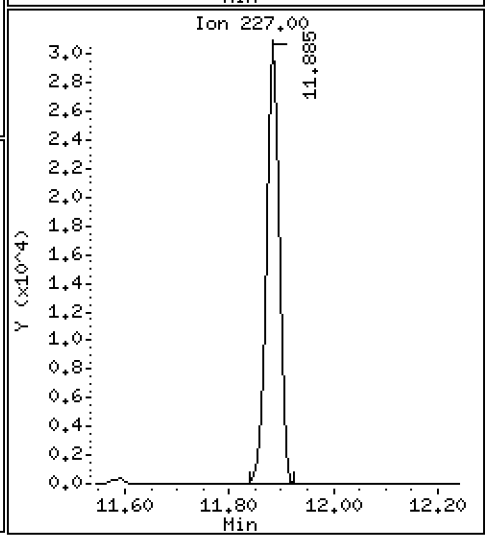












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

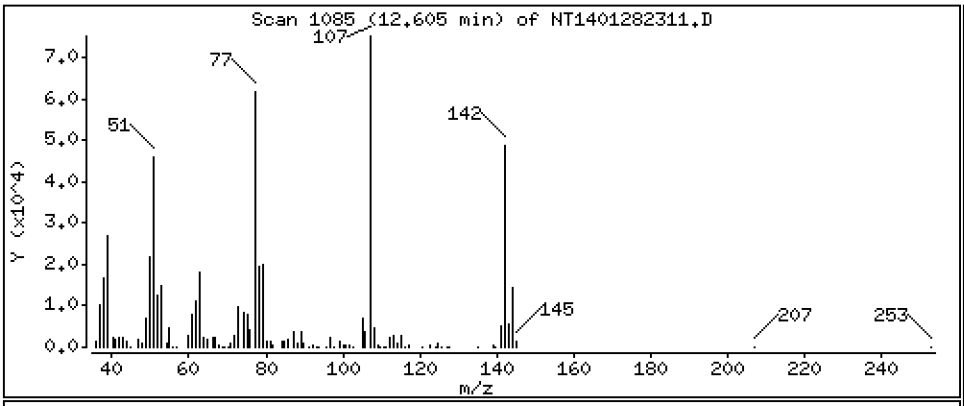
Operator: JGR

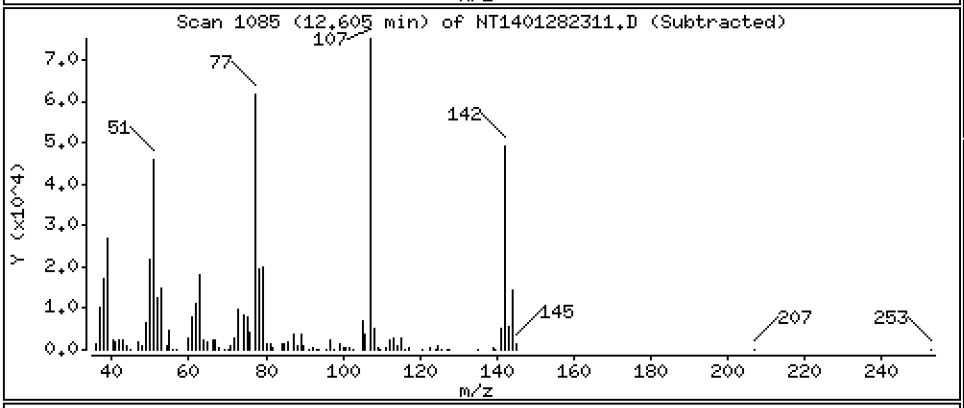
Column phase: ZB-5msi

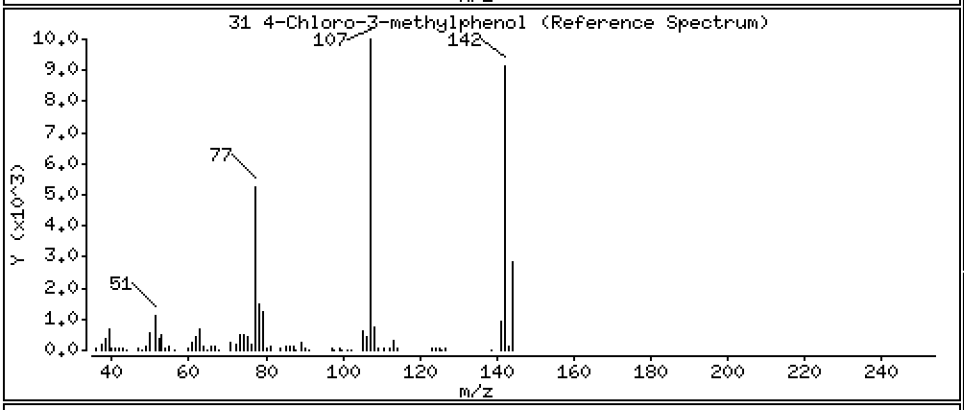
Column diameter: 0.25

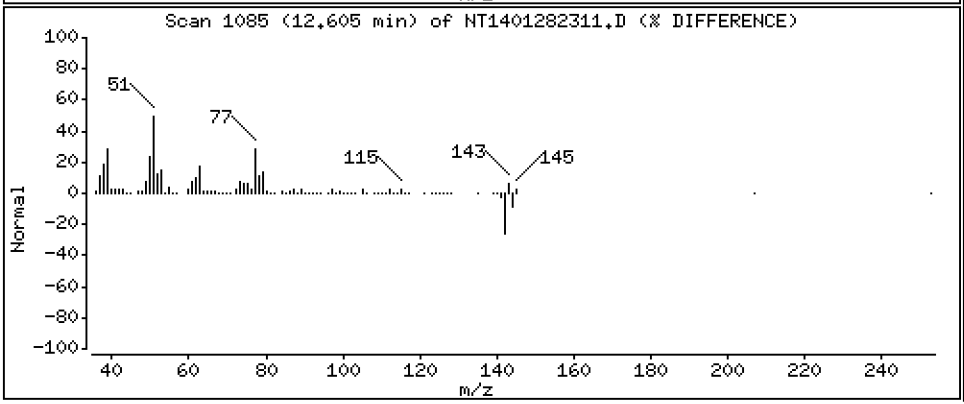
31 4-Chloro-3-methylphenol

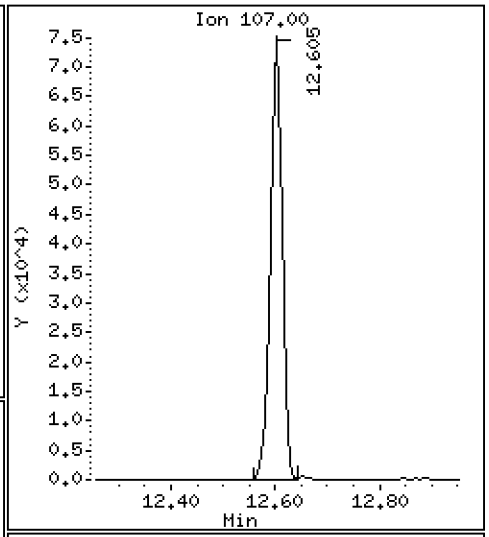
Concentration: 3.943 ug/mL

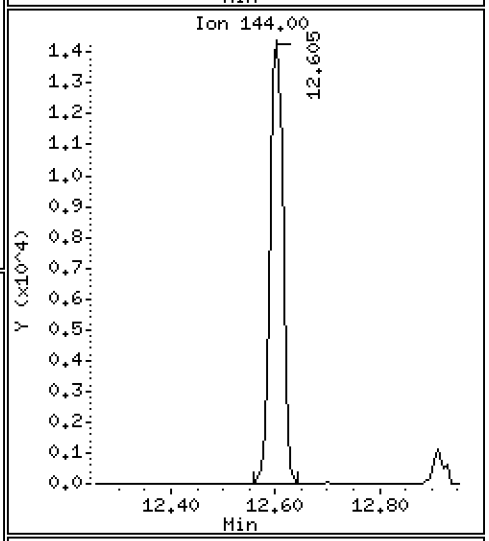


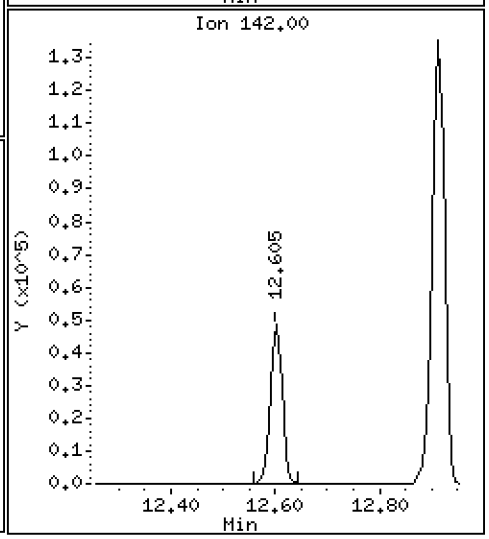












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

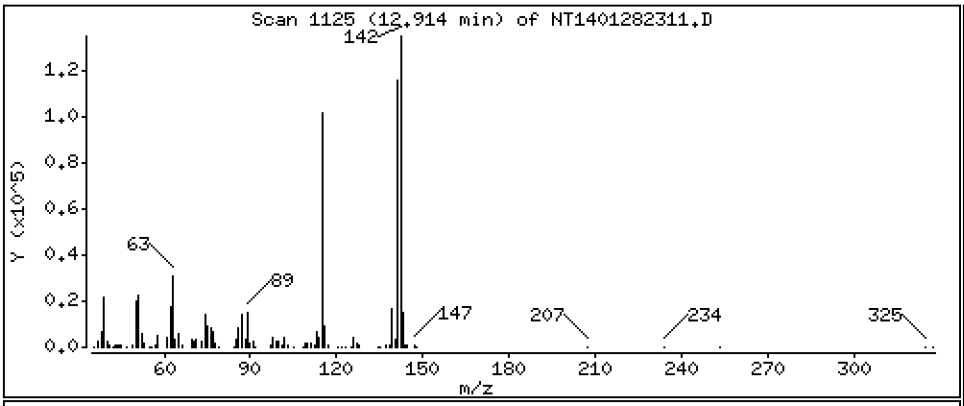
Operator: JGR

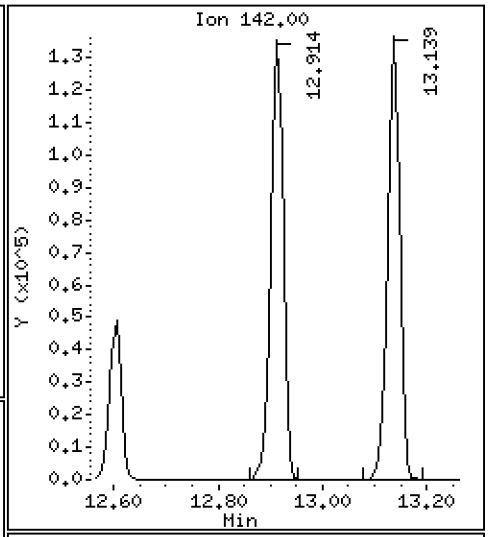
Column phase: ZB-5msi

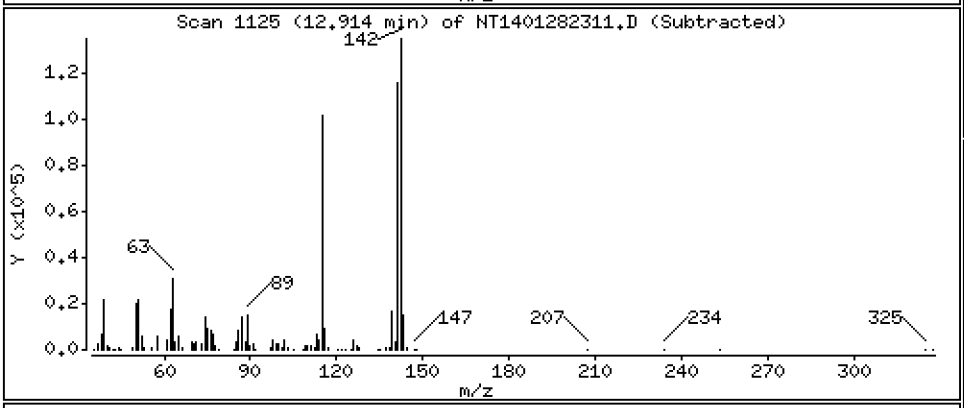
Column diameter: 0.25

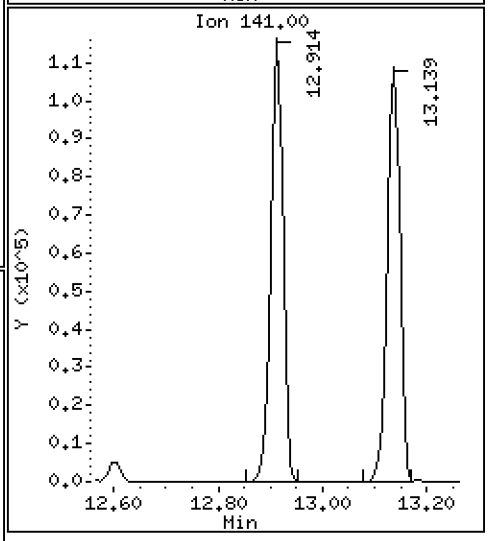
32 2-Methylnaphthalene

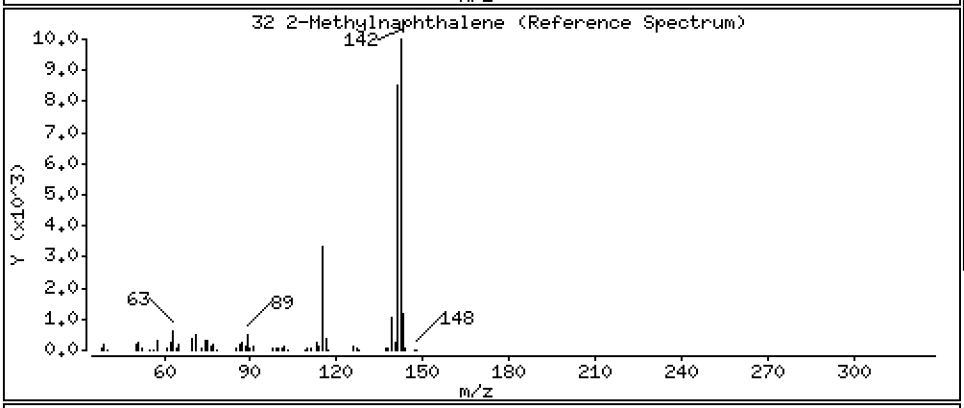
Concentration: 4.357 ug/mL

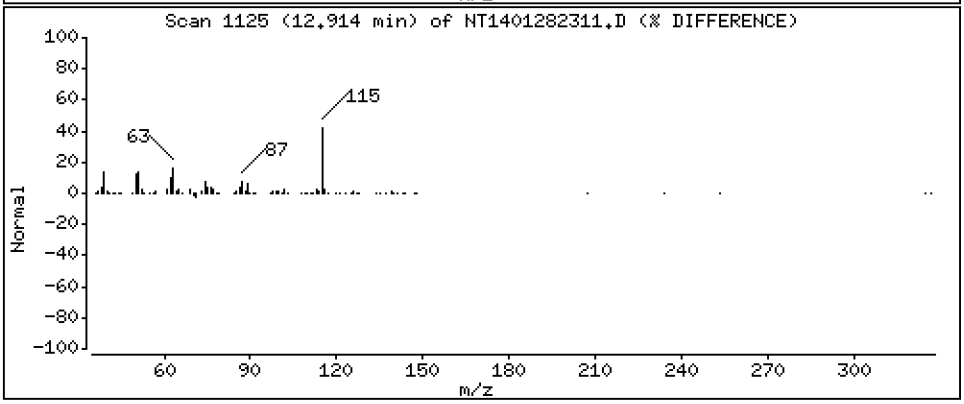












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

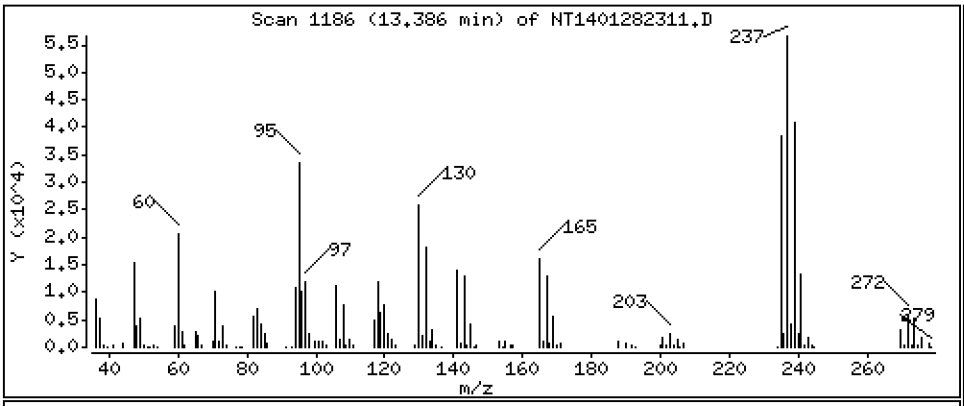
Operator: JGR

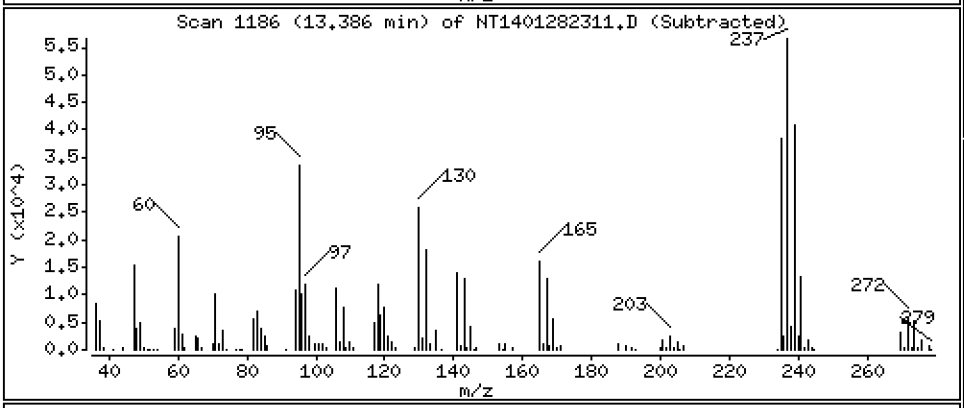
Column phase: ZB-5msi

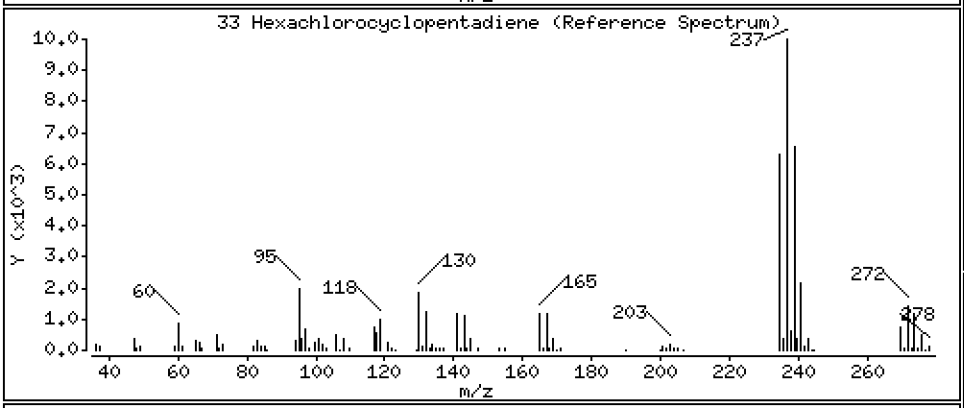
Column diameter: 0.25

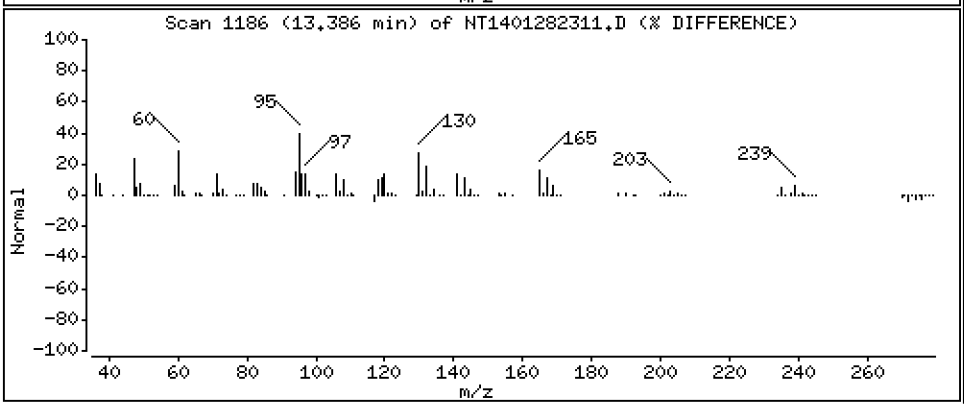
33 Hexachlorocyclopentadiene

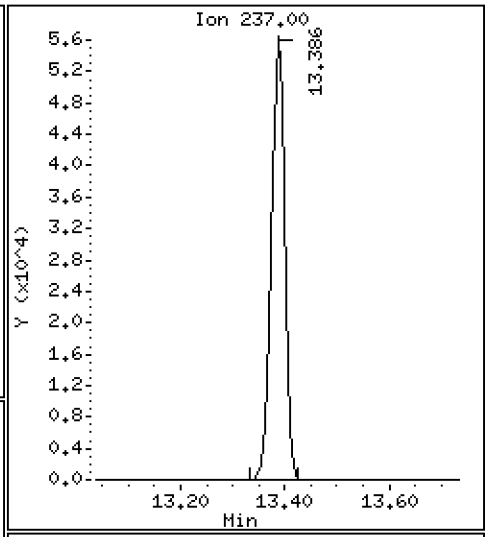
Concentration: 4.637 ug/mL

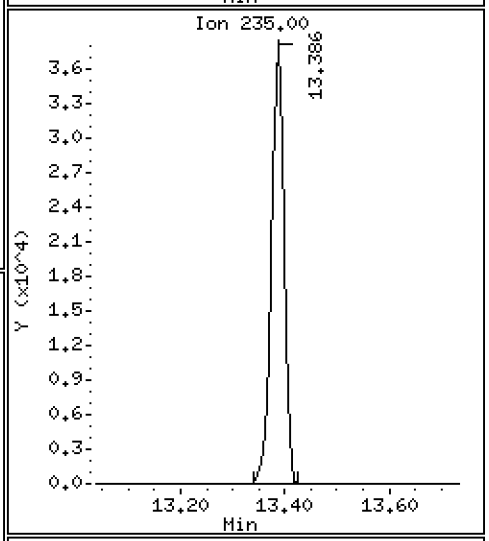


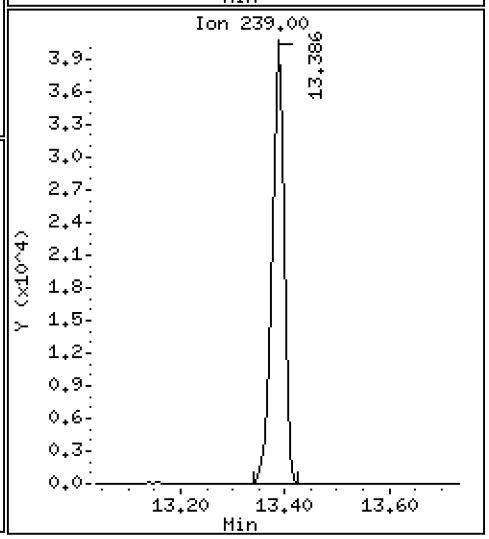












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

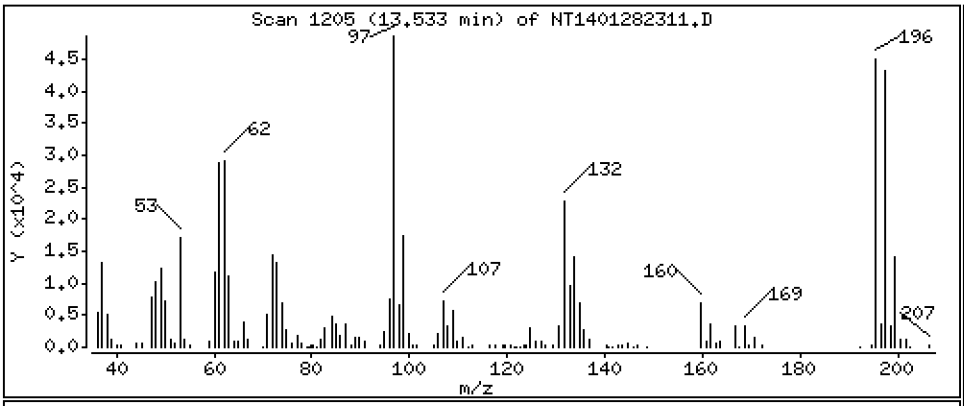
Operator: JGR

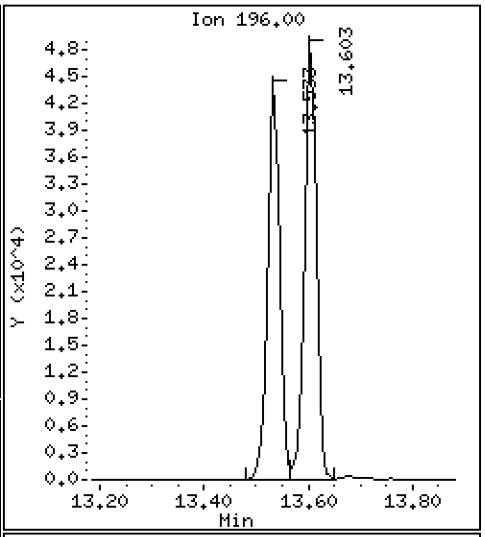
Column phase: ZB-5msi

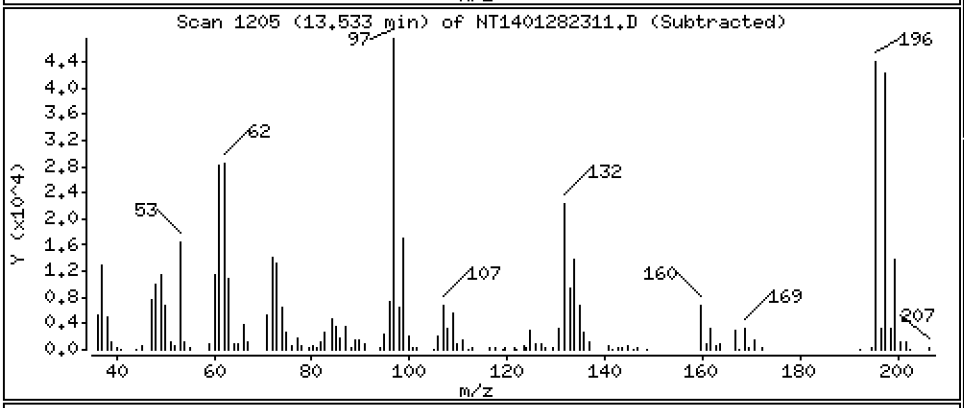
Column diameter: 0.25

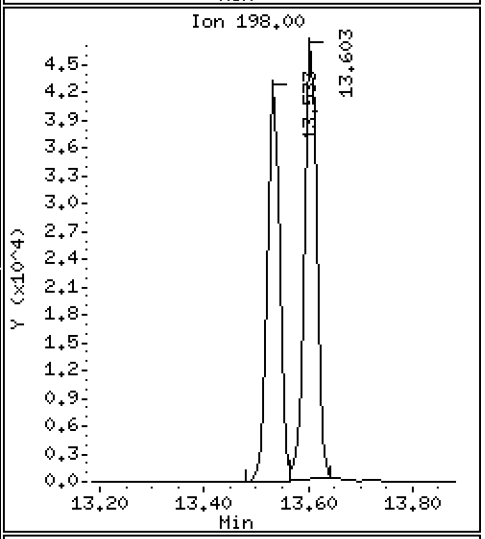
34 2,4,6-Trichlorophenol

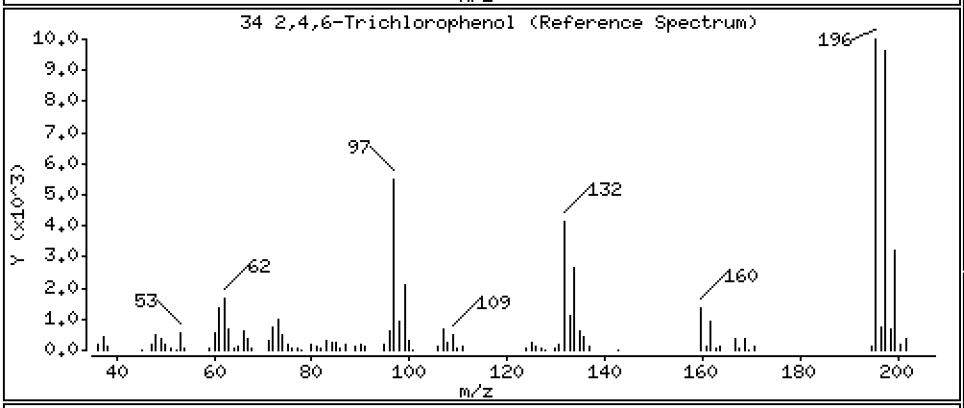
Concentration: 3.710 ug/mL

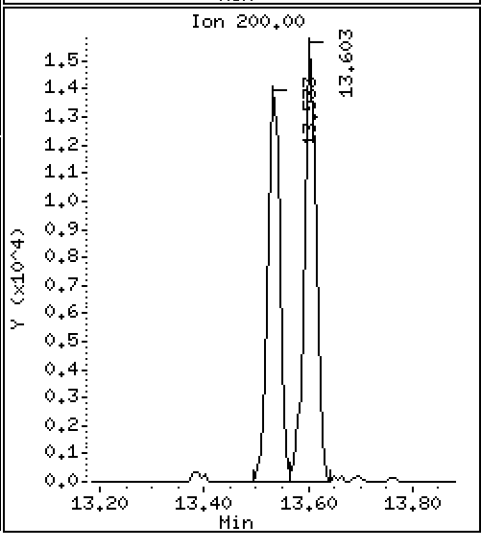


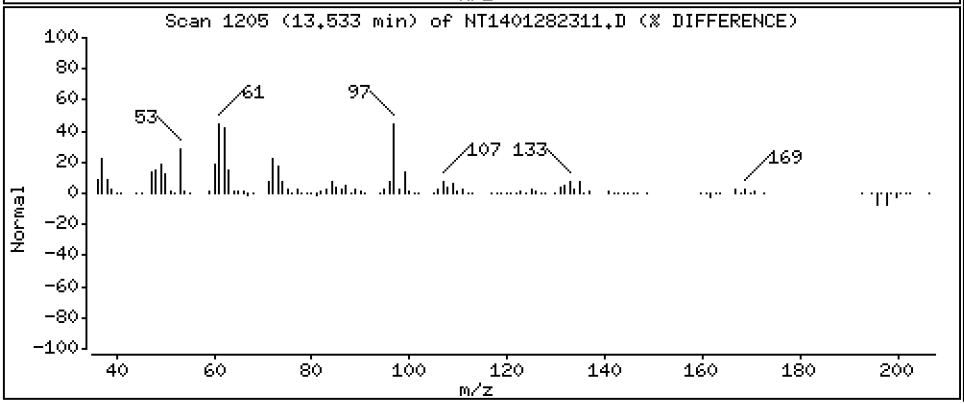












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

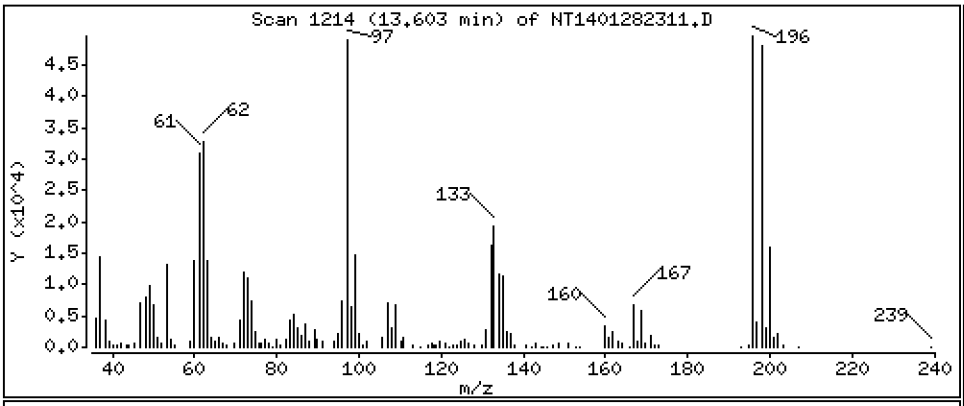
Operator: JGR

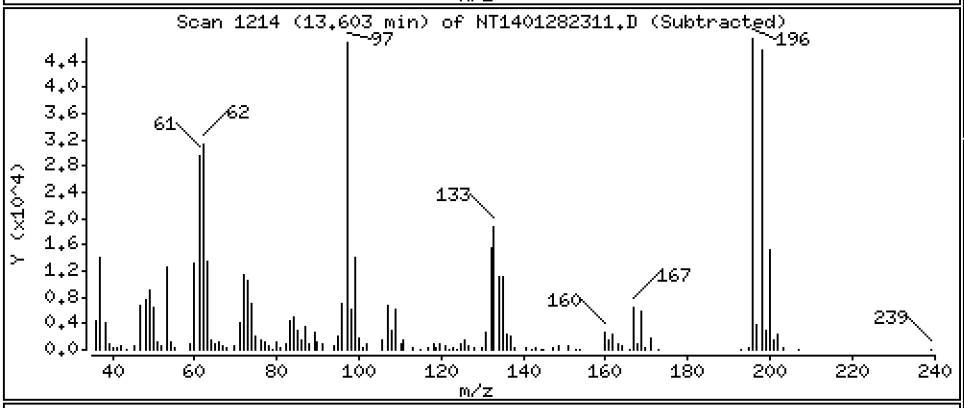
Column phase: ZB-5msi

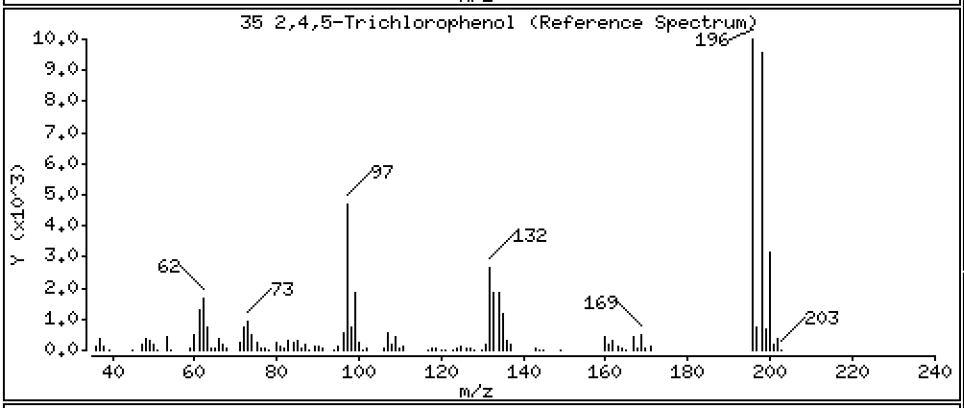
Column diameter: 0.25

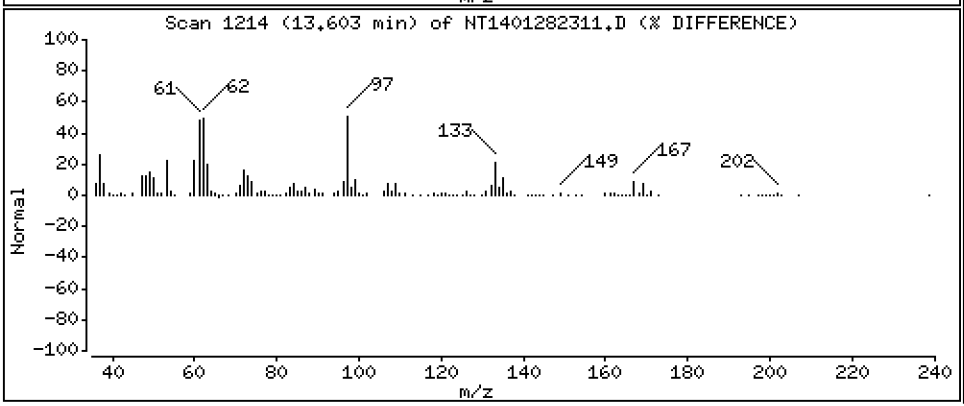
35 2,4,5-Trichlorophenol

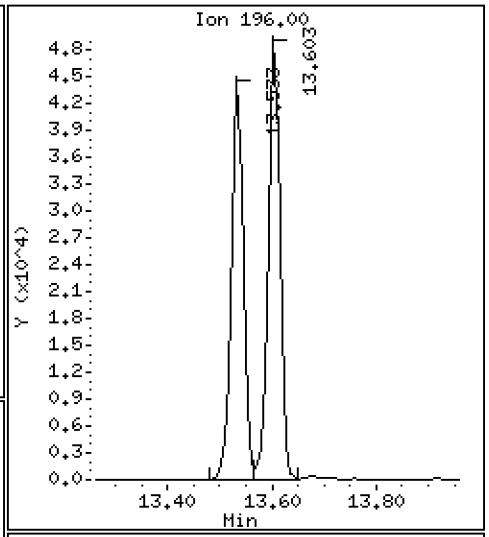
Concentration: 3.616 ug/mL

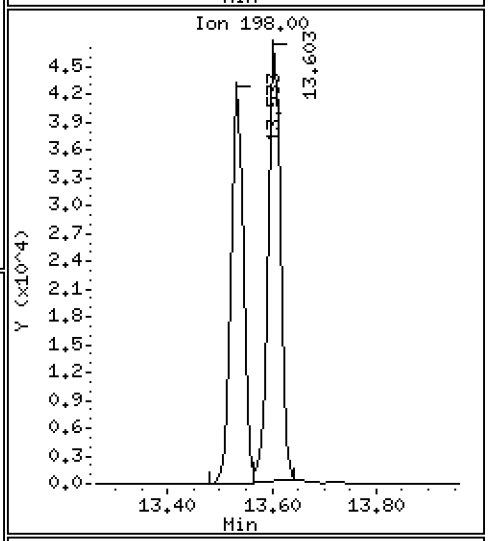


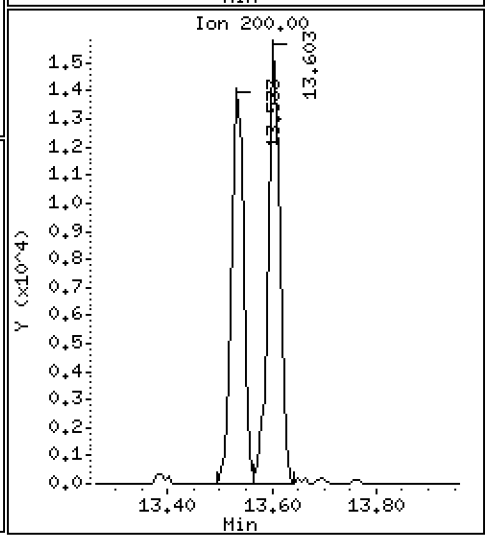












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

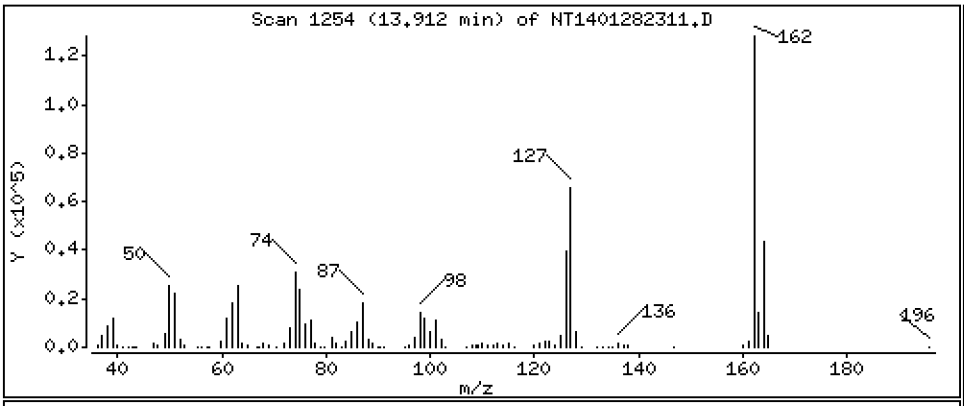
Operator: JGR

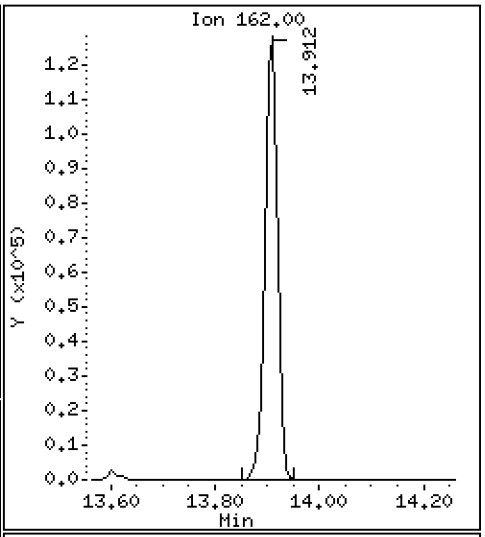
Column phase: ZB-5msi

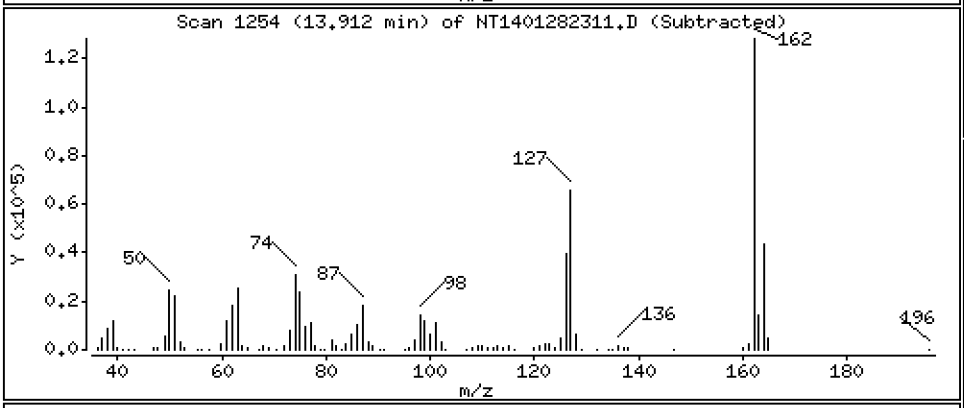
Column diameter: 0.25

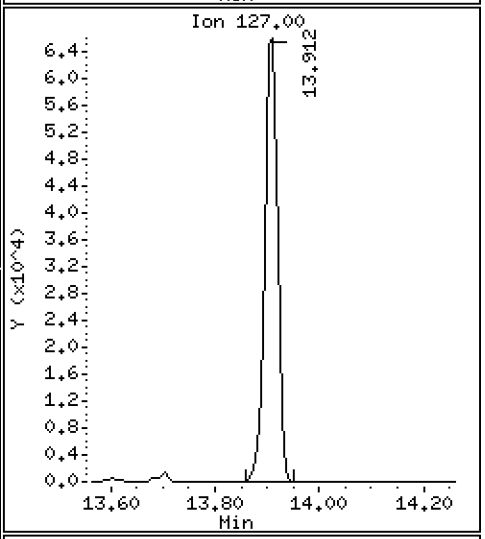
37 2-Chloronaphthalene

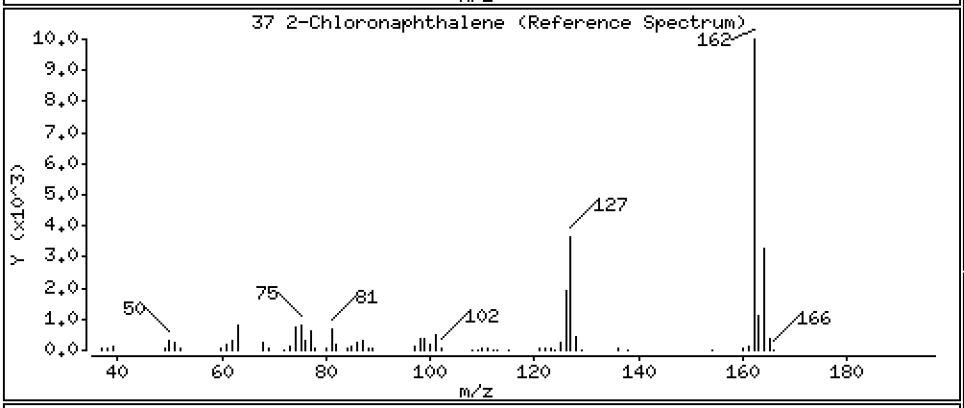
Concentration: 4.704 ug/mL

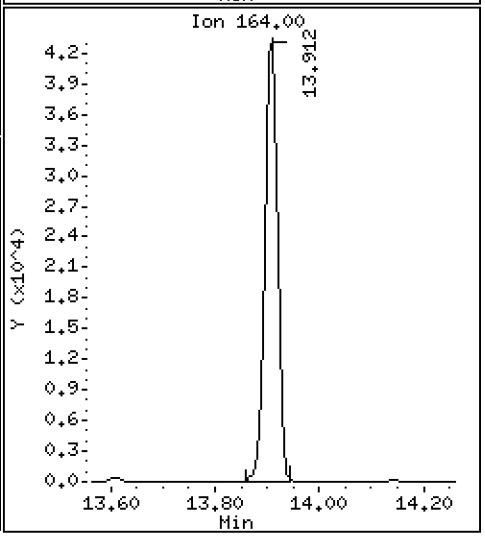


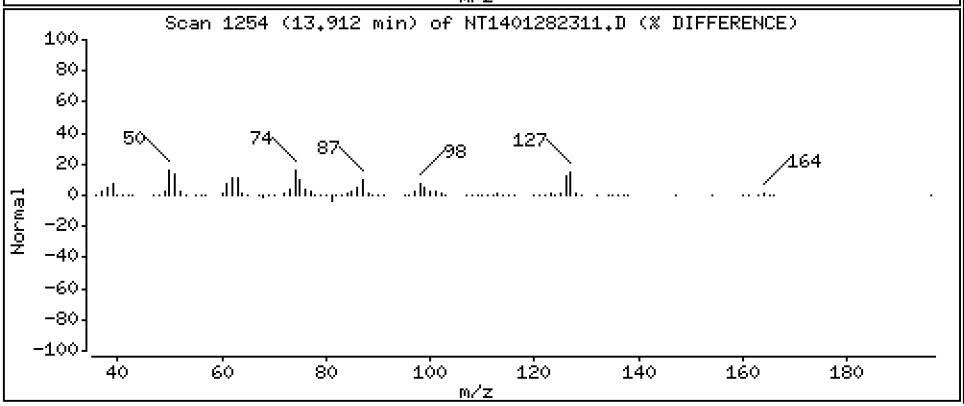












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

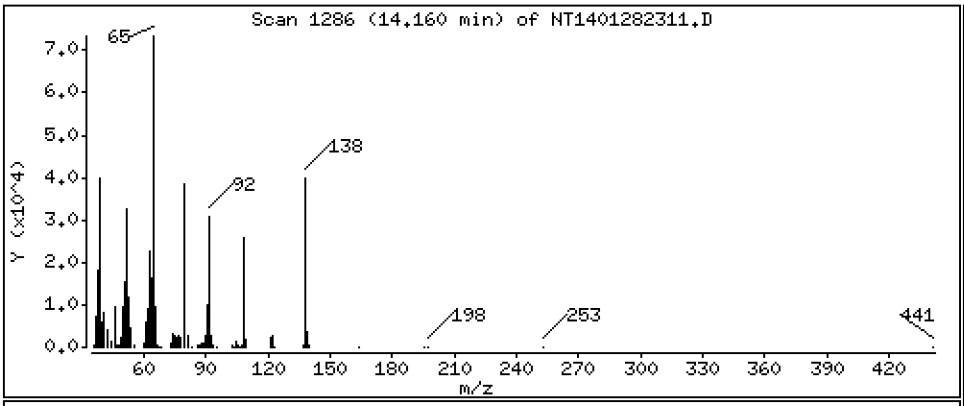
Operator: JGR

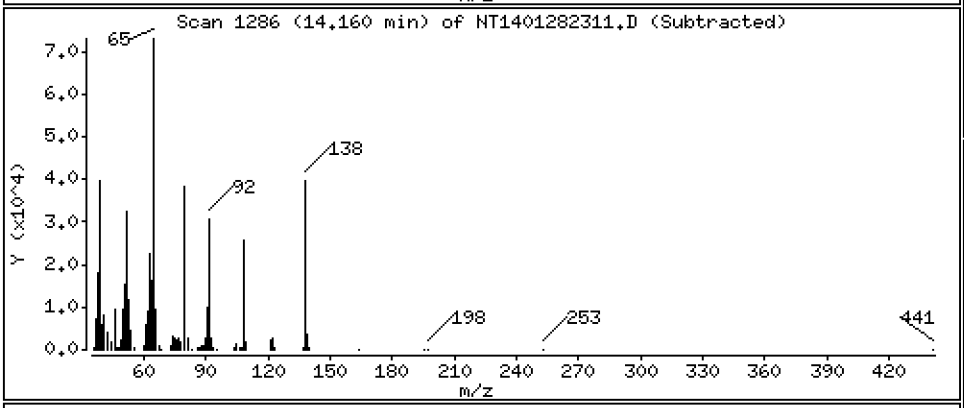
Column phase: ZB-5msi

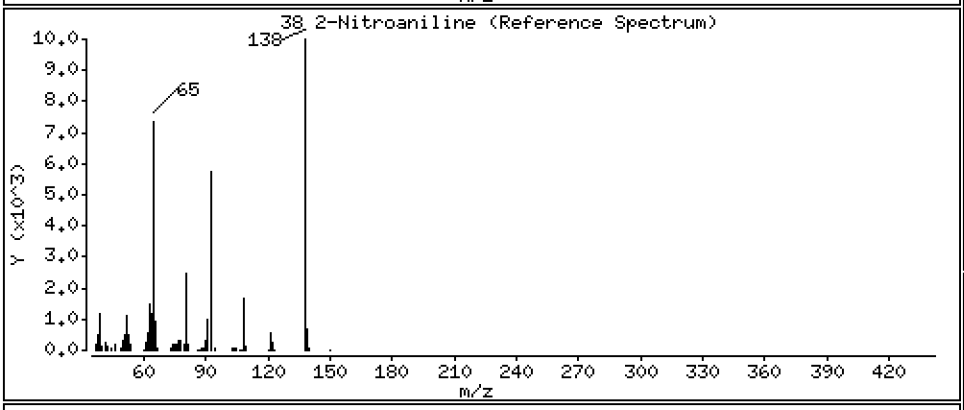
Column diameter: 0.25

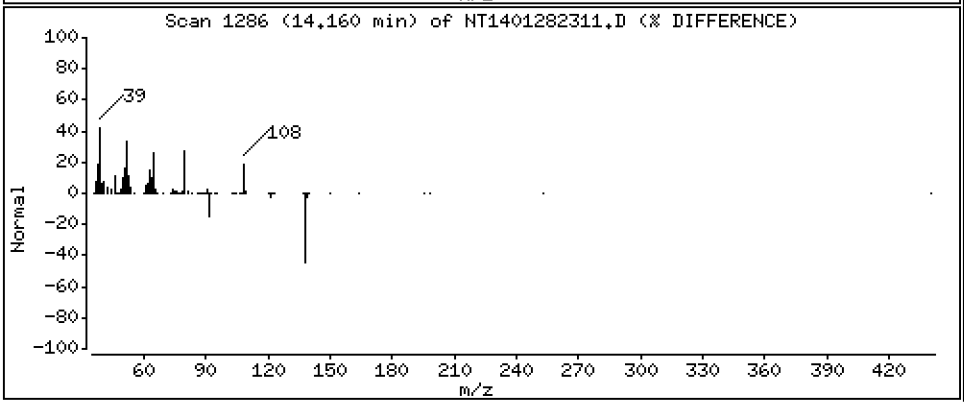
38 2-Nitroaniline

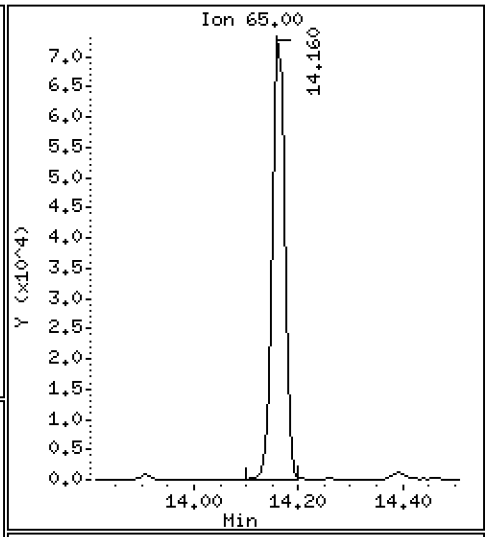
Concentration: 4.509 ug/mL

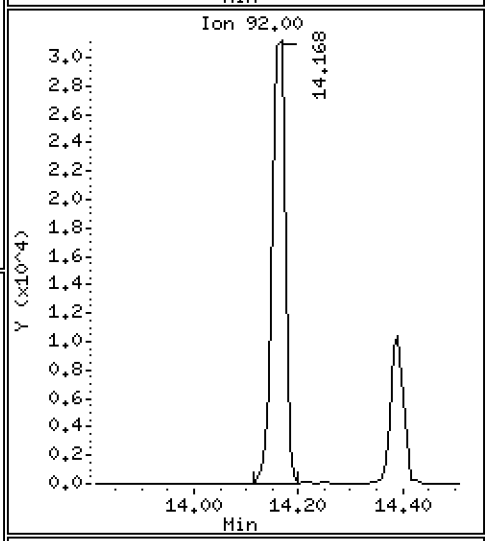


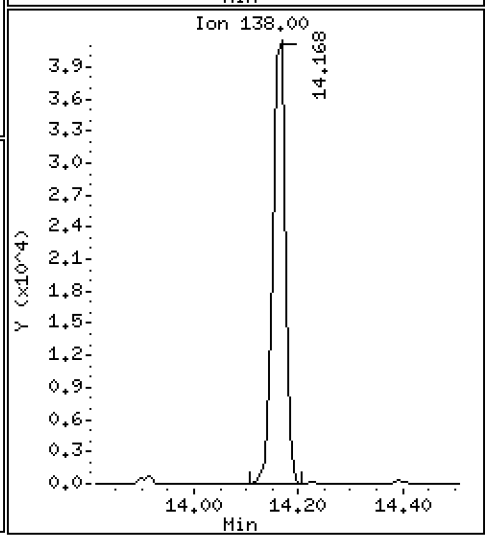












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

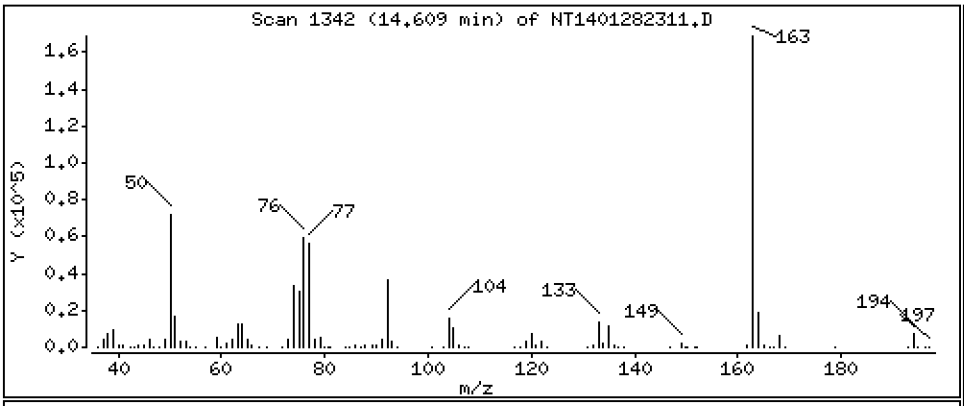
Operator: JGR

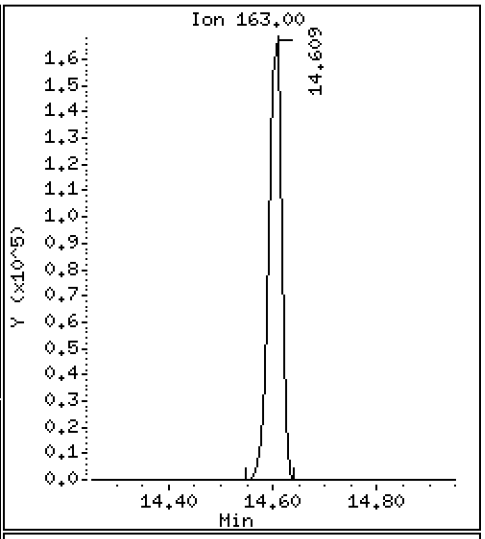
Column phase: ZB-5msi

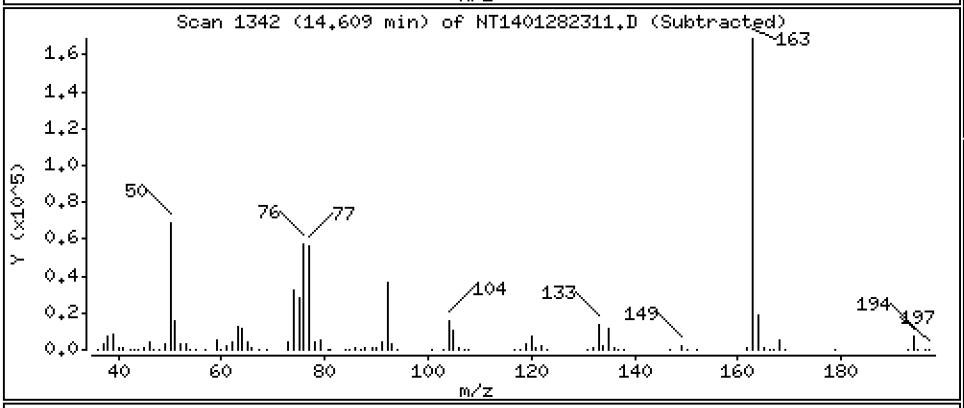
Column diameter: 0.25

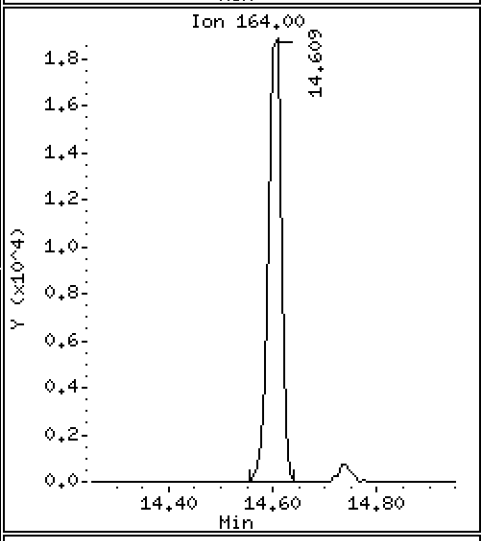
39 Dimethylphthalate

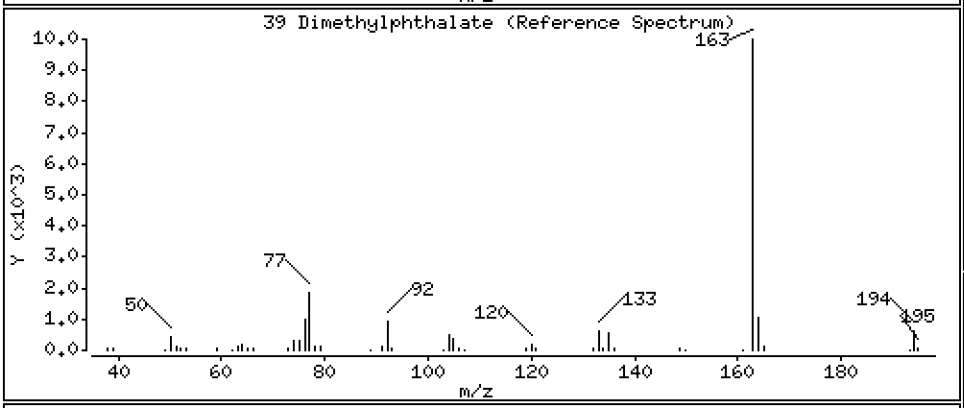
Concentration: 4.875 ug/mL

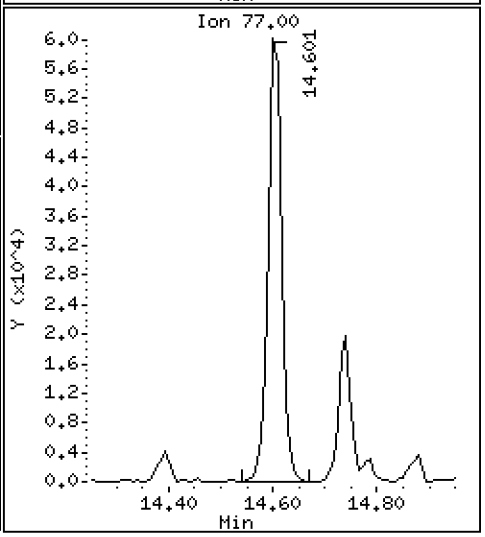


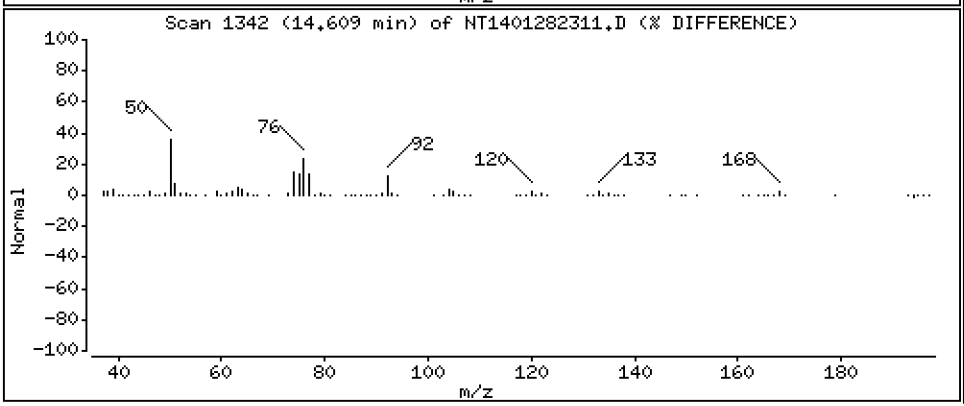












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

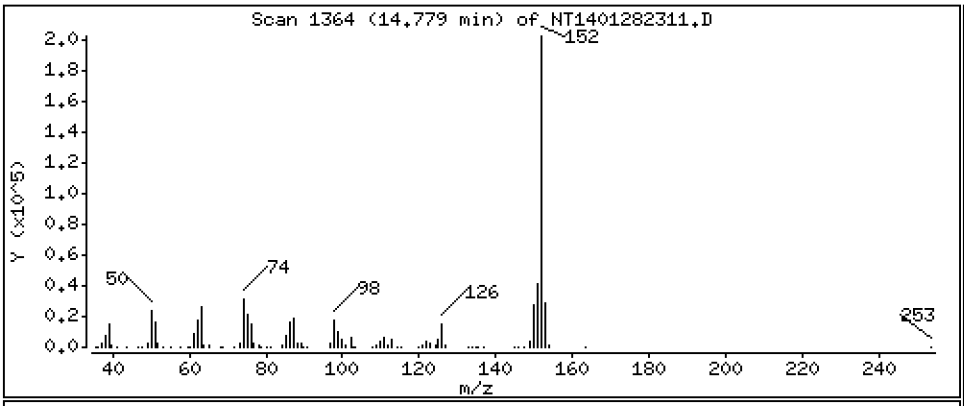
Operator: JGR

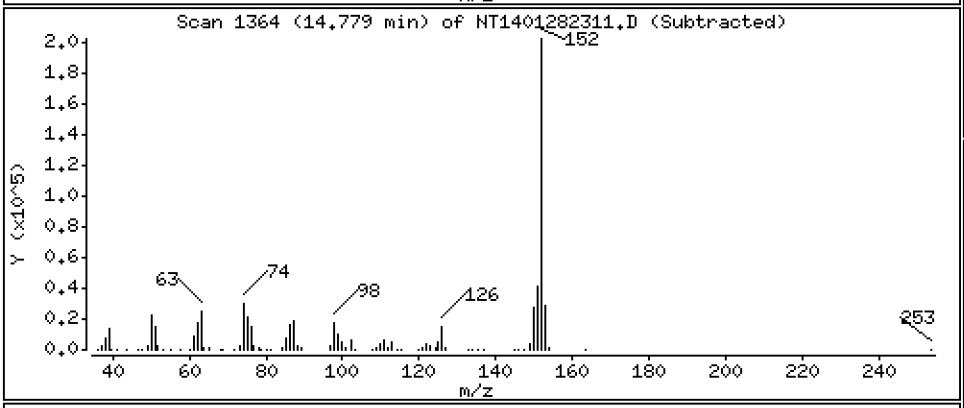
Column phase: ZB-5msi

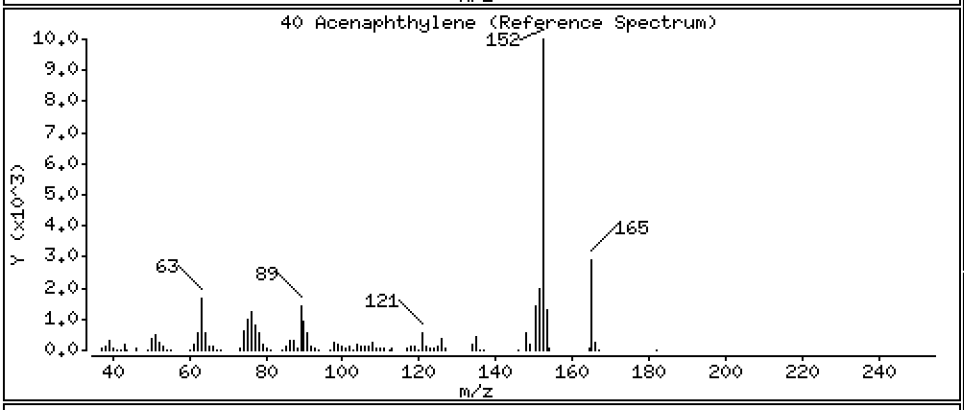
Column diameter: 0.25

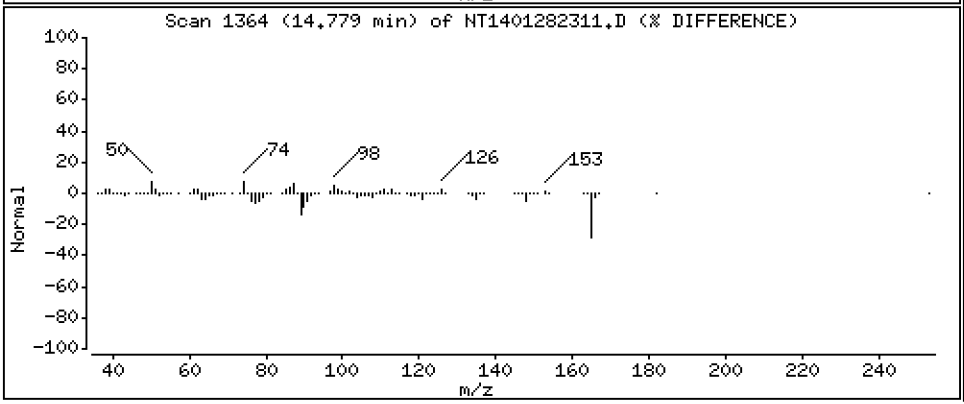
40 Acenaphthylene

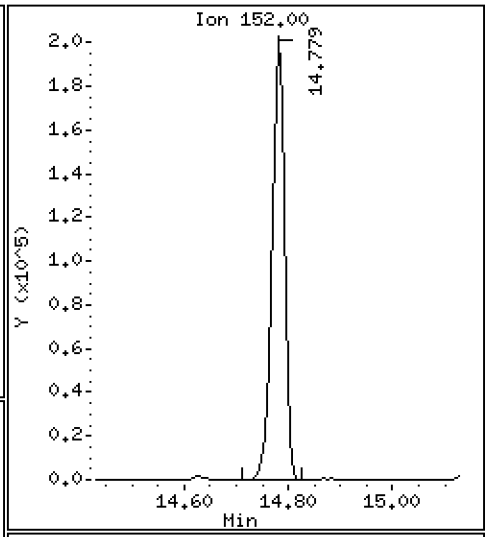
Concentration: 4.695 ug/mL

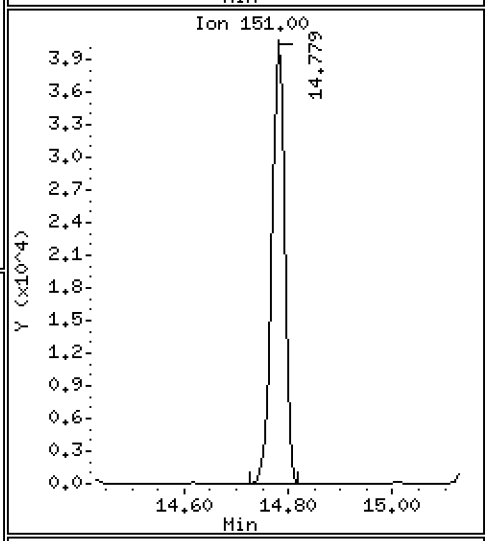


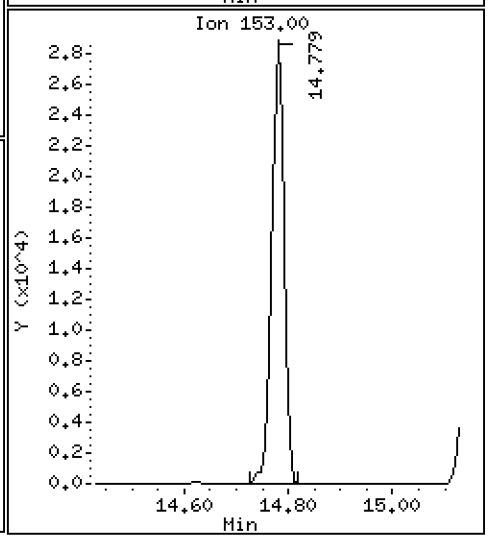












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

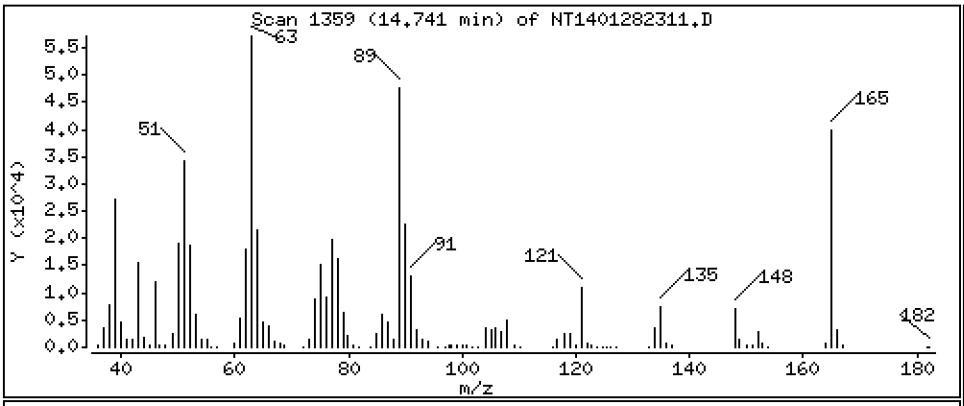
Operator: JGR

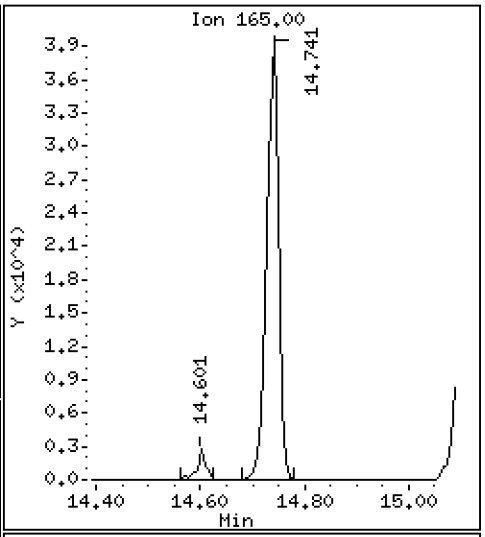
Column phase: ZB-5msi

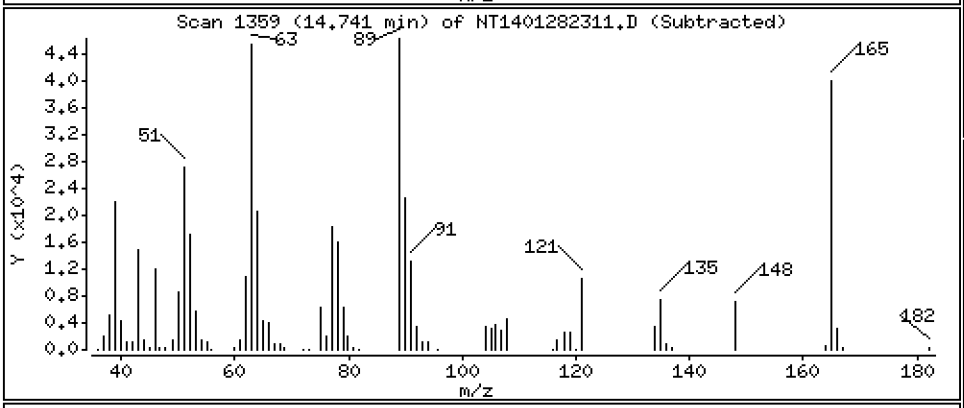
Column diameter: 0.25

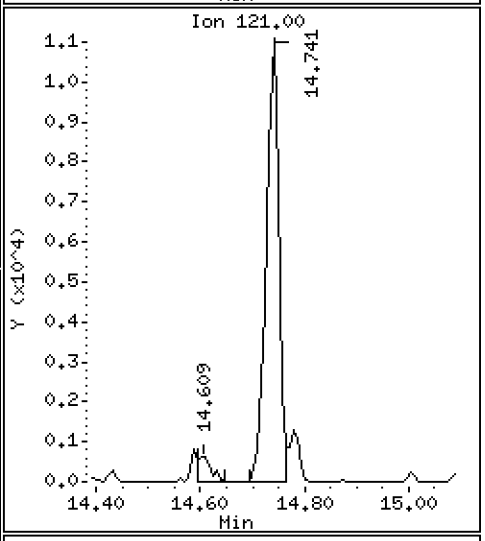
41 2,6-Dinitrotoluene

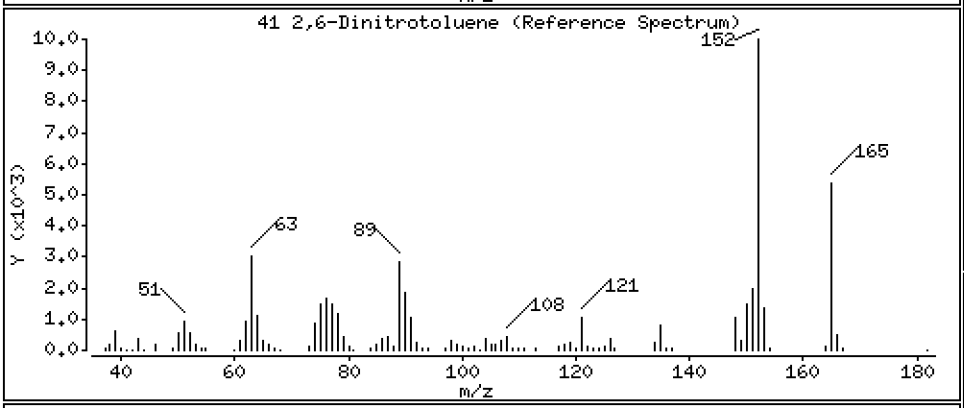
Concentration: 4.603 ug/mL

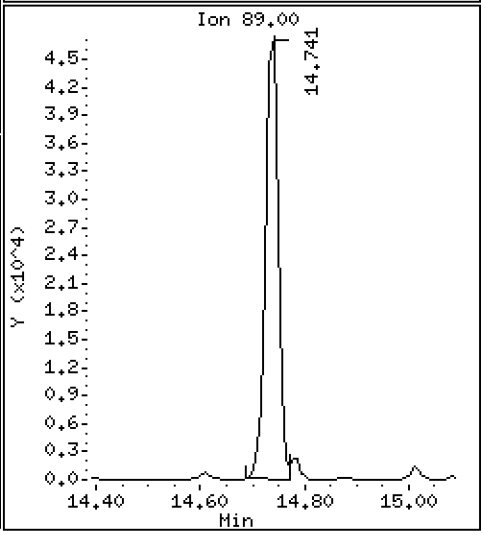


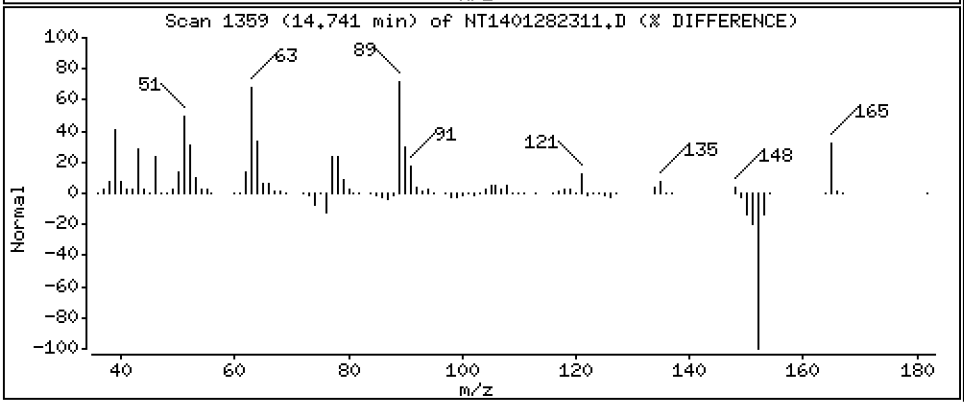












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

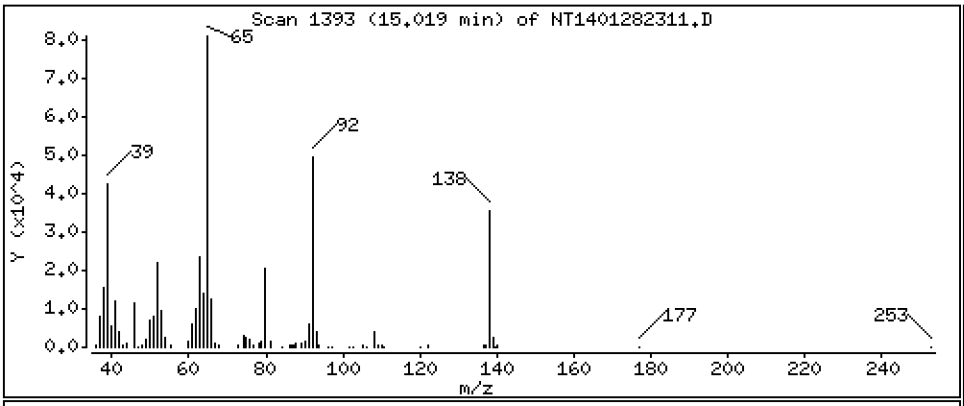
Operator: JGR

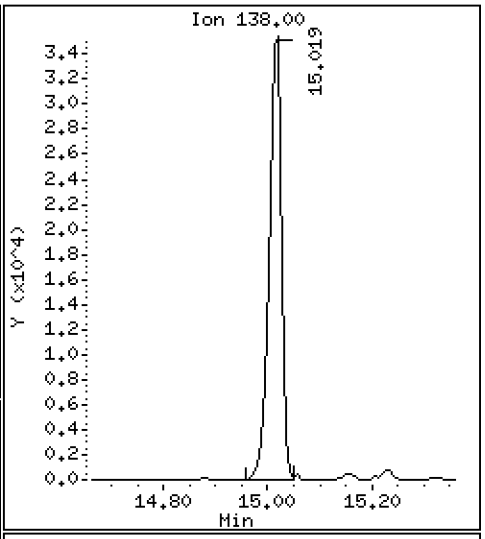
Column phase: ZB-5msi

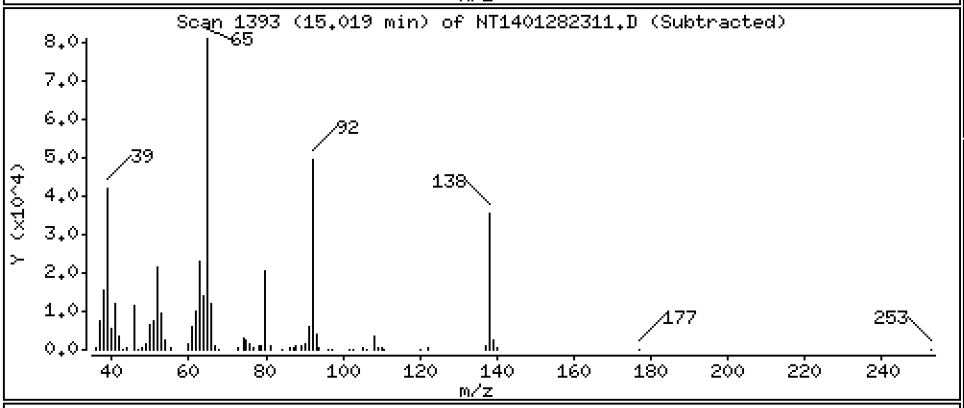
Column diameter: 0.25

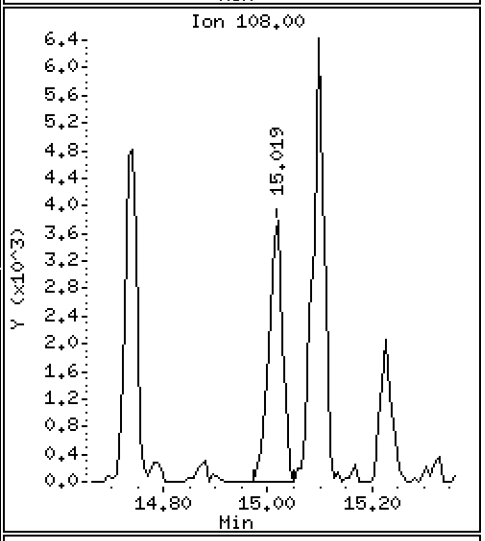
43 3-Nitroaniline

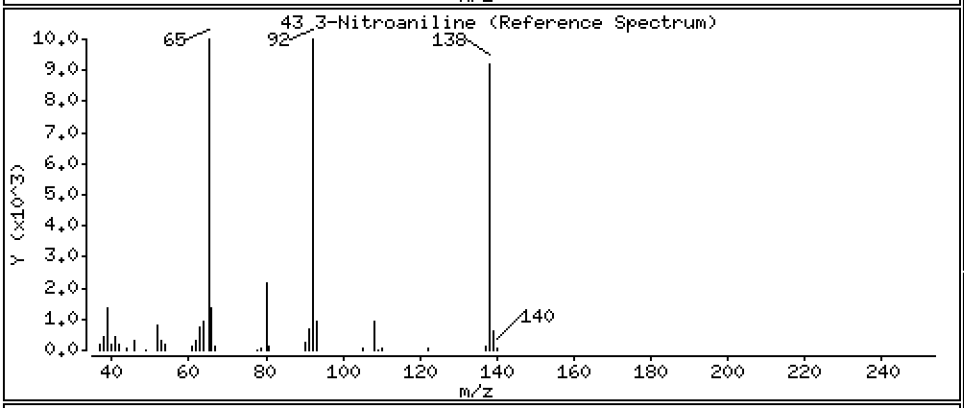
Concentration: 4.476 ug/mL

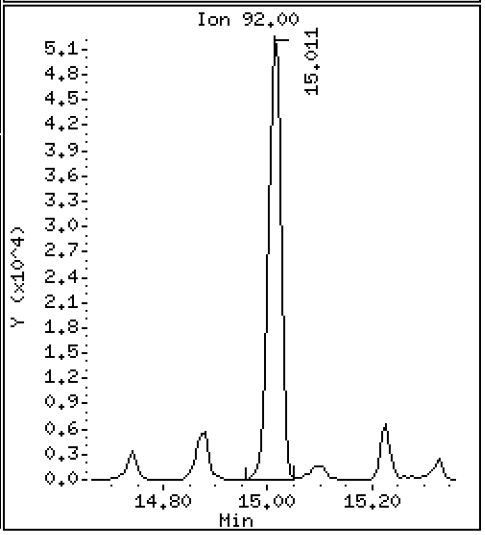


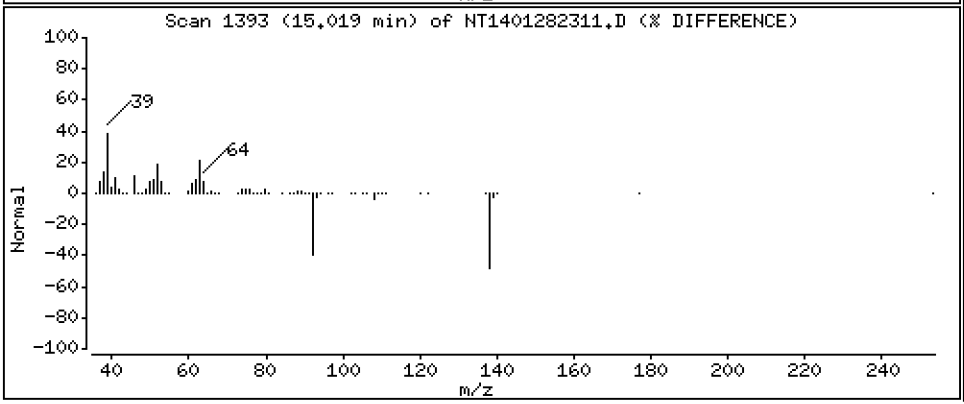












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

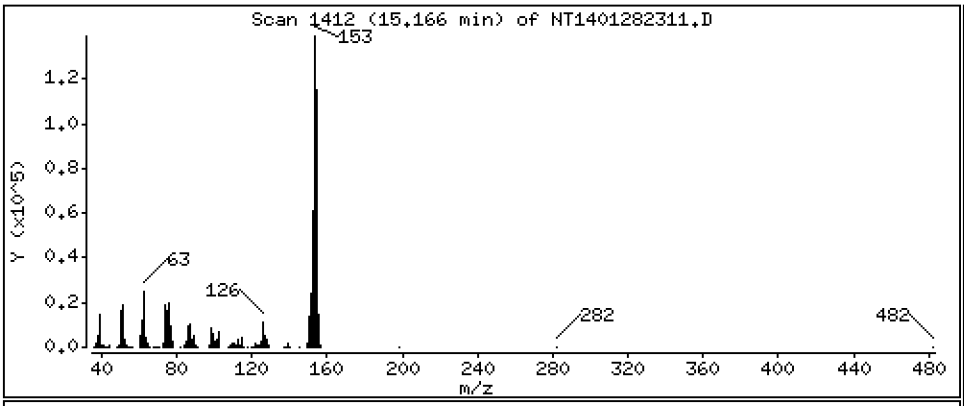
Operator: JGR

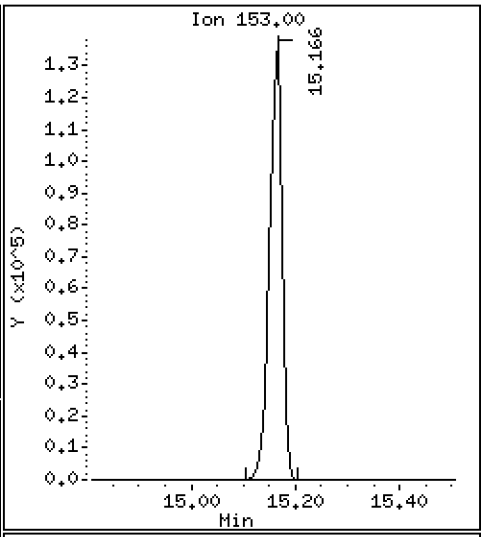
Column phase: ZB-5msi

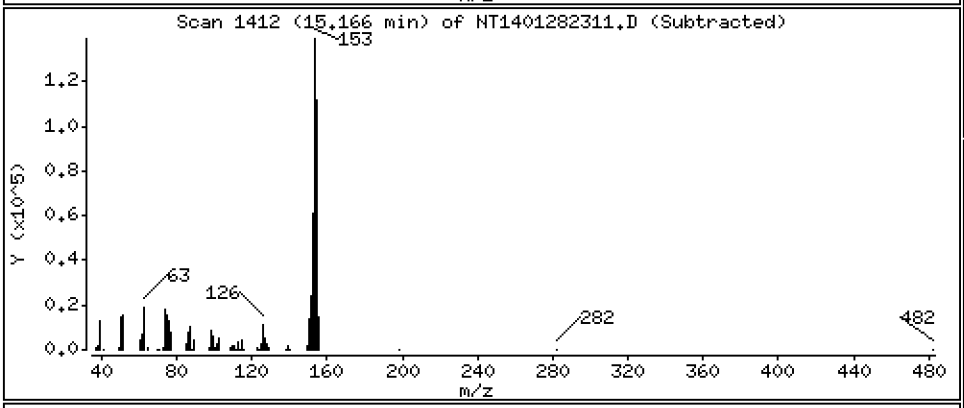
Column diameter: 0.25

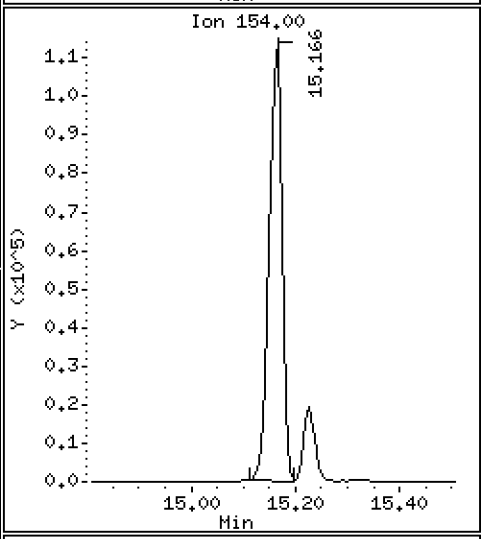
44 Acenaphthene

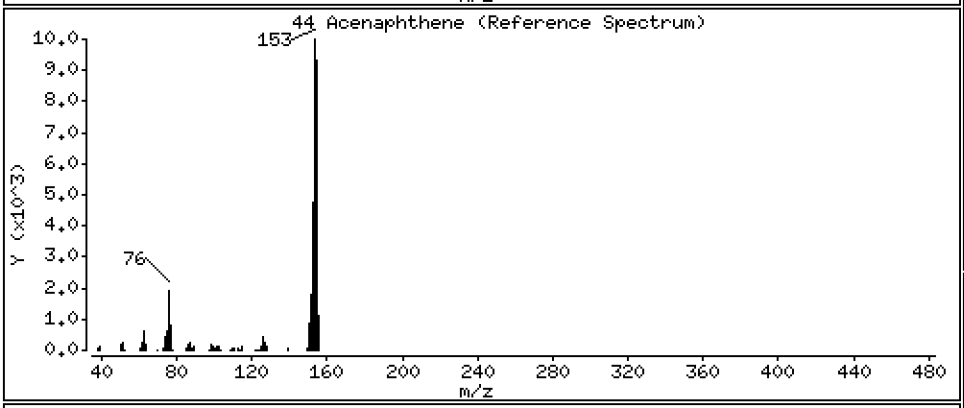
Concentration: 4.827 ug/mL

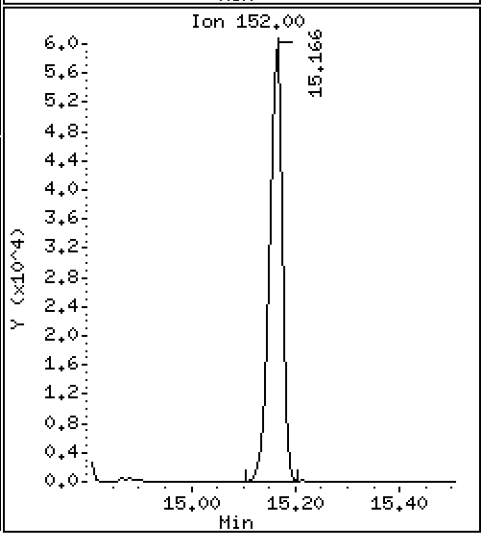


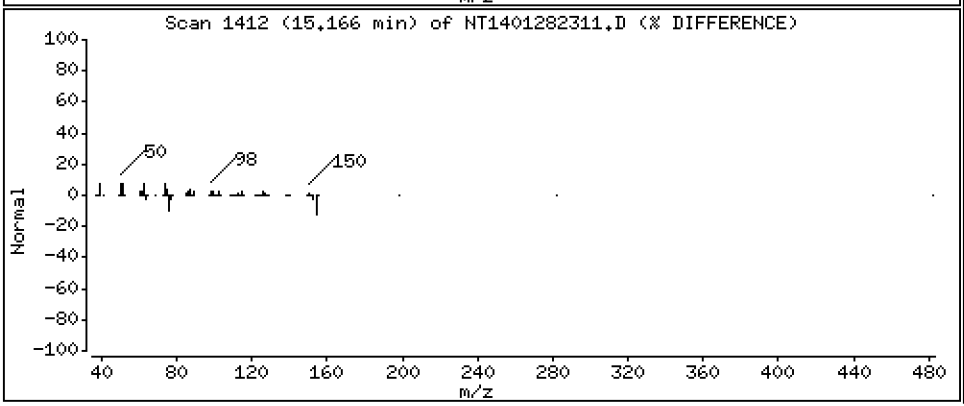












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

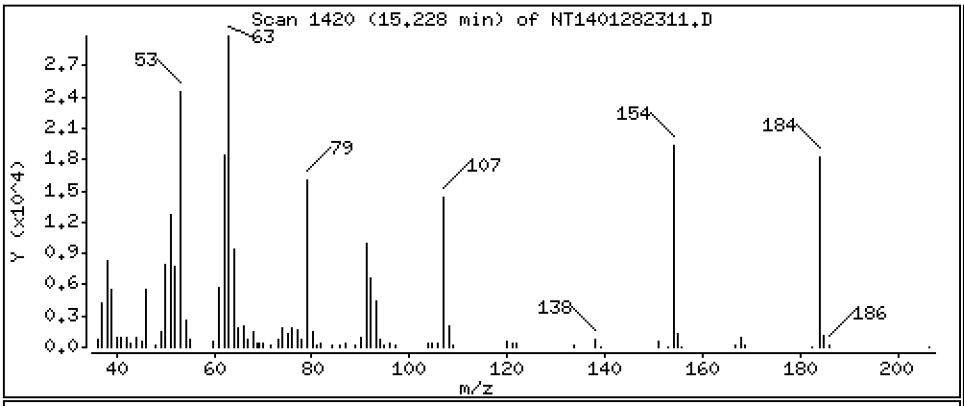
Operator: JGR

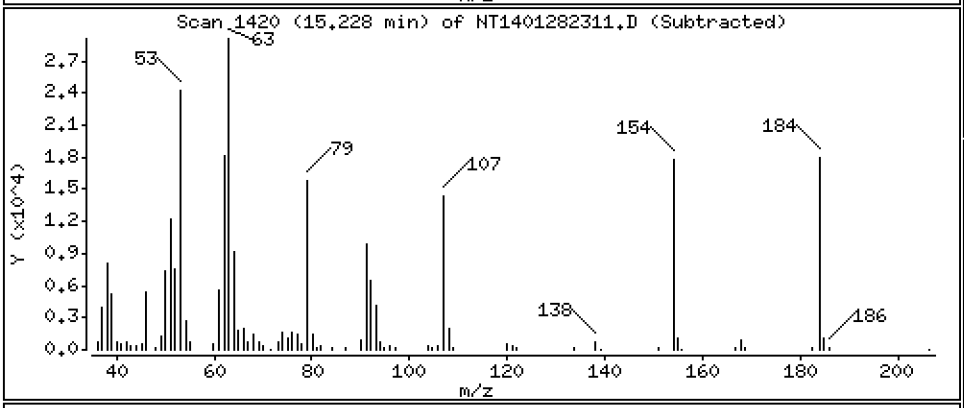
Column phase: ZB-5msi

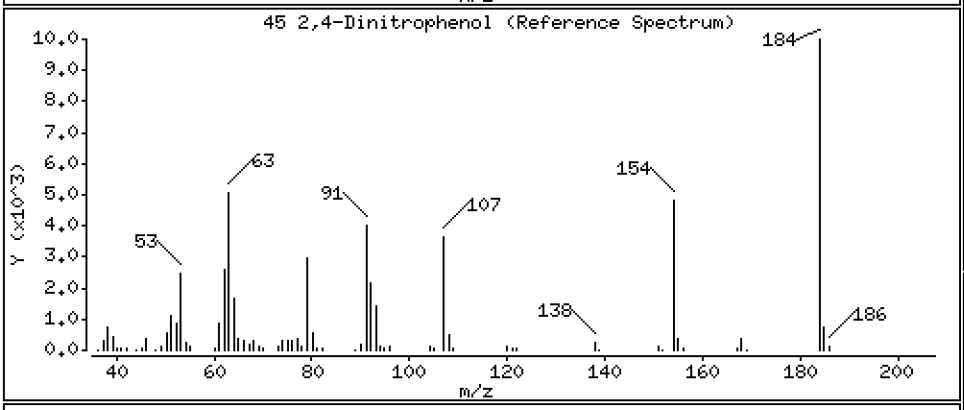
Column diameter: 0.25

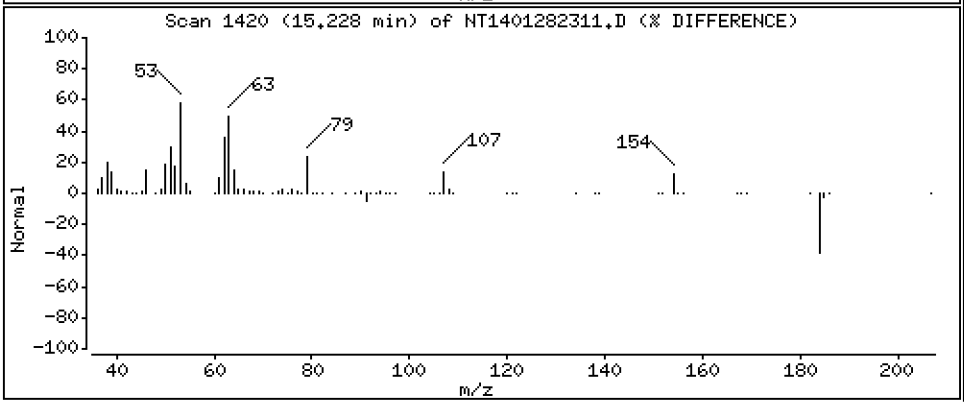
45 2,4-Dinitrophenol

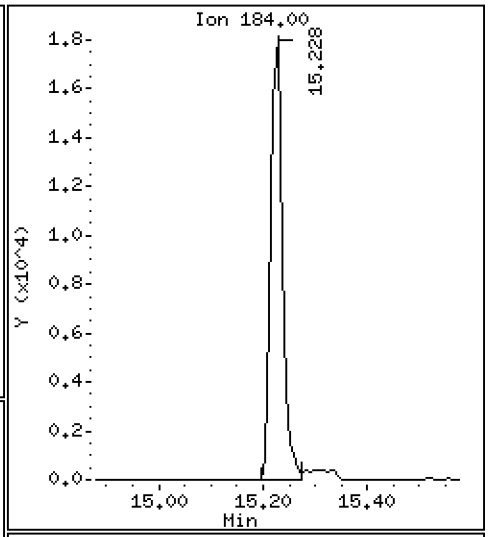
Concentration: 2.106 ug/mL

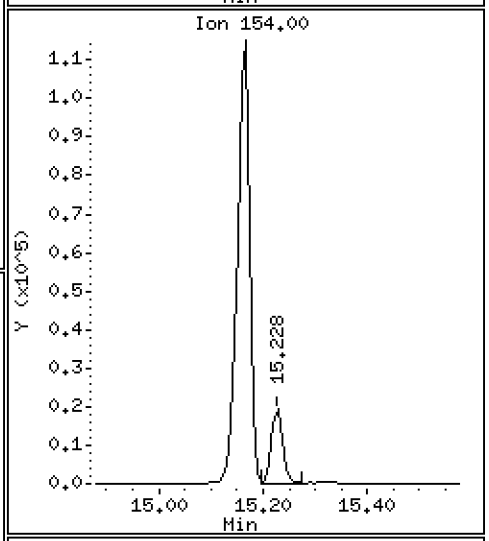


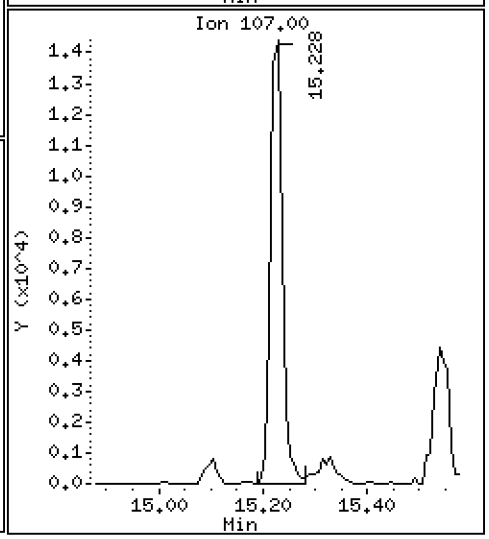












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

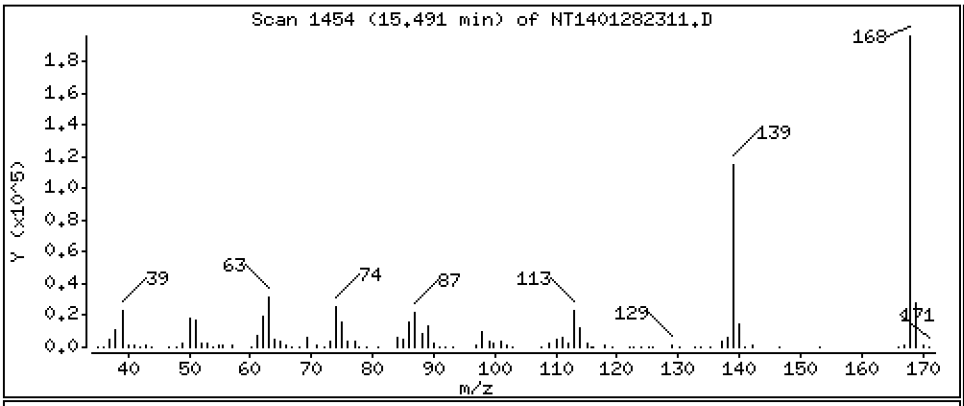
Operator: JGR

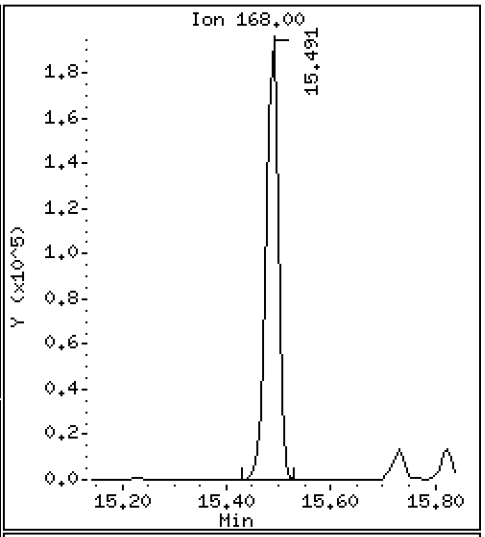
Column phase: ZB-5msi

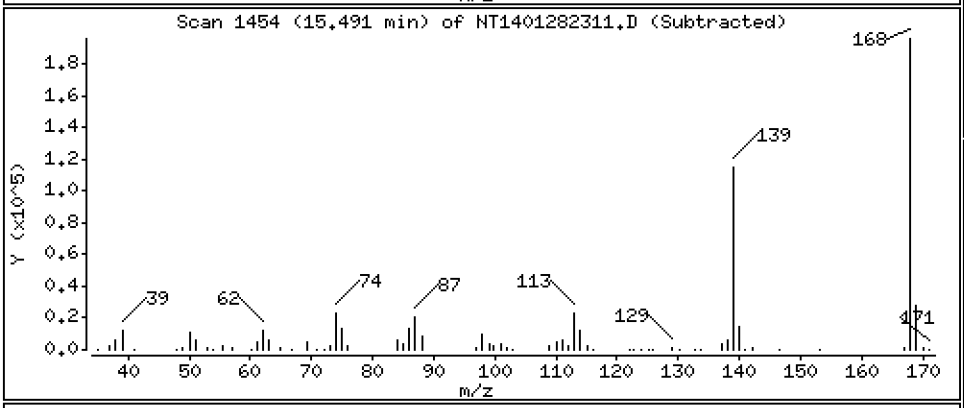
Column diameter: 0.25

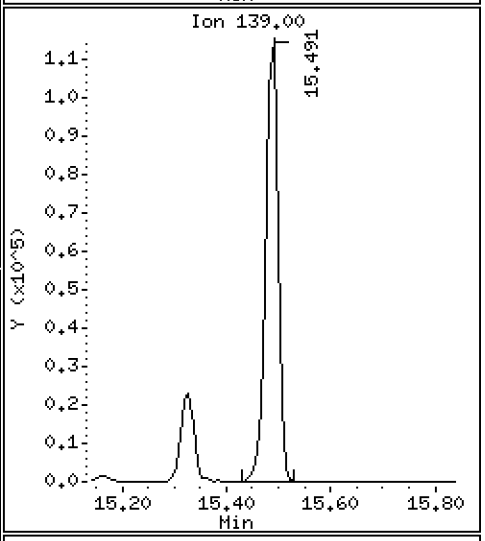
46 Dibenzofuran

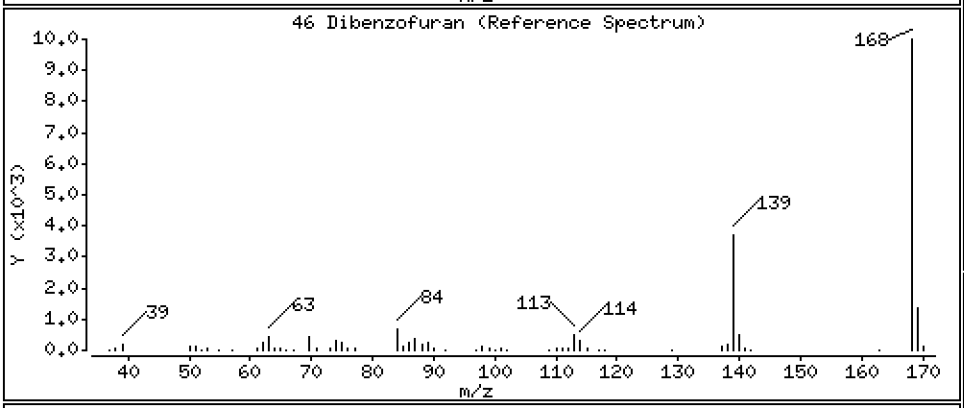
Concentration: 4.553 ug/mL

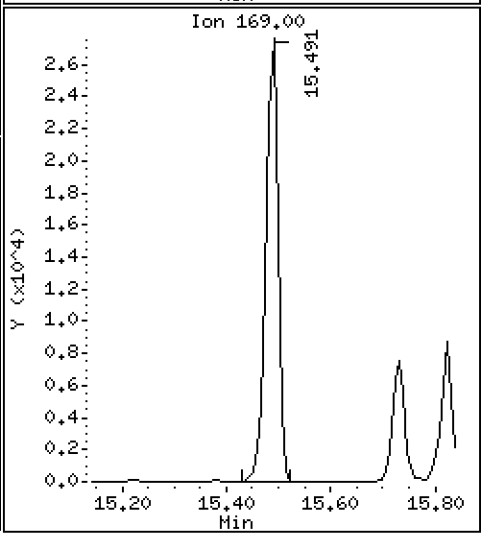


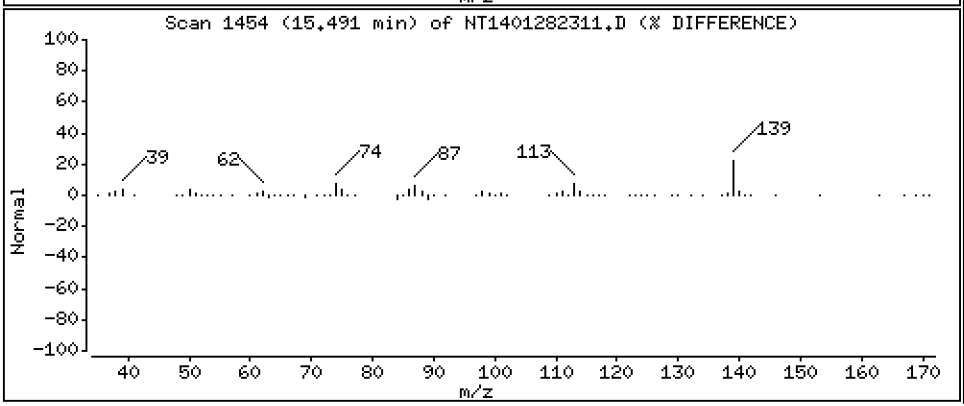












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

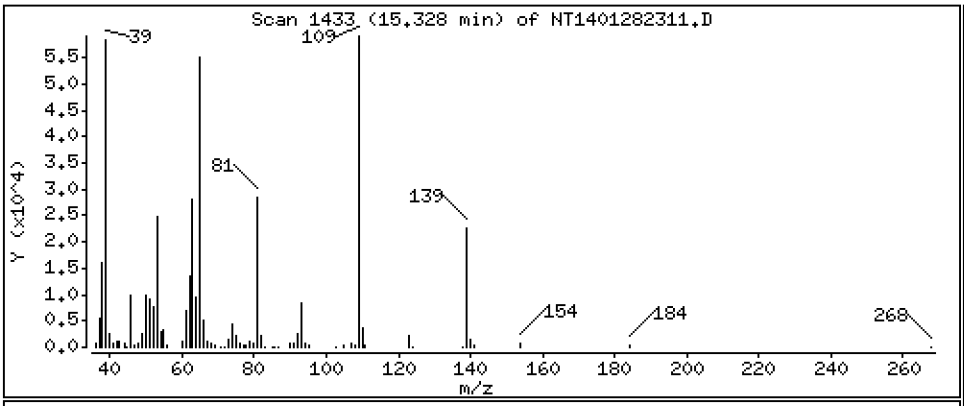
Operator: JGR

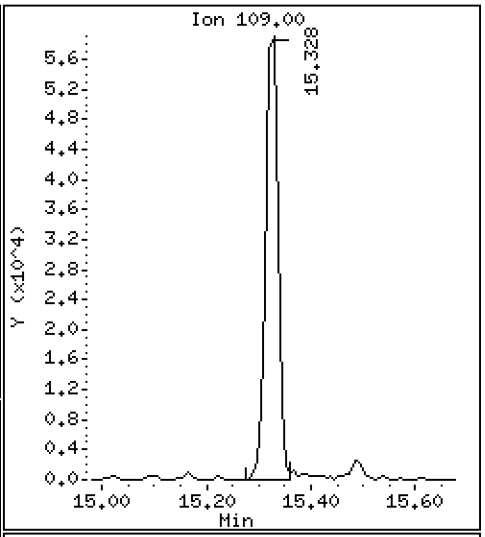
Column phase: ZB-5msi

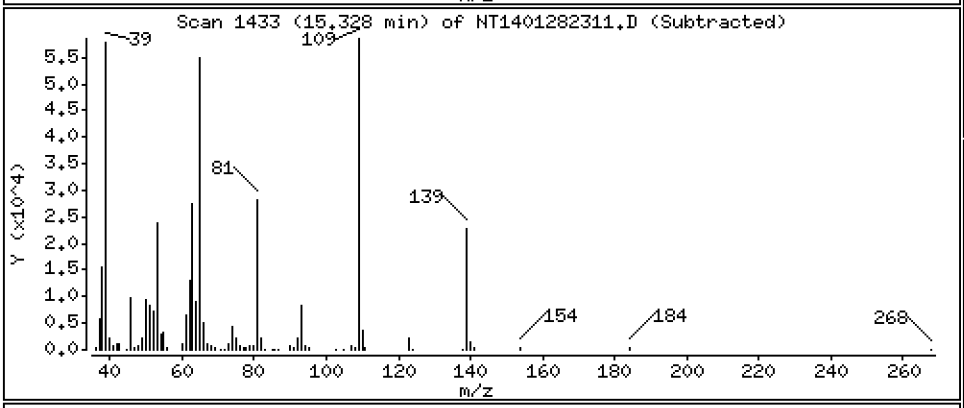
Column diameter: 0.25

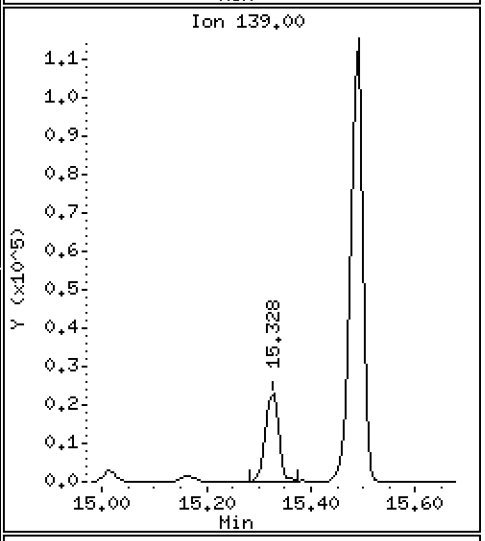
47 4-Nitrophenol

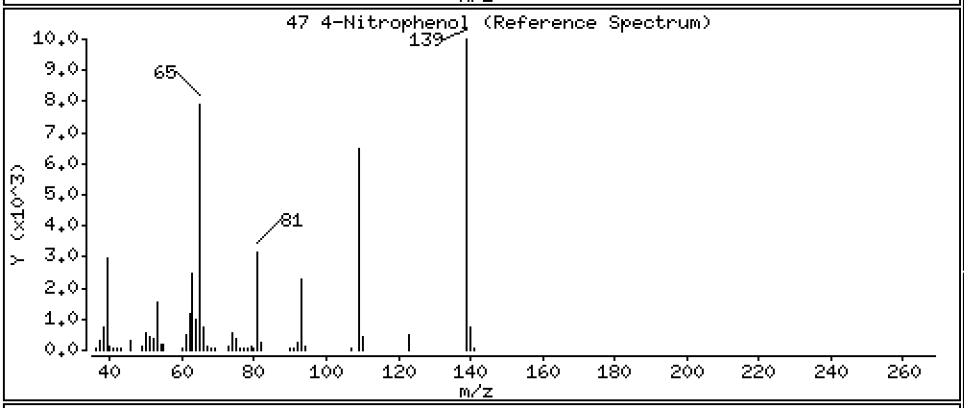
Concentration: 3.657 ug/mL

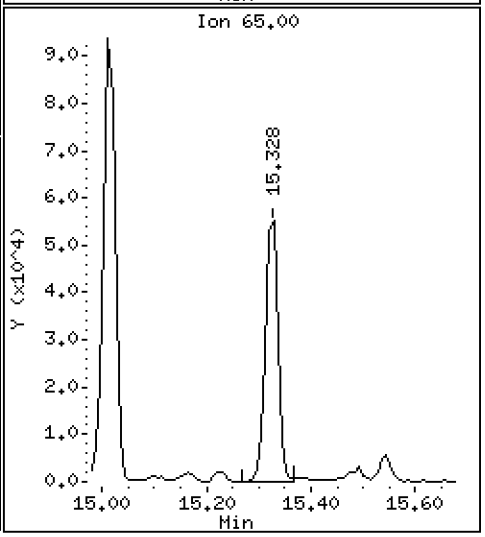


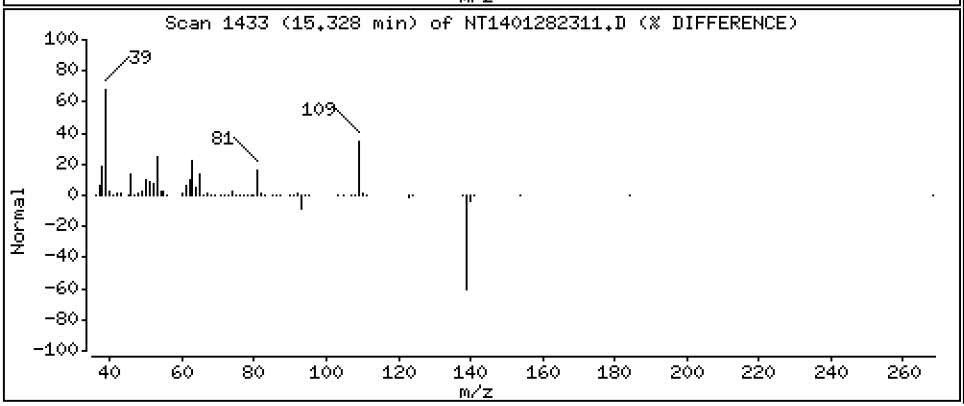












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

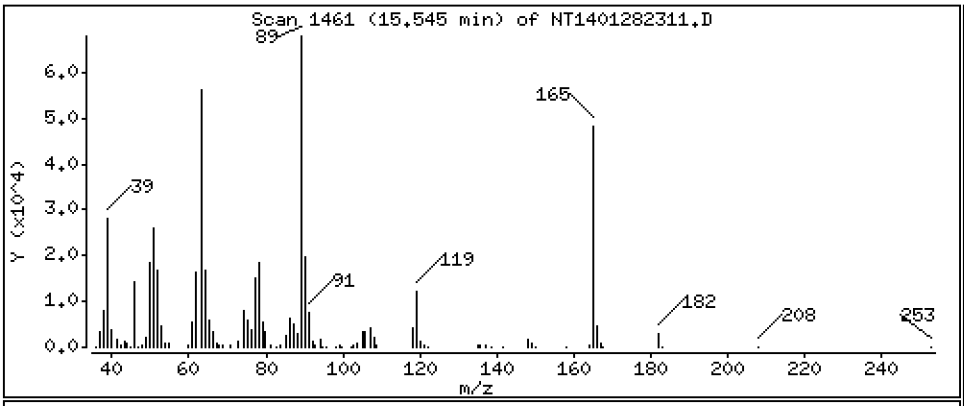
Operator: JGR

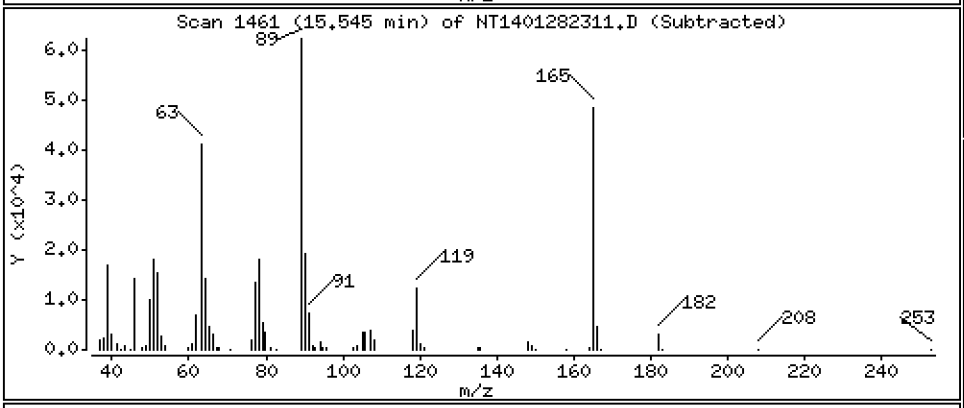
Column phase: ZB-5msi

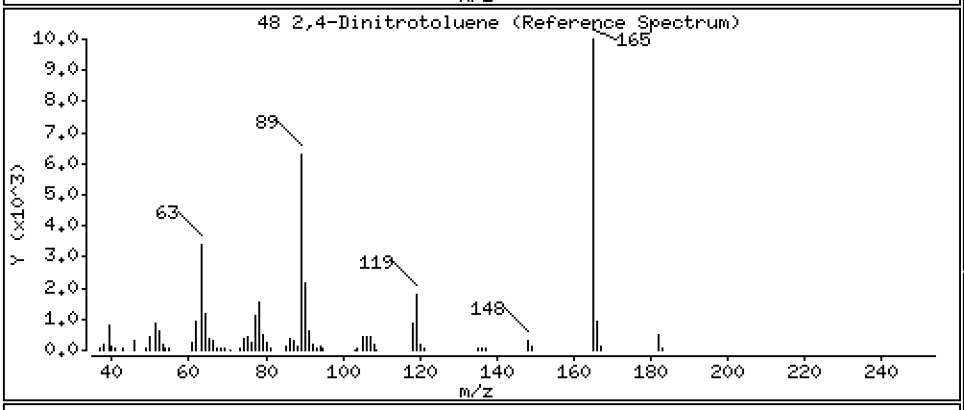
Column diameter: 0.25

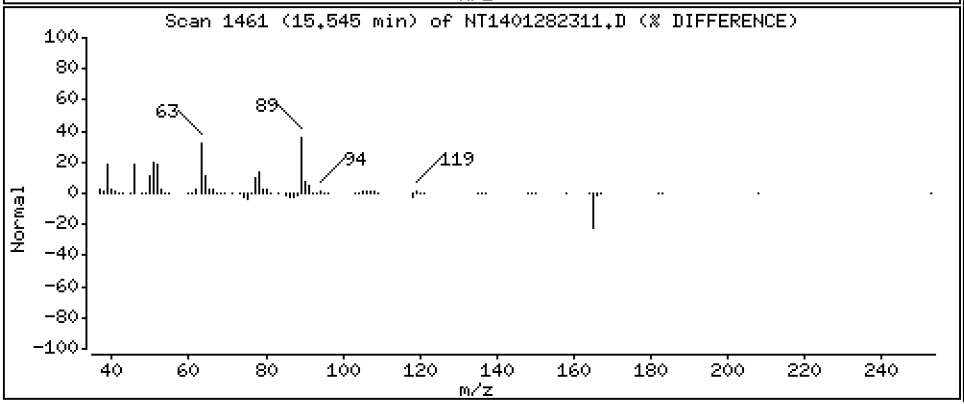
48 2,4-Dinitrotoluene

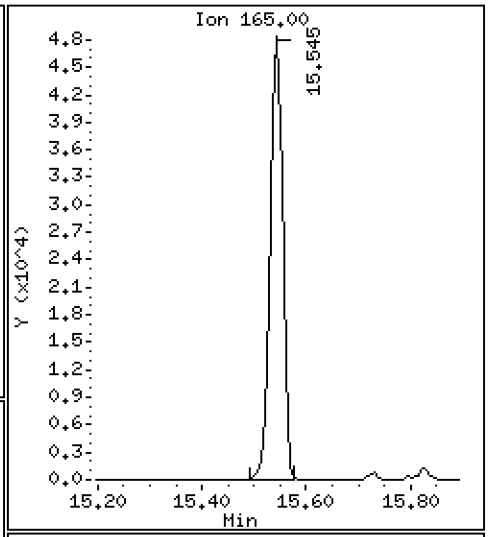
Concentration: 4.312 ug/mL

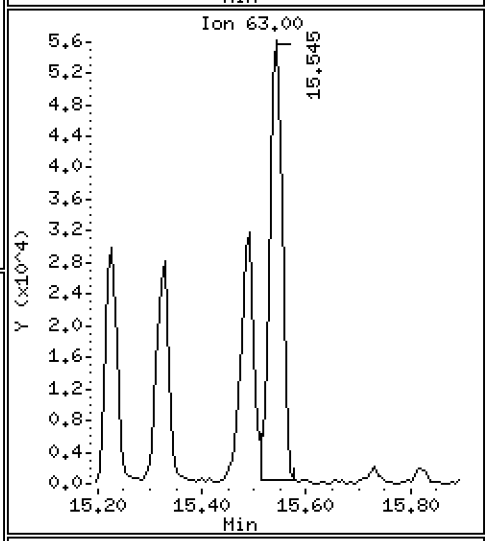


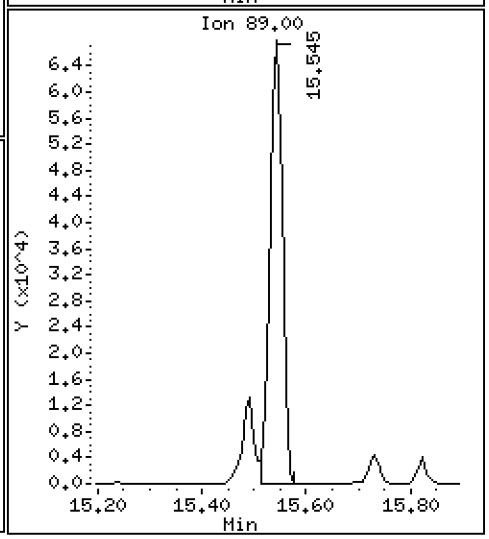












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

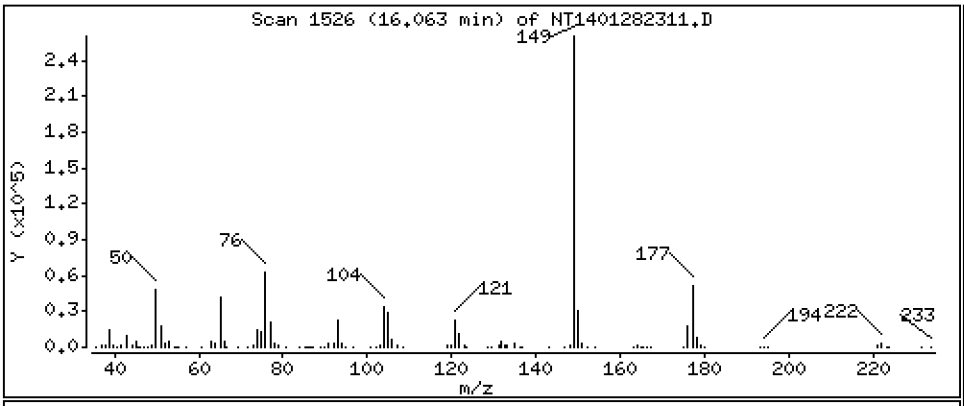
Operator: JGR

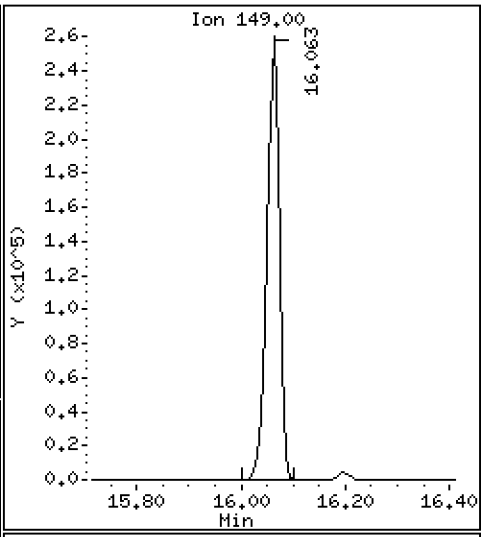
Column phase: ZB-5msi

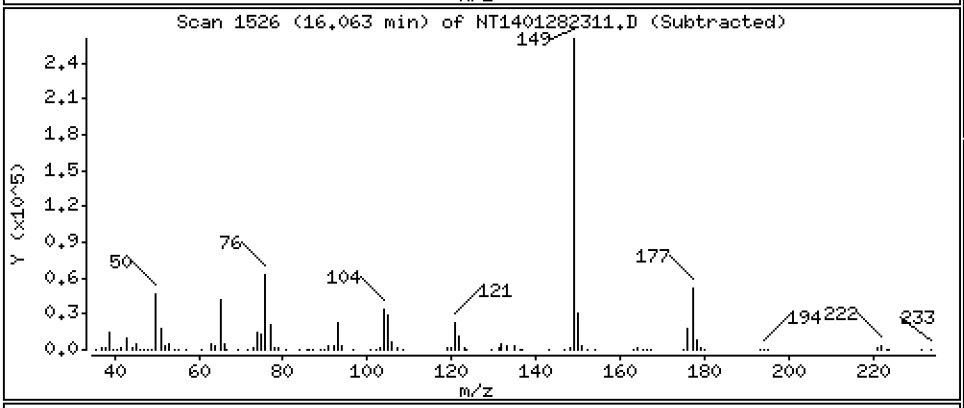
Column diameter: 0.25

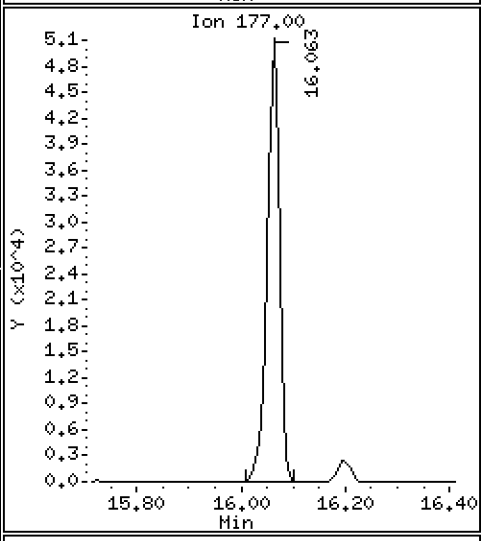
50 Diethylphthalate

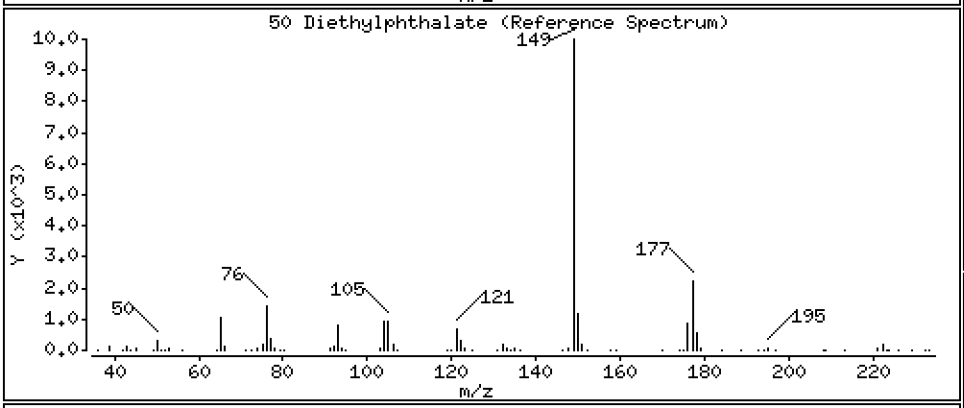
Concentration: 4.955 ug/mL

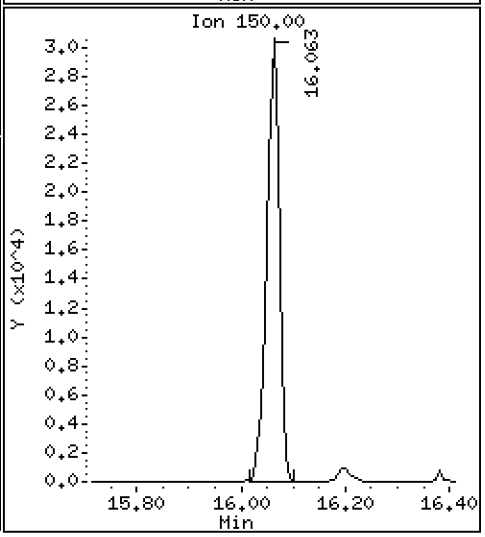


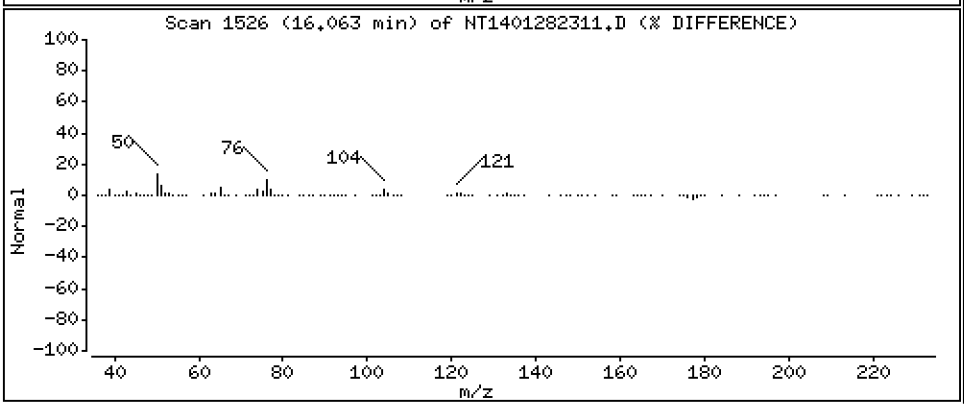












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

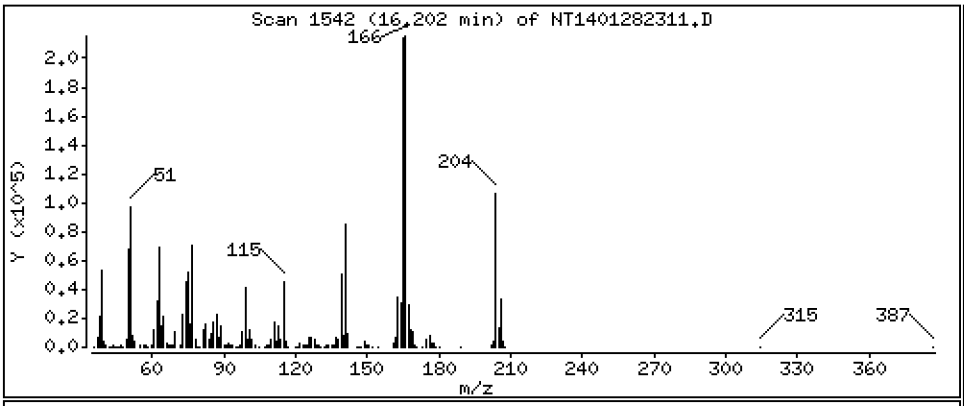
Operator: JGR

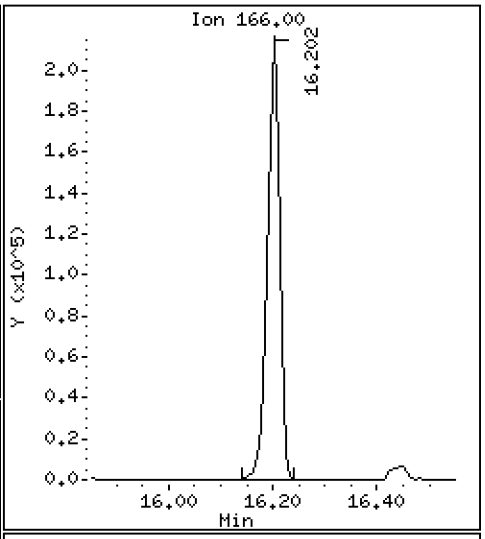
Column phase: ZB-5msi

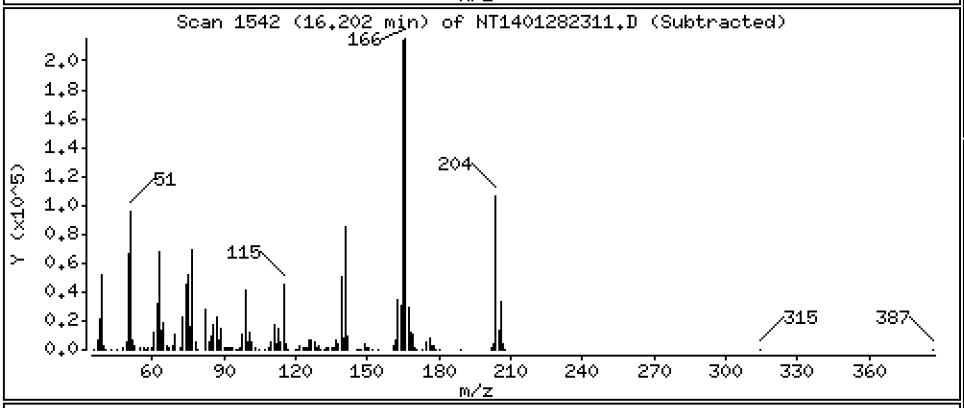
Column diameter: 0.25

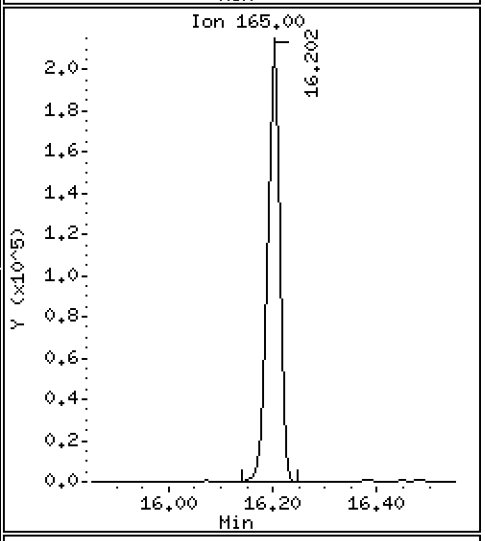
49 Fluorene

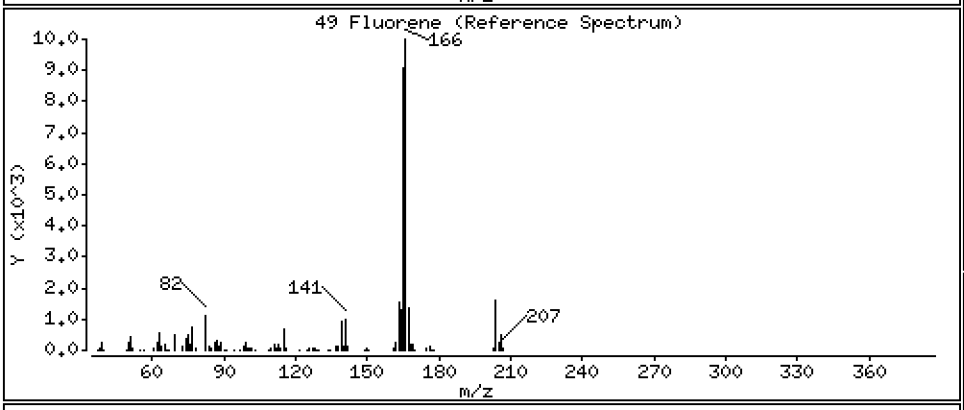
Concentration: 4.724 ug/mL

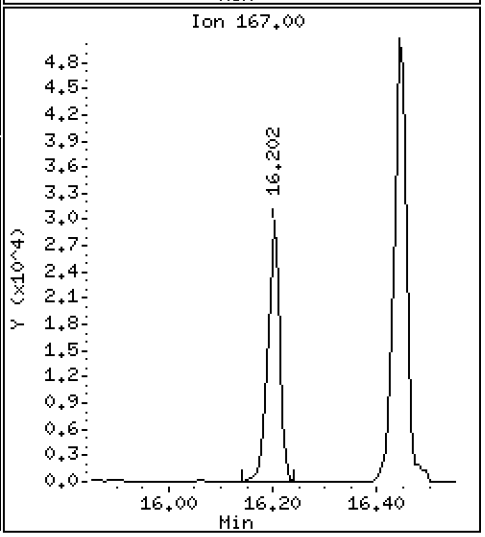


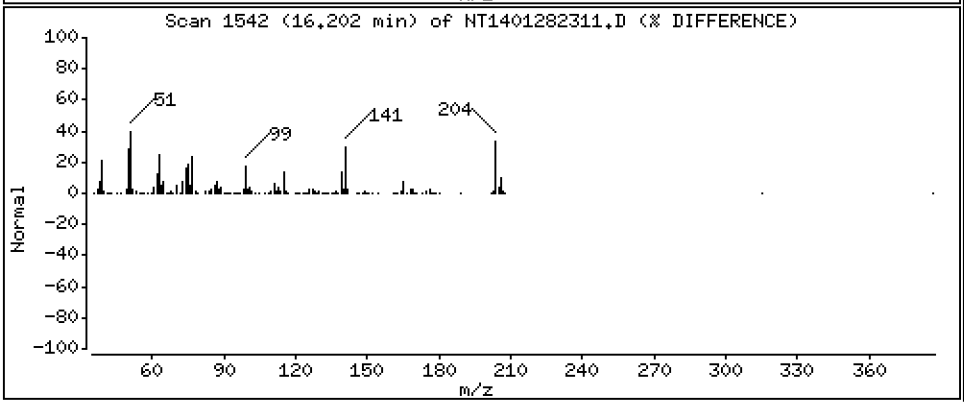












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

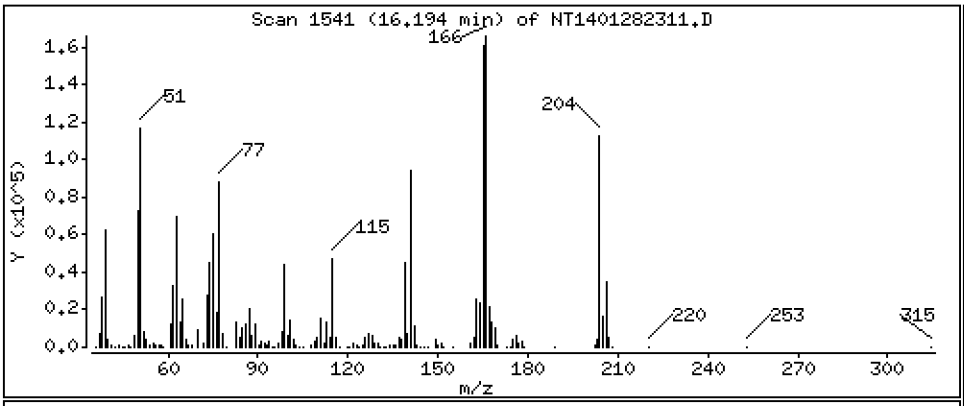
Operator: JGR

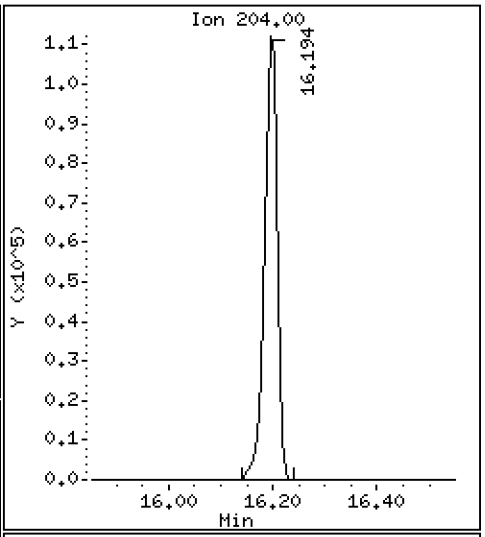
Column phase: ZB-5msi

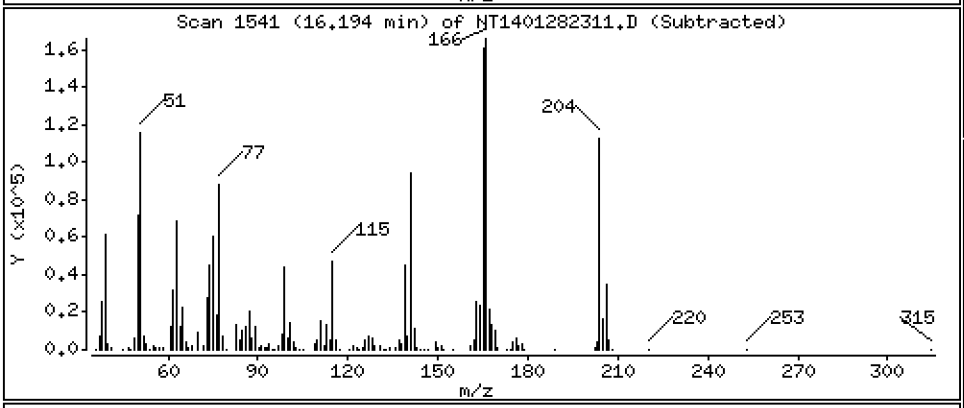
Column diameter: 0.25

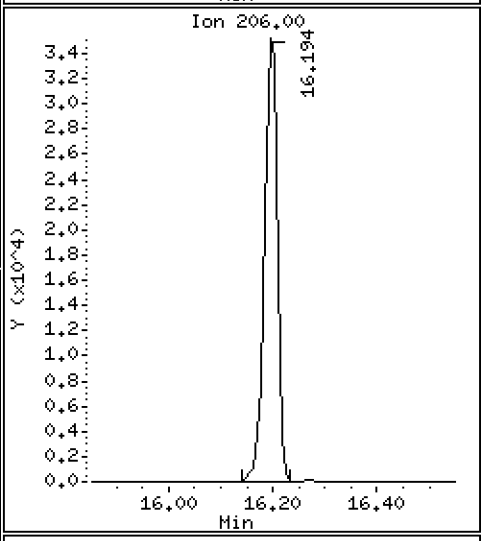
51 4-Chlorophenyl-phenylether

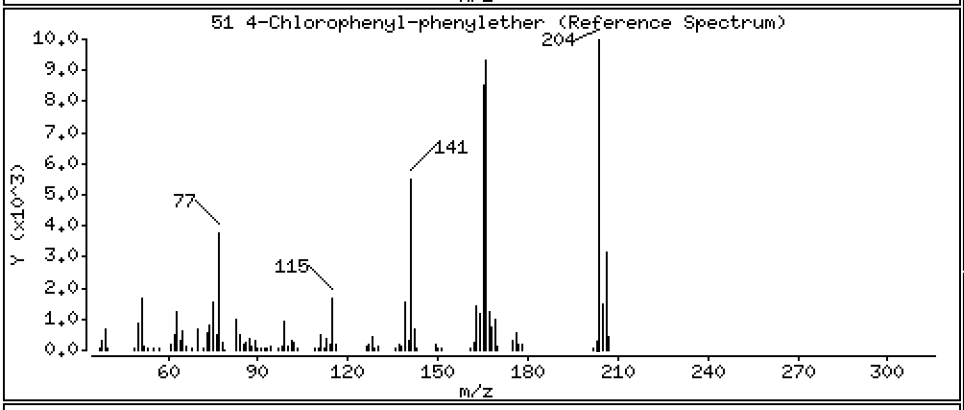
Concentration: 4.484 ug/mL

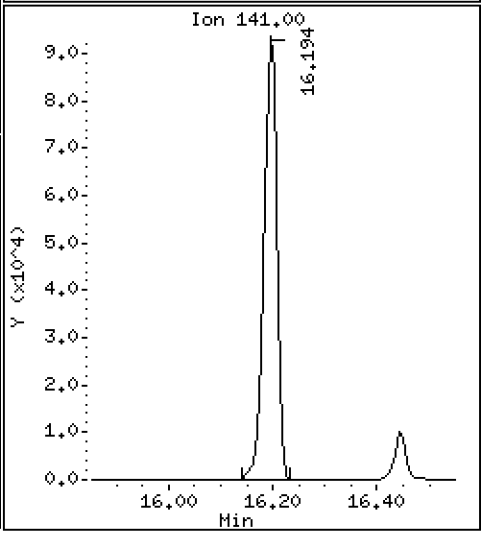


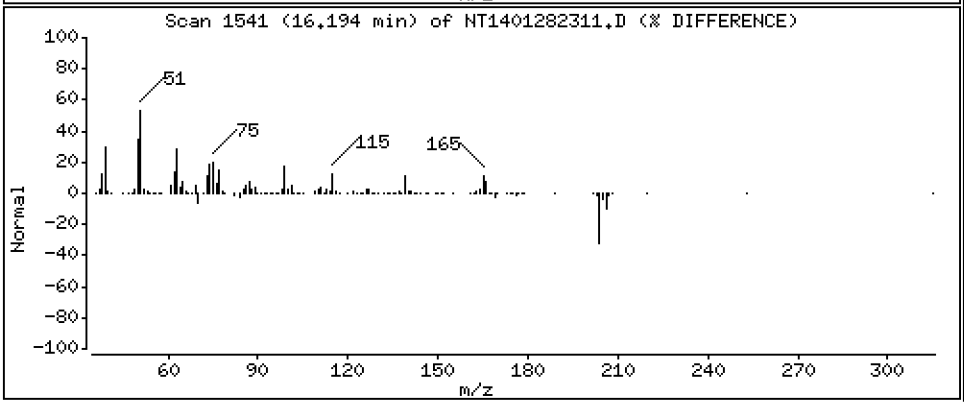












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

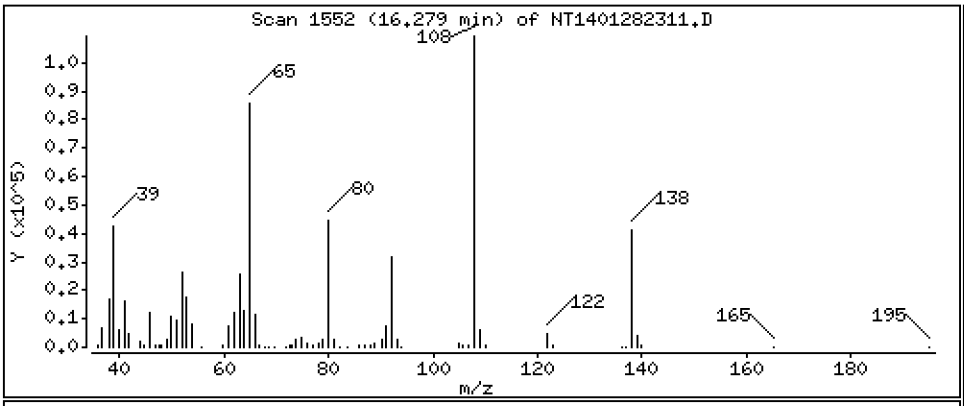
Operator: JGR

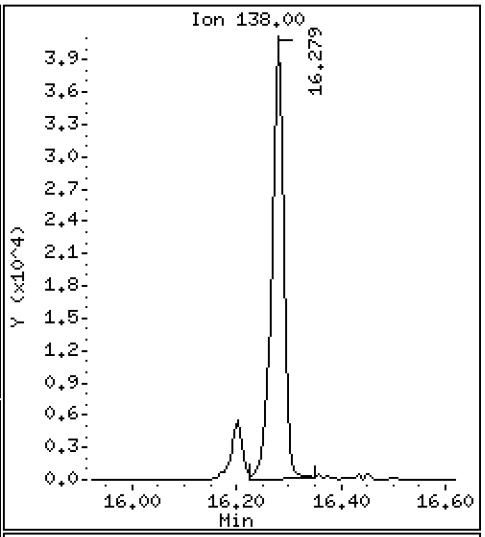
Column phase: ZB-5msi

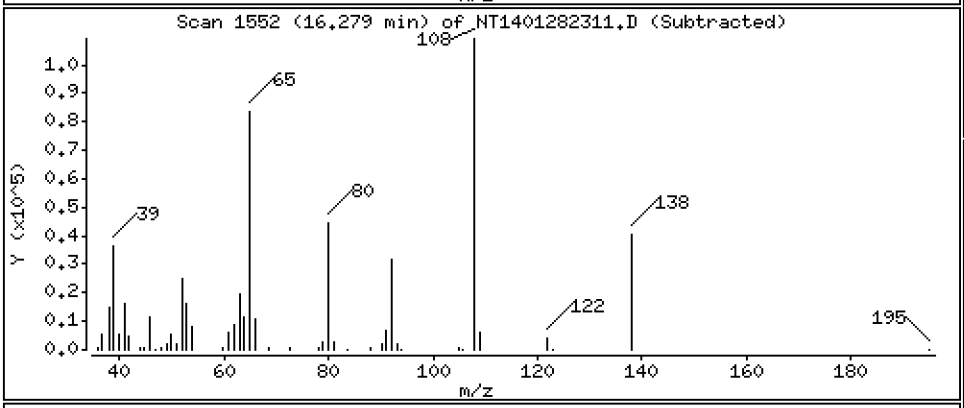
Column diameter: 0.25

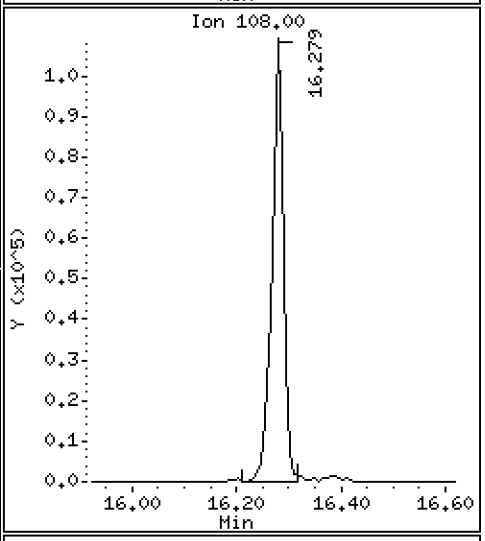
52 4-Nitroaniline

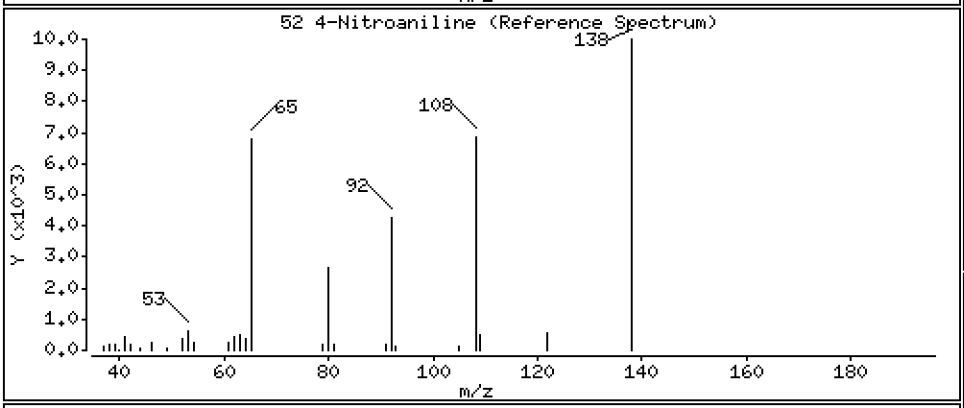
Concentration: 4.505 ug/mL

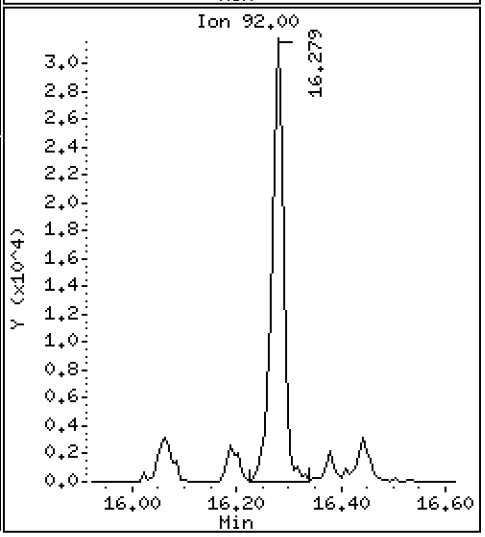


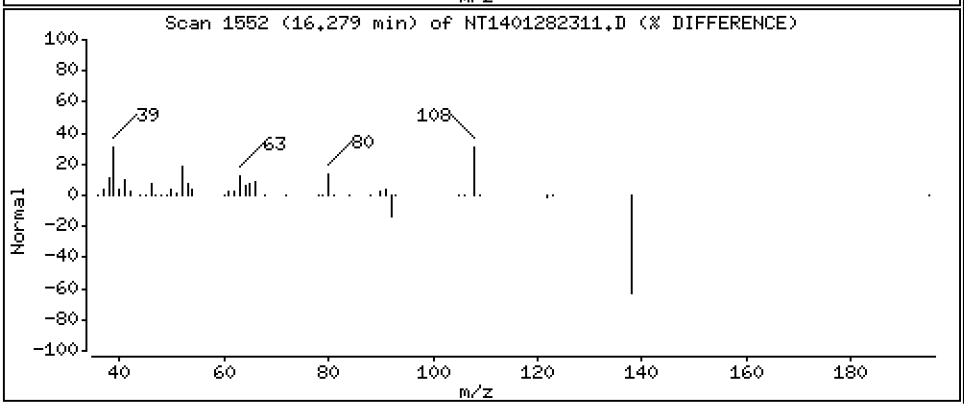












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

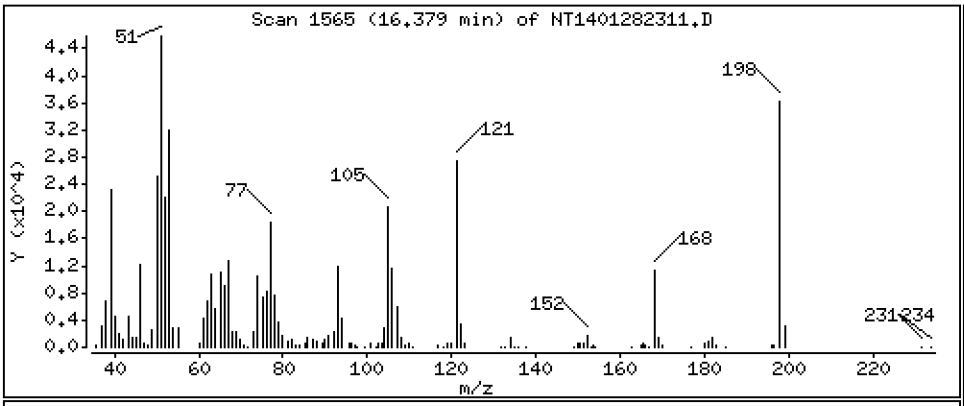
Operator: JGR

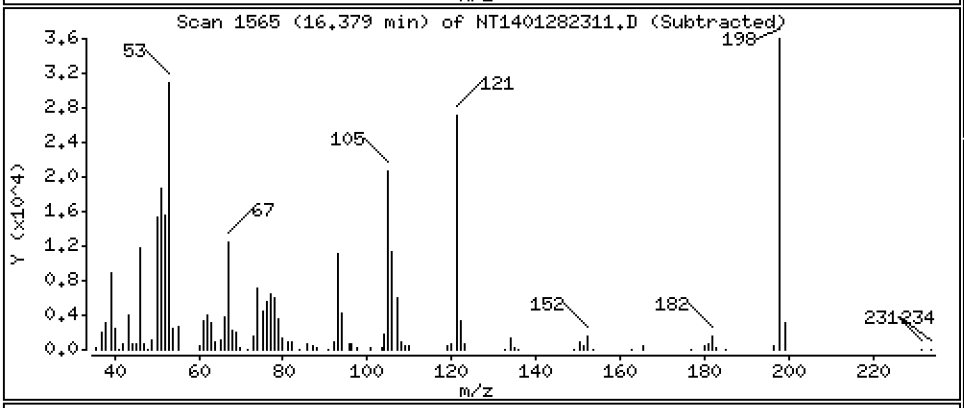
Column phase: ZB-5msi

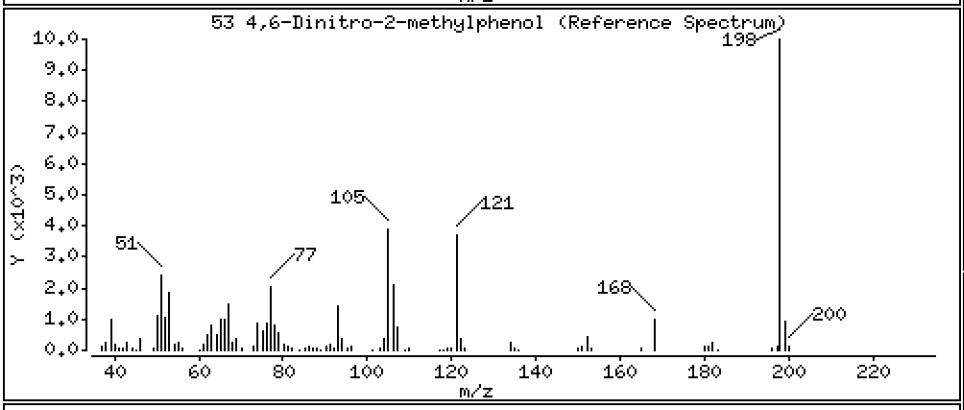
Column diameter: 0.25

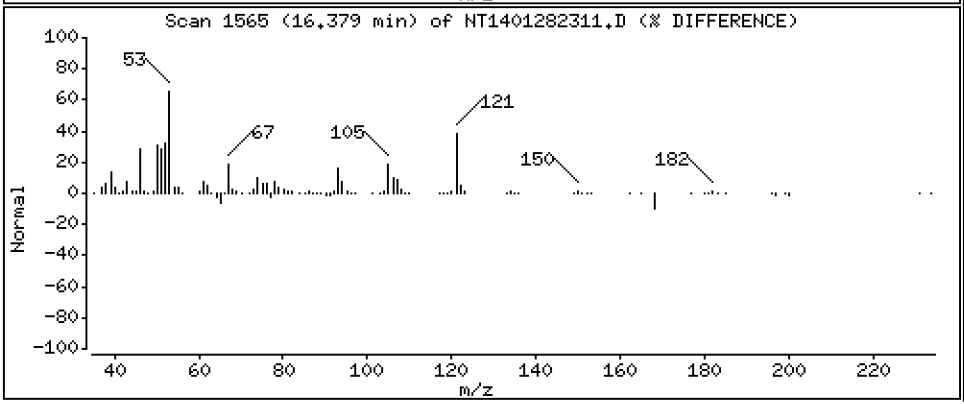
53 4,6-Dinitro-2-methylphenol

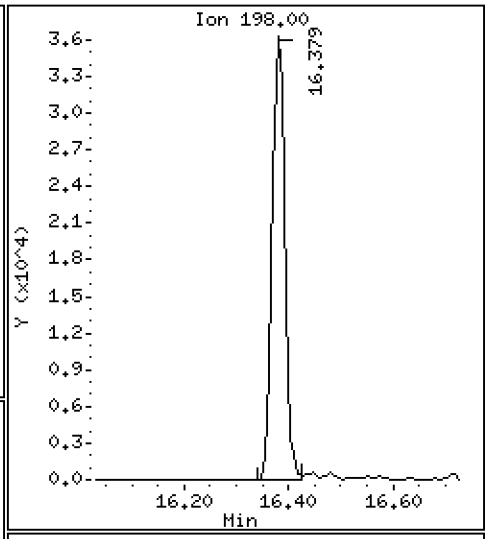
Concentration: 3.422 ug/mL

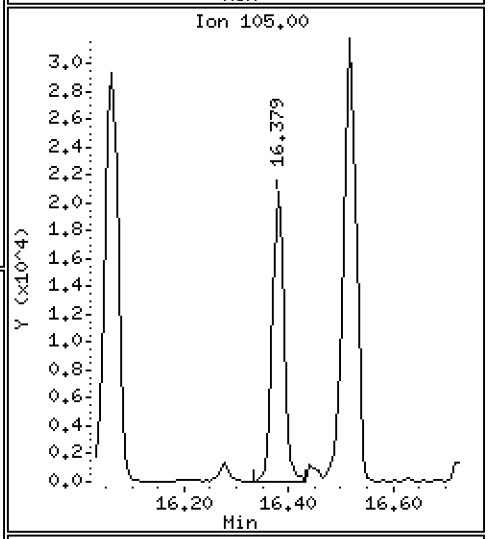


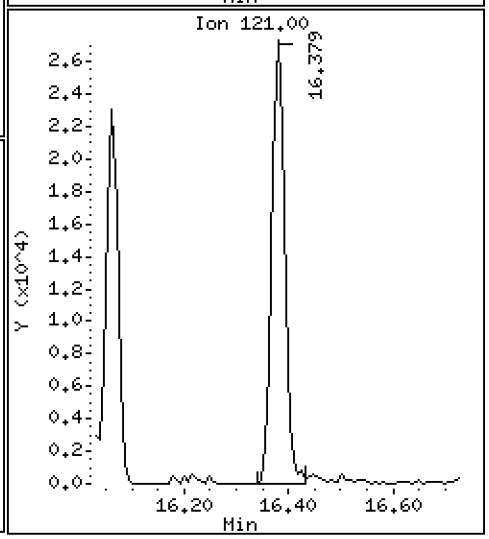












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

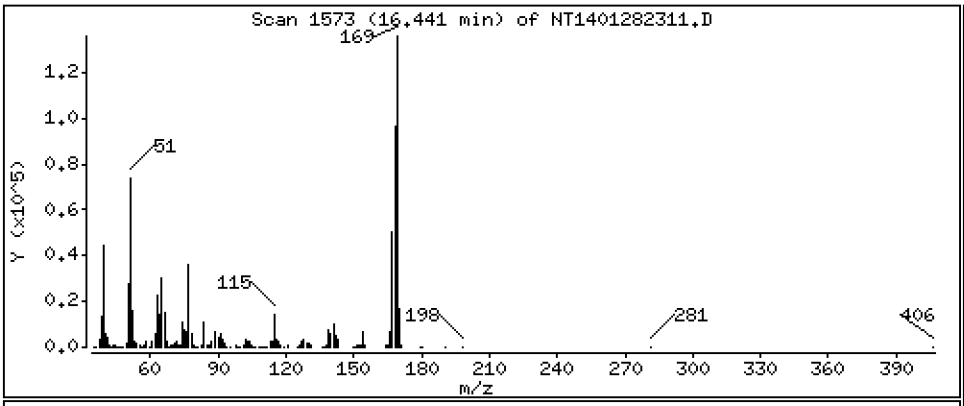
Operator: JGR

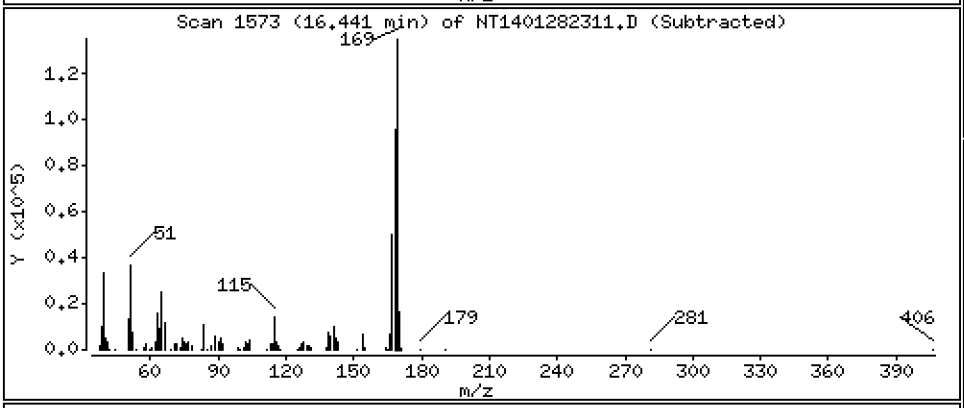
Column phase: ZB-5msi

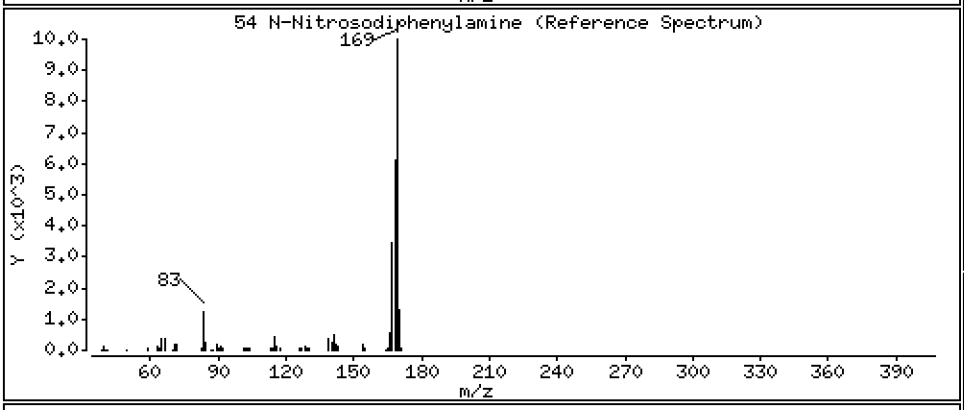
Column diameter: 0.25

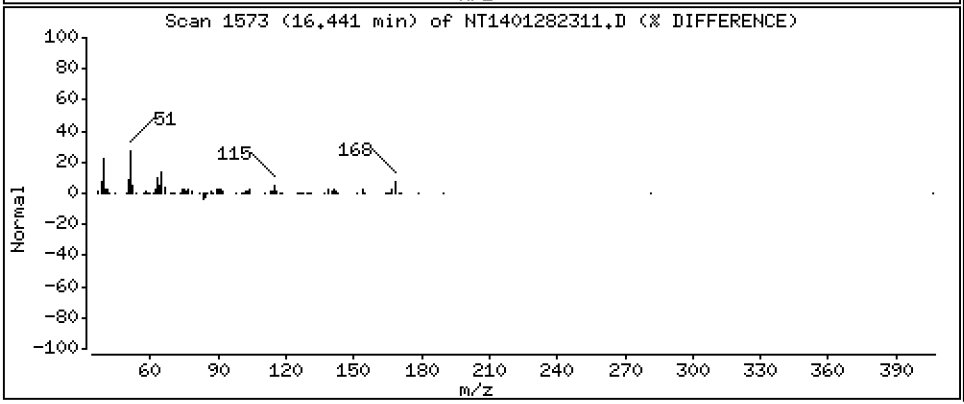
54 N-Nitrosodiphenylamine

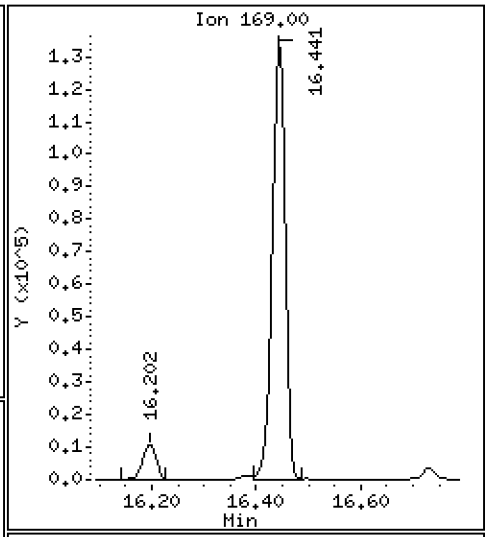
Concentration: 4.528 ug/mL

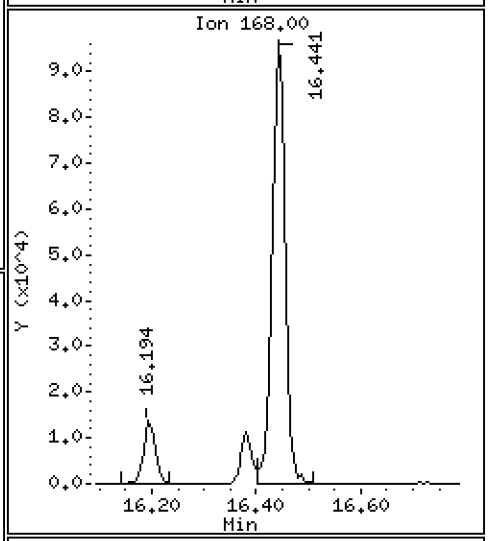


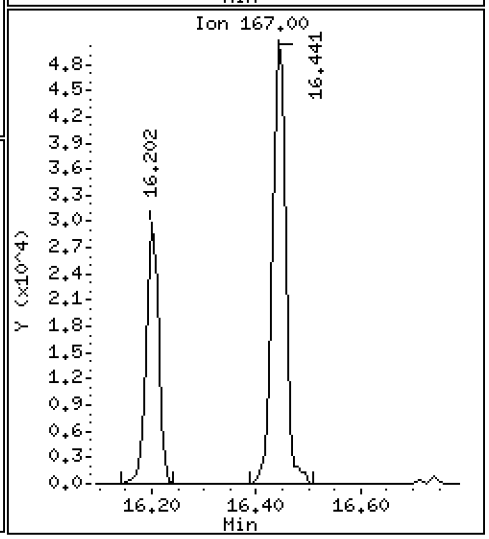












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

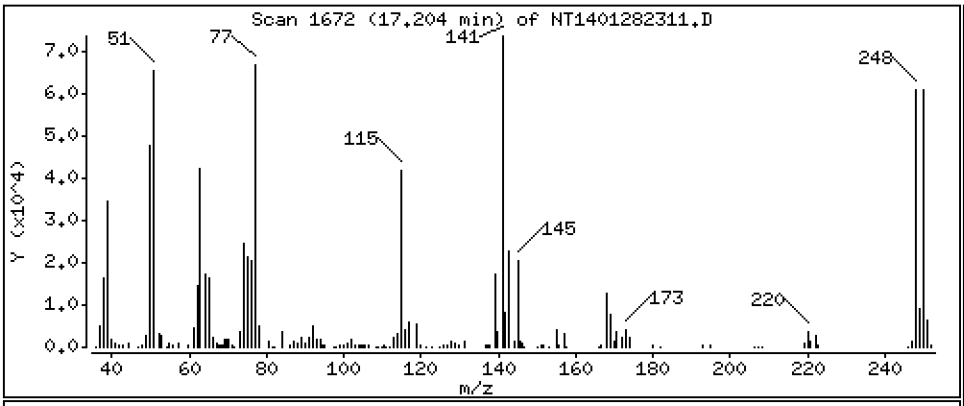
Operator: JGR

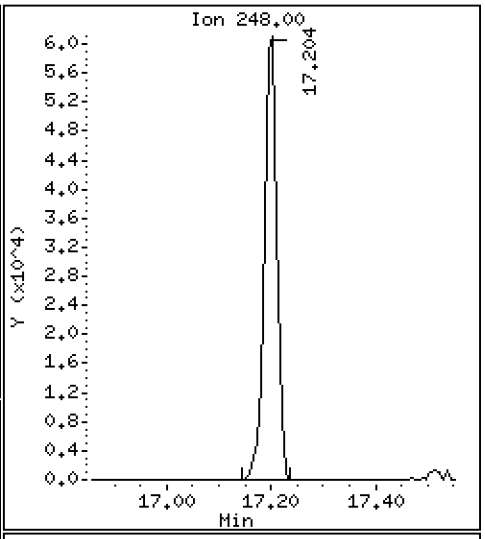
Column phase: ZB-5msi

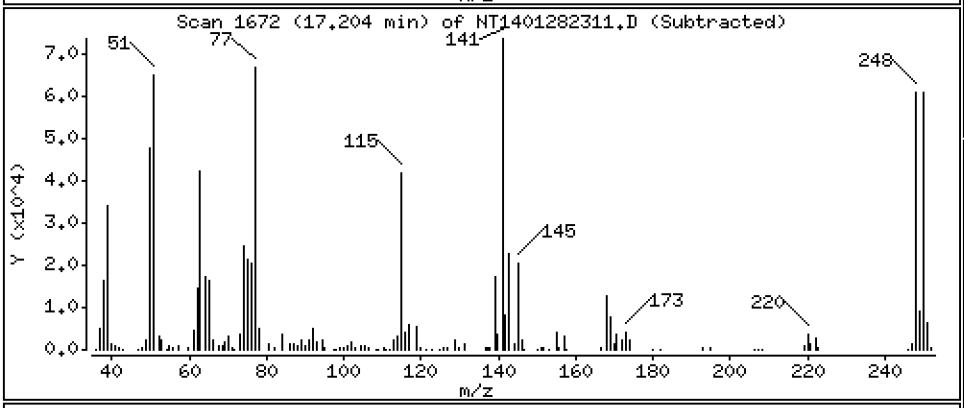
Column diameter: 0.25

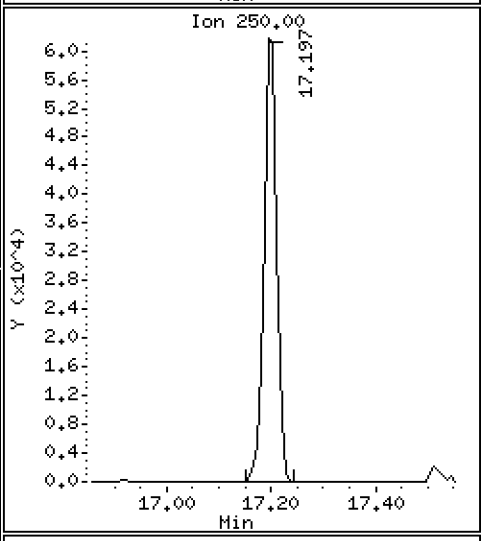
56 4-Bromophenyl-phenylether

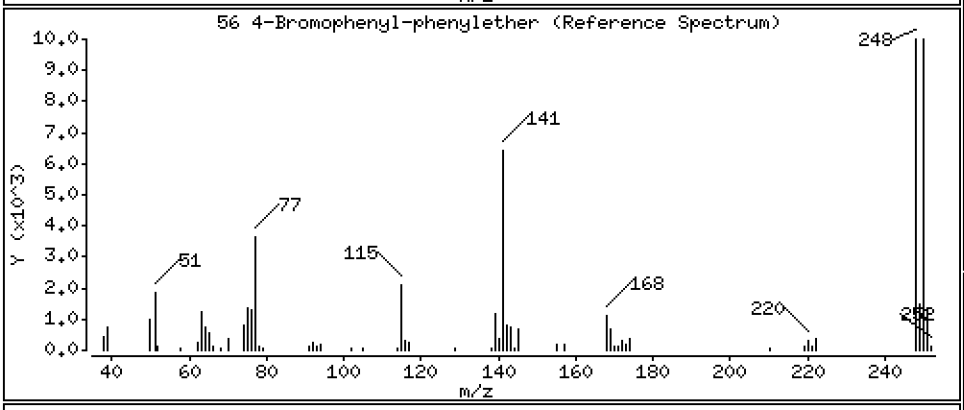
Concentration: 4.577 ug/mL

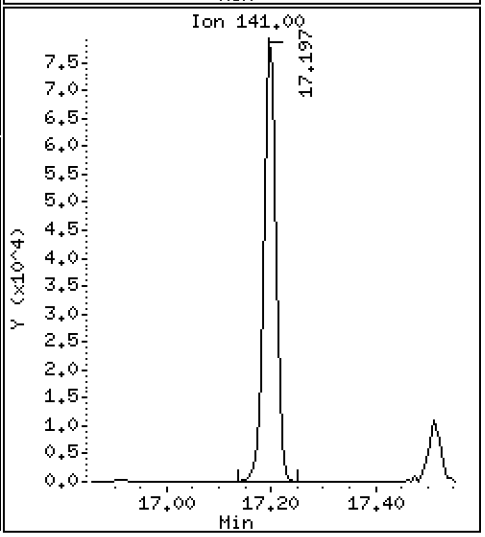


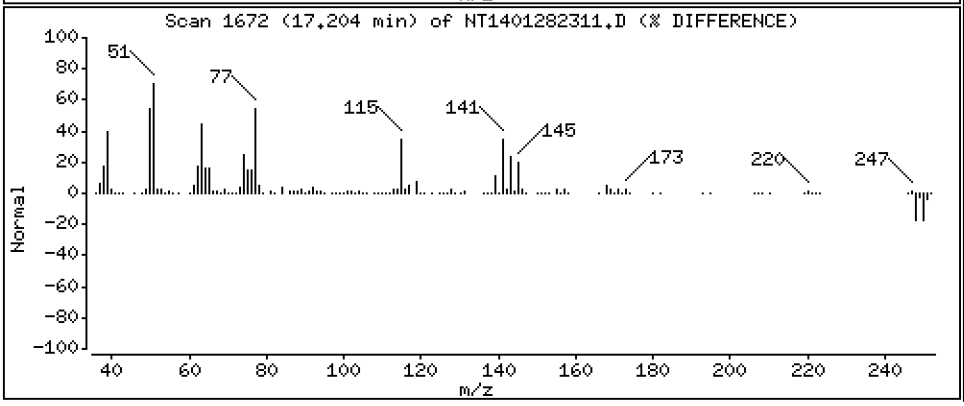












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

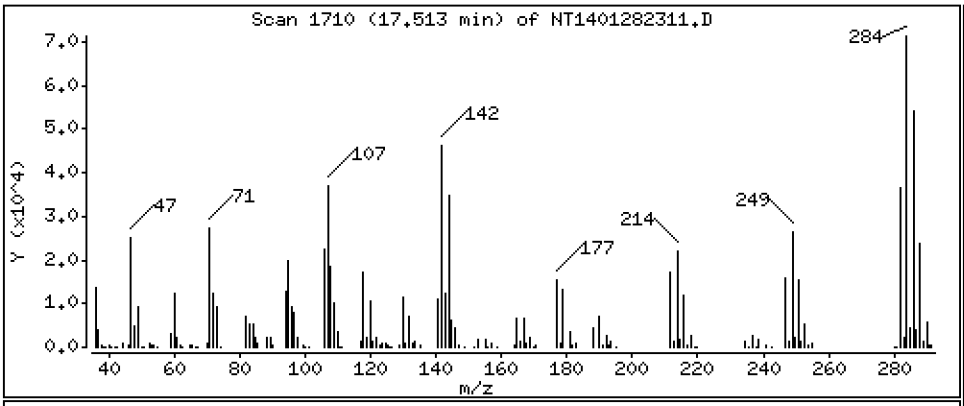
Operator: JGR

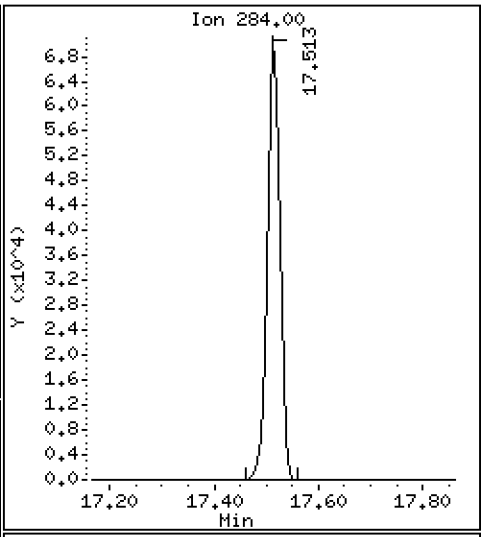
Column phase: ZB-5msi

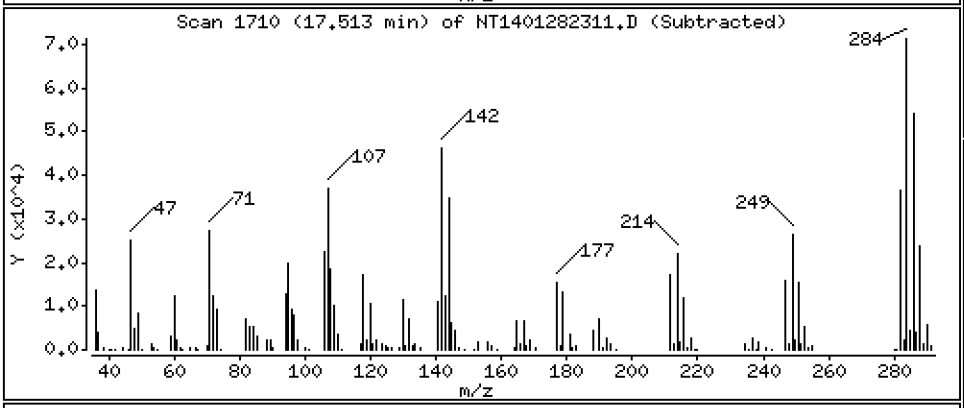
Column diameter: 0.25

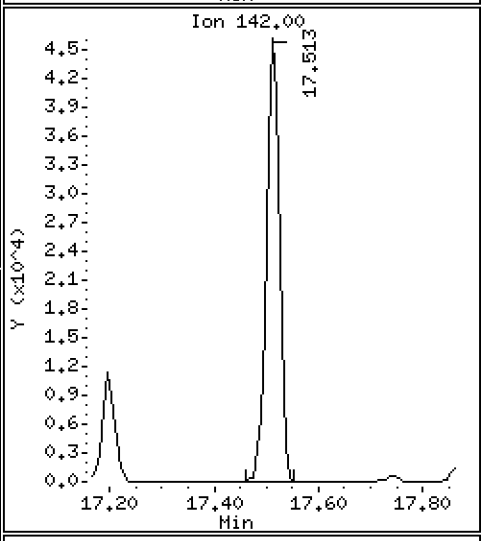
57 Hexachlorobenzene

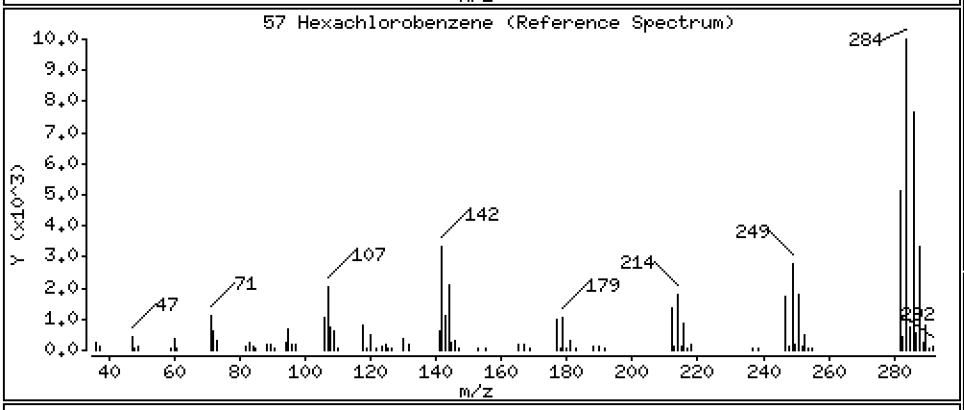
Concentration: 4.453 ug/mL

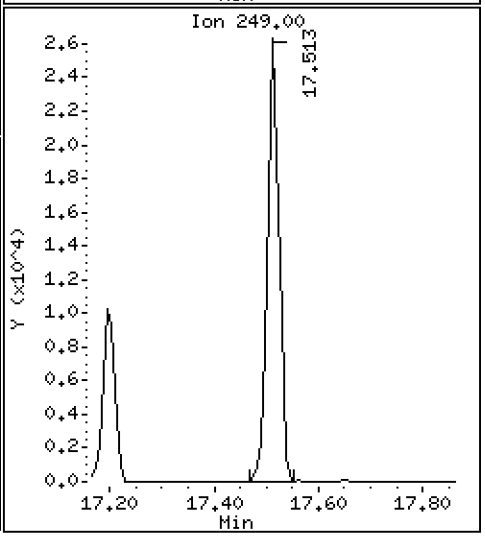


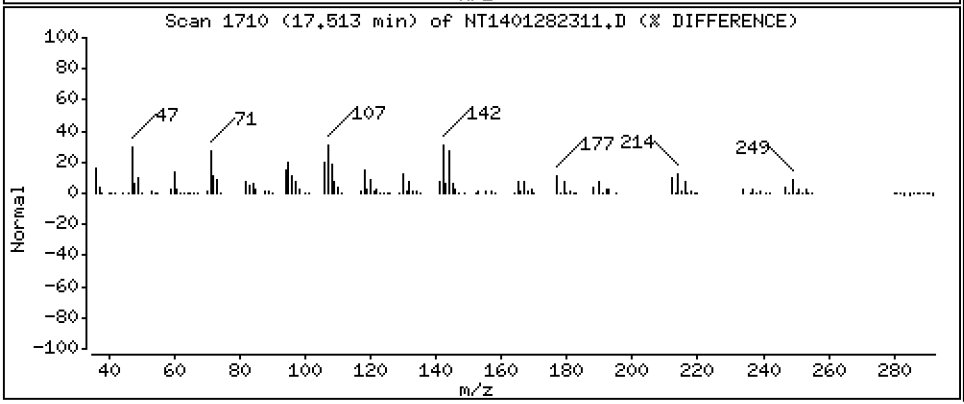












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

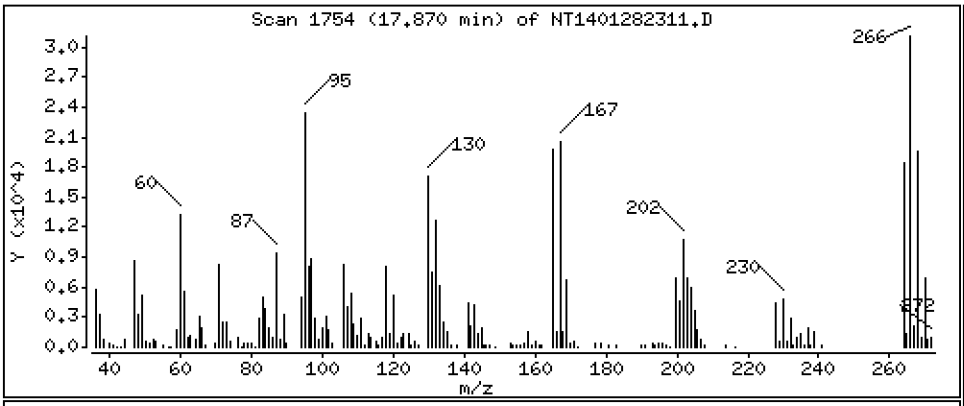
Operator: JGR

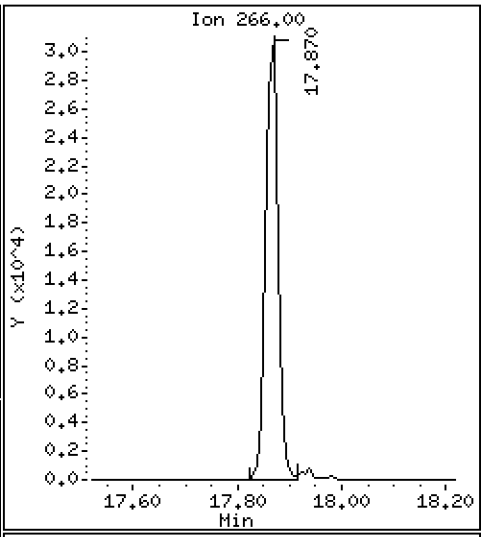
Column phase: ZB-5msi

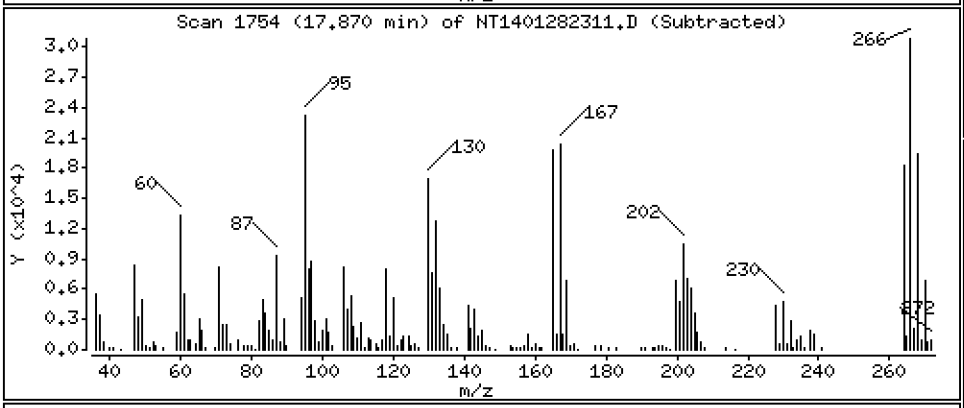
Column diameter: 0.25

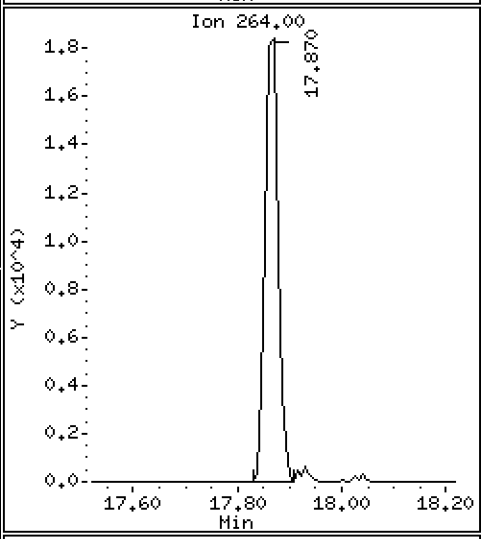
58 Pentachlorophenol

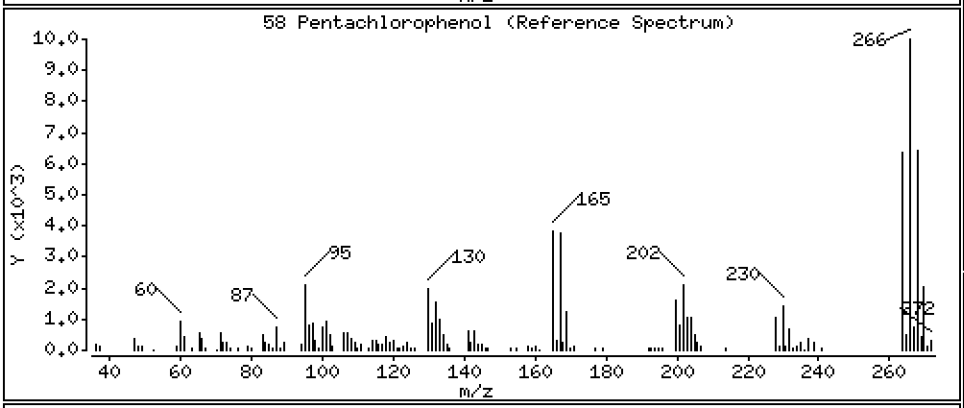
Concentration: 3.439 ug/mL

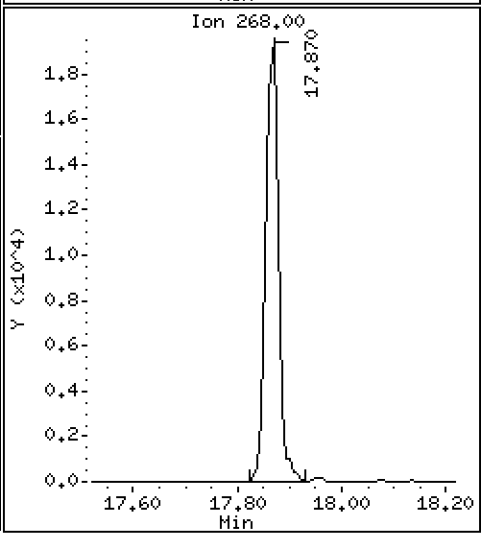


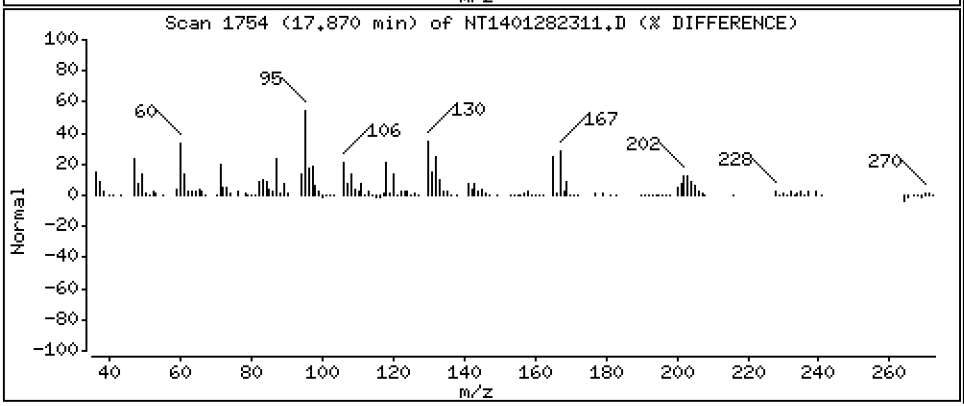












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

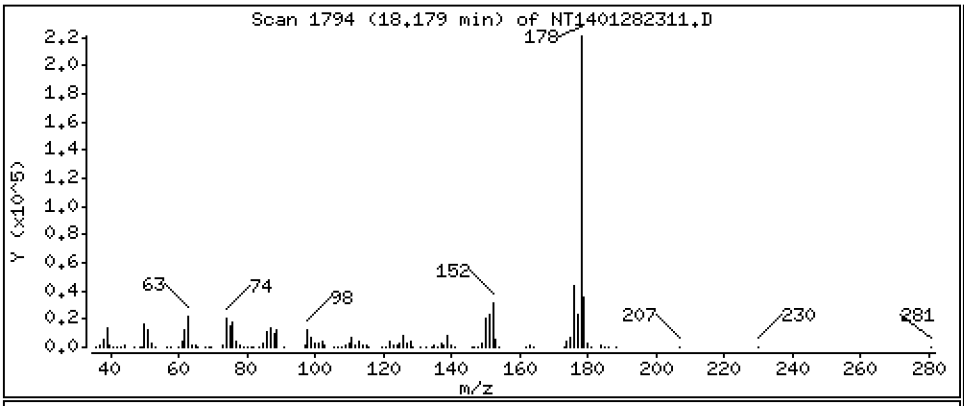
Operator: JGR

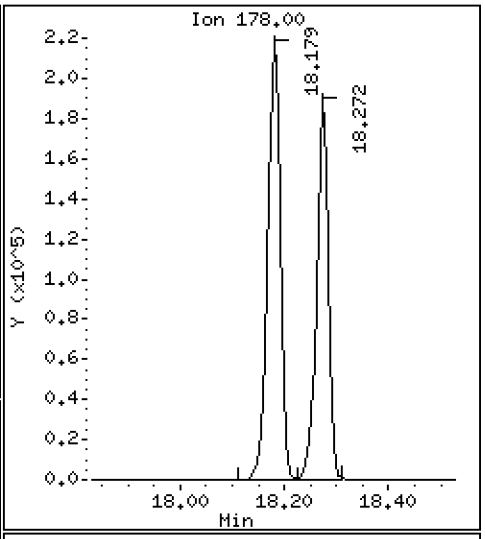
Column phase: ZB-5msi

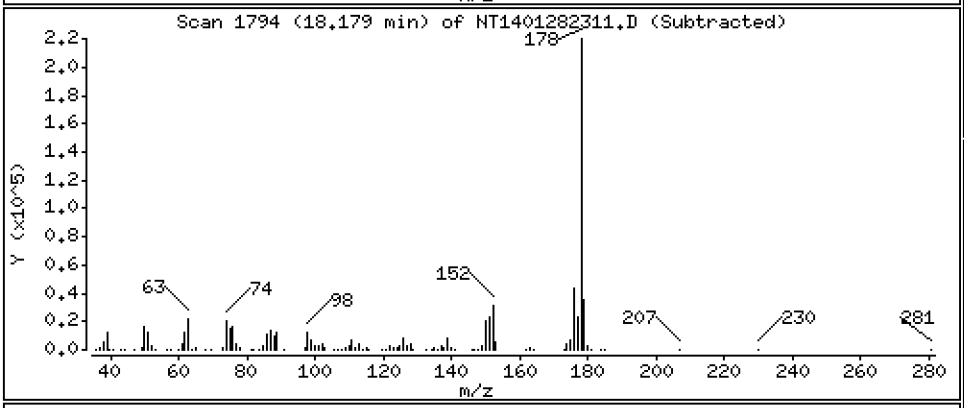
Column diameter: 0.25

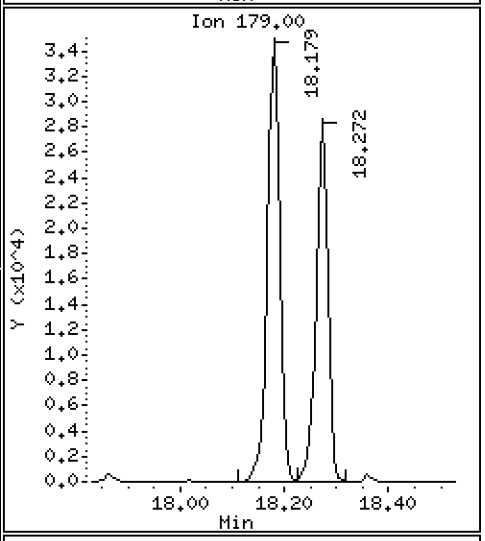
60 Phenanthrene

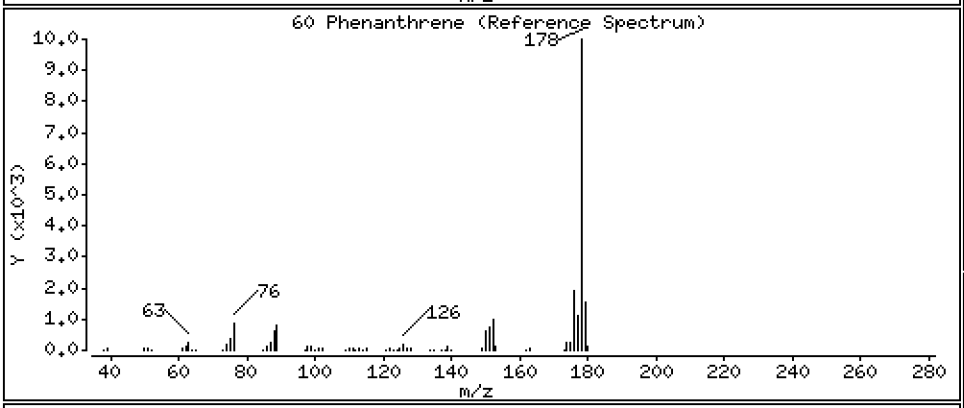
Concentration: 4.554 ug/mL

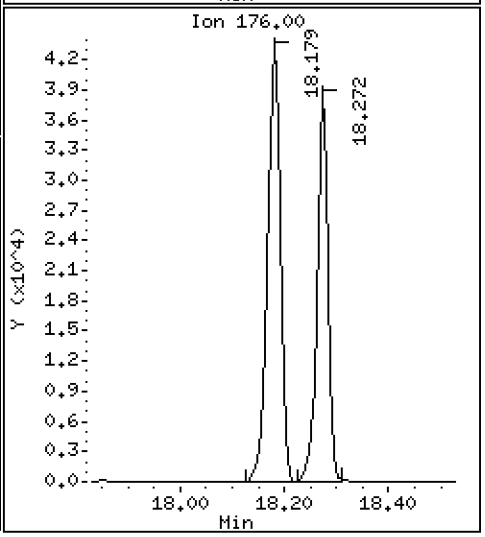


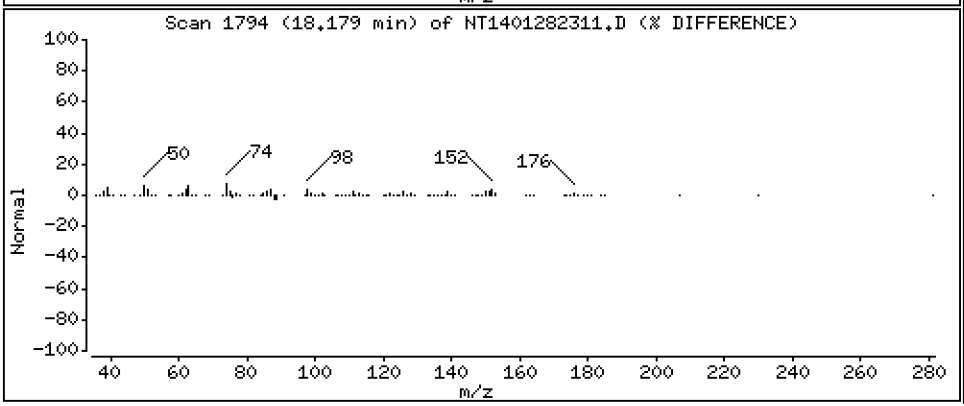












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

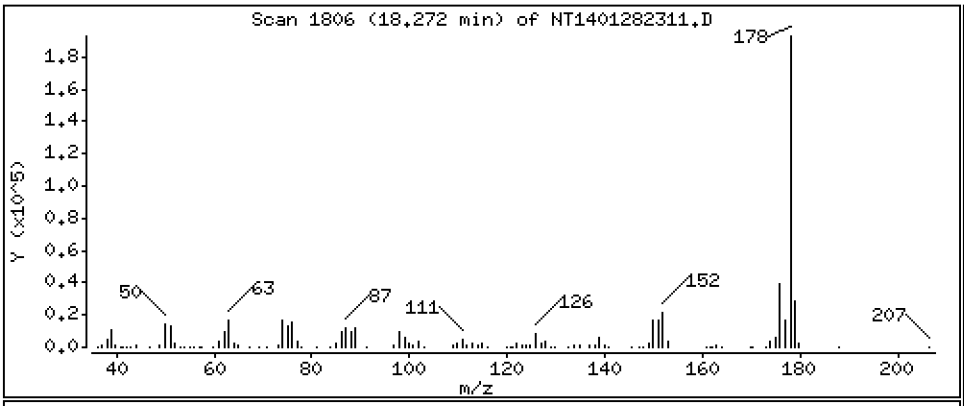
Operator: JGR

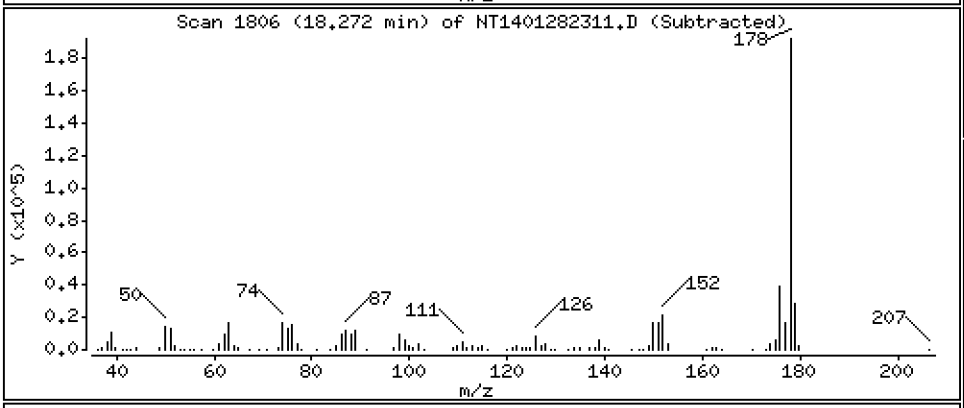
Column phase: ZB-5msi

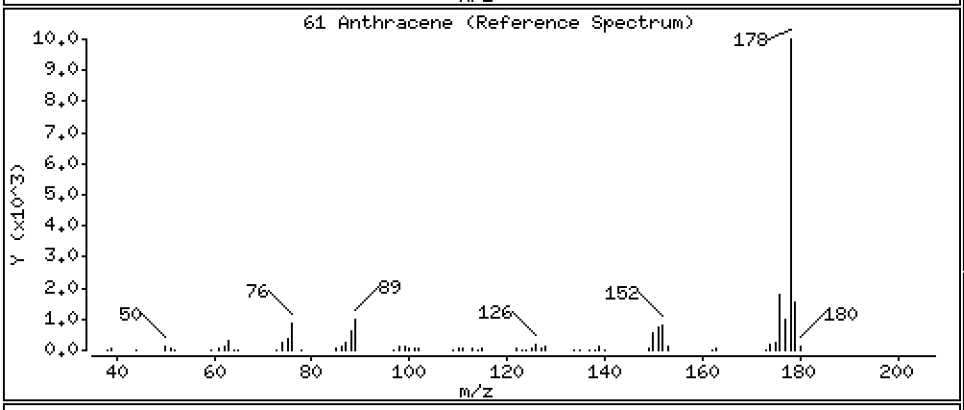
Column diameter: 0.25

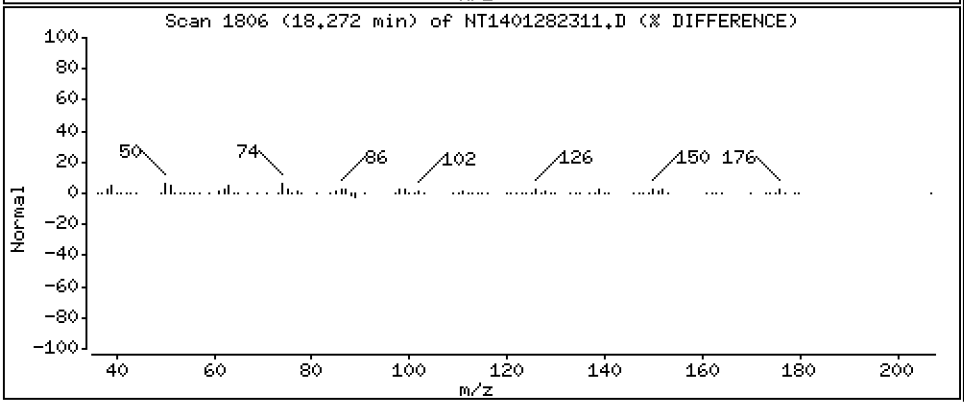
61 Anthracene

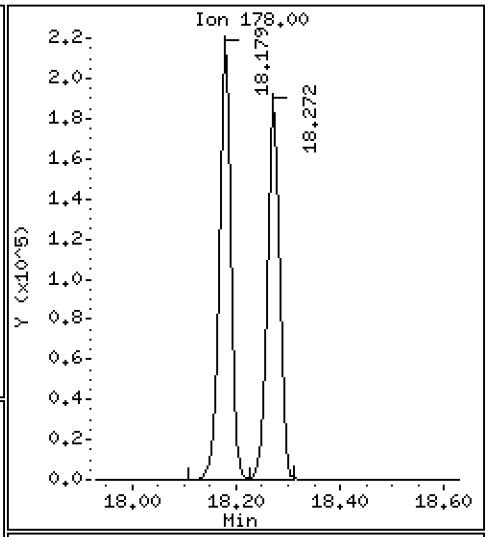
Concentration: 4.062 ug/mL

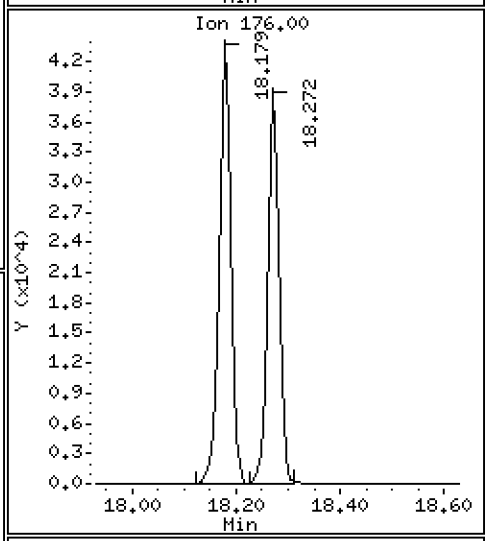


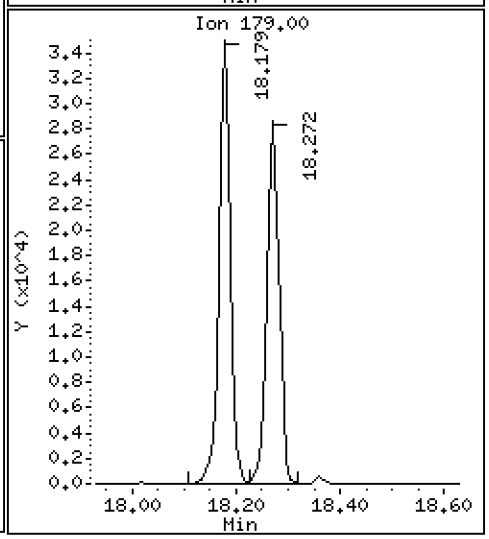












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

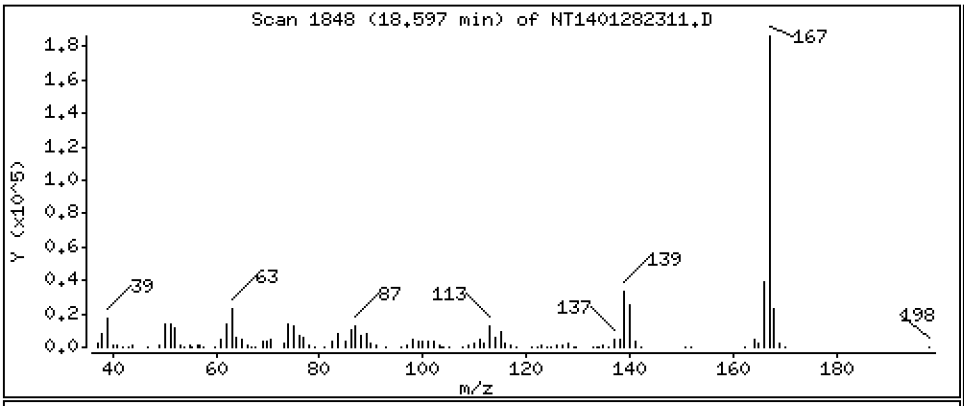
Operator: JGR

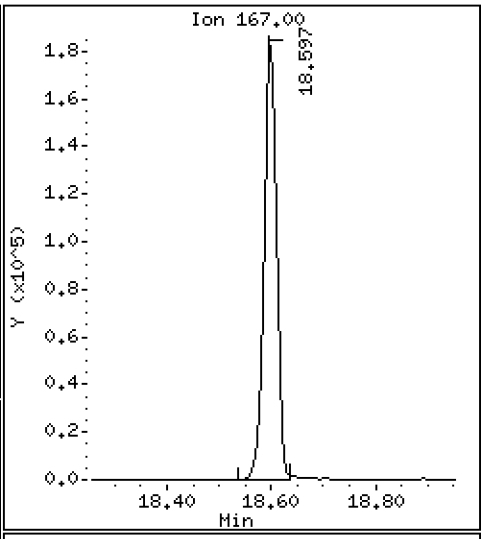
Column phase: ZB-5msi

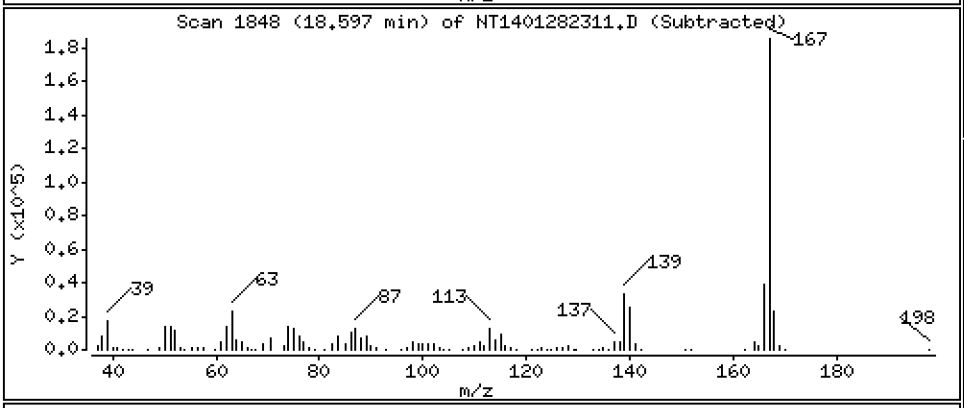
Column diameter: 0.25

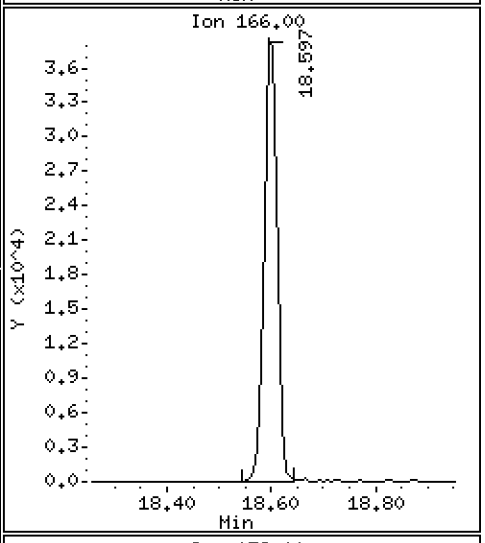
62 Carbazole

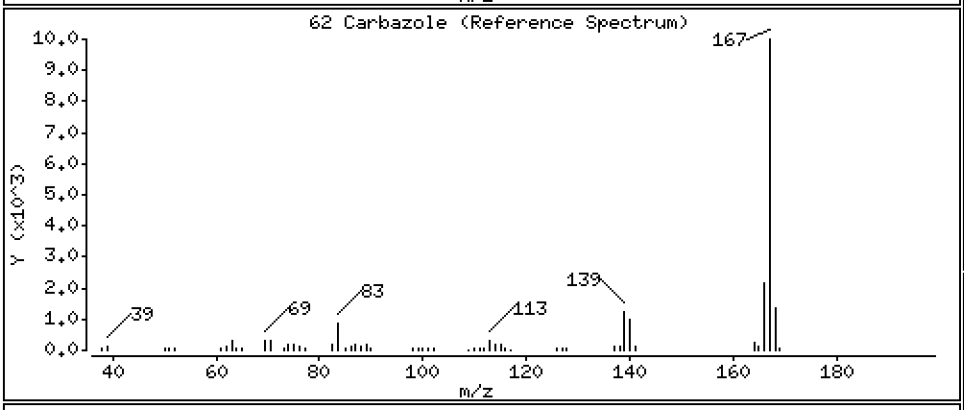
Concentration: 4.384 ug/mL

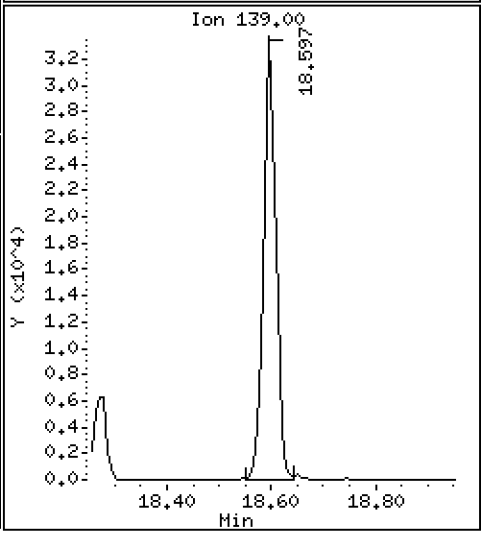


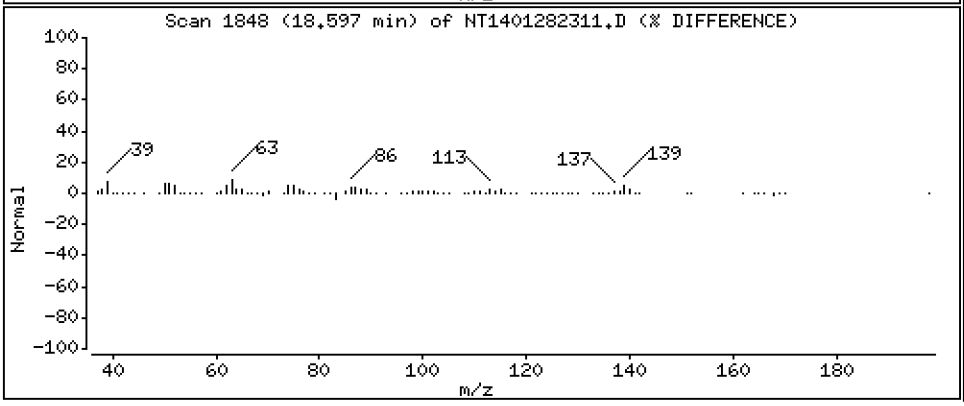












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

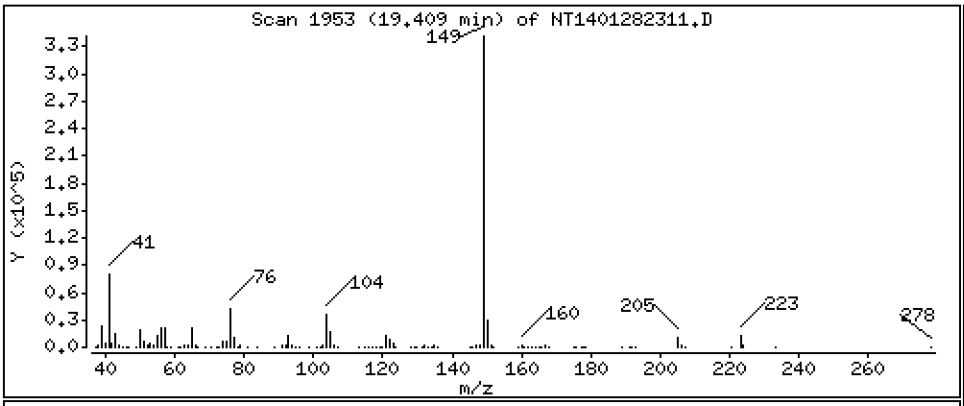
Operator: JGR

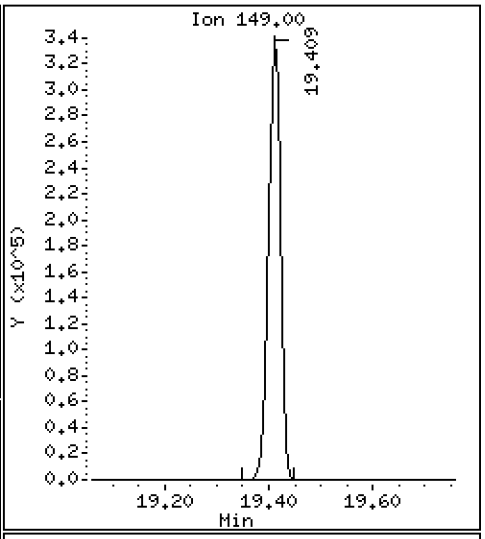
Column phase: ZB-5msi

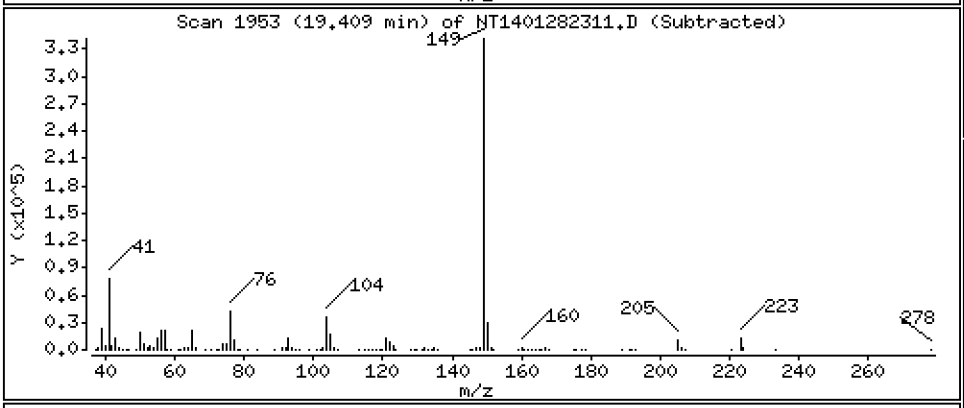
Column diameter: 0.25

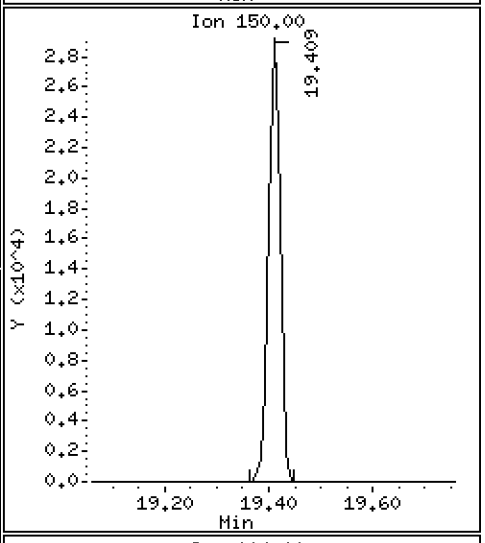
63 Di-n-butylphthalate

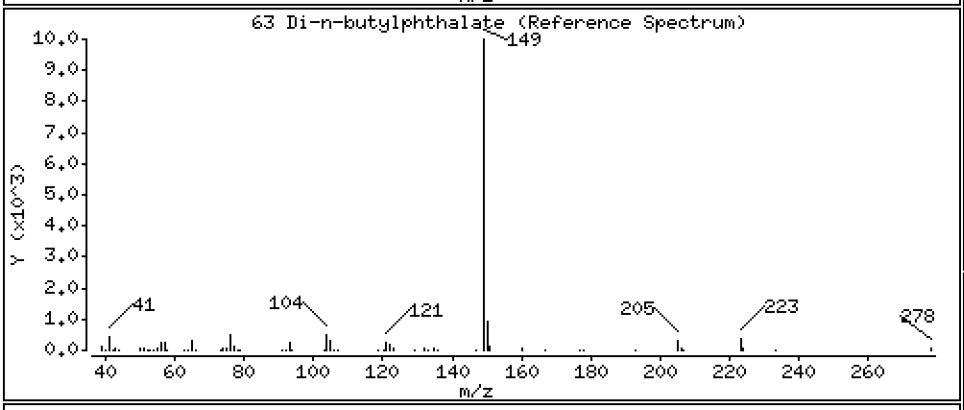
Concentration: 4.948 ug/mL

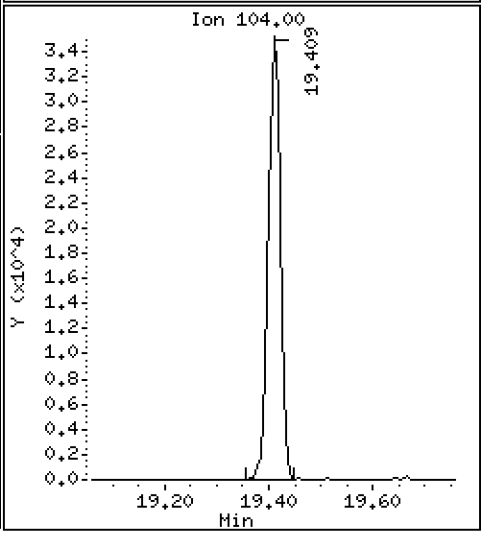


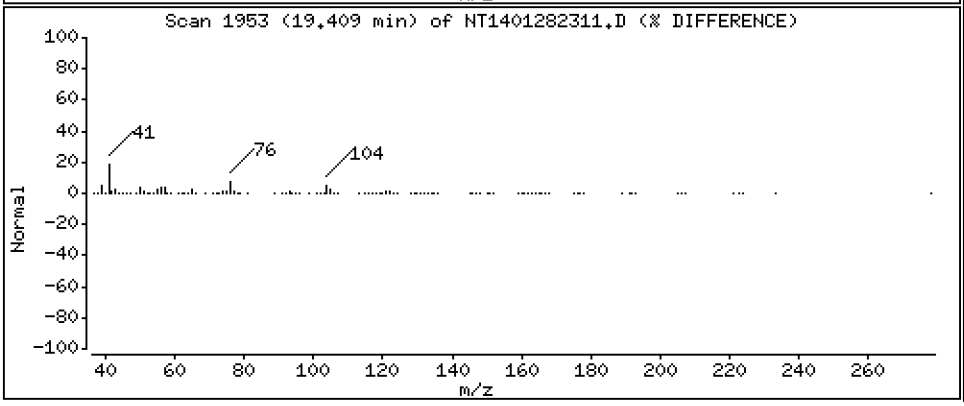












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

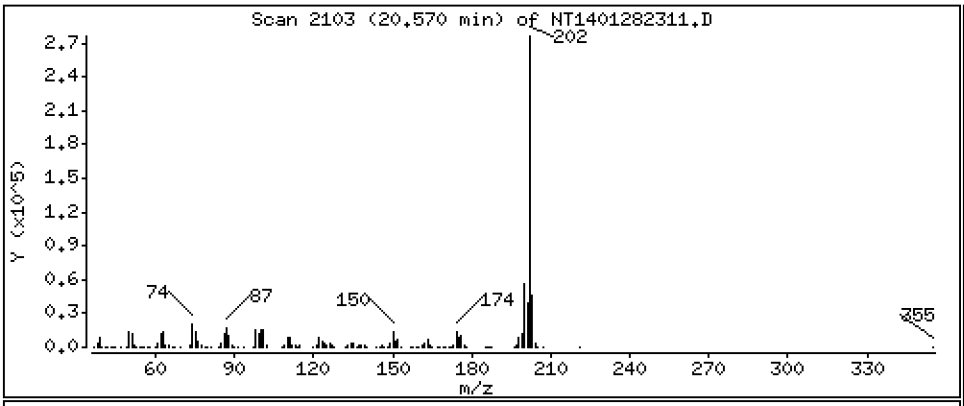
Operator: JGR

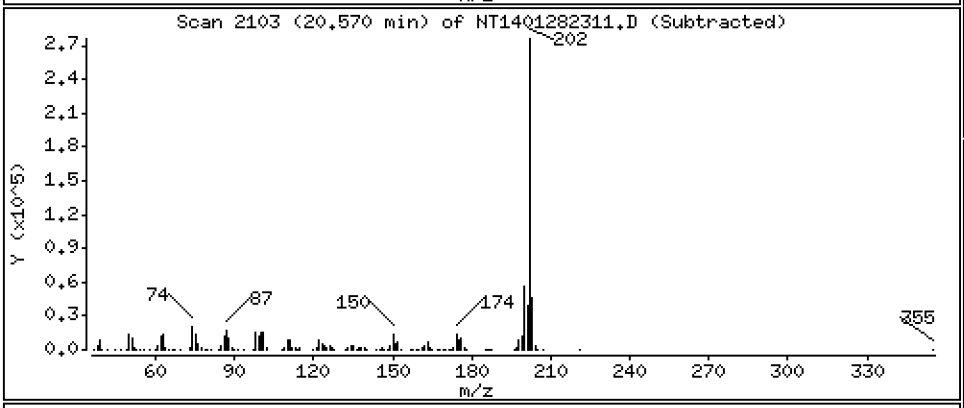
Column phase: ZB-5msi

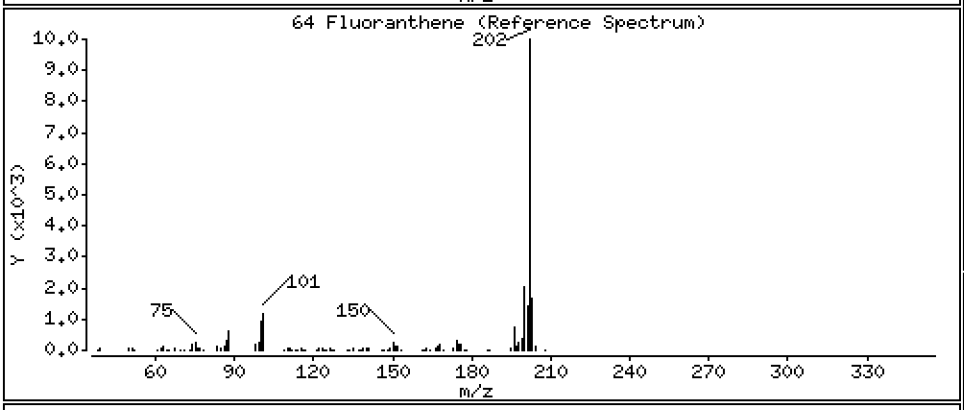
Column diameter: 0.25

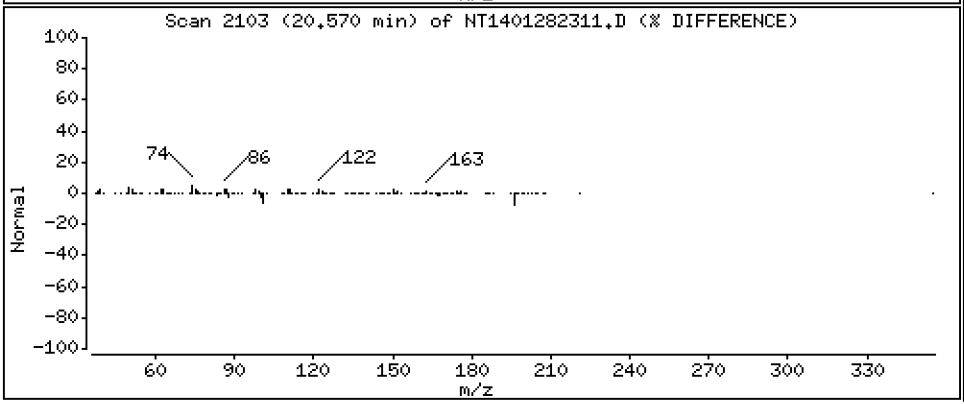
64 Fluoranthene

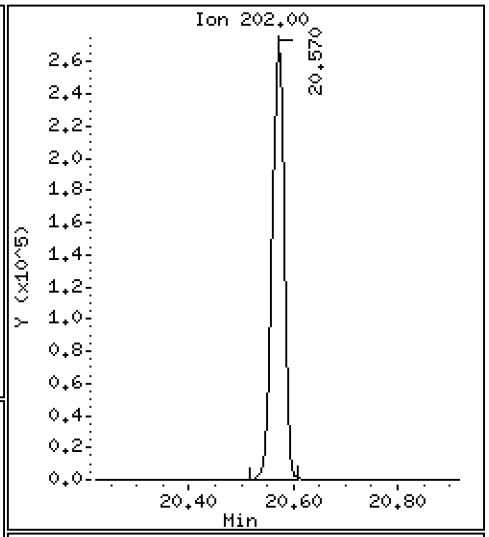
Concentration: 4.755 ug/mL

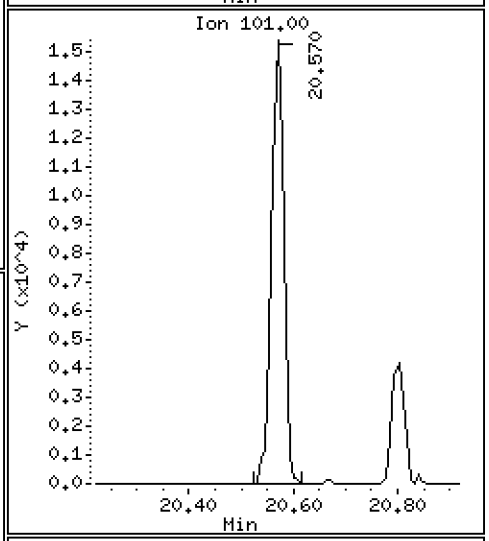


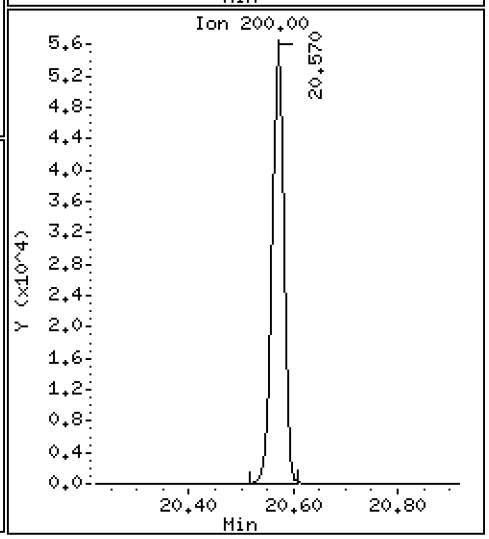












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

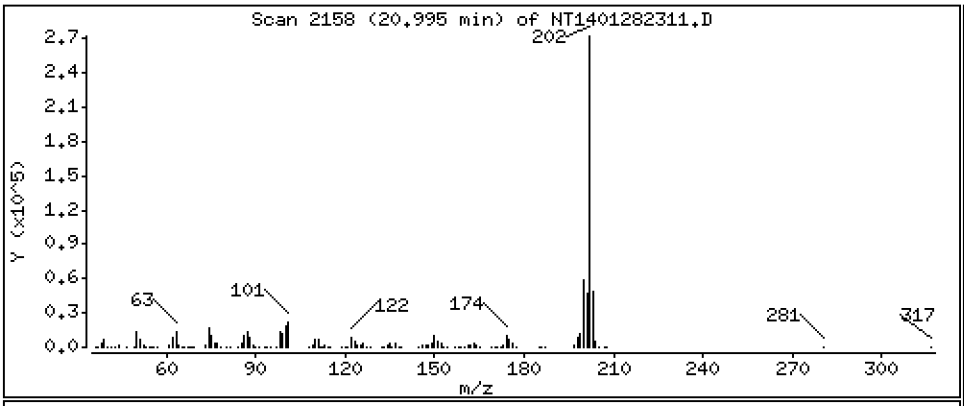
Operator: JGR

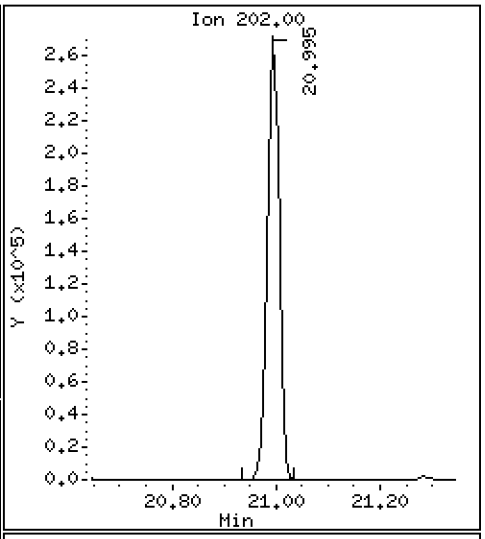
Column phase: ZB-5msi

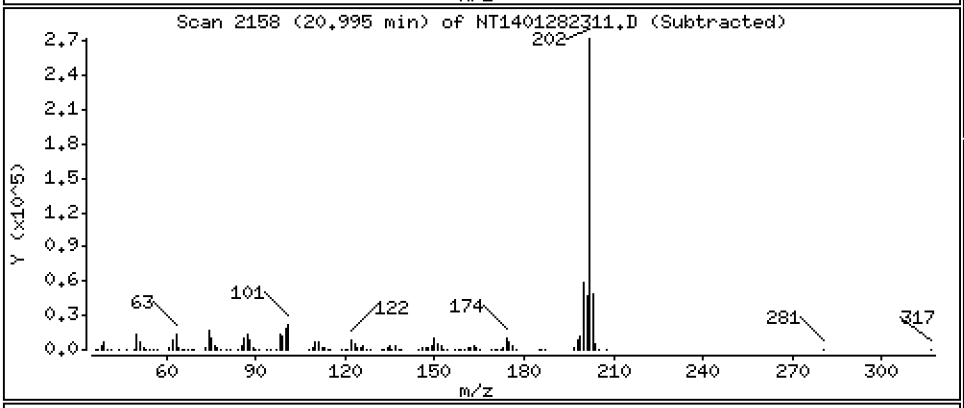
Column diameter: 0.25

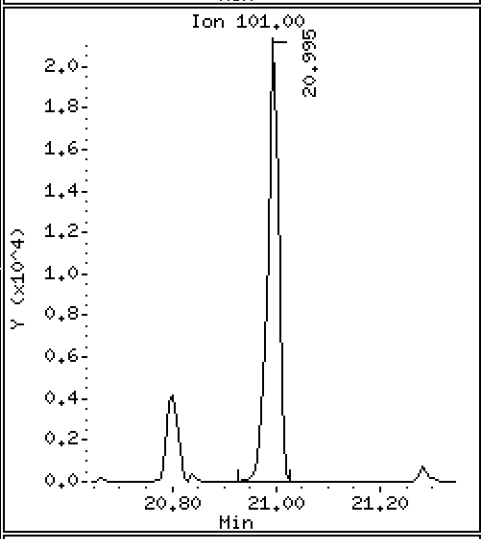
65 Pyrene

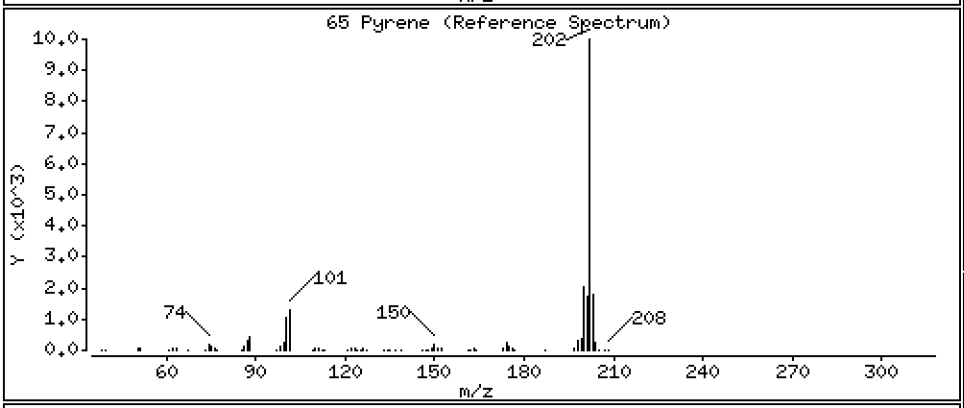
Concentration: 4.702 ug/mL

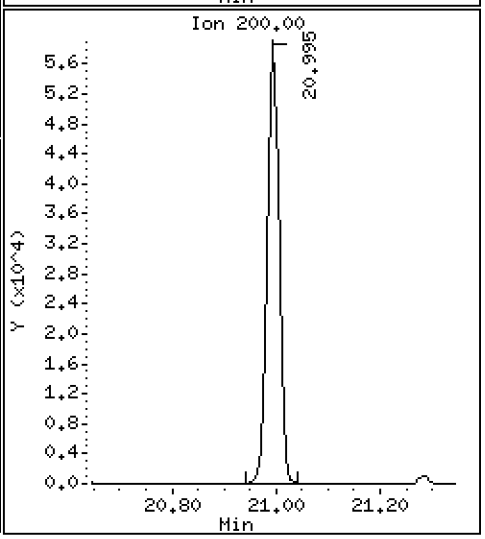


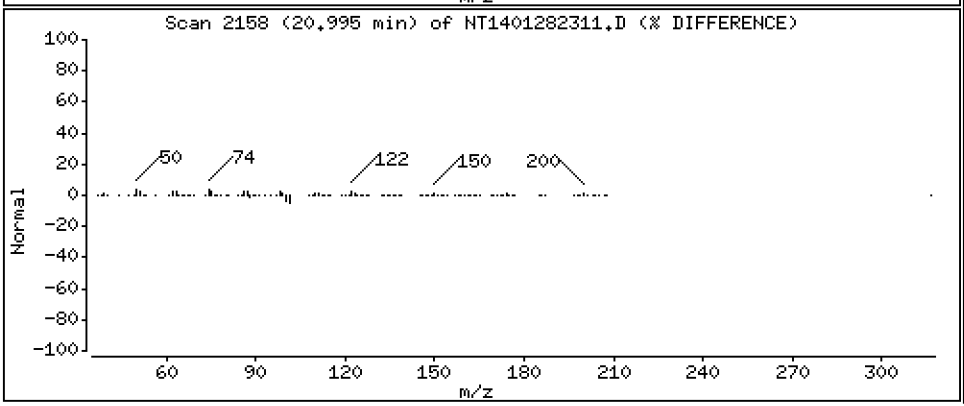












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

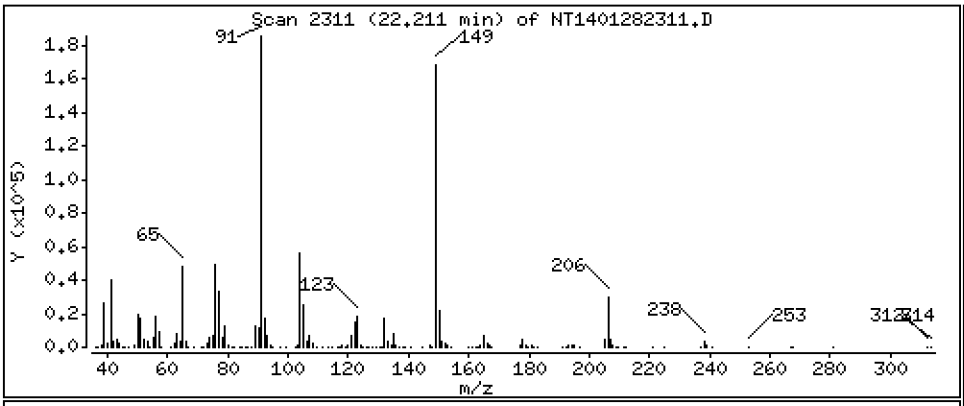
Operator: JGR

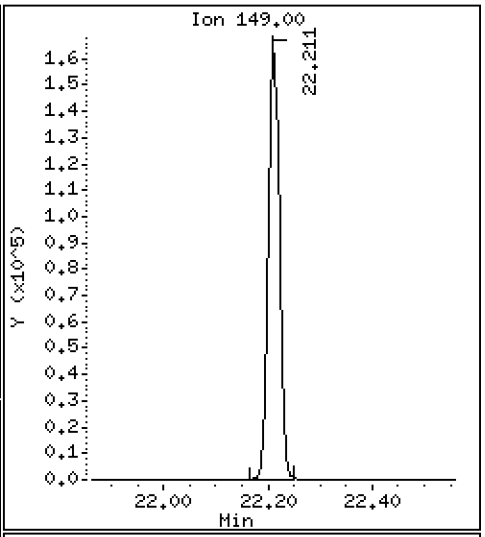
Column phase: ZB-5msi

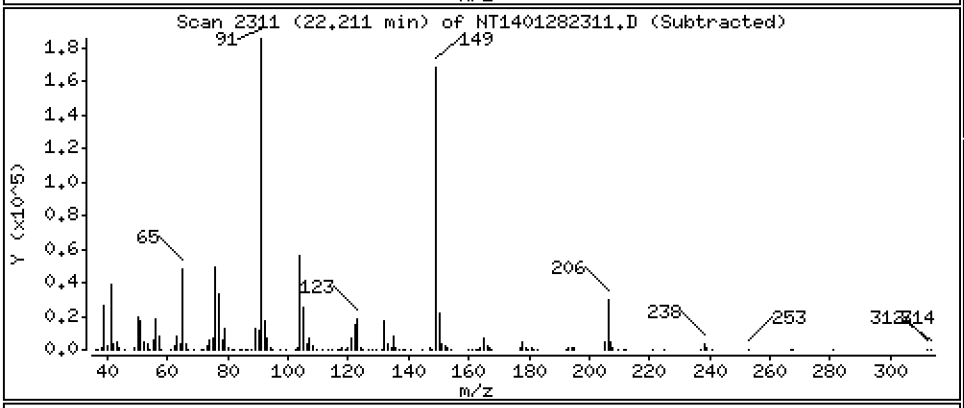
Column diameter: 0.25

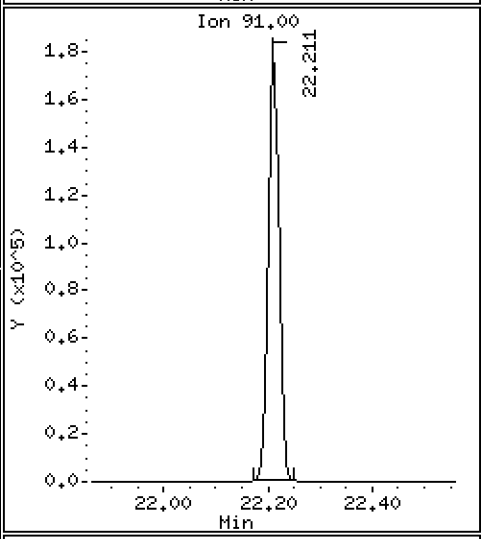
67 Butylbenzylphthalate

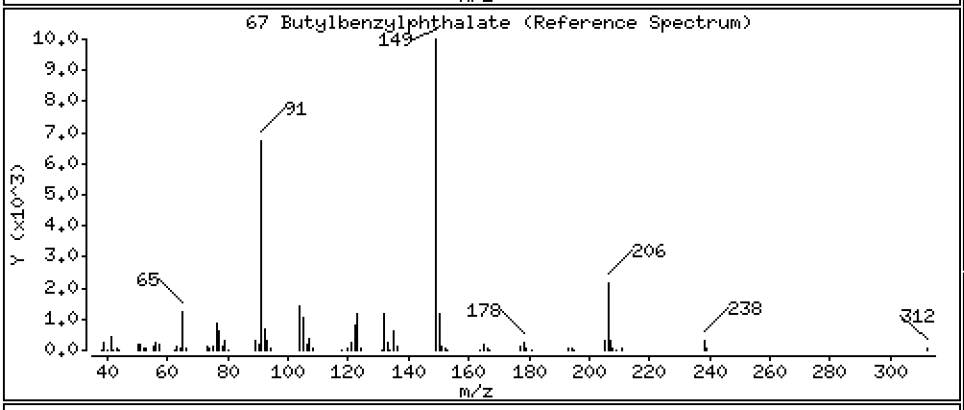
Concentration: 4.844 ug/mL

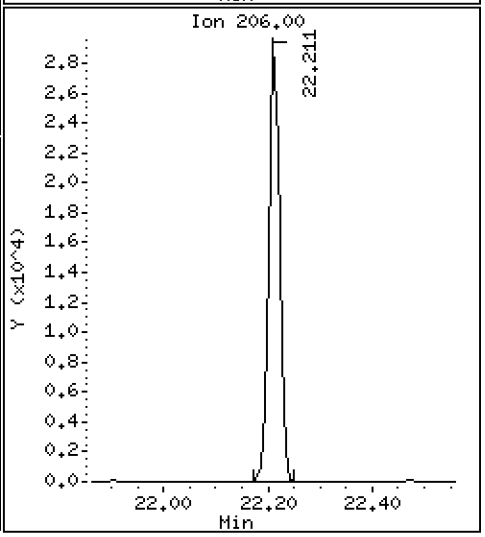


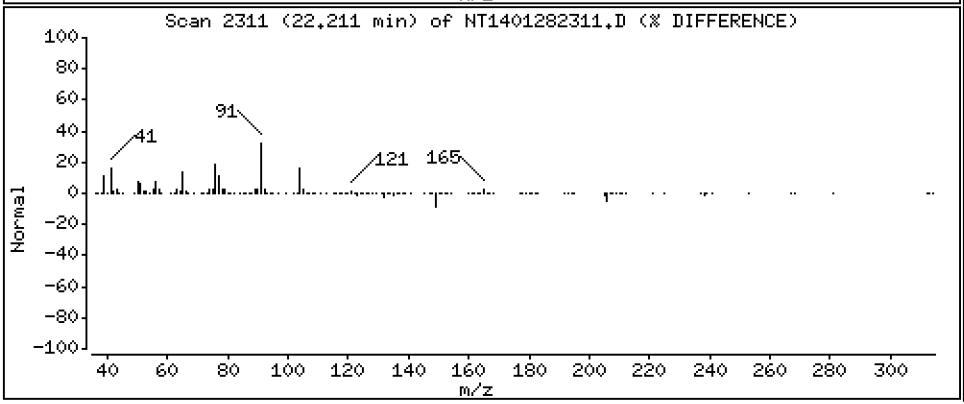












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

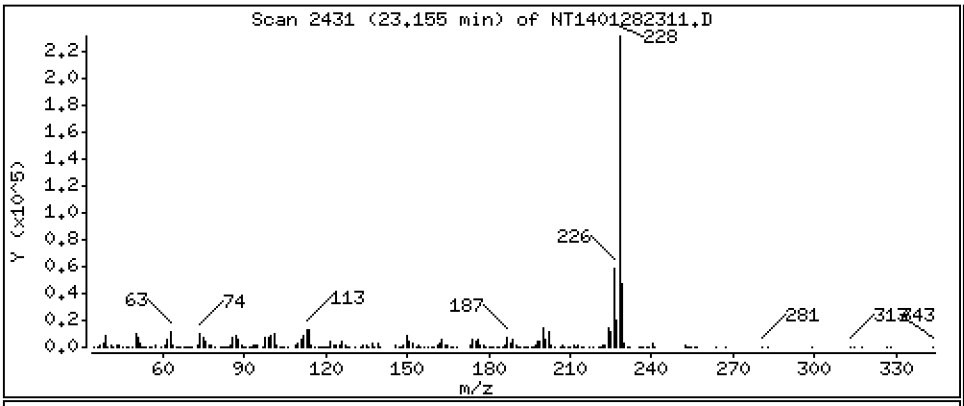
Operator: JGR

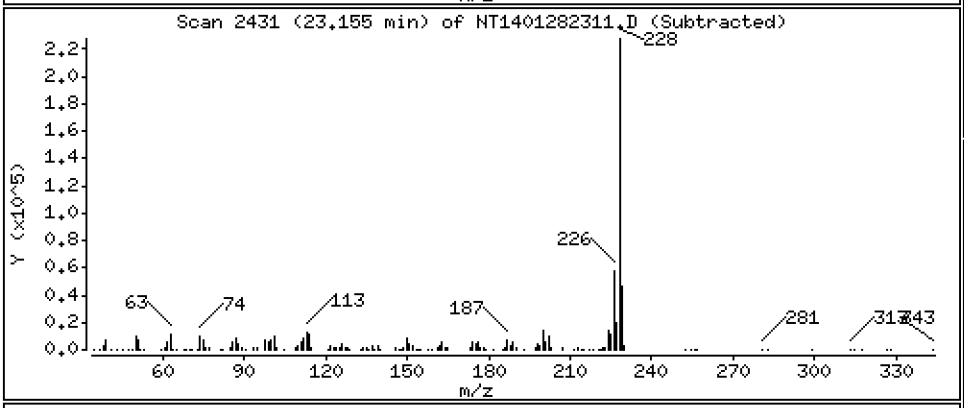
Column phase: ZB-5msi

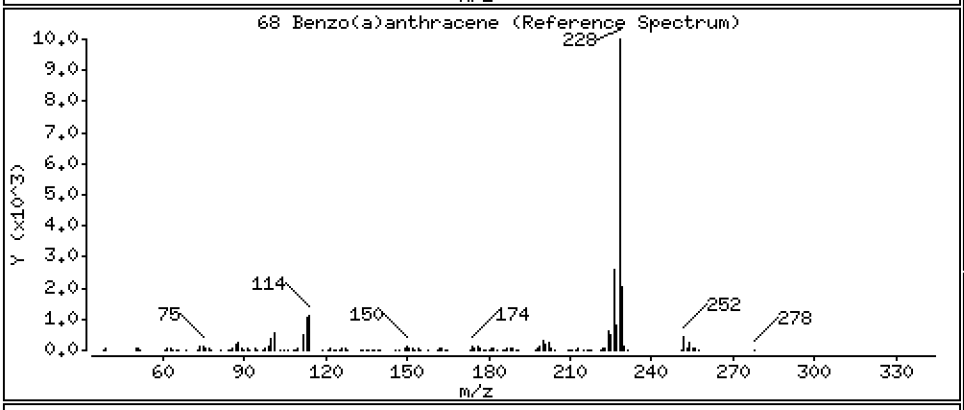
Column diameter: 0.25

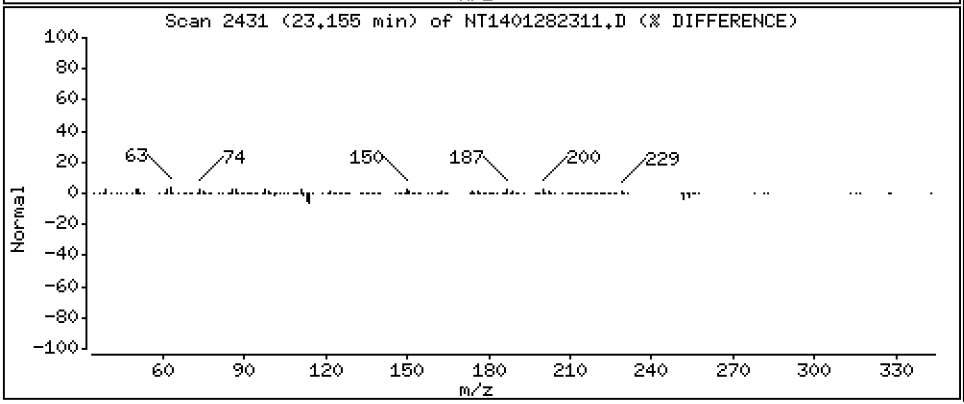
68 Benzo(a)anthracene

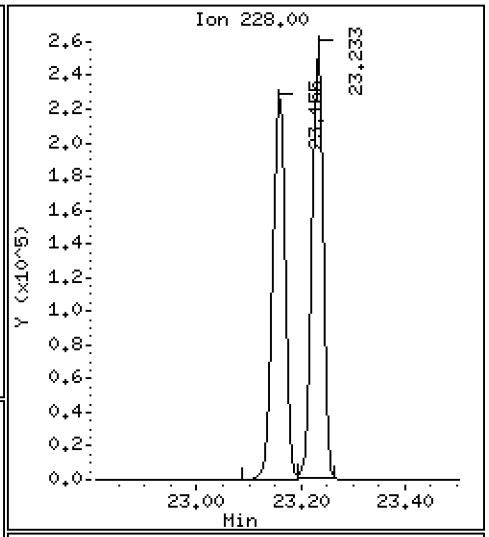
Concentration: 4.571 ug/mL

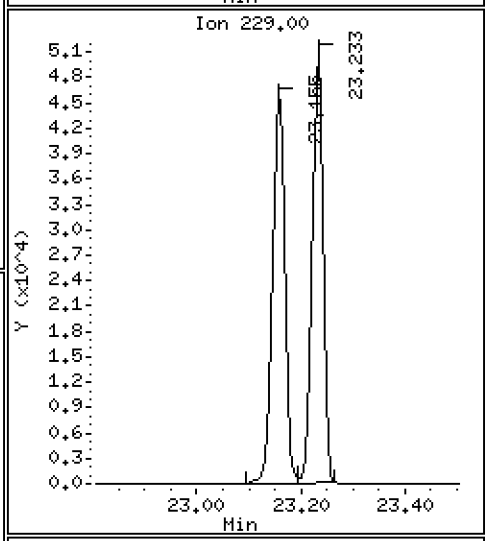


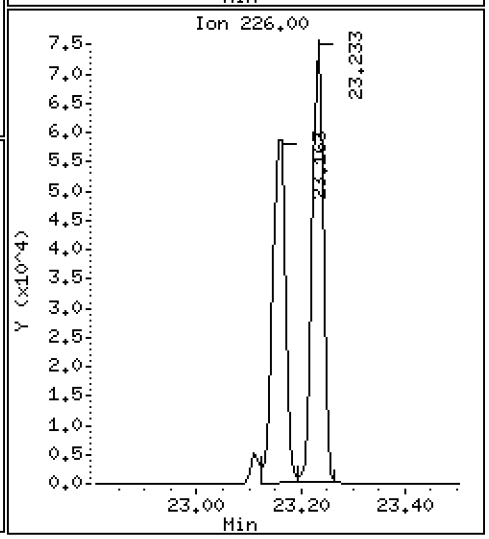












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

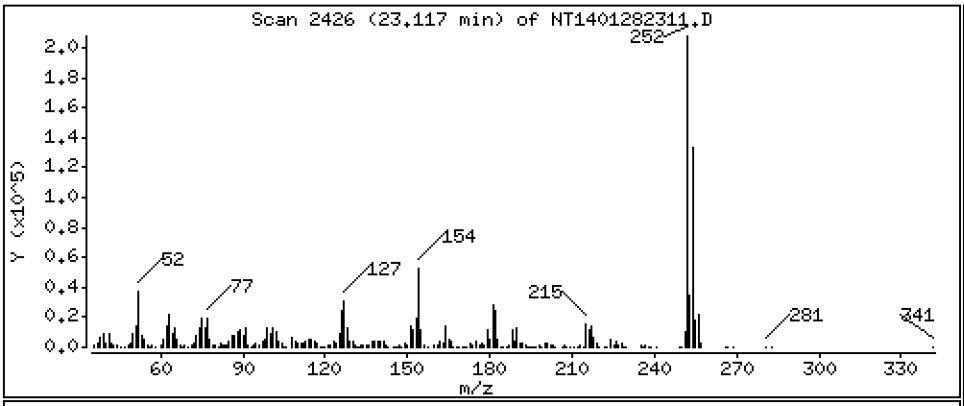
Operator: JGR

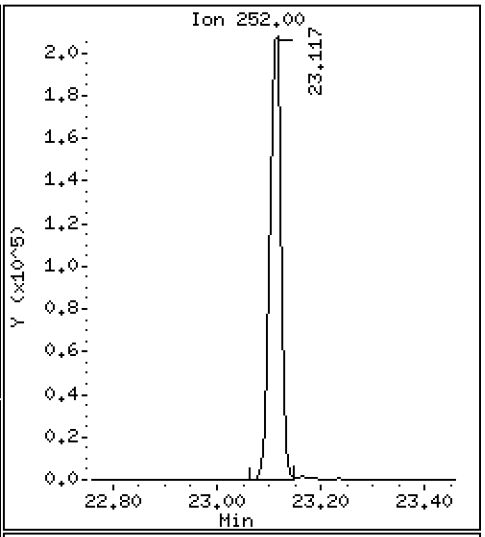
Column phase: ZB-5msi

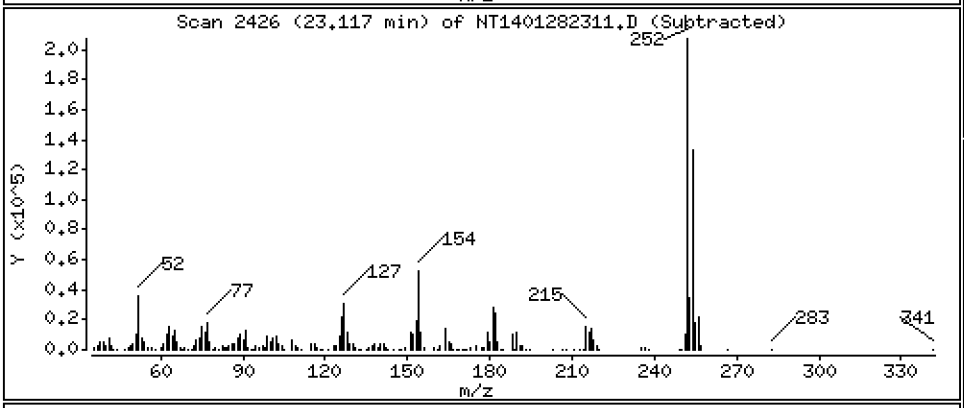
Column diameter: 0.25

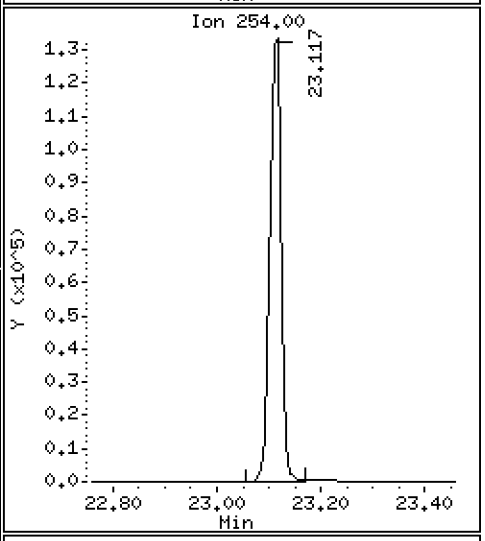
70 3,3'-Dichlorobenzidine

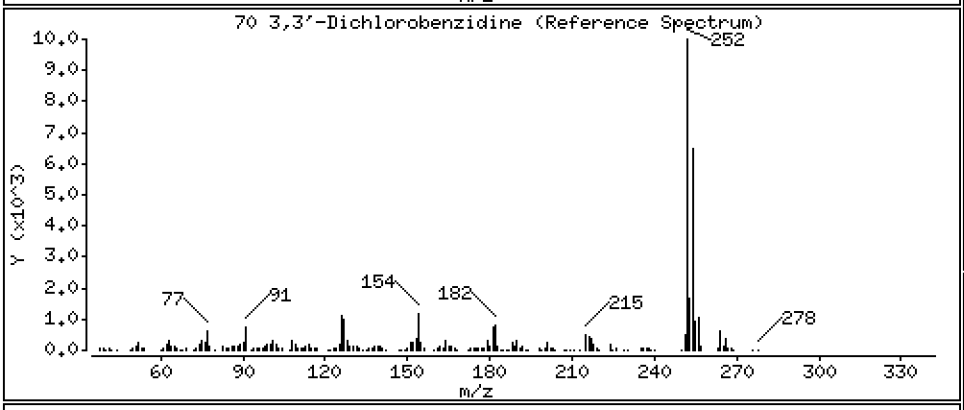
Concentration: 8.226 ug/mL

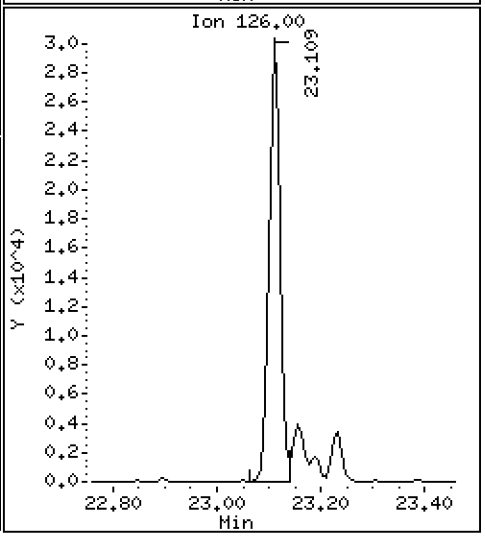


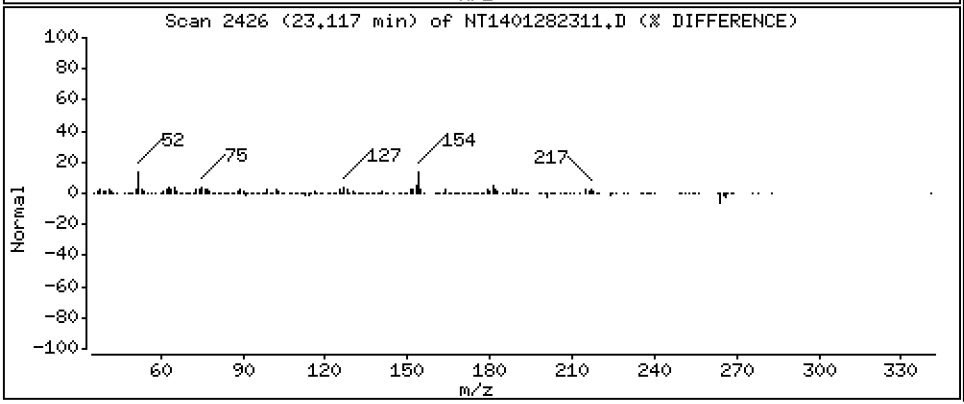












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

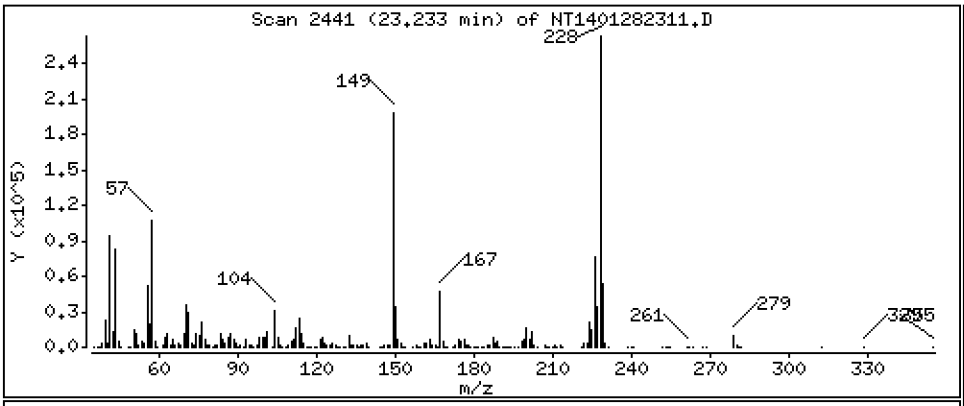
Operator: JGR

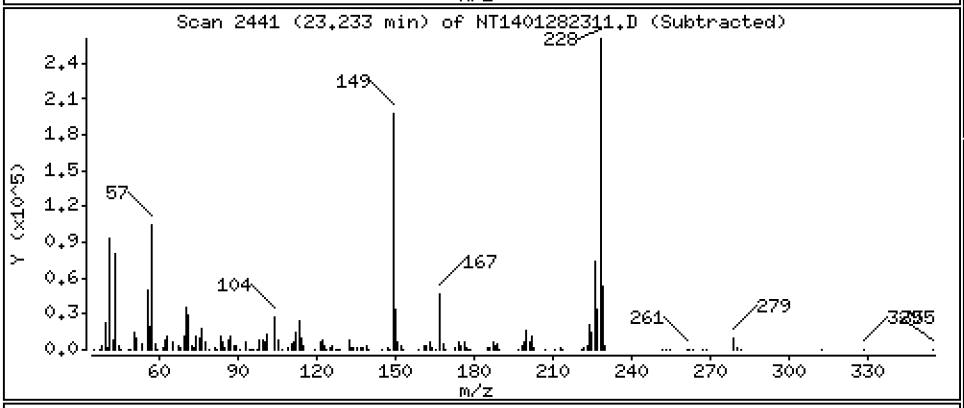
Column phase: ZB-5msi

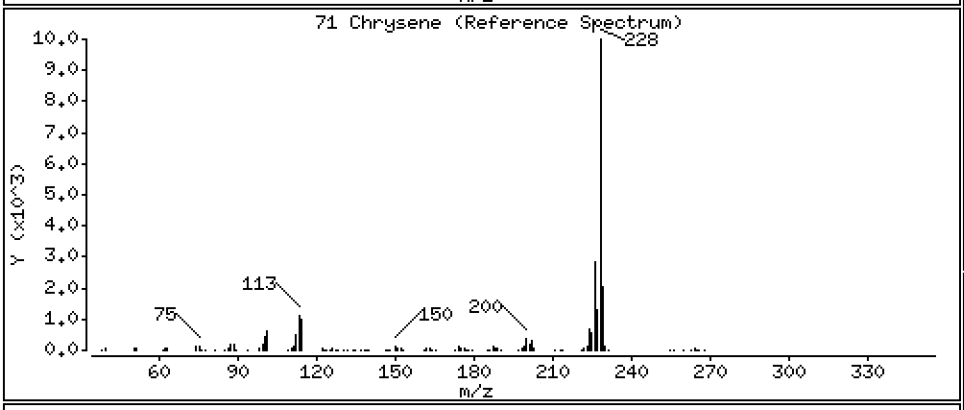
Column diameter: 0.25

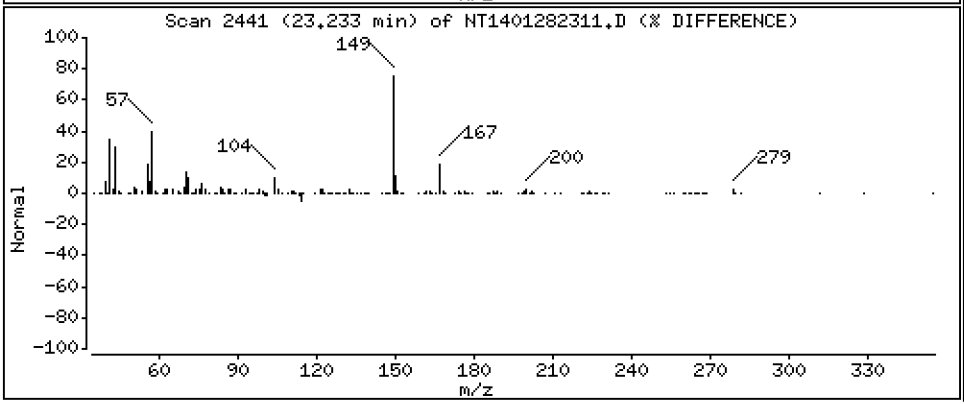
71 Chrysene

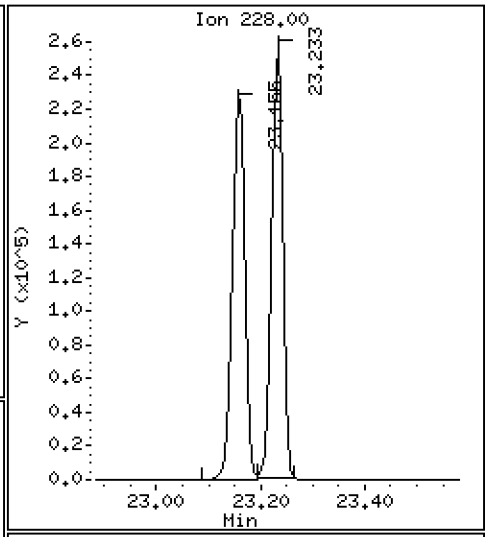
Concentration: 4.466 ug/mL

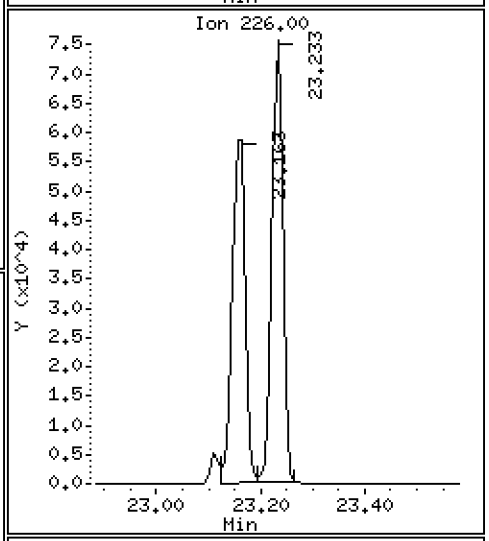


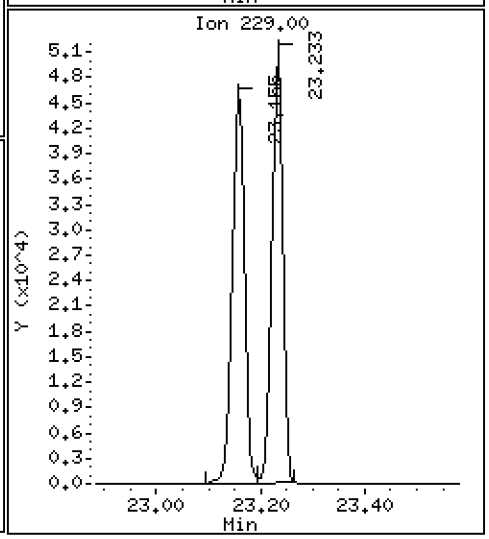












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

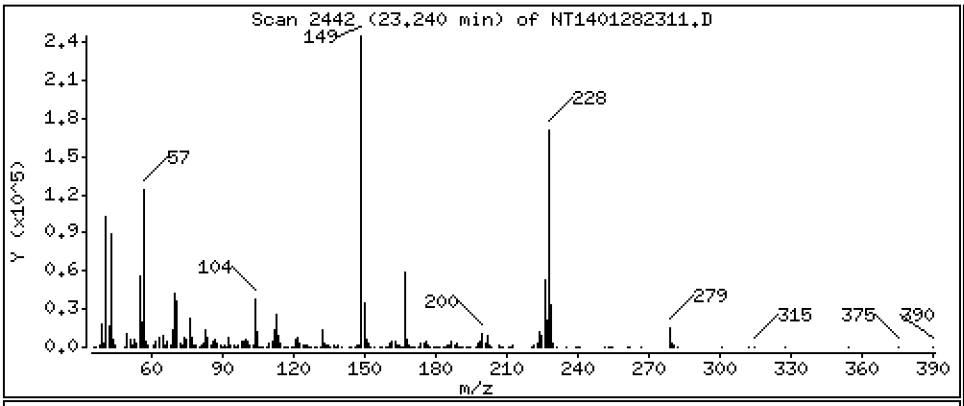
Operator: JGR

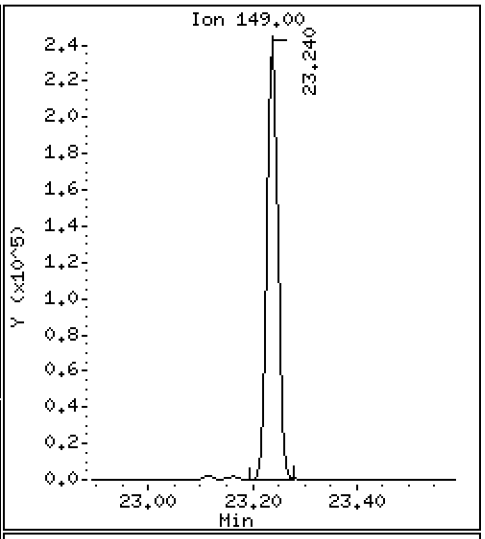
Column phase: ZB-5msi

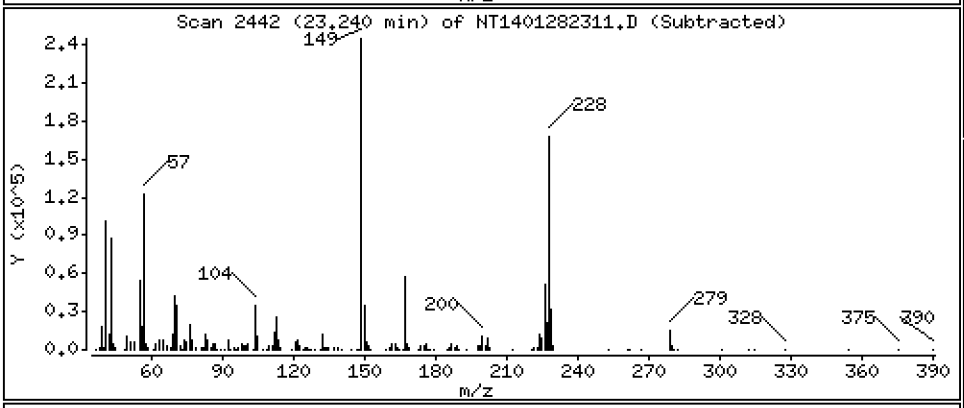
Column diameter: 0.25

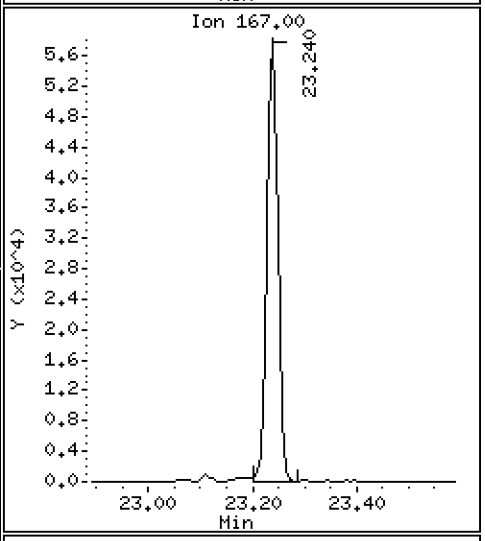
72 bis(2-Ethylhexyl)phthalate

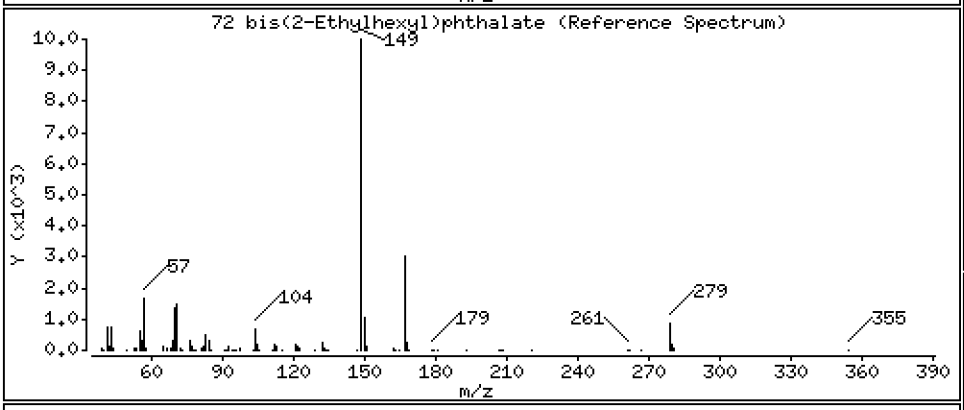
Concentration: 4.823 ug/mL

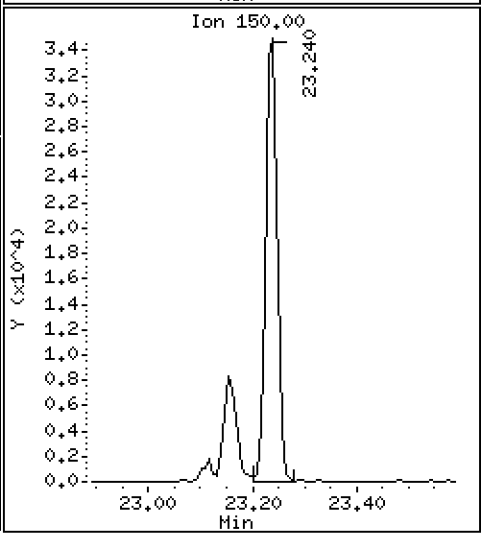


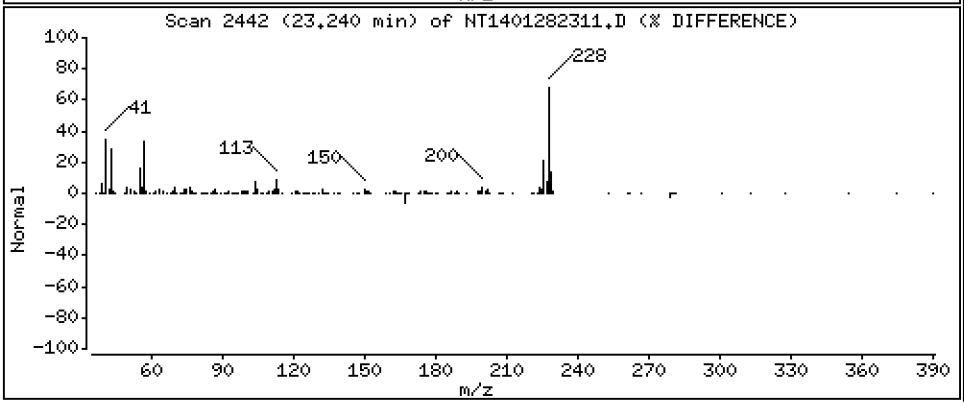












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

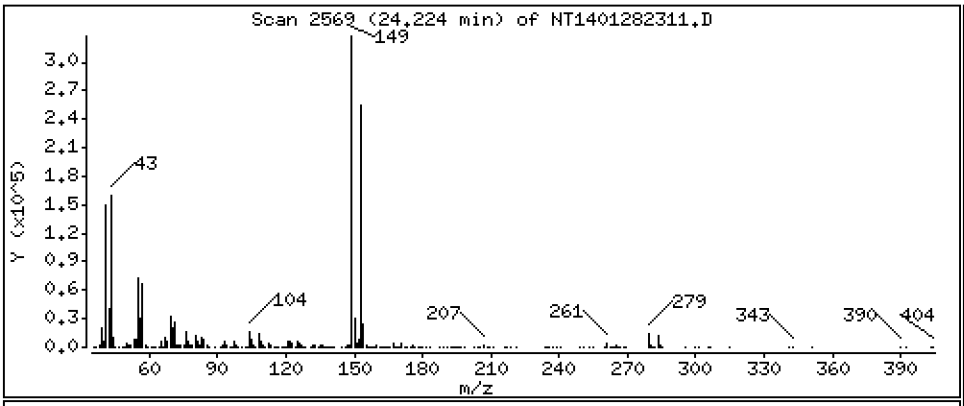
Operator: JGR

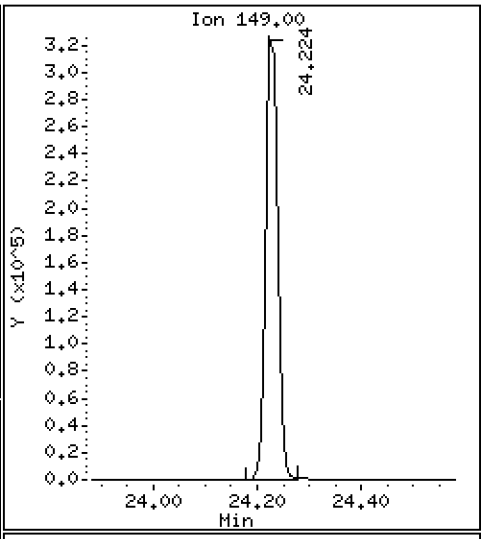
Column phase: ZB-5msi

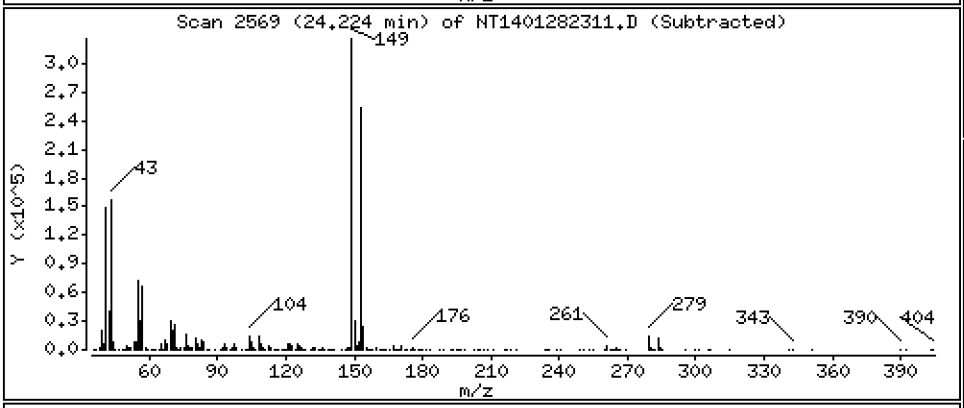
Column diameter: 0.25

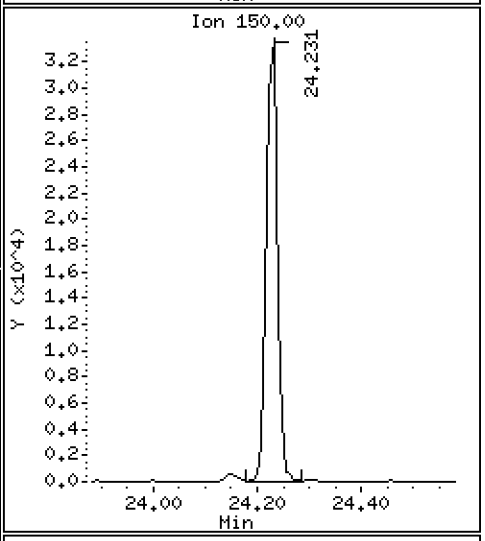
73 Di-n-octylphthalate

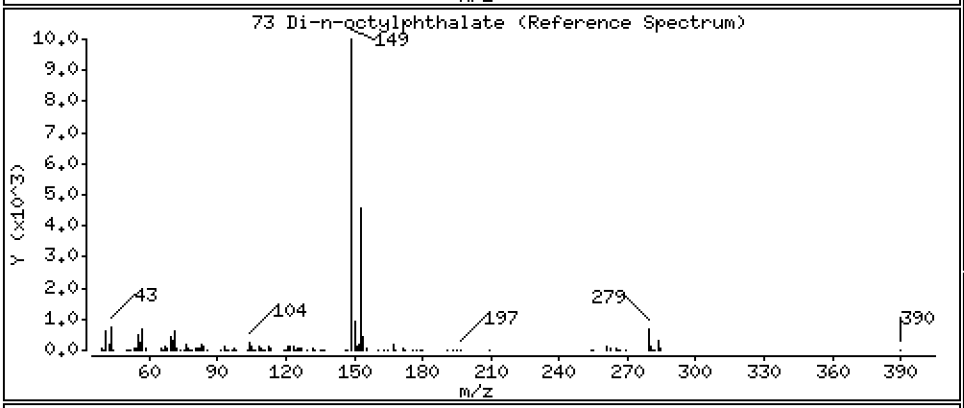
Concentration: 4.835 ug/mL

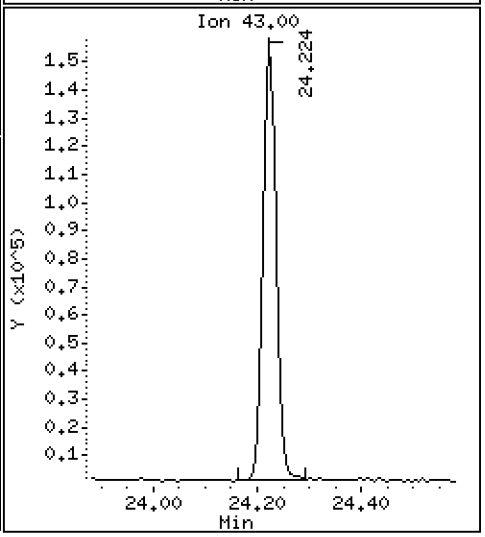


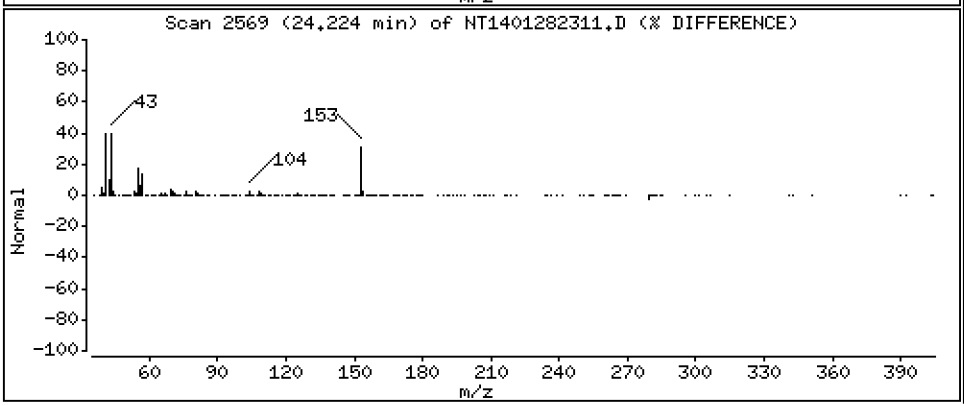












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

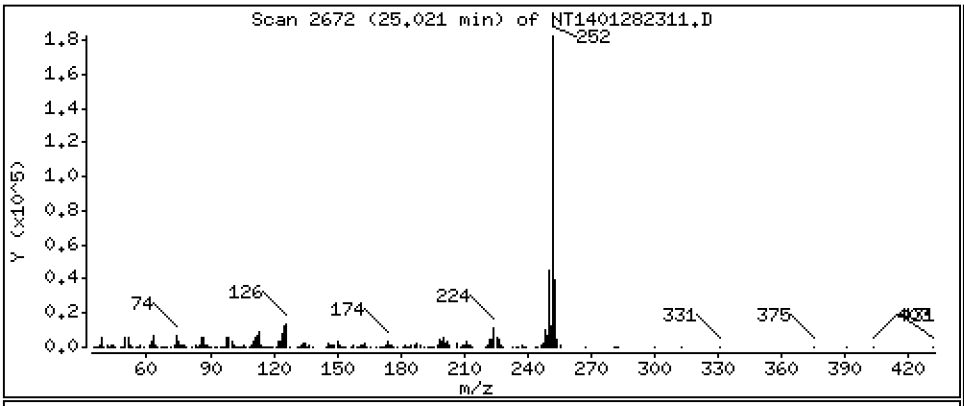
Operator: JGR

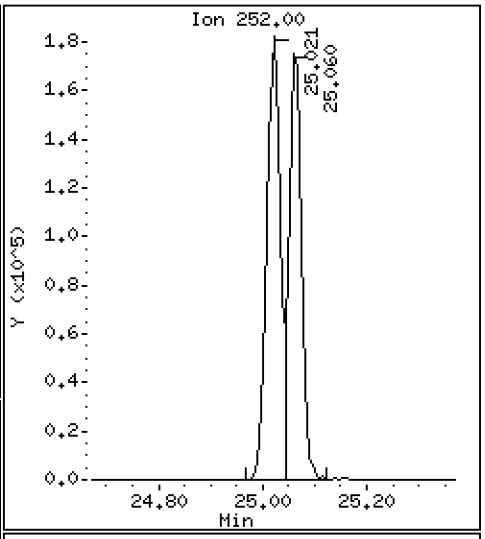
Column phase: ZB-5msi

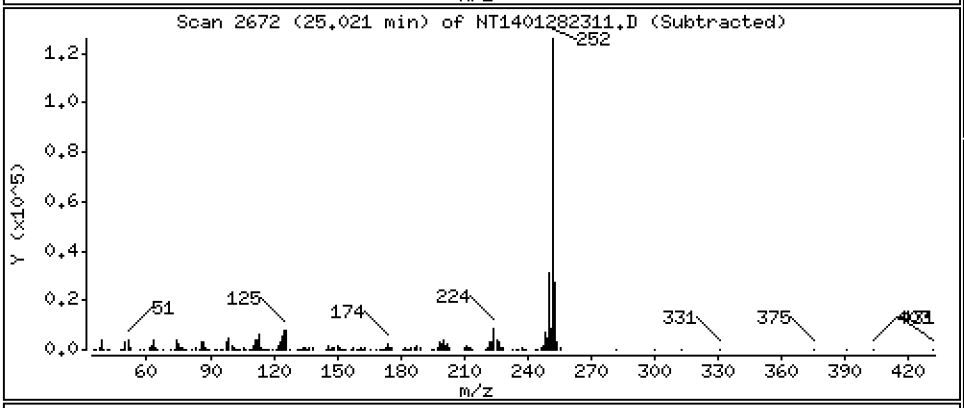
Column diameter: 0.25

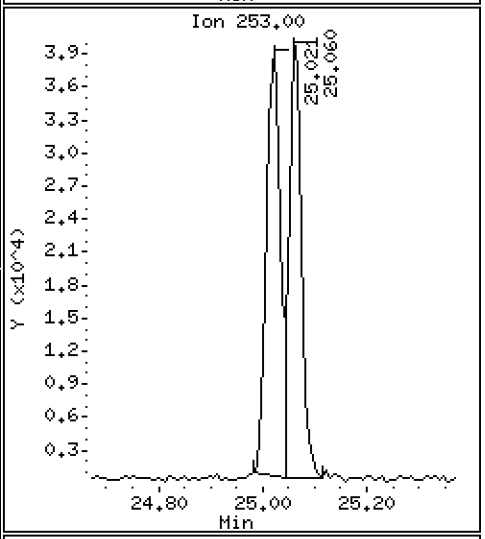
74 Benzo(b)fluoranthene

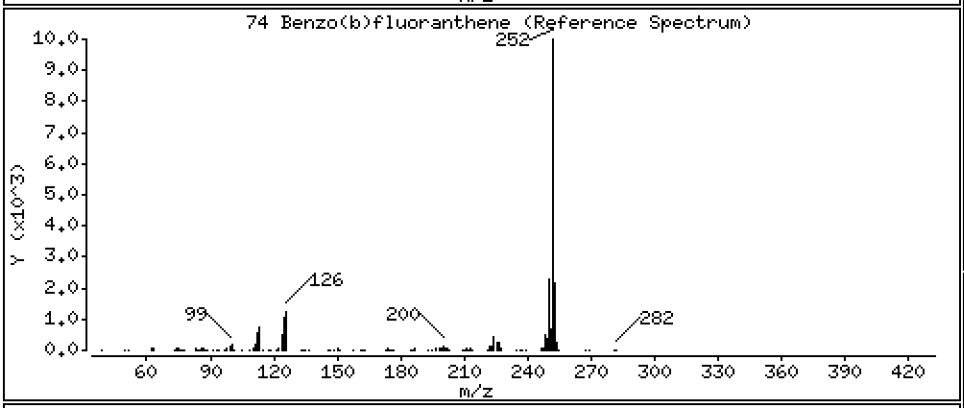
Concentration: 4.734 ug/mL

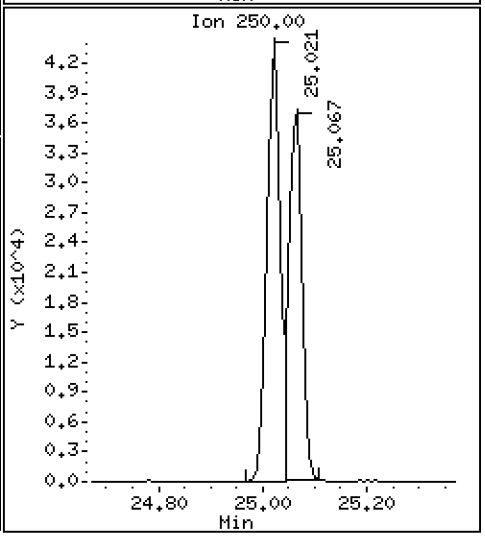


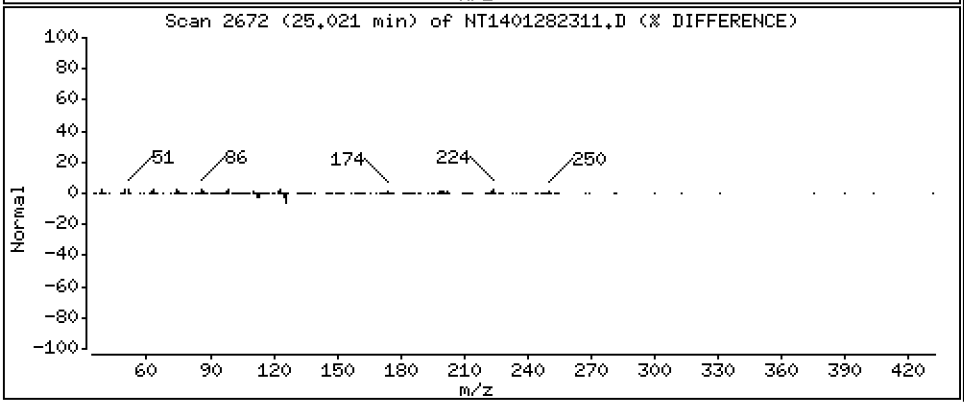












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

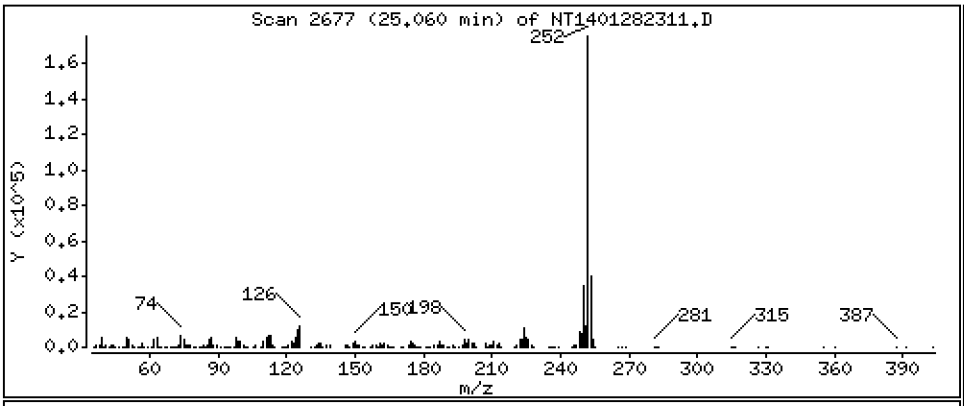
Operator: JGR

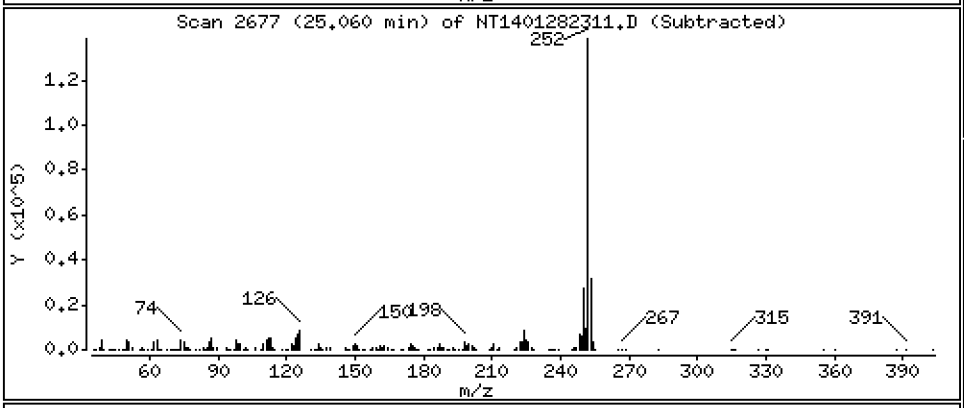
Column phase: ZB-5msi

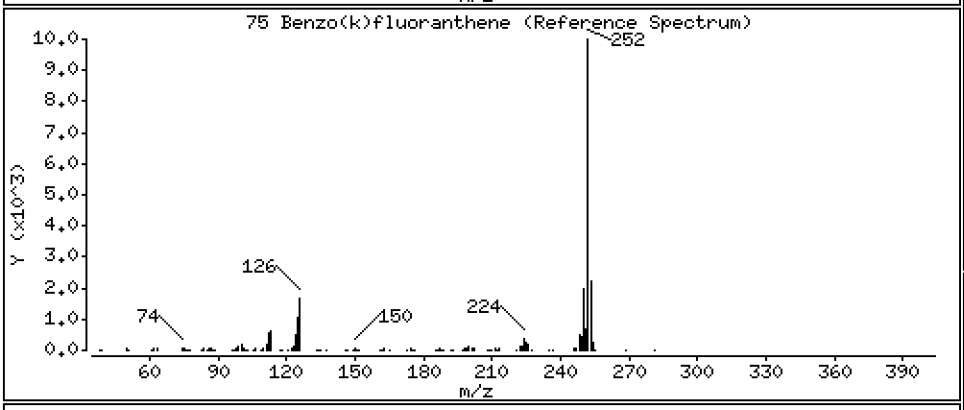
Column diameter: 0.25

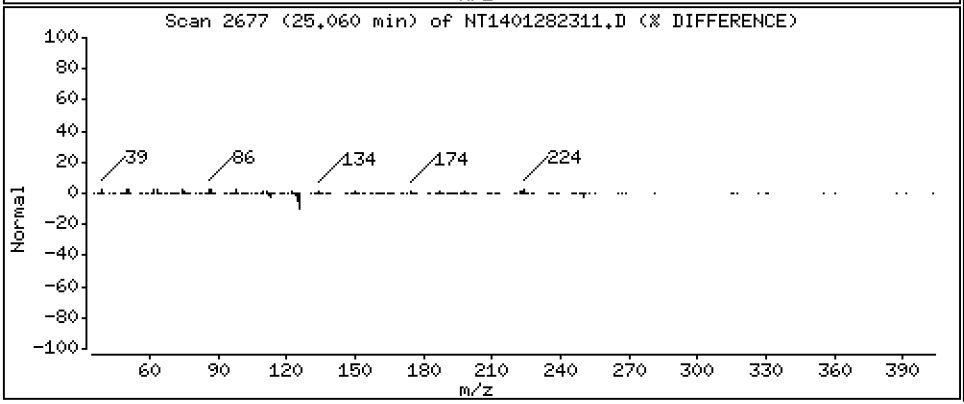
75 Benzo(k)fluoranthene

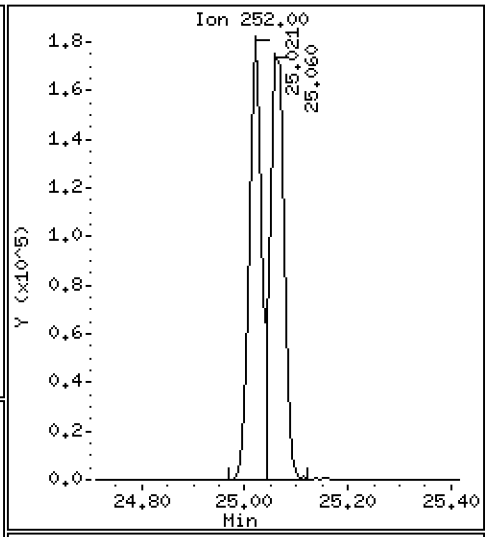
Concentration: 4.387 ug/mL

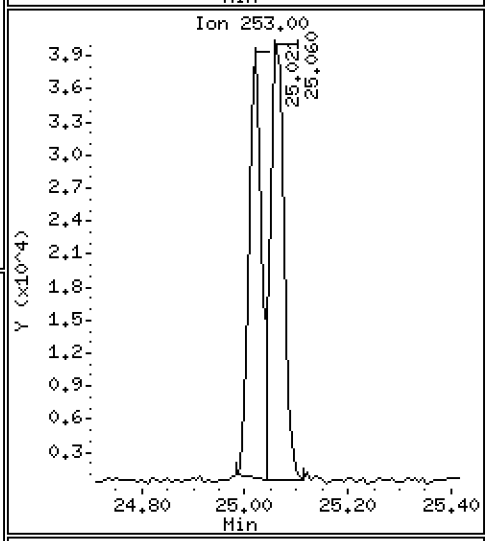


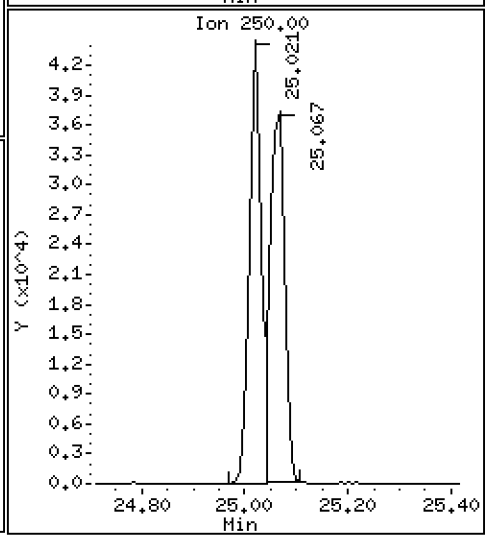












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

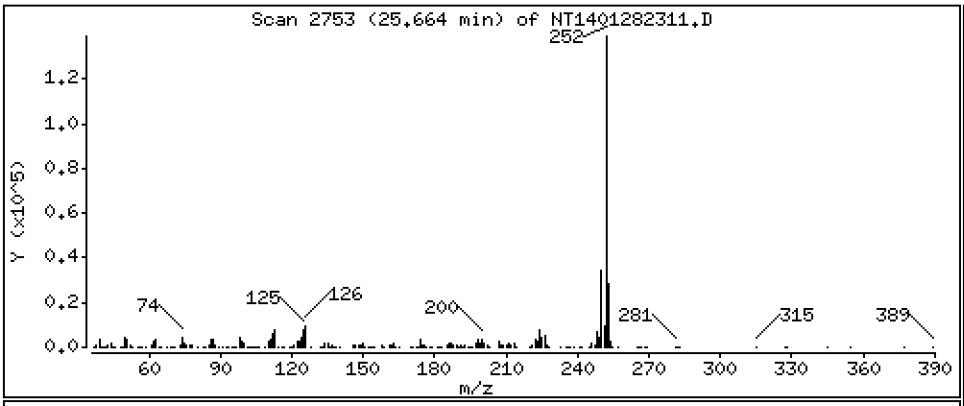
Operator: JGR

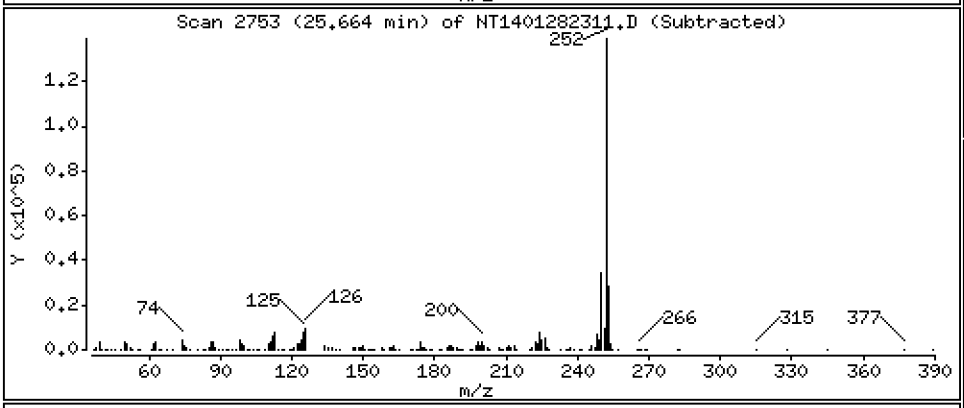
Column phase: ZB-5msi

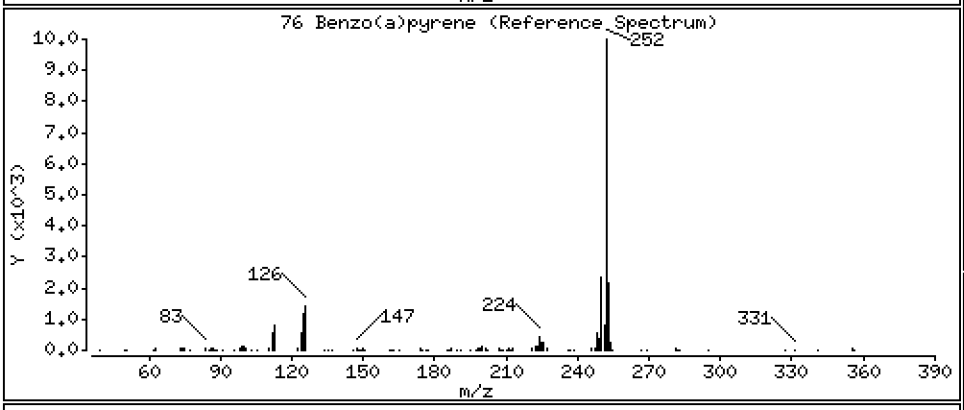
Column diameter: 0.25

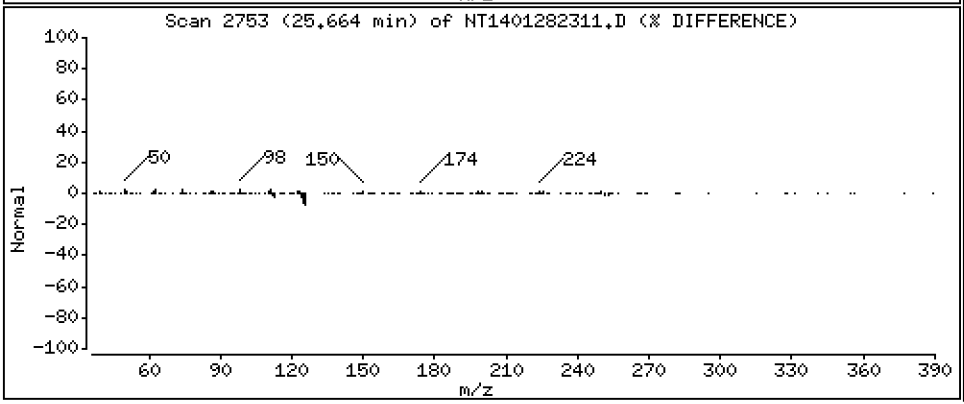
76 Benzo(a)pyrene

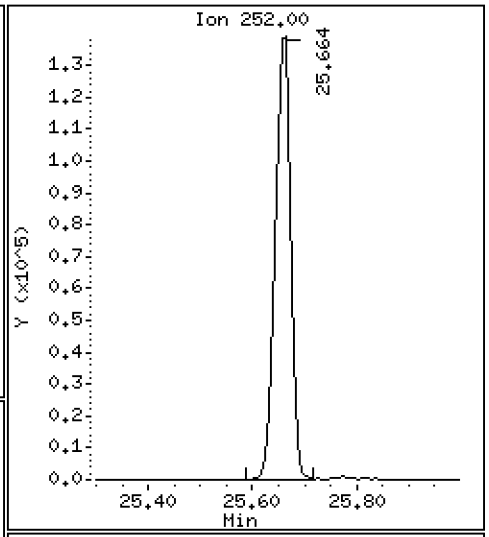
Concentration: 4.660 ug/mL

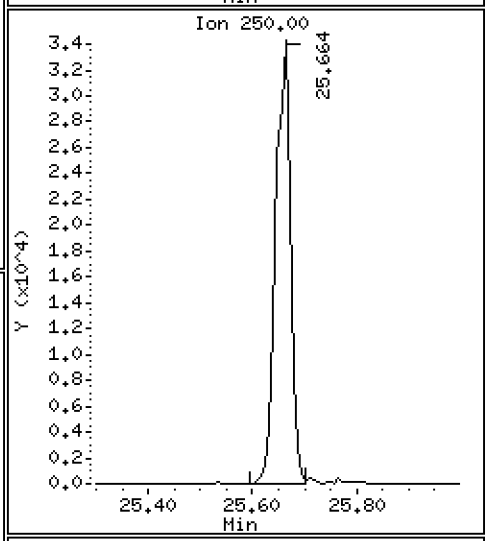


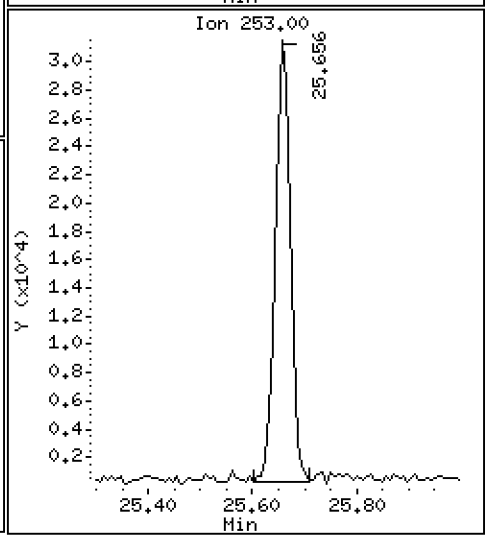












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

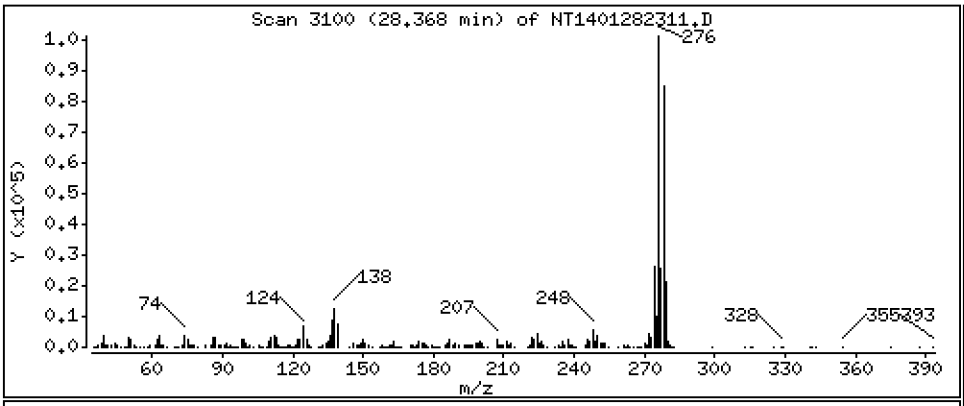
Operator: JGR

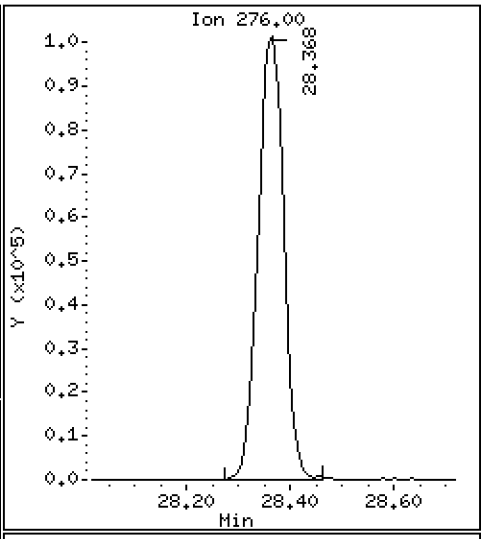
Column phase: ZB-5msi

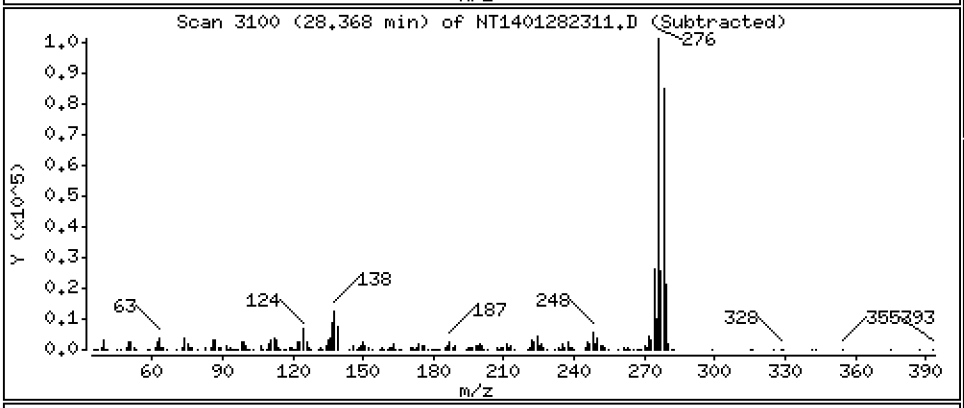
Column diameter: 0.25

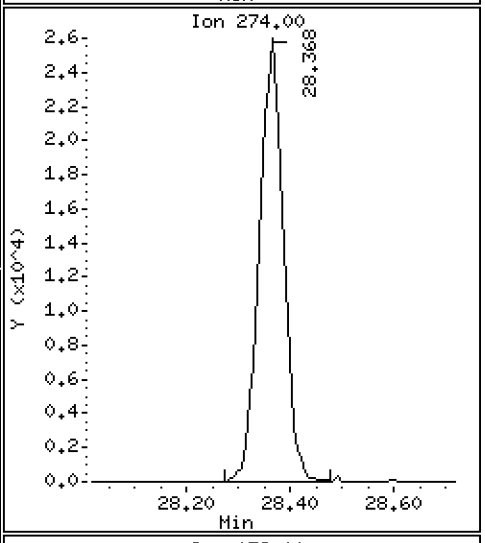
78 Indeno(1,2,3-cd)pyrene

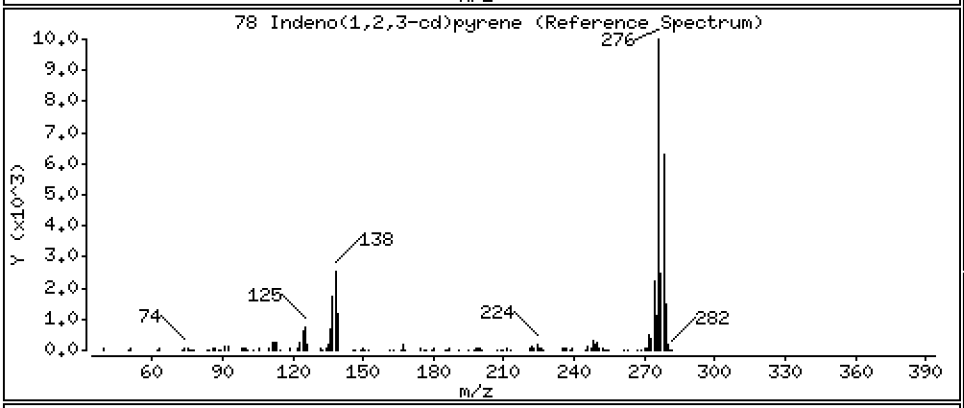
Concentration: 4.636 ug/mL

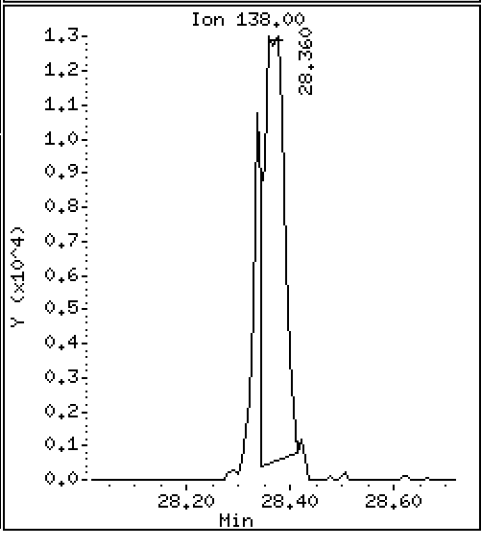


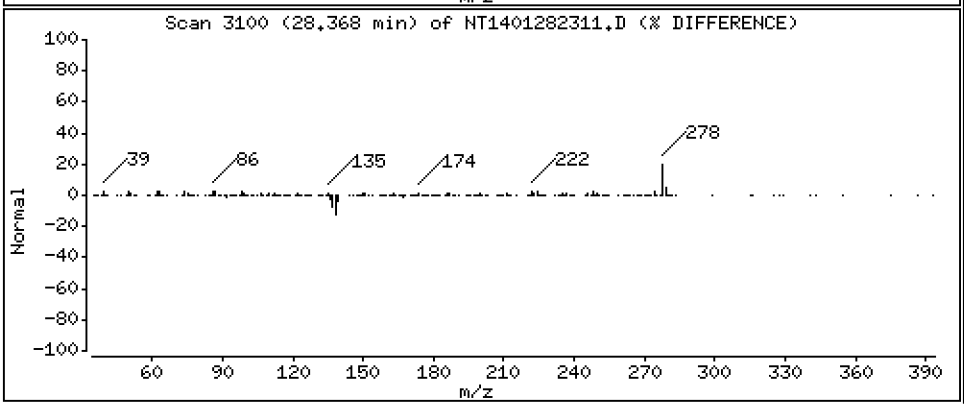












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

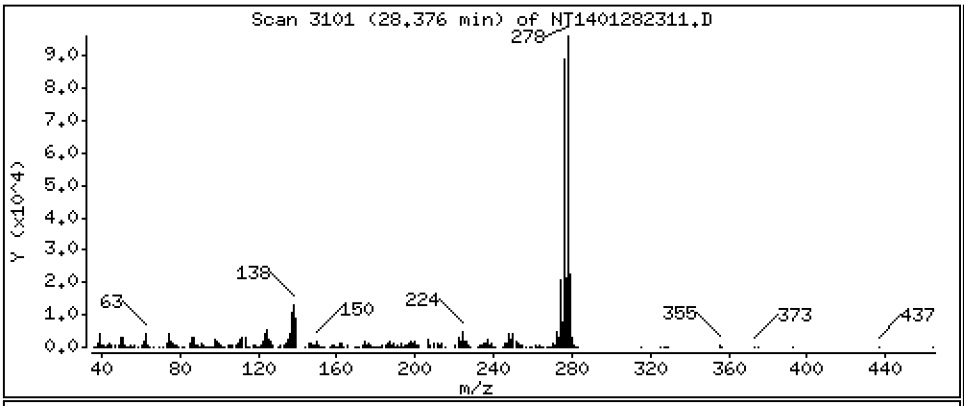
Operator: JGR

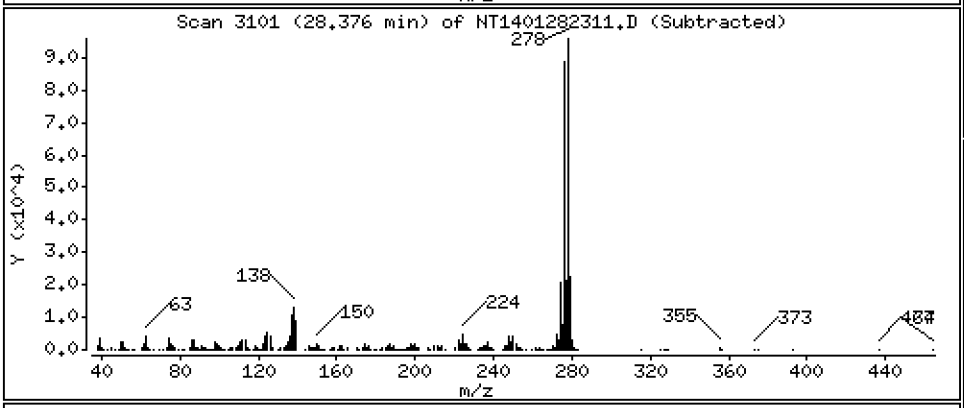
Column phase: ZB-5msi

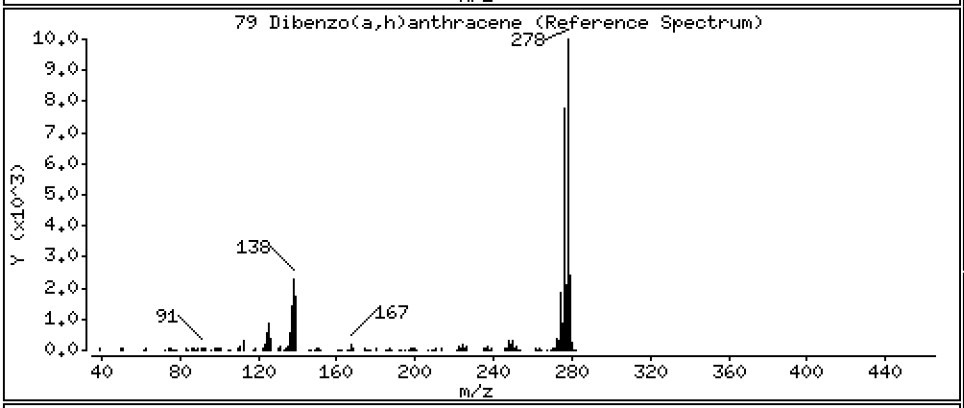
Column diameter: 0.25

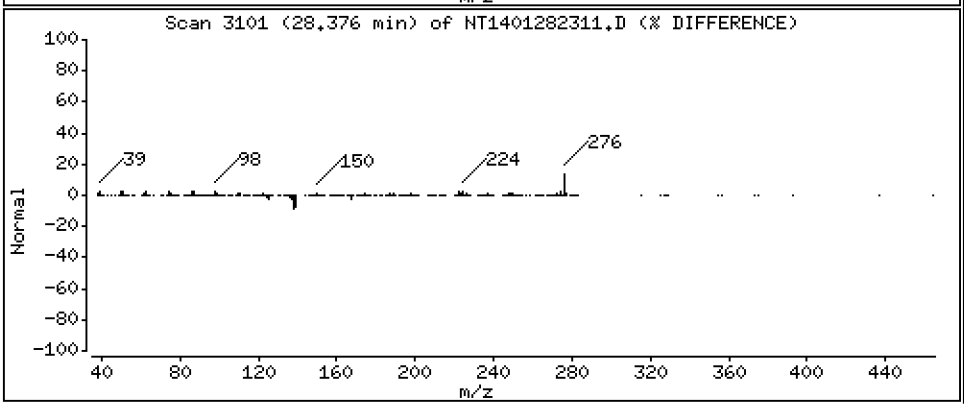
79 Dibenzo(a,h)anthracene

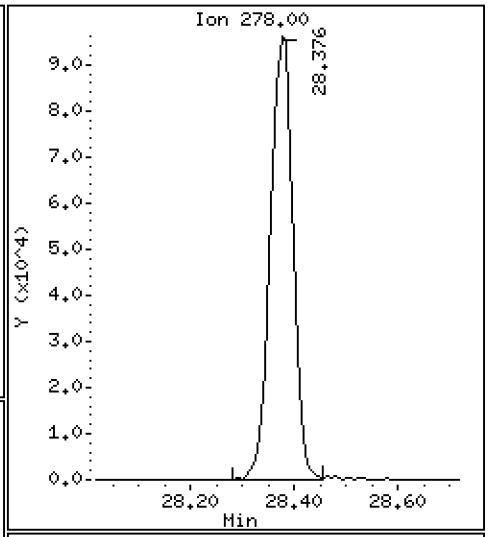
Concentration: 4.455 ug/mL

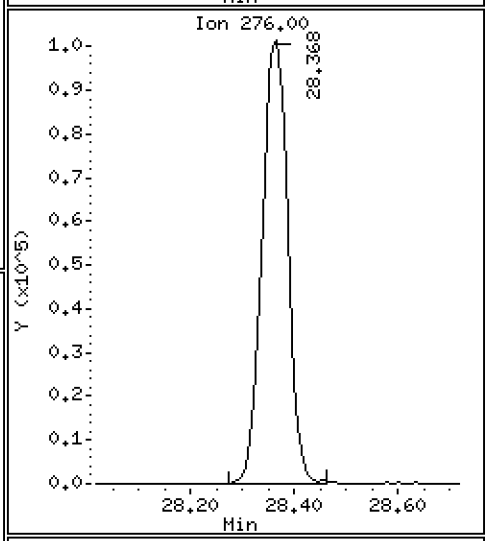


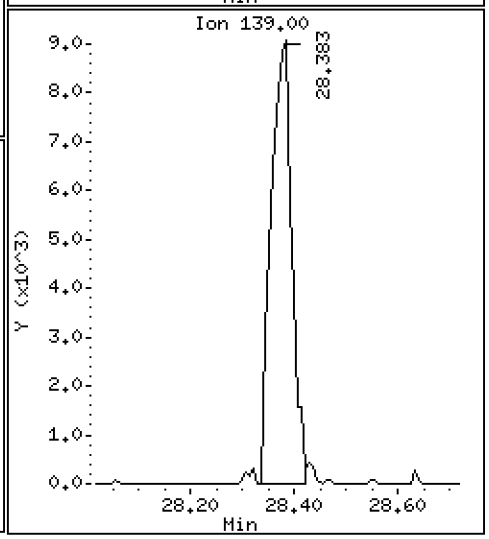












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

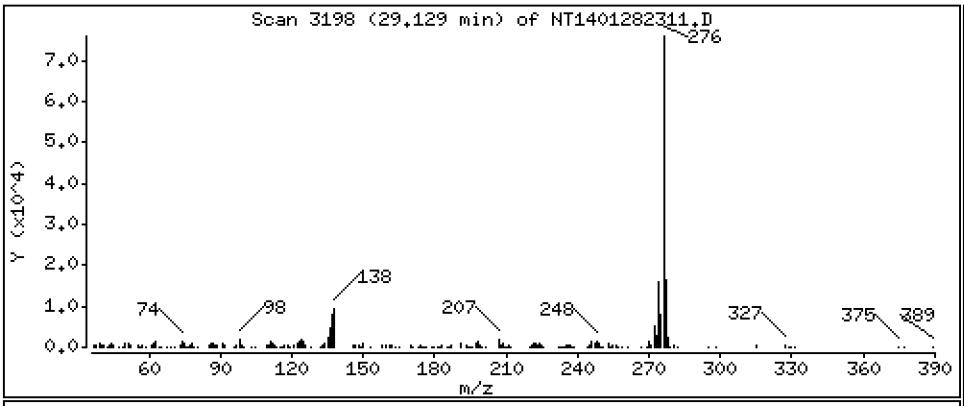
Operator: JGR

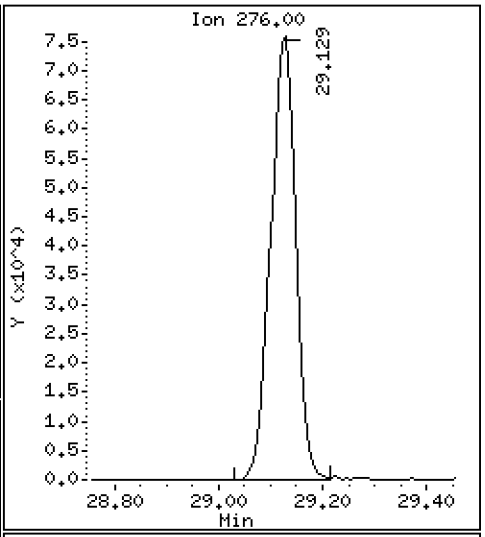
Column phase: ZB-5msi

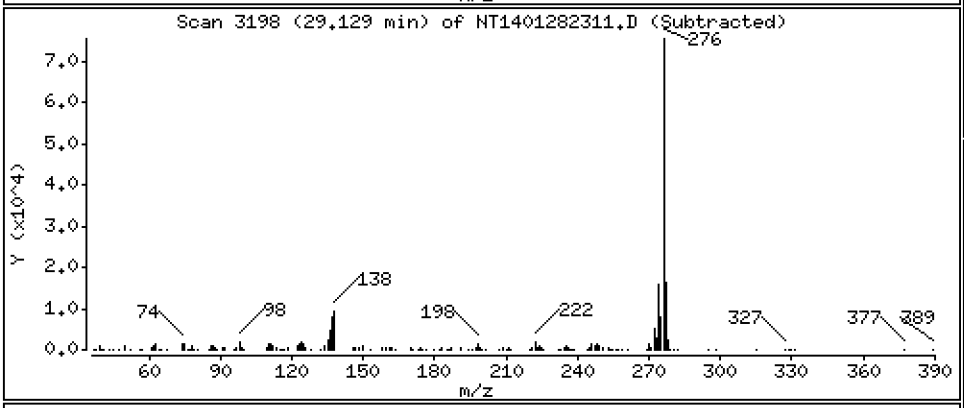
Column diameter: 0.25

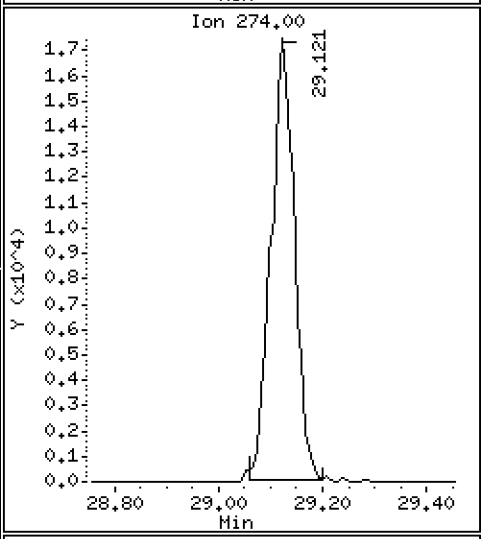
80 Benzo(g,h,i)perylene

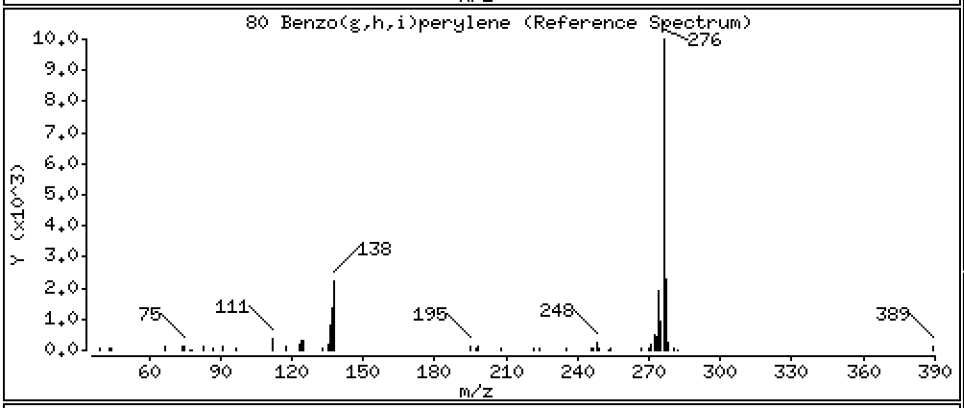
Concentration: 4.657 ug/mL

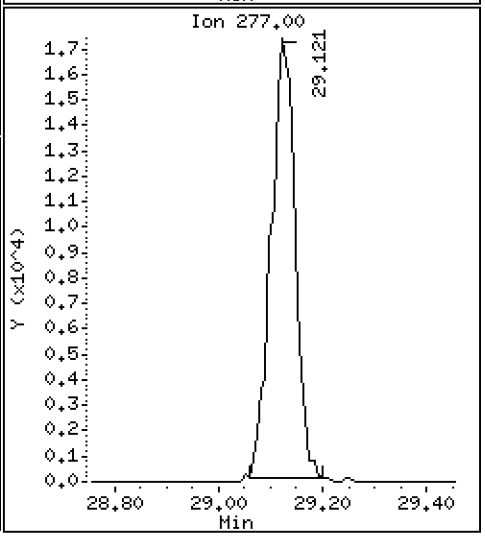


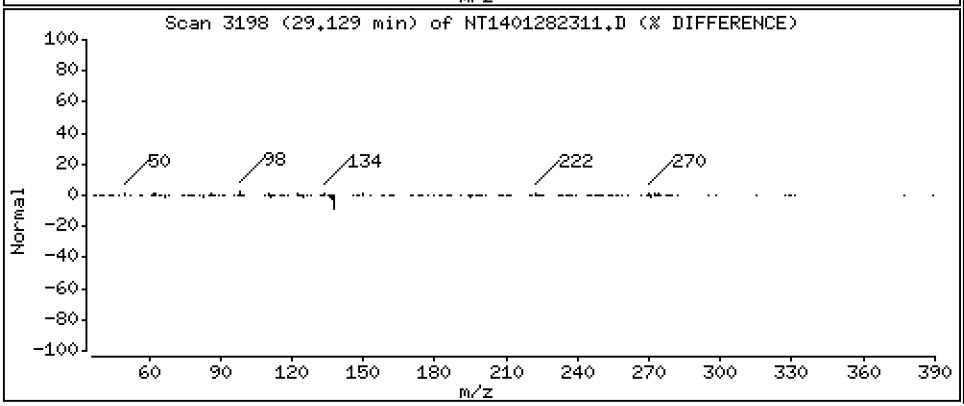












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

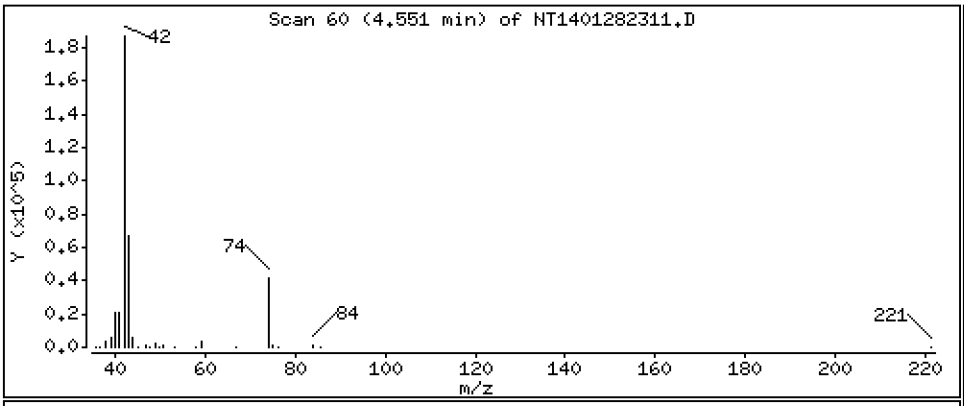
Operator: JGR

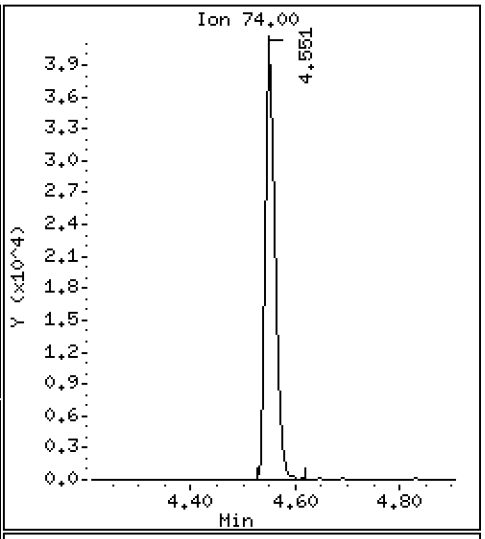
Column phase: ZB-5msi

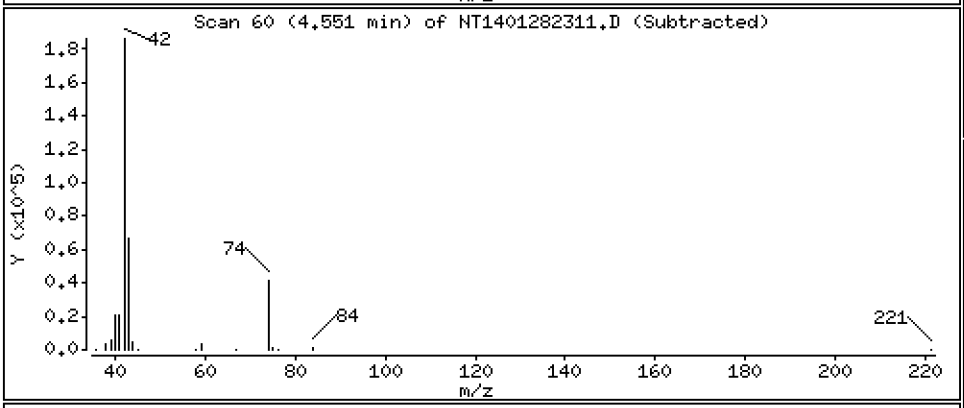
Column diameter: 0.25

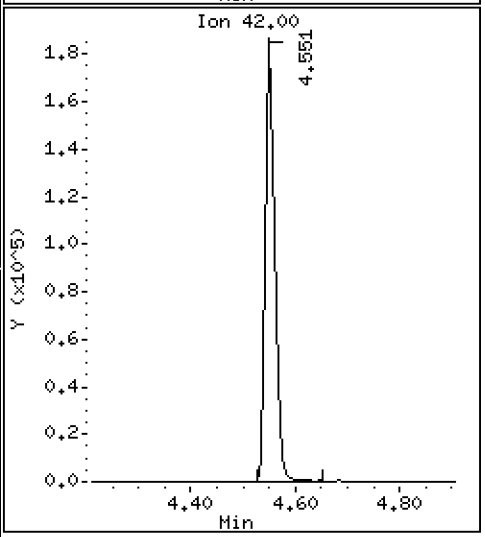
90 N-Nitrosodimethylamine

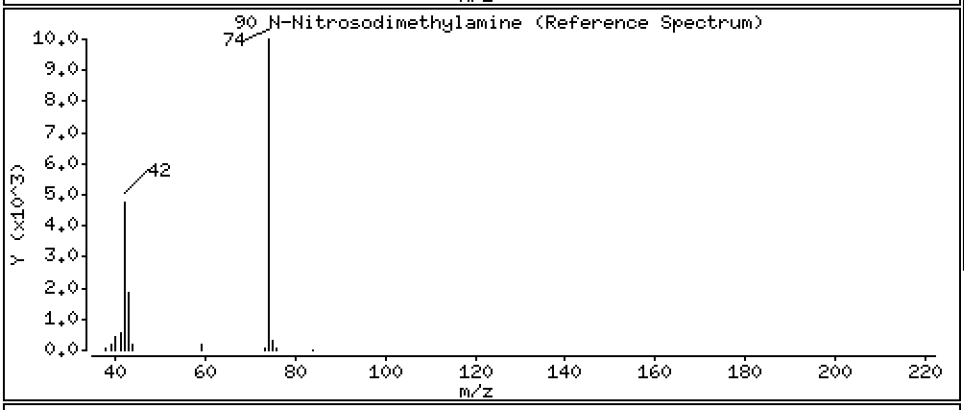
Concentration: 4.932 ug/mL

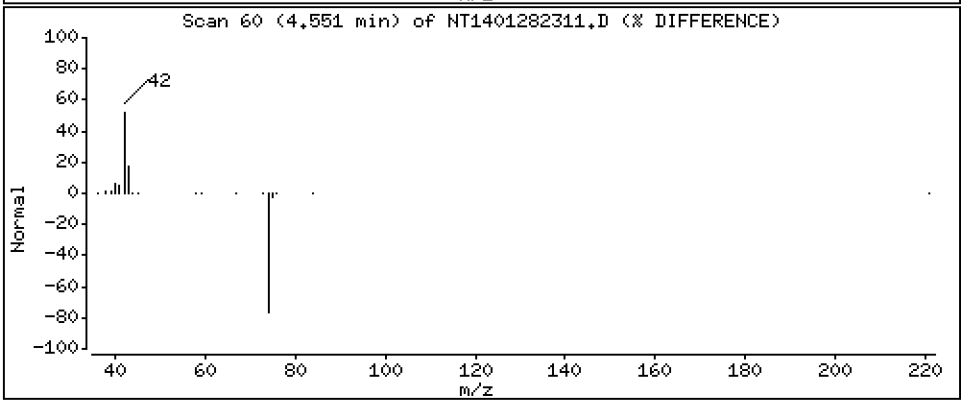












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

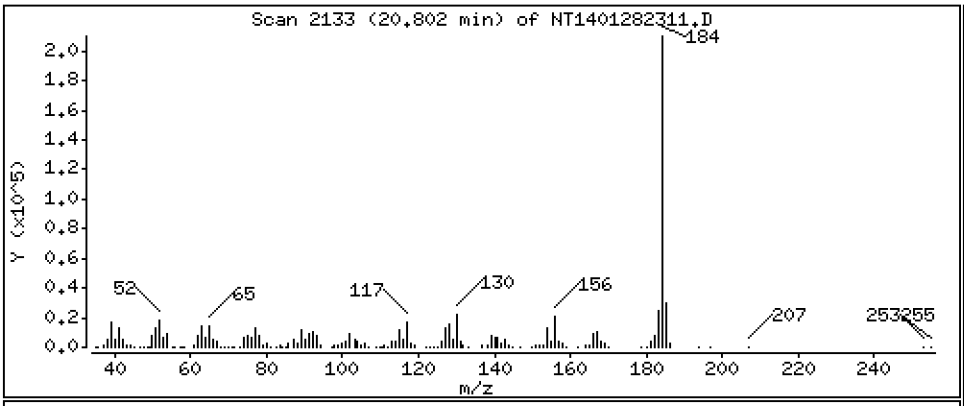
Operator: JGR

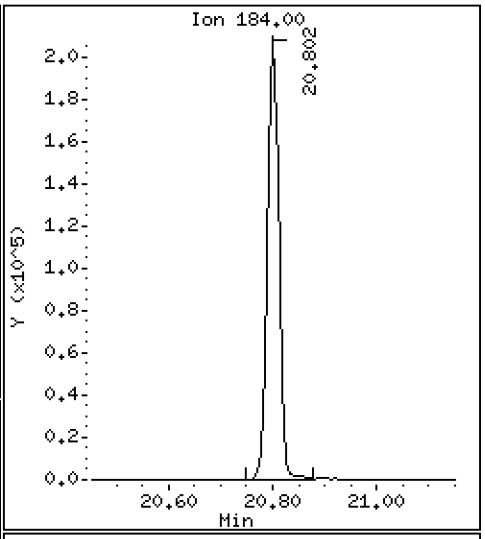
Column phase: ZB-5msi

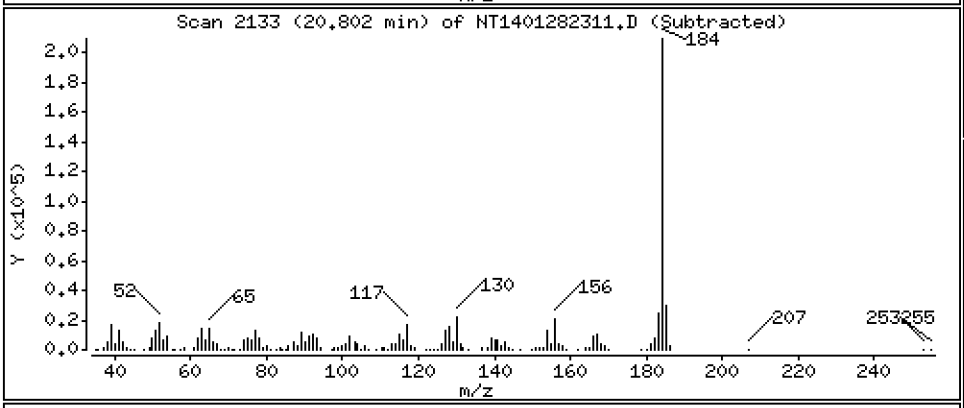
Column diameter: 0.25

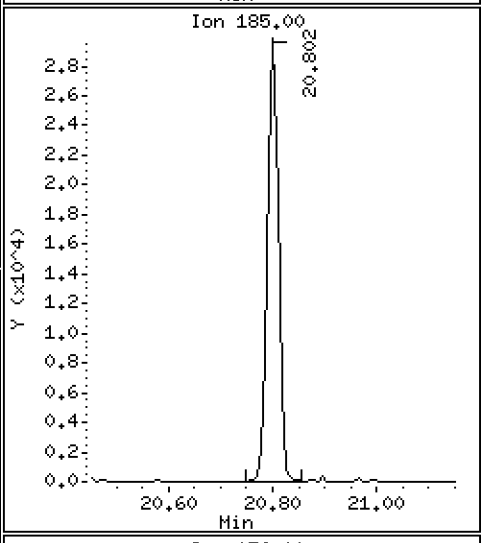
93 Benzidine

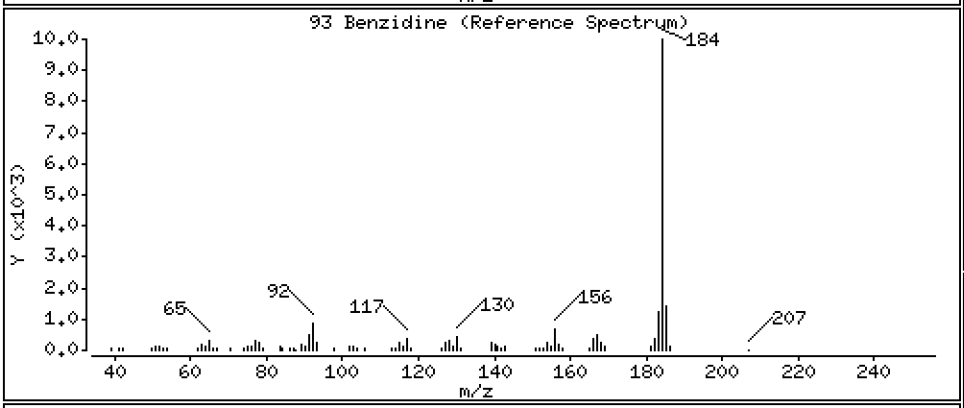
Concentration: 8.135 ug/mL

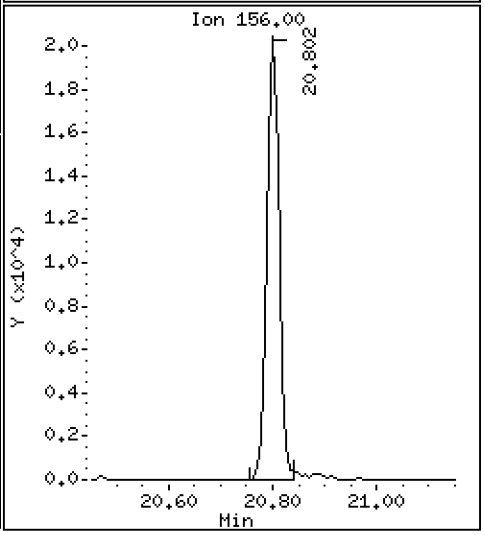


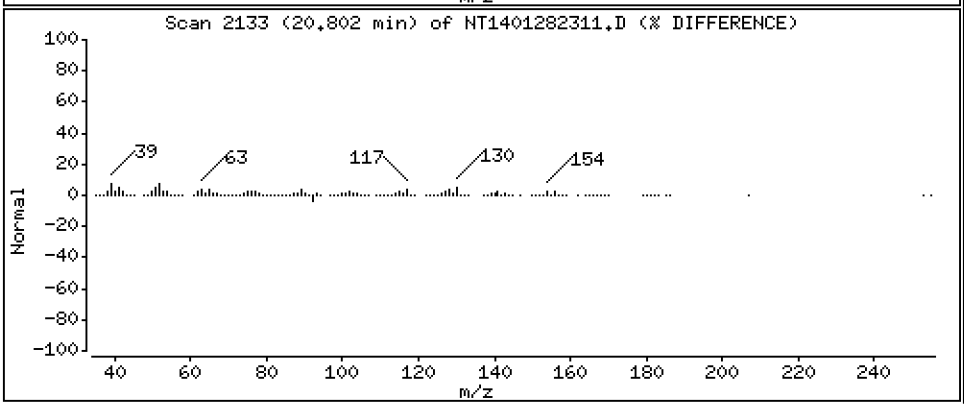












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

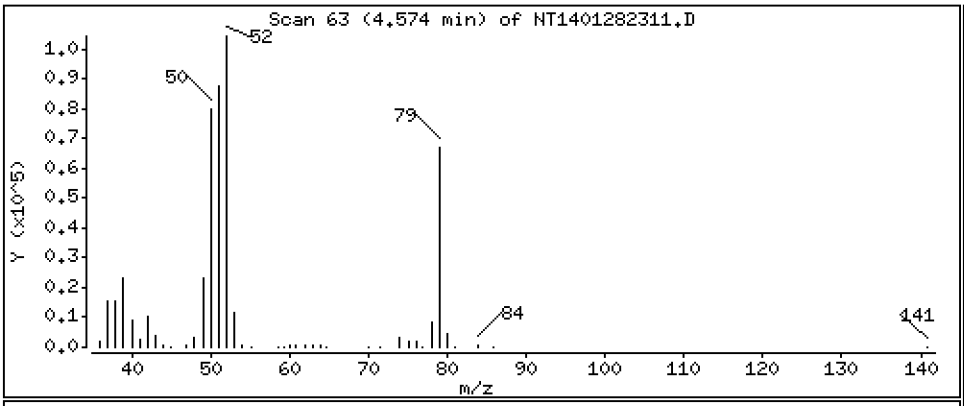
Operator: JGR

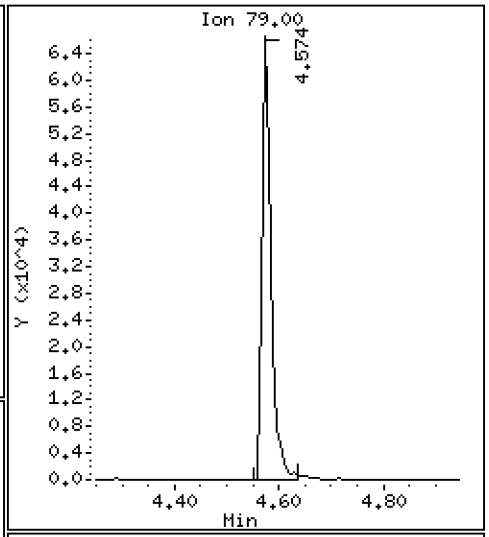
Column phase: ZB-5msi

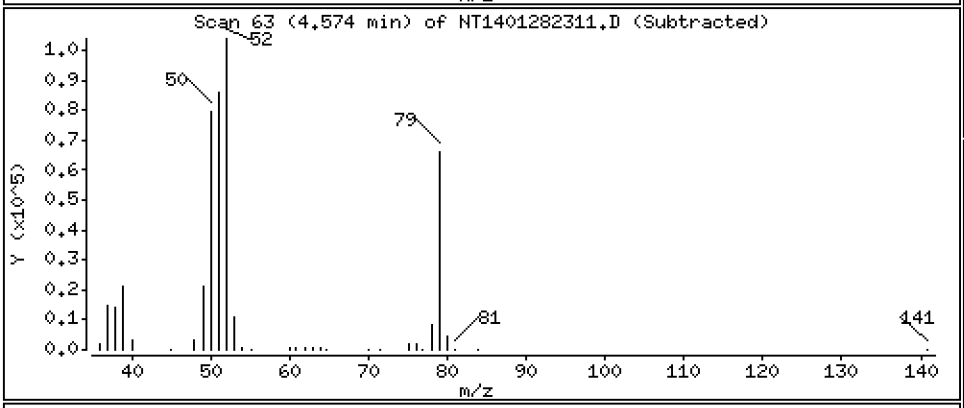
Column diameter: 0.25

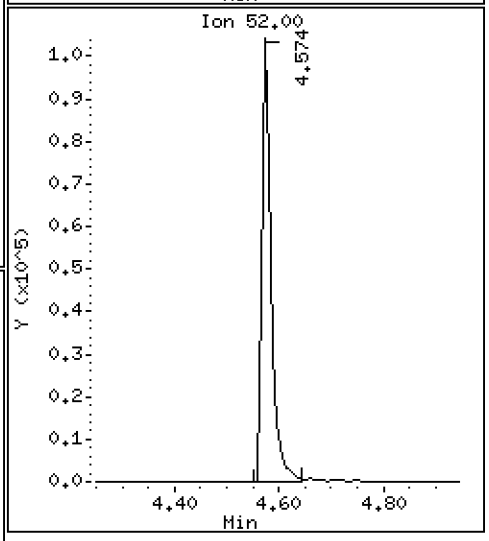
103 Pyridine

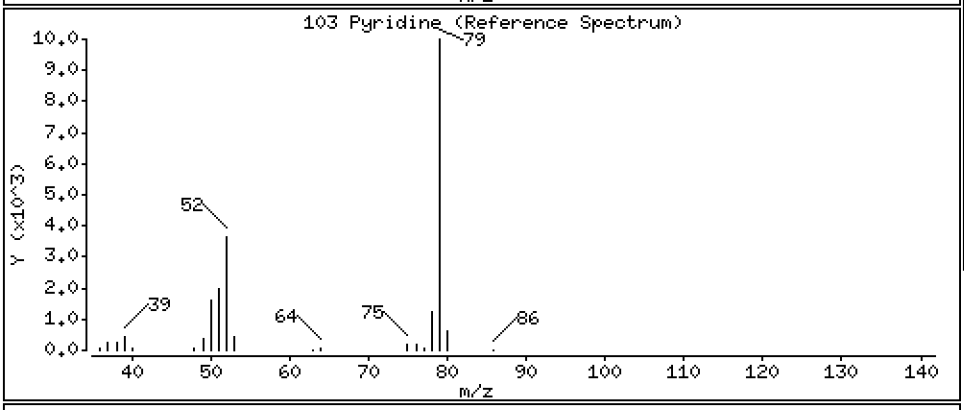
Concentration: 2.723 ug/mL

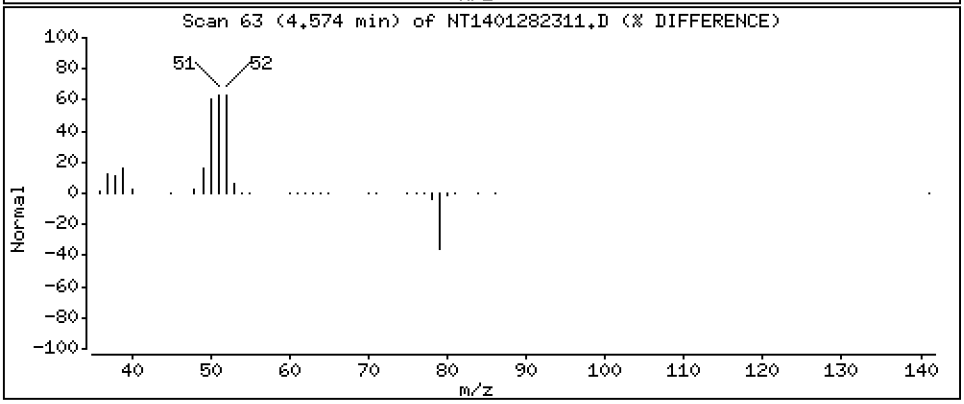












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

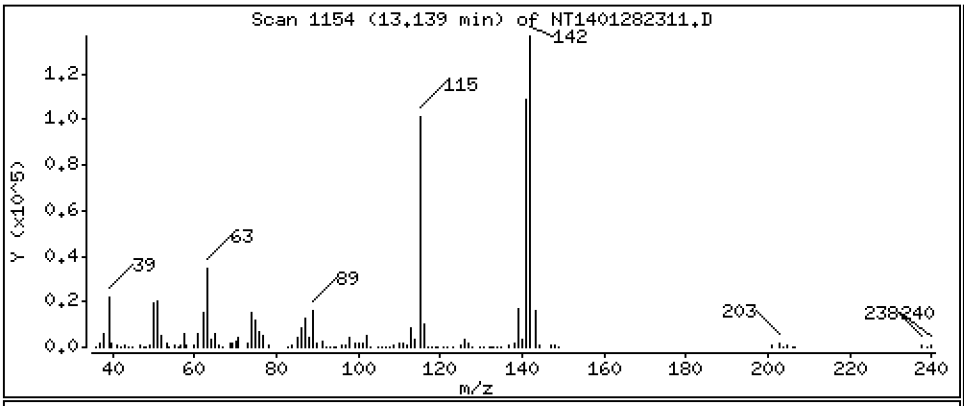
Operator: JGR

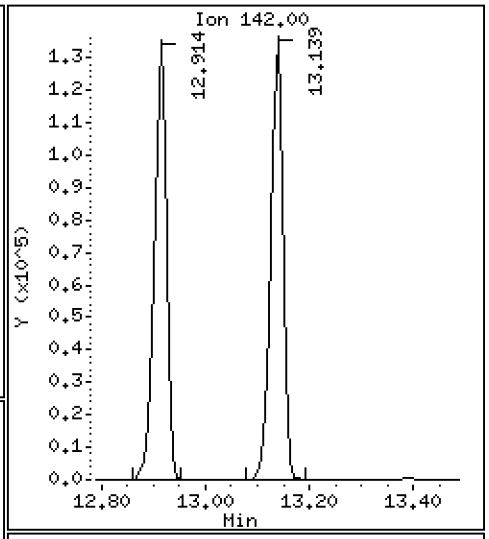
Column phase: ZB-5msi

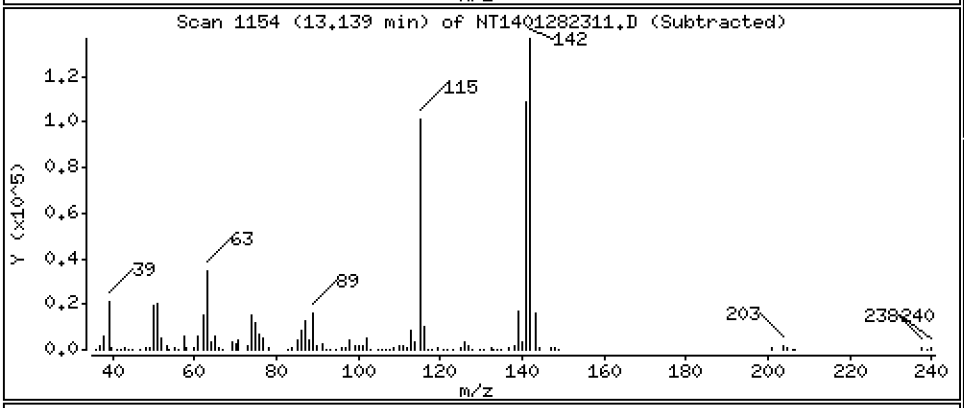
Column diameter: 0.25

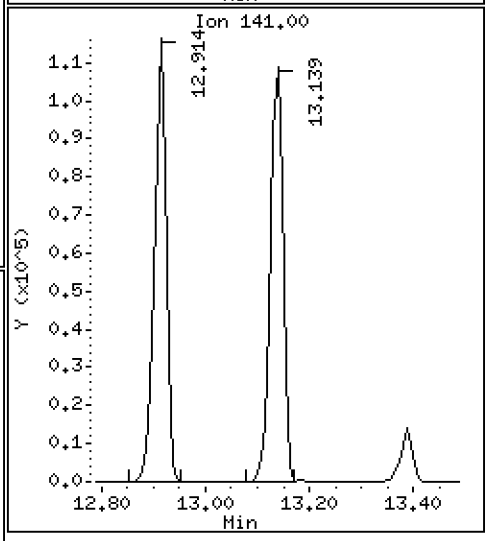
105 1-methylnaphthalene

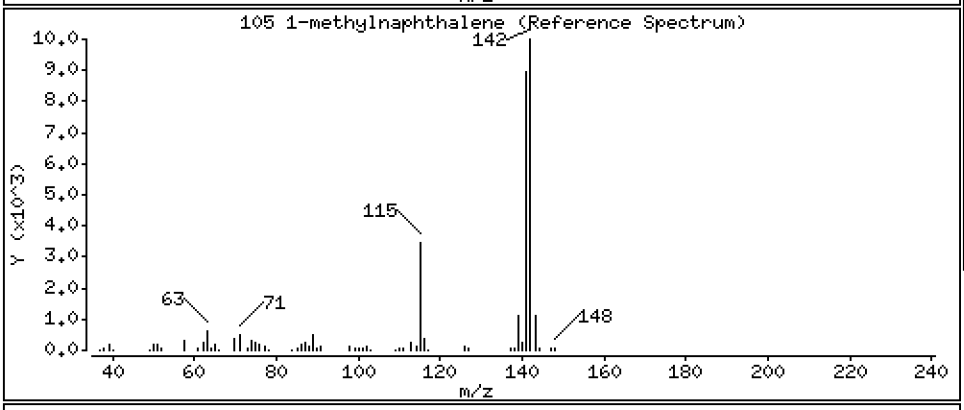
Concentration: 4.378 ug/mL

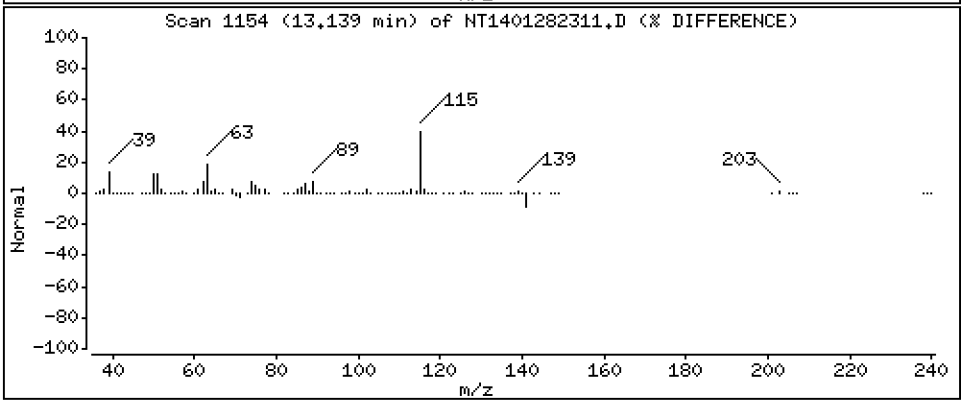












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

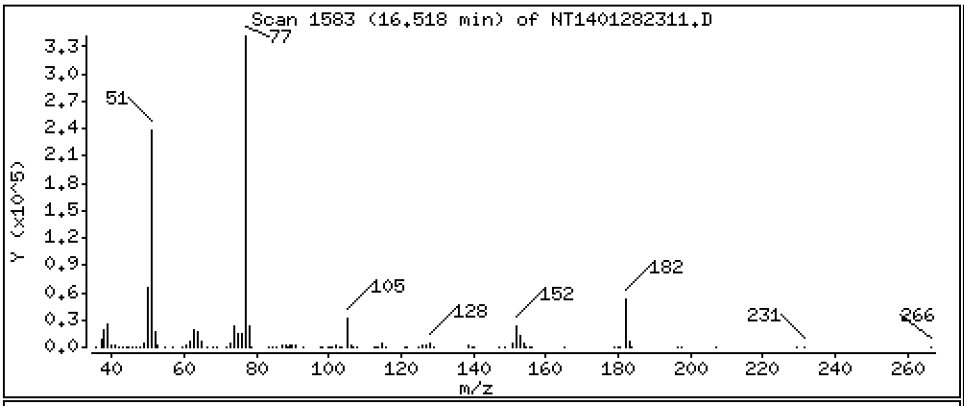
Operator: JGR

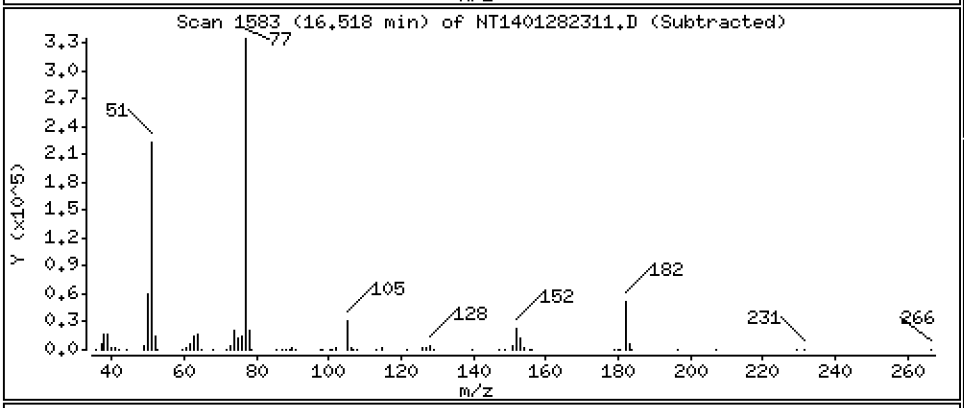
Column phase: ZB-5msi

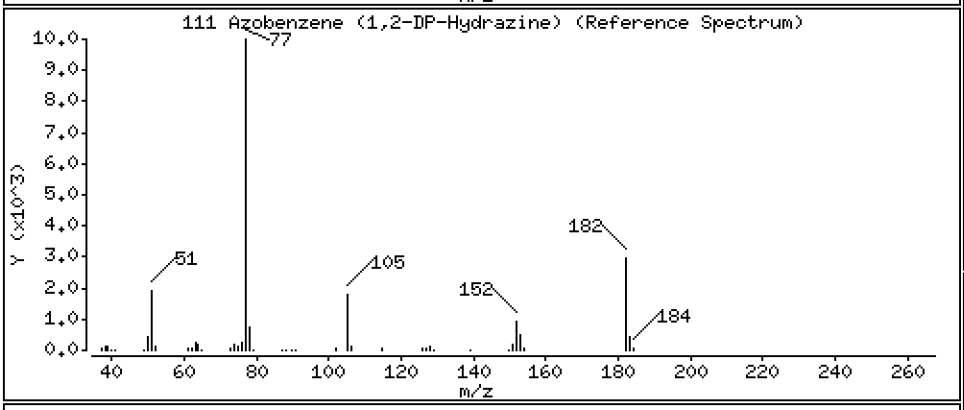
Column diameter: 0.25

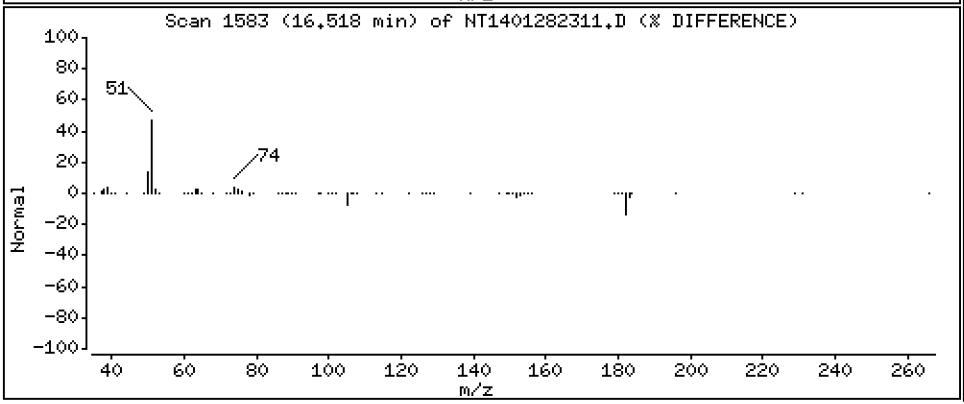
111 Azobenzene (1,2-DP-Hydrazine)

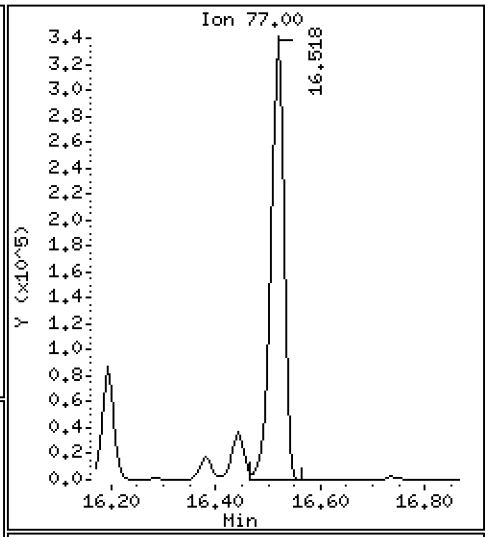
Concentration: 4.801 ug/mL

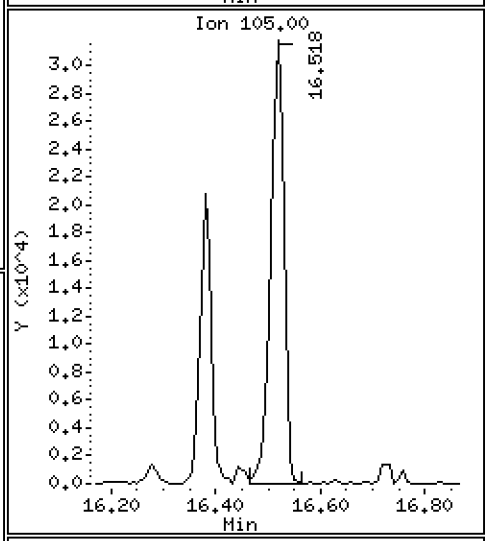


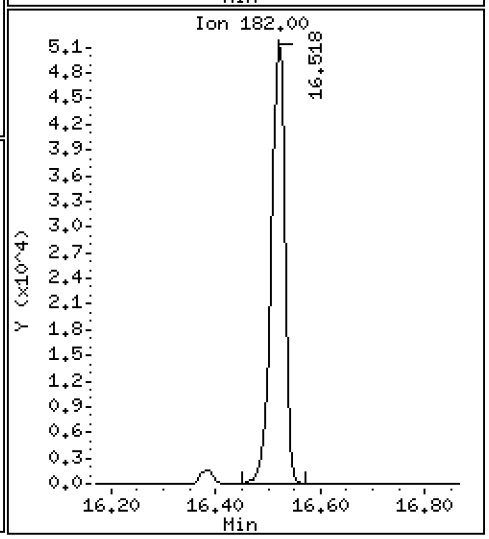












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

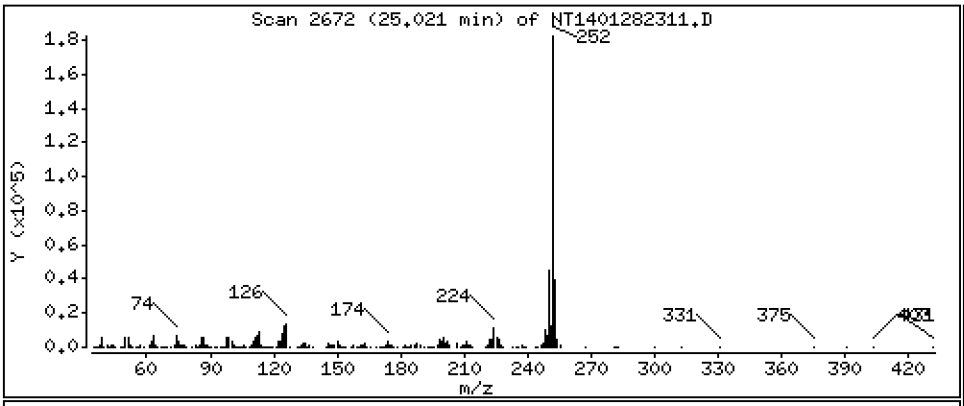
Operator: JGR

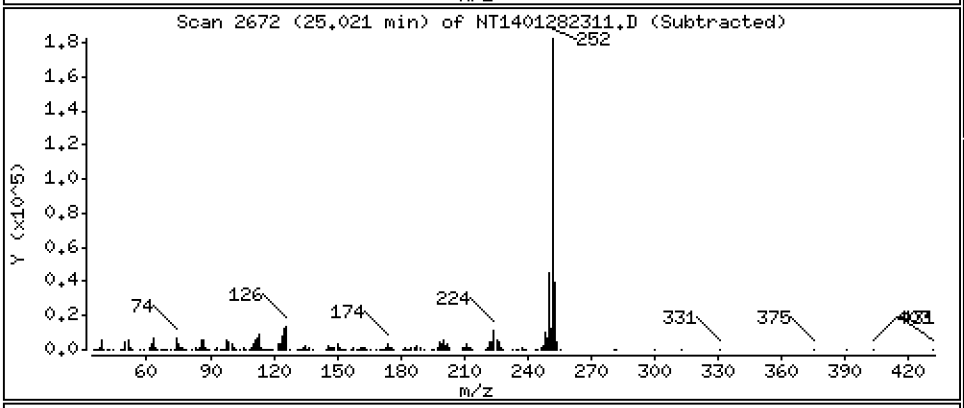
Column phase: ZB-5msi

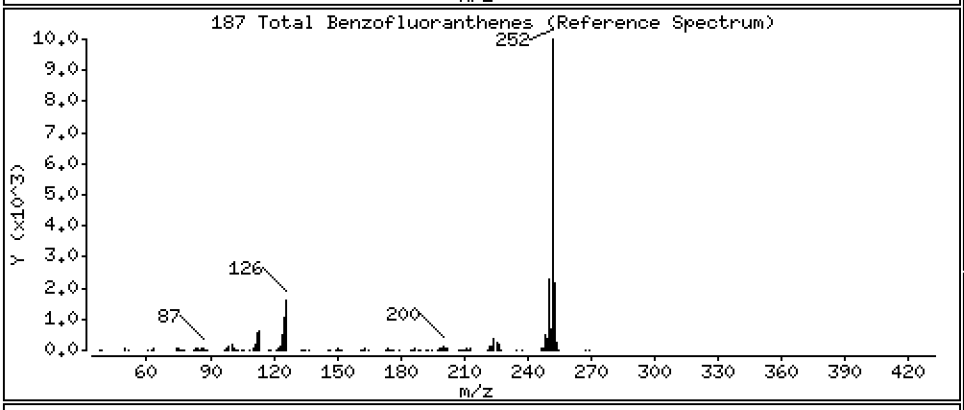
Column diameter: 0.25

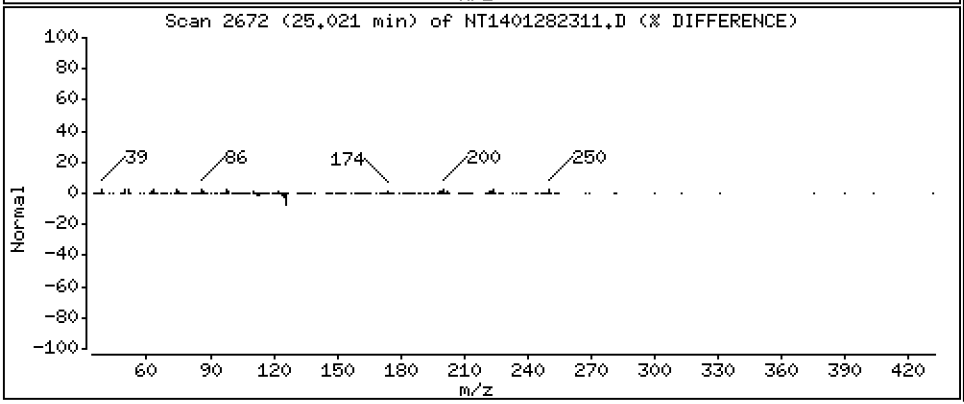
187 Total Benzofluoranthenes

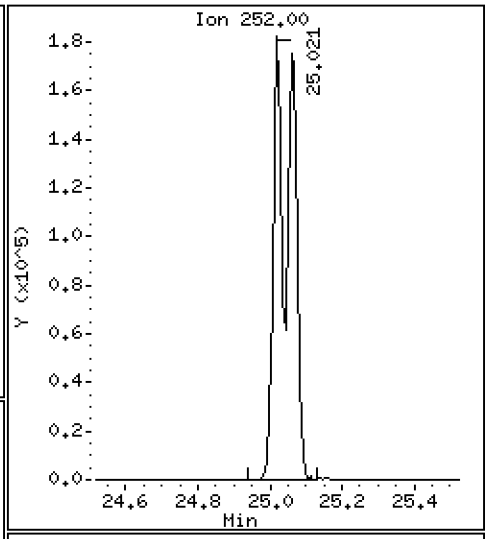
Concentration: 9.093 ug/mL

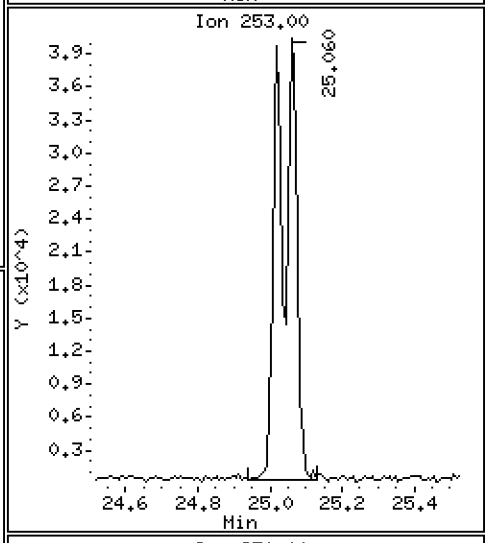


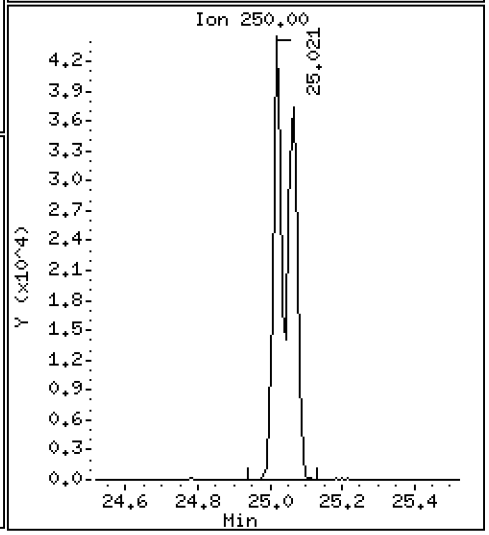












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

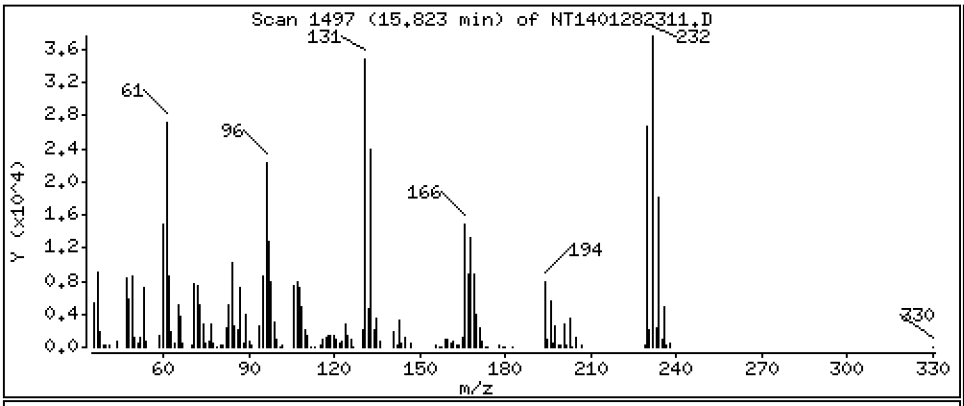
Operator: JGR

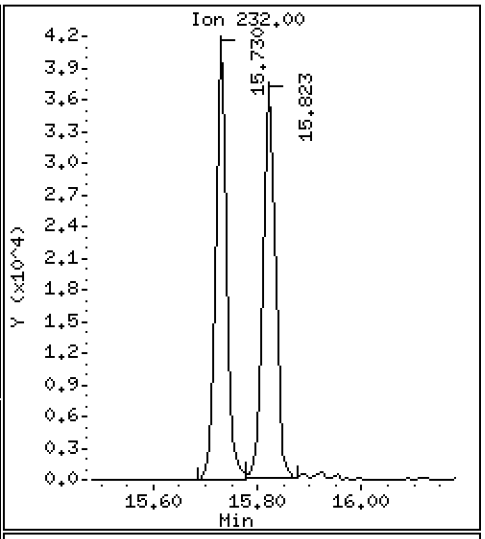
Column phase: ZB-5msi

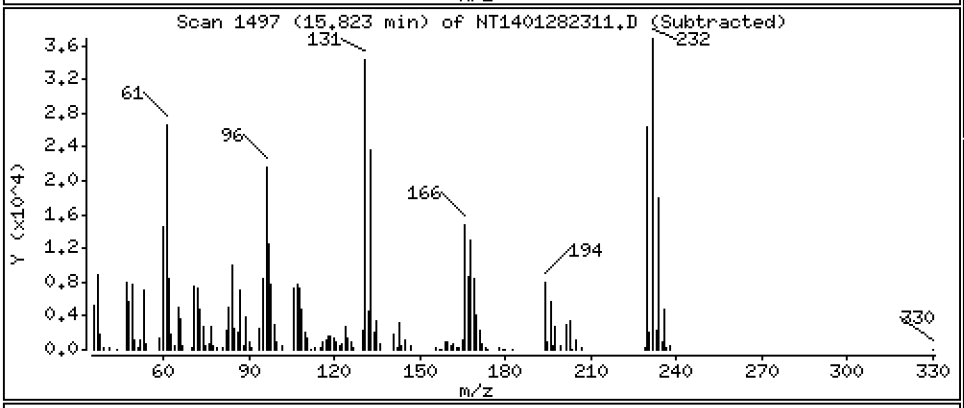
Column diameter: 0.25

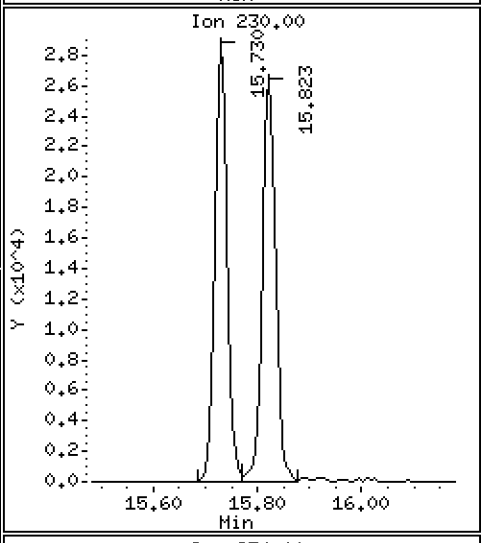
120 2,3,4,6-Tetrachlorophenol

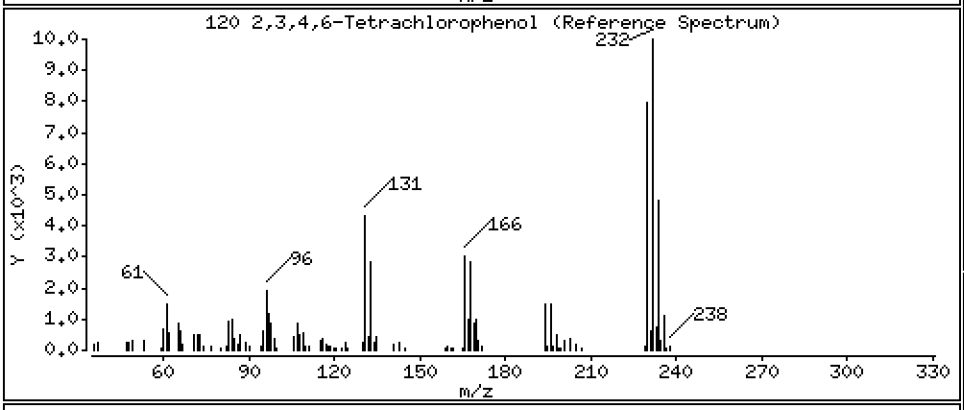
Concentration: 3.160 ug/mL

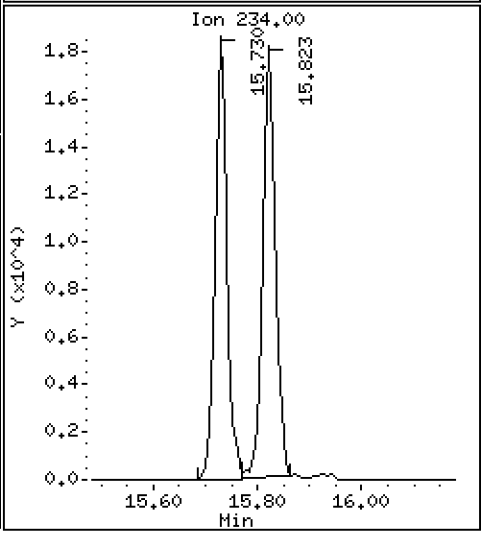


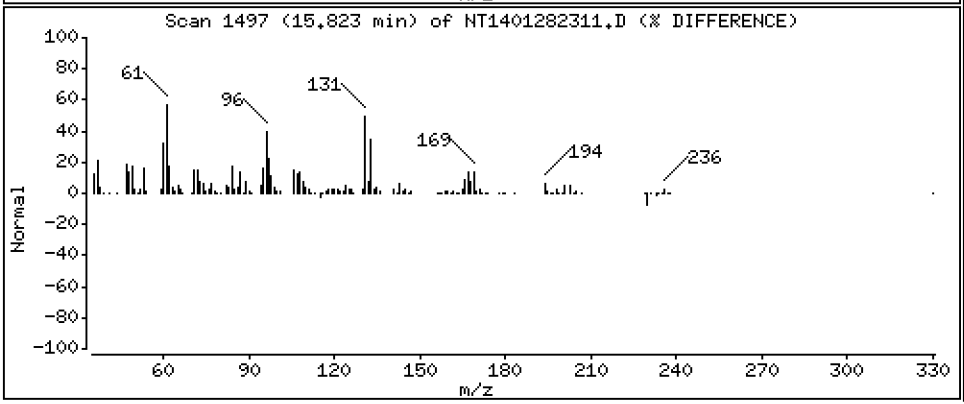












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D
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Inj Date : 28-JAN-2023 21:28 MS Autotune Date: 17-MAY-2011 01:22
Operator : JGR Inst ID: nt14.i
Smp Info : SLA0338-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.736	6.744	(0.750)	142455	8.17640	8.176
$	2 Phenol-d5	99	8.328	8.328	(0.928)	176728	7.72018	7.720
	3 Phenol	94	8.351	8.351	(0.930)	107396	3.82486	3.825
$	5 2-Chlorophenol-d4	132	8.606	8.614	(0.959)	166820	7.53435	7.534
	4 Bis(2-Chloroethyl)ether	93	8.521	8.529	(0.949)	85917	5.32016	5.320
	6 2-Chlorophenol	128	8.637	8.637	(0.962)	96403	4.13501	4.135
	7 1,3-Dichlorobenzene	146	8.915	8.915	(0.993)	121707	4.67506	4.675
*	8 1,4-Dichlorobenzene-d4	152	8.977	8.978	(1.000)	64868	4.00000	
	9 1,4-Dichlorobenzene	146	9.009	9.009	(1.003)	122324	4.65035	4.650
$	10 1,2-Dichlorobenzene-d4	152	9.342	9.342	(1.041)	74985	4.77182	4.772
	12 1,2-Dichlorobenzene	146	9.366	9.366	(1.043)	112526	4.35068	4.351
	11 Benzyl alcohol	108	9.249	9.249	(1.030)	61126	4.41562	4.416
	14 2,2'-oxybis(1-Chloropropane)	121	9.560	9.560	(1.065)	36046	4.97722	4.977
	13 2-Methylphenol	108	9.474	9.474	(1.055)	71205	3.30269	3.303
	17 Hexachloroethane	117	9.963	9.963	(1.110)	71298	4.49319	4.493
	16 N-Nitroso-di-n-propylamine	70	9.816	9.808	(1.093)	90956	4.83477	4.835
	15 4-Methylphenol	108	9.746	9.746	(1.086)	83388	3.42678	3.427
$	18 Nitrobenzene-d5	82	10.072	10.072	(0.878)	179644	5.28207	5.282
	19 Nitrobenzene	77	10.111	10.111	(0.881)	162836	4.91275	4.913
	20 Isophorone	82	10.561	10.561	(0.920)	247148	6.59284	6.593
	21 2-Nitrophenol	139	10.739	10.747	(0.936)	52653	4.13380	4.134
	22 2,4-Dimethylphenol	107	10.793	10.794	(0.941)	101570	3.03442	3.034
	23 Bis(2-Chloroethoxy)methane	93	10.995	11.003	(0.958)	103282	5.45389	5.454
	24 Benzoic acid	105	10.949	10.887	(0.954)	134100	6.66881	6.669
	25 2,4-Dichlorophenol	162	11.197	11.197	(0.976)	82473	3.99695	3.997
	26 1,2,4-Trichlorobenzene	180	11.390	11.390	(0.993)	104913	4.47625	4.476
*	27 Naphthalene-d8	136	11.475	11.475	(1.000)	237703	4.00000	
	28 Naphthalene	128	11.514	11.514	(1.003)	287523	4.80744	4.807
	29 4-Chloroaniline	127	11.645	11.645	(1.015)	89314	3.54401	3.544
	30 Hexachlorobutadiene	225	11.884	11.892	(1.036)	86503	4.67468	4.675
	31 4-Chloro-3-methylphenol	107	12.604	12.604	(1.098)	110572	3.94303	3.943
	32 2-Methylnaphthalene	142	12.914	12.914	(1.125)	212414	4.35655	4.357
	33 Hexachlorocyclopentadiene	237	13.386	13.386	(0.887)	94894	4.63684	4.637
	34 2,4,6-Trichlorophenol	196	13.533	13.533	(0.896)	66467	3.71023	3.710

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	35	2,4,5-Trichlorophenol	196	13.602	13.610	(0.901)	71753	3.61565	3.616
$	36	2-Fluorobiphenyl	172	13.703	13.703	(0.908)	260445	5.01878	5.019
	37	2-Chloronaphthalene	162	13.912	13.912	(0.922)	203080	4.70365	4.704
	38	2-Nitroaniline	65	14.160	14.160	(0.938)	114202	4.50892	4.509
	39	Dimethylphthalate	163	14.608	14.601	(0.968)	272366	4.87524	4.875
	40	Acenaphthylene	152	14.779	14.779	(0.979)	317280	4.69456	4.695
	41	2,6-Dinitrotoluene	165	14.740	14.740	(0.976)	59026	4.60306	4.603
*	42	Acenaphthene-d10	164	15.096	15.096	(1.000)	145815	4.00000	
	43	3-Nitroaniline	138	15.019	15.011	(0.995)	55408	4.47552	4.476
	44	Acenaphthene	153	15.166	15.158	(1.005)	220685	4.82742	4.827
	45	2,4-Dinitrophenol	184	15.227	15.227	(1.009)	26546	2.10608	2.106
	46	Dibenzofuran	168	15.490	15.490	(1.026)	301624	4.55314	4.553
	47	4-Nitrophenol	109	15.328	15.328	(1.015)	93172	3.65684	3.657
	48	2,4-Dinitrotoluene	165	15.544	15.544	(1.030)	76743	4.31208	4.312
	50	Diethylphthalate	149	16.062	16.062	(1.064)	402237	4.95468	4.955
	49	Fluorene	166	16.201	16.202	(1.073)	405552	4.72437	4.724
	51	4-Chlorophenyl-phenylether	204	16.194	16.202	(1.073)	209803	4.48351	4.484
	52	4-Nitroaniline	138	16.279	16.271	(1.078)	66232	4.50523	4.505
	53	4,6-Dinitro-2-methylphenol	198	16.379	16.379	(0.903)	57690	3.42165	3.422
	54	N-Nitrosodiphenylamine	169	16.441	16.441	(0.907)	218170	4.52786	4.528
$	55	2,4,6-Tribromophenol	330	16.734	16.741	(1.108)	96224	7.86038	7.860
	56	4-Bromophenyl-phenylether	248	17.204	17.204	(0.949)	102800	4.57711	4.577
	57	Hexachlorobenzene	284	17.513	17.513	(0.966)	114130	4.45289	4.453
	58	Pentachlorophenol	266	17.869	17.869	(0.985)	48355	3.43887	3.439
*	59	Phenanthrene-d10	188	18.132	18.132	(1.000)	284750	4.00000	
	60	Phenanthrene	178	18.179	18.179	(1.003)	349868	4.55376	4.554
	61	Anthracene	178	18.271	18.279	(1.008)	298207	4.06199	4.062
	62	Carbazole	167	18.596	18.604	(1.026)	295557	4.38432	4.384
	63	Di-n-butylphthalate	149	19.409	19.409	(1.070)	517154	4.94804	4.948
	64	Fluoranthene	202	20.569	20.569	(0.887)	410997	4.75515	4.755
	65	Pyrene	202	20.995	20.995	(0.906)	403045	4.70186	4.702
$	66	Terphenyl-d14	244	21.281	21.289	(0.918)	360406	5.00371	5.004
	67	Butylbenzylphthalate	149	22.210	22.210	(0.958)	227643	4.84394	4.844
	68	Benzo(a)anthracene	228	23.155	23.155	(0.999)	363082	4.57076	4.571
*	69	Chrysene-d12	240	23.186	23.186	(1.000)	217792	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.116	23.108	(0.997)	296415	8.22577	8.226
	71	Chrysene	228	23.232	23.232	(1.002)	351735	4.46577	4.466
	72	bis(2-Ethylhexyl)phthalate	149	23.240	23.240	(0.960)	327626	4.82272	4.823
*	134	Di-n-octylphthalate-d4	153	24.215	24.215	(1.000)	398967	4.00000	
	73	Di-n-octylphthalate	149	24.223	24.231	(1.000)	487047	4.83491	4.835
	74	Benzo(b)fluoranthene	252	25.021	25.021	(0.971)	328122	4.73403	4.734
	75	Benzo(k)fluoranthene	252	25.059	25.059	(0.972)	311305	4.38699	4.387
	76	Benzo(a)pyrene	252	25.663	25.648	(0.996)	275946	4.65954	4.660
*	77	Perylene-d12	264	25.772	25.772	(1.000)	197244	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.367	28.367	(1.101)	346858	4.63593	4.636
	79	Dibenzo(a,h)anthracene	278	28.375	28.367	(1.101)	287062	4.45522	4.455
	80	Benzo(g,h,i)perylene	276	29.128	29.105	(1.130)	258055	4.65739	4.657
	90	N-Nitrosodimethylamine	74	4.550	4.558	(0.507)	51870	4.93189	4.932
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	20.801	20.801	(0.897)	299598	8.13487	8.135
	103	Pyridine	79	4.574	4.597	(0.509)	82576	2.72310	2.723
	105	1-methylnaphthalene	142	13.138	13.138	(1.145)	207286	4.37784	4.378
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.518	16.518	(1.094)	561058	4.80071	4.801
	187	Total Benzofluoranthenes	252	25.021	25.021	(0.971)	613592	9.09346	9.093

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	15.823	15.830	(1.048)	60195	3.16050	3.160

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282311.D
Lab Smp Id: SLA0338-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	64868	22.25
27 Naphthalene-d8	202004	101002	404008	237703	17.67
42 Acenaphthene-d10	124451	62226	248902	145815	17.17
59 Phenanthrene-d10	239860	119930	479720	284750	18.72
69 Chrysene-d12	191274	95637	382548	217792	13.86
134 Di-n-octylphthala	341876	170938	683752	398967	16.70
77 Perylene-d12	162367	81184	324734	197244	21.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.98	-0.09
27 Naphthalene-d8	11.48	10.98	11.98	11.48	0.00
42 Acenaphthene-d10	15.10	14.60	15.60	15.10	-0.05
59 Phenanthrene-d10	18.14	17.64	18.64	18.13	-0.04
69 Chrysene-d12	23.19	22.69	23.69	23.19	-0.03
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	-0.03
77 Perylene-d12	25.77	25.27	26.27	25.77	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282311.D

Lab ID: SLA0338-SCV1
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 21:28

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.949	0.0054	Benzoic acid

RRT check based on Ccal File: NT1401282308.D

On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

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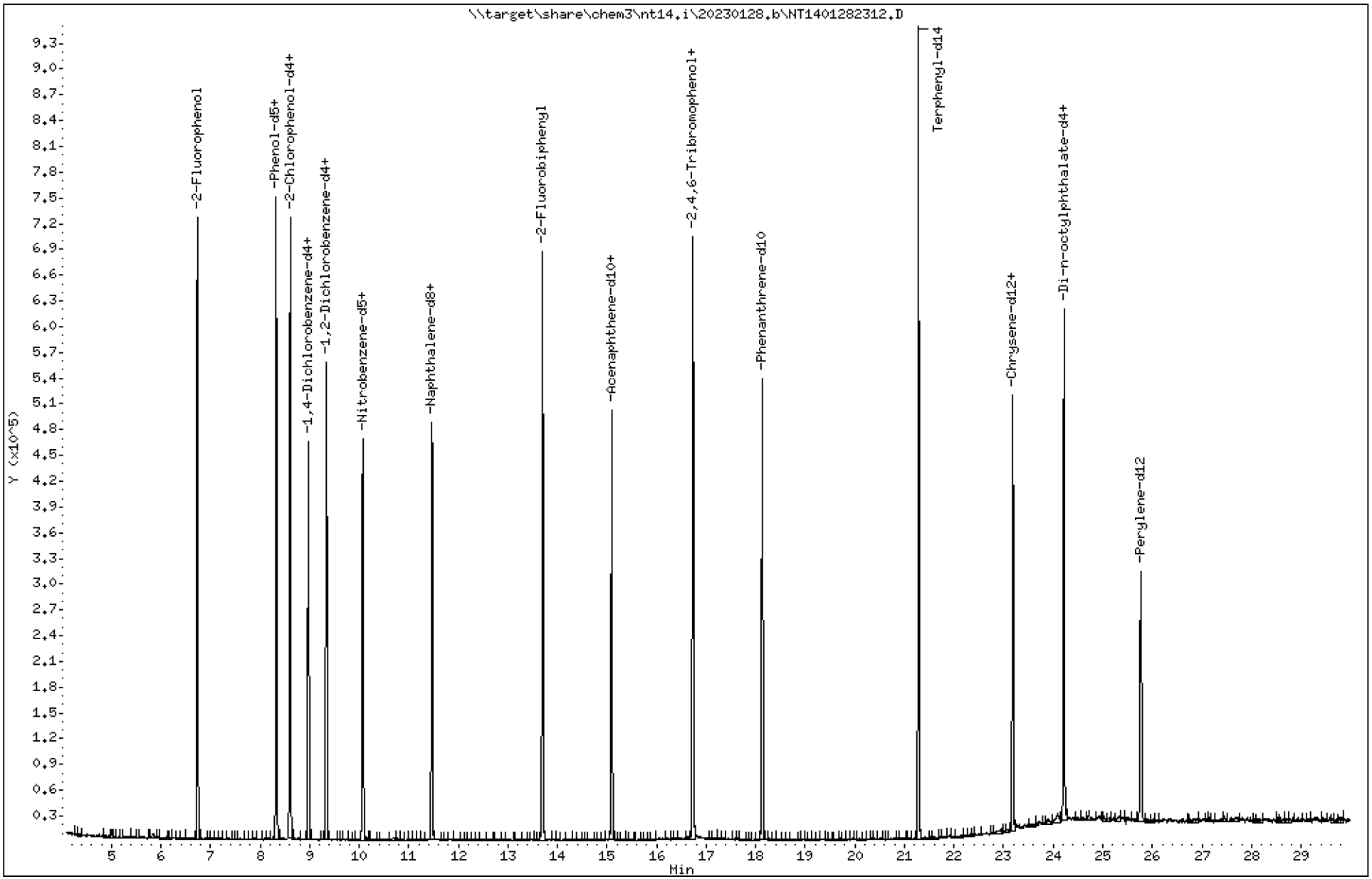
Date : 28-JAN-2023 22:04
Client ID:
Sample Info: SLA0338-ICB1

Instrument: nt14.i
Operator: JGR
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

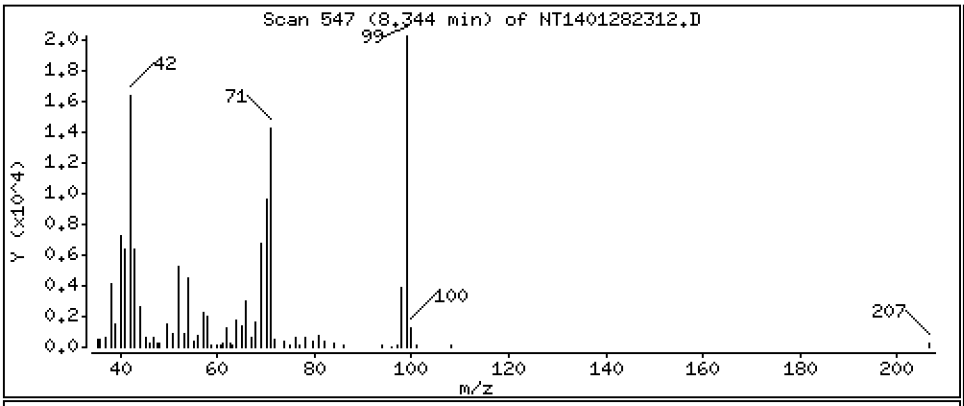
Operator: JGR

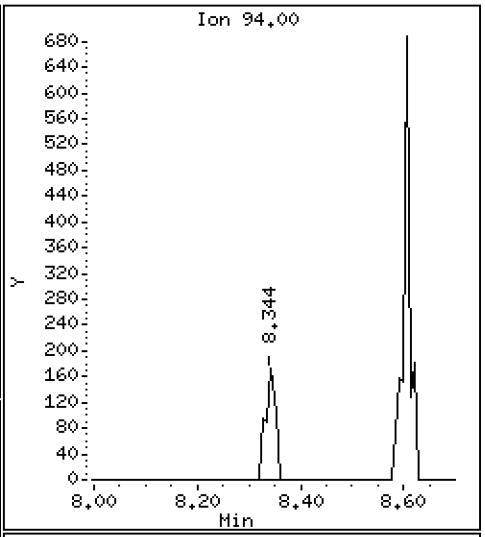
Column phase: ZB-5msi

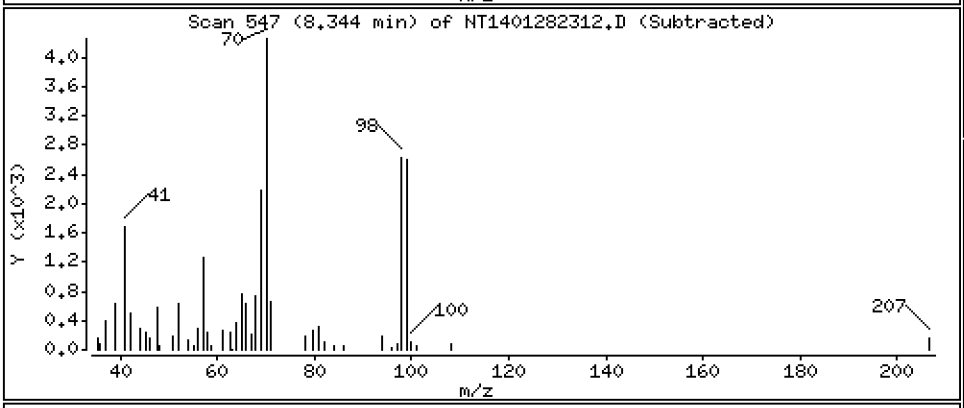
Column diameter: 0.25

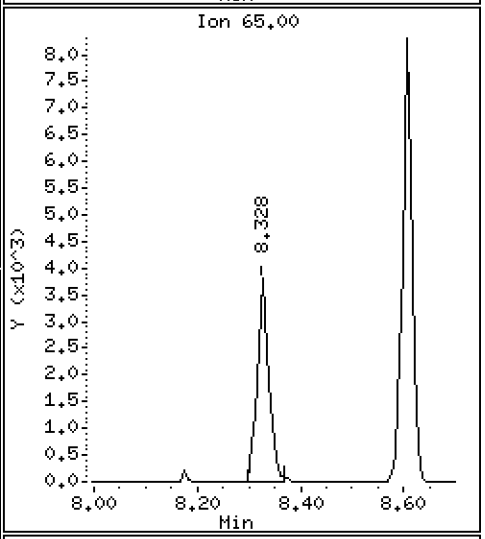
3 Phenol

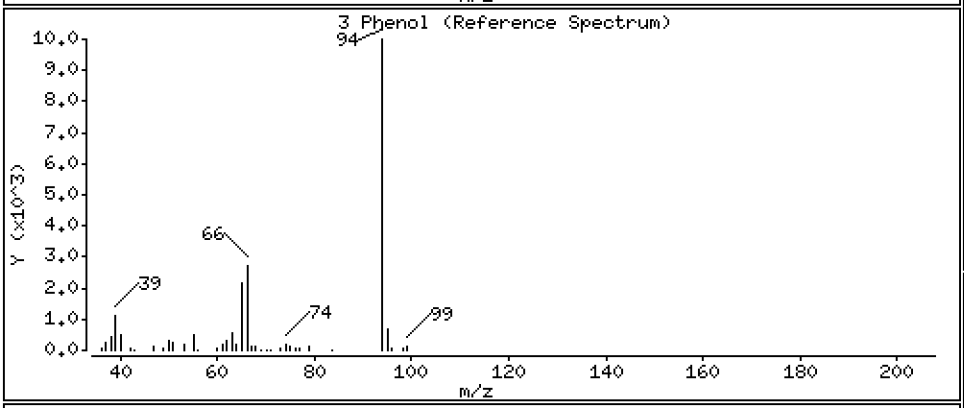
Concentration: 0.008452 ug/mL

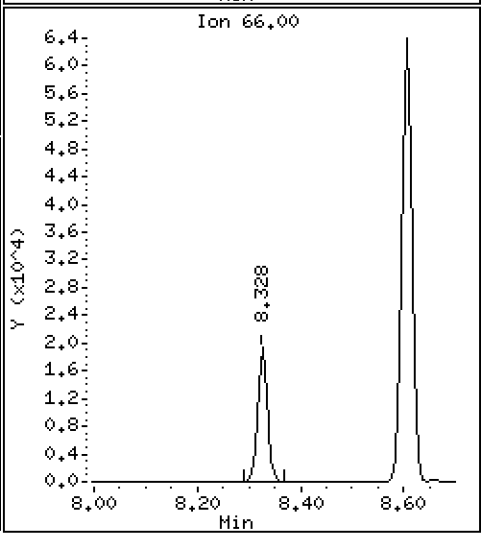


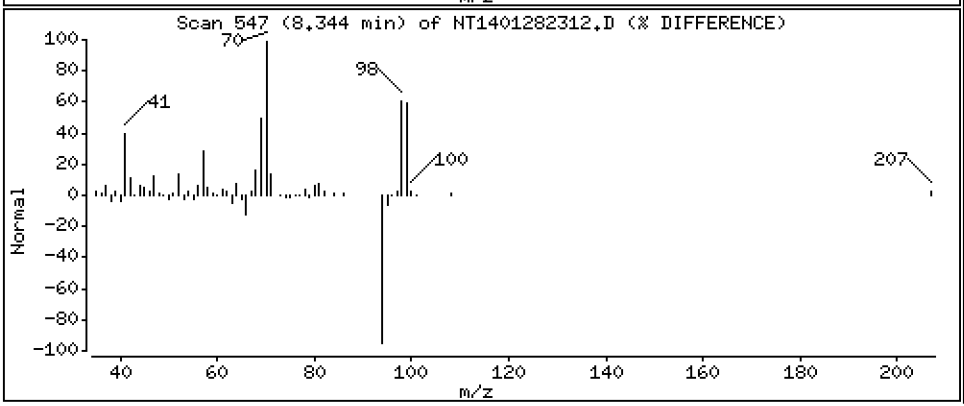












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

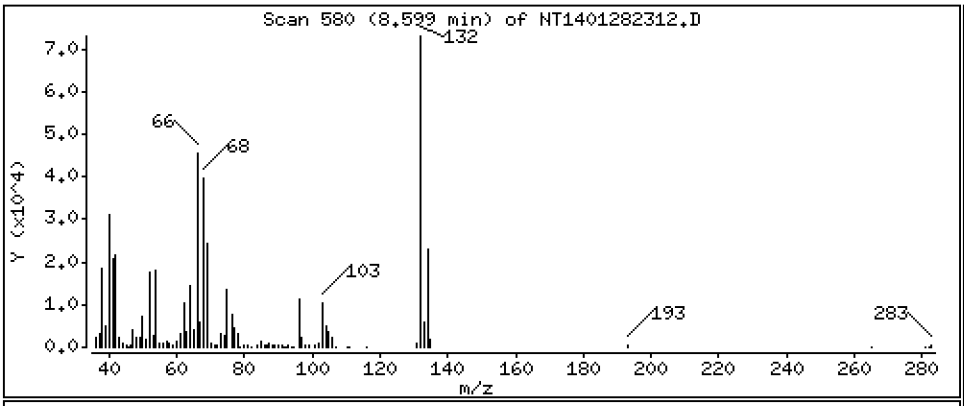
Operator: JGR

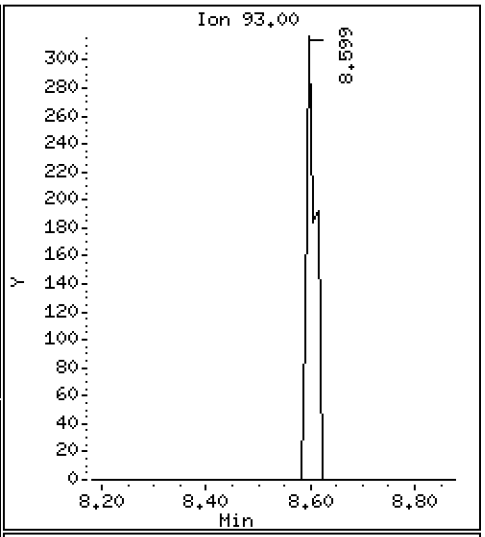
Column phase: ZB-5msi

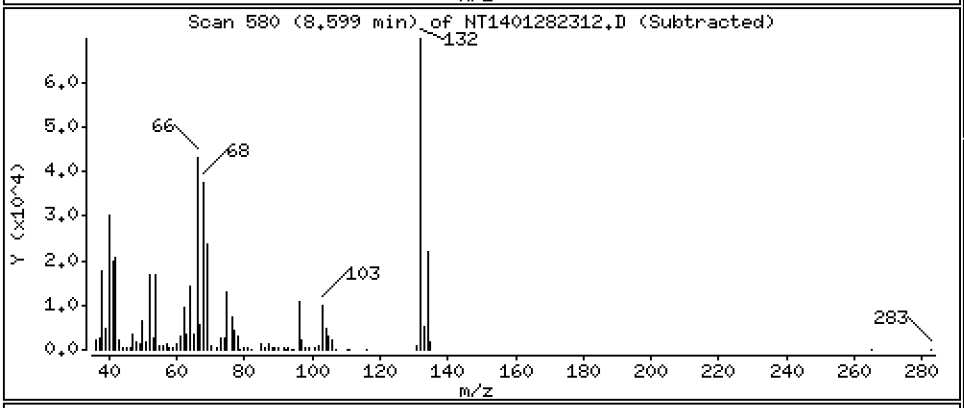
Column diameter: 0.25

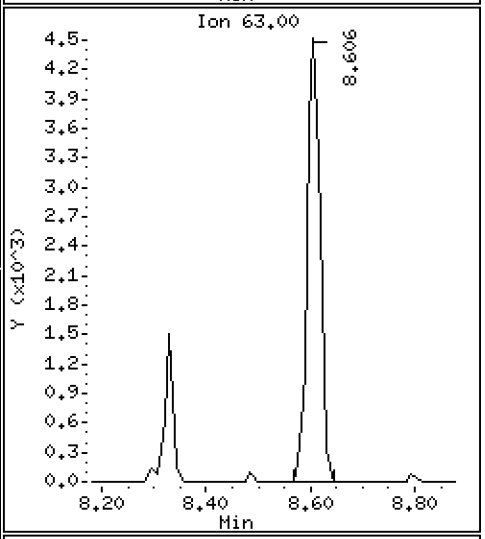
4 Bis(2-Chloroethyl)ether

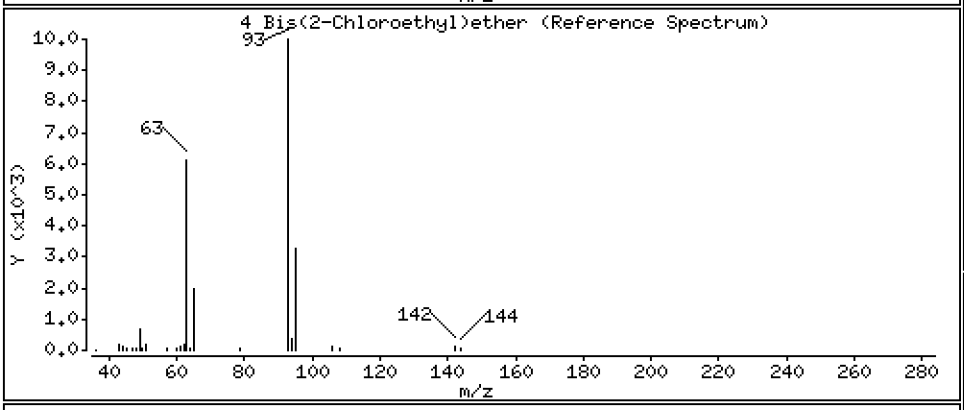
Concentration: 0.02566 ug/mL

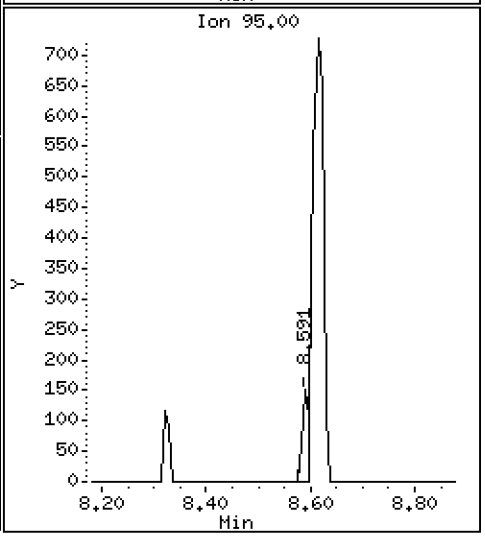


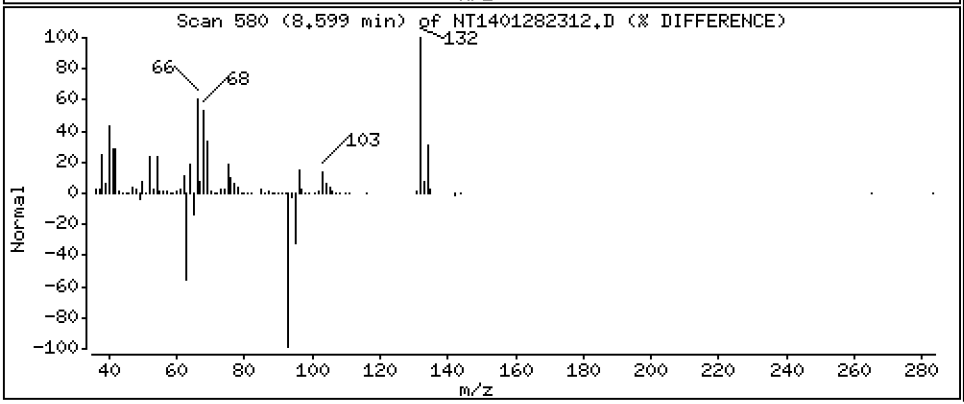












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

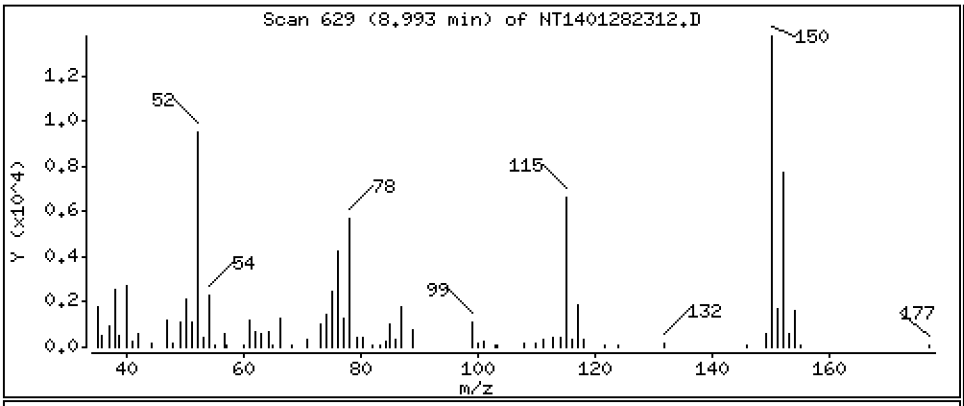
Operator: JGR

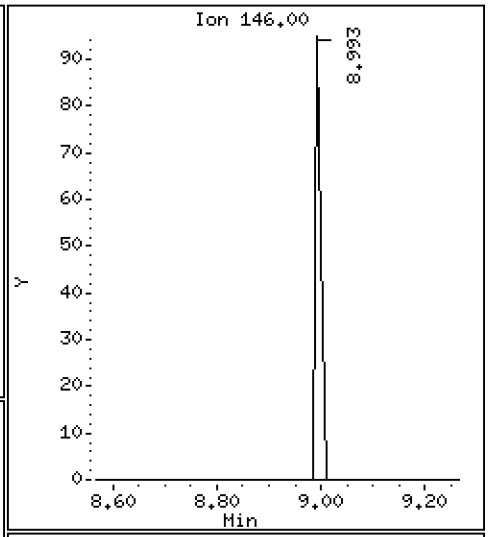
Column phase: ZB-5msi

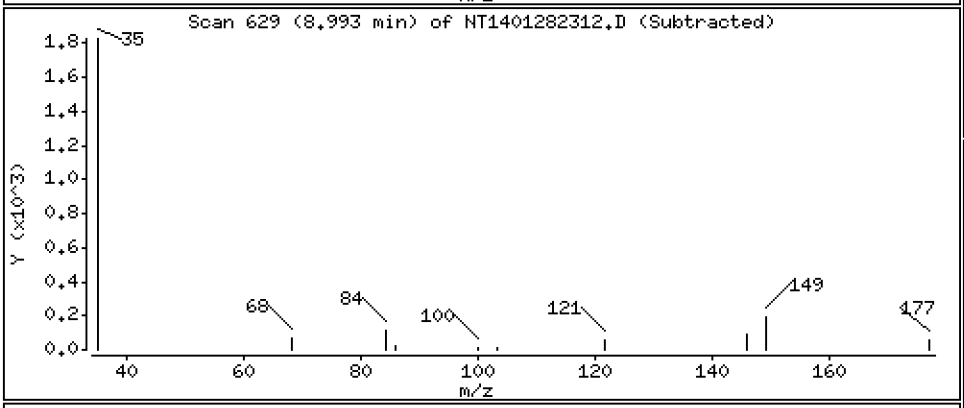
Column diameter: 0.25

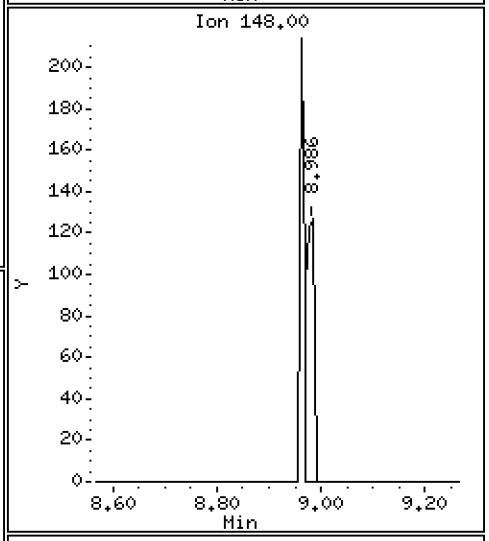
7 1,3-Dichlorobenzene

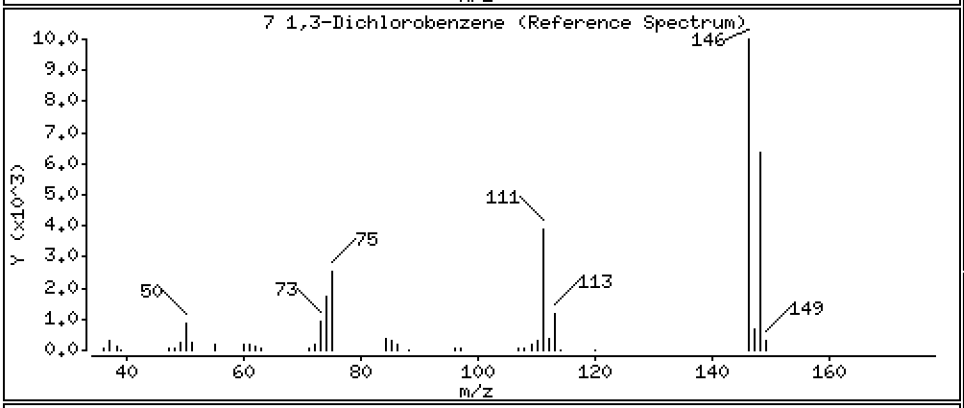
Concentration: 0.002867 ug/mL

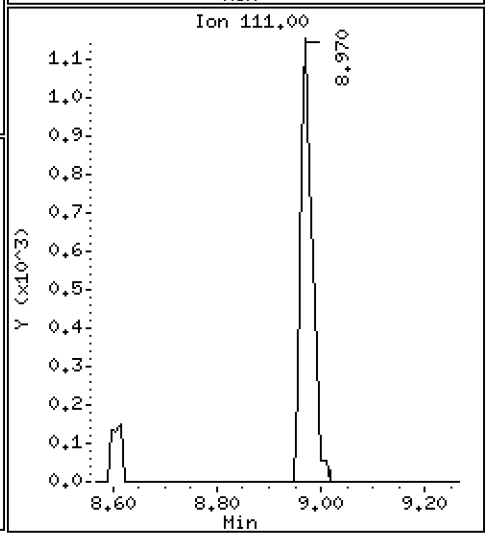


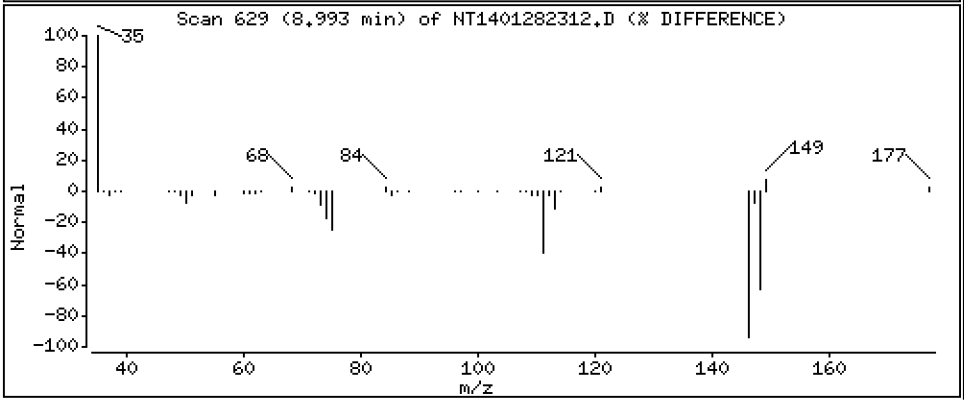












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

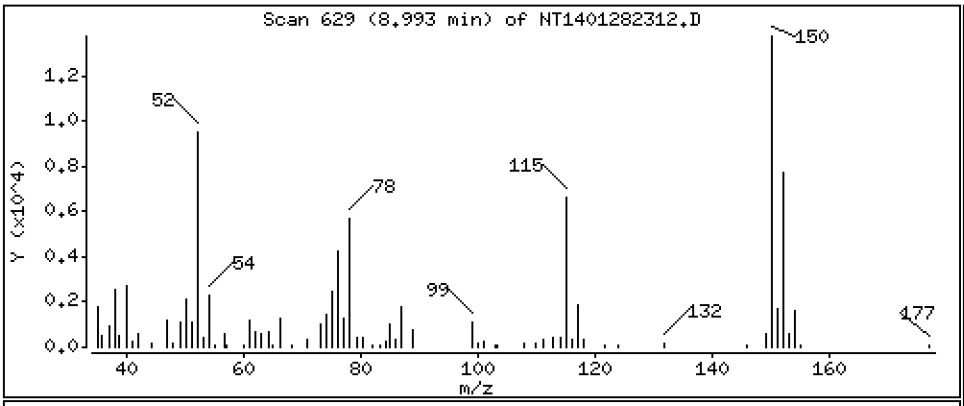
Operator: JGR

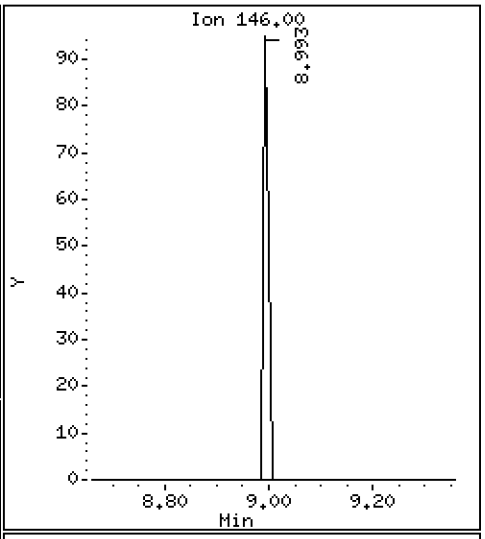
Column phase: ZB-5msi

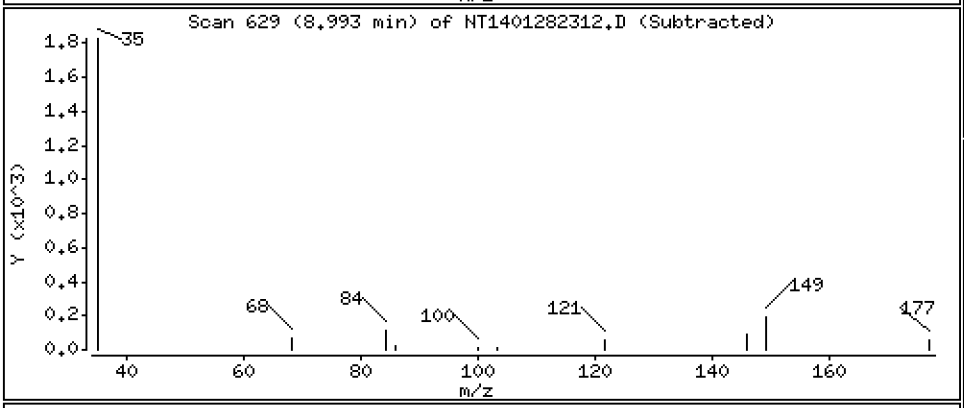
Column diameter: 0.25

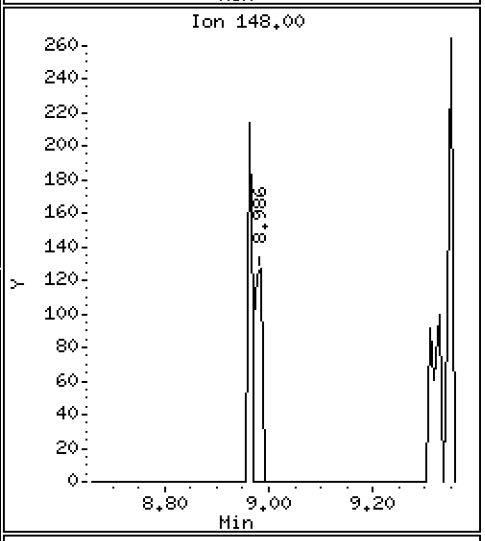
9 1,4-Dichlorobenzene

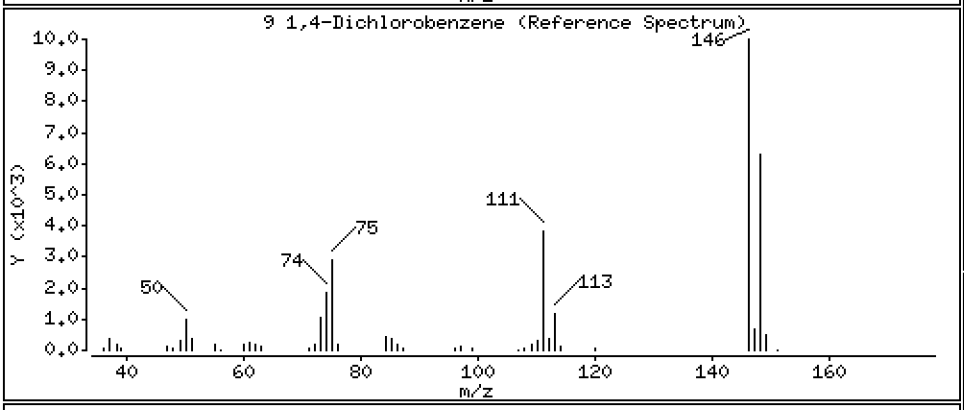
Concentration: 0.002838 ug/mL

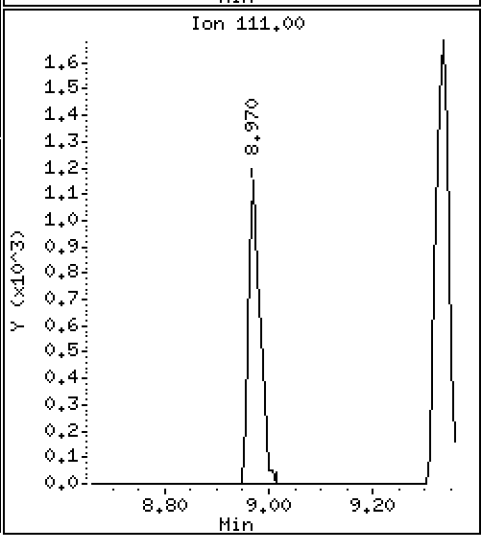


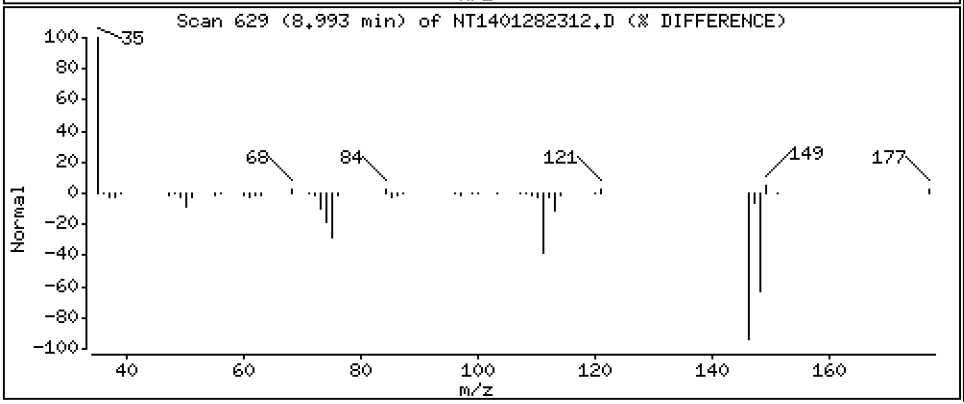












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

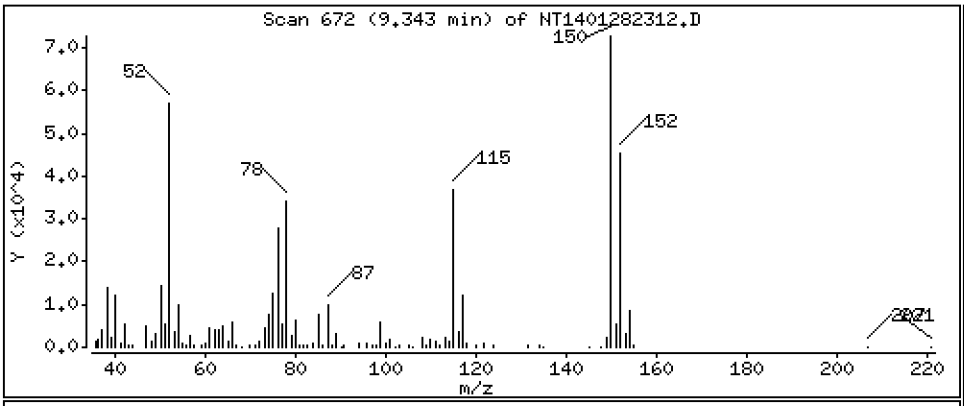
Operator: JGR

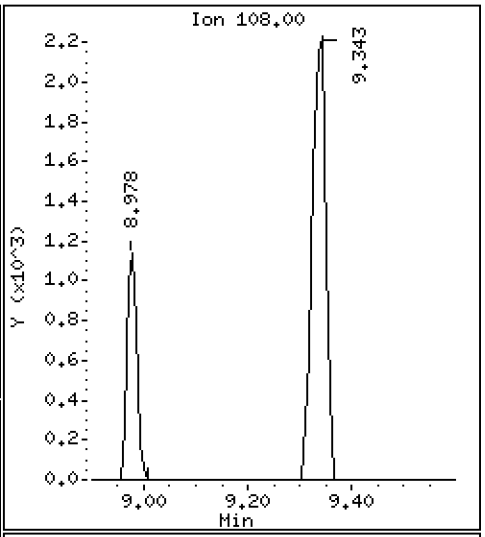
Column phase: ZB-5msi

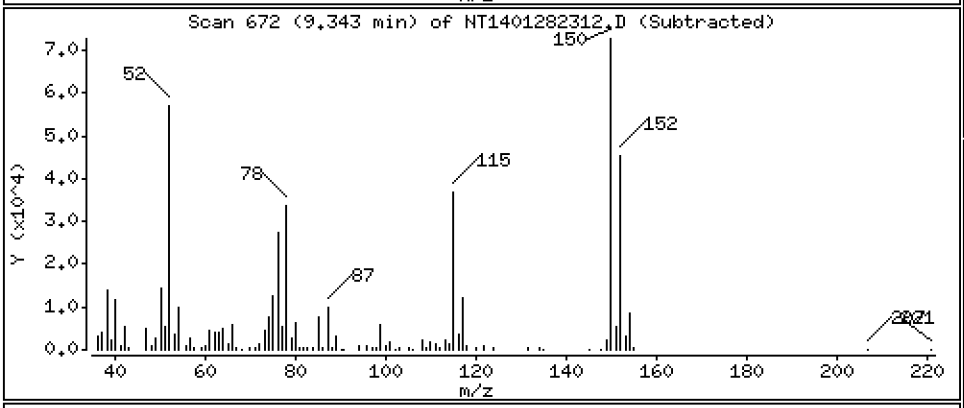
Column diameter: 0.25

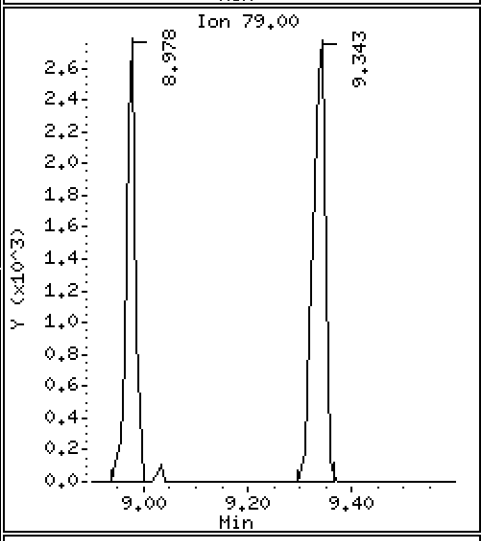
11 Benzyl alcohol

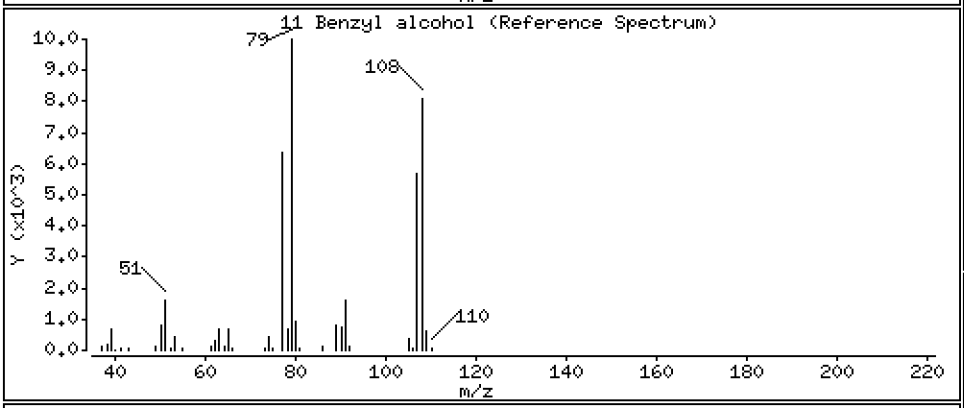
Concentration: 0.3151 ug/mL

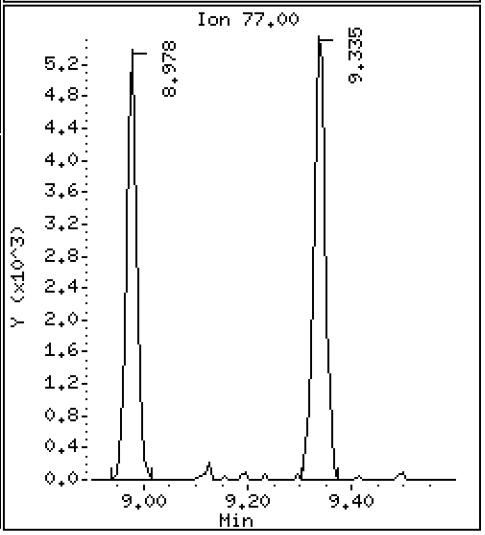


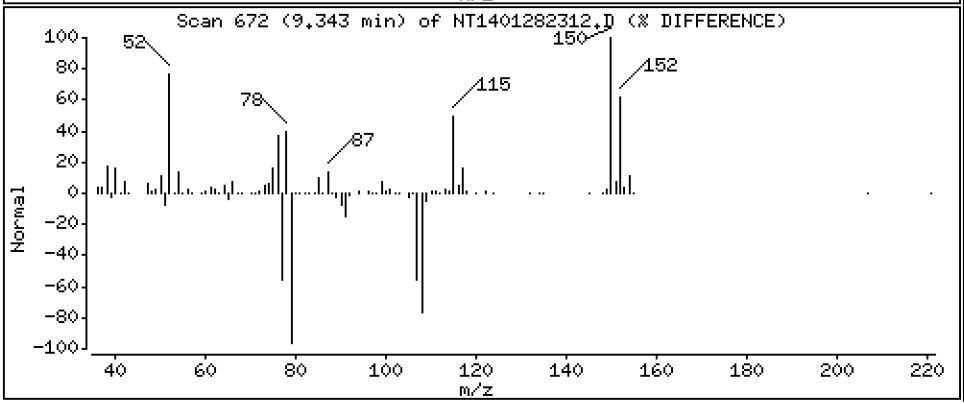












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

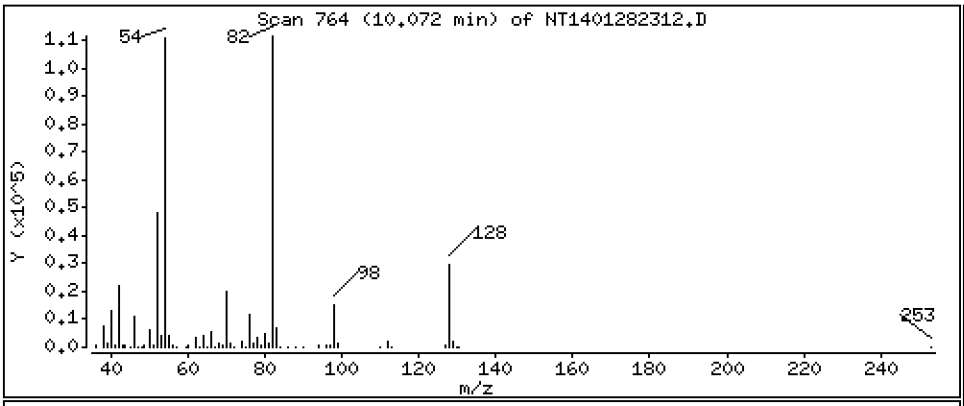
Operator: JGR

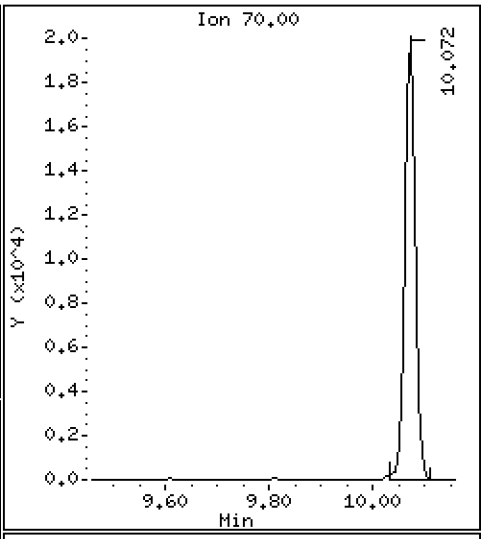
Column phase: ZB-5msi

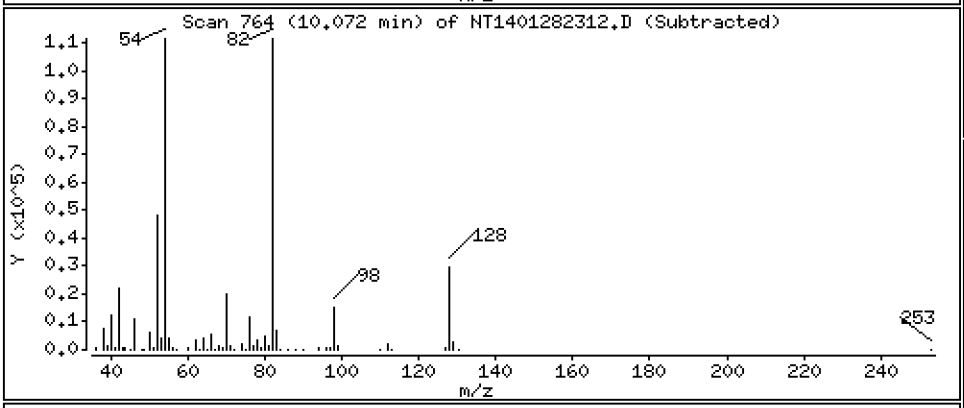
Column diameter: 0.25

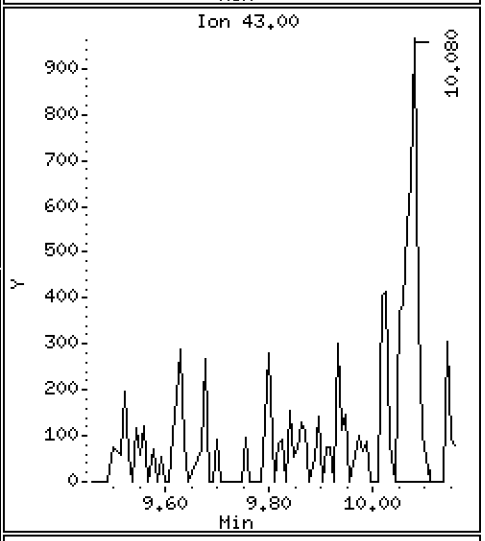
16 N-Nitroso-di-n-propylamine

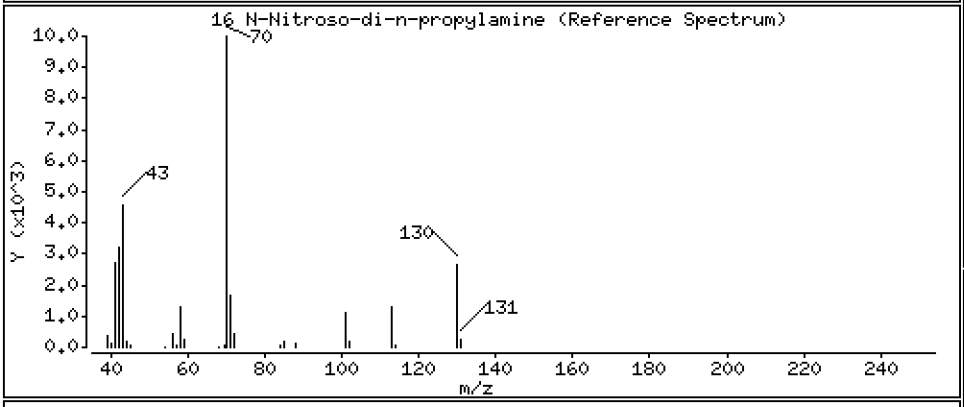
Concentration: 1.749 ug/mL

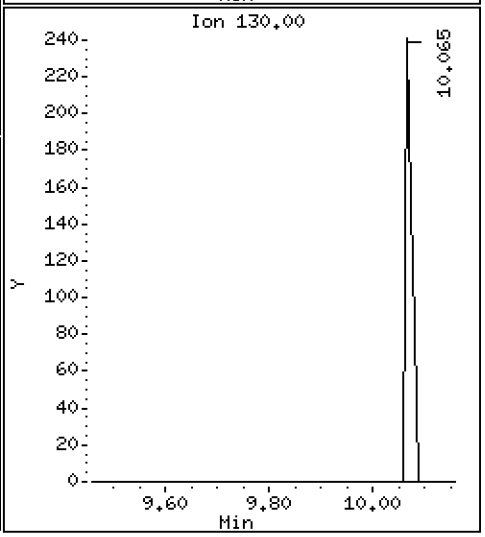


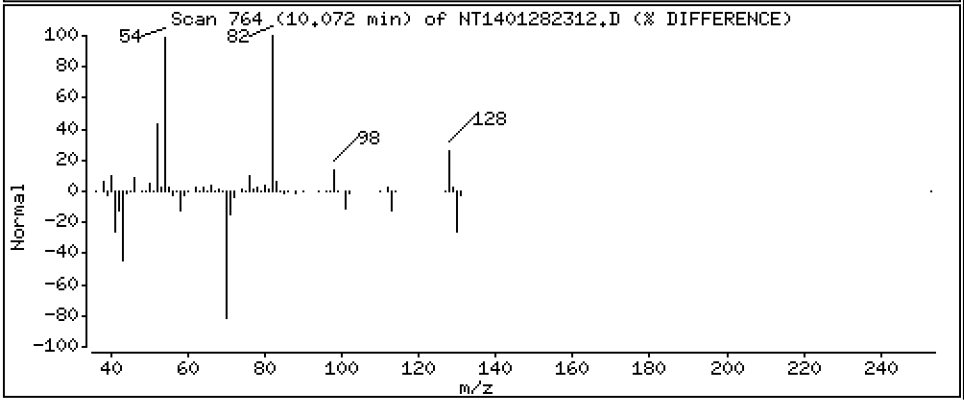












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

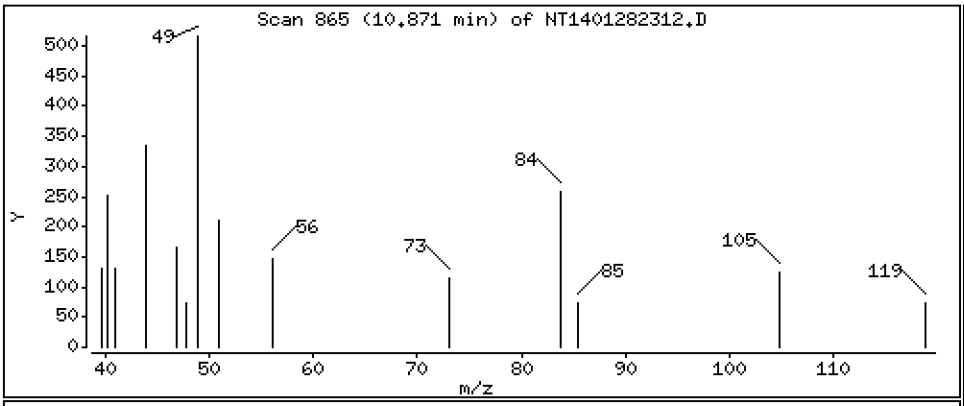
Operator: JGR

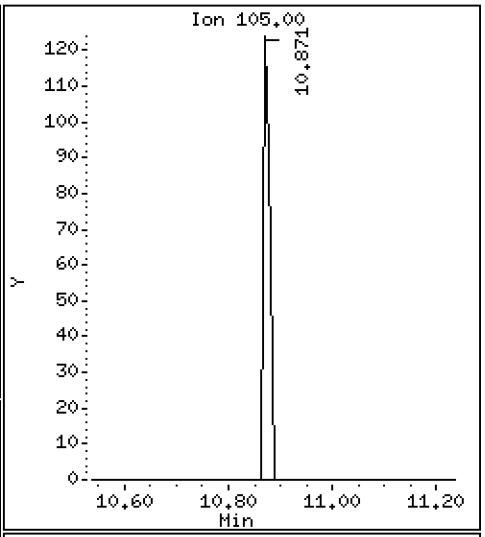
Column phase: ZB-5msi

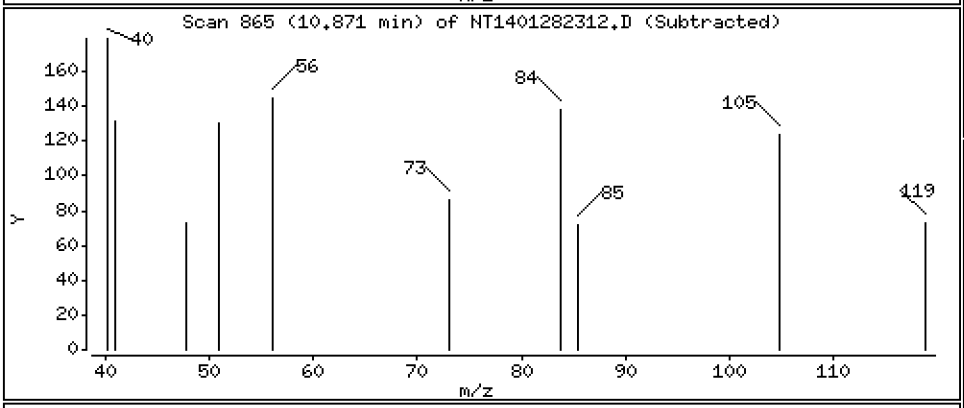
Column diameter: 0.25

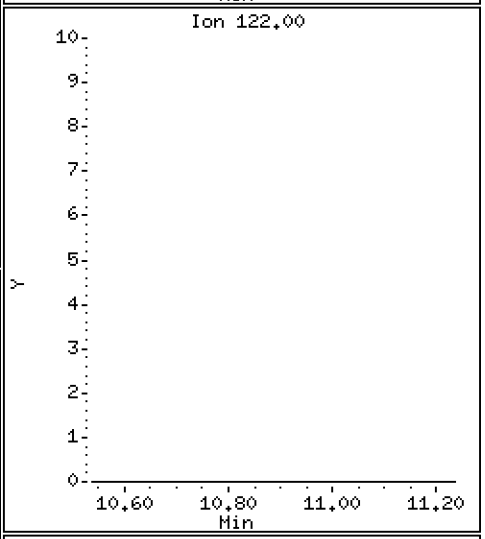
24 Benzoic acid

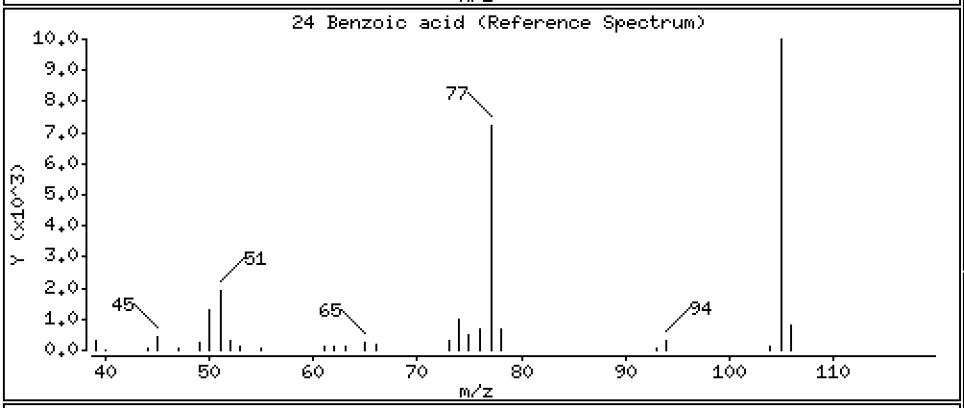
Concentration: 0.005046 ug/mL

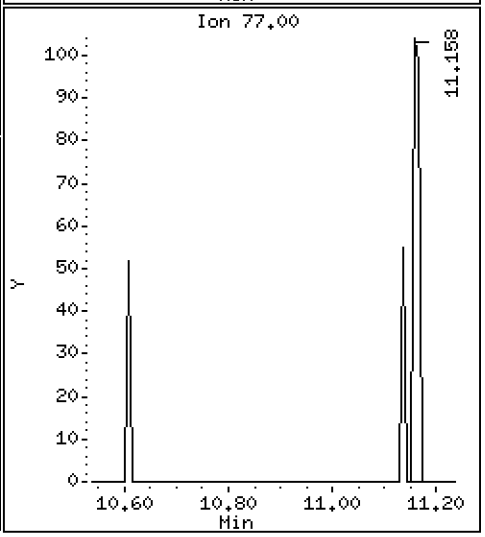


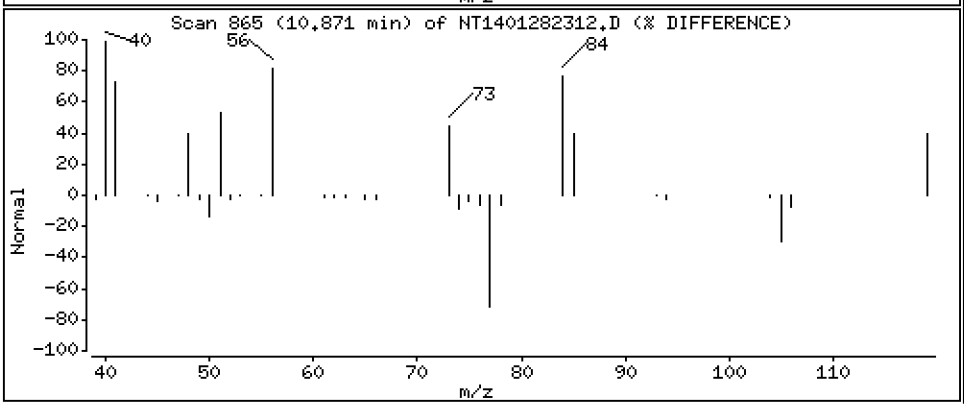












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

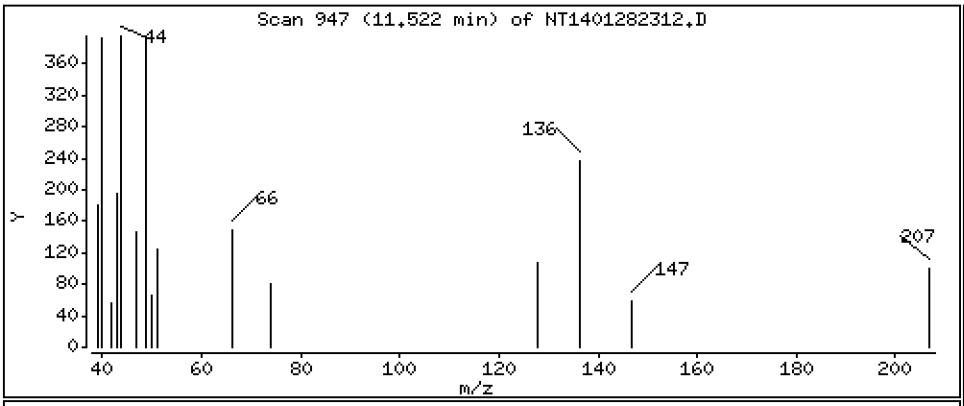
Operator: JGR

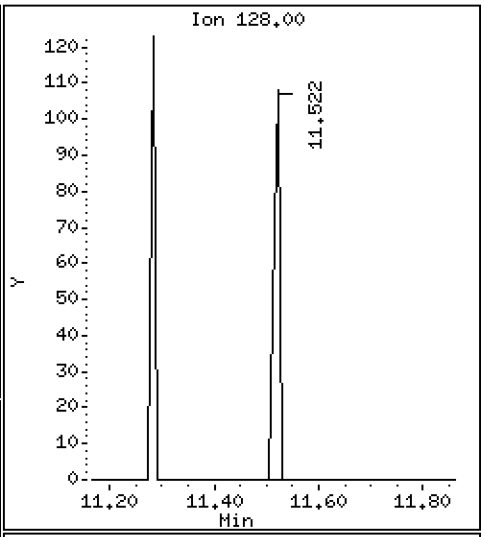
Column phase: ZB-5msi

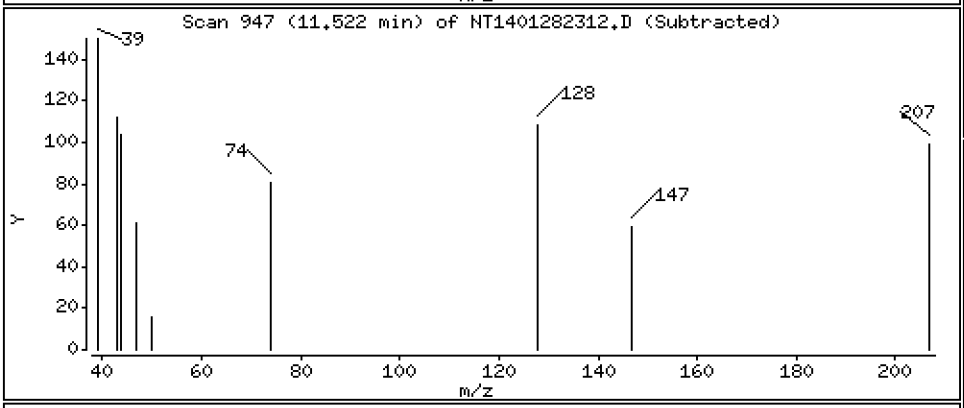
Column diameter: 0.25

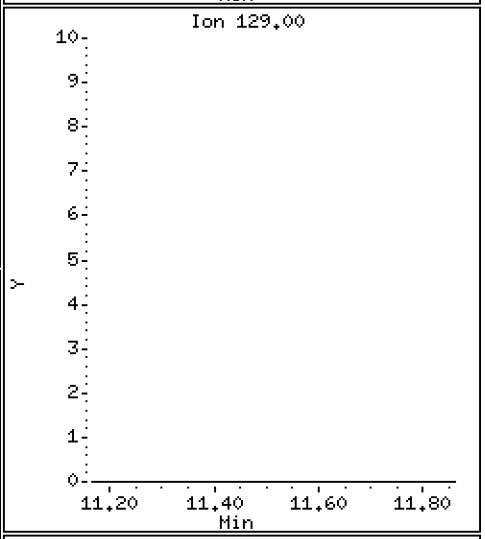
28 Naphthalene

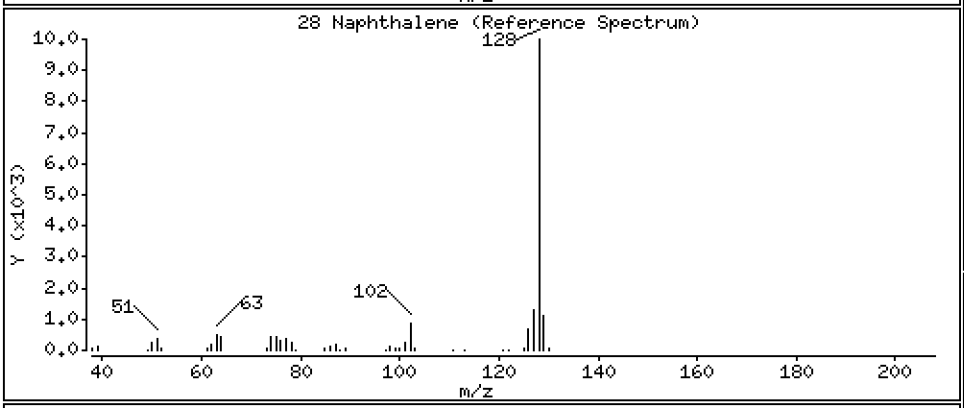
Concentration: 0.001375 ug/mL

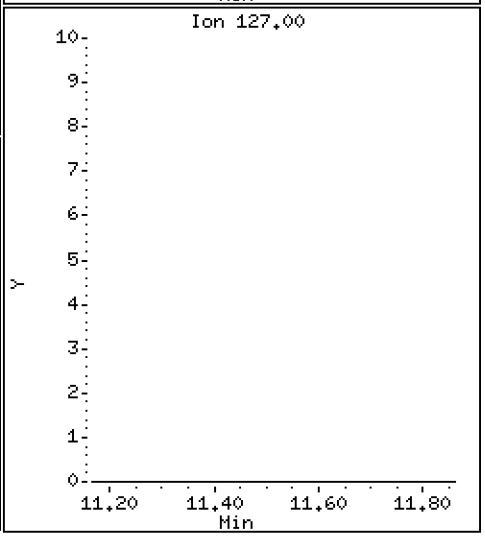


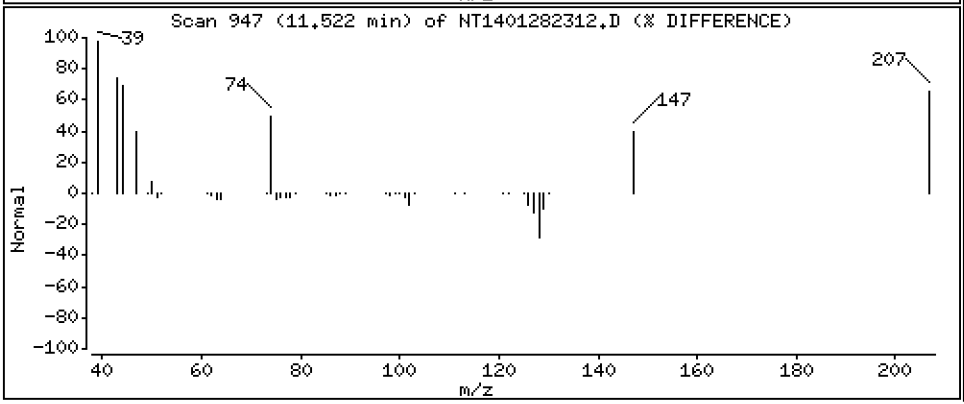












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

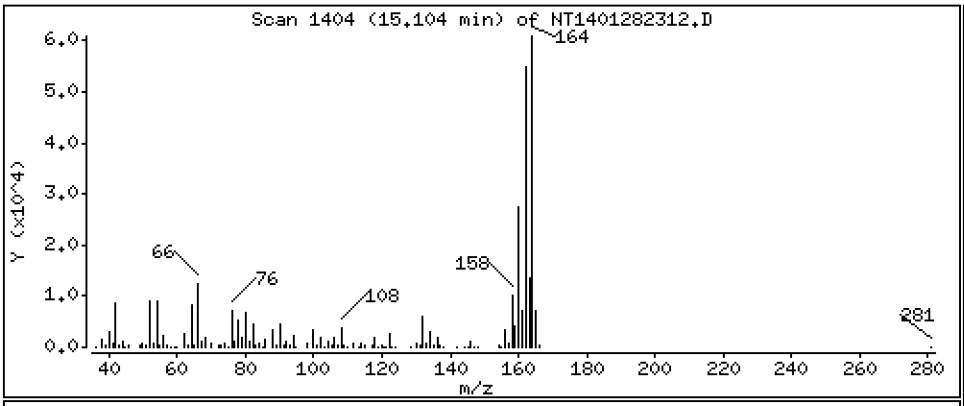
Operator: JGR

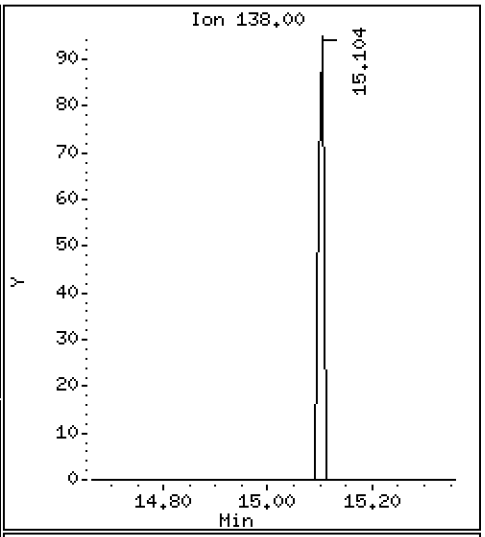
Column phase: ZB-5msi

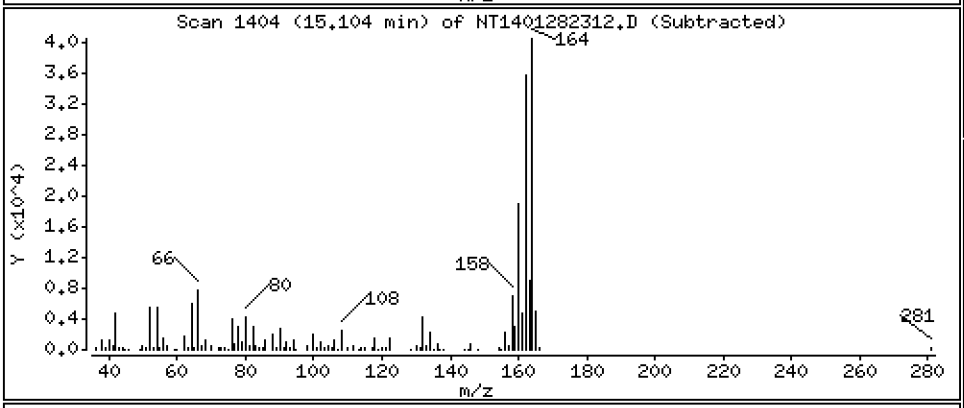
Column diameter: 0.25

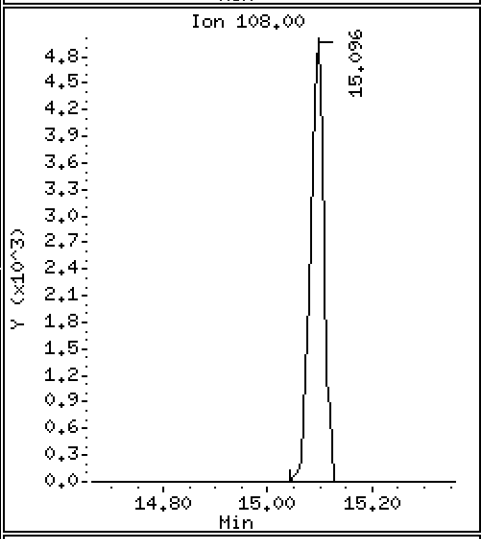
43 3-Nitroaniline

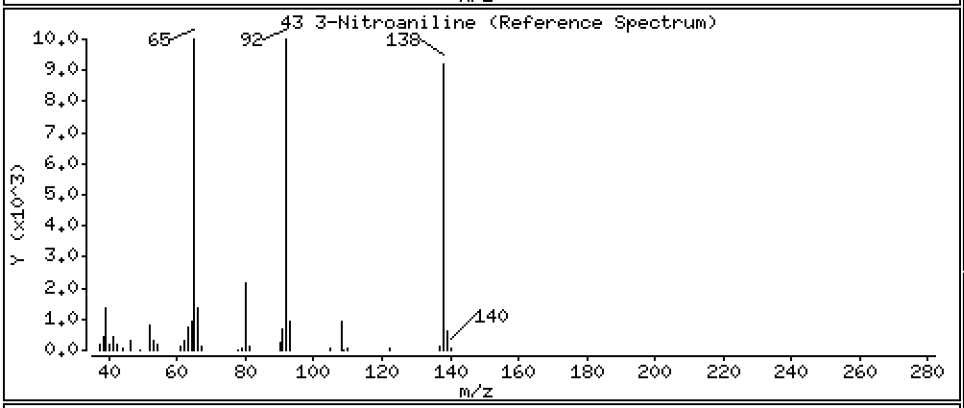
Concentration: 0.006264 ug/mL

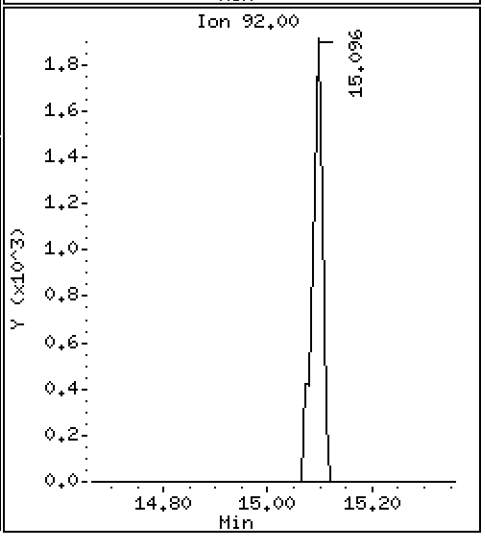


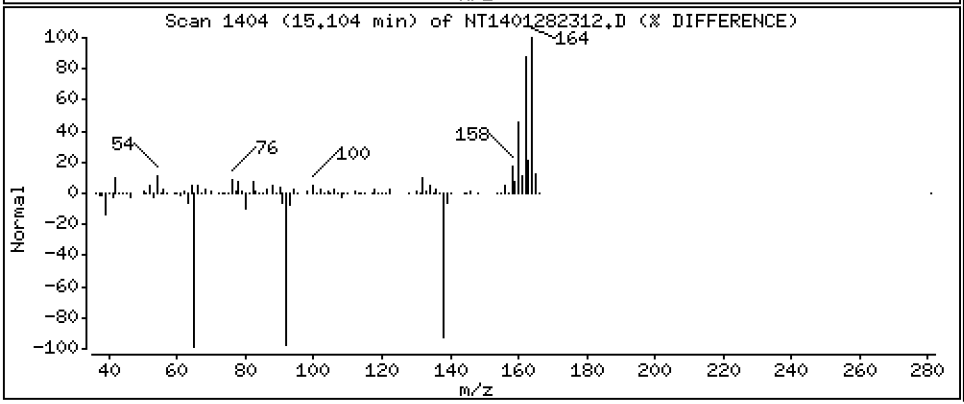












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

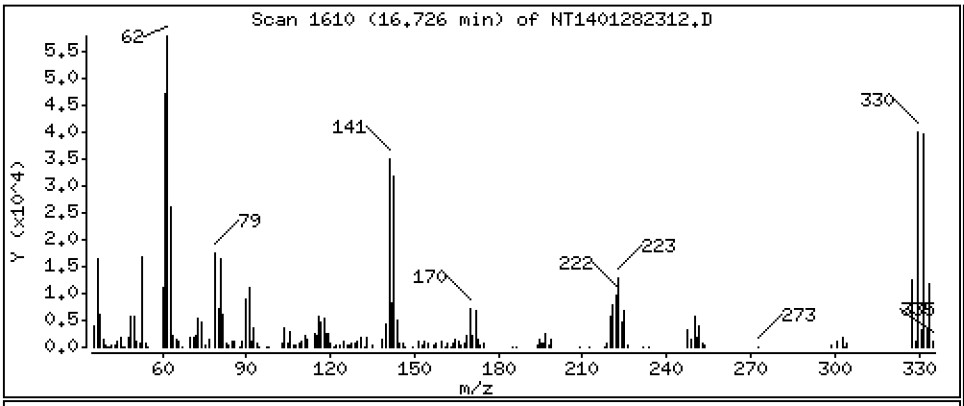
Operator: JGR

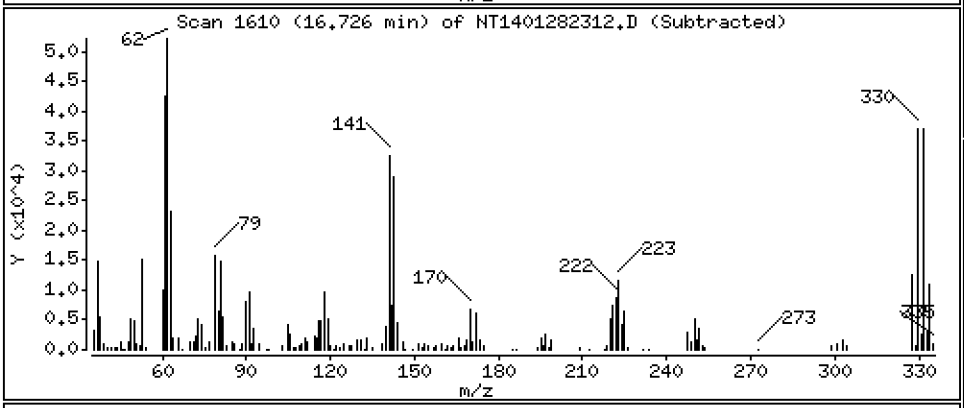
Column phase: ZB-5msi

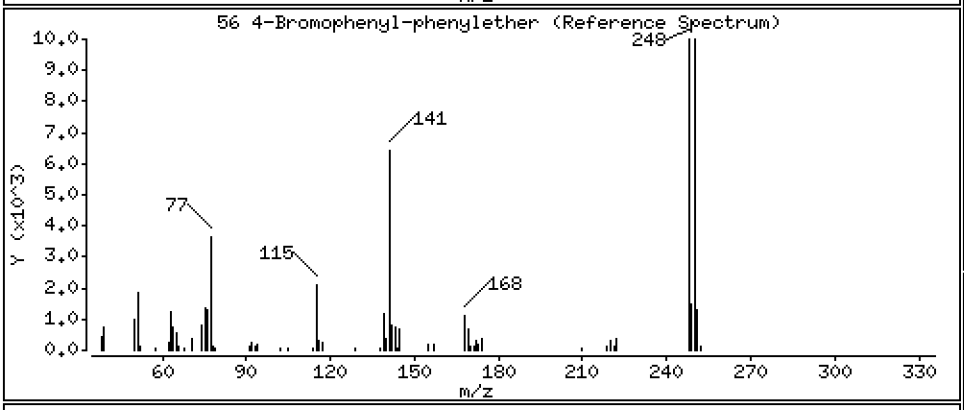
Column diameter: 0.25

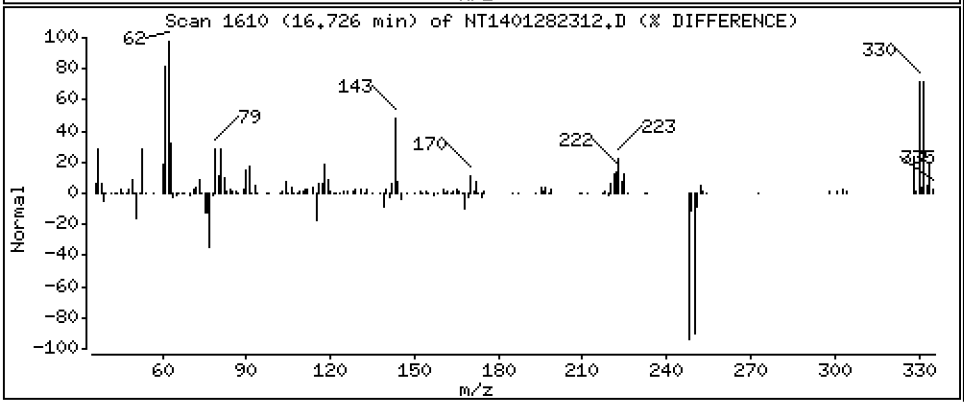
56 4-Bromophenyl-phenylether

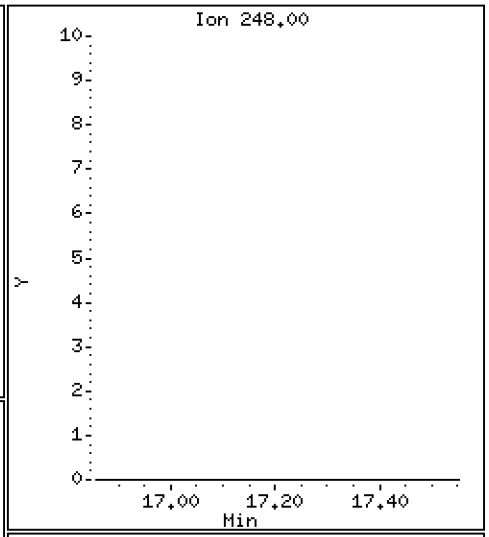
Concentration: 0.2491 ug/mL

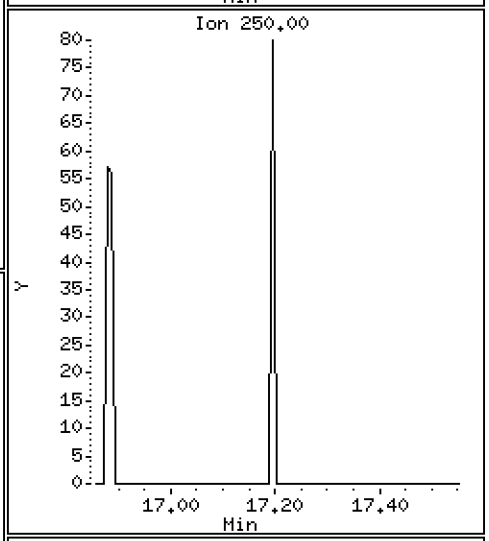


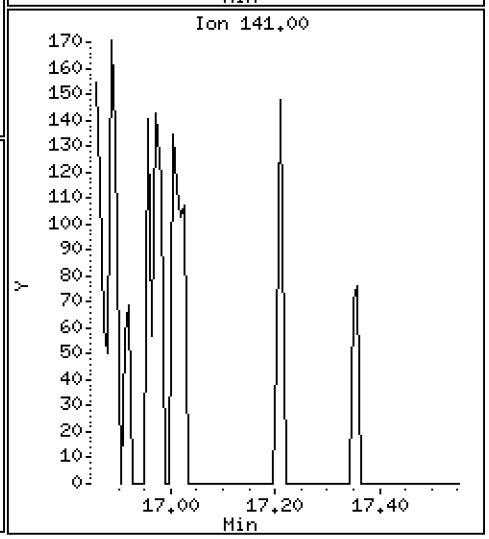












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

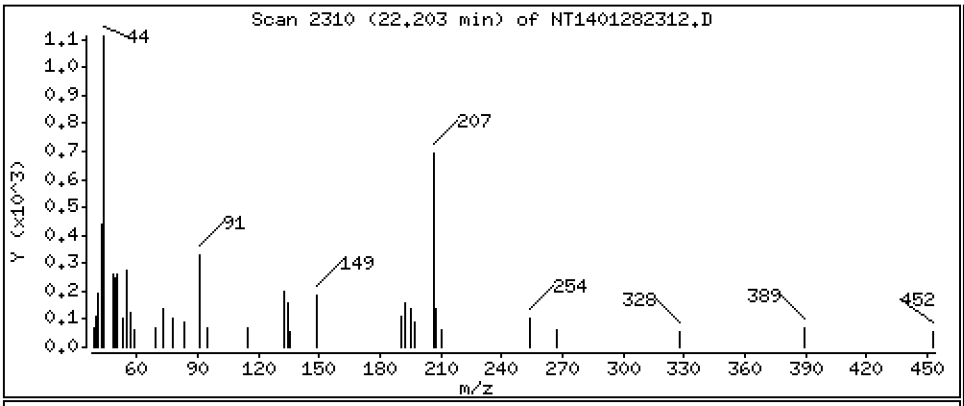
Operator: JGR

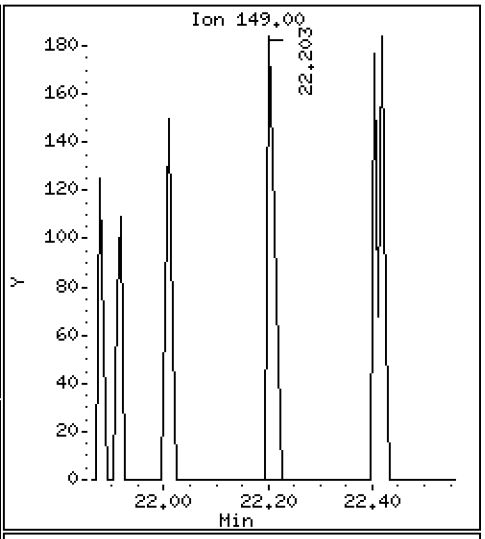
Column phase: ZB-5msi

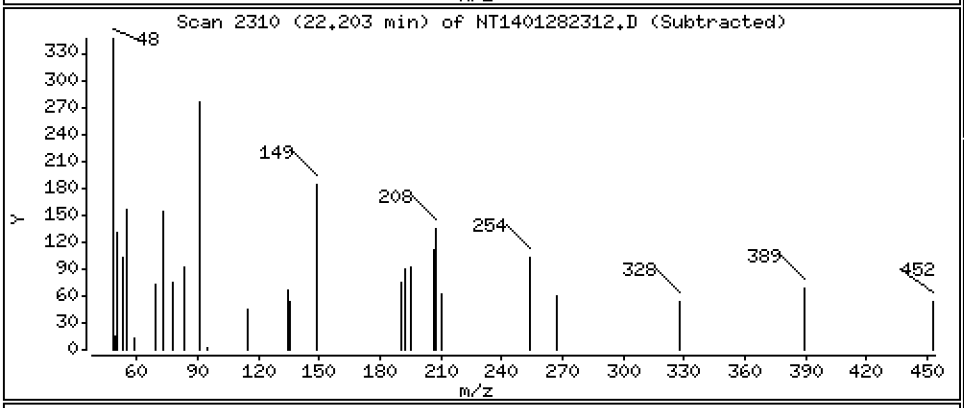
Column diameter: 0.25

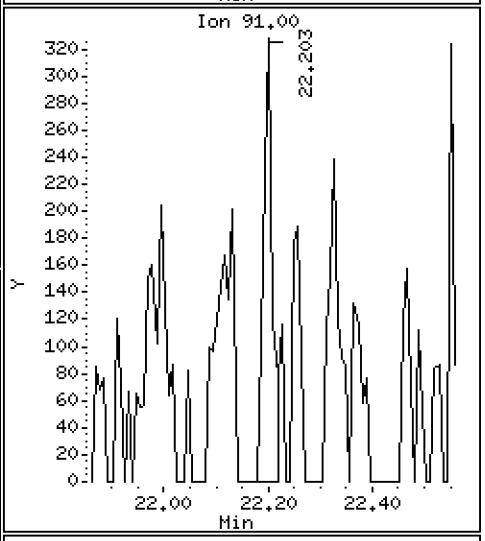
67 Butylbenzylphthalate

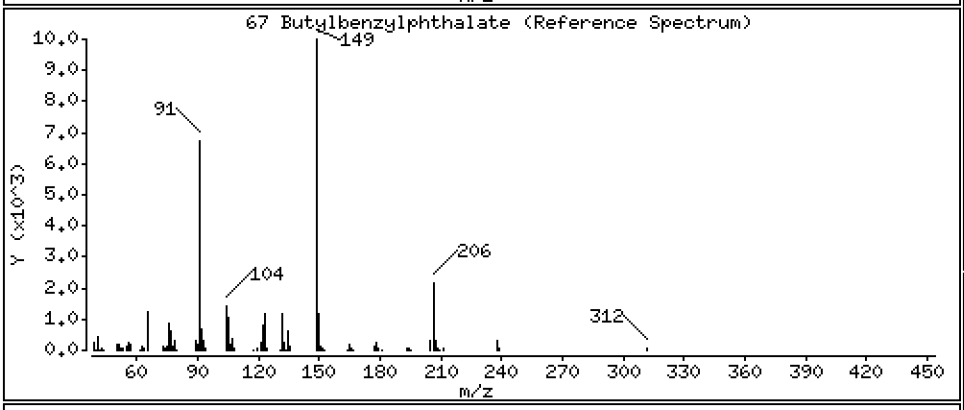
Concentration: 0.004103 ug/mL

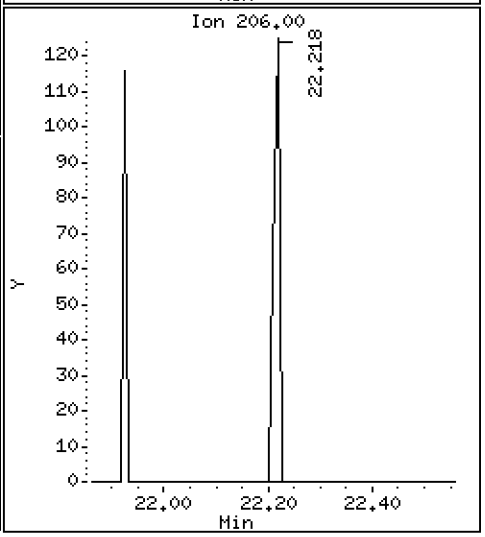


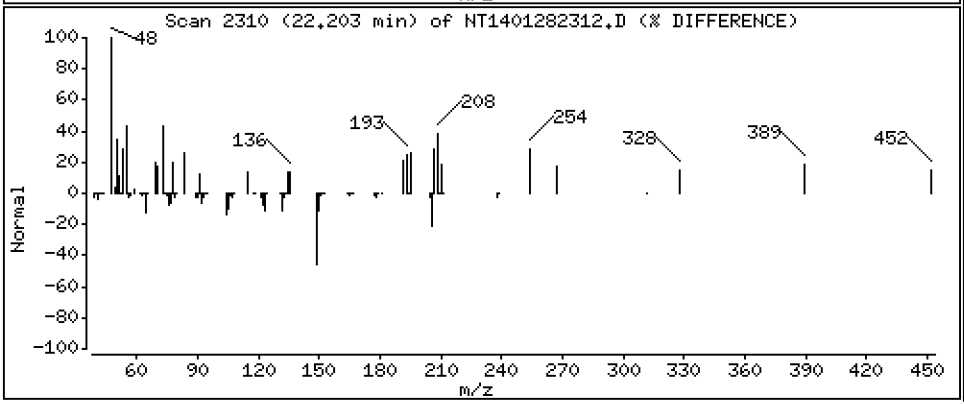












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

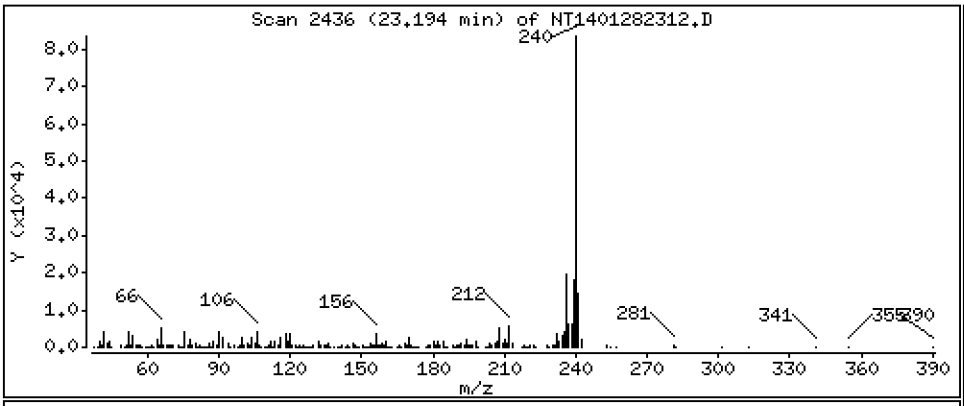
Operator: JGR

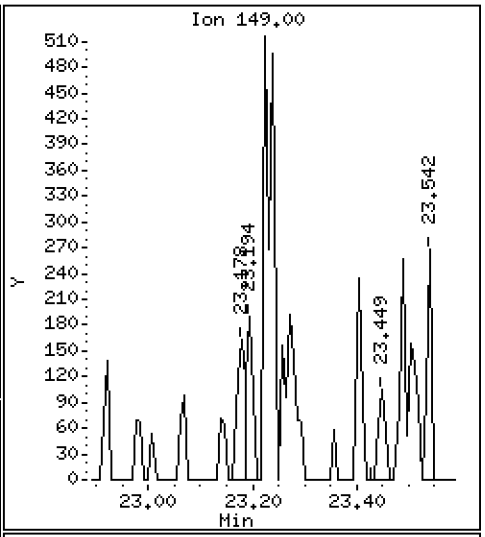
Column phase: ZB-5msi

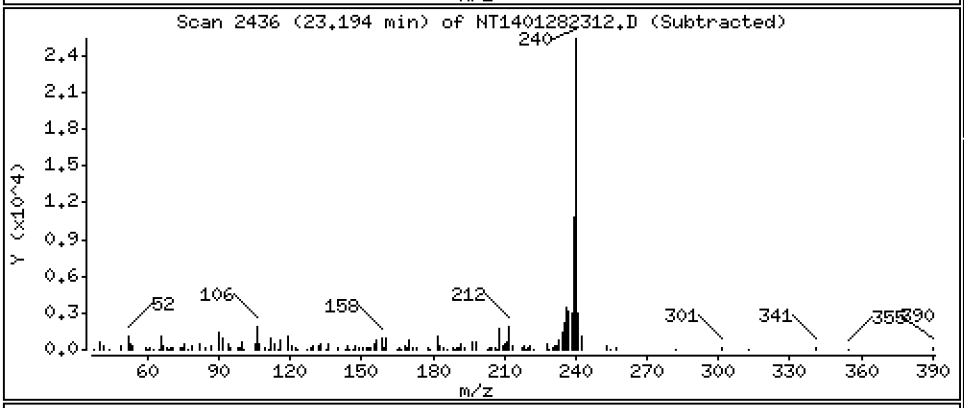
Column diameter: 0.25

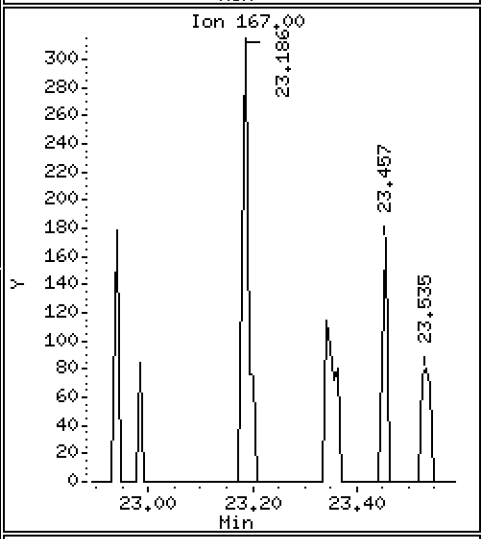
72 bis(2-Ethylhexyl)phthalate

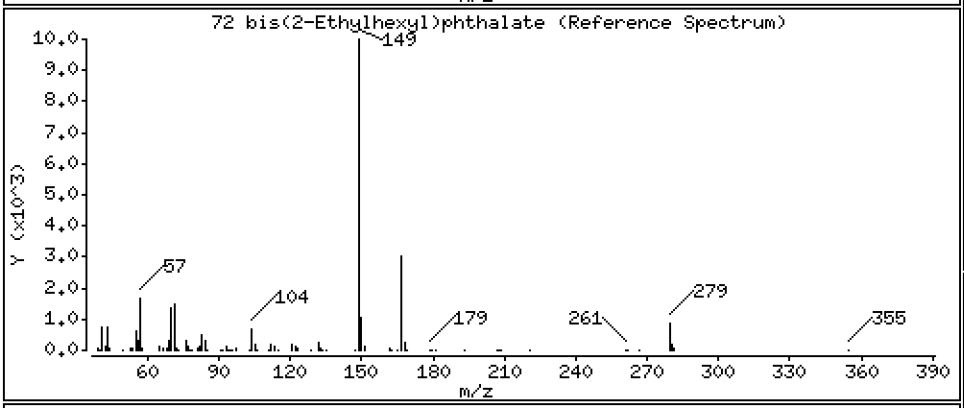
Concentration: 0.003791 ug/mL

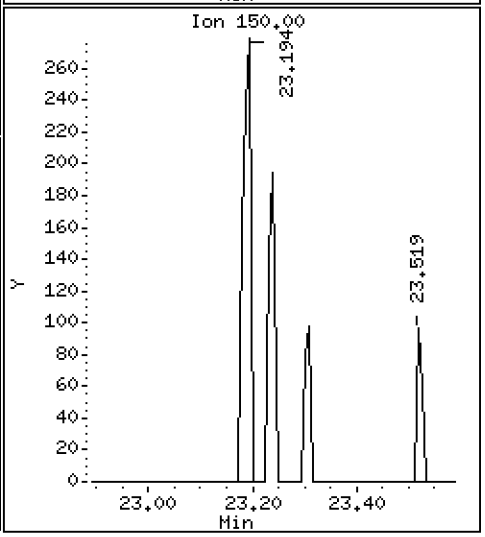


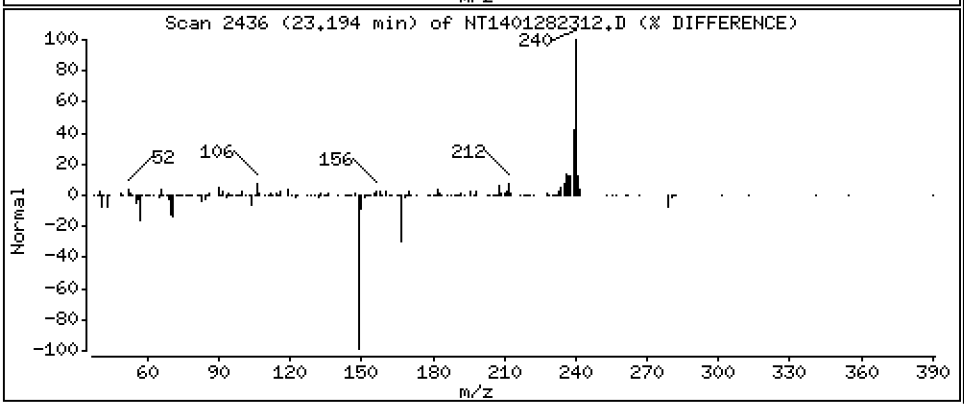












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

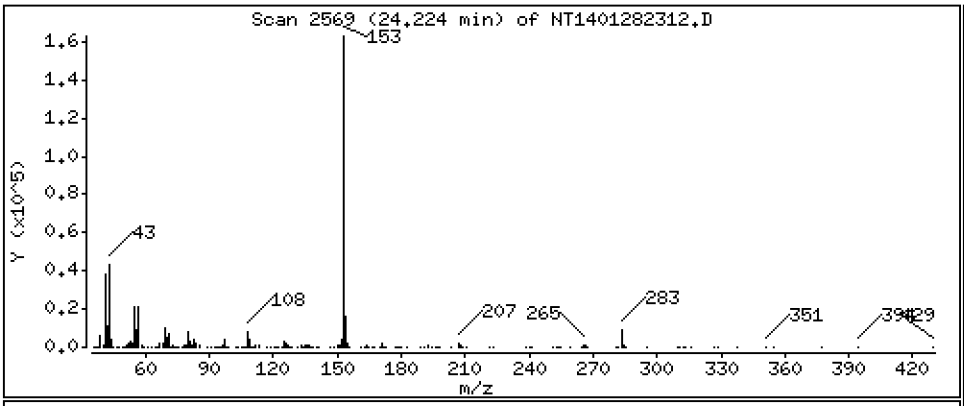
Operator: JGR

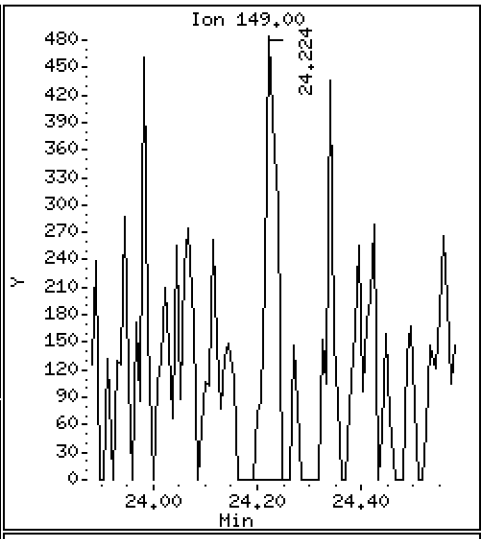
Column phase: ZB-5msi

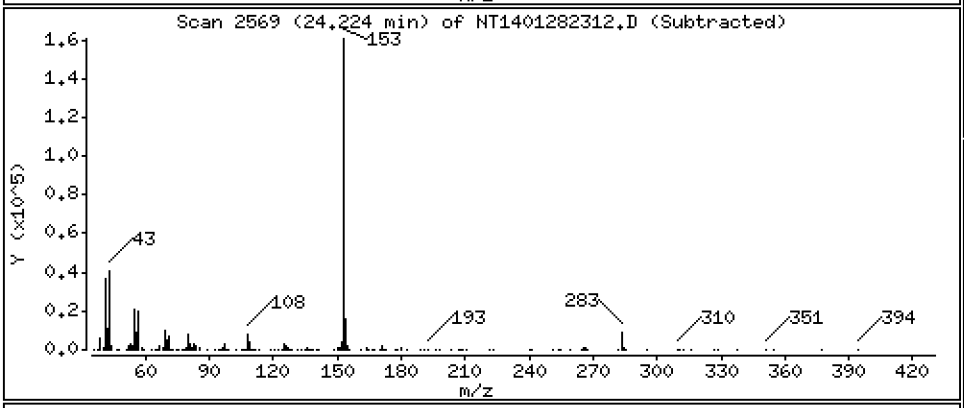
Column diameter: 0.25

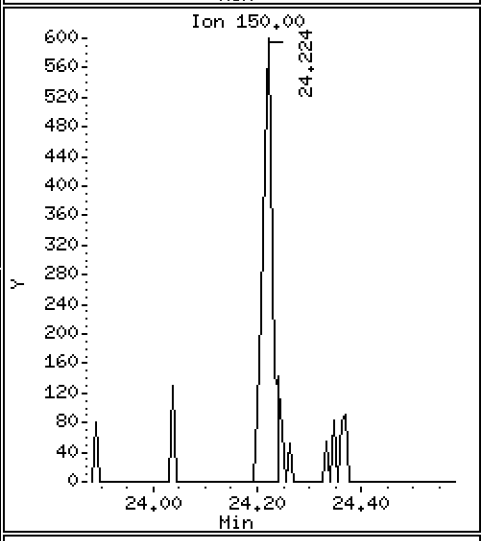
73 Di-n-octylphthalate

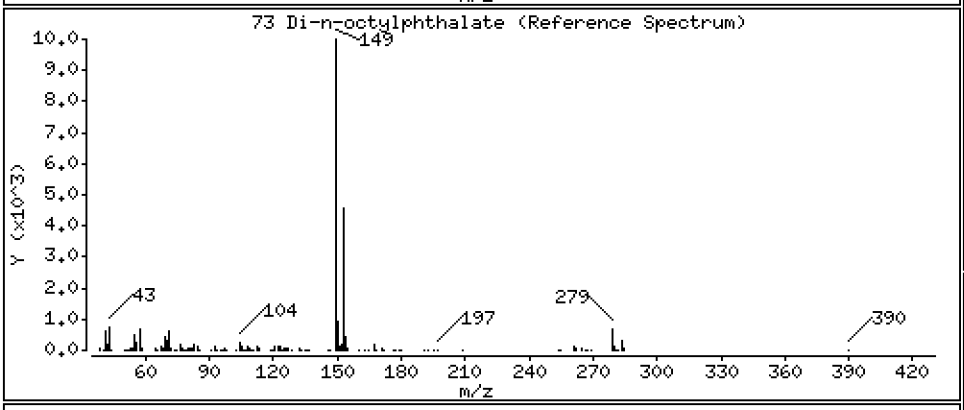
Concentration: 0.009041 ug/mL

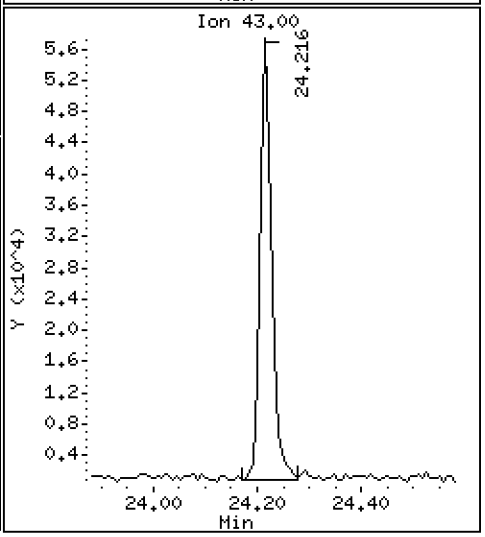


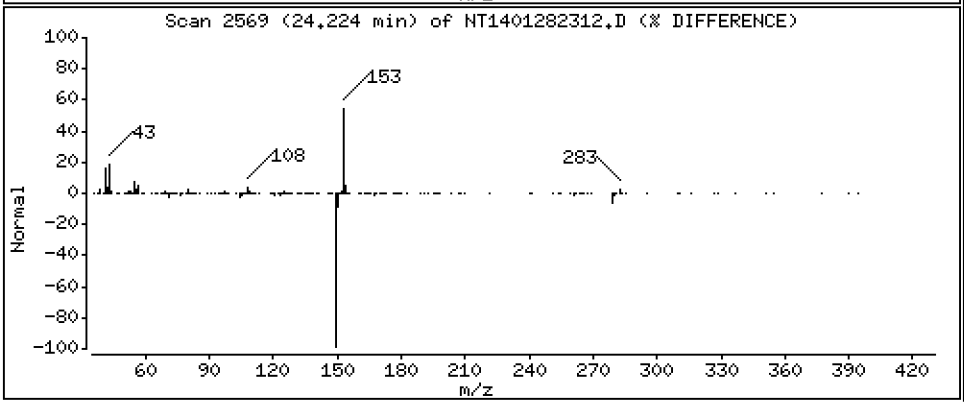












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

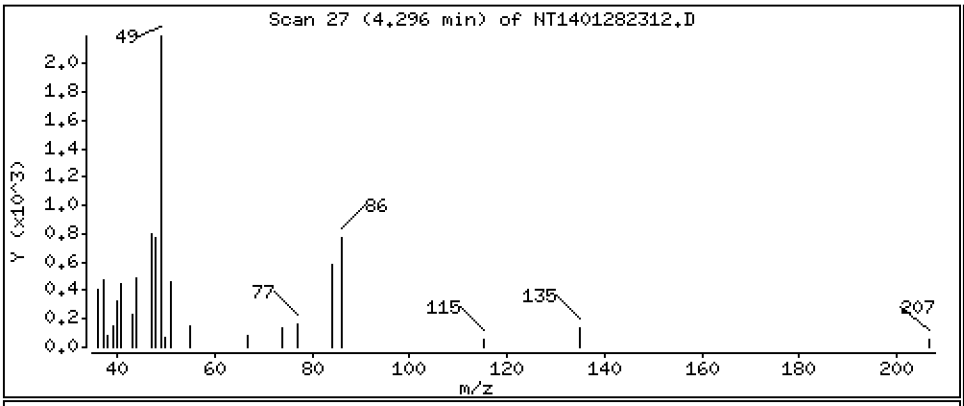
Operator: JGR

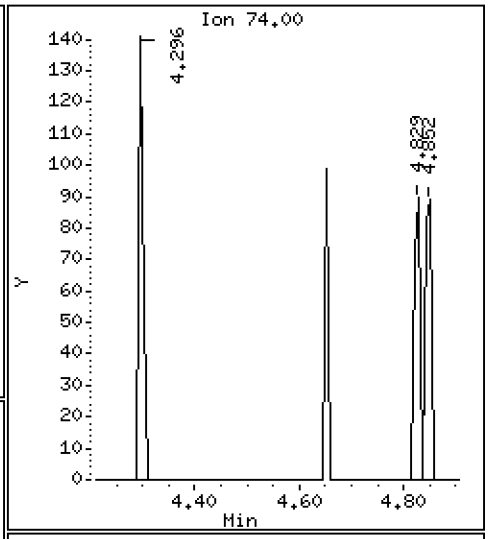
Column phase: ZB-5msi

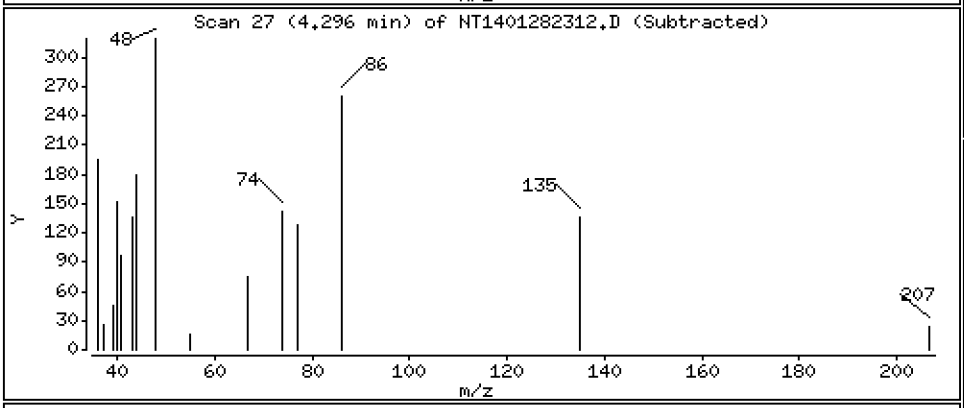
Column diameter: 0.25

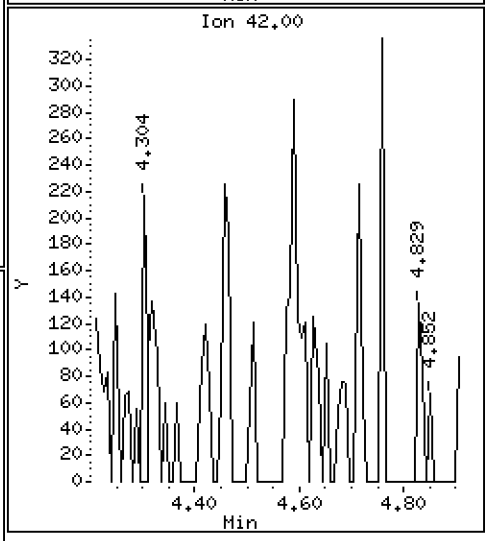
90 N-Nitrosodimethylamine

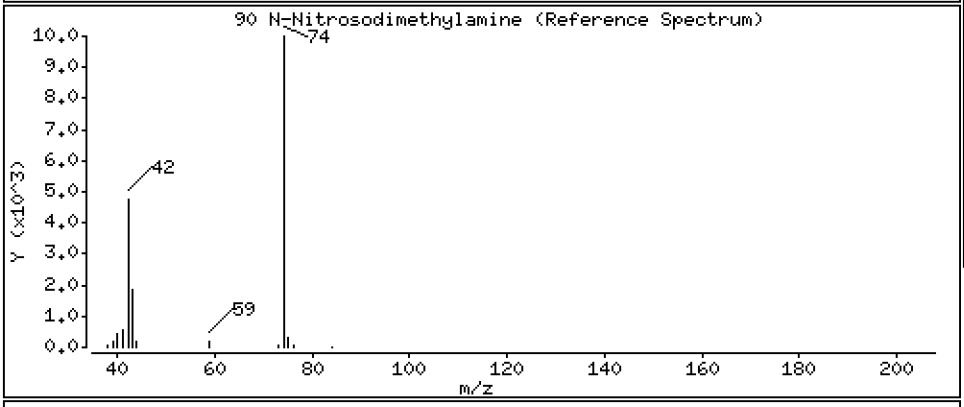
Concentration: 0.009428 ug/mL

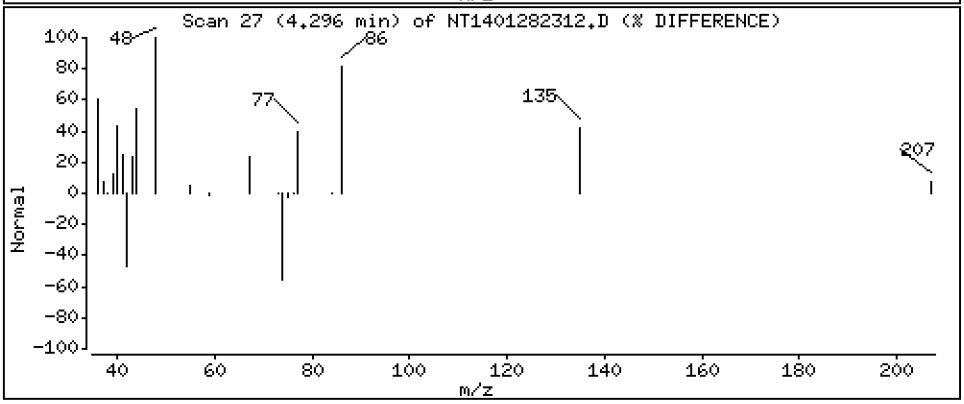












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Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

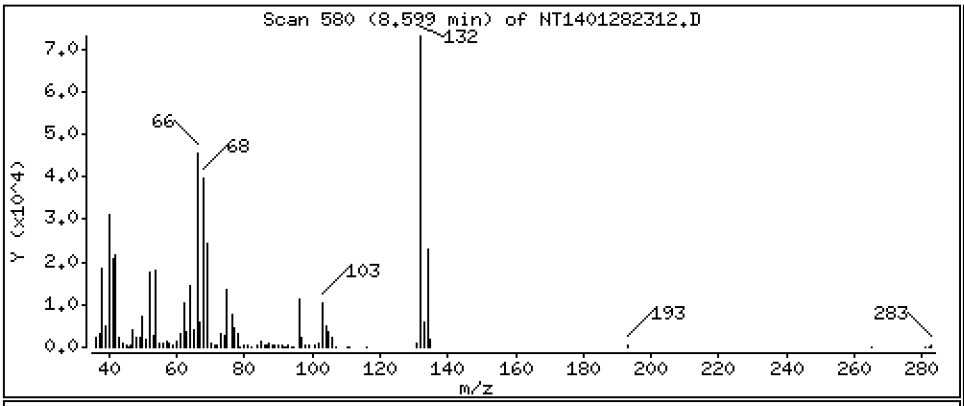
Operator: JGR

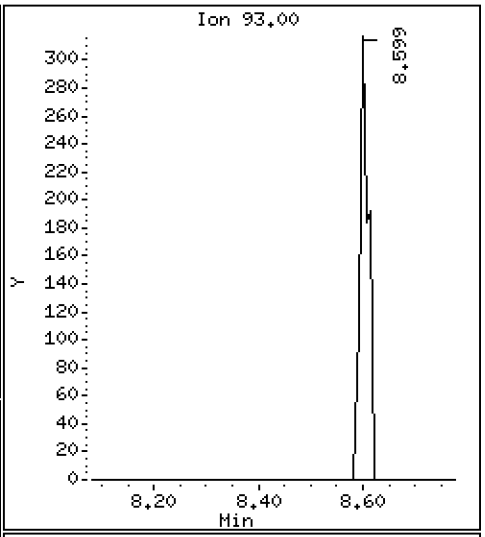
Column phase: ZB-5msi

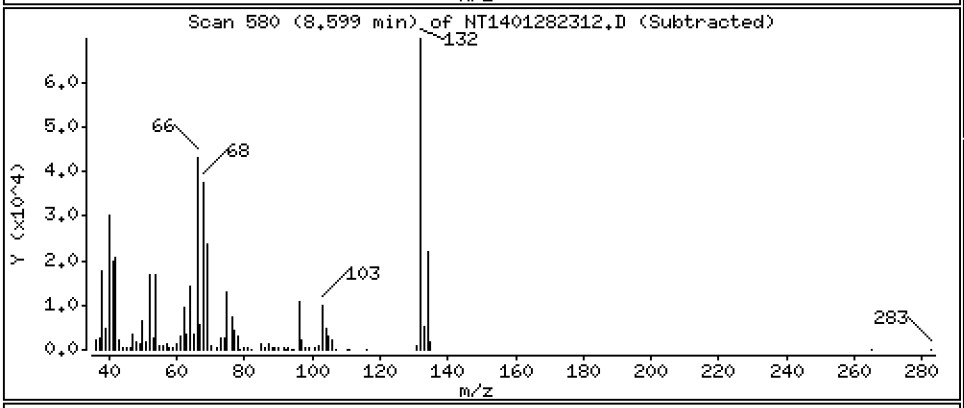
Column diameter: 0.25

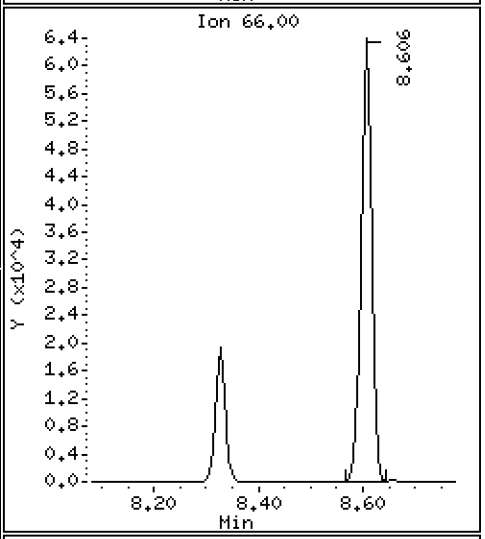
91 Aniline

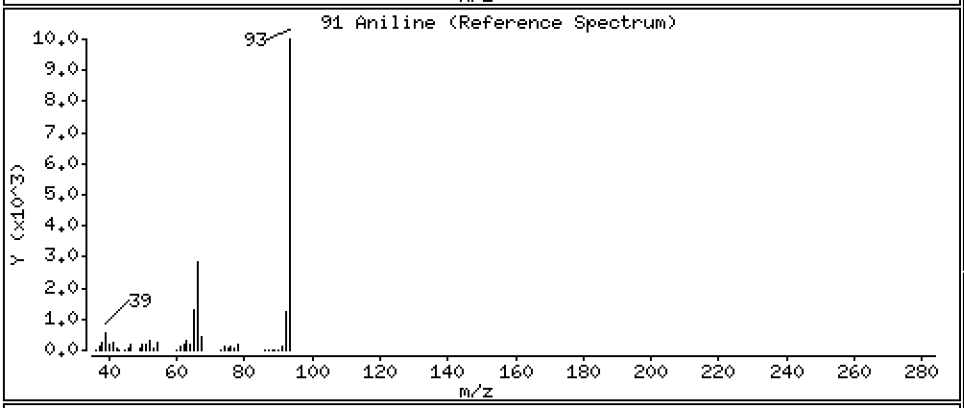
Concentration: 0.01739 ug/mL

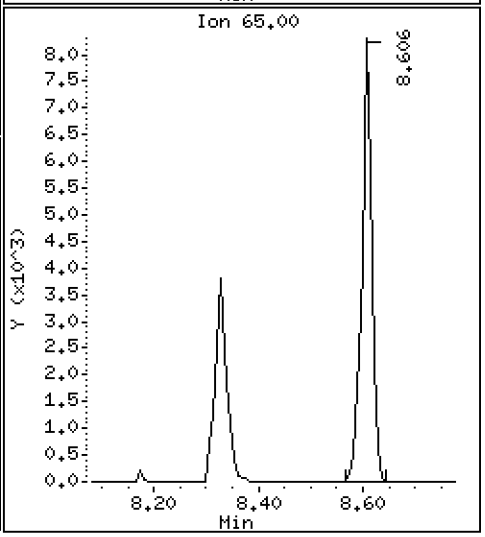


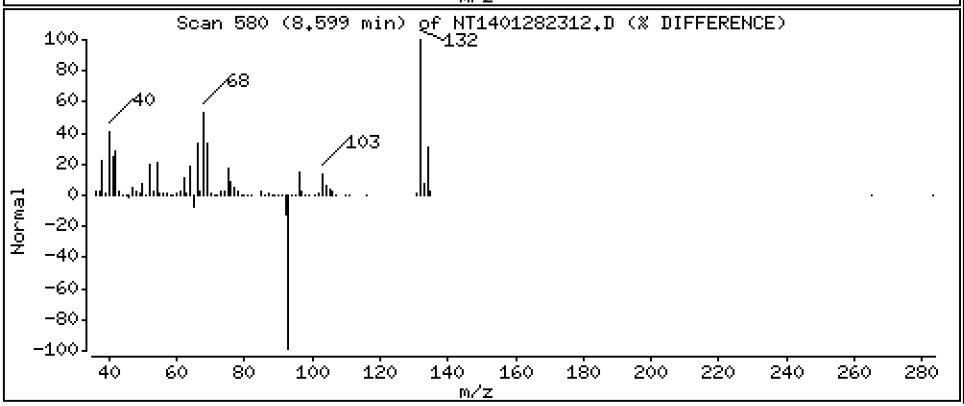












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282312.D

Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

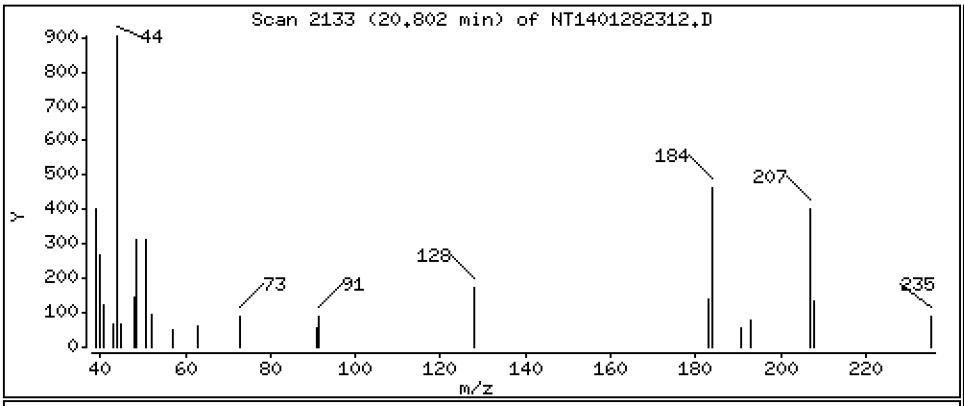
Operator: JGR

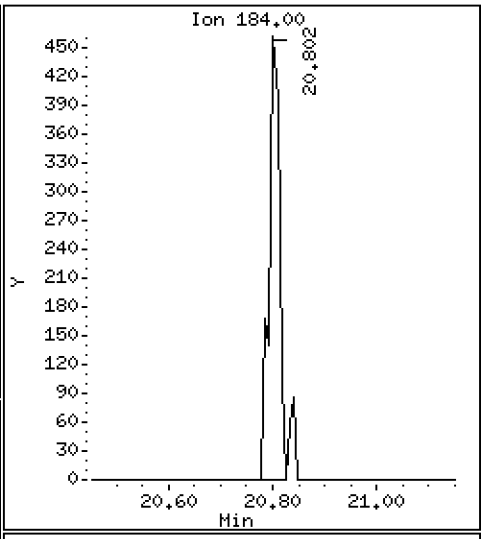
Column phase: ZB-5msi

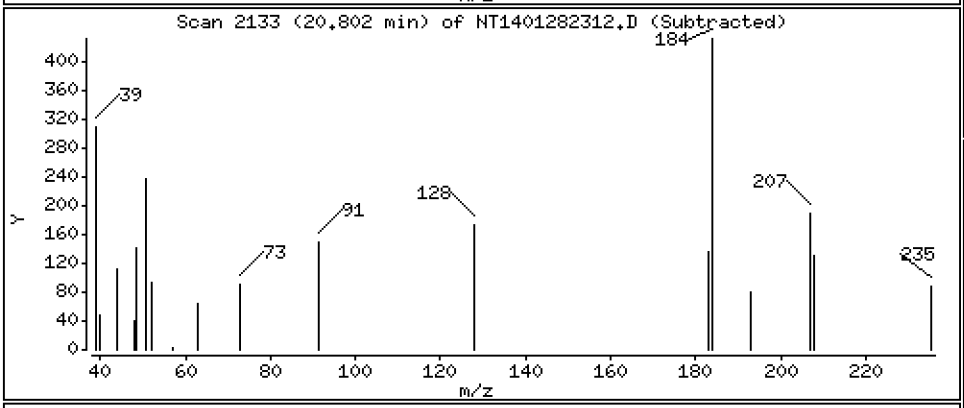
Column diameter: 0.25

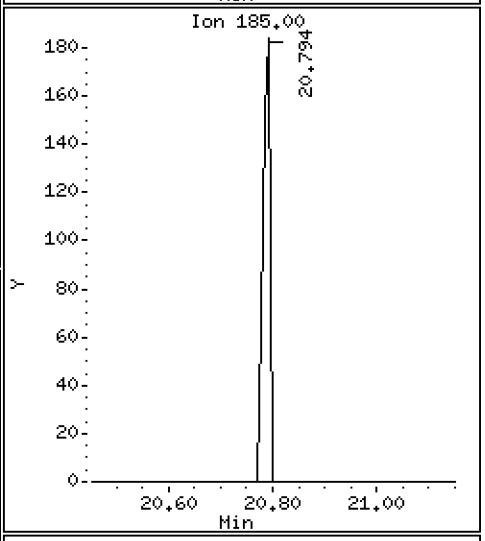
93 Benzidine

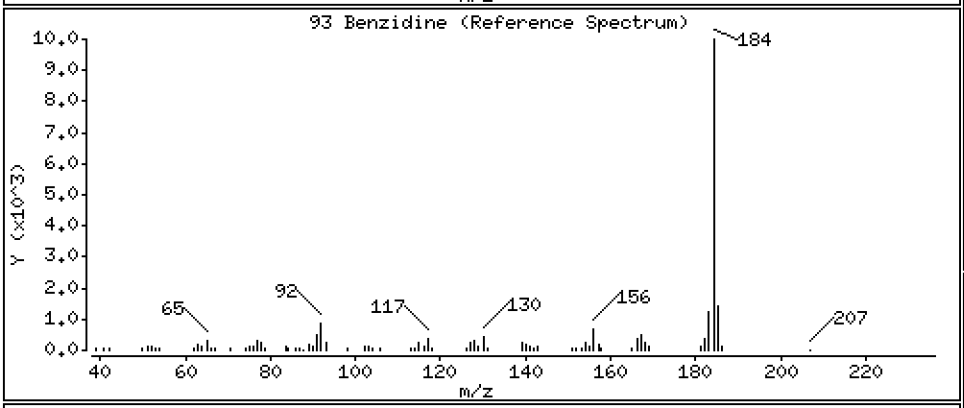
Concentration: 0.01717 ug/mL

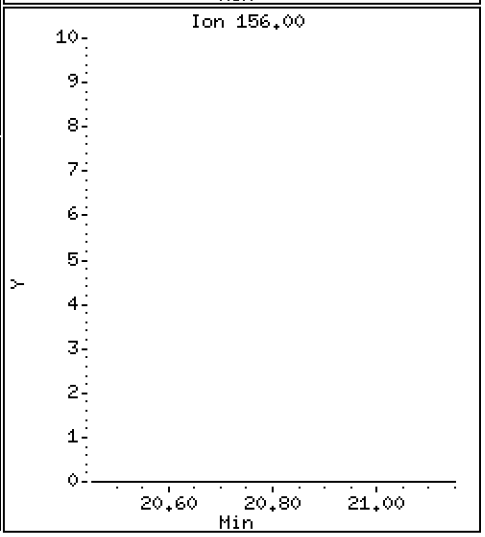


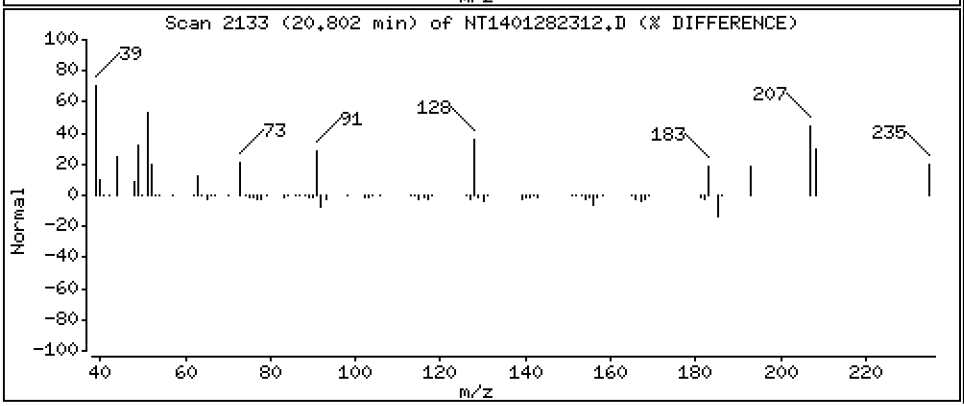












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282312.D

Date : 28-JAN-2023 22:04

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-ICB1

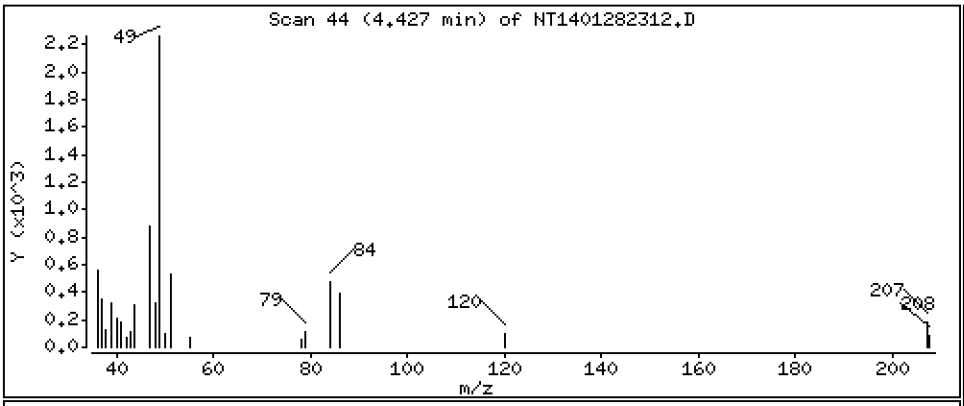
Operator: JGR

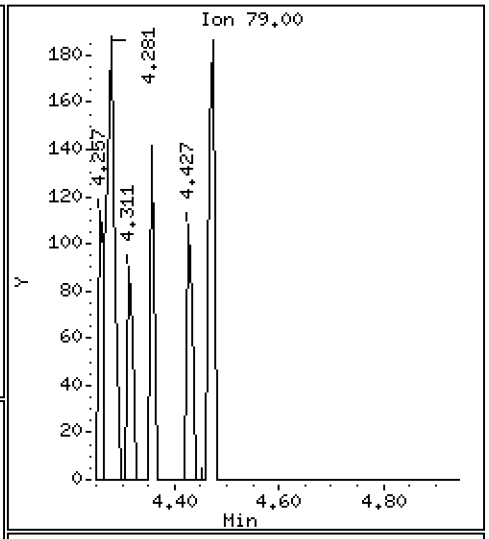
Column phase: ZB-5msi

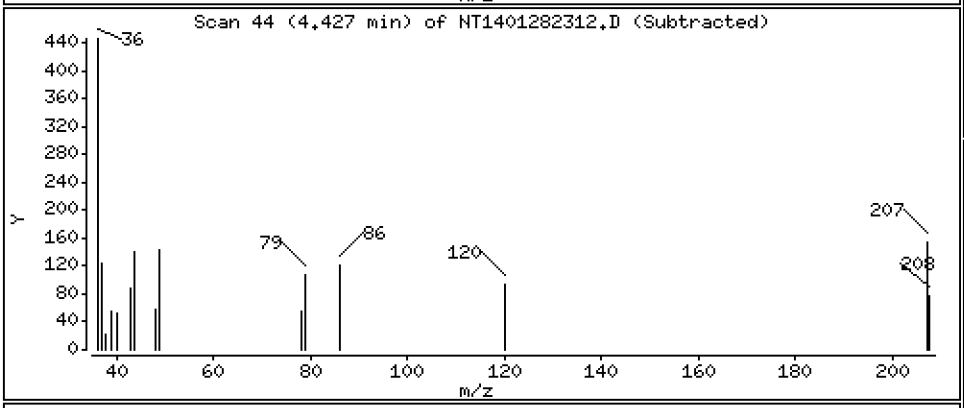
Column diameter: 0.25

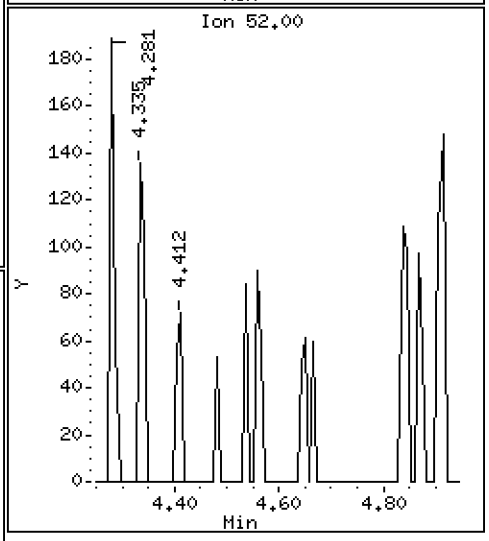
103 Pyridine

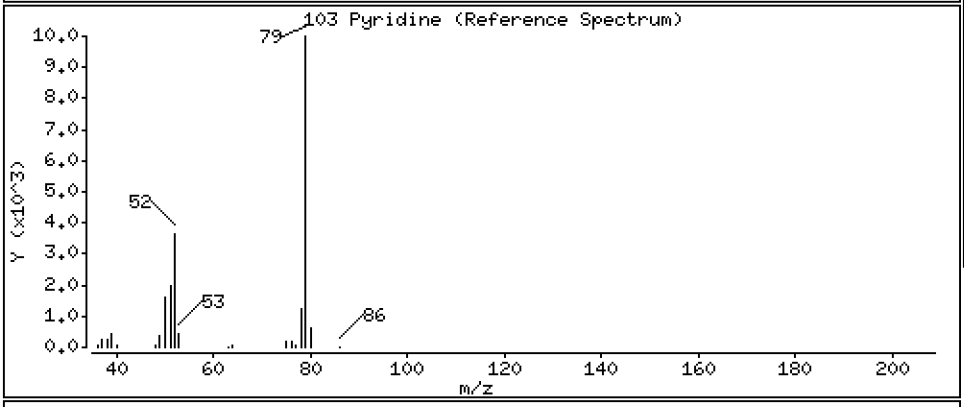
Concentration: 0.003123 ug/mL

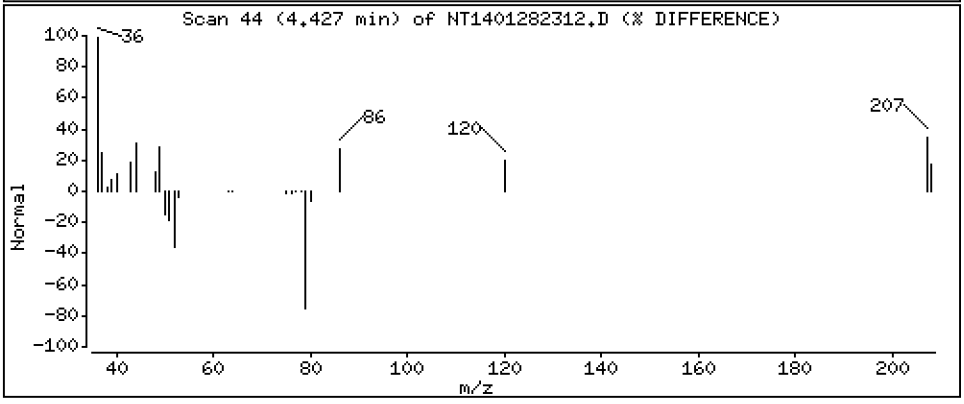












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230128.b\NT1401282312.D
Lab Smp Id: SLA0338-ICB1
Inj Date : 28-JAN-2023 22:04 MS Autotune Date: 17-MAY-2011 01:22
Operator : JGR Inst ID: nt14.i
Smp Info : SLA0338-ICB1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.736	6.744	(0.750)	127613	8.16033	8.160
$	2 Phenol-d5	99	8.328	8.328	(0.928)	163281	7.94668	7.947
	3 Phenol	94	8.343	8.351	(0.929)	213	0.00845	0.008452
$	5 2-Chlorophenol-d4	132	8.606	8.614	(0.959)	153027	7.70006	7.700
	4 Bis(2-Chloroethyl)ether	93	8.598	8.529	(0.958)	372	0.02566	0.02566
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	8.993	8.915	(1.002)	67	0.00287	0.002867
*	8 1,4-Dichlorobenzene-d4	152	8.977	8.978	(1.000)	58224	4.00000	
	9 1,4-Dichlorobenzene	146	8.993	9.009	(1.002)	67	0.00284	0.002838
$	10 1,2-Dichlorobenzene-d4	152	9.342	9.342	(1.041)	72409	5.13371	5.134
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.342	9.249	(1.041)	3915	0.31508	0.3151
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	10.072	9.808	(1.122)	29532	1.74890	1.749
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.072	10.072	(0.878)	168228	4.95951	4.960
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	10.871	10.887	(0.948)	100	0.00505	0.005046
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.467	11.475	(1.000)	237075	4.00000	
	28 Naphthalene	128	11.521	11.514	(1.005)	82	0.00137	0.001375
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.703	13.703	(0.908)	254515	5.14002	5.140
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.096	15.096	(1.000)	139134	4.00000	
	43	3-Nitroaniline	138	15.104	15.011	(1.000)	74	0.00626	0.006264
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	Compound Not Detected.					
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.733	16.741	(1.108)	75793	6.55159	6.552
	56	4-Bromophenyl-phenylether	248	16.726	17.204	(0.922)	5193	0.24915	0.2491
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.132	18.132	(1.000)	264256	4.00000	
	60	Phenanthrene	178	Compound Not Detected.					
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	Compound Not Detected.					
$	66	Terphenyl-d14	244	21.281	21.289	(0.918)	342886	5.08863	5.089
	67	Butylbenzylphthalate	149	22.202	22.210	(0.958)	171	0.00410	0.004103
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.186	23.186	(1.000)	203513	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	23.193	23.240	(0.958)	189	0.00379	0.003791
*	134	Di-n-octylphthalate-d4	153	24.215	24.215	(1.000)	309702	4.00000	
	73	Di-n-octylphthalate	149	24.223	24.231	(1.000)	707	0.00904	0.009041
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	25.772	25.772	(1.000)	177406	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	4.295	4.558	(0.479)	89	0.00943	0.009428
	91	Aniline	93	8.598	8.428	(0.958)	372	0.01739	0.01739
	93	Benzidine	184	20.801	20.801	(0.897)	591	0.01717	0.01717
	103	Pyridine	79	4.427	4.597	(0.493)	85	0.00312	0.003123
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					
	187	Total Benzofluoranthenes	252	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282312.D
Lab Smp Id: SLA0338-ICB1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	58224	9.73
27 Naphthalene-d8	202004	101002	404008	237075	17.36
42 Acenaphthene-d10	124451	62226	248902	139134	11.80
59 Phenanthrene-d10	239860	119930	479720	264256	10.17
69 Chrysene-d12	191274	95637	382548	203513	6.40
134 Di-n-octylphthala	341876	170938	683752	309702	-9.41
77 Perylene-d12	162367	81184	324734	177406	9.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.98	-0.09
27 Naphthalene-d8	11.48	10.98	11.98	11.47	-0.07
42 Acenaphthene-d10	15.10	14.60	15.60	15.10	-0.05
59 Phenanthrene-d10	18.14	17.64	18.64	18.13	-0.04
69 Chrysene-d12	23.19	22.69	23.69	23.19	-0.03
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	-0.03
77 Perylene-d12	25.77	25.27	26.27	25.77	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282312.D

Lab ID: SLA0338-ICB1
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 22:04

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.958	0.950	0.0077	Bis(2-Chloroethyl)ether
1.002	0.993	0.0086	1,3-Dichlorobenzene
1.041	1.030	0.0104	Benzyl alcohol
1.122	1.093	0.0294	N-Nitroso-di-n-propylamine
1.000	0.994	0.0061	3-Nitroaniline
0.922	0.949	-0.0264	4-Bromophenyl-phenylether
0.478	0.508	-0.0293	N-Nitrosodimethylamine
0.958	0.939	0.0189	Aniline
0.493	0.512	-0.0189	Pyridine

RRT check based on Ccal File: NT1401282308.D

On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00072
Laboratory ID: SLA0338-SCV1
Sequence: SLA0338
Sequence Name: SCV 5.0
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	5.0000	3.8	-23.5 *	20.00
bis(2-chloroethyl) ether	5.0000	5.3	6.4	20.00
2-Chlorophenol	5.0000	4.1	-17.3	20.00
1,3-Dichlorobenzene	5.0000	4.7	-6.5	20.00
1,4-Dichlorobenzene	5.0000	4.7	-7.0	20.00
1,2-Dichlorobenzene	5.0000	4.4	-13.0	20.00
Benzyl Alcohol	5.0000	4.4	-11.7	20.00
2,2'-Oxybis(1-chloropropane)	5.0000	5.0	-0.5	20.00
2-Methylphenol	5.0000	3.3	-33.9 *	20.00
Hexachloroethane	5.0000	4.5	-10.1	20.00
N-Nitroso-di-n-Propylamine	5.0000	4.8	-3.3	20.00
4-Methylphenol	5.0000	3.4	-31.5 *	20.00
Nitrobenzene	5.0000	4.9	-1.7	20.00
Isophorone	5.0000	6.6	31.9 *	20.00
2-Nitrophenol	5.0000	4.1	-17.3	20.00
2,4-Dimethylphenol	5.0000	3.0	-39.3 *	20.00
Bis(2-Chloroethoxy)methane	5.0000	5.5	9.1	20.00
2,4-Dichlorophenol	5.0000	4.0	-20.1 *	20.00
1,2,4-Trichlorobenzene	5.0000	4.5	-10.5	20.00
Naphthalene	5.0000	4.8	-3.9	20.00
Benzoic acid	10.000	6.7	-33.3 *	20.00
4-Chloroaniline	5.0000	3.5	-29.1 *	20.00
Hexachlorobutadiene	5.0000	4.7	-6.5	20.00
4-Chloro-3-Methylphenol	5.0000	3.9	-21.1 *	20.00
2-Methylnaphthalene	5.0000	4.4	-12.9	20.00
Hexachlorocyclopentadiene	5.0000	4.6	-7.3	20.00
2,4,6-Trichlorophenol	5.0000	3.7	-25.8 *	20.00
2,4,5-Trichlorophenol	5.0000	3.6	-27.7 *	20.00
2-Chloronaphthalene	5.0000	4.7	-5.9	20.00
2-Nitroaniline	5.0000	4.5	-9.8	20.00
Acenaphthylene	5.0000	4.7	-6.1	20.00
Dimethylphthalate	5.0000	4.9	-2.5	20.00
2,6-Dinitrotoluene	5.0000	4.6	-7.9	20.00
Acenaphthene	5.0000	4.8	-3.5	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00072
Laboratory ID: SLA0338-SCV1
Sequence: SLA0338
Sequence Name: SCV 5.0
Standard ID: K010066

3-Nitroaniline	5.0000	4.5	-10.5	20.00
2,4-Dinitrophenol	5.0000	2.1	-57.9 *	20.00
Dibenzofuran	5.0000	4.6	-8.9	20.00
4-Nitrophenol	5.0000	3.7	-26.9 *	20.00
2,4-Dinitrotoluene	5.0000	4.3	-13.8	20.00
Fluorene	5.0000	4.7	-5.5	20.00
4-Chlorophenylphenyl ether	5.0000	4.5	-10.3	20.00
Diethyl phthalate	5.0000	5.0	-0.9	20.00
4-Nitroaniline	5.0000	4.5	-9.9	20.00
4,6-Dinitro-2-methylphenol	5.0000	3.4	-31.6 *	20.00
N-Nitrosodiphenylamine	5.0000	4.5	-9.4	20.00
4-Bromophenyl phenyl ether	5.0000	4.6	-8.5	20.00
Hexachlorobenzene	5.0000	4.5	-10.9	20.00
Pentachlorophenol	5.0000	3.4	-31.2 *	20.00
Phenanthrene	5.0000	4.6	-8.9	20.00
Anthracene	5.0000	4.1	-18.8	20.00
Carbazole	5.0000	4.4	-12.3	20.00
Di-n-Butylphthalate	5.0000	4.9	-1.0	20.00
Fluoranthene	5.0000	4.8	-4.9	20.00
Pyrene	5.0000	4.7	-6.0	20.00
Butylbenzylphthalate	5.0000	4.8	-3.1	20.00
Benzo(a)anthracene	5.0000	4.6	-8.6	20.00
3,3'-Dichlorobenzidine	10.000	8.2	-17.7	20.00
Chrysene	5.0000	4.5	-10.7	20.00
bis(2-Ethylhexyl)phthalate	5.0000	4.8	-3.5	20.00
Di-n-Octylphthalate	5.0000	4.8	-3.3	20.00
Benzofluoranthenes, Total	10.000	9.1	-9.1	20.00
Benzo(a)pyrene	5.0000	4.7	-6.8	20.00
Indeno(1,2,3-cd)pyrene	5.0000	4.6	-7.3	20.00
Dibenzo(a,h)anthracene	5.0000	4.5	-10.9	20.00
Benzo(g,h,i)perylene	5.0000	4.7	-6.9	20.00
1-Methylnaphthalene	5.0000	4.4	-12.4	20.00
2-Fluorophenol	7.5000	8.18	9.0	20.00
Phenol-d5	7.5000	7.72	2.9	20.00
2-Chlorophenol-d4	7.5000	7.53	0.5	20.00
1,2-Dichlorobenzene-d4	5.0000	4.77	-4.6	20.00
Nitrobenzene-d5	5.0000	5.28	5.6	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00072
Laboratory ID: SLA0338-SCV1
Sequence: SLA0338
Sequence Name: SCV 5.0
Standard ID: K010066

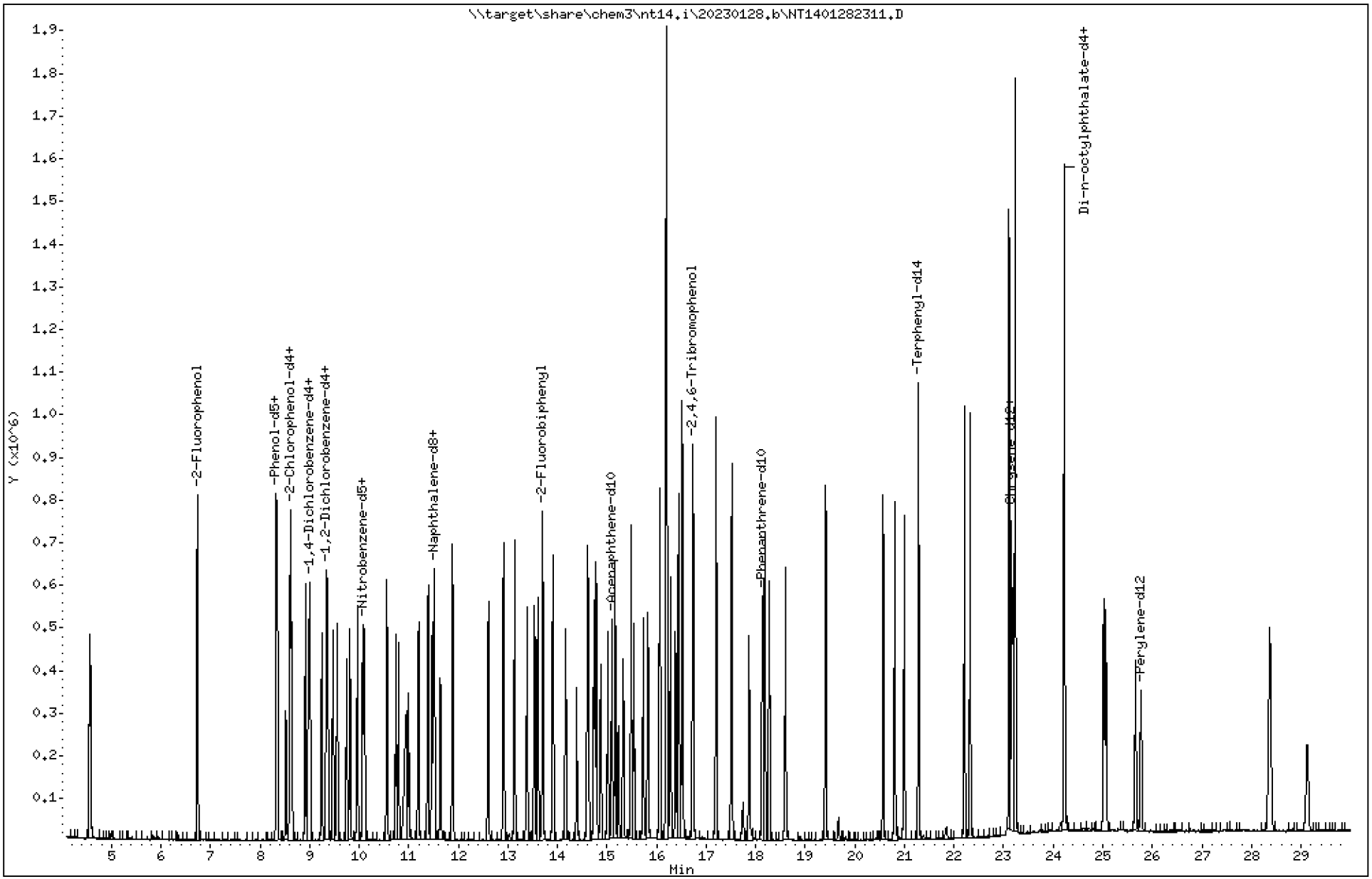
2-Fluorobiphenyl	5.0000	5.02	0.4	20.00
2,4,6-Tribromophenol	7.5000	7.86	4.8	20.00
p-Terphenyl-d14	5.0000	5.00	0.07	20.00

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D
Date : 28-JAN-2023 21:28
Client ID:
Sample Info: SLA0338-SCV1

Instrument: nt14.i
Operator: JGR
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

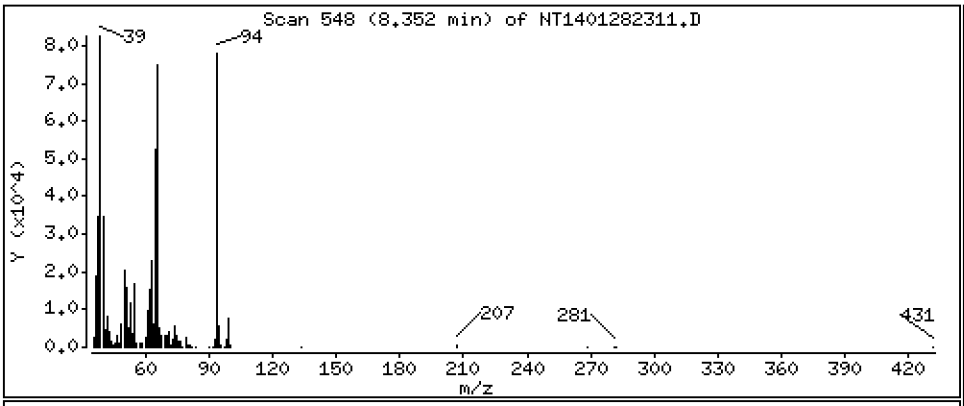
Operator: JGR

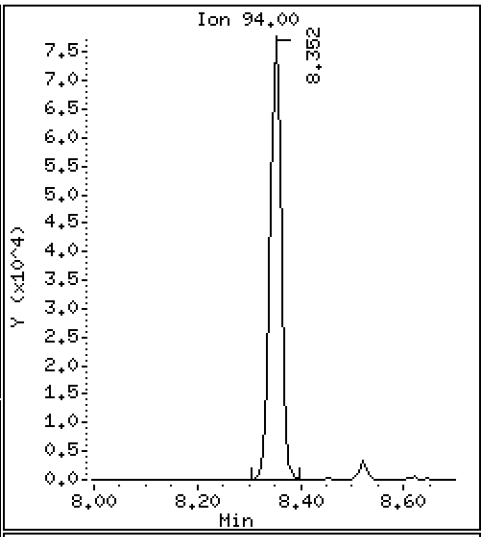
Column phase: ZB-5msi

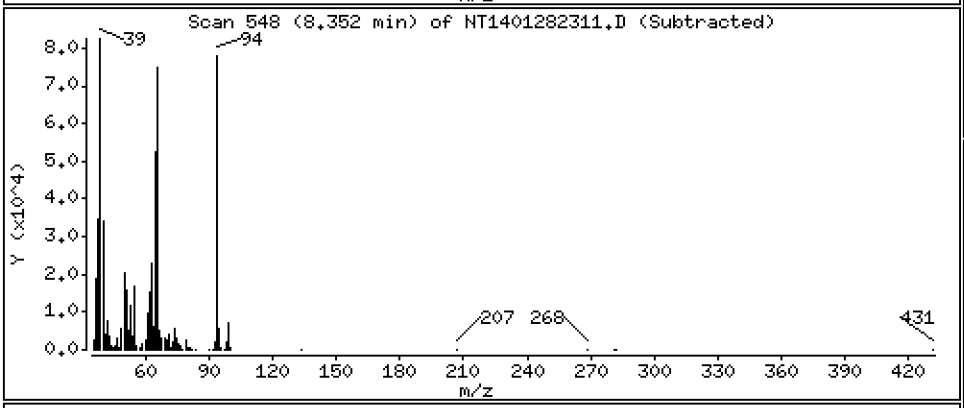
Column diameter: 0.25

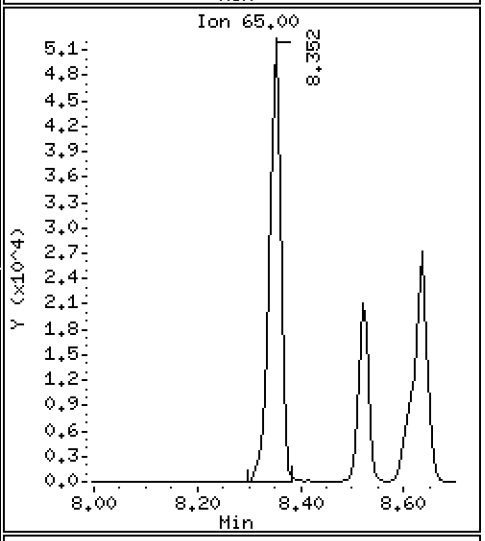
3 Phenol

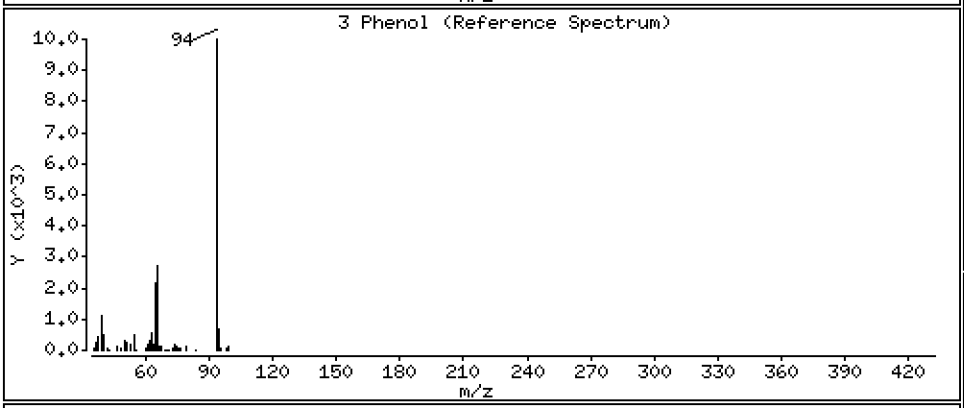
Concentration: 3.825 ug/mL

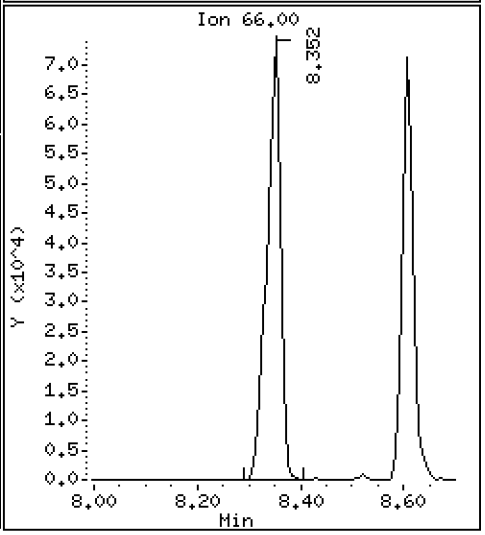


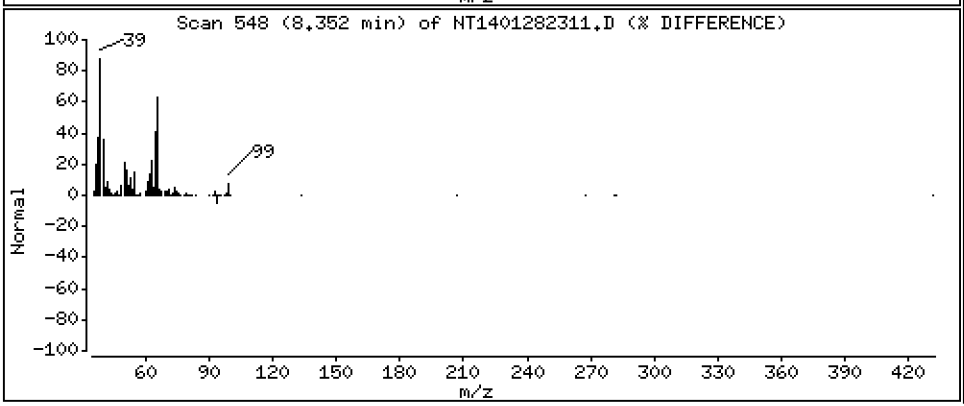












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

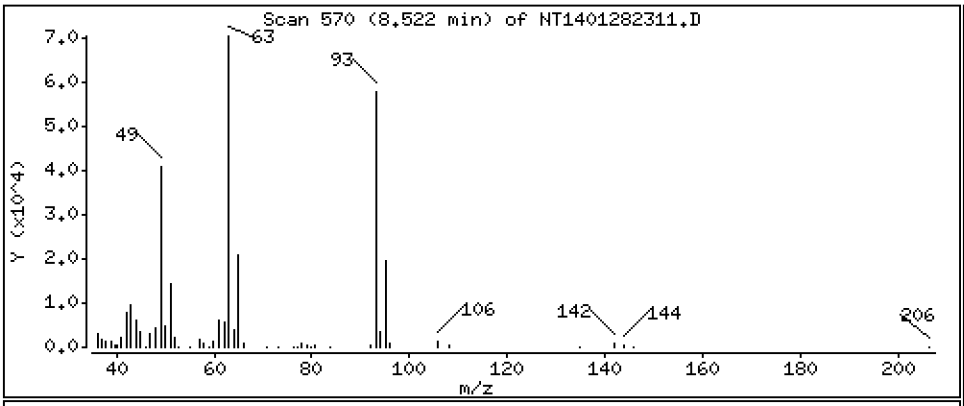
Operator: JGR

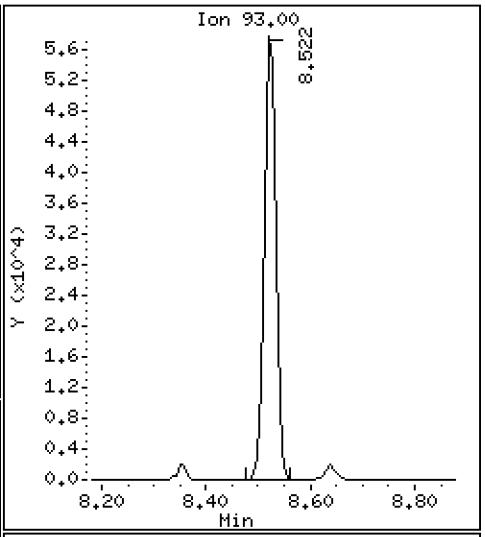
Column phase: ZB-5msi

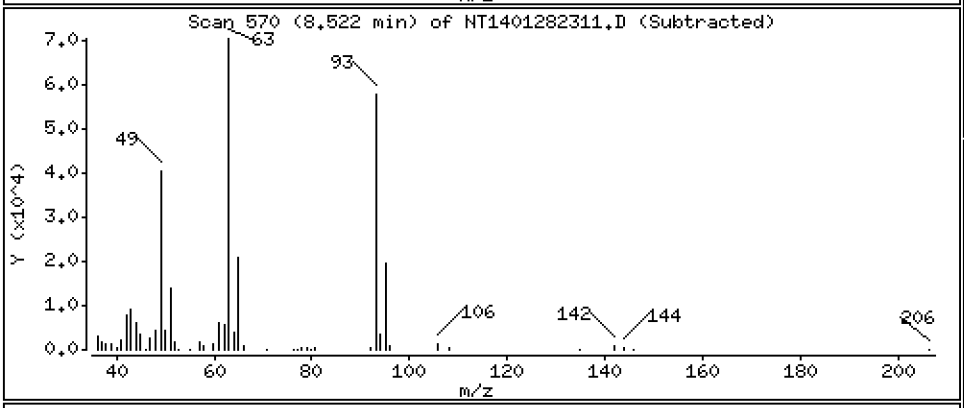
Column diameter: 0.25

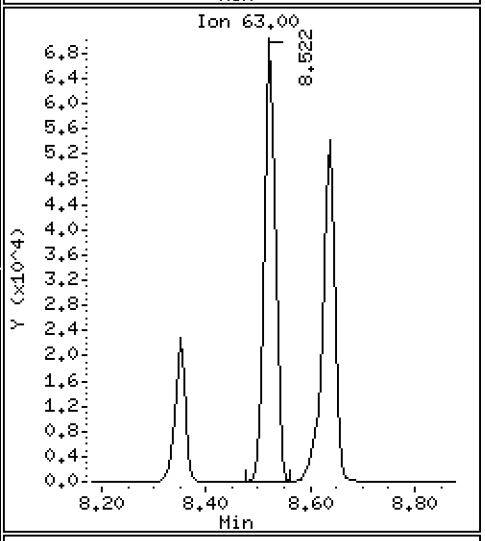
4 Bis(2-Chloroethyl)ether

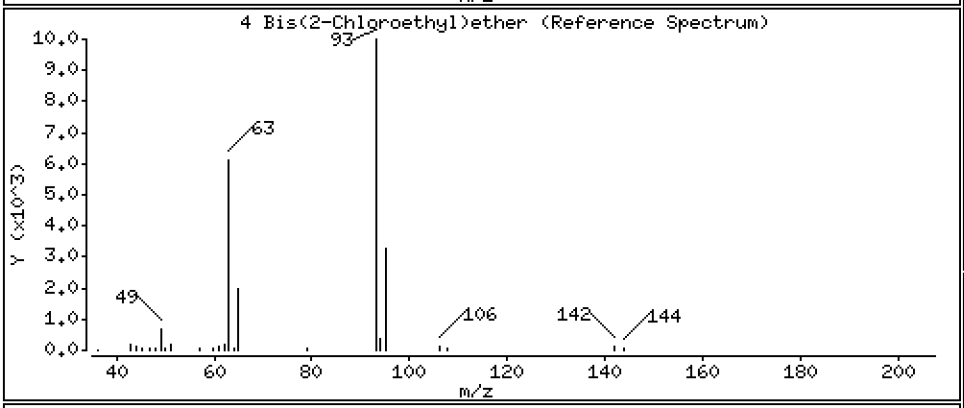
Concentration: 5.320 ug/mL

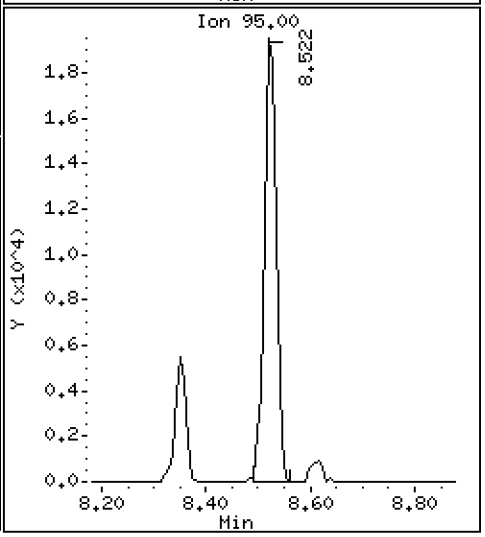


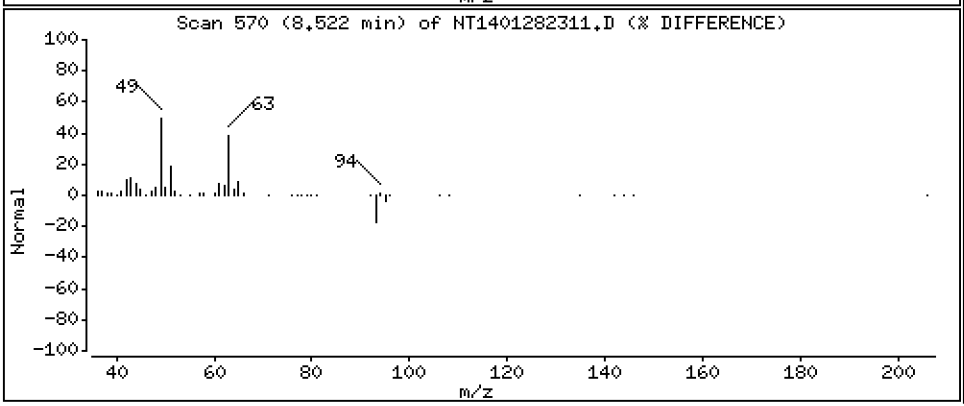












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

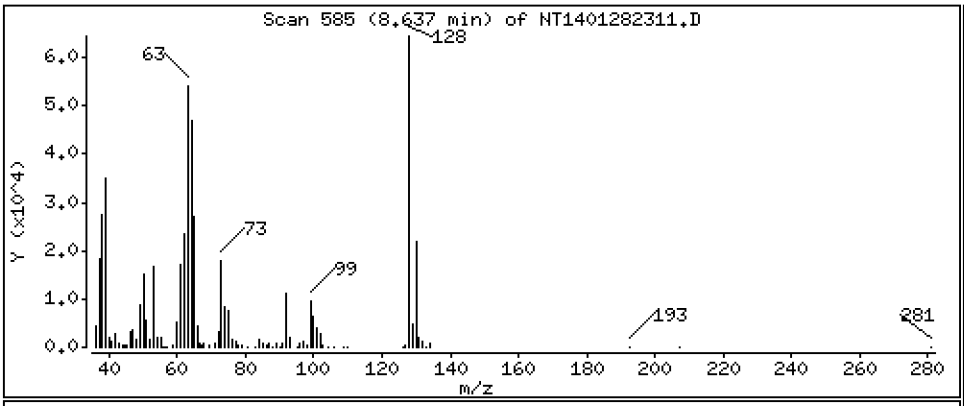
Operator: JGR

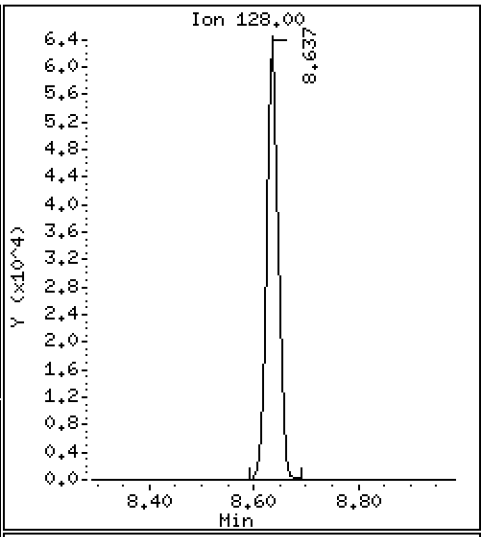
Column phase: ZB-5msi

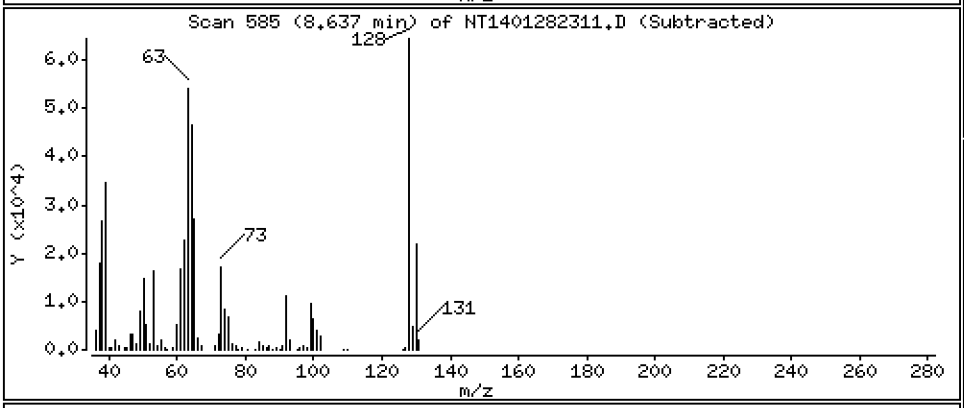
Column diameter: 0.25

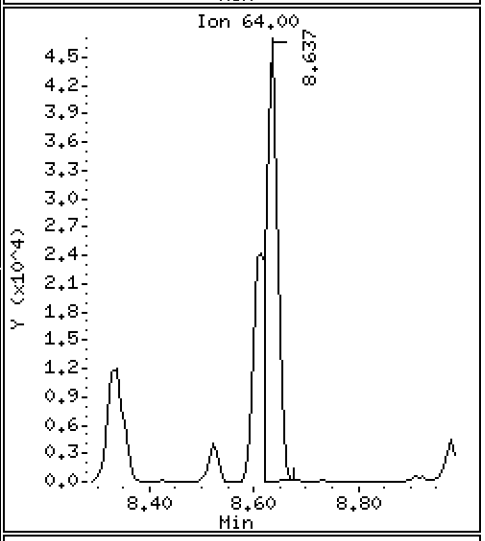
6 2-Chlorophenol

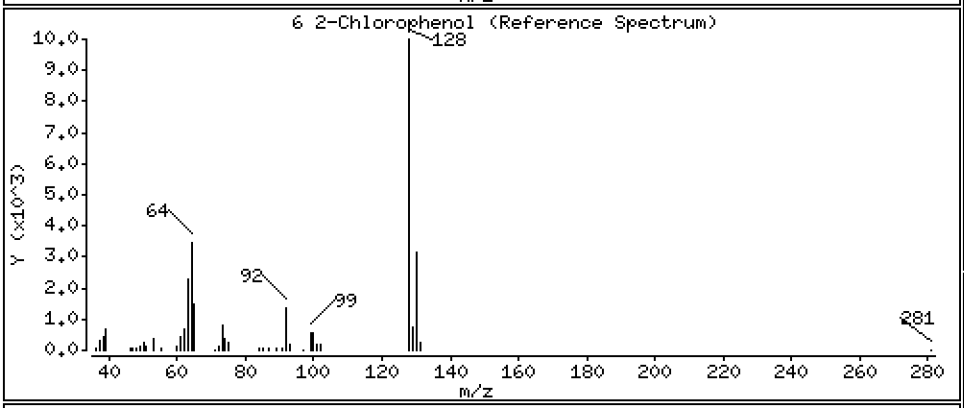
Concentration: 4.135 ug/mL

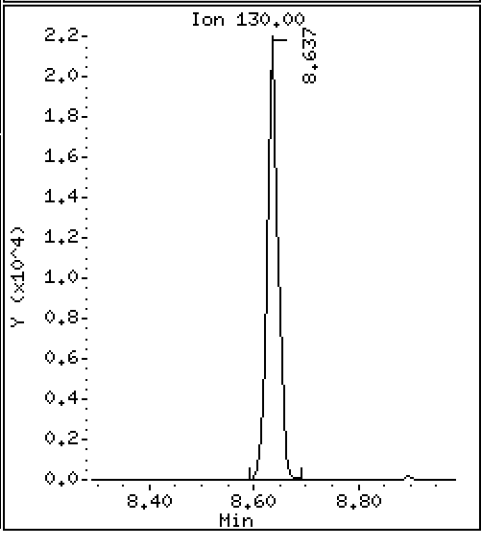


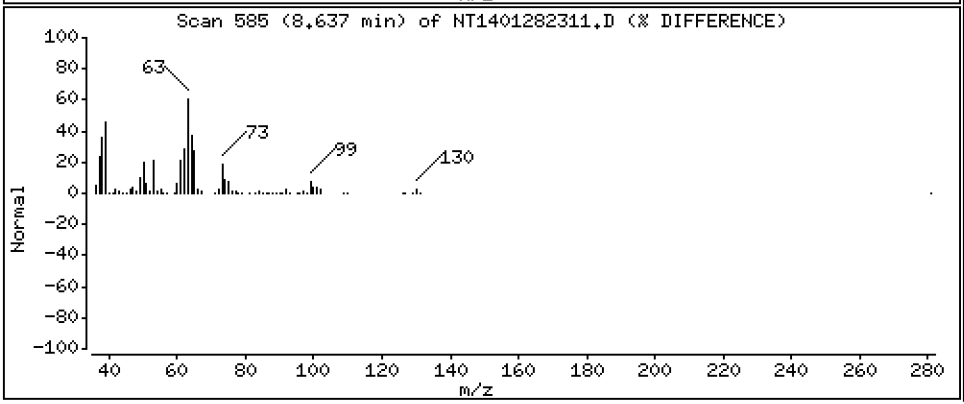












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

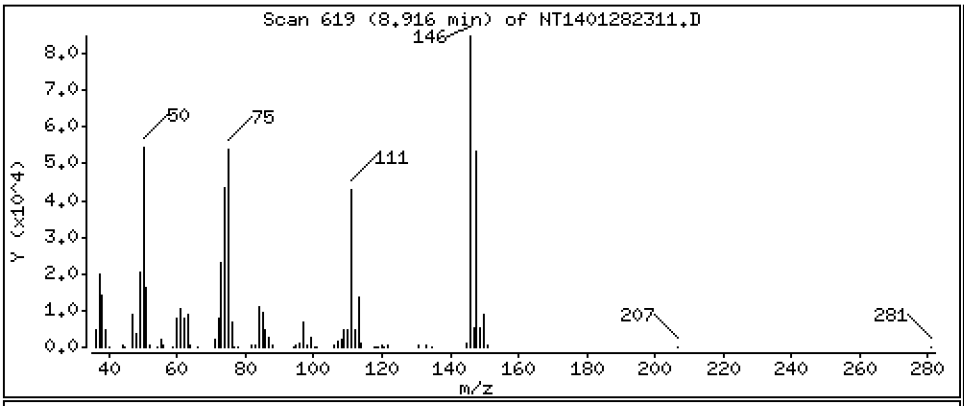
Operator: JGR

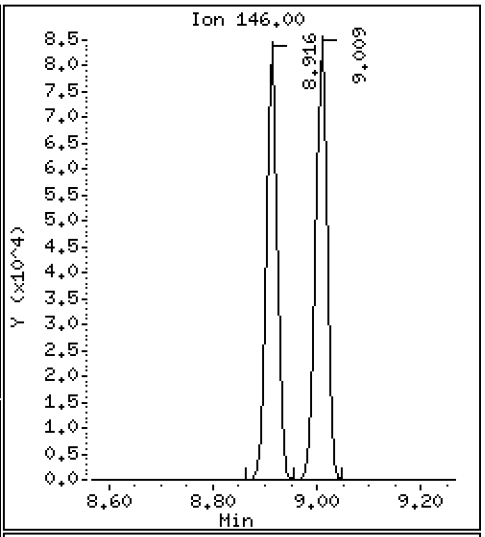
Column phase: ZB-5msi

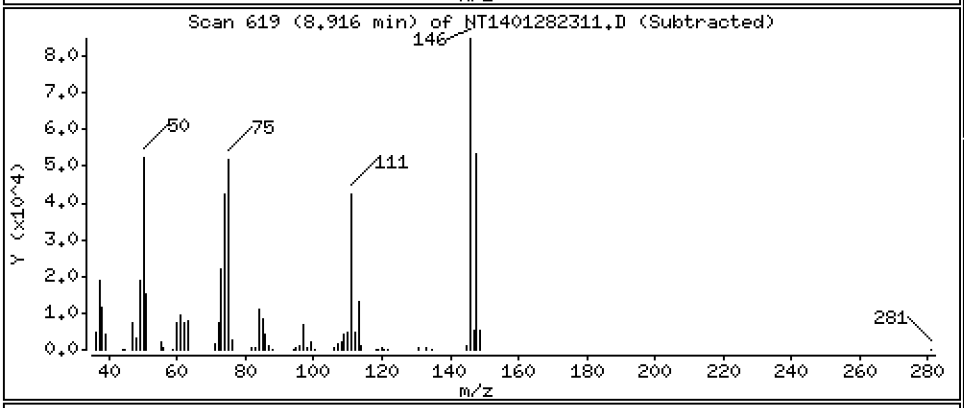
Column diameter: 0.25

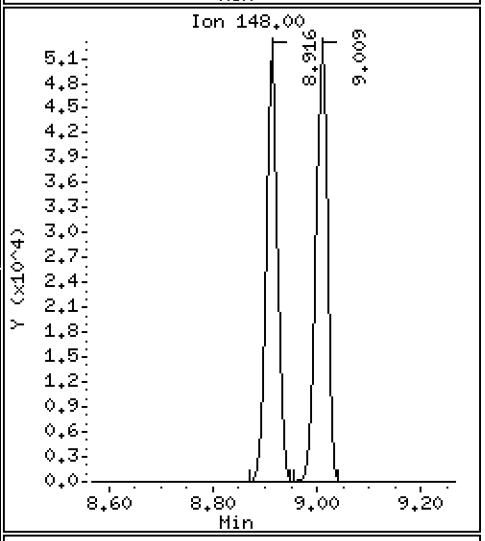
7 1,3-Dichlorobenzene

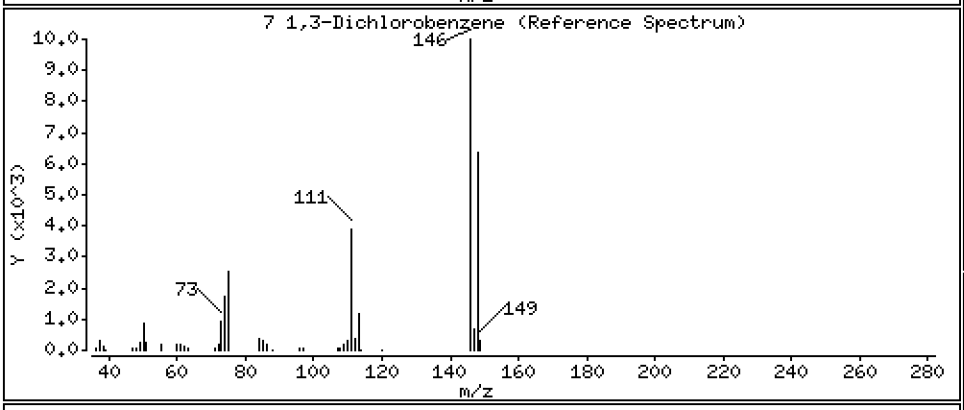
Concentration: 4.675 ug/mL

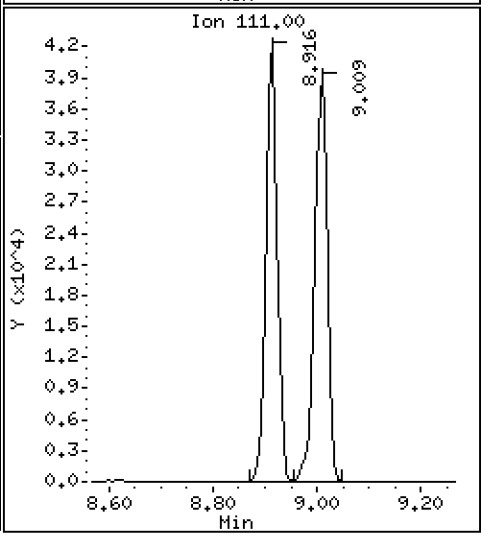


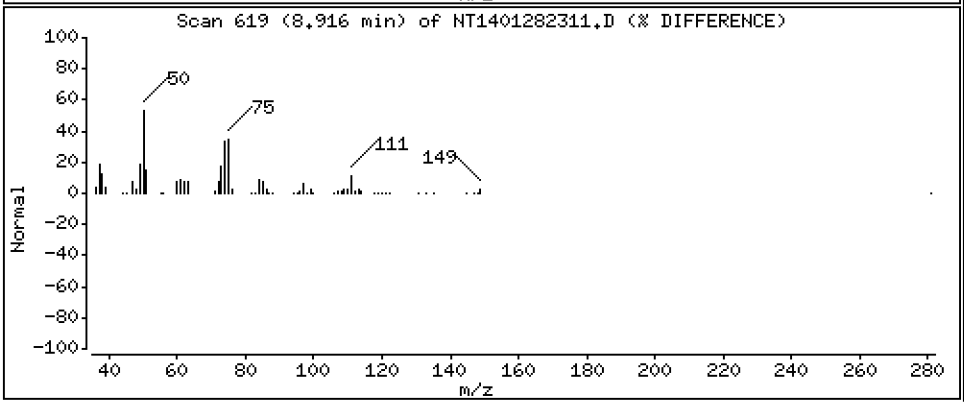












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

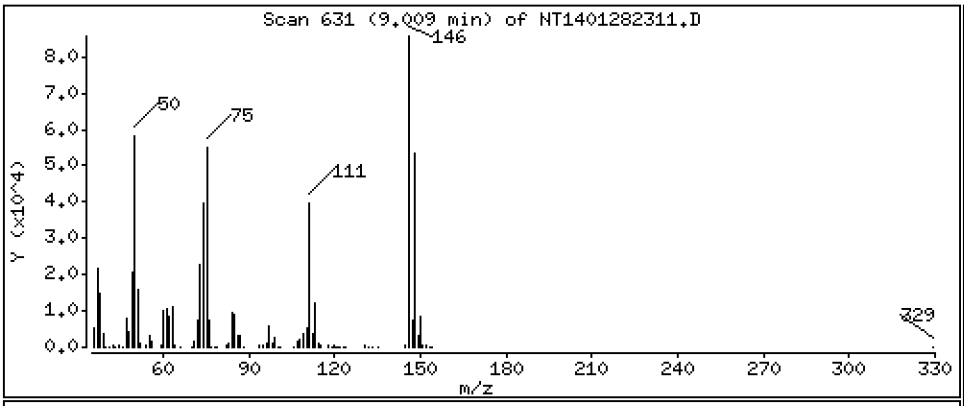
Operator: JGR

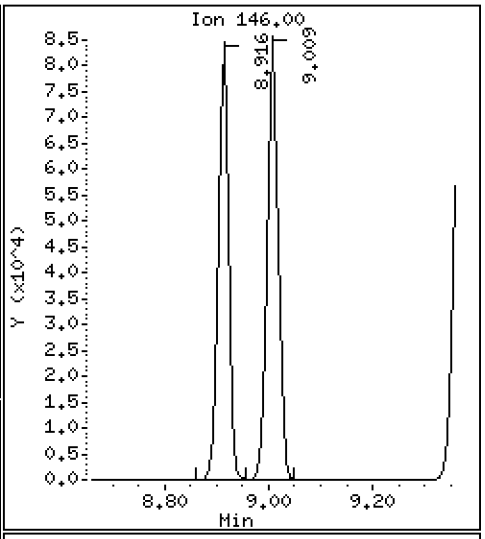
Column phase: ZB-5msi

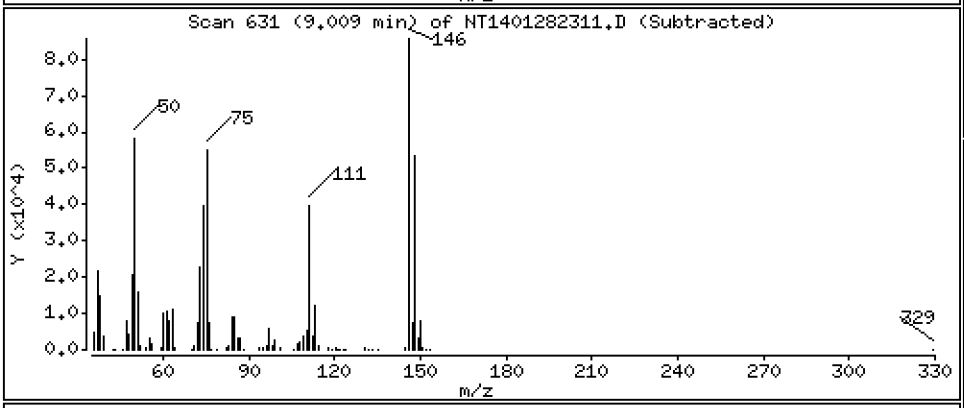
Column diameter: 0.25

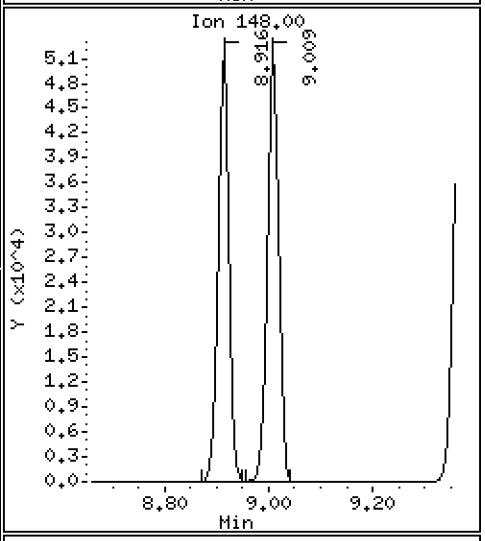
9 1,4-Dichlorobenzene

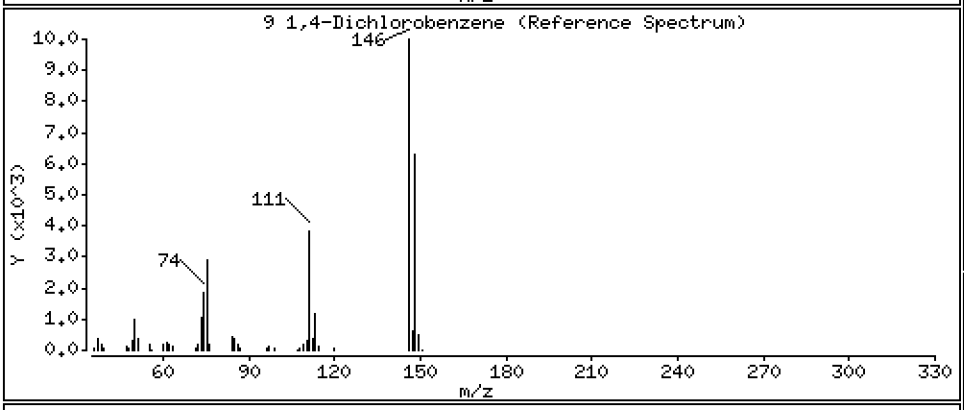
Concentration: 4.650 ug/mL

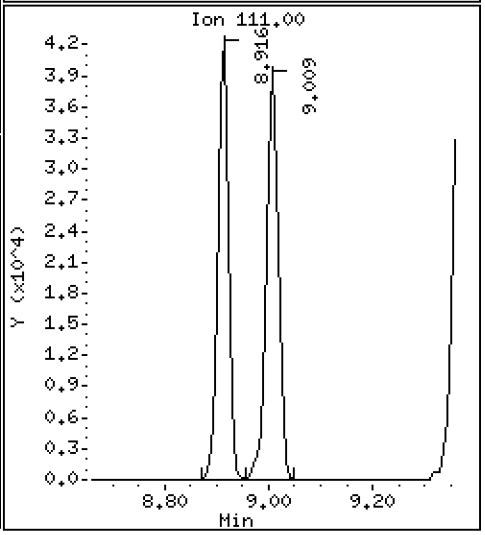


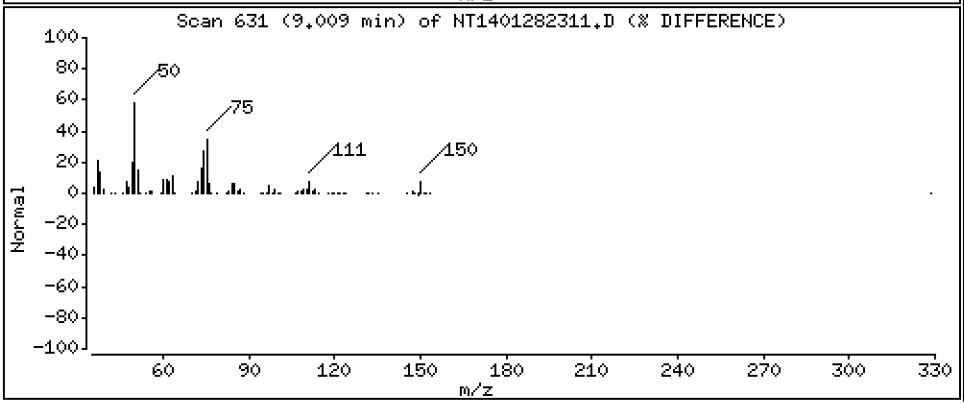












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

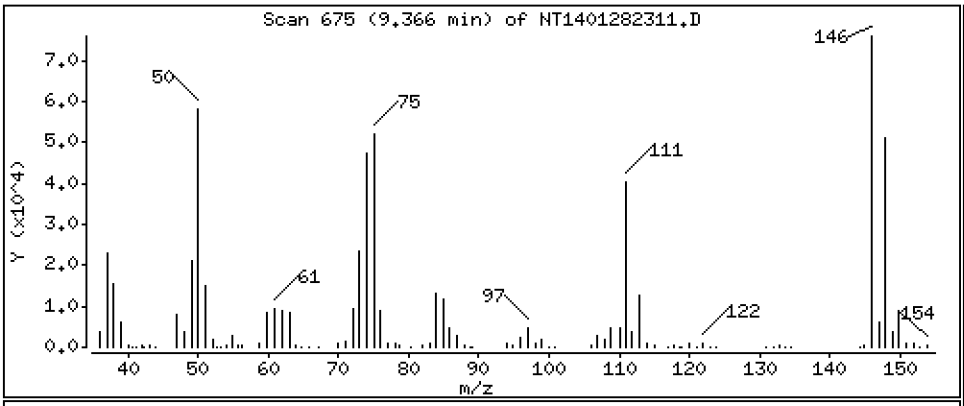
Operator: JGR

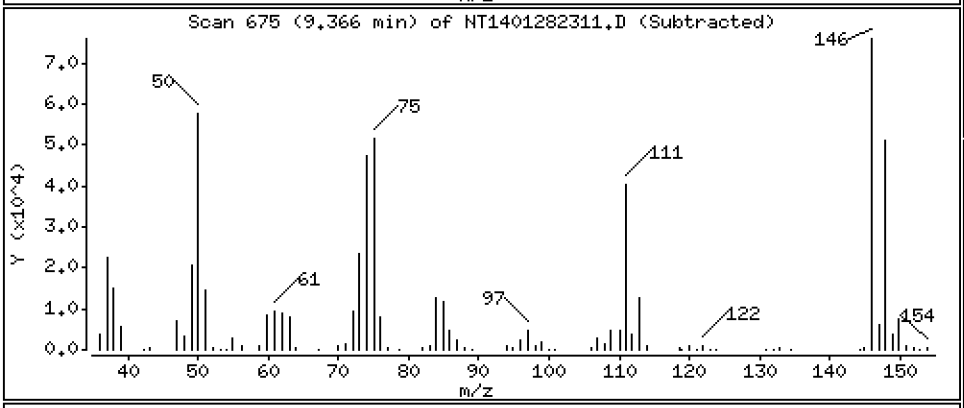
Column phase: ZB-5msi

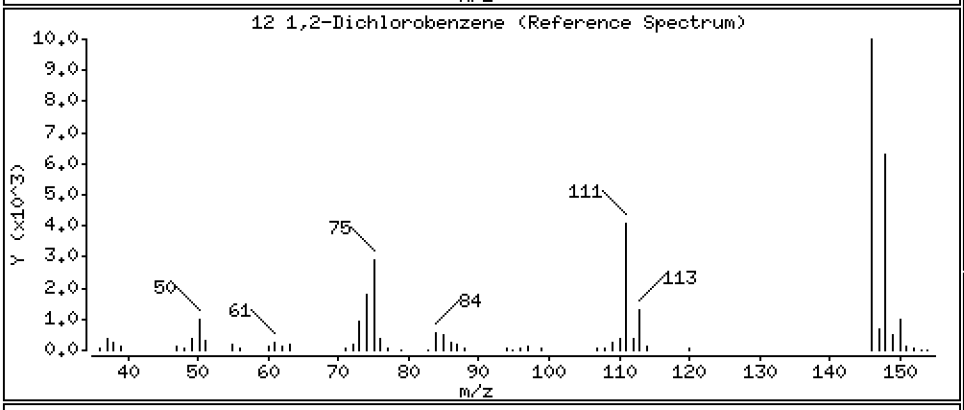
Column diameter: 0.25

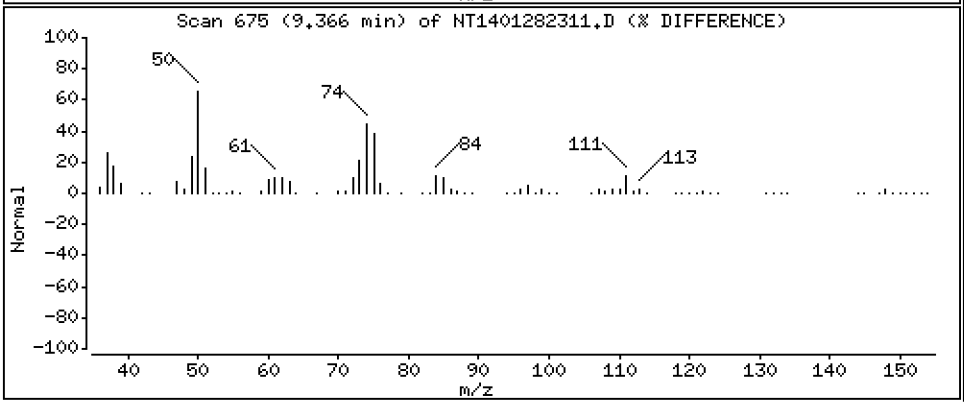
12 1,2-Dichlorobenzene

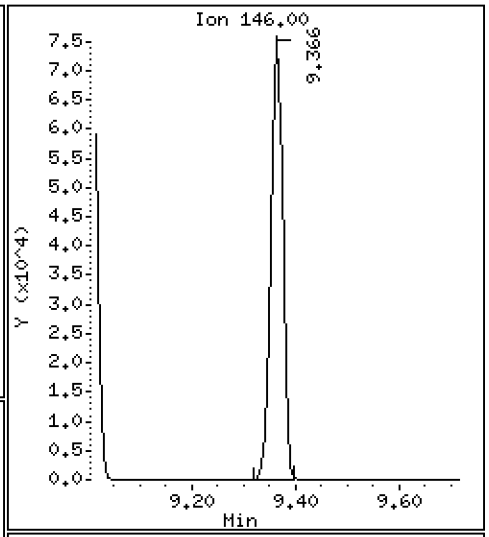
Concentration: 4.351 ug/mL

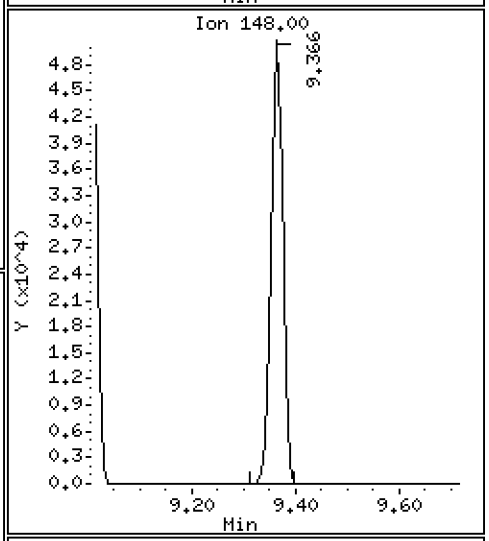


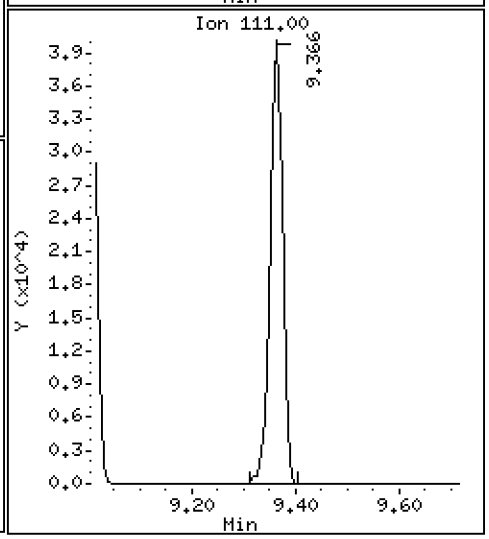












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

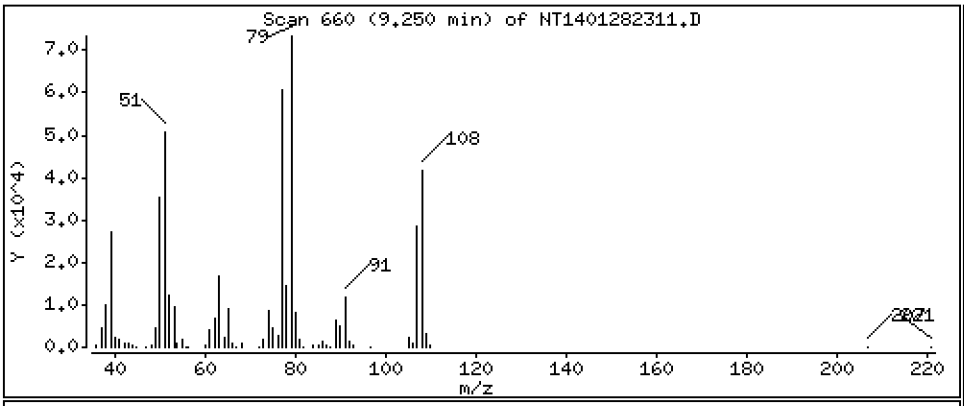
Operator: JGR

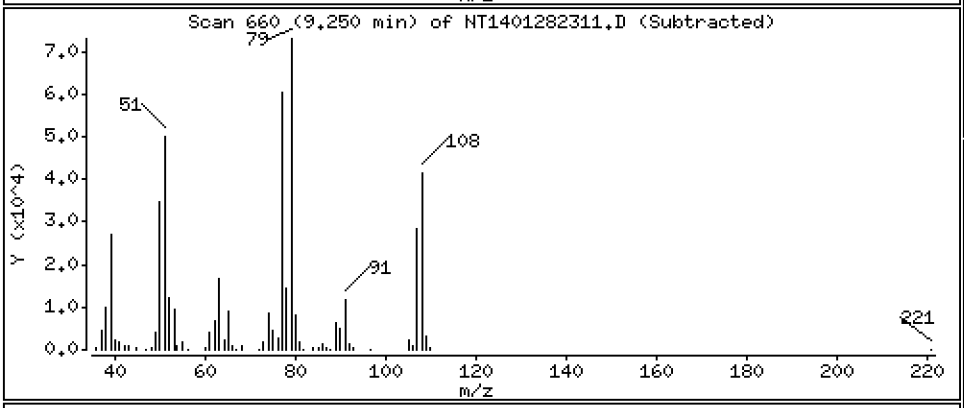
Column phase: ZB-5msi

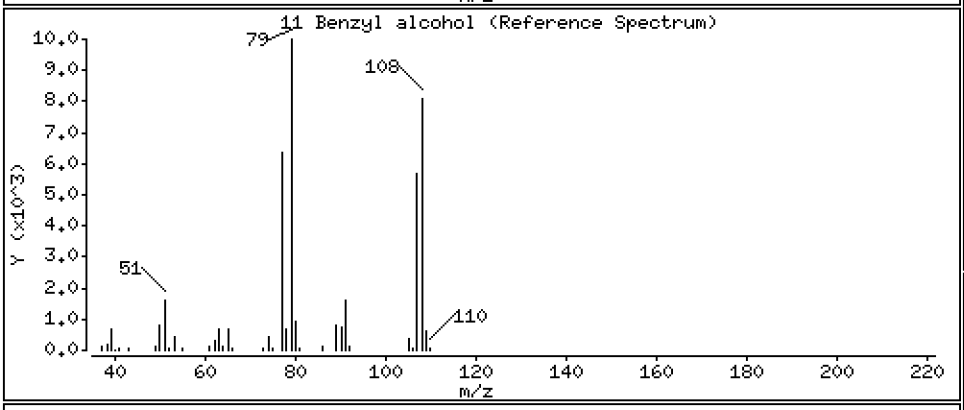
Column diameter: 0.25

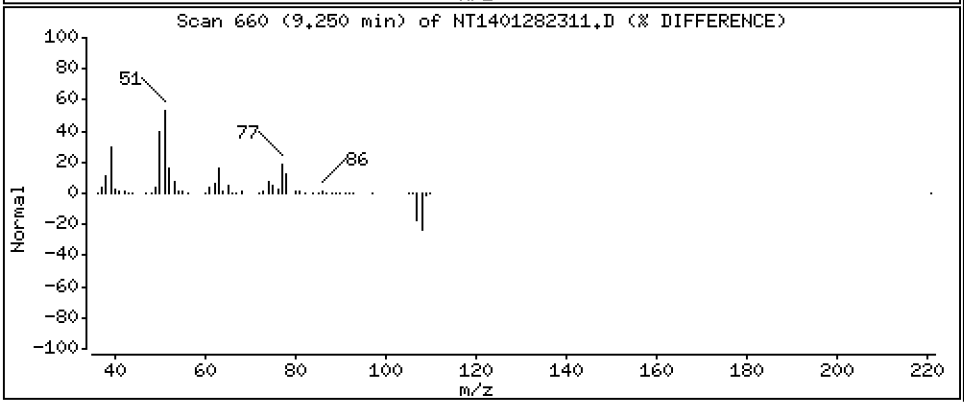
11 Benzyl alcohol

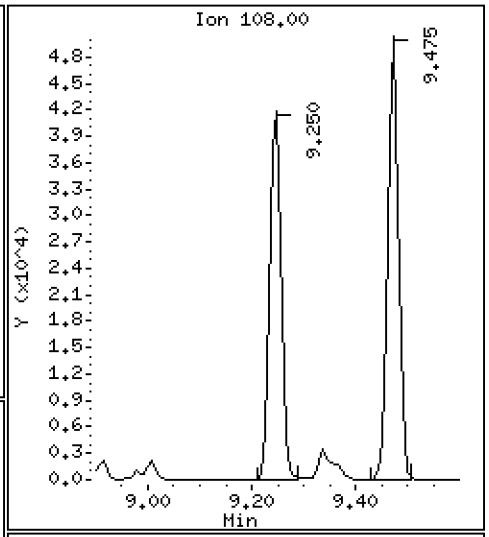
Concentration: 4.416 ug/mL

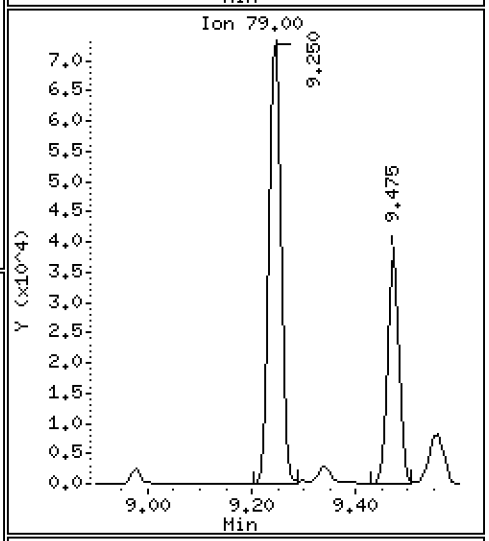


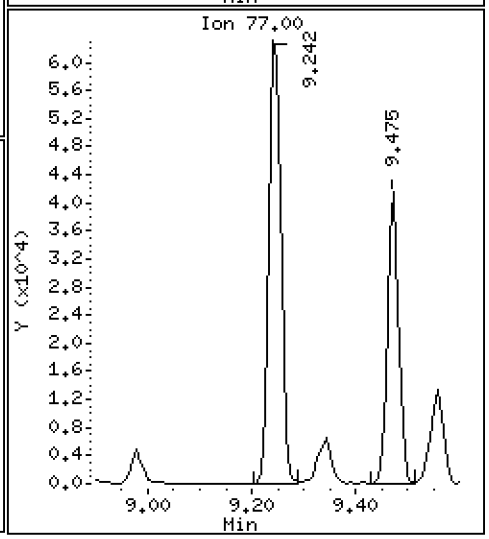












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

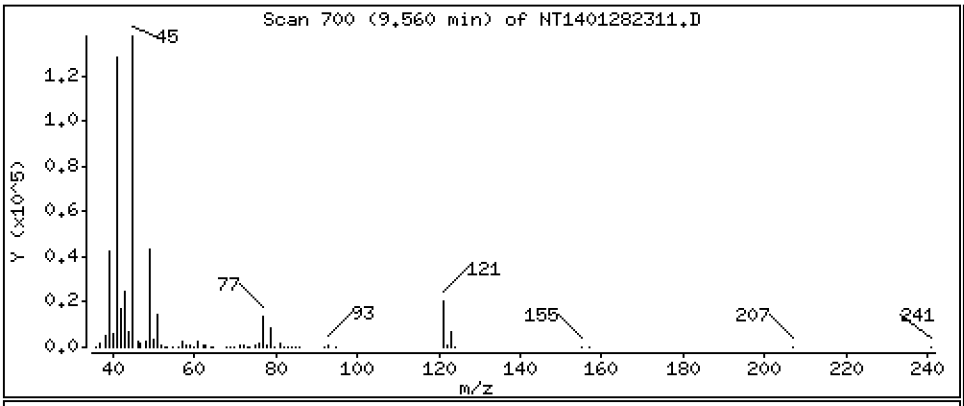
Operator: JGR

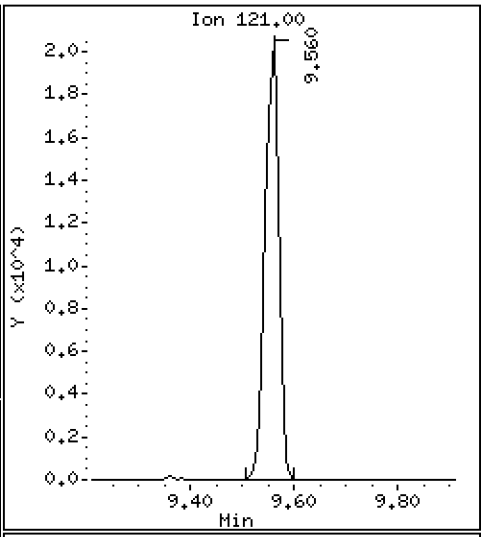
Column phase: ZB-5msi

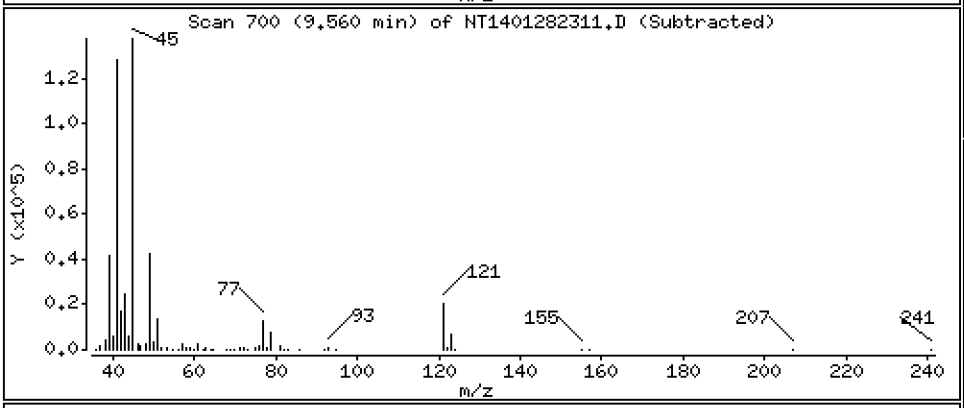
Column diameter: 0.25

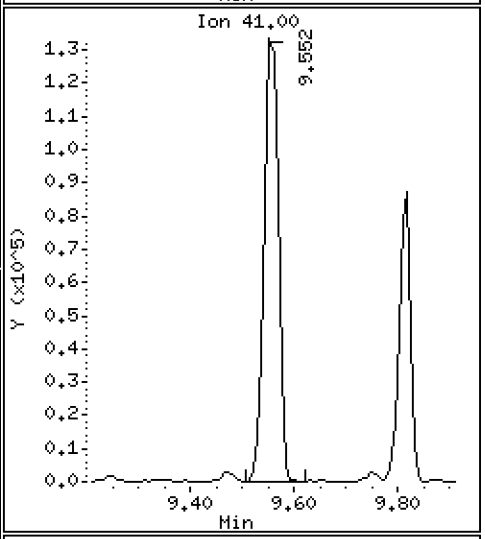
14 2,2'-oxybis(1-Chloropropane)

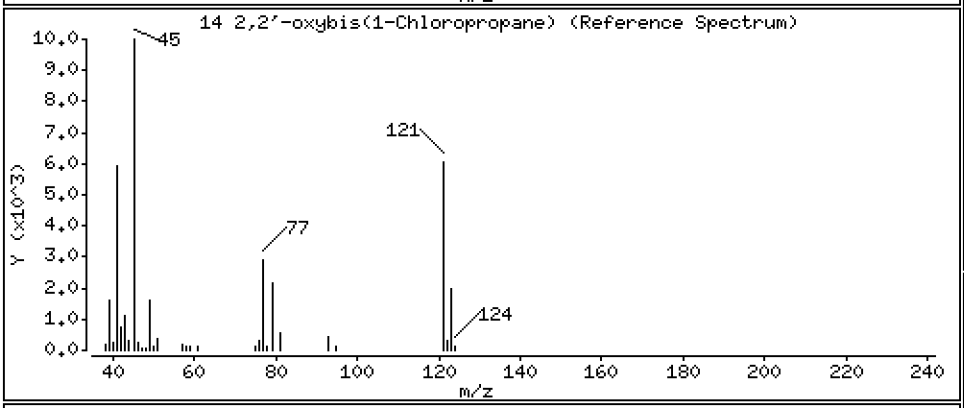
Concentration: 4.977 ug/mL

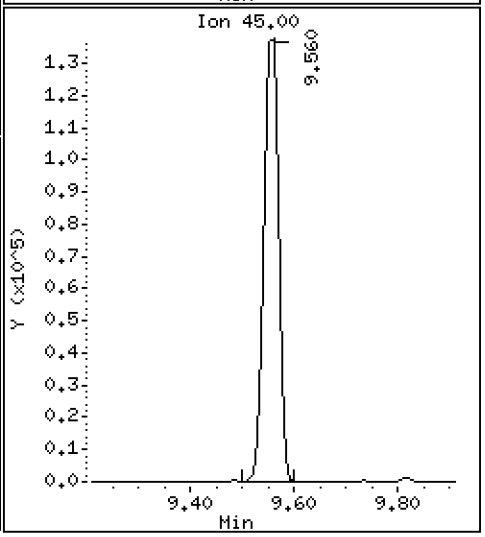


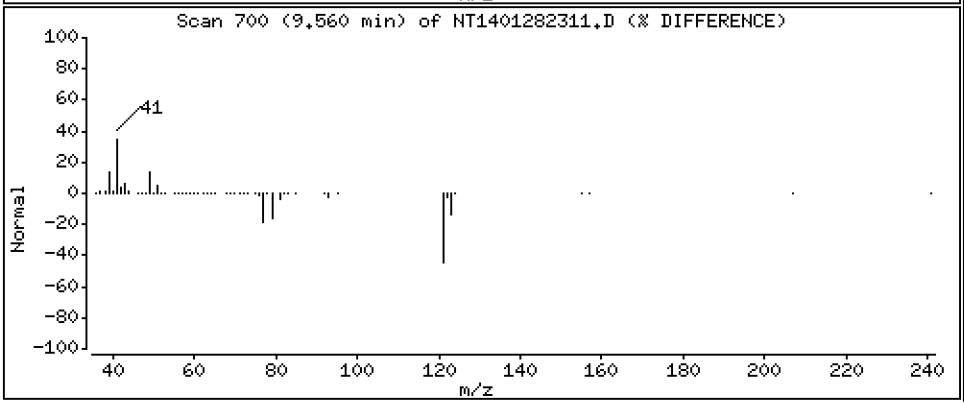












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

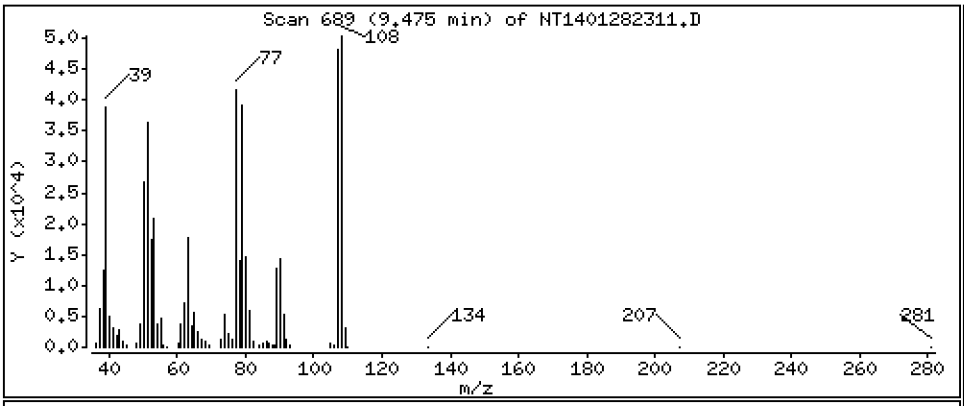
Operator: JGR

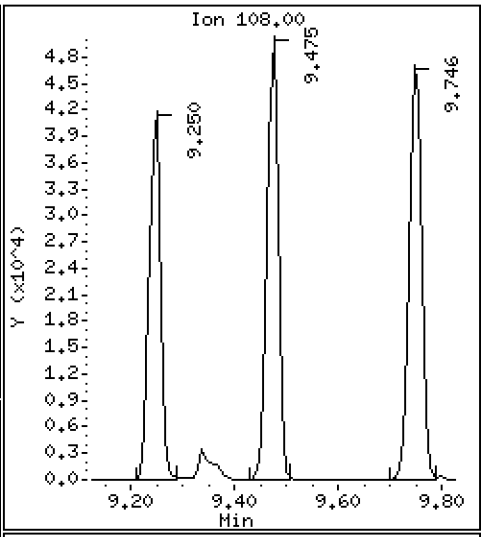
Column phase: ZB-5msi

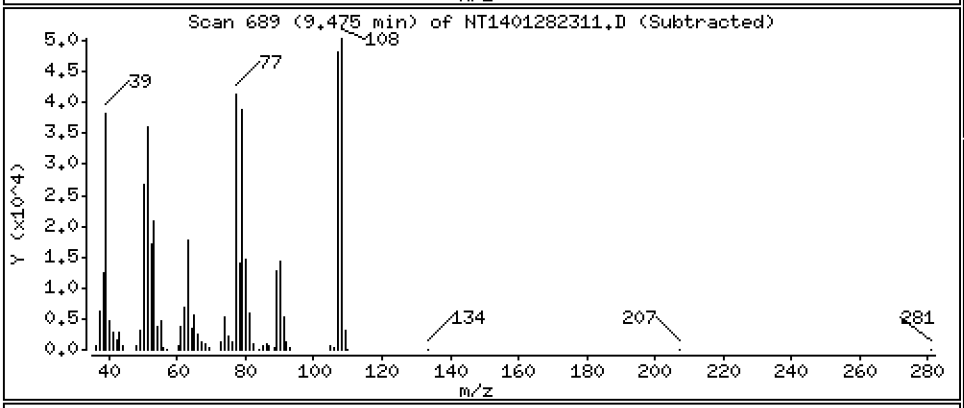
Column diameter: 0.25

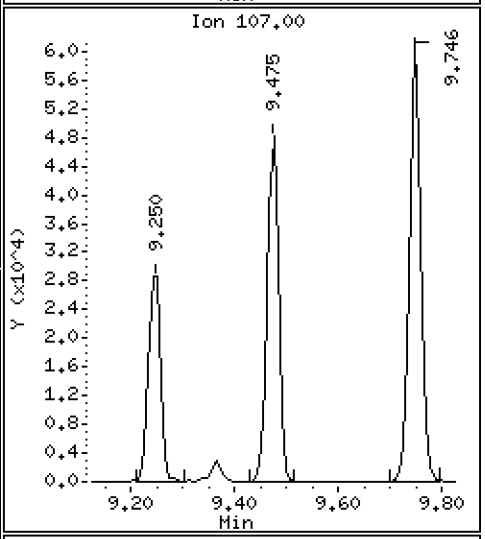
13 2-Methylphenol

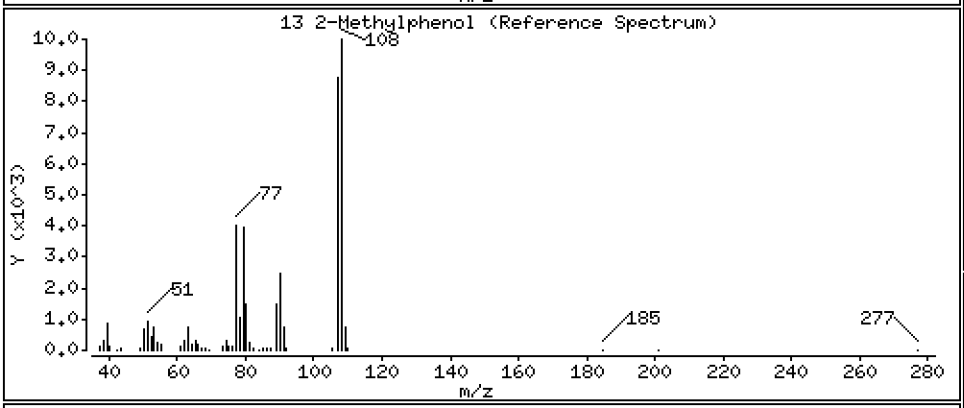
Concentration: 3.303 ug/mL

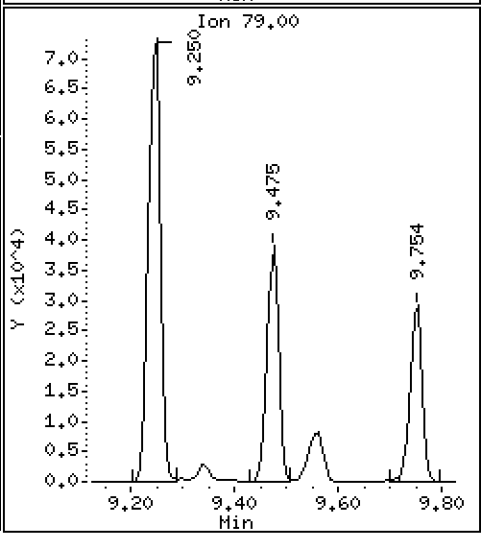


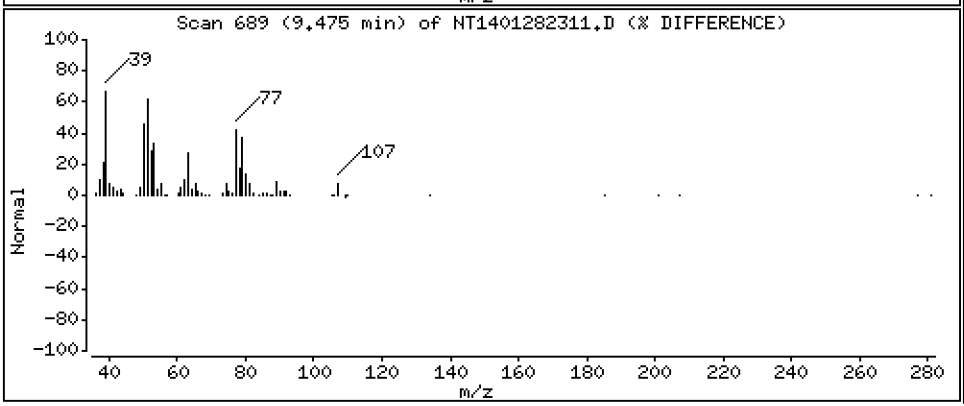












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

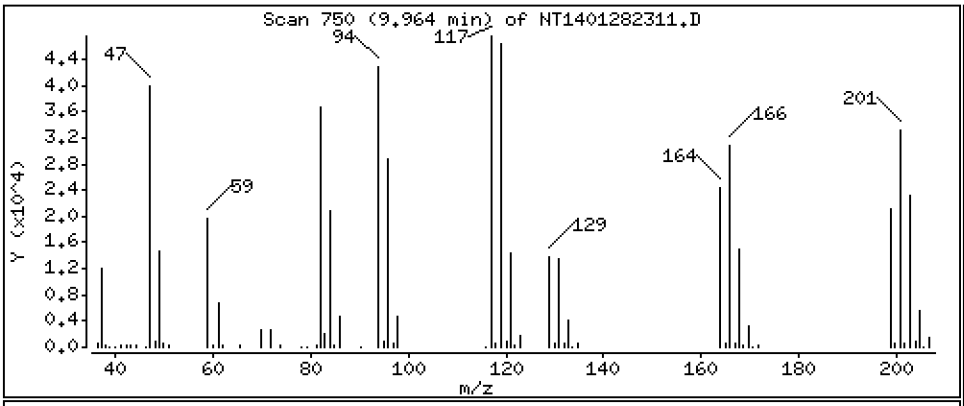
Operator: JGR

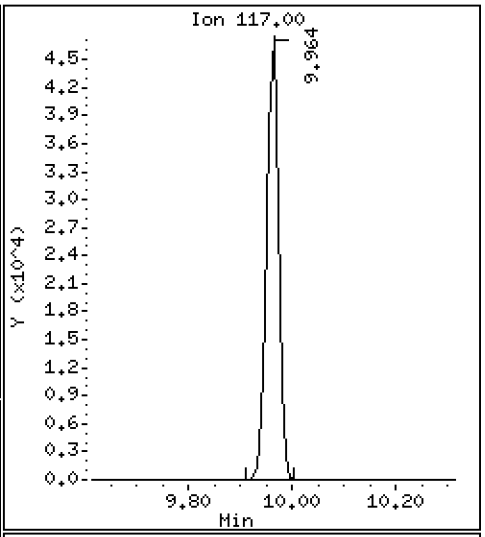
Column phase: ZB-5msi

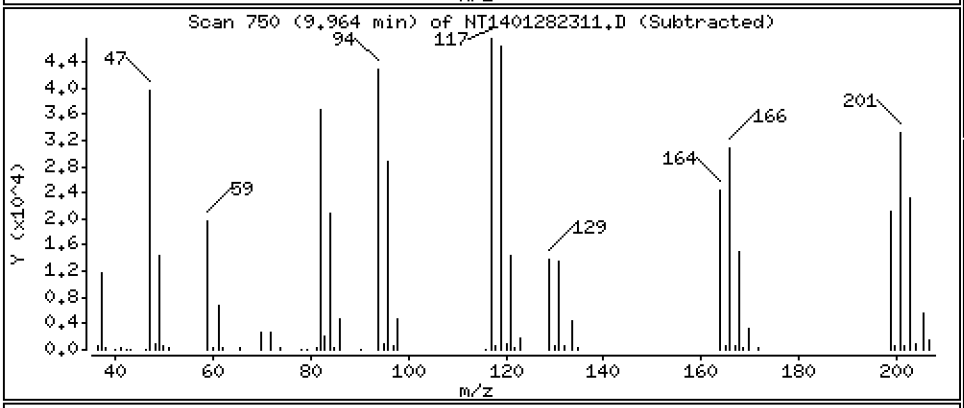
Column diameter: 0.25

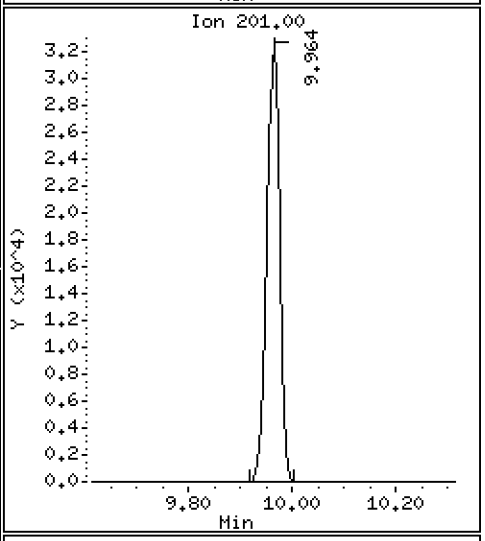
17 Hexachloroethane

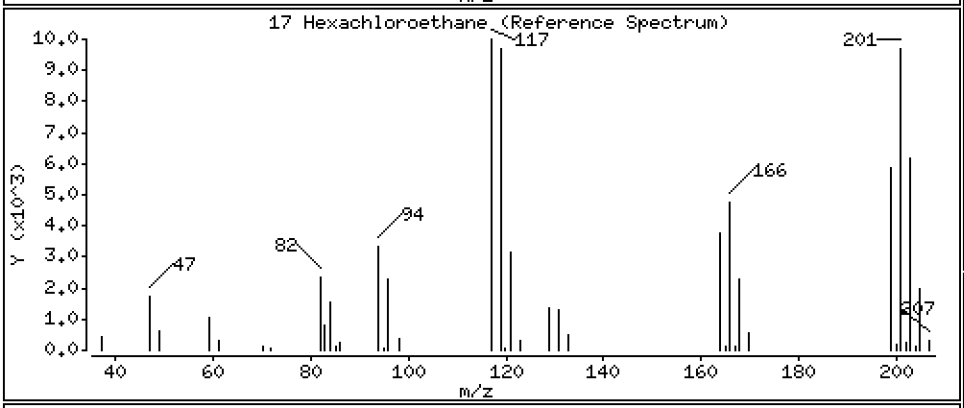
Concentration: 4.493 ug/mL

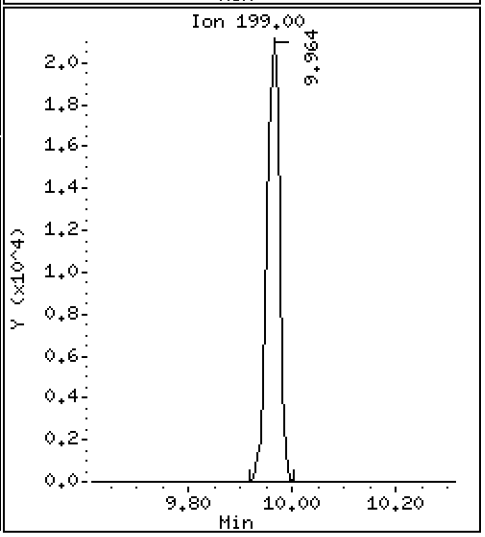


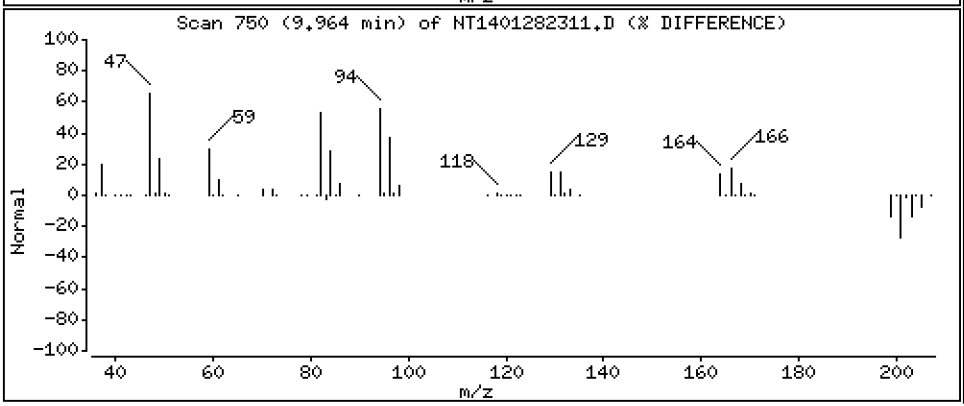












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

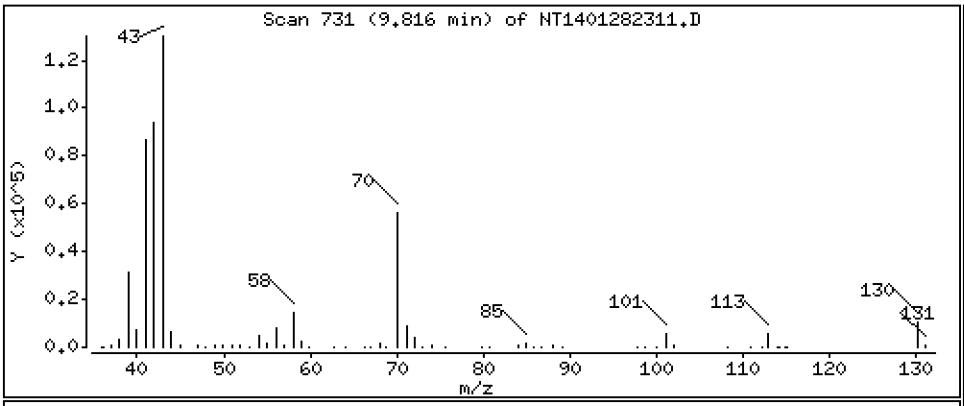
Operator: JGR

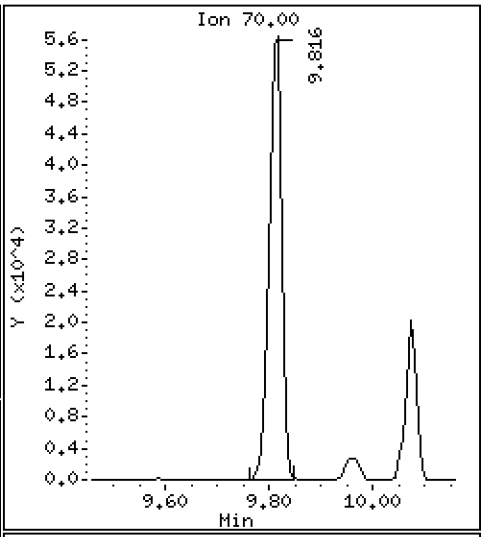
Column phase: ZB-5msi

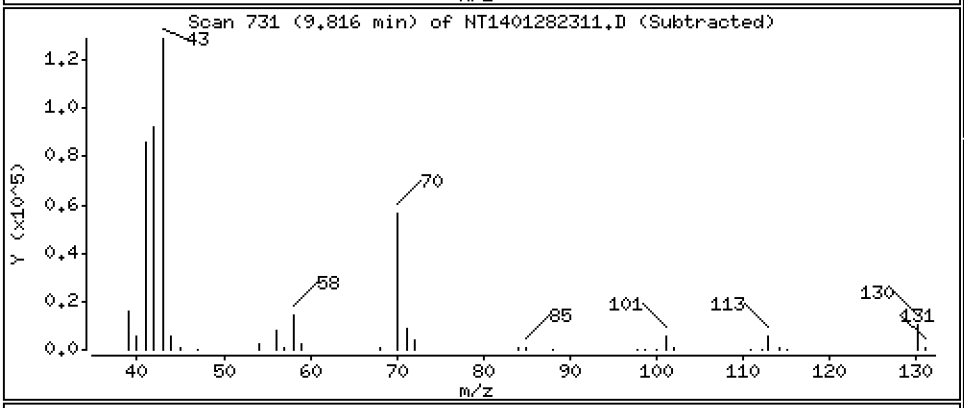
Column diameter: 0.25

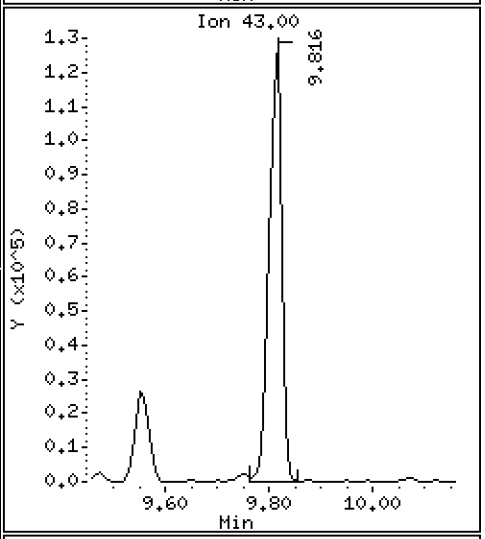
16 N-Nitroso-di-n-propylamine

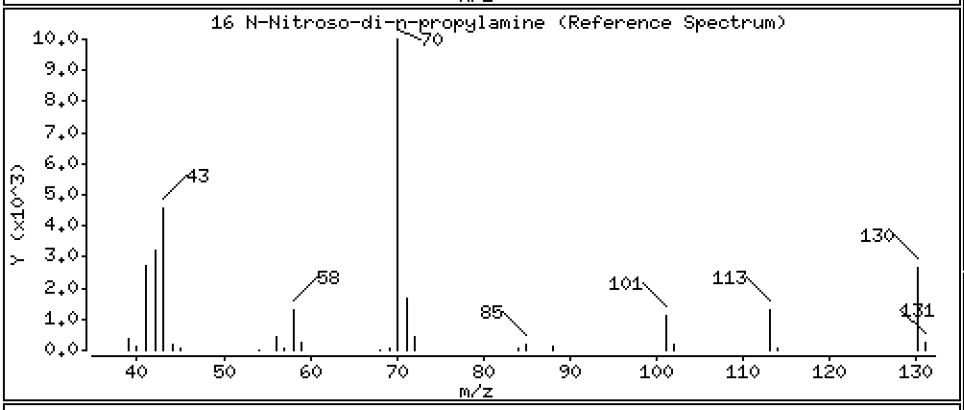
Concentration: 4.835 ug/mL

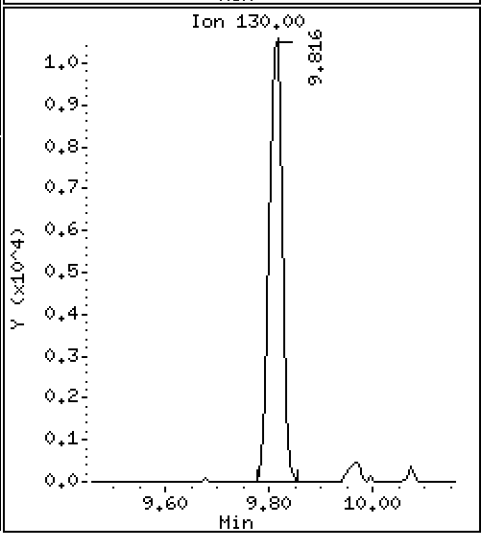


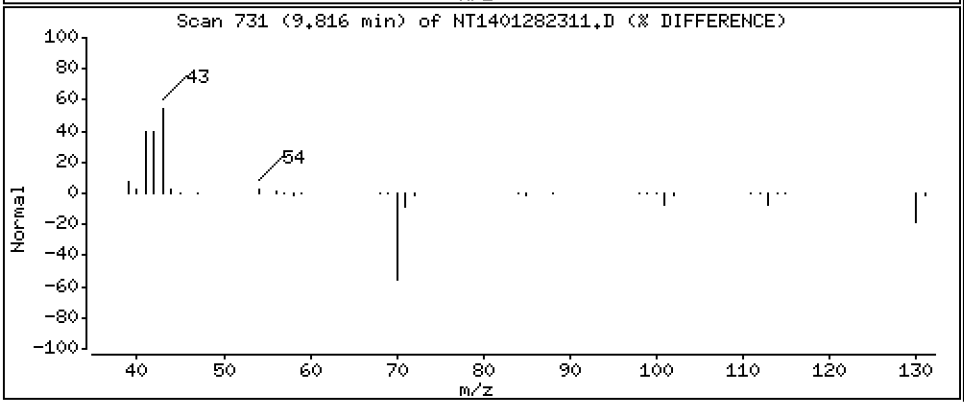












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

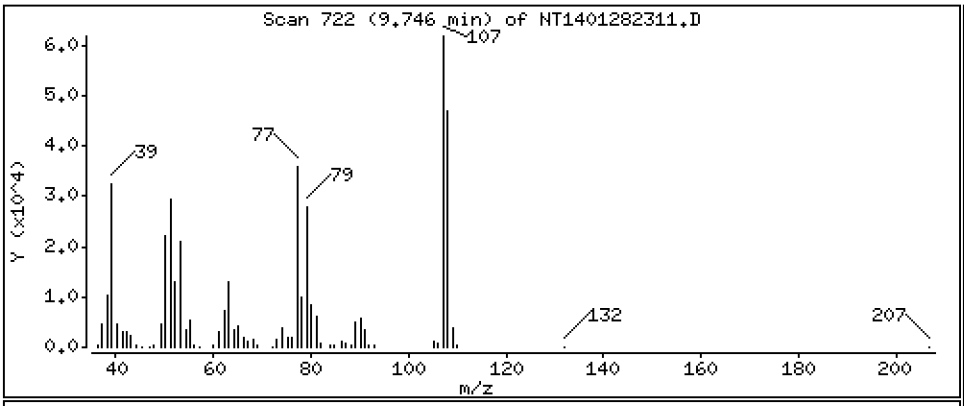
Operator: JGR

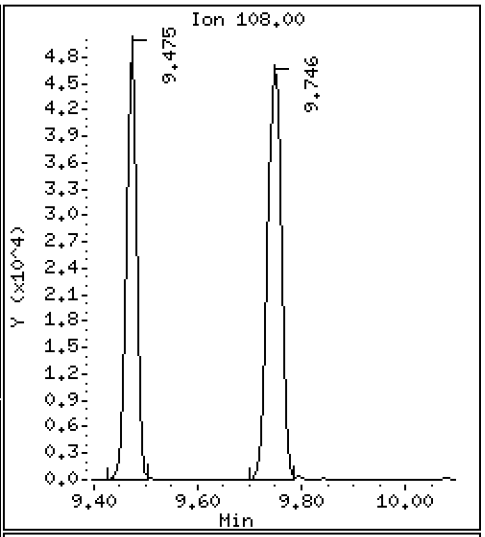
Column phase: ZB-5msi

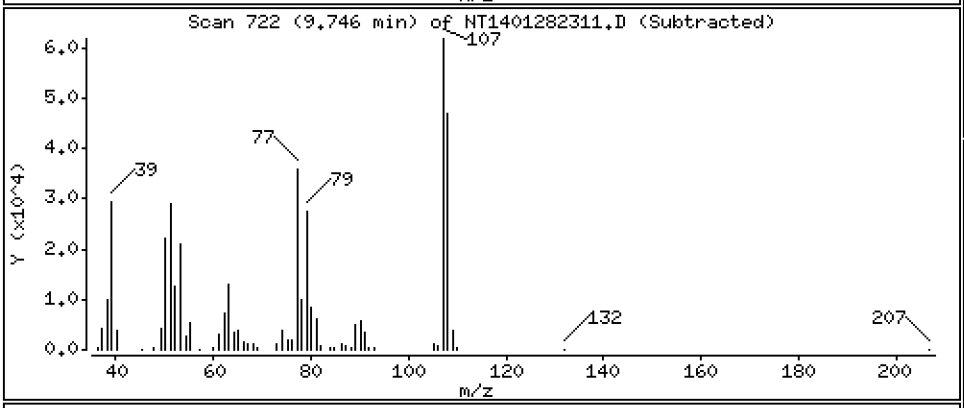
Column diameter: 0.25

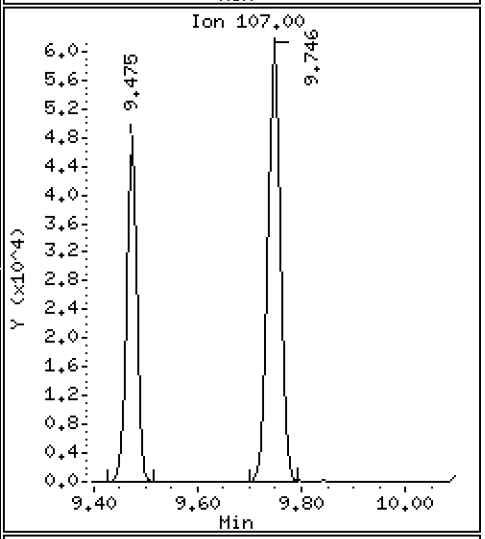
15 4-Methylphenol

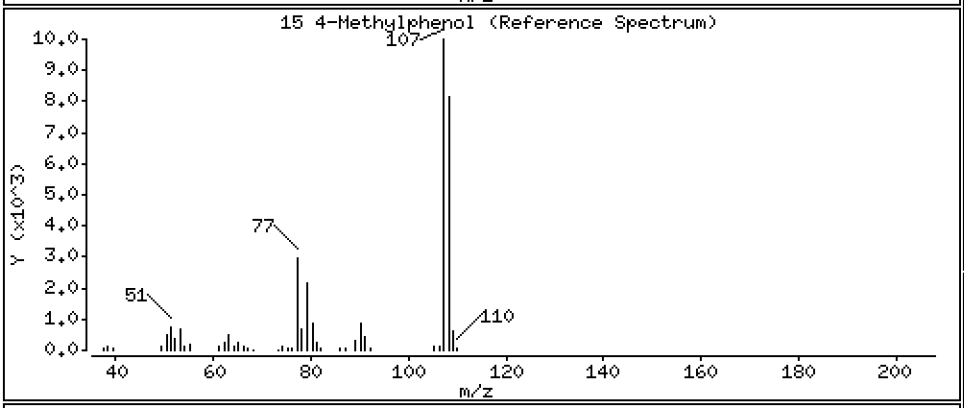
Concentration: 3.427 ug/mL

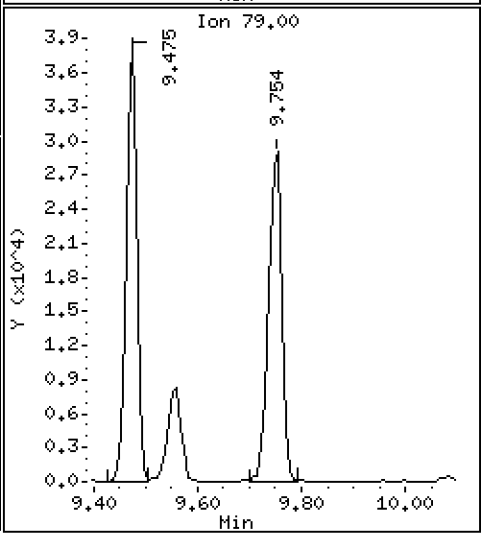


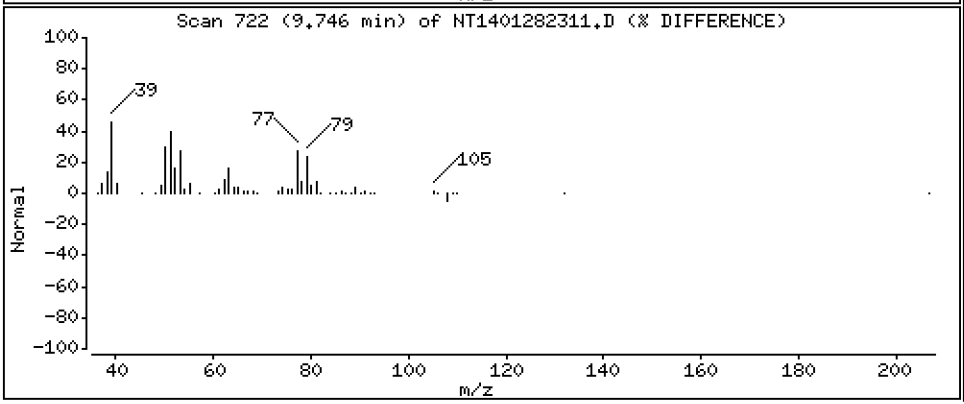












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

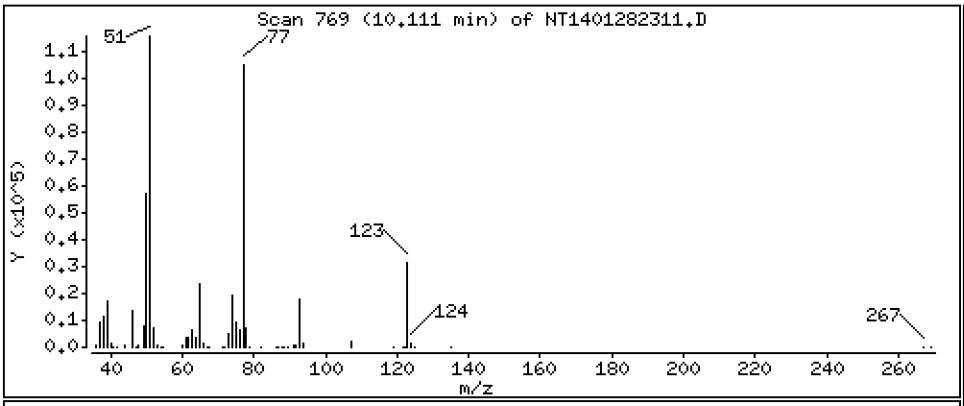
Operator: JGR

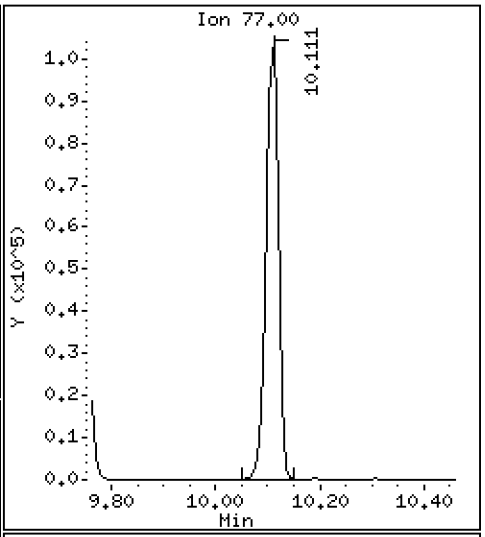
Column phase: ZB-5msi

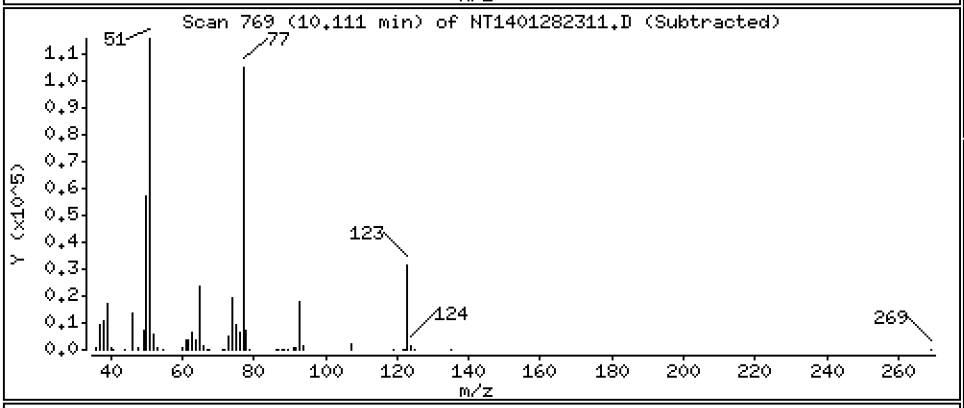
Column diameter: 0.25

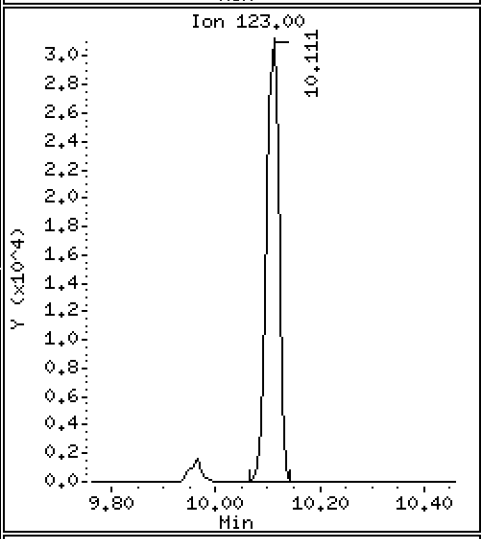
19 Nitrobenzene

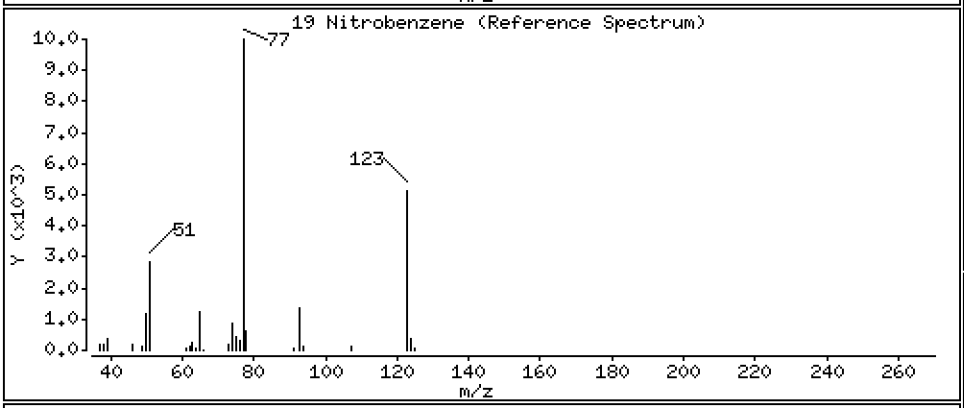
Concentration: 4.913 ug/mL

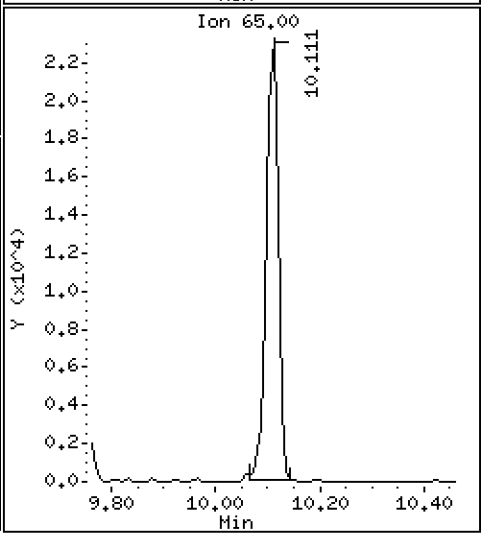


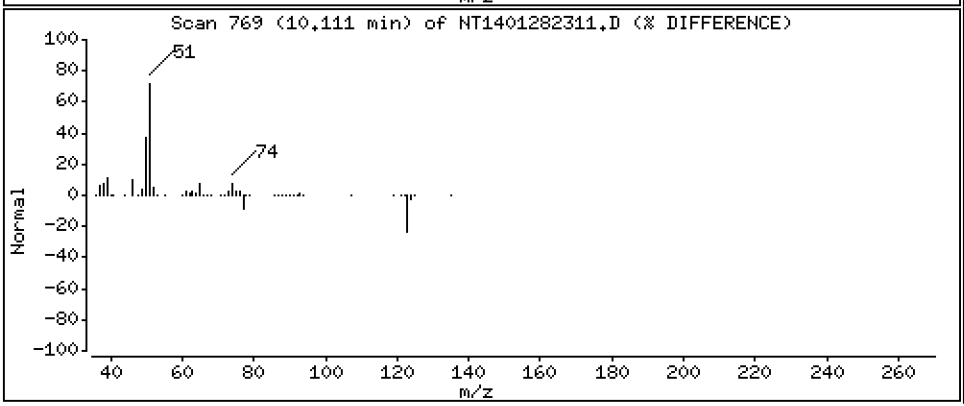












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

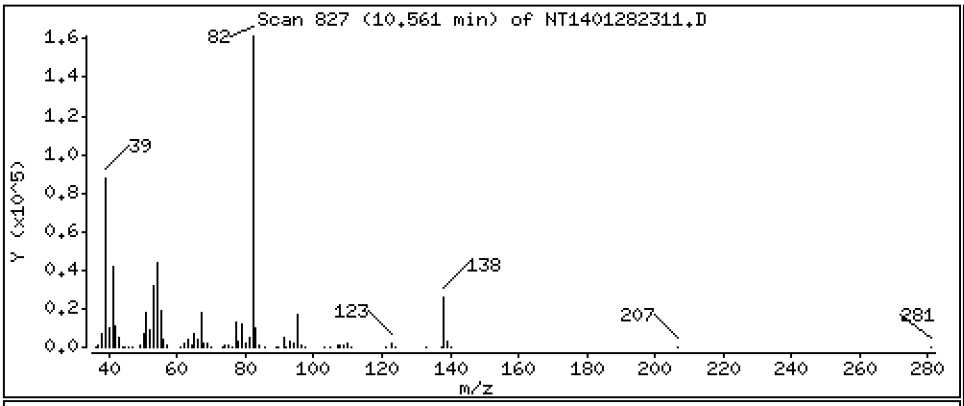
Operator: JGR

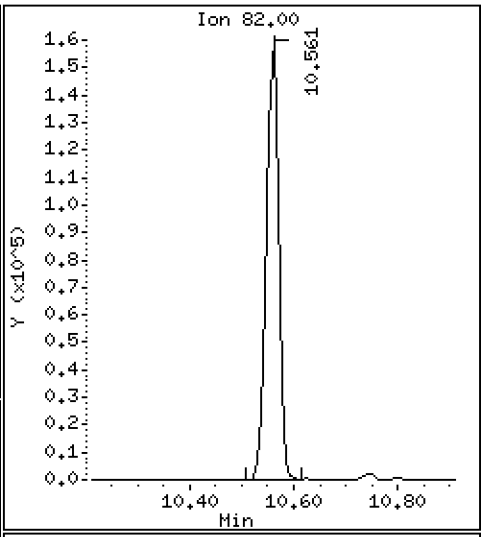
Column phase: ZB-5msi

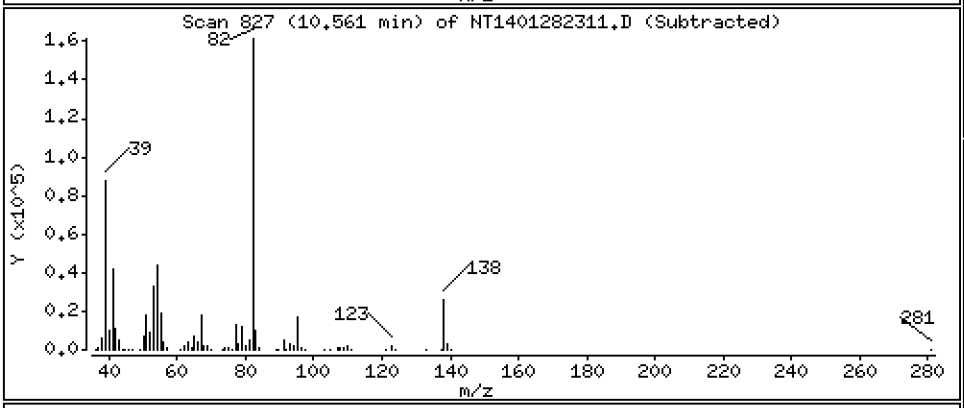
Column diameter: 0.25

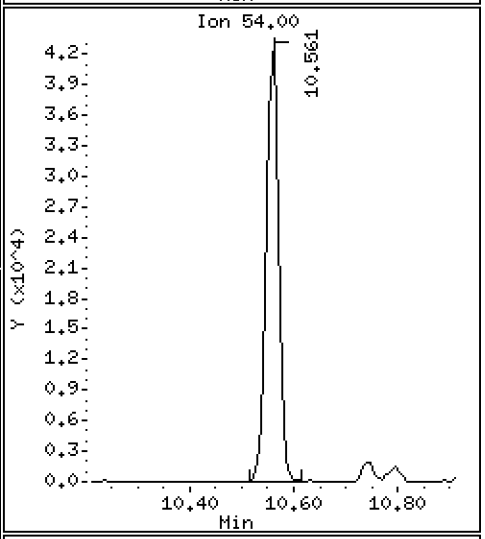
20 Isophorone

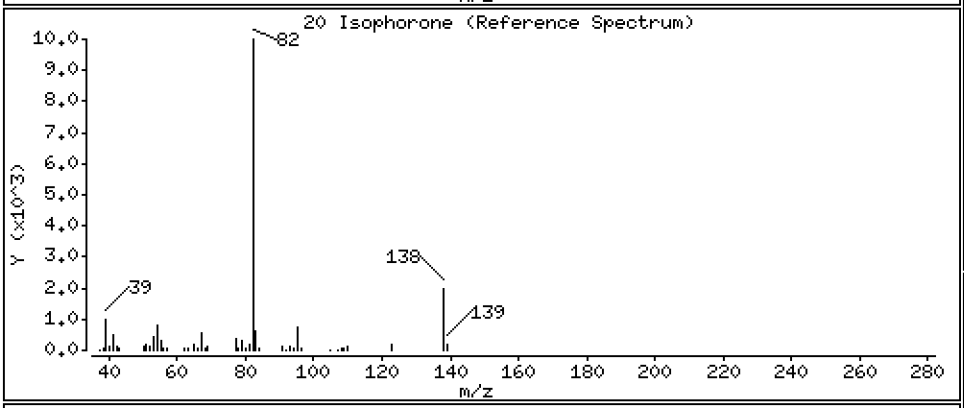
Concentration: 6.593 ug/mL

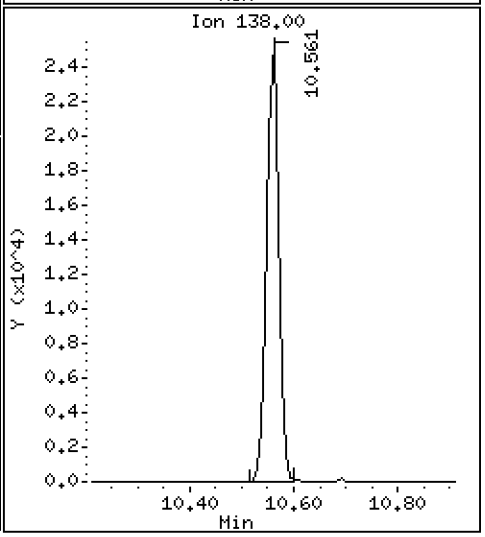


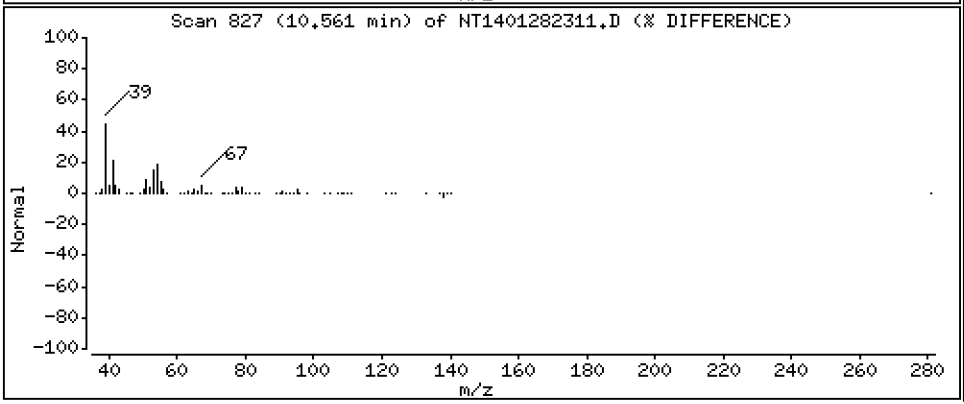












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

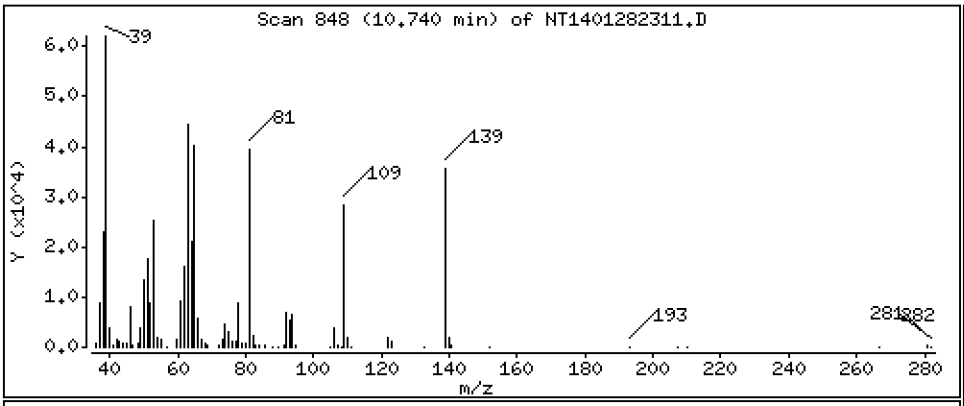
Operator: JGR

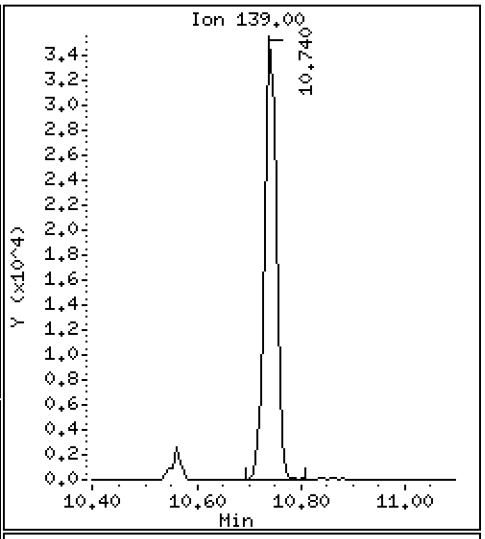
Column phase: ZB-5msi

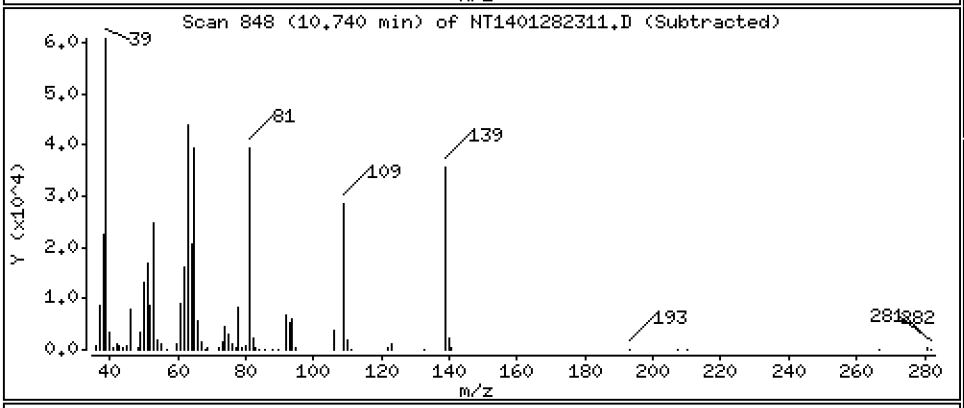
Column diameter: 0.25

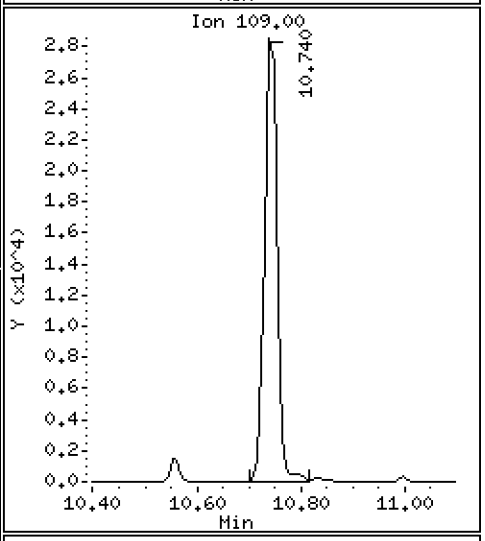
21 2-Nitrophenol

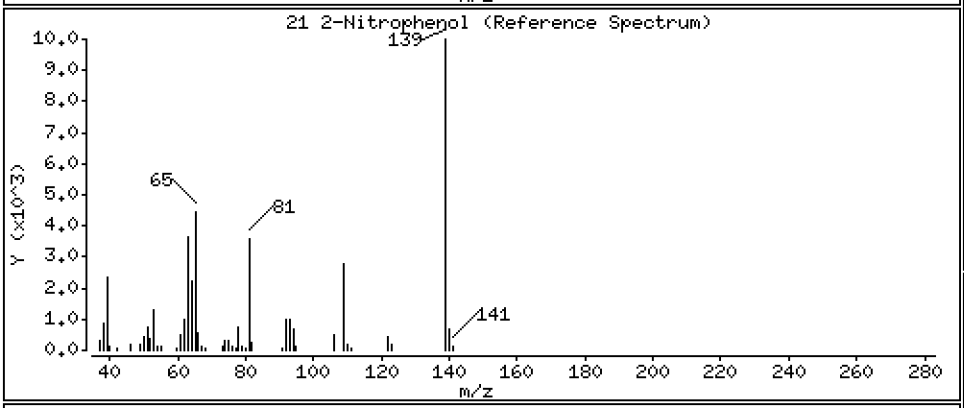
Concentration: 4.134 ug/mL

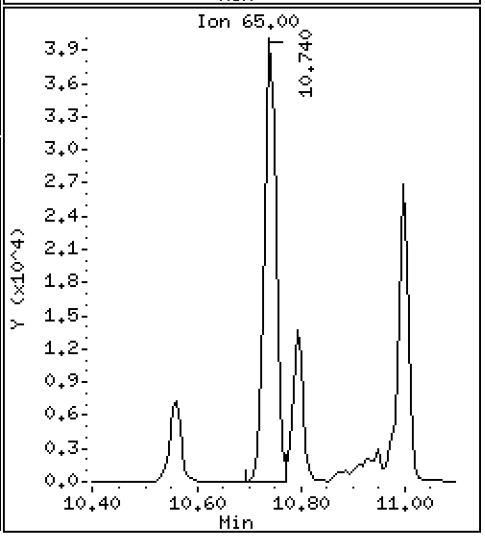


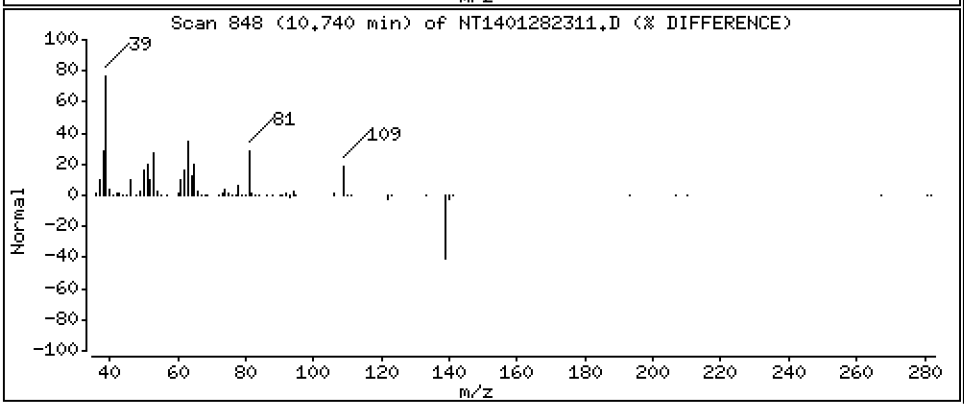












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

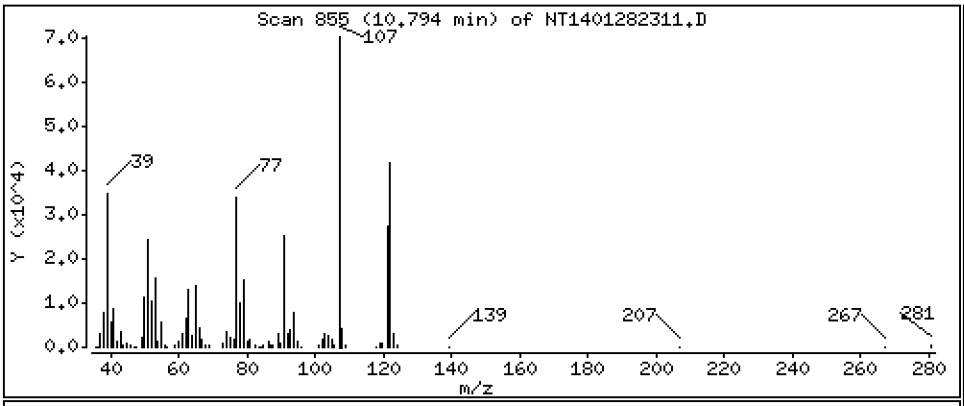
Operator: JGR

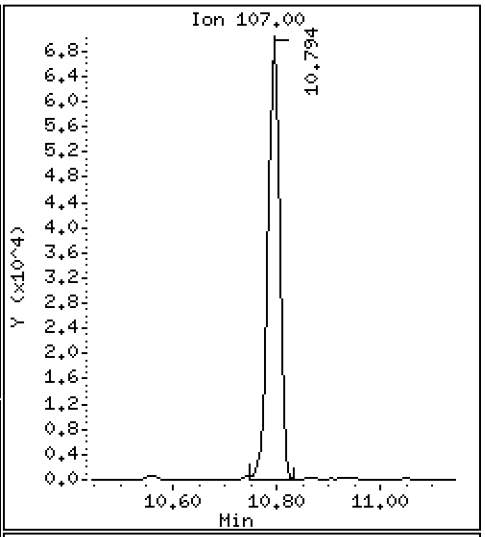
Column phase: ZB-5msi

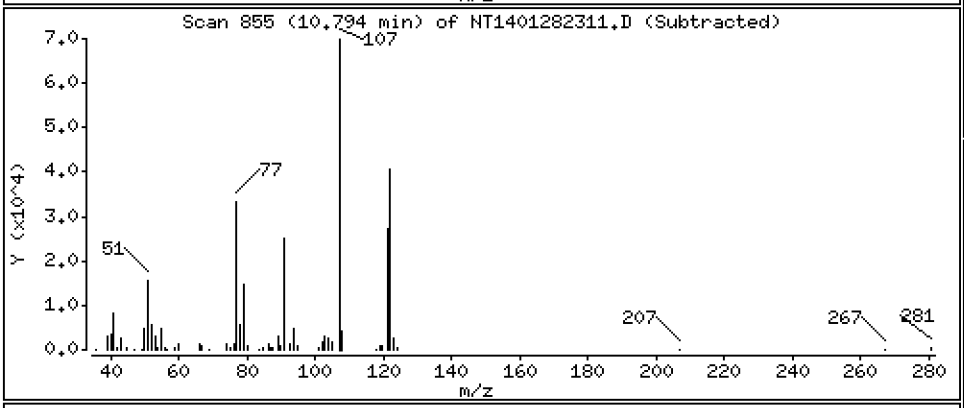
Column diameter: 0.25

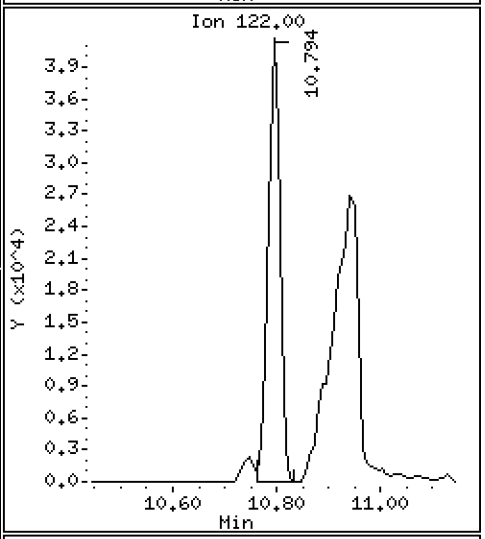
22 2,4-Dimethylphenol

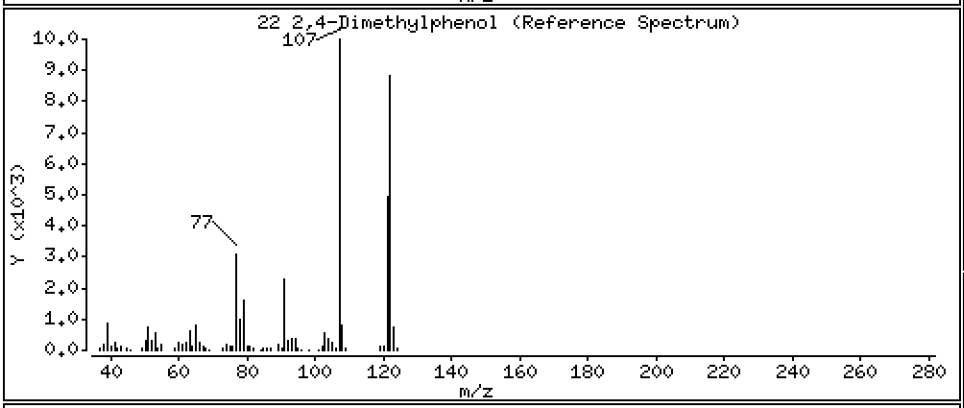
Concentration: 3.034 ug/mL

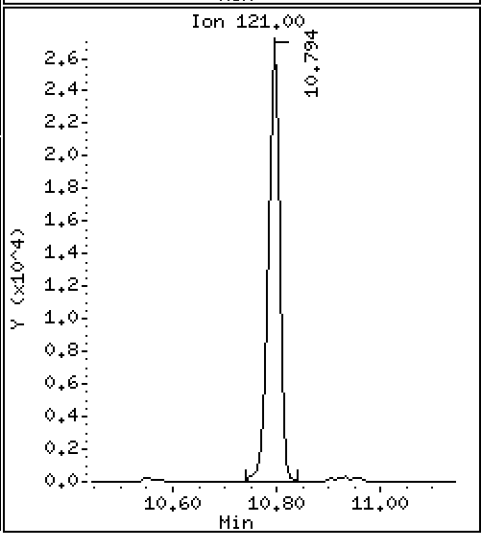


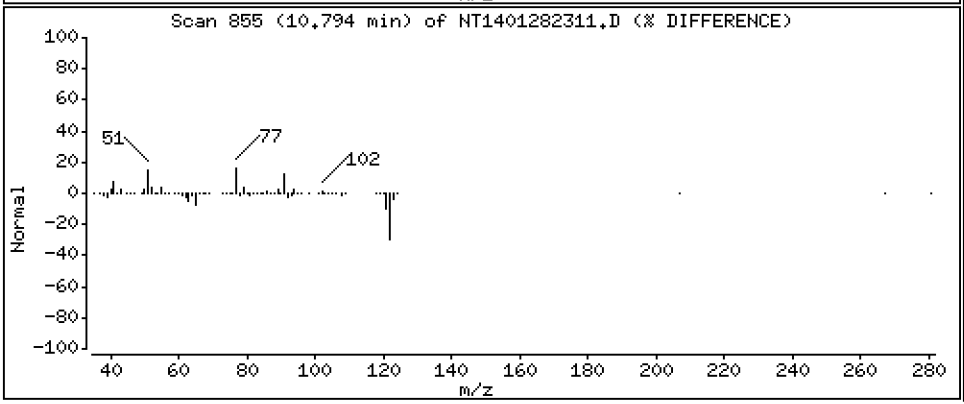












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

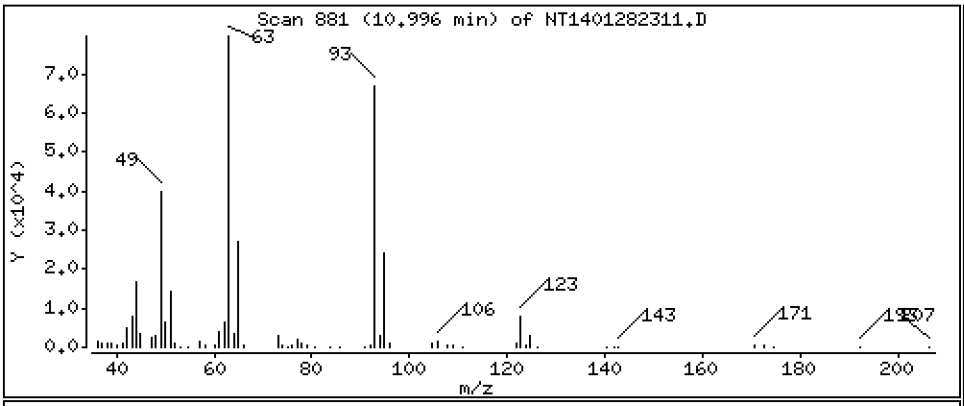
Operator: JGR

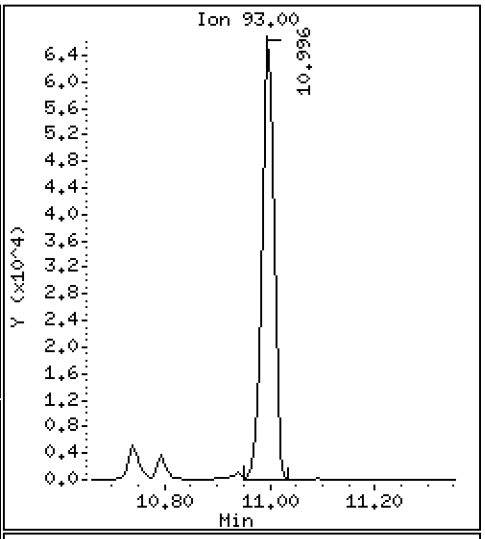
Column phase: ZB-5msi

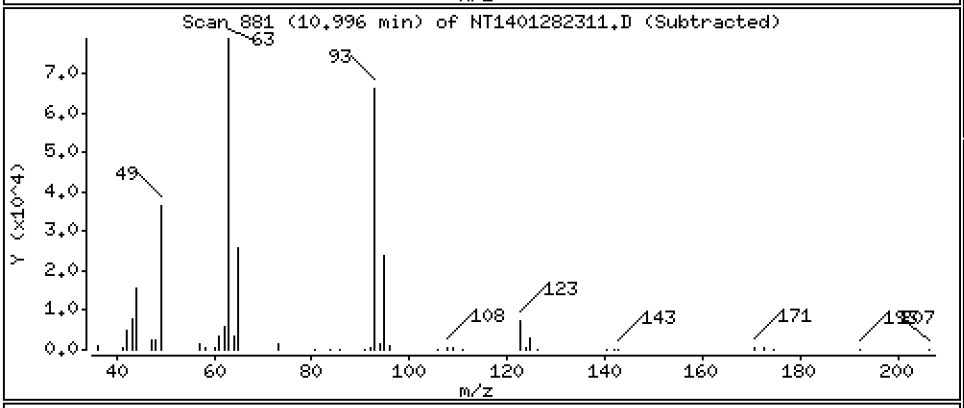
Column diameter: 0.25

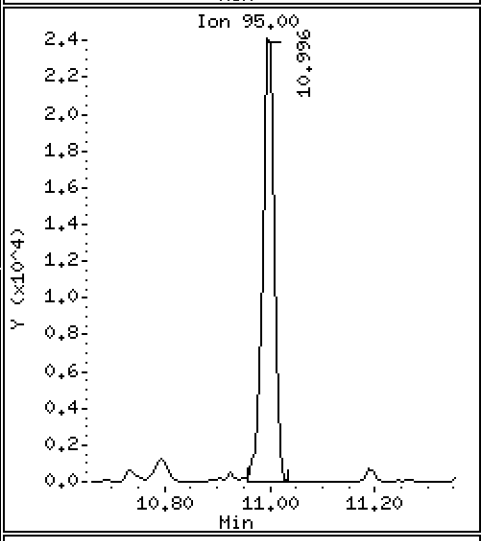
23 Bis(2-Chloroethoxy)methane

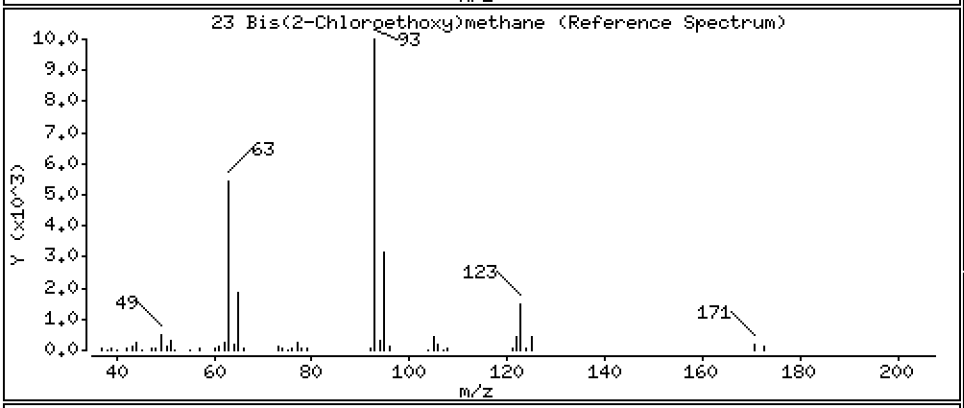
Concentration: 5.454 ug/mL

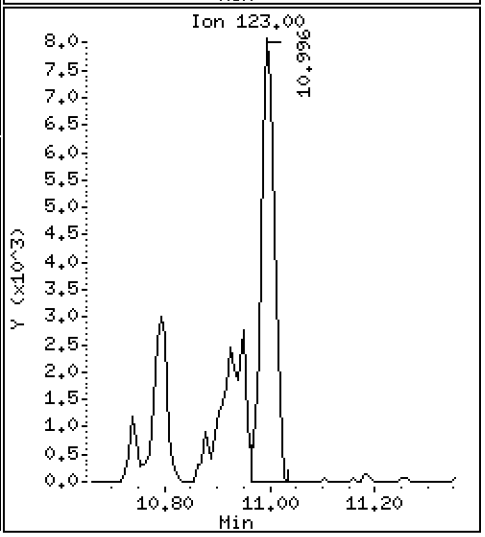


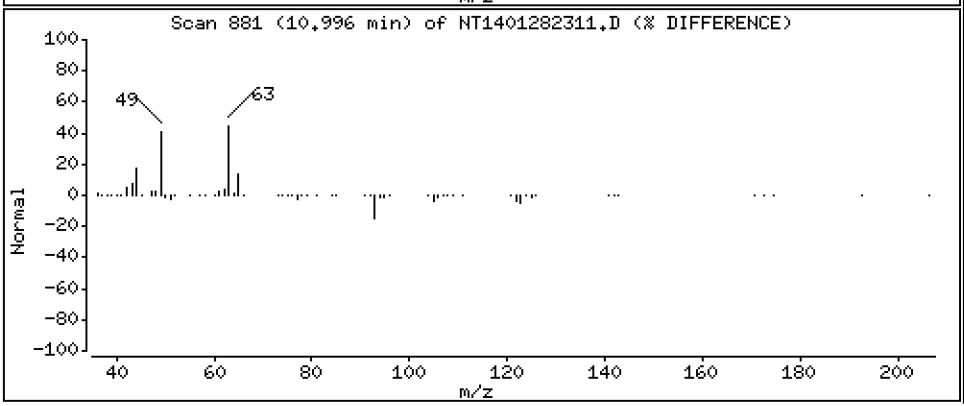












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

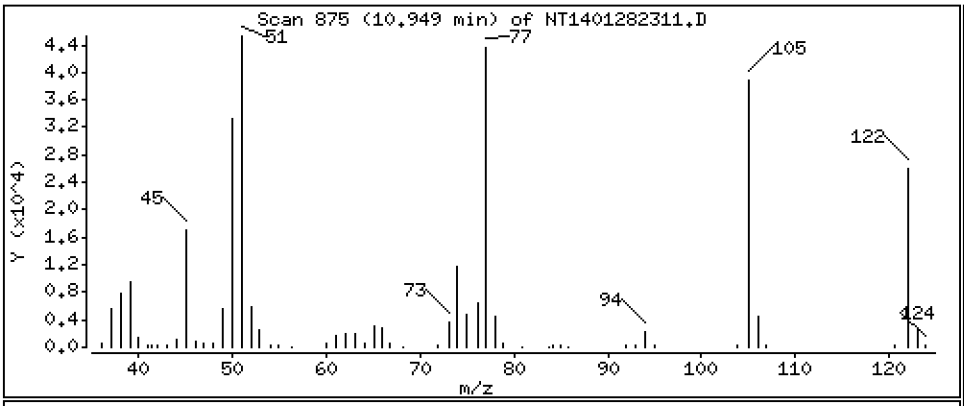
Operator: JGR

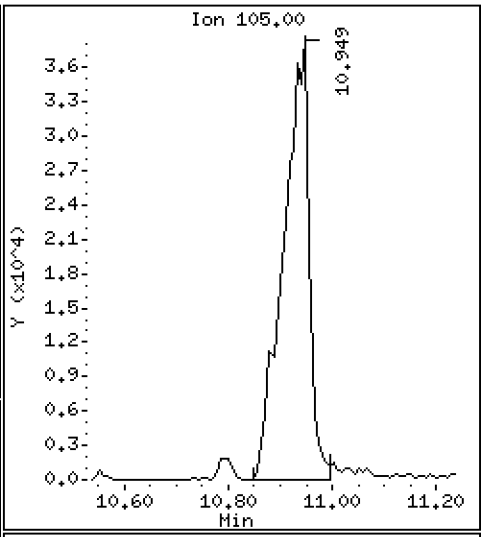
Column phase: ZB-5msi

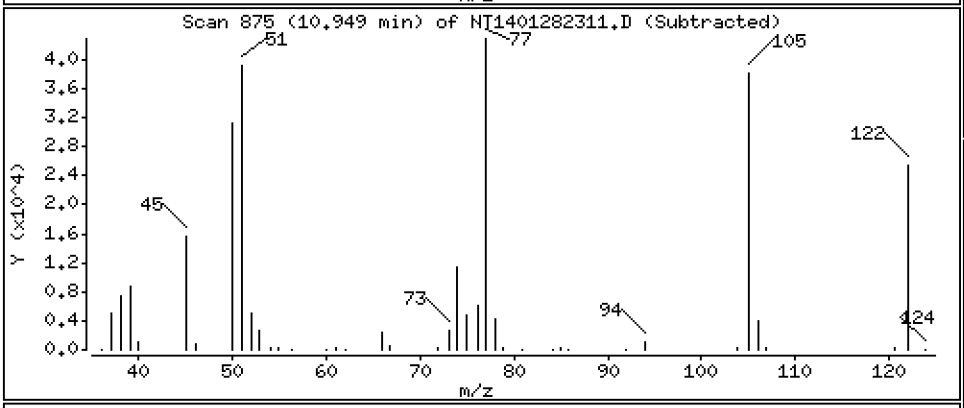
Column diameter: 0.25

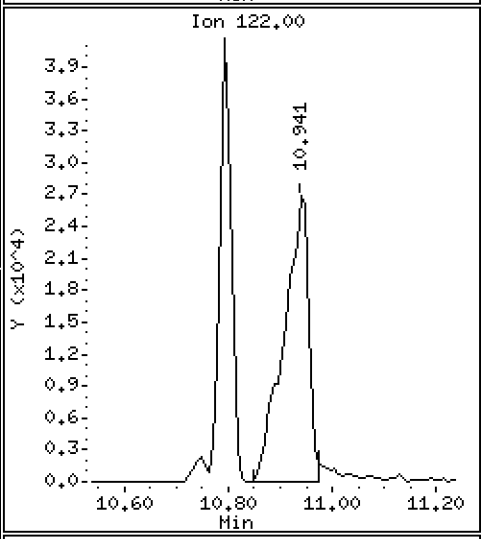
24 Benzoic acid

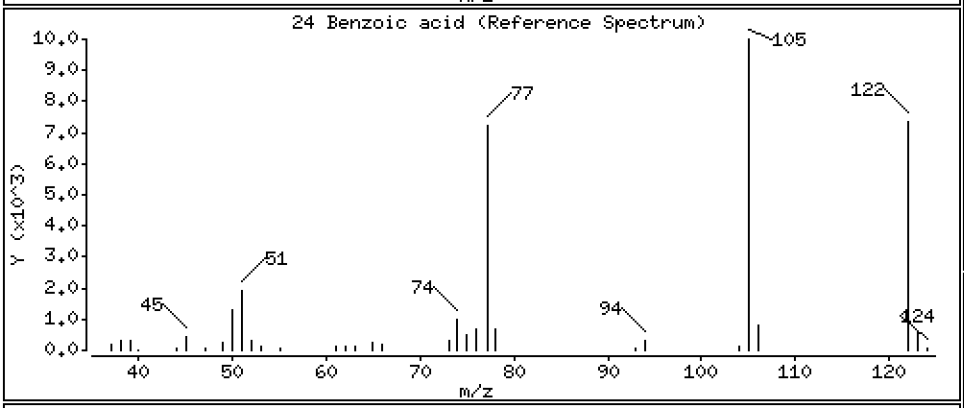
Concentration: 6.669 ug/mL

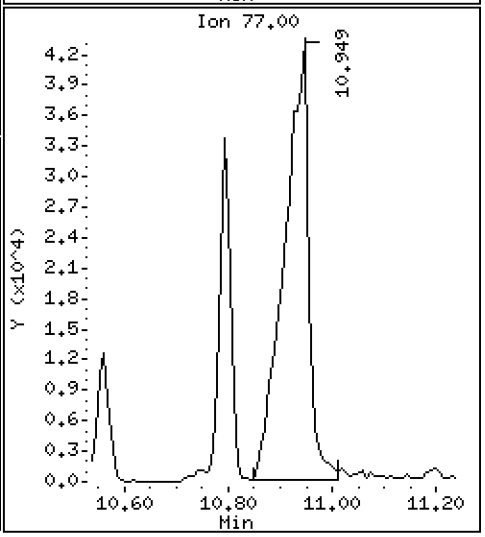


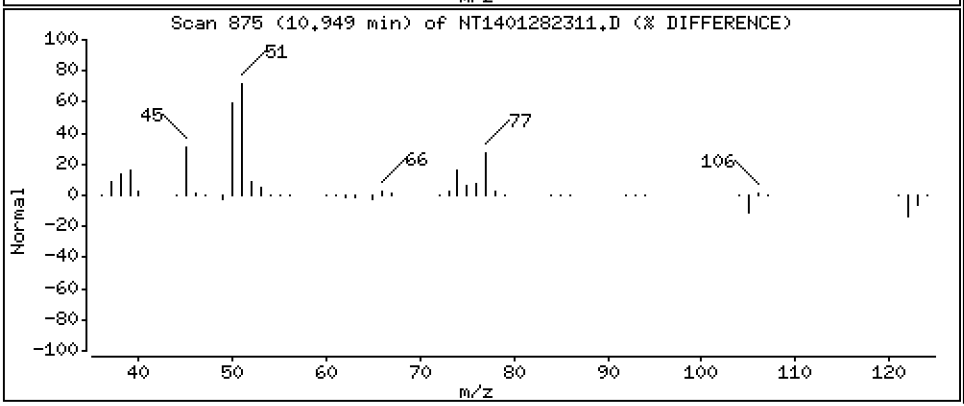












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

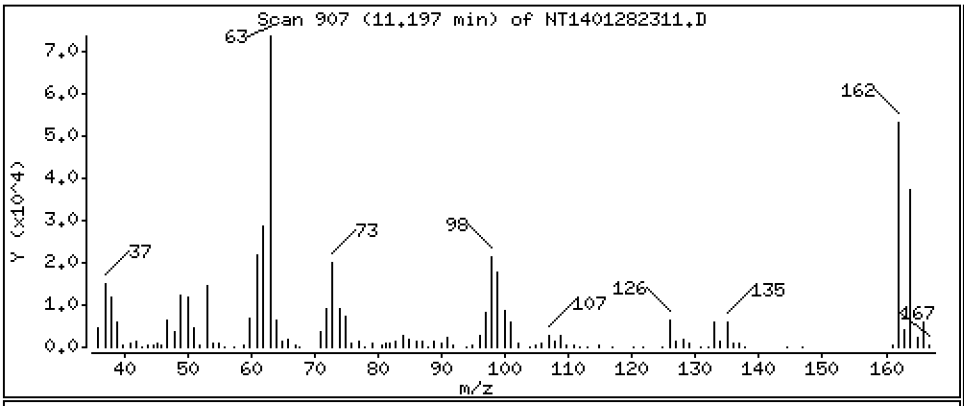
Operator: JGR

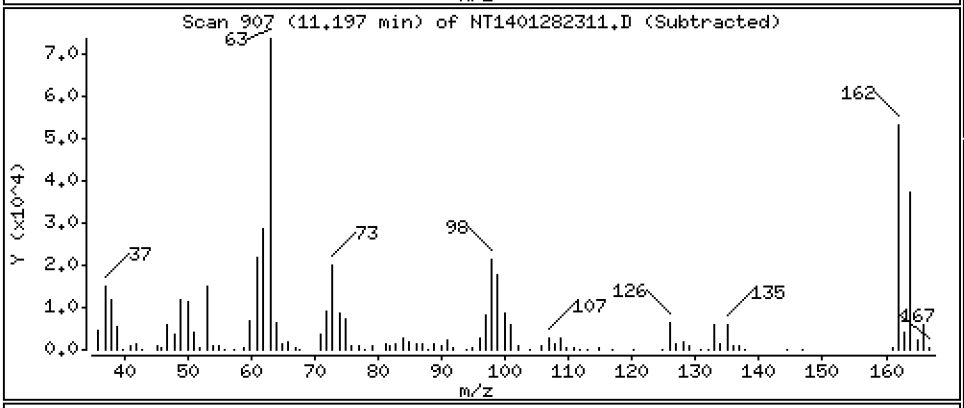
Column phase: ZB-5msi

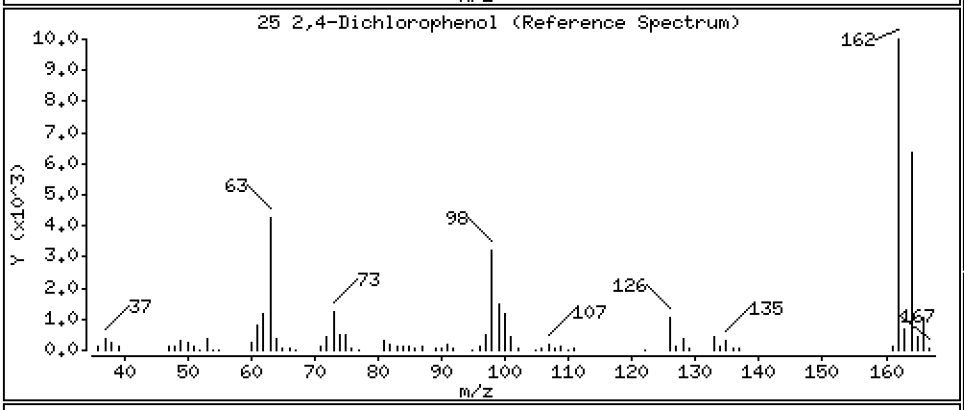
Column diameter: 0.25

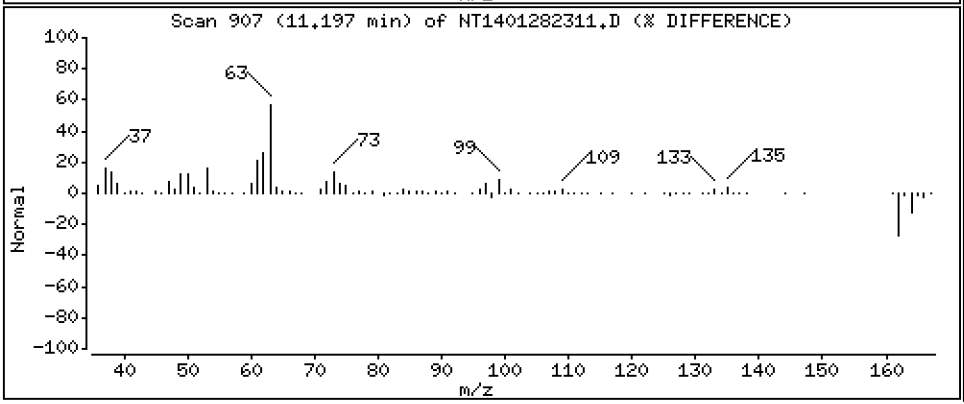
25 2,4-Dichlorophenol

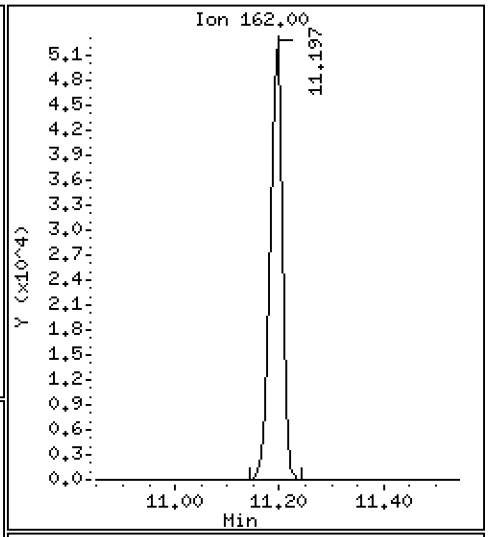
Concentration: 3.997 ug/mL

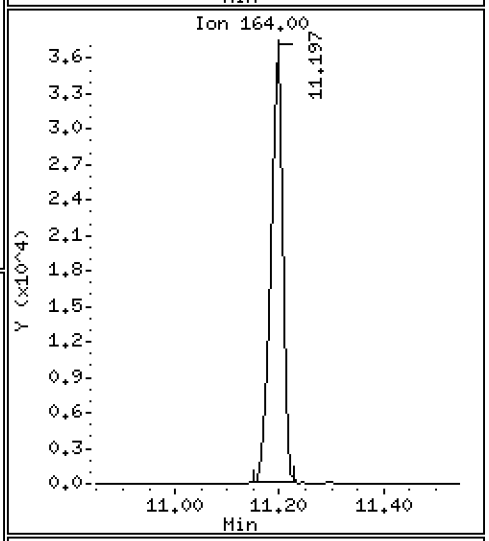


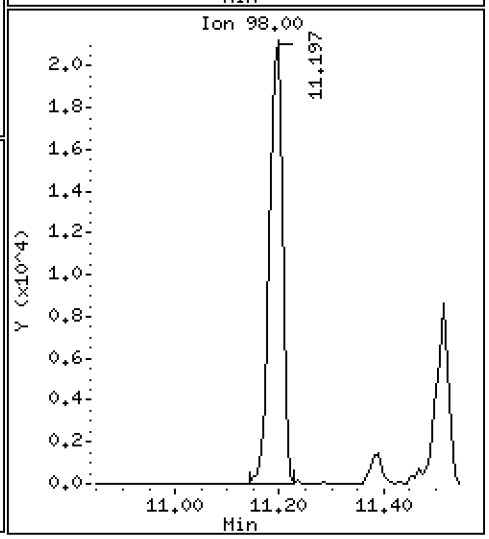












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

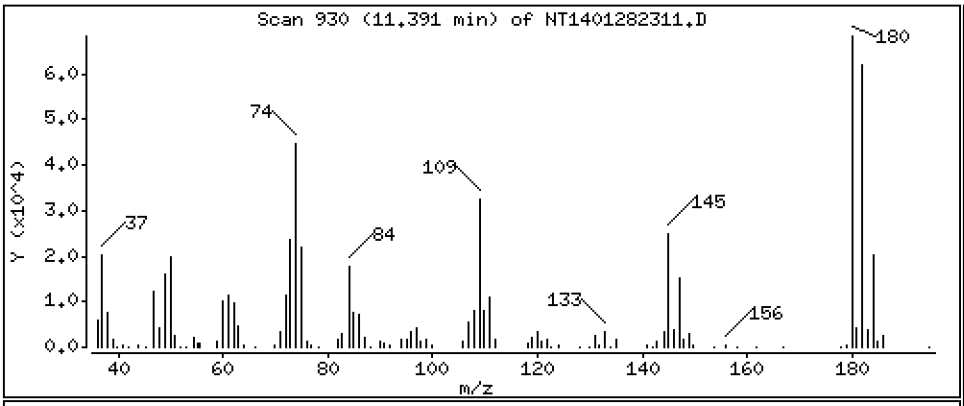
Operator: JGR

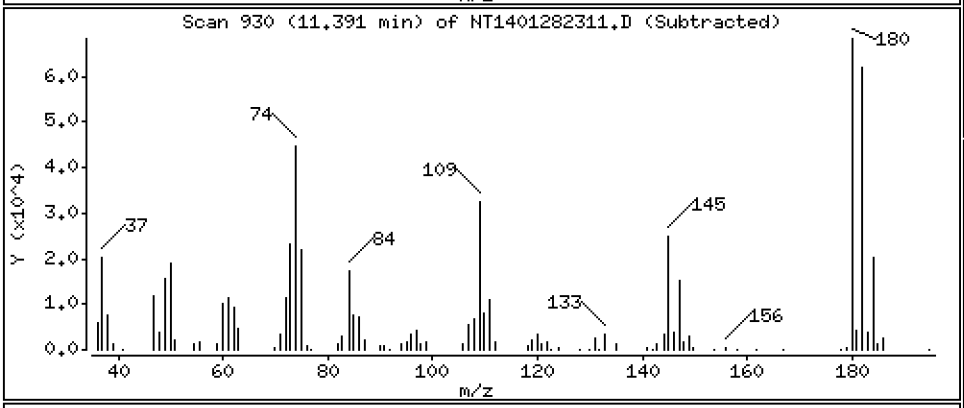
Column phase: ZB-5msi

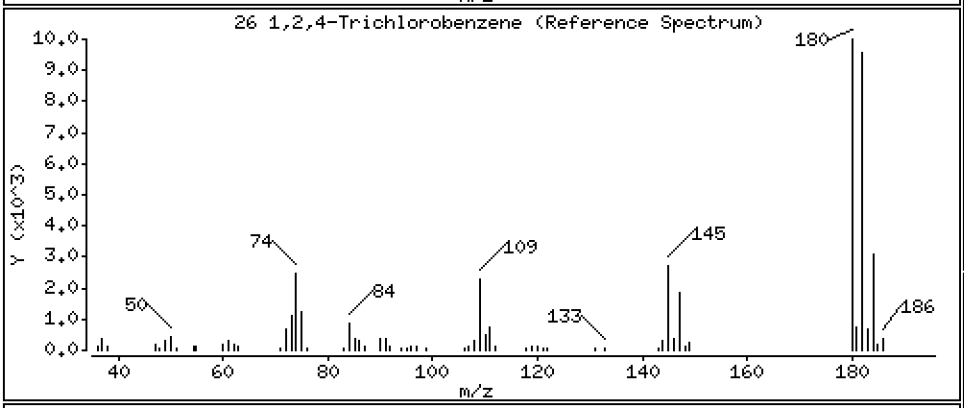
Column diameter: 0.25

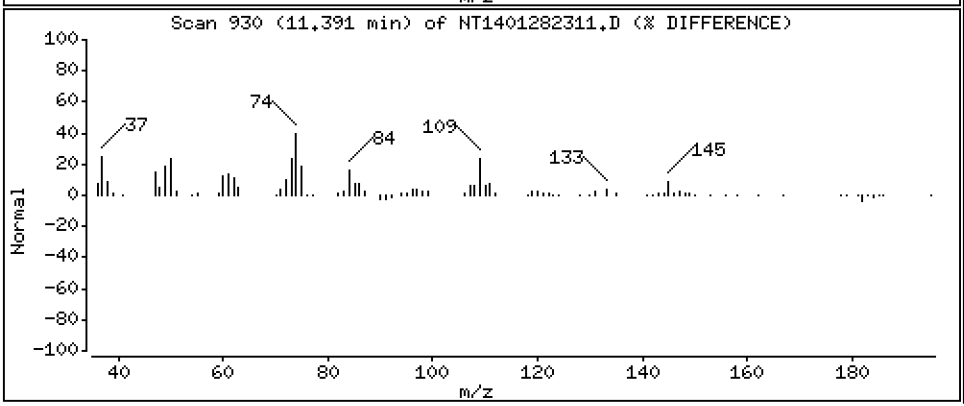
26 1,2,4-Trichlorobenzene

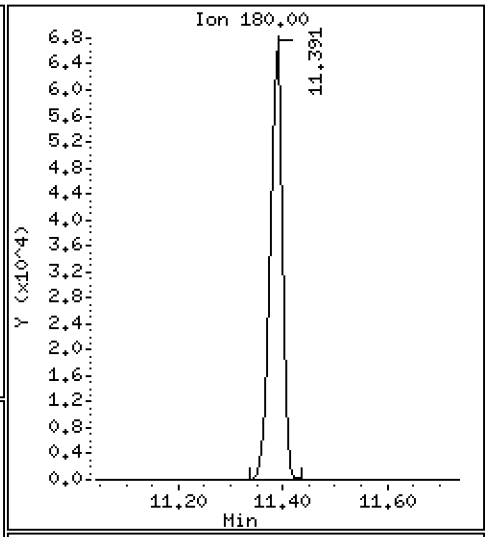
Concentration: 4.476 ug/mL

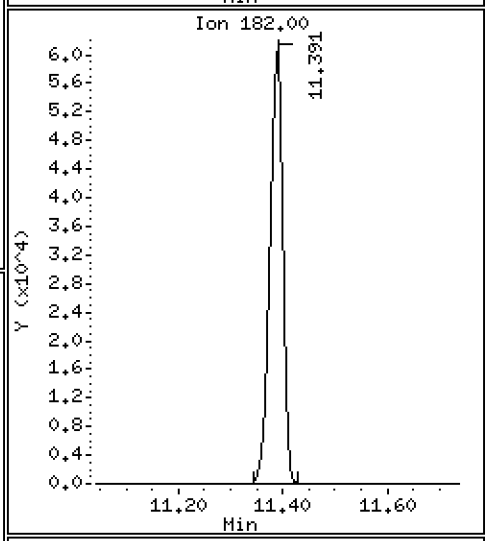


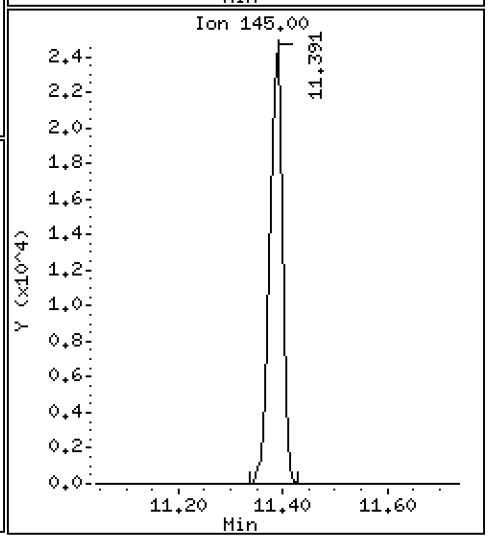












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

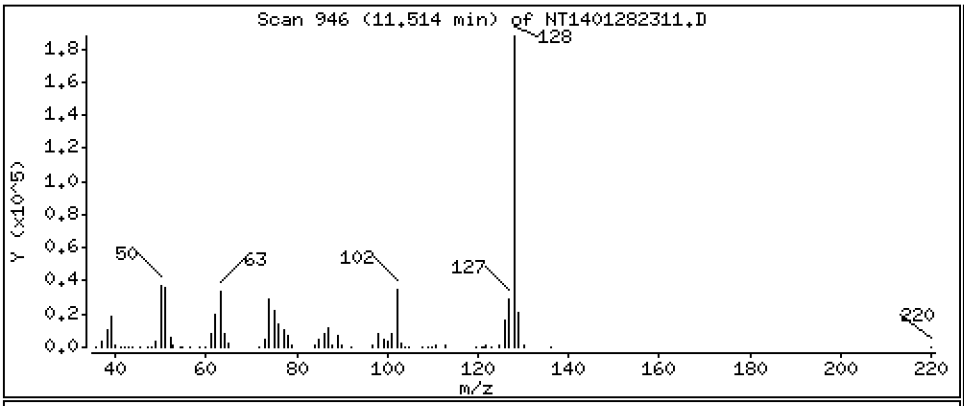
Operator: JGR

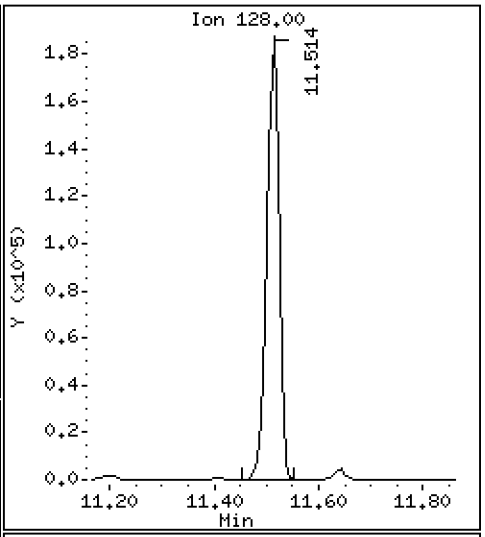
Column phase: ZB-5msi

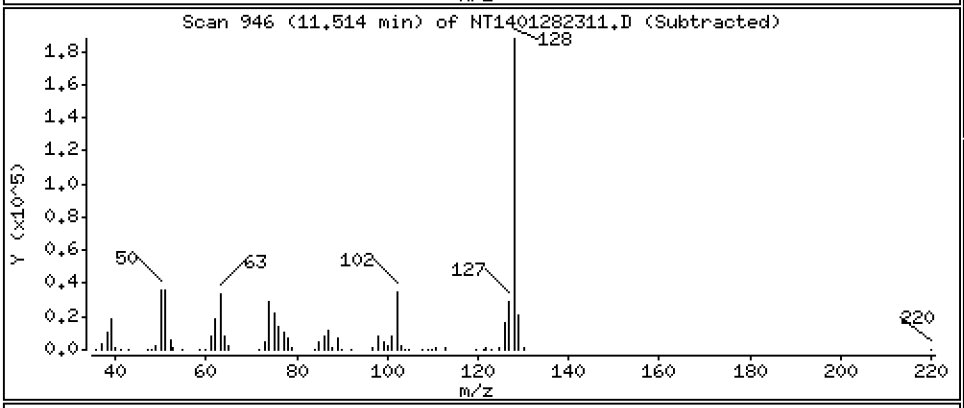
Column diameter: 0.25

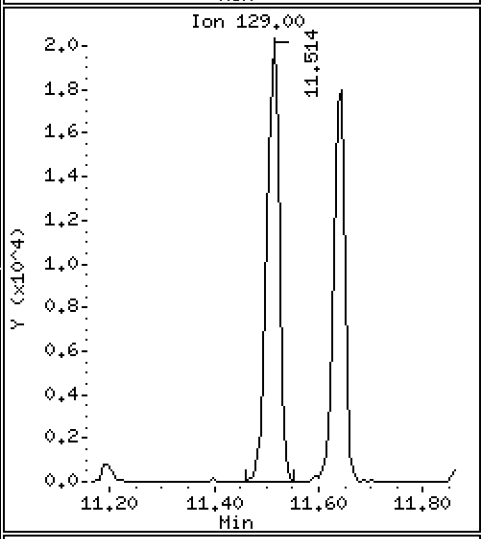
28 Naphthalene

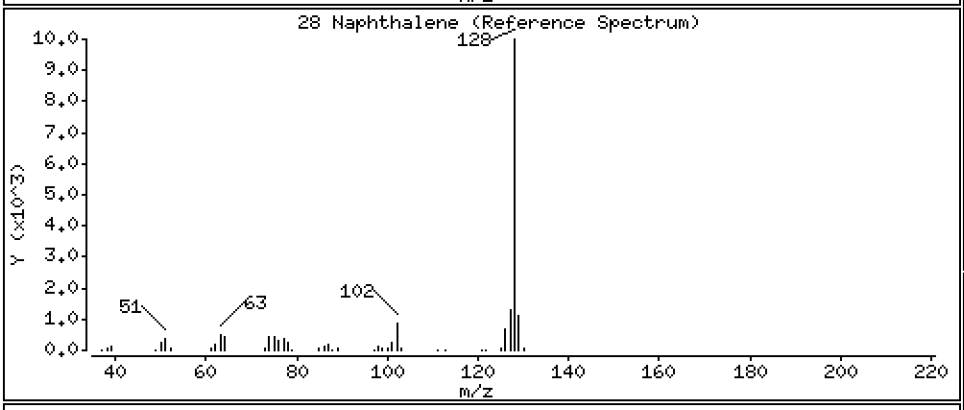
Concentration: 4.807 ug/mL

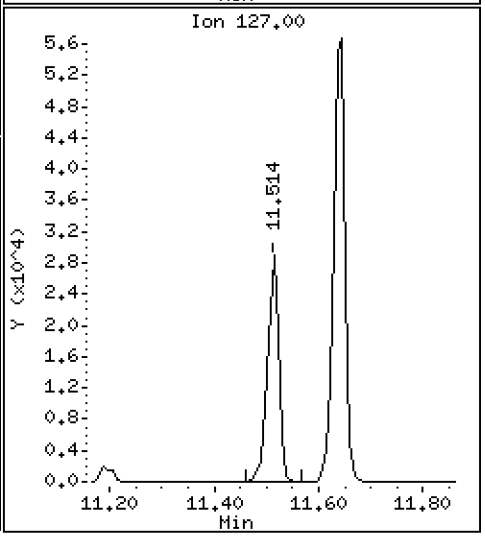


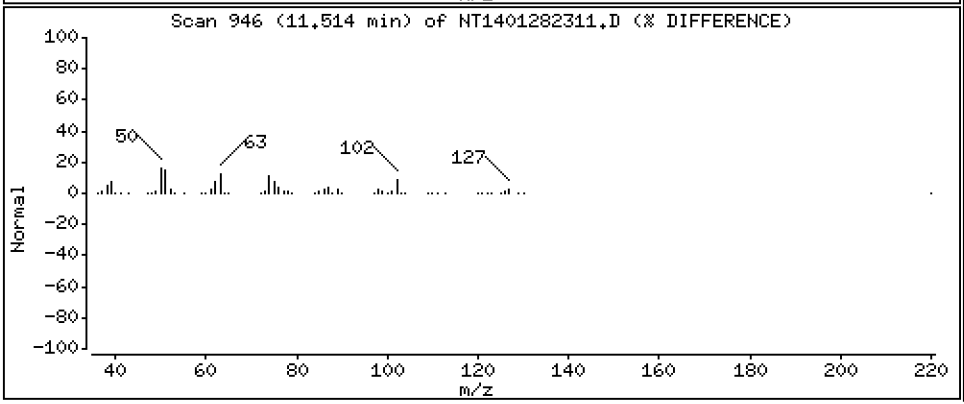












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

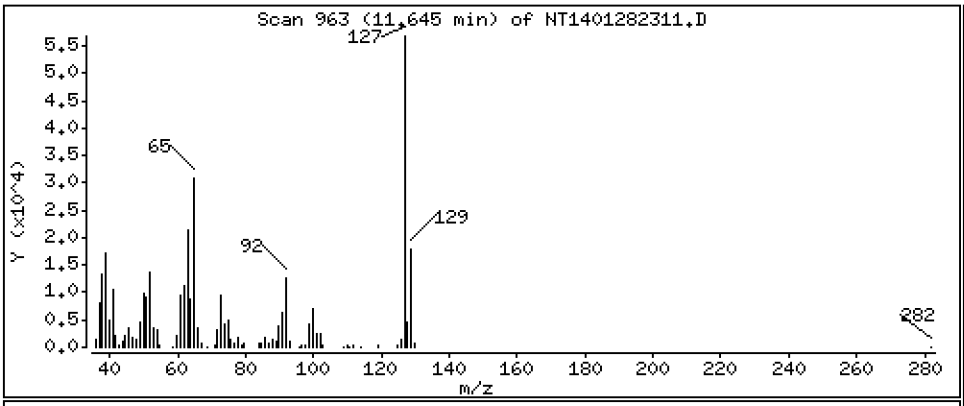
Operator: JGR

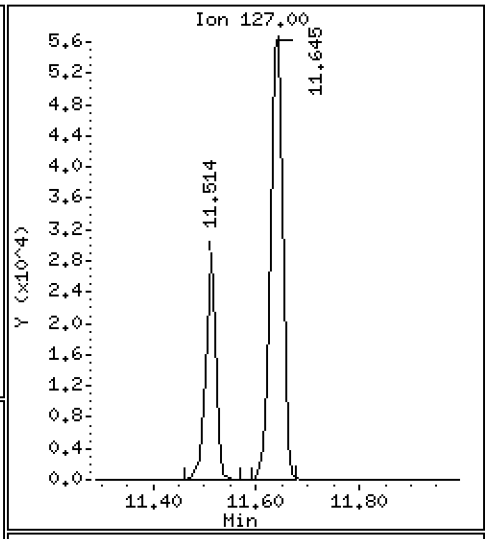
Column phase: ZB-5msi

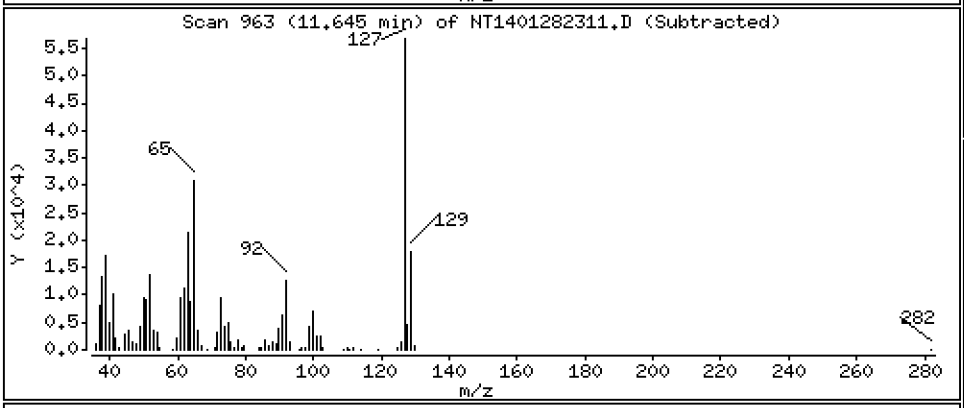
Column diameter: 0.25

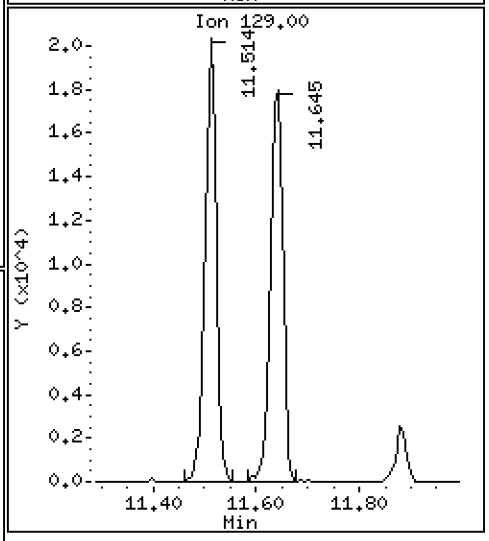
29 4-Chloroaniline

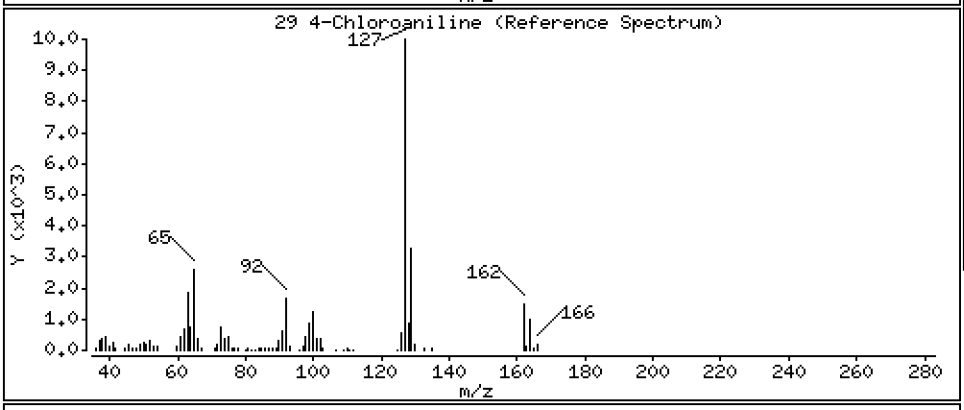
Concentration: 3.544 ug/mL

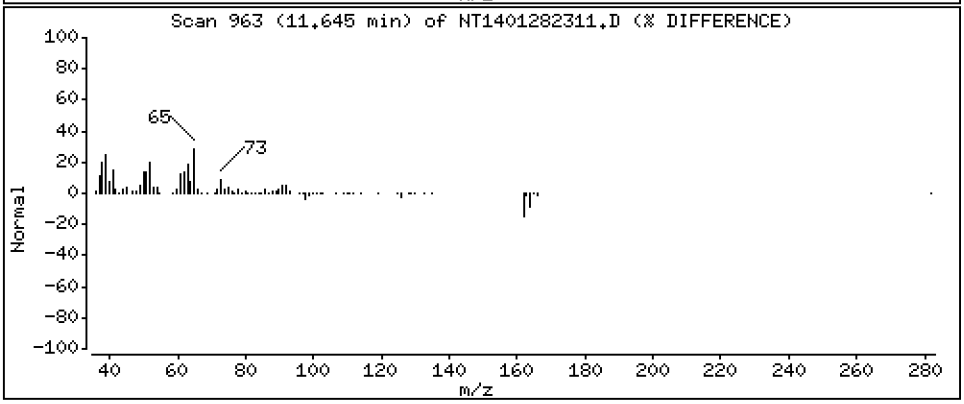












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

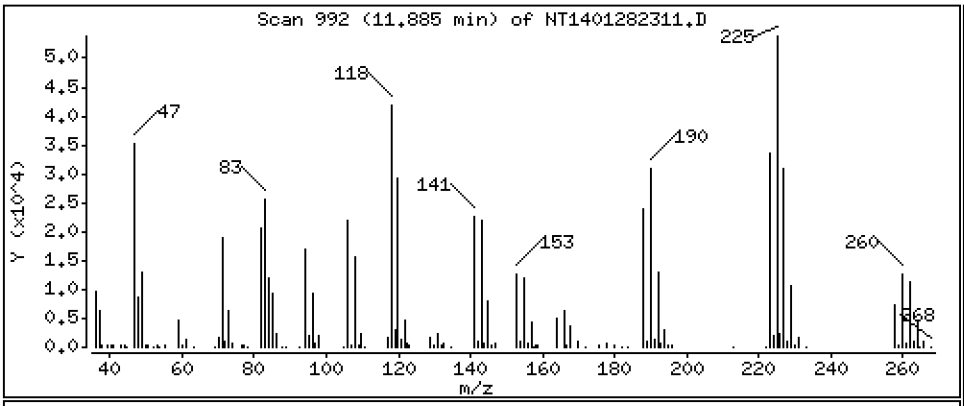
Operator: JGR

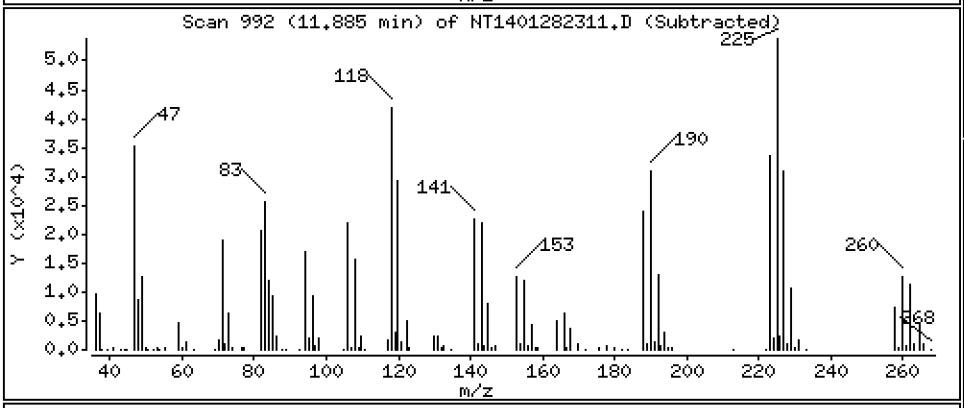
Column phase: ZB-5msi

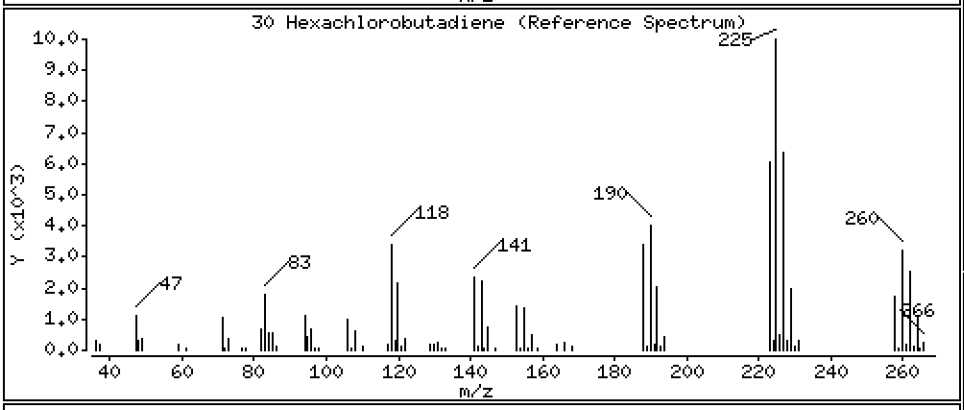
Column diameter: 0.25

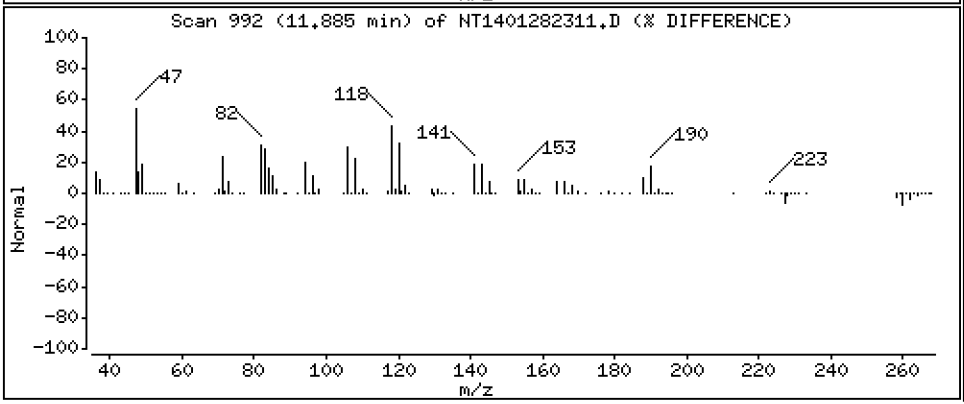
30 Hexachlorobutadiene

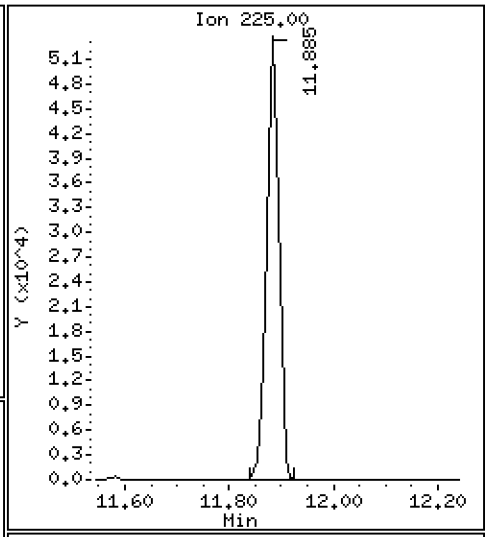
Concentration: 4.675 ug/mL

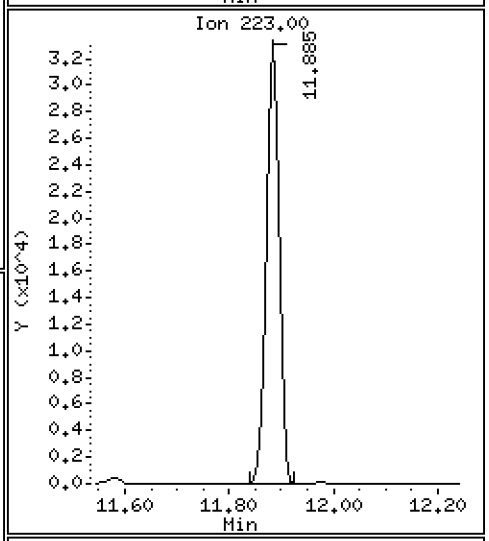


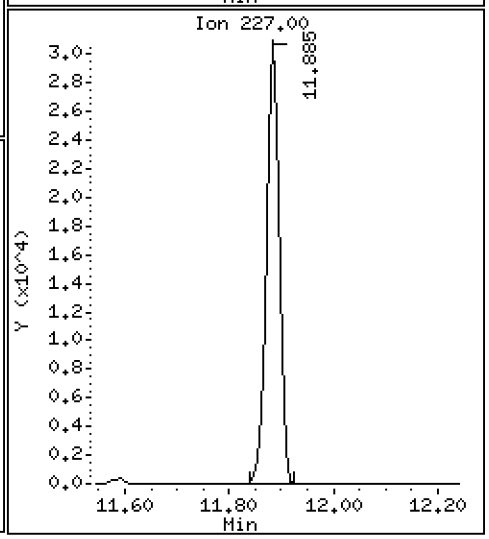












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

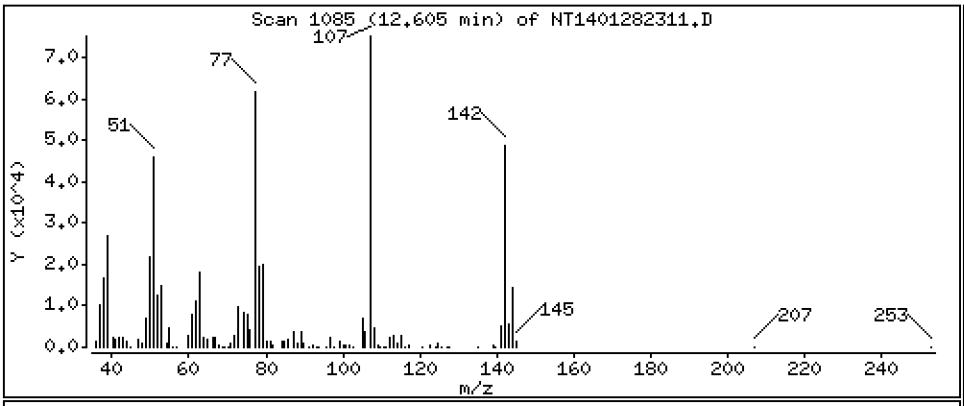
Operator: JGR

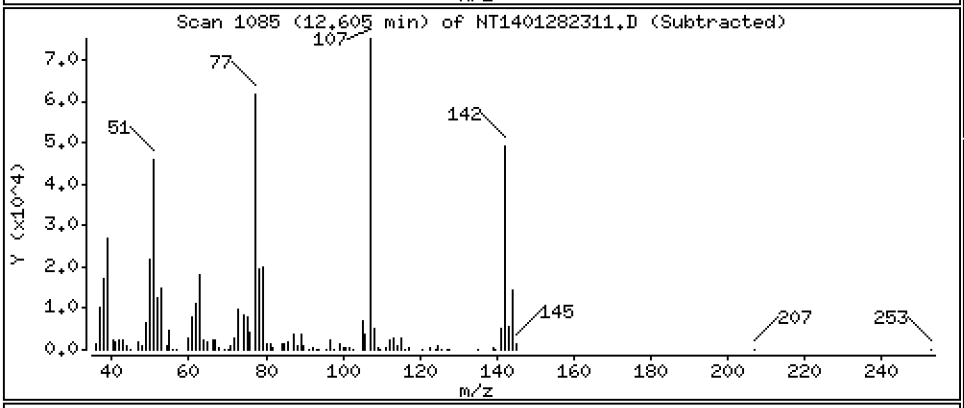
Column phase: ZB-5msi

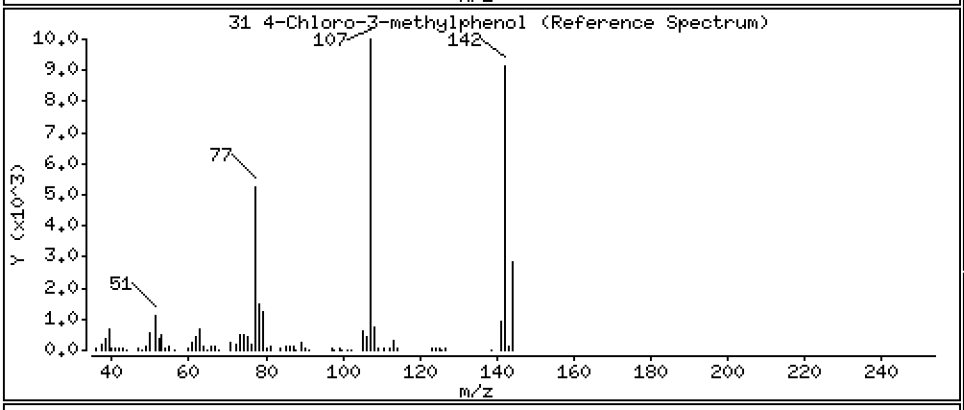
Column diameter: 0.25

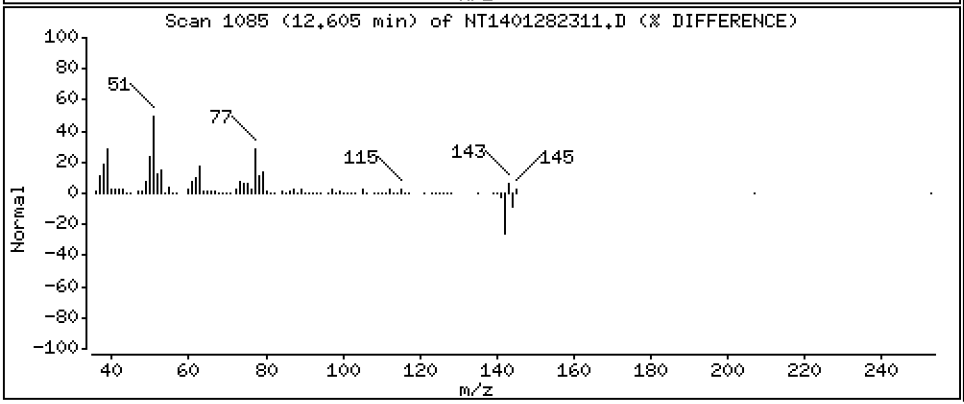
31 4-Chloro-3-methylphenol

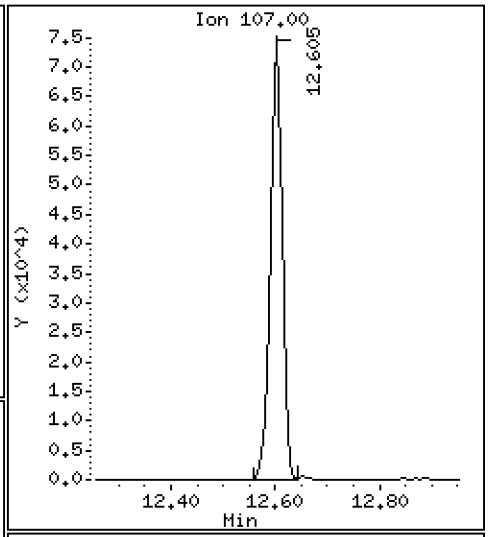
Concentration: 3.943 ug/mL

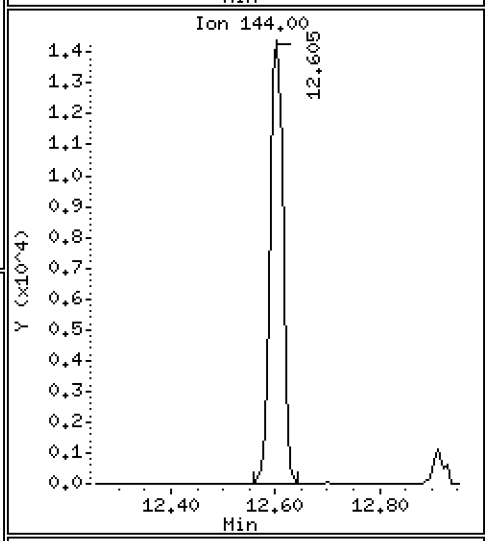


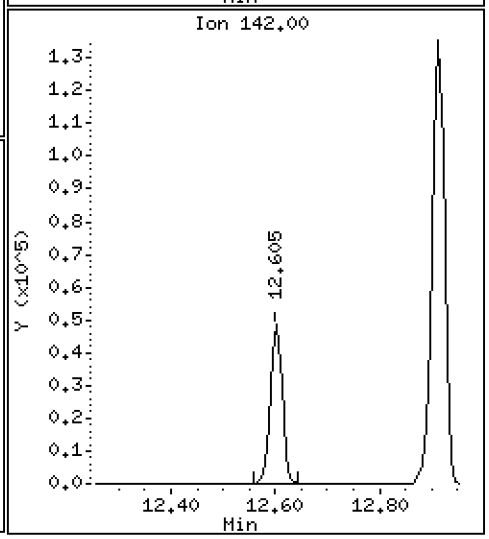












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

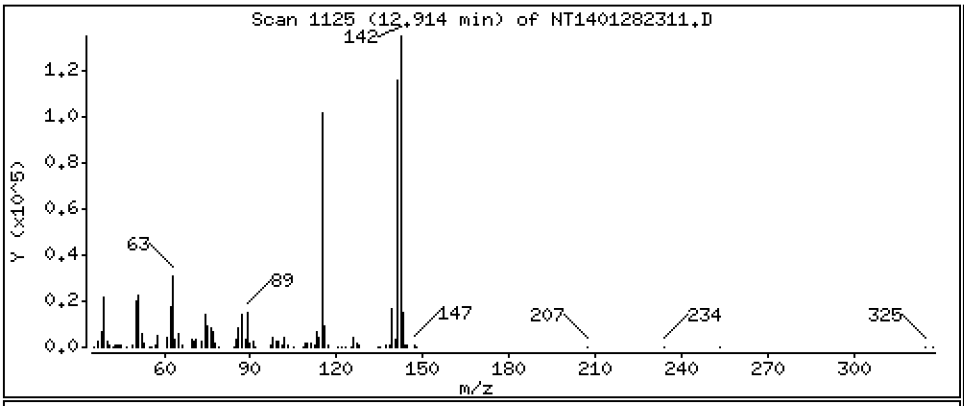
Operator: JGR

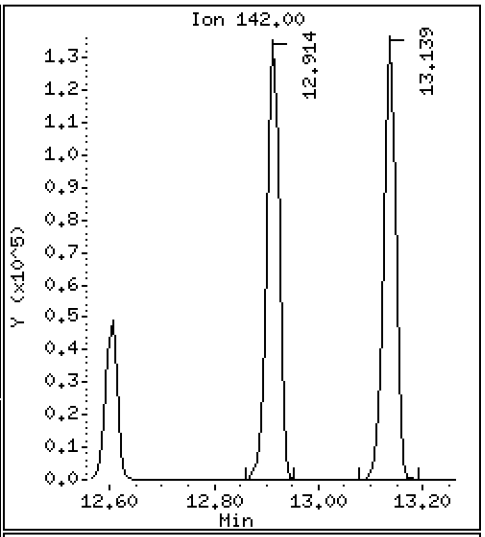
Column phase: ZB-5msi

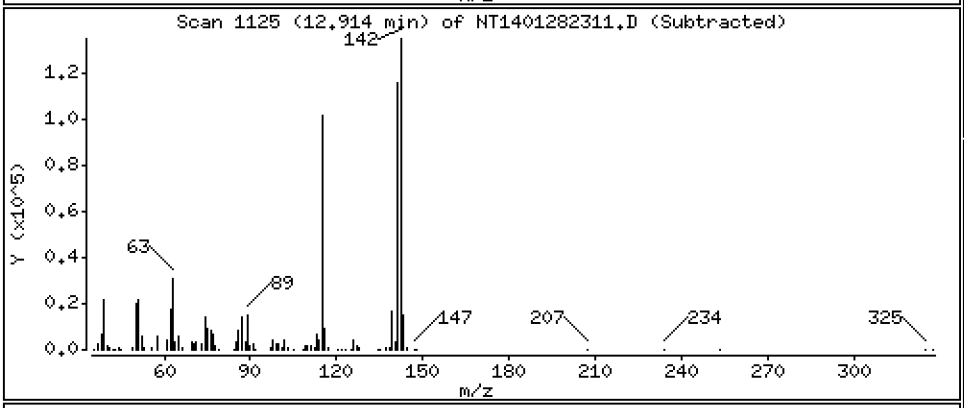
Column diameter: 0.25

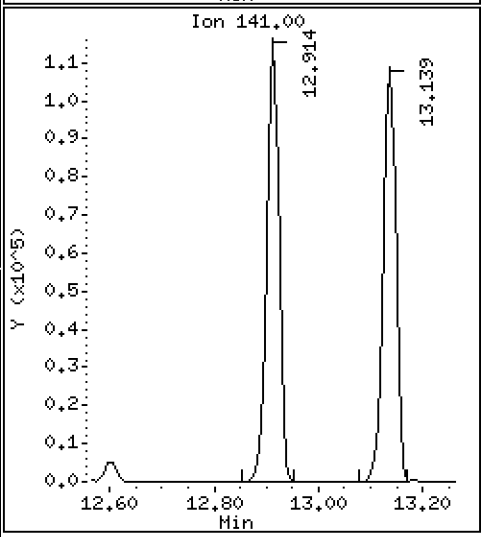
32 2-Methylnaphthalene

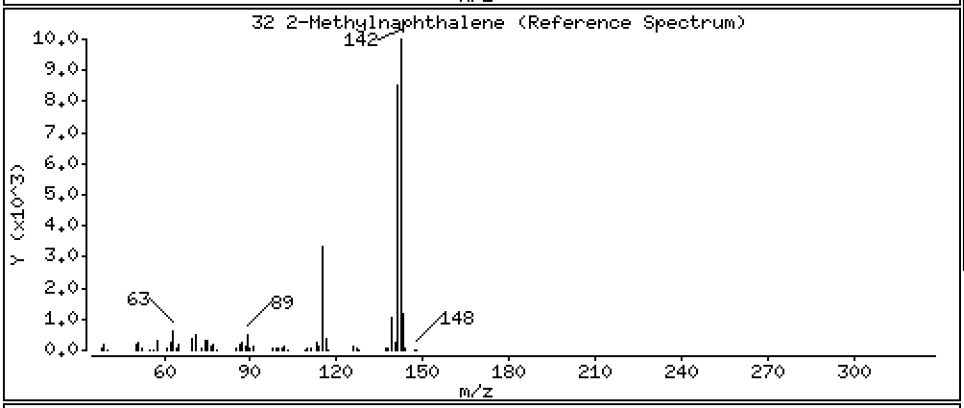
Concentration: 4.357 ug/mL

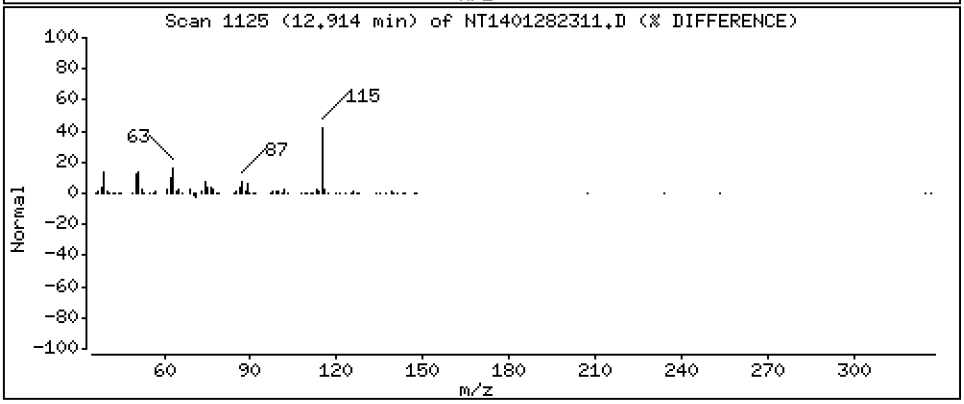












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

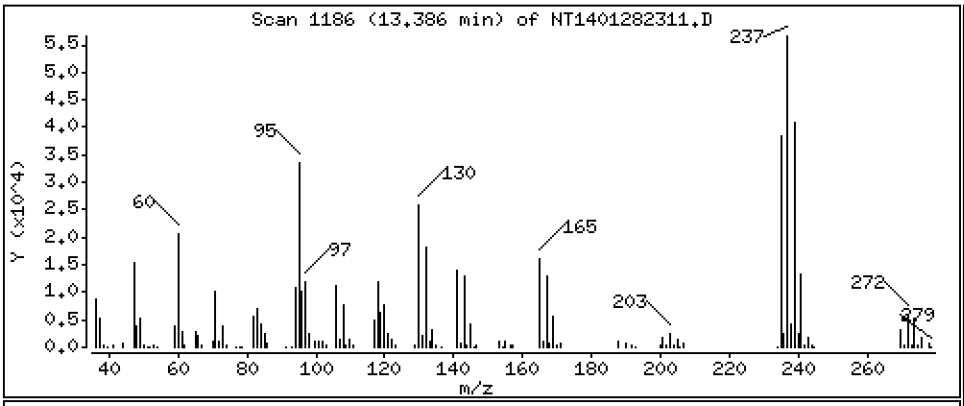
Operator: JGR

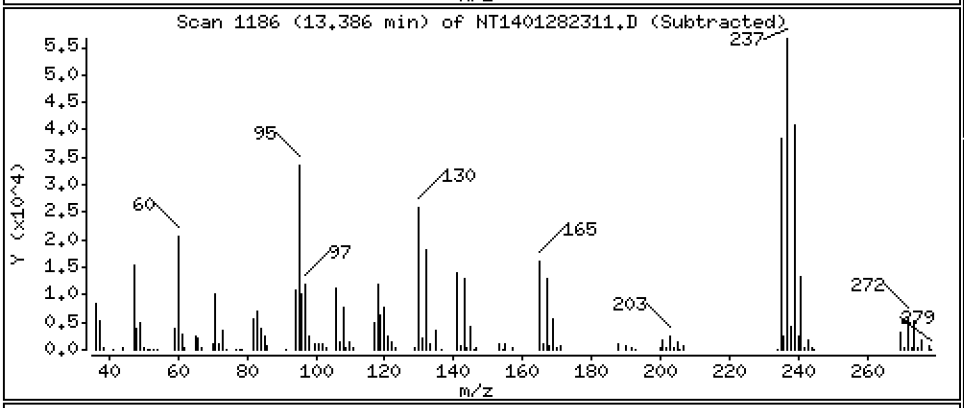
Column phase: ZB-5msi

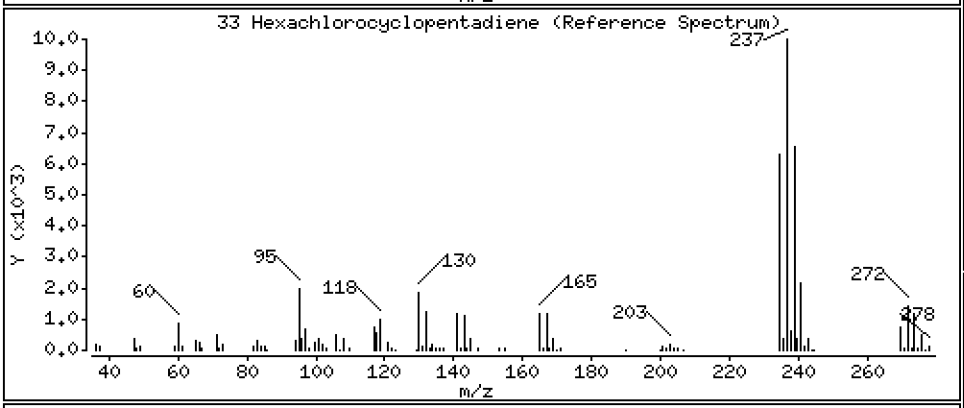
Column diameter: 0.25

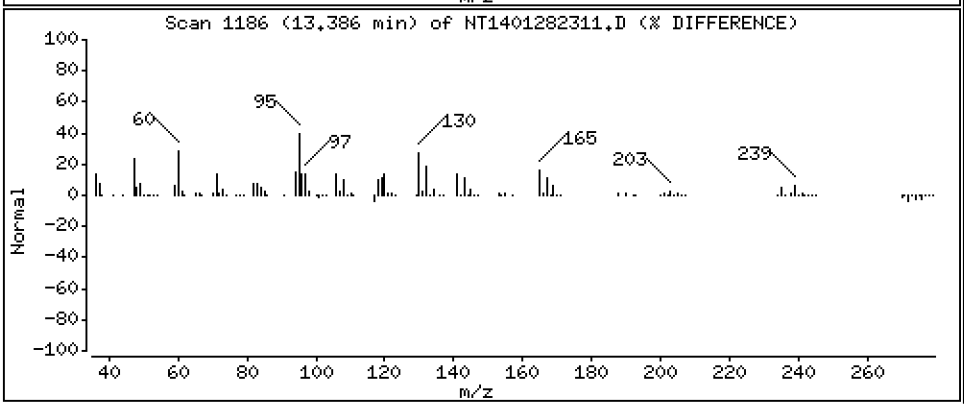
33 Hexachlorocyclopentadiene

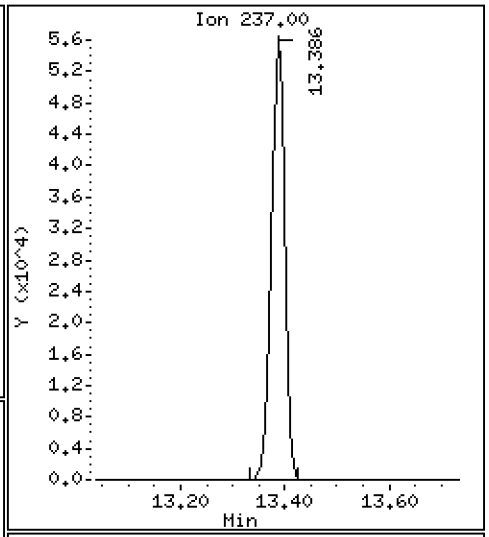
Concentration: 4.637 ug/mL

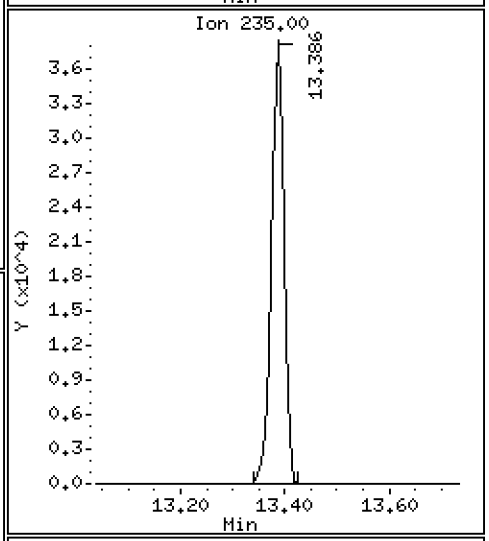


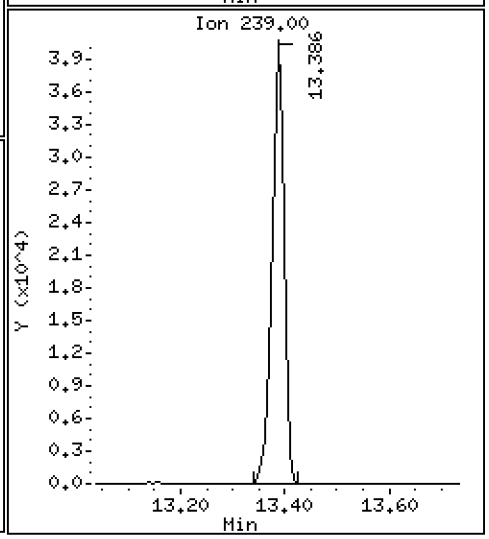












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

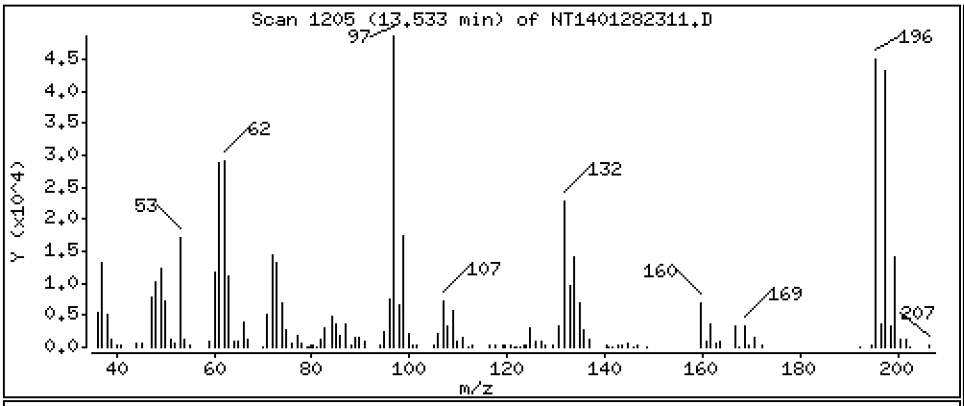
Operator: JGR

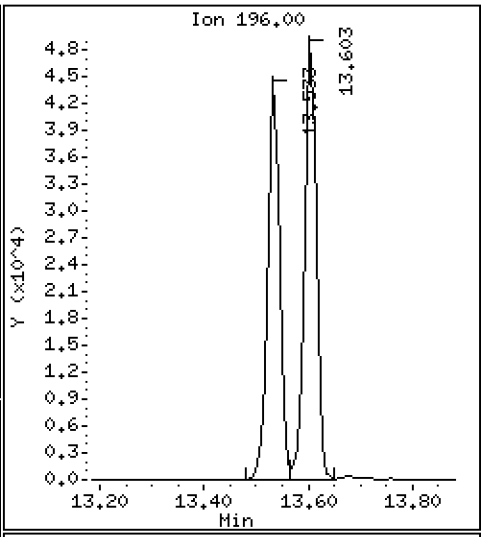
Column phase: ZB-5msi

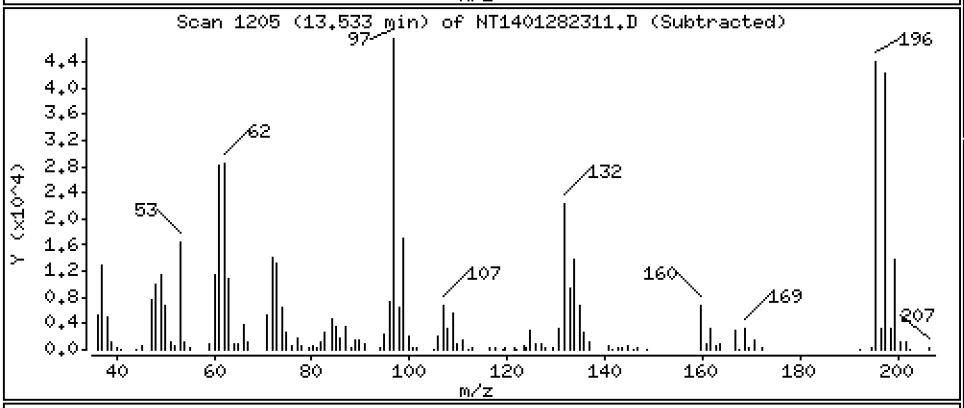
Column diameter: 0.25

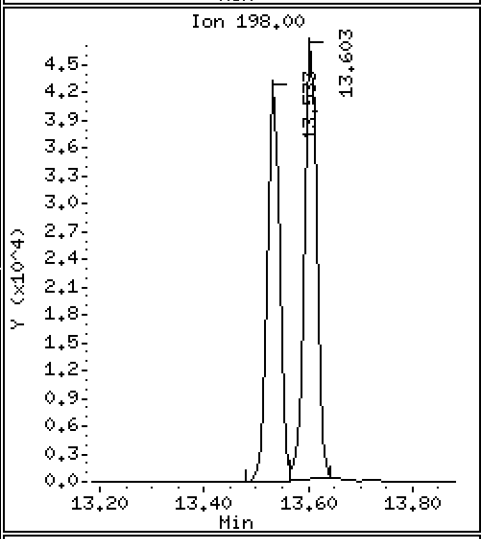
34 2,4,6-Trichlorophenol

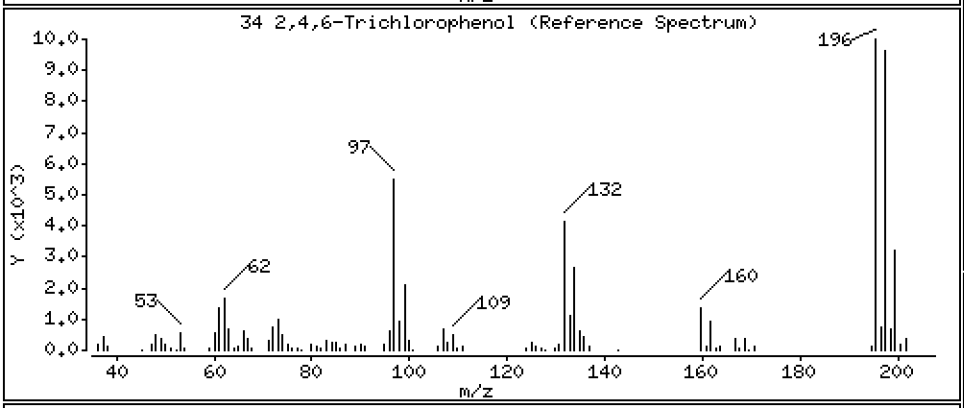
Concentration: 3.710 ug/mL

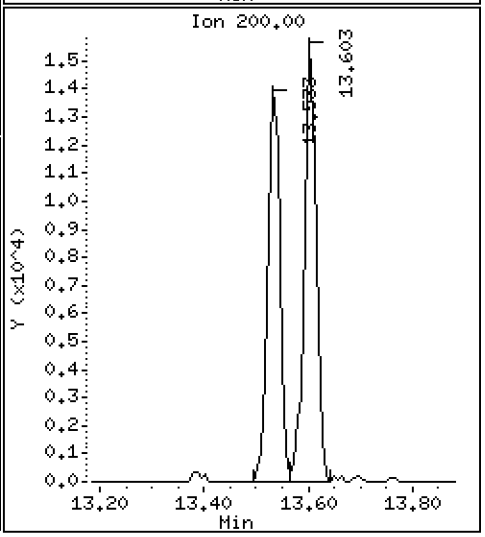


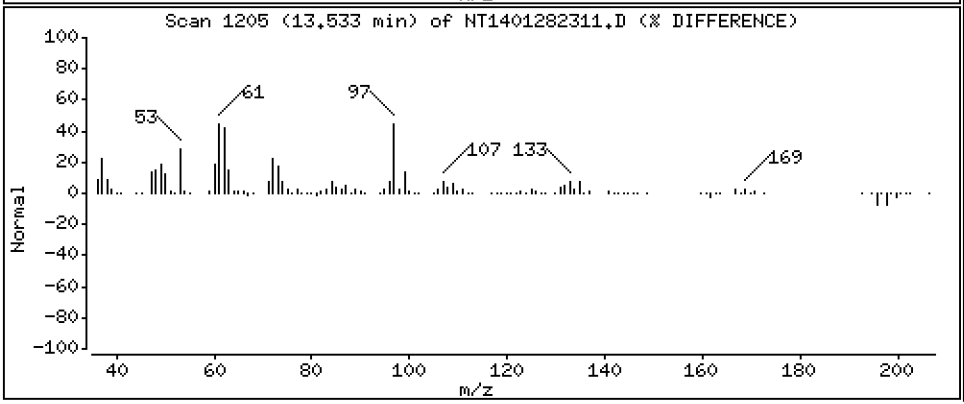












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

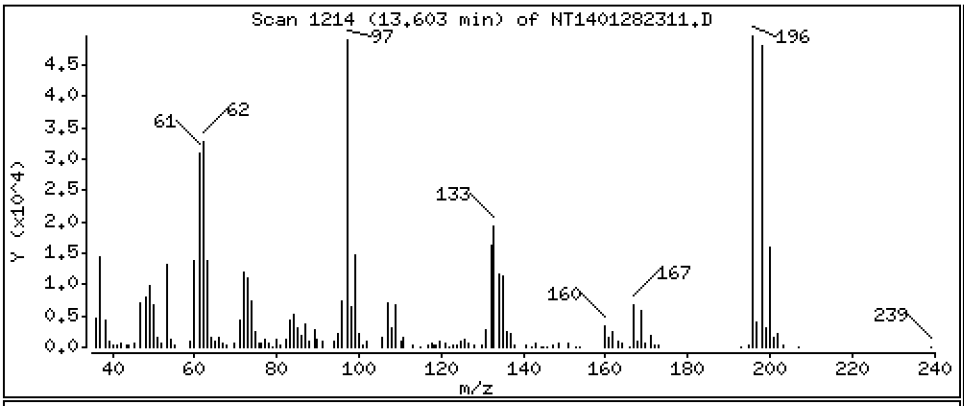
Operator: JGR

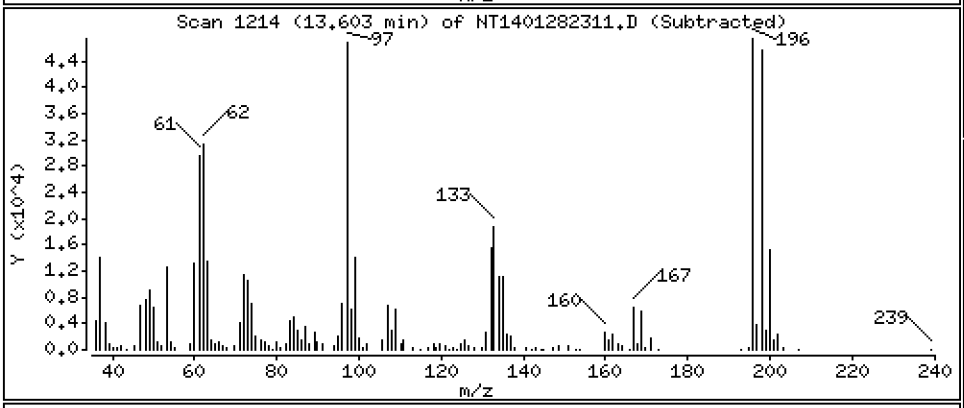
Column phase: ZB-5msi

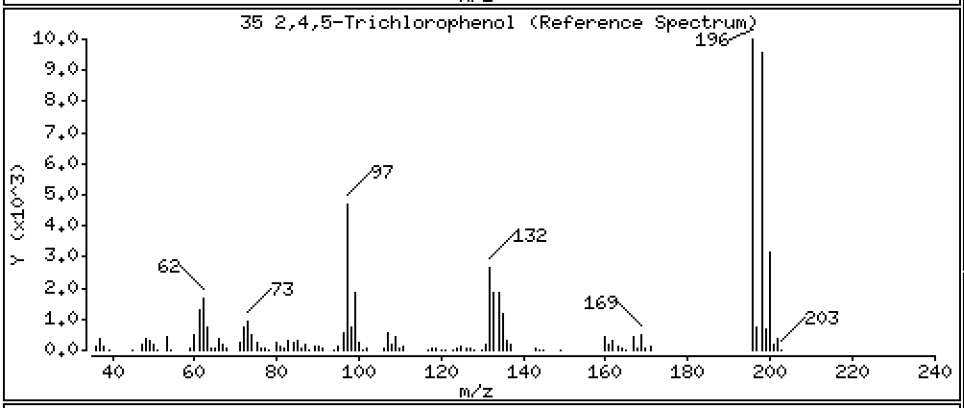
Column diameter: 0.25

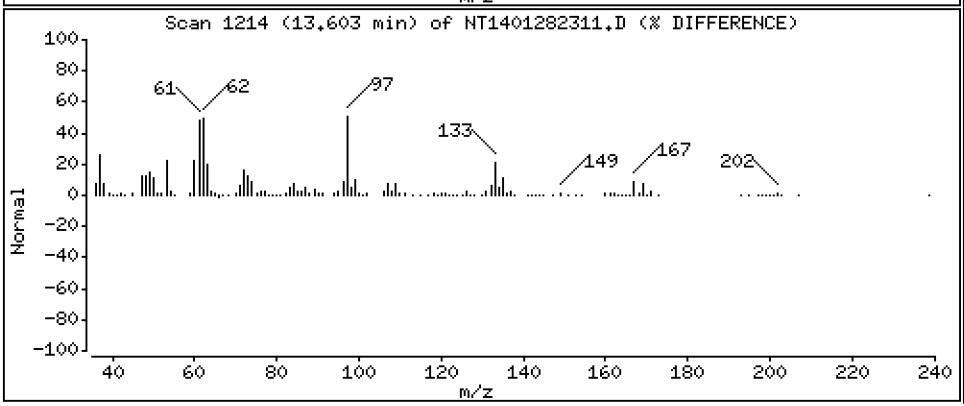
35 2,4,5-Trichlorophenol

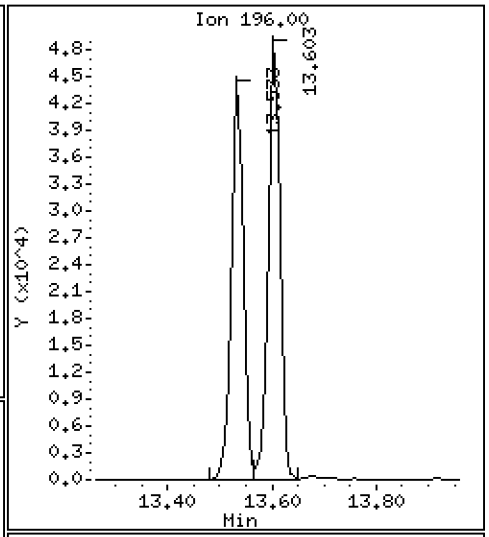
Concentration: 3.616 ug/mL

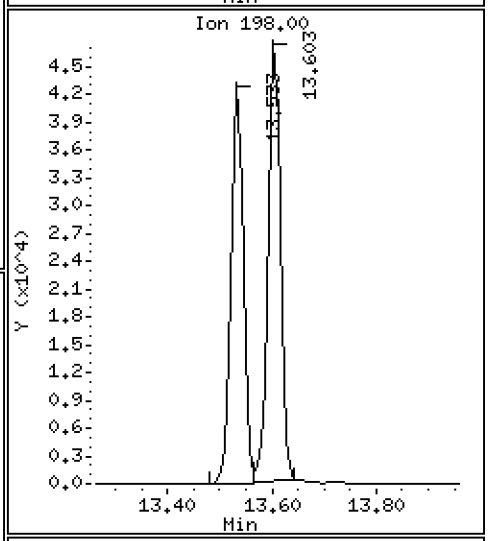


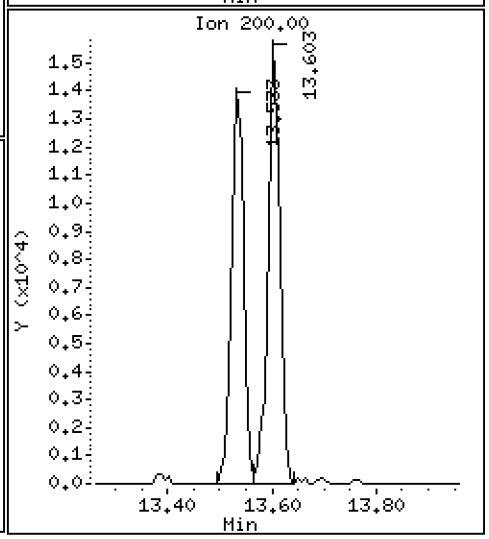












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

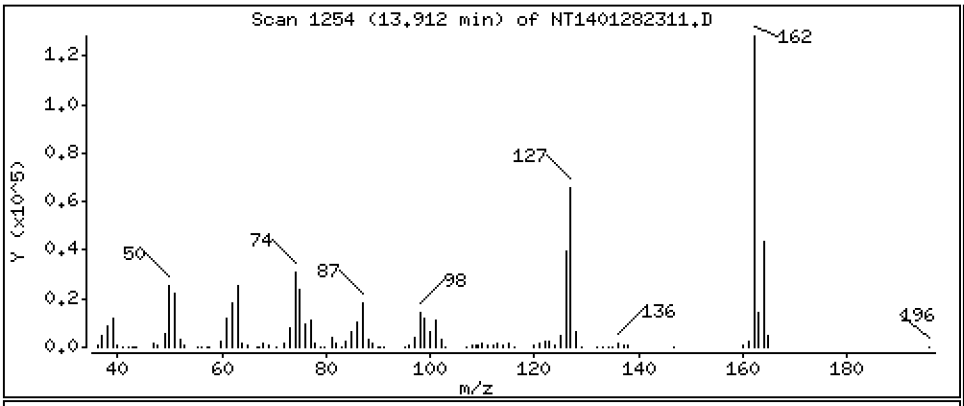
Operator: JGR

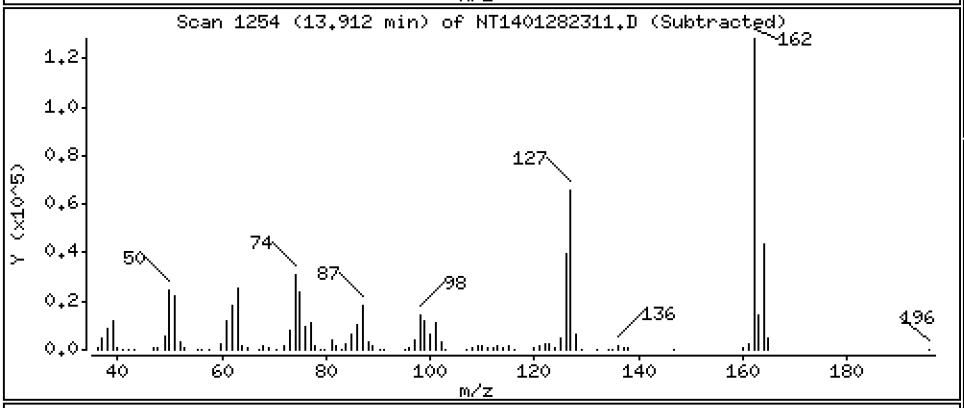
Column phase: ZB-5msi

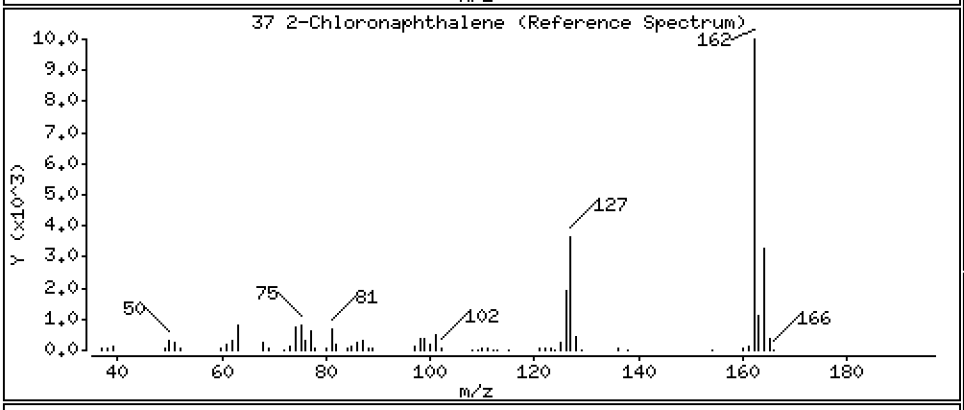
Column diameter: 0.25

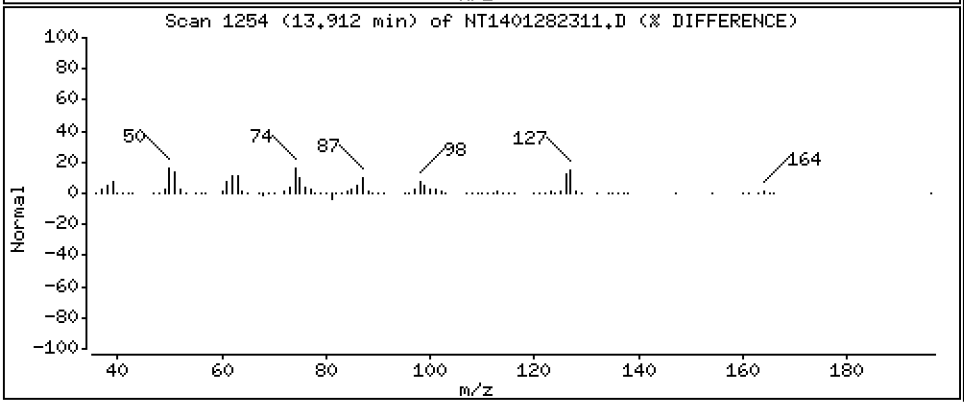
37 2-Chloronaphthalene

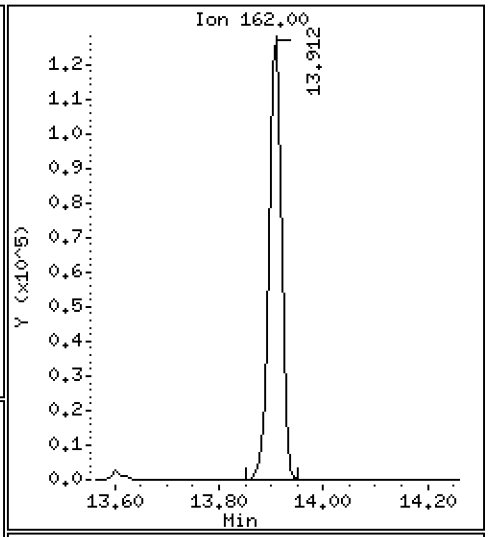
Concentration: 4.704 ug/mL

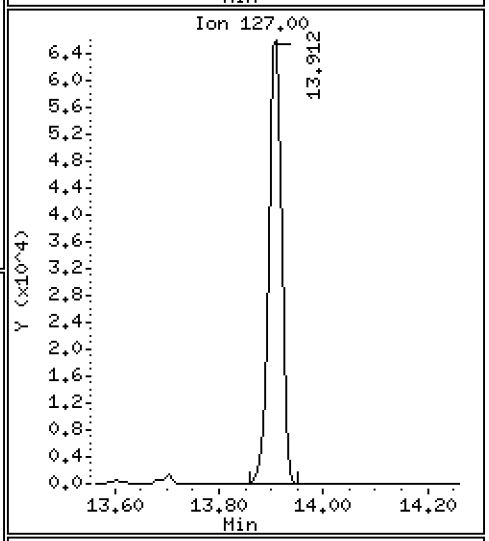


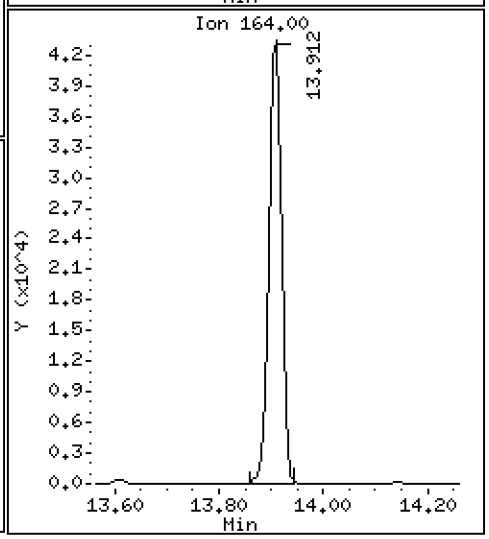












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

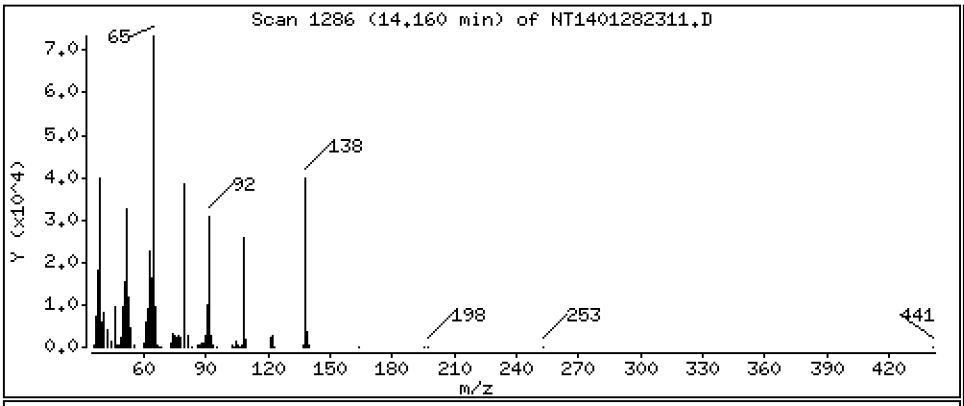
Operator: JGR

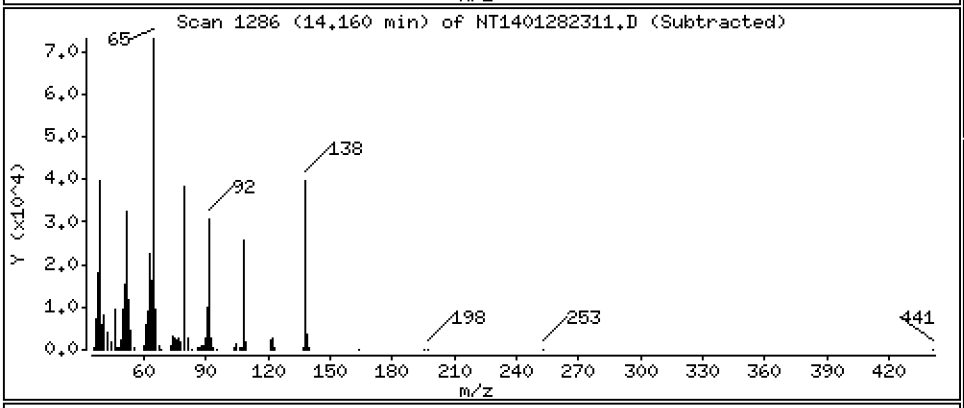
Column phase: ZB-5msi

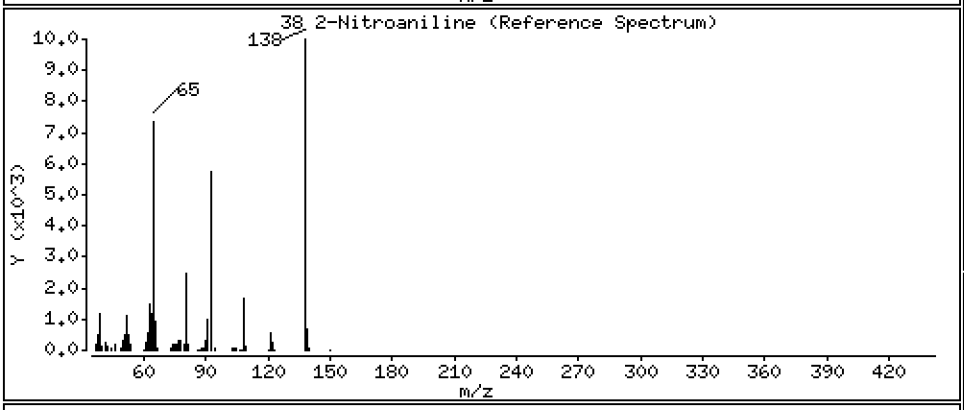
Column diameter: 0.25

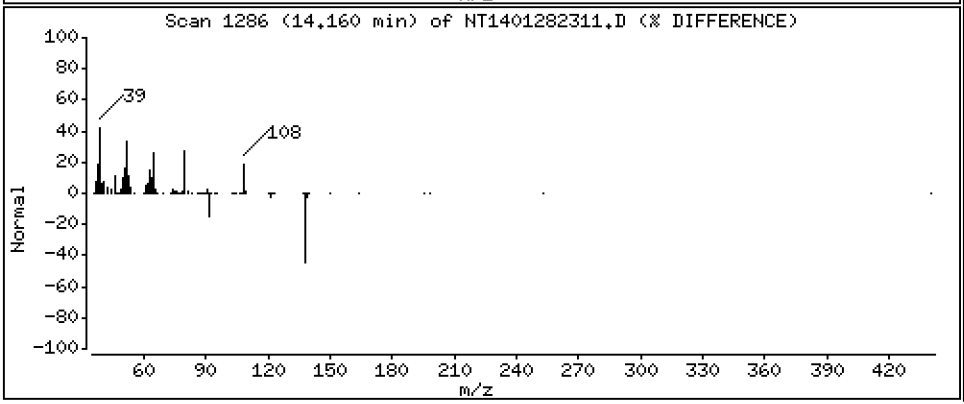
38 2-Nitroaniline

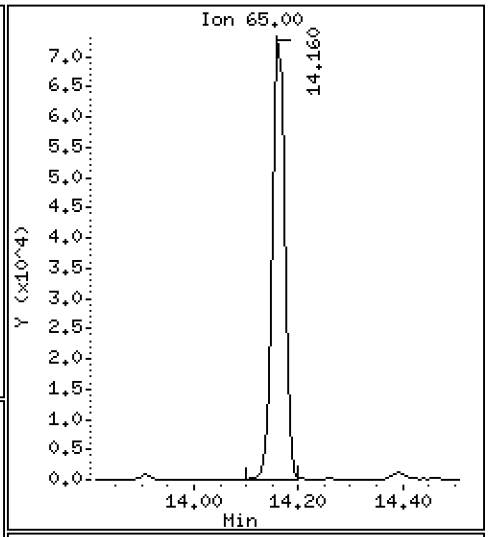
Concentration: 4.509 ug/mL

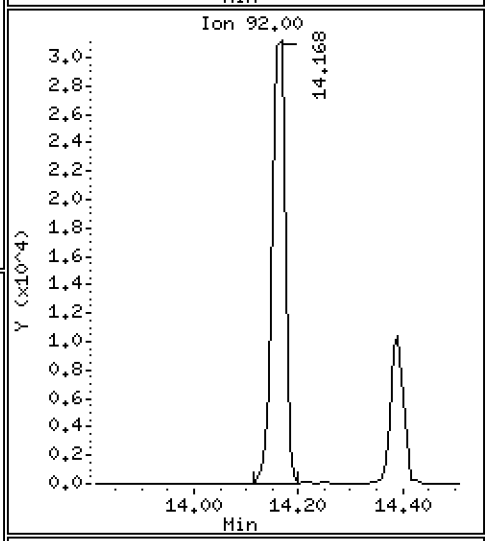


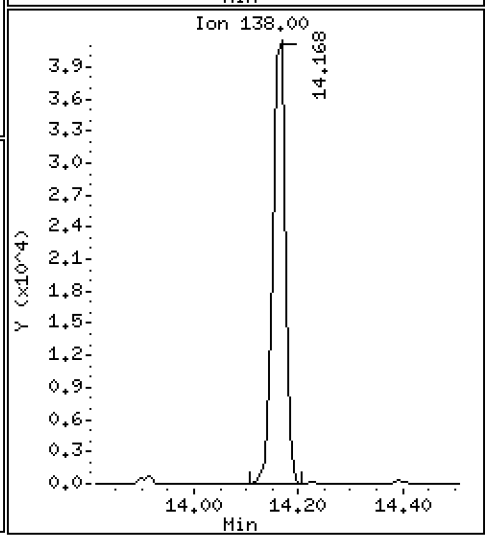












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

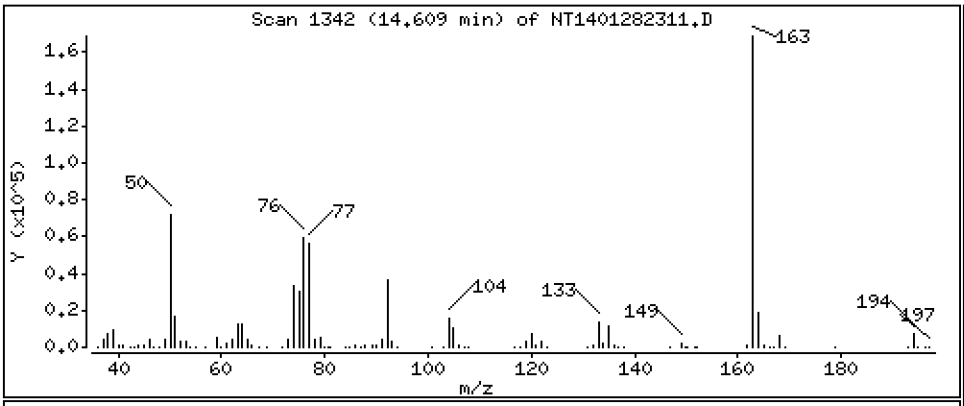
Operator: JGR

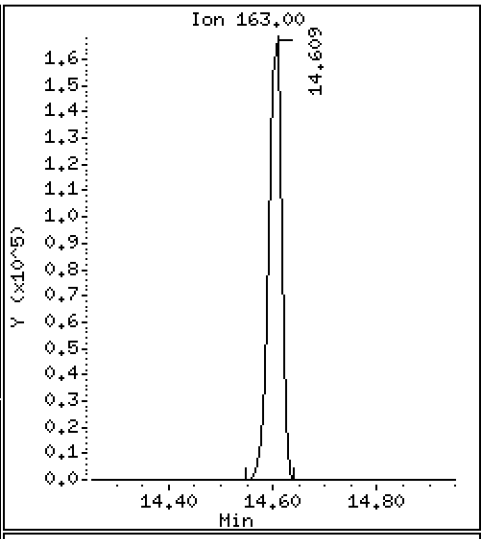
Column phase: ZB-5msi

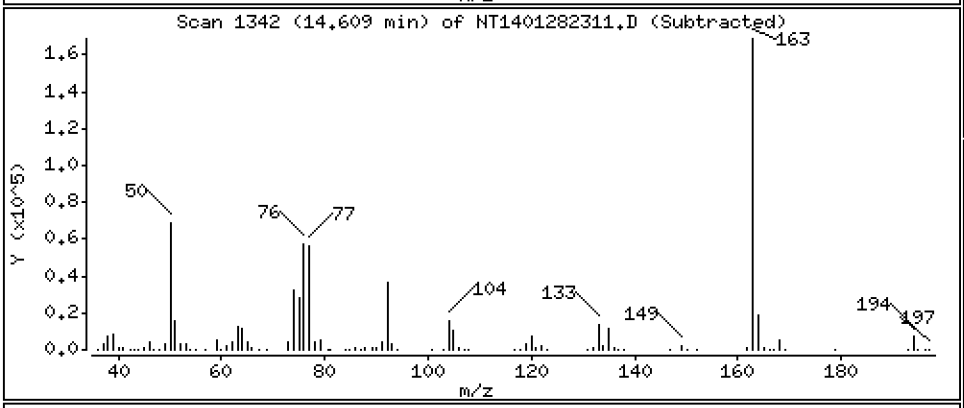
Column diameter: 0.25

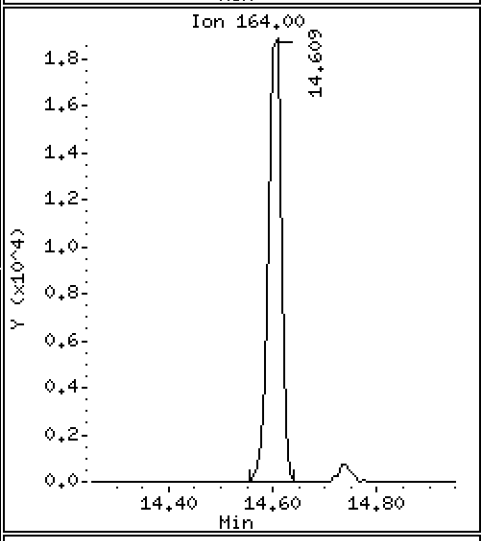
39 Dimethylphthalate

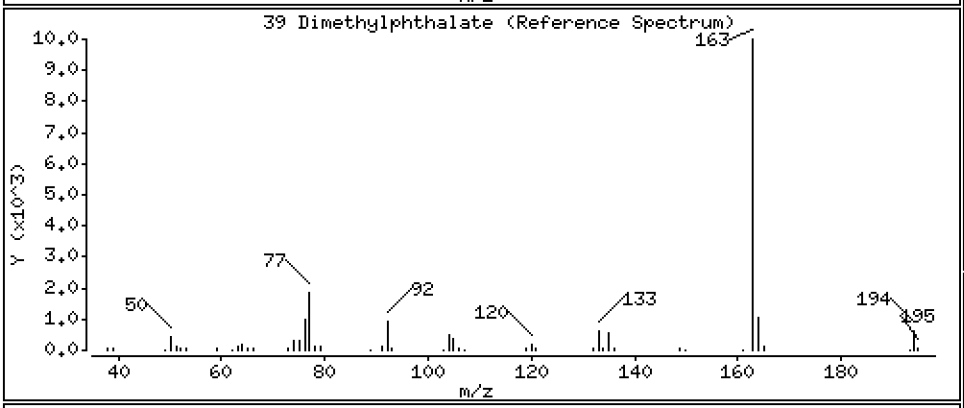
Concentration: 4.875 ug/mL

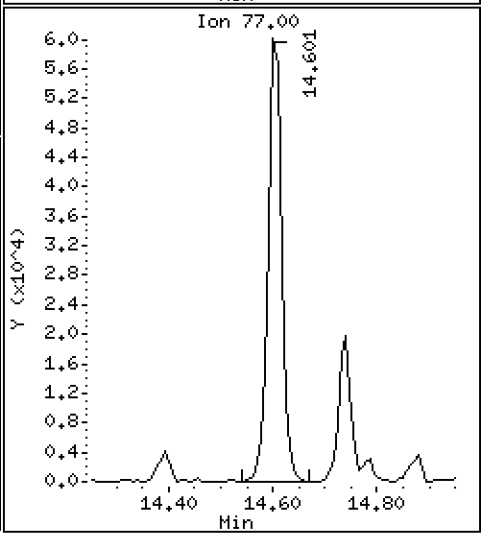


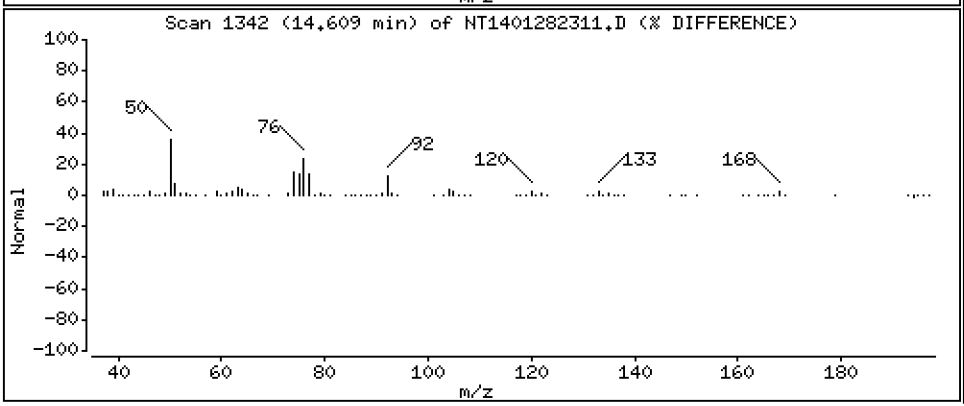












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

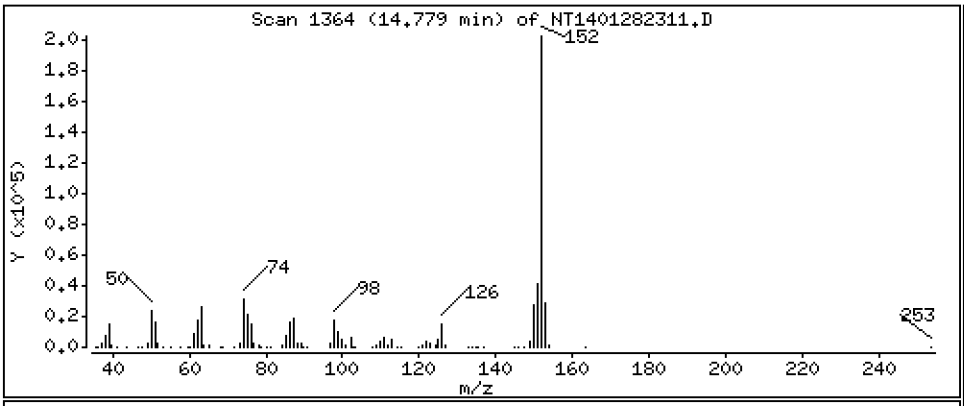
Operator: JGR

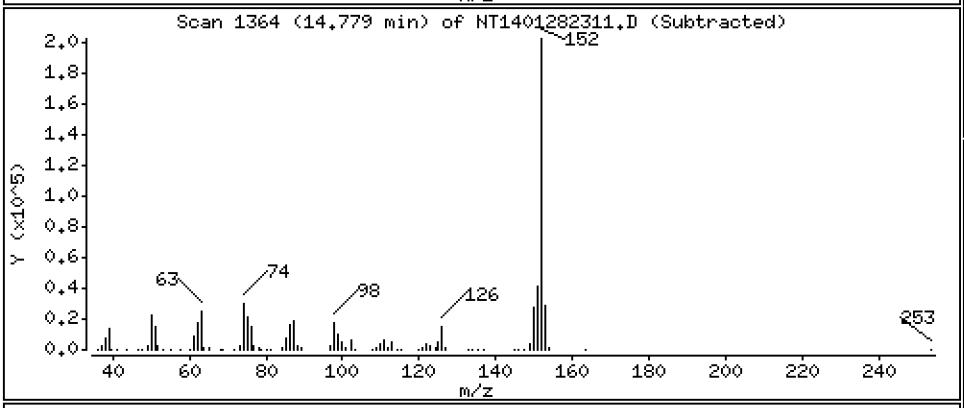
Column phase: ZB-5msi

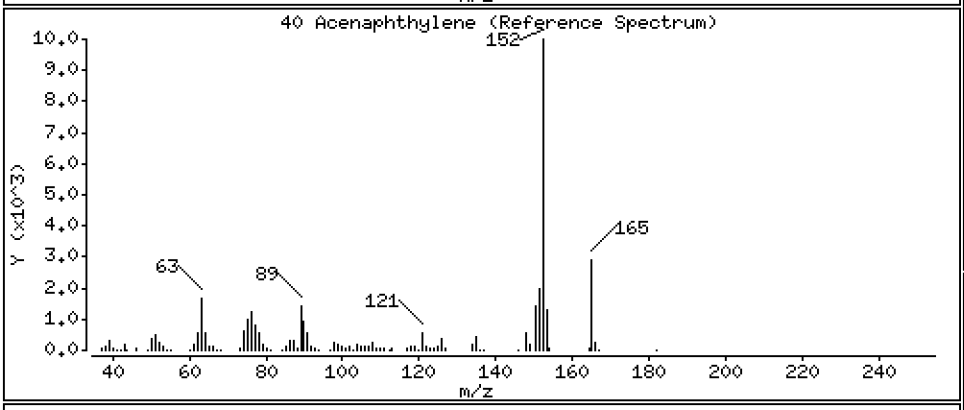
Column diameter: 0.25

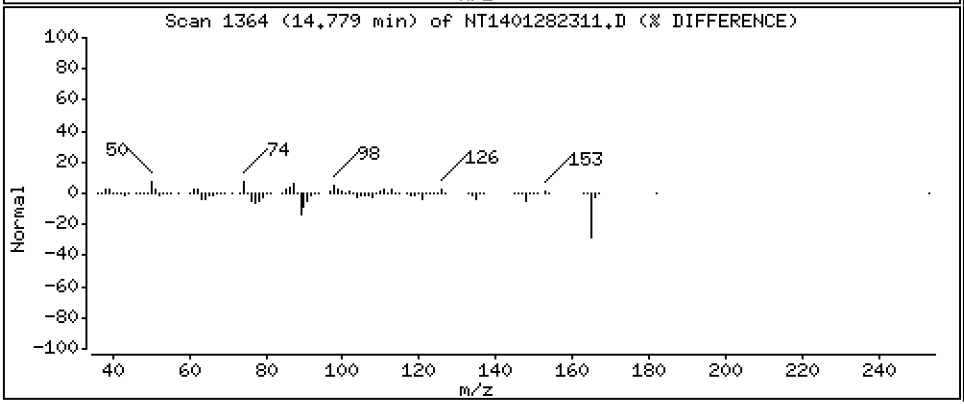
40 Acenaphthylene

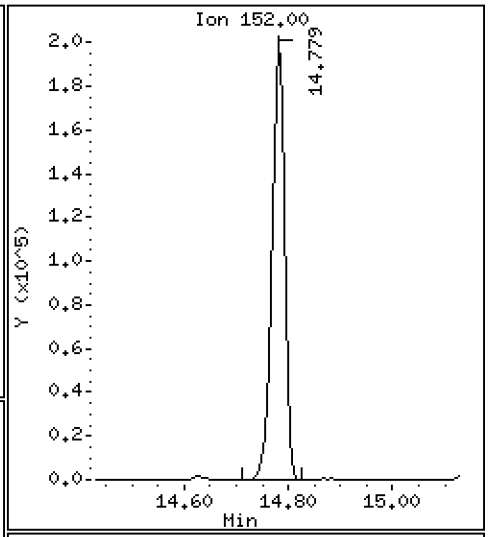
Concentration: 4.695 ug/mL

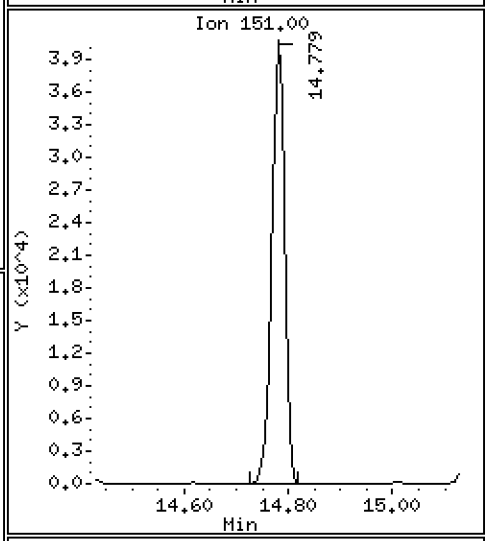


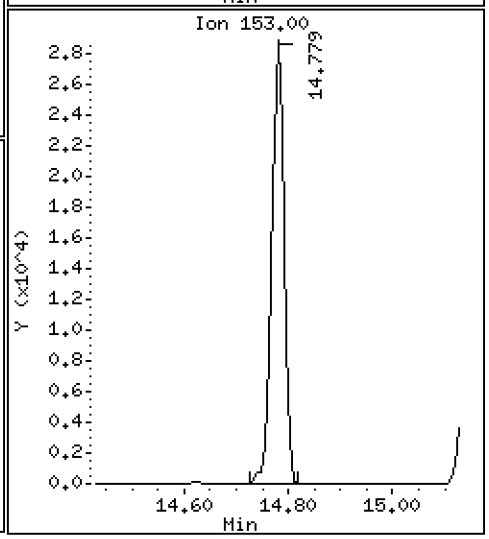












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

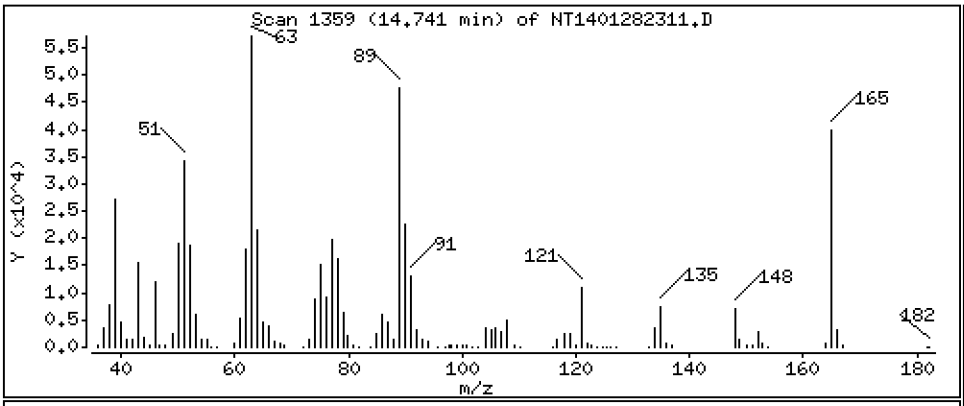
Operator: JGR

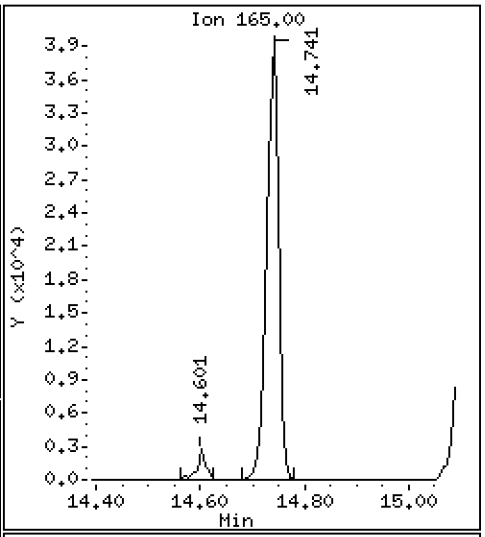
Column phase: ZB-5msi

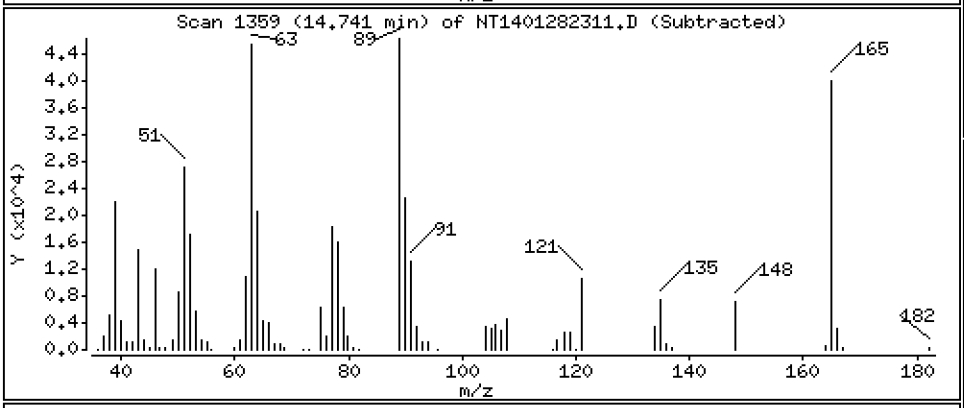
Column diameter: 0.25

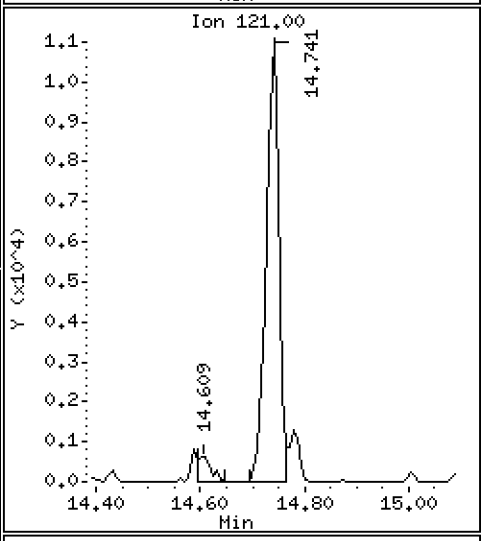
41 2,6-Dinitrotoluene

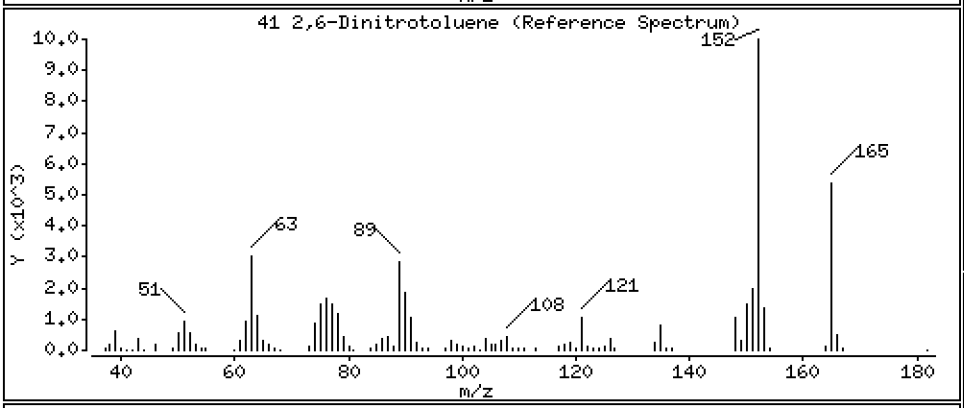
Concentration: 4.603 ug/mL

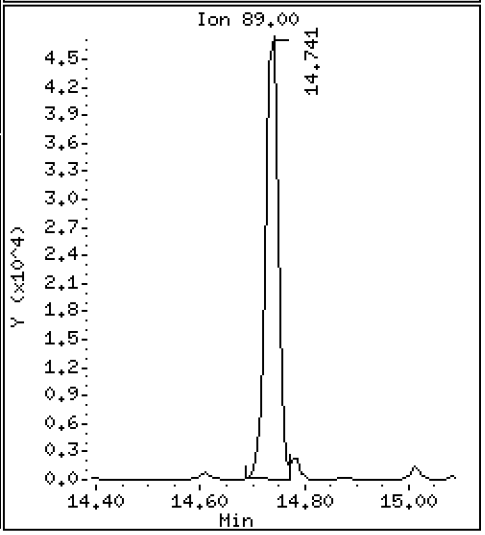


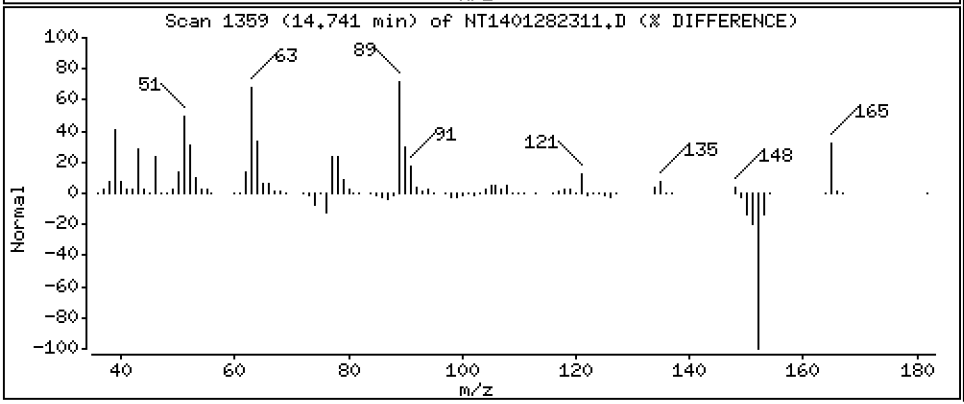












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

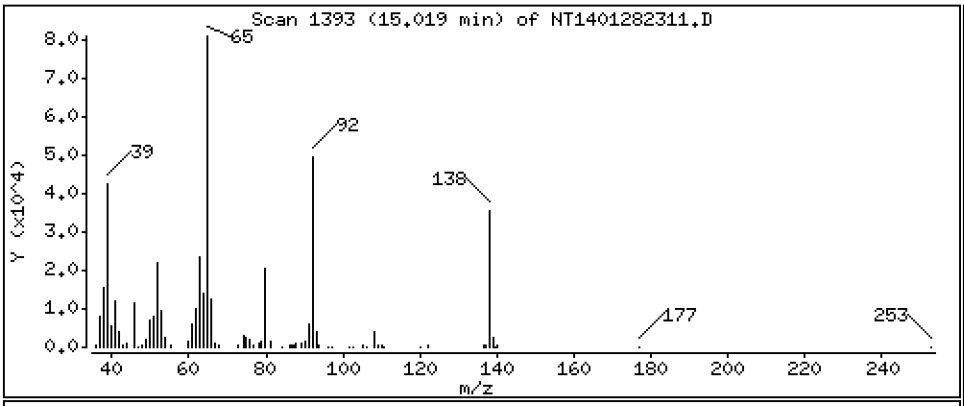
Operator: JGR

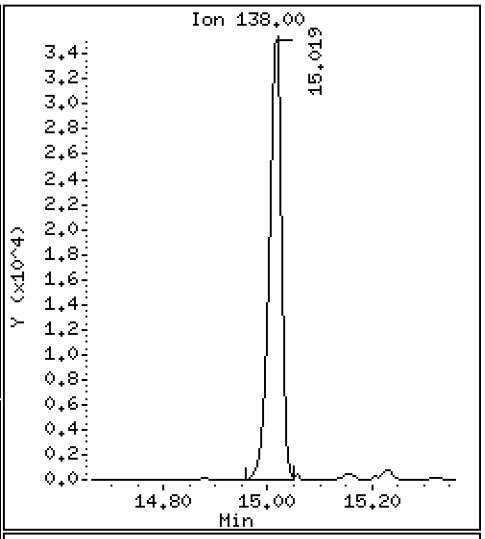
Column phase: ZB-5msi

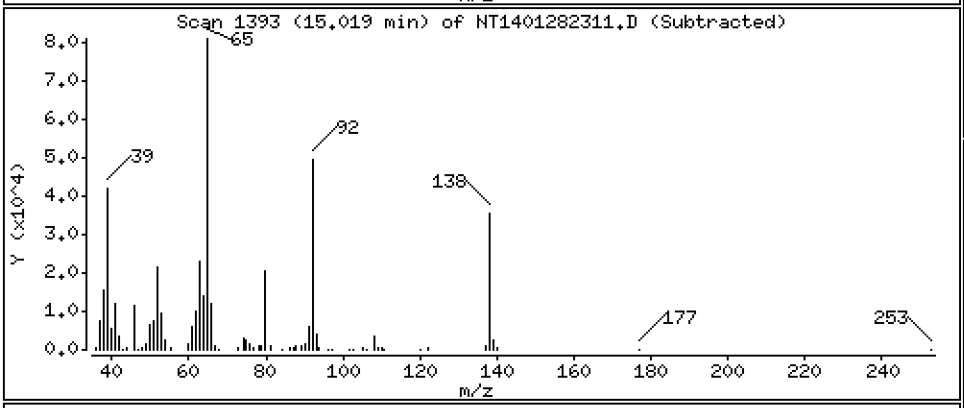
Column diameter: 0.25

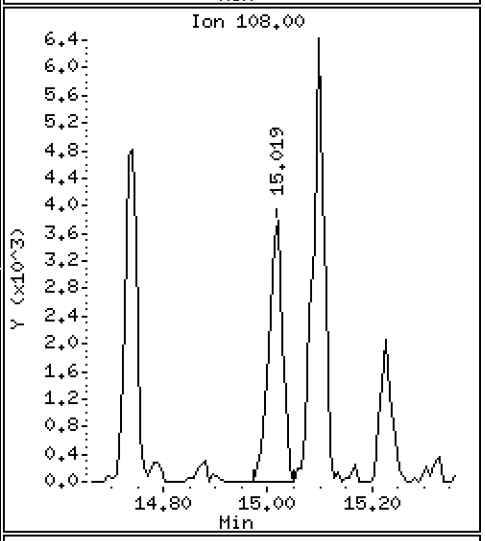
43 3-Nitroaniline

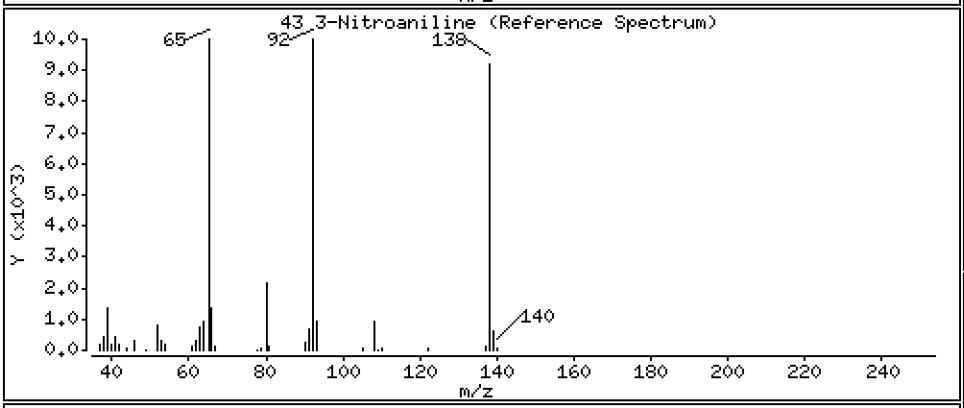
Concentration: 4.476 ug/mL

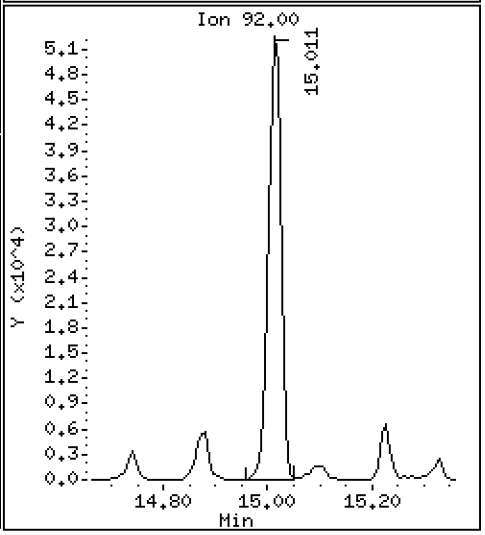


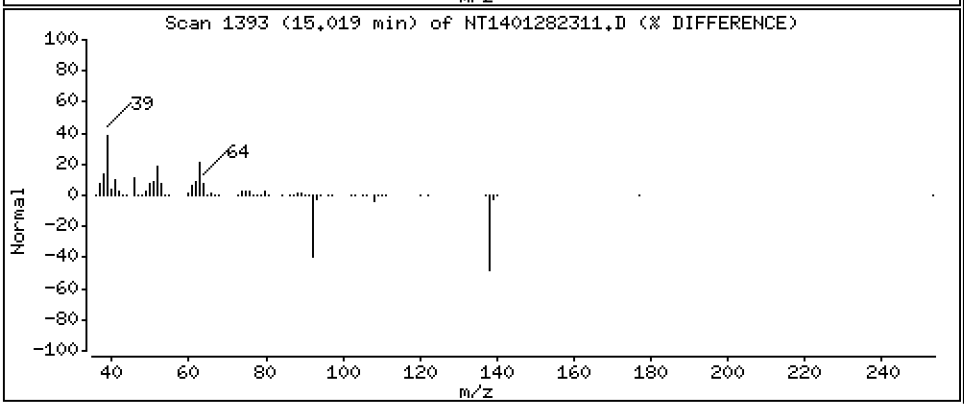












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

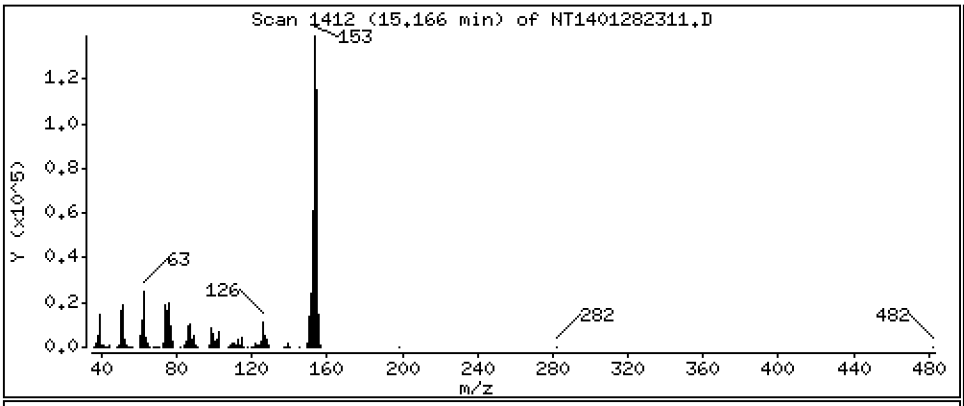
Operator: JGR

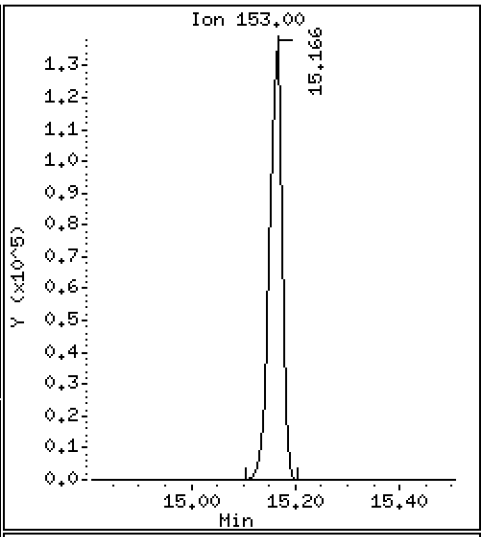
Column phase: ZB-5msi

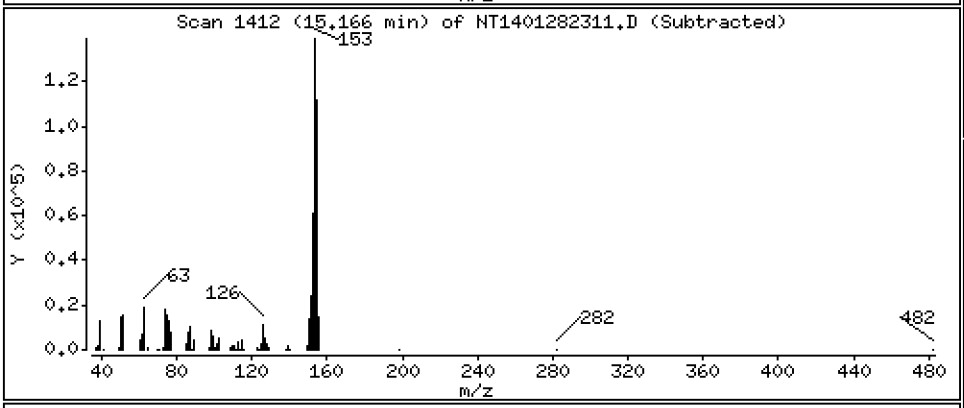
Column diameter: 0.25

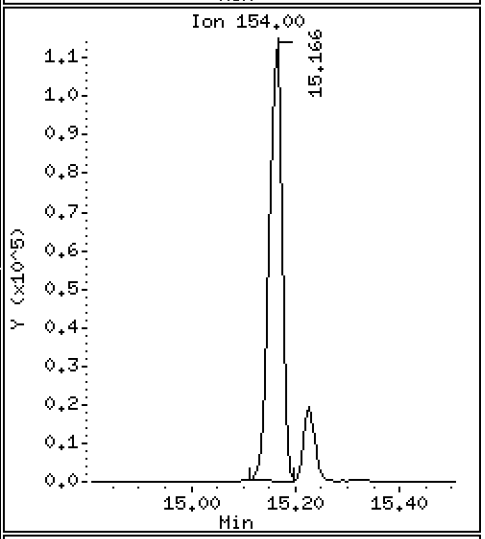
44 Acenaphthene

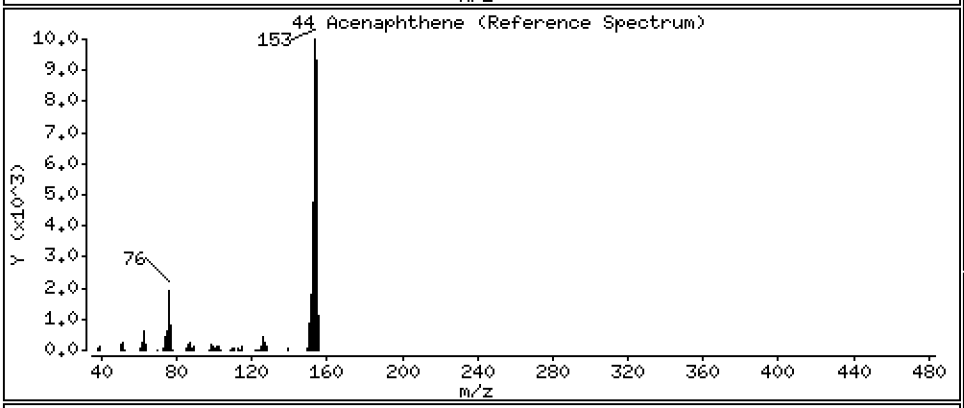
Concentration: 4.827 ug/mL

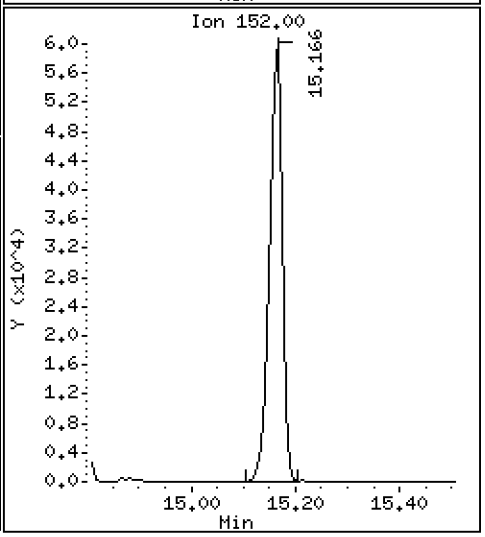


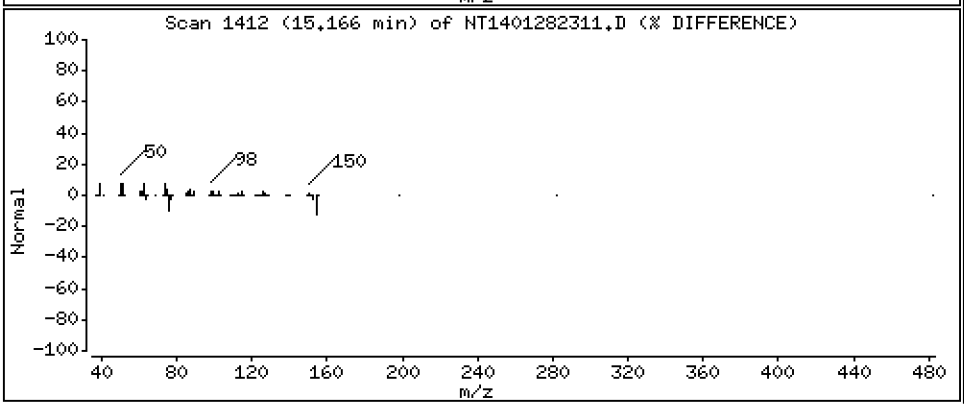












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

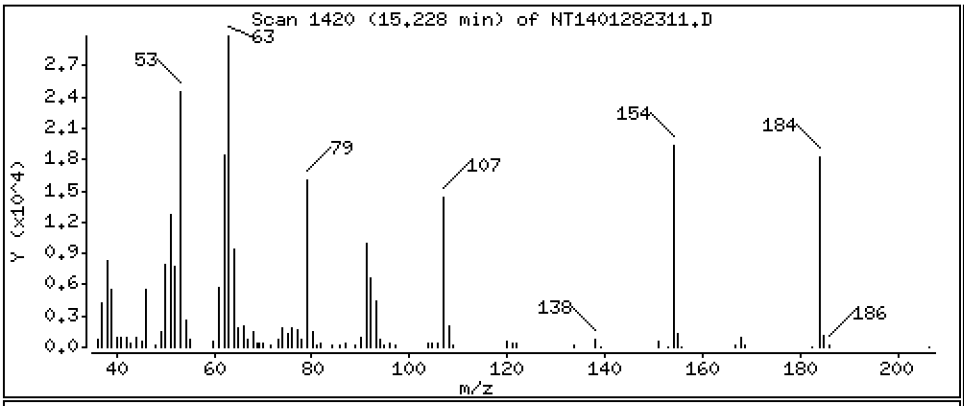
Operator: JGR

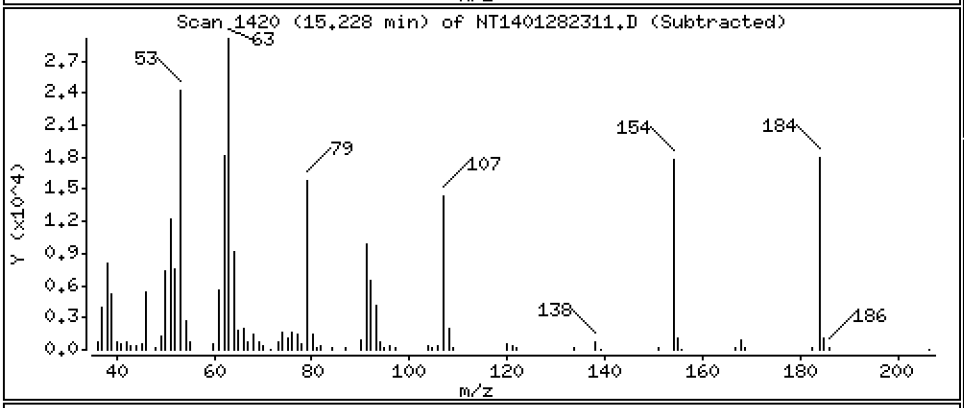
Column phase: ZB-5msi

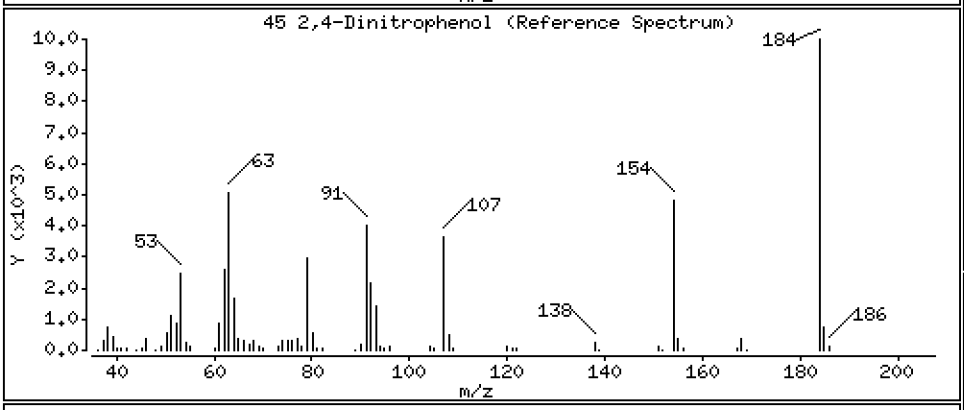
Column diameter: 0.25

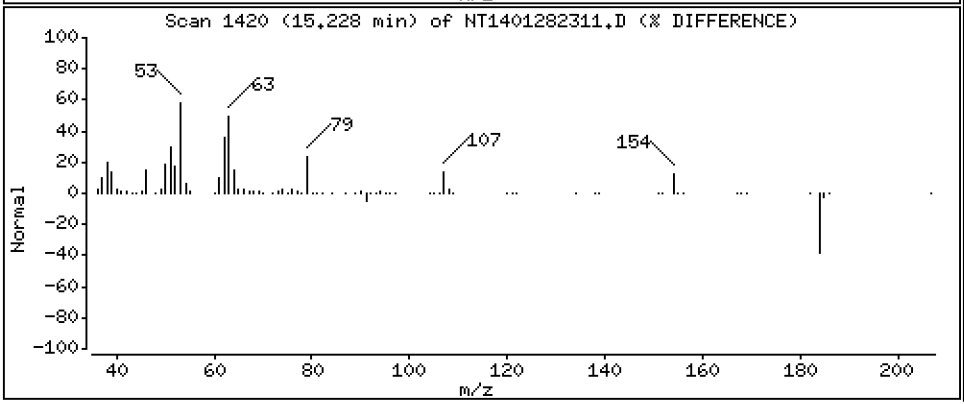
45 2,4-Dinitrophenol

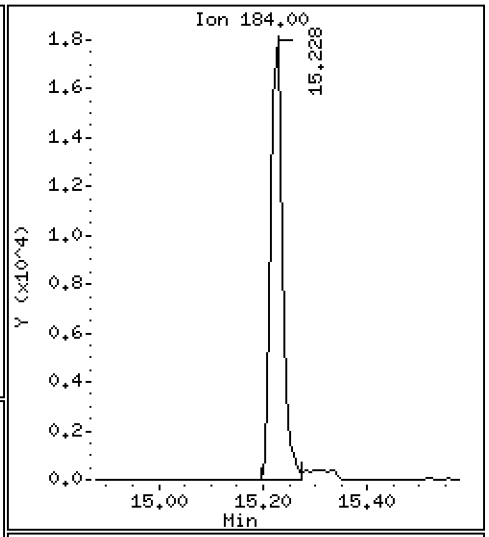
Concentration: 2.106 ug/mL

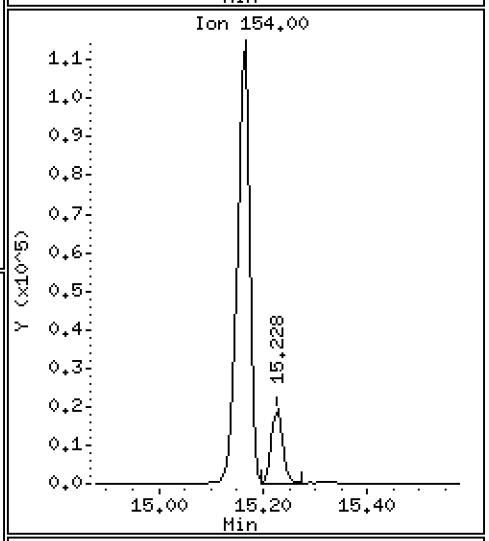


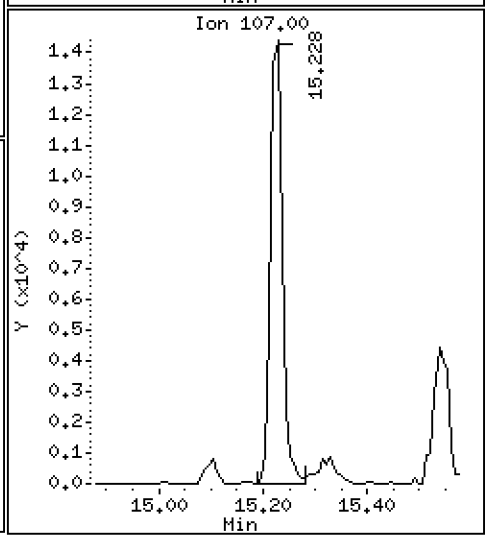












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

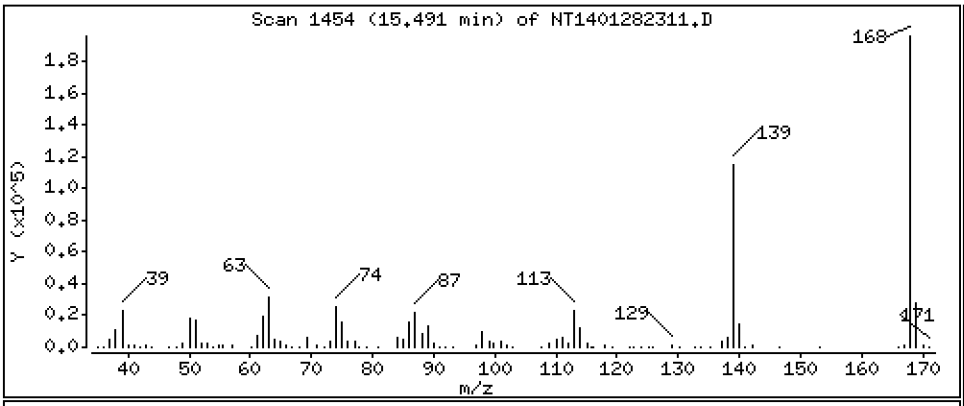
Operator: JGR

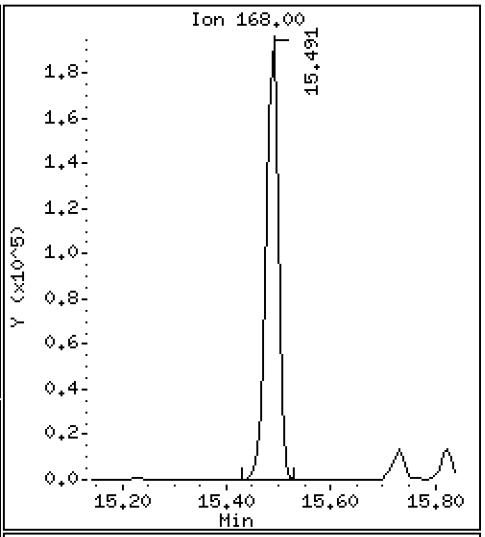
Column phase: ZB-5msi

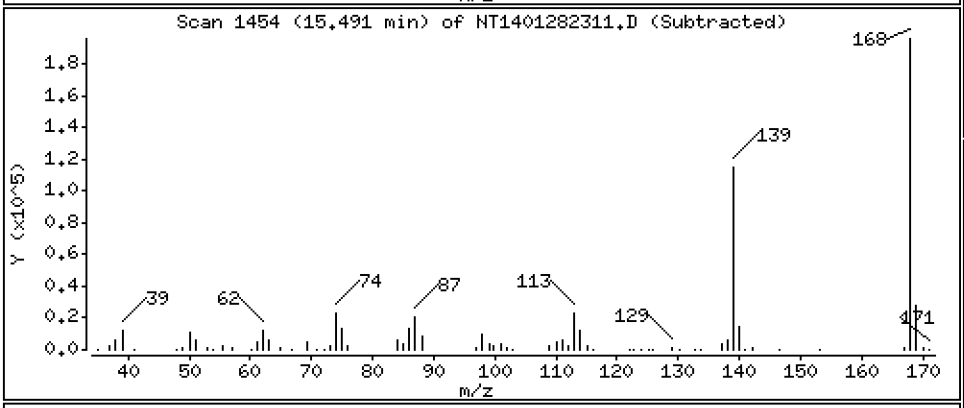
Column diameter: 0.25

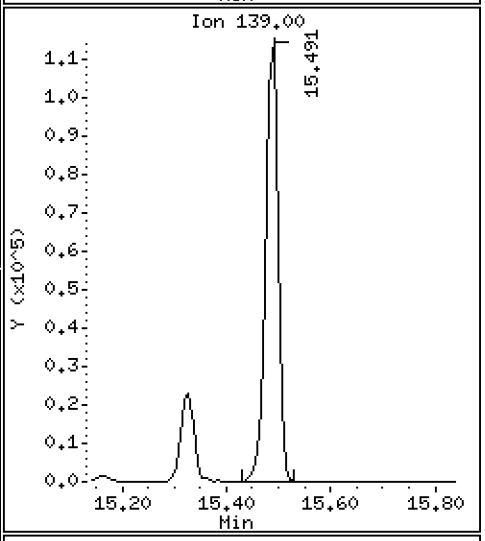
46 Dibenzofuran

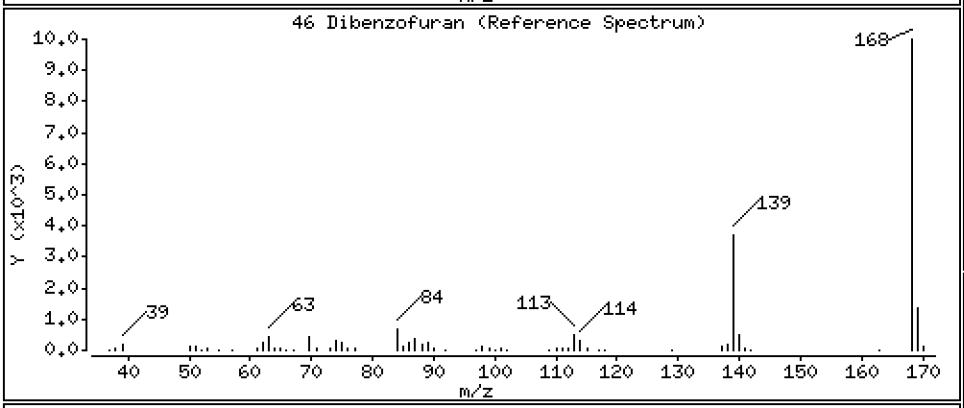
Concentration: 4.553 ug/mL

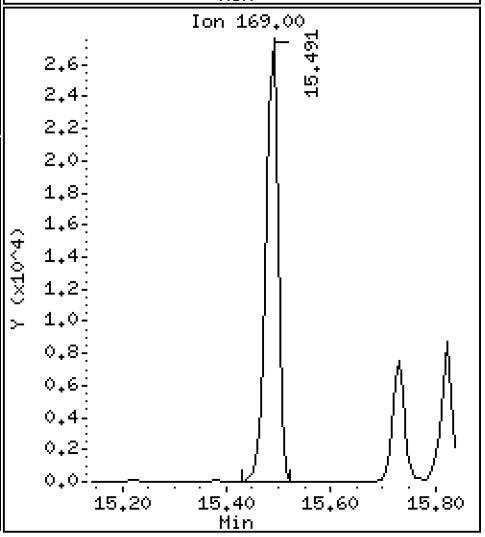


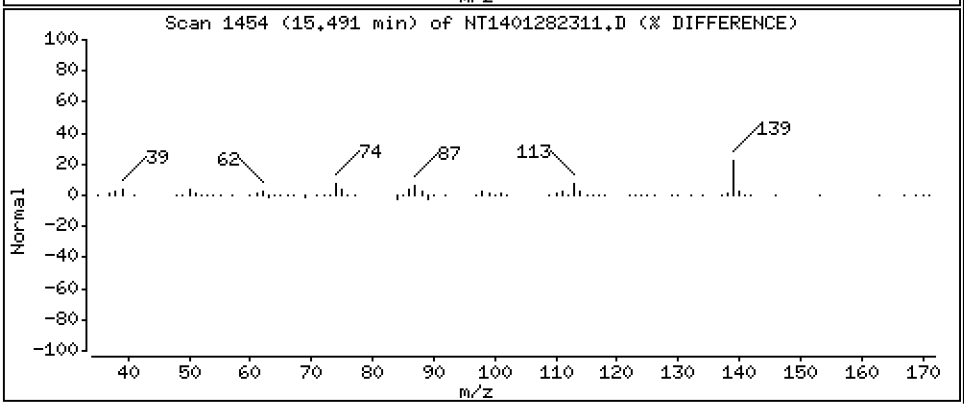












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

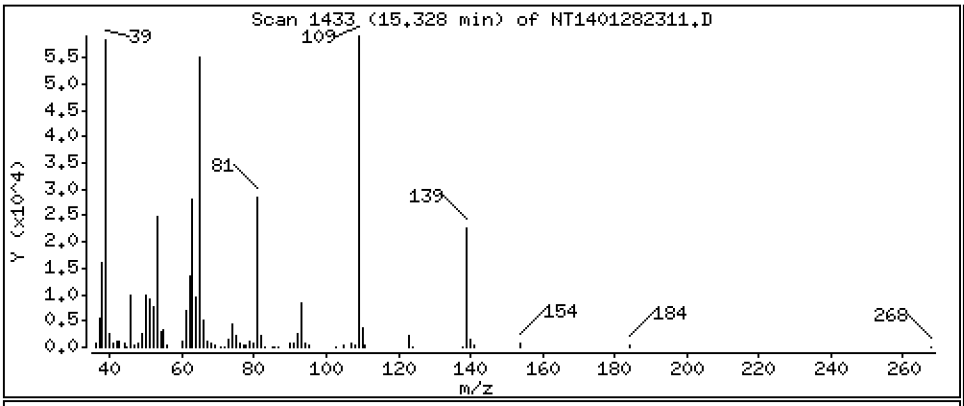
Operator: JGR

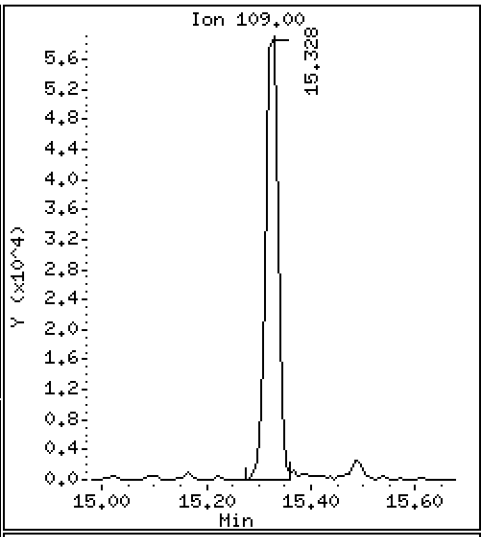
Column phase: ZB-5msi

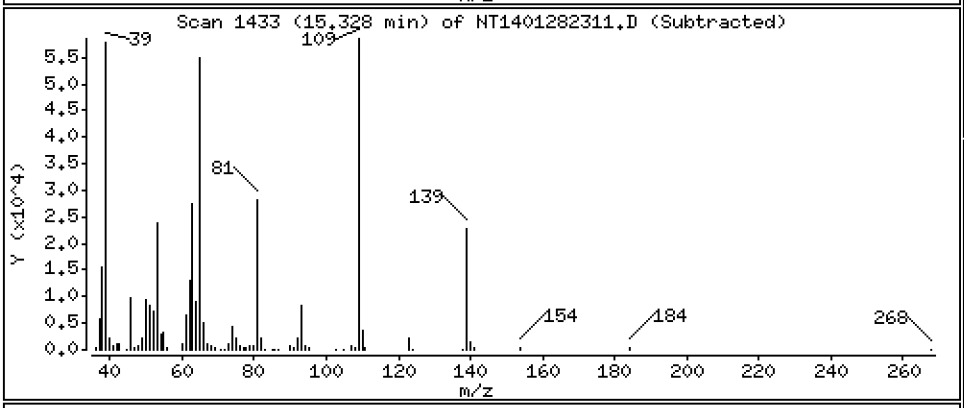
Column diameter: 0.25

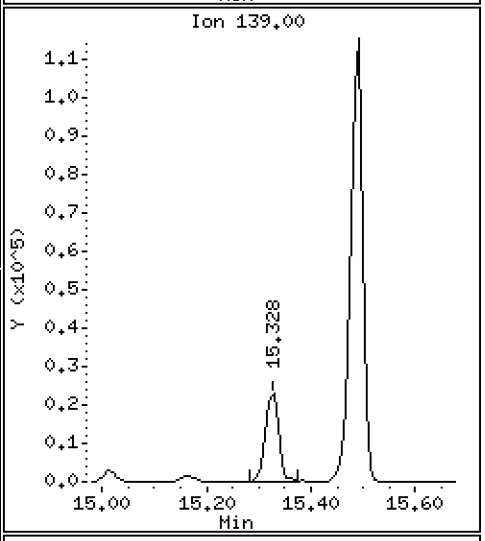
47 4-Nitrophenol

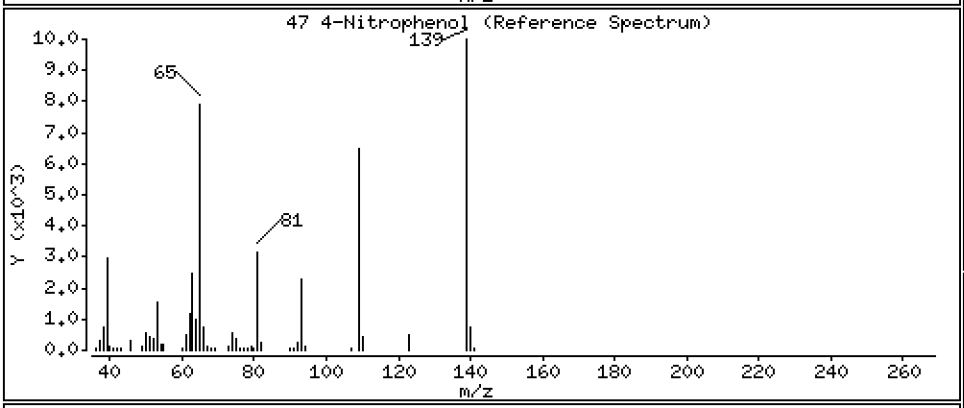
Concentration: 3.657 ug/mL

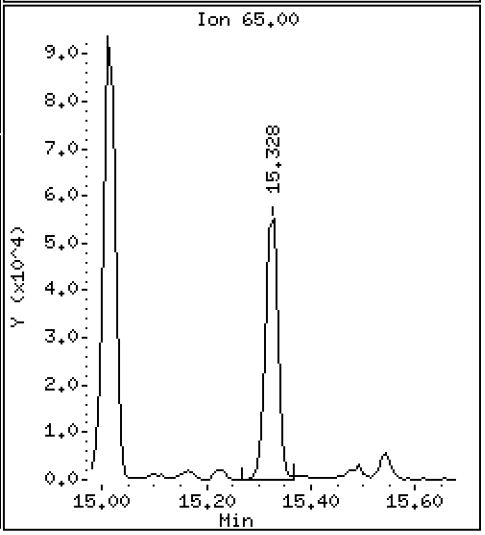


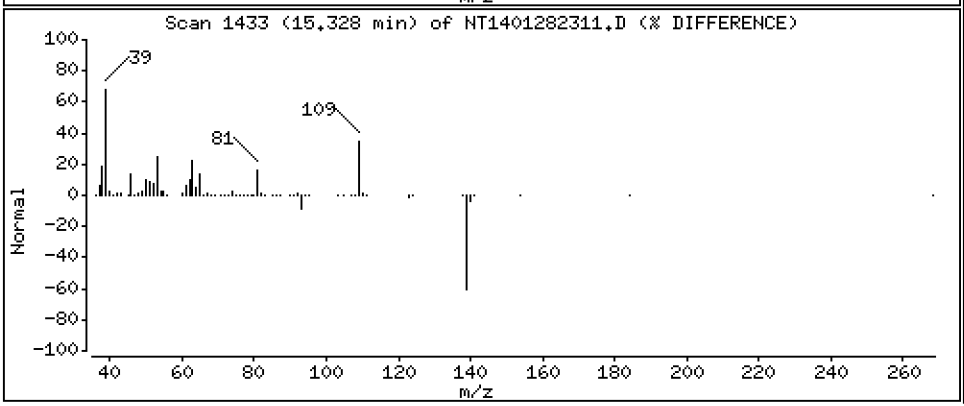












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

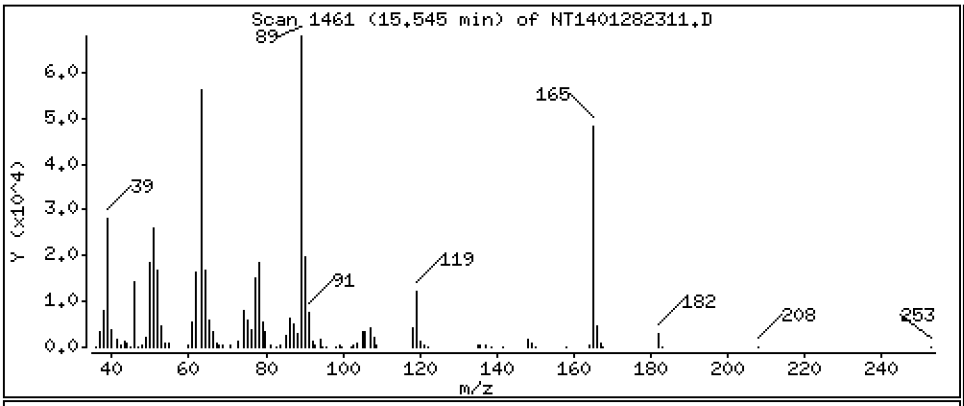
Operator: JGR

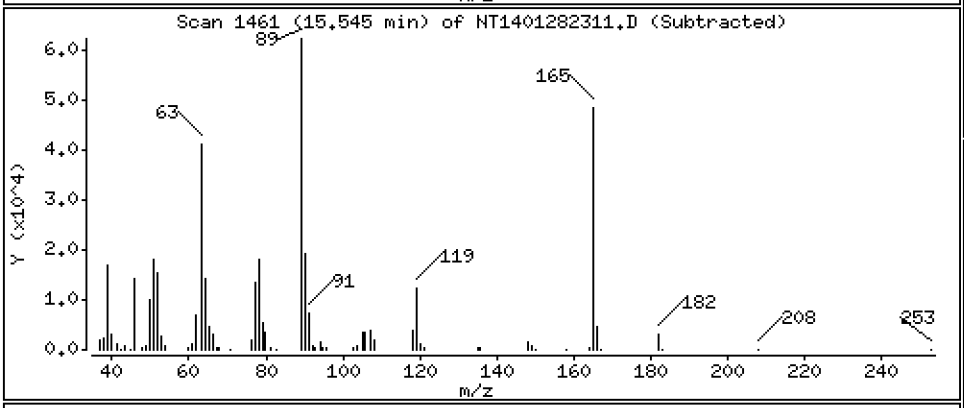
Column phase: ZB-5msi

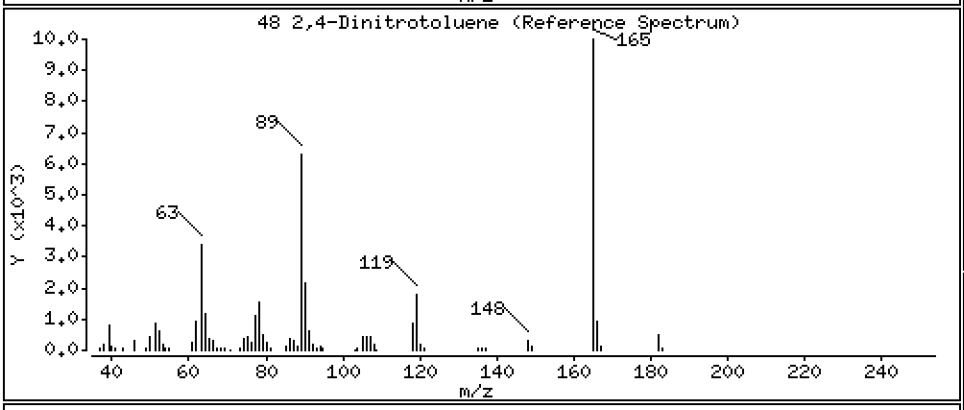
Column diameter: 0.25

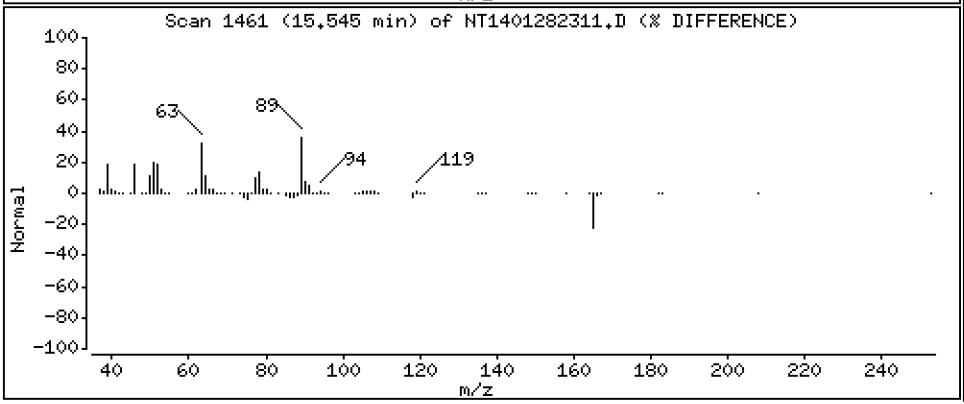
48 2,4-Dinitrotoluene

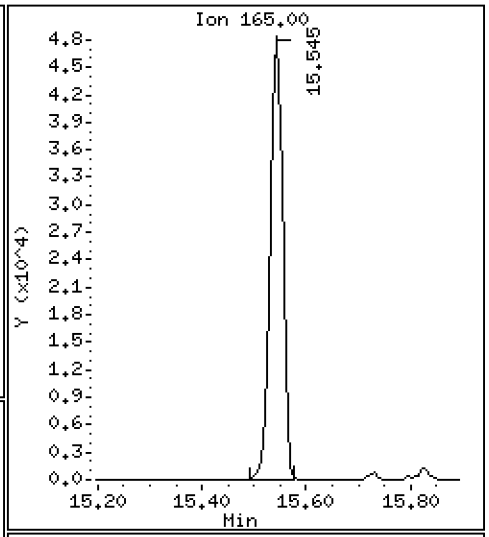
Concentration: 4.312 ug/mL

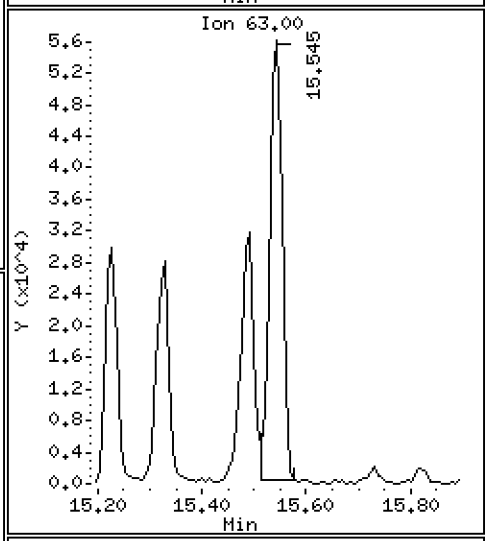


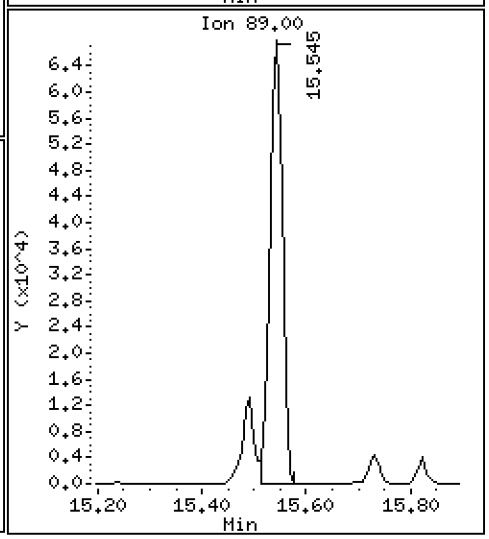












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

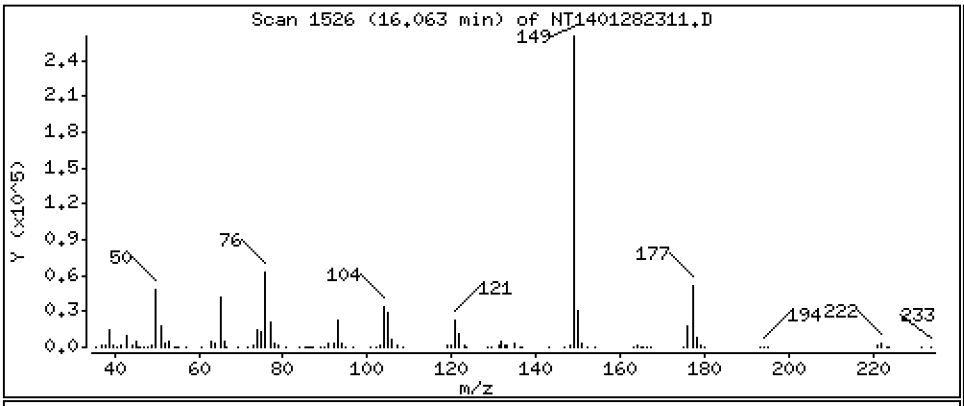
Operator: JGR

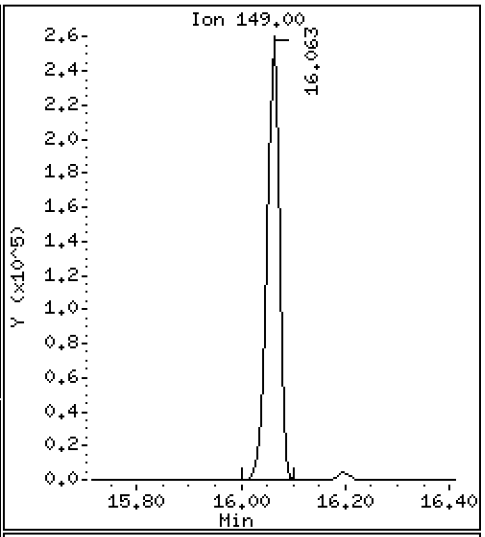
Column phase: ZB-5msi

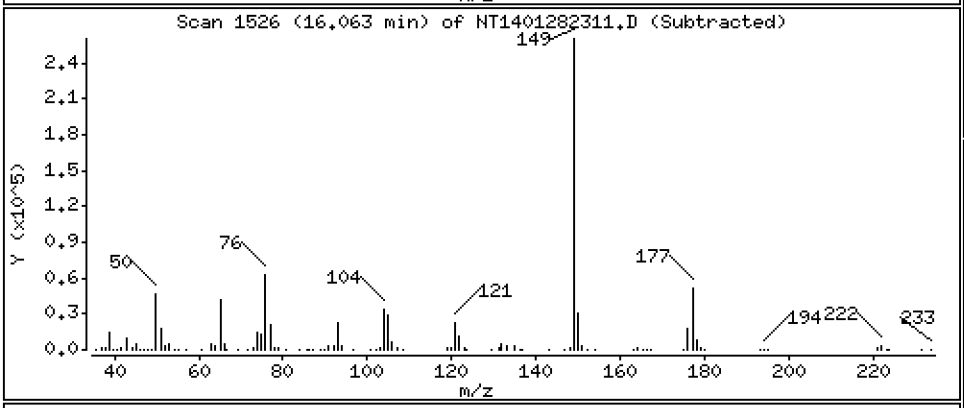
Column diameter: 0.25

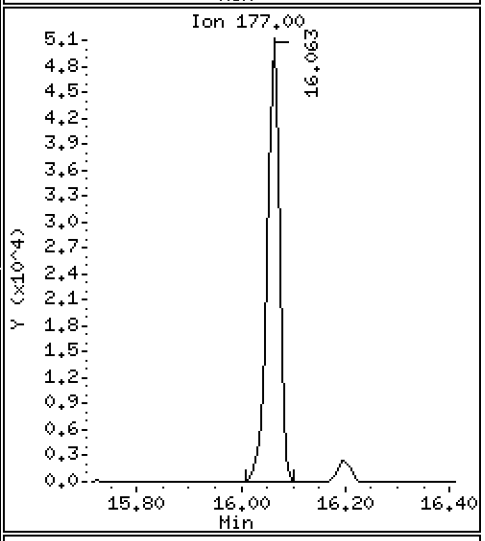
50 Diethylphthalate

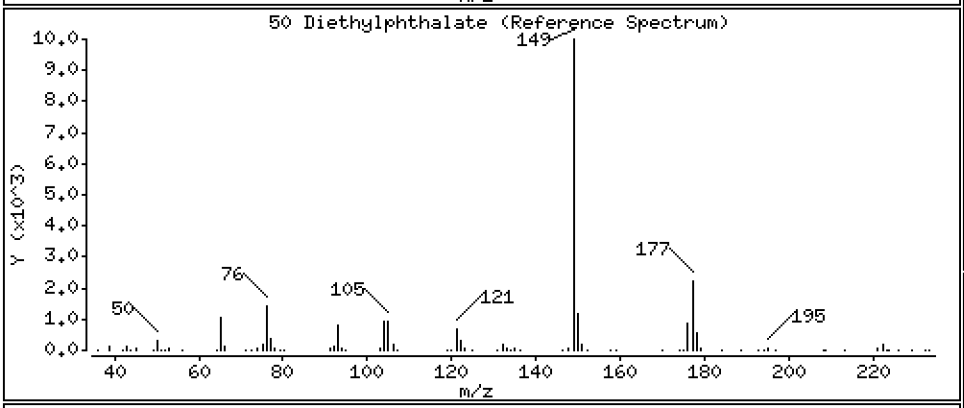
Concentration: 4.955 ug/mL

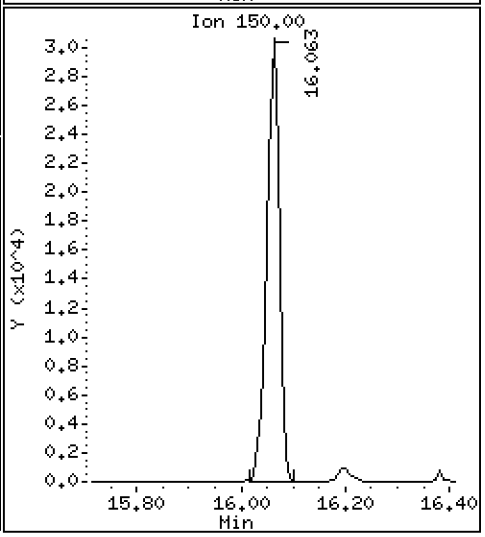


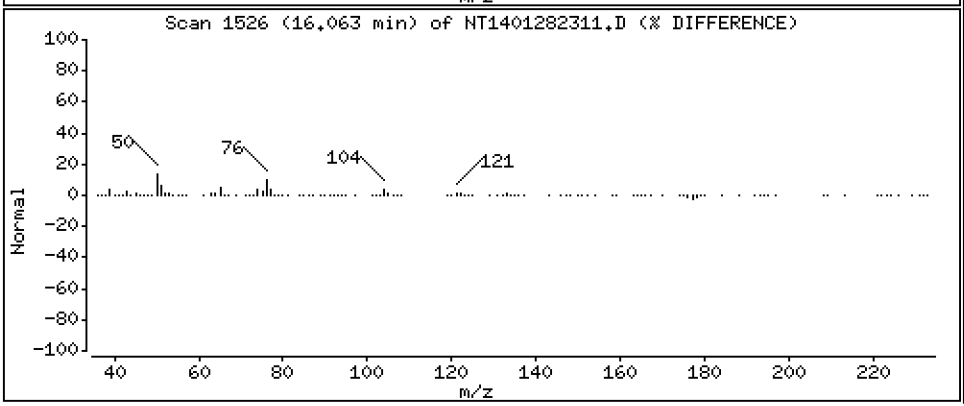












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

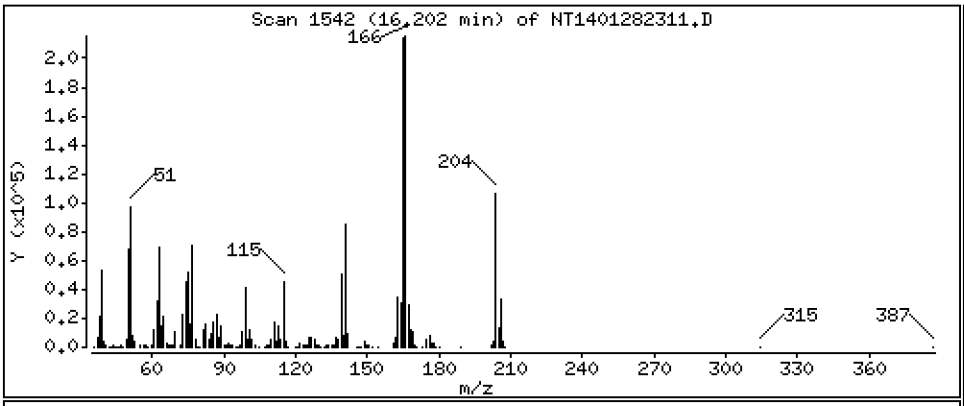
Operator: JGR

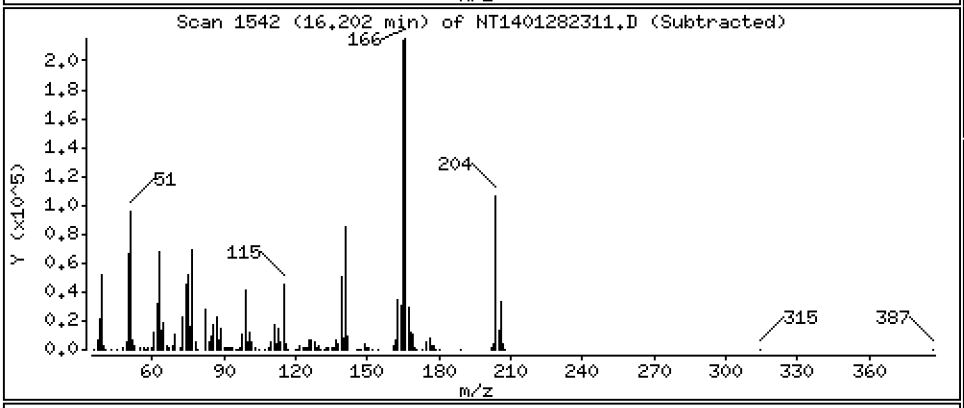
Column phase: ZB-5msi

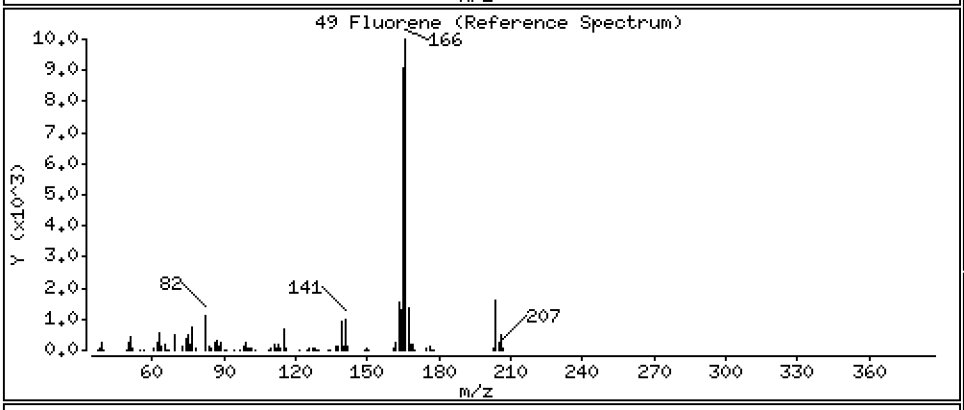
Column diameter: 0.25

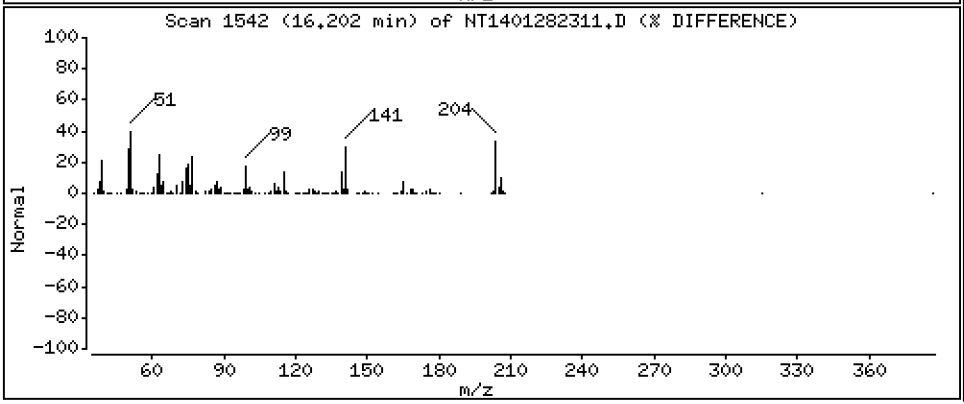
49 Fluorene

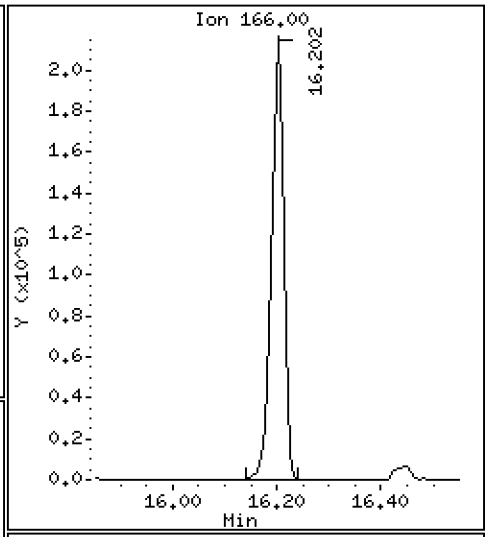
Concentration: 4.724 ug/mL

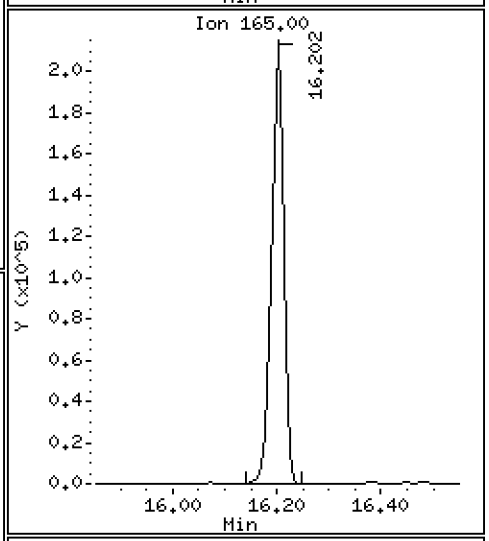


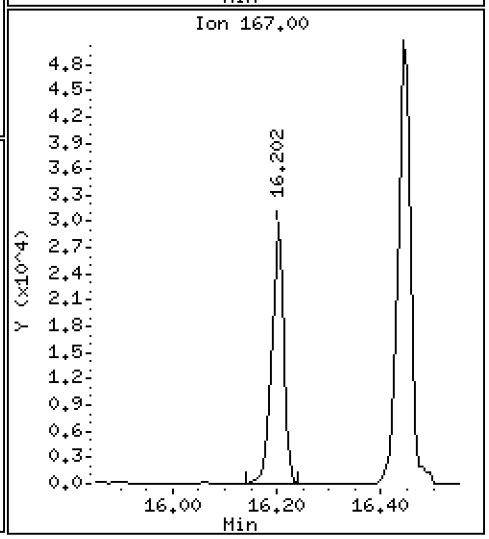












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

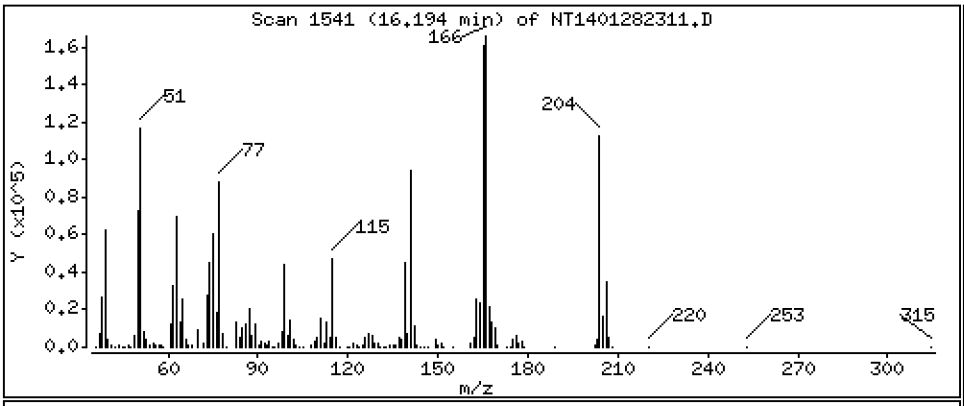
Operator: JGR

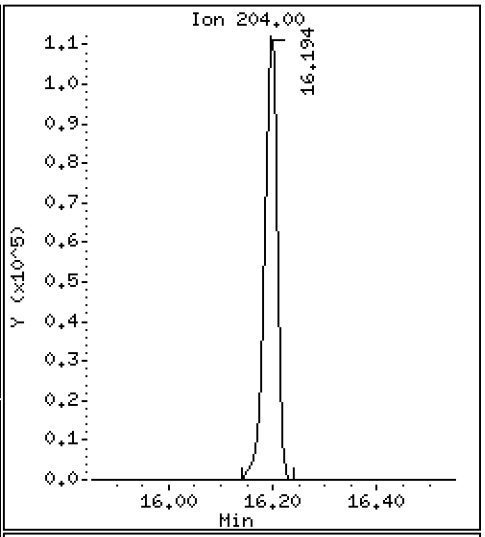
Column phase: ZB-5msi

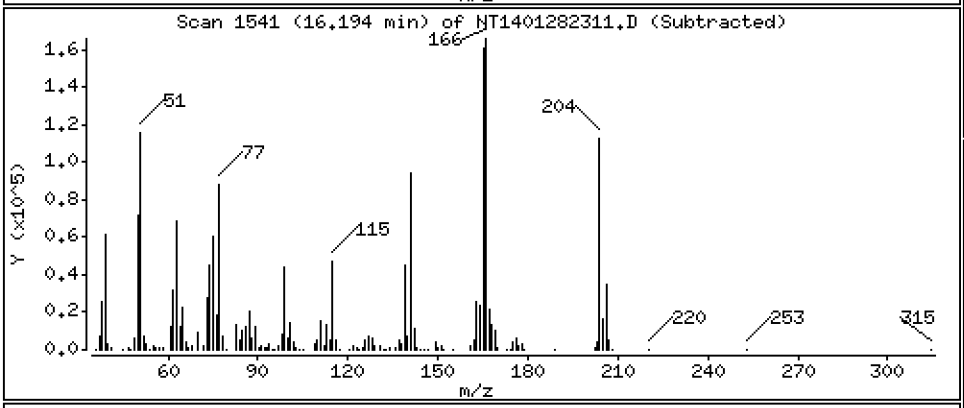
Column diameter: 0.25

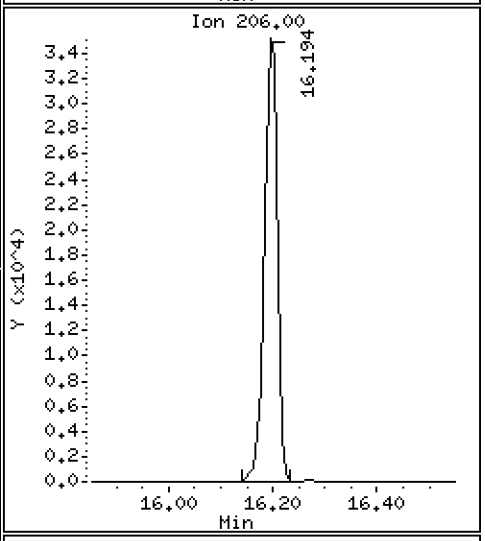
51 4-Chlorophenyl-phenylether

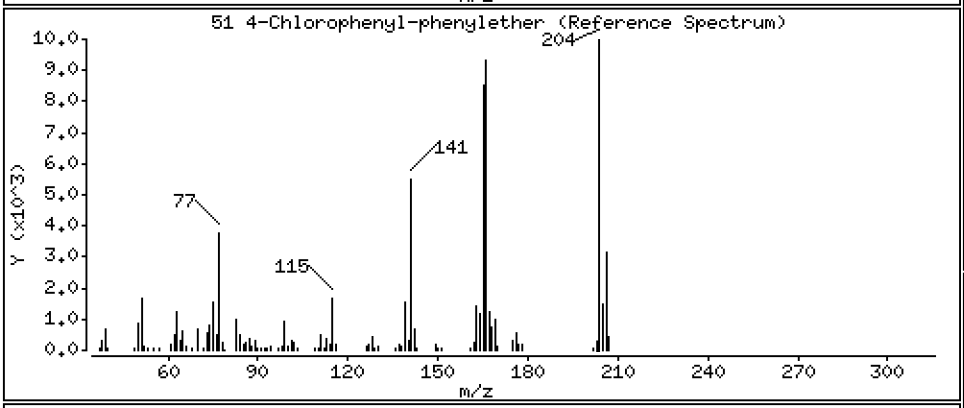
Concentration: 4.484 ug/mL

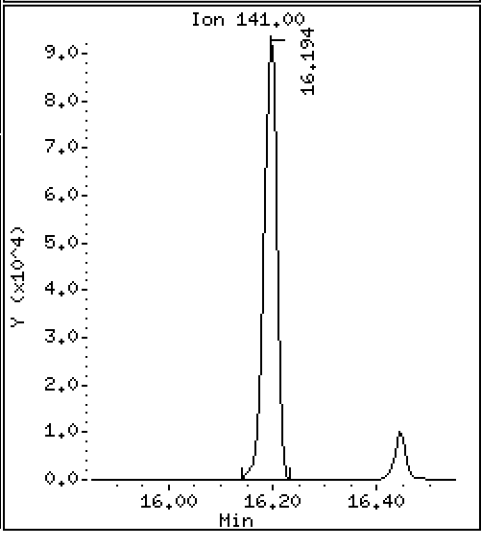


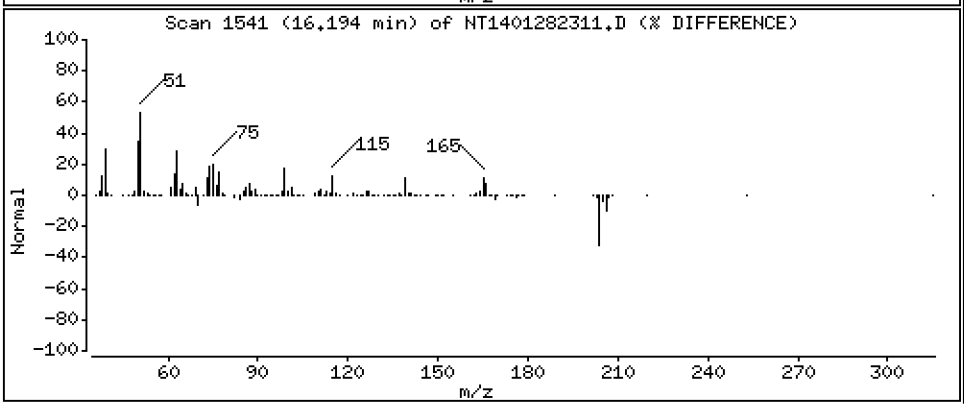












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

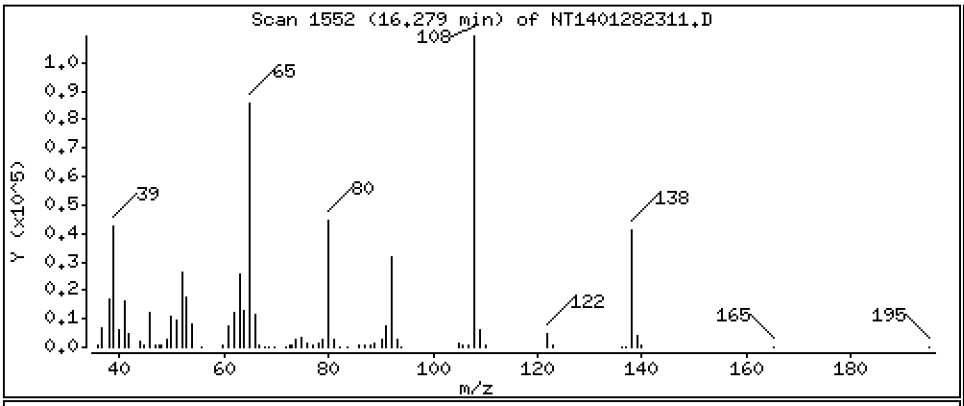
Operator: JGR

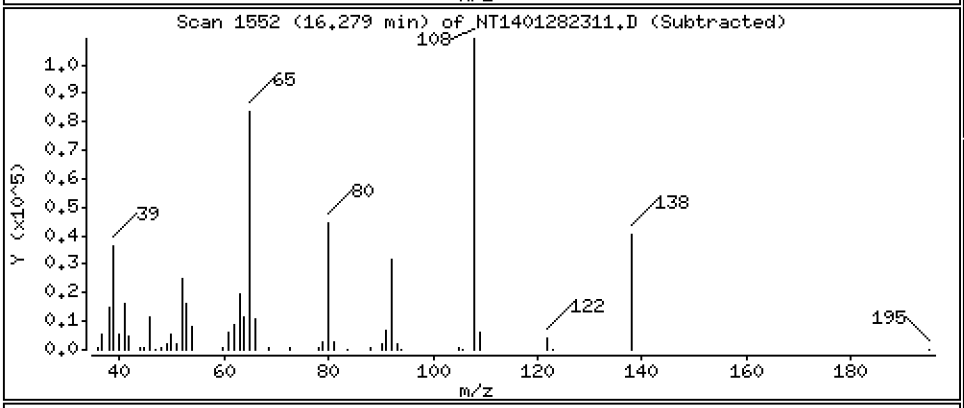
Column phase: ZB-5msi

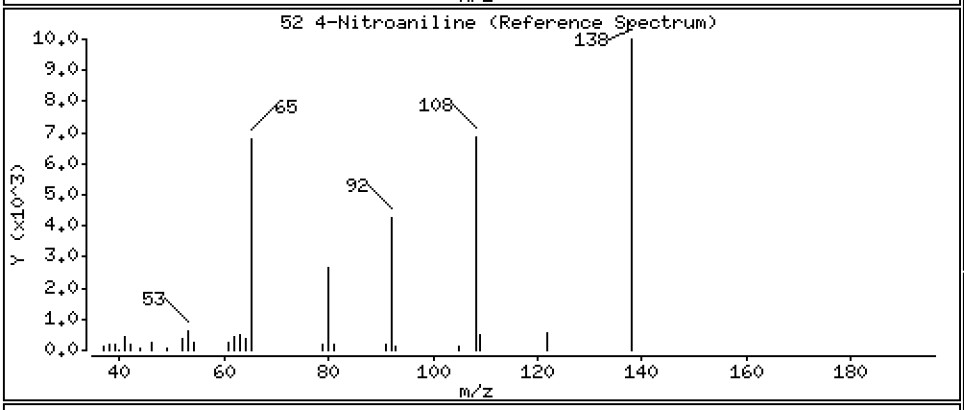
Column diameter: 0.25

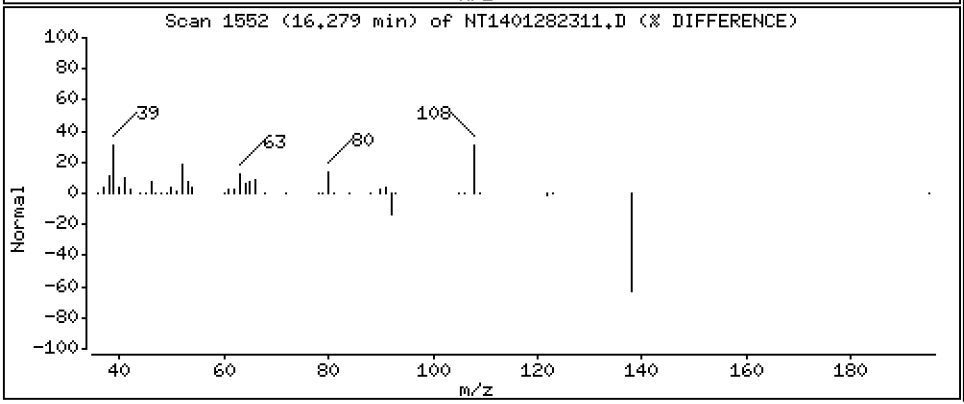
52 4-Nitroaniline

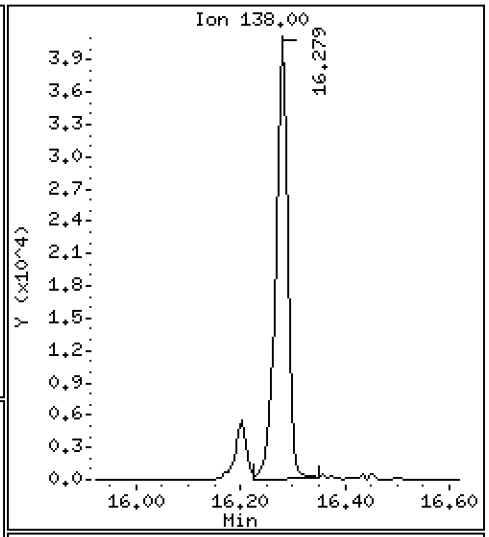
Concentration: 4.505 ug/mL

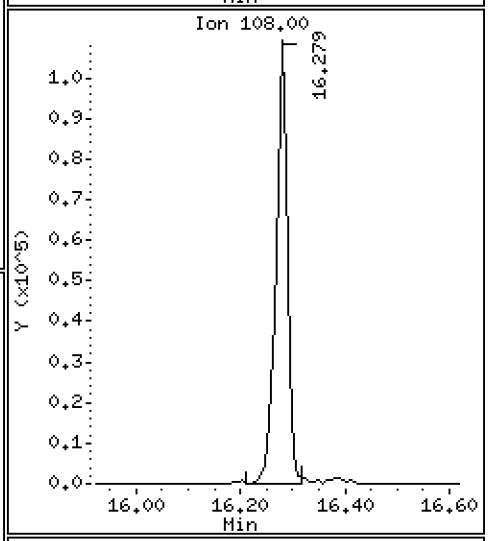


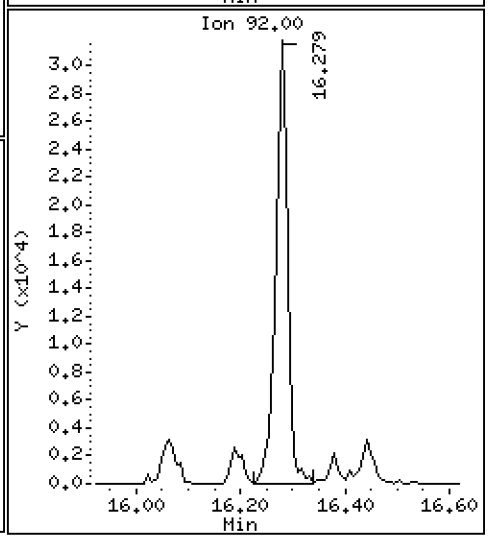












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

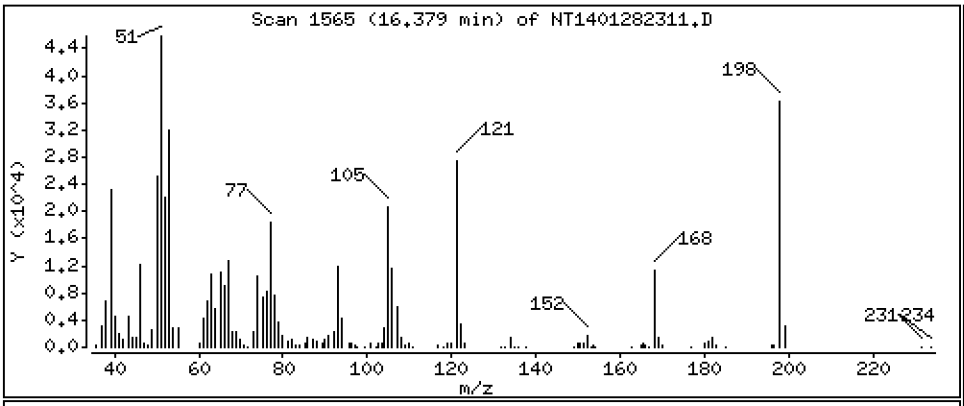
Operator: JGR

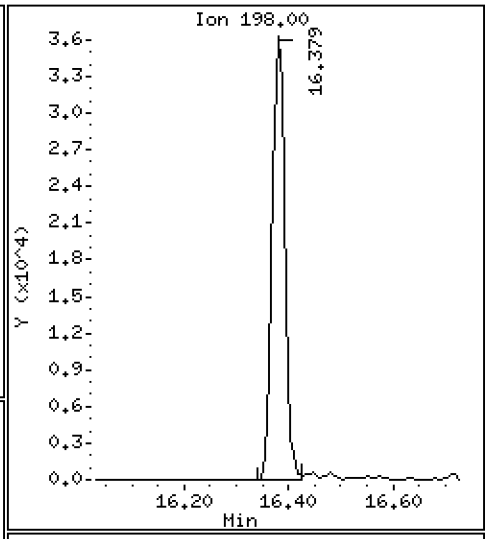
Column phase: ZB-5msi

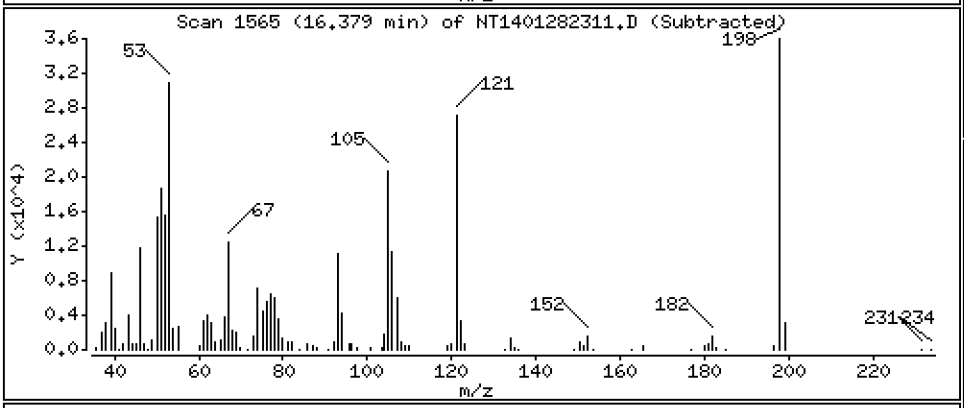
Column diameter: 0.25

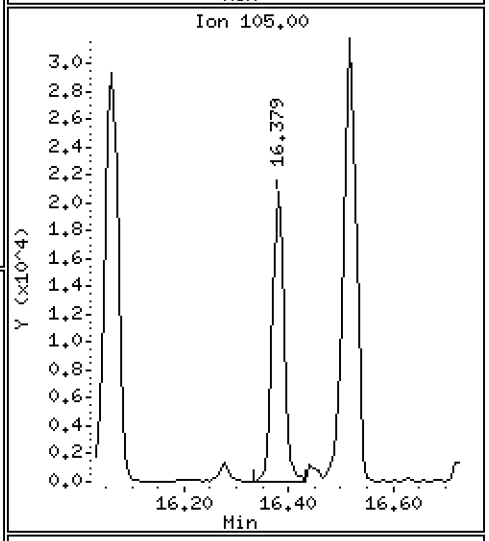
53 4,6-Dinitro-2-methylphenol

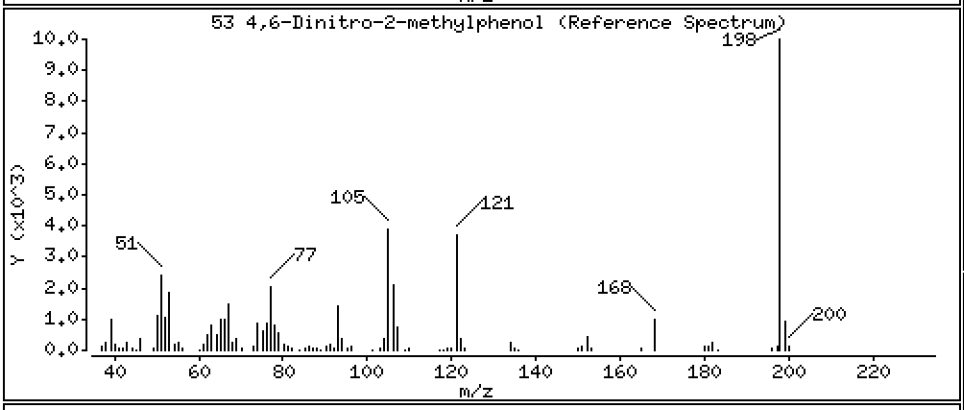
Concentration: 3.422 ug/mL

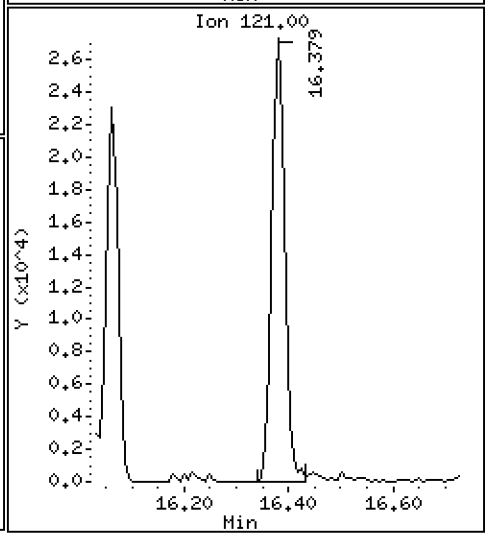


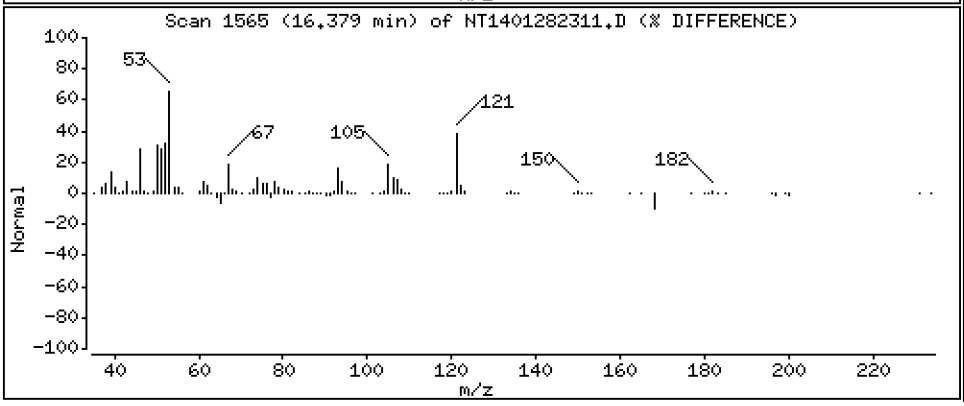












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

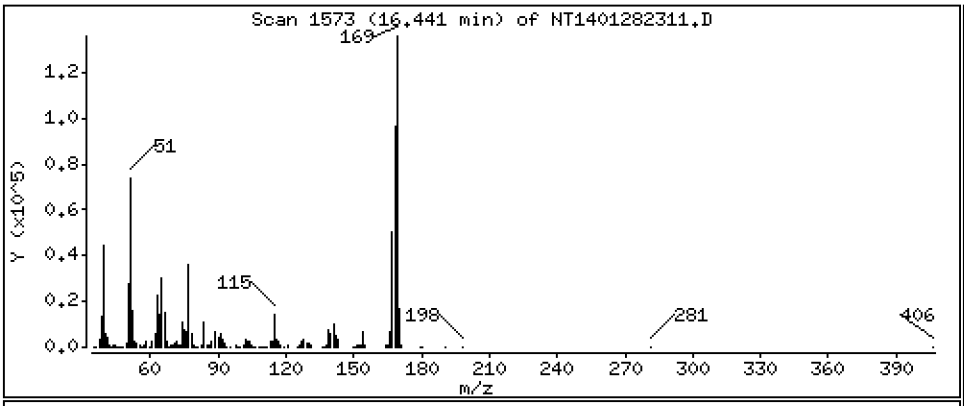
Operator: JGR

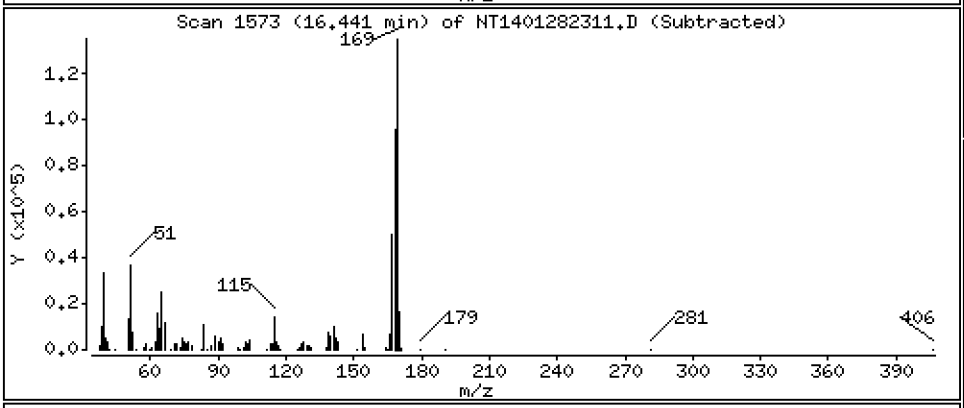
Column phase: ZB-5msi

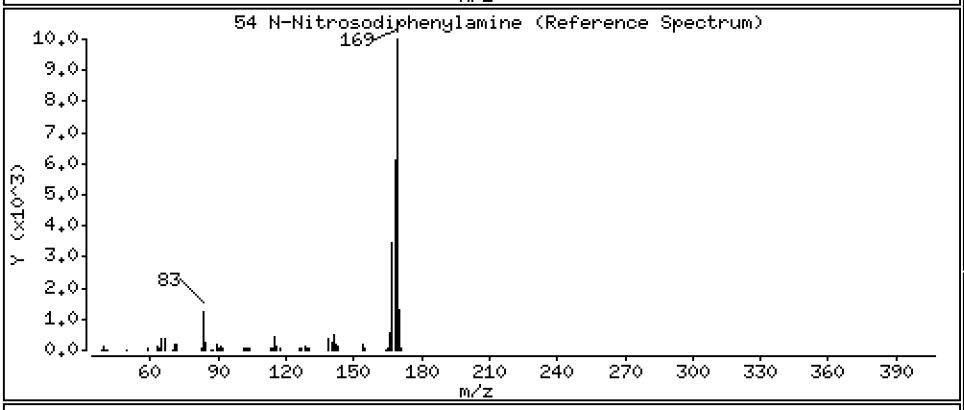
Column diameter: 0.25

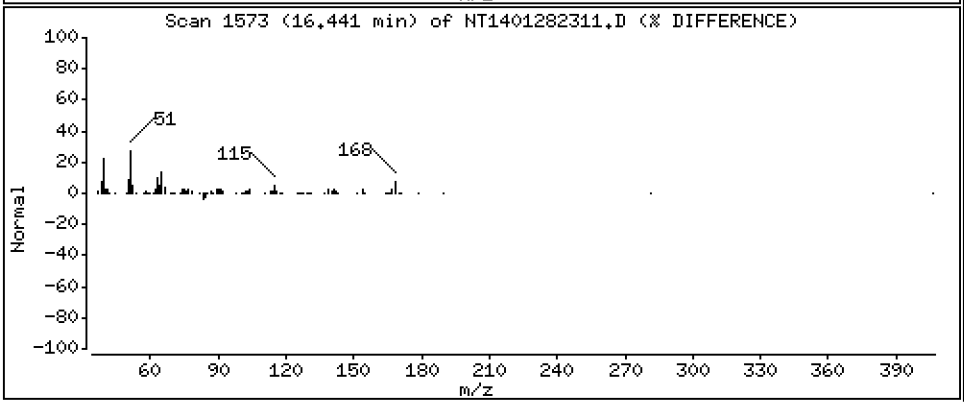
54 N-Nitrosodiphenylamine

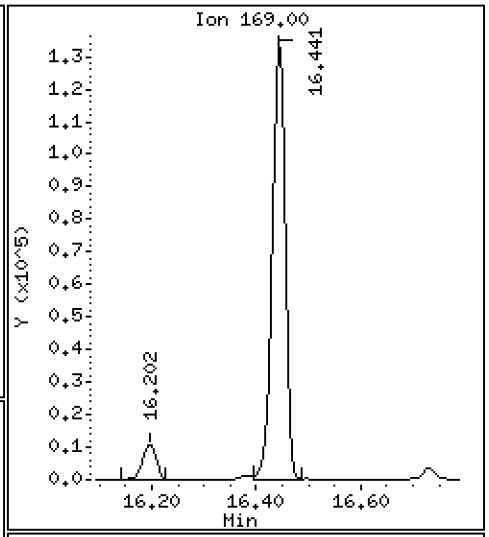
Concentration: 4.528 ug/mL

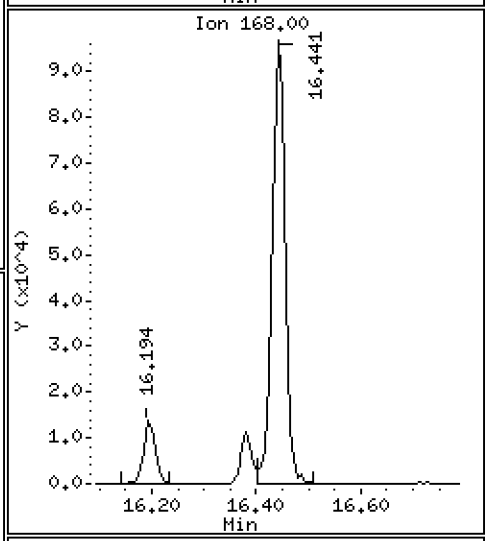


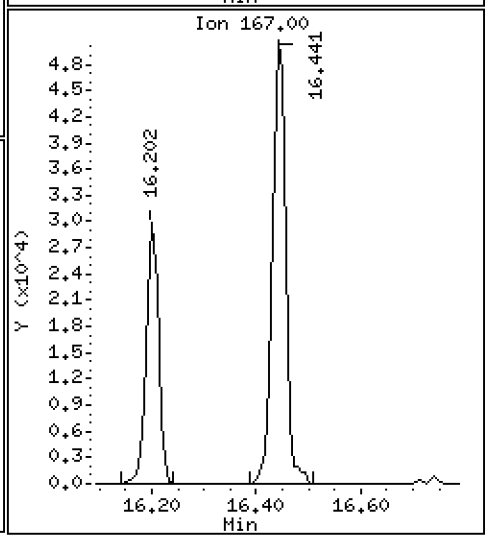












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

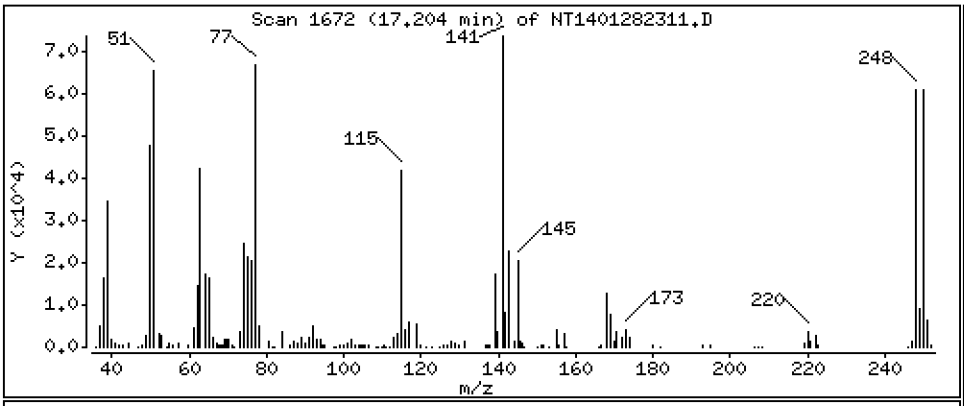
Operator: JGR

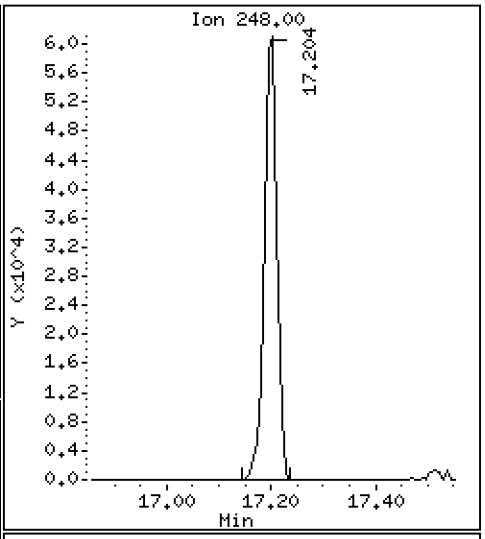
Column phase: ZB-5msi

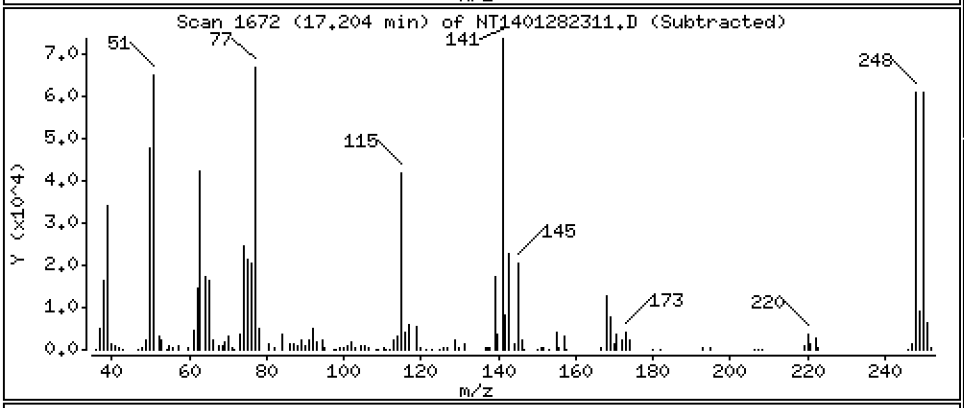
Column diameter: 0.25

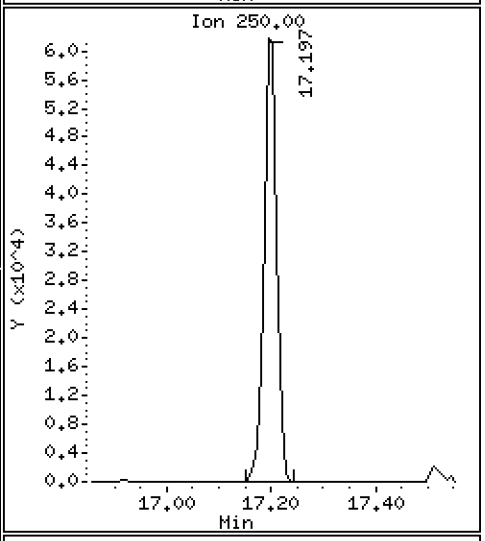
56 4-Bromophenyl-phenylether

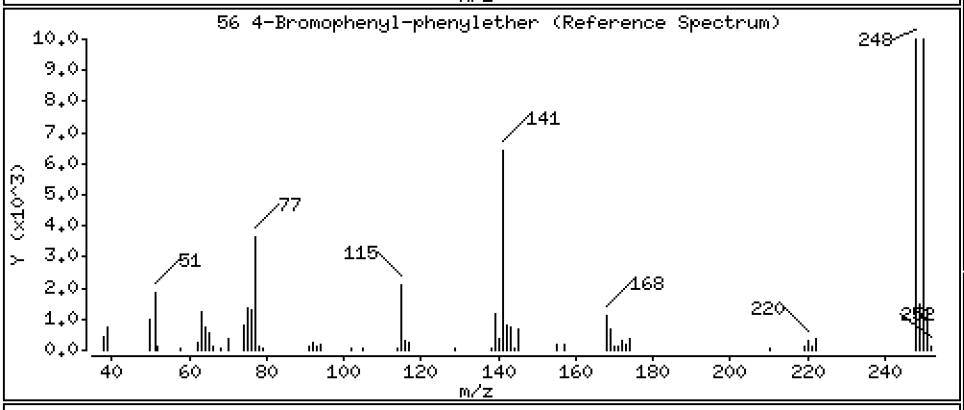
Concentration: 4.577 ug/mL

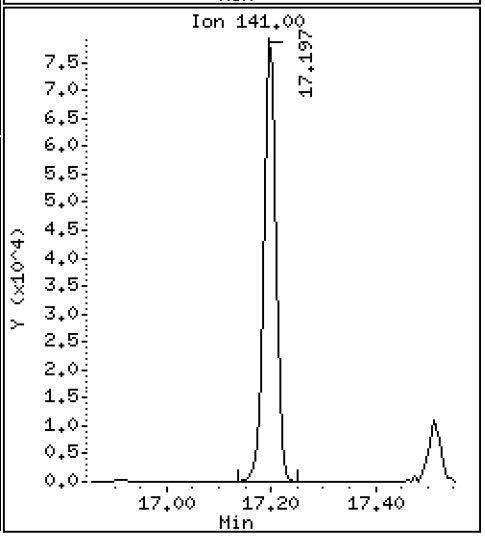


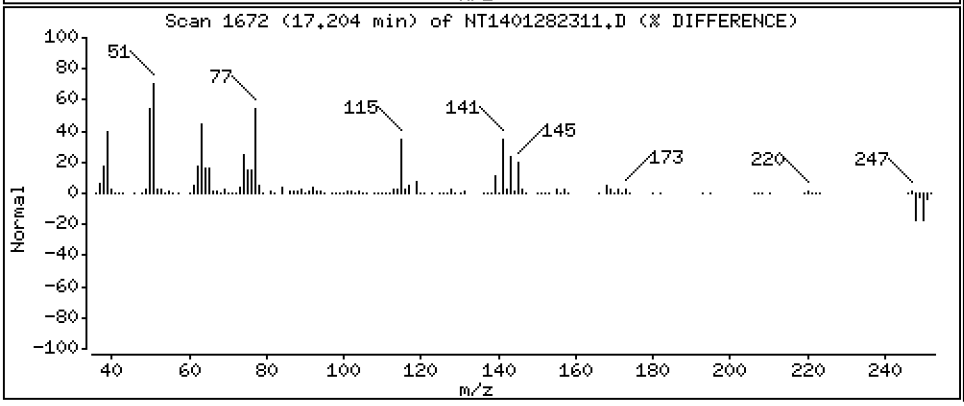












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

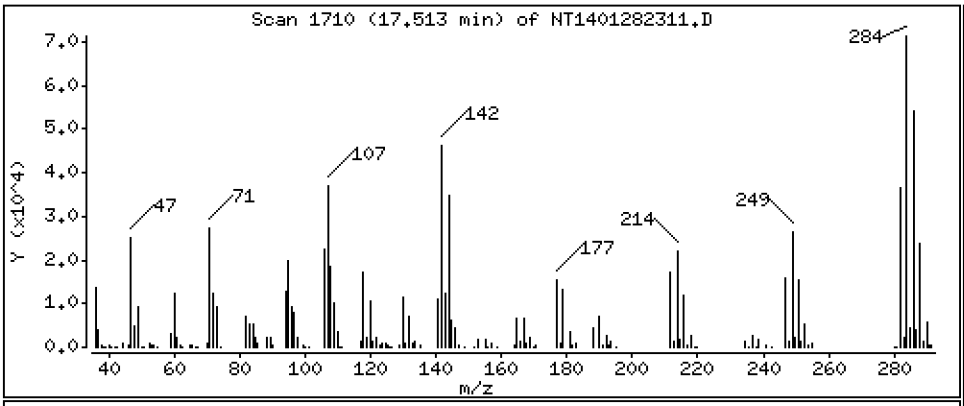
Operator: JGR

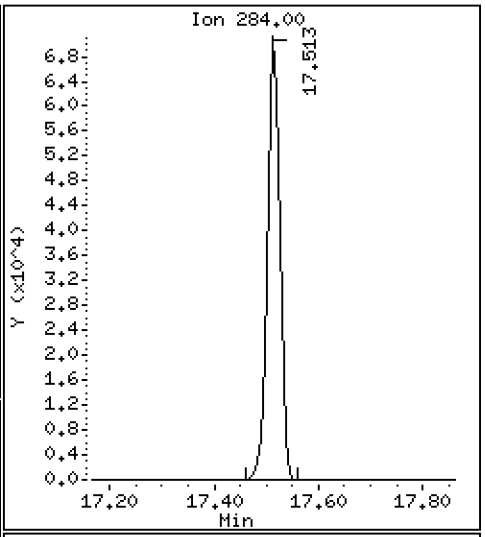
Column phase: ZB-5msi

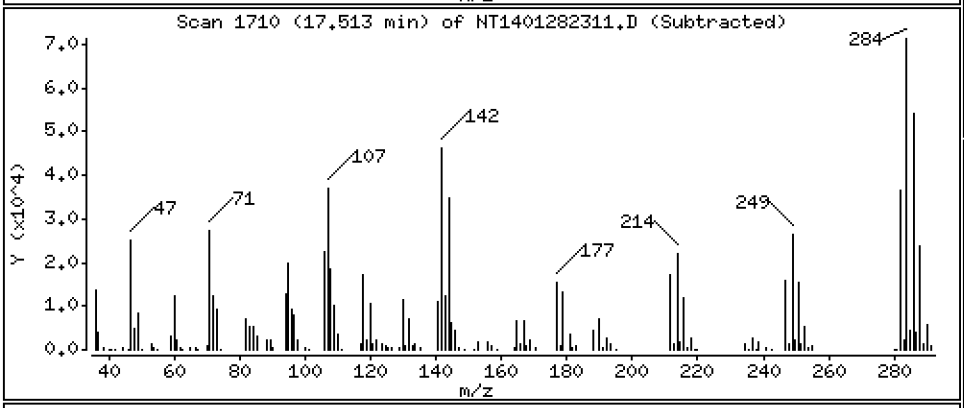
Column diameter: 0.25

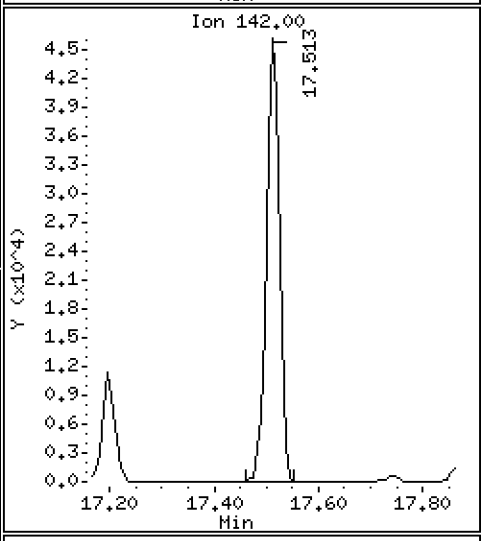
57 Hexachlorobenzene

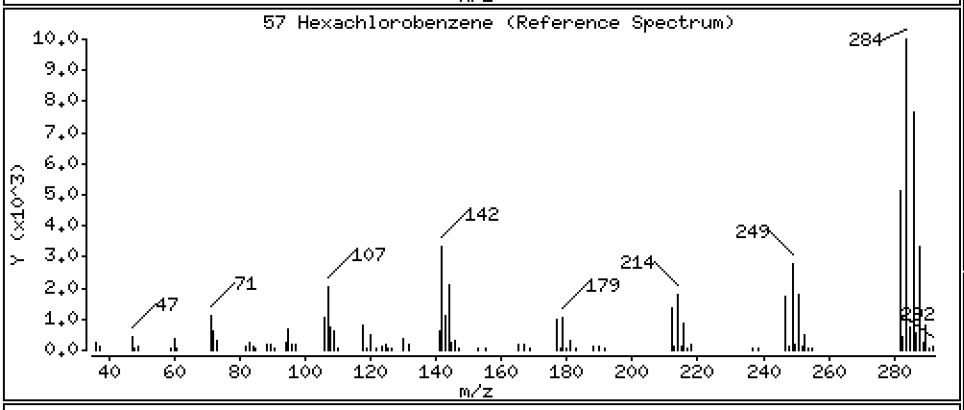
Concentration: 4.453 ug/mL

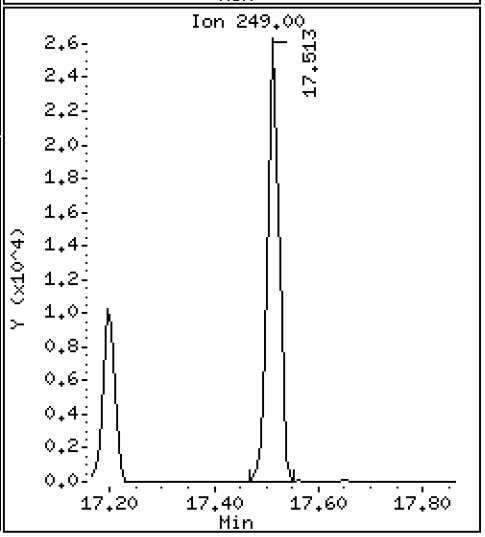


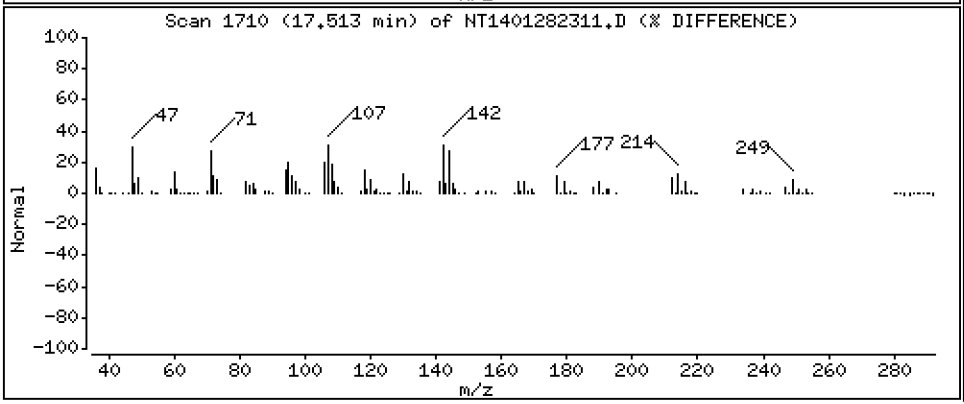












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

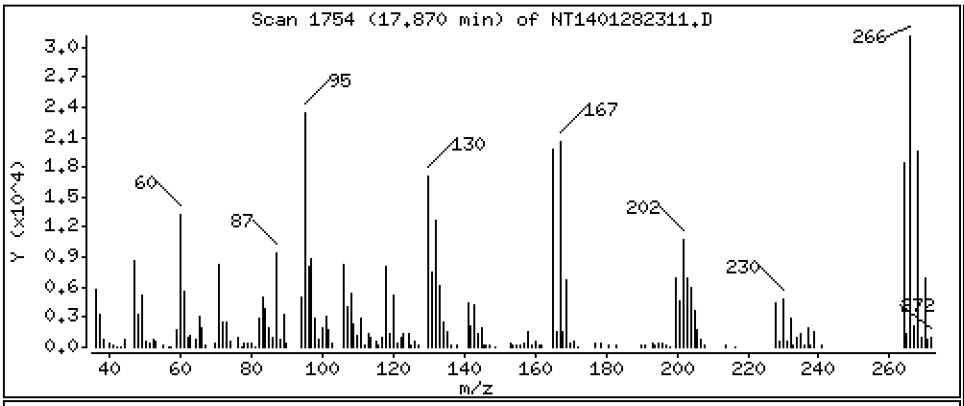
Operator: JGR

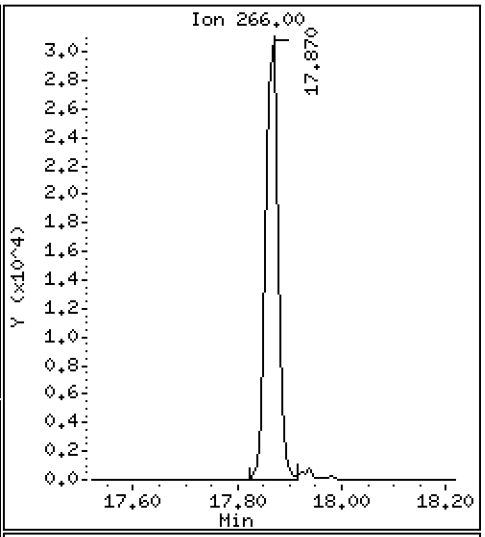
Column phase: ZB-5msi

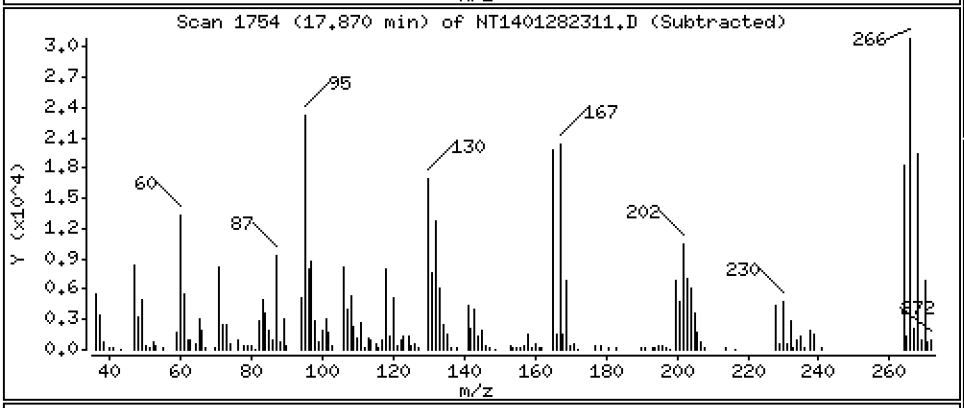
Column diameter: 0.25

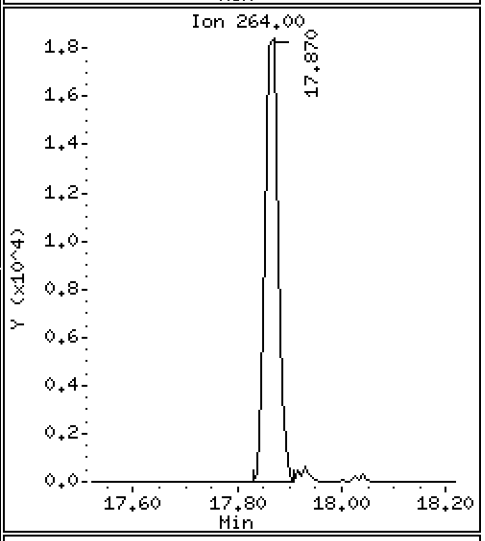
58 Pentachlorophenol

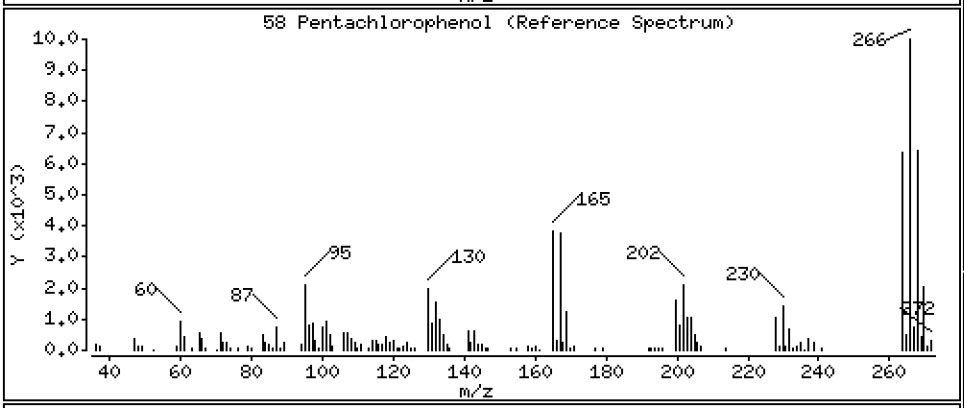
Concentration: 3.439 ug/mL

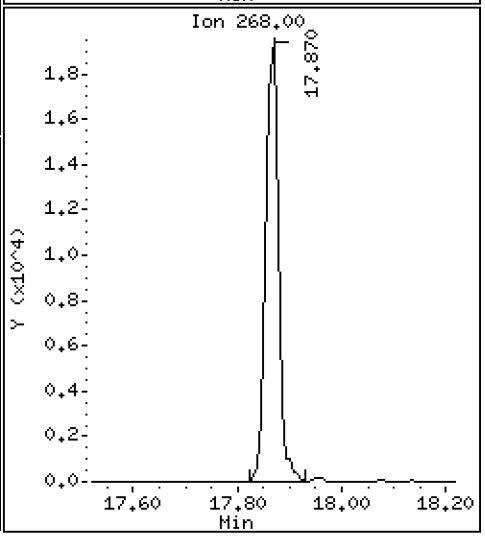


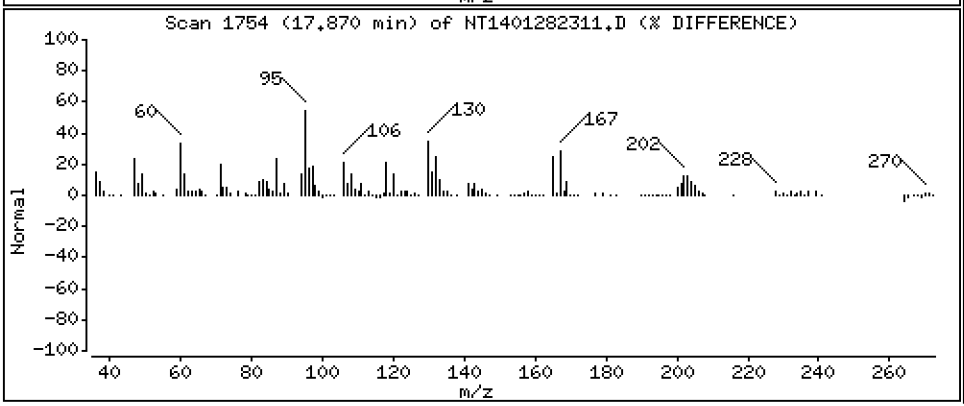












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

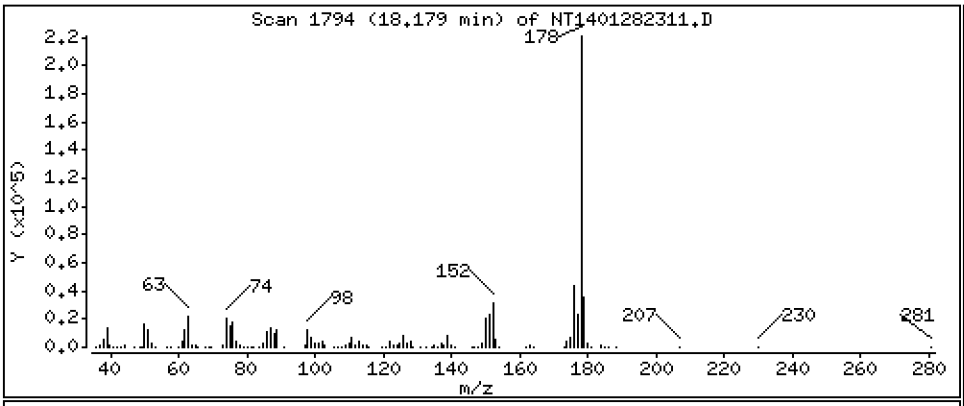
Operator: JGR

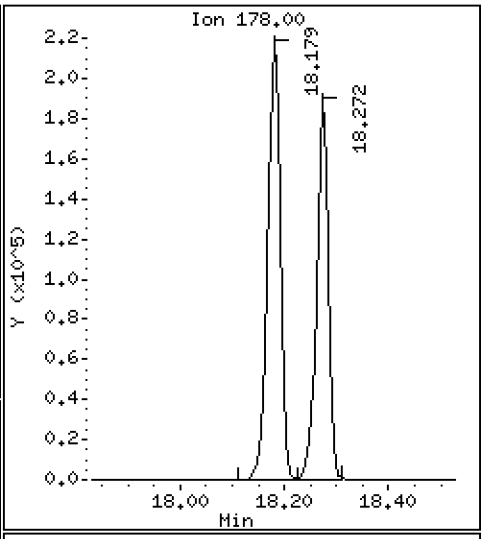
Column phase: ZB-5msi

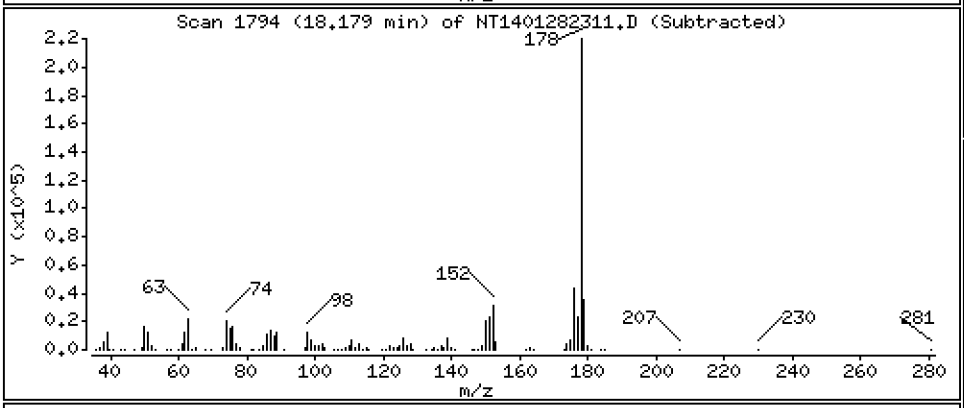
Column diameter: 0.25

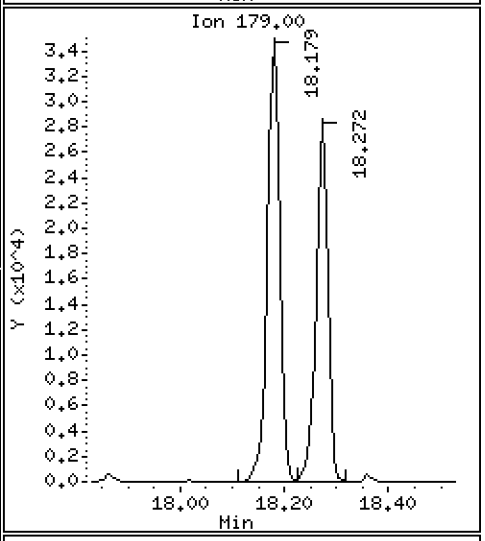
60 Phenanthrene

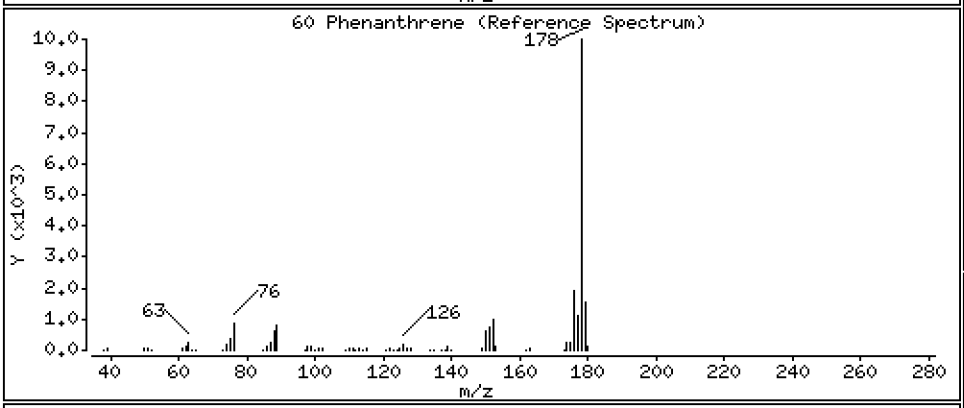
Concentration: 4.554 ug/mL

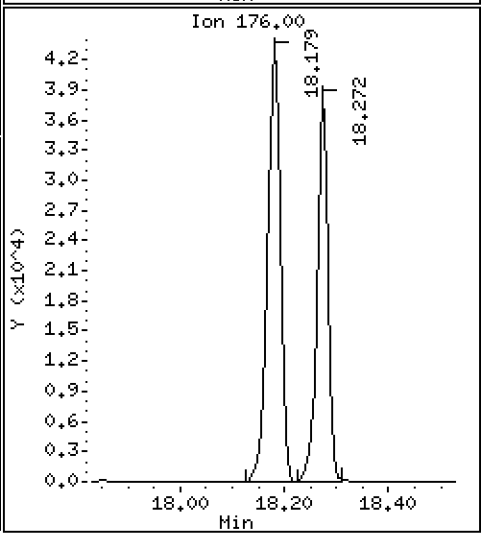


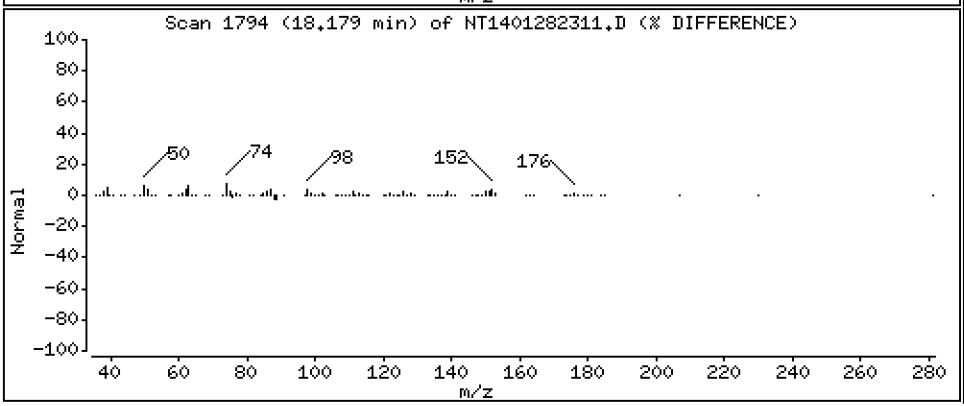












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

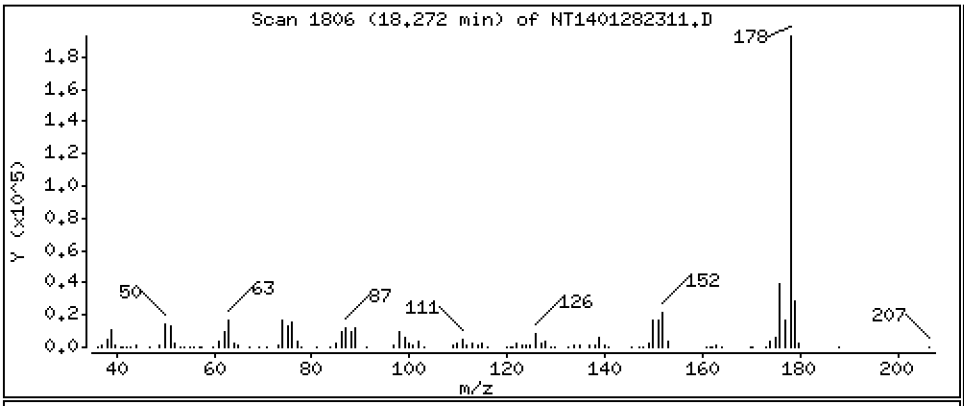
Operator: JGR

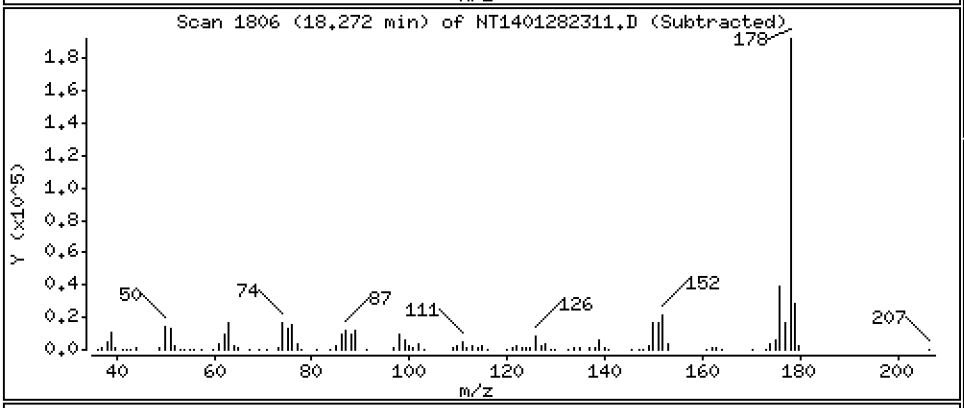
Column phase: ZB-5msi

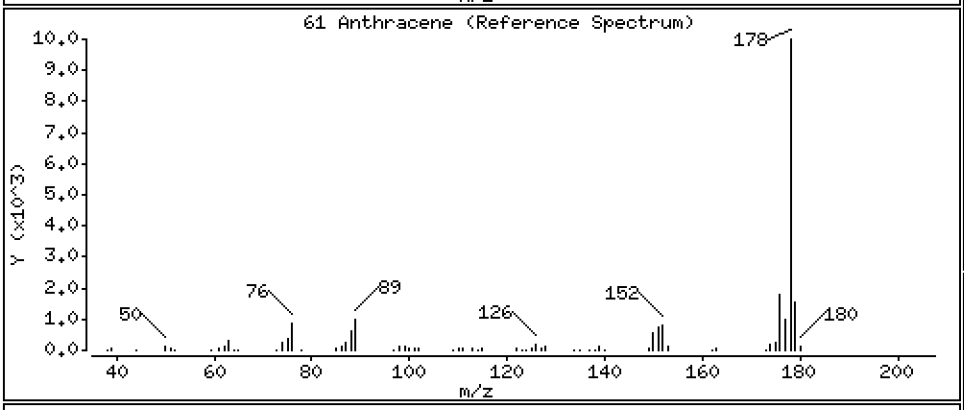
Column diameter: 0.25

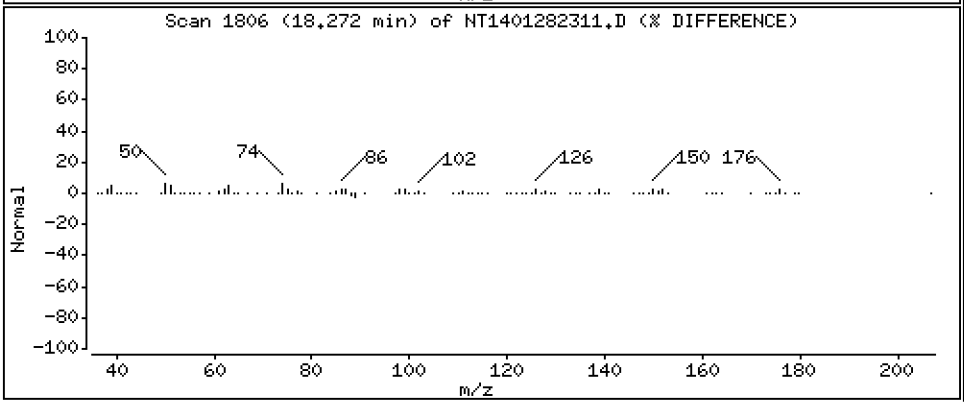
61 Anthracene

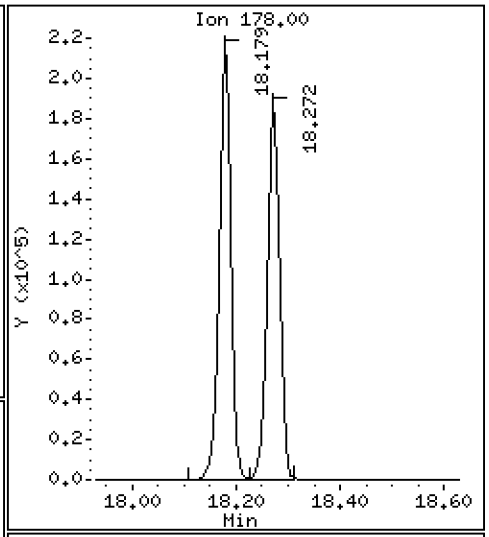
Concentration: 4.062 ug/mL

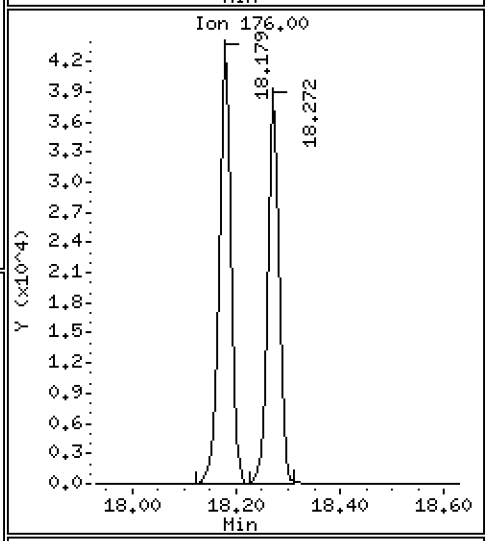


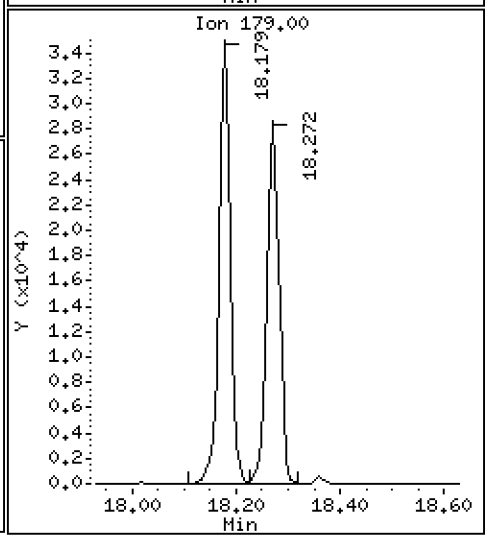












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

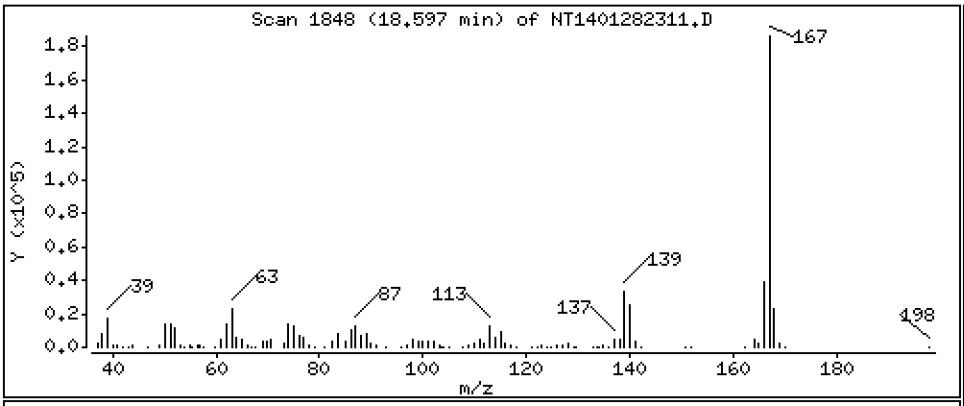
Operator: JGR

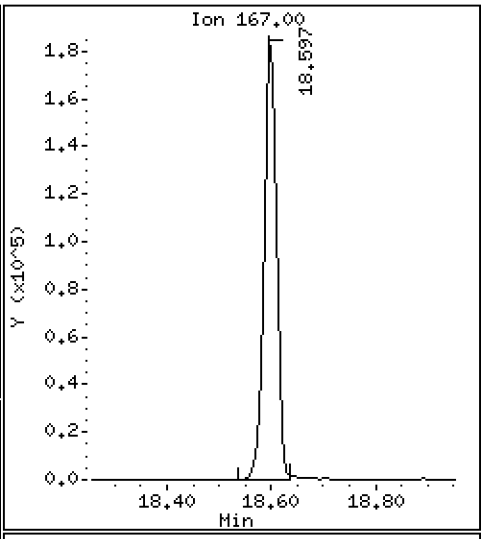
Column phase: ZB-5msi

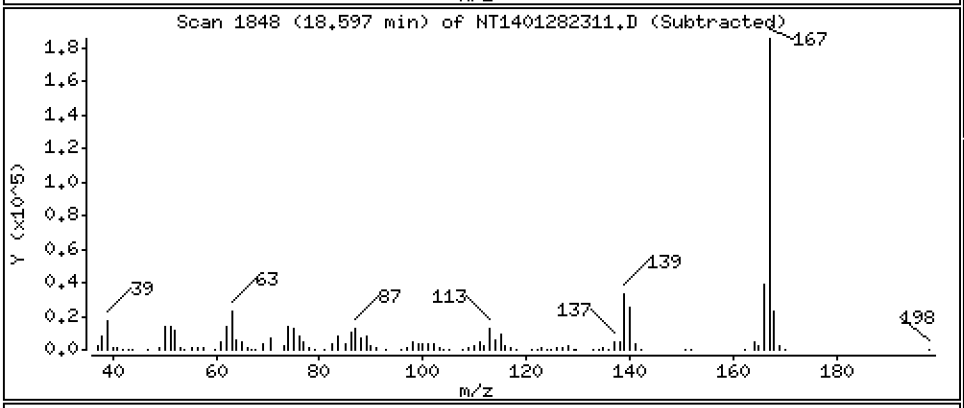
Column diameter: 0.25

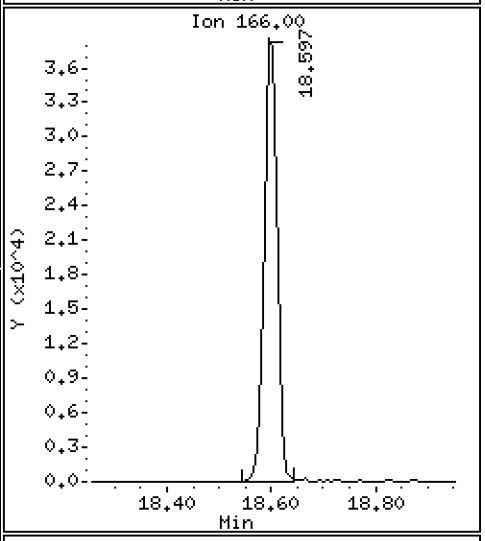
62 Carbazole

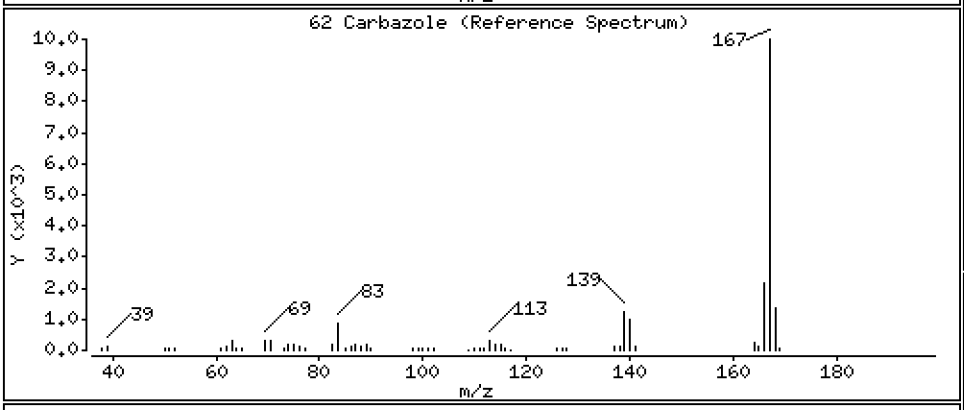
Concentration: 4.384 ug/mL

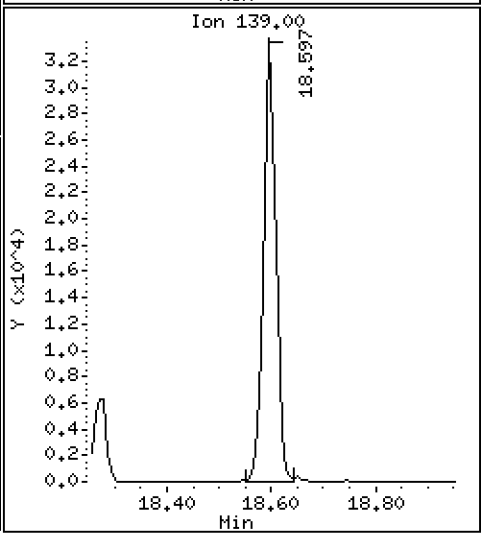


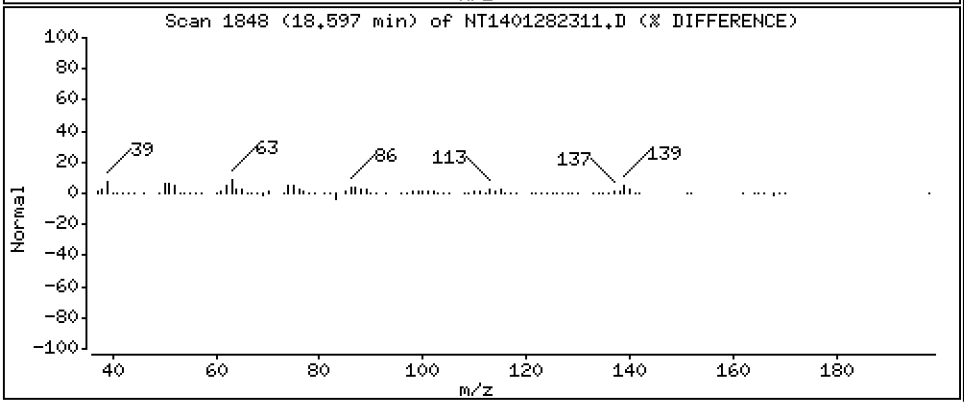












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

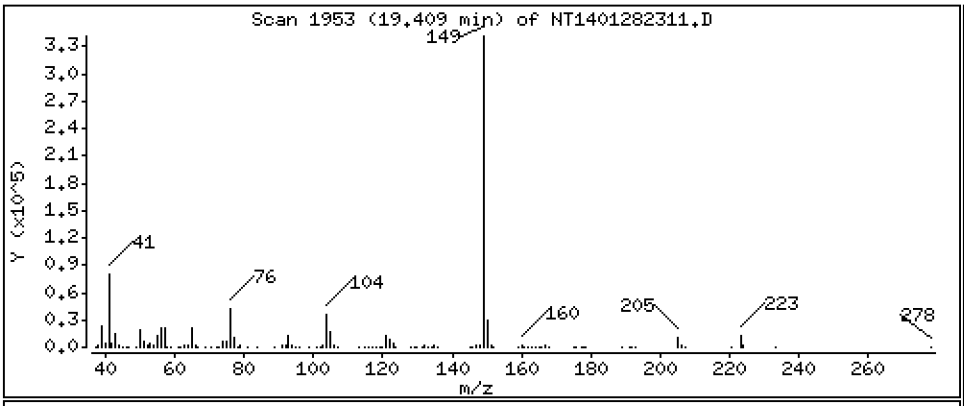
Operator: JGR

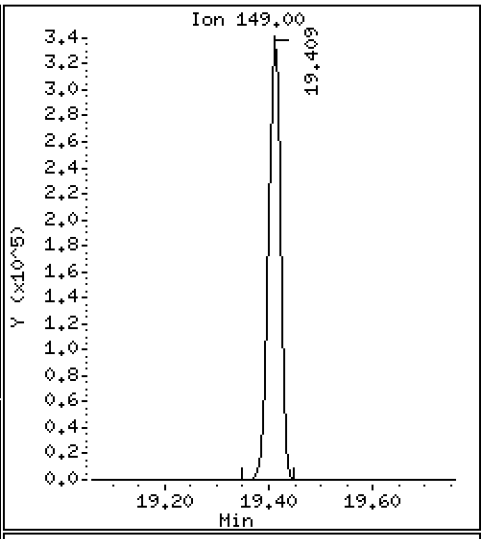
Column phase: ZB-5msi

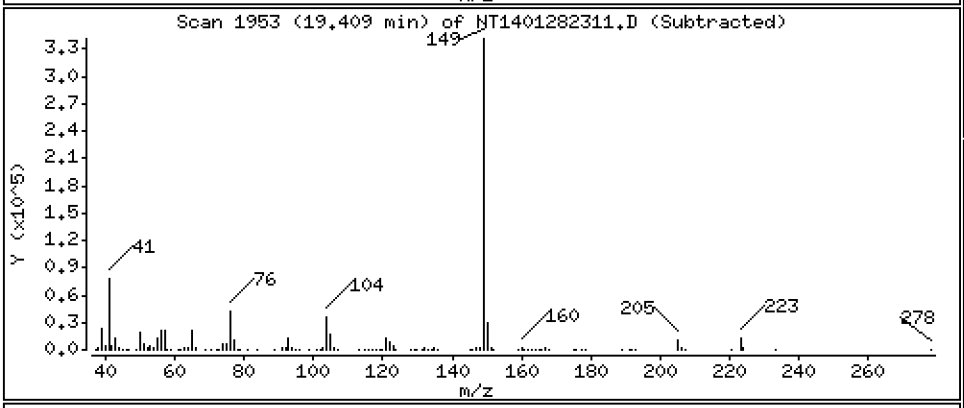
Column diameter: 0.25

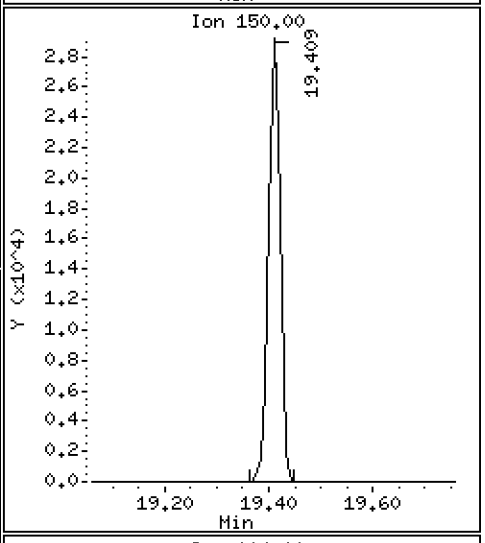
63 Di-n-butylphthalate

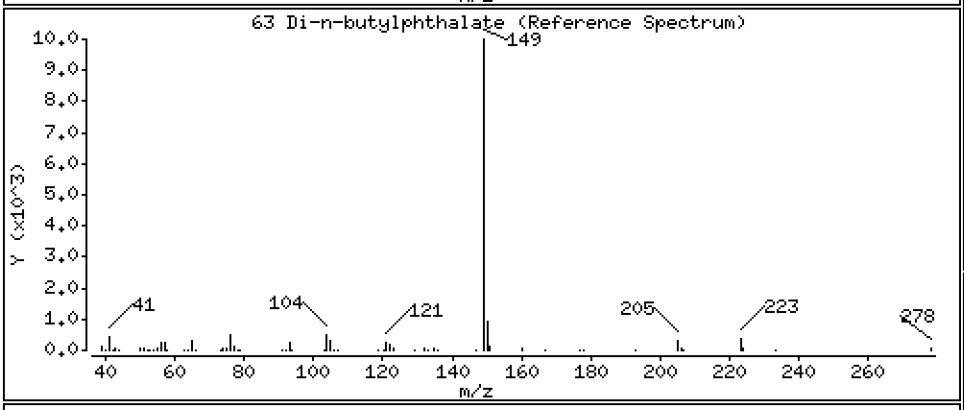
Concentration: 4.948 ug/mL

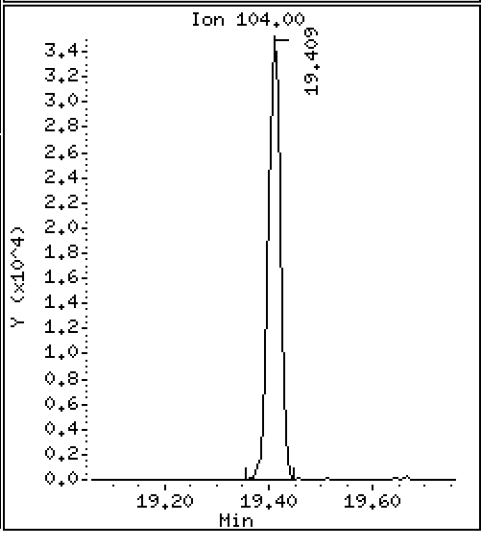


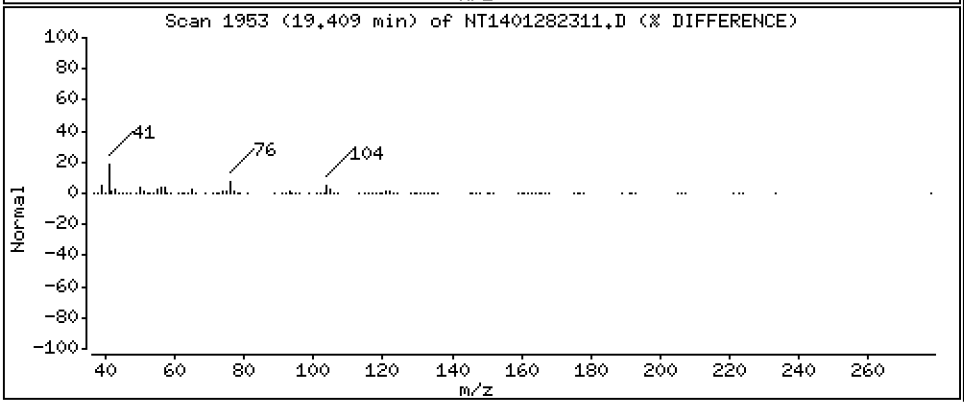












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

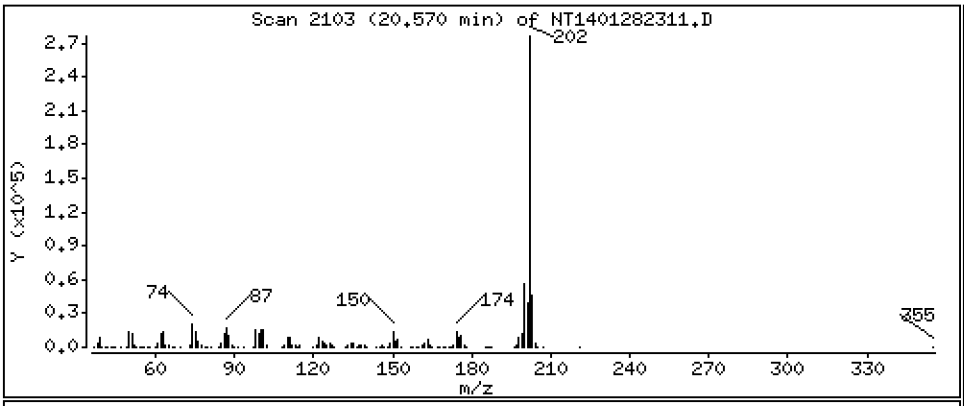
Operator: JGR

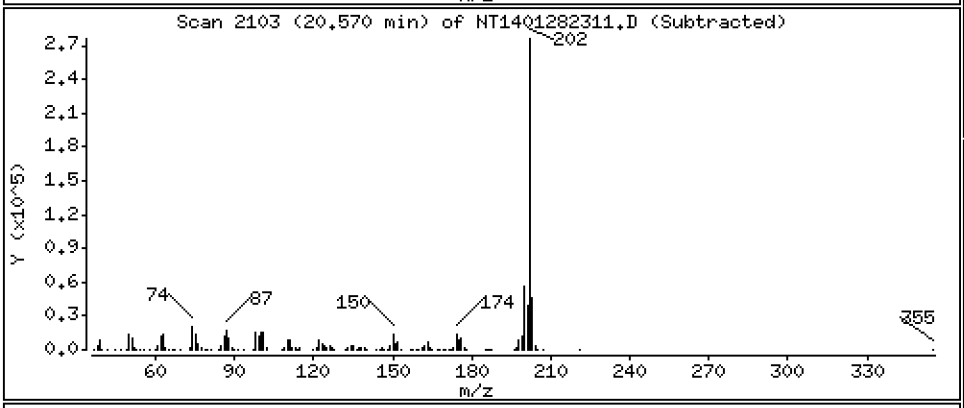
Column phase: ZB-5msi

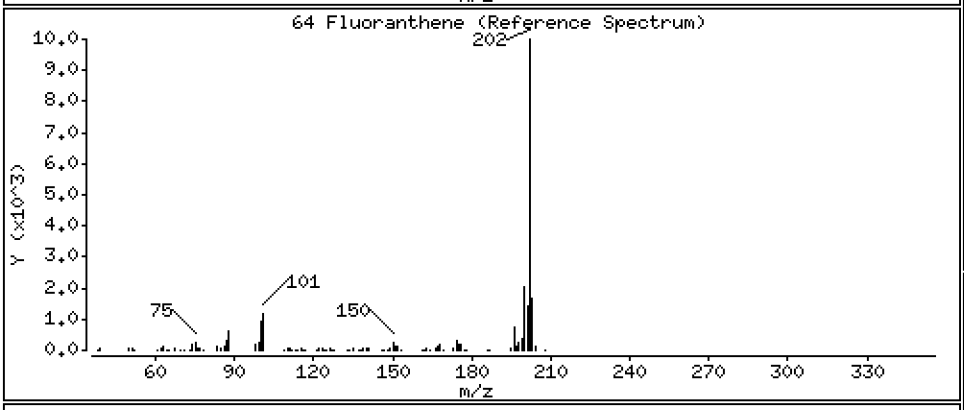
Column diameter: 0.25

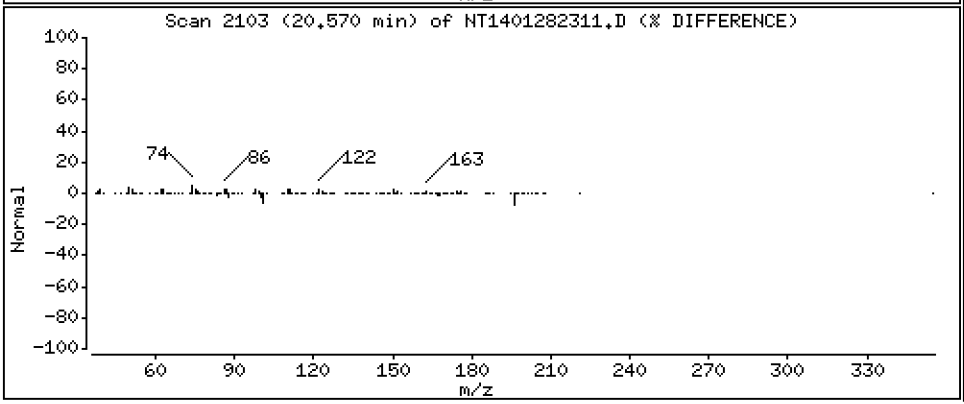
64 Fluoranthene

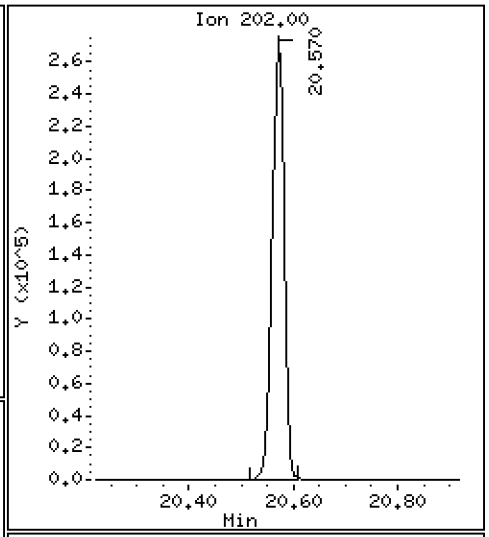
Concentration: 4.755 ug/mL

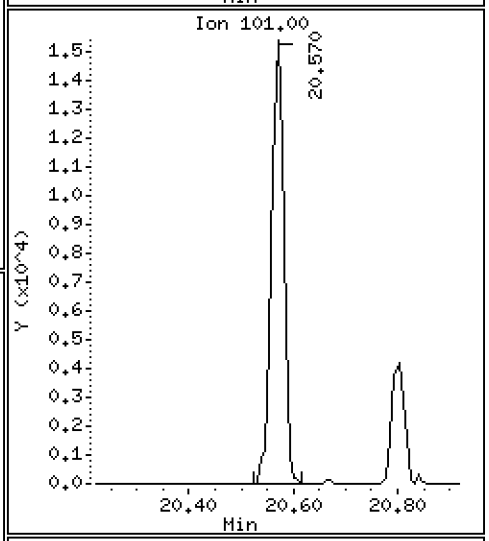


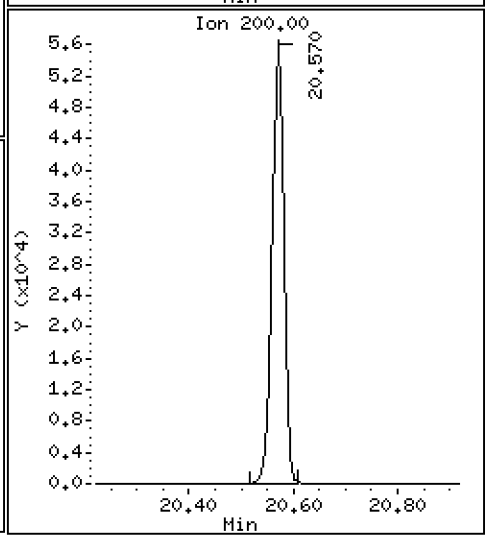












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

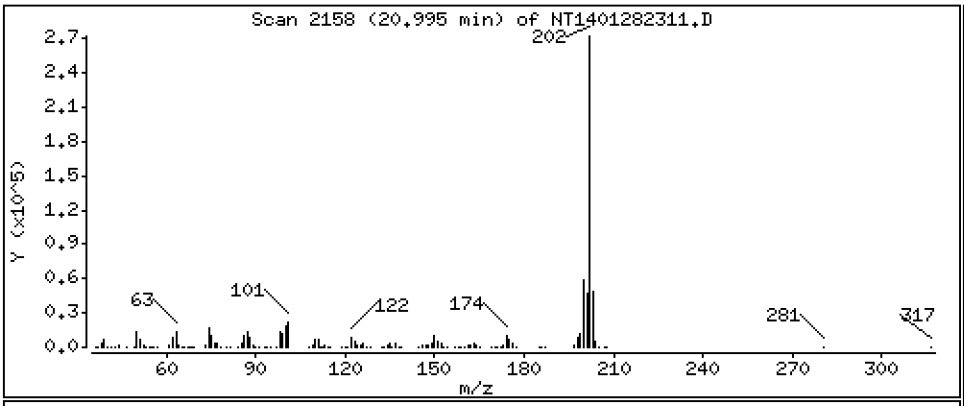
Operator: JGR

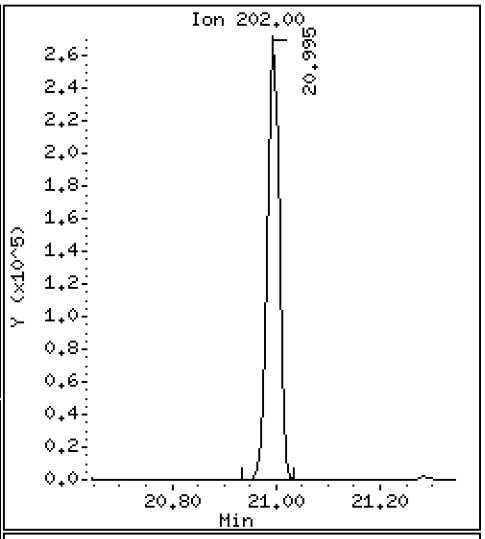
Column phase: ZB-5msi

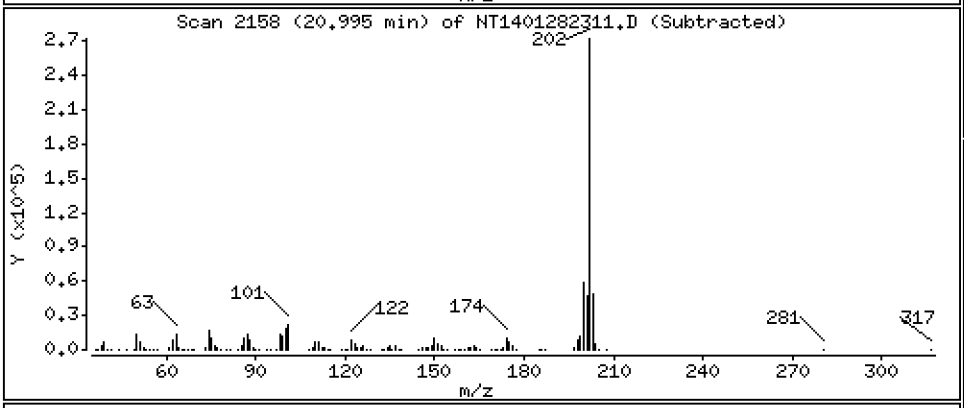
Column diameter: 0.25

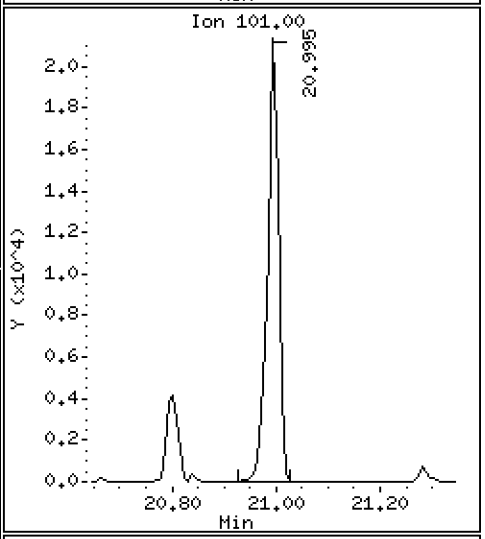
65 Pyrene

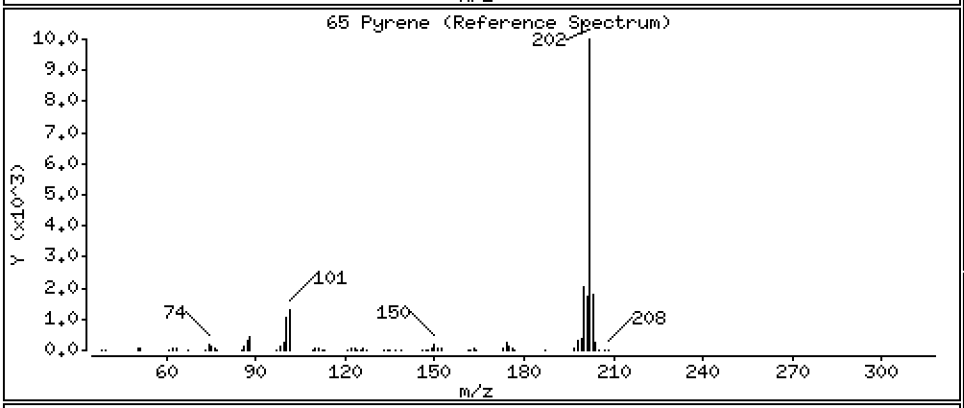
Concentration: 4.702 ug/mL

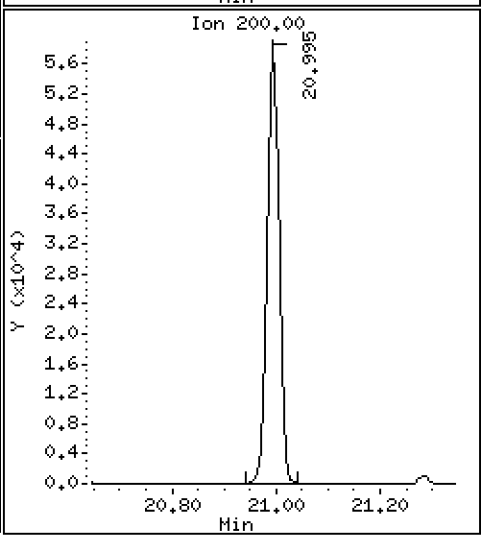


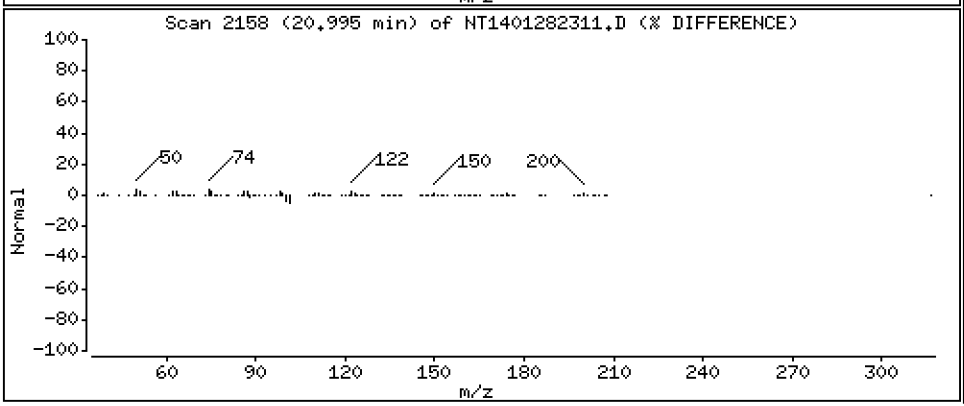












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

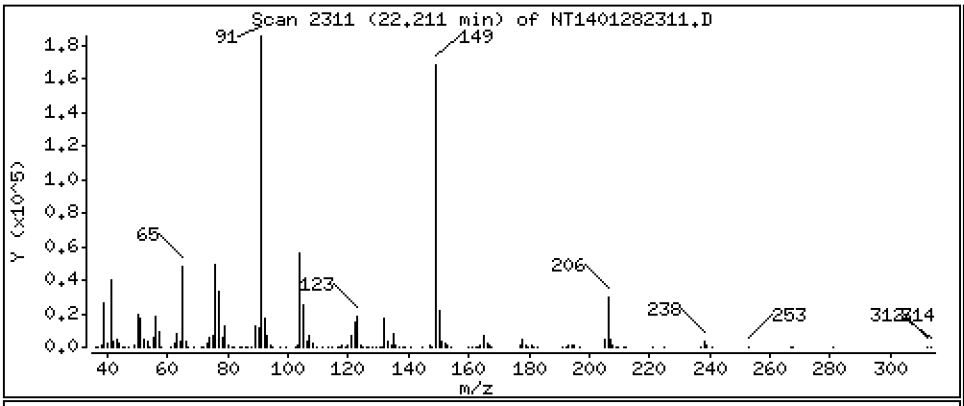
Operator: JGR

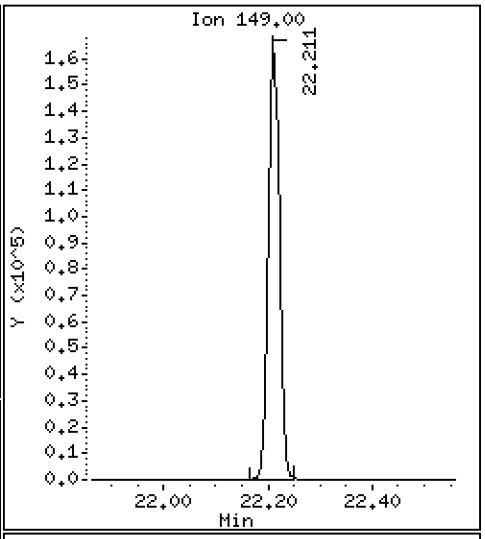
Column phase: ZB-5msi

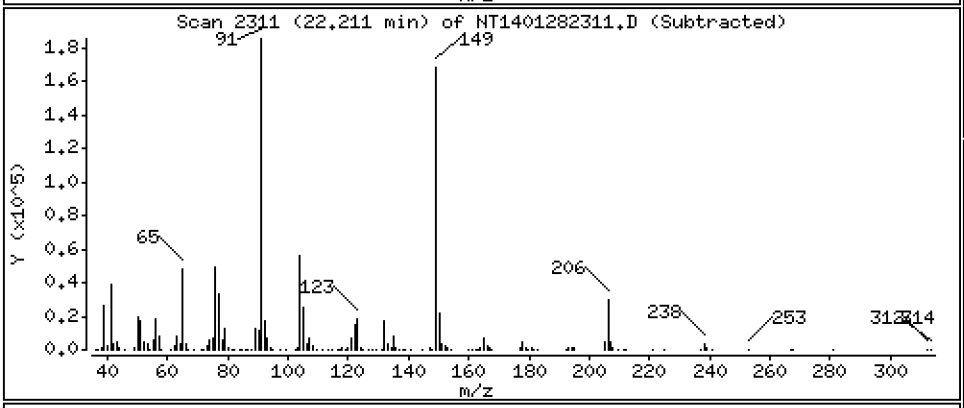
Column diameter: 0.25

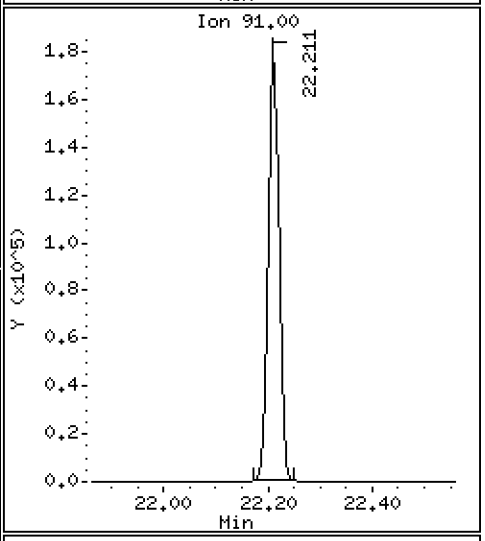
67 Butylbenzylphthalate

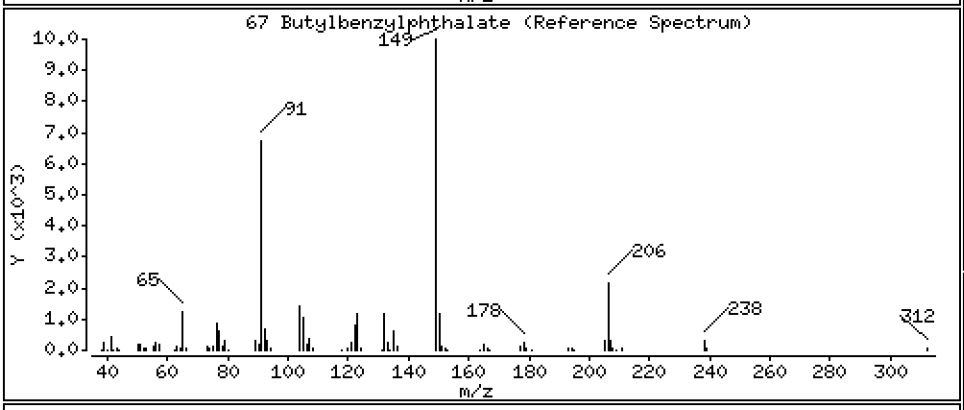
Concentration: 4.844 ug/mL

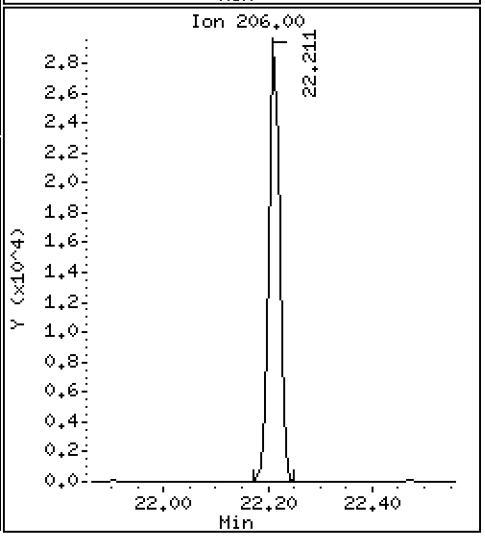


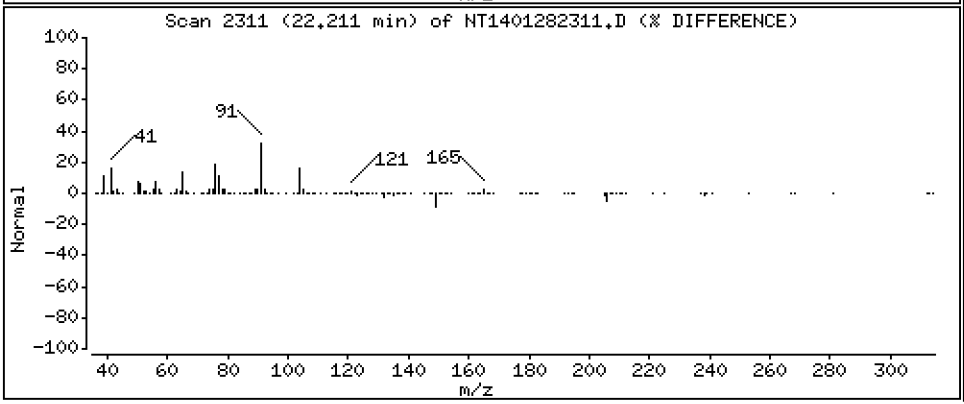












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

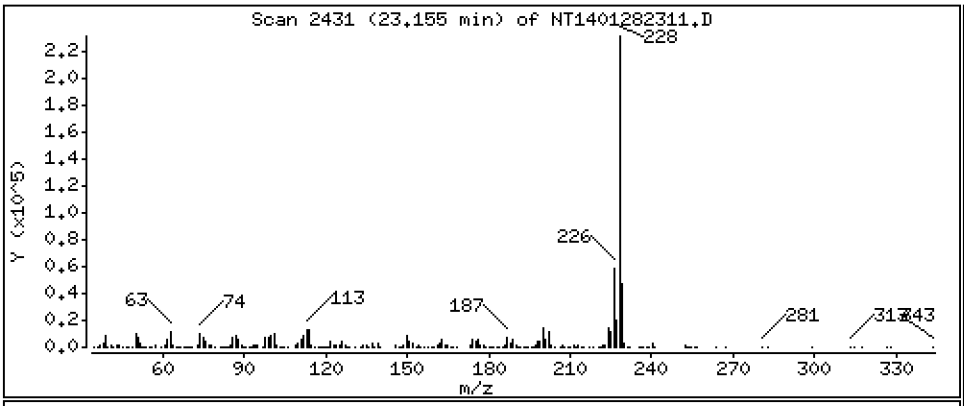
Operator: JGR

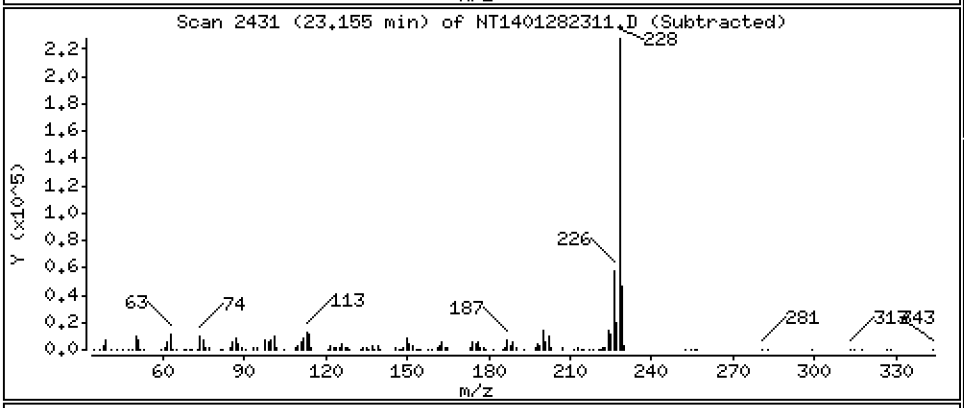
Column phase: ZB-5msi

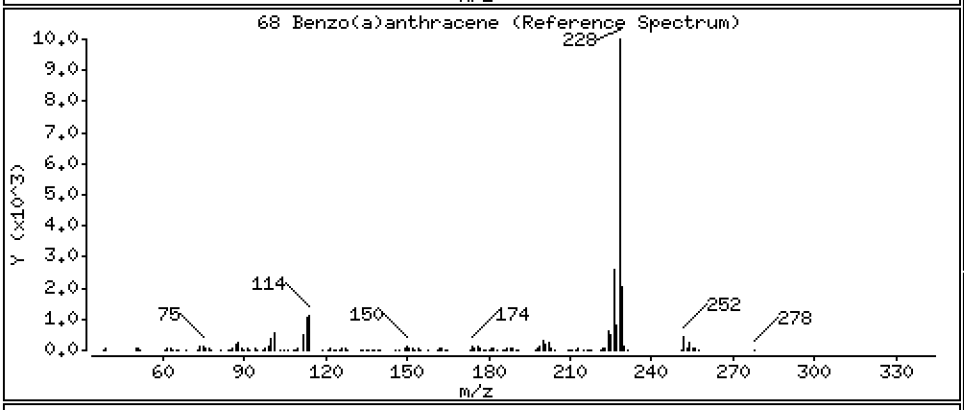
Column diameter: 0.25

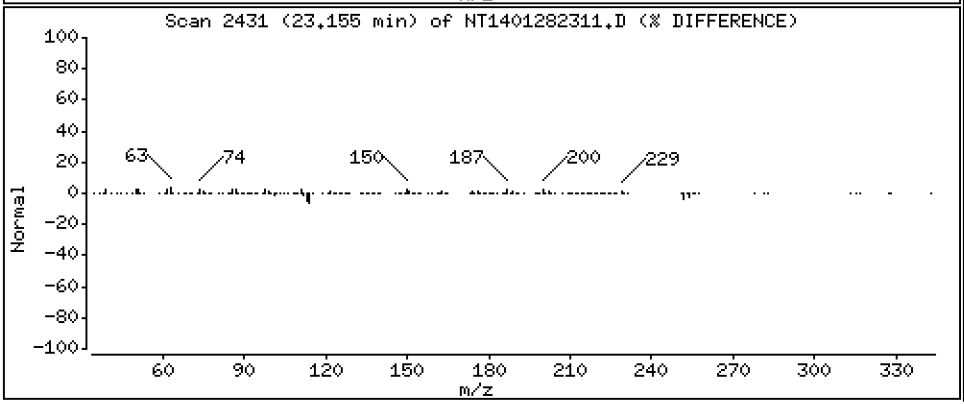
68 Benzo(a)anthracene

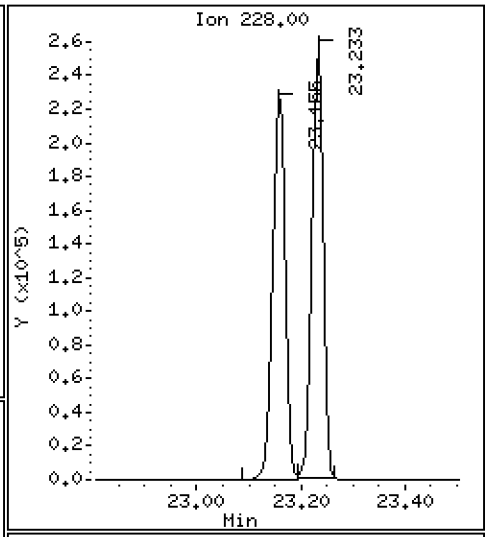
Concentration: 4.571 ug/mL

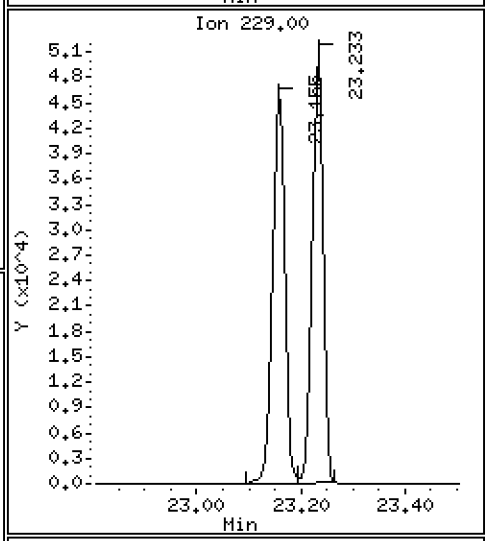


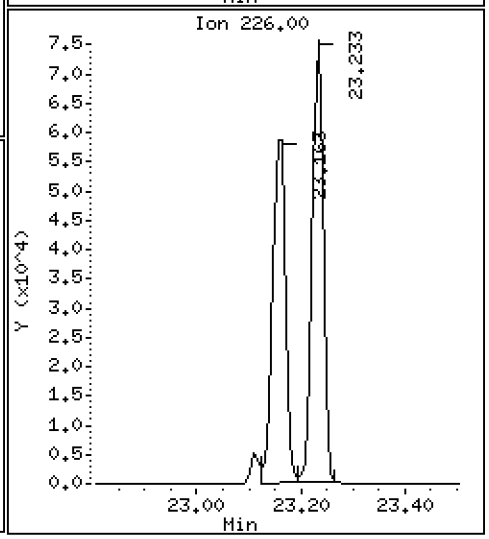












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

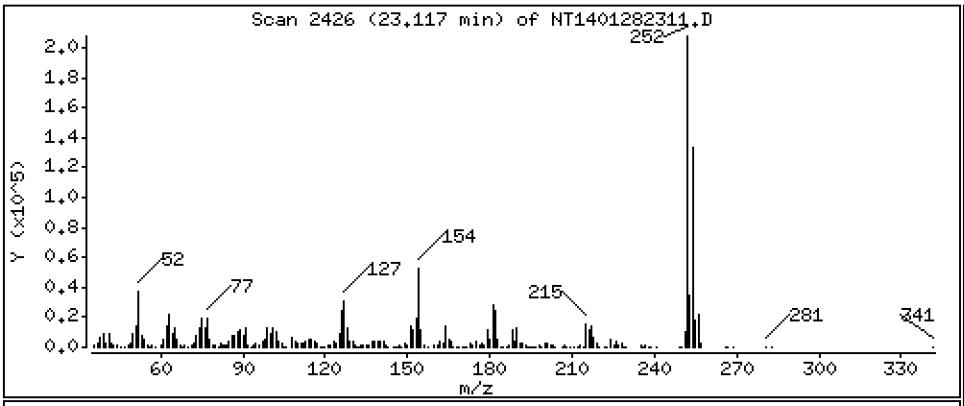
Operator: JGR

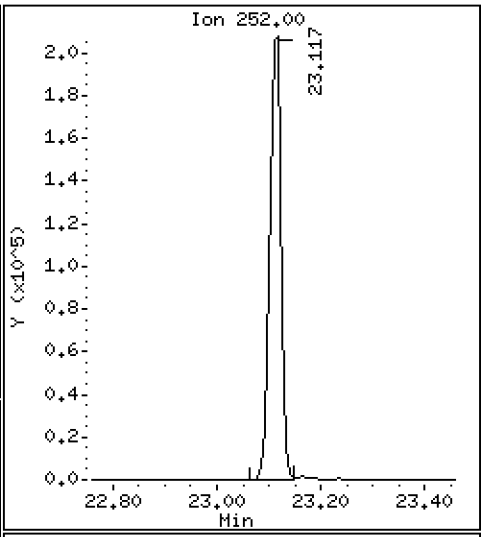
Column phase: ZB-5msi

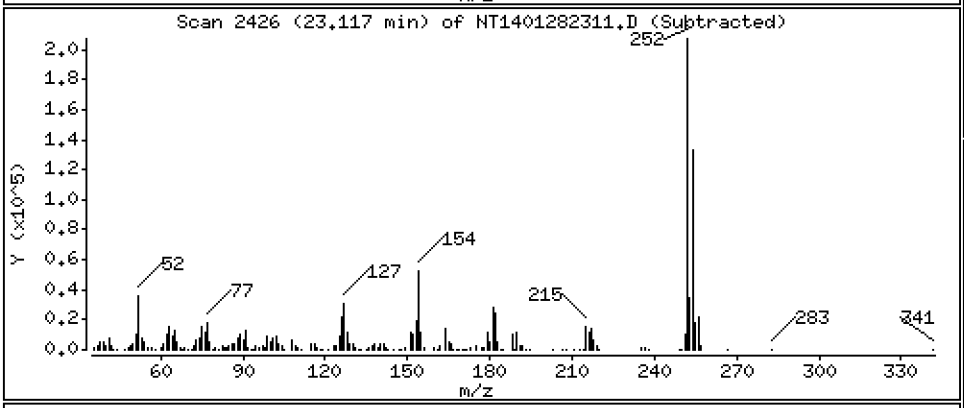
Column diameter: 0.25

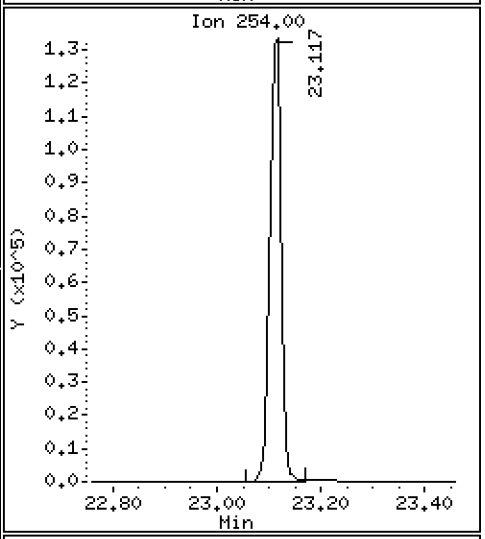
70 3,3'-Dichlorobenzidine

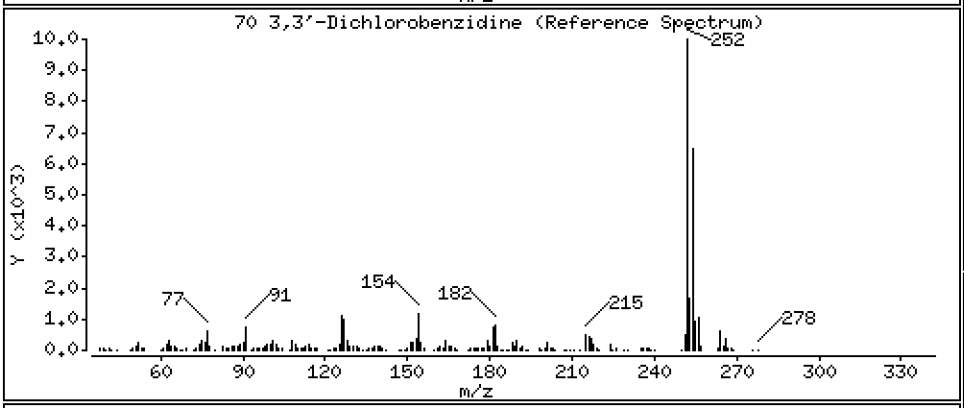
Concentration: 8.226 ug/mL

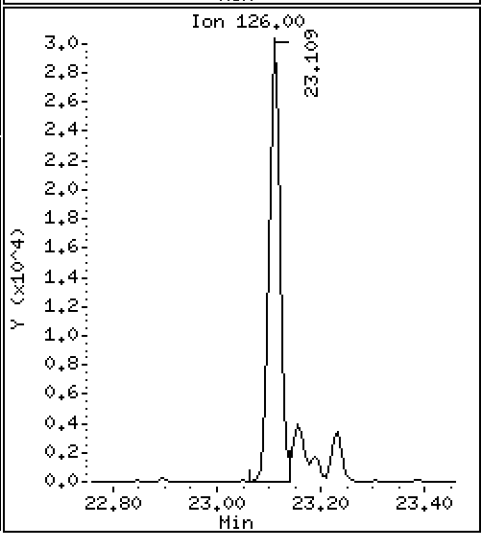


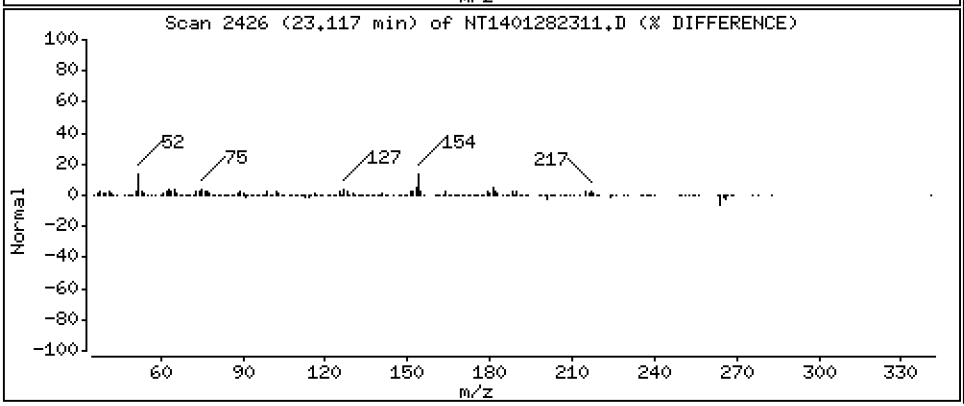












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

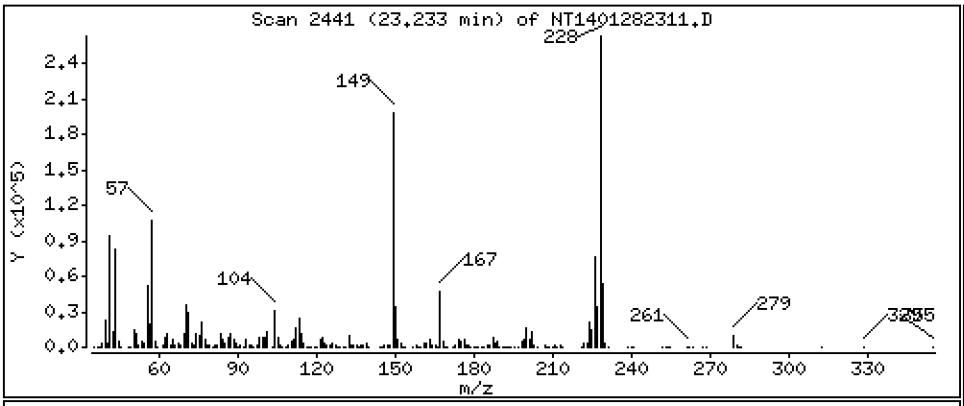
Operator: JGR

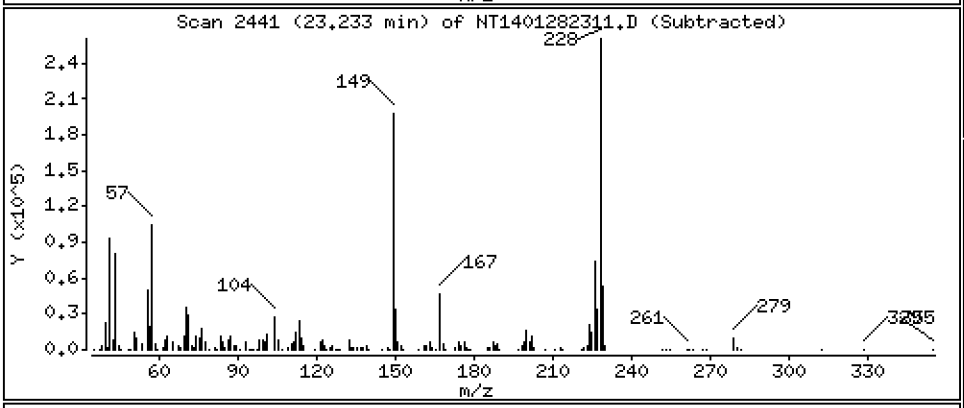
Column phase: ZB-5msi

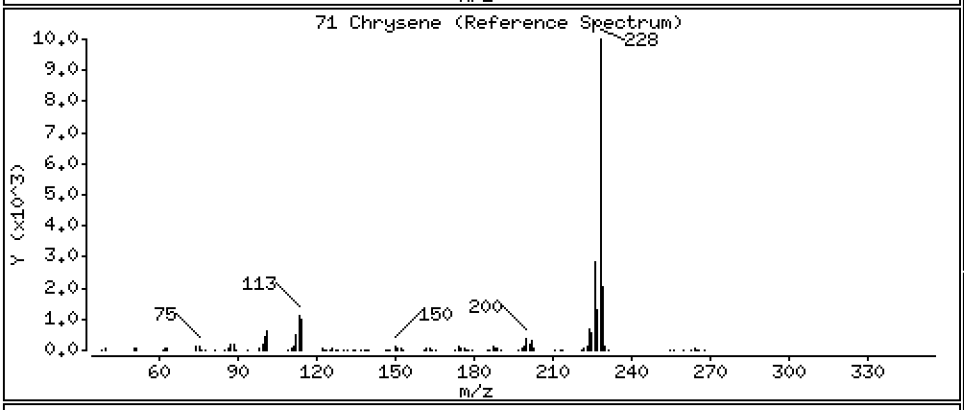
Column diameter: 0.25

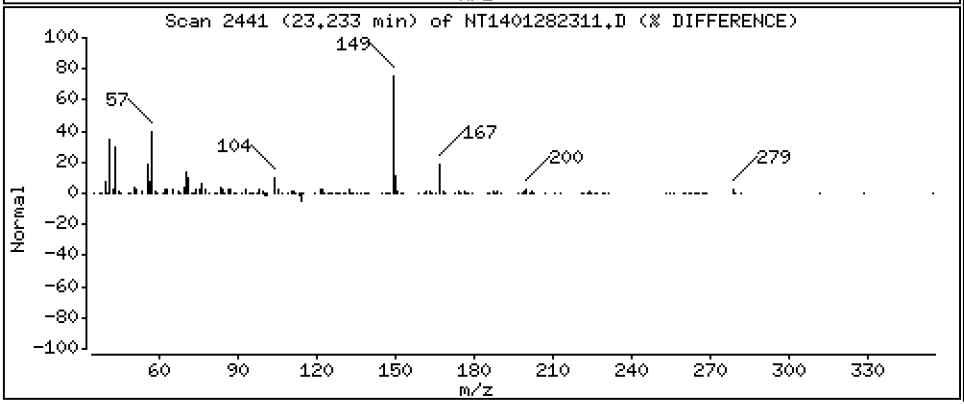
71 Chrysene

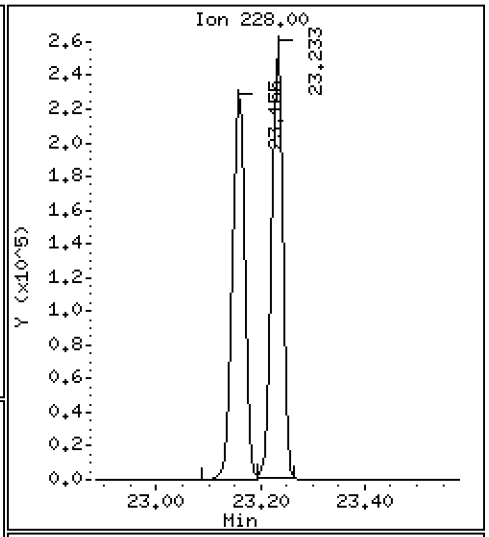
Concentration: 4.466 ug/mL

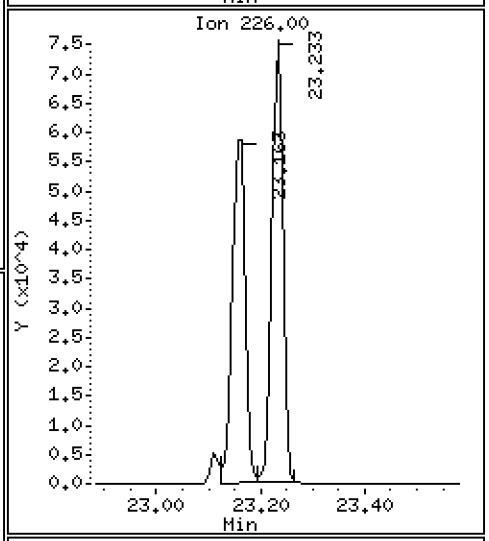


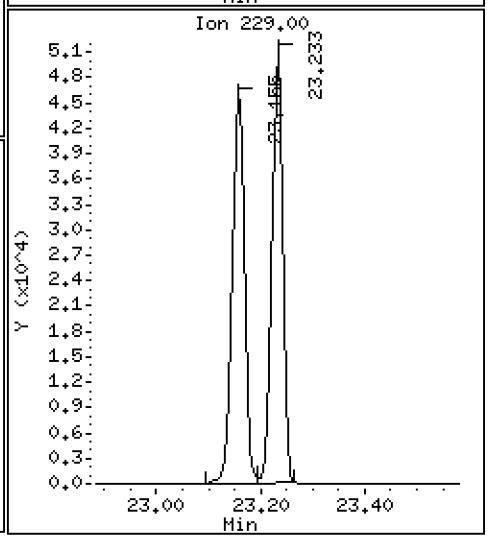












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

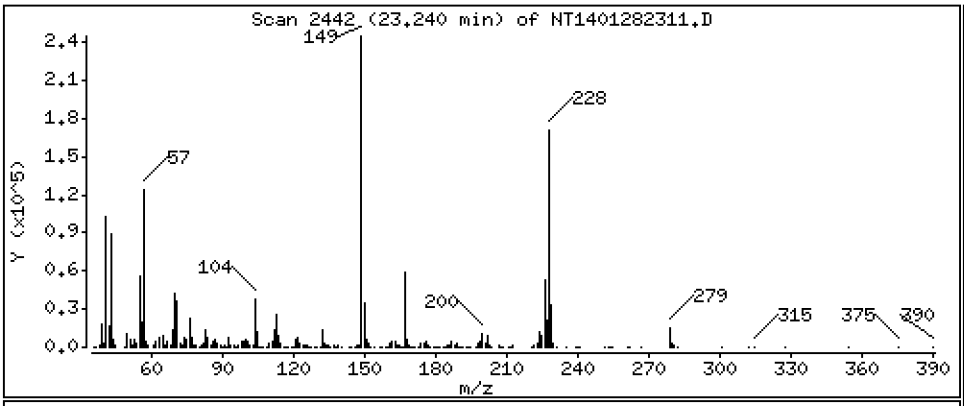
Operator: JGR

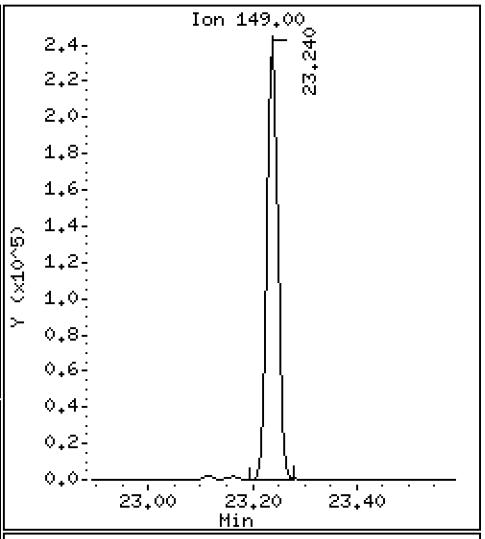
Column phase: ZB-5msi

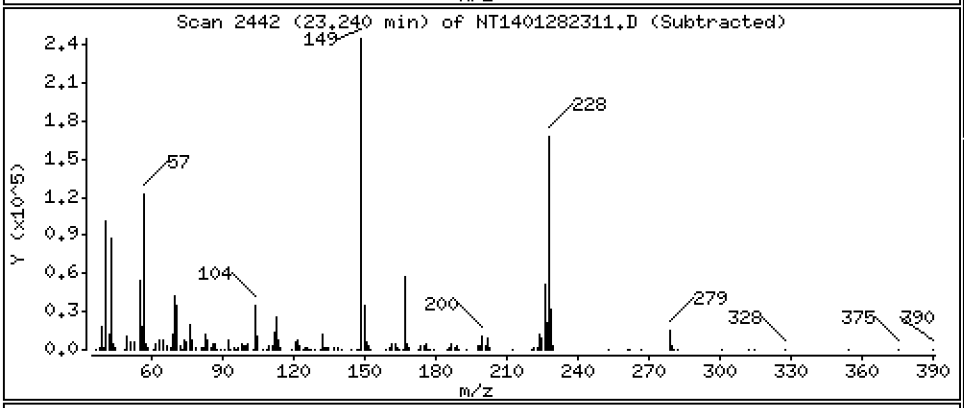
Column diameter: 0.25

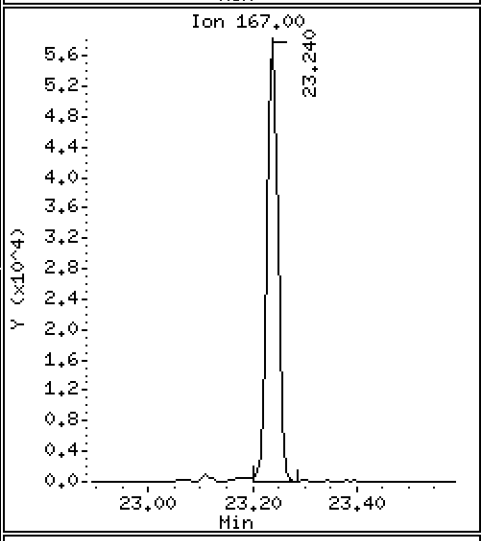
72 bis(2-Ethylhexyl)phthalate

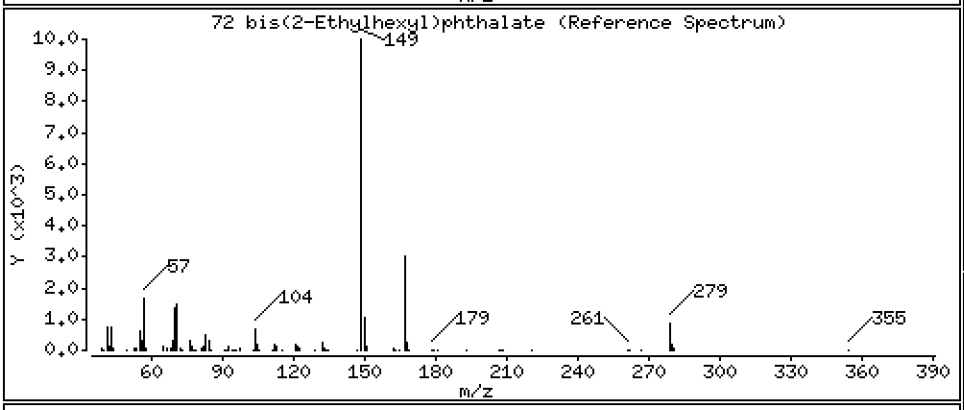
Concentration: 4.823 ug/mL

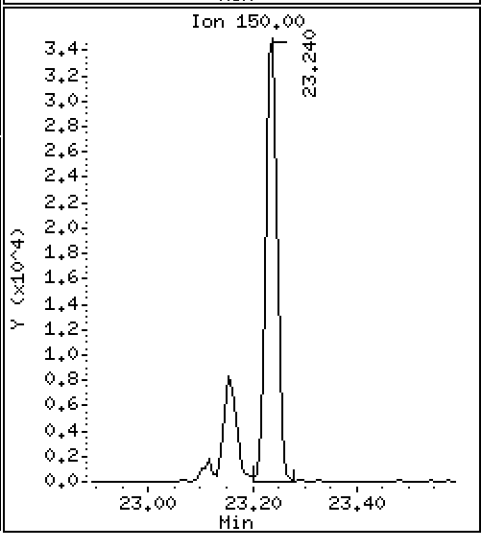


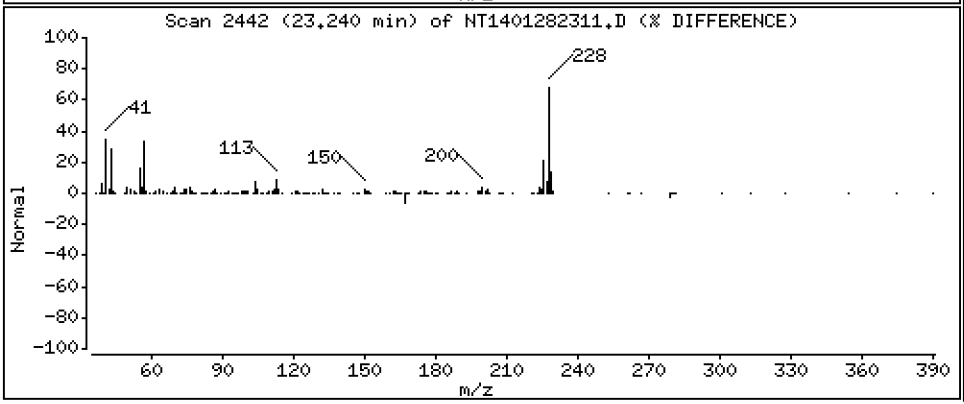












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

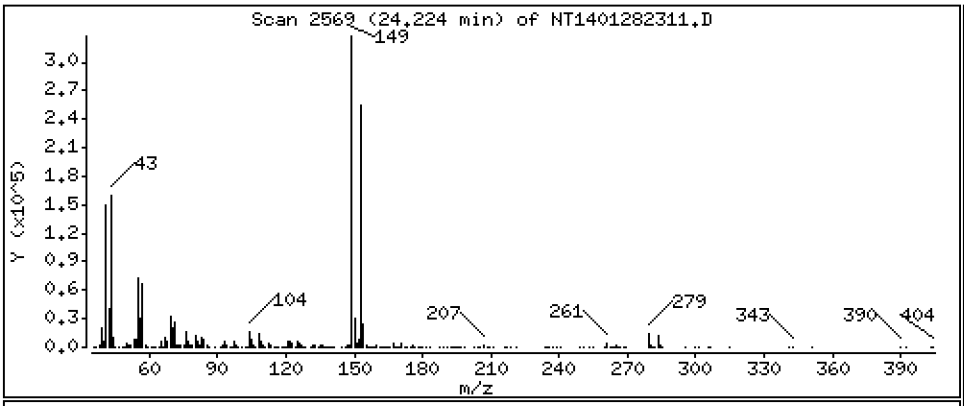
Operator: JGR

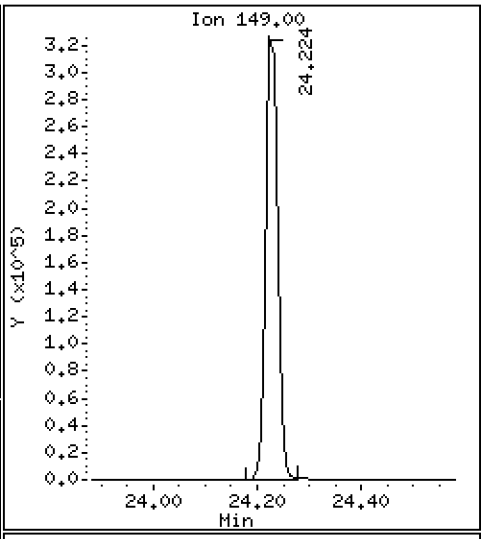
Column phase: ZB-5msi

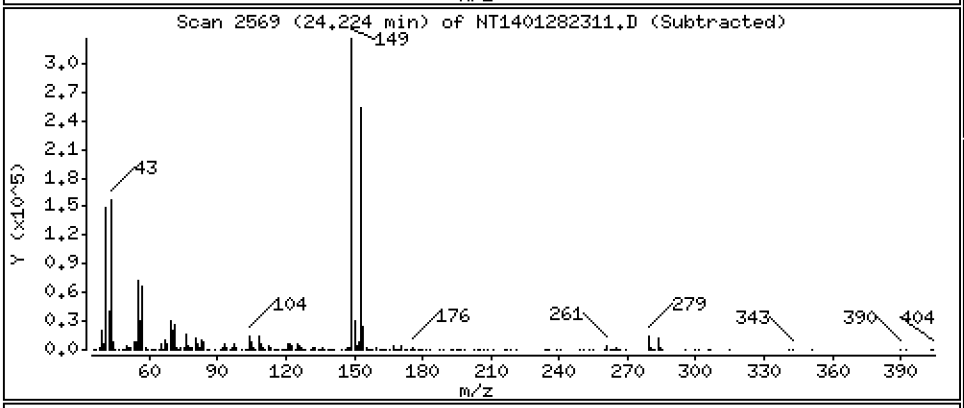
Column diameter: 0.25

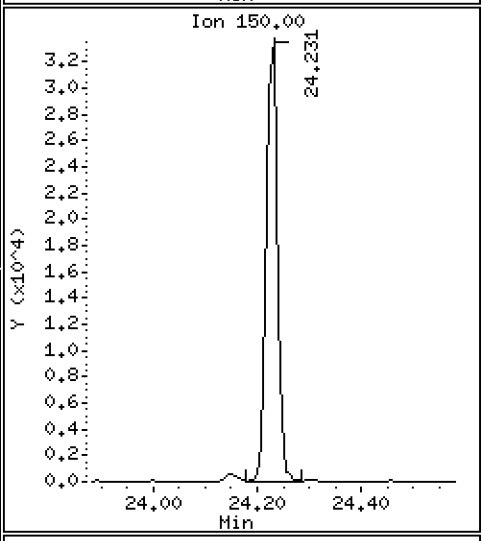
73 Di-n-octylphthalate

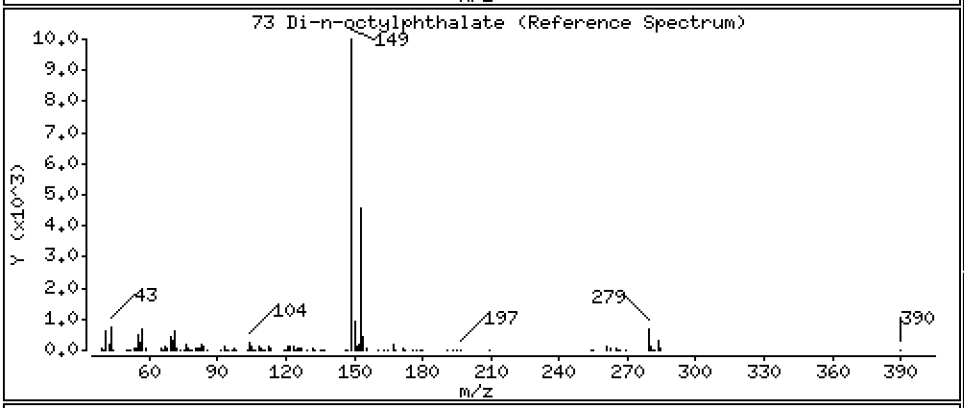
Concentration: 4.835 ug/mL

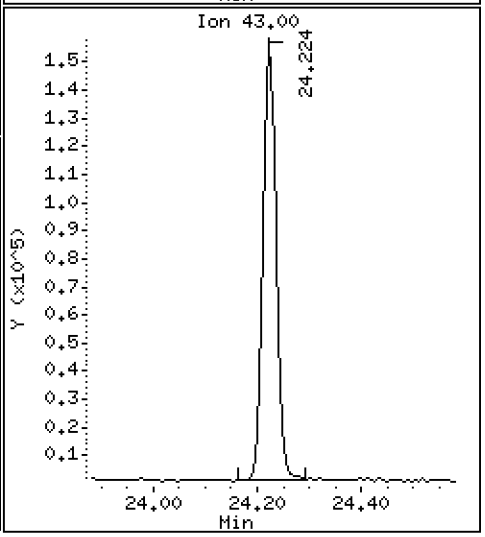


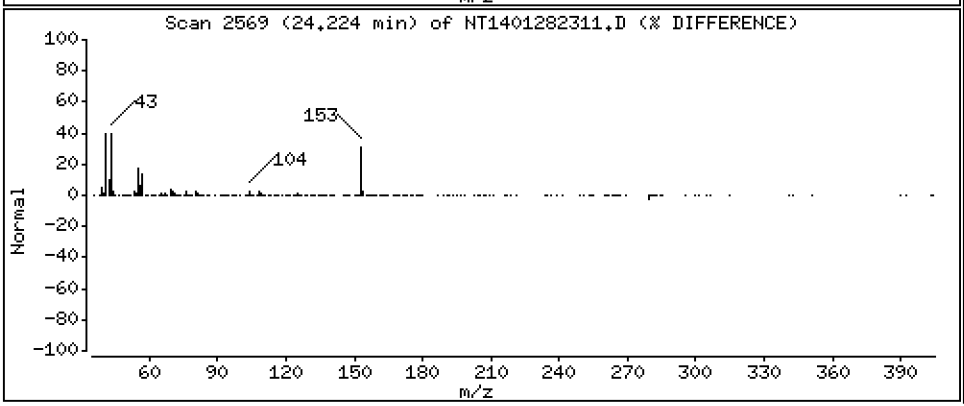












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

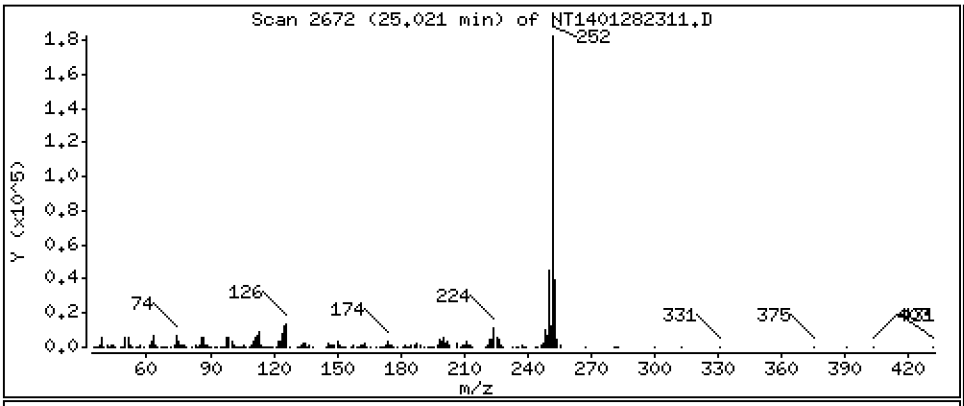
Operator: JGR

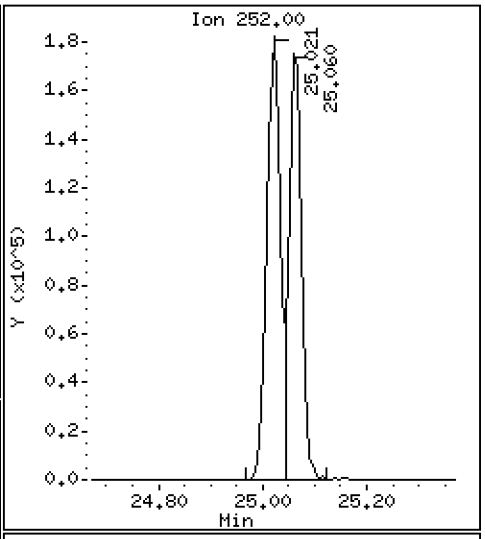
Column phase: ZB-5msi

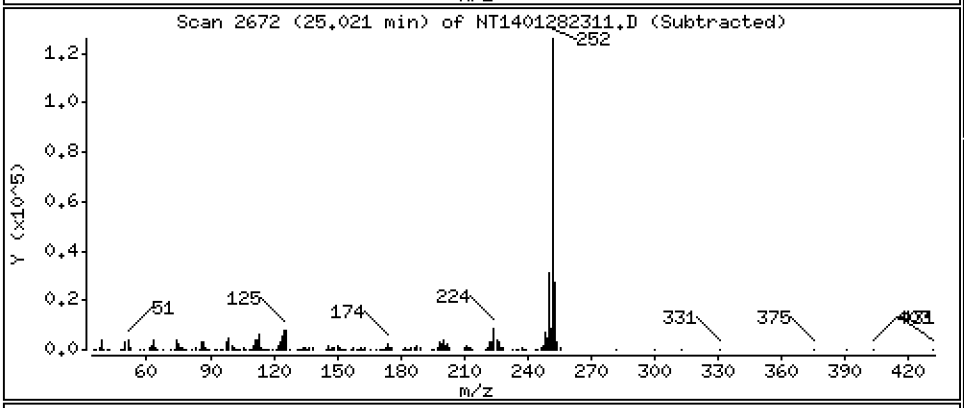
Column diameter: 0.25

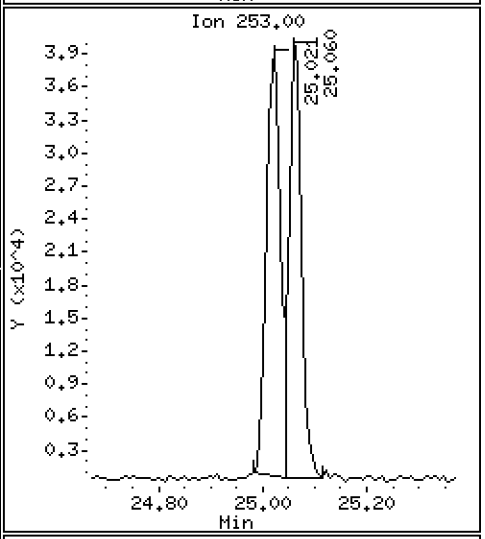
74 Benzo(b)fluoranthene

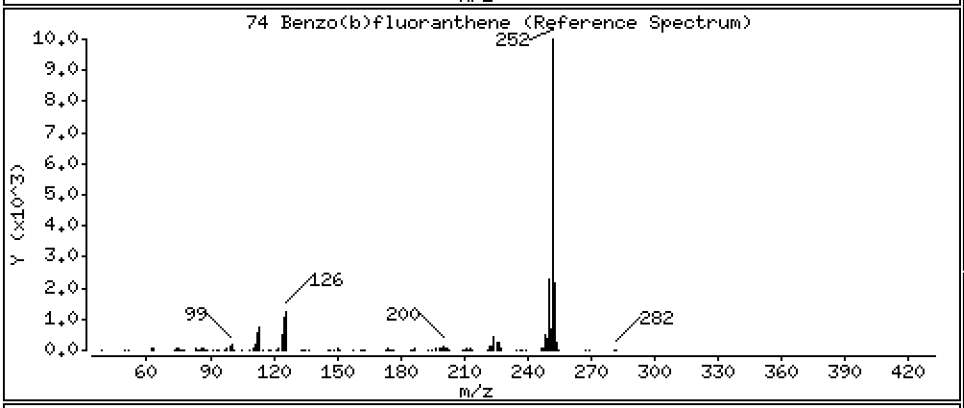
Concentration: 4.734 ug/mL

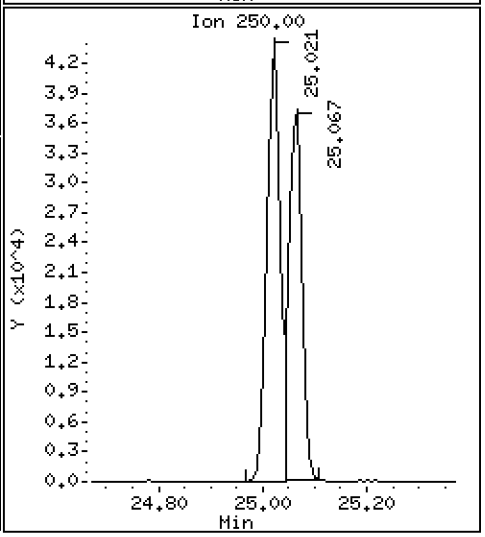


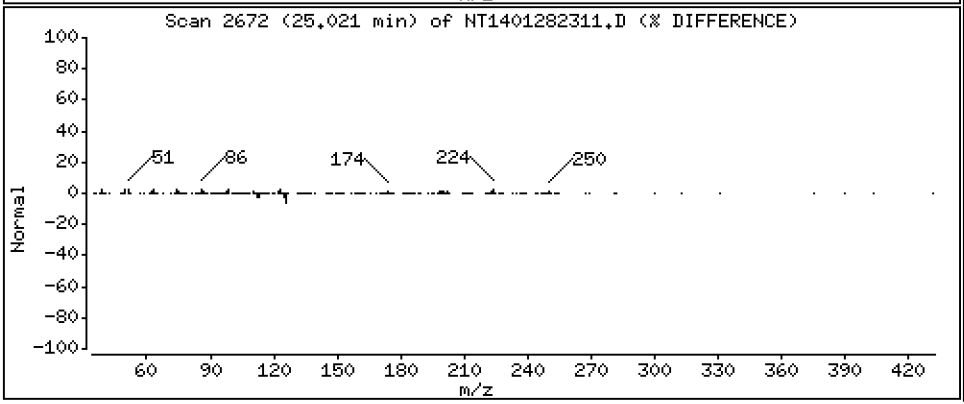












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

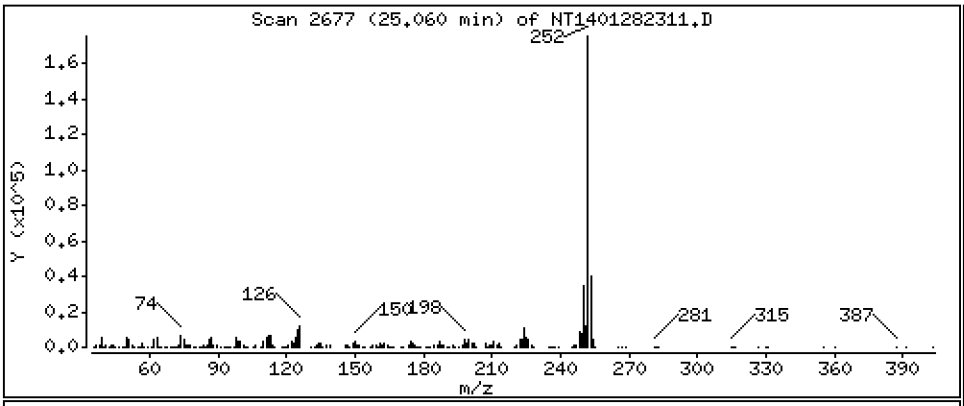
Operator: JGR

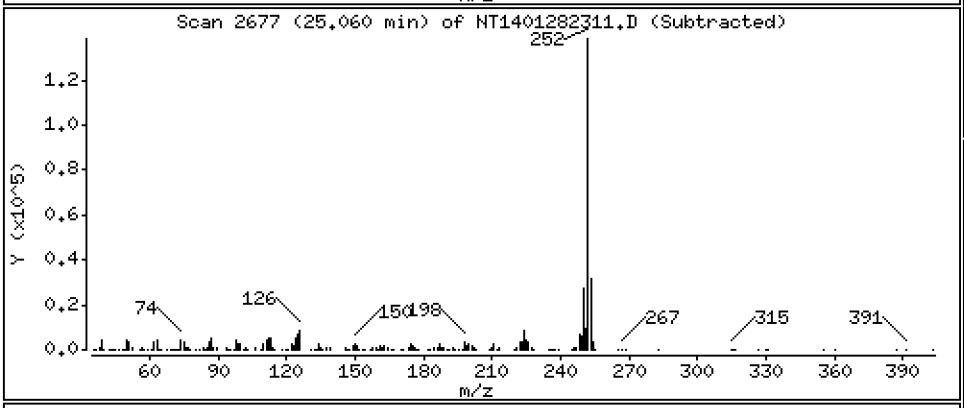
Column phase: ZB-5msi

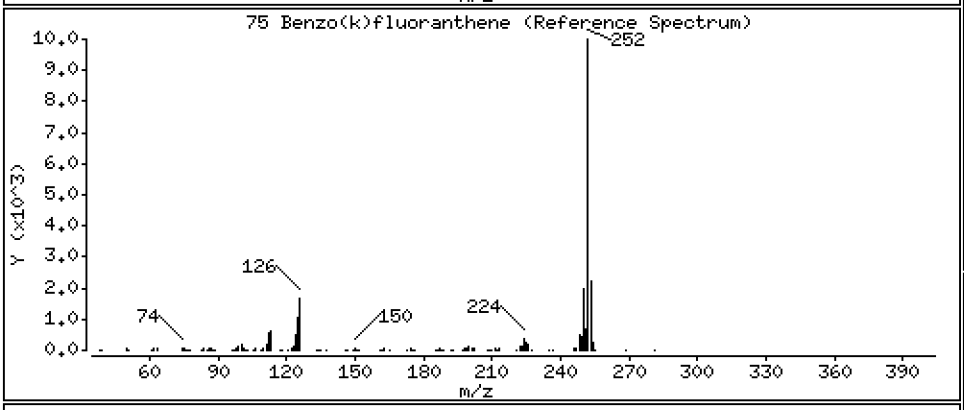
Column diameter: 0.25

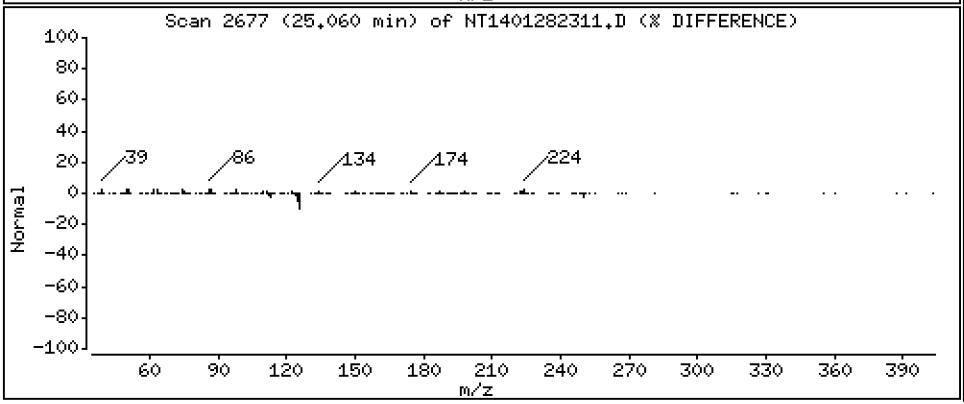
75 Benzo(k)fluoranthene

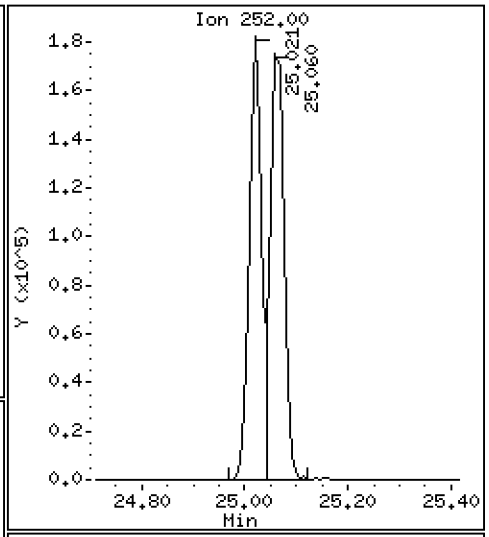
Concentration: 4.387 ug/mL

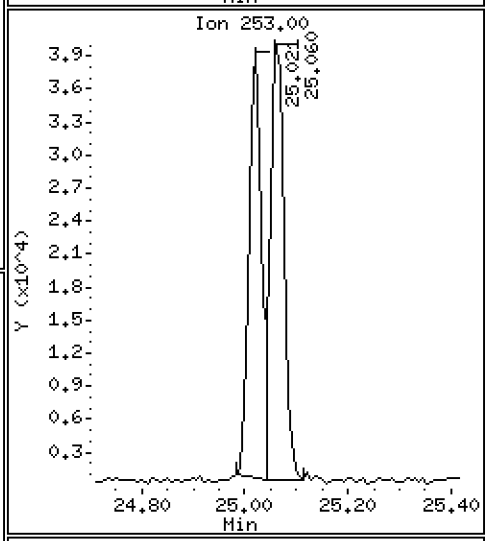


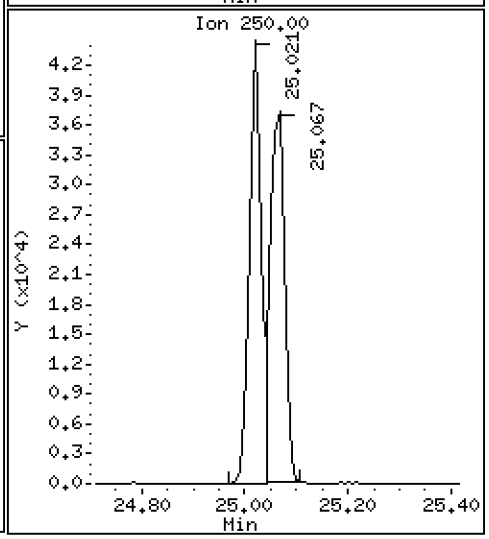












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

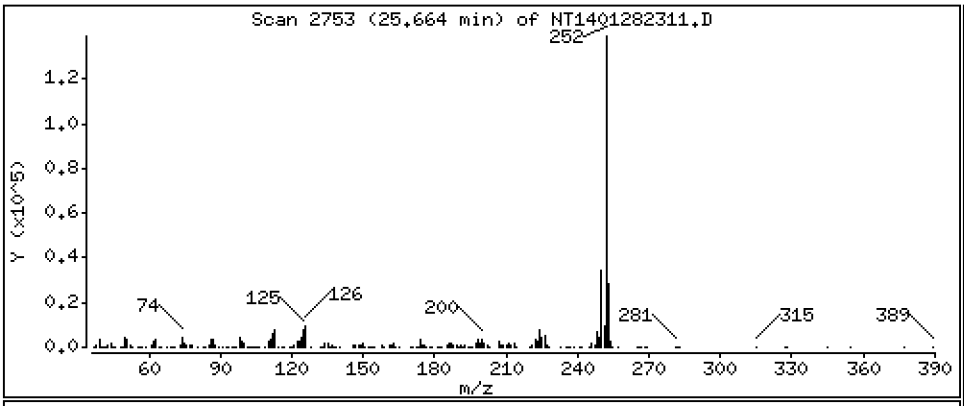
Operator: JGR

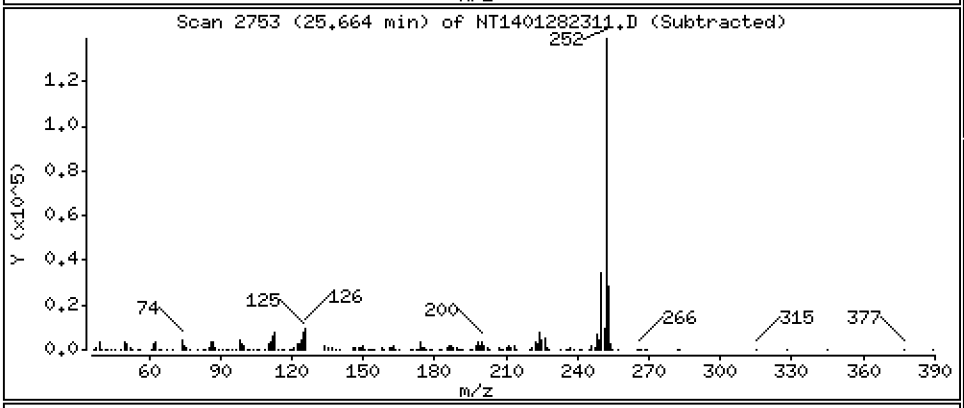
Column phase: ZB-5msi

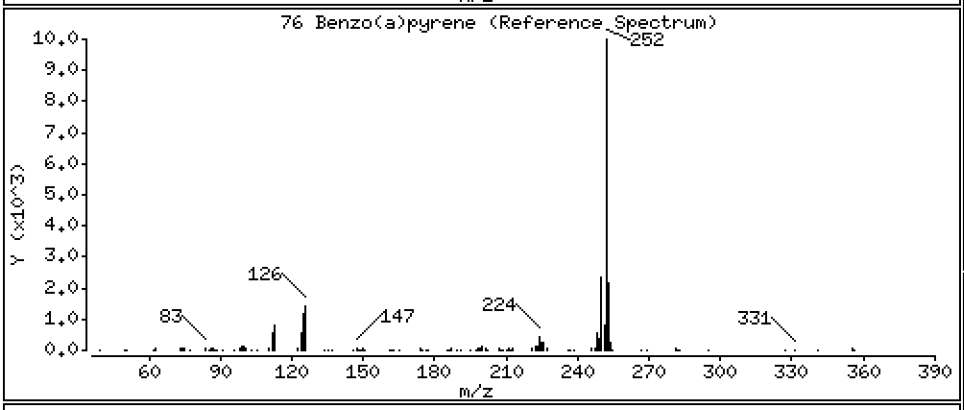
Column diameter: 0.25

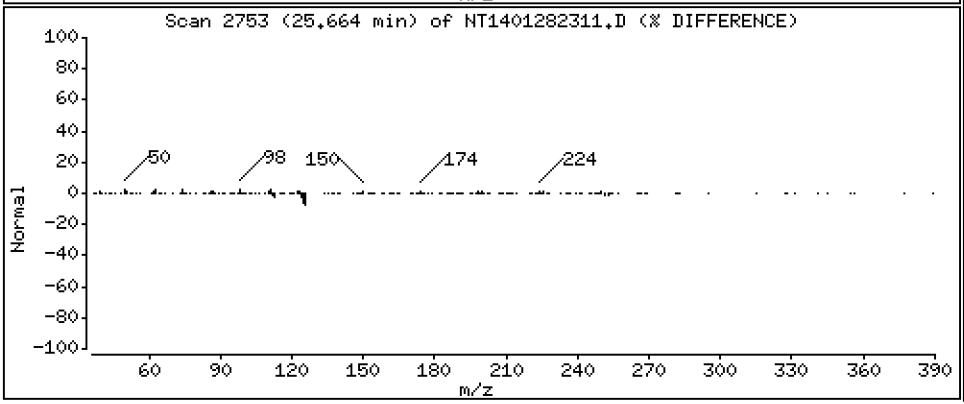
76 Benzo(a)pyrene

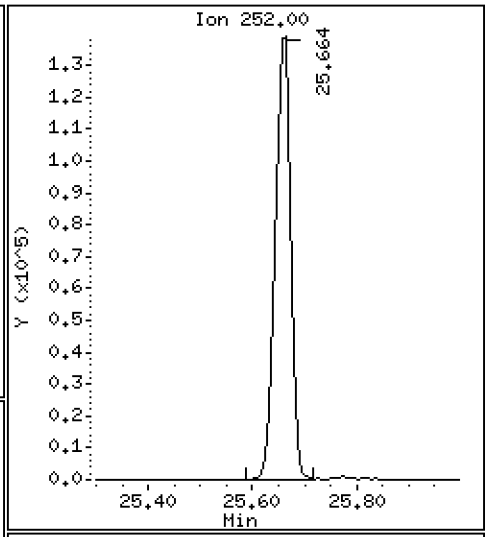
Concentration: 4.660 ug/mL

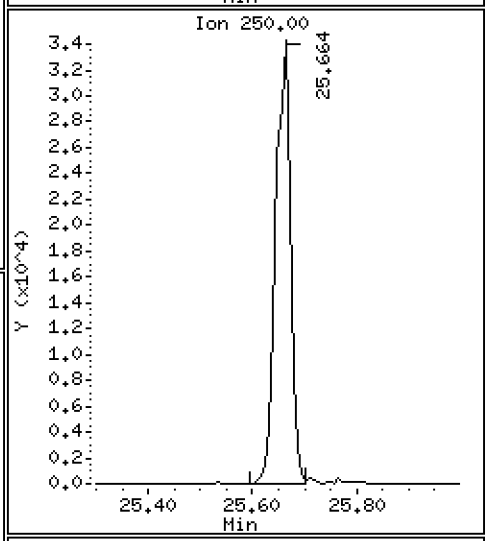


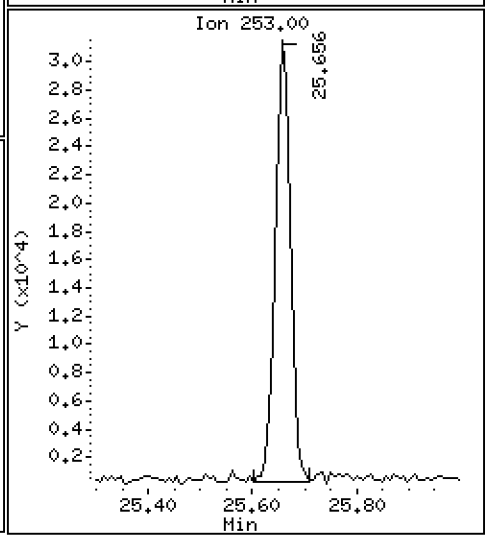












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

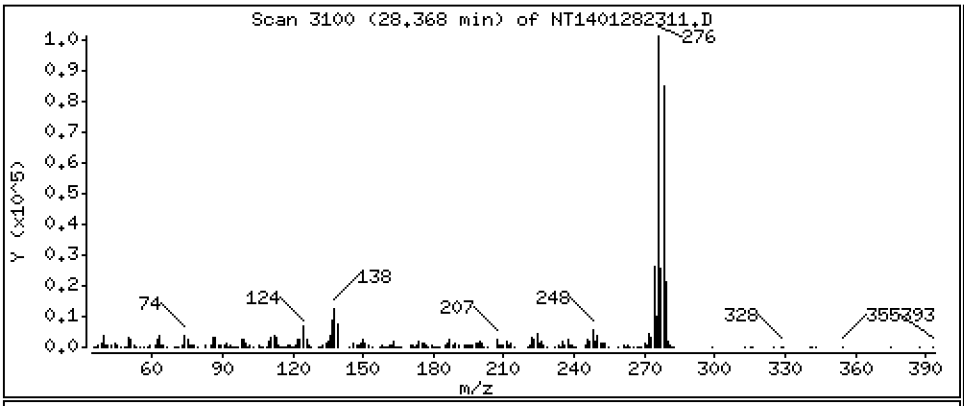
Operator: JGR

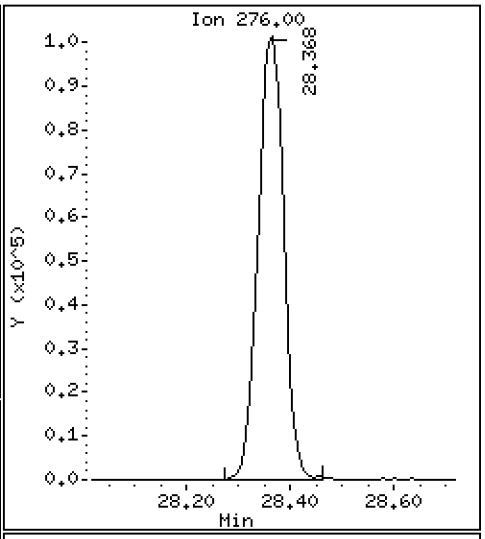
Column phase: ZB-5msi

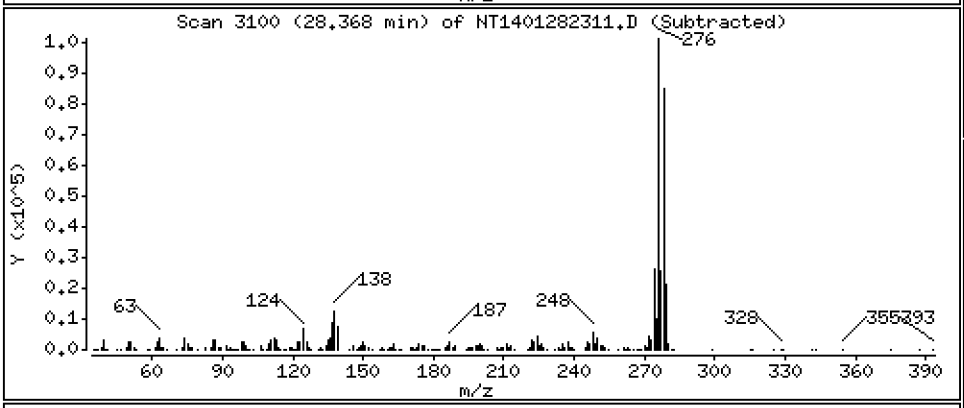
Column diameter: 0.25

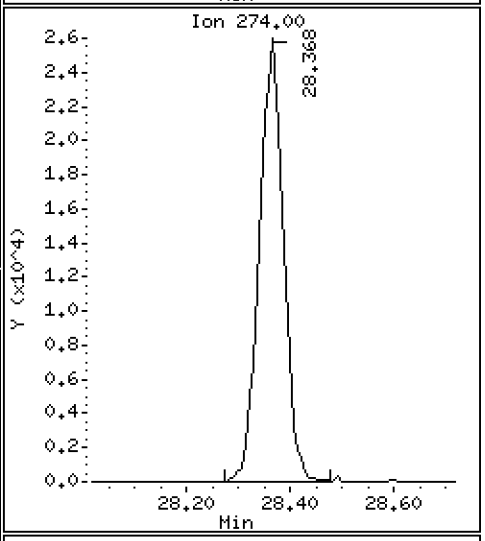
78 Indeno(1,2,3-cd)pyrene

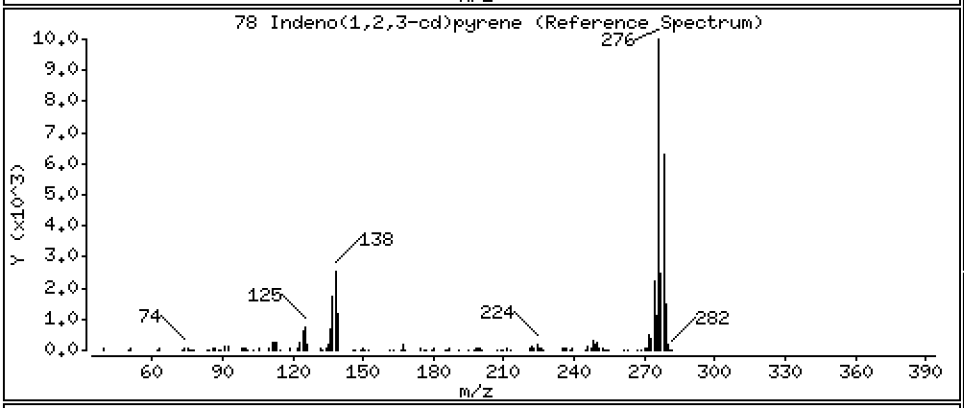
Concentration: 4.636 ug/mL

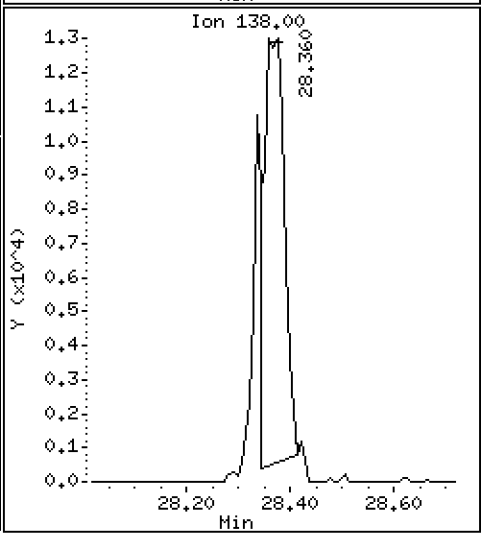


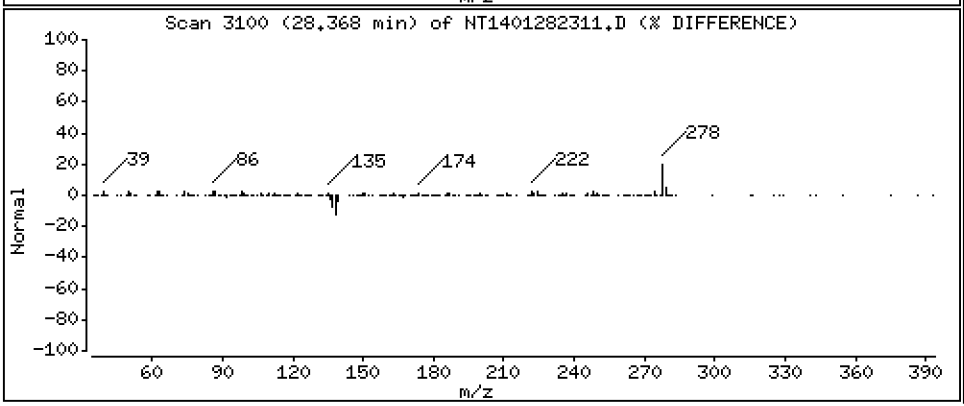












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

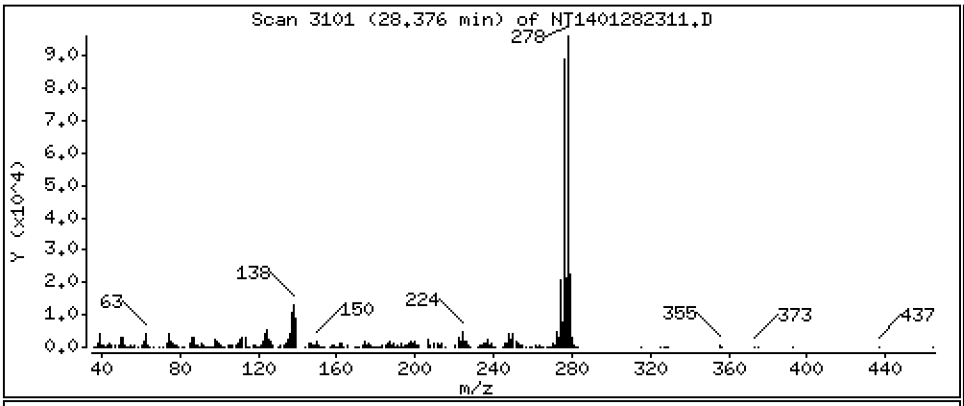
Operator: JGR

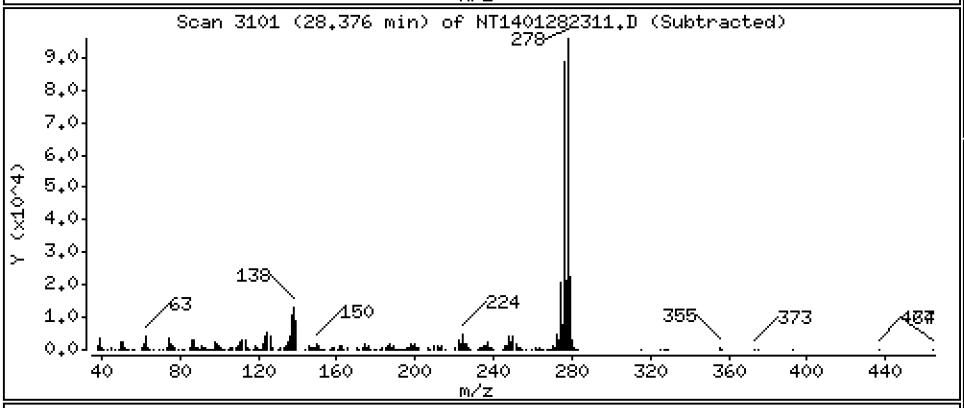
Column phase: ZB-5msi

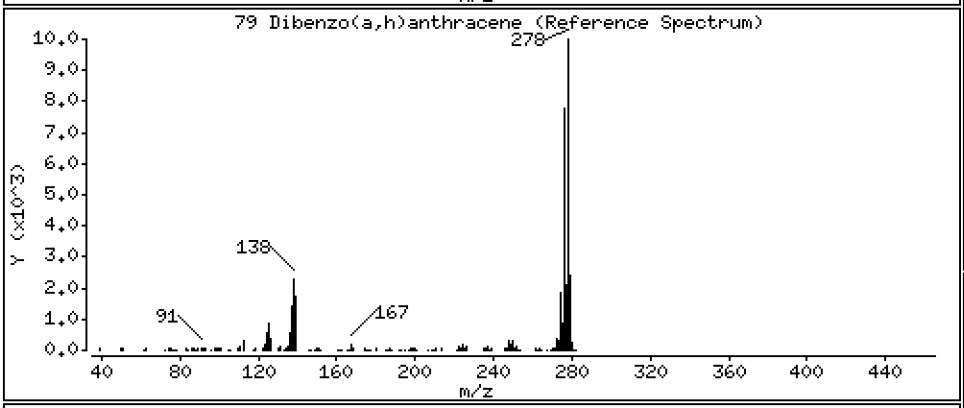
Column diameter: 0.25

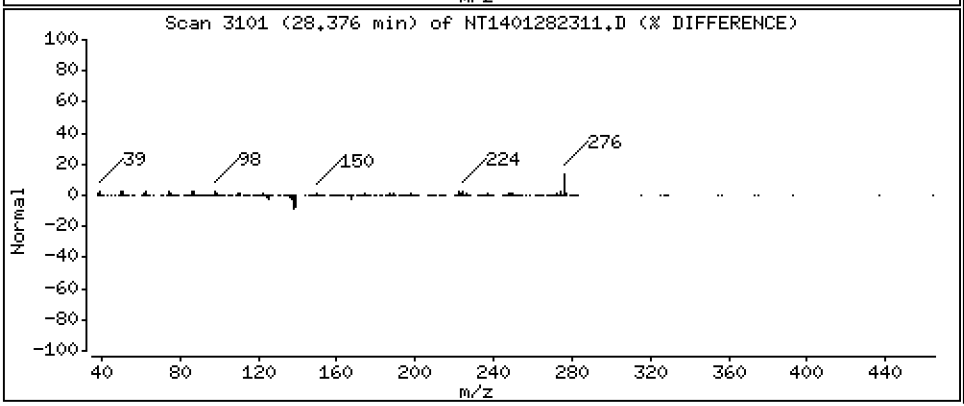
79 Dibenzo(a,h)anthracene

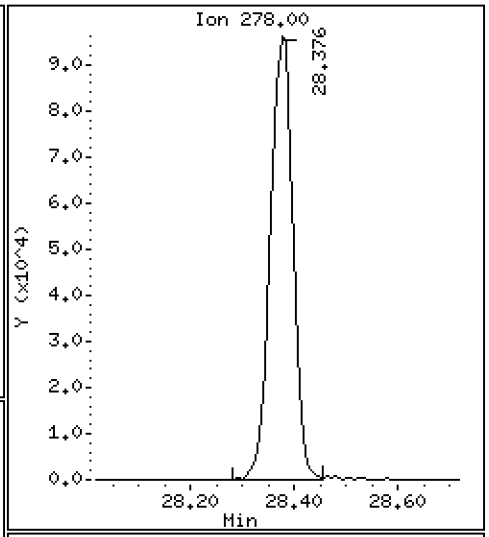
Concentration: 4.455 ug/mL

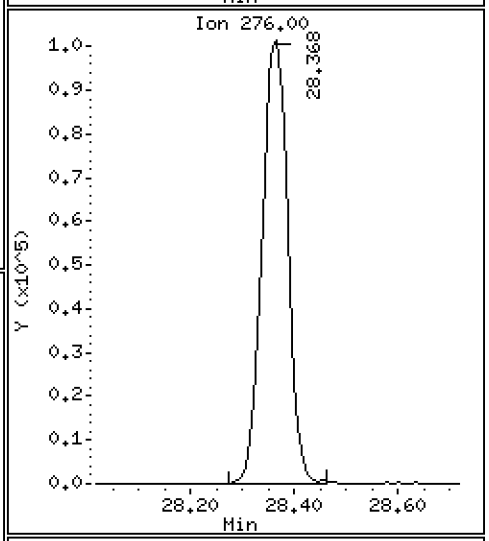


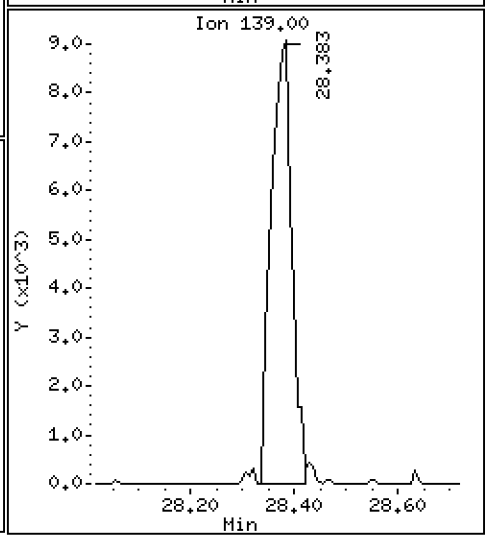












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

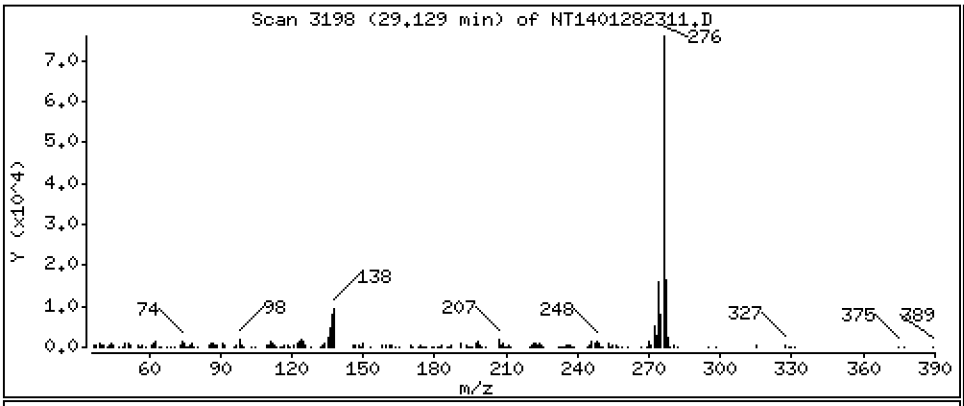
Operator: JGR

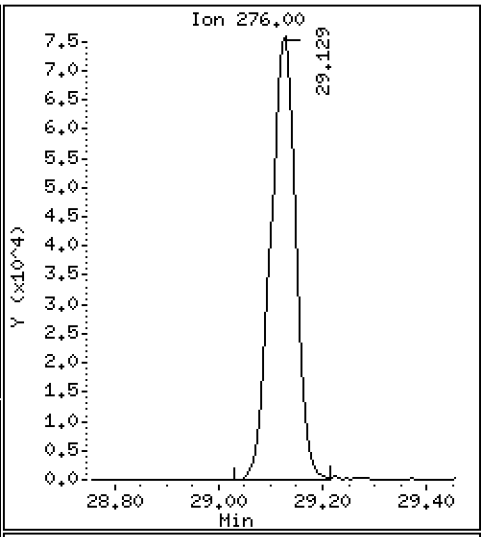
Column phase: ZB-5msi

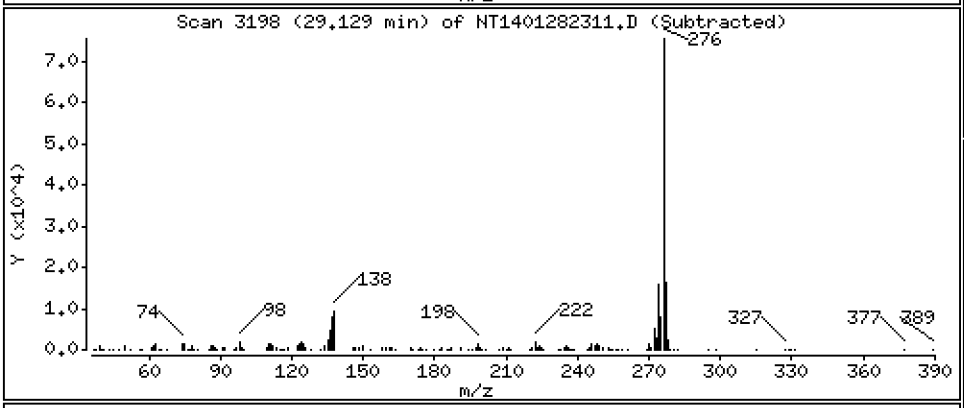
Column diameter: 0.25

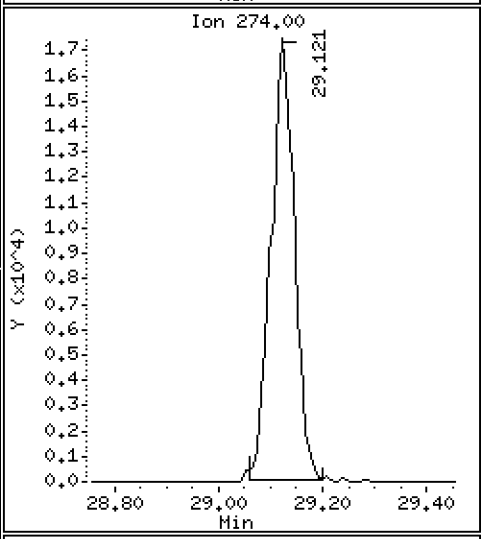
80 Benzo(g,h,i)perylene

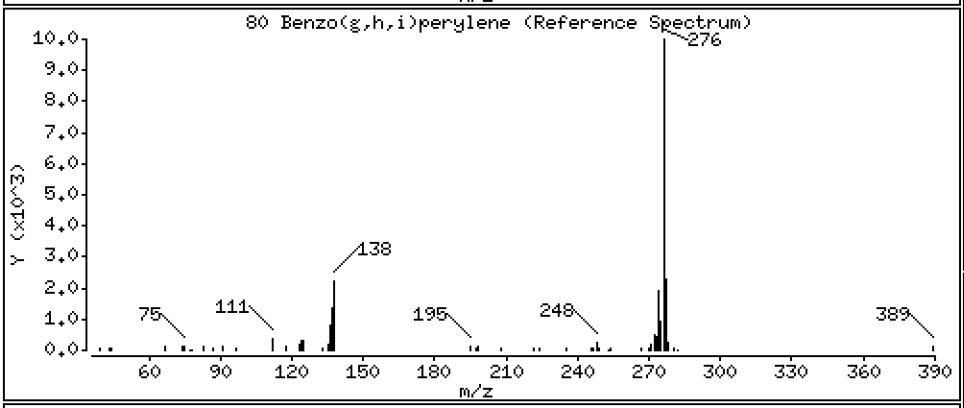
Concentration: 4.657 ug/mL

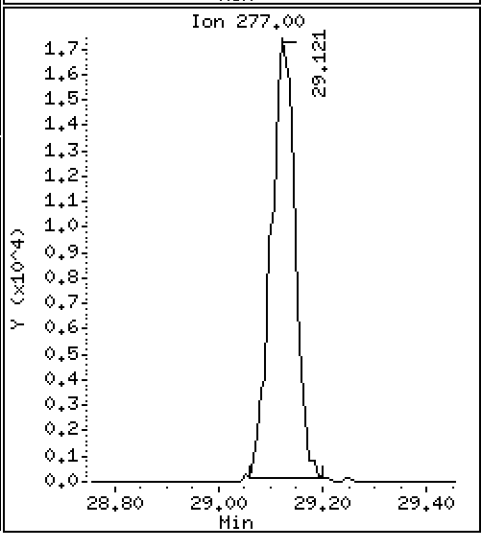


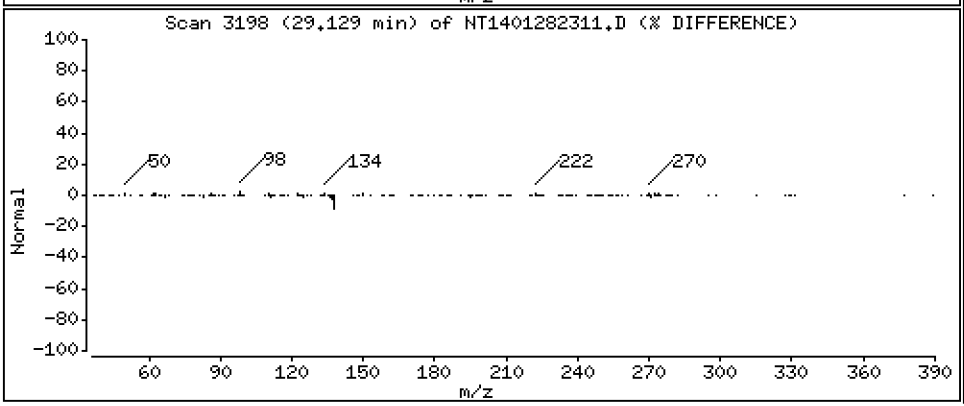












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

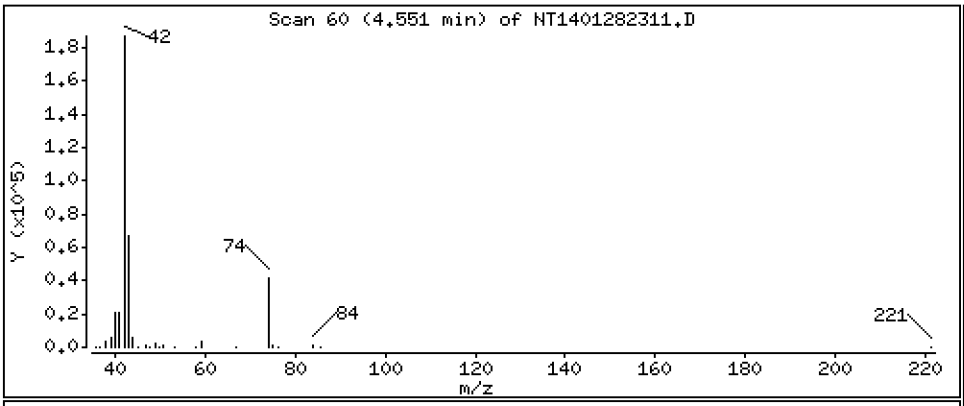
Operator: JGR

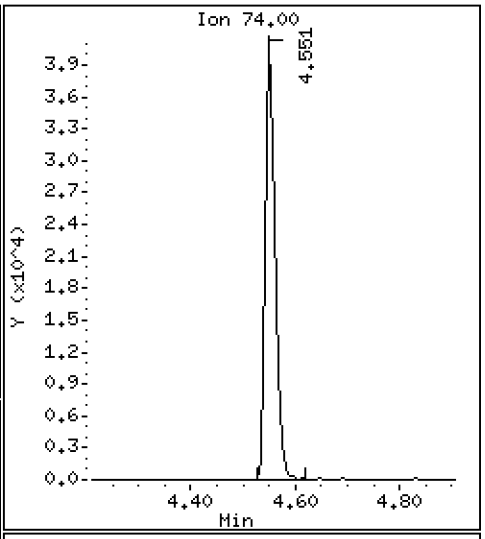
Column phase: ZB-5msi

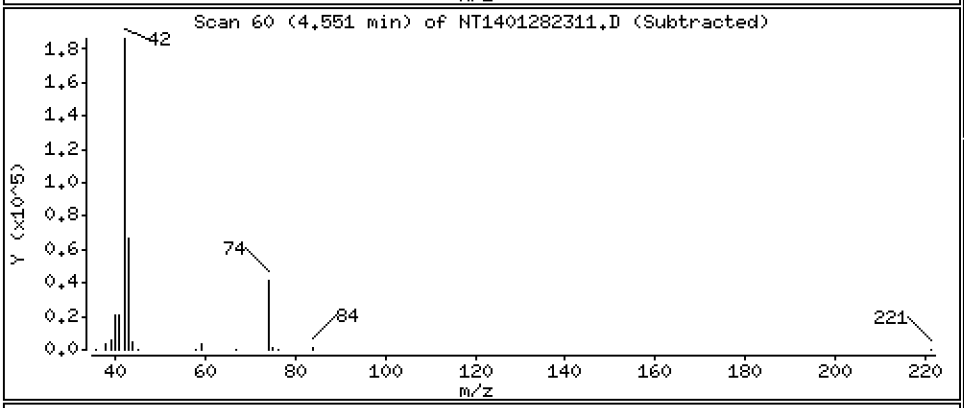
Column diameter: 0.25

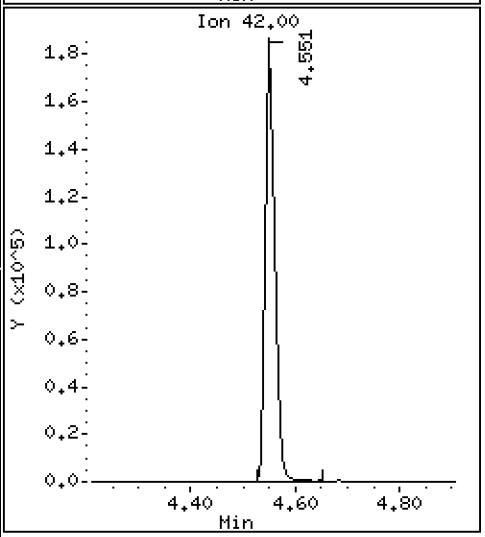
90 N-Nitrosodimethylamine

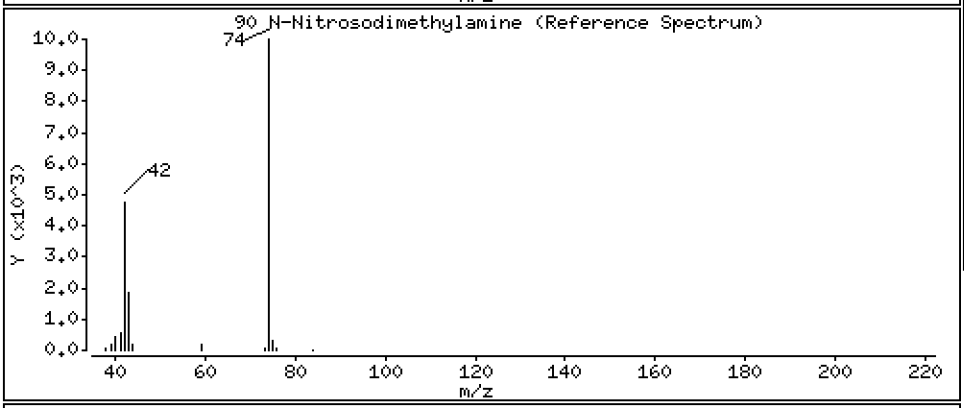
Concentration: 4.932 ug/mL

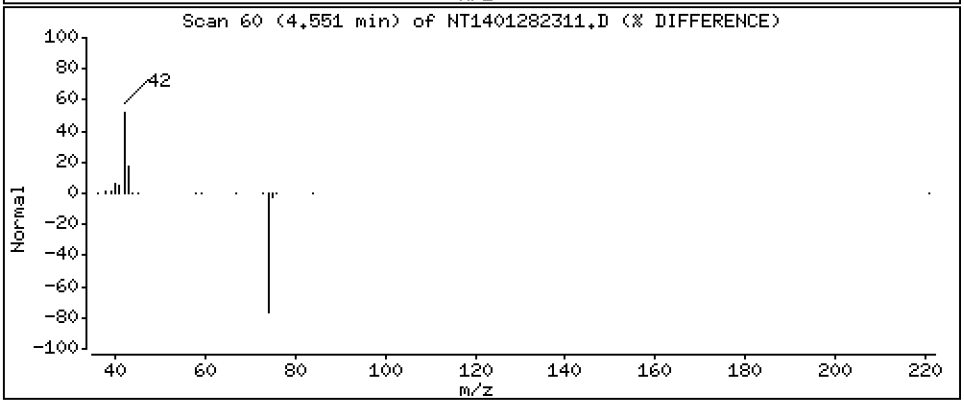












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

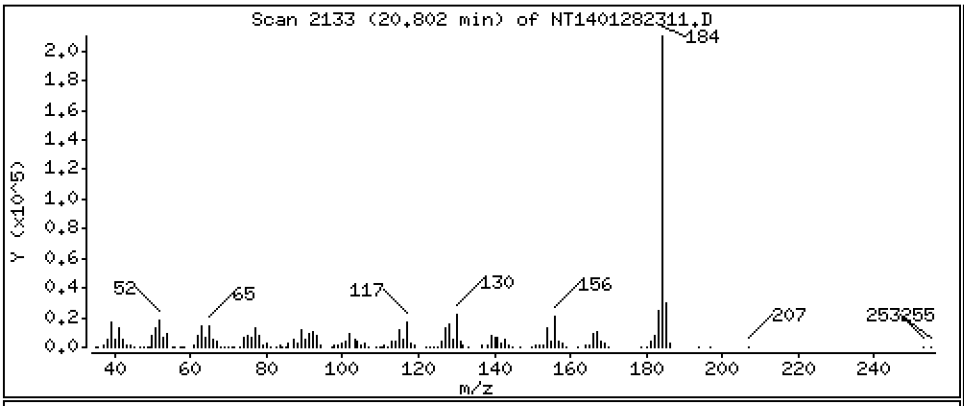
Operator: JGR

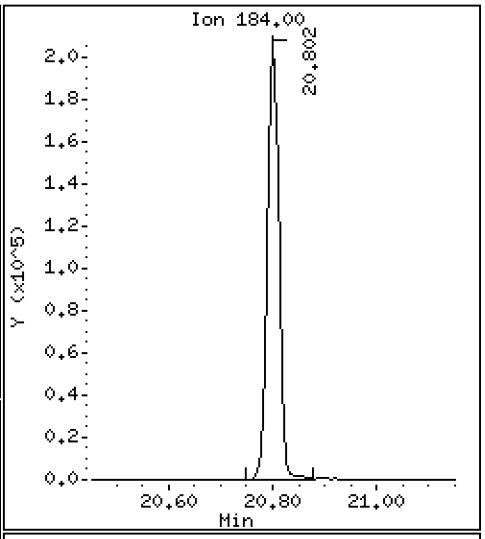
Column phase: ZB-5msi

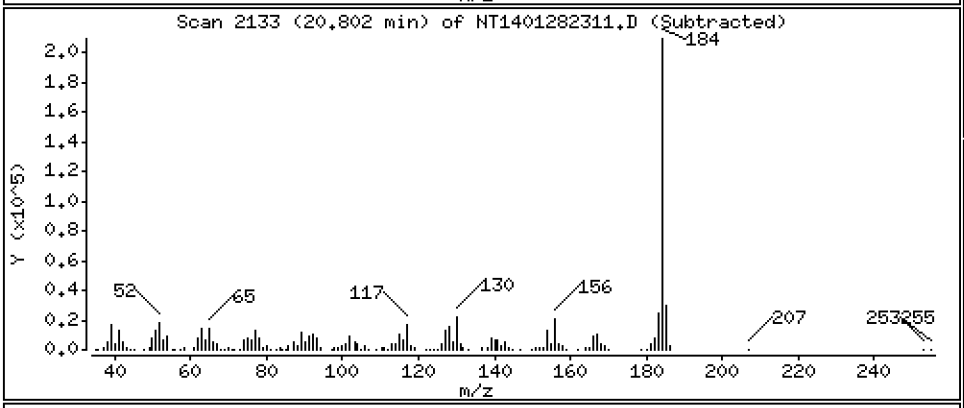
Column diameter: 0.25

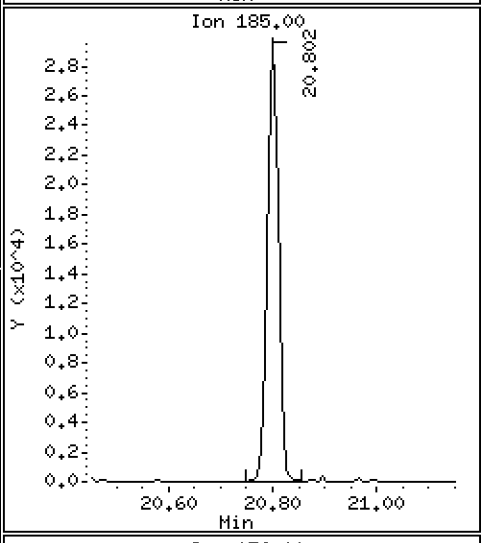
93 Benzidine

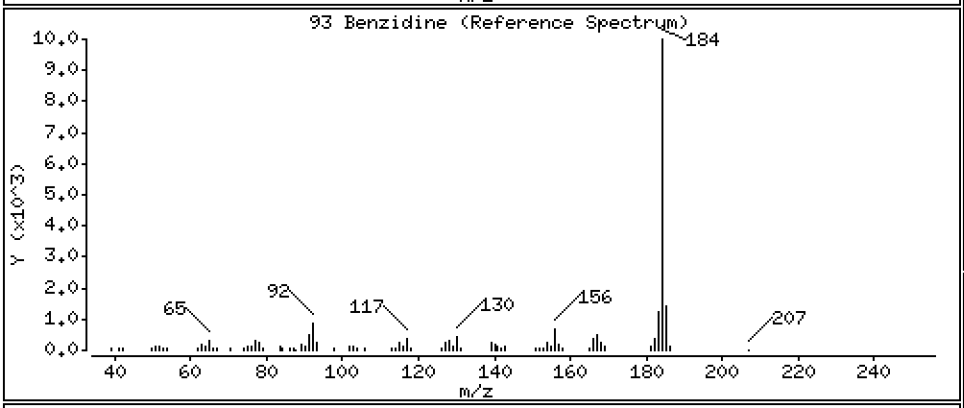
Concentration: 8.135 ug/mL

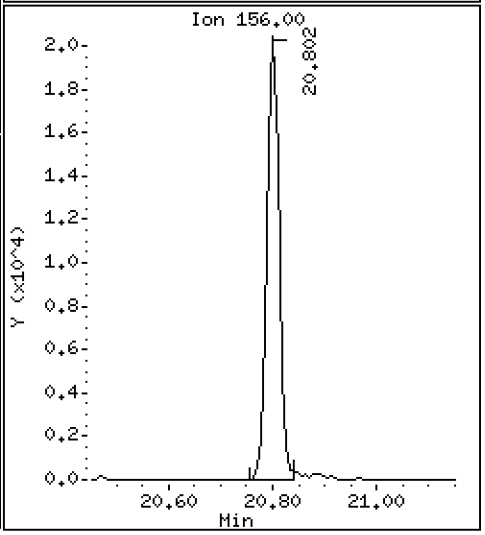


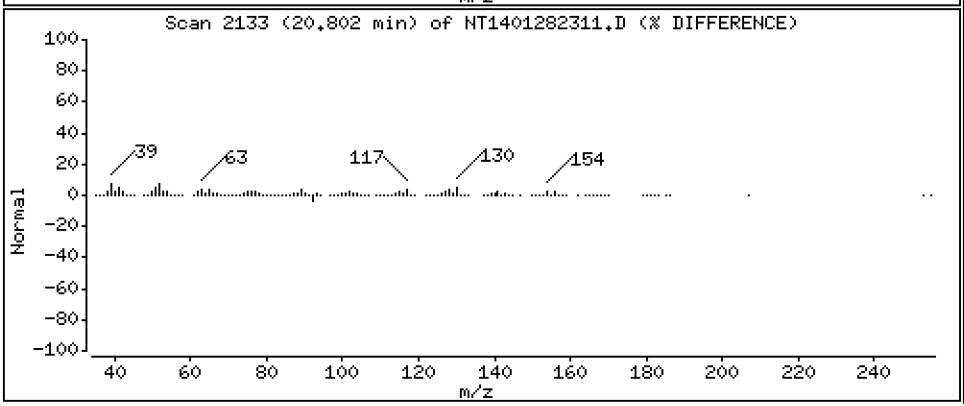












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

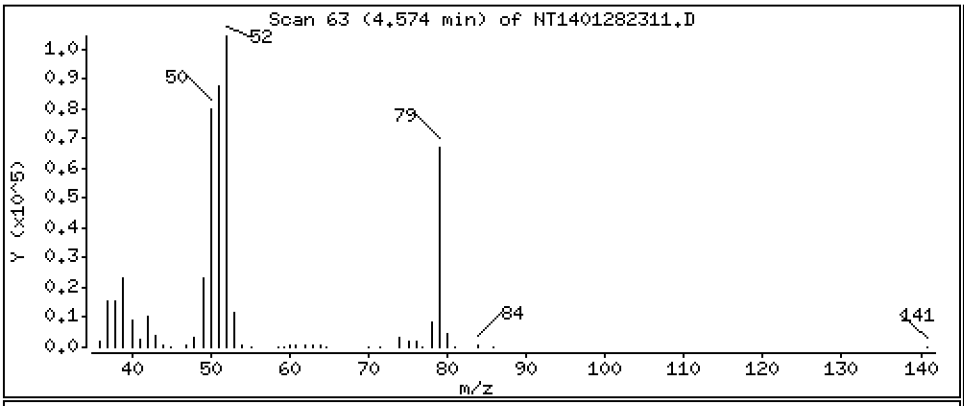
Operator: JGR

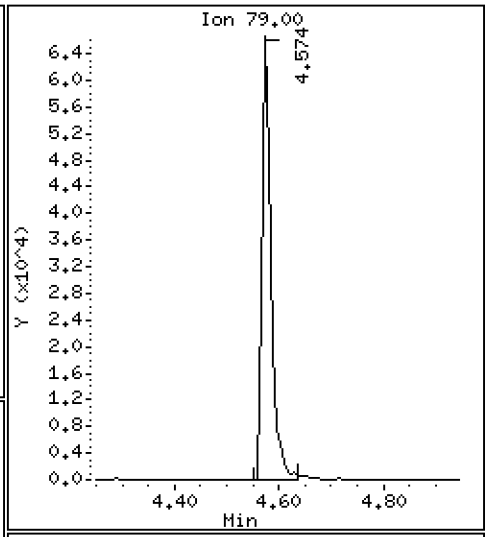
Column phase: ZB-5msi

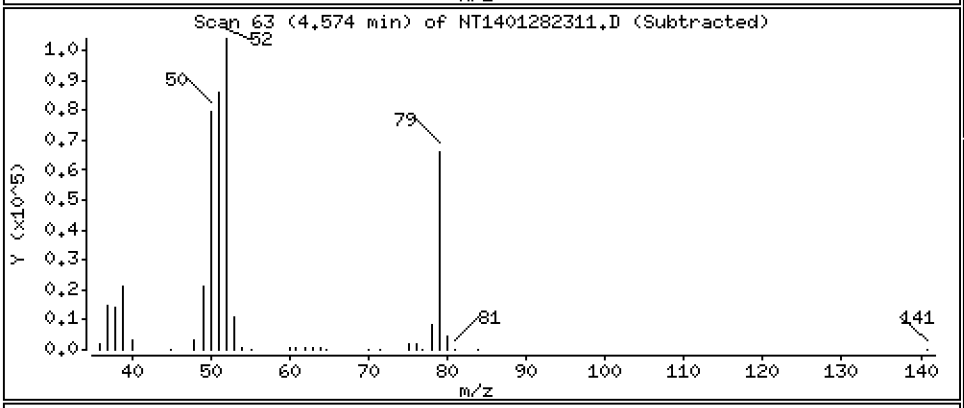
Column diameter: 0.25

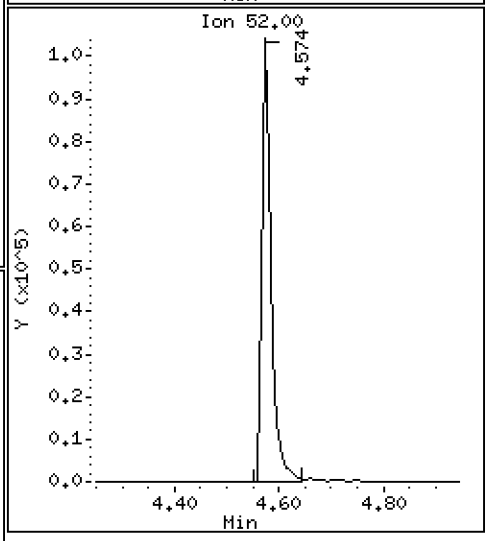
103 Pyridine

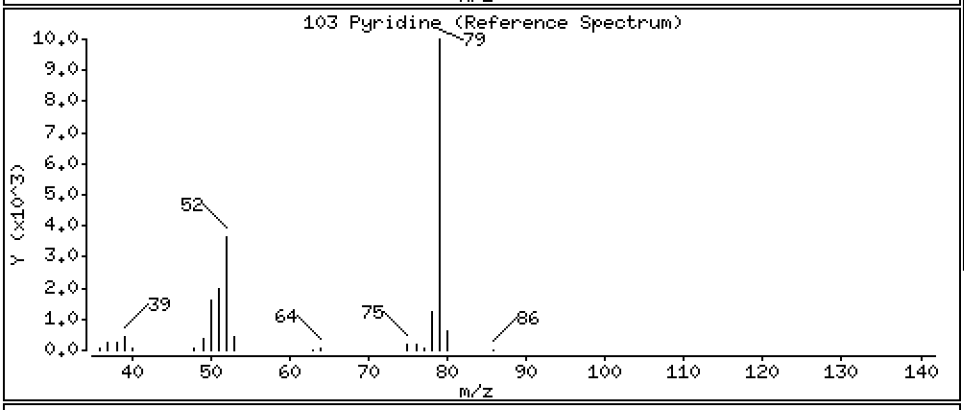
Concentration: 2.723 ug/mL

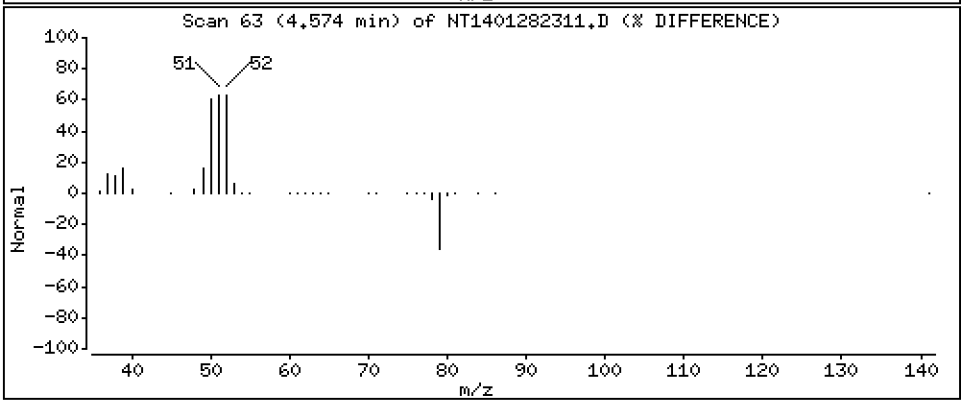












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

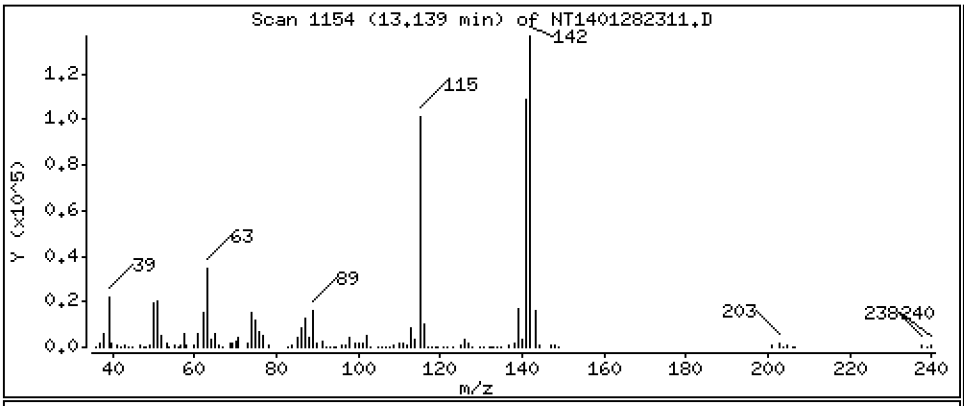
Operator: JGR

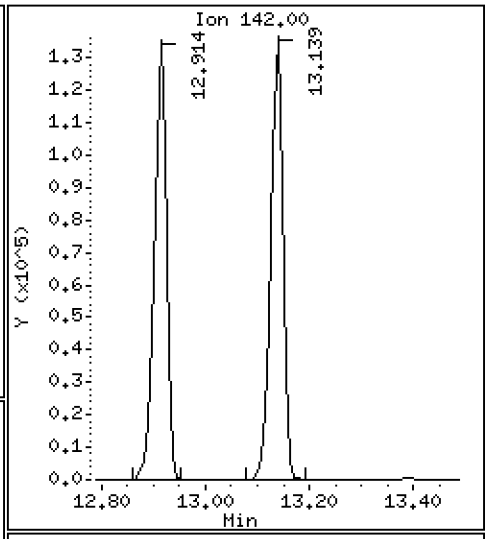
Column phase: ZB-5msi

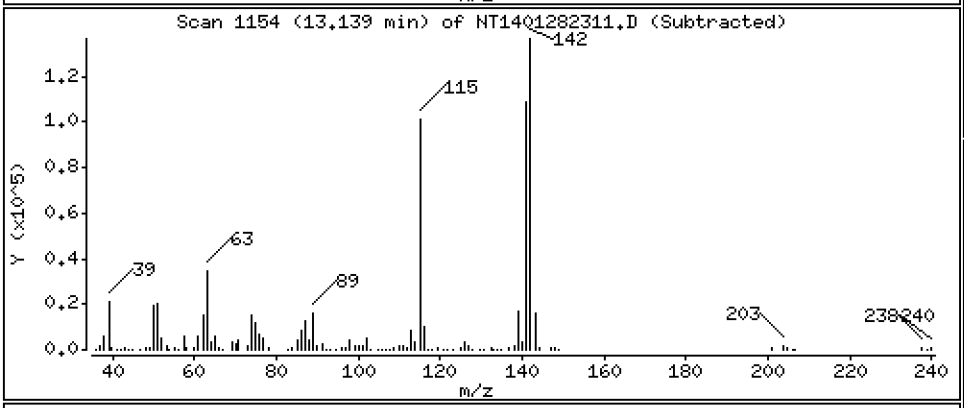
Column diameter: 0.25

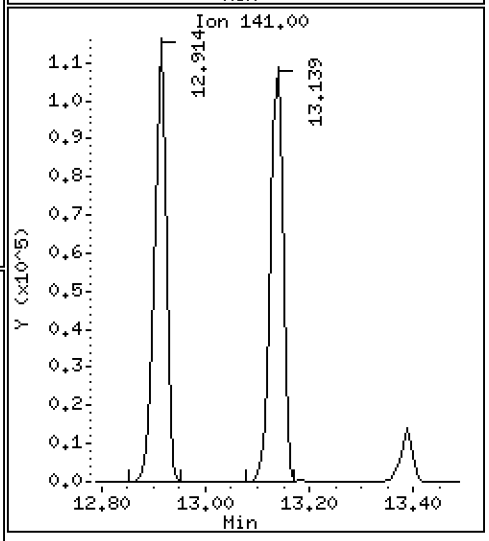
105 1-methylnaphthalene

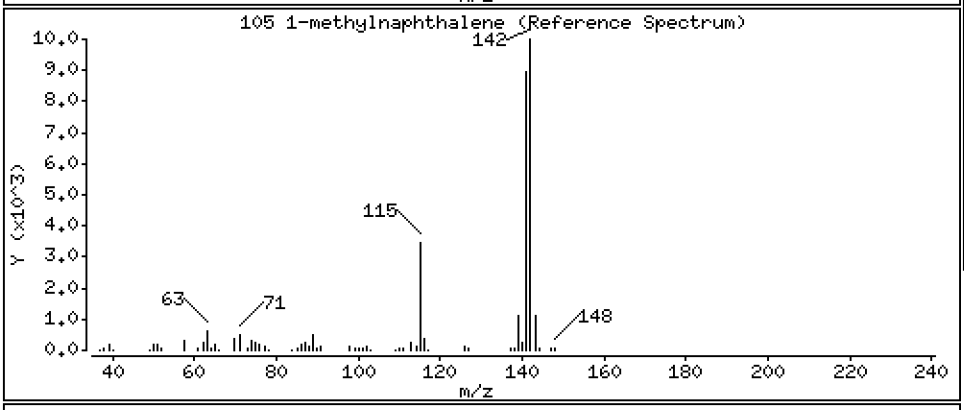
Concentration: 4.378 ug/mL

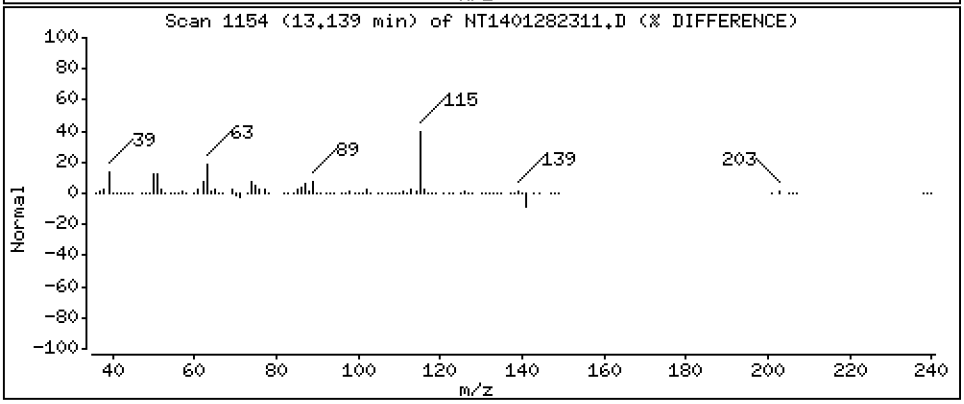












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

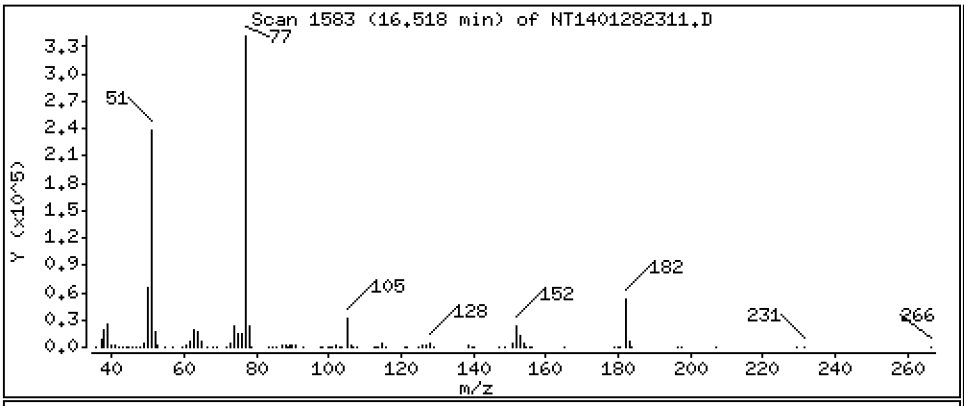
Operator: JGR

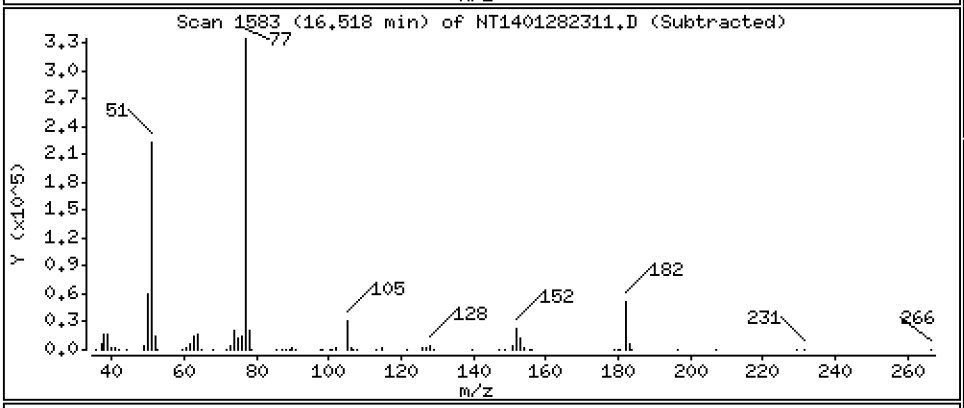
Column phase: ZB-5msi

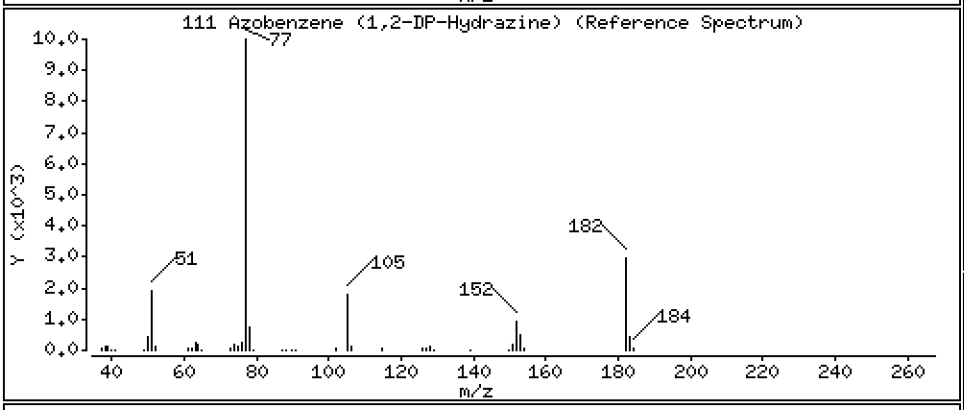
Column diameter: 0.25

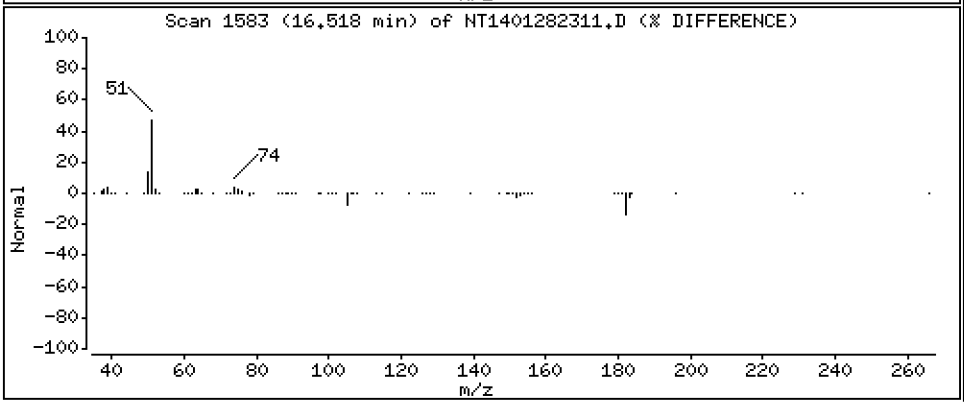
111 Azobenzene (1,2-DP-Hydrazine)

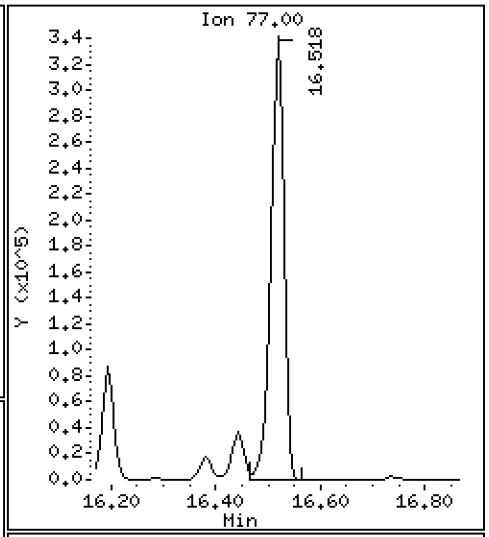
Concentration: 4.801 ug/mL

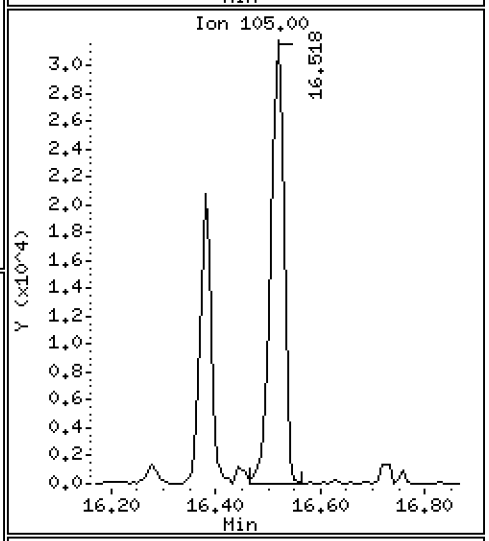


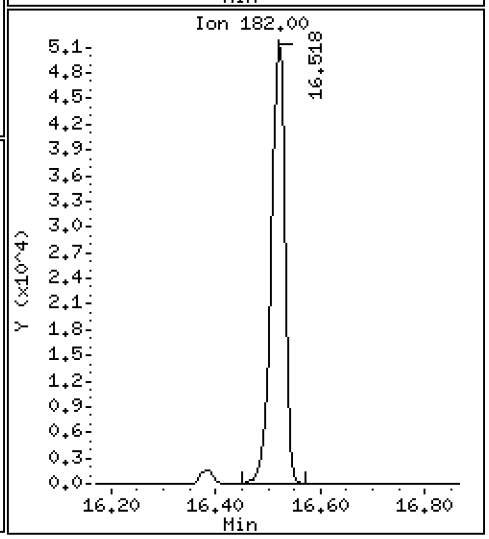












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

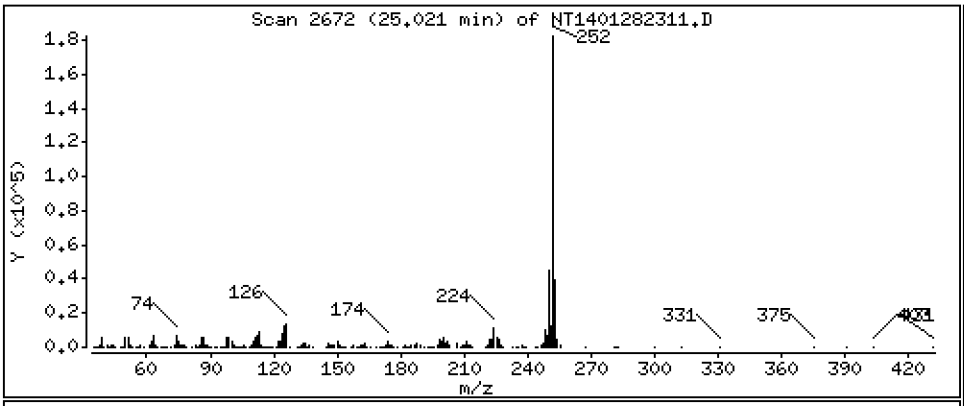
Operator: JGR

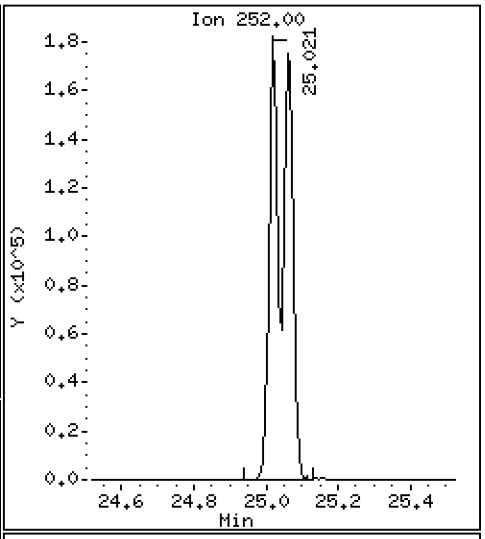
Column phase: ZB-5msi

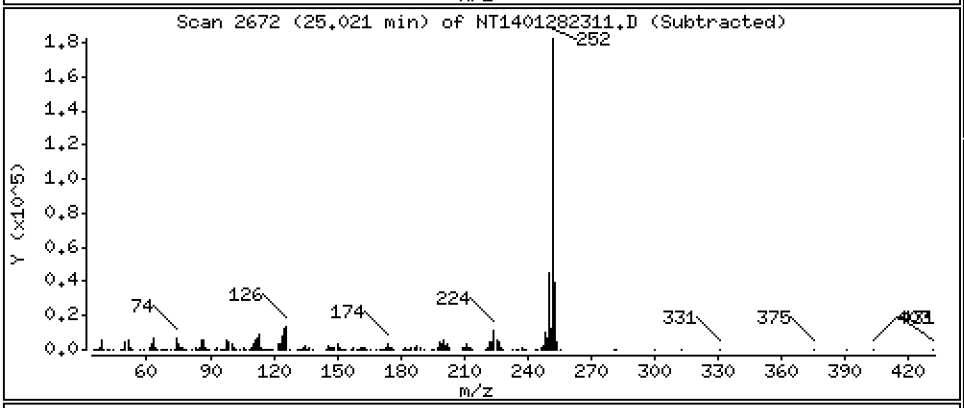
Column diameter: 0.25

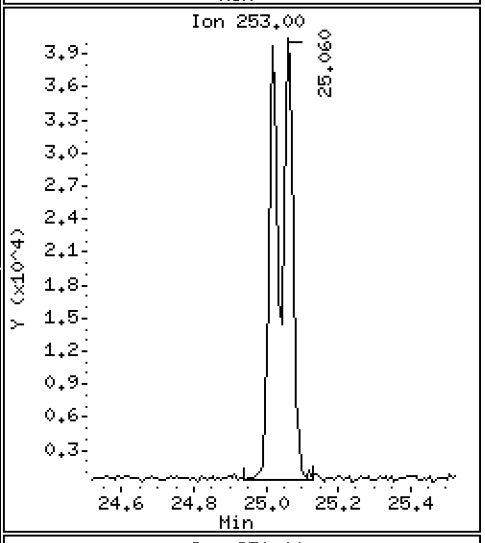
187 Total Benzofluoranthenes

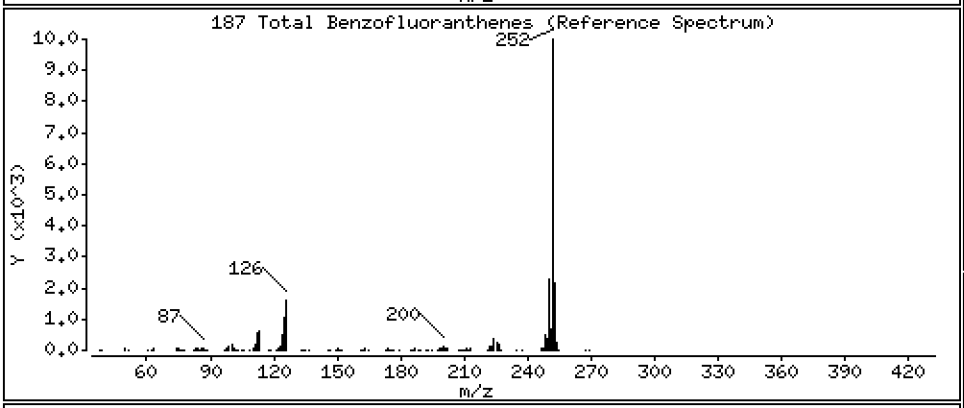
Concentration: 9.093 ug/mL

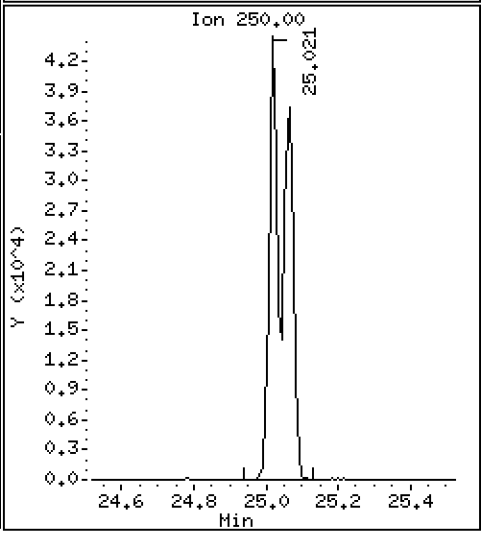


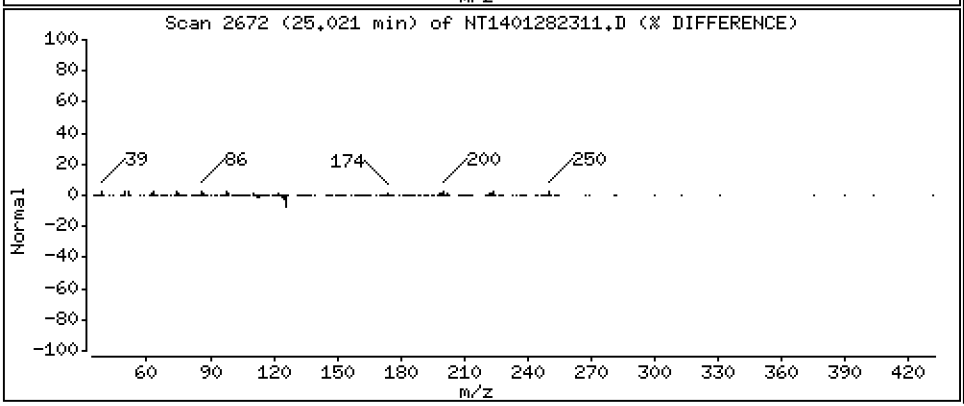












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

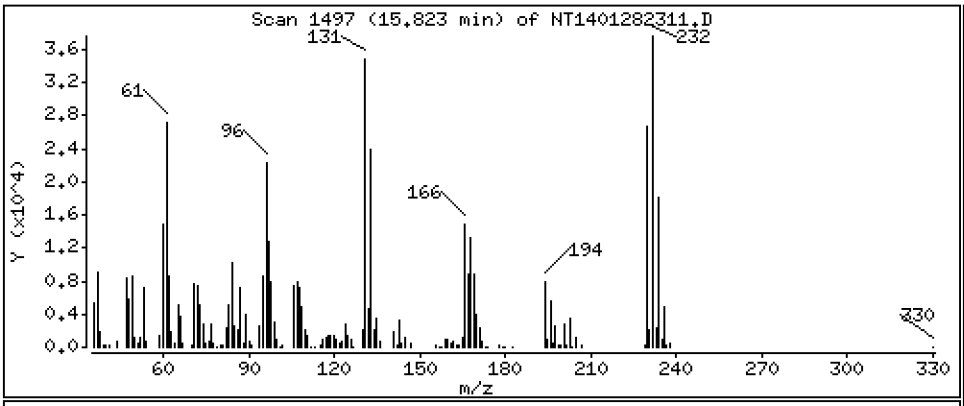
Operator: JGR

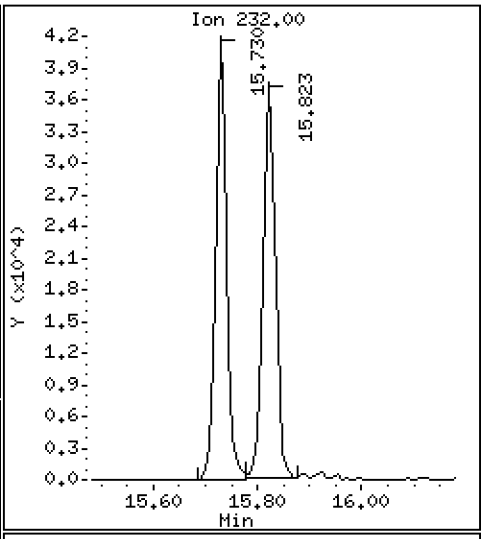
Column phase: ZB-5msi

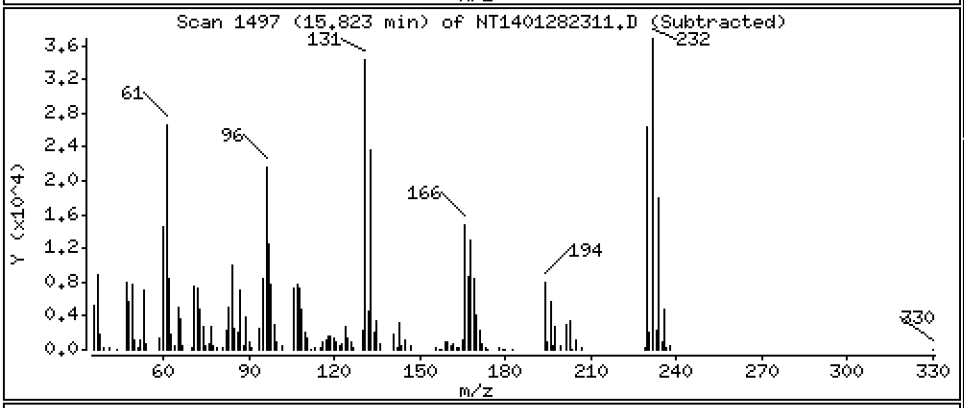
Column diameter: 0.25

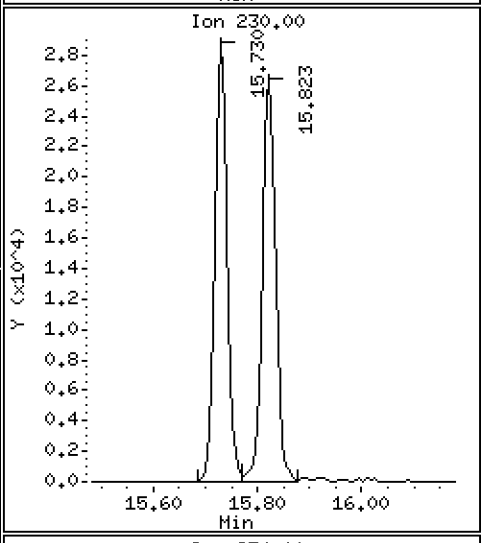
120 2,3,4,6-Tetrachlorophenol

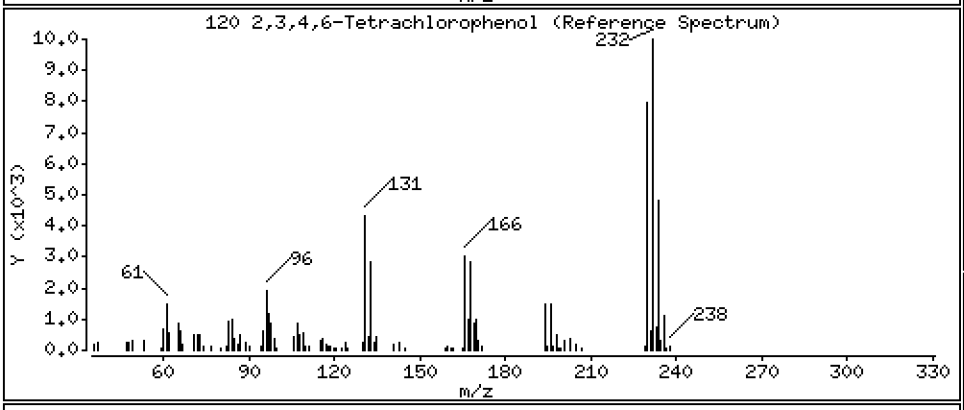
Concentration: 3.160 ug/mL

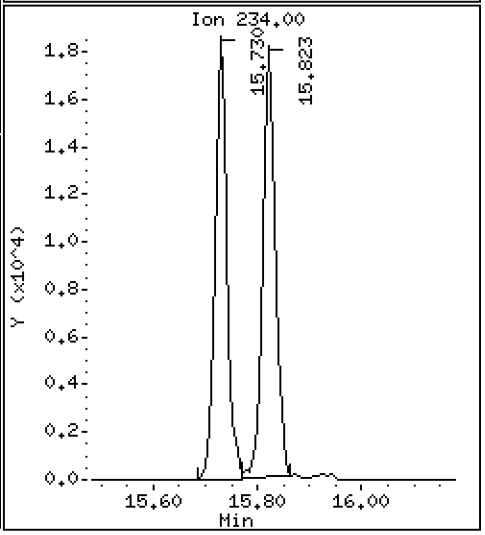


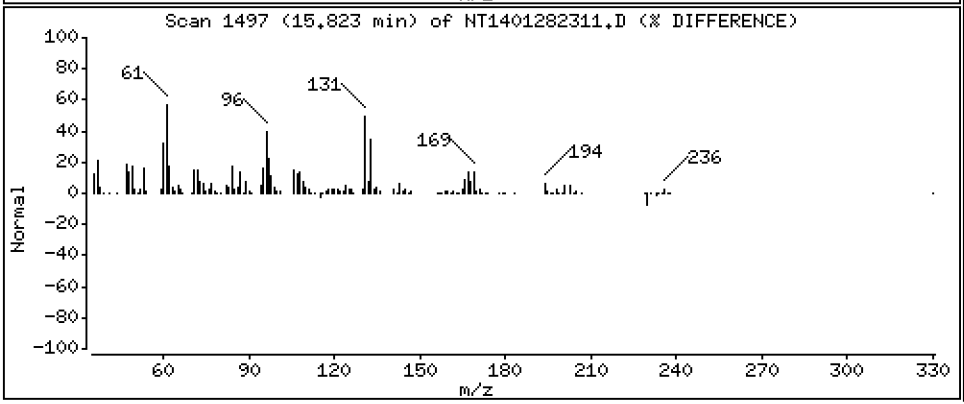












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Smp Info : SLA0338-SCV1
Misc Info :
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Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.736	6.744	(0.750)	142455	8.17640	8.176
$	2 Phenol-d5	99	8.328	8.328	(0.928)	176728	7.72018	7.720
	3 Phenol	94	8.351	8.351	(0.930)	107396	3.82486	3.825
$	5 2-Chlorophenol-d4	132	8.606	8.614	(0.959)	166820	7.53435	7.534
	4 Bis(2-Chloroethyl)ether	93	8.521	8.529	(0.949)	85917	5.32016	5.320
	6 2-Chlorophenol	128	8.637	8.637	(0.962)	96403	4.13501	4.135
	7 1,3-Dichlorobenzene	146	8.915	8.915	(0.993)	121707	4.67506	4.675
*	8 1,4-Dichlorobenzene-d4	152	8.977	8.978	(1.000)	64868	4.00000	
	9 1,4-Dichlorobenzene	146	9.009	9.009	(1.003)	122324	4.65035	4.650
$	10 1,2-Dichlorobenzene-d4	152	9.342	9.342	(1.041)	74985	4.77182	4.772
	12 1,2-Dichlorobenzene	146	9.366	9.366	(1.043)	112526	4.35068	4.351
	11 Benzyl alcohol	108	9.249	9.249	(1.030)	61126	4.41562	4.416
	14 2,2'-oxybis(1-Chloropropane)	121	9.560	9.560	(1.065)	36046	4.97722	4.977
	13 2-Methylphenol	108	9.474	9.474	(1.055)	71205	3.30269	3.303
	17 Hexachloroethane	117	9.963	9.963	(1.110)	71298	4.49319	4.493
	16 N-Nitroso-di-n-propylamine	70	9.816	9.808	(1.093)	90956	4.83477	4.835
	15 4-Methylphenol	108	9.746	9.746	(1.086)	83388	3.42678	3.427
$	18 Nitrobenzene-d5	82	10.072	10.072	(0.878)	179644	5.28207	5.282
	19 Nitrobenzene	77	10.111	10.111	(0.881)	162836	4.91275	4.913
	20 Isophorone	82	10.561	10.561	(0.920)	247148	6.59284	6.593
	21 2-Nitrophenol	139	10.739	10.747	(0.936)	52653	4.13380	4.134
	22 2,4-Dimethylphenol	107	10.793	10.794	(0.941)	101570	3.03442	3.034
	23 Bis(2-Chloroethoxy)methane	93	10.995	11.003	(0.958)	103282	5.45389	5.454
	24 Benzoic acid	105	10.949	10.887	(0.954)	134100	6.66881	6.669
	25 2,4-Dichlorophenol	162	11.197	11.197	(0.976)	82473	3.99695	3.997
	26 1,2,4-Trichlorobenzene	180	11.390	11.390	(0.993)	104913	4.47625	4.476
*	27 Naphthalene-d8	136	11.475	11.475	(1.000)	237703	4.00000	
	28 Naphthalene	128	11.514	11.514	(1.003)	287523	4.80744	4.807
	29 4-Chloroaniline	127	11.645	11.645	(1.015)	89314	3.54401	3.544
	30 Hexachlorobutadiene	225	11.884	11.892	(1.036)	86503	4.67468	4.675
	31 4-Chloro-3-methylphenol	107	12.604	12.604	(1.098)	110572	3.94303	3.943
	32 2-Methylnaphthalene	142	12.914	12.914	(1.125)	212414	4.35655	4.357
	33 Hexachlorocyclopentadiene	237	13.386	13.386	(0.887)	94894	4.63684	4.637
	34 2,4,6-Trichlorophenol	196	13.533	13.533	(0.896)	66467	3.71023	3.710

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	35	2,4,5-Trichlorophenol	196	13.602	13.610	(0.901)	71753	3.61565	3.616
$	36	2-Fluorobiphenyl	172	13.703	13.703	(0.908)	260445	5.01878	5.019
	37	2-Chloronaphthalene	162	13.912	13.912	(0.922)	203080	4.70365	4.704
	38	2-Nitroaniline	65	14.160	14.160	(0.938)	114202	4.50892	4.509
	39	Dimethylphthalate	163	14.608	14.601	(0.968)	272366	4.87524	4.875
	40	Acenaphthylene	152	14.779	14.779	(0.979)	317280	4.69456	4.695
	41	2,6-Dinitrotoluene	165	14.740	14.740	(0.976)	59026	4.60306	4.603
*	42	Acenaphthene-d10	164	15.096	15.096	(1.000)	145815	4.00000	
	43	3-Nitroaniline	138	15.019	15.011	(0.995)	55408	4.47552	4.476
	44	Acenaphthene	153	15.166	15.158	(1.005)	220685	4.82742	4.827
	45	2,4-Dinitrophenol	184	15.227	15.227	(1.009)	26546	2.10608	2.106
	46	Dibenzofuran	168	15.490	15.490	(1.026)	301624	4.55314	4.553
	47	4-Nitrophenol	109	15.328	15.328	(1.015)	93172	3.65684	3.657
	48	2,4-Dinitrotoluene	165	15.544	15.544	(1.030)	76743	4.31208	4.312
	50	Diethylphthalate	149	16.062	16.062	(1.064)	402237	4.95468	4.955
	49	Fluorene	166	16.201	16.202	(1.073)	405552	4.72437	4.724
	51	4-Chlorophenyl-phenylether	204	16.194	16.202	(1.073)	209803	4.48351	4.484
	52	4-Nitroaniline	138	16.279	16.271	(1.078)	66232	4.50523	4.505
	53	4,6-Dinitro-2-methylphenol	198	16.379	16.379	(0.903)	57690	3.42165	3.422
	54	N-Nitrosodiphenylamine	169	16.441	16.441	(0.907)	218170	4.52786	4.528
$	55	2,4,6-Tribromophenol	330	16.734	16.741	(1.108)	96224	7.86038	7.860
	56	4-Bromophenyl-phenylether	248	17.204	17.204	(0.949)	102800	4.57711	4.577
	57	Hexachlorobenzene	284	17.513	17.513	(0.966)	114130	4.45289	4.453
	58	Pentachlorophenol	266	17.869	17.869	(0.985)	48355	3.43887	3.439
*	59	Phenanthrene-d10	188	18.132	18.132	(1.000)	284750	4.00000	
	60	Phenanthrene	178	18.179	18.179	(1.003)	349868	4.55376	4.554
	61	Anthracene	178	18.271	18.279	(1.008)	298207	4.06199	4.062
	62	Carbazole	167	18.596	18.604	(1.026)	295557	4.38432	4.384
	63	Di-n-butylphthalate	149	19.409	19.409	(1.070)	517154	4.94804	4.948
	64	Fluoranthene	202	20.569	20.569	(0.887)	410997	4.75515	4.755
	65	Pyrene	202	20.995	20.995	(0.906)	403045	4.70186	4.702
$	66	Terphenyl-d14	244	21.281	21.289	(0.918)	360406	5.00371	5.004
	67	Butylbenzylphthalate	149	22.210	22.210	(0.958)	227643	4.84394	4.844
	68	Benzo(a)anthracene	228	23.155	23.155	(0.999)	363082	4.57076	4.571
*	69	Chrysene-d12	240	23.186	23.186	(1.000)	217792	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.116	23.108	(0.997)	296415	8.22577	8.226
	71	Chrysene	228	23.232	23.232	(1.002)	351735	4.46577	4.466
	72	bis(2-Ethylhexyl)phthalate	149	23.240	23.240	(0.960)	327626	4.82272	4.823
*	134	Di-n-octylphthalate-d4	153	24.215	24.215	(1.000)	398967	4.00000	
	73	Di-n-octylphthalate	149	24.223	24.231	(1.000)	487047	4.83491	4.835
	74	Benzo(b)fluoranthene	252	25.021	25.021	(0.971)	328122	4.73403	4.734
	75	Benzo(k)fluoranthene	252	25.059	25.059	(0.972)	311305	4.38699	4.387
	76	Benzo(a)pyrene	252	25.663	25.648	(0.996)	275946	4.65954	4.660
*	77	Perylene-d12	264	25.772	25.772	(1.000)	197244	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.367	28.367	(1.101)	346858	4.63593	4.636
	79	Dibenzo(a,h)anthracene	278	28.375	28.367	(1.101)	287062	4.45522	4.455
	80	Benzo(g,h,i)perylene	276	29.128	29.105	(1.130)	258055	4.65739	4.657
	90	N-Nitrosodimethylamine	74	4.550	4.558	(0.507)	51870	4.93189	4.932
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	20.801	20.801	(0.897)	299598	8.13487	8.135
	103	Pyridine	79	4.574	4.597	(0.509)	82576	2.72310	2.723
	105	1-methylnaphthalene	142	13.138	13.138	(1.145)	207286	4.37784	4.378
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.518	16.518	(1.094)	561058	4.80071	4.801
	187	Total Benzofluoranthenes	252	25.021	25.021	(0.971)	613592	9.09346	9.093

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	15.823	15.830	(1.048)	60195	3.16050	3.160

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282311.D
Lab Smp Id: SLA0338-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	64868	22.25
27 Naphthalene-d8	202004	101002	404008	237703	17.67
42 Acenaphthene-d10	124451	62226	248902	145815	17.17
59 Phenanthrene-d10	239860	119930	479720	284750	18.72
69 Chrysene-d12	191274	95637	382548	217792	13.86
134 Di-n-octylphthala	341876	170938	683752	398967	16.70
77 Perylene-d12	162367	81184	324734	197244	21.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.98	-0.09
27 Naphthalene-d8	11.48	10.98	11.98	11.48	0.00
42 Acenaphthene-d10	15.10	14.60	15.60	15.10	-0.05
59 Phenanthrene-d10	18.14	17.64	18.64	18.13	-0.04
69 Chrysene-d12	23.19	22.69	23.69	23.19	-0.03
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	-0.03
77 Perylene-d12	25.77	25.27	26.27	25.77	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282311.D

Lab ID: SLA0338-SCV1
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 21:28

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.949	0.0054	Benzoic acid

RRT check based on Ccal File: NT1401282308.D

On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00072
Laboratory ID: SLA0338-SCV1
Sequence: SLA0338
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	5.0000	3.8	-23.5 *	20.00
bis(2-chloroethyl) ether	5.0000	5.3	6.4	20.00
2-Chlorophenol	5.0000	4.1	-17.3	20.00
1,3-Dichlorobenzene	5.0000	4.7	-6.5	20.00
1,4-Dichlorobenzene	5.0000	4.7	-7.0	20.00
1,2-Dichlorobenzene	5.0000	4.4	-13.0	20.00
Benzyl Alcohol	5.0000	4.4	-11.7	20.00
2,2'-Oxybis(1-chloropropane)	5.0000	5.0	-0.5	20.00
2-Methylphenol	5.0000	3.3	-33.9 *	20.00
Hexachloroethane	5.0000	4.5	-10.1	20.00
N-Nitroso-di-n-Propylamine	5.0000	4.8	-3.3	20.00
4-Methylphenol	5.0000	3.4	-31.5 *	20.00
Nitrobenzene	5.0000	4.9	-1.7	20.00
Isophorone	5.0000	6.6	31.9 *	20.00
2-Nitrophenol	5.0000	4.1	-17.3	20.00
2,4-Dimethylphenol	5.0000	3.0	-39.3 *	20.00
Bis(2-Chloroethoxy)methane	5.0000	5.5	9.1	20.00
2,4-Dichlorophenol	5.0000	4.0	-20.1 *	20.00
1,2,4-Trichlorobenzene	5.0000	4.5	-10.5	20.00
Naphthalene	5.0000	4.8	-3.9	20.00
Benzoic acid	10.000	6.7	-33.3 *	20.00
4-Chloroaniline	5.0000	3.5	-29.1 *	20.00
Hexachlorobutadiene	5.0000	4.7	-6.5	20.00
4-Chloro-3-Methylphenol	5.0000	3.9	-21.1 *	20.00
2-Methylnaphthalene	5.0000	4.4	-12.9	20.00
Hexachlorocyclopentadiene	5.0000	4.6	-7.3	20.00
2,4,6-Trichlorophenol	5.0000	3.7	-25.8 *	20.00
2,4,5-Trichlorophenol	5.0000	3.6	-27.7 *	20.00
2-Chloronaphthalene	5.0000	4.7	-5.9	20.00
2-Nitroaniline	5.0000	4.5	-9.8	20.00
Acenaphthylene	5.0000	4.7	-6.1	20.00
Dimethylphthalate	5.0000	4.9	-2.5	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC **SDG:** 22L0459

Client: Anchor QEA, LLC **Project:** AOC5 MR Phase 1

Calibration: GA00072 **Laboratory ID:** SLA0338-SCV1

Sequence: SLA0338 **Standard ID:** K010066

2,6-Dinitrotoluene	5.0000	4.6	-7.9	20.00
Acenaphthene	5.0000	4.8	-3.5	20.00
3-Nitroaniline	5.0000	4.5	-10.5	20.00
2,4-Dinitrophenol	5.0000	2.1	-57.9 *	20.00
Dibenzofuran	5.0000	4.6	-8.9	20.00
4-Nitrophenol	5.0000	3.7	-26.9 *	20.00
2,4-Dinitrotoluene	5.0000	4.3	-13.8	20.00
Fluorene	5.0000	4.7	-5.5	20.00
4-Chlorophenylphenyl ether	5.0000	4.5	-10.3	20.00
Diethyl phthalate	5.0000	5.0	-0.9	20.00
4-Nitroaniline	5.0000	4.5	-9.9	20.00
4,6-Dinitro-2-methylphenol	5.0000	3.4	-31.6 *	20.00
N-Nitrosodiphenylamine	5.0000	4.5	-9.4	20.00
4-Bromophenyl phenyl ether	5.0000	4.6	-8.5	20.00
Hexachlorobenzene	5.0000	4.5	-10.9	20.00
Pentachlorophenol	5.0000	3.4	-31.2 *	20.00
Phenanthrene	5.0000	4.6	-8.9	20.00
Anthracene	5.0000	4.1	-18.8	20.00
Carbazole	5.0000	4.4	-12.3	20.00
Di-n-Butylphthalate	5.0000	4.9	-1.0	20.00
Fluoranthene	5.0000	4.8	-4.9	20.00
Pyrene	5.0000	4.7	-6.0	20.00
Butylbenzylphthalate	5.0000	4.8	-3.1	20.00
Benzo(a)anthracene	5.0000	4.6	-8.6	20.00
3,3'-Dichlorobenzidine	10.000	8.2	-17.7	20.00
Chrysene	5.0000	4.5	-10.7	20.00
bis(2-Ethylhexyl)phthalate	5.0000	4.8	-3.5	20.00
Di-n-Octylphthalate	5.0000	4.8	-3.3	20.00
Benzofluoranthenes, Total	10.000	9.1	-9.1	20.00
Benzo(a)pyrene	5.0000	4.7	-6.8	20.00
Indeno(1,2,3-cd)pyrene	5.0000	4.6	-7.3	20.00
Dibenzo(a,h)anthracene	5.0000	4.5	-10.9	20.00
Benzo(g,h,i)perylene	5.0000	4.7	-6.9	20.00
1-Methylnaphthalene	5.0000	4.4	-12.4	20.00
2-Fluorophenol	7.5000	8.18	9.0	20.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00072
Laboratory ID: SLA0338-SCV1
Sequence: SLA0338
Standard ID: K010066

Phenol-d5	7.5000	7.72	2.9	20.00
2-Chlorophenol-d4	7.5000	7.53	0.5	20.00
1,2-Dichlorobenzene-d4	5.0000	4.77	-4.6	20.00
Nitrobenzene-d5	5.0000	5.28	5.6	20.00
2-Fluorobiphenyl	5.0000	5.02	0.4	20.00
2,4,6-Tribromophenol	7.5000	7.86	4.8	20.00
p-Terphenyl-d14	5.0000	5.00	0.07	20.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Page 1

Date : 28-JAN-2023 21:28

Client ID:

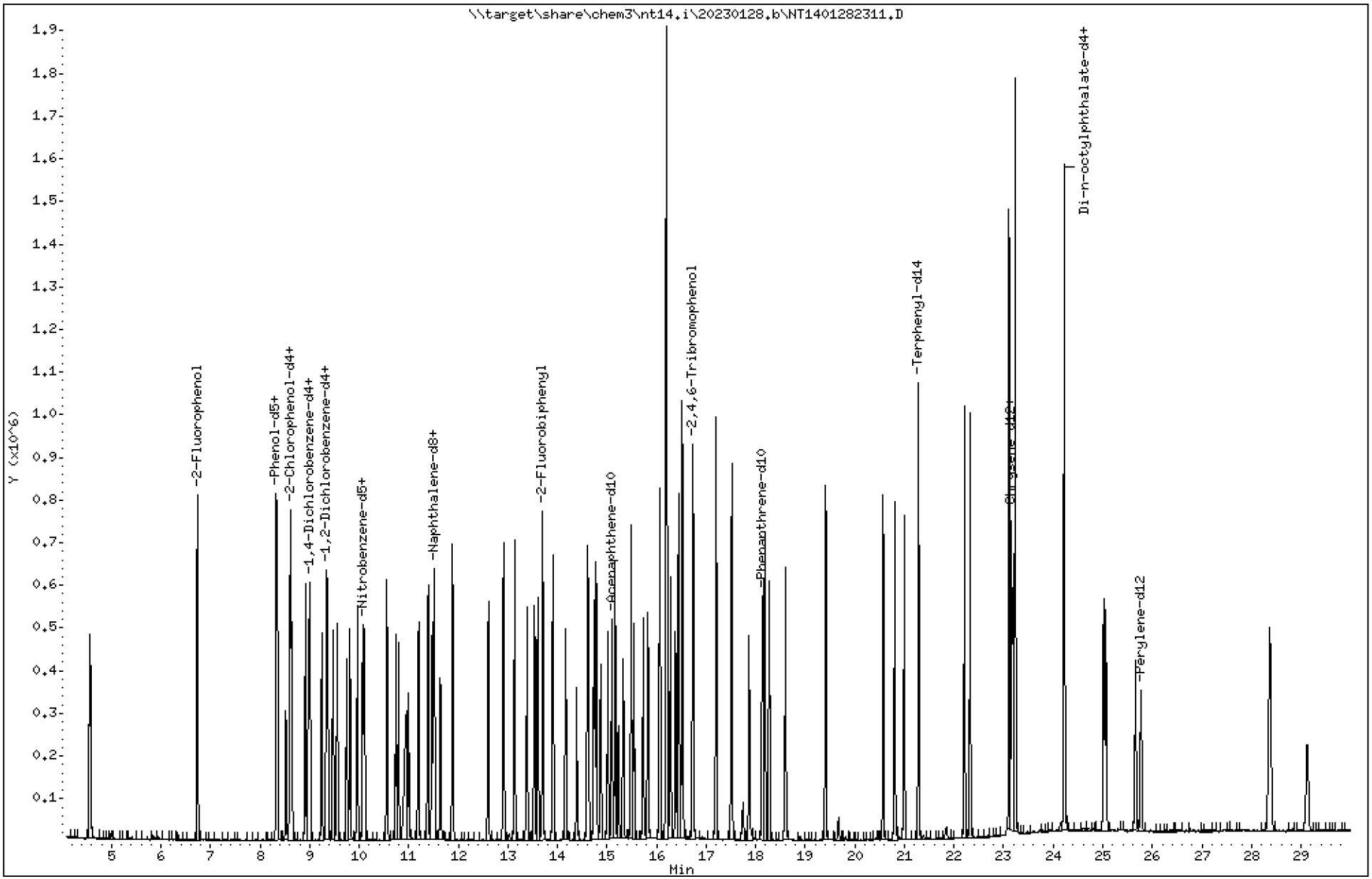
Instrument: nt14.i

Sample Info: SLA0338-SCV1

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

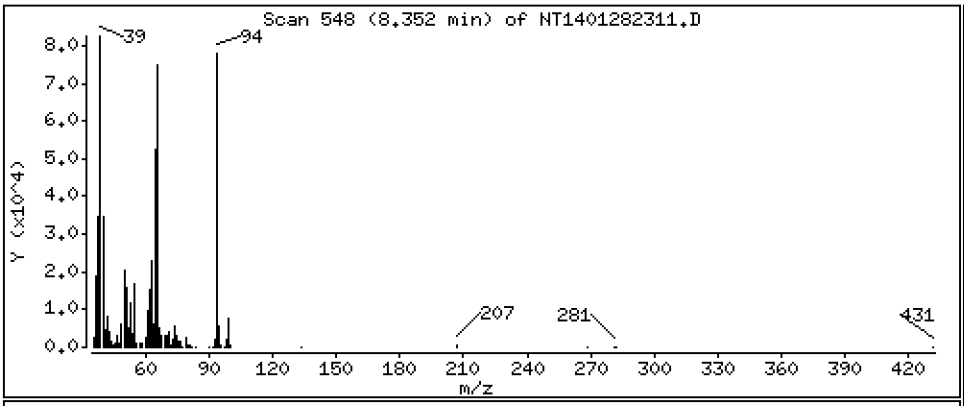
Operator: JGR

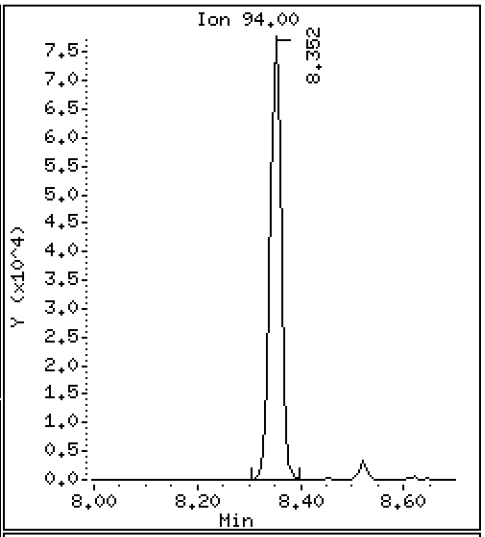
Column phase: ZB-5msi

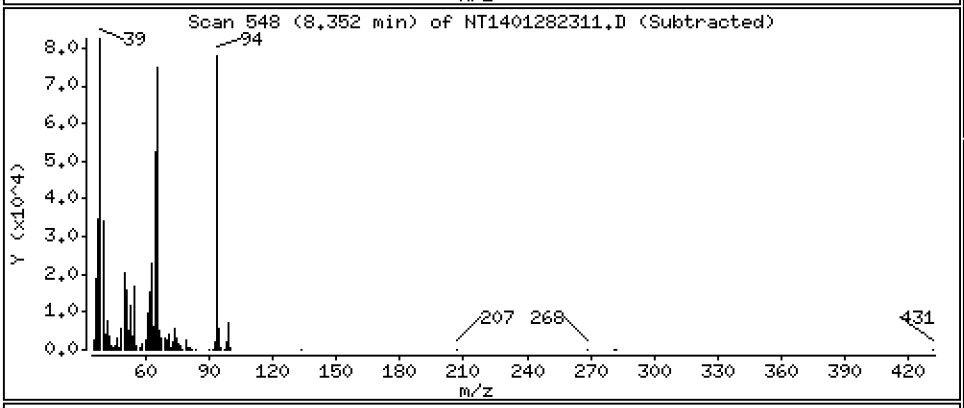
Column diameter: 0.25

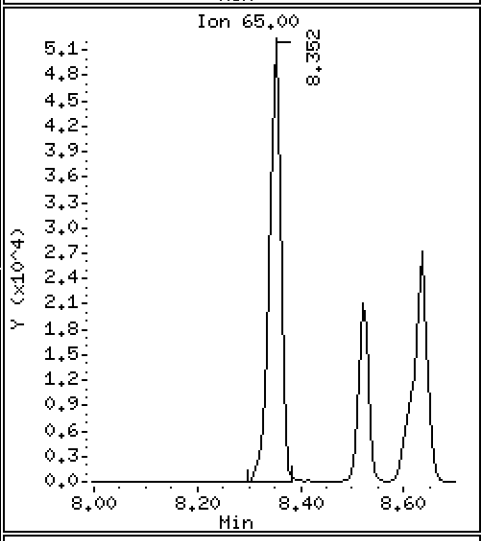
3 Phenol

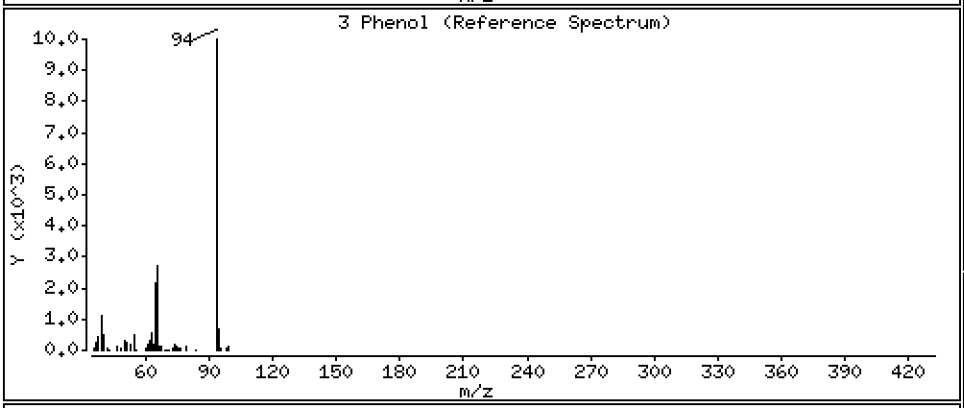
Concentration: 3.825 ug/mL

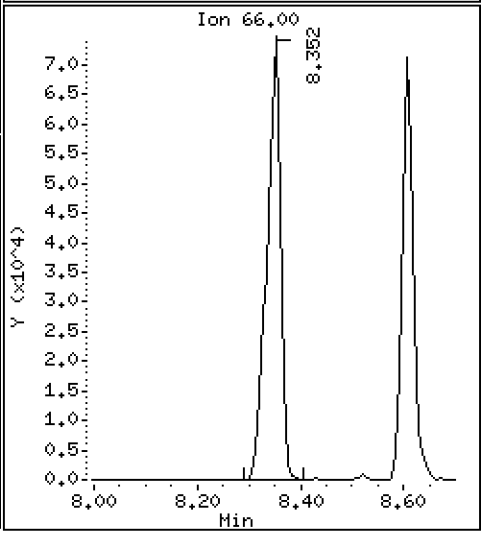


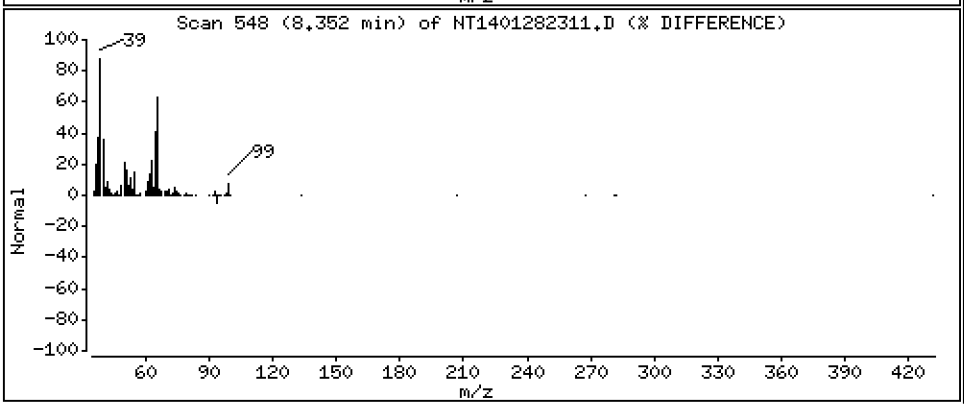












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

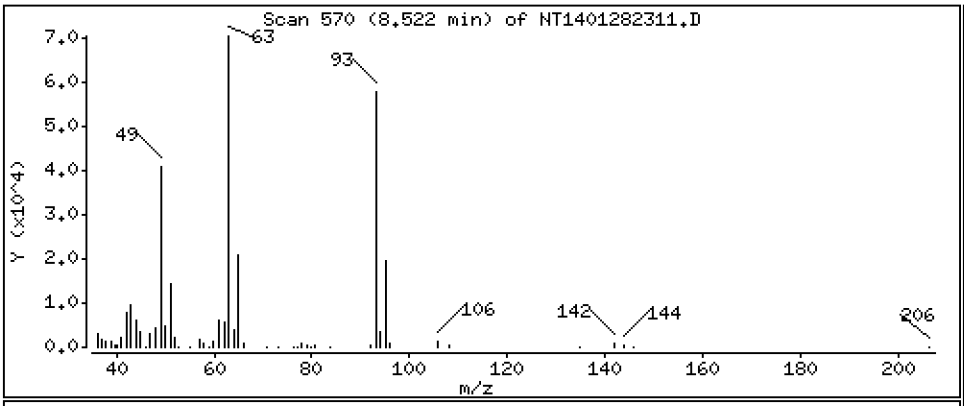
Operator: JGR

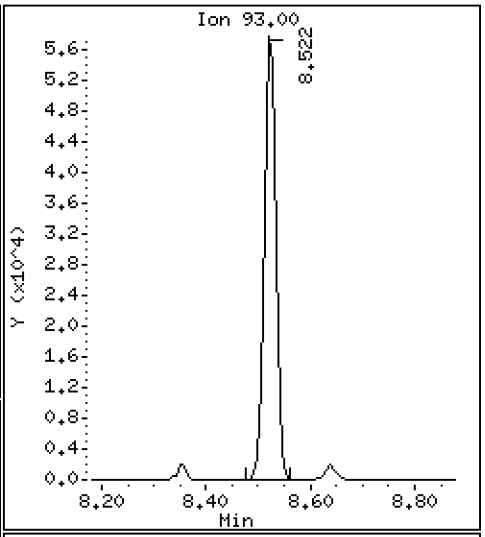
Column phase: ZB-5msi

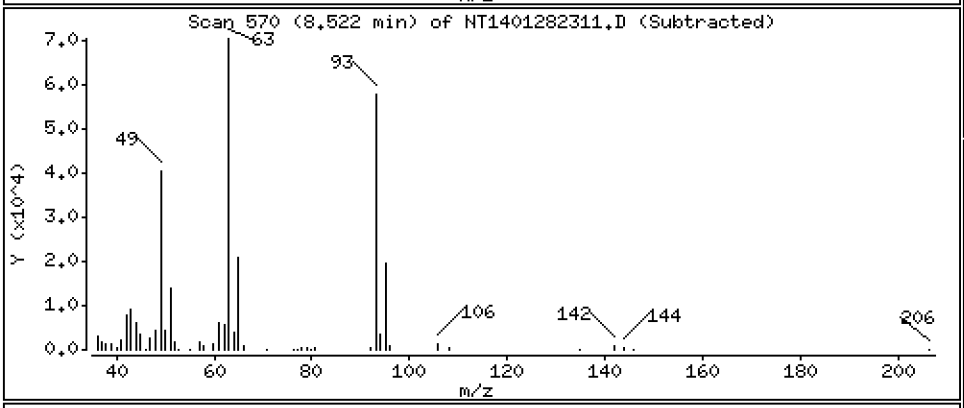
Column diameter: 0.25

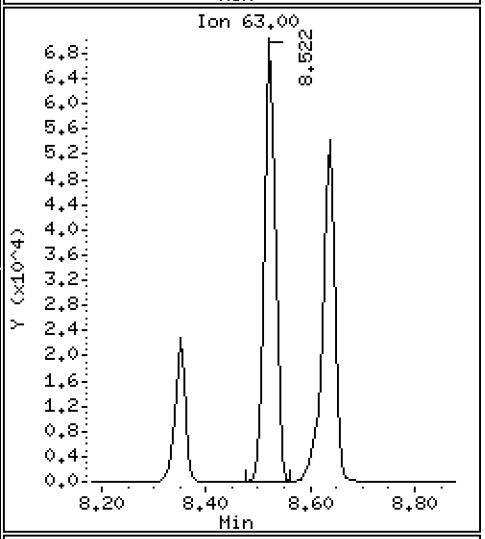
4 Bis(2-Chloroethyl)ether

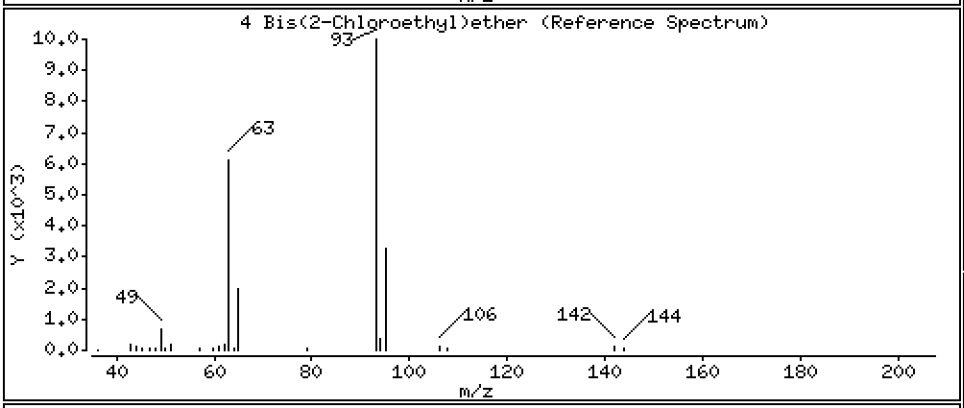
Concentration: 5.320 ug/mL

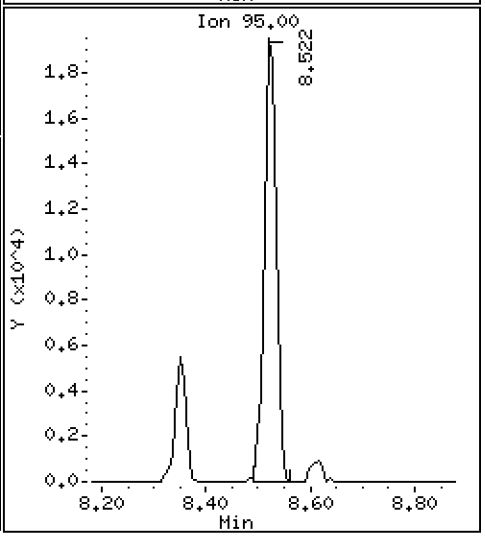


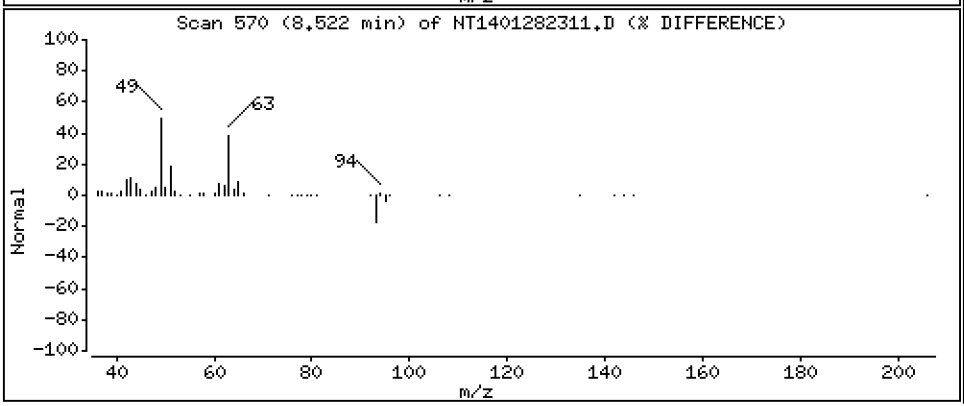












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

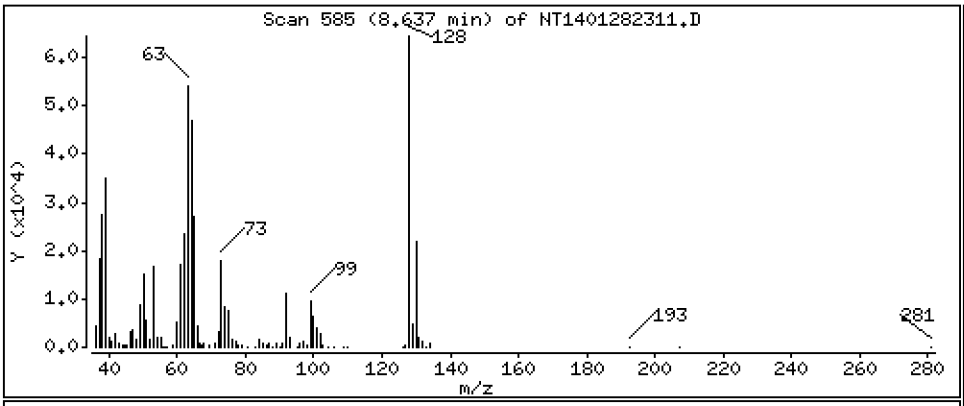
Operator: JGR

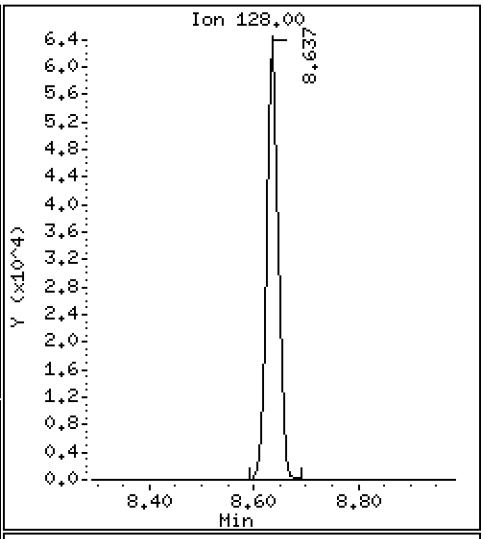
Column phase: ZB-5msi

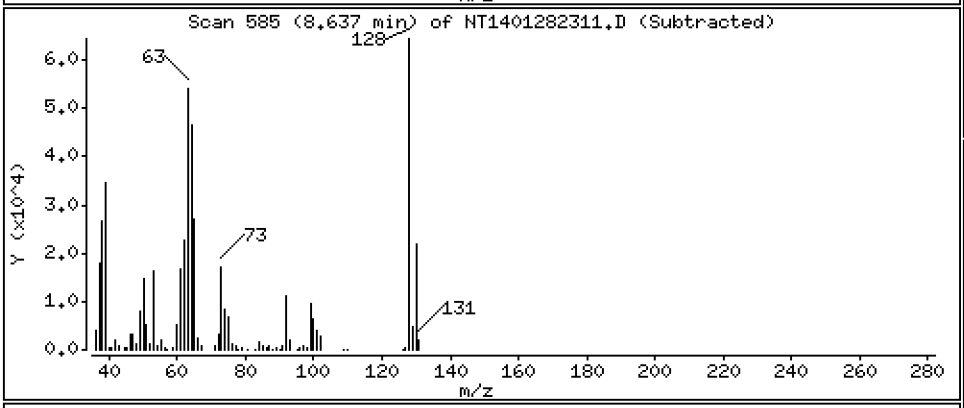
Column diameter: 0.25

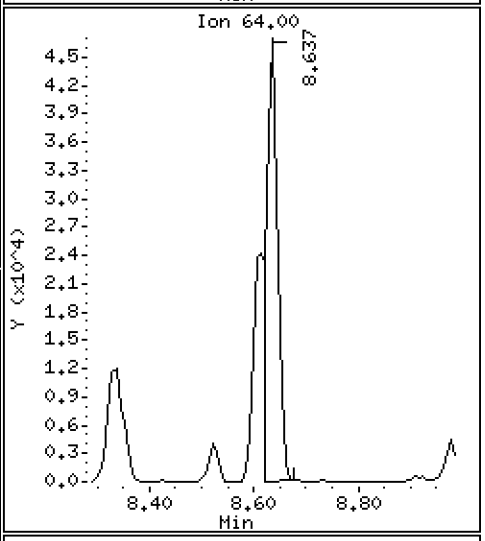
6 2-Chlorophenol

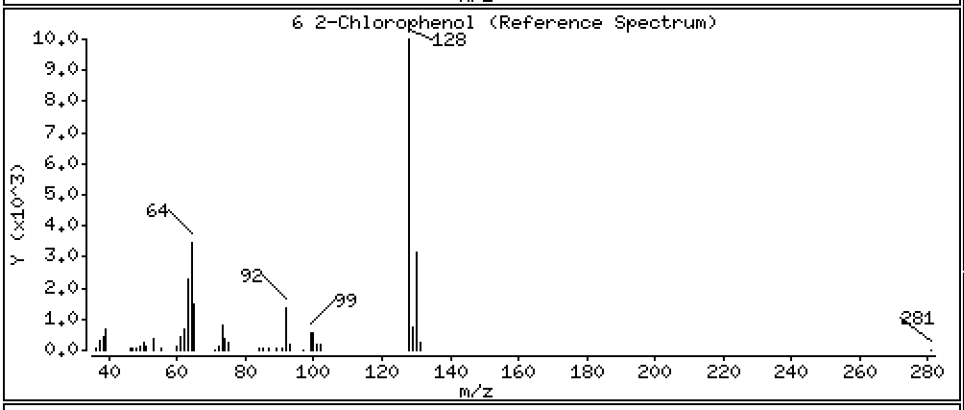
Concentration: 4.135 ug/mL

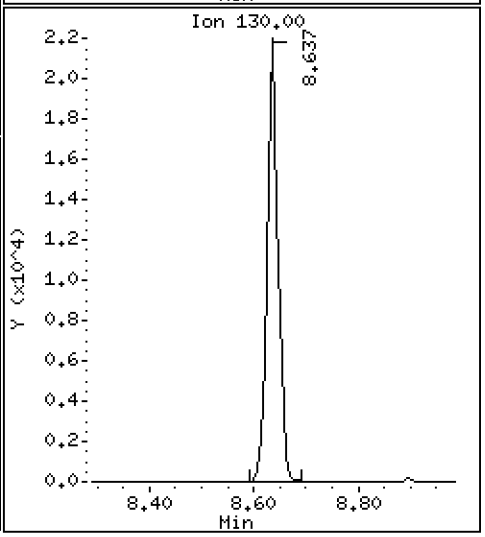


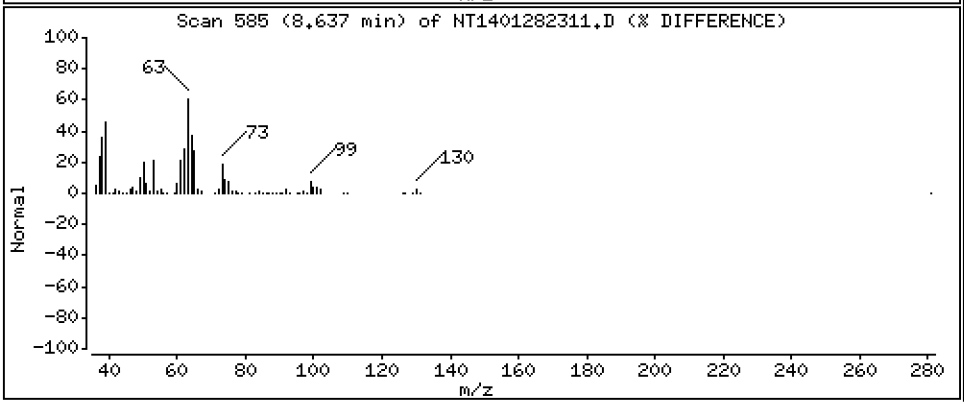












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

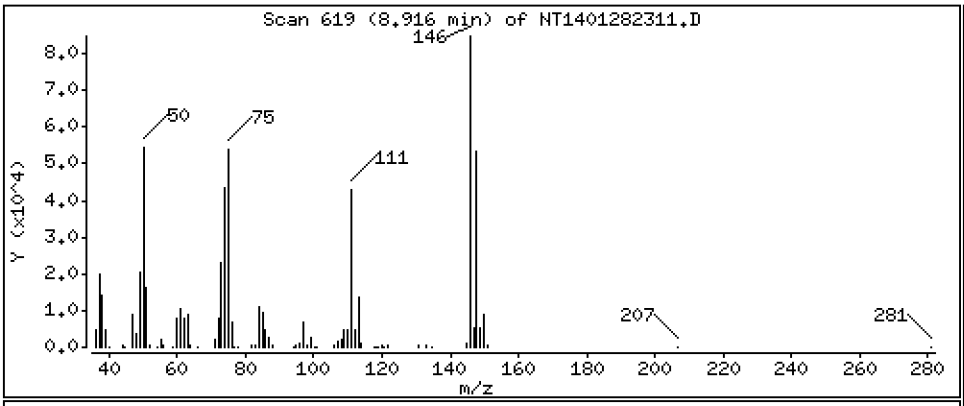
Operator: JGR

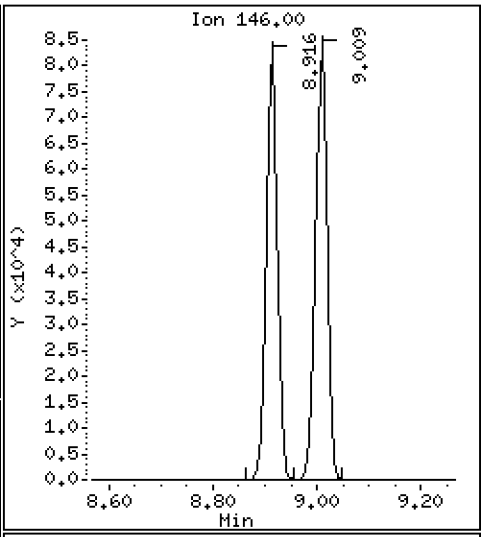
Column phase: ZB-5msi

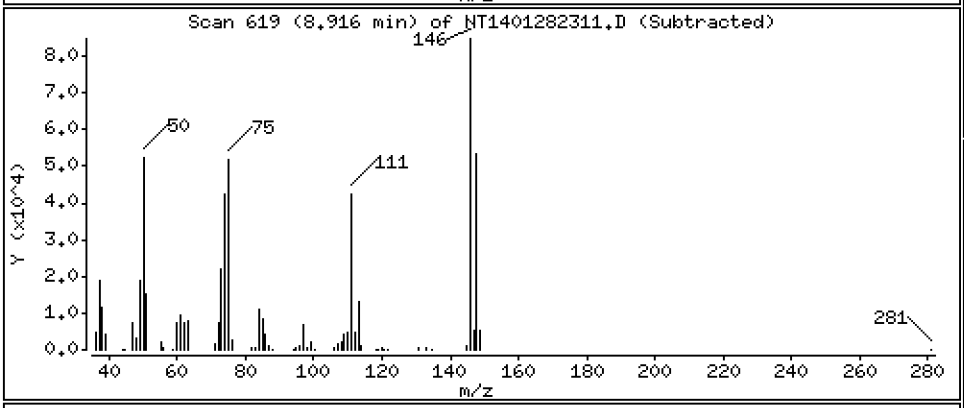
Column diameter: 0.25

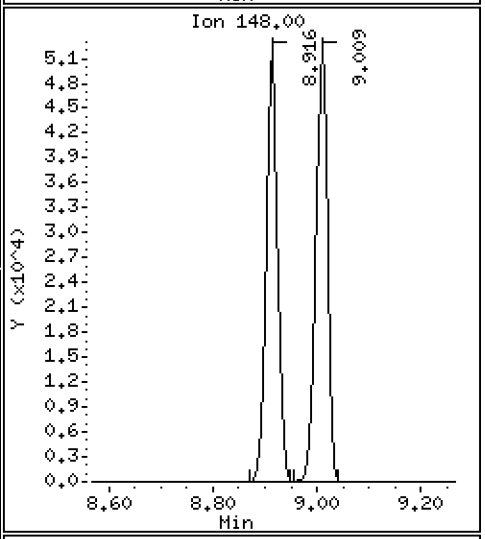
7 1,3-Dichlorobenzene

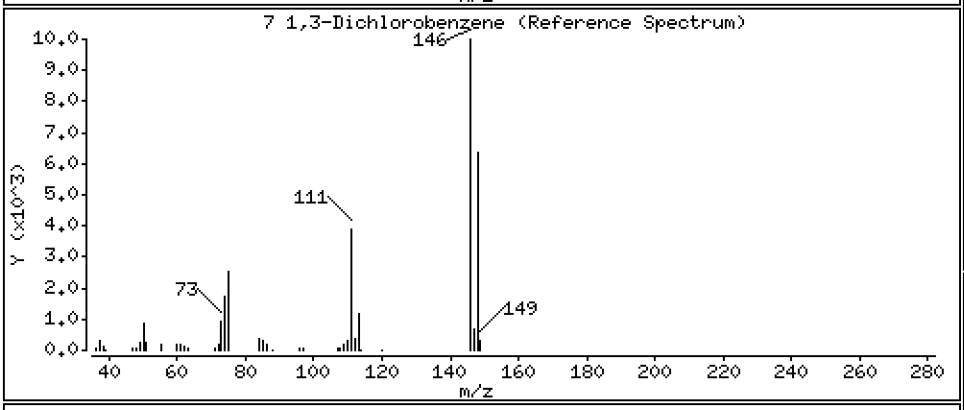
Concentration: 4.675 ug/mL

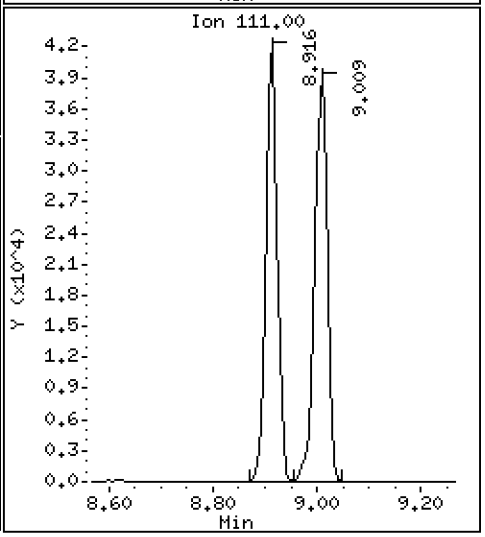


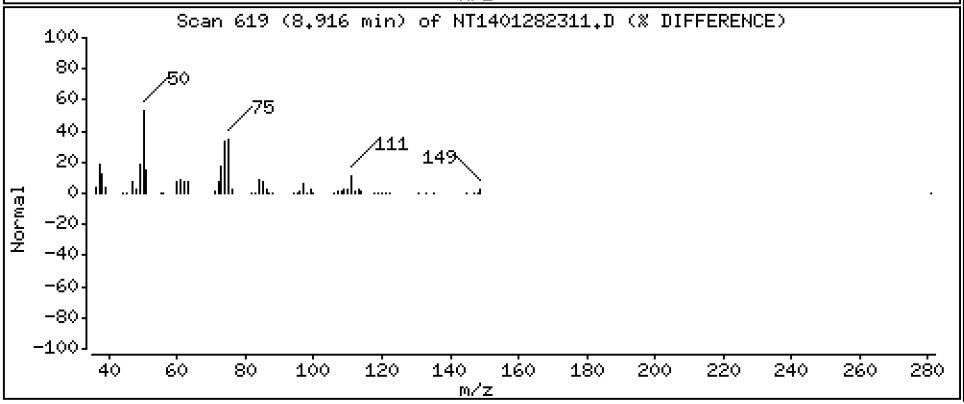












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

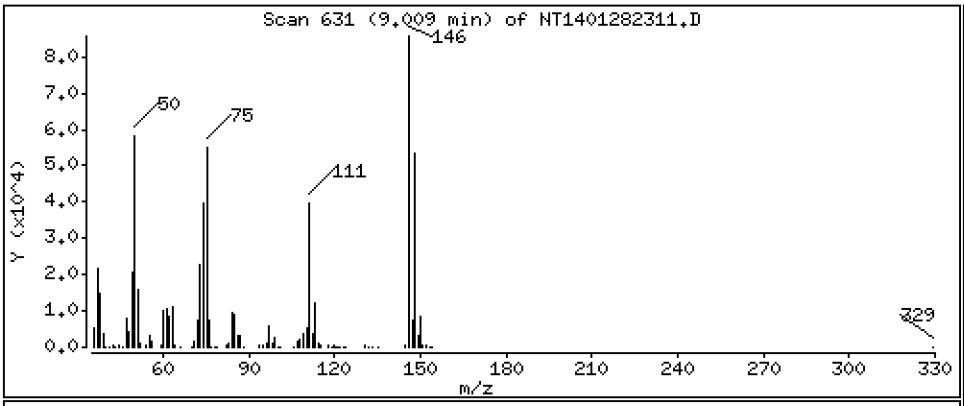
Operator: JGR

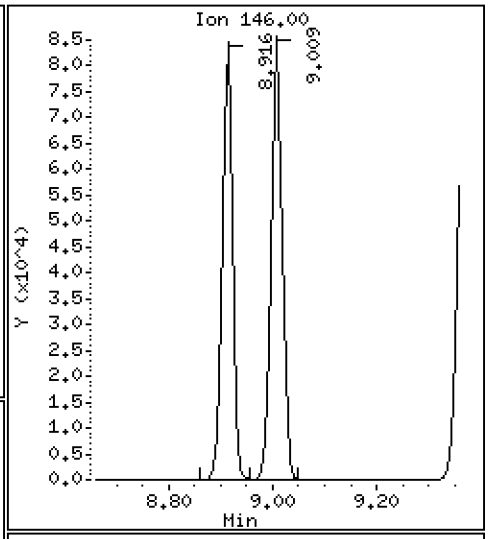
Column phase: ZB-5msi

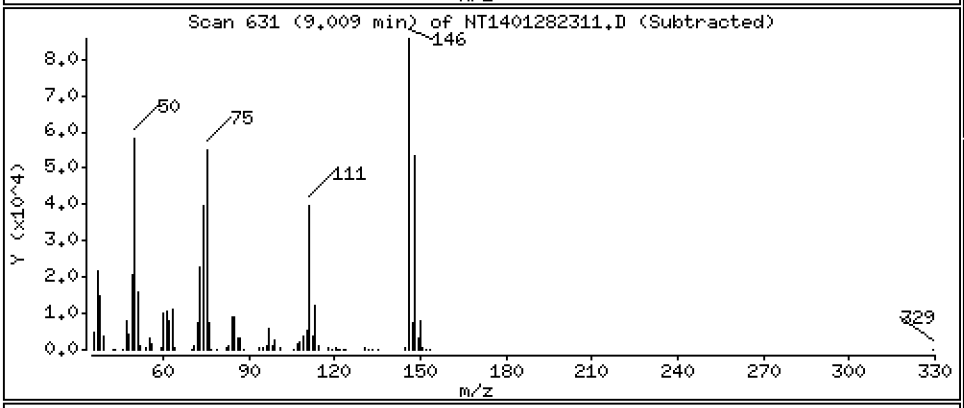
Column diameter: 0.25

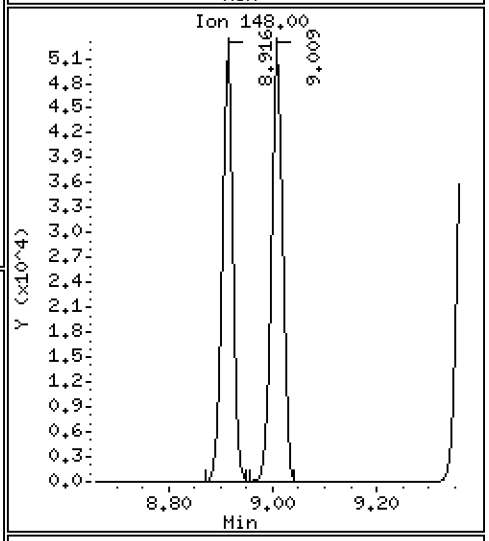
9 1,4-Dichlorobenzene

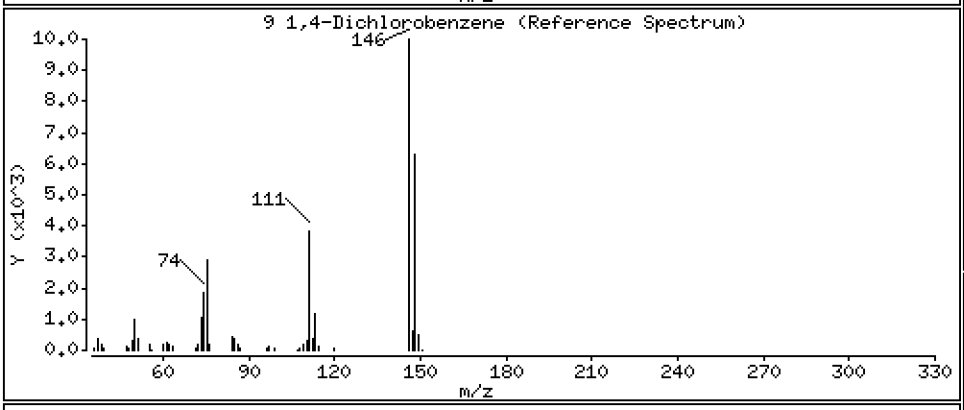
Concentration: 4.650 ug/mL

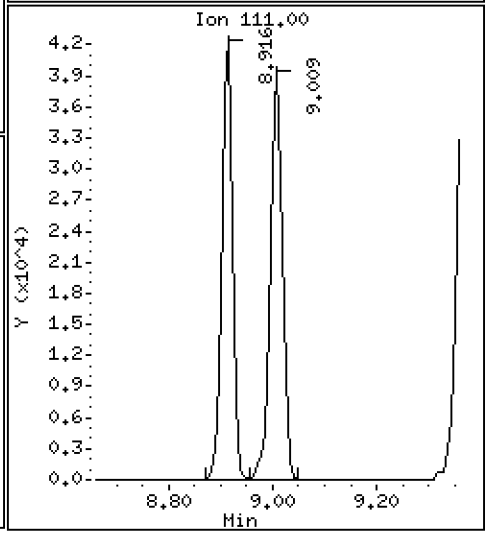


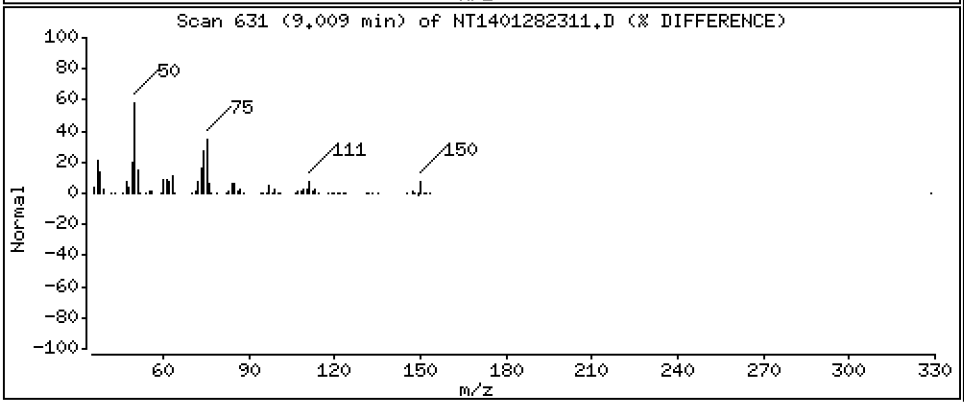












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

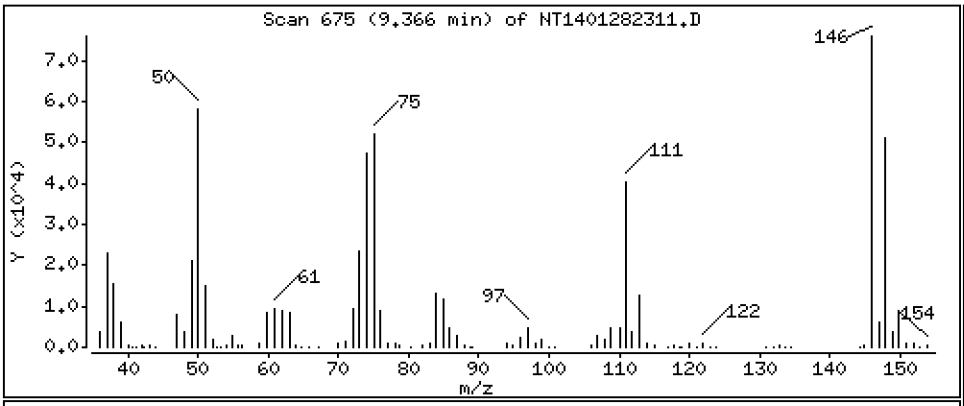
Operator: JGR

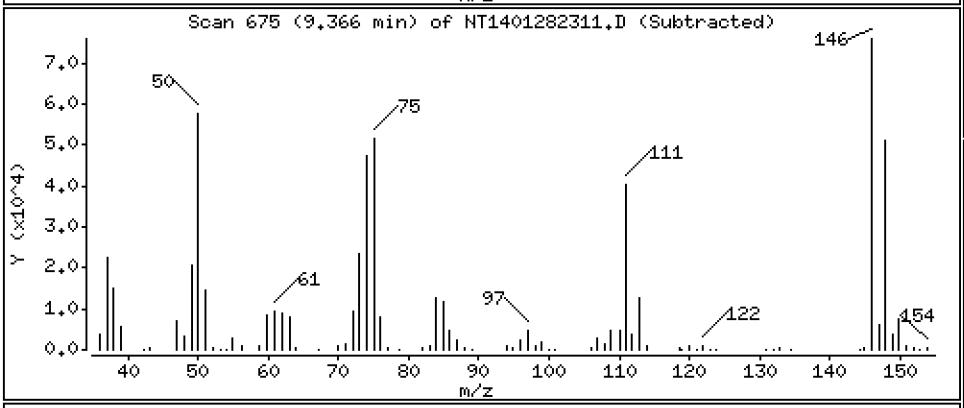
Column phase: ZB-5msi

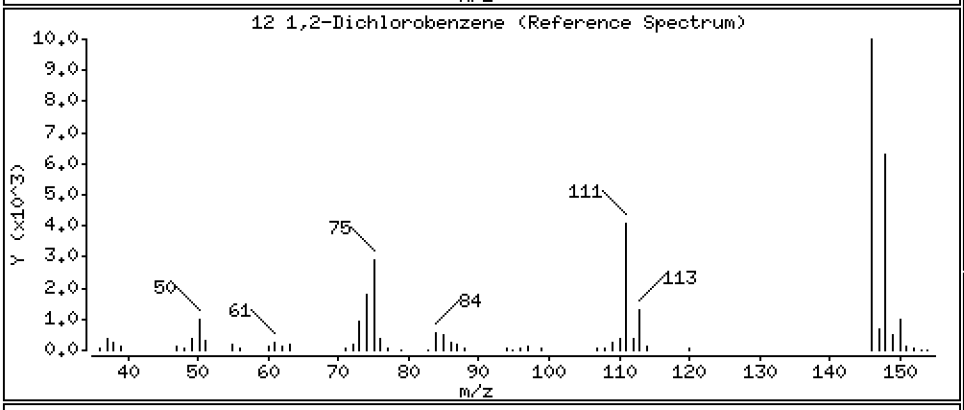
Column diameter: 0.25

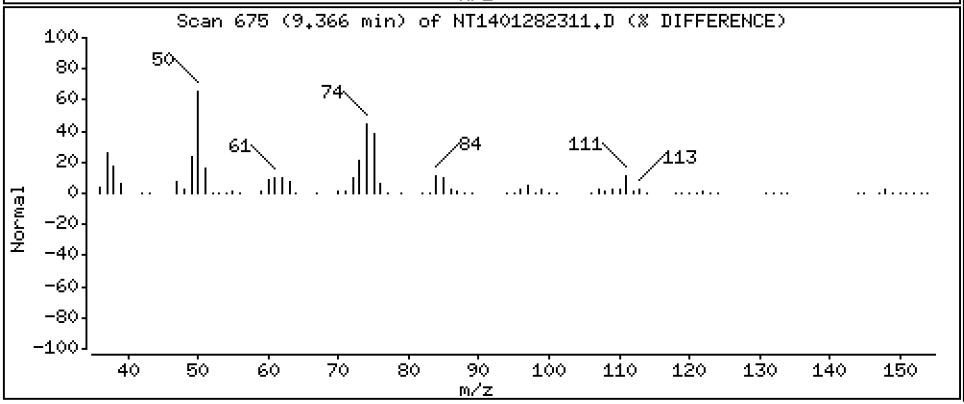
12 1,2-Dichlorobenzene

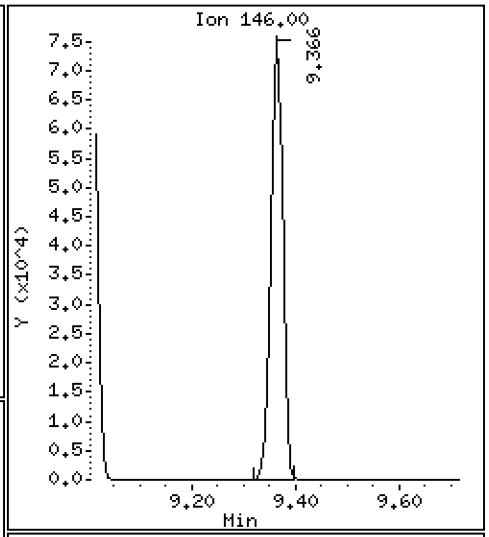
Concentration: 4.351 ug/mL

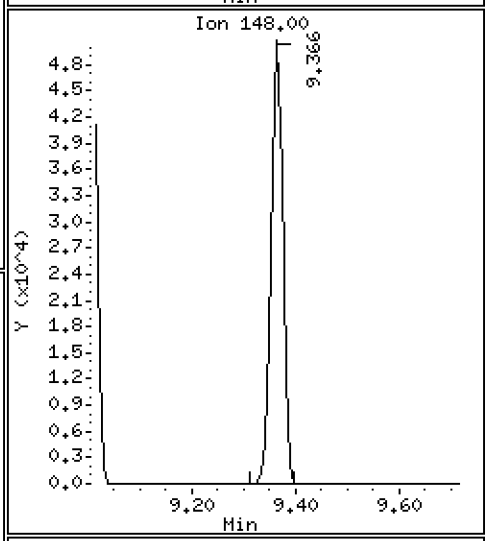


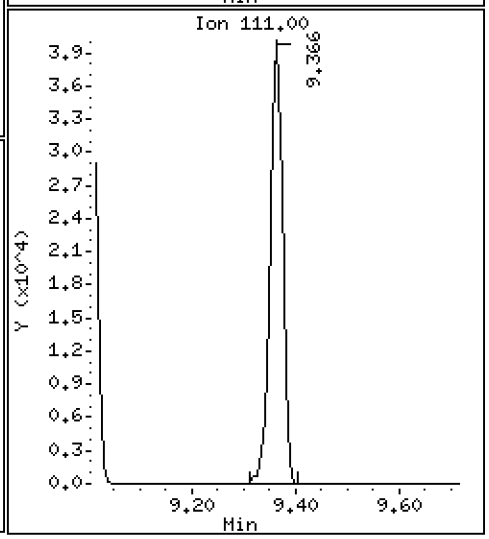












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

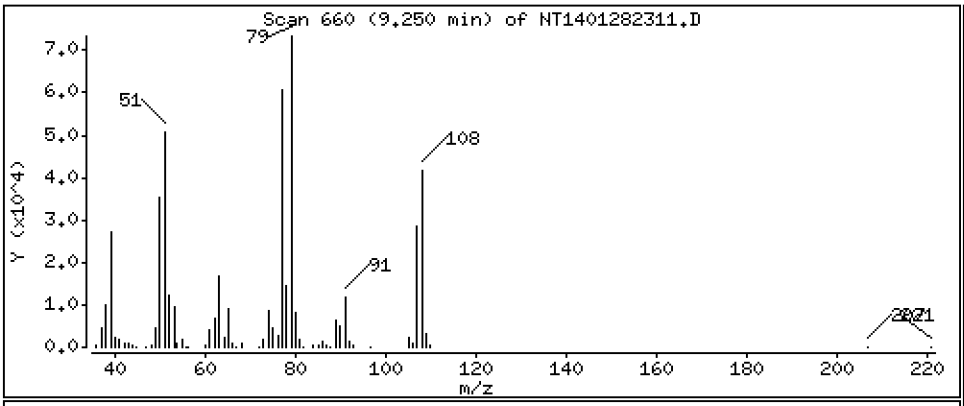
Operator: JGR

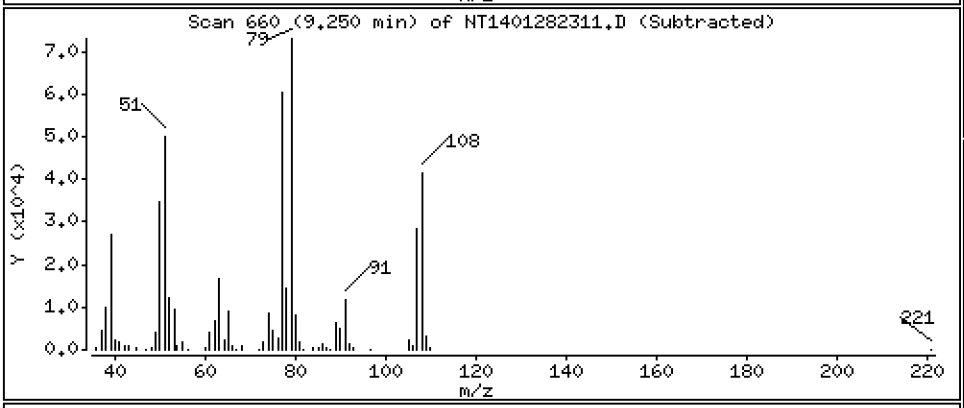
Column phase: ZB-5msi

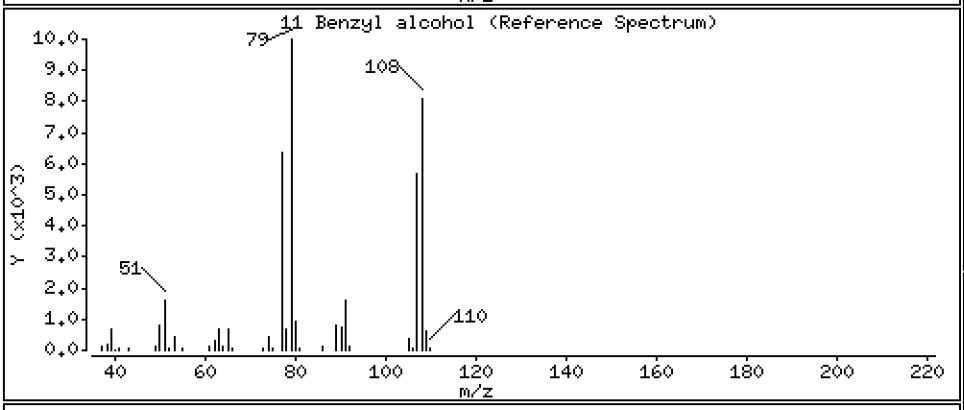
Column diameter: 0.25

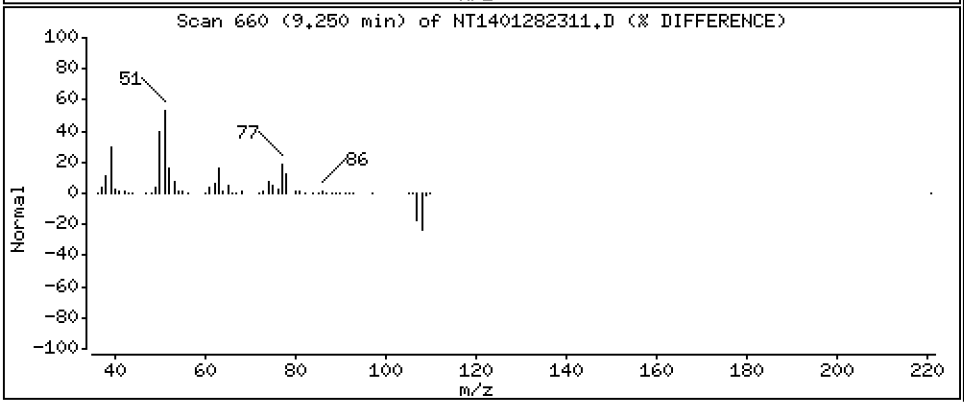
11 Benzyl alcohol

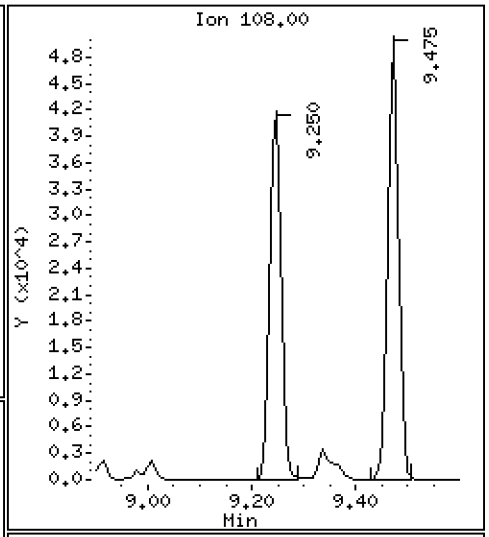
Concentration: 4.416 ug/mL

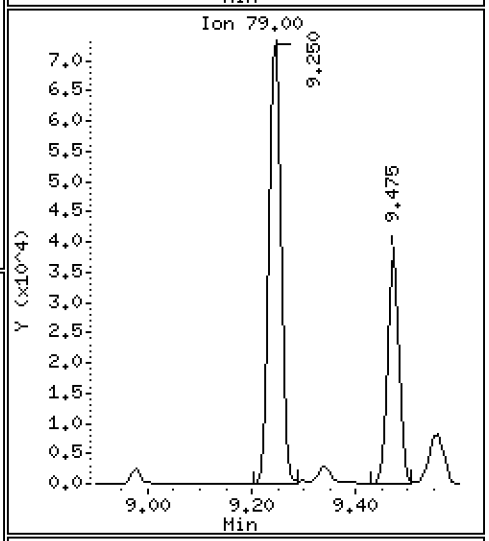


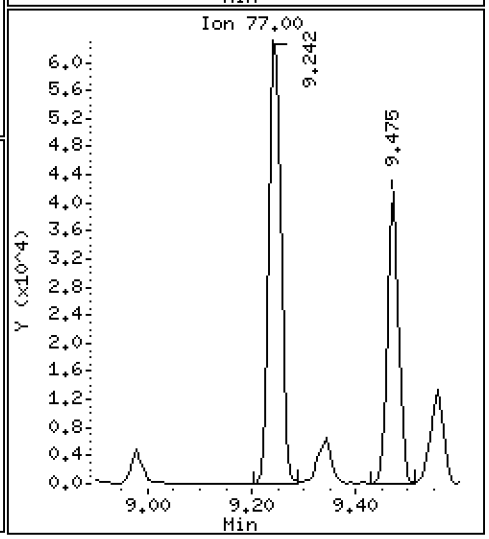












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

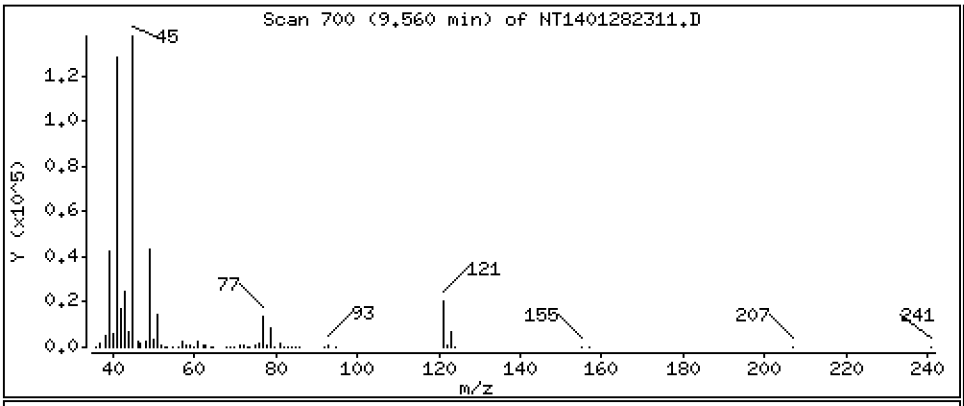
Operator: JGR

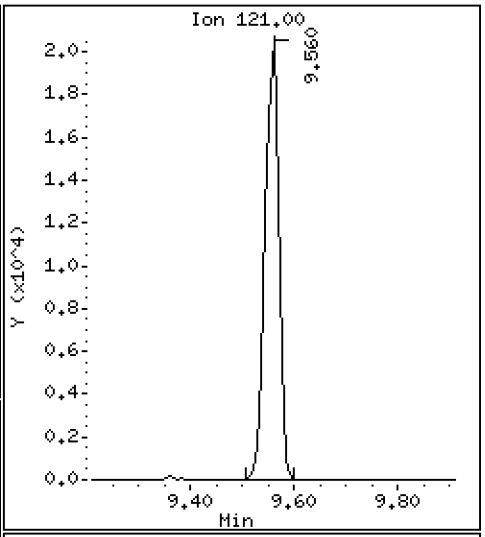
Column phase: ZB-5msi

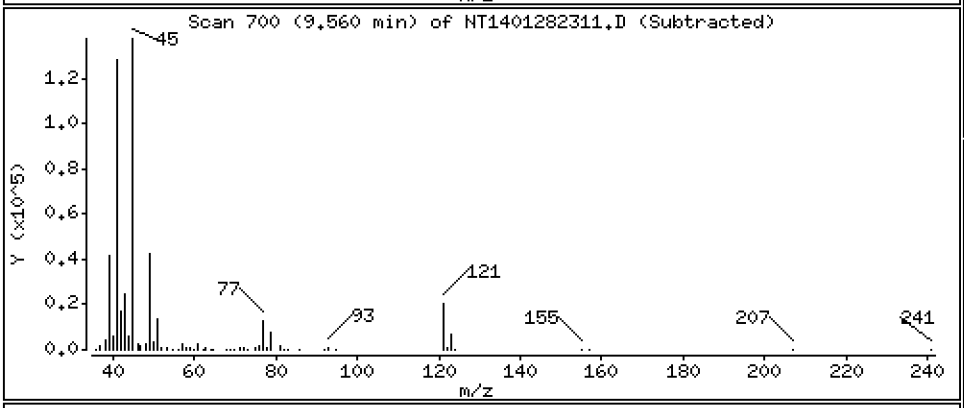
Column diameter: 0.25

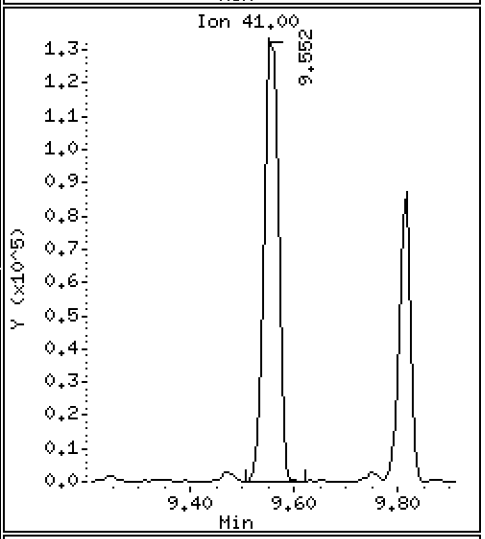
14 2,2'-oxybis(1-Chloropropane)

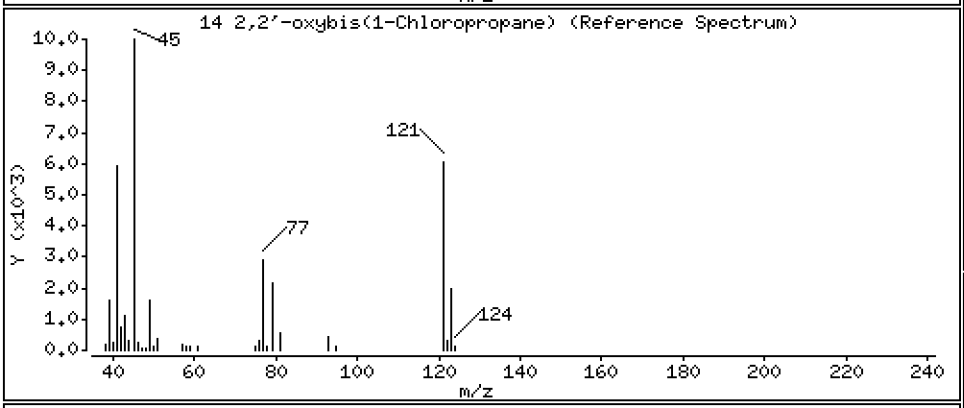
Concentration: 4.977 ug/mL

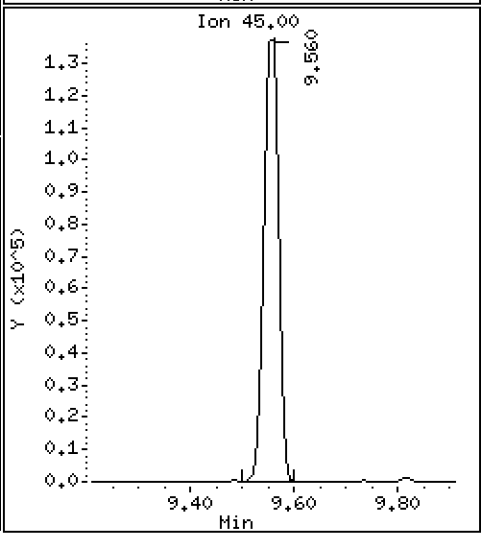


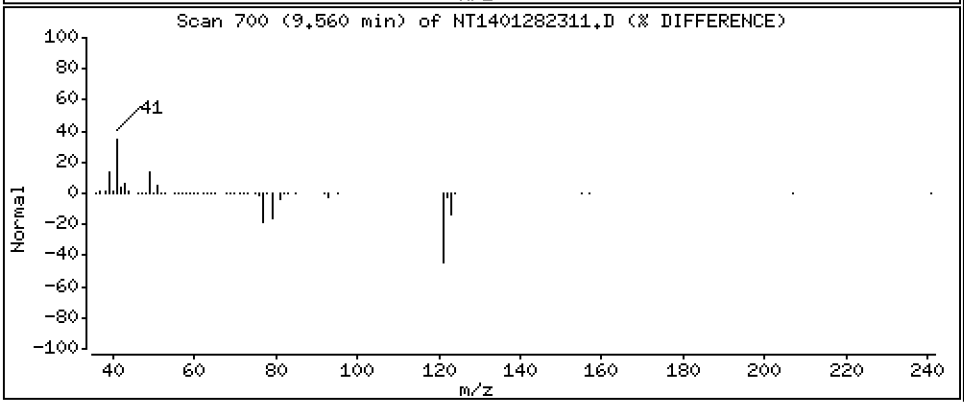












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

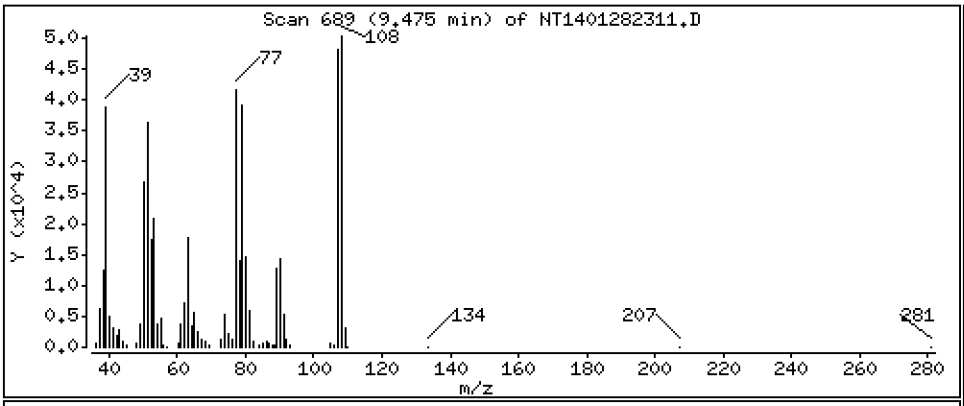
Operator: JGR

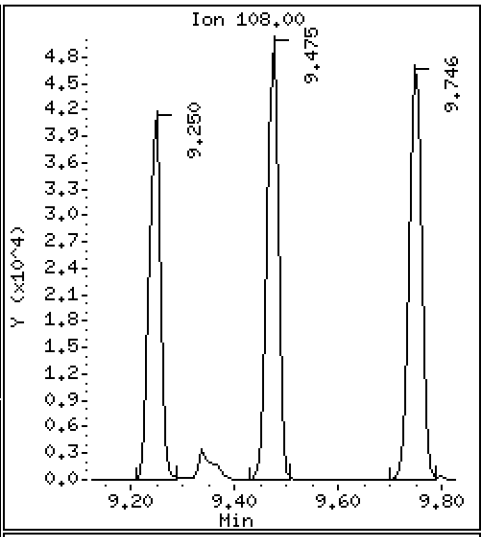
Column phase: ZB-5msi

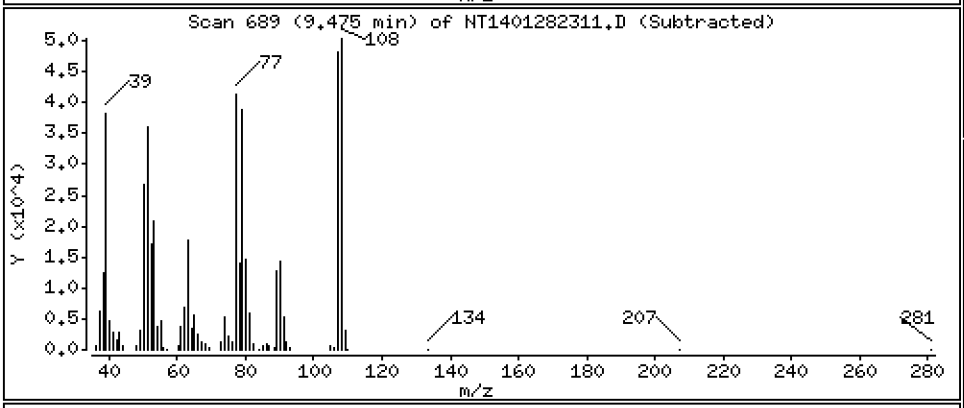
Column diameter: 0.25

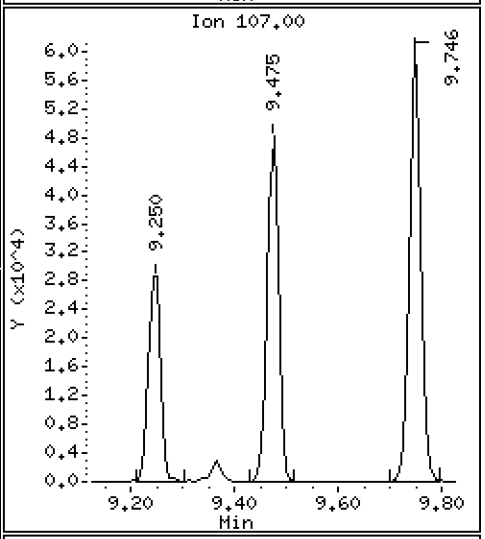
13 2-Methylphenol

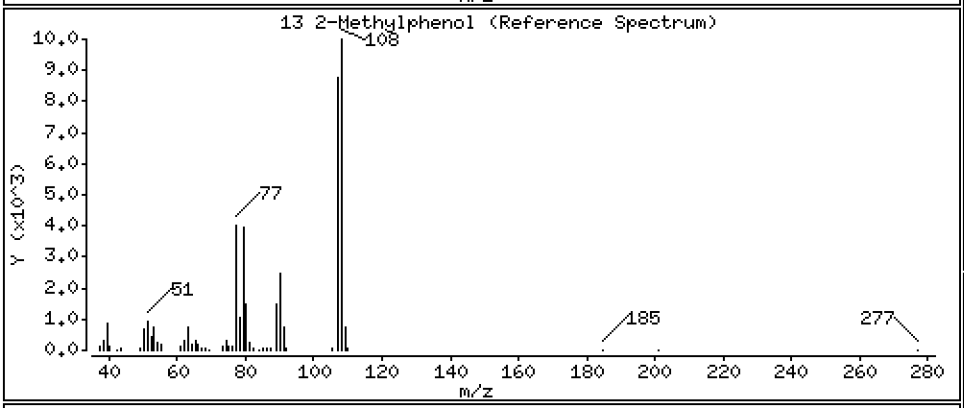
Concentration: 3.303 ug/mL

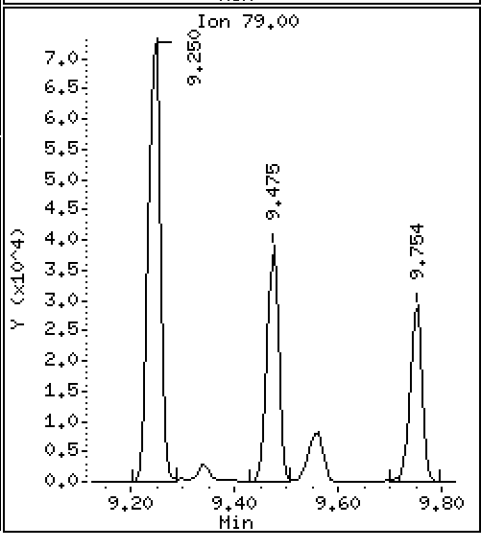


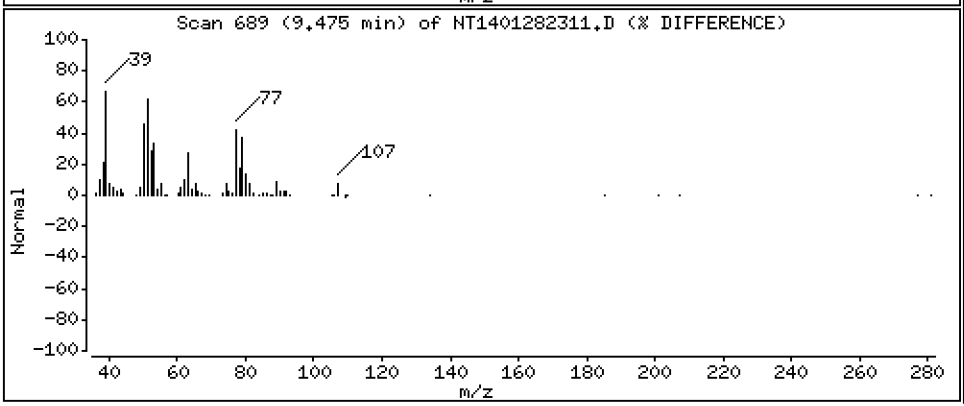












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

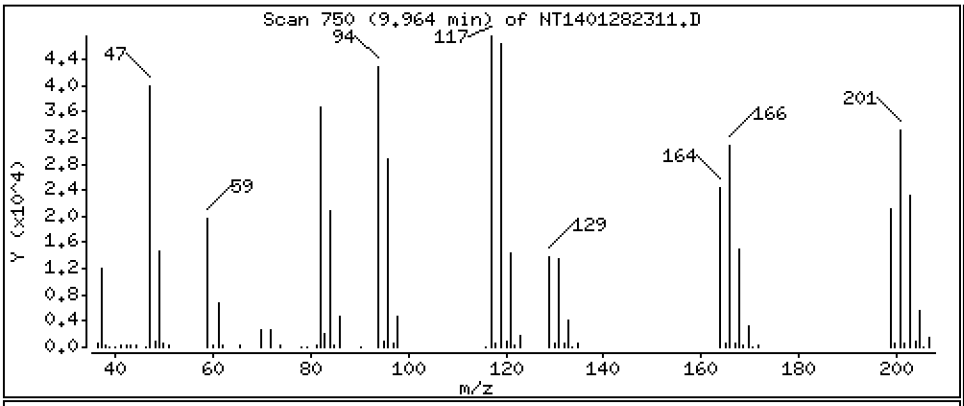
Operator: JGR

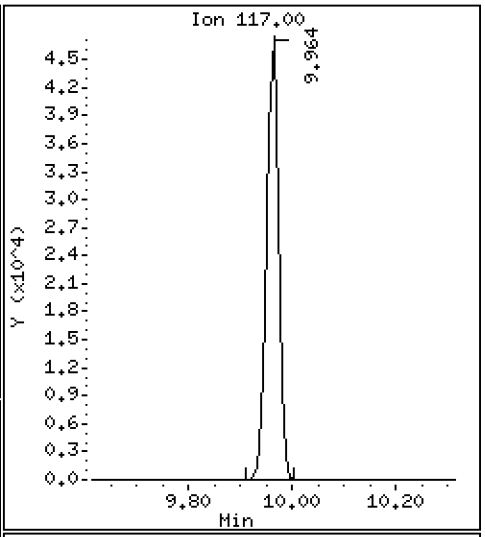
Column phase: ZB-5msi

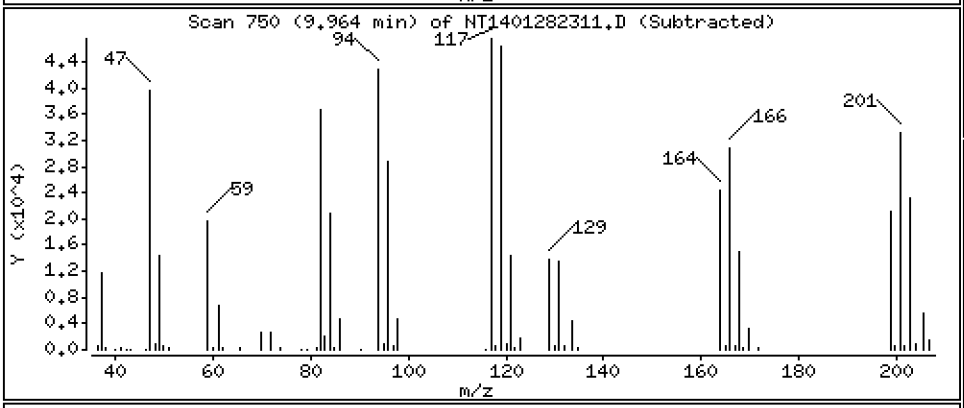
Column diameter: 0.25

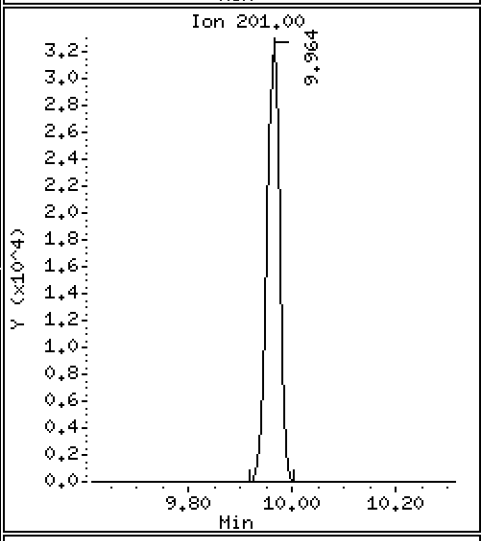
17 Hexachloroethane

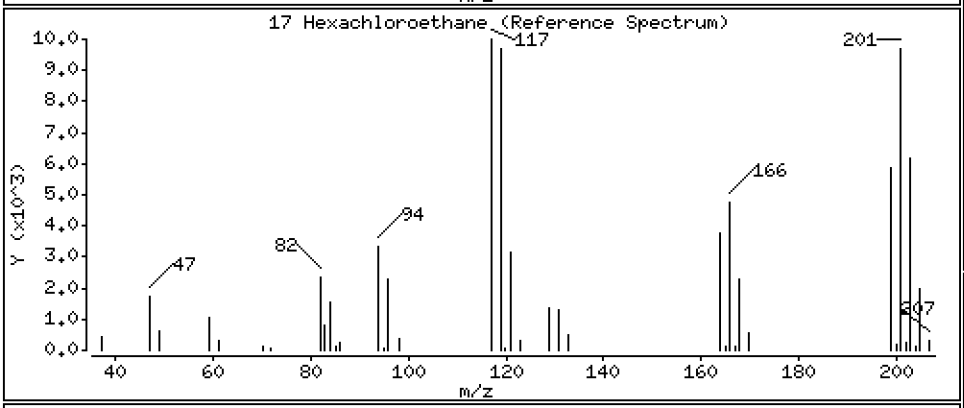
Concentration: 4.493 ug/mL

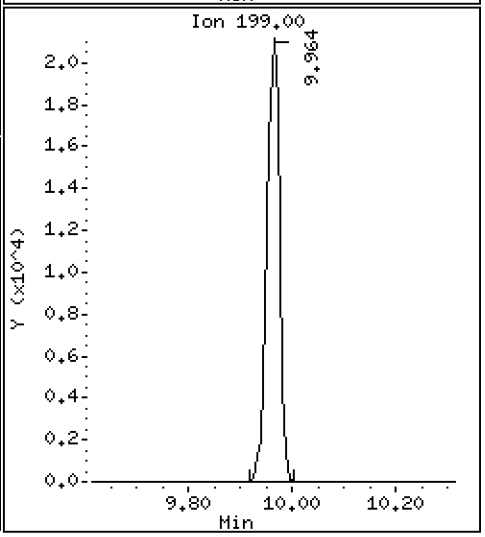


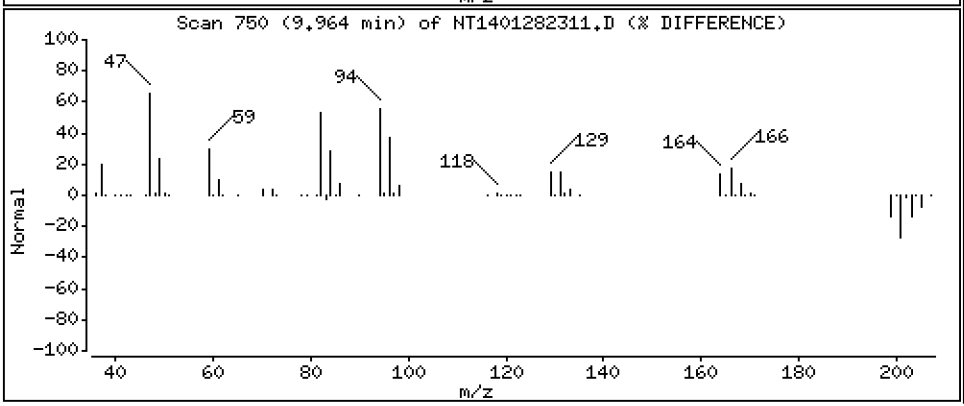












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

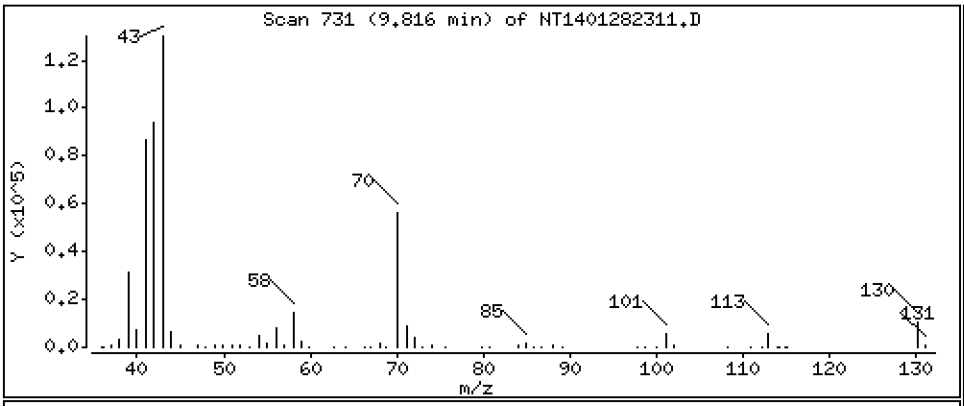
Operator: JGR

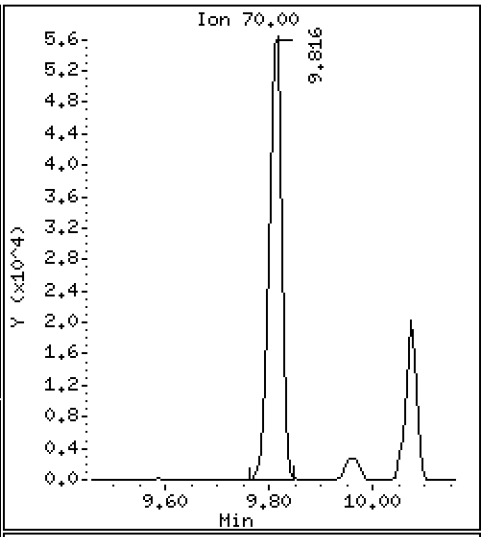
Column phase: ZB-5msi

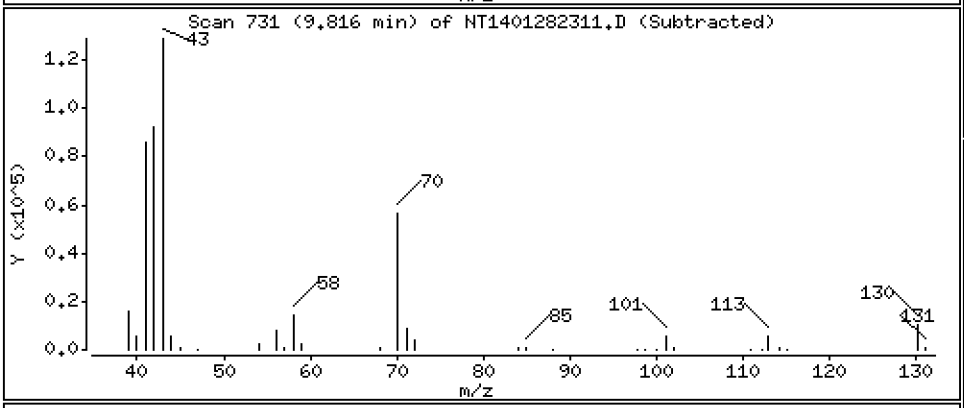
Column diameter: 0.25

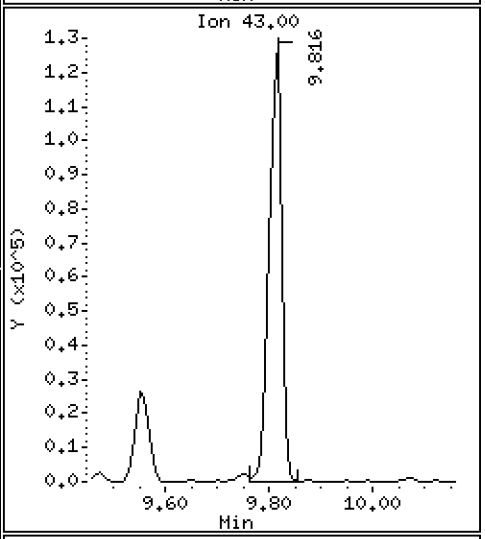
16 N-Nitroso-di-n-propylamine

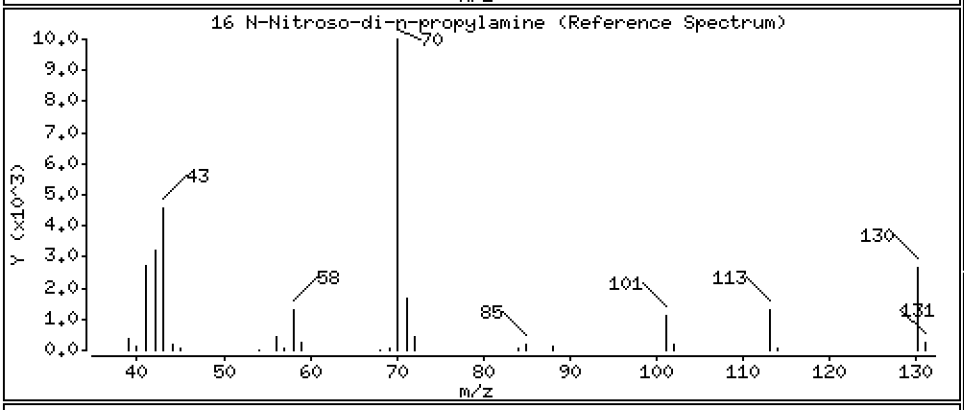
Concentration: 4.835 ug/mL

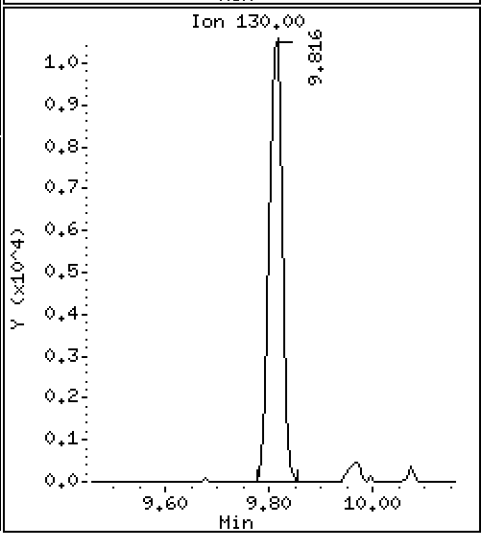


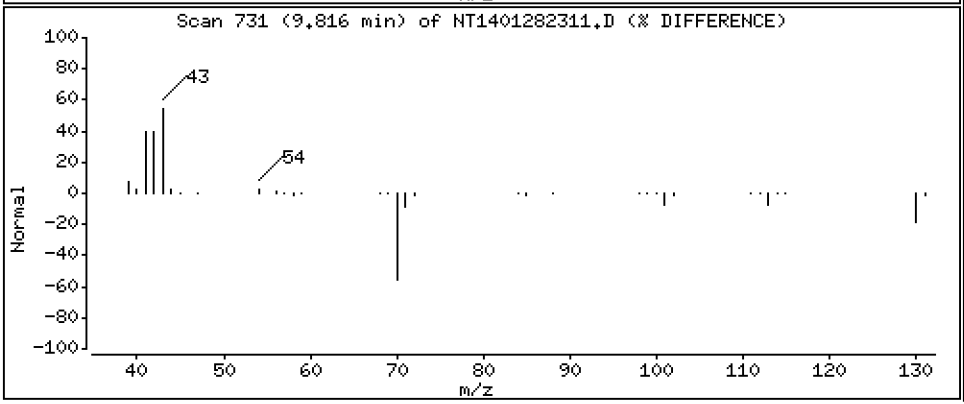












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

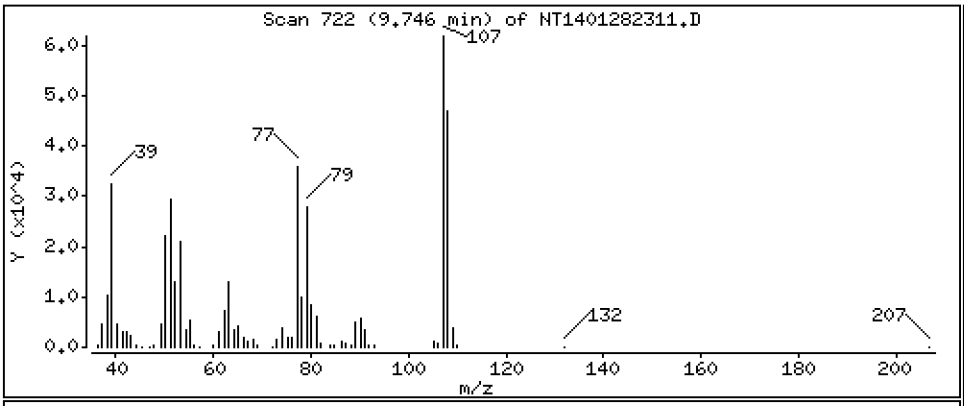
Operator: JGR

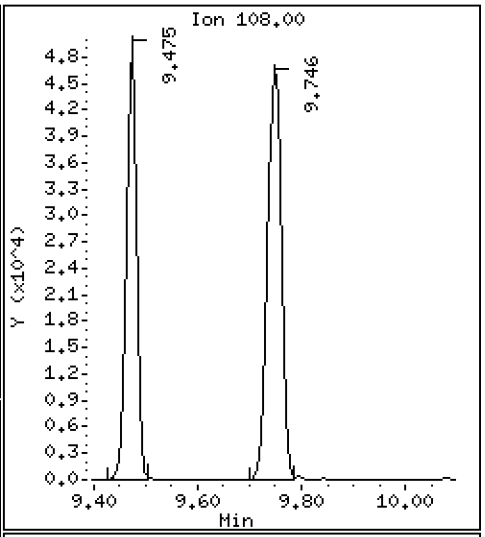
Column phase: ZB-5msi

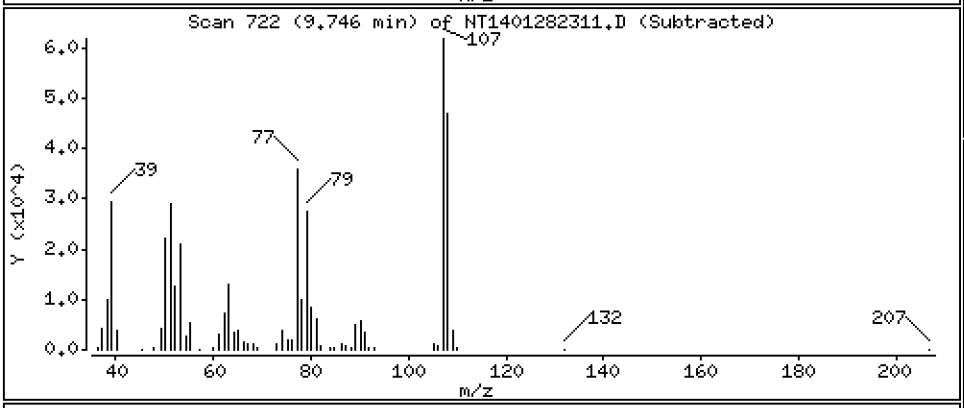
Column diameter: 0.25

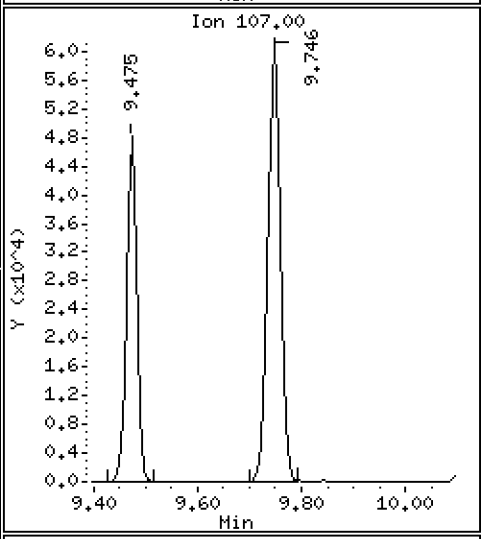
15 4-Methylphenol

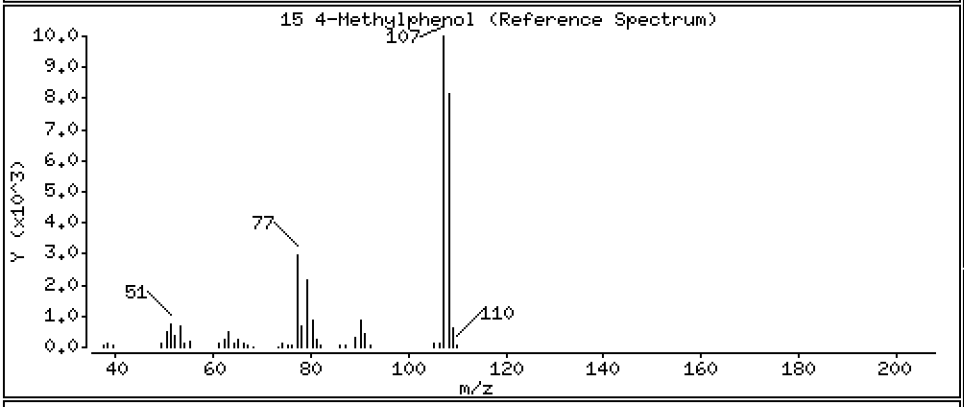
Concentration: 3.427 ug/mL

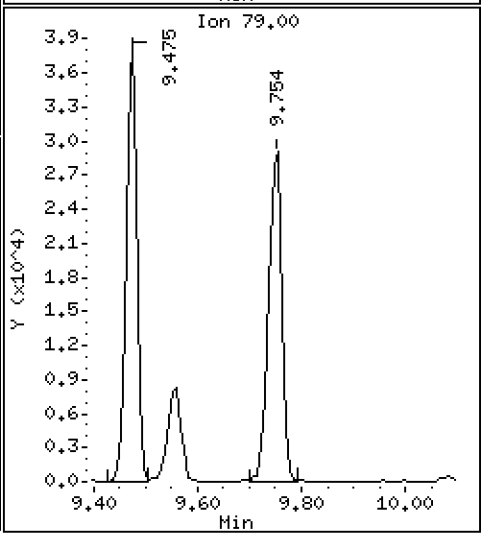


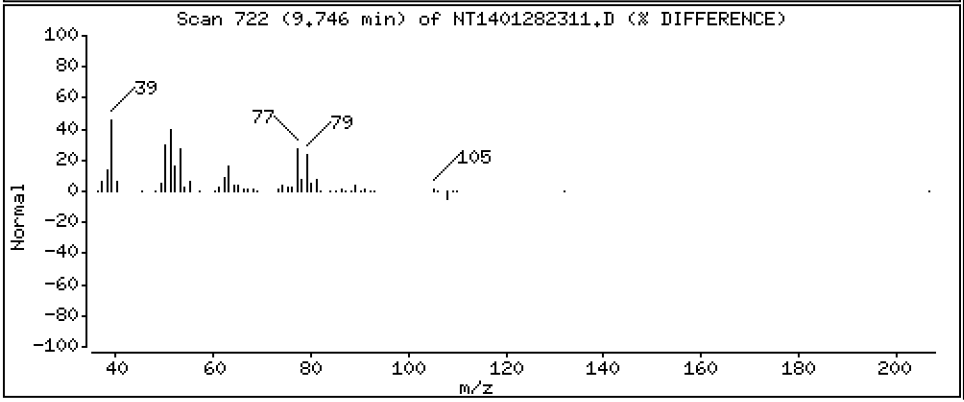












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

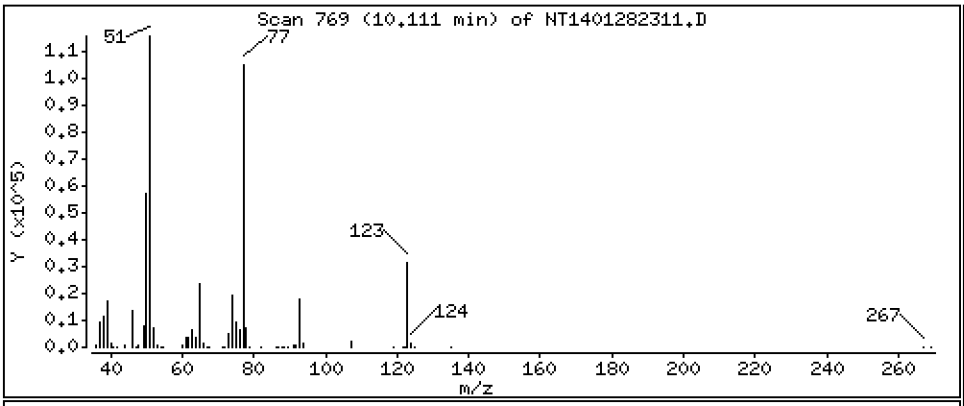
Operator: JGR

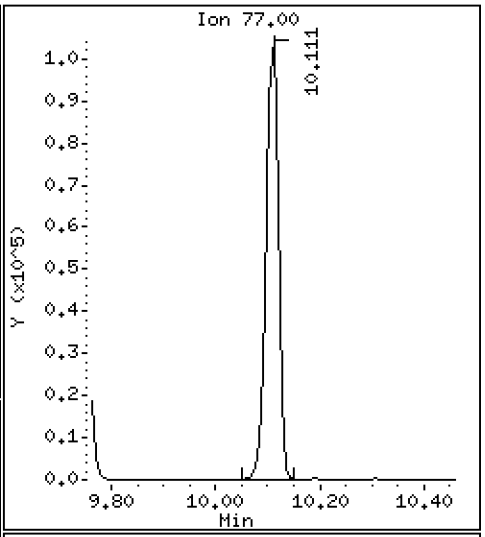
Column phase: ZB-5msi

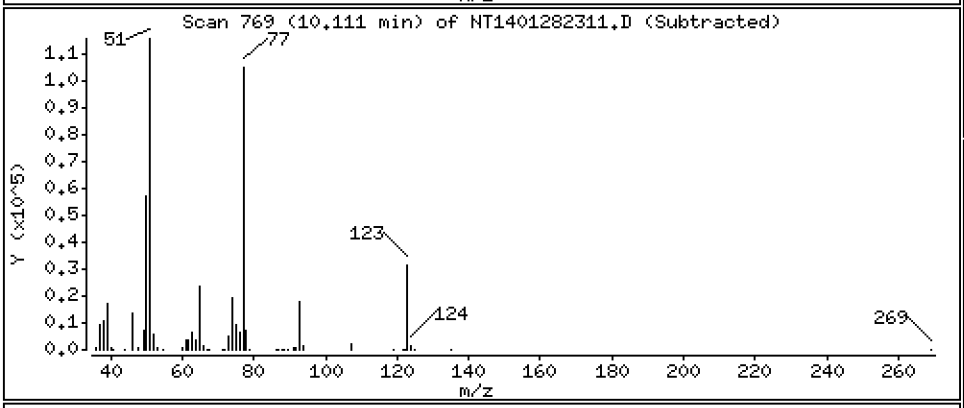
Column diameter: 0.25

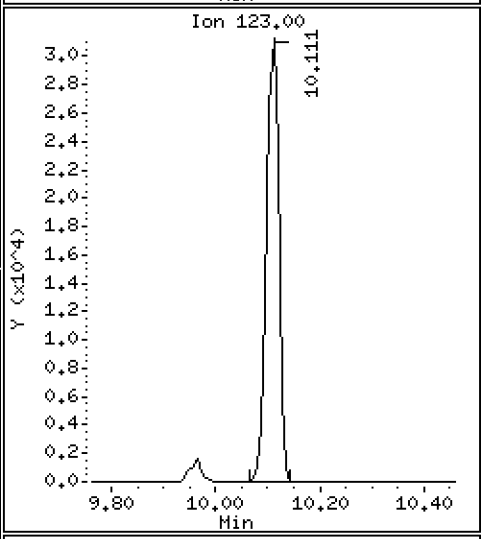
19 Nitrobenzene

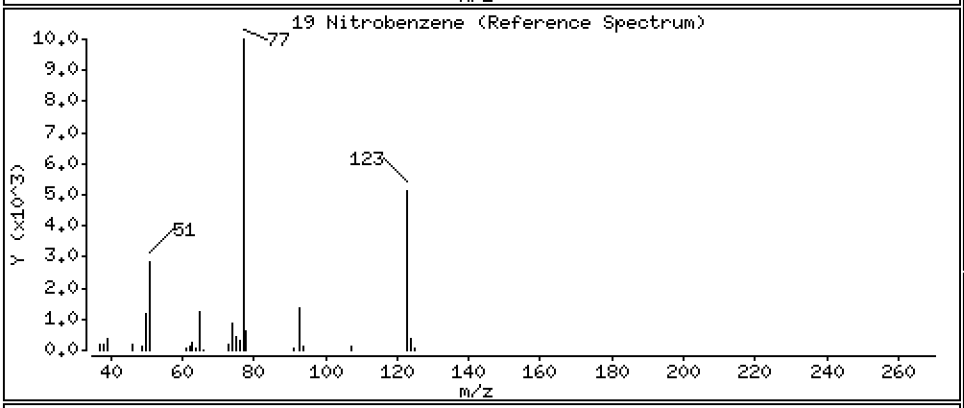
Concentration: 4.913 ug/mL

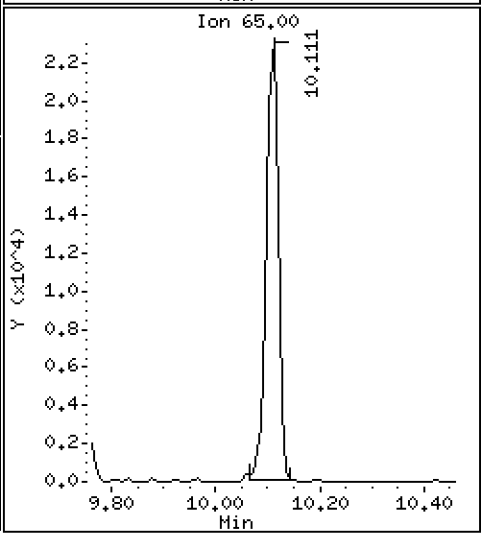


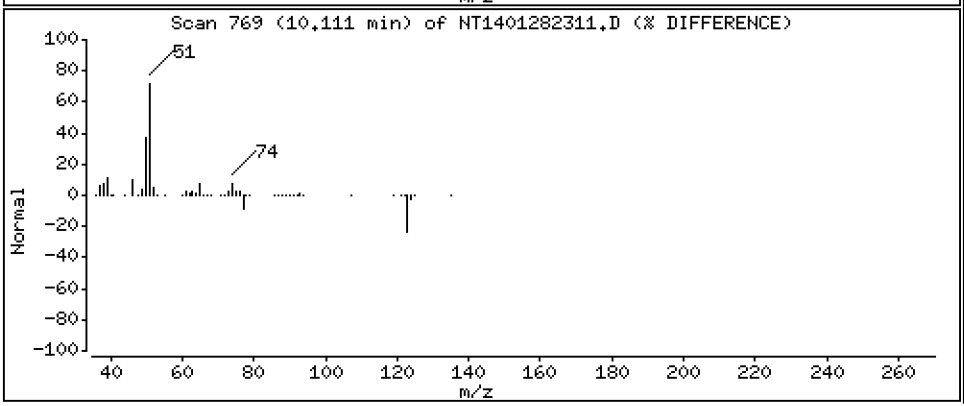












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

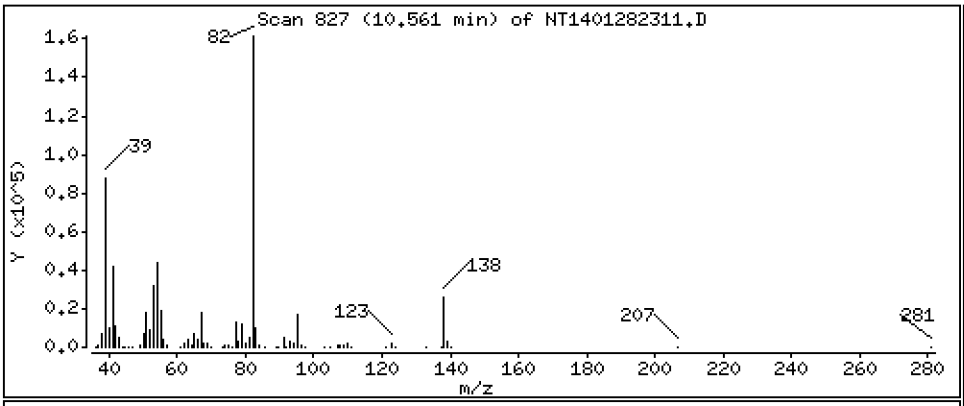
Operator: JGR

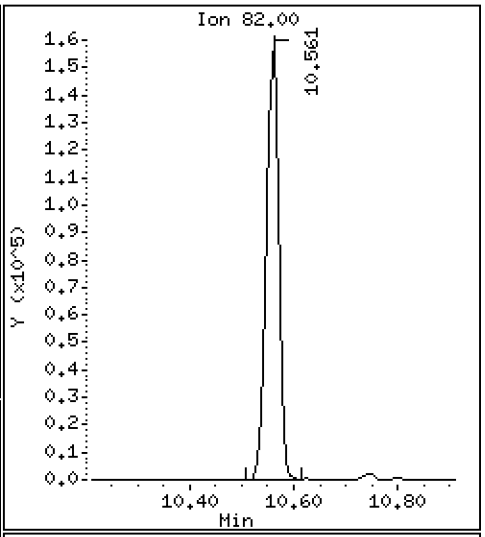
Column phase: ZB-5msi

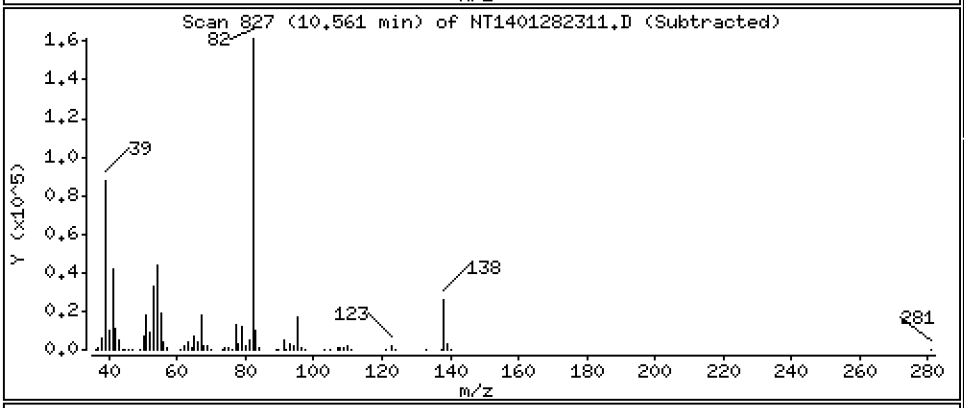
Column diameter: 0.25

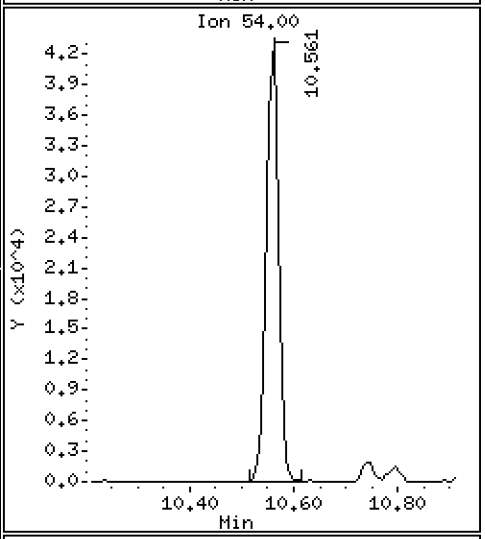
20 Isophorone

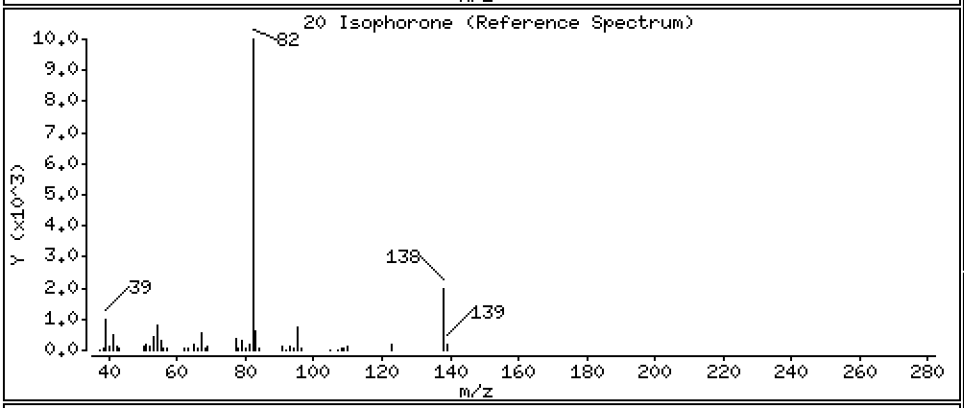
Concentration: 6.593 ug/mL

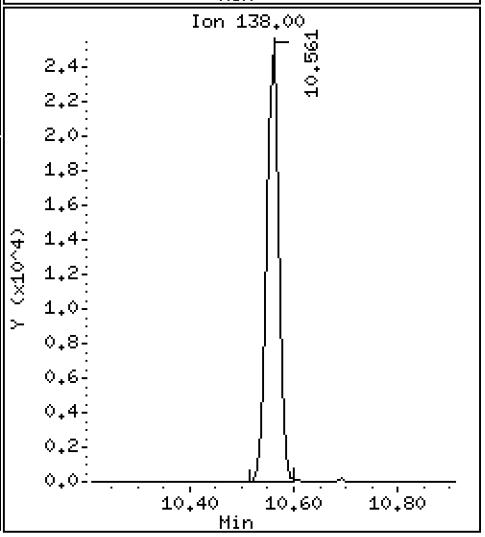


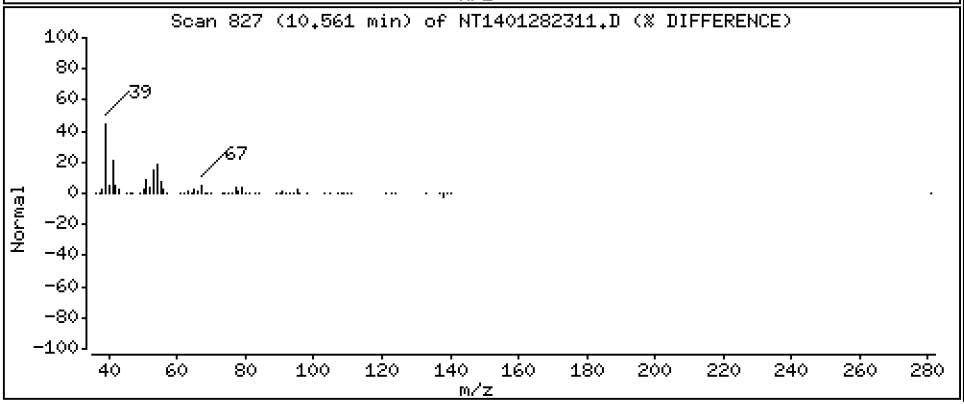












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

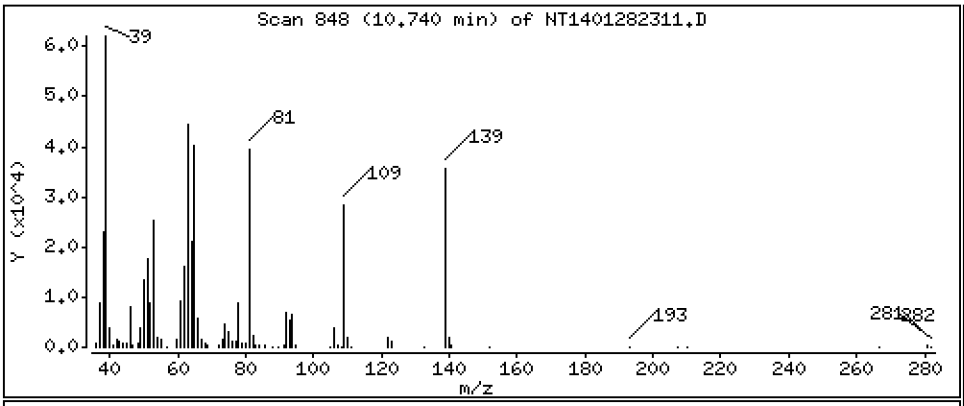
Operator: JGR

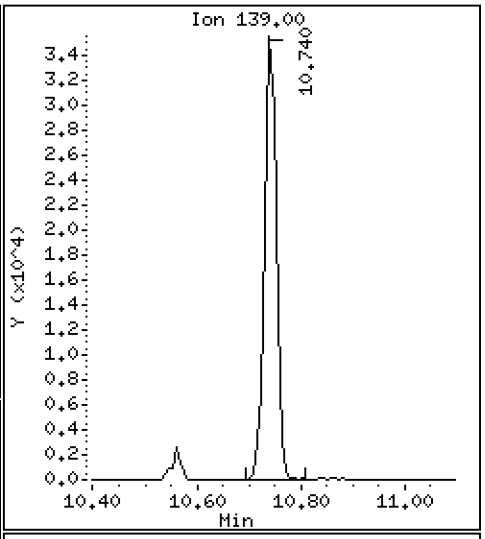
Column phase: ZB-5msi

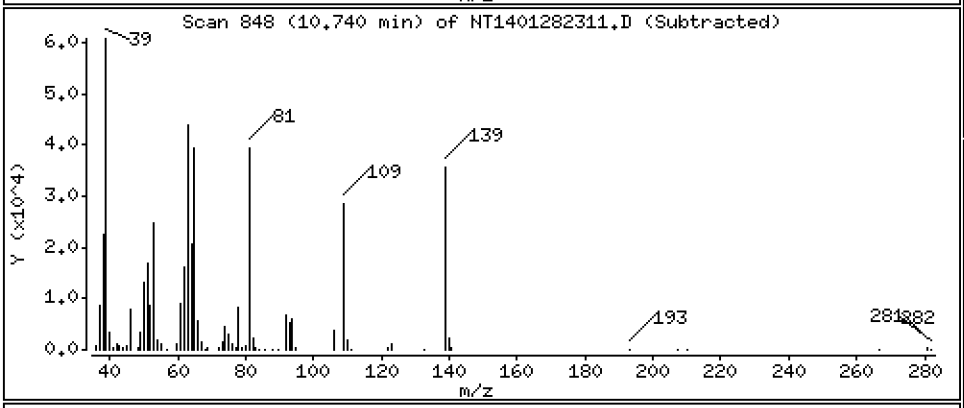
Column diameter: 0.25

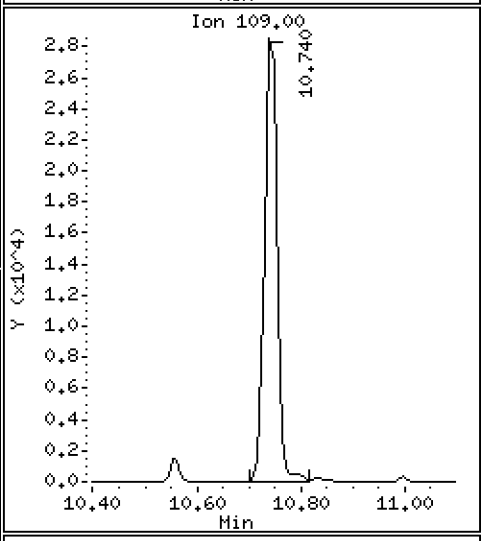
21 2-Nitrophenol

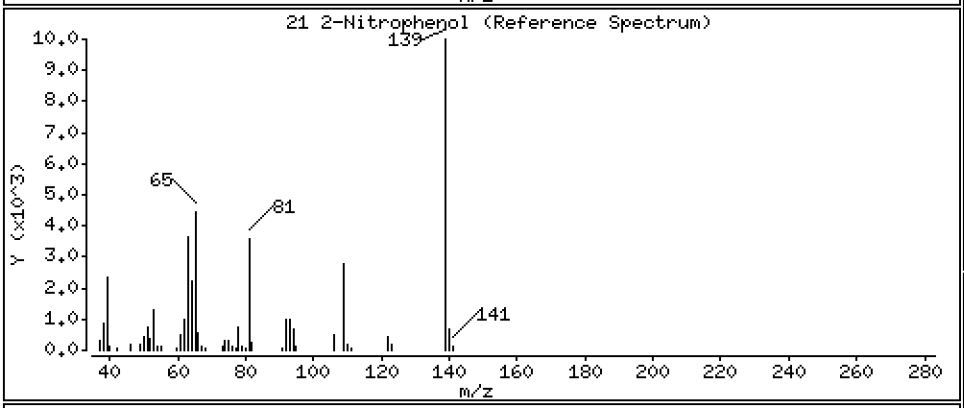
Concentration: 4.134 ug/mL

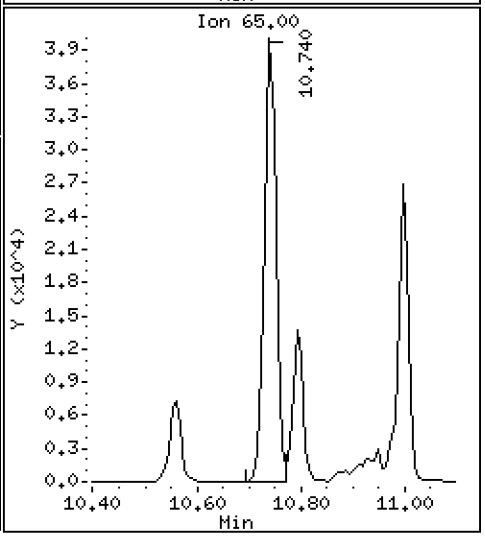


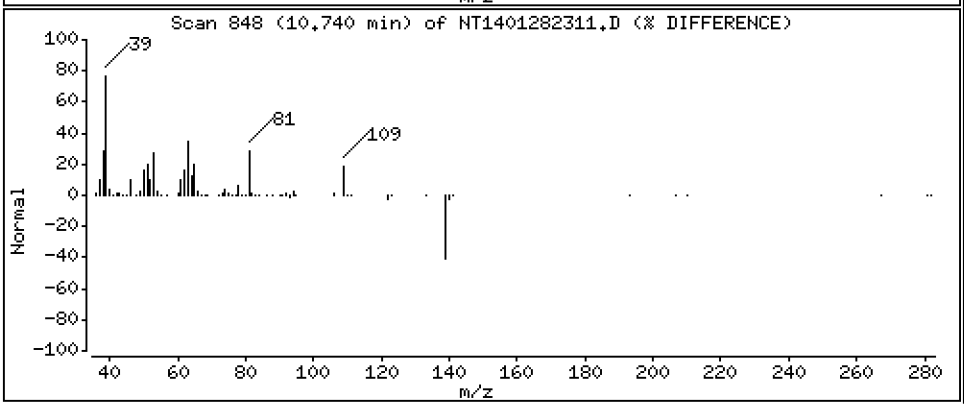












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

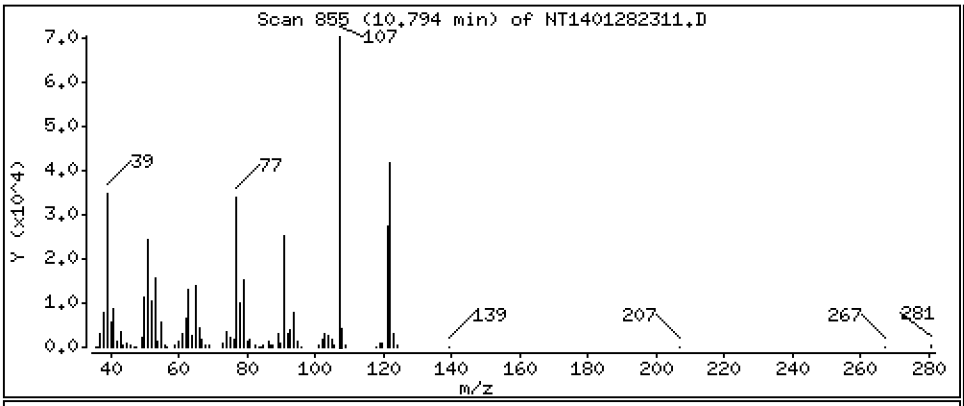
Operator: JGR

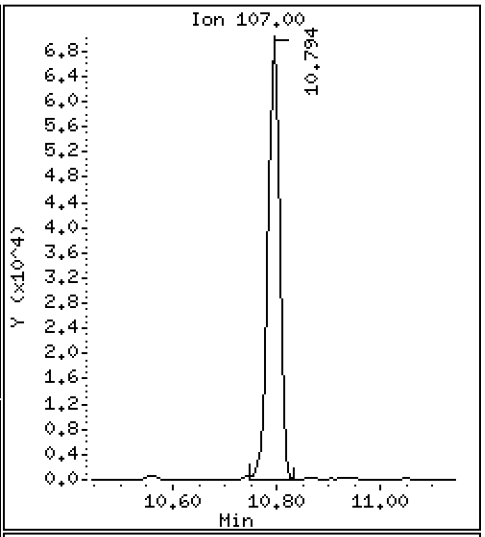
Column phase: ZB-5msi

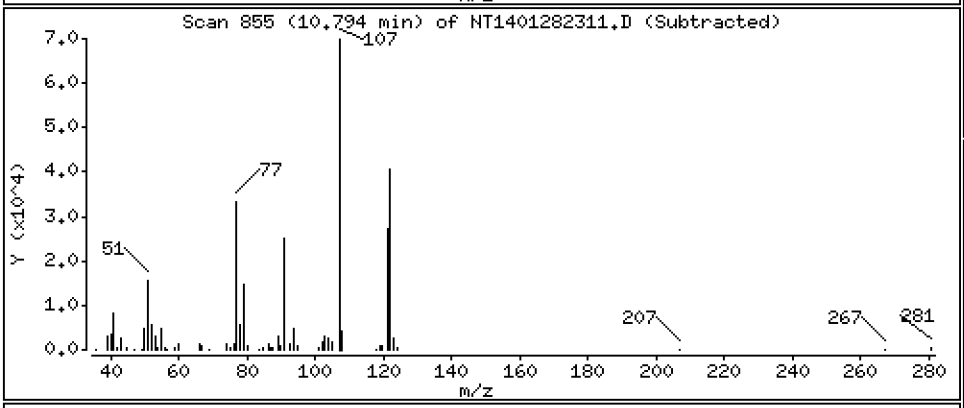
Column diameter: 0.25

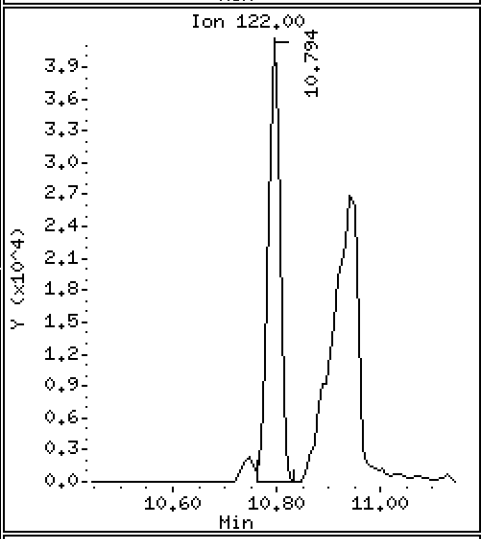
22 2,4-Dimethylphenol

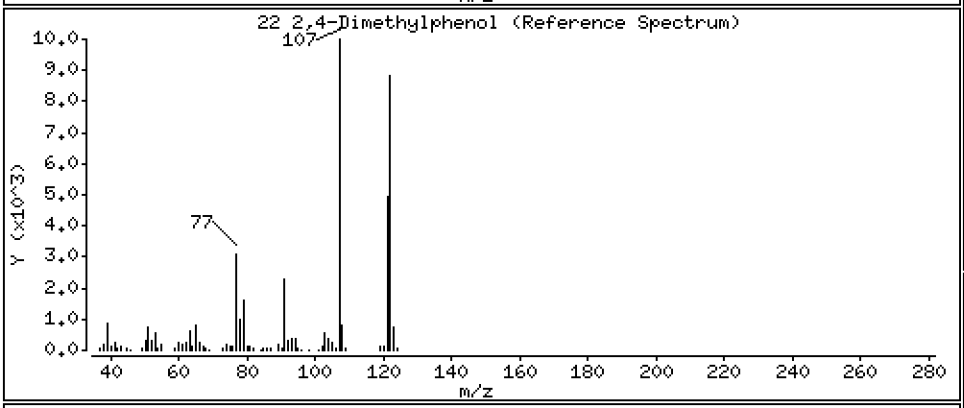
Concentration: 3.034 ug/mL

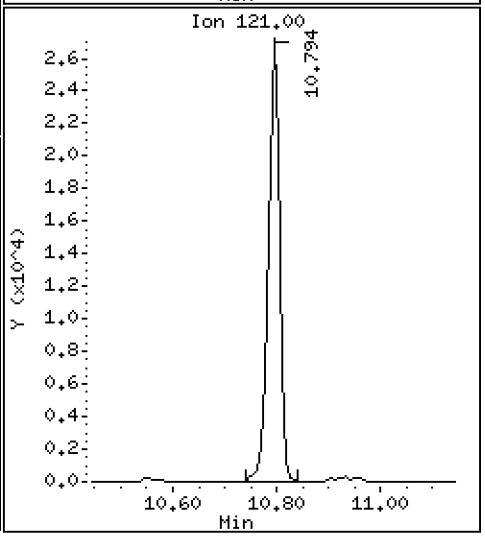


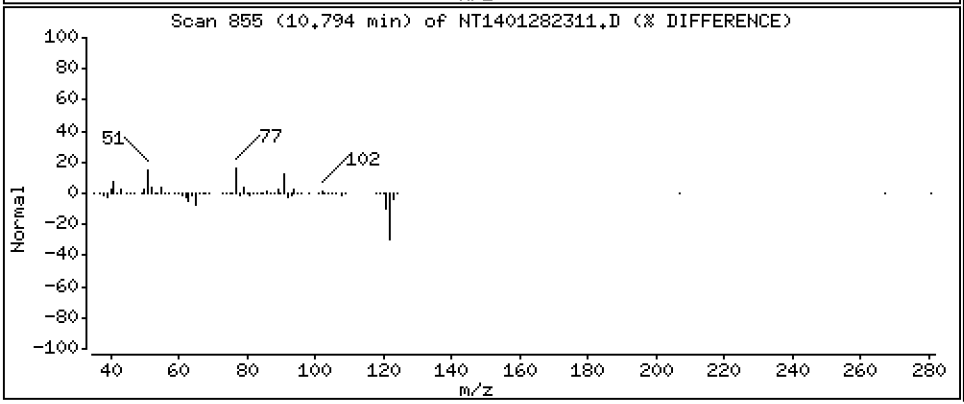












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

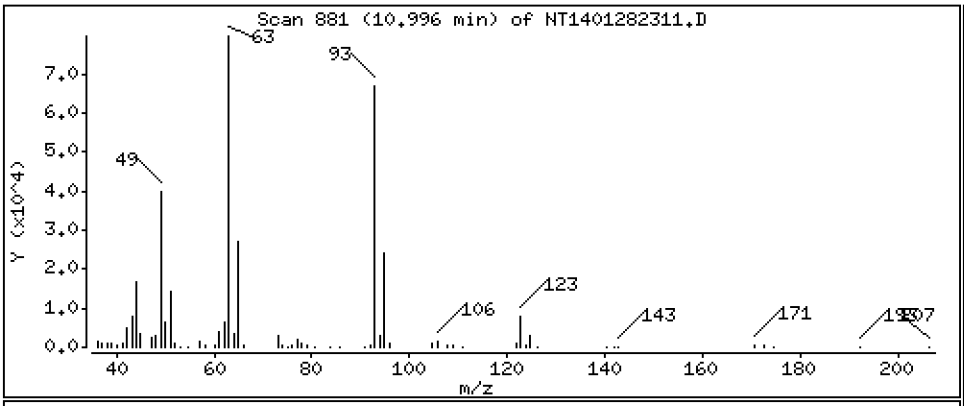
Operator: JGR

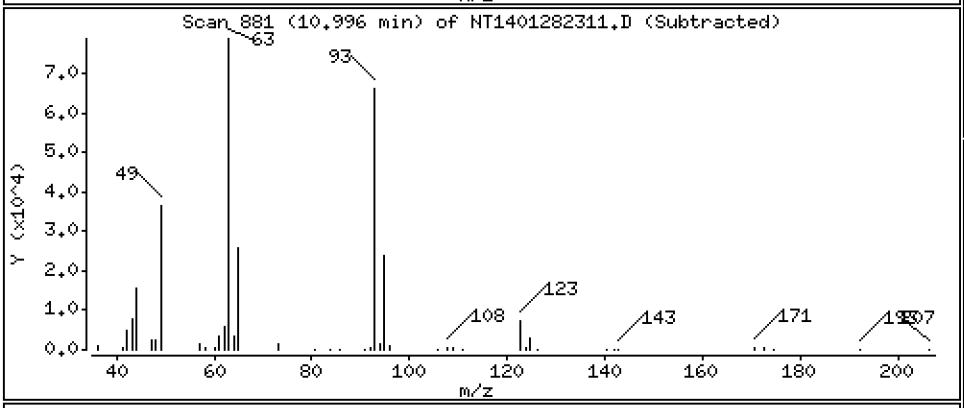
Column phase: ZB-5msi

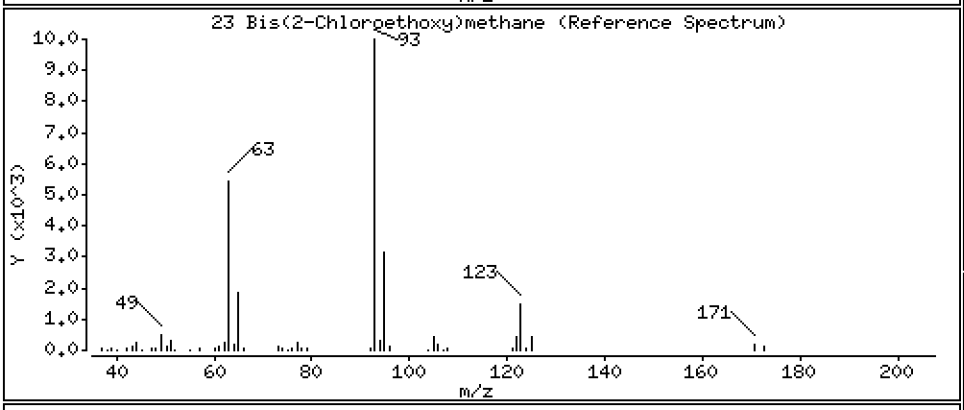
Column diameter: 0.25

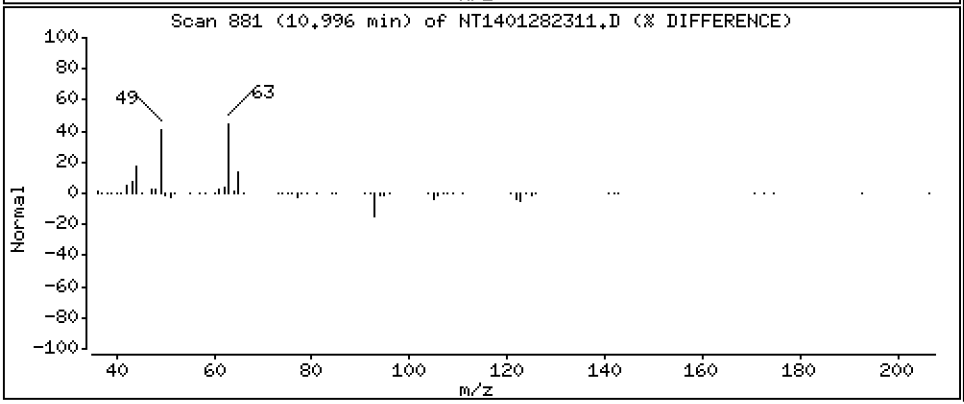
23 Bis(2-Chloroethoxy)methane

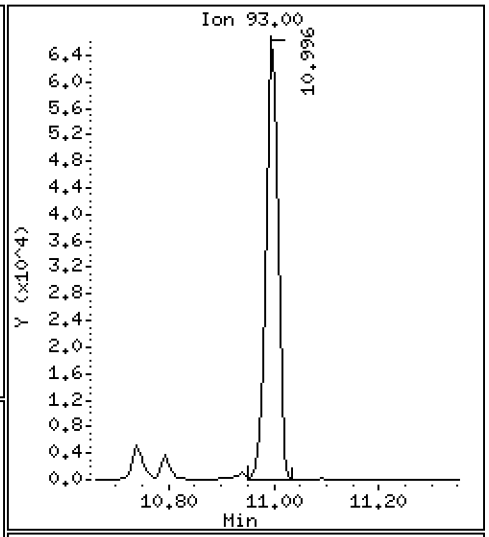
Concentration: 5.454 ug/mL

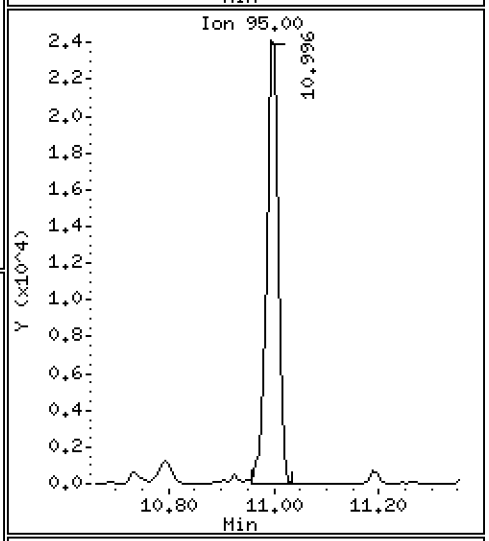


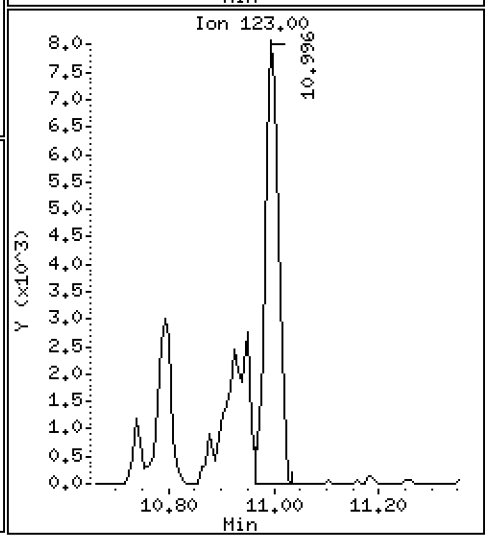












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

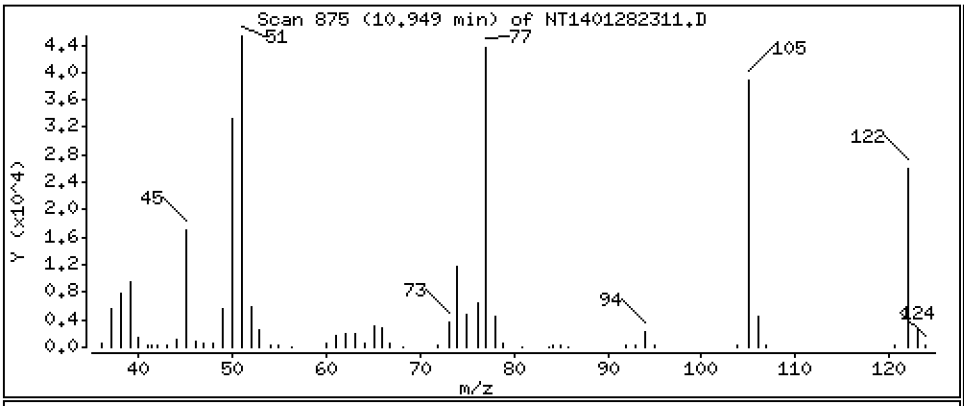
Operator: JGR

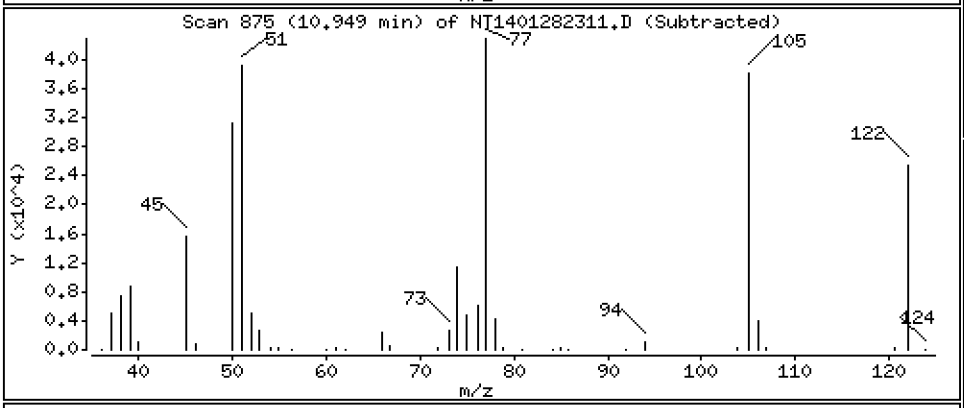
Column phase: ZB-5msi

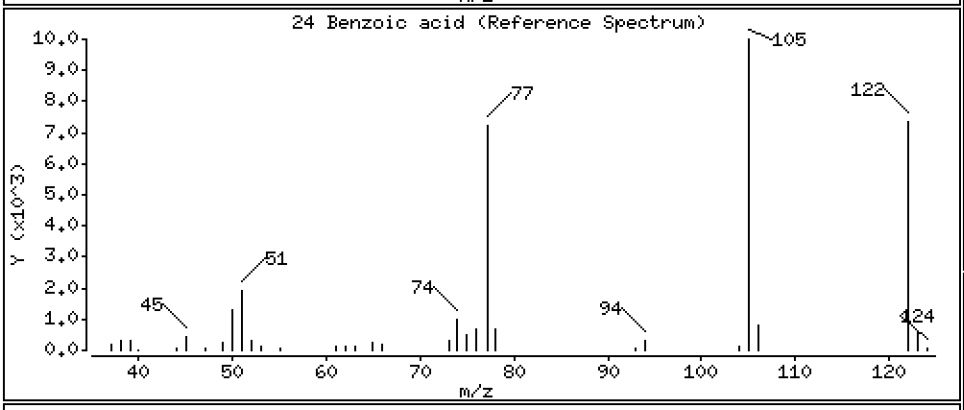
Column diameter: 0.25

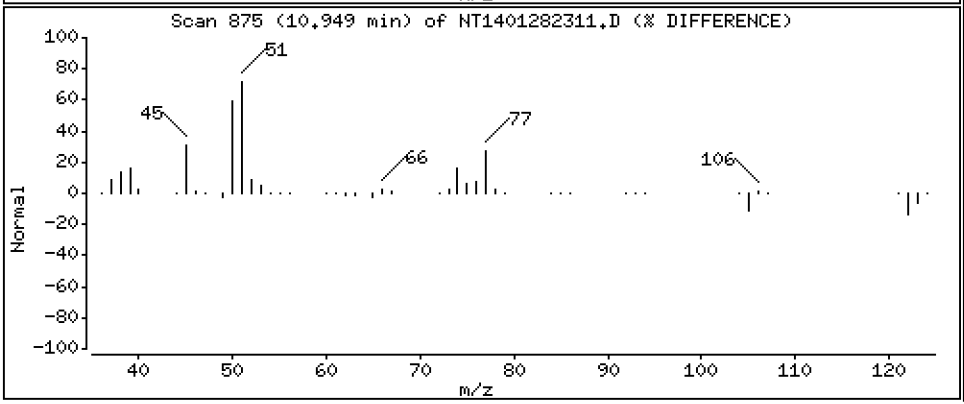
24 Benzoic acid

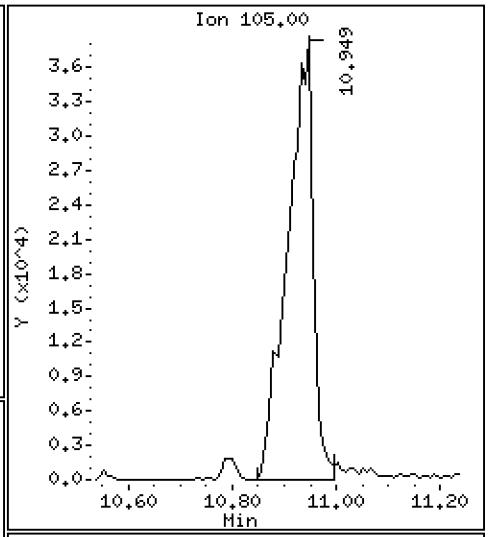
Concentration: 6.669 ug/mL

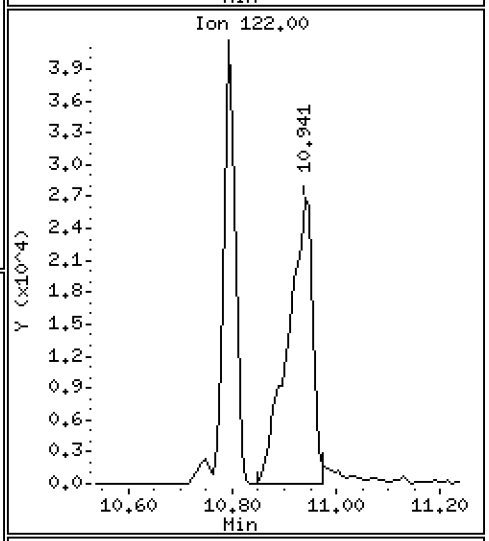


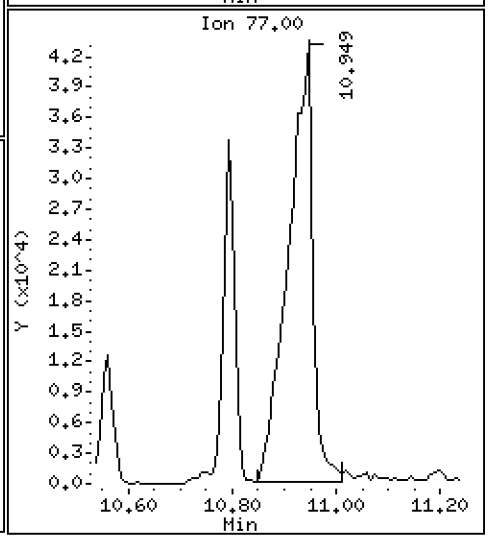












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

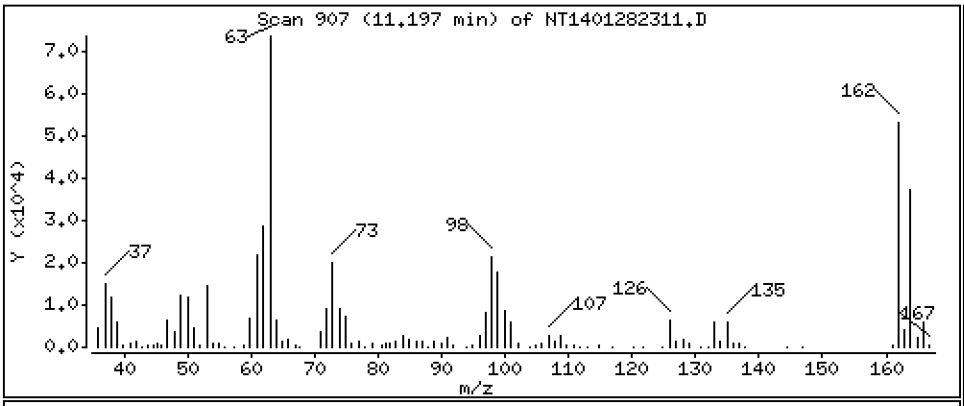
Operator: JGR

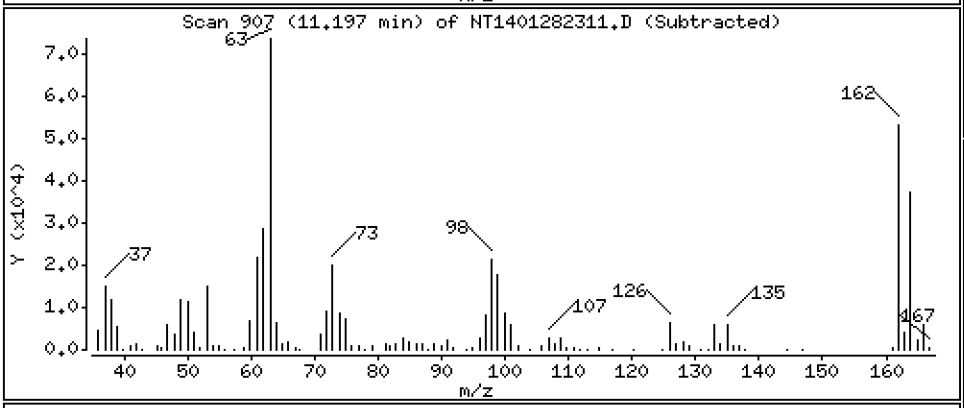
Column phase: ZB-5msi

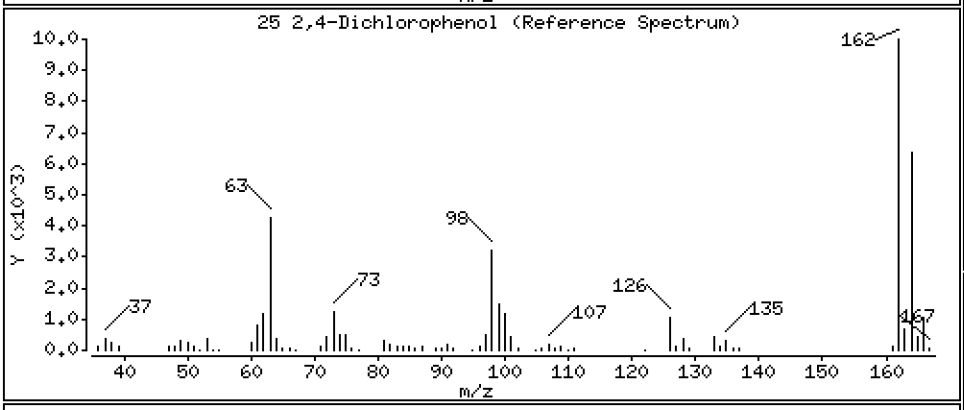
Column diameter: 0.25

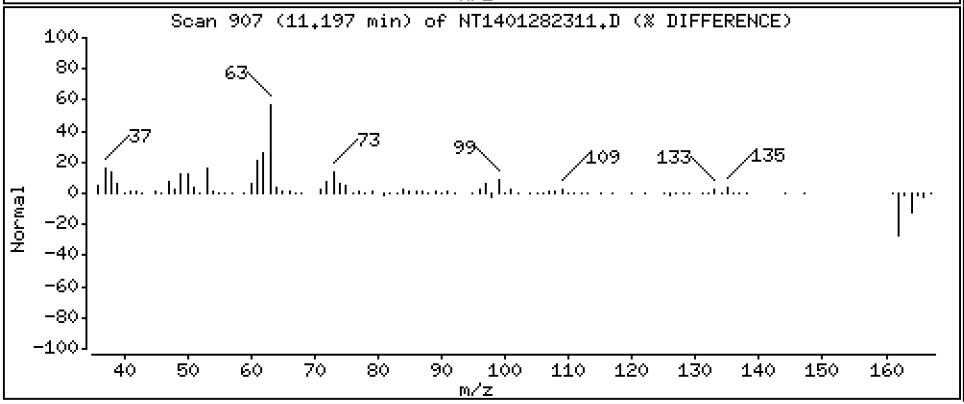
25 2,4-Dichlorophenol

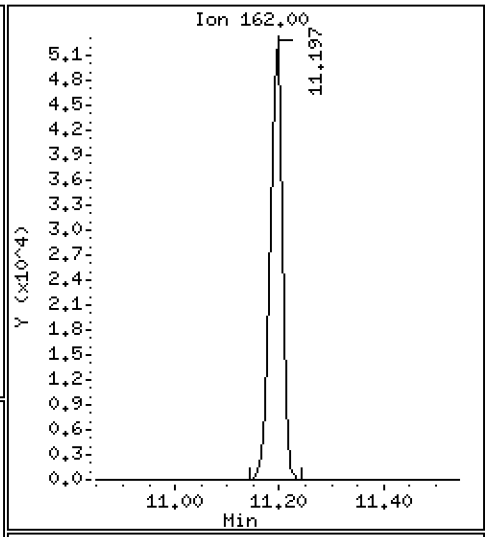
Concentration: 3.997 ug/mL

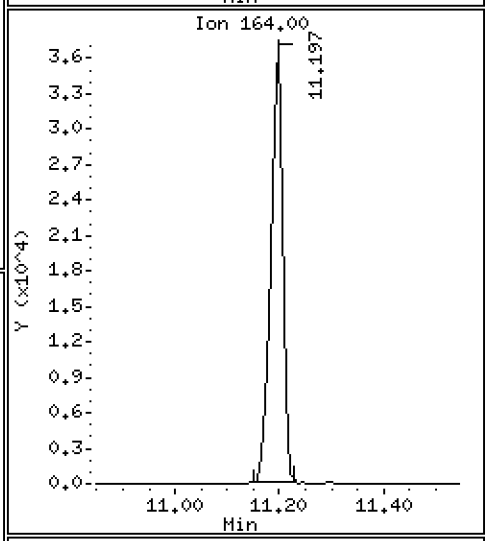


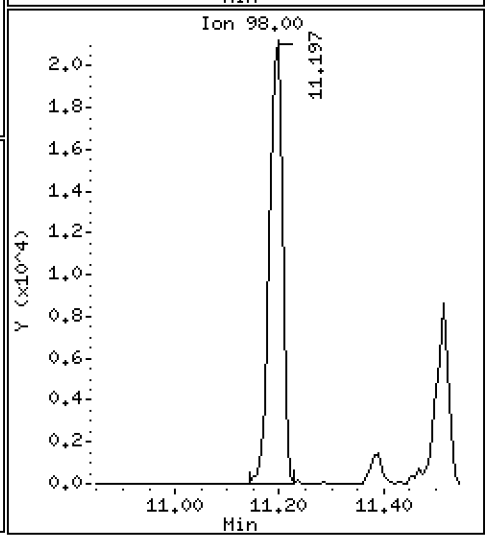












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

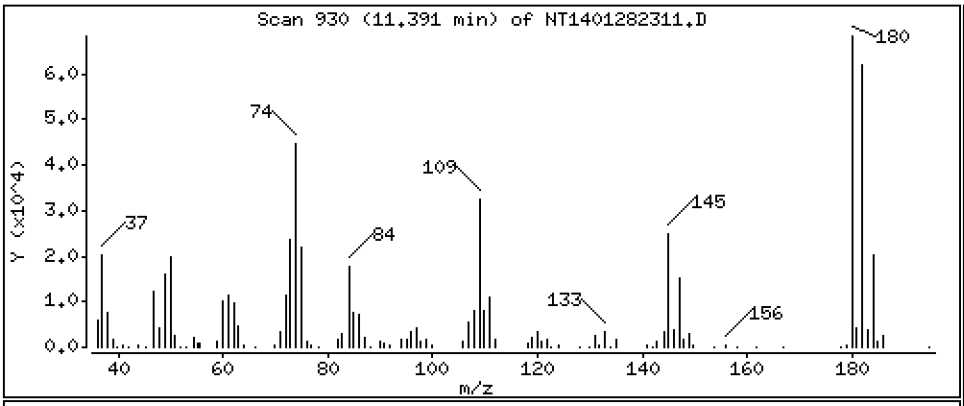
Operator: JGR

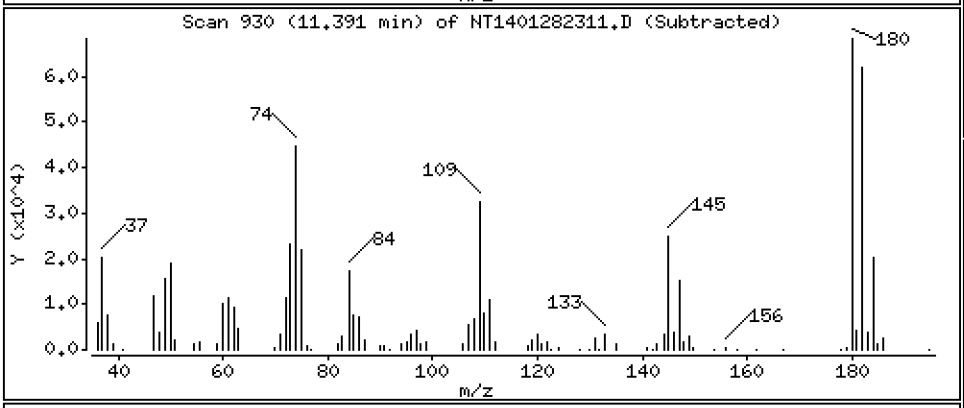
Column phase: ZB-5msi

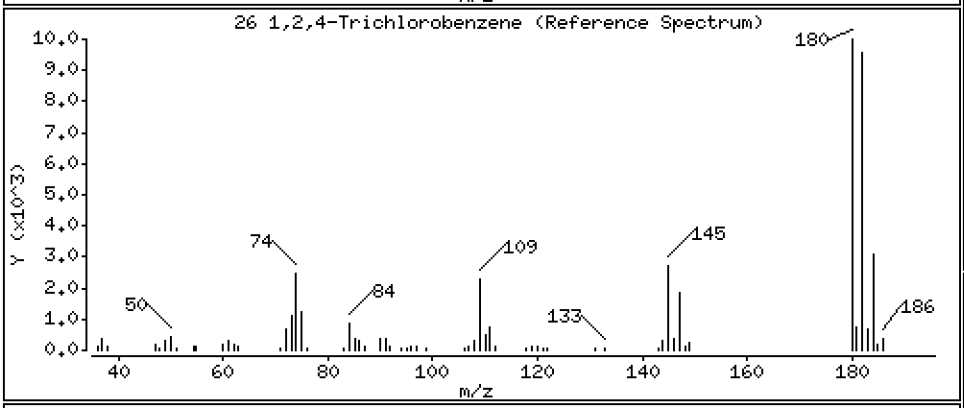
Column diameter: 0.25

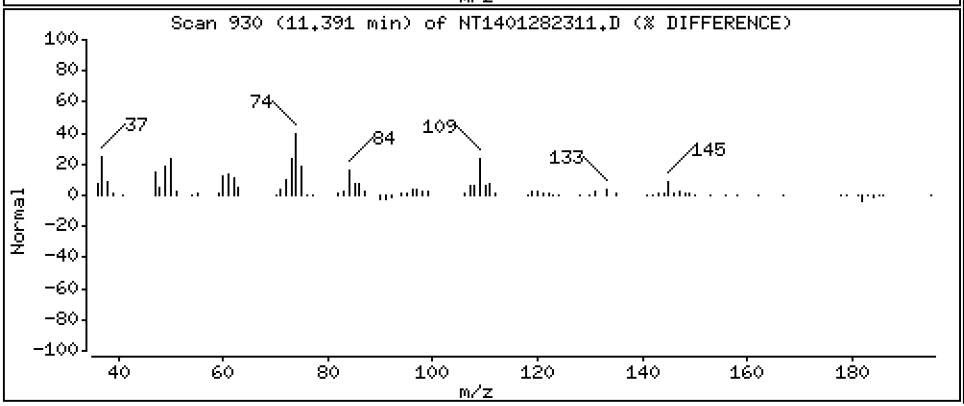
26 1,2,4-Trichlorobenzene

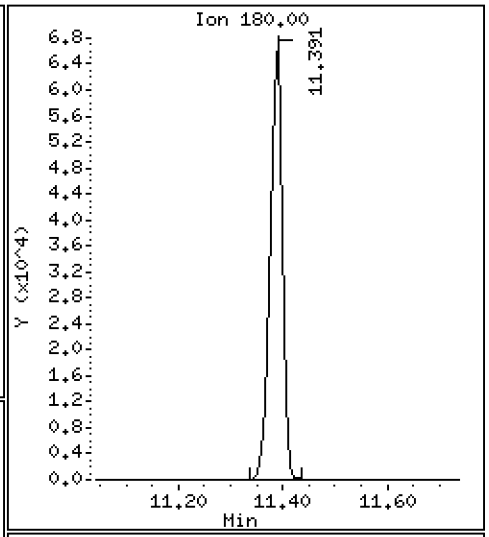
Concentration: 4.476 ug/mL

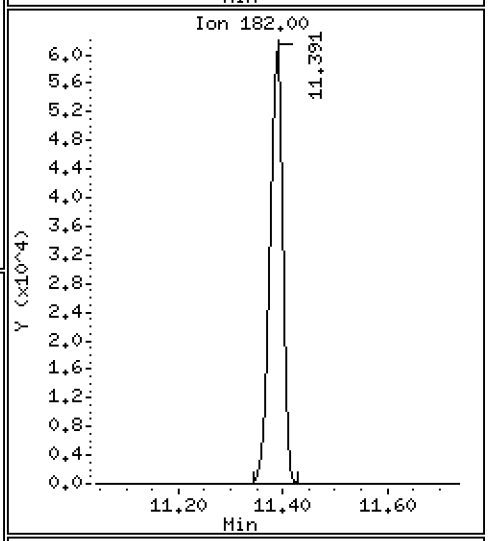


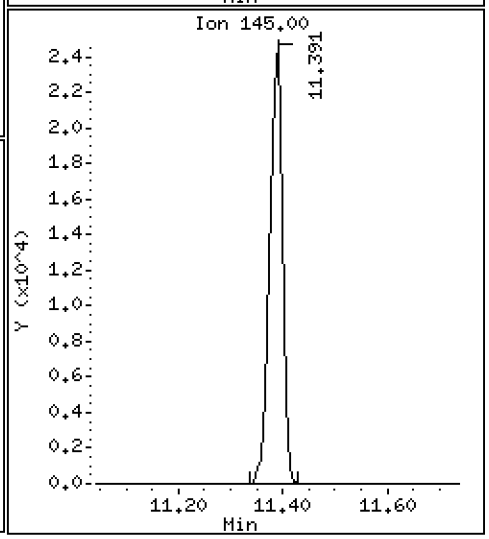












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

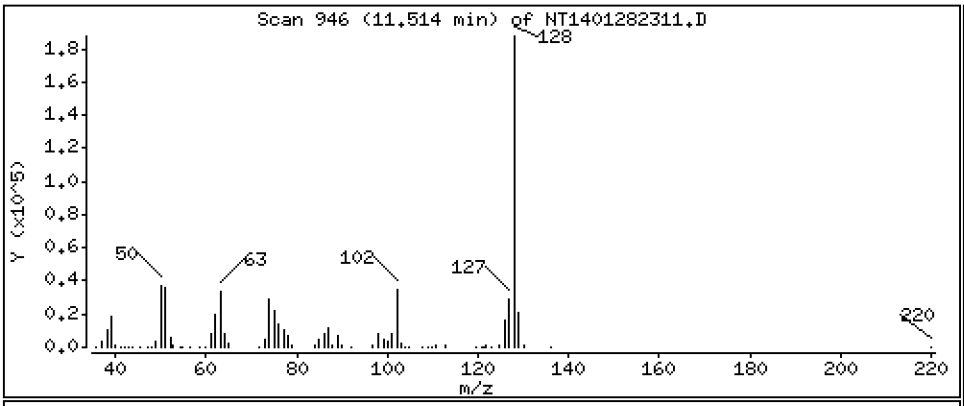
Operator: JGR

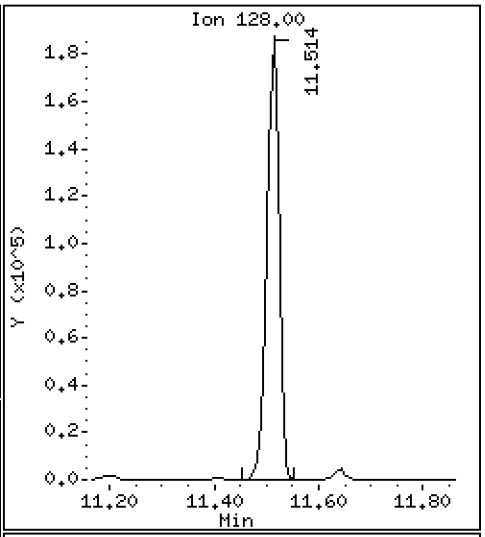
Column phase: ZB-5msi

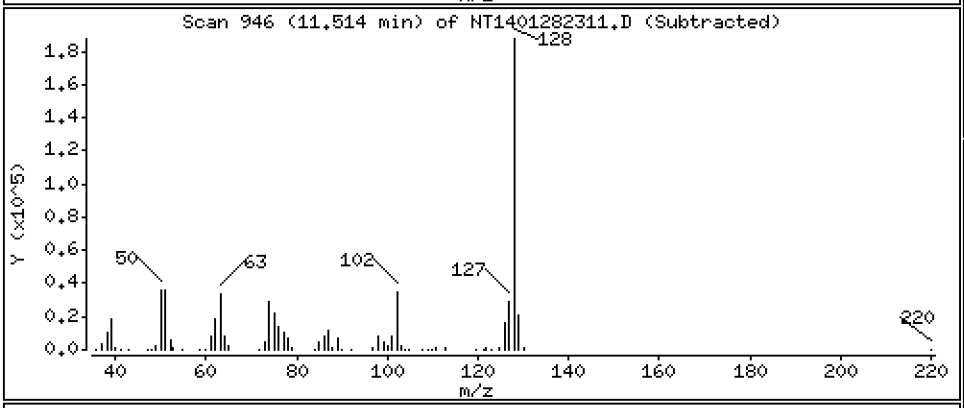
Column diameter: 0.25

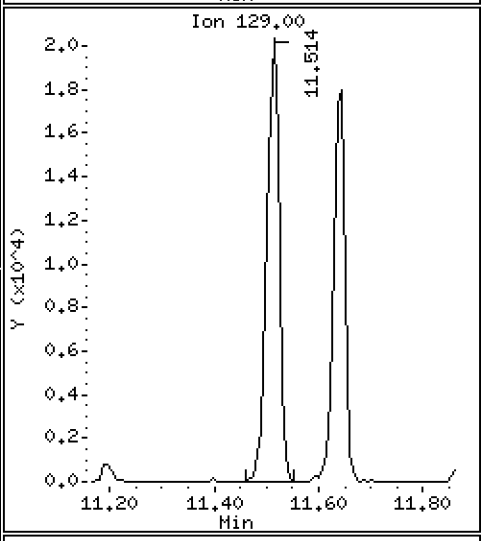
28 Naphthalene

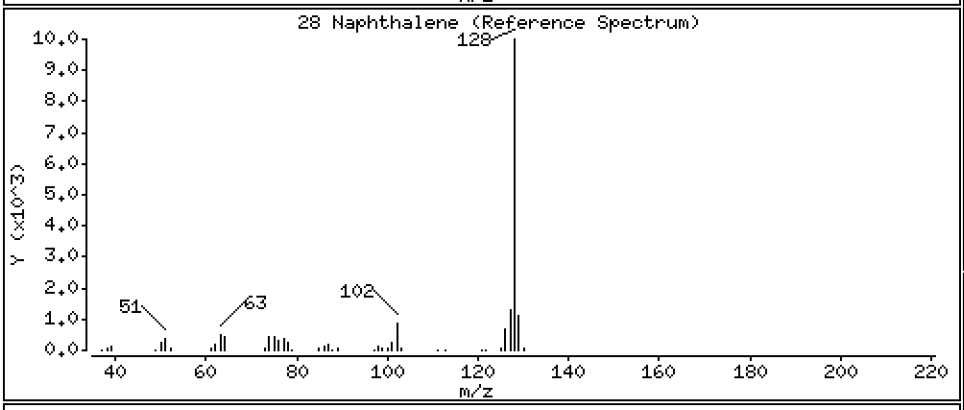
Concentration: 4.807 ug/mL

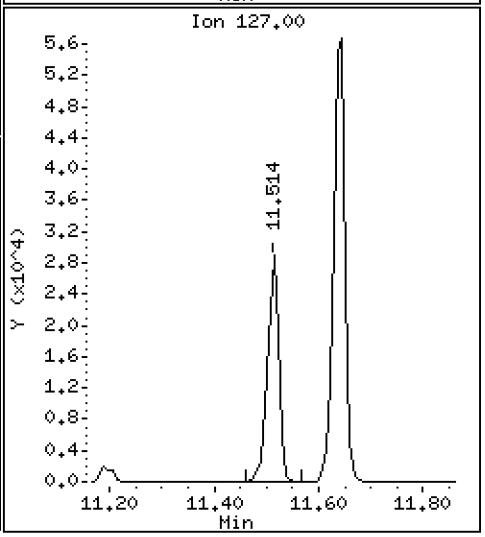


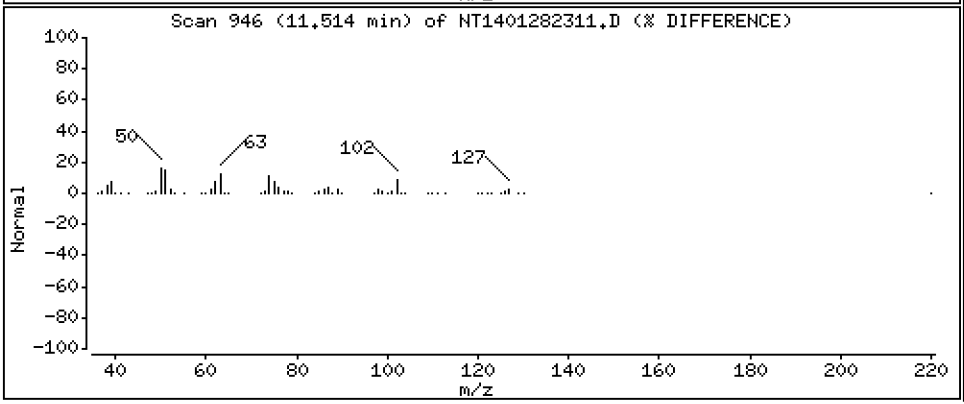












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

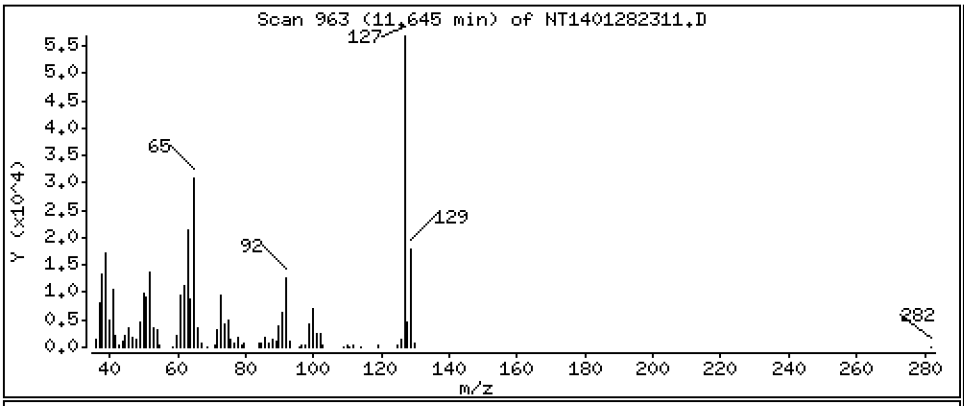
Operator: JGR

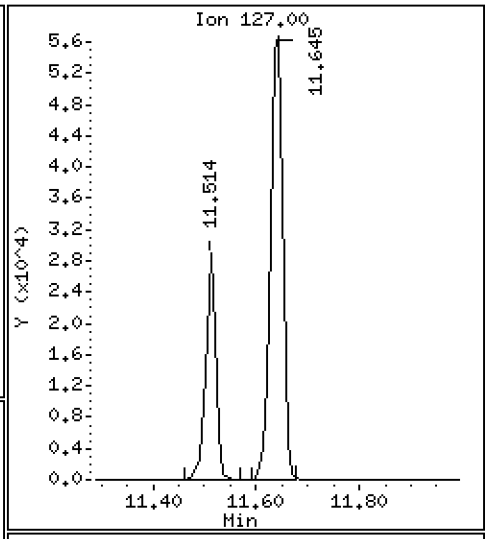
Column phase: ZB-5msi

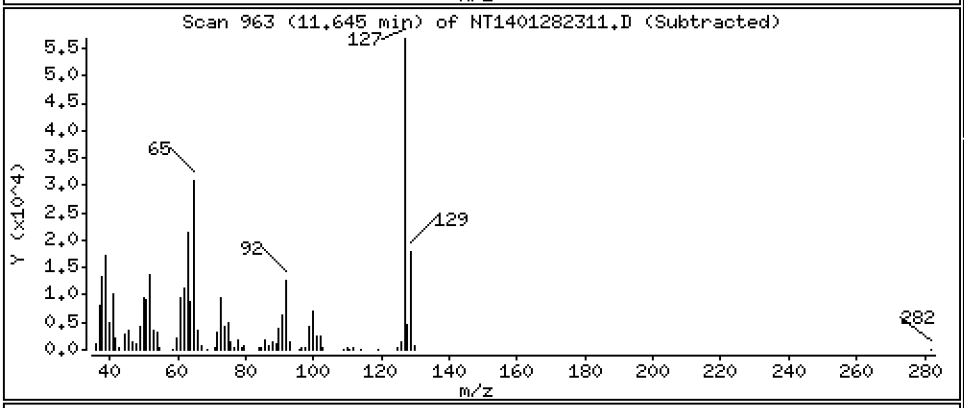
Column diameter: 0.25

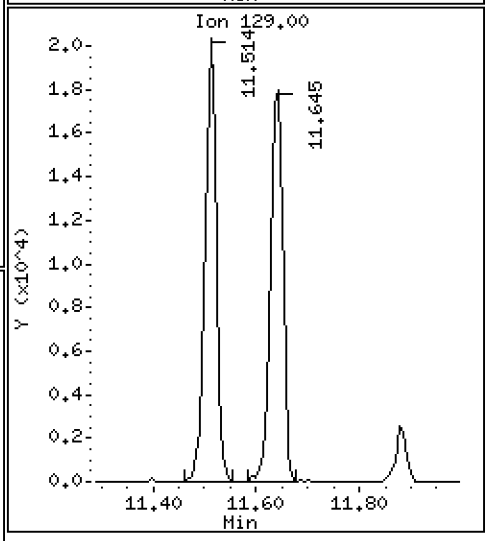
29 4-Chloroaniline

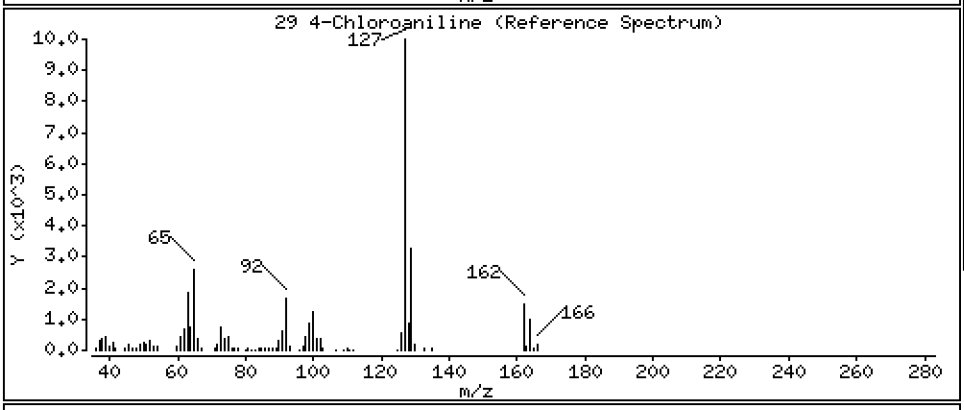
Concentration: 3.544 ug/mL

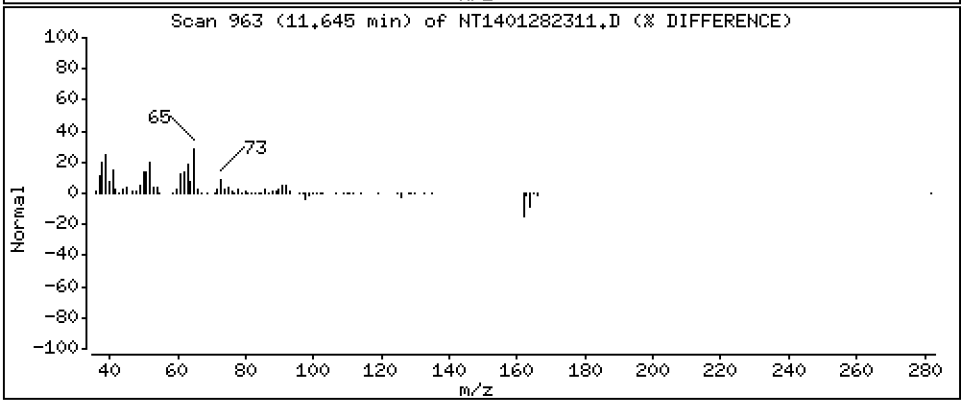












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

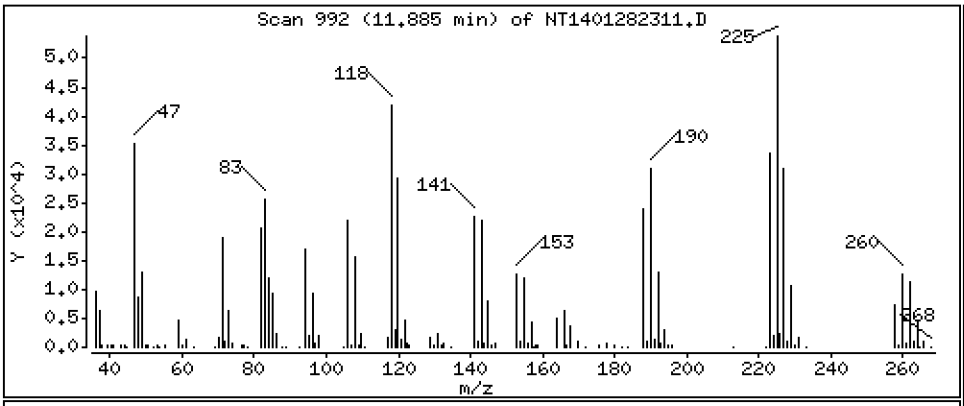
Operator: JGR

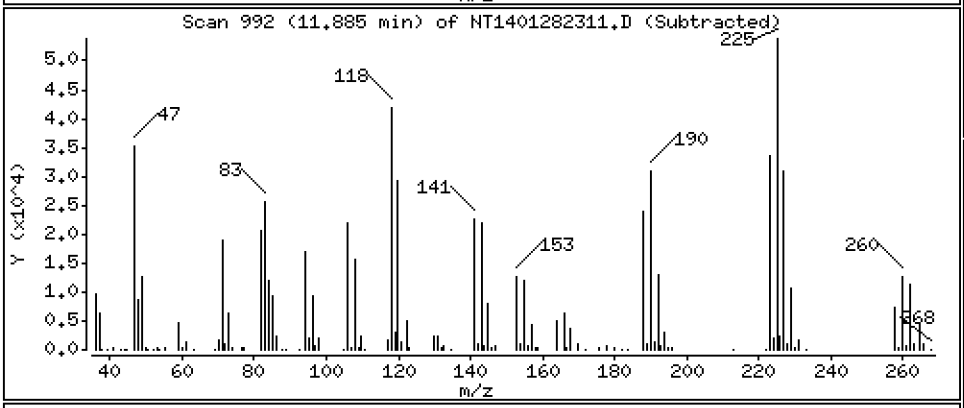
Column phase: ZB-5msi

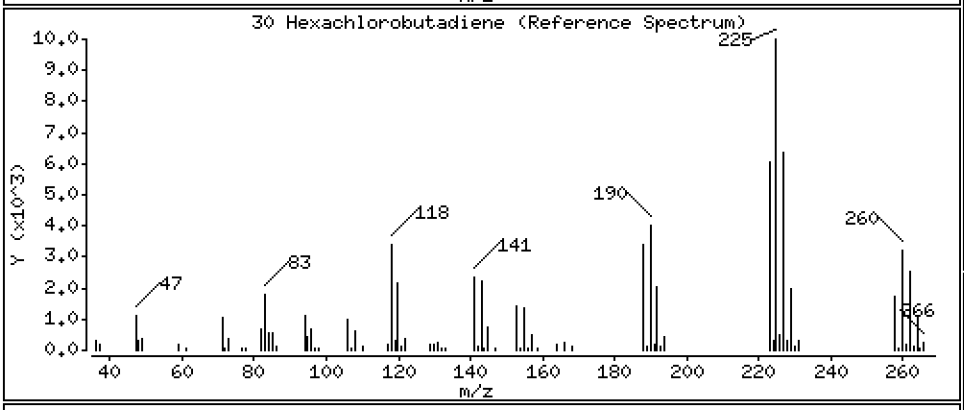
Column diameter: 0.25

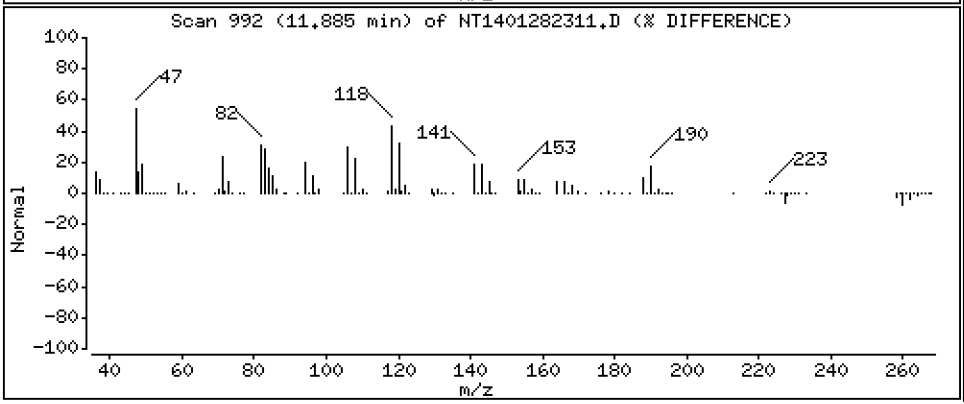
30 Hexachlorobutadiene

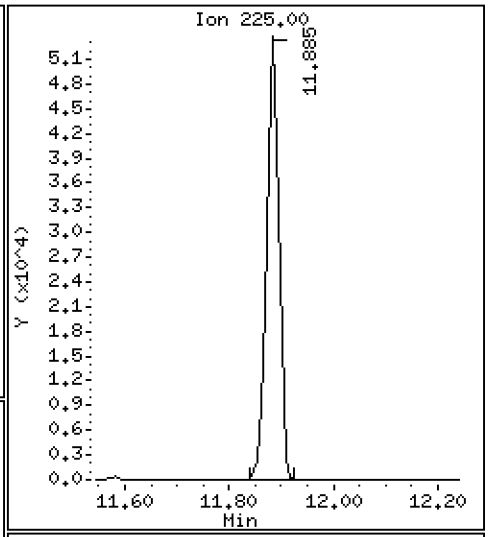
Concentration: 4.675 ug/mL

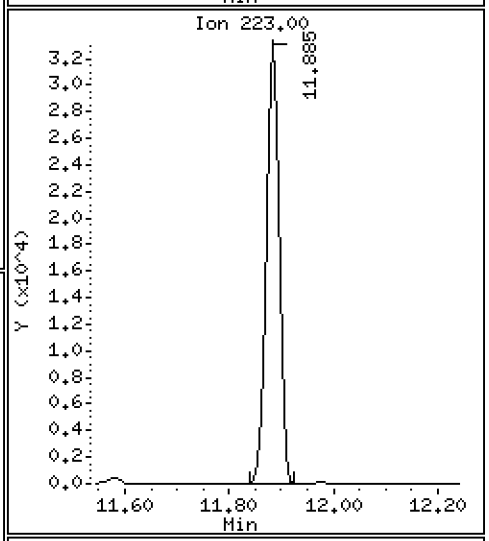


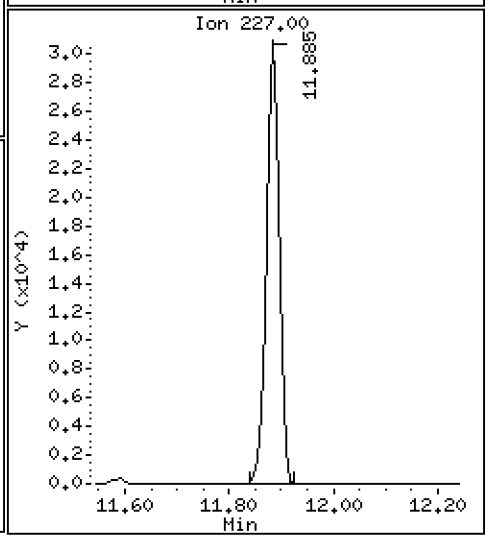












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

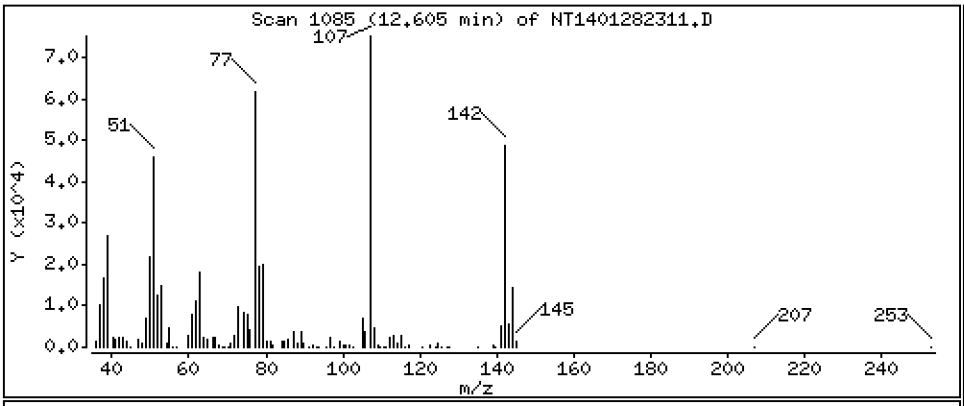
Operator: JGR

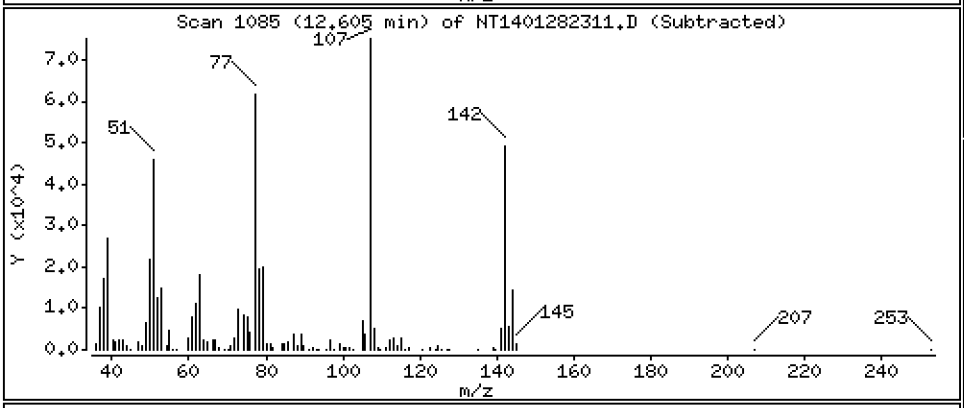
Column phase: ZB-5msi

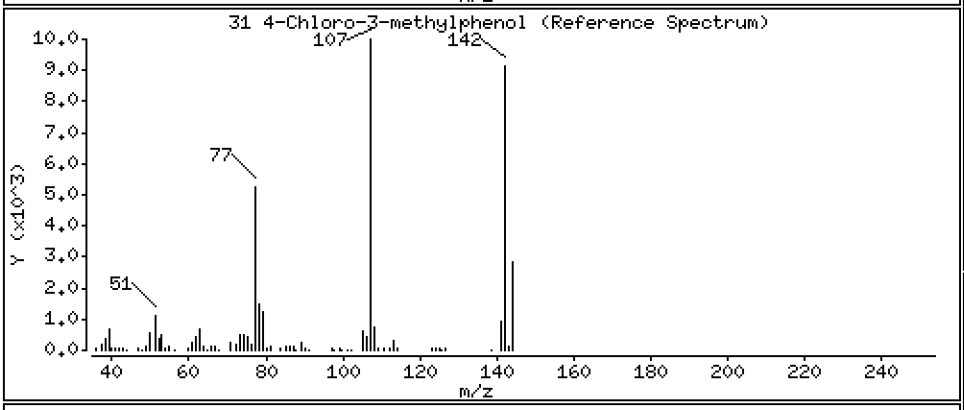
Column diameter: 0.25

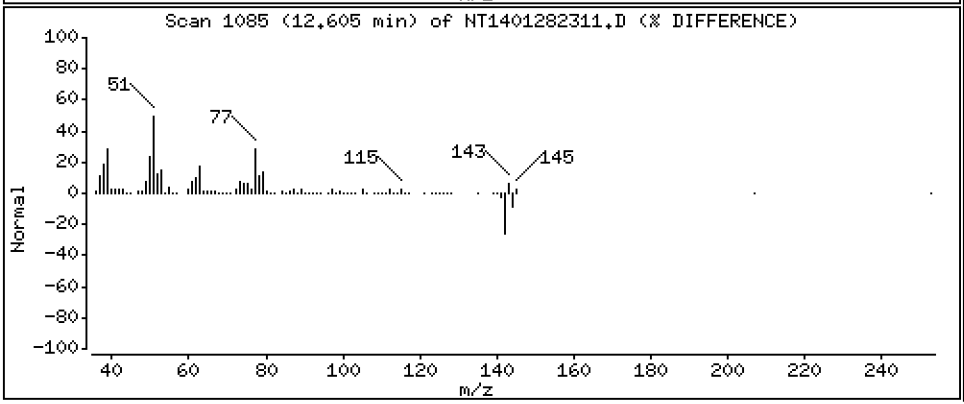
31 4-Chloro-3-methylphenol

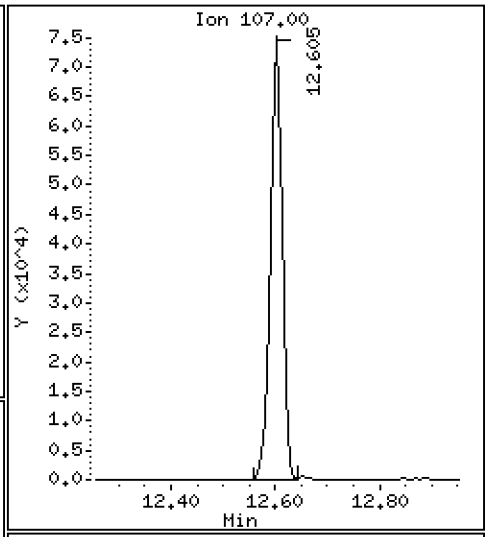
Concentration: 3.943 ug/mL

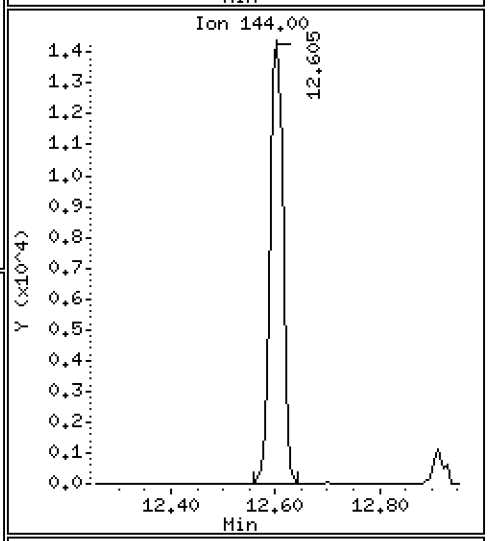


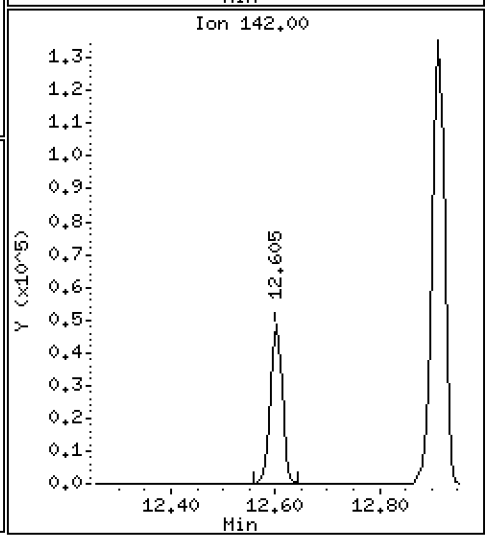












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

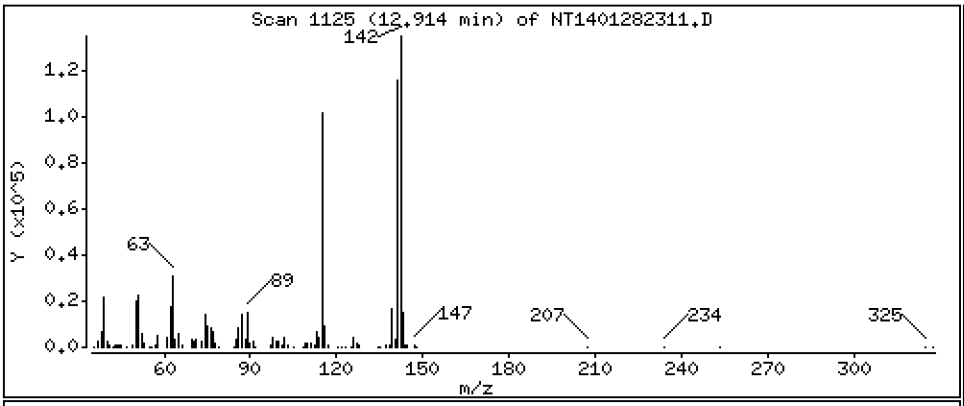
Operator: JGR

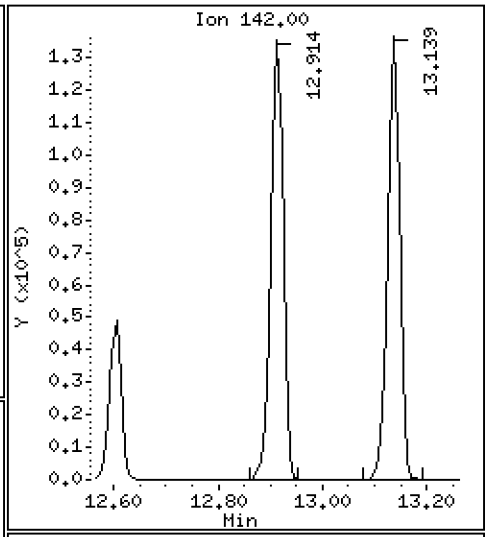
Column phase: ZB-5msi

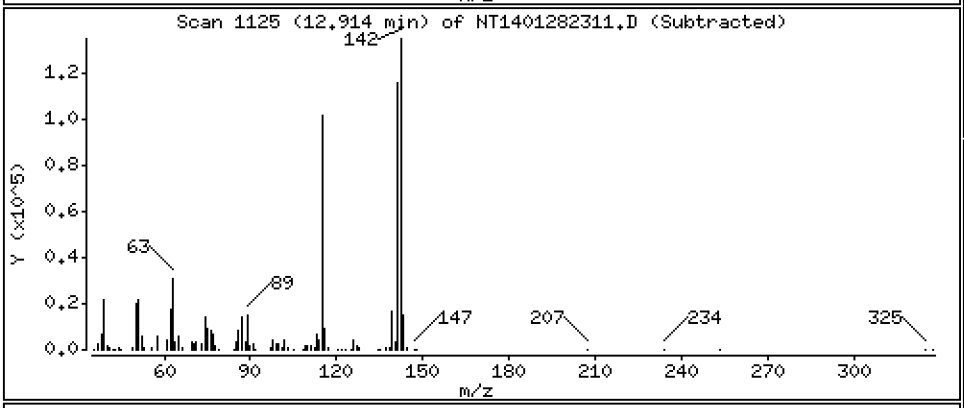
Column diameter: 0.25

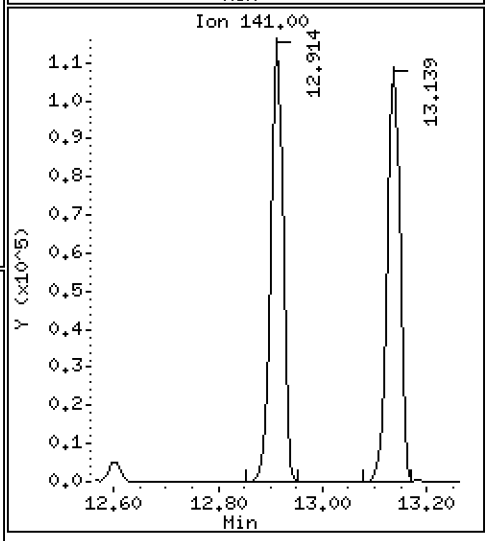
32 2-Methylnaphthalene

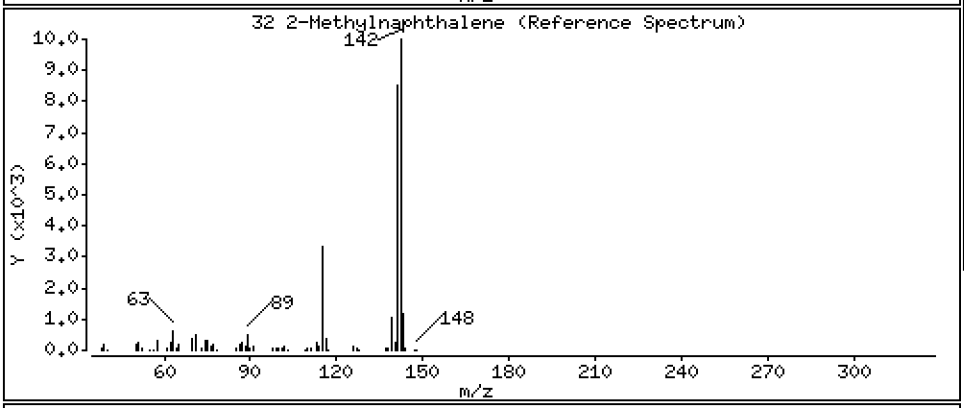
Concentration: 4.357 ug/mL

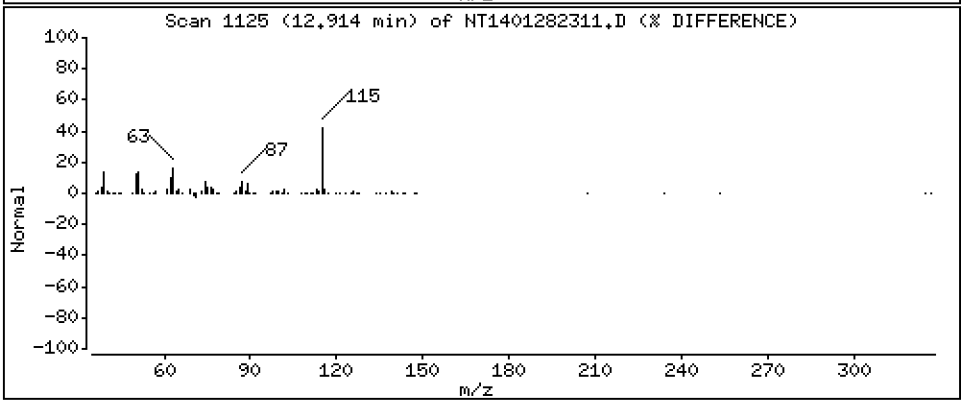












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

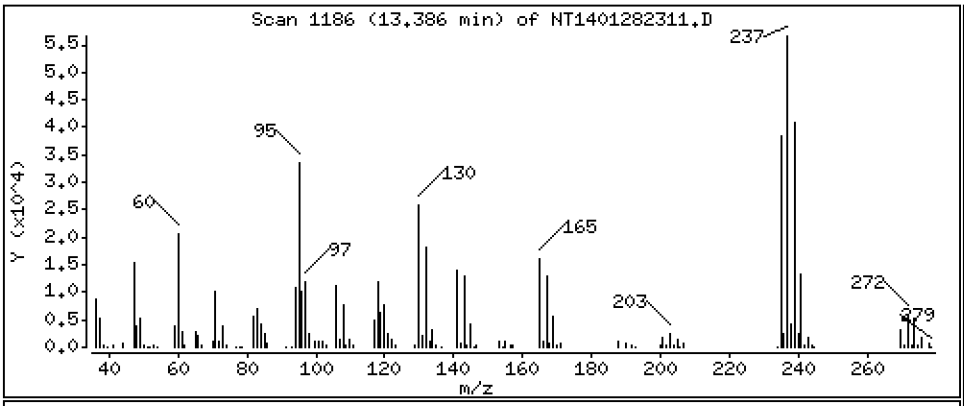
Operator: JGR

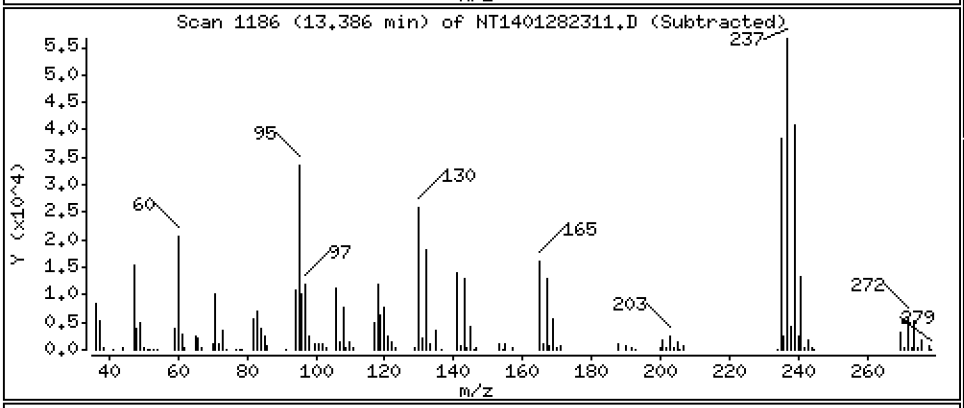
Column phase: ZB-5msi

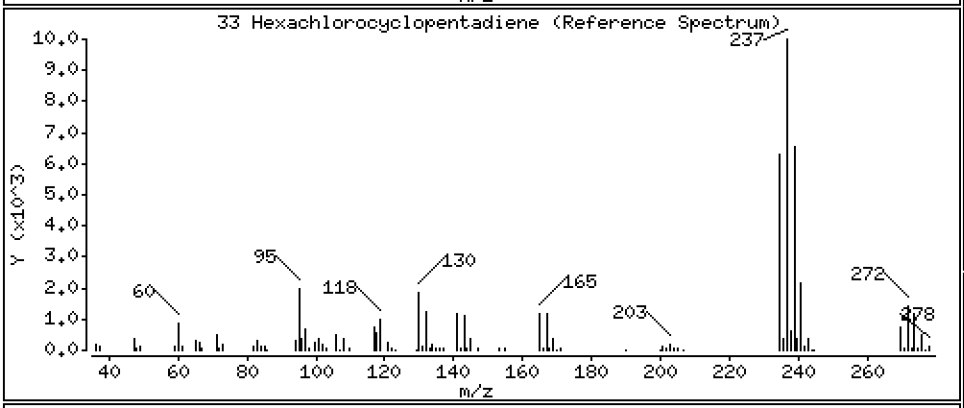
Column diameter: 0.25

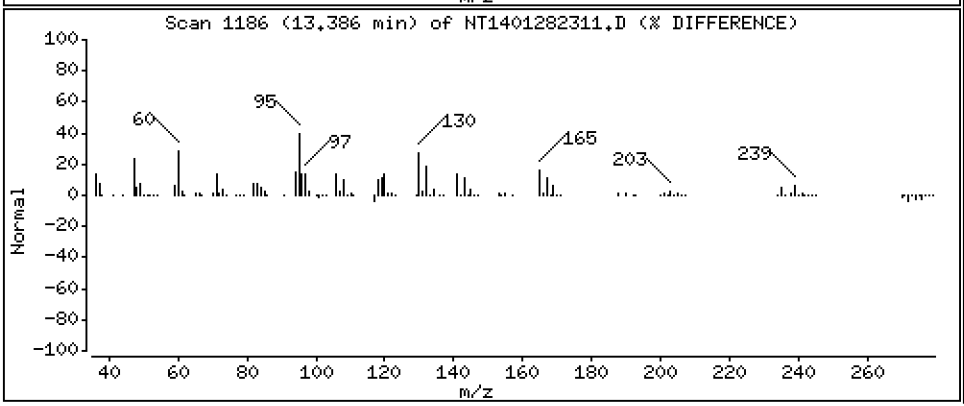
33 Hexachlorocyclopentadiene

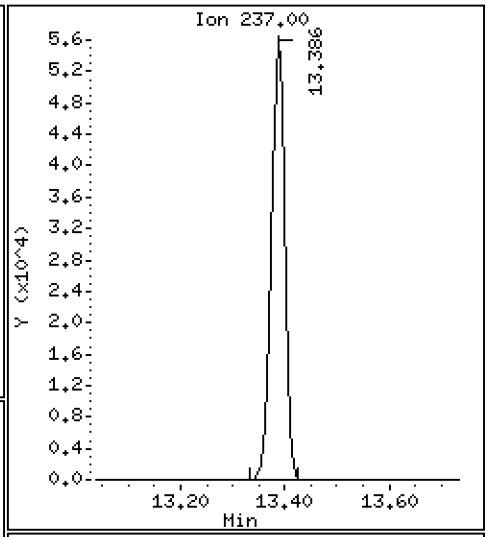
Concentration: 4.637 ug/mL

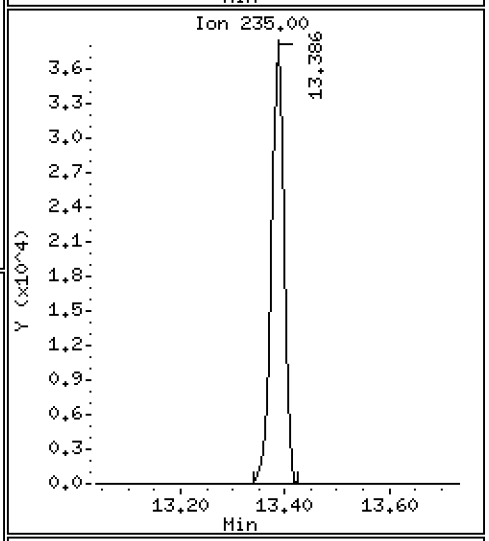


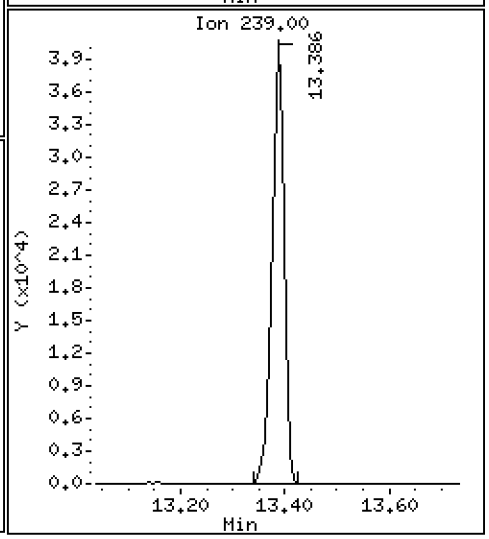












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

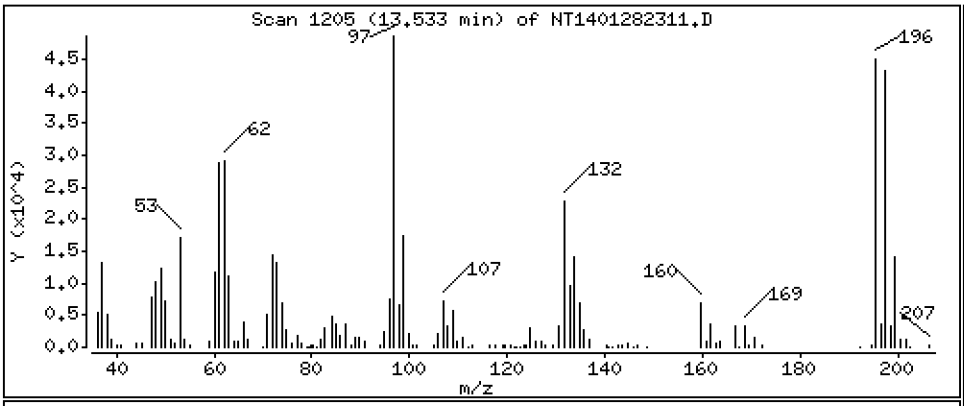
Operator: JGR

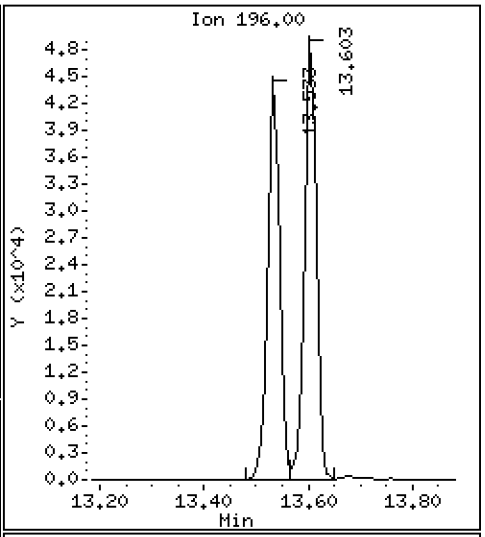
Column phase: ZB-5msi

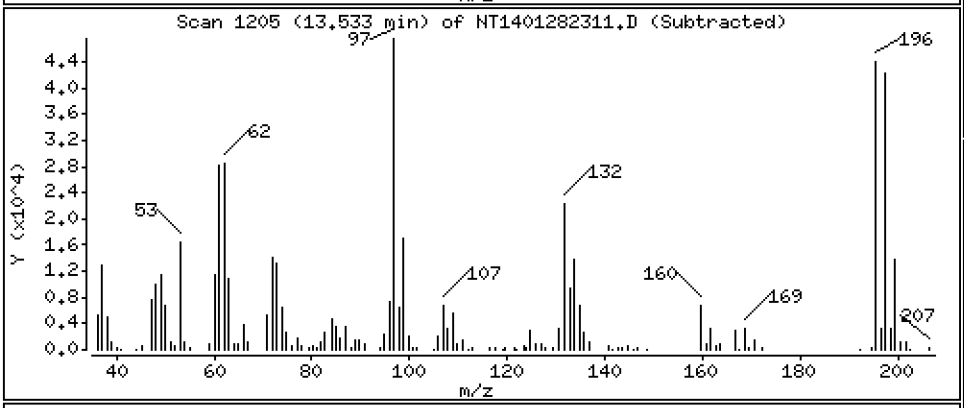
Column diameter: 0.25

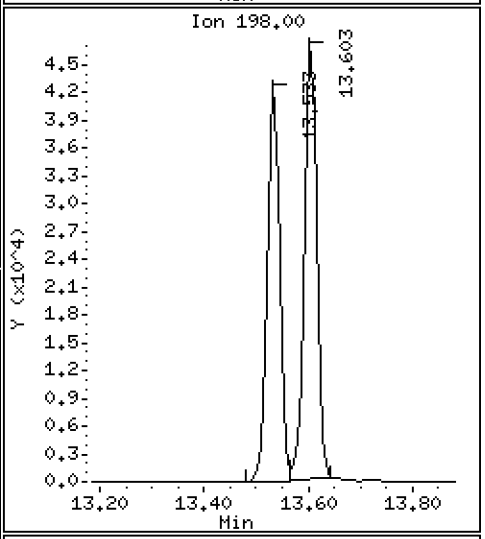
34 2,4,6-Trichlorophenol

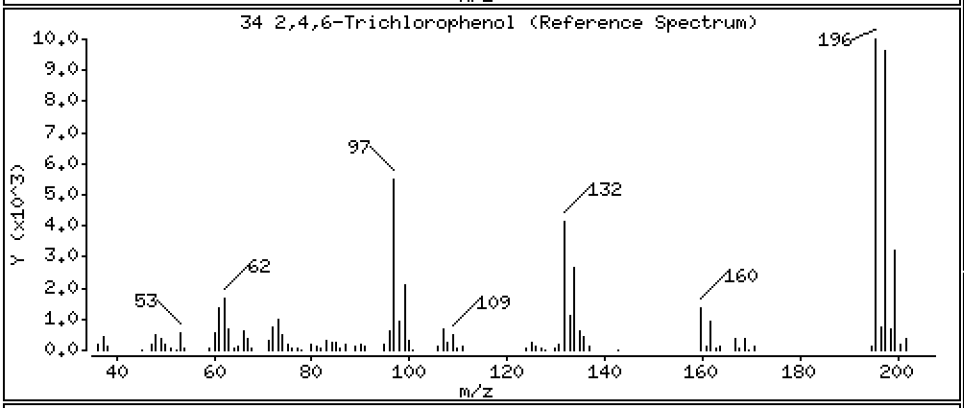
Concentration: 3.710 ug/mL

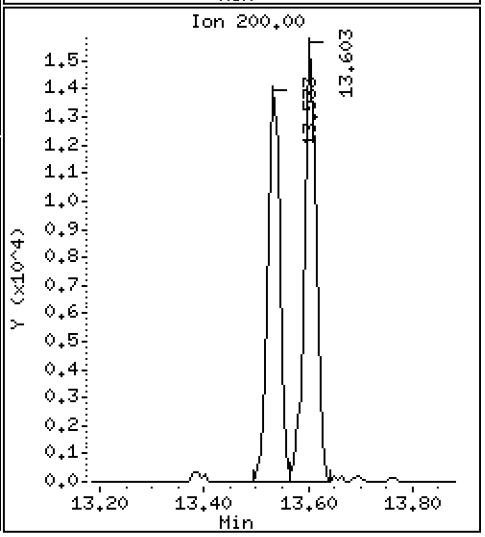


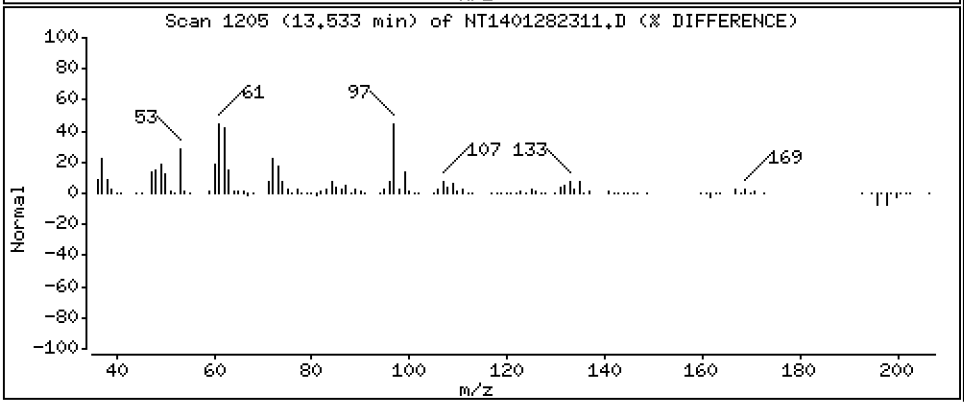












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

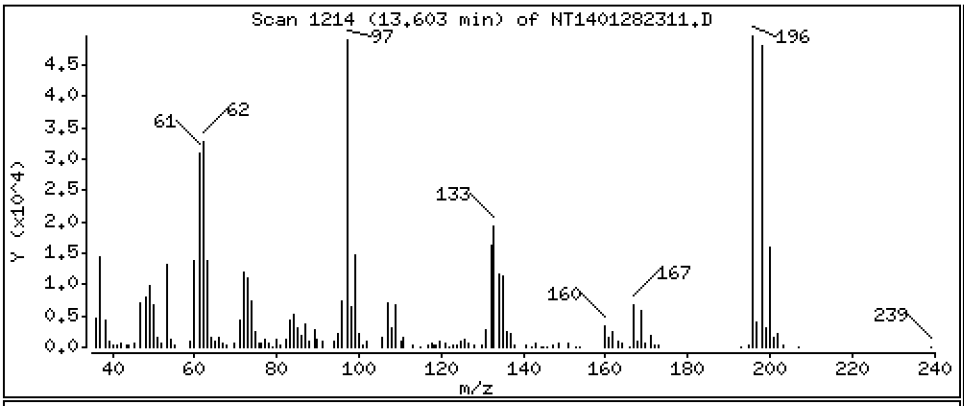
Operator: JGR

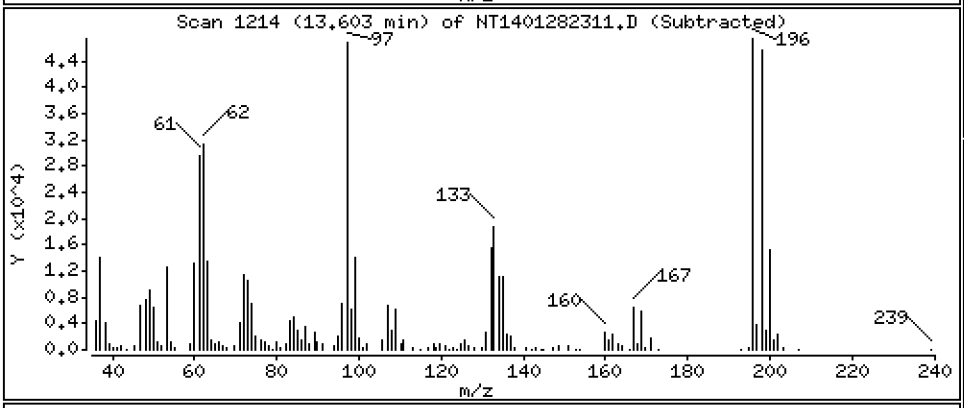
Column phase: ZB-5msi

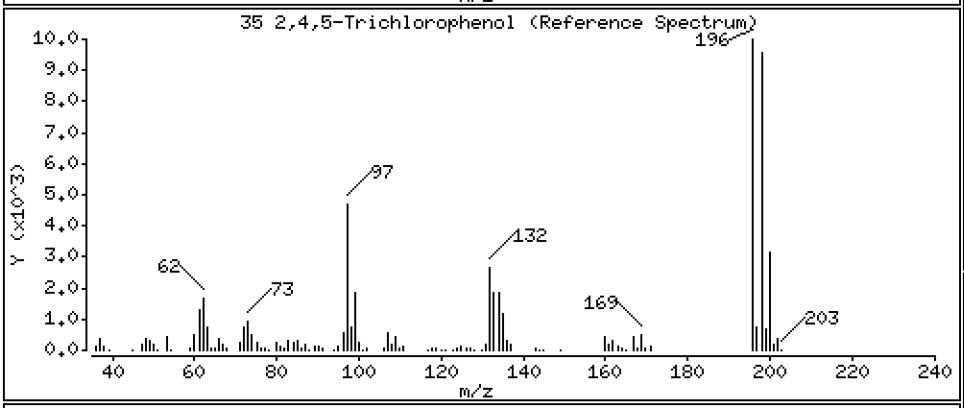
Column diameter: 0.25

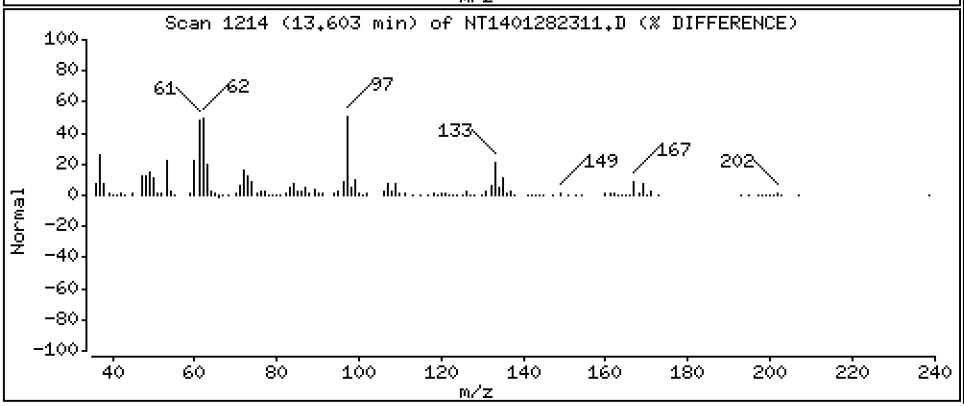
35 2,4,5-Trichlorophenol

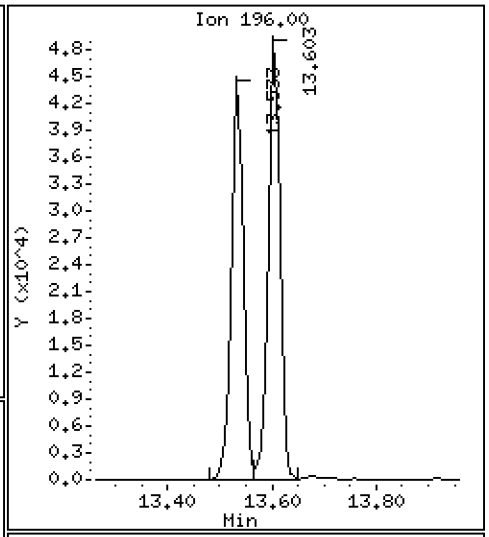
Concentration: 3.616 ug/mL

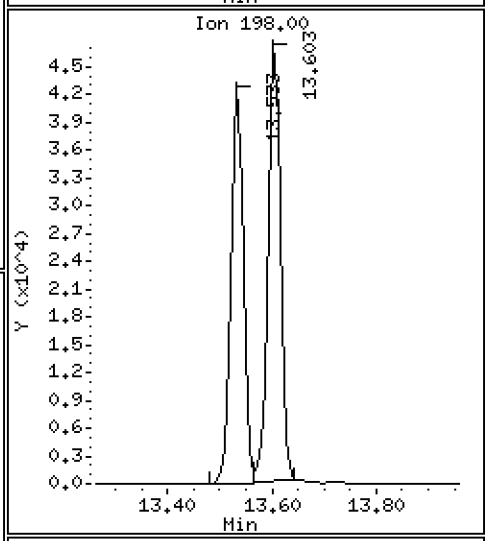


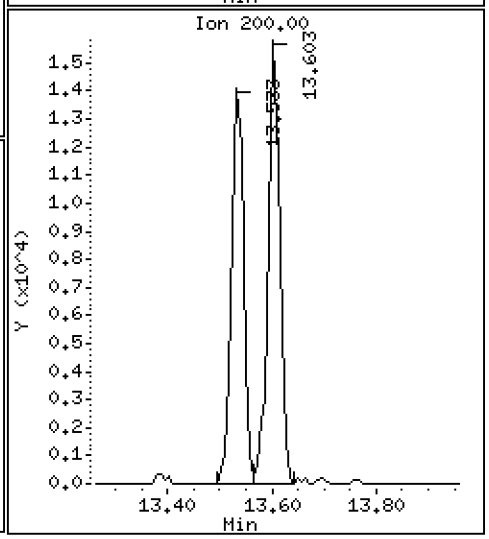












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

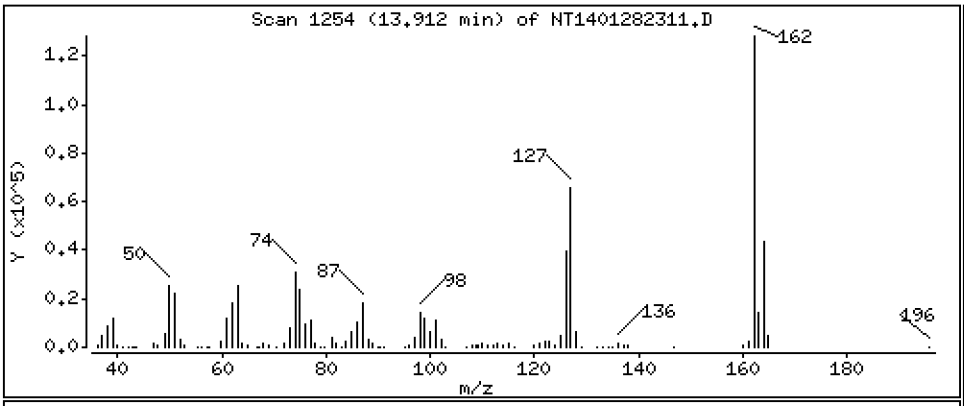
Operator: JGR

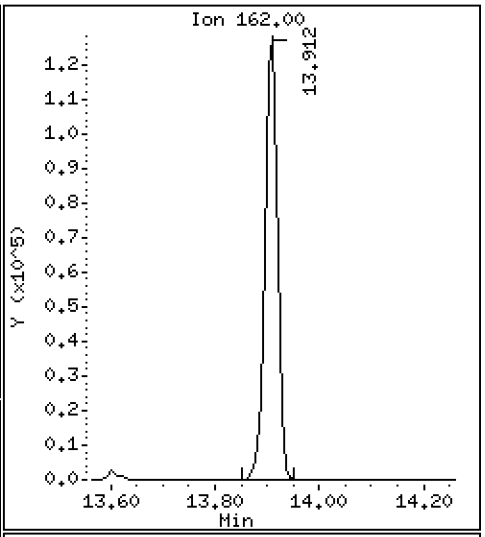
Column phase: ZB-5msi

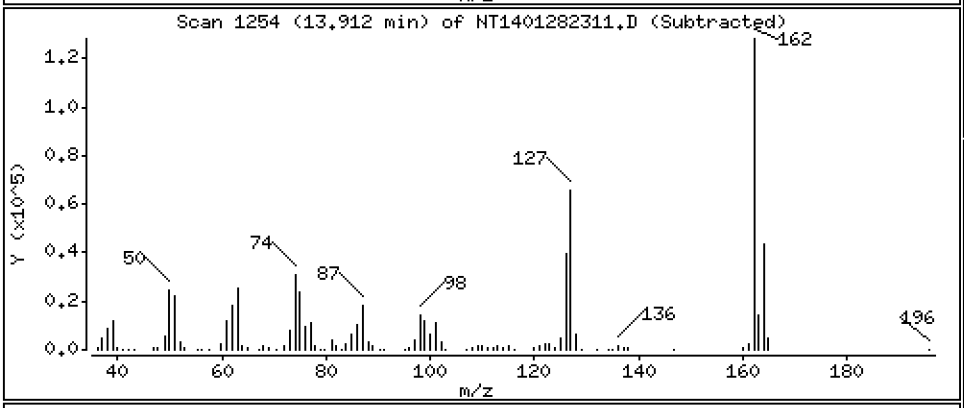
Column diameter: 0.25

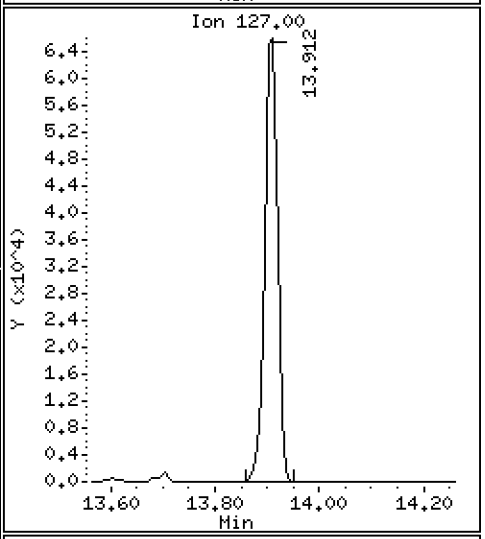
37 2-Chloronaphthalene

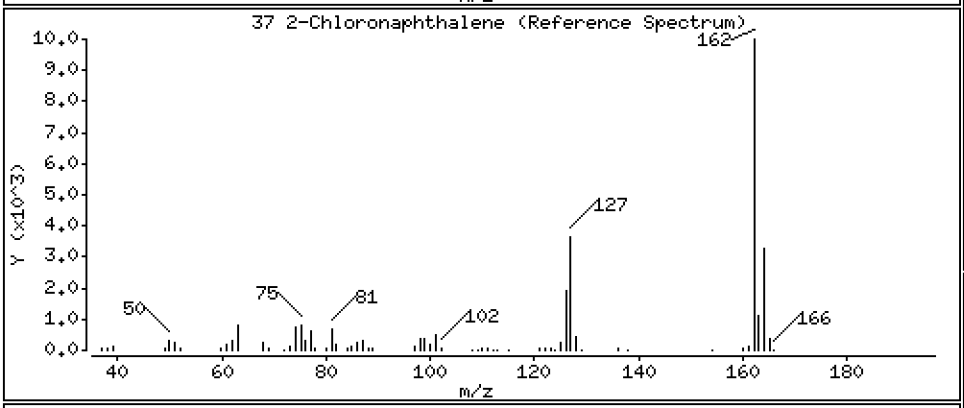
Concentration: 4.704 ug/mL

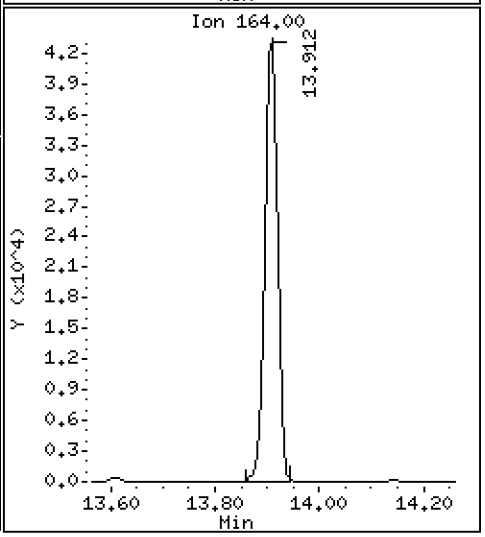


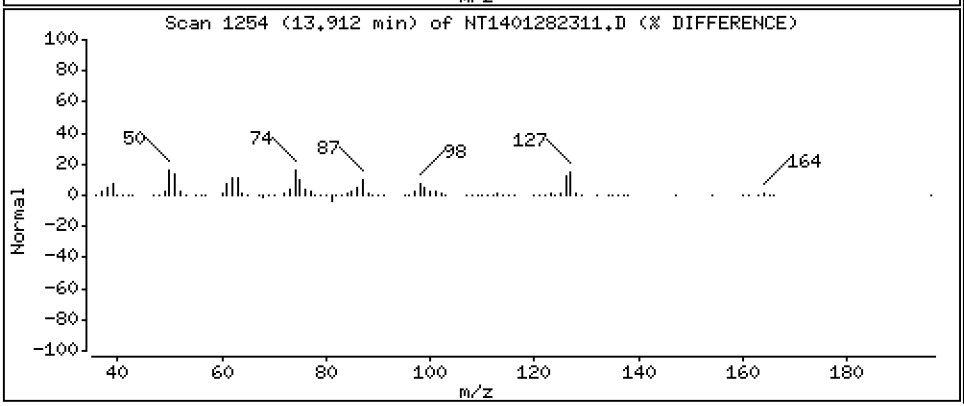












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

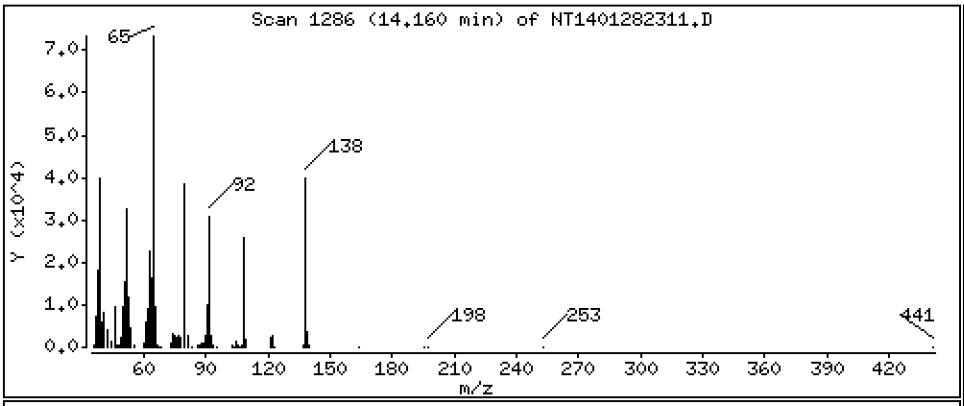
Operator: JGR

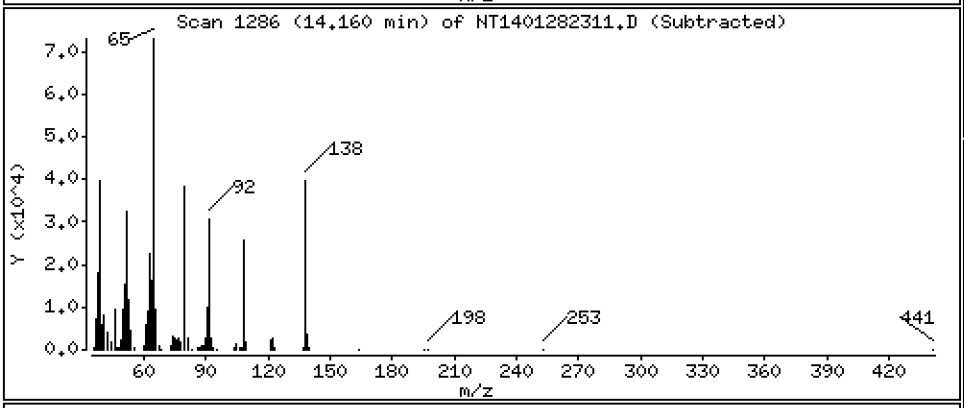
Column phase: ZB-5msi

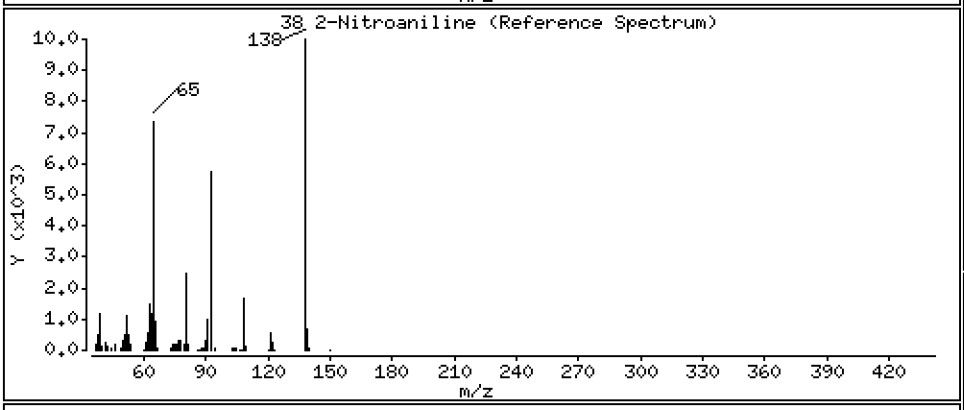
Column diameter: 0.25

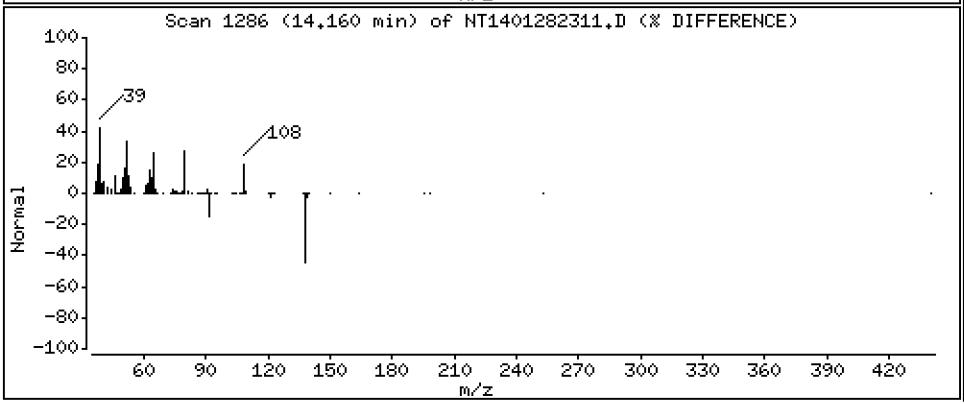
38 2-Nitroaniline

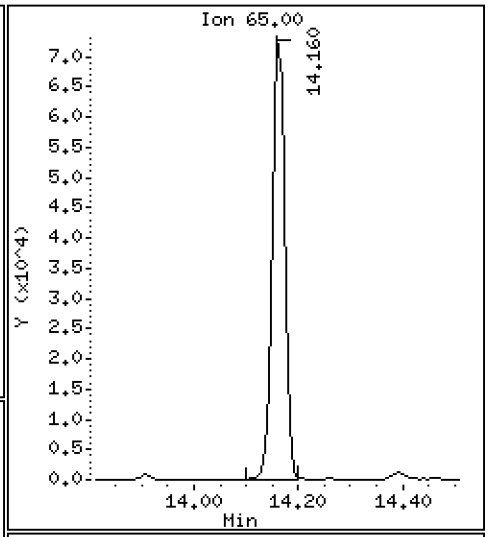
Concentration: 4.509 ug/mL

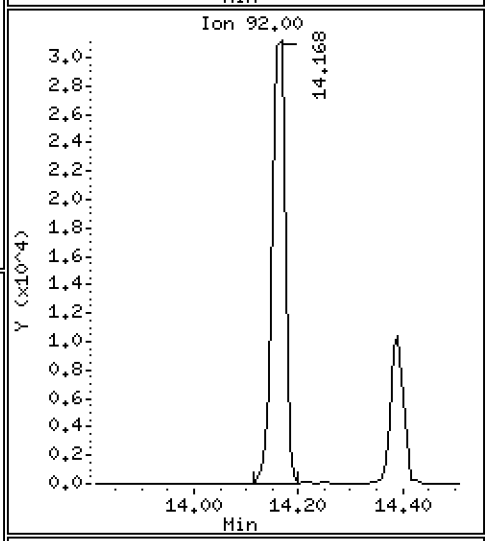


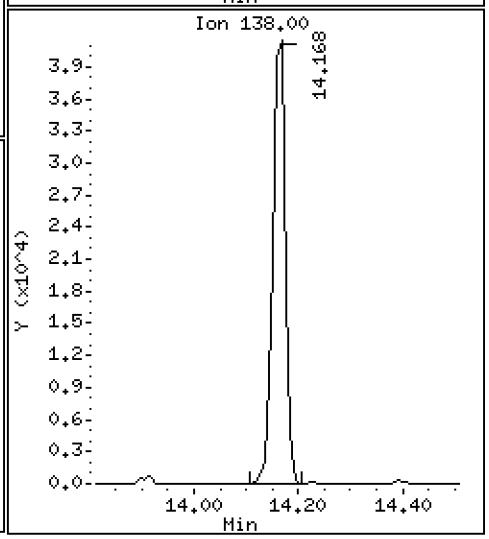












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

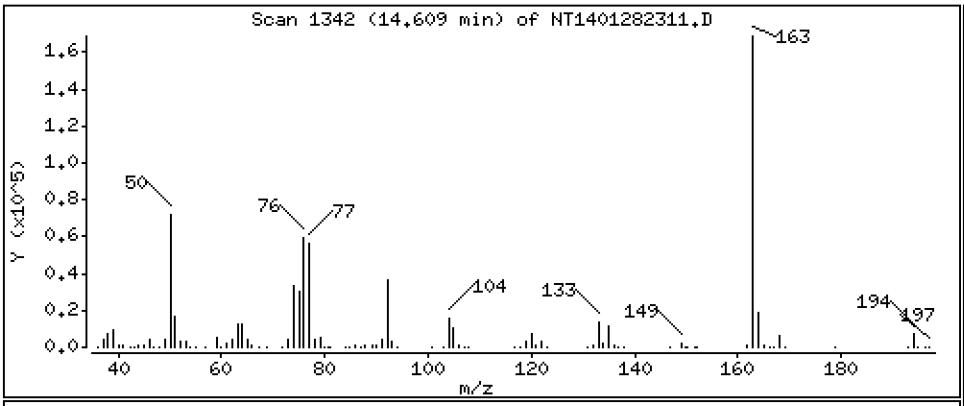
Operator: JGR

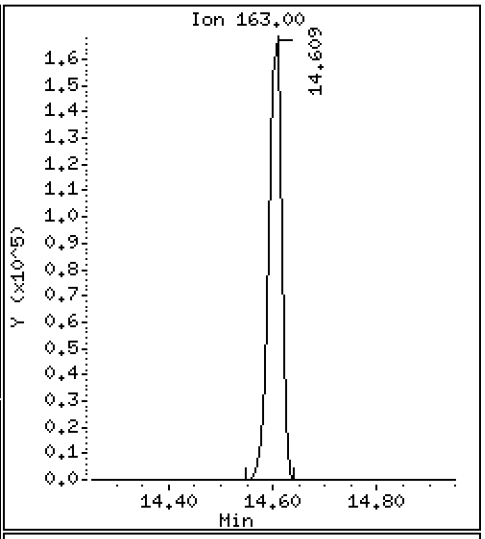
Column phase: ZB-5msi

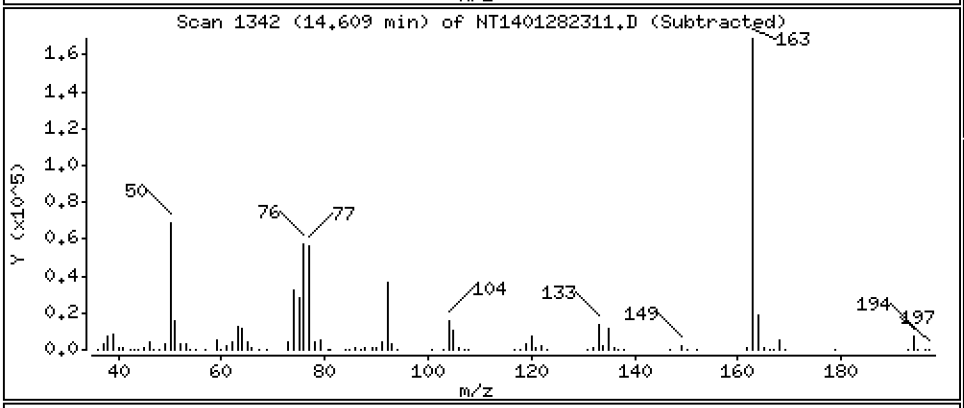
Column diameter: 0.25

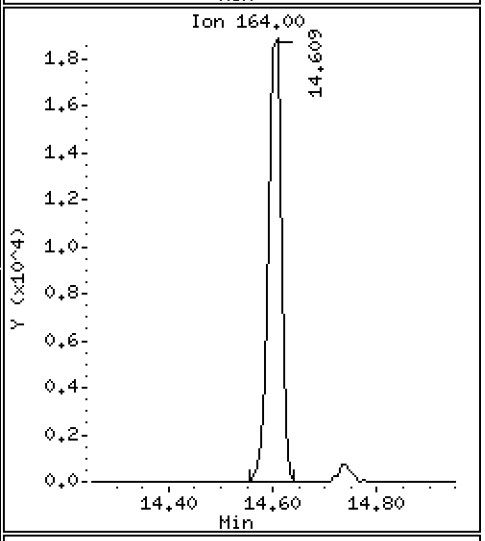
39 Dimethylphthalate

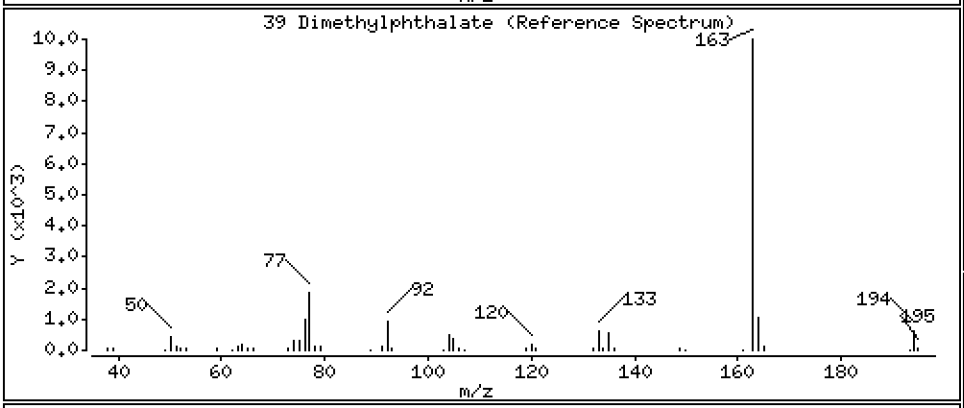
Concentration: 4.875 ug/mL

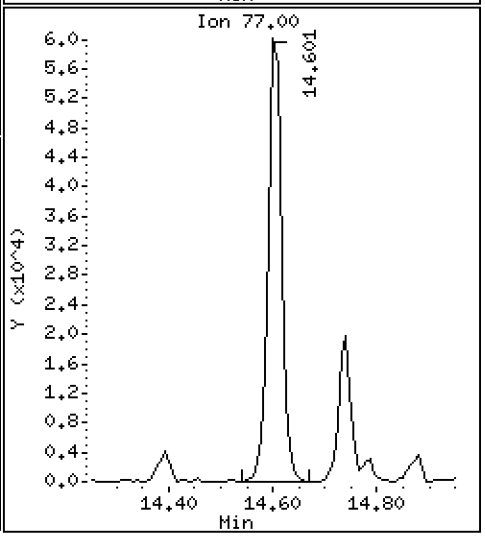


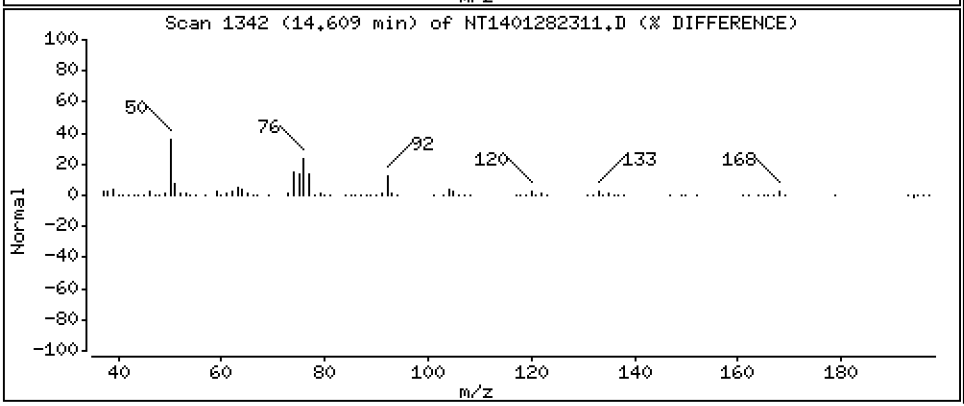












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

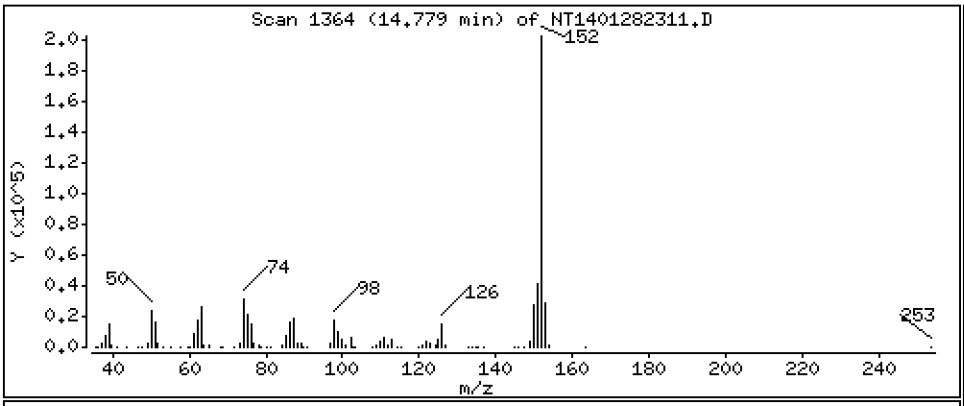
Operator: JGR

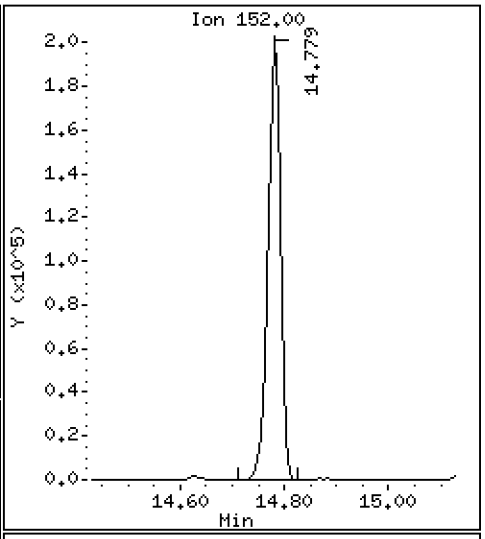
Column phase: ZB-5msi

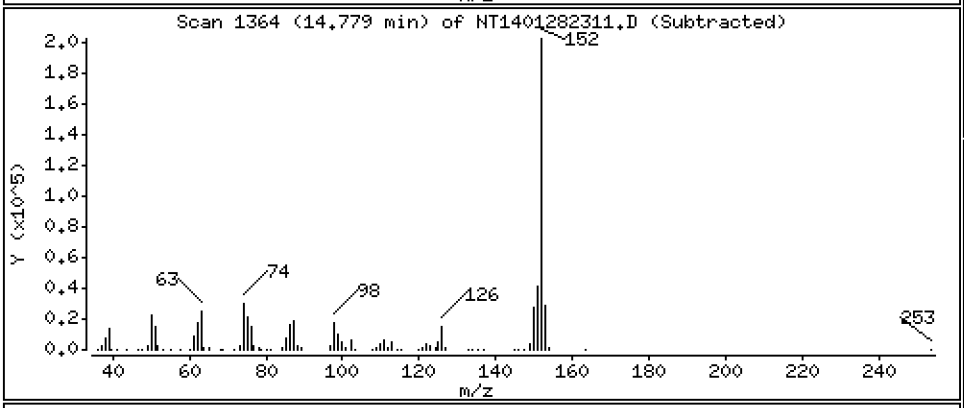
Column diameter: 0.25

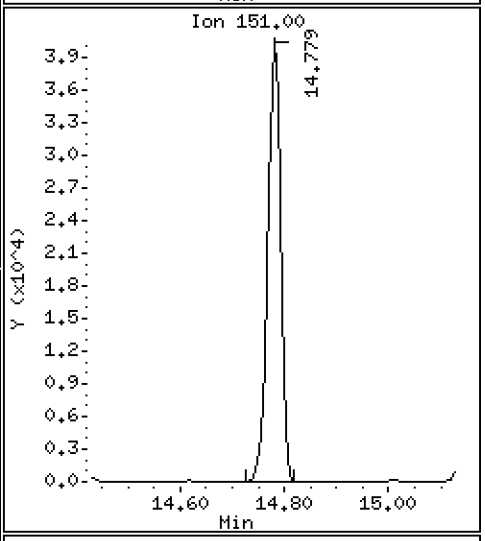
40 Acenaphthylene

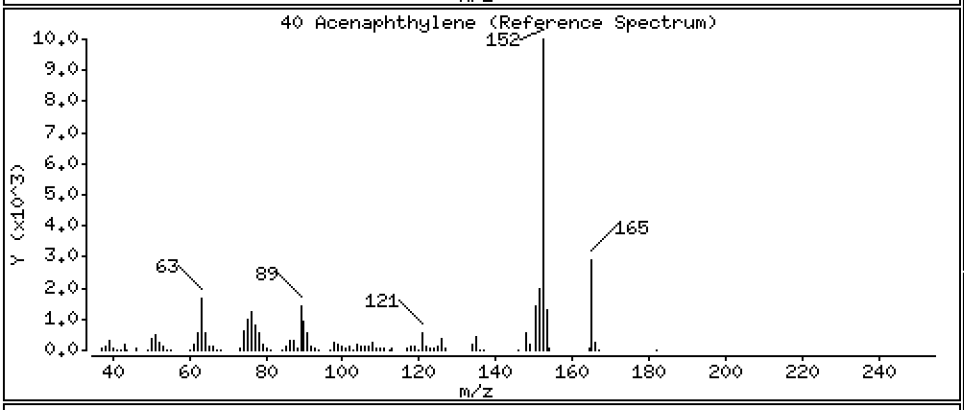
Concentration: 4.695 ug/mL

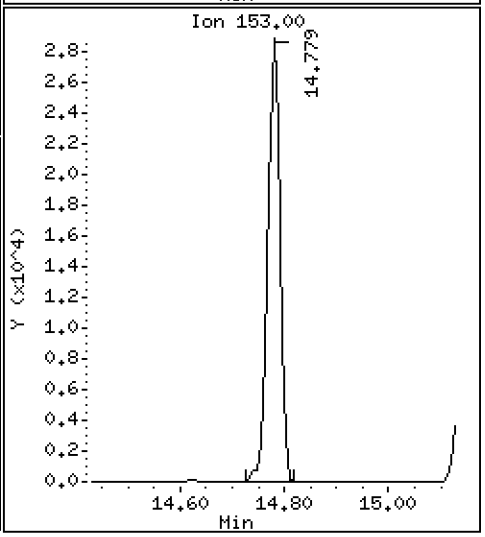


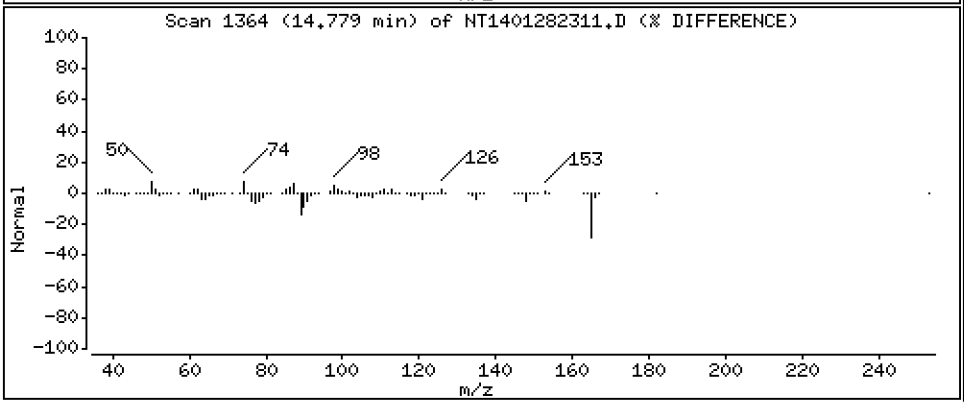












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

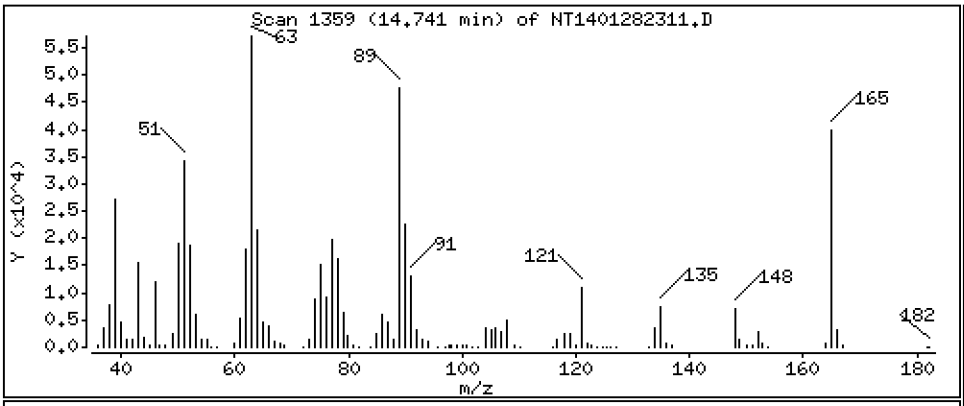
Operator: JGR

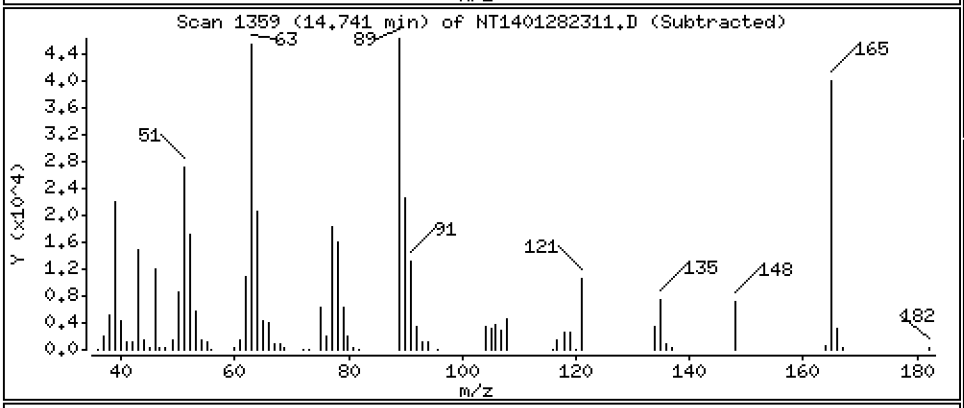
Column phase: ZB-5msi

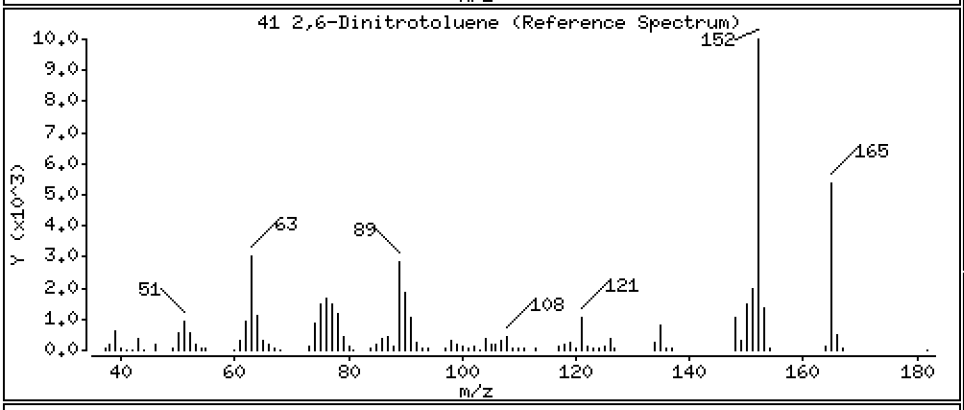
Column diameter: 0.25

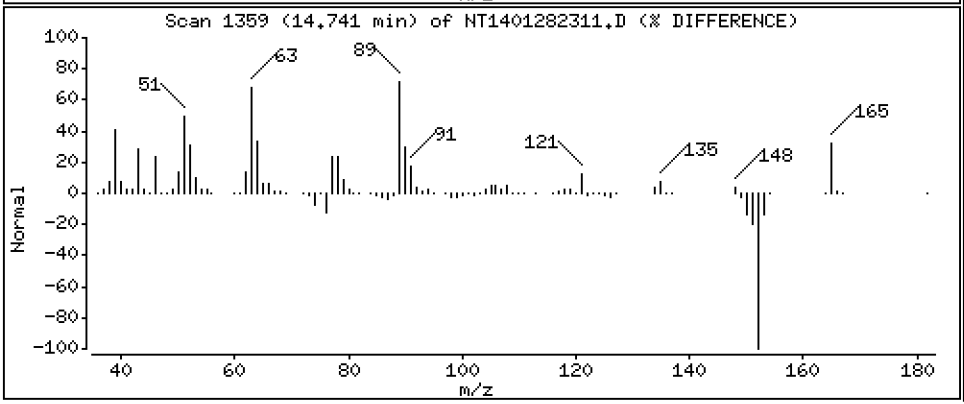
41 2,6-Dinitrotoluene

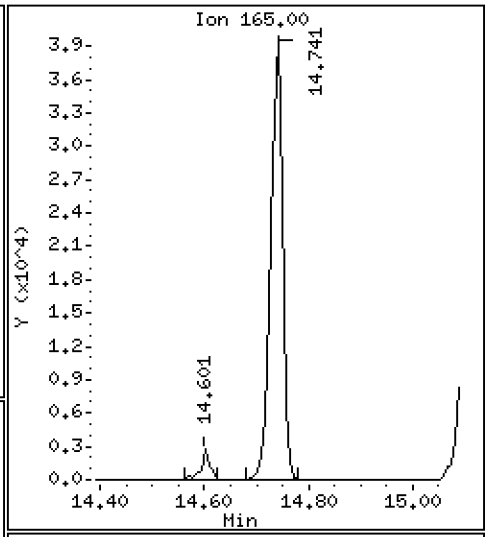
Concentration: 4.603 ug/mL

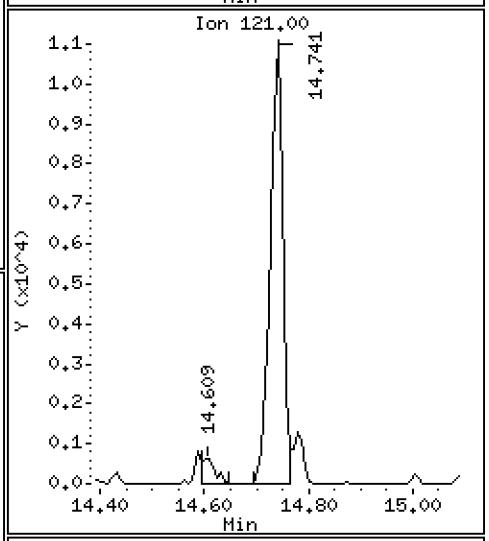


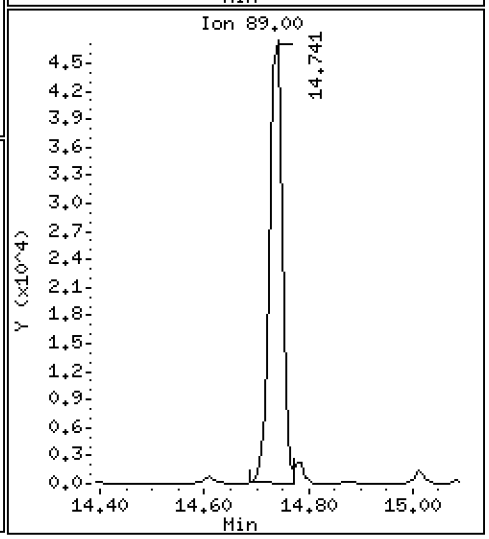












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

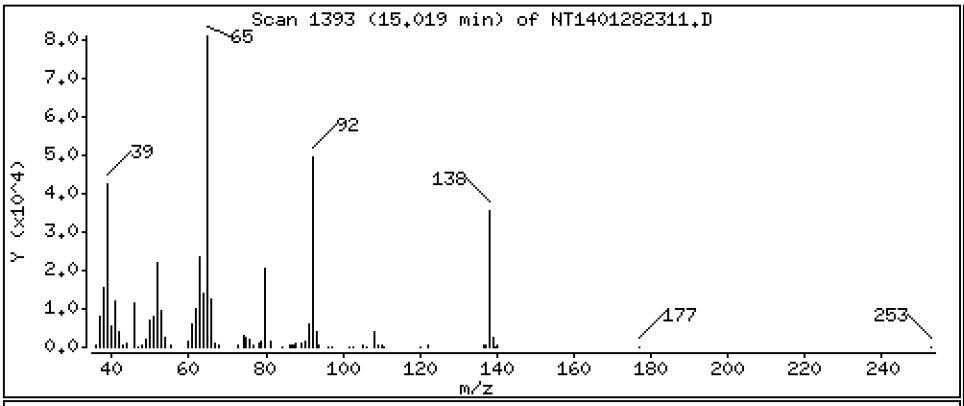
Operator: JGR

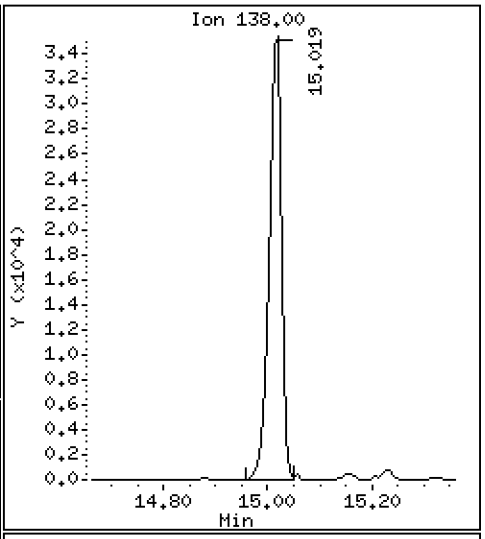
Column phase: ZB-5msi

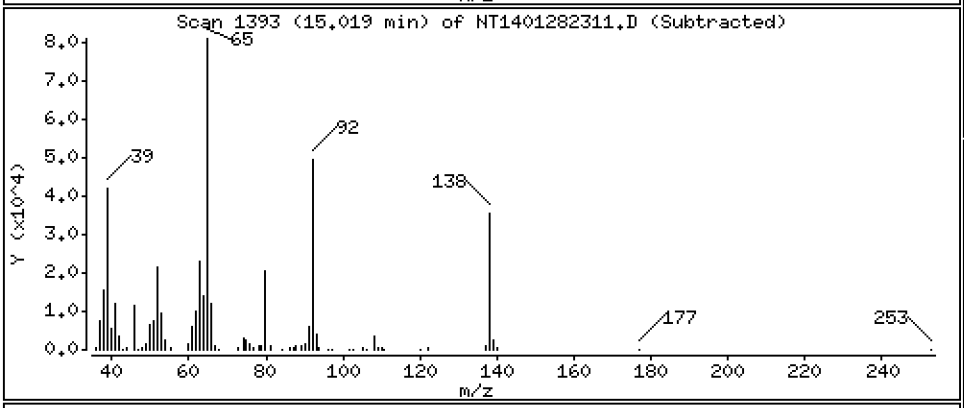
Column diameter: 0.25

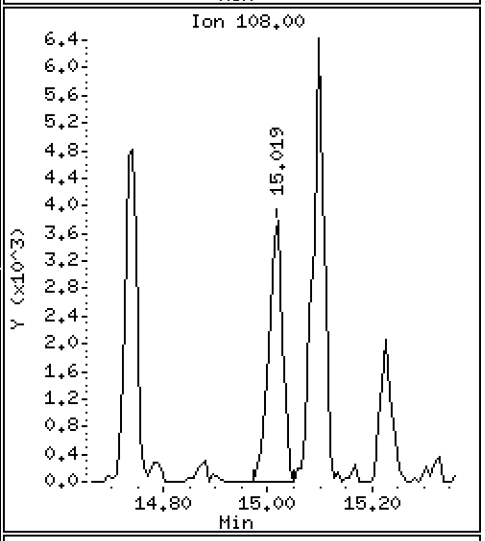
43 3-Nitroaniline

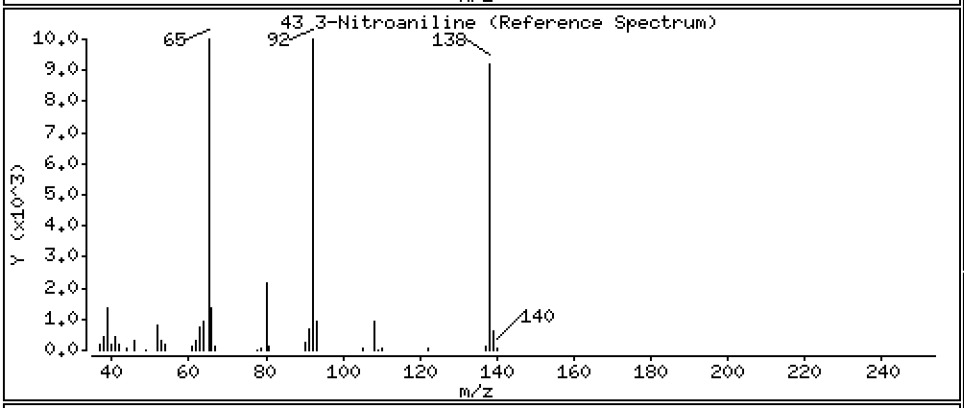
Concentration: 4.476 ug/mL

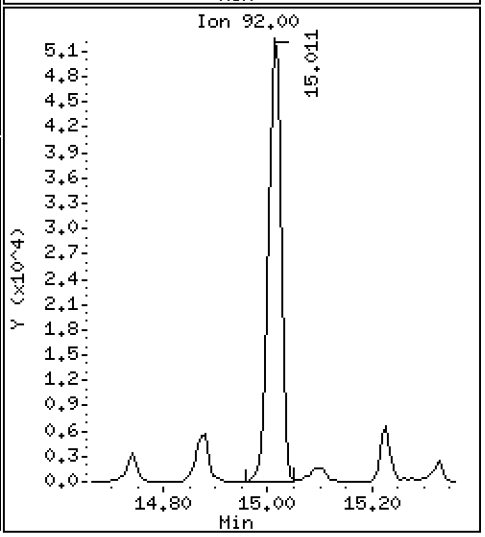


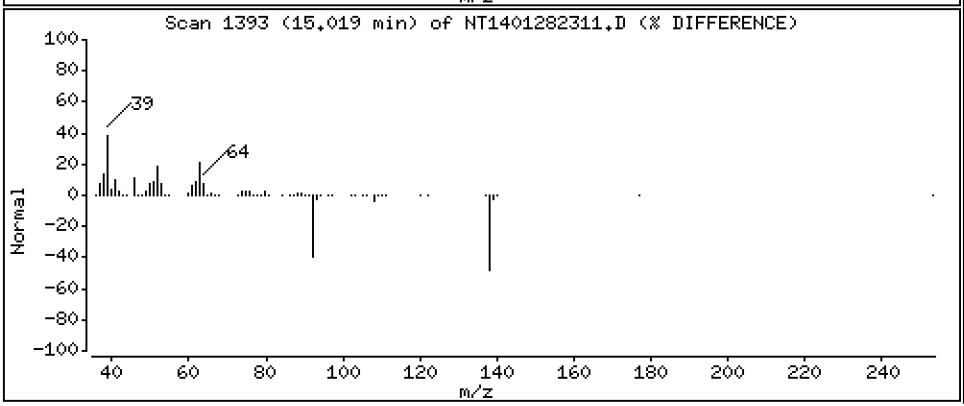












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

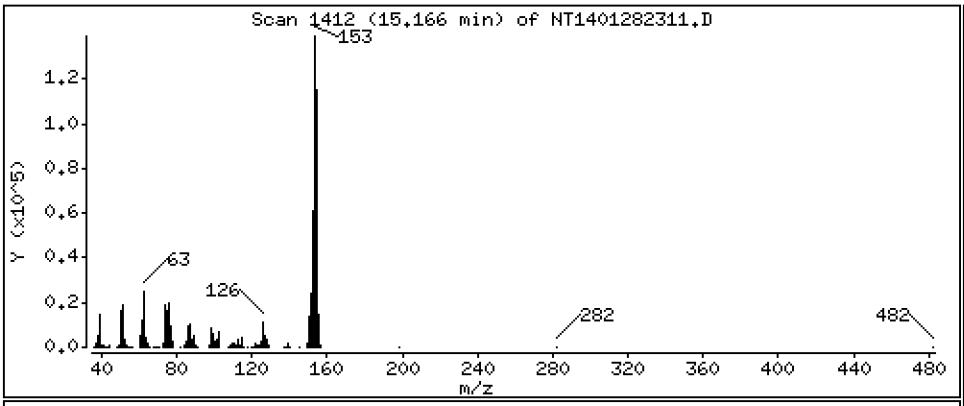
Operator: JGR

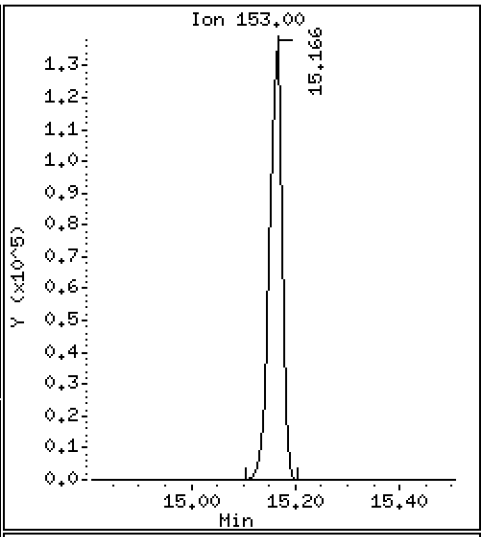
Column phase: ZB-5msi

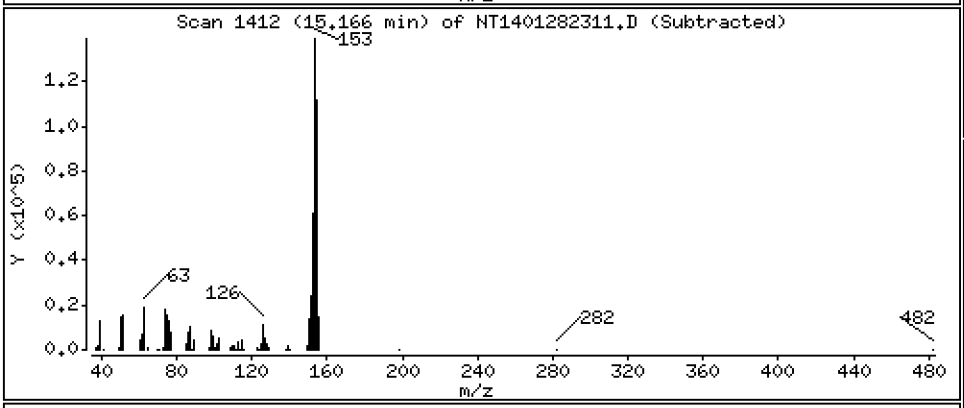
Column diameter: 0.25

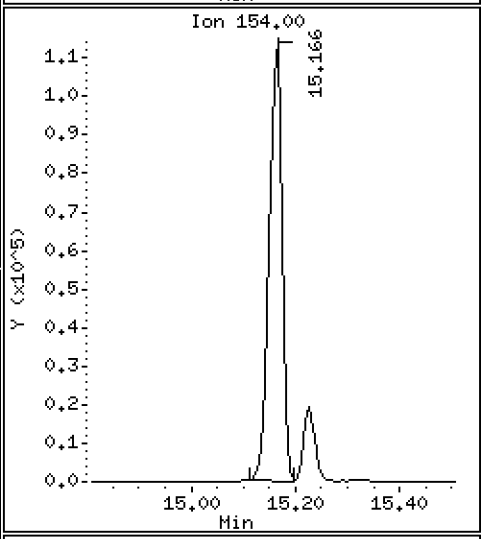
44 Acenaphthene

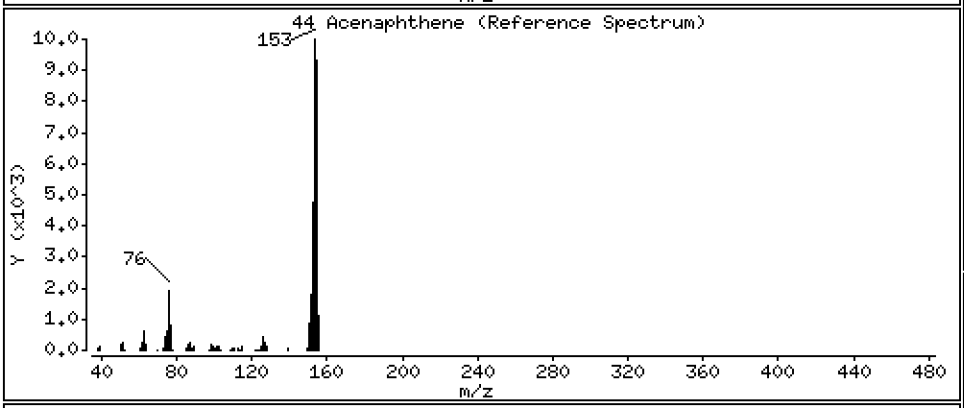
Concentration: 4.827 ug/mL

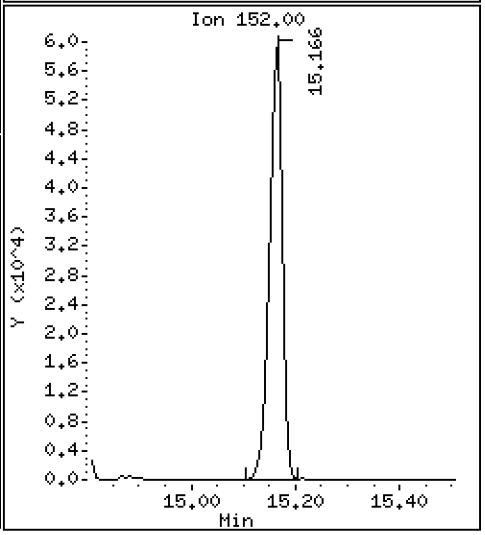


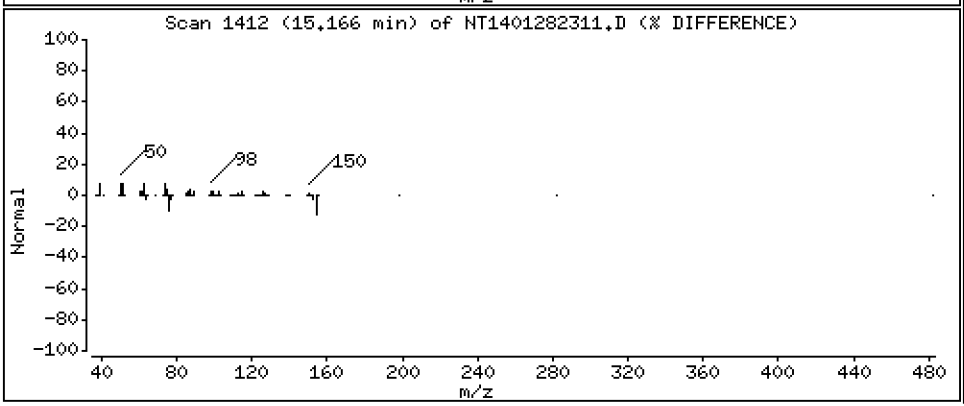












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

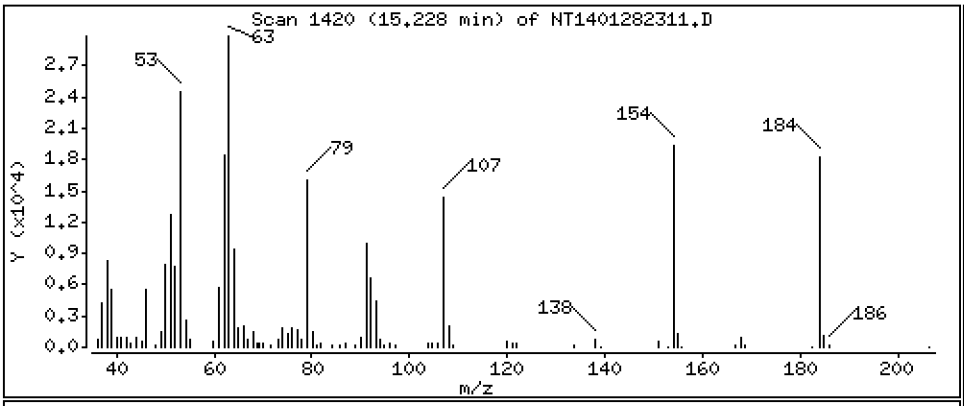
Operator: JGR

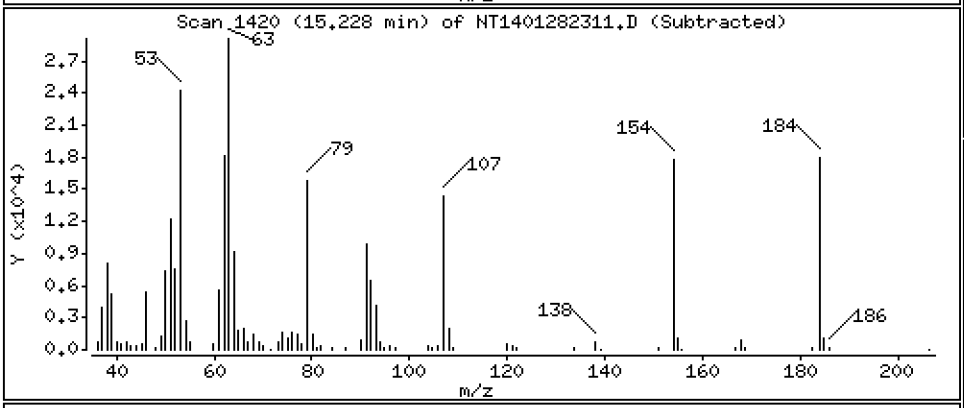
Column phase: ZB-5msi

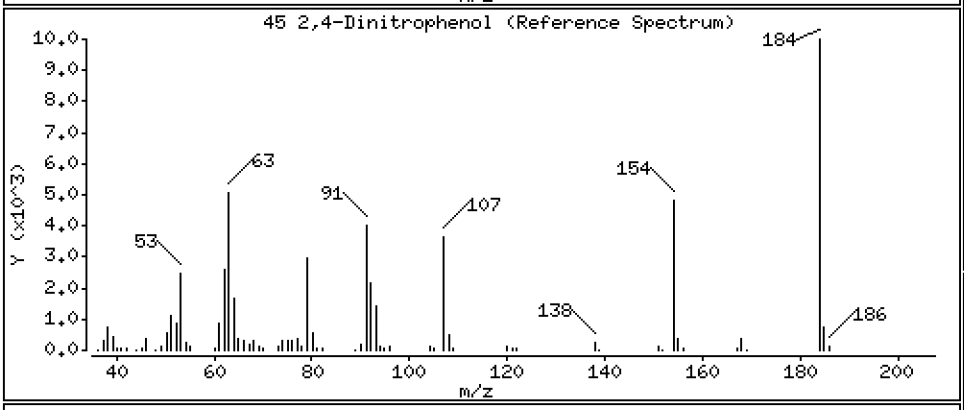
Column diameter: 0.25

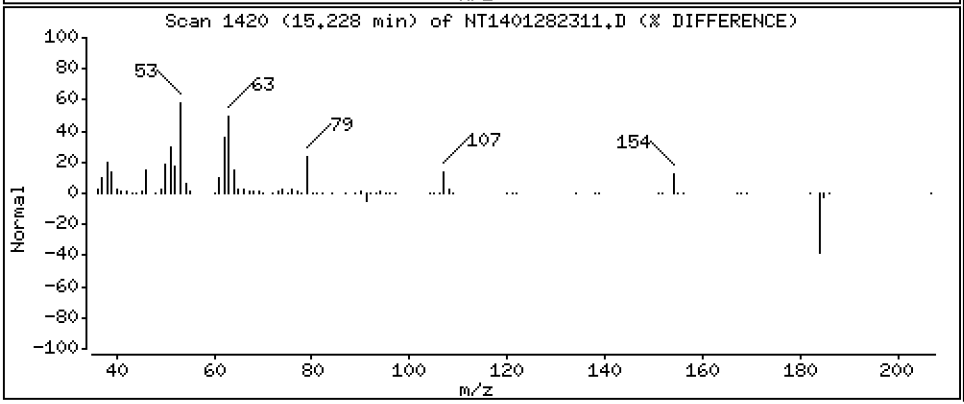
45 2,4-Dinitrophenol

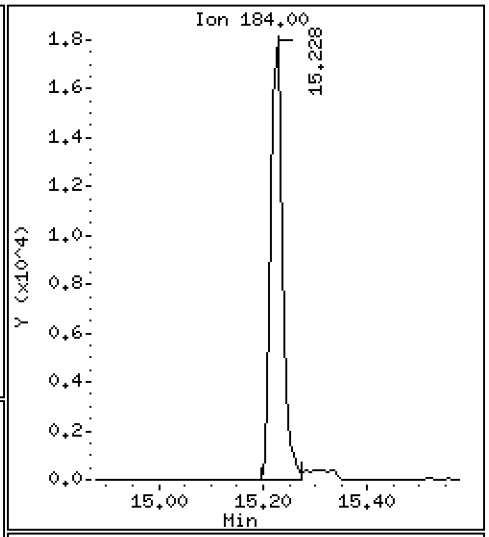
Concentration: 2.106 ug/mL

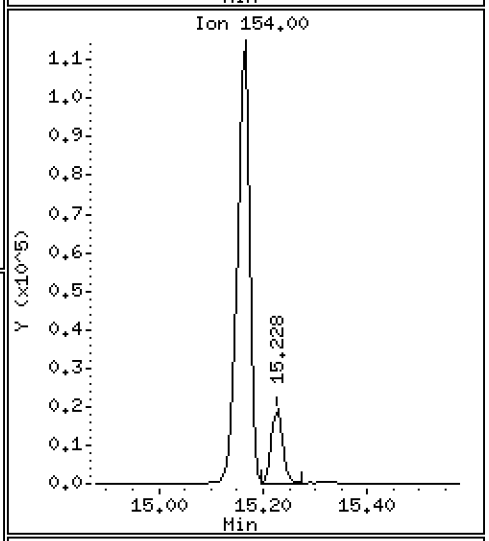


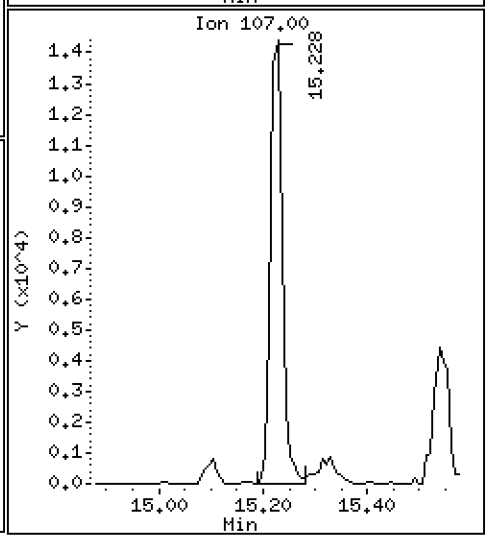












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

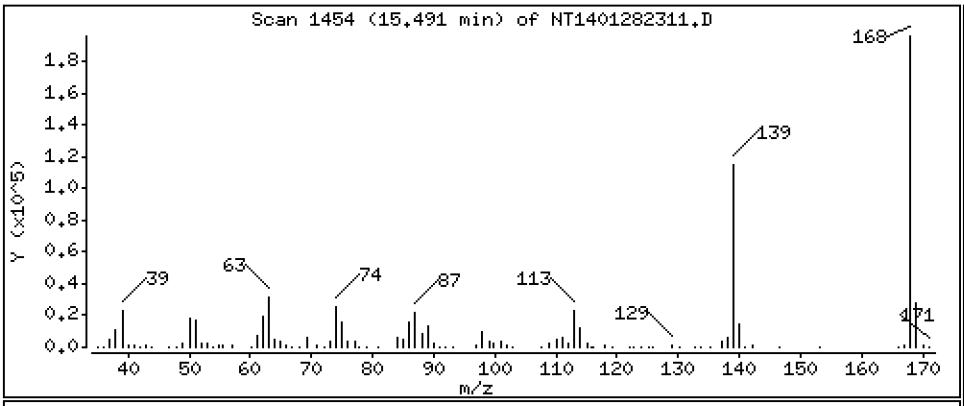
Operator: JGR

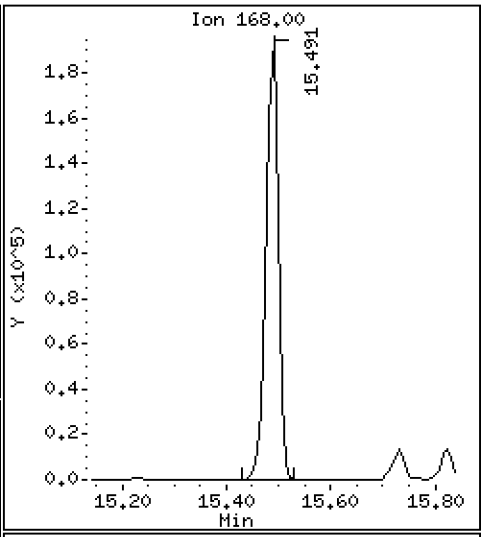
Column phase: ZB-5msi

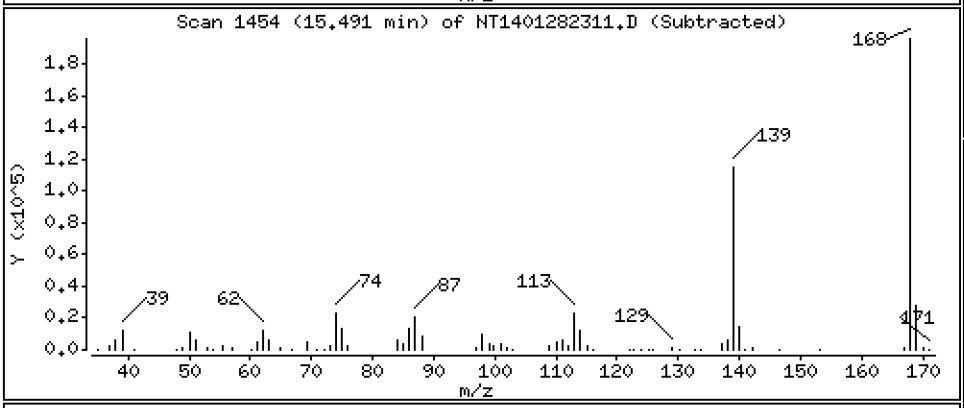
Column diameter: 0.25

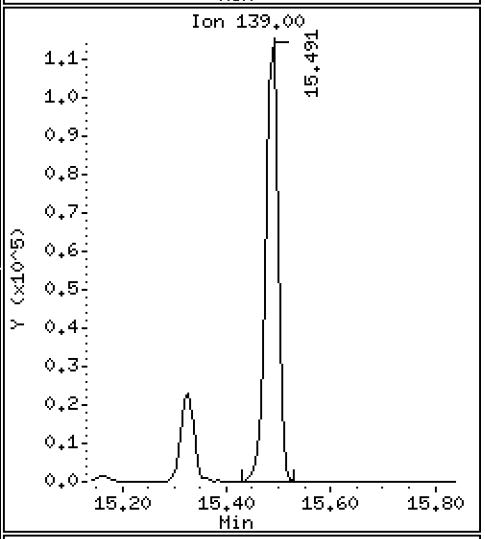
46 Dibenzofuran

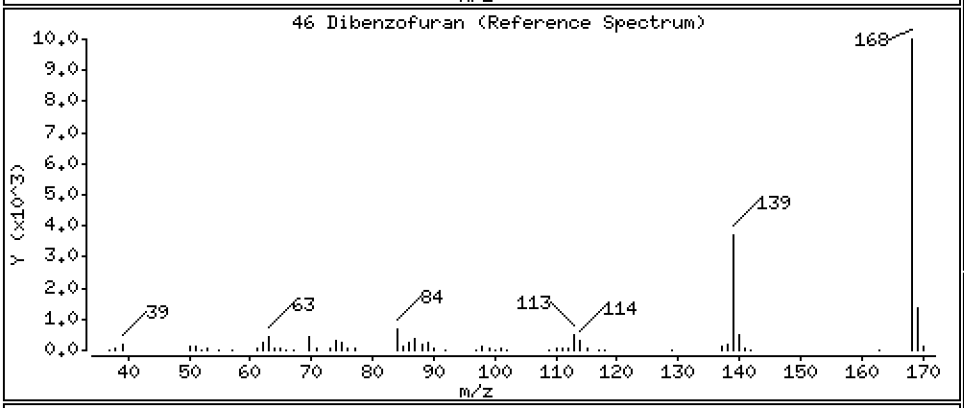
Concentration: 4.553 ug/mL

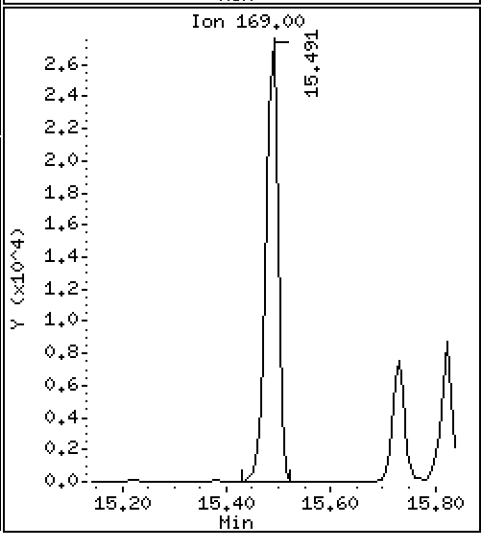


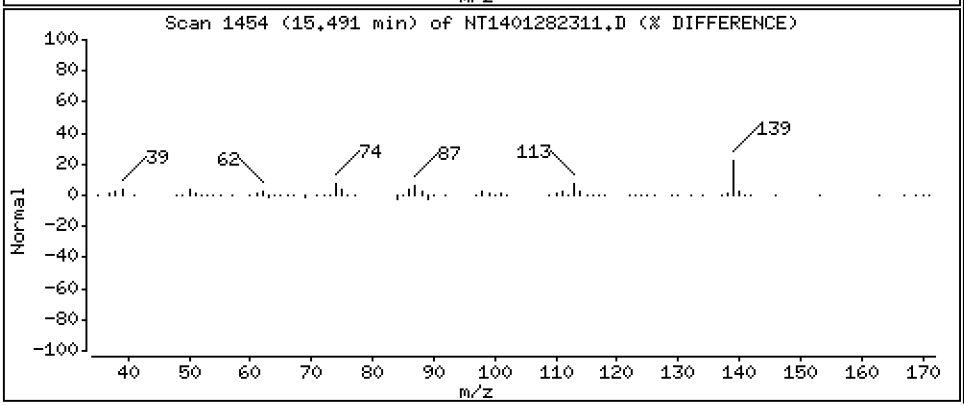












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

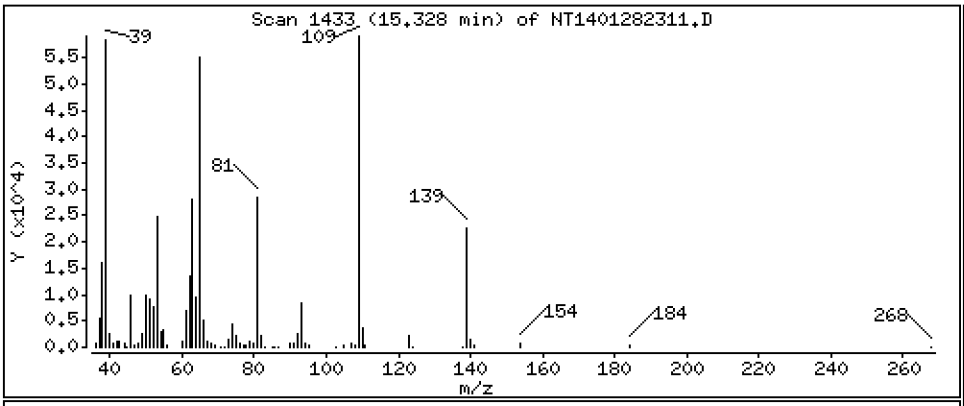
Operator: JGR

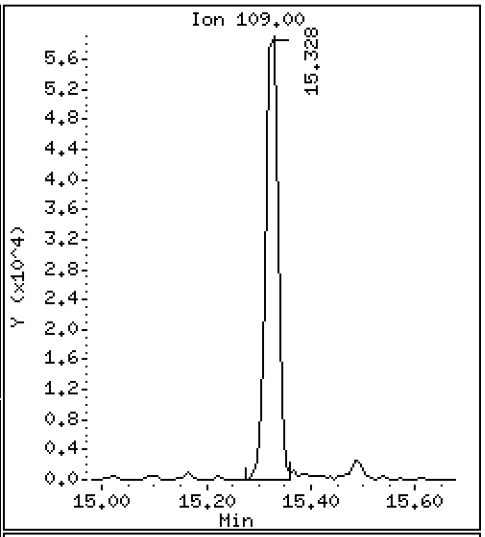
Column phase: ZB-5msi

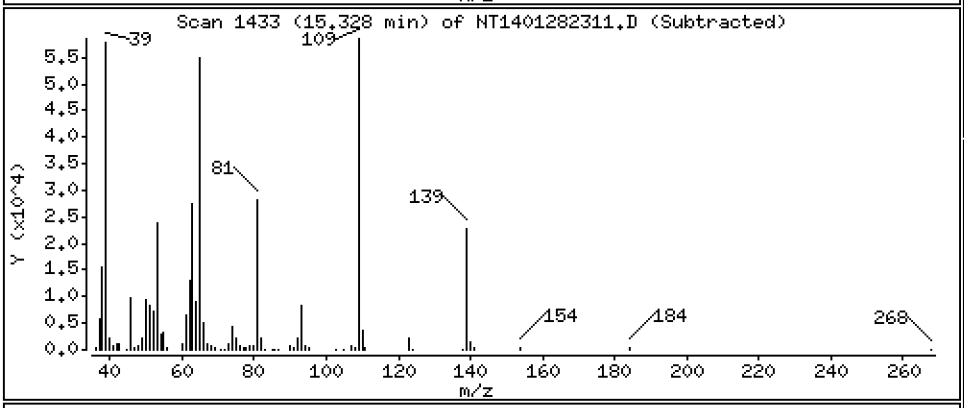
Column diameter: 0.25

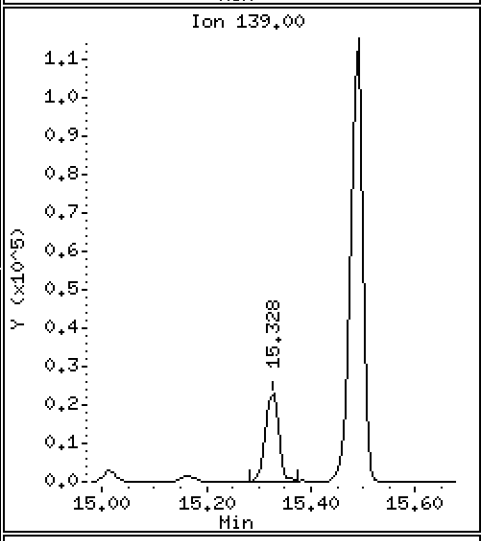
47 4-Nitrophenol

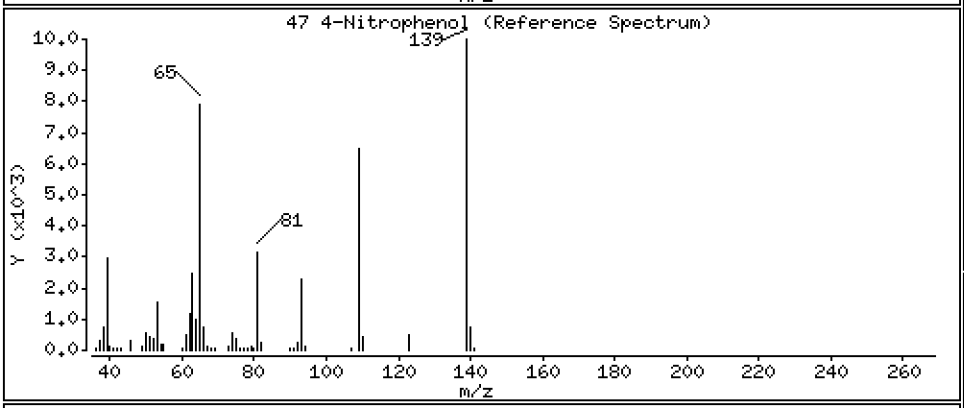
Concentration: 3.657 ug/mL

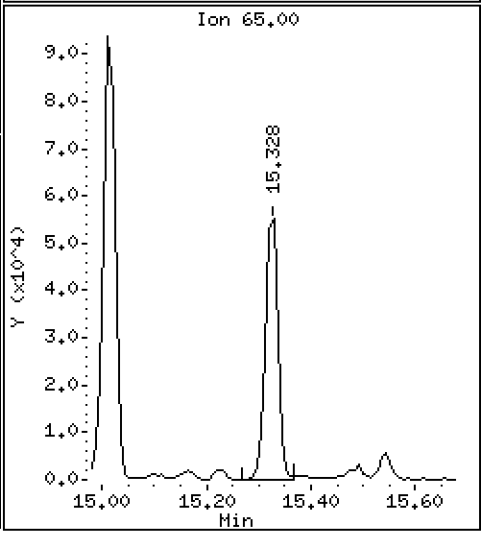


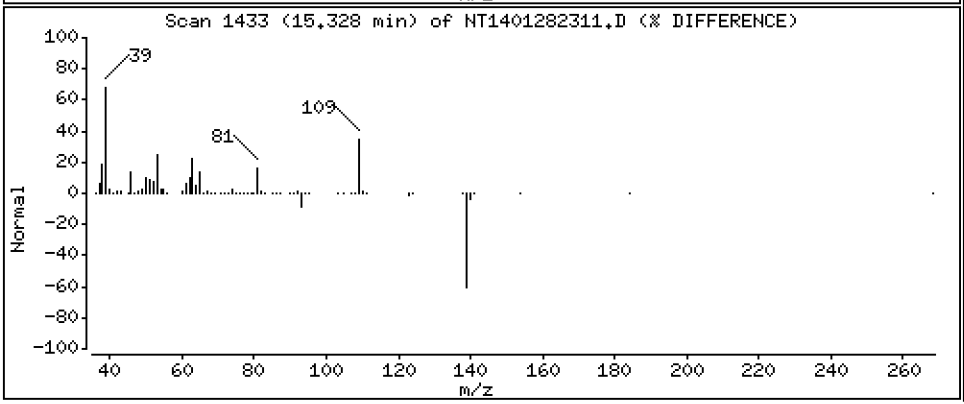












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

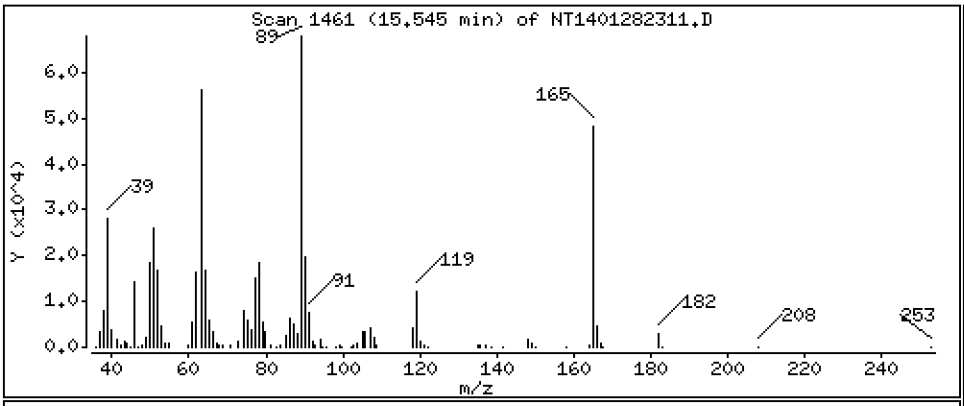
Operator: JGR

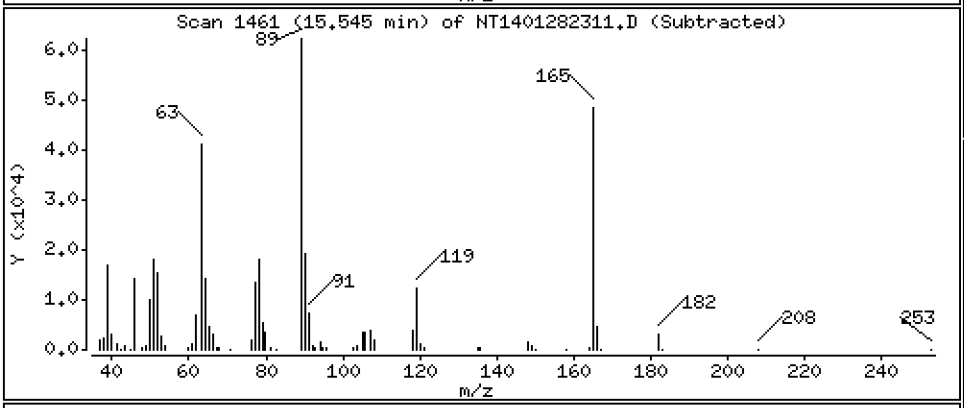
Column phase: ZB-5msi

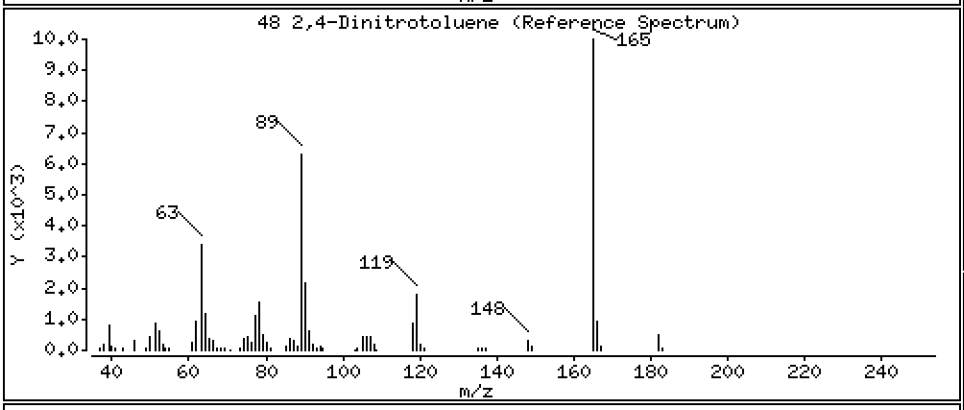
Column diameter: 0.25

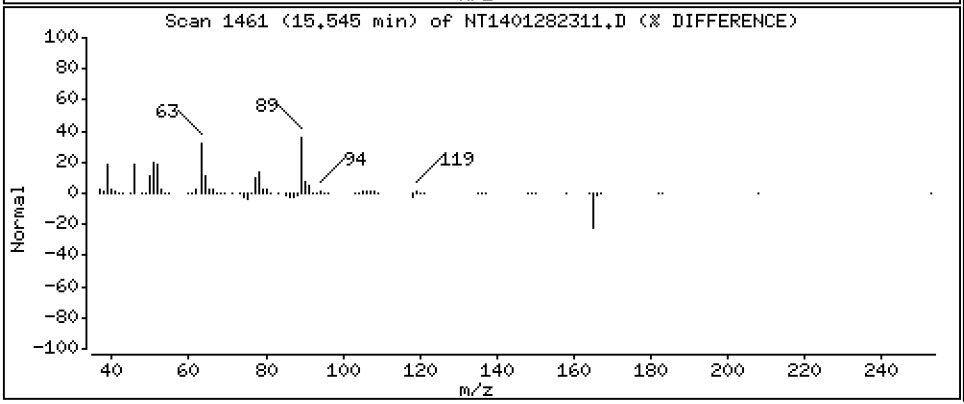
48 2,4-Dinitrotoluene

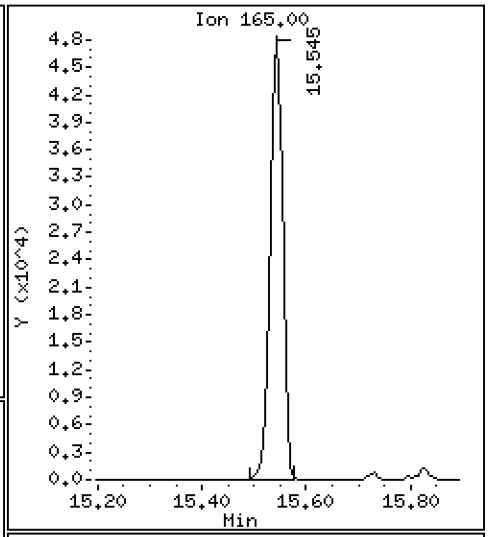
Concentration: 4.312 ug/mL

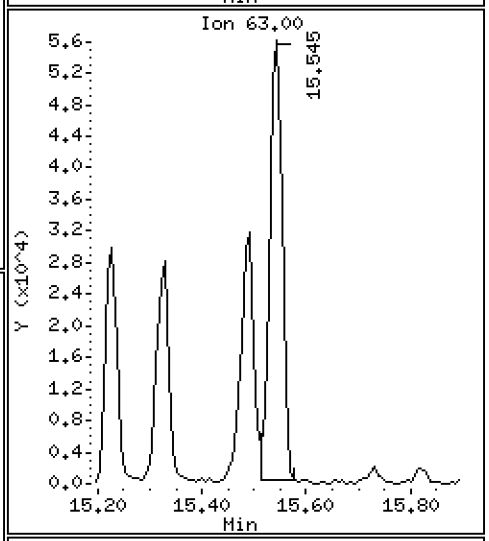


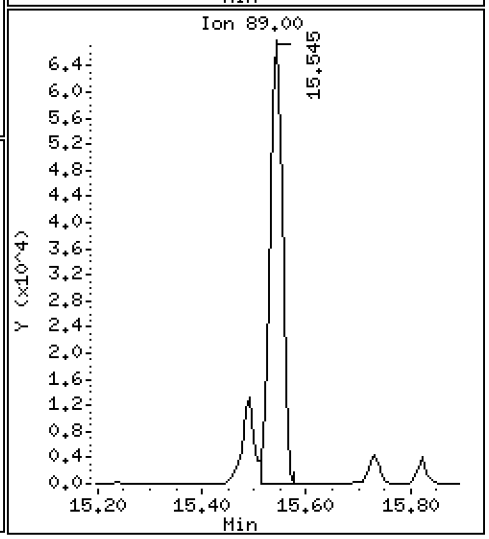












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

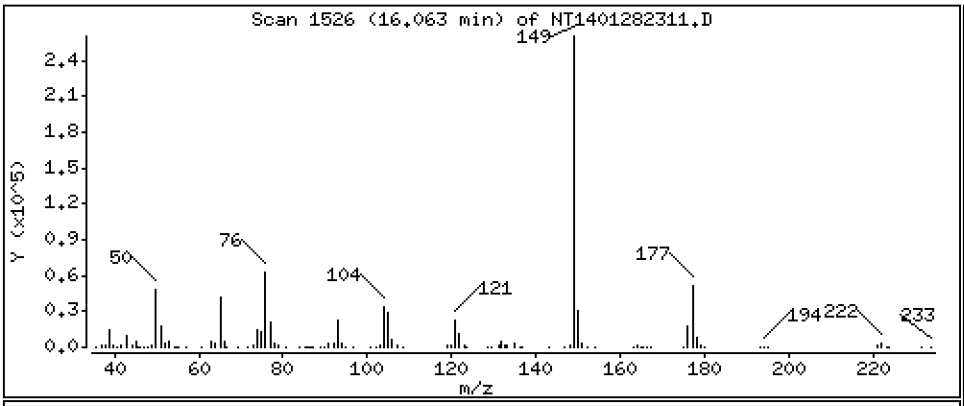
Operator: JGR

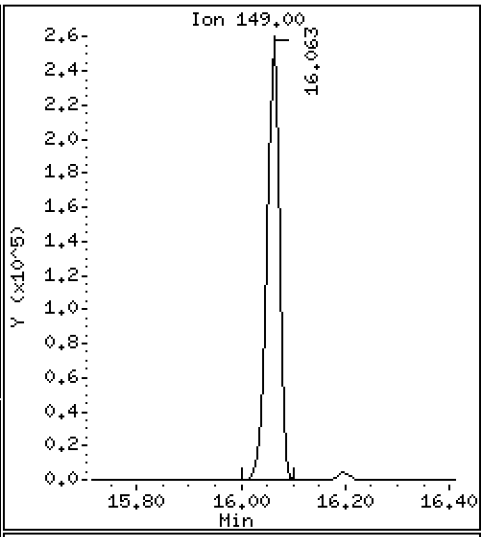
Column phase: ZB-5msi

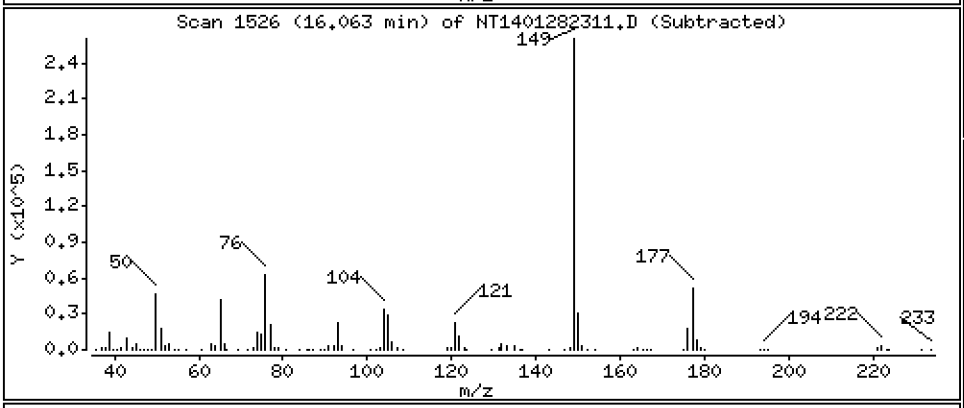
Column diameter: 0.25

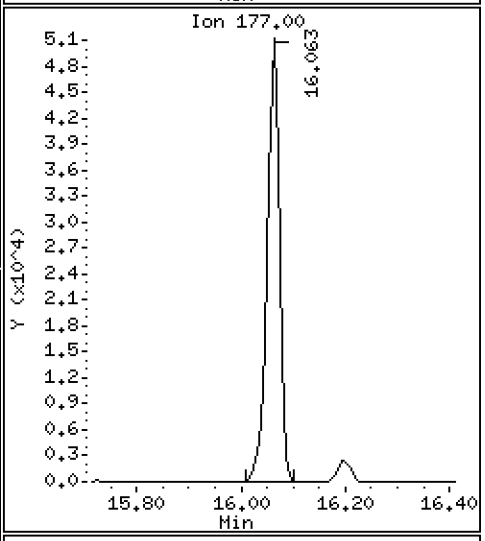
50 Diethylphthalate

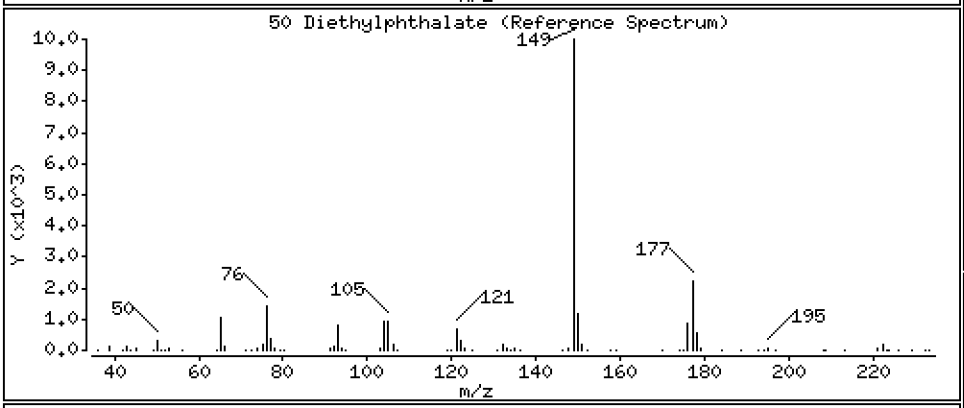
Concentration: 4.955 ug/mL

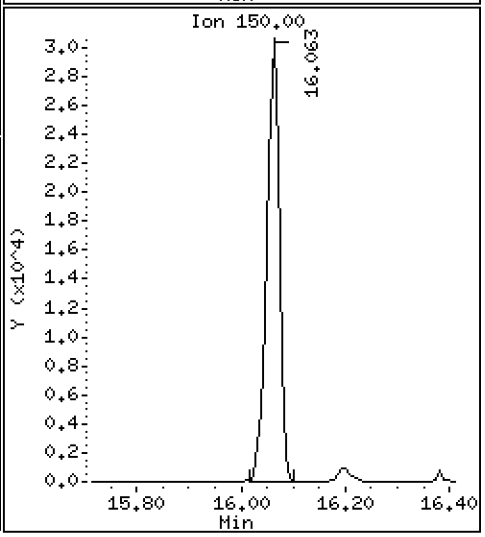


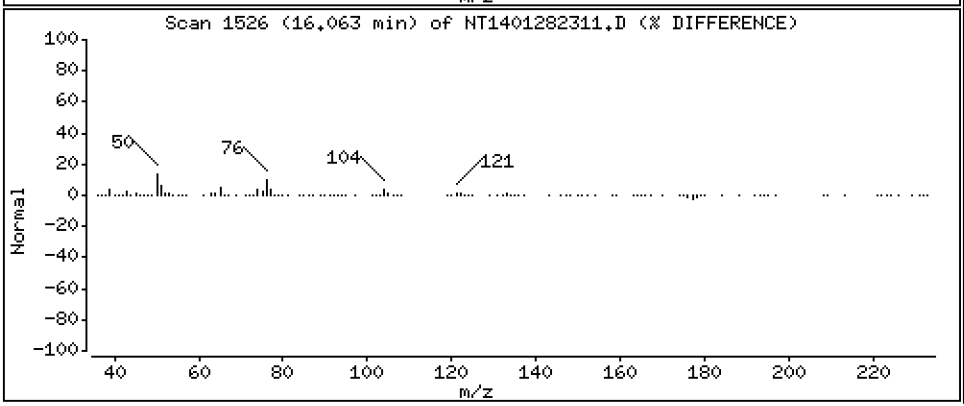












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

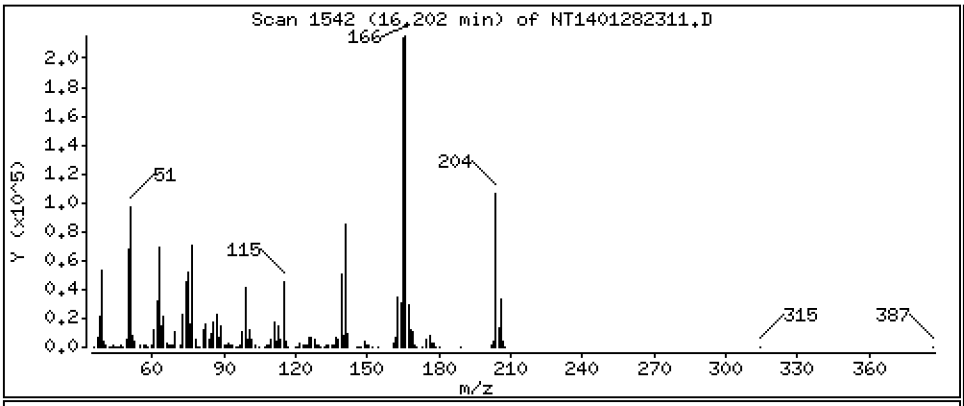
Operator: JGR

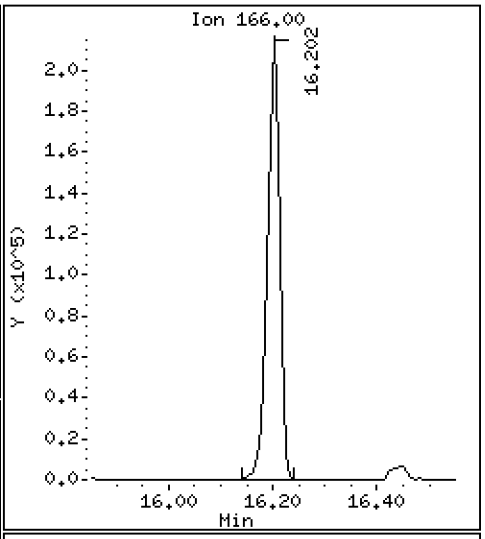
Column phase: ZB-5msi

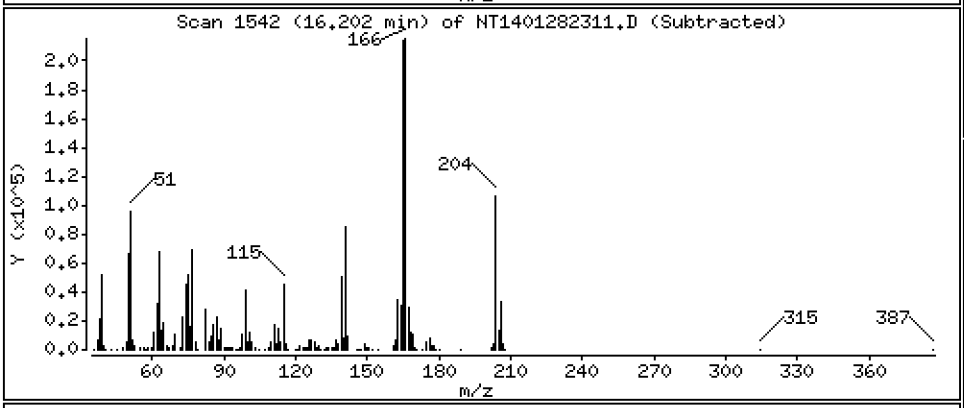
Column diameter: 0.25

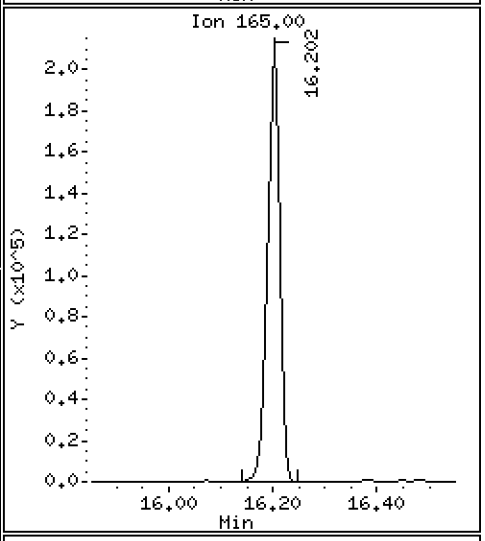
49 Fluorene

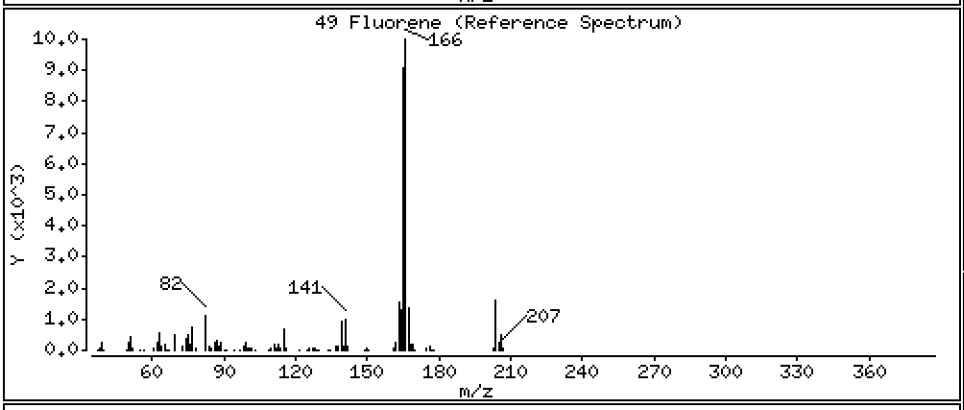
Concentration: 4.724 ug/mL

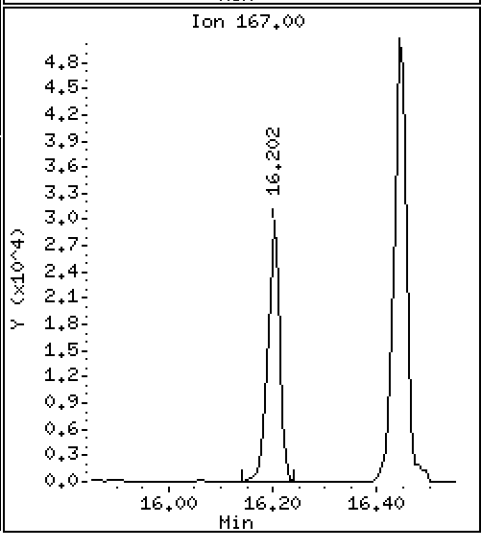


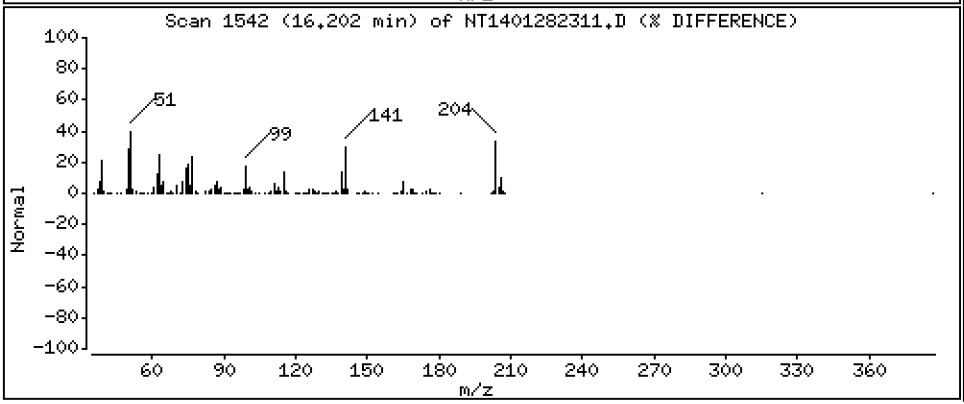












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

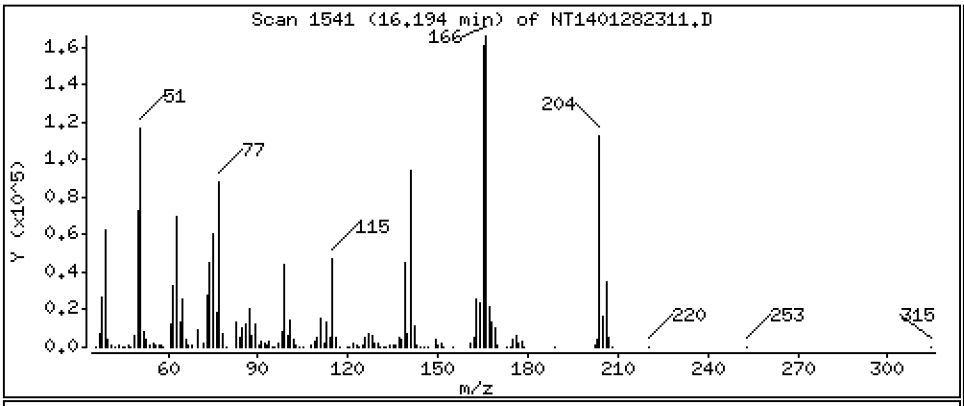
Operator: JGR

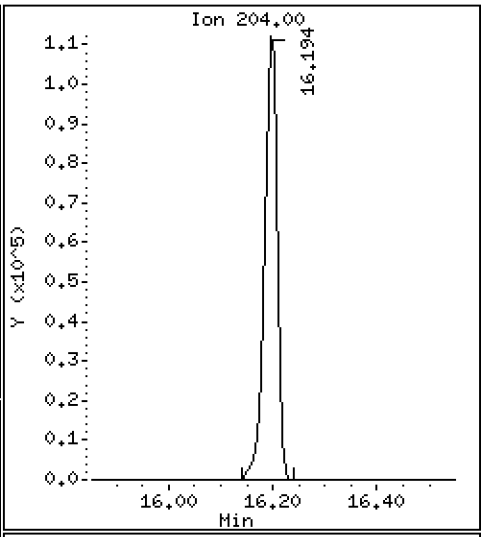
Column phase: ZB-5msi

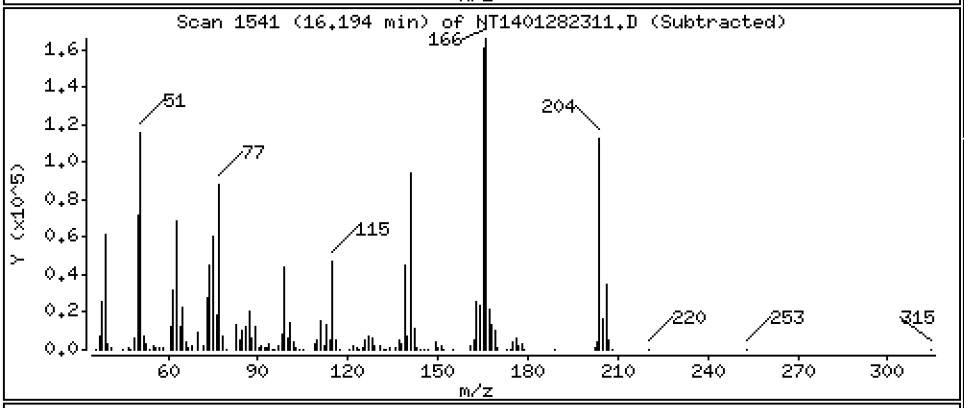
Column diameter: 0.25

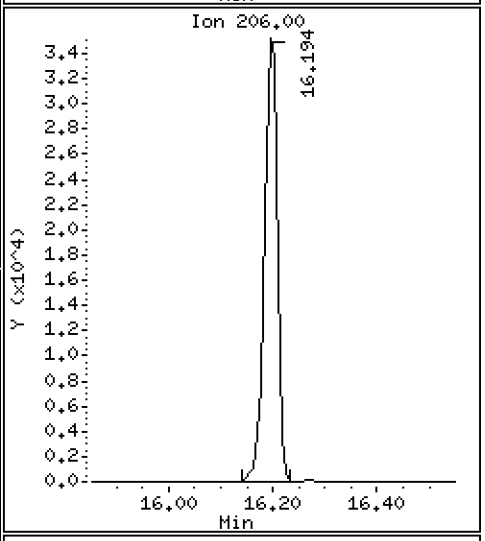
51 4-Chlorophenyl-phenylether

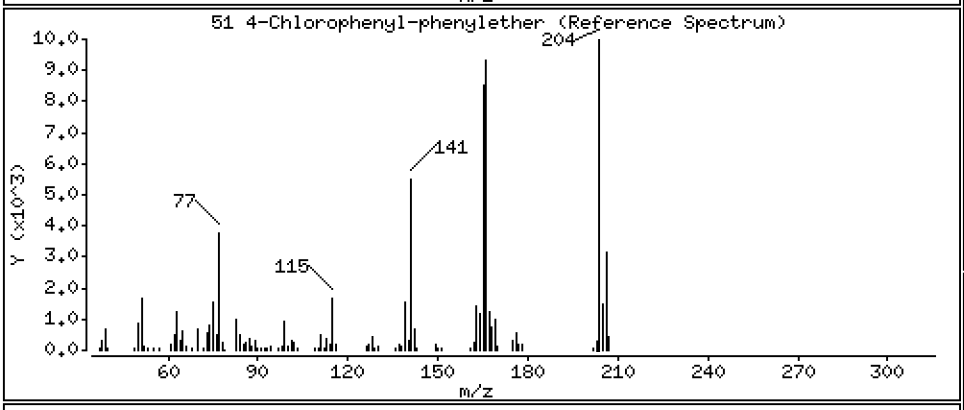
Concentration: 4.484 ug/mL

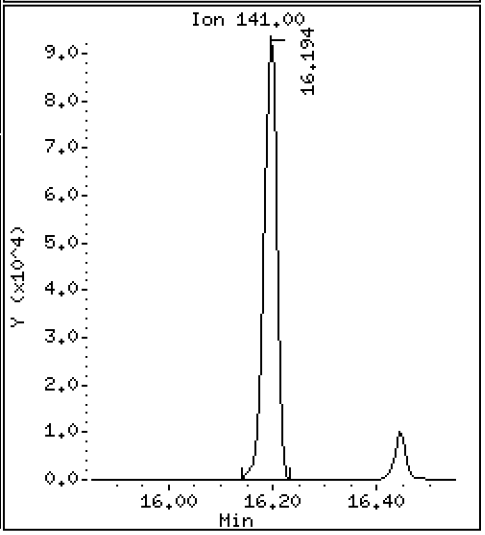


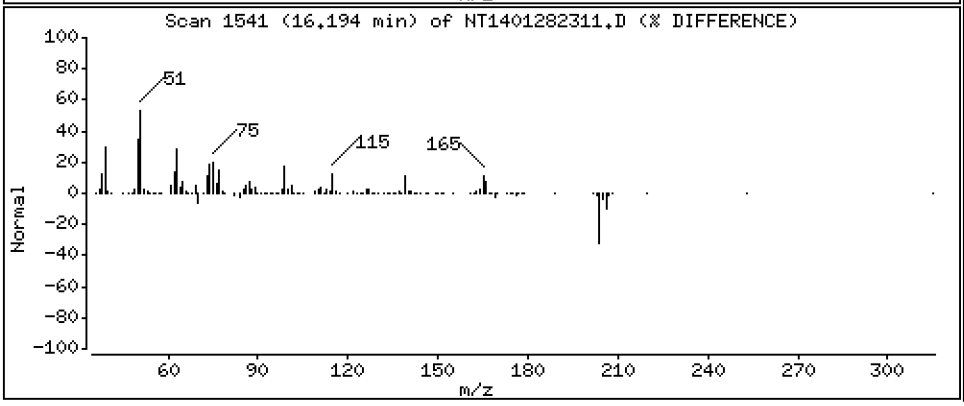












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

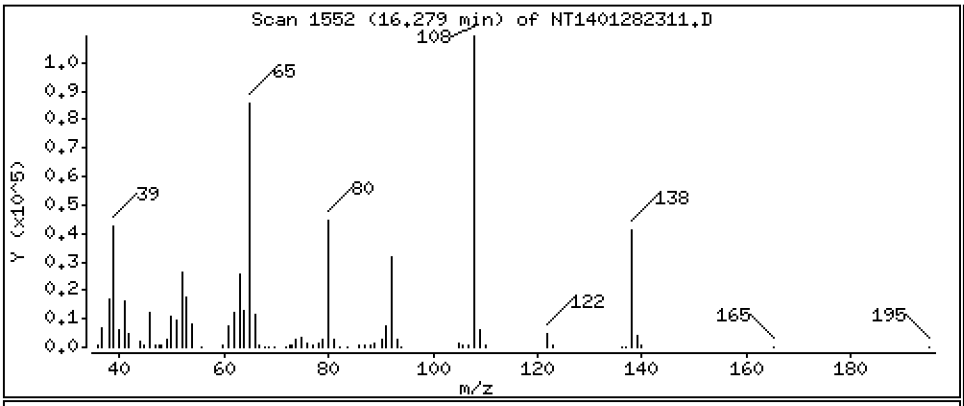
Operator: JGR

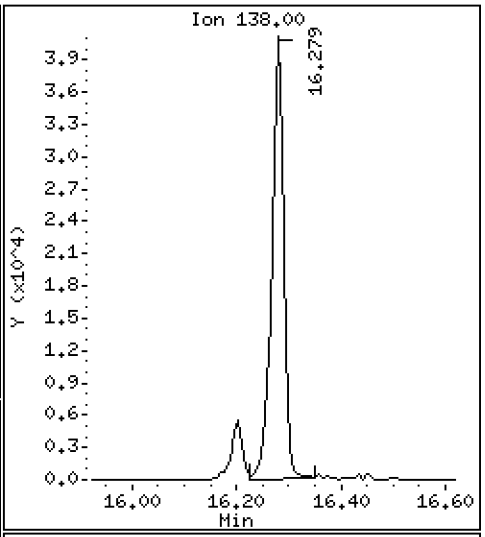
Column phase: ZB-5msi

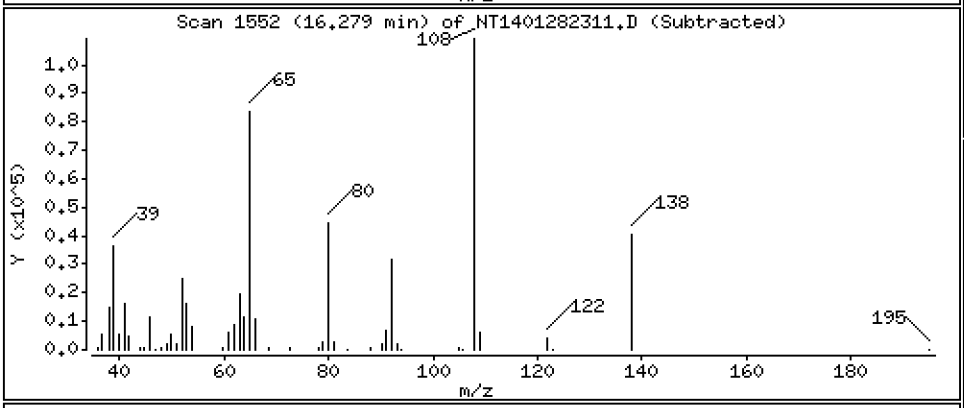
Column diameter: 0.25

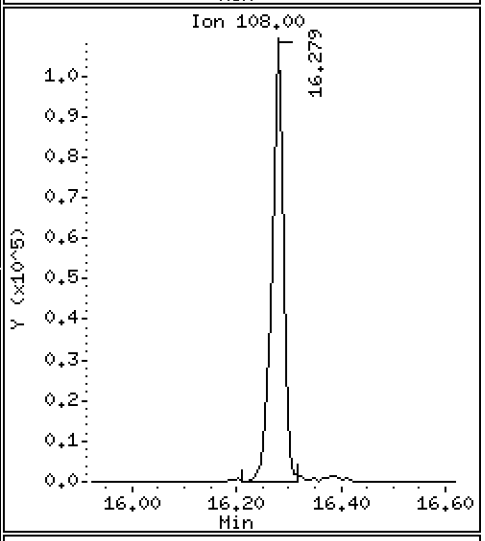
52 4-Nitroaniline

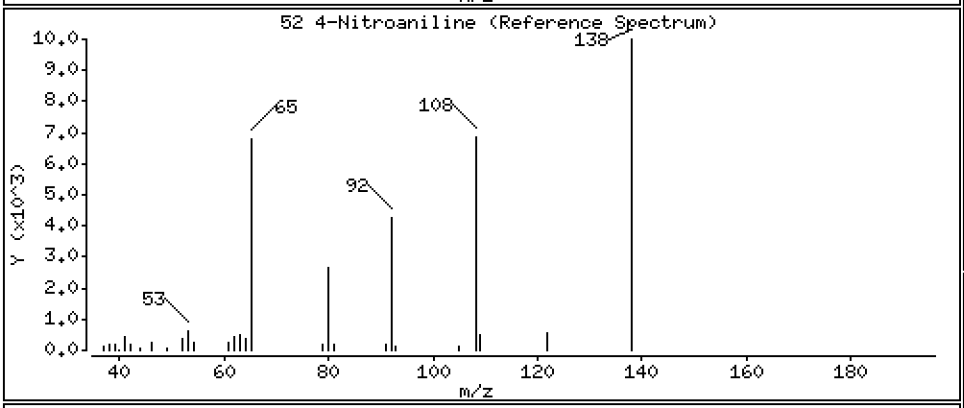
Concentration: 4.505 ug/mL

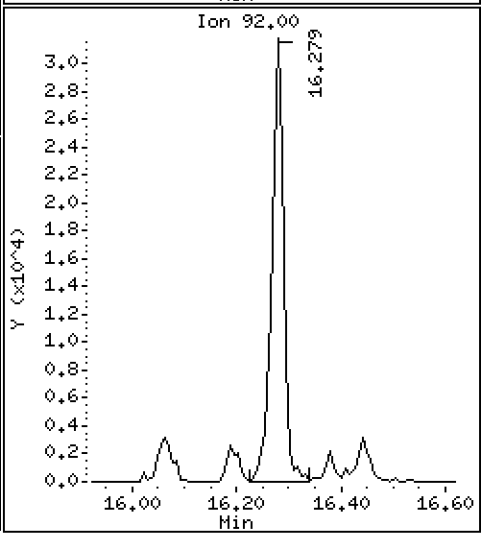


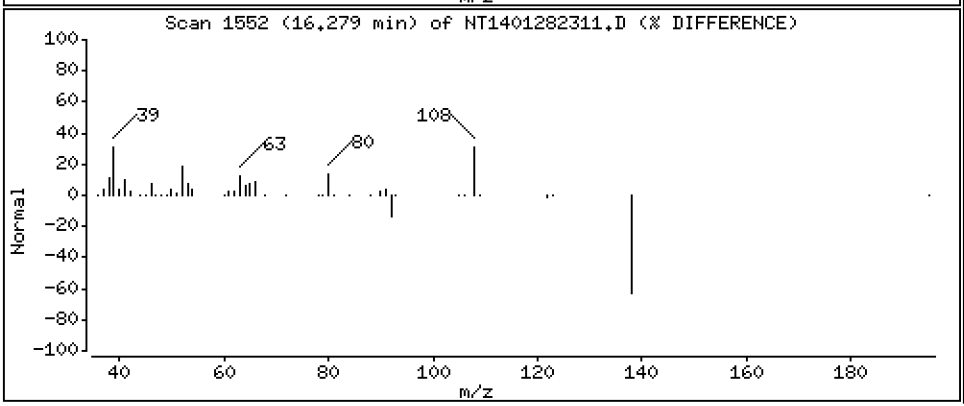












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

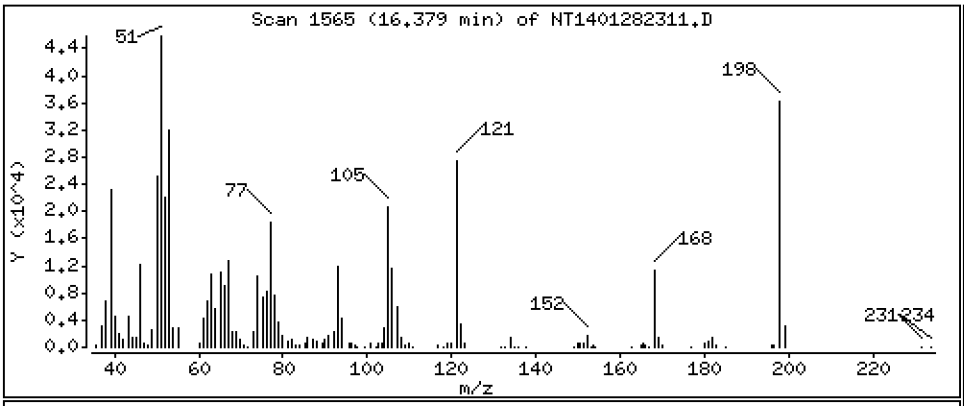
Operator: JGR

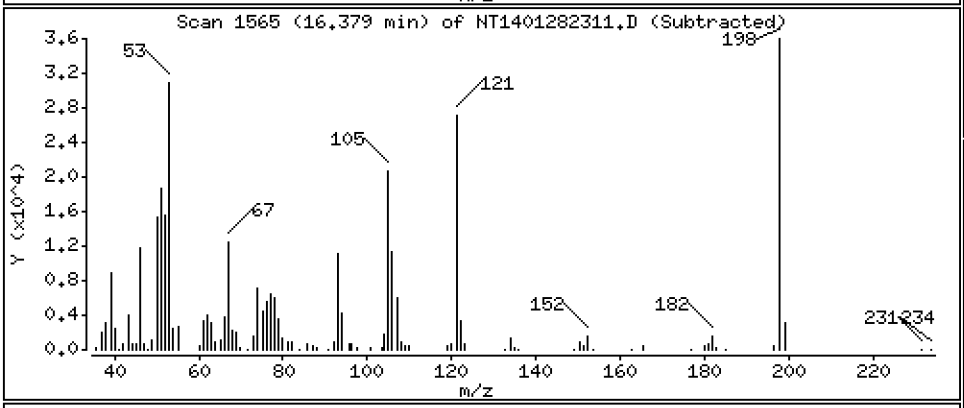
Column phase: ZB-5msi

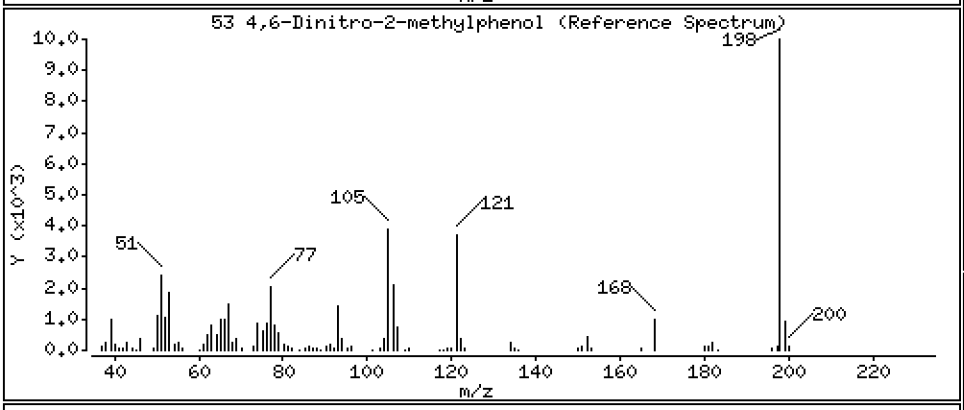
Column diameter: 0.25

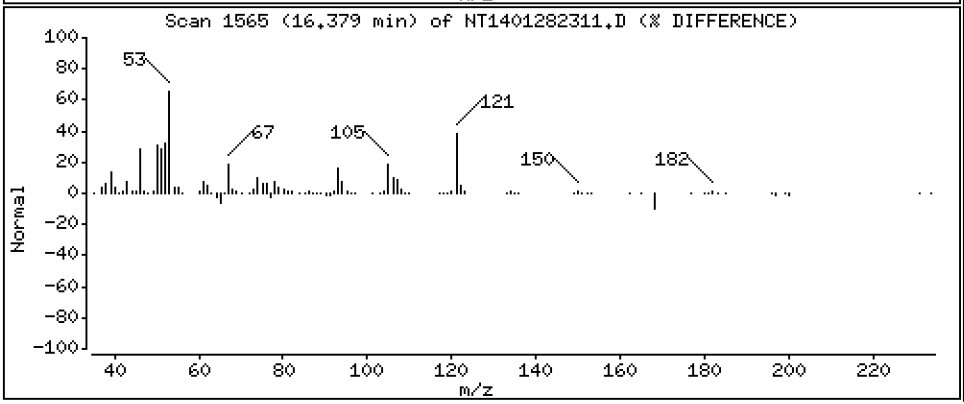
53 4,6-Dinitro-2-methylphenol

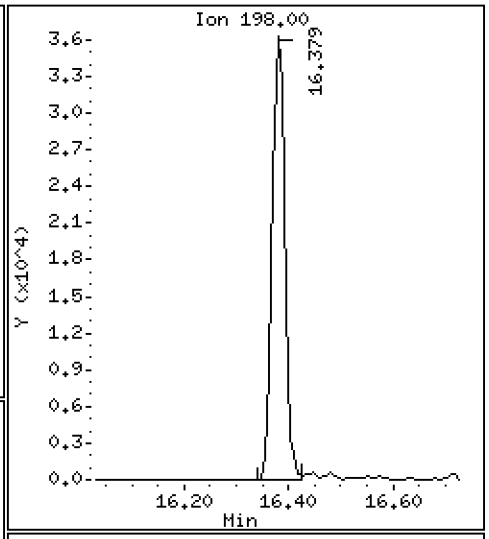
Concentration: 3.422 ug/mL

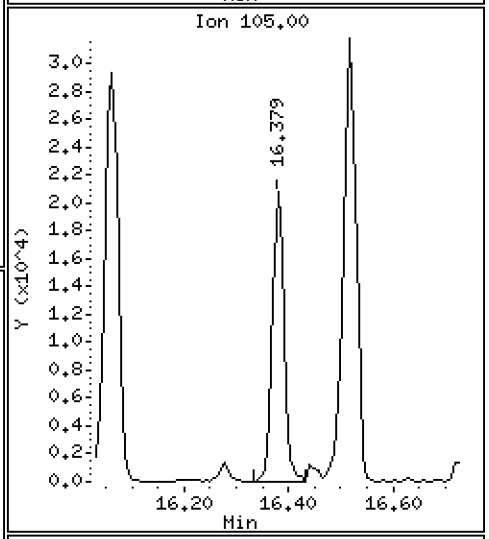


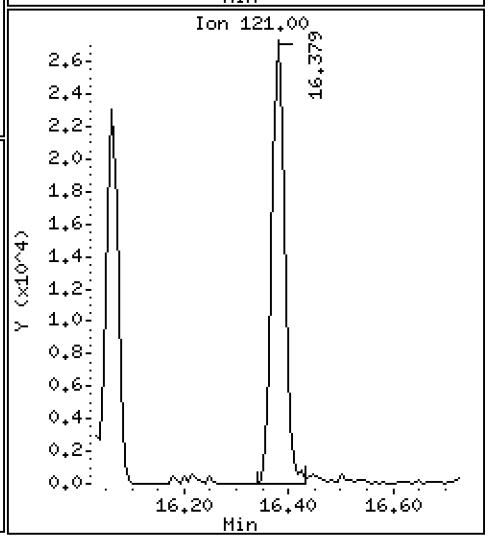












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

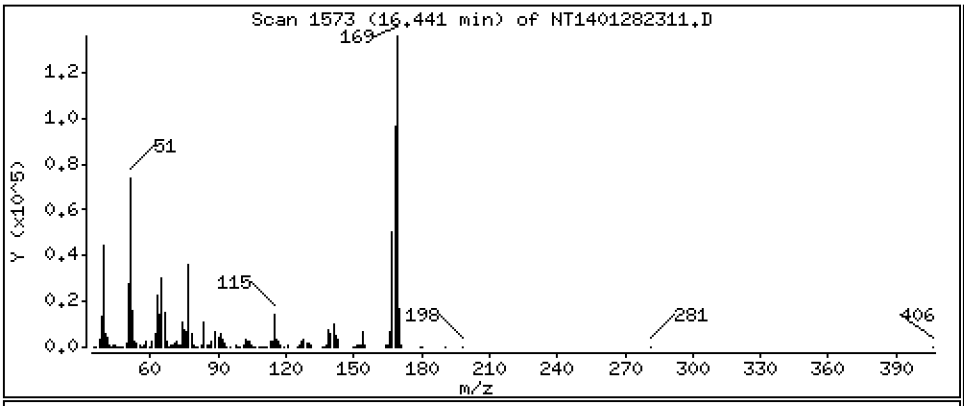
Operator: JGR

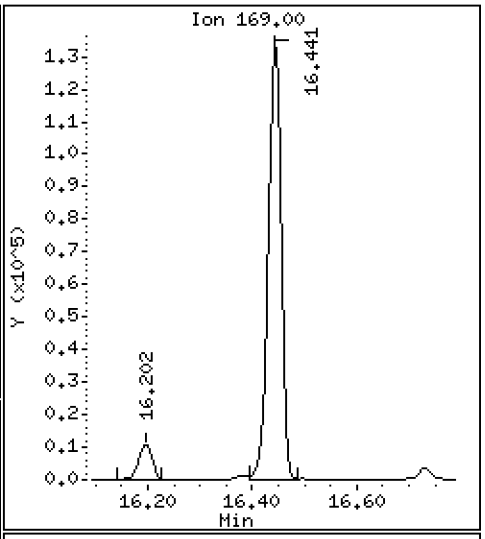
Column phase: ZB-5msi

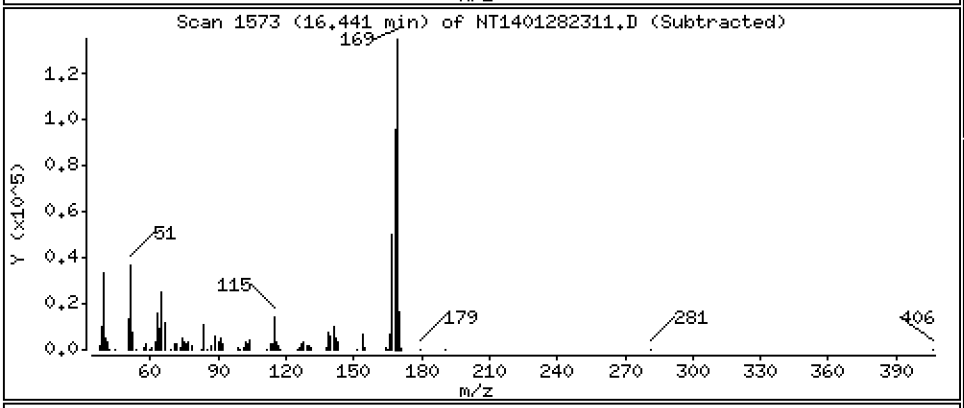
Column diameter: 0.25

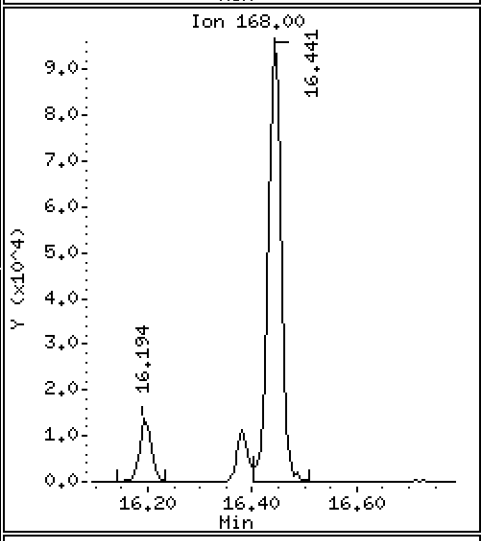
54 N-Nitrosodiphenylamine

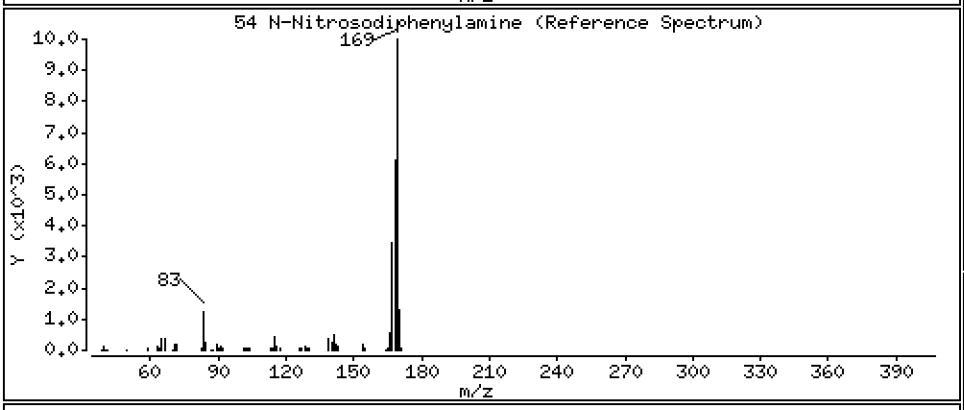
Concentration: 4.528 ug/mL

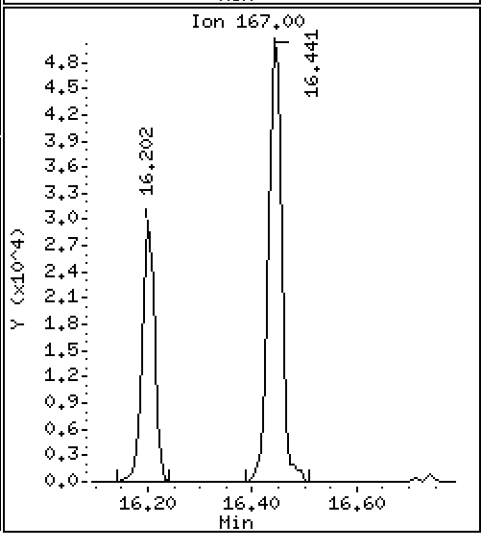


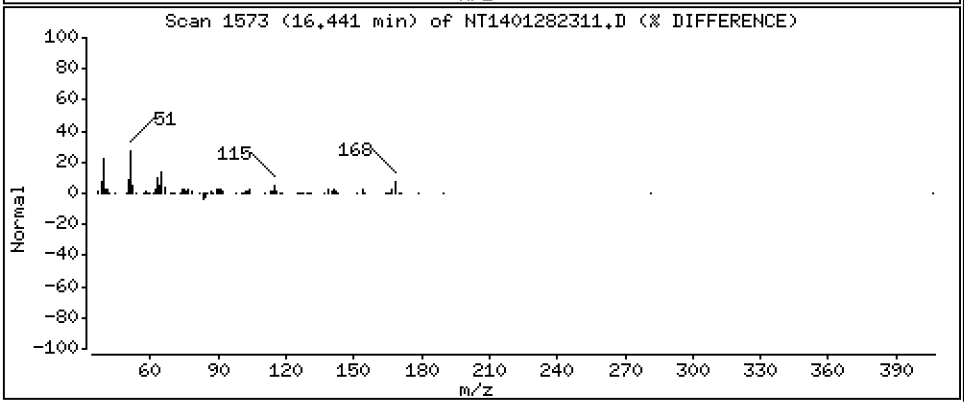












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

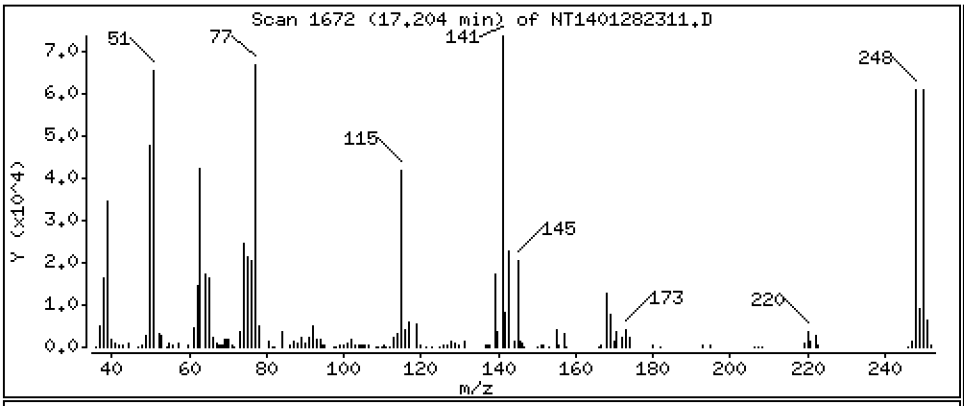
Operator: JGR

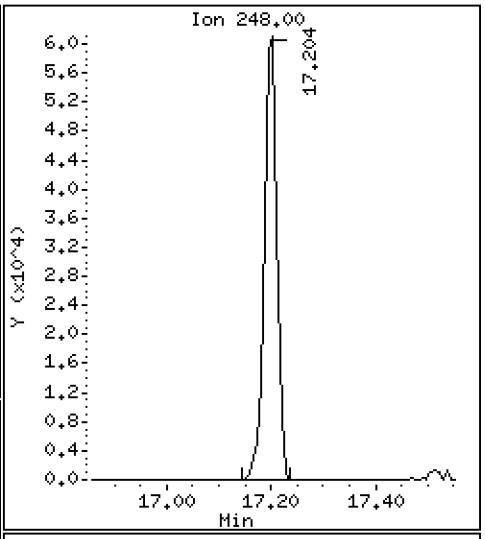
Column phase: ZB-5msi

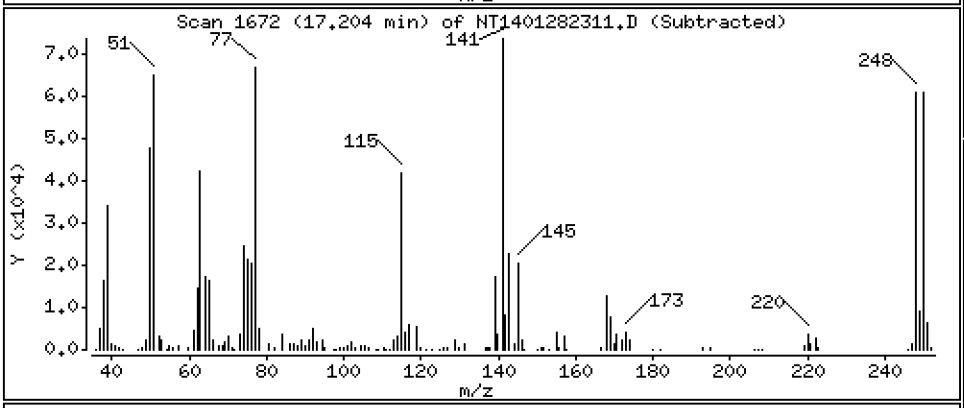
Column diameter: 0.25

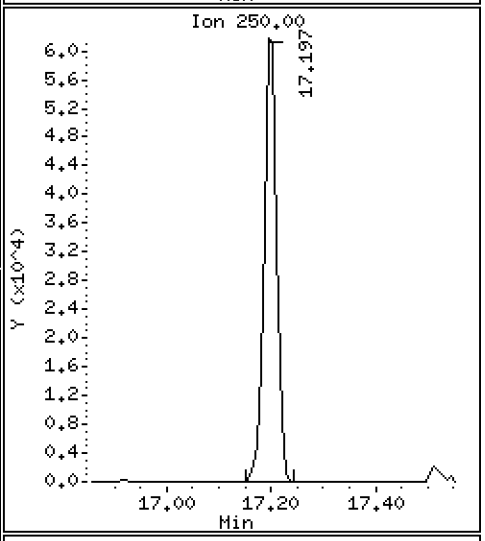
56 4-Bromophenyl-phenylether

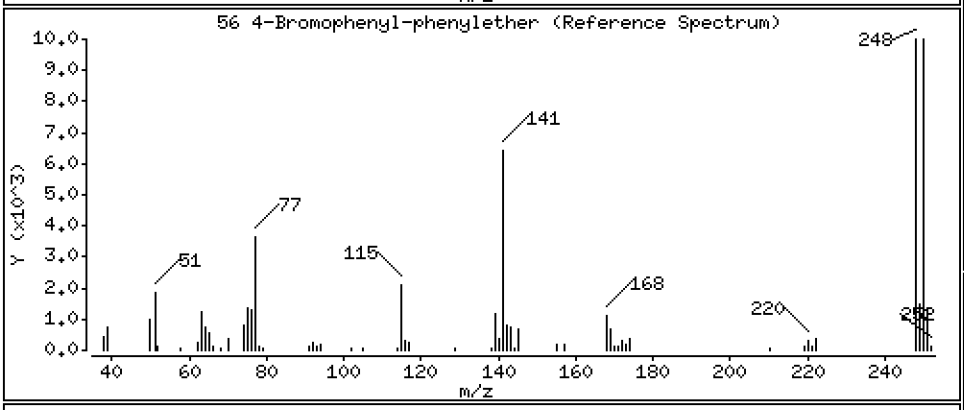
Concentration: 4.577 ug/mL

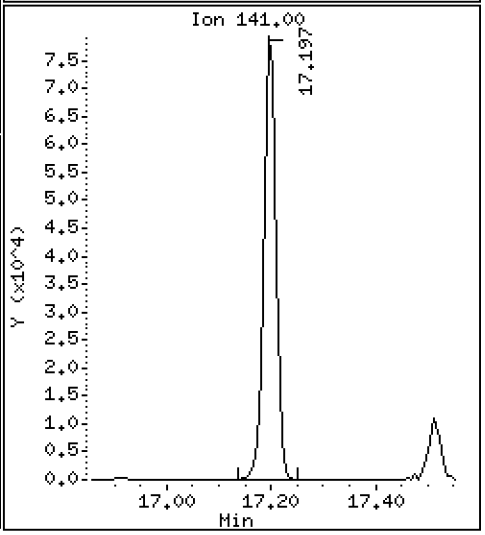


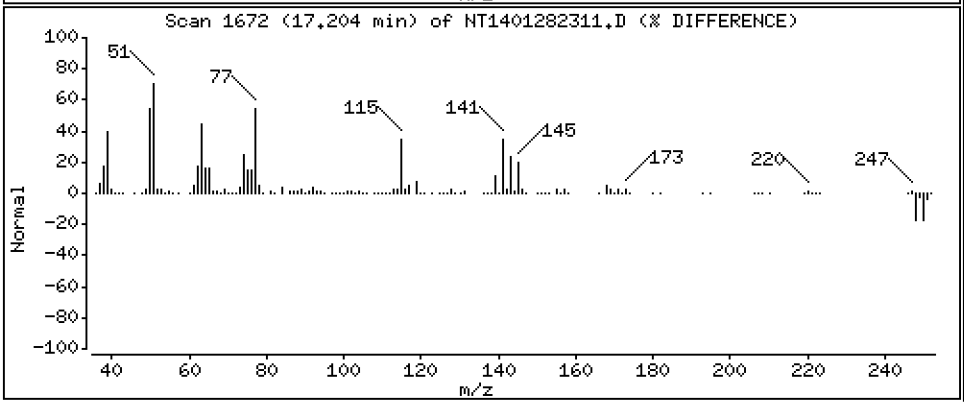












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

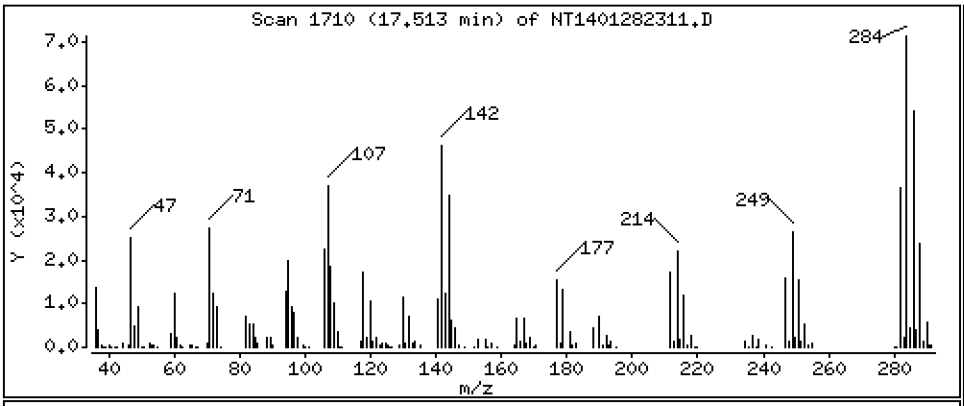
Operator: JGR

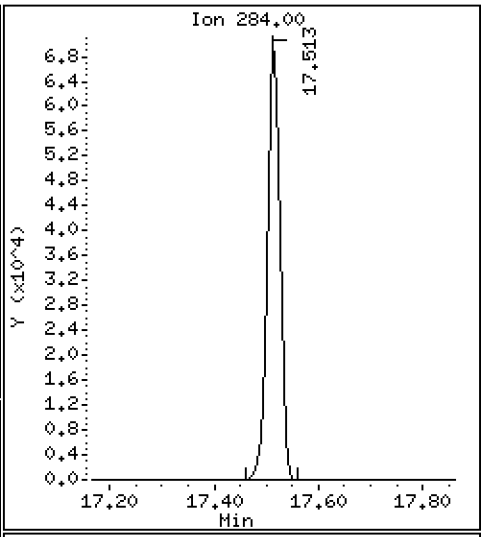
Column phase: ZB-5msi

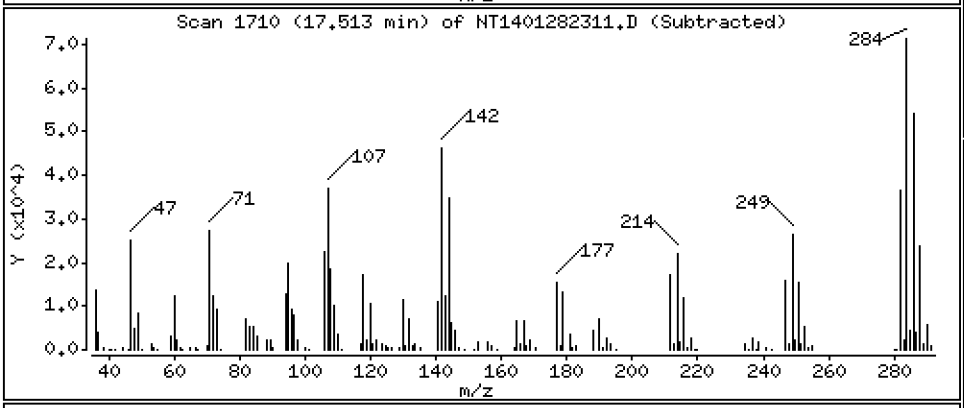
Column diameter: 0.25

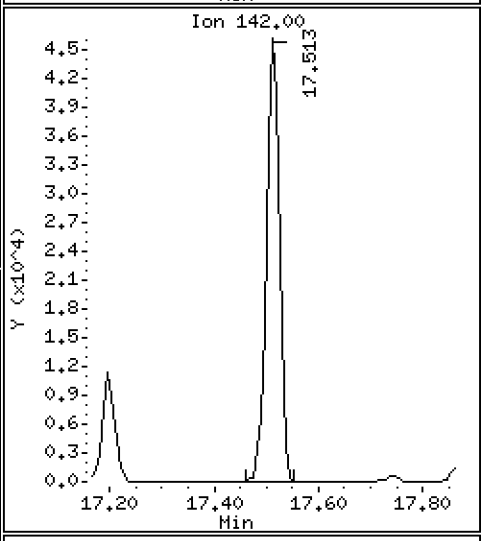
57 Hexachlorobenzene

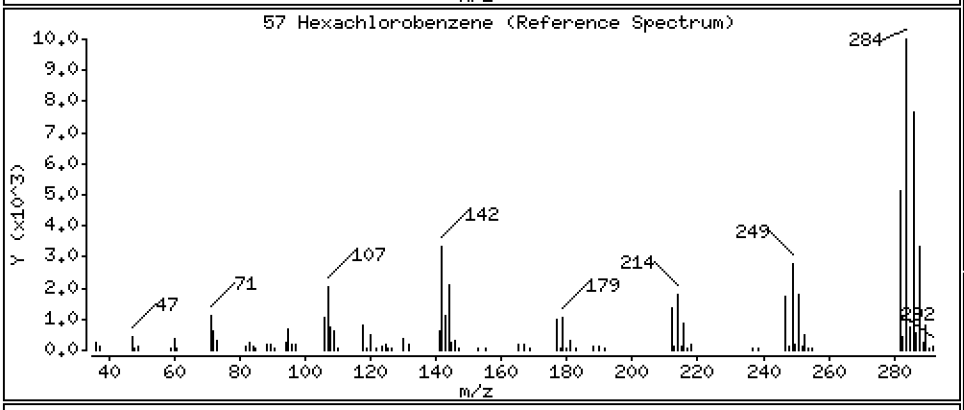
Concentration: 4.453 ug/mL

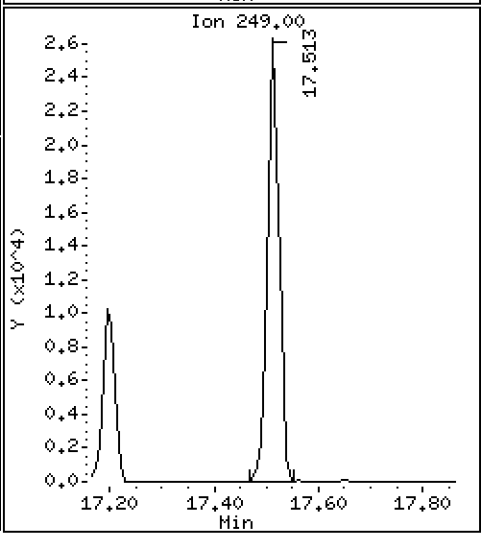


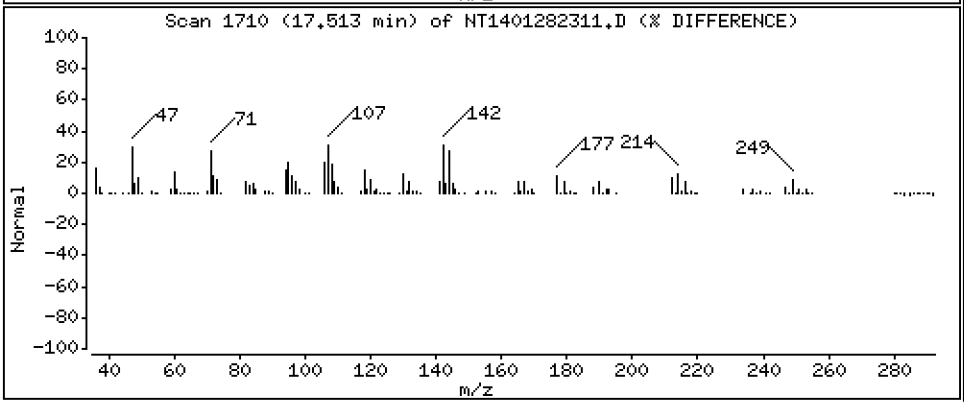












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

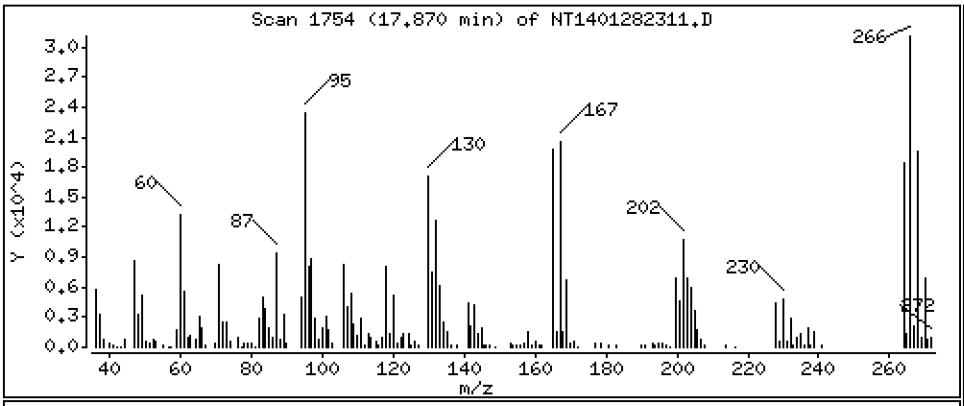
Operator: JGR

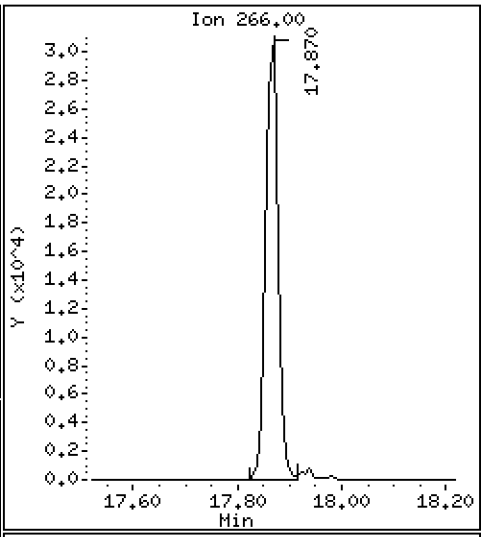
Column phase: ZB-5msi

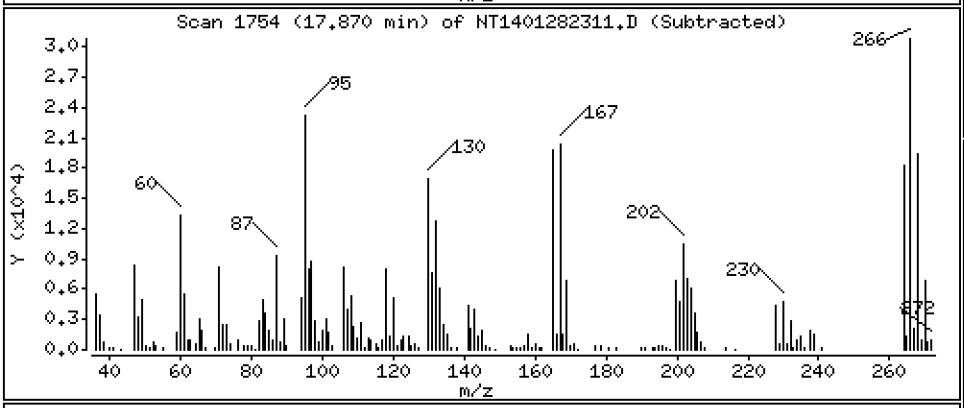
Column diameter: 0.25

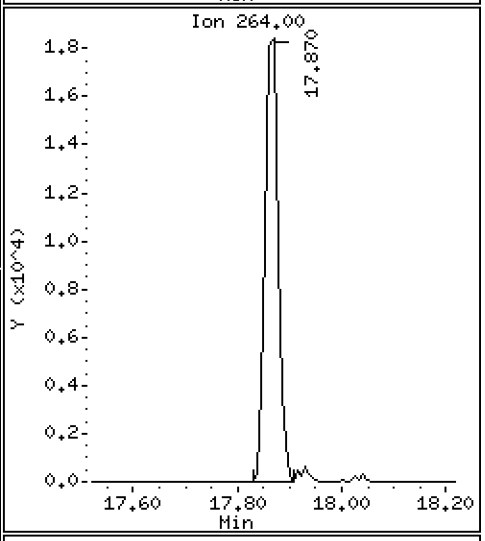
58 Pentachlorophenol

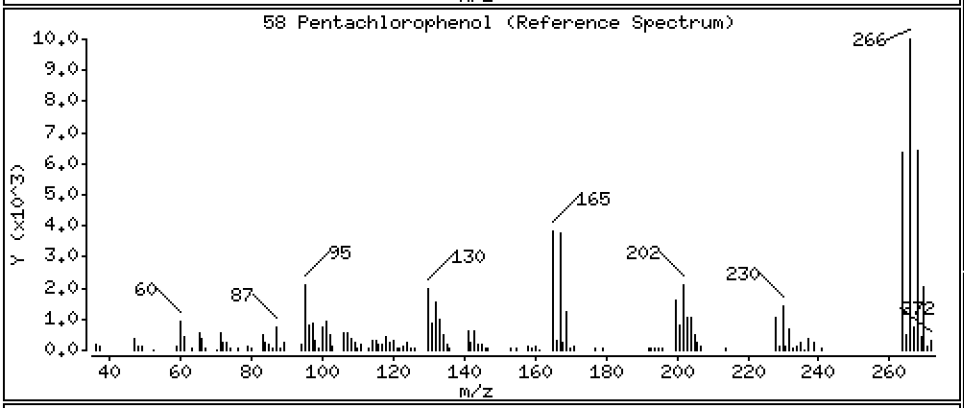
Concentration: 3.439 ug/mL

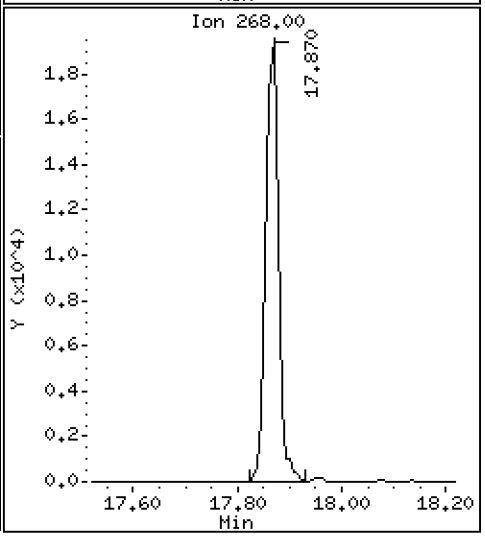


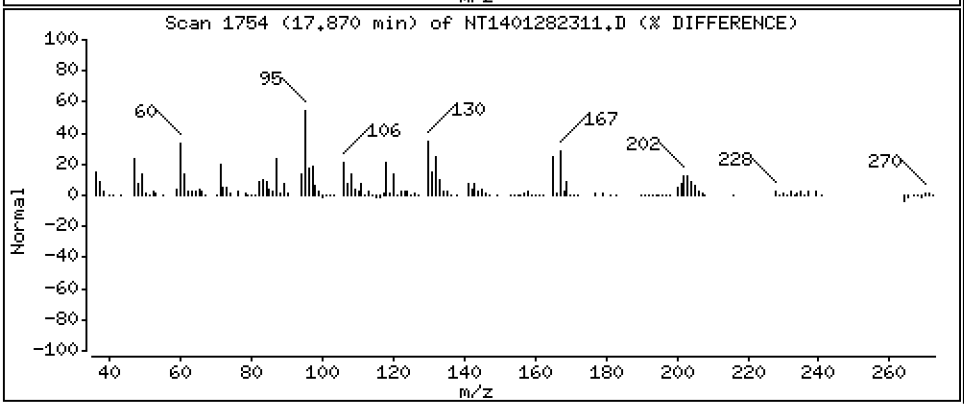












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

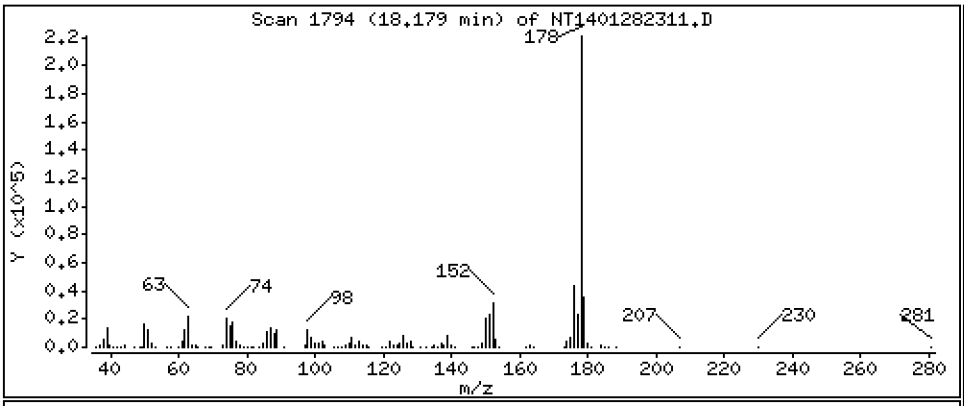
Operator: JGR

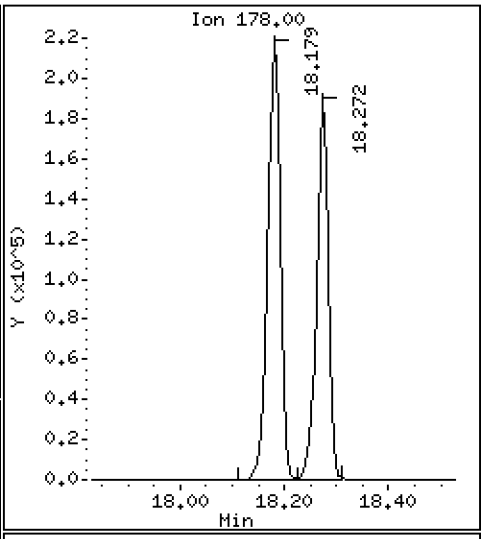
Column phase: ZB-5msi

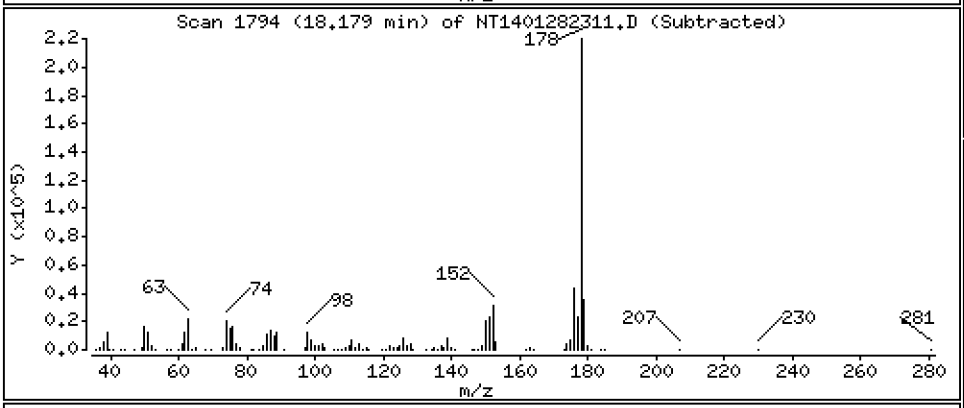
Column diameter: 0.25

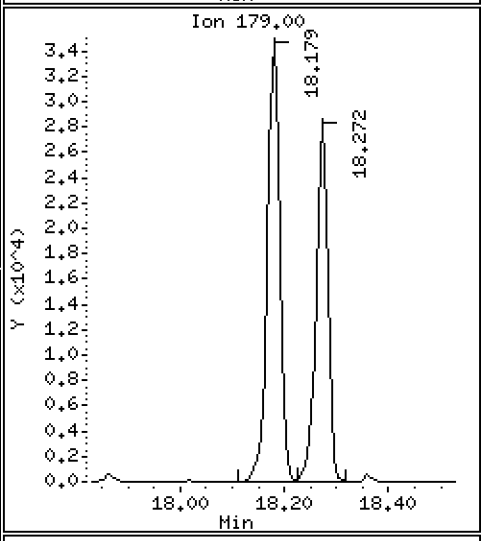
60 Phenanthrene

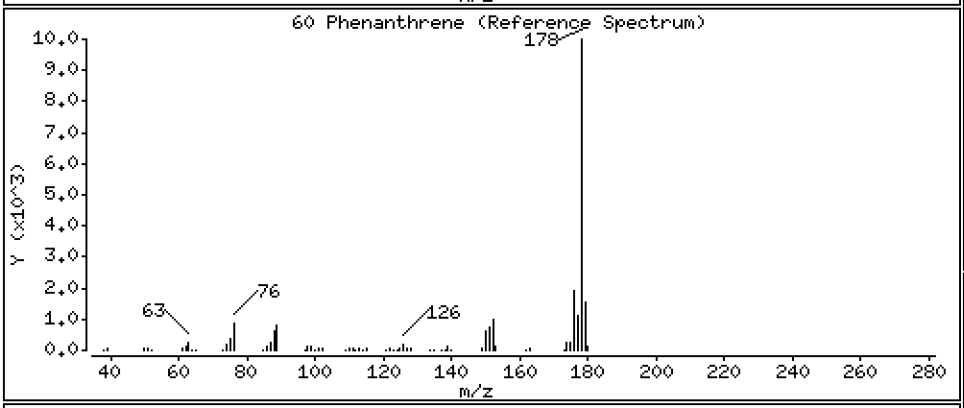
Concentration: 4.554 ug/mL

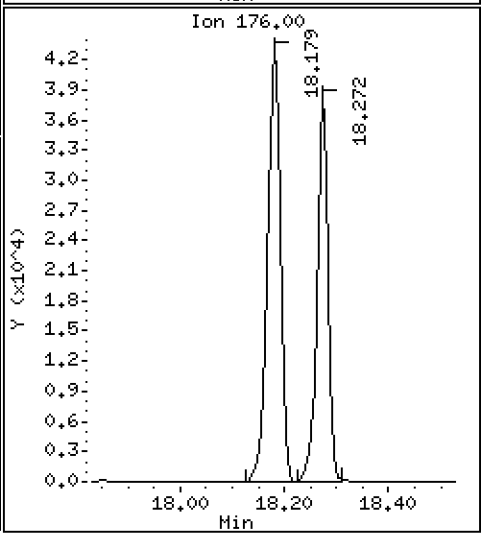


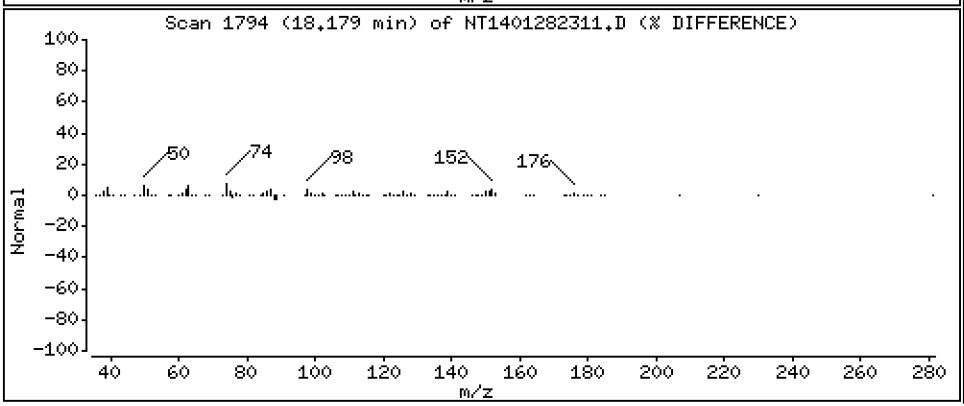












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

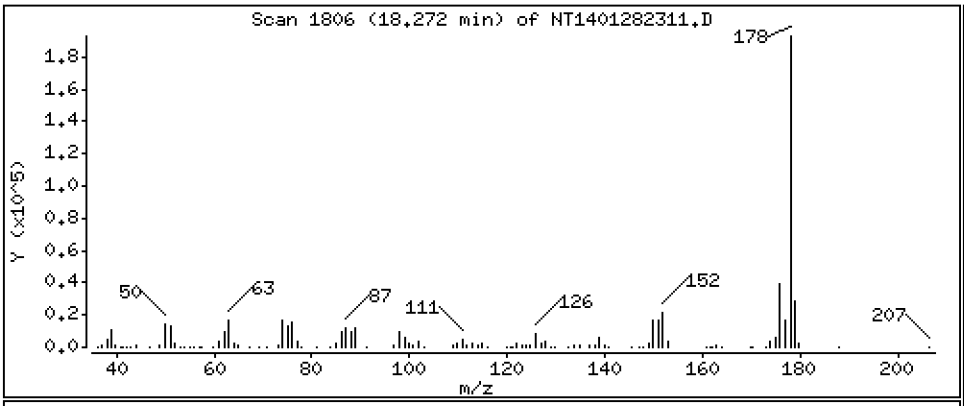
Operator: JGR

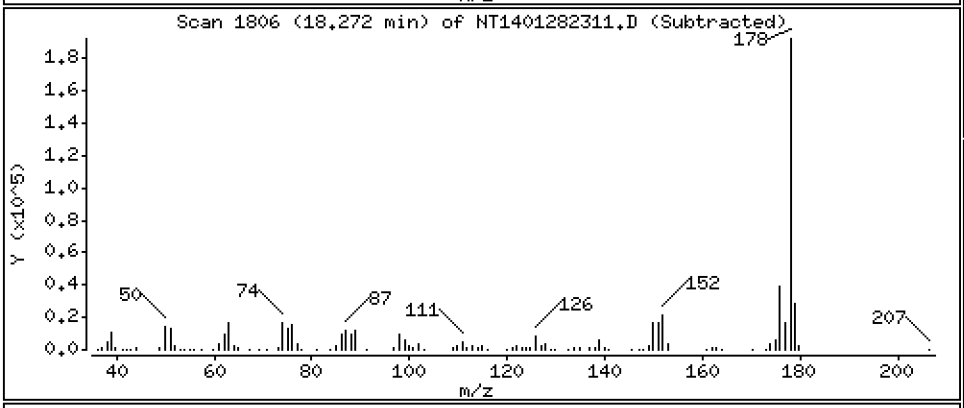
Column phase: ZB-5msi

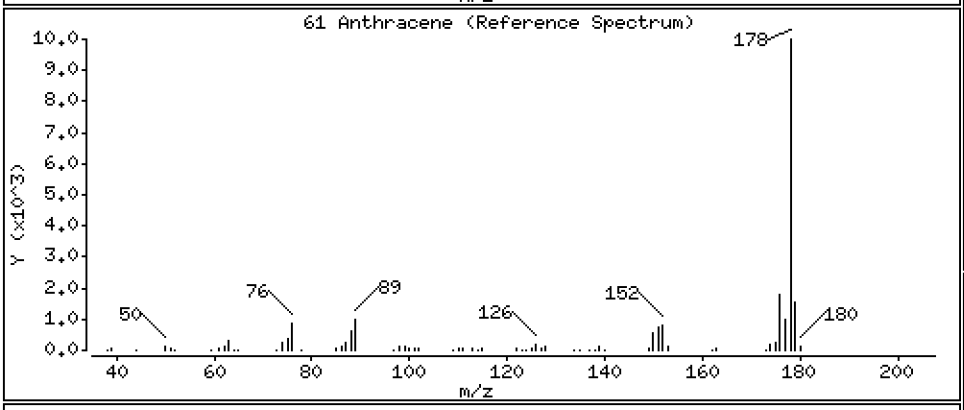
Column diameter: 0.25

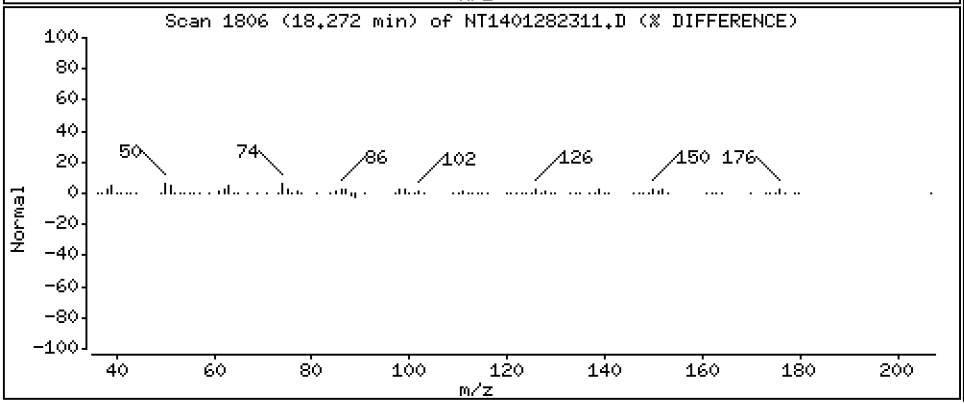
61 Anthracene

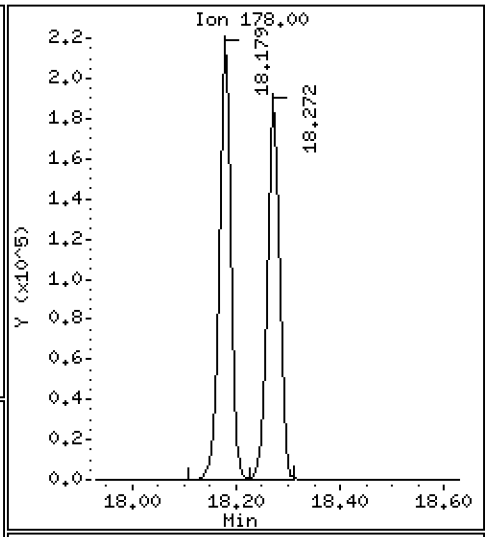
Concentration: 4.062 ug/mL

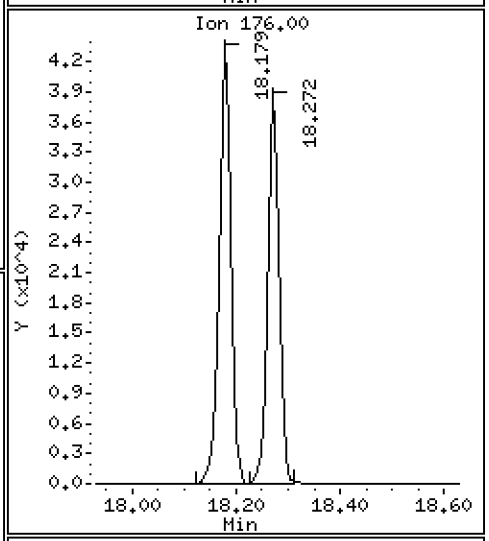


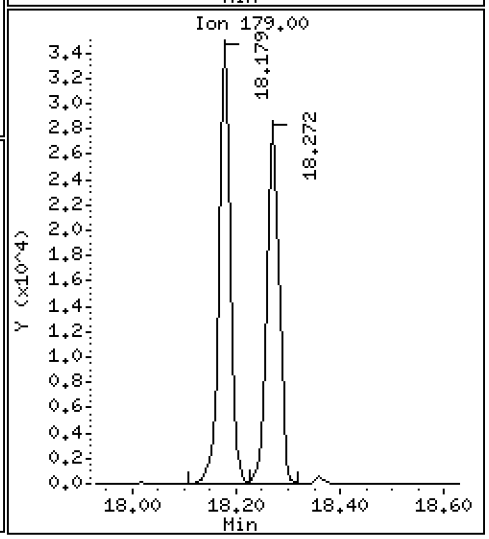












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

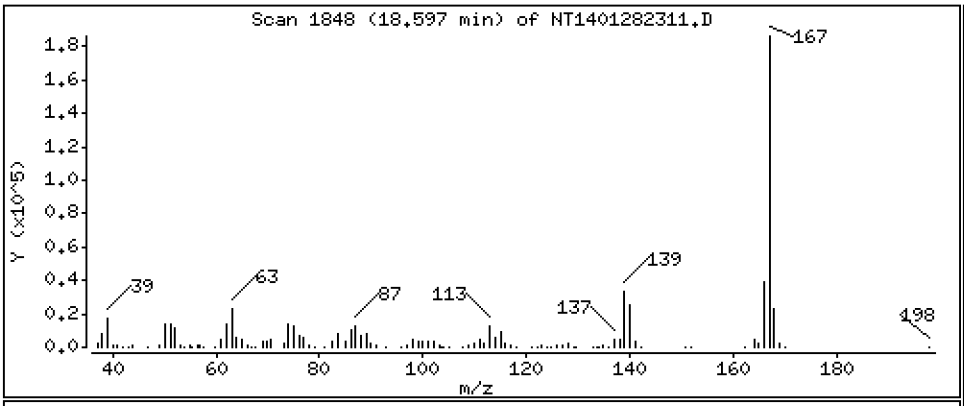
Operator: JGR

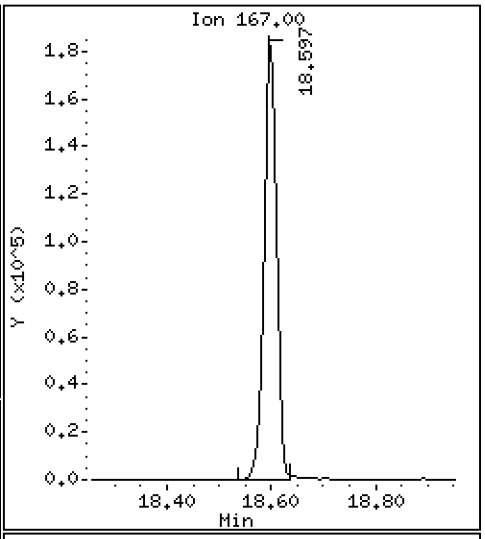
Column phase: ZB-5msi

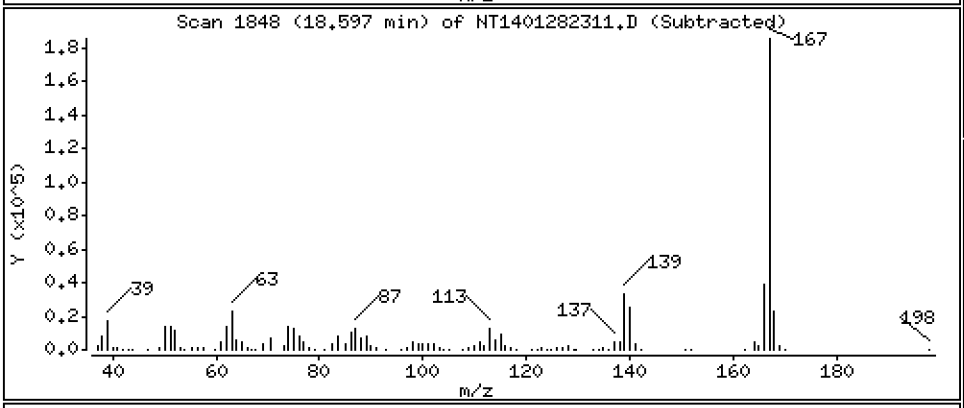
Column diameter: 0.25

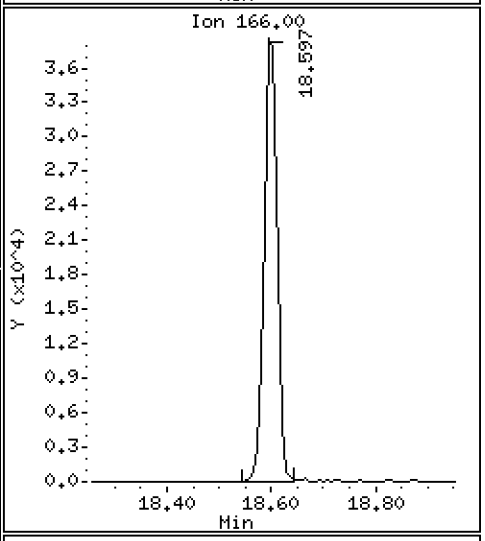
62 Carbazole

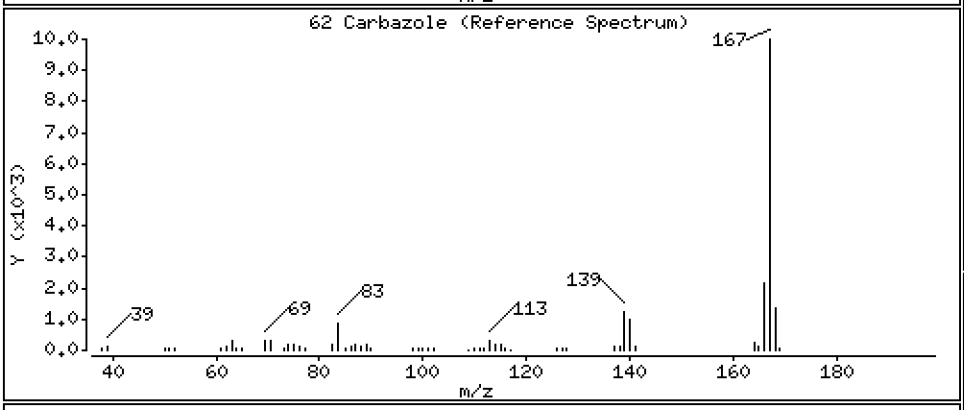
Concentration: 4.384 ug/mL

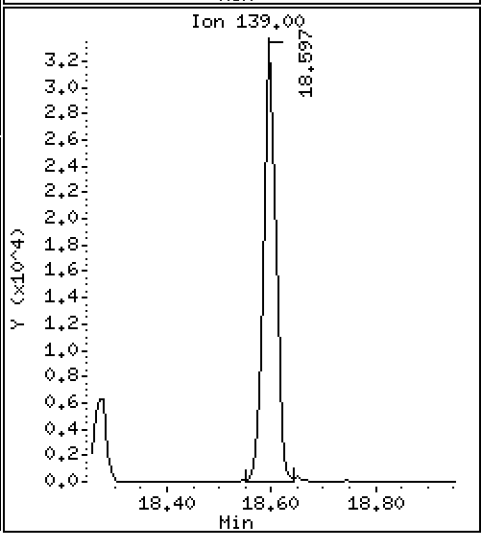


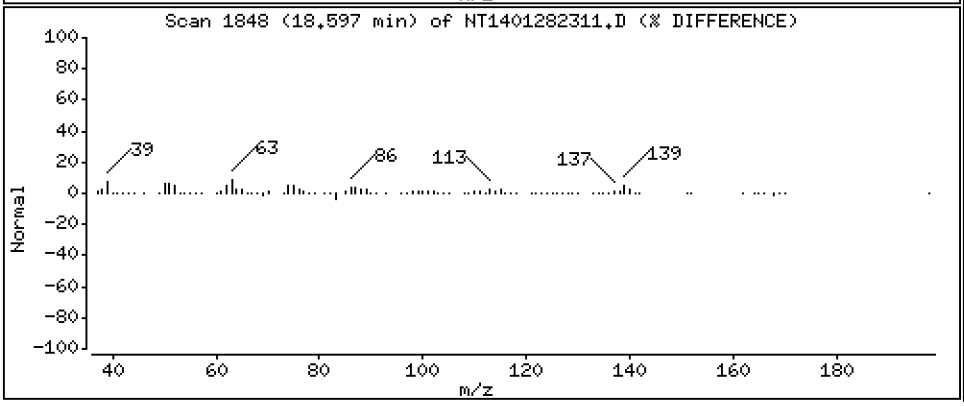












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

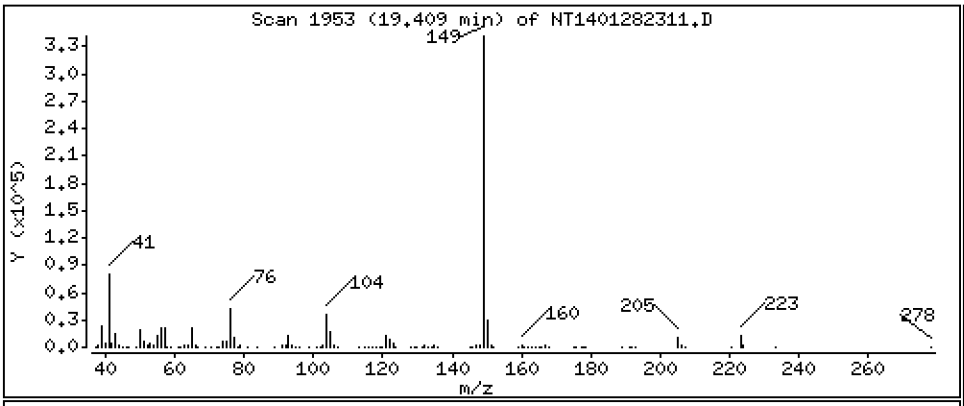
Operator: JGR

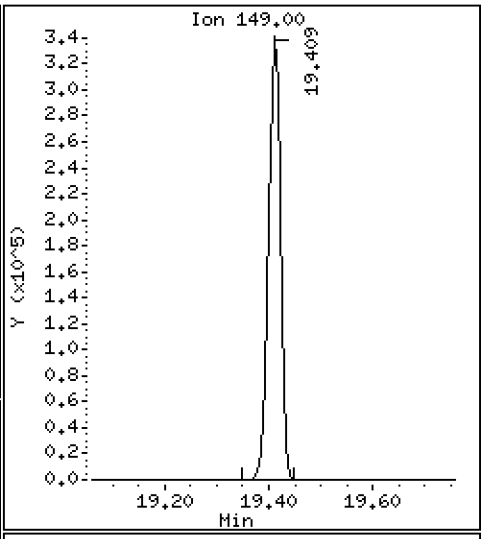
Column phase: ZB-5msi

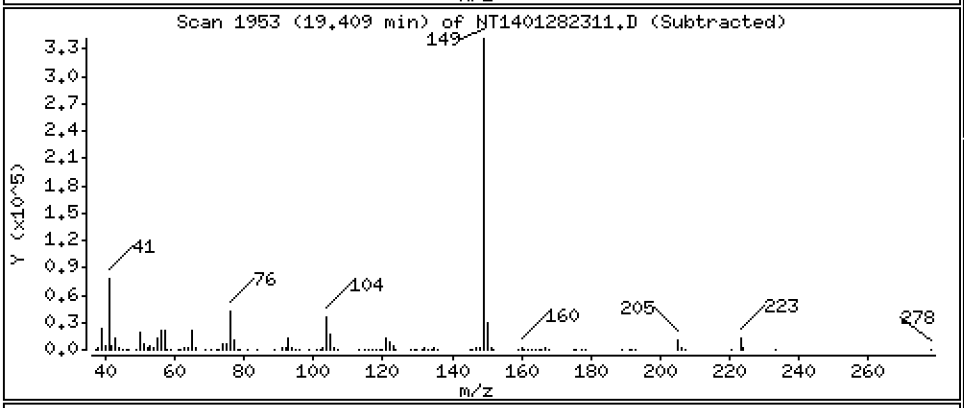
Column diameter: 0.25

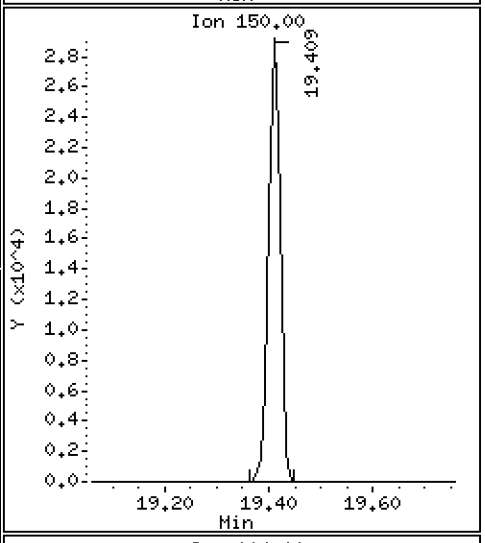
63 Di-n-butylphthalate

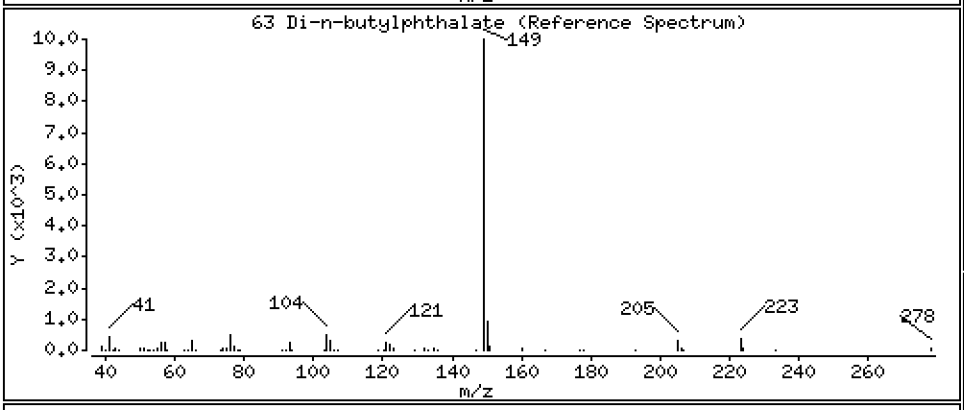
Concentration: 4.948 ug/mL

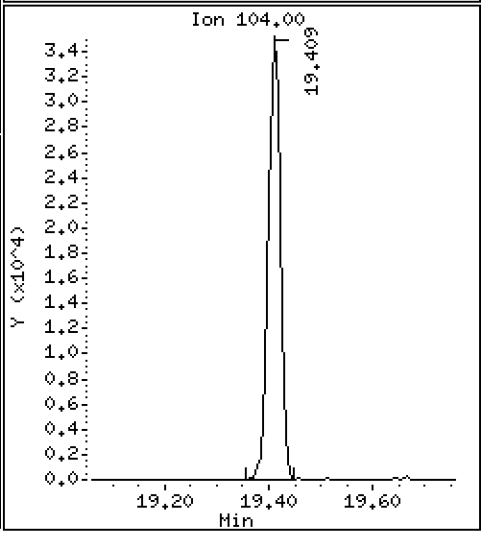


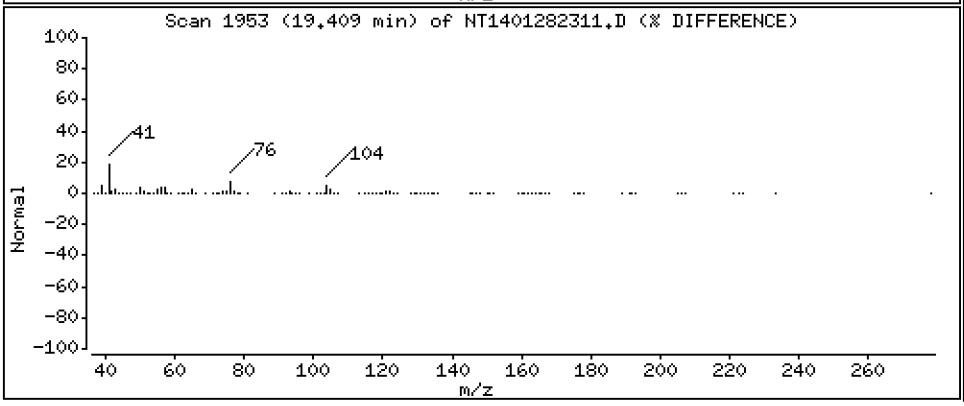












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

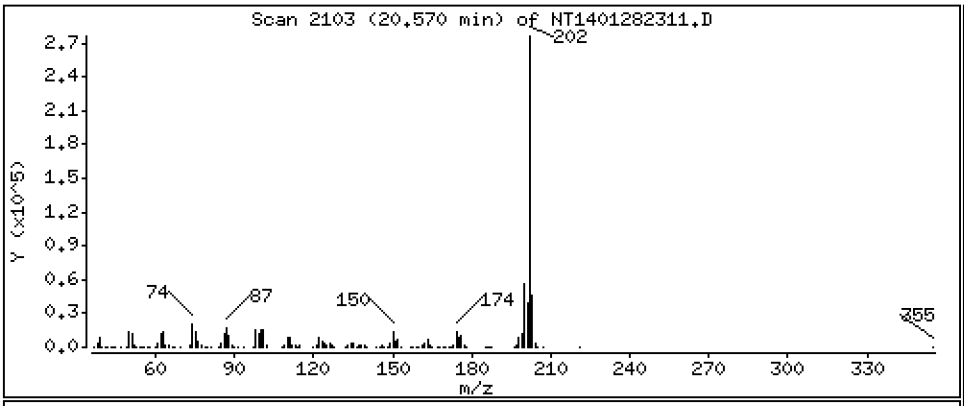
Operator: JGR

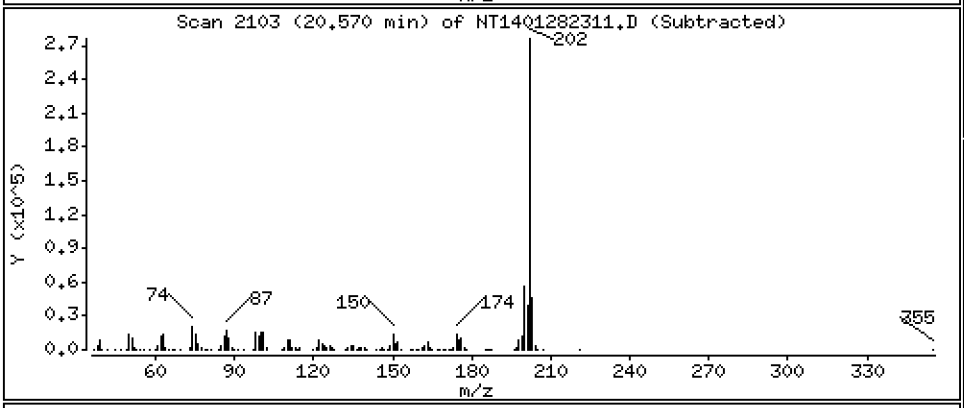
Column phase: ZB-5msi

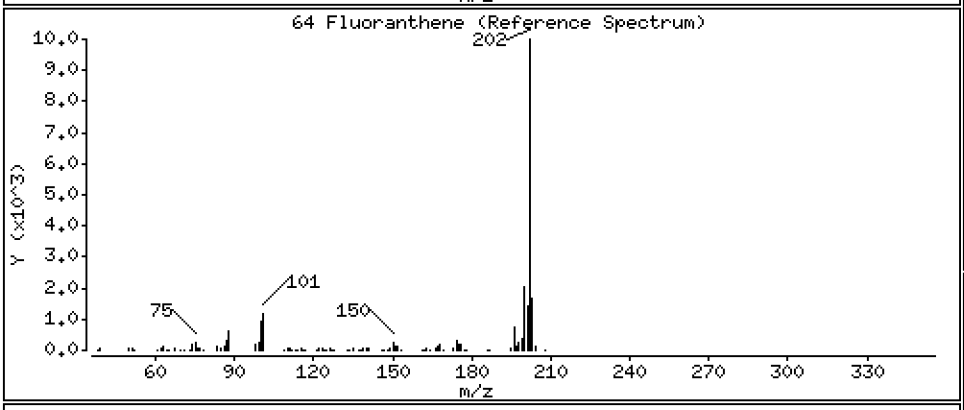
Column diameter: 0.25

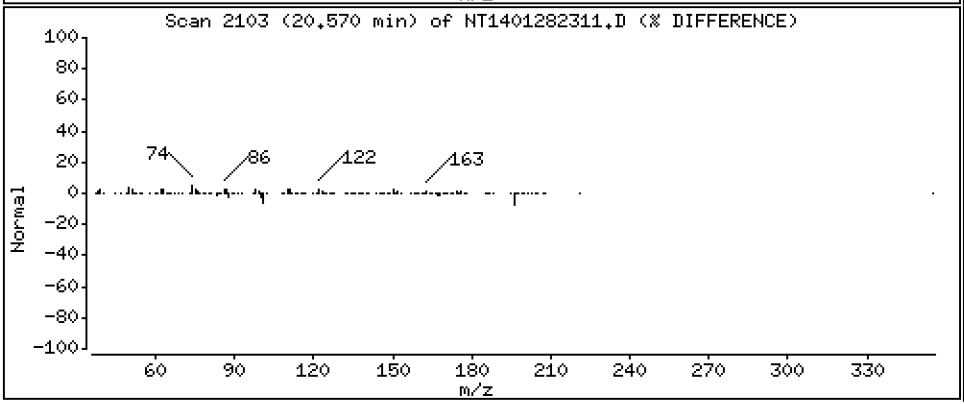
64 Fluoranthene

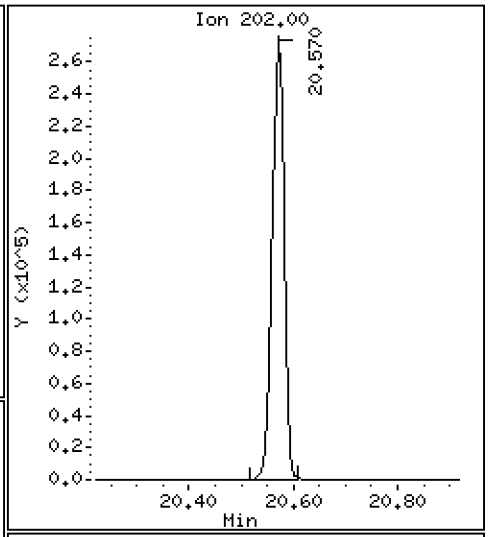
Concentration: 4.755 ug/mL

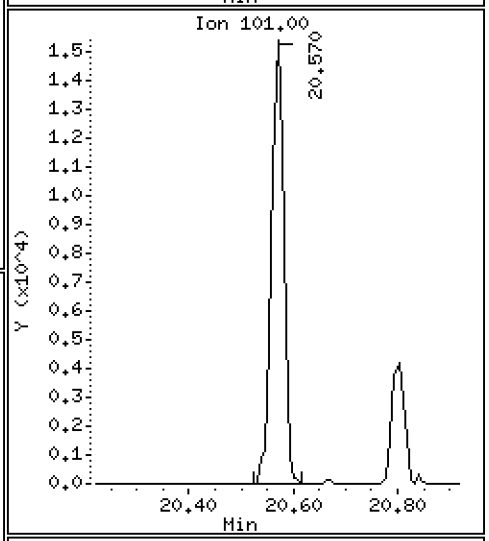


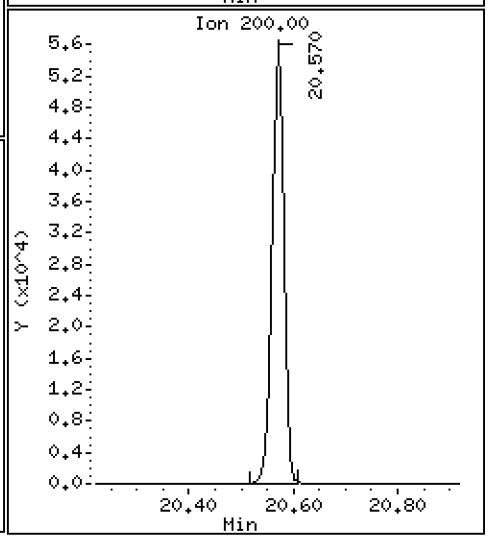












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

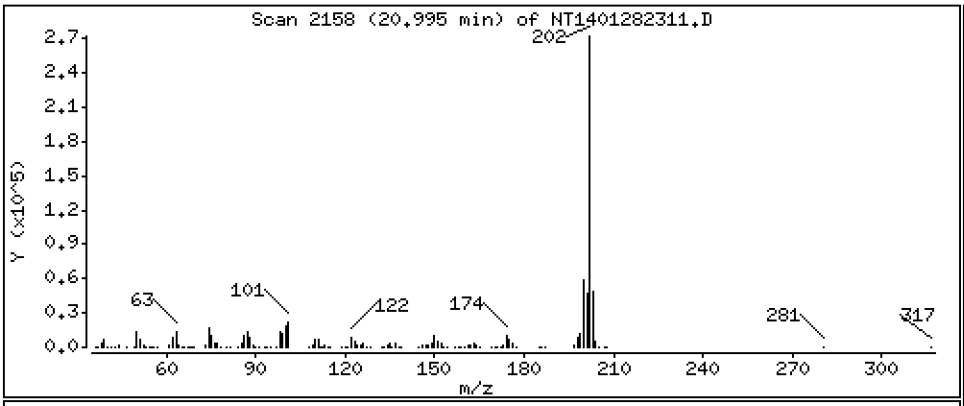
Operator: JGR

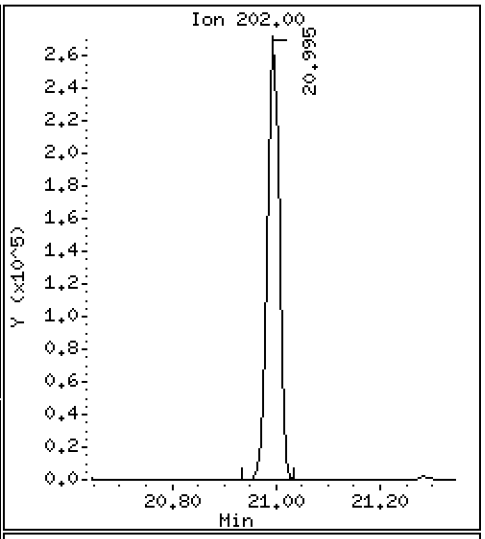
Column phase: ZB-5msi

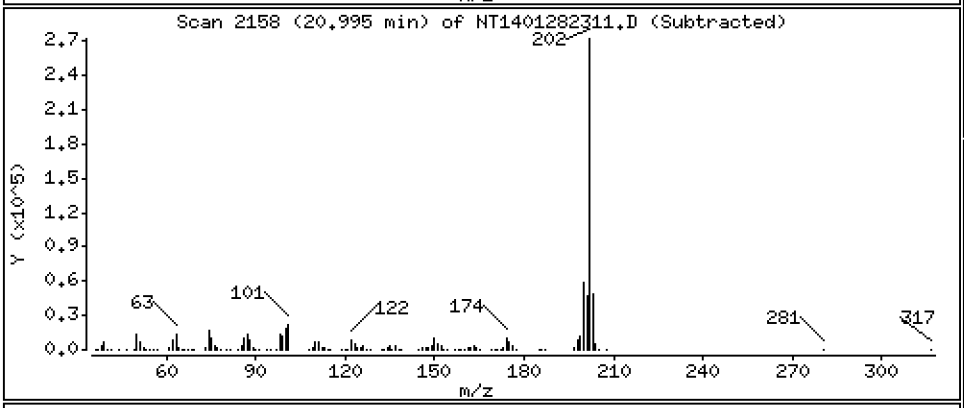
Column diameter: 0.25

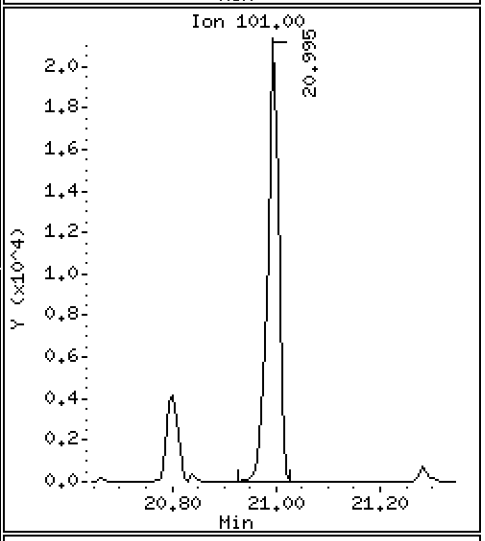
65 Pyrene

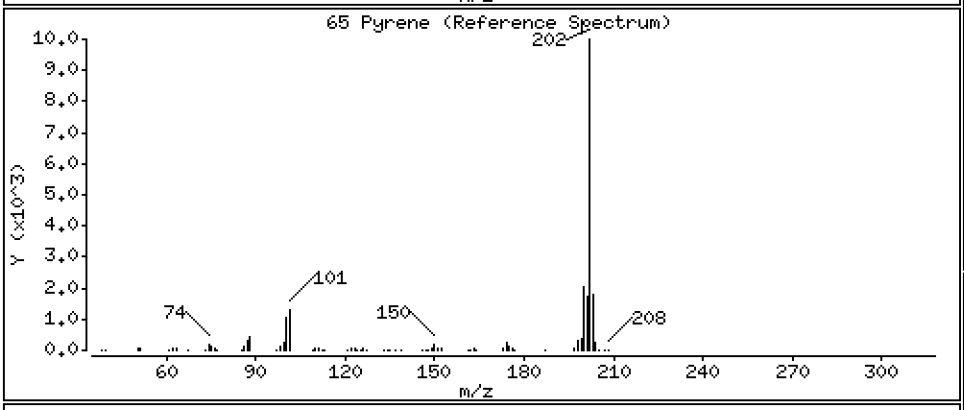
Concentration: 4.702 ug/mL

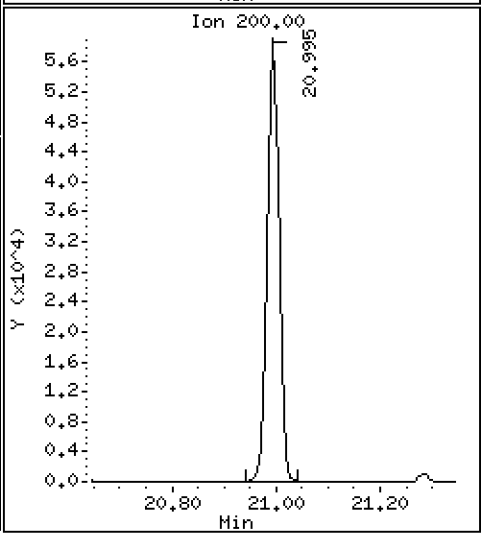


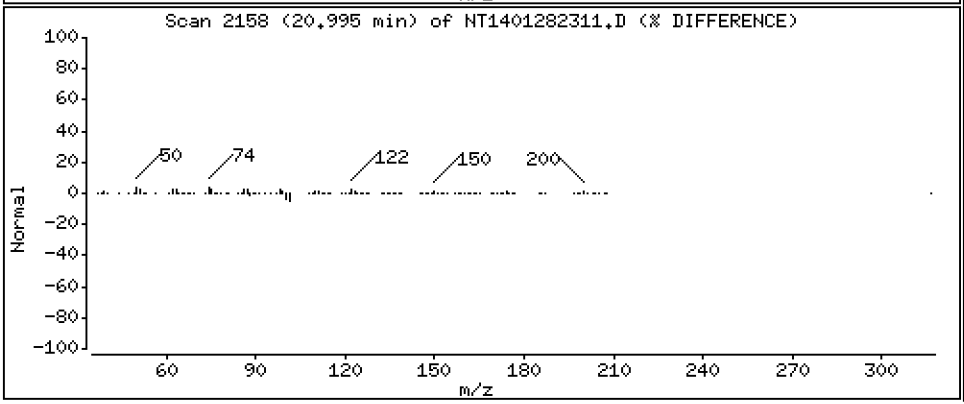












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

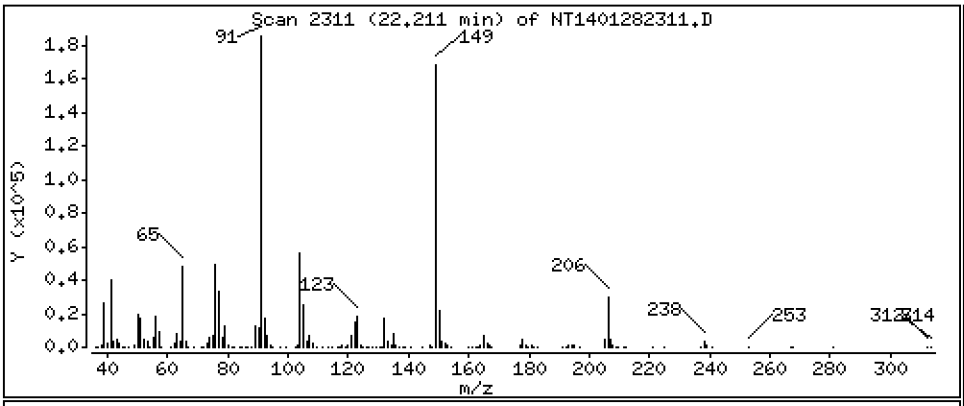
Operator: JGR

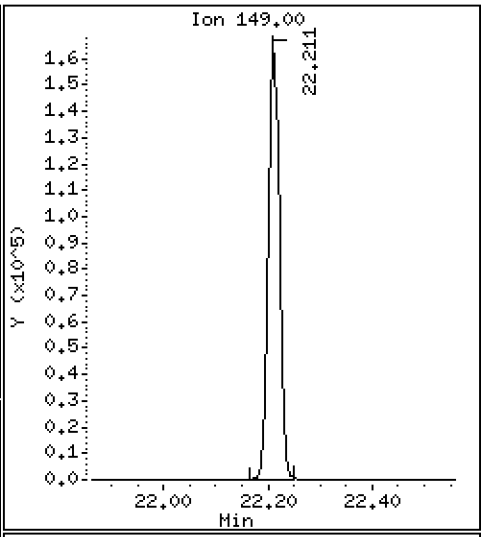
Column phase: ZB-5msi

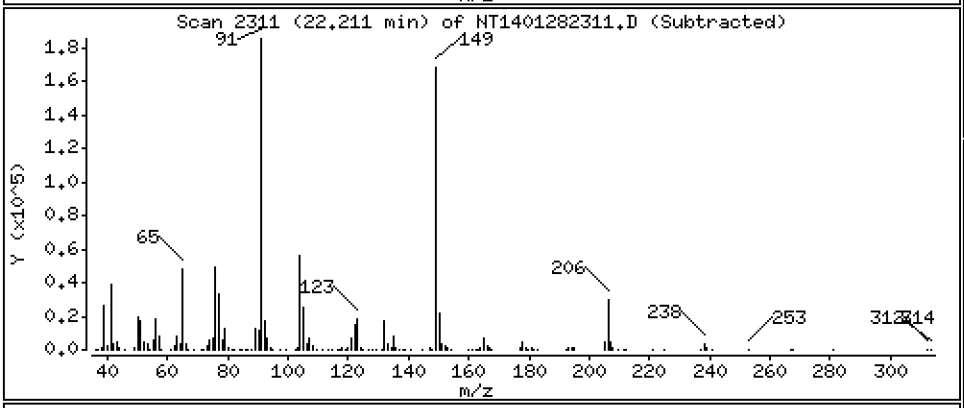
Column diameter: 0.25

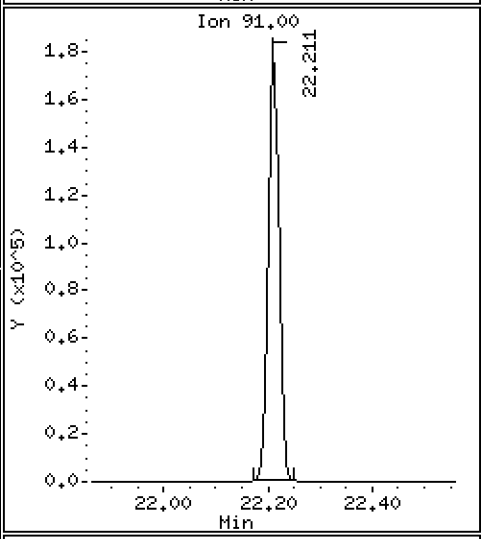
67 Butylbenzylphthalate

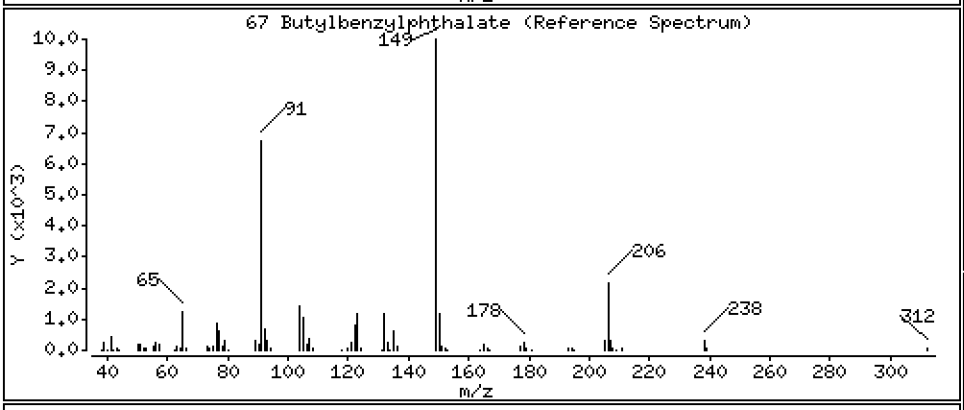
Concentration: 4.844 ug/mL

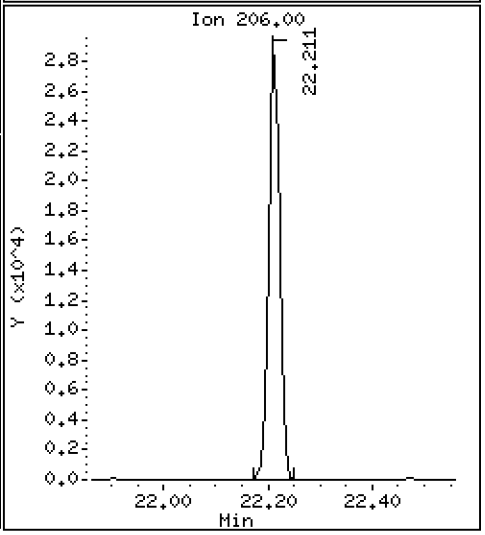


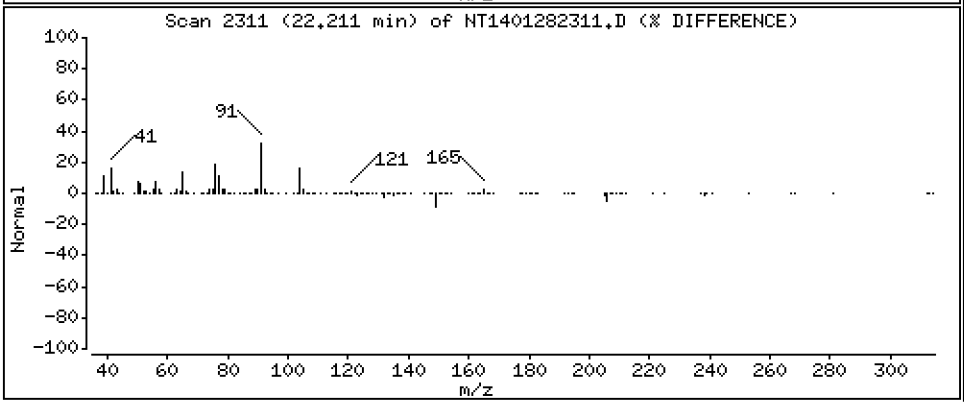












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

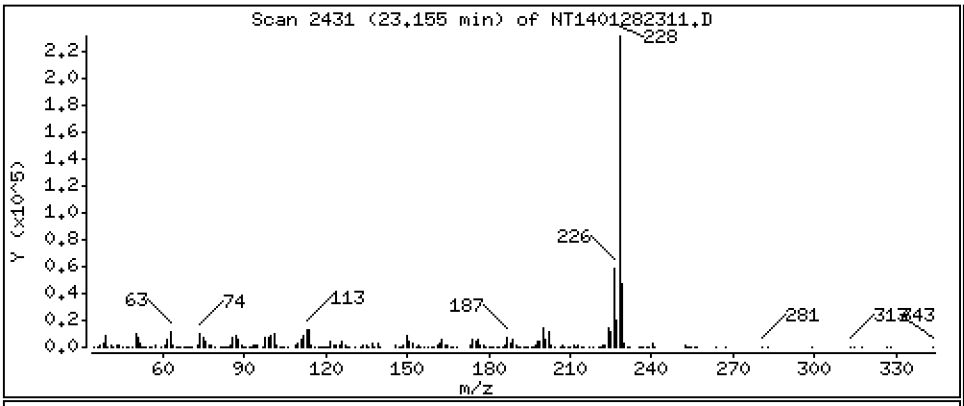
Operator: JGR

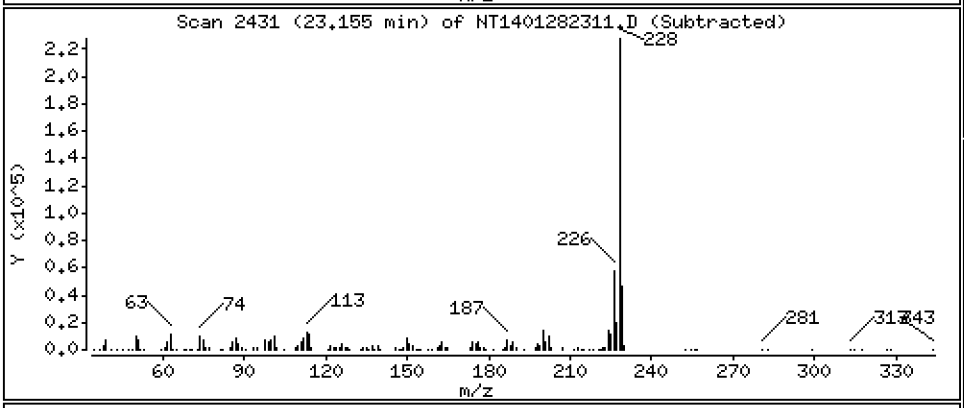
Column phase: ZB-5msi

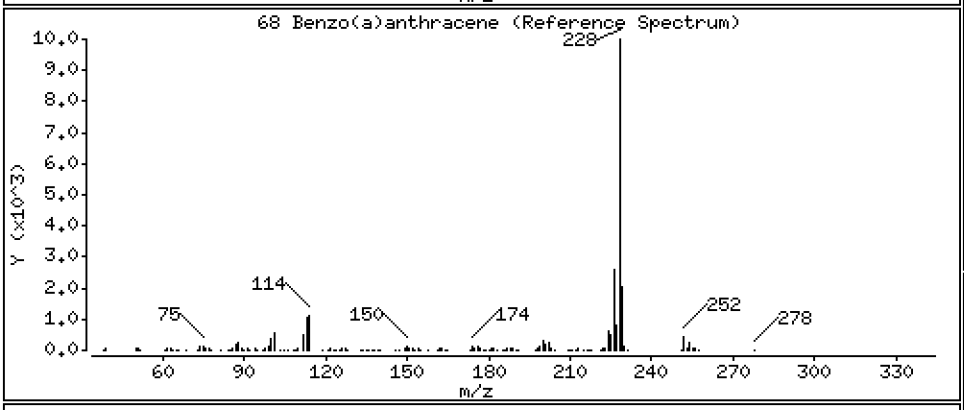
Column diameter: 0.25

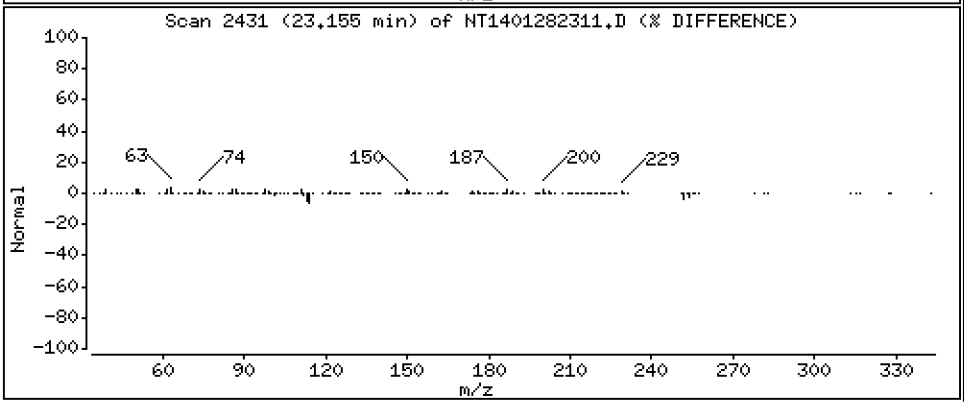
68 Benzo(a)anthracene

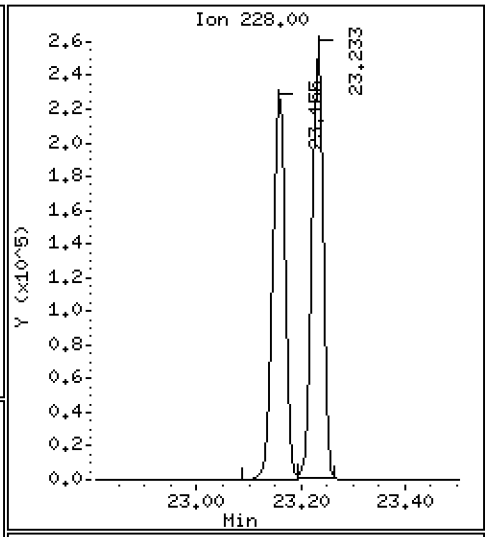
Concentration: 4.571 ug/mL

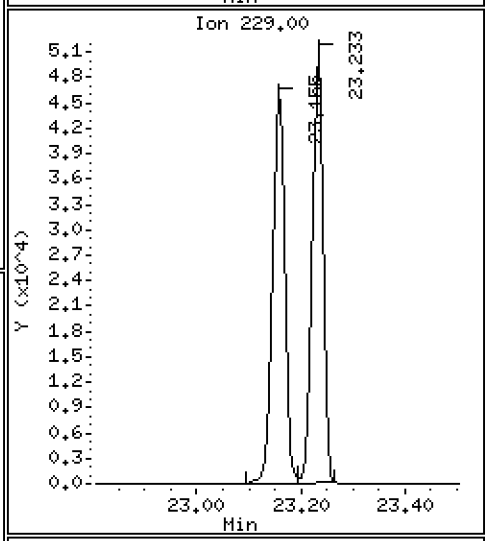


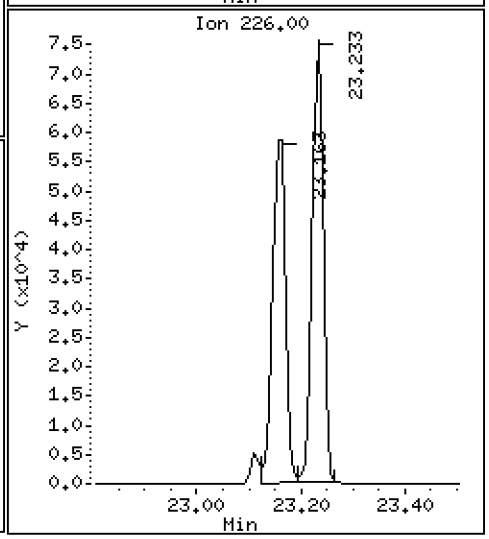












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

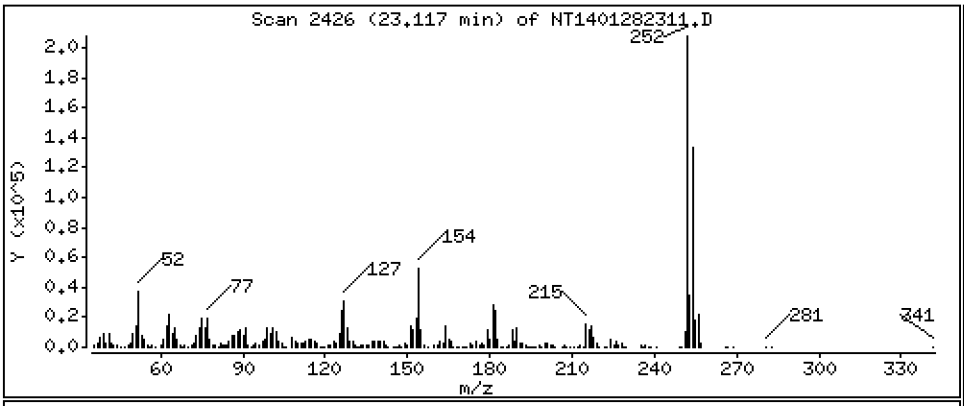
Operator: JGR

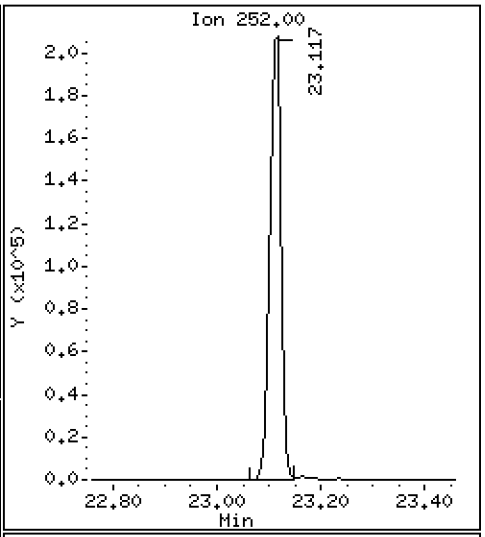
Column phase: ZB-5msi

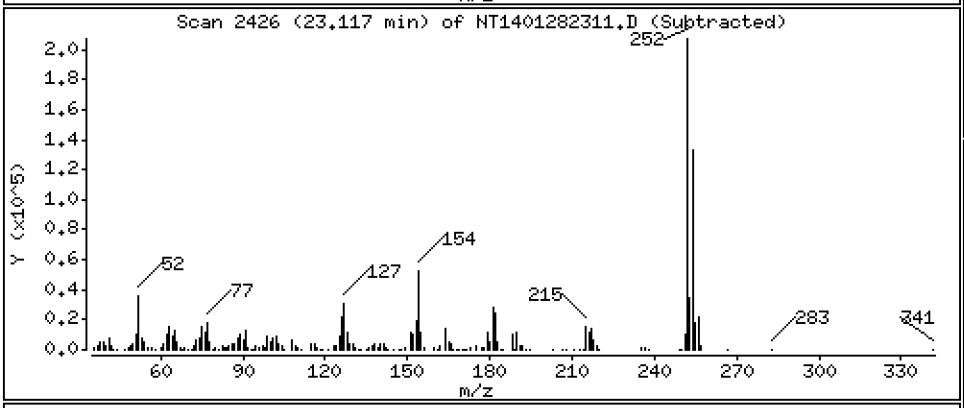
Column diameter: 0.25

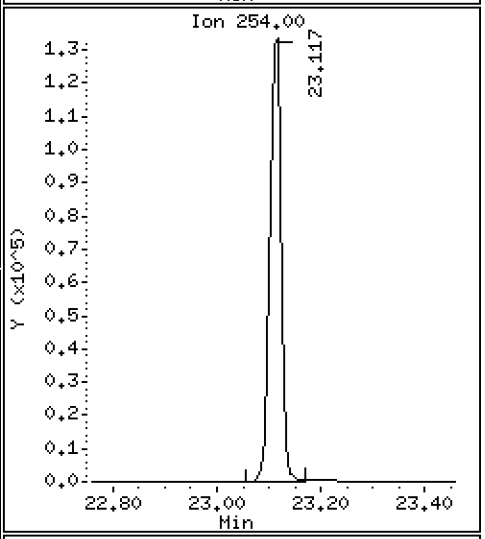
70 3,3'-Dichlorobenzidine

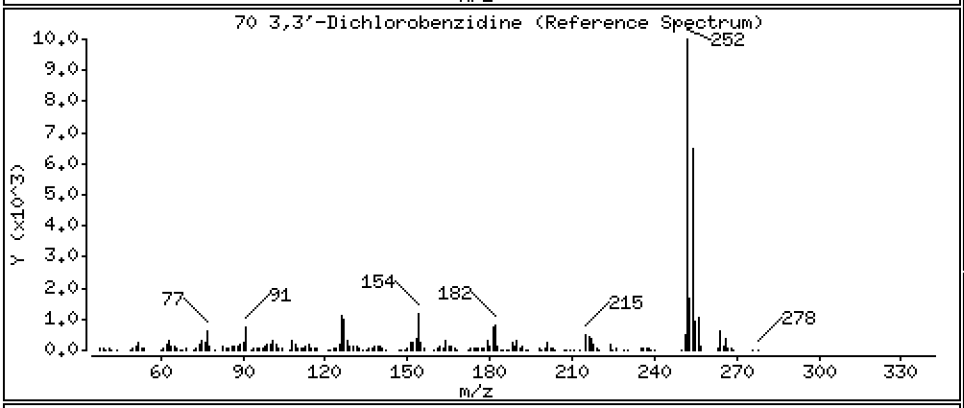
Concentration: 8.226 ug/mL

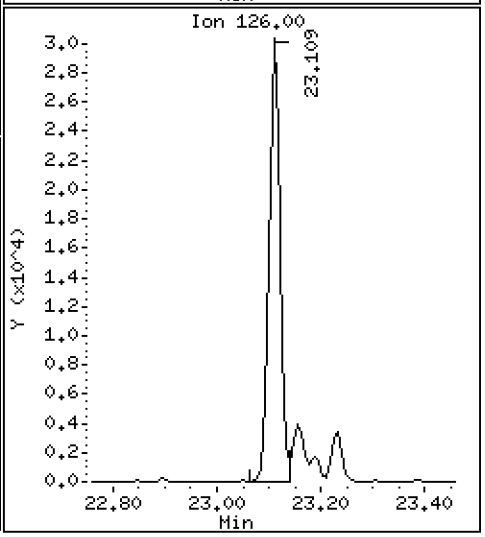


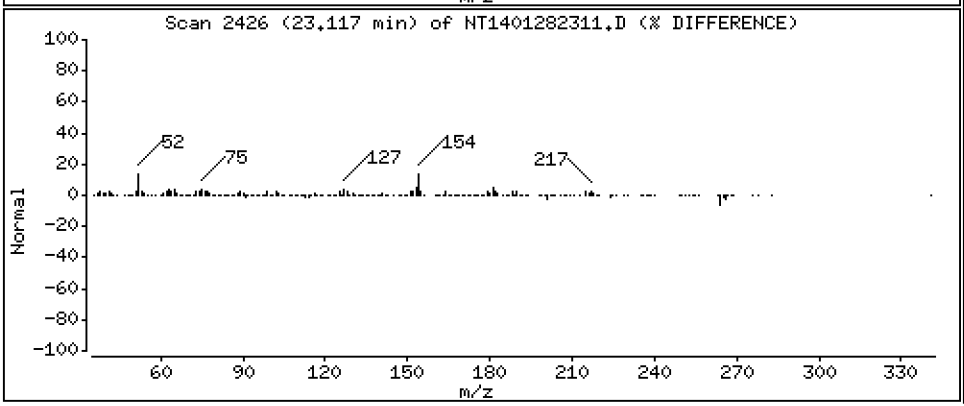












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

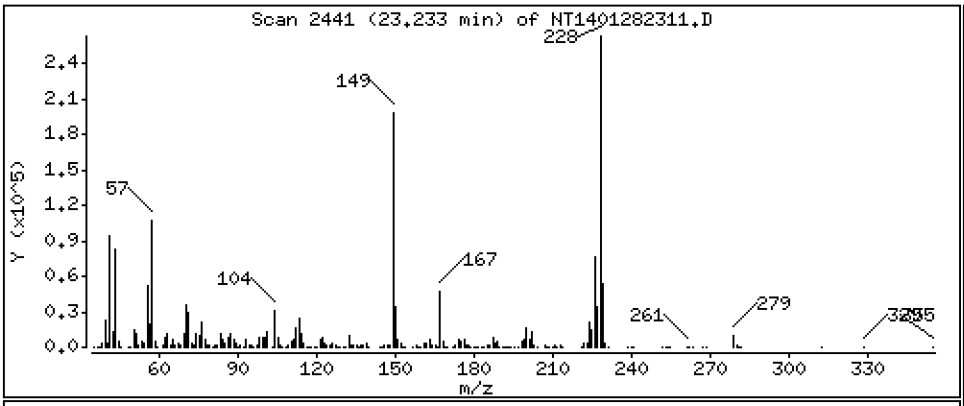
Operator: JGR

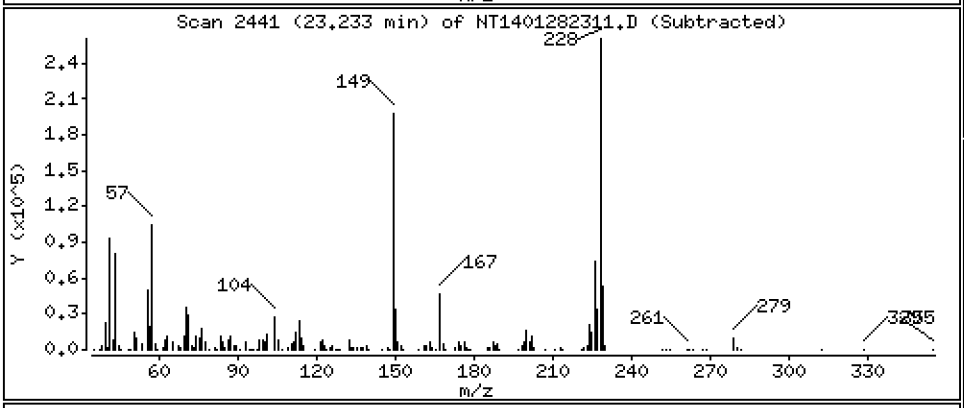
Column phase: ZB-5msi

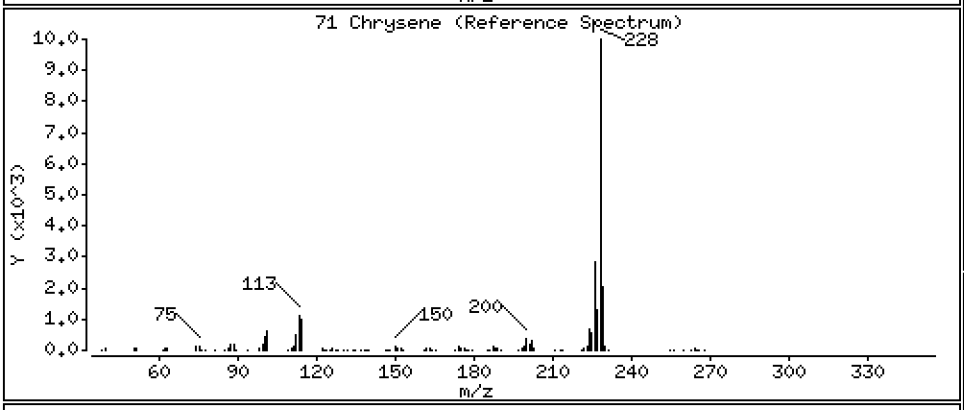
Column diameter: 0.25

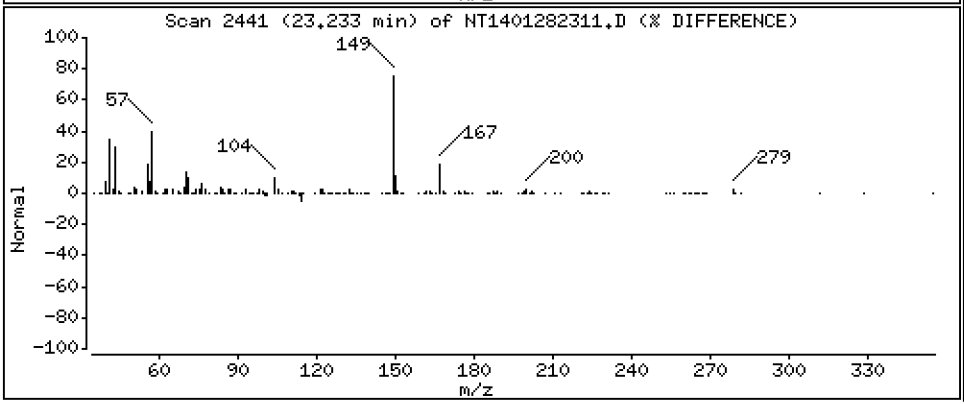
71 Chrysene

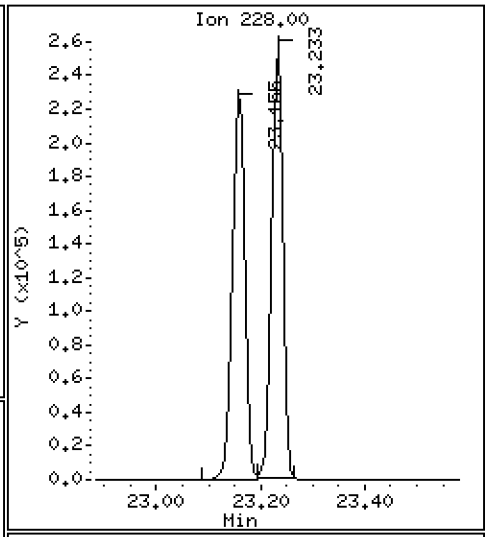
Concentration: 4.466 ug/mL

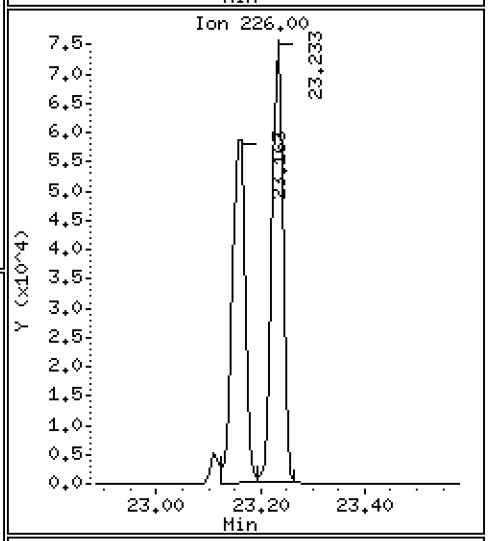


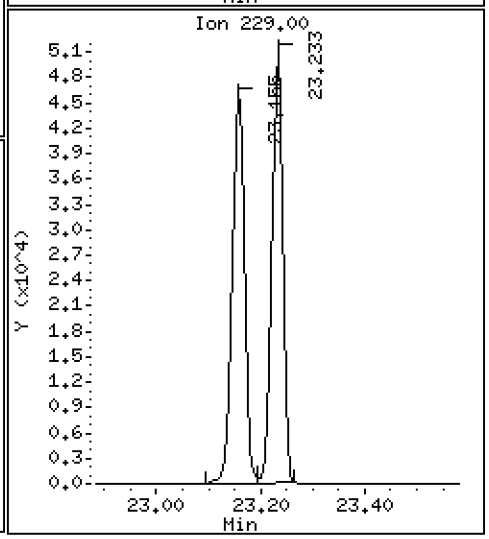












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

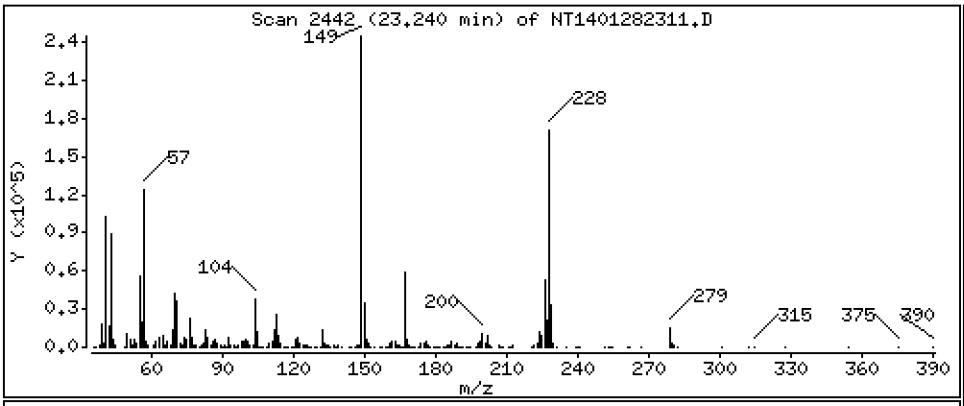
Operator: JGR

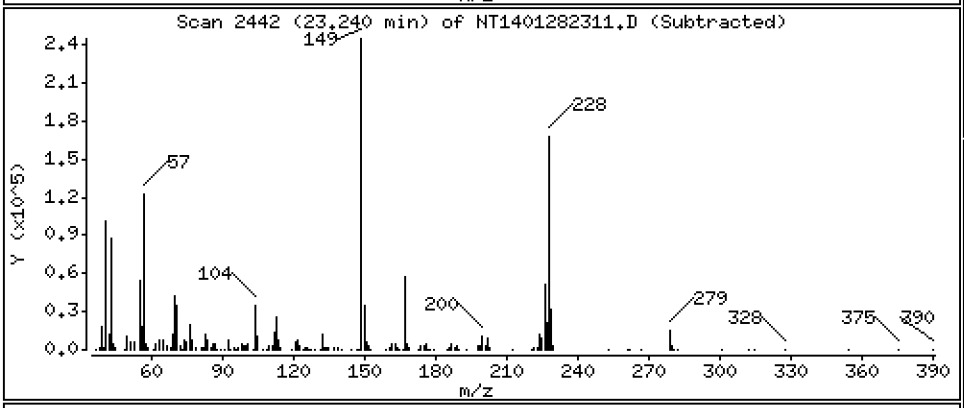
Column phase: ZB-5msi

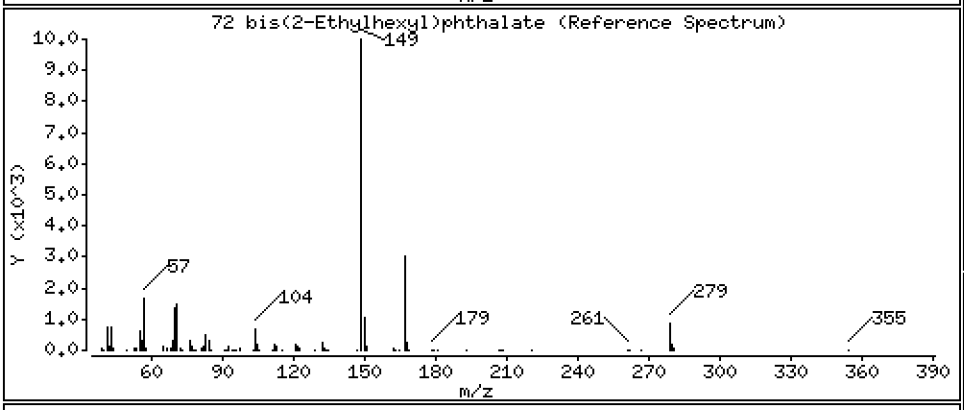
Column diameter: 0.25

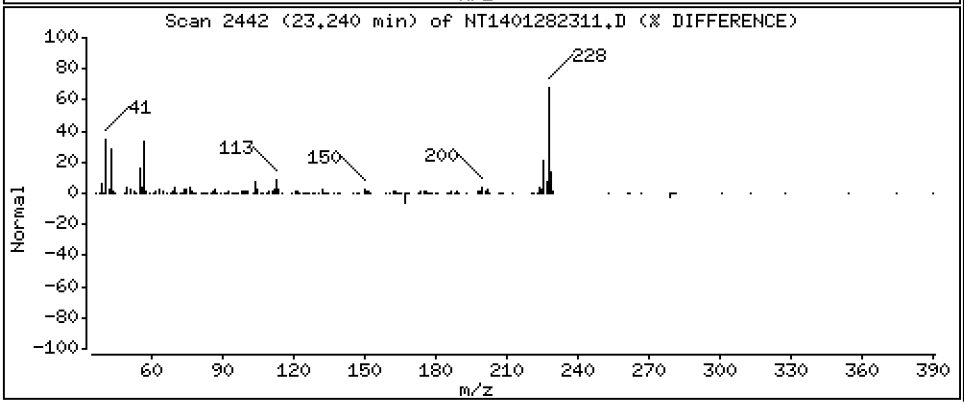
72 bis(2-Ethylhexyl)phthalate

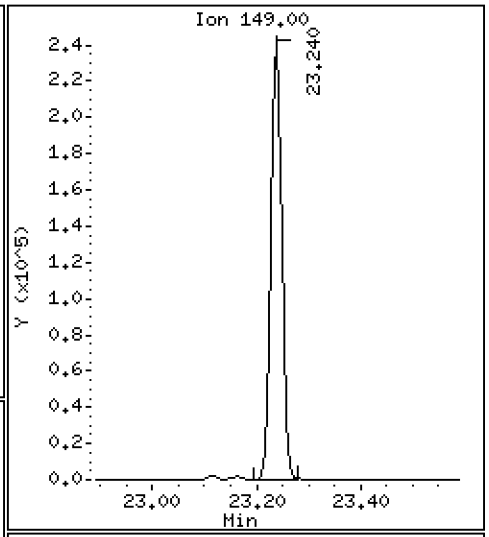
Concentration: 4.823 ug/mL

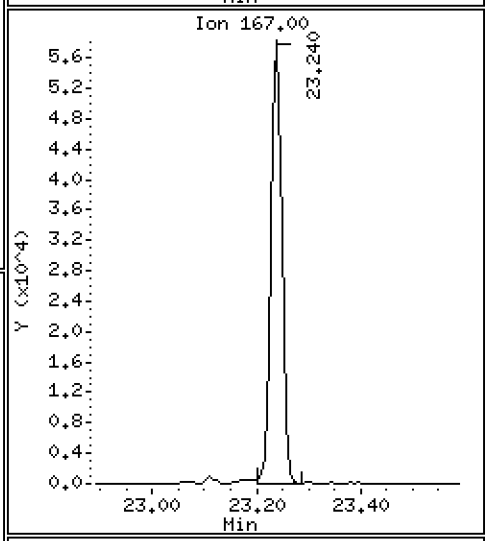


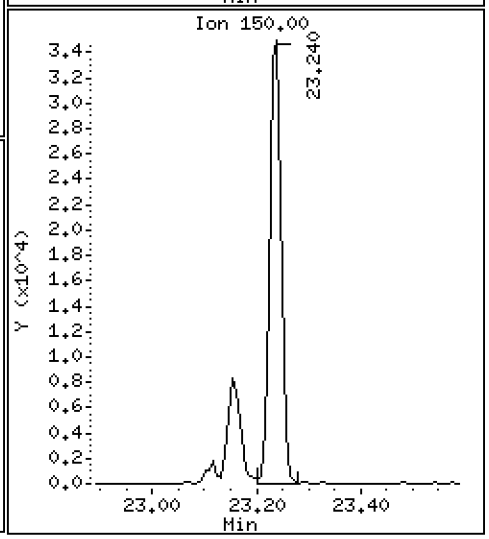












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

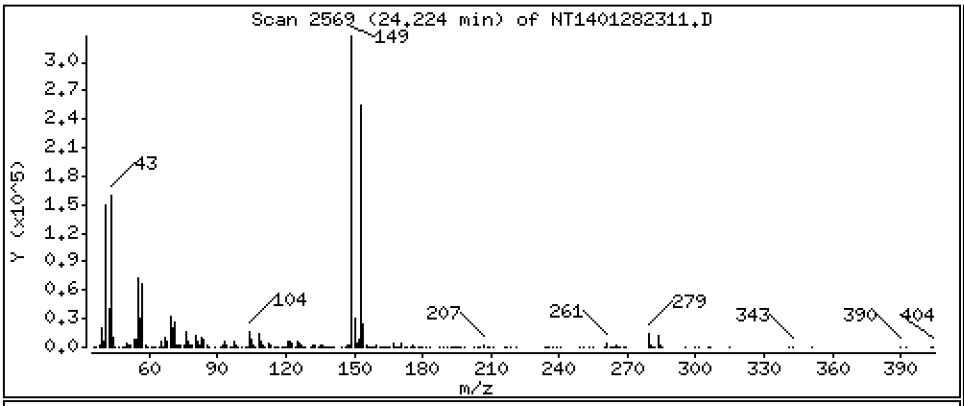
Operator: JGR

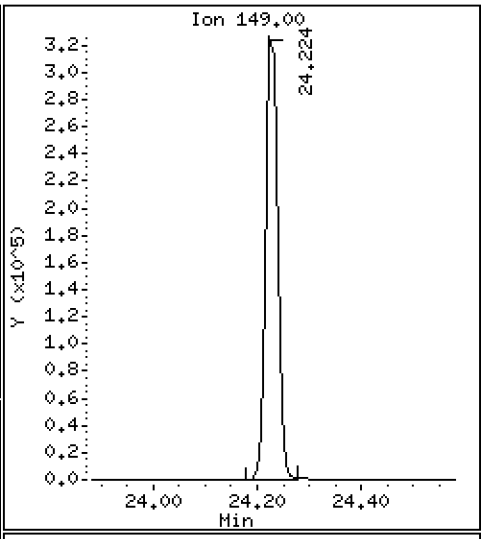
Column phase: ZB-5msi

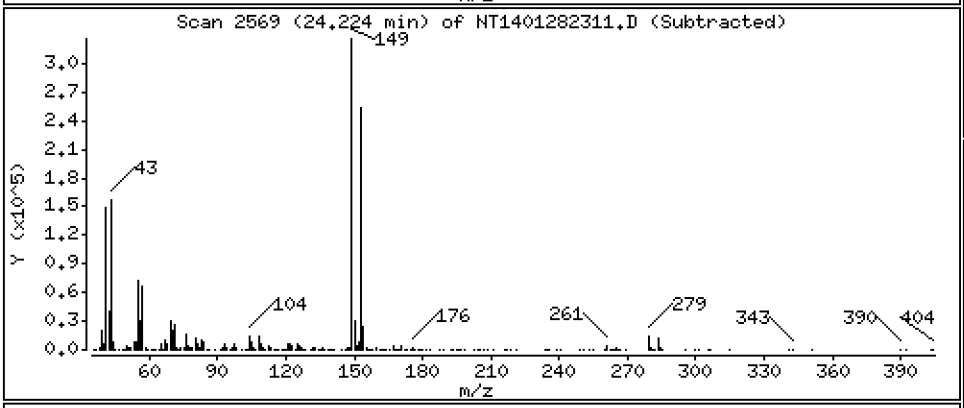
Column diameter: 0.25

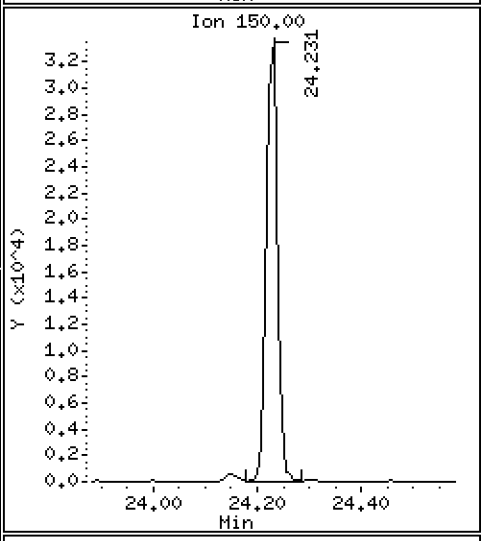
73 Di-n-octylphthalate

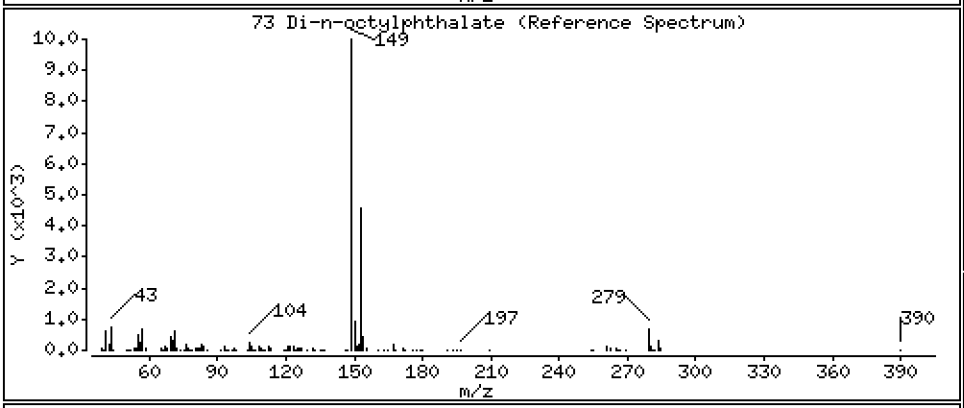
Concentration: 4.835 ug/mL

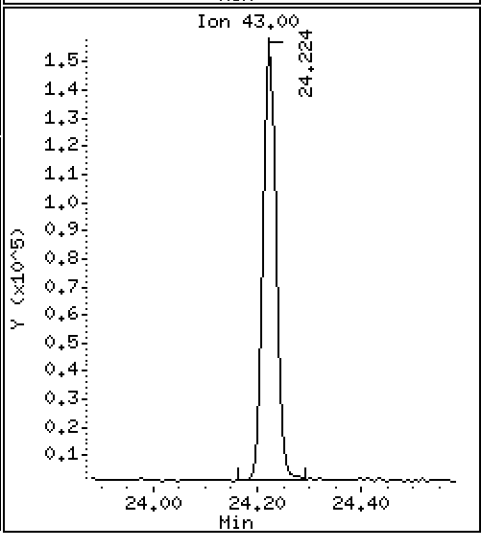


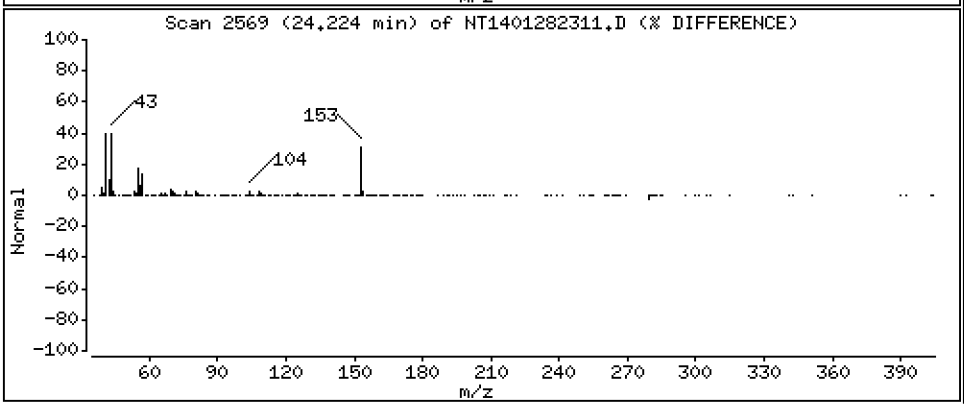












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

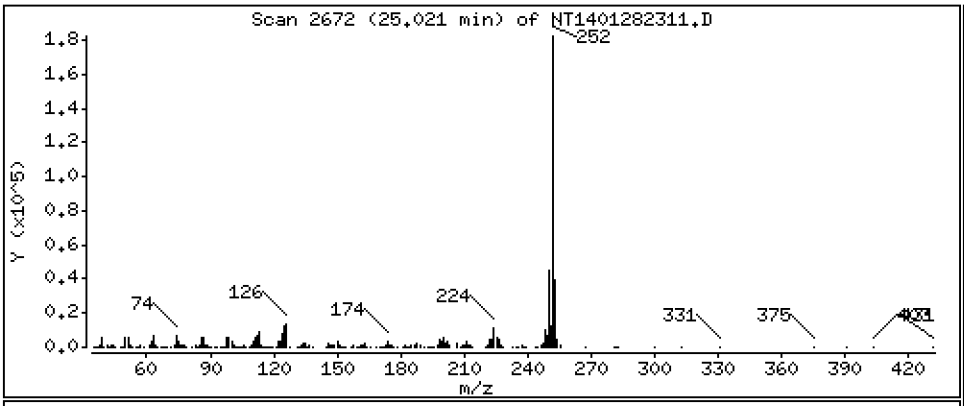
Operator: JGR

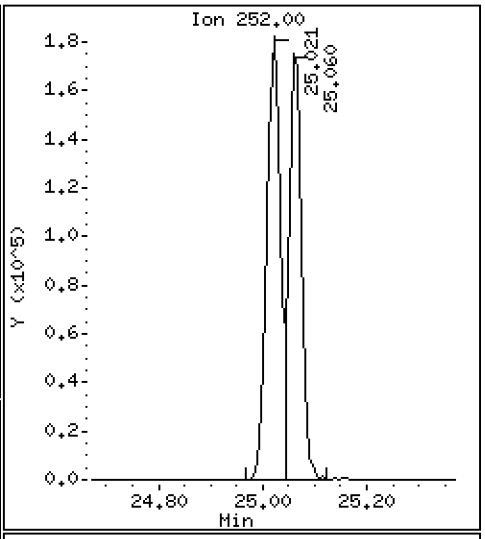
Column phase: ZB-5msi

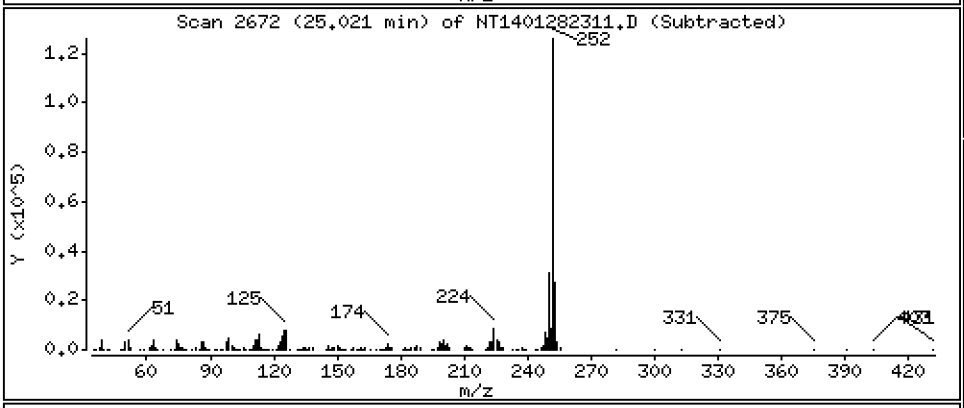
Column diameter: 0.25

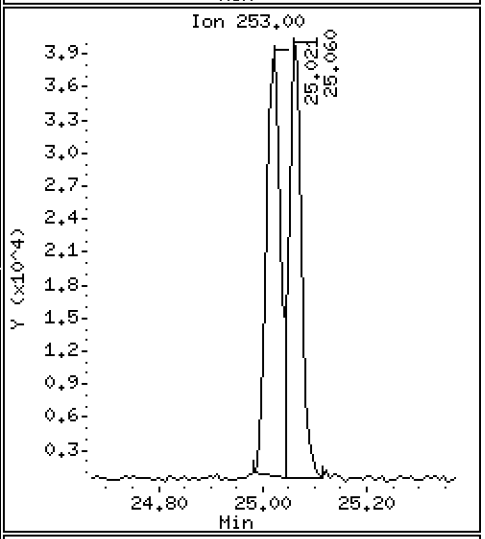
74 Benzo(b)fluoranthene

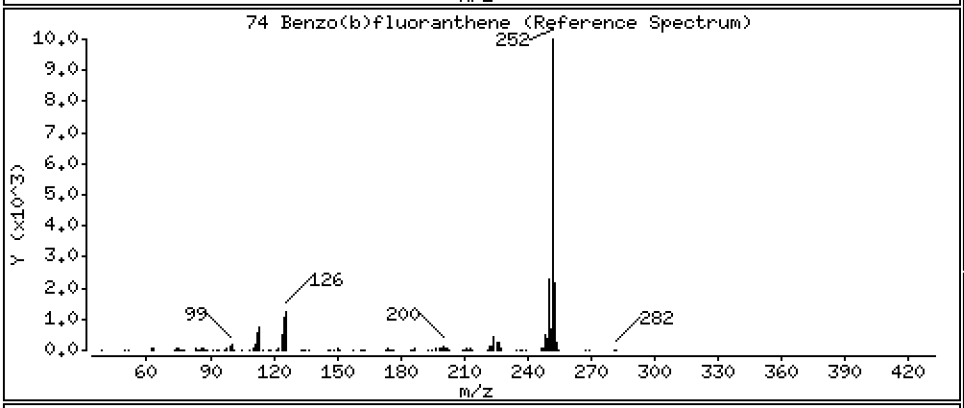
Concentration: 4.734 ug/mL

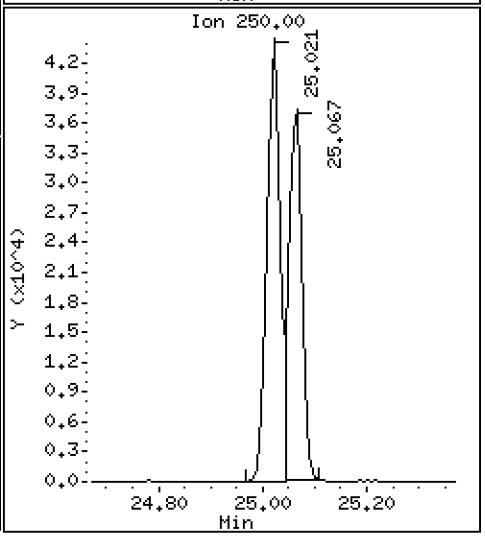


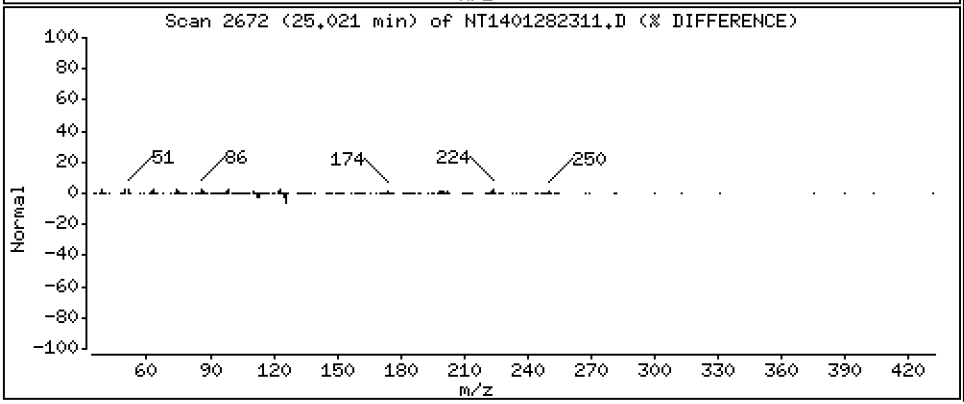












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

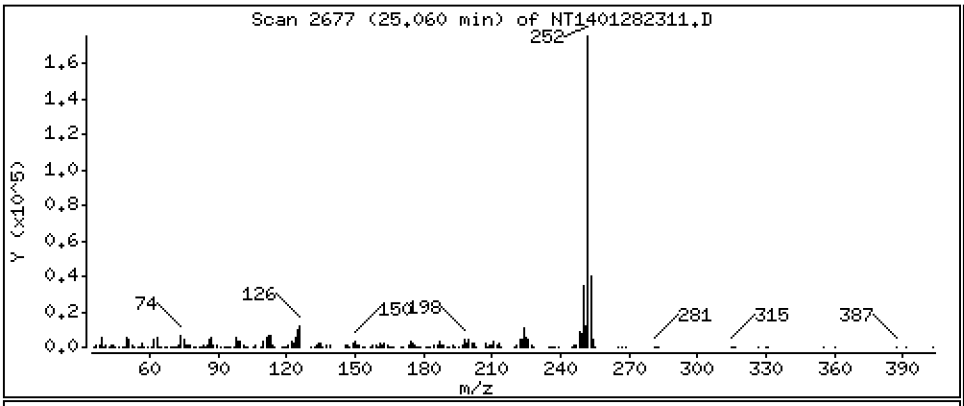
Operator: JGR

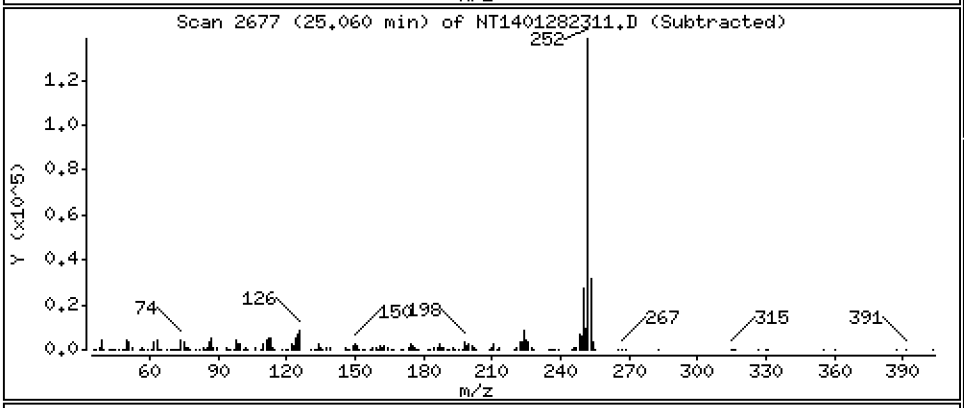
Column phase: ZB-5msi

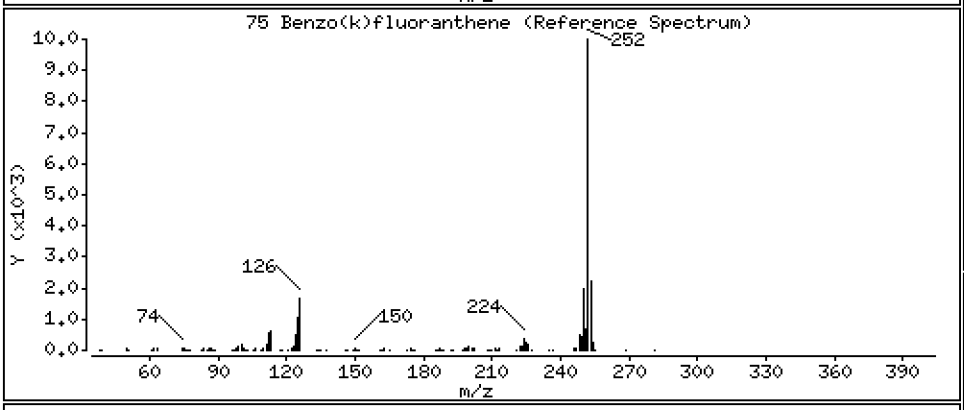
Column diameter: 0.25

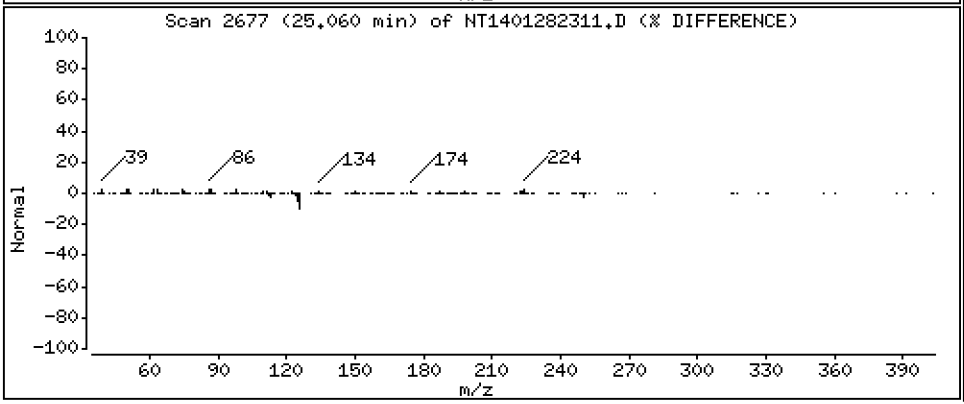
75 Benzo(k)fluoranthene

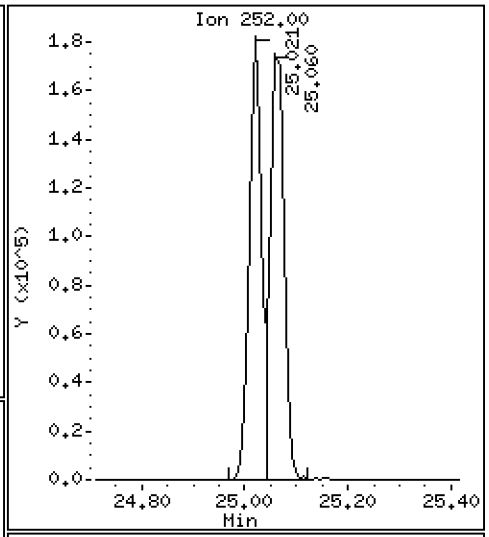
Concentration: 4.387 ug/mL

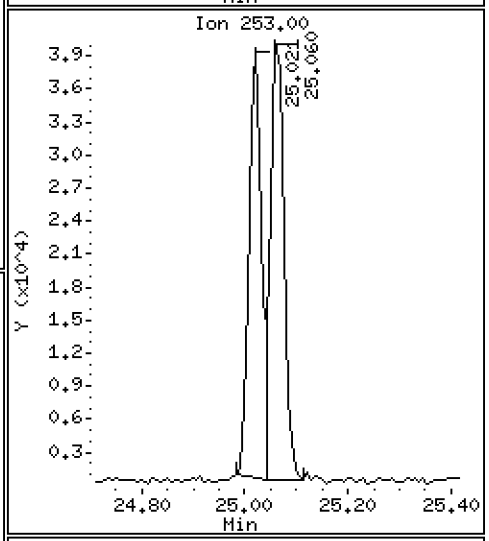


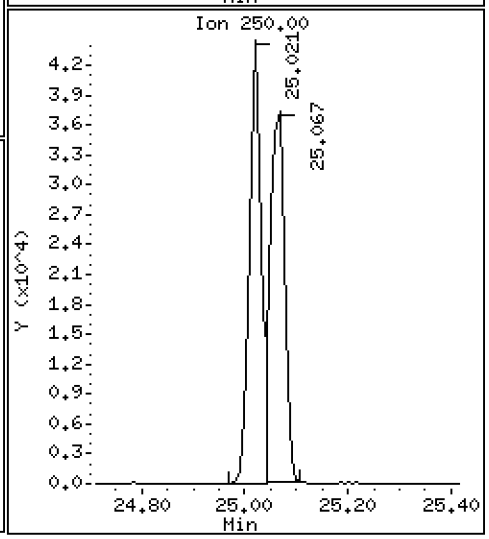












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

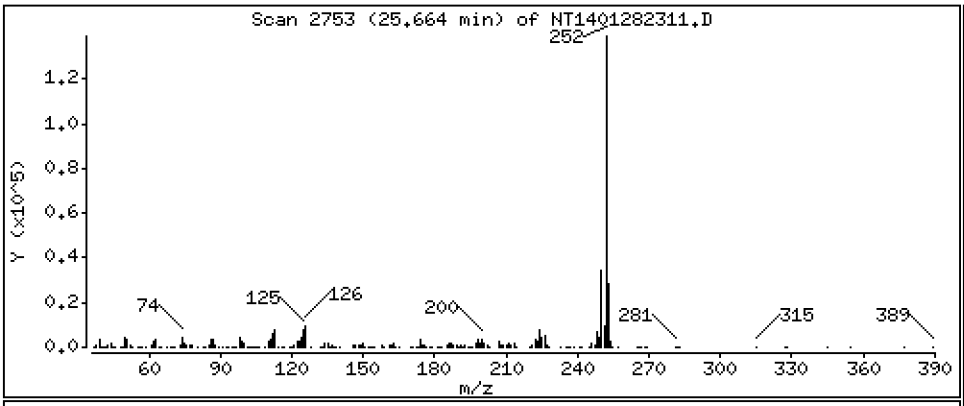
Operator: JGR

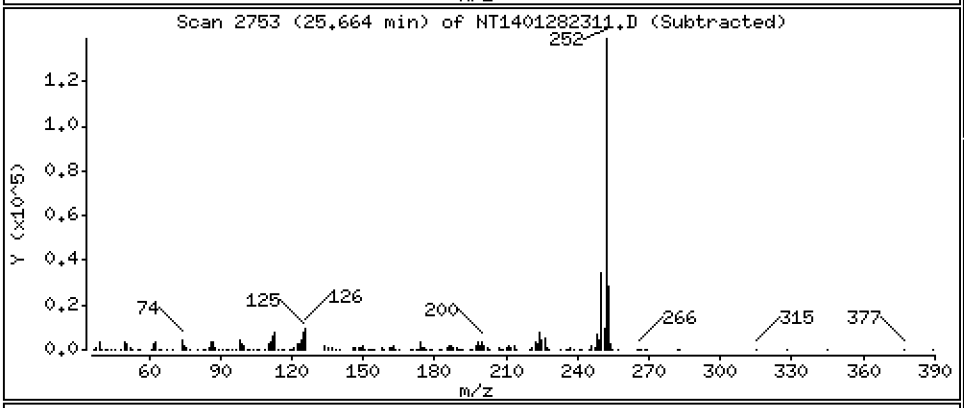
Column phase: ZB-5msi

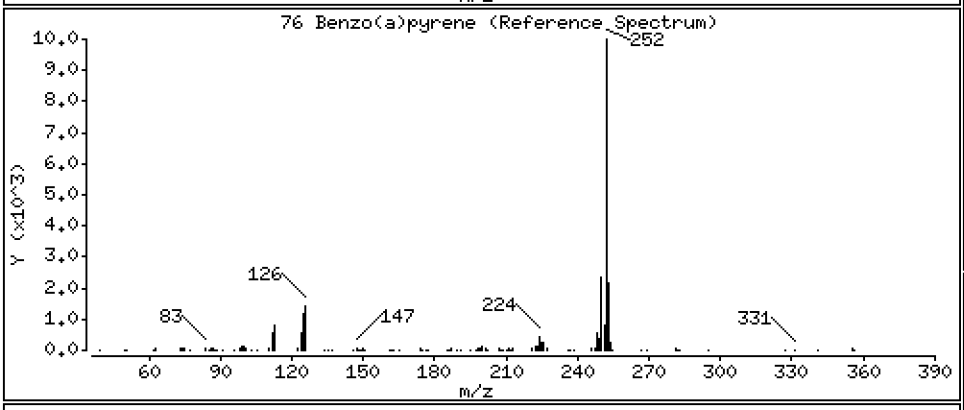
Column diameter: 0.25

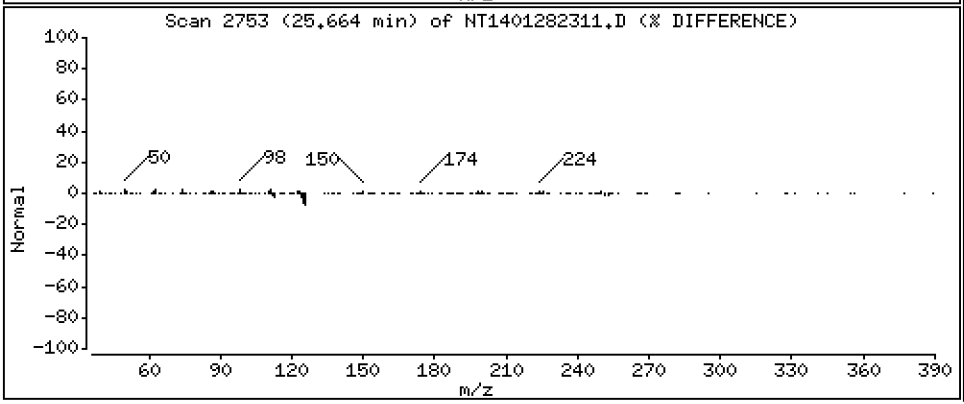
76 Benzo(a)pyrene

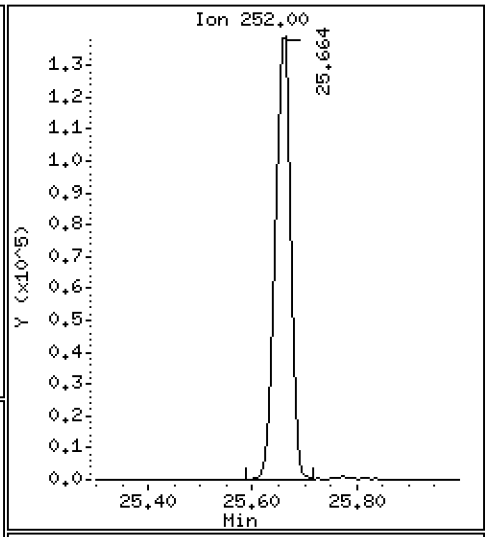
Concentration: 4.660 ug/mL

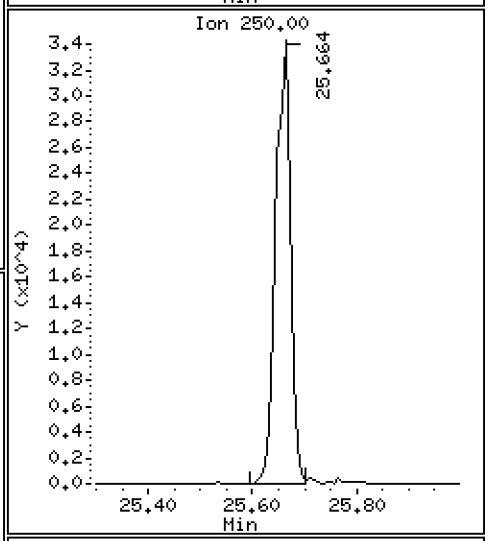


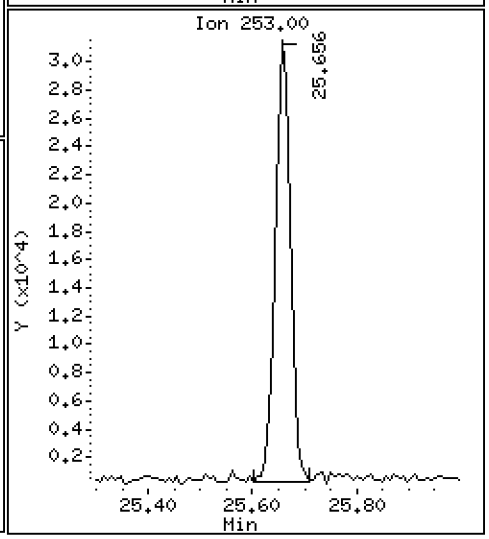












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

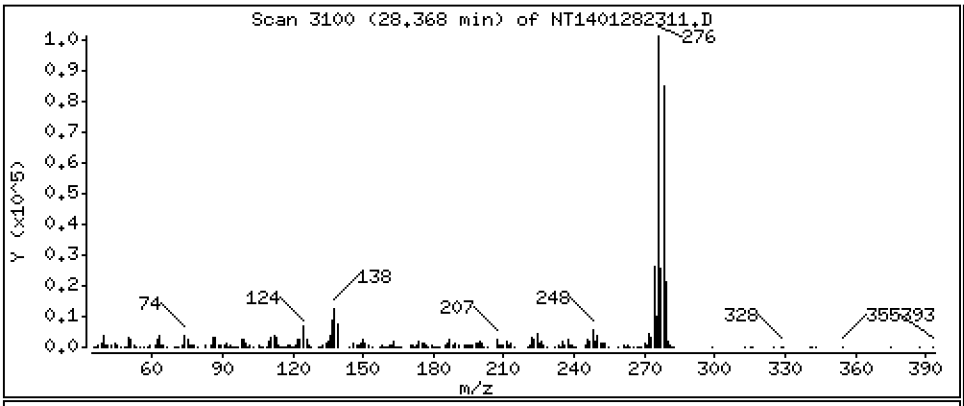
Operator: JGR

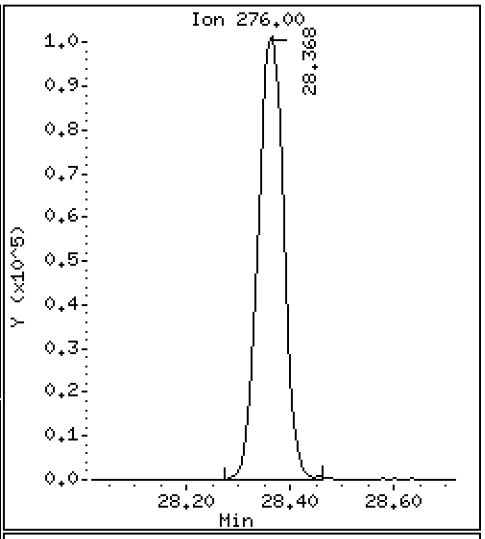
Column phase: ZB-5msi

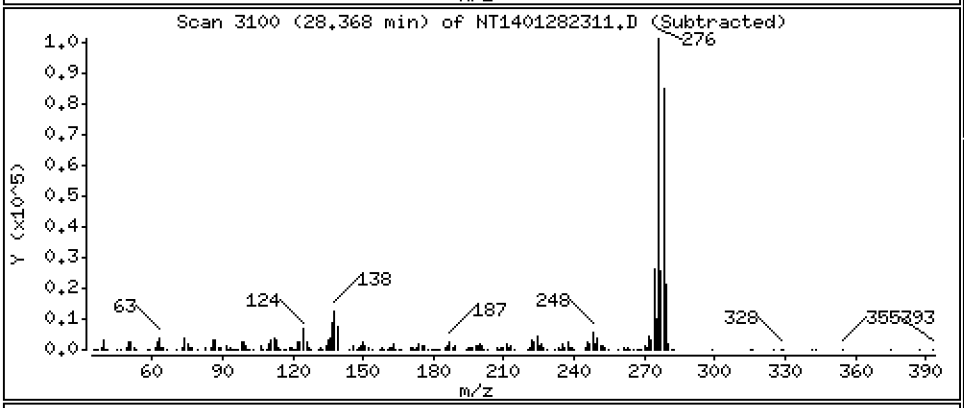
Column diameter: 0.25

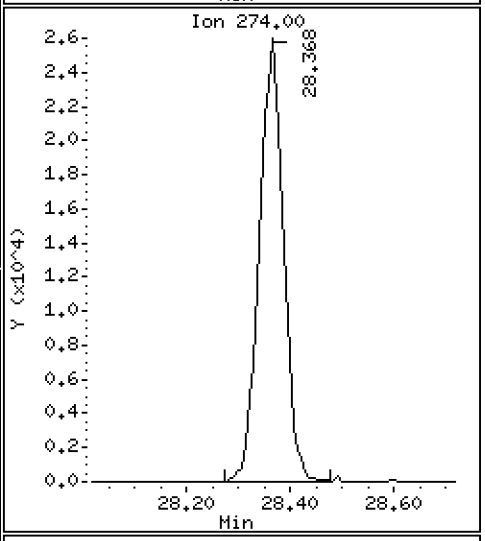
78 Indeno(1,2,3-cd)pyrene

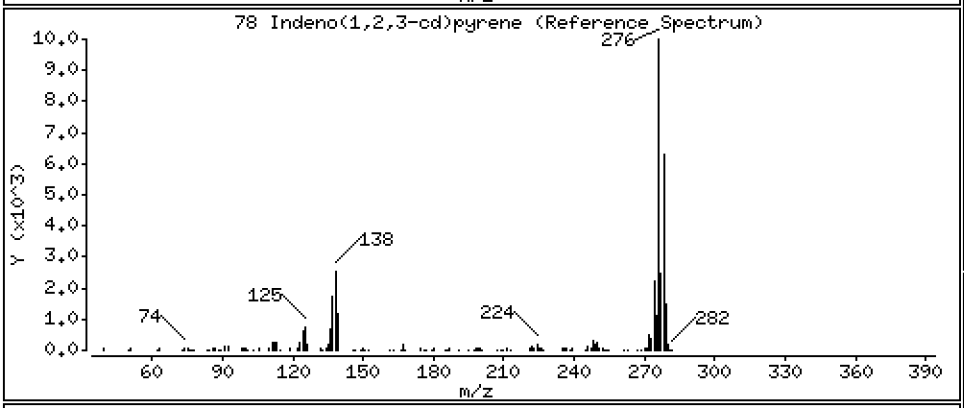
Concentration: 4.636 ug/mL

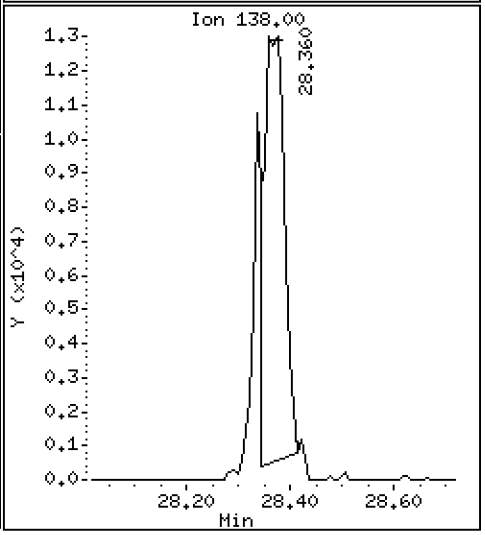


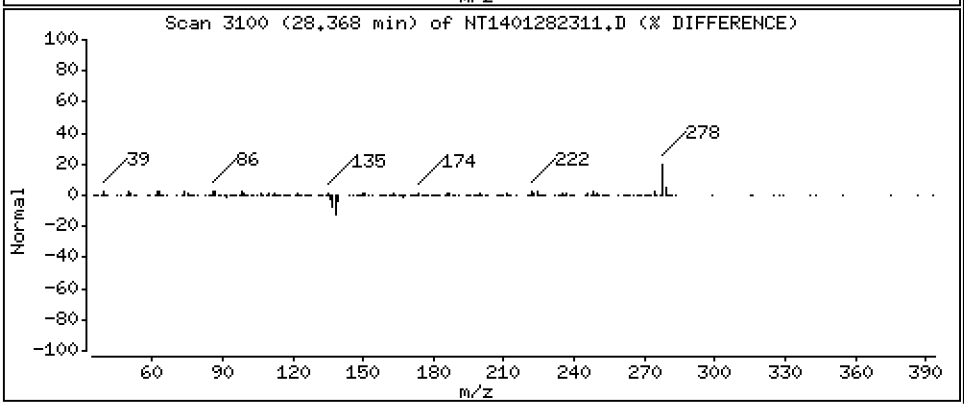












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

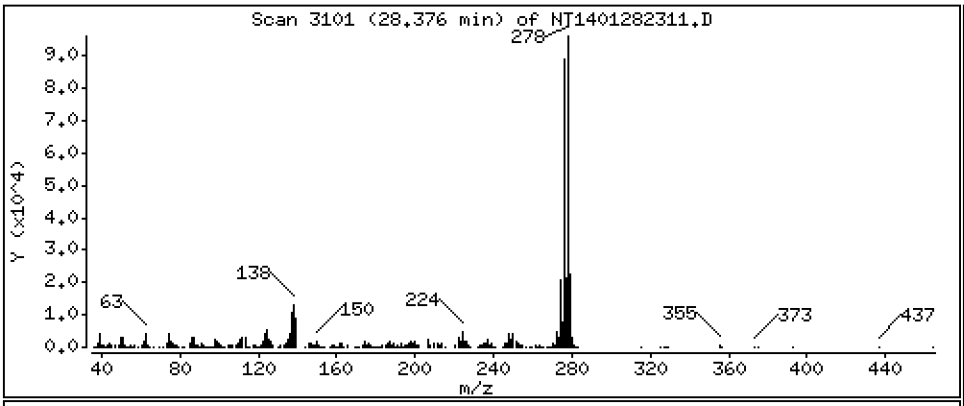
Operator: JGR

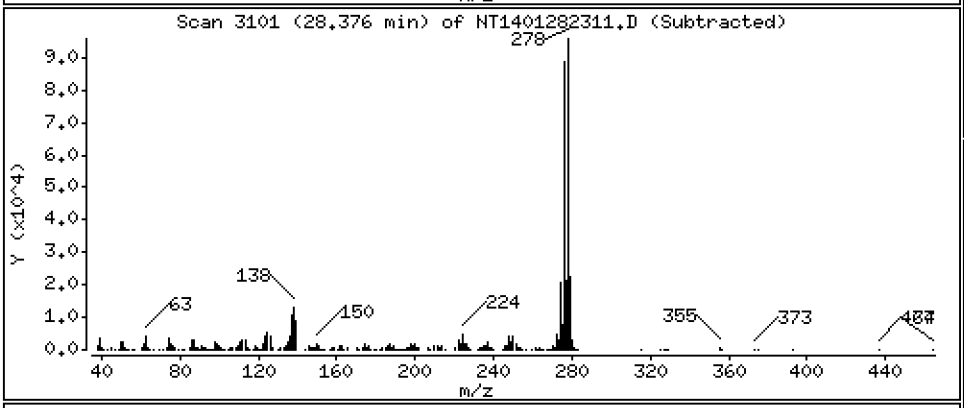
Column phase: ZB-5msi

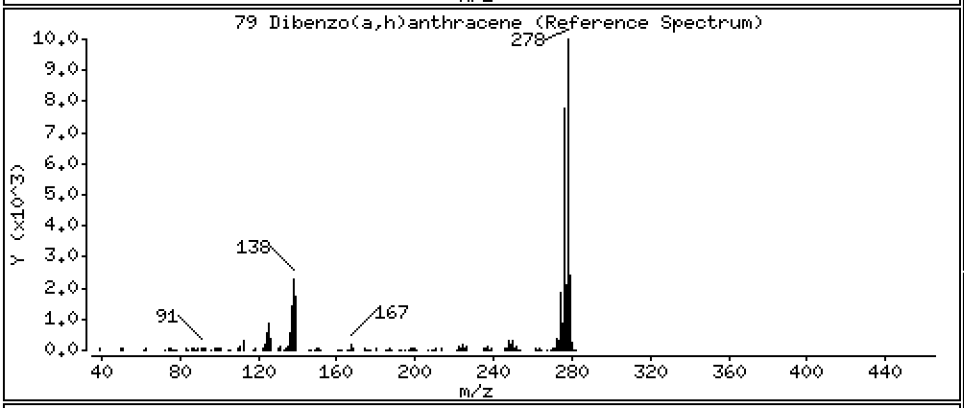
Column diameter: 0.25

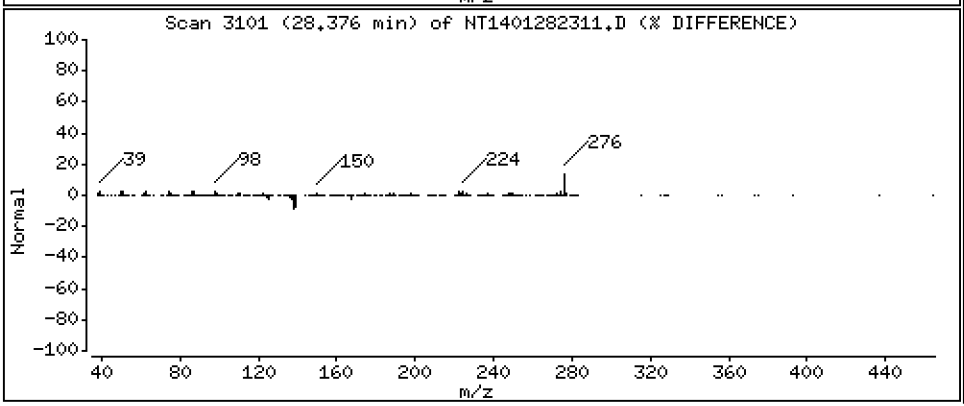
79 Dibenzo(a,h)anthracene

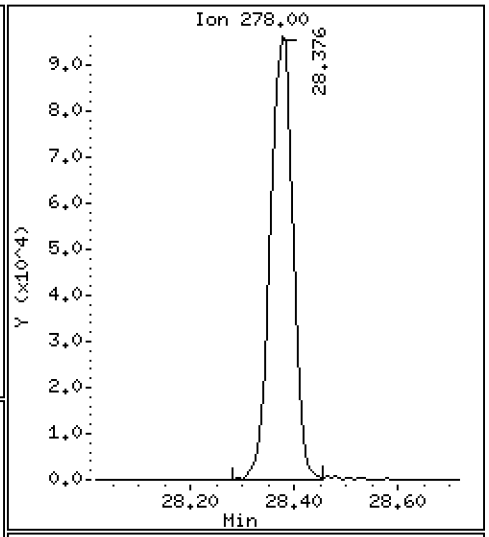
Concentration: 4.455 ug/mL

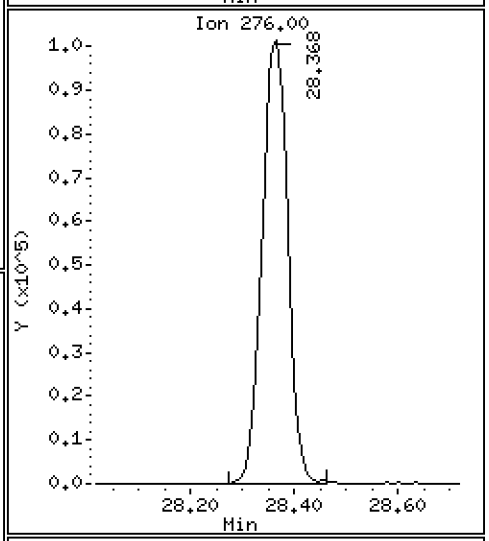


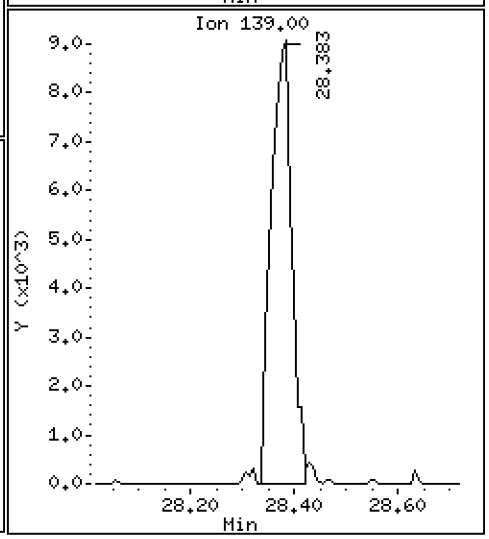












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

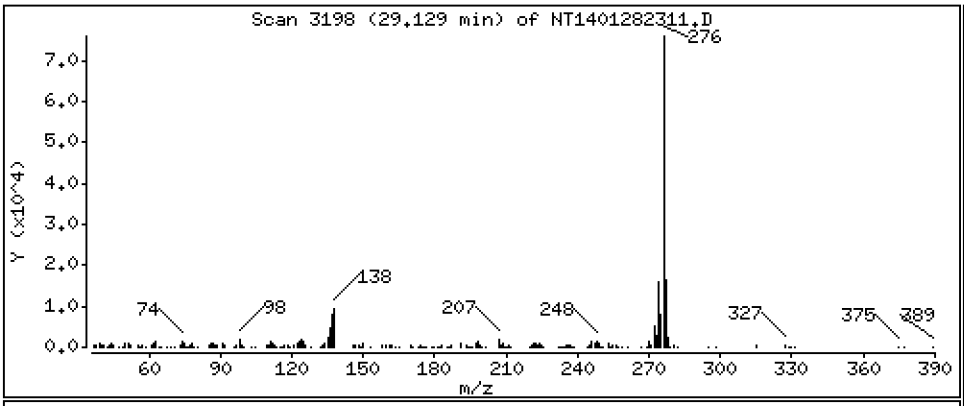
Operator: JGR

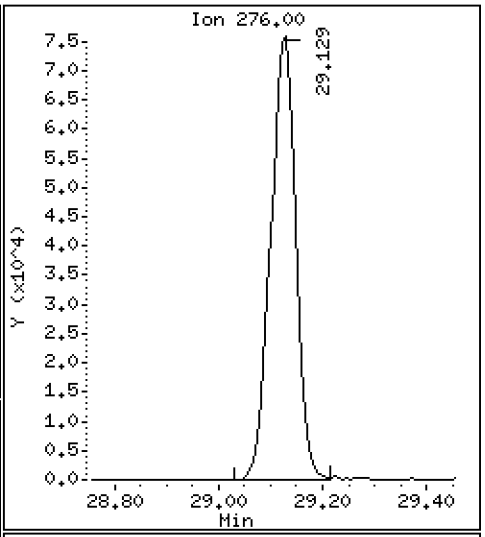
Column phase: ZB-5msi

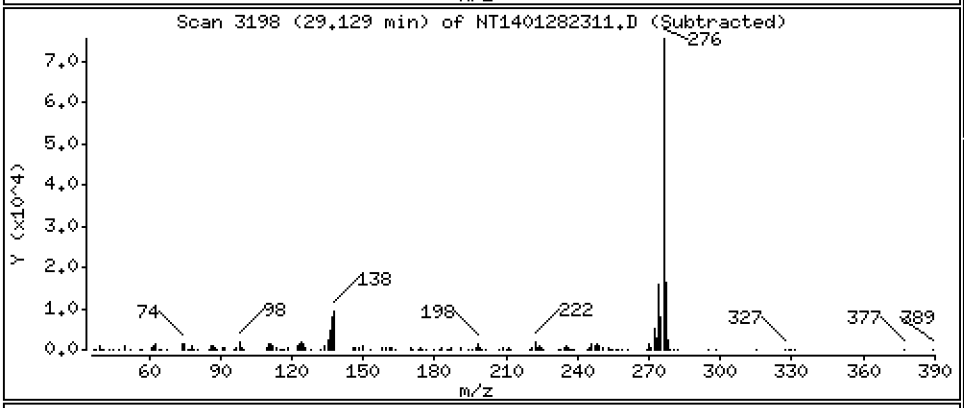
Column diameter: 0.25

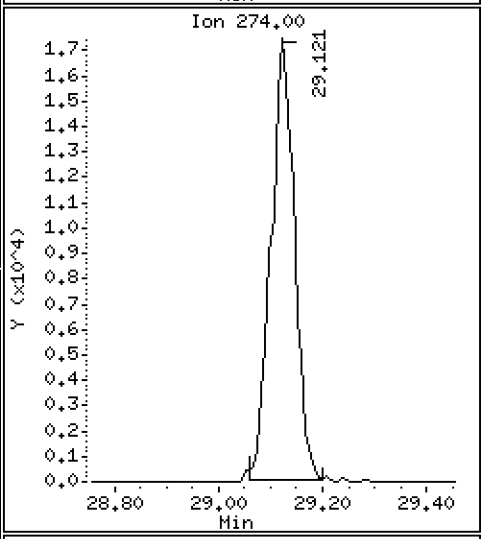
80 Benzo(g,h,i)perylene

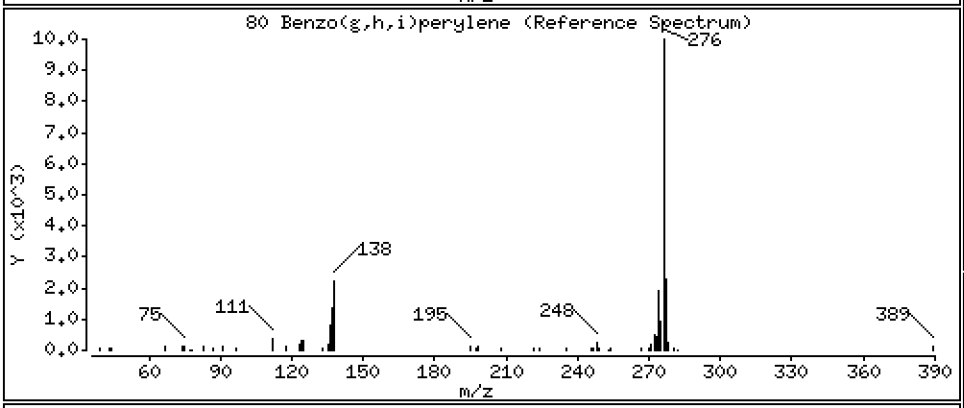
Concentration: 4.657 ug/mL

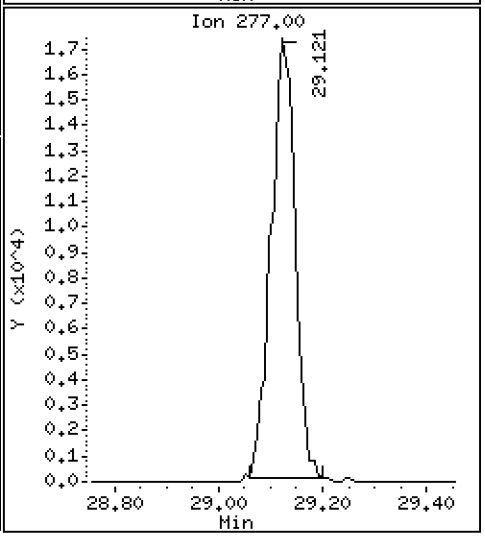


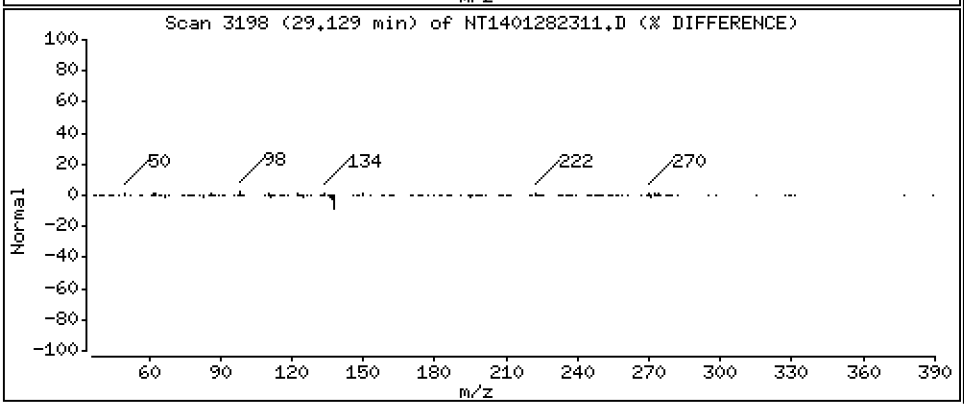












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

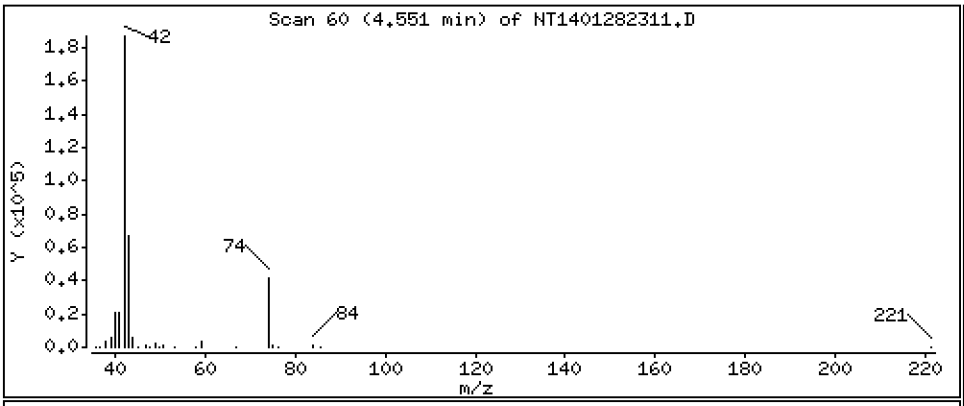
Operator: JGR

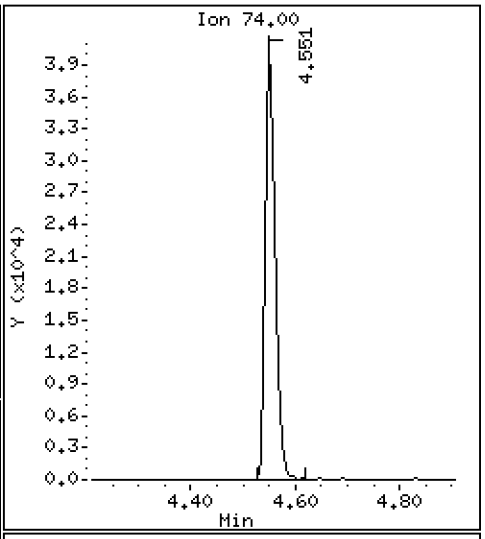
Column phase: ZB-5msi

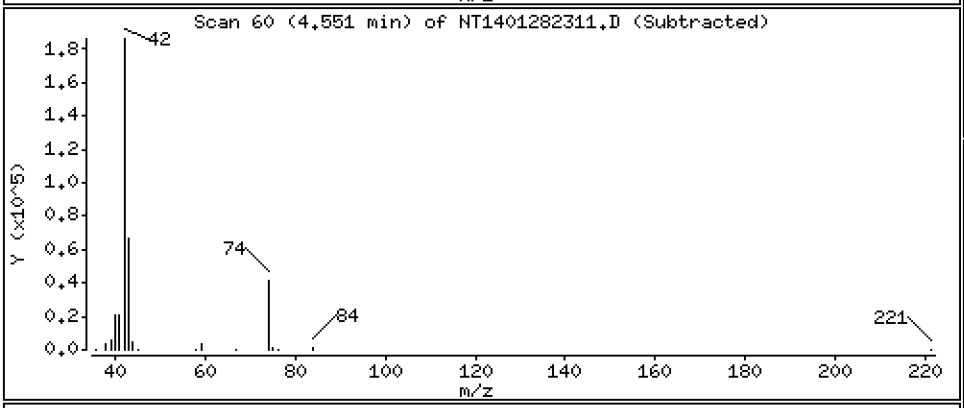
Column diameter: 0.25

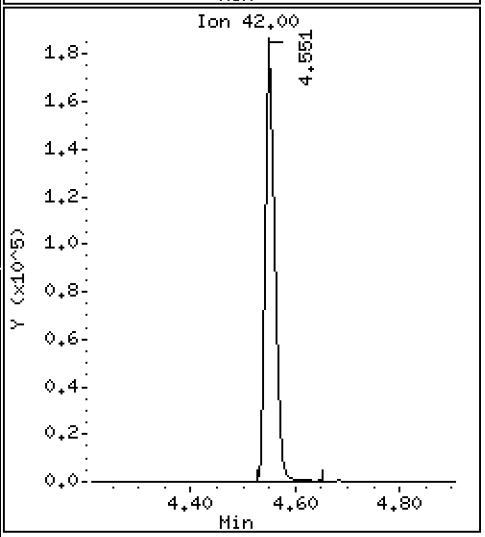
90 N-Nitrosodimethylamine

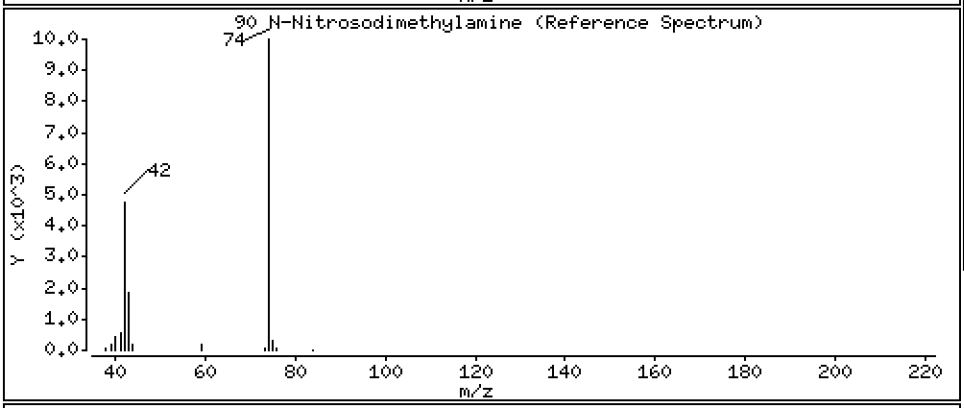
Concentration: 4.932 ug/mL

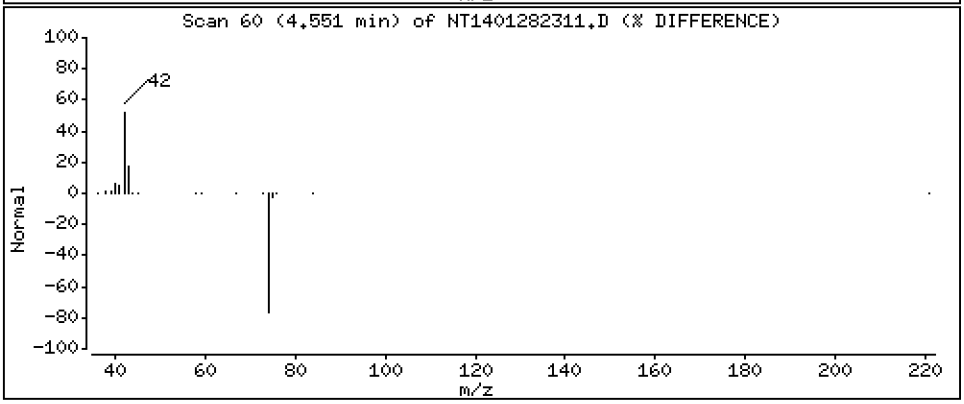












Date : 28-JAN-2023 21:28

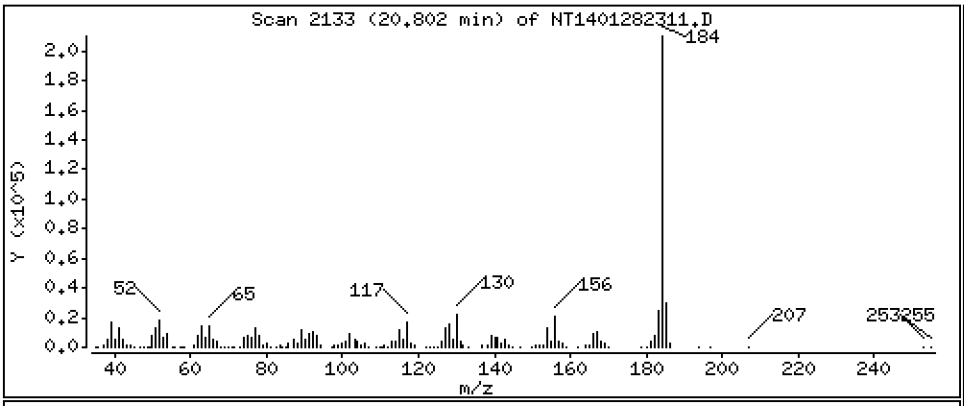
Client ID: Instrument: nt14.i

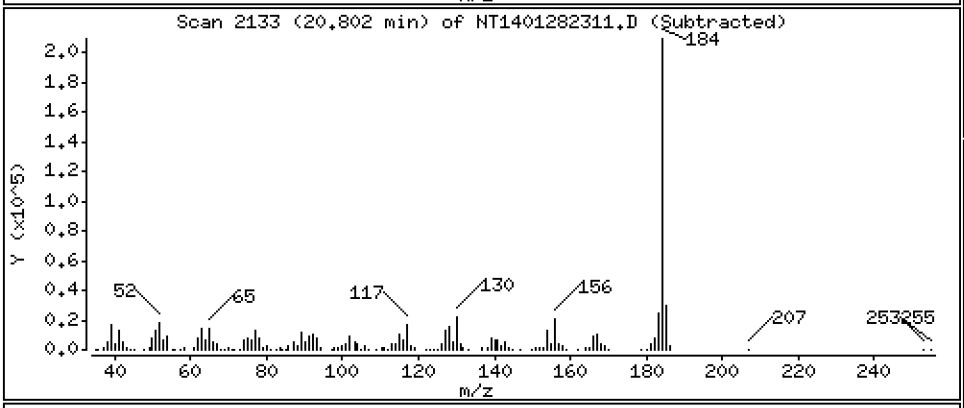
Sample Info: SLA0338-SCV1

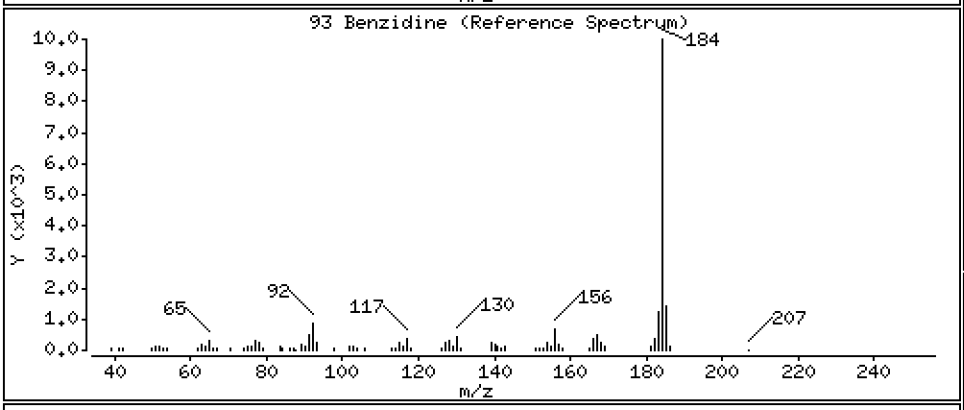
Operator: JGR

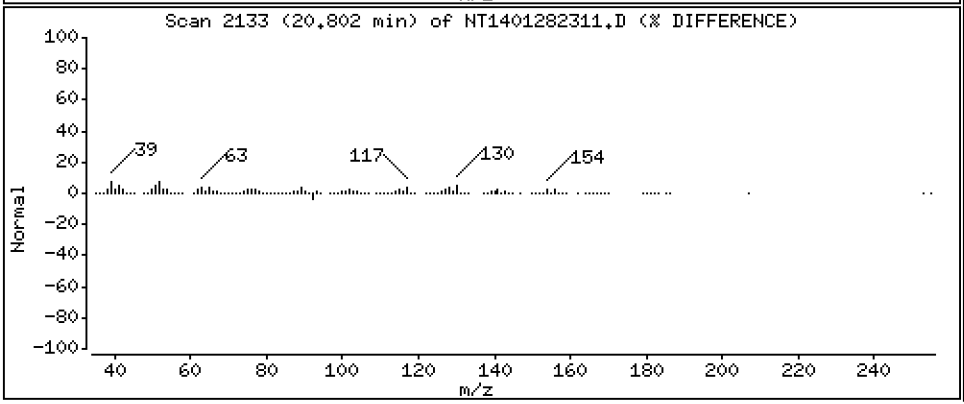
Column phase: ZB-5msi Column diameter: 0.25

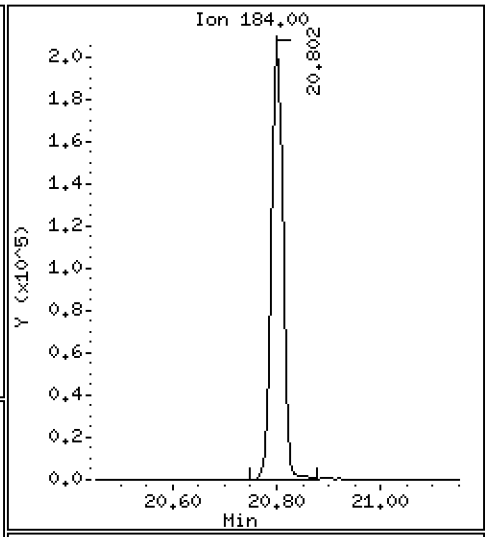
93 Benzidine Concentration: 8.135 ug/mL

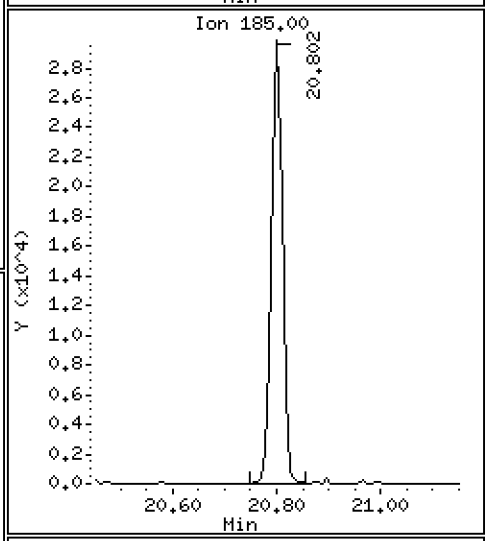


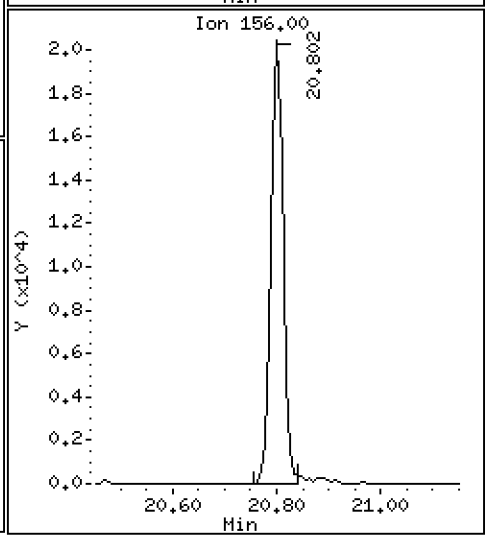












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

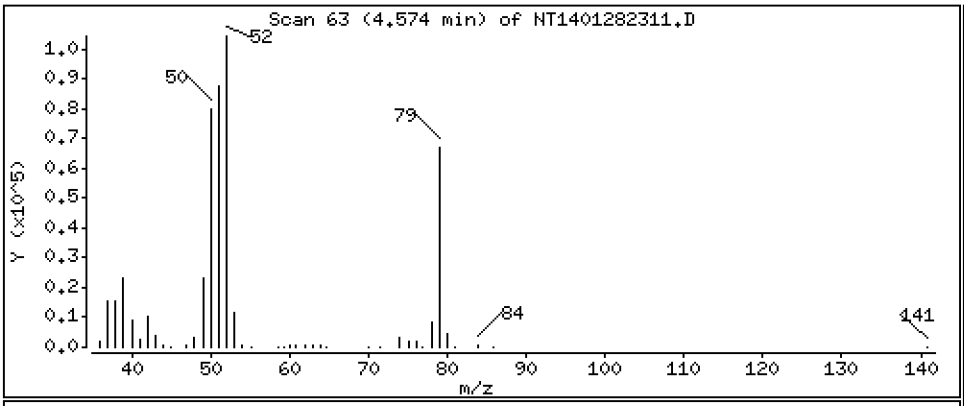
Operator: JGR

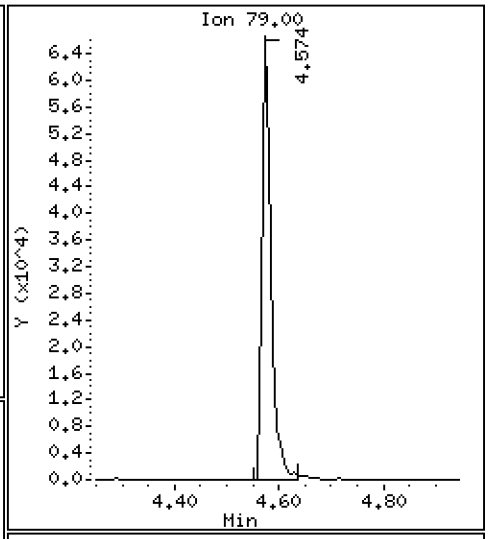
Column phase: ZB-5msi

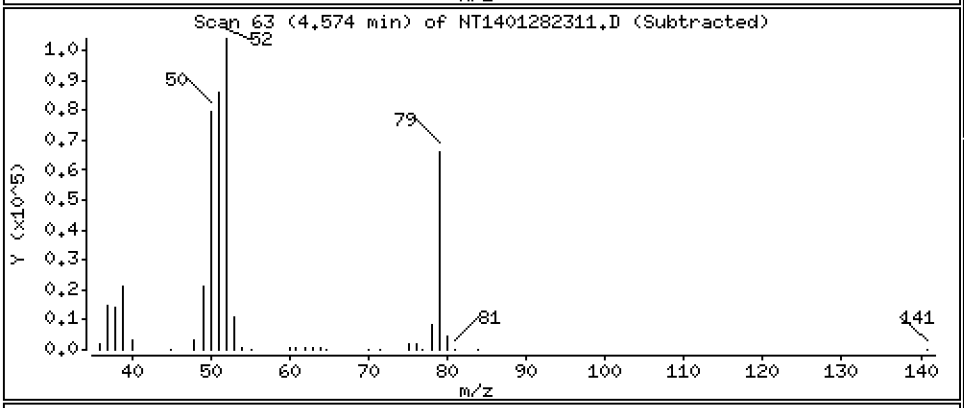
Column diameter: 0.25

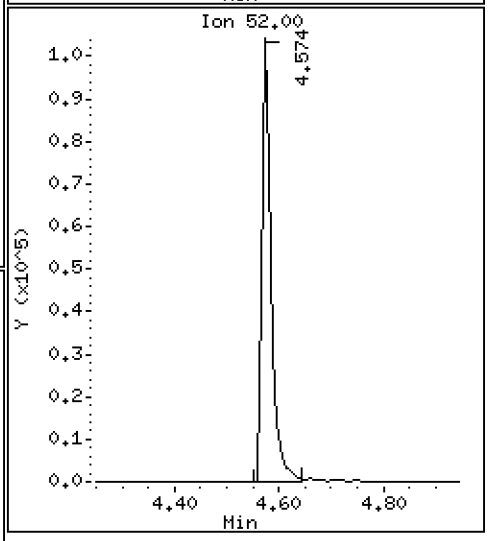
103 Pyridine

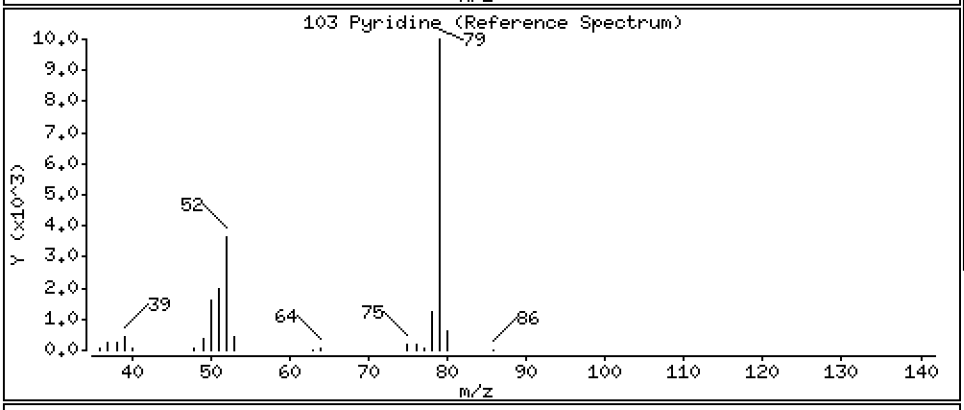
Concentration: 2.723 ug/mL

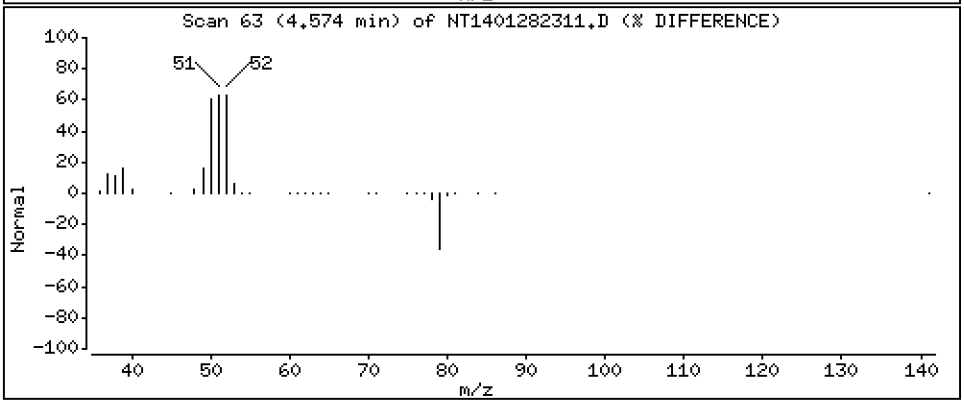












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

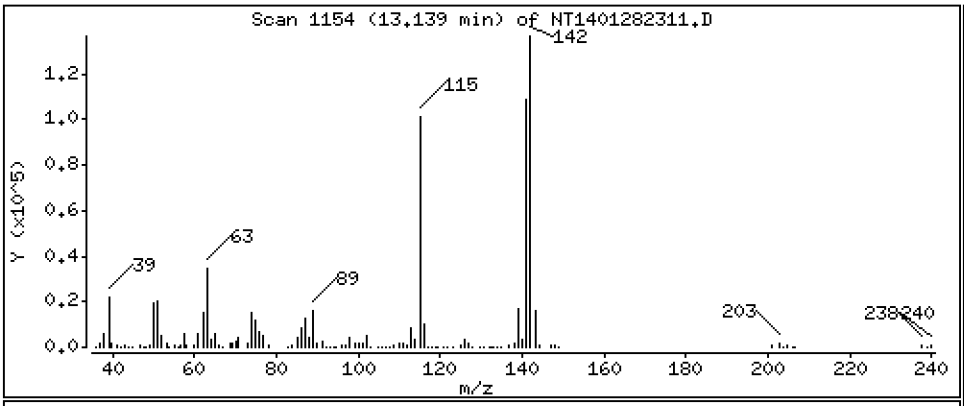
Operator: JGR

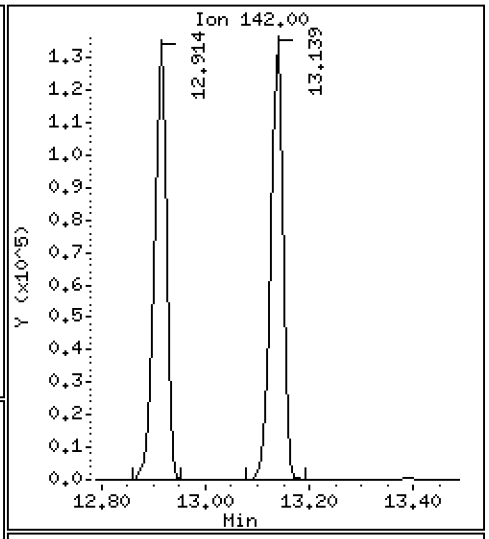
Column phase: ZB-5msi

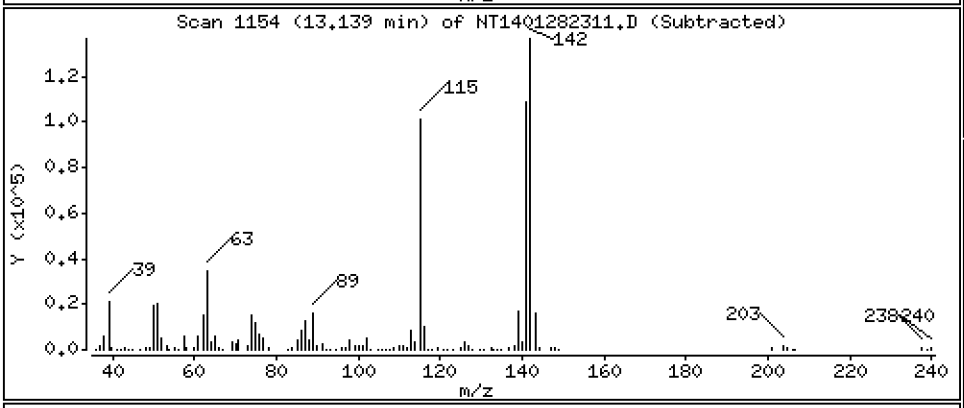
Column diameter: 0.25

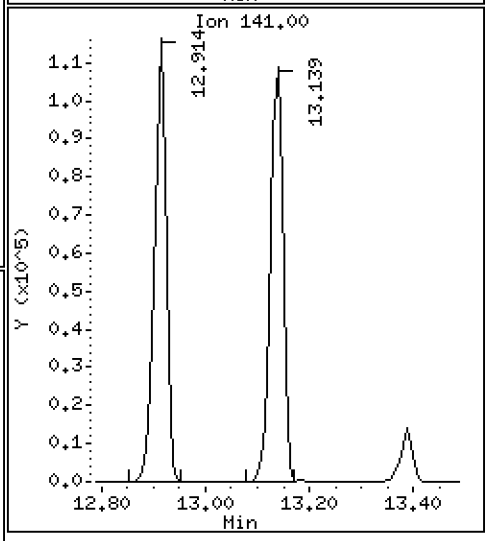
105 1-methylnaphthalene

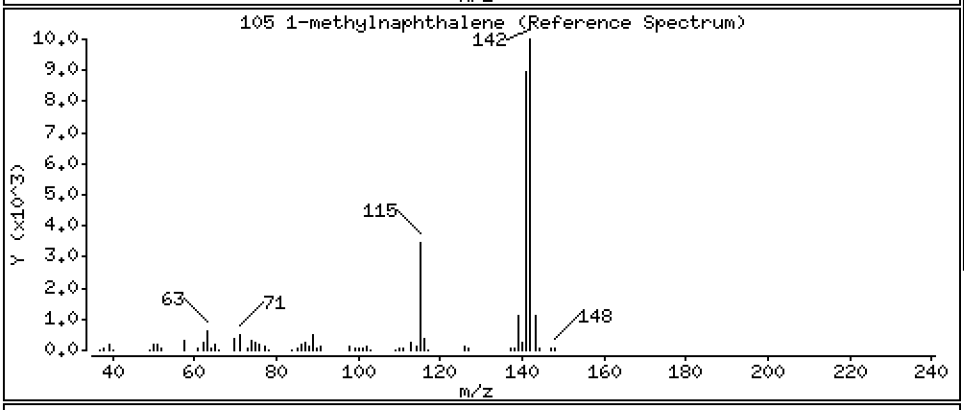
Concentration: 4.378 ug/mL

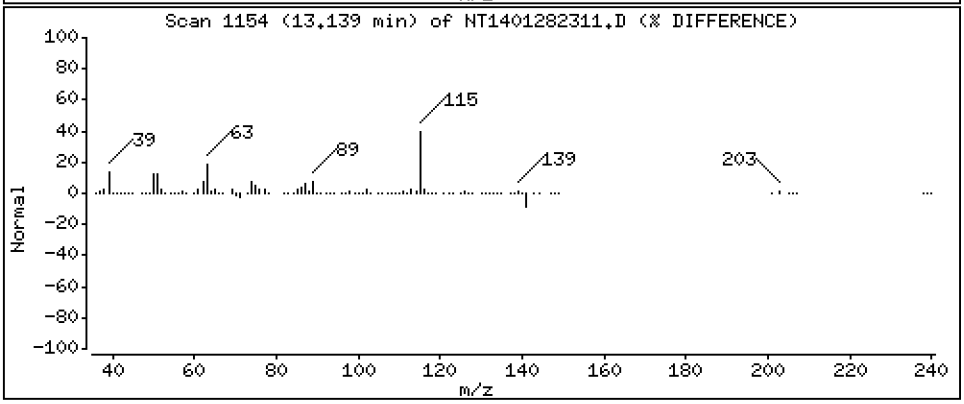












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

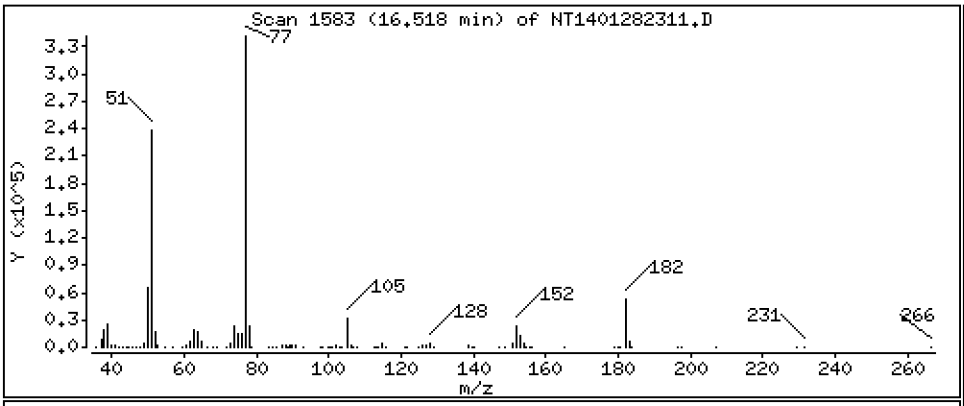
Operator: JGR

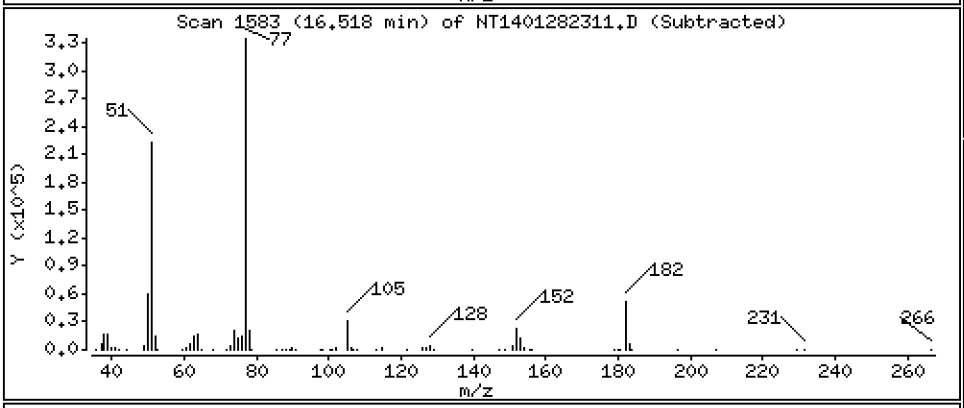
Column phase: ZB-5msi

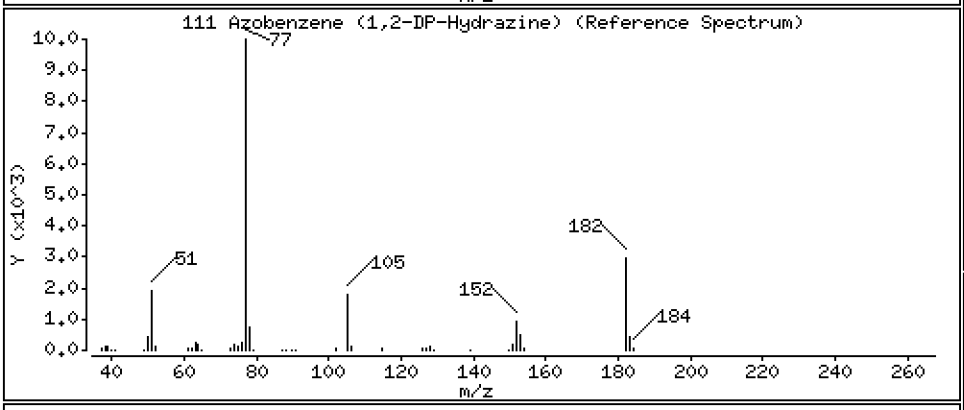
Column diameter: 0.25

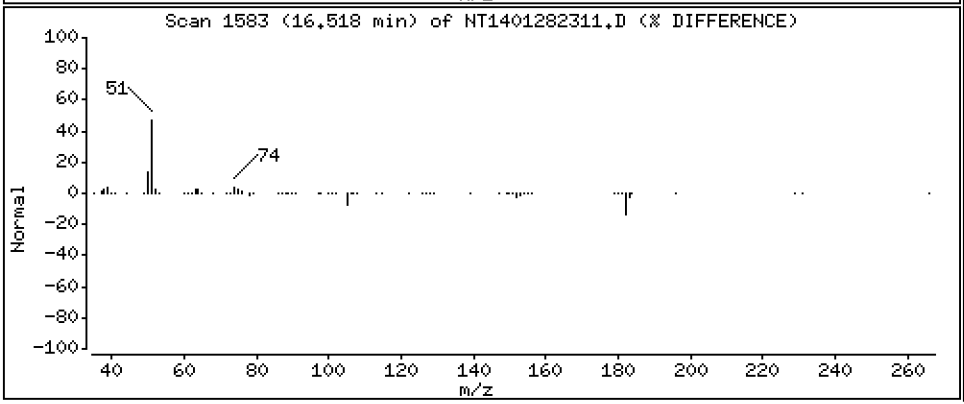
111 Azobenzene (1,2-DP-Hydrazine)

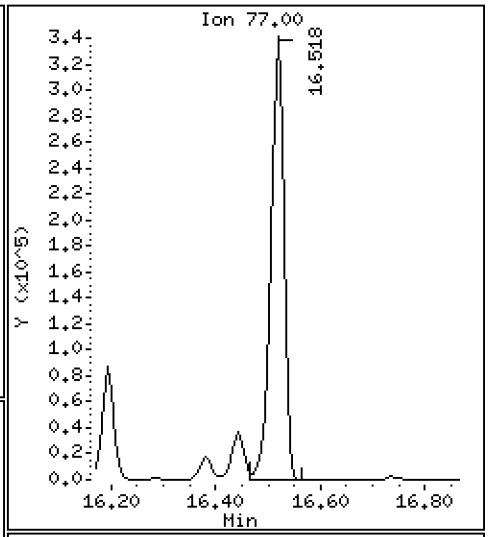
Concentration: 4.801 ug/mL

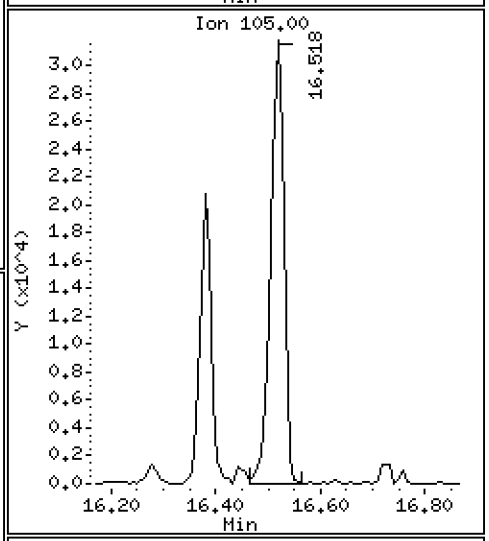


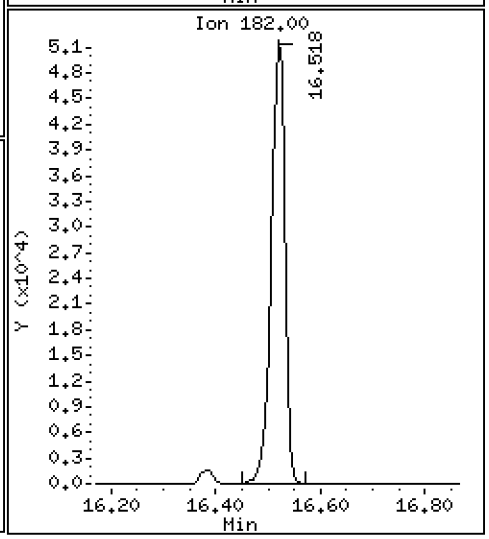












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

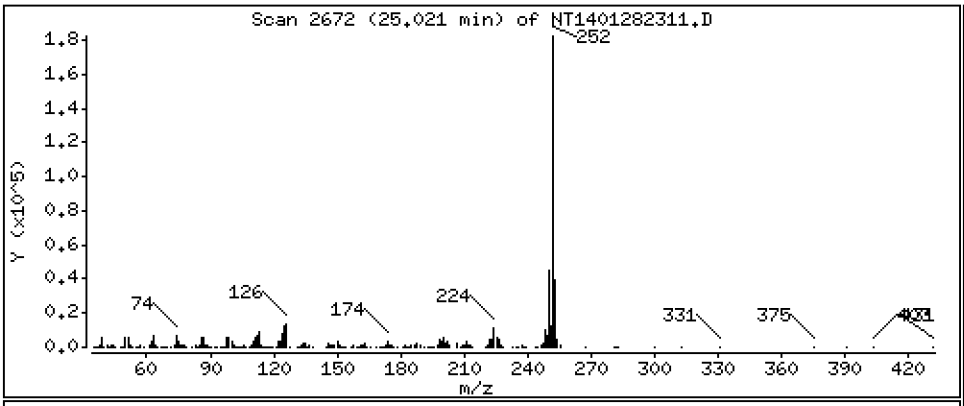
Operator: JGR

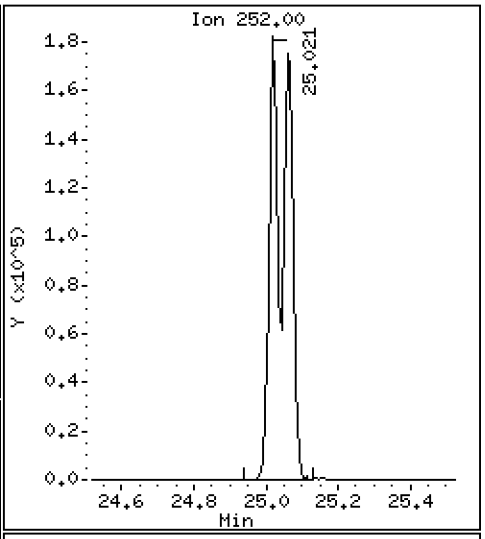
Column phase: ZB-5msi

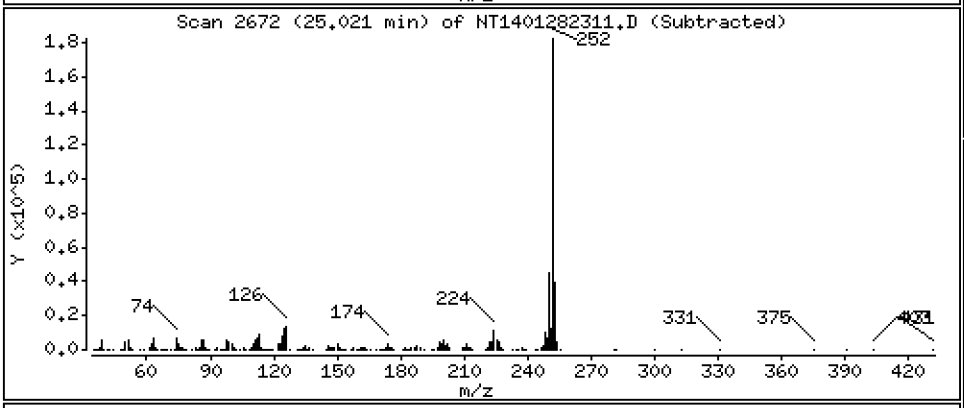
Column diameter: 0.25

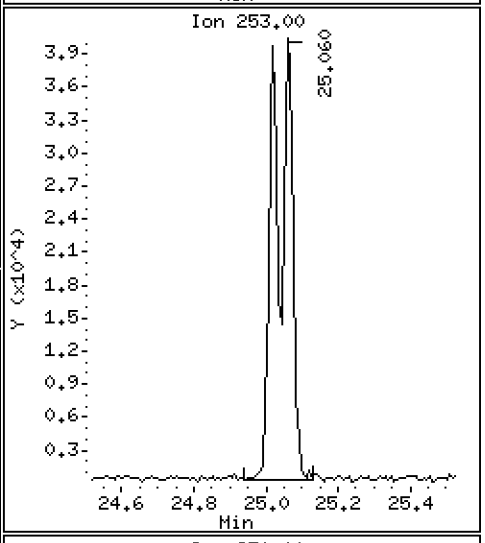
187 Total Benzofluoranthenes

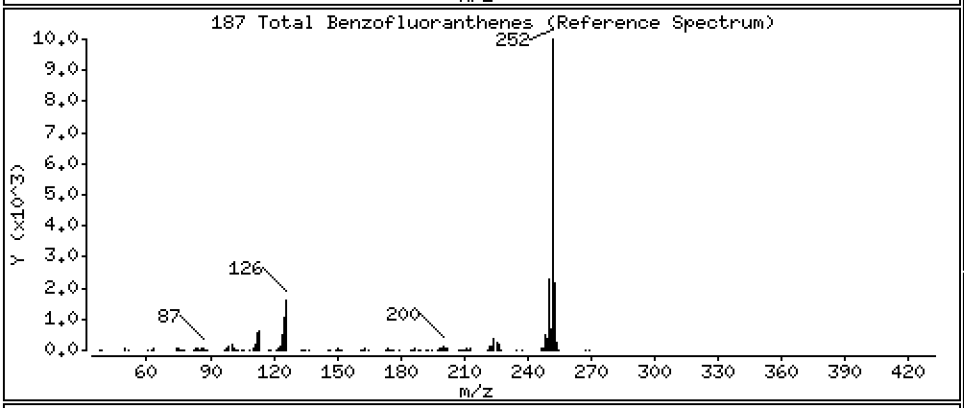
Concentration: 9.093 ug/mL

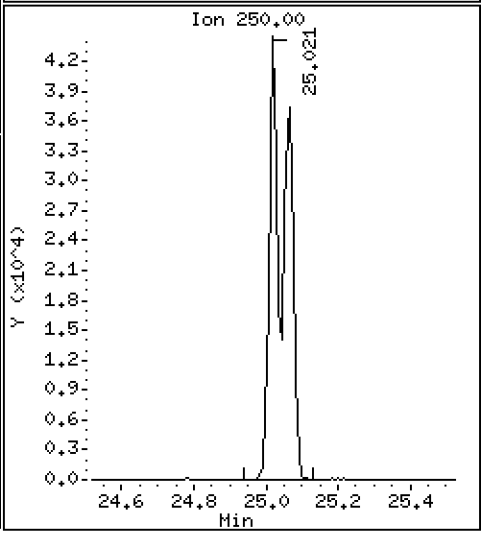


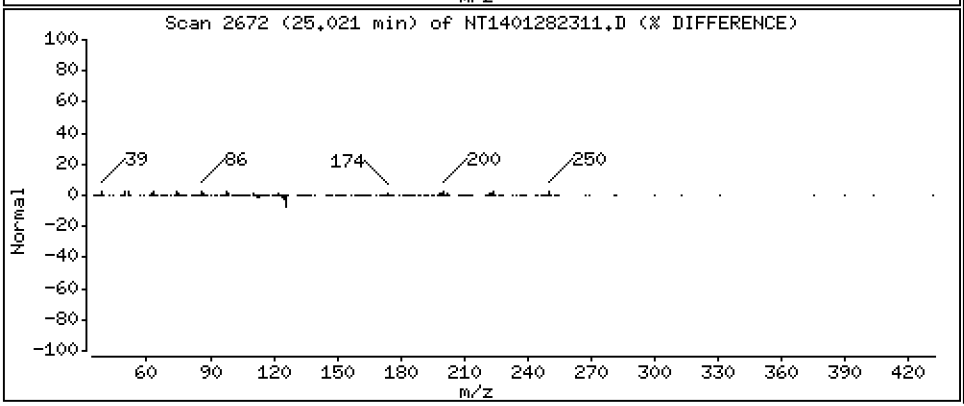












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

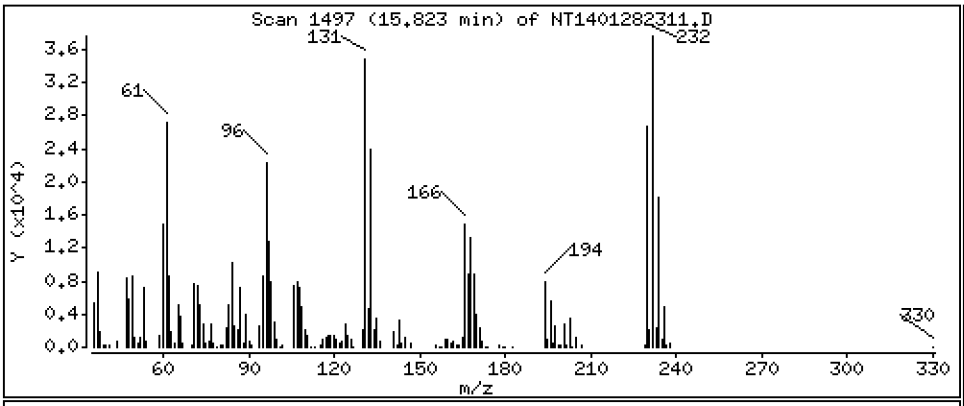
Operator: JGR

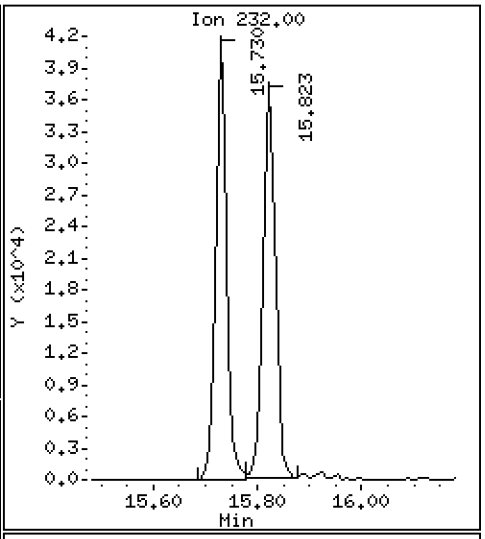
Column phase: ZB-5msi

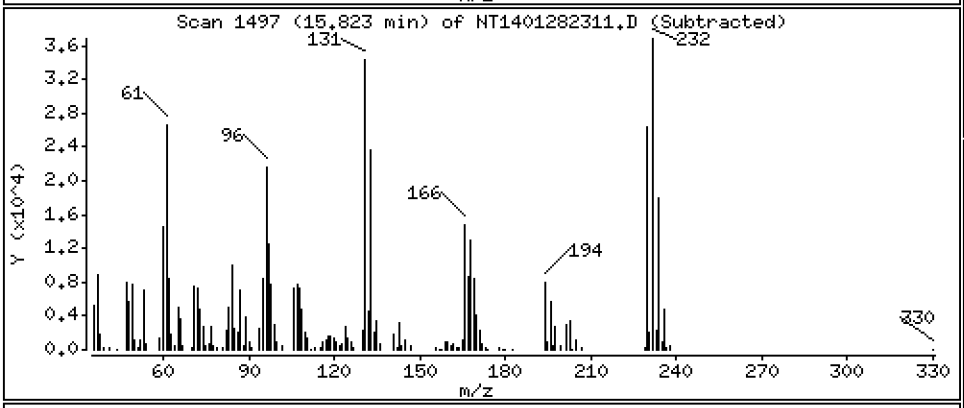
Column diameter: 0.25

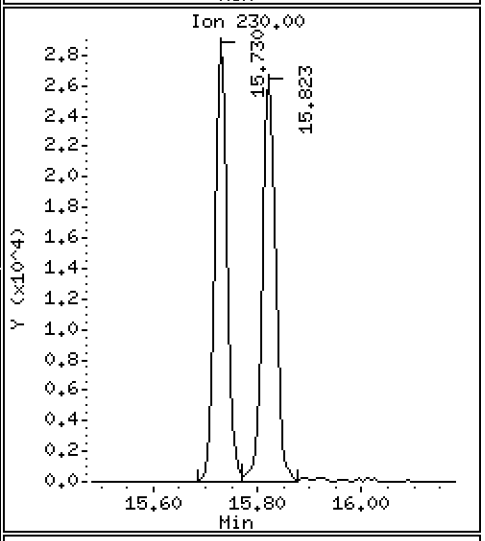
120 2,3,4,6-Tetrachlorophenol

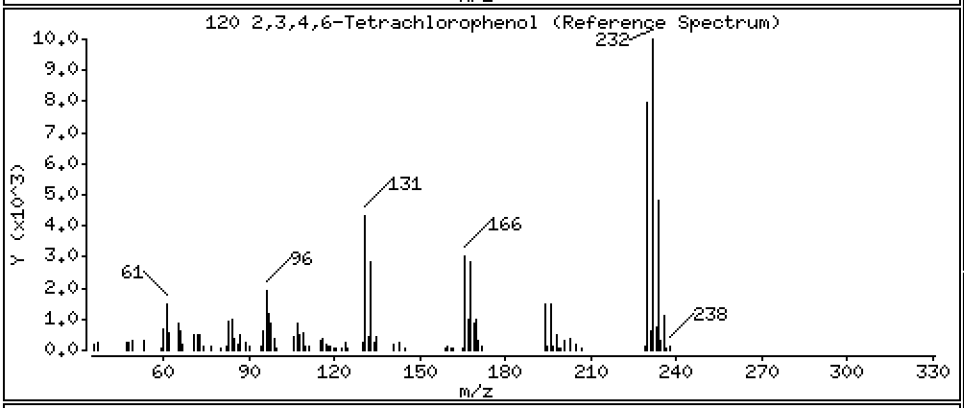
Concentration: 3.160 ug/mL

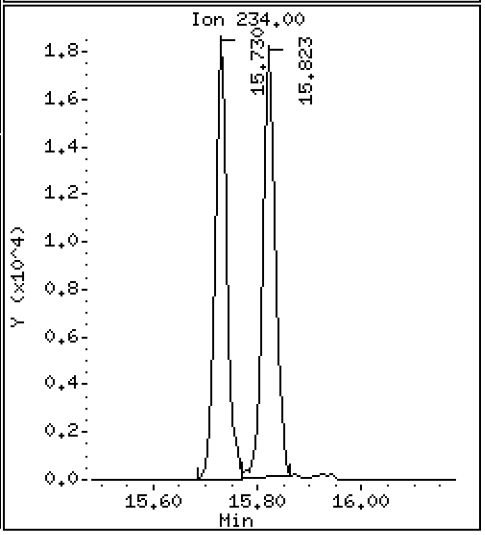


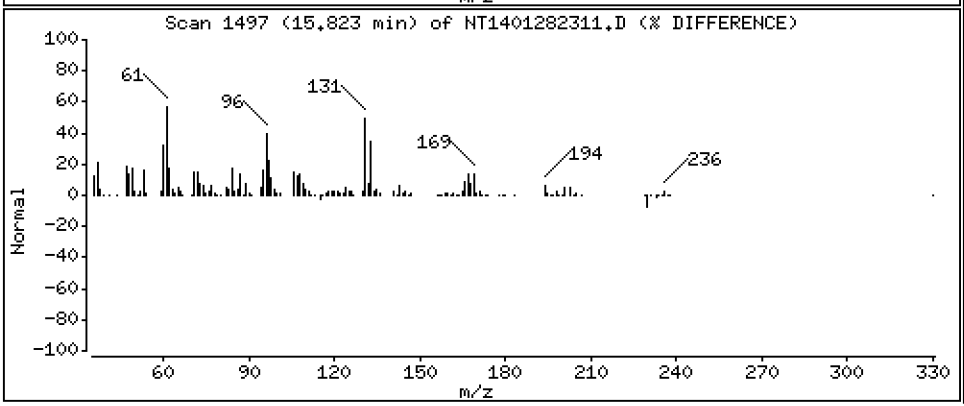












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D
Lab Smp Id: SLA0338-SCV1
Inj Date : 28-JAN-2023 21:28 MS Autotune Date: 17-MAY-2011 01:22
Operator : JGR Inst ID: nt14.i
Smp Info : SLA0338-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.736	6.744	(0.750)	142455	8.17640	8.176
$	2 Phenol-d5	99	8.328	8.328	(0.928)	176728	7.72018	7.720
	3 Phenol	94	8.351	8.351	(0.930)	107396	3.82486	3.825
$	5 2-Chlorophenol-d4	132	8.606	8.614	(0.959)	166820	7.53435	7.534
	4 Bis(2-Chloroethyl)ether	93	8.521	8.529	(0.949)	85917	5.32016	5.320
	6 2-Chlorophenol	128	8.637	8.637	(0.962)	96403	4.13501	4.135
	7 1,3-Dichlorobenzene	146	8.915	8.915	(0.993)	121707	4.67506	4.675
*	8 1,4-Dichlorobenzene-d4	152	8.977	8.978	(1.000)	64868	4.00000	
	9 1,4-Dichlorobenzene	146	9.009	9.009	(1.003)	122324	4.65035	4.650
$	10 1,2-Dichlorobenzene-d4	152	9.342	9.342	(1.041)	74985	4.77182	4.772
	12 1,2-Dichlorobenzene	146	9.366	9.366	(1.043)	112526	4.35068	4.351
	11 Benzyl alcohol	108	9.249	9.249	(1.030)	61126	4.41562	4.416
	14 2,2'-oxybis(1-Chloropropane)	121	9.560	9.560	(1.065)	36046	4.97722	4.977
	13 2-Methylphenol	108	9.474	9.474	(1.055)	71205	3.30269	3.303
	17 Hexachloroethane	117	9.963	9.963	(1.110)	71298	4.49319	4.493
	16 N-Nitroso-di-n-propylamine	70	9.816	9.808	(1.093)	90956	4.83477	4.835
	15 4-Methylphenol	108	9.746	9.746	(1.086)	83388	3.42678	3.427
$	18 Nitrobenzene-d5	82	10.072	10.072	(0.878)	179644	5.28207	5.282
	19 Nitrobenzene	77	10.111	10.111	(0.881)	162836	4.91275	4.913
	20 Isophorone	82	10.561	10.561	(0.920)	247148	6.59284	6.593
	21 2-Nitrophenol	139	10.739	10.747	(0.936)	52653	4.13380	4.134
	22 2,4-Dimethylphenol	107	10.793	10.794	(0.941)	101570	3.03442	3.034
	23 Bis(2-Chloroethoxy)methane	93	10.995	11.003	(0.958)	103282	5.45389	5.454
	24 Benzoic acid	105	10.949	10.887	(0.954)	134100	6.66881	6.669
	25 2,4-Dichlorophenol	162	11.197	11.197	(0.976)	82473	3.99695	3.997
	26 1,2,4-Trichlorobenzene	180	11.390	11.390	(0.993)	104913	4.47625	4.476
*	27 Naphthalene-d8	136	11.475	11.475	(1.000)	237703	4.00000	
	28 Naphthalene	128	11.514	11.514	(1.003)	287523	4.80744	4.807
	29 4-Chloroaniline	127	11.645	11.645	(1.015)	89314	3.54401	3.544
	30 Hexachlorobutadiene	225	11.884	11.892	(1.036)	86503	4.67468	4.675
	31 4-Chloro-3-methylphenol	107	12.604	12.604	(1.098)	110572	3.94303	3.943
	32 2-Methylnaphthalene	142	12.914	12.914	(1.125)	212414	4.35655	4.357
	33 Hexachlorocyclopentadiene	237	13.386	13.386	(0.887)	94894	4.63684	4.637
	34 2,4,6-Trichlorophenol	196	13.533	13.533	(0.896)	66467	3.71023	3.710

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	35	2,4,5-Trichlorophenol	196	13.602	13.610	(0.901)	71753	3.61565	3.616
$	36	2-Fluorobiphenyl	172	13.703	13.703	(0.908)	260445	5.01878	5.019
	37	2-Chloronaphthalene	162	13.912	13.912	(0.922)	203080	4.70365	4.704
	38	2-Nitroaniline	65	14.160	14.160	(0.938)	114202	4.50892	4.509
	39	Dimethylphthalate	163	14.608	14.601	(0.968)	272366	4.87524	4.875
	40	Acenaphthylene	152	14.779	14.779	(0.979)	317280	4.69456	4.695
	41	2,6-Dinitrotoluene	165	14.740	14.740	(0.976)	59026	4.60306	4.603
*	42	Acenaphthene-d10	164	15.096	15.096	(1.000)	145815	4.00000	
	43	3-Nitroaniline	138	15.019	15.011	(0.995)	55408	4.47552	4.476
	44	Acenaphthene	153	15.166	15.158	(1.005)	220685	4.82742	4.827
	45	2,4-Dinitrophenol	184	15.227	15.227	(1.009)	26546	2.10608	2.106
	46	Dibenzofuran	168	15.490	15.490	(1.026)	301624	4.55314	4.553
	47	4-Nitrophenol	109	15.328	15.328	(1.015)	93172	3.65684	3.657
	48	2,4-Dinitrotoluene	165	15.544	15.544	(1.030)	76743	4.31208	4.312
	50	Diethylphthalate	149	16.062	16.062	(1.064)	402237	4.95468	4.955
	49	Fluorene	166	16.201	16.202	(1.073)	405552	4.72437	4.724
	51	4-Chlorophenyl-phenylether	204	16.194	16.202	(1.073)	209803	4.48351	4.484
	52	4-Nitroaniline	138	16.279	16.271	(1.078)	66232	4.50523	4.505
	53	4,6-Dinitro-2-methylphenol	198	16.379	16.379	(0.903)	57690	3.42165	3.422
	54	N-Nitrosodiphenylamine	169	16.441	16.441	(0.907)	218170	4.52786	4.528
$	55	2,4,6-Tribromophenol	330	16.734	16.741	(1.108)	96224	7.86038	7.860
	56	4-Bromophenyl-phenylether	248	17.204	17.204	(0.949)	102800	4.57711	4.577
	57	Hexachlorobenzene	284	17.513	17.513	(0.966)	114130	4.45289	4.453
	58	Pentachlorophenol	266	17.869	17.869	(0.985)	48355	3.43887	3.439
*	59	Phenanthrene-d10	188	18.132	18.132	(1.000)	284750	4.00000	
	60	Phenanthrene	178	18.179	18.179	(1.003)	349868	4.55376	4.554
	61	Anthracene	178	18.271	18.279	(1.008)	298207	4.06199	4.062
	62	Carbazole	167	18.596	18.604	(1.026)	295557	4.38432	4.384
	63	Di-n-butylphthalate	149	19.409	19.409	(1.070)	517154	4.94804	4.948
	64	Fluoranthene	202	20.569	20.569	(0.887)	410997	4.75515	4.755
	65	Pyrene	202	20.995	20.995	(0.906)	403045	4.70186	4.702
$	66	Terphenyl-d14	244	21.281	21.289	(0.918)	360406	5.00371	5.004
	67	Butylbenzylphthalate	149	22.210	22.210	(0.958)	227643	4.84394	4.844
	68	Benzo(a)anthracene	228	23.155	23.155	(0.999)	363082	4.57076	4.571
*	69	Chrysene-d12	240	23.186	23.186	(1.000)	217792	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.116	23.108	(0.997)	296415	8.22577	8.226
	71	Chrysene	228	23.232	23.232	(1.002)	351735	4.46577	4.466
	72	bis(2-Ethylhexyl)phthalate	149	23.240	23.240	(0.960)	327626	4.82272	4.823
*	134	Di-n-octylphthalate-d4	153	24.215	24.215	(1.000)	398967	4.00000	
	73	Di-n-octylphthalate	149	24.223	24.231	(1.000)	487047	4.83491	4.835
	74	Benzo(b)fluoranthene	252	25.021	25.021	(0.971)	328122	4.73403	4.734
	75	Benzo(k)fluoranthene	252	25.059	25.059	(0.972)	311305	4.38699	4.387
	76	Benzo(a)pyrene	252	25.663	25.648	(0.996)	275946	4.65954	4.660
*	77	Perylene-d12	264	25.772	25.772	(1.000)	197244	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.367	28.367	(1.101)	346858	4.63593	4.636
	79	Dibenzo(a,h)anthracene	278	28.375	28.367	(1.101)	287062	4.45522	4.455
	80	Benzo(g,h,i)perylene	276	29.128	29.105	(1.130)	258055	4.65739	4.657
	90	N-Nitrosodimethylamine	74	4.550	4.558	(0.507)	51870	4.93189	4.932
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	20.801	20.801	(0.897)	299598	8.13487	8.135
	103	Pyridine	79	4.574	4.597	(0.509)	82576	2.72310	2.723
	105	1-methylnaphthalene	142	13.138	13.138	(1.145)	207286	4.37784	4.378
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.518	16.518	(1.094)	561058	4.80071	4.801
	187	Total Benzofluoranthenes	252	25.021	25.021	(0.971)	613592	9.09346	9.093

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	15.823	15.830	(1.048)	60195	3.16050	3.160

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282311.D
Lab Smp Id: SLA0338-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	64868	22.25
27 Naphthalene-d8	202004	101002	404008	237703	17.67
42 Acenaphthene-d10	124451	62226	248902	145815	17.17
59 Phenanthrene-d10	239860	119930	479720	284750	18.72
69 Chrysene-d12	191274	95637	382548	217792	13.86
134 Di-n-octylphthala	341876	170938	683752	398967	16.70
77 Perylene-d12	162367	81184	324734	197244	21.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.98	-0.09
27 Naphthalene-d8	11.48	10.98	11.98	11.48	0.00
42 Acenaphthene-d10	15.10	14.60	15.60	15.10	-0.05
59 Phenanthrene-d10	18.14	17.64	18.64	18.13	-0.04
69 Chrysene-d12	23.19	22.69	23.69	23.19	-0.03
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	-0.03
77 Perylene-d12	25.77	25.27	26.27	25.77	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282311.D

Lab ID: SLA0338-SCV1
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 21:28

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.949	0.0054	Benzoic acid

RRT check based on Ccal File: NT1401282308.D

On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT14	Calibration:	GA00072
Lab File ID:	NT1402032303.D	Calibration Date:	01/28/2023
Sequence:	SLB0035	Injection Date:	02/03/23
Lab Sample ID:	SLB0035-ICV1	Injection Time:	14:19
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Phenol	A	5.0000	4.1	1.7314190	1.4168820		-18.2	+/-20
4-Methylphenol	A	5.0000	4.1	1.5005370	1.2383330		-17.5	+/-20
Naphthalene	A	5.0000	4.7	1.0064310	0.9481986		-5.8	+/-20
2-Methylnaphthalene	A	5.0000	4.9	0.8204755	0.7962109		-3.0	+/-20
Acenaphthylene	A	5.0000	4.8	1.8539820	1.7666720		-4.7	+/-20
Dimethylphthalate	A	5.0000	5.0	1.5325510	1.5422620		0.6	+/-20
Acenaphthene	A	5.0000	4.9	1.2540530	1.2261640		-2.2	+/-20
Dibenzofuran	A	5.0000	4.9	1.8172410	1.7835990		-1.9	+/-20
Fluorene	A	5.0000	4.8	2.3310880	2.2755760		-3.5	+/-20
Phenanthrene	A	5.0000	4.8	1.0792710	1.0326980		-4.3	+/-20
Anthracene	A	5.0000	5.0	1.0312780	1.0262830		-0.5	+/-20
Fluoranthene	A	5.0000	5.6	1.6266230	1.8129640		12.8	+/-20
Pyrene	A	5.0000	5.6	1.6247260	1.7724950		11.3	+/-20
Butylbenzylphthalate	A	5.0000	5.0	0.8300818	0.8596810		-0.5	+/-20
Benzo(a)anthracene	A	5.0000	4.9	1.4589300	1.4243150		-2.4	+/-20
Chrysene	A	5.0000	4.8	1.5331530	1.4037270		-3.5	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	5.5	0.6849635	0.7512670		9.4	+/-20
Benzofluoranthenes, Total	A	10.000	9.7	1.3683800	1.3315710		-2.7	+/-20
Benzo(a)pyrene	A	5.0000	4.8	1.2009850	1.1618570		-3.3	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	4.4	1.5172980	1.3357430		-12.0	+/-20
Dibenzo(a,h)anthracene	A	5.0000	4.4	1.3066590	1.1598350		-11.2	+/-20
Benzo(g,h,i)perylene	A	5.0000	4.4	1.1236370	0.9977357		-11.2	+/-20
2-Fluorophenol	A	7.5000	6.13	1.0743480	0.8785062		-18.2	+/-20
Phenol-d5	A	7.5000	7.03	1.4115870	1.3226330		-6.3	+/-20
2-Chlorophenol-d4	A	7.5000	7.39	1.3653120	1.3456590		-1.4	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.92	0.9689903	0.9531980		-1.6	+/-20
Nitrobenzene-d5	A	5.0000	4.59	0.5723133	0.5254305		-8.2	+/-20
2-Fluorobiphenyl	A	5.0000	5.06	1.4235590	1.4395350		1.1	+/-20
2,4,6-Tribromophenol	A	7.5000	7.28	0.3434165	0.3243458		-3.0	+/-20
p-Terphenyl-d14	A	5.0000	5.59	1.3753550	1.4914100		11.8	+/-20

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

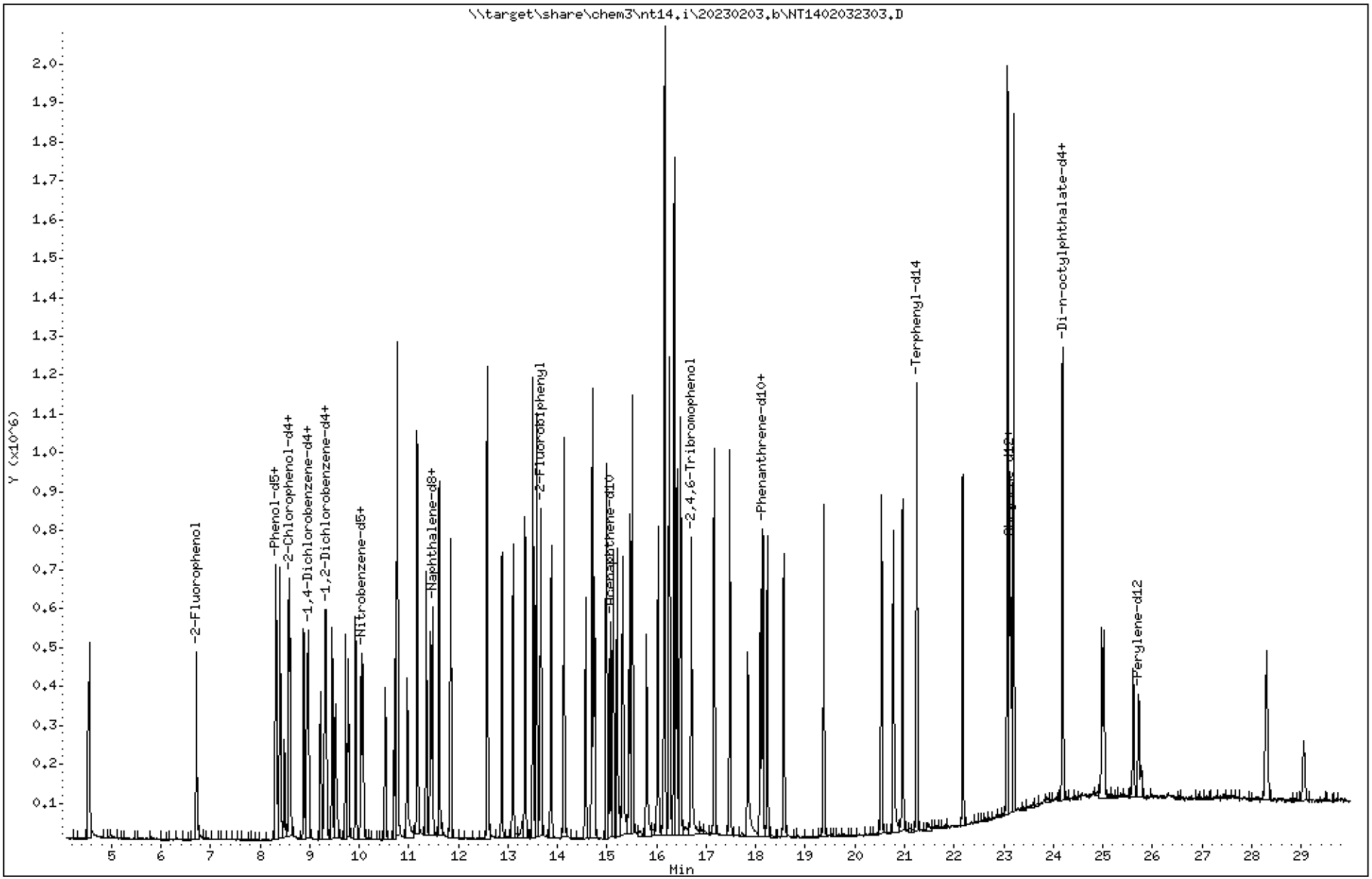
Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT14	Calibration:	GA00072
Lab File ID:	NT1402032303.D	Calibration Date:	01/28/2023
Sequence:	SLB0035	Injection Date:	02/03/23
Lab Sample ID:	SLB0035-ICV1	Injection Time:	14:19
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
1,4-Dichlorobenzene-d4	A	4.0000	4.0	14116.9600	1.0000		0.0	
Naphthalene-d8	A	4.0000	4.0	53170.1100	1.0000		0.0	
Acenaphthene-d10	A	4.0000	4.0	32987.5400	1.0000		0.0	
Phenanthrene-d10	A	4.0000	4.0	63745.9600	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	48569.0700	1.0000		0.0	
Di-n-Octylphthalate-d4	A	4.0000	4.0	87454.8600	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	42416.0000	1.0000		0.0	

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032303.D
Date : 03-FEB-2023 14:19
Client ID:
Sample Info: SLB0035-ICV1

Instrument: nt14.i
Operator: DSD
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230203.b\NT1402032303.D
Lab Smp Id: SLB0035-ICV1
Inj Date : 03-FEB-2023 14:19 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : SLB0035-ICV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.720	6.720	(0.751)	106979	7.50000	6.133
$	2 Phenol-d5	99	8.312	8.312	(0.929)	161062	7.50000	7.027
	3 Phenol	94	8.336	8.336	(0.932)	115026	5.00000	4.092
$	5 2-Chlorophenol-d4	132	8.583	8.583	(0.959)	163866	7.50000	7.392
	4 Bis(2-Chloroethyl)ether	93	8.490	8.490	(0.949)	78249	5.00000	4.840
	6 2-Chlorophenol	128	8.606	8.606	(0.962)	105312	5.00000	4.512
	7 1,3-Dichlorobenzene	146	8.884	8.884	(0.993)	124629	5.00000	4.782
*	8 1,4-Dichlorobenzene-d4	152	8.946	8.946	(1.000)	64946	4.00000	
	9 1,4-Dichlorobenzene	146	8.977	8.977	(1.003)	129351	5.00000	4.912
$	10 1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.040)	77383	5.00000	4.919
	12 1,2-Dichlorobenzene	146	9.334	9.334	(1.043)	126954	5.00000	4.903
	11 Benzyl alcohol	108	9.218	9.218	(1.030)	57442	5.00000	4.145
	14 2,2'-oxybis(1-Chloropropane)	121	9.521	9.521	(1.064)	31980	5.00000	4.410(M)
	13 2-Methylphenol	108	9.451	9.451	(1.056)	96522	5.00000	4.472
	17 Hexachloroethane	117	9.924	9.924	(1.109)	77966	5.00000	4.908
	16 N-Nitroso-di-n-propylamine	70	9.777	9.777	(1.093)	86986	5.00000	4.618
	15 4-Methylphenol	108	9.722	9.722	(1.087)	100531	5.00000	4.126
$	18 Nitrobenzene-d5	82	10.041	10.041	(0.878)	172642	5.00000	4.590
	19 Nitrobenzene	77	10.072	10.072	(0.881)	155826	5.00000	4.251
	20 Isophorone	82	10.530	10.530	(0.921)	175461	5.00000	4.233
	21 2-Nitrophenol	139	10.708	10.708	(0.936)	59250	5.00000	4.205
	22 2,4-Dimethylphenol	107	10.770	10.770	(0.942)	318137	10.0000	8.595
	23 Bis(2-Chloroethoxy)methane	93	10.964	10.964	(0.959)	90773	5.00000	4.335
	24 Benzoic acid	105	10.972	10.972	(0.959)	66984	20.0000	3.032
	25 2,4-Dichlorophenol	162	11.165	11.165	(0.976)	217769	10.0000	9.269
	26 1,2,4-Trichlorobenzene	180	11.351	11.351	(0.993)	147416	5.00000	5.688
*	27 Naphthalene-d8	136	11.436	11.436	(1.000)	262858	4.00000	
	28 Naphthalene	128	11.482	11.482	(1.004)	311552	5.00000	4.711
	29 4-Chloroaniline	127	11.614	11.614	(1.016)	257457	10.0000	8.991
	30 Hexachlorobutadiene	225	11.845	11.845	(1.036)	123077	5.00000	6.015
	31 4-Chloro-3-methylphenol	107	12.581	12.581	(1.100)	249711	10.0000	7.890
	32 2-Methylnaphthalene	142	12.882	12.882	(1.126)	261613	5.00000	4.852
	33 Hexachlorocyclopentadiene	237	13.347	13.347	(0.886)	154415	10.0000	6.498

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.502	13.502	(0.897)	180235	10.0000	8.509
35	2,4,5-Trichlorophenol	196	13.579	13.579	(0.902)	171404	10.0000	7.347
$ 36	2-Fluorobiphenyl	172	13.664	13.664	(0.907)	301480	5.00000	5.056
37	2-Chloronaphthalene	162	13.873	13.873	(0.921)	250116	5.00000	5.042
38	2-Nitroaniline	65	14.128	14.128	(0.938)	250534	10.0000	8.609
39	Dimethylphthalate	163	14.570	14.570	(0.968)	322994	5.00000	5.032
40	Acenaphthylene	152	14.748	14.748	(0.979)	369992	5.00000	4.765
41	2,6-Dinitrotoluene	165	14.701	14.701	(0.976)	148818	10.0000	10.10
* 42	Acenaphthene-d10	164	15.057	15.057	(1.000)	167543	4.00000	
43	3-Nitroaniline	138	14.988	14.988	(0.995)	135995	10.0000	9.560
44	Acenaphthene	153	15.127	15.127	(1.005)	256794	5.00000	4.889
45	2,4-Dinitrophenol	184	15.204	15.204	(1.010)	95819	20.0000	6.531
46	Dibenzofuran	168	15.451	15.451	(1.026)	373537	5.00000	4.907
47	4-Nitrophenol	109	15.320	15.320	(1.017)	182366	10.0000	6.177
48	2,4-Dinitrotoluene	165	15.513	15.513	(1.030)	214315	10.0000	10.48
50	Diethylphthalate	149	16.031	16.031	(1.065)	456768	5.00000	4.897
49	Fluorene	166	16.163	16.163	(1.073)	476571	5.00000	4.826
51	4-Chlorophenyl-phenylether	204	16.163	16.163	(1.073)	248795	5.00000	4.627
52	4-Nitroaniline	138	16.255	16.255	(1.080)	174887	10.0000	10.35
53	4,6-Dinitro-2-methylphenol	198	16.355	16.355	(0.904)	272078	20.0000	13.11
54	N-Nitrosodiphenylamine	169	16.409	16.409	(0.907)	272535	5.00000	4.723
$ 55	2,4,6-Tribromophenol	330	16.702	16.702	(1.109)	101891	7.50000	7.275
56	4-Bromophenyl-phenylether	248	17.157	17.157	(0.948)	129395	5.00000	4.810
57	Hexachlorobenzene	284	17.474	17.474	(0.966)	147533	5.00000	4.806
58	Pentachlorophenol	266	17.838	17.838	(0.986)	63139	10.0000	3.742
* 59	Phenanthrene-d10	188	18.093	18.093	(1.000)	341039	4.00000	
60	Phenanthrene	178	18.147	18.147	(1.003)	440238	5.00000	4.784
61	Anthracene	178	18.232	18.232	(1.008)	437503	5.00000	4.976
62	Carbazole	167	18.565	18.565	(1.026)	398493	5.00000	4.936
63	Di-n-butylphthalate	149	19.377	19.377	(1.071)	601066	5.00000	4.802
64	Fluoranthene	202	20.538	20.538	(0.887)	504754	5.00000	5.641
65	Pyrene	202	20.963	20.963	(0.905)	493487	5.00000	5.564
$ 66	Terphenyl-d14	244	21.250	21.250	(0.918)	415229	5.00000	5.592
67	Butylbenzylphthalate	149	22.179	22.179	(0.958)	239347	5.00000	4.973
68	Benzo(a)anthracene	228	23.123	23.123	(0.999)	396549	5.00000	4.881
* 69	Chrysene-d12	240	23.154	23.154	(1.000)	222731	4.00000	
70	3,3'-Dichlorobenzidine	252	23.085	23.085	(0.997)	451173	15.0000	12.02
71	Chrysene	228	23.201	23.201	(1.002)	390817	5.00000	4.826
72	bis(2-Ethylhexyl)phthalate	149	23.201	23.201	(0.959)	313114	5.00000	5.469
* 134	Di-n-octylphthalate-d4	153	24.184	24.184	(1.000)	333425	4.00000	
73	Di-n-octylphthalate	149	24.192	24.192	(1.000)	383016	5.00000	4.550
74	Benzo(b)fluoranthene	252	24.981	24.981	(0.971)	276579	5.00000	5.154
75	Benzo(k)fluoranthene	252	25.020	25.020	(0.973)	257659	5.00000	4.690
76	Benzo(a)pyrene	252	25.616	25.616	(0.996)	221800	5.00000	4.837
* 77	Perylene-d12	264	25.725	25.725	(1.000)	152721	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.305	28.305	(1.100)	254995	5.00000	4.402
79	Dibenzo(a,h)anthracene	278	28.305	28.305	(1.100)	221414	5.00000	4.438
80	Benzo(g,h,i)perylene	276	29.058	29.058	(1.130)	190469	5.00000	4.440
90	N-Nitrosodimethylamine	74	4.535	4.535	(0.507)	50581	10.0000	4.804
91	Aniline	93	8.397	8.397	(0.939)	197833	10.0000	8.293
93	Benzidine	184	20.770	20.770	(0.897)	376533	10.0000	9.997
103	Pyridine	79	4.550	4.550	(0.509)	62188	5.00000	2.048
105	1-methylnaphthalene	142	13.099	13.099	(1.145)	248046	5.00000	4.737
111	Azobenzene (1,2-DP-Hydrazine)	77	16.479	16.479	(1.094)	590353	5.00000	4.396

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	24.981	24.981	(0.971)	508397	10.0000	9.731
120 2,3,4,6-Tetrachlorophenol	232	15.791	15.791	(1.049)	95523	5.00000	4.326

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032303.D
Lab Smp Id: SLB0035-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 02-FEB-2023
Calibration Time: 14:51
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	64946	0.00
27 Naphthalene-d8	262858	131429	525716	262858	0.00
42 Acenaphthene-d10	167543	83772	335086	167543	0.00
59 Phenanthrene-d10	341039	170520	682078	341039	0.00
69 Chrysene-d12	222731	111366	445462	222731	0.00
134 Di-n-octylphthala	333425	166713	666850	333425	0.00
77 Perylene-d12	152721	76361	305442	152721	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.95	0.00
27 Naphthalene-d8	11.44	10.94	11.94	11.44	0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.09	0.00
69 Chrysene-d12	23.15	22.65	23.65	23.15	0.00
134 Di-n-octylphthala	24.18	23.68	24.68	24.18	0.00
77 Perylene-d12	25.73	25.23	26.23	25.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032303.D

Lab ID: SLB0035-ICV1
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 14:19

RT	CO-ELUTION COMPOUNDS
28.305	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
28.305	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

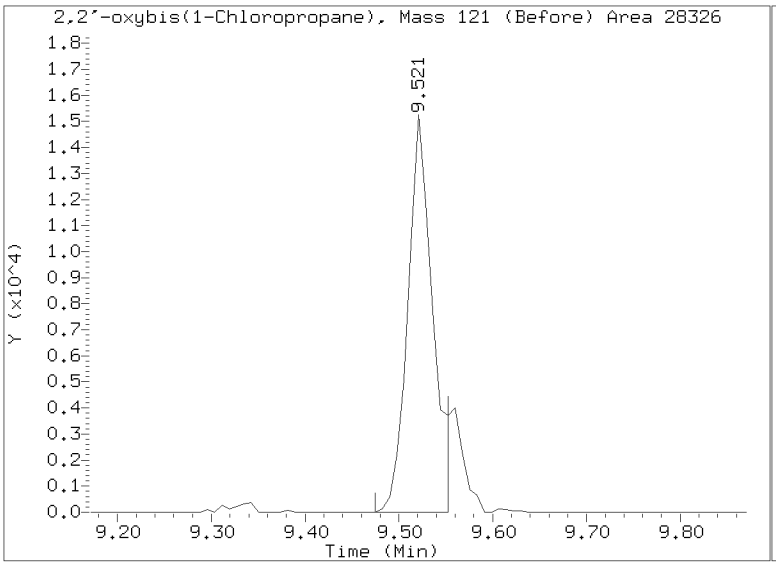
No RRT check. Ccal file.

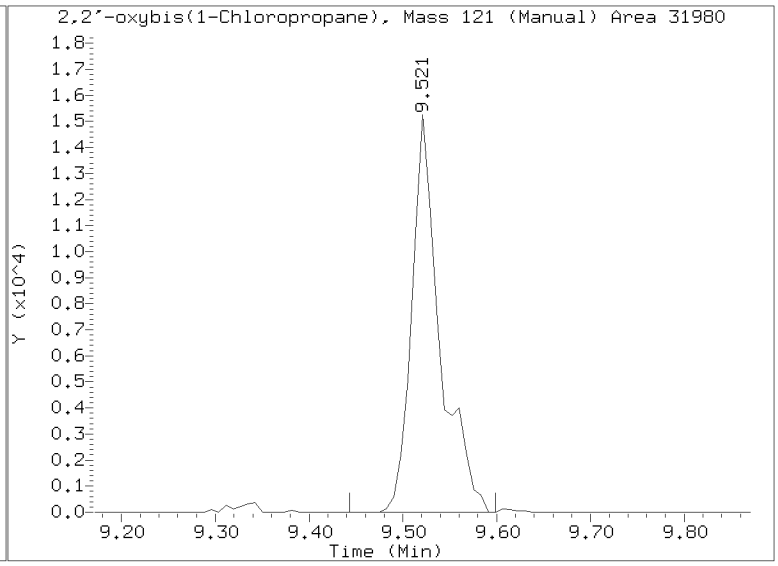
On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032303.D
Injection Date: 03-FEB-2023 14:19
Lab ID:SLB0035-ICV1 Client ID:
Report Date: 02/04/2023 10:26





Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230203.b

Instrument: nt14.i Date: 03-FEB-2023 Method: 20230203.b\ABN.m

INITIAL CAL: 30-DEC-2022

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1402032303.D 03-FEB-2023 14:19

Compound	%D
Benzoic acid	-84.8
4-Chloro-3-methylphenol	-21.1
Hexachlorocyclopentadiene	-35.0
2,4,5-Trichlorophenol	-26.5
2,4-Dinitrophenol	-67.3
4-Nitrophenol	-38.2
4,6-Dinitro-2-methylphenol	-34.4
Pentachlorophenol	-62.6
N-Nitrosodimethylamine	-52.0
Pyridine	-59.0

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT14	Calibration:	GA00072
Lab File ID:	NT1401282311.D	Calibration Date:	01/28/2023
Sequence:	SLA0338	Injection Date:	01/28/23
Lab Sample ID:	SLA0338-SCV1	Injection Time:	21:28
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Phenol	A	5.0000	3.8	1.7314190	1.3244870		-23.5	+/-20	*
bis(2-chloroethyl) ether	A	5.0000	5.3	0.9958279	1.0595920		6.4	+/-20	
2-Chlorophenol	A	5.0000	4.1	1.4376160	1.1889130		-17.3	+/-20	
1,3-Dichlorobenzene	A	5.0000	4.7	1.6053050	1.5009800		-6.5	+/-20	
1,4-Dichlorobenzene	A	5.0000	4.7	1.6220170	1.5085900		-7.0	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.4	1.5948680	1.3877540		-13.0	+/-20	
Benzyl Alcohol	A	5.0000	4.4	0.8536183	0.7538509		-11.7	+/-20	
2,2'-Oxybis(1-chloropropane)	A	5.0000	5.0	0.4465807	0.4445458		-0.5	+/-20	
2-Methylphenol	A	5.0000	3.3	1.3294510	0.8781526		-33.9	+/-20	*
Hexachloroethane	A	5.0000	4.5	0.9784810	0.8792995		-10.1	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	4.8	1.1600720	1.1217360		-3.3	+/-20	
4-Methylphenol	A	5.0000	3.4	1.5005370	1.0284020		-31.5	+/-20	*
Nitrobenzene	A	5.0000	4.9	0.5577650	0.5480318		-1.7	+/-20	
Isophorone	A	5.0000	6.6	0.6308265	0.8317876		31.9	+/-20	*
2-Nitrophenol	A	5.0000	4.1	0.1993315	0.1772060		-17.3	+/-20	
2,4-Dimethylphenol	A	5.0000	3.0	0.5632686	0.3418383		-39.3	+/-20	*
Bis(2-Chloroethoxy)methane	A	5.0000	5.5	0.3186720	0.3476002		9.1	+/-20	
2,4-Dichlorophenol	A	5.0000	4.0	0.3596869	0.2775665		-20.1	+/-20	*
1,2,4-Trichlorobenzene	A	5.0000	4.5	0.3944028	0.3530894		-10.5	+/-20	
Naphthalene	A	5.0000	4.8	1.0064310	0.9676714		-3.9	+/-20	
Benzoic acid	A	10.000	6.7	0.2584467	0.2256598		-33.3	+/-20	*
4-Chloroaniline	A	5.0000	3.5	0.4341940	0.3005902		-29.1	+/-20	*
Hexachlorobutadiene	A	5.0000	4.7	0.3113899	0.2911297		-6.5	+/-20	
4-Chloro-3-Methylphenol	A	5.0000	3.9	0.4715757	0.3721350		-21.1	+/-20	*
2-Methylnaphthalene	A	5.0000	4.4	0.8204755	0.7148887		-12.9	+/-20	
Hexachlorocyclopentadiene	A	5.0000	4.6	0.5583621	0.5206268		-7.3	+/-20	
2,4,6-Trichlorophenol	A	5.0000	3.7	0.4917022	0.3646648		-25.8	+/-20	*
2,4,5-Trichlorophenol	A	5.0000	3.6	0.5559869	0.3936659		-27.7	+/-20	*
2-Chloronaphthalene	A	5.0000	4.7	1.1843780	1.1141790		-5.9	+/-20	
2-Nitroaniline	A	5.0000	4.5	0.6947979	0.6265583		-9.8	+/-20	
Acenaphthylene	A	5.0000	4.7	1.8539820	1.7407260		-6.1	+/-20	
Dimethylphthalate	A	5.0000	4.9	1.5325510	1.4943100		-2.5	+/-20	
2,6-Dinitrotoluene	A	5.0000	4.6	0.3517665	0.3238405		-7.9	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT14	Calibration:	GA00072
Lab File ID:	NT1401282311.D	Calibration Date:	01/28/2023
Sequence:	SLA0338	Injection Date:	01/28/23
Lab Sample ID:	SLA0338-SCV1	Injection Time:	21:28
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Acenaphthene	A	5.0000	4.8	1.2540530	1.2107670		-3.5	+/-20
3-Nitroaniline	A	5.0000	4.5	0.3396149	0.3039907		-10.5	+/-20
2,4-Dinitrophenol	A	5.0000	2.1	0.2957139	0.1456421		-57.9	+/-20 *
Dibenzofuran	A	5.0000	4.6	1.8172410	1.6548310		-8.9	+/-20
4-Nitrophenol	A	5.0000	3.7	0.6210968	0.5111792		-26.9	+/-20 *
2,4-Dinitrotoluene	A	5.0000	4.3	0.4882129	0.4210431		-13.8	+/-20
Fluorene	A	5.0000	4.7	2.3310880	2.2250220		-5.5	+/-20
4-Chlorophenylphenyl ether	A	5.0000	4.5	1.2836630	1.1510640		-10.3	+/-20
Diethyl phthalate	A	5.0000	5.0	2.2270210	2.2068350		-0.9	+/-20
4-Nitroaniline	A	5.0000	4.5	0.4032820	0.3633755		-9.9	+/-20
4,6-Dinitro-2-methylphenol	A	5.0000	3.4	0.2159561	0.1620790		-31.6	+/-20 *
N-Nitrosodiphenylamine	A	5.0000	4.5	0.6768586	0.6129447		-9.4	+/-20
4-Bromophenyl phenyl ether	A	5.0000	4.6	0.3154991	0.2888147		-8.5	+/-20
Hexachlorobenzene	A	5.0000	4.5	0.3600430	0.3206462		-10.9	+/-20
Pentachlorophenol	A	5.0000	3.4	0.1835627	0.1358525		-31.2	+/-20 *
Phenanthrene	A	5.0000	4.6	1.0792710	0.9829478		-8.9	+/-20
Anthracene	A	5.0000	4.1	1.0312780	0.8378072		-18.8	+/-20
Carbazole	A	5.0000	4.4	0.9469682	0.8303621		-12.3	+/-20
Di-n-Butylphthalate	A	5.0000	4.9	1.4681930	1.4529350		-1.0	+/-20
Fluoranthene	A	5.0000	4.8	1.6266230	1.5096860		-4.9	+/-20
Pyrene	A	5.0000	4.7	1.6247260	1.4804770		-6.0	+/-20
Butylbenzylphthalate	A	5.0000	4.8	0.8300818	0.8361850		-3.1	+/-20
Benzo(a)anthracene	A	5.0000	4.6	1.4589300	1.3336840		-8.6	+/-20
3,3'-Dichlorobenzidine	A	10.000	8.2	0.6871215	0.5444002		-17.7	+/-20
Chrysene	A	5.0000	4.5	1.5331530	1.2920030		-10.7	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	4.8	0.6849635	0.6569486		-3.5	+/-20
Di-n-Octylphthalate	A	5.0000	4.8	1.0099620	0.9766161		-3.3	+/-20
Benzofluoranthenes, Total	A	10.000	9.1	1.3683800	1.2443310		-9.1	+/-20
Benzo(a)pyrene	A	5.0000	4.7	1.2009850	1.1192070		-6.8	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	4.6	1.5172980	1.4068180		-7.3	+/-20
Dibenzo(a,h)anthracene	A	5.0000	4.5	1.3066590	1.1642920		-10.9	+/-20
Benzo(g,h,i)perylene	A	5.0000	4.7	1.1236370	1.0466430		-6.9	+/-20
1-Methylnaphthalene	A	5.0000	4.4	0.7967743	0.6976302		-12.4	+/-20
2-Fluorophenol	A	7.5000	8.18	1.0743480	1.1712400		9.0	+/-20

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT14	Calibration:	GA00072
Lab File ID:	NT1401282311.D	Calibration Date:	01/28/2023
Sequence:	SLA0338	Injection Date:	01/28/23
Lab Sample ID:	SLA0338-SCV1	Injection Time:	21:28
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol-d5	A	7.5000	7.72	1.4115870	1.4530270		2.9	+/-20
2-Chlorophenol-d4	A	7.5000	7.53	1.3653120	1.3715650		0.5	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.77	0.9689903	0.9247703		-4.6	+/-20
Nitrobenzene-d5	A	5.0000	5.28	0.5723133	0.6045999		5.6	+/-20
2-Fluorobiphenyl	A	5.0000	5.02	1.4235590	1.4289060		0.4	+/-20
2,4,6-Tribromophenol	A	7.5000	7.86	0.3434165	0.3519492		4.8	+/-20
p-Terphenyl-d14	A	5.0000	5.00	1.3753550	1.3238540		0.07	+/-20

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Page 1

Date : 28-JAN-2023 21:28

Client ID:

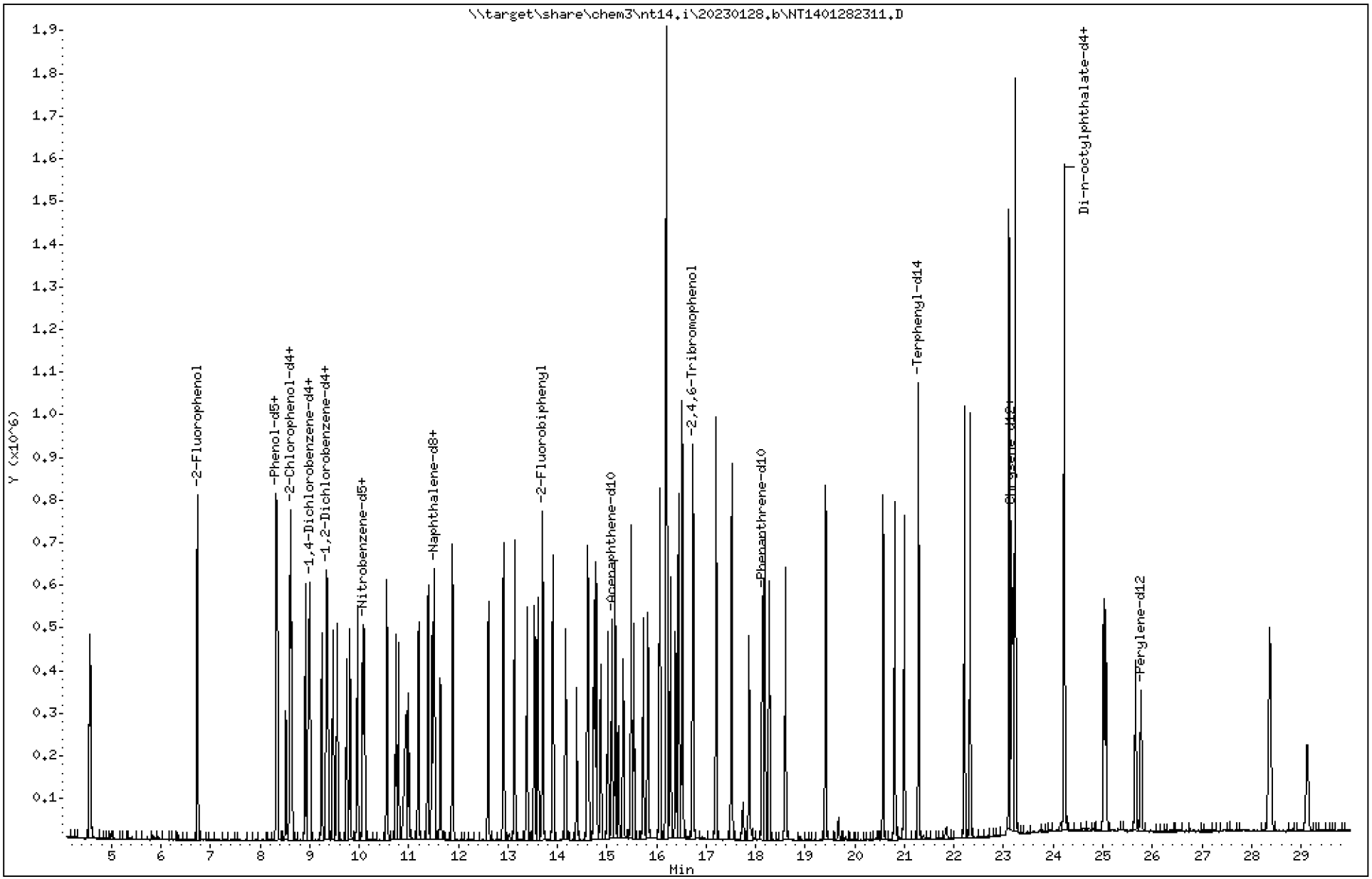
Instrument: nt14.i

Sample Info: SLA0338-SCV1

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

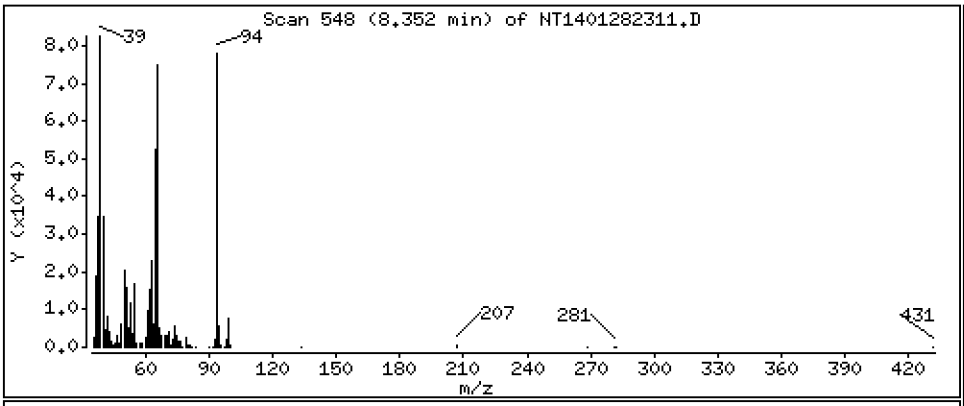
Operator: JGR

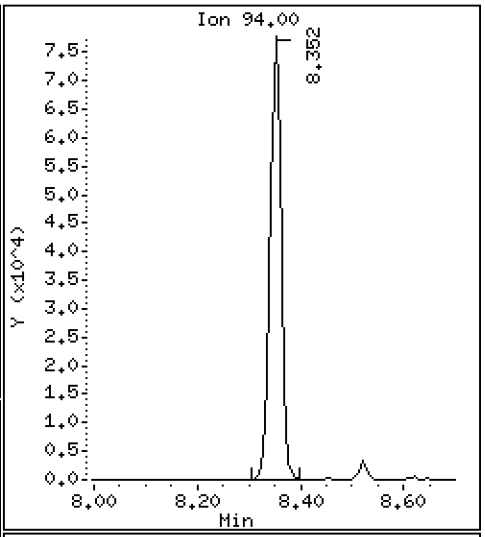
Column phase: ZB-5msi

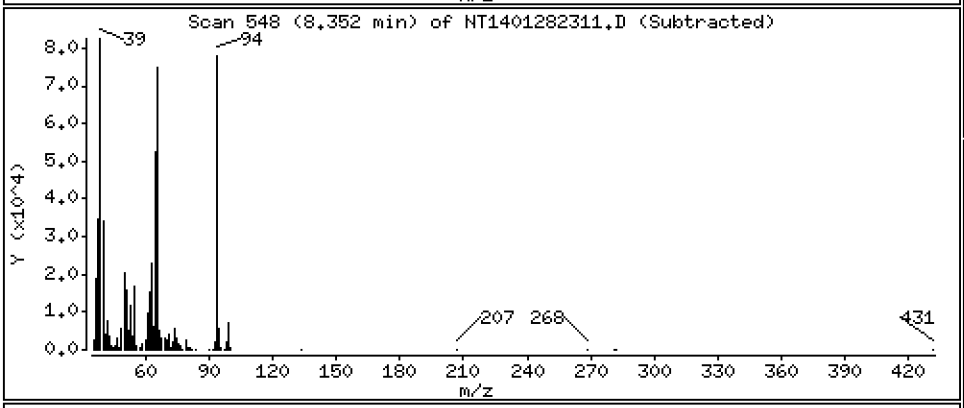
Column diameter: 0.25

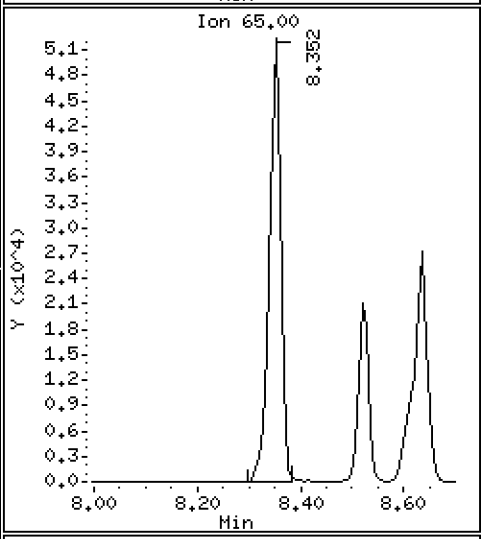
3 Phenol

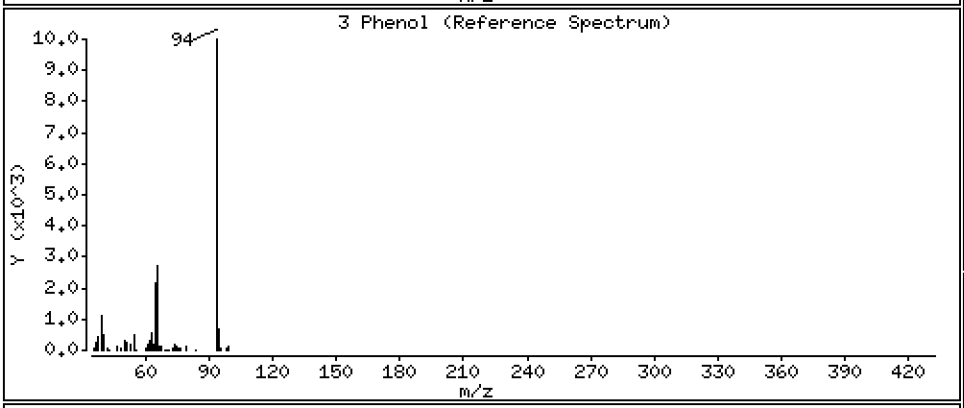
Concentration: 3.825 ug/mL

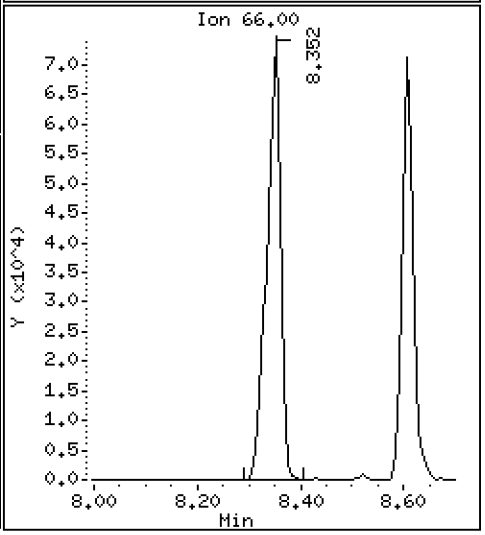


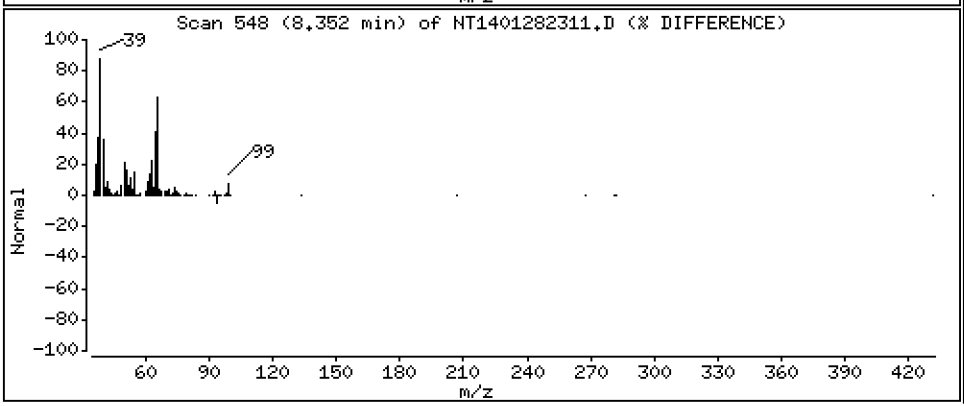












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

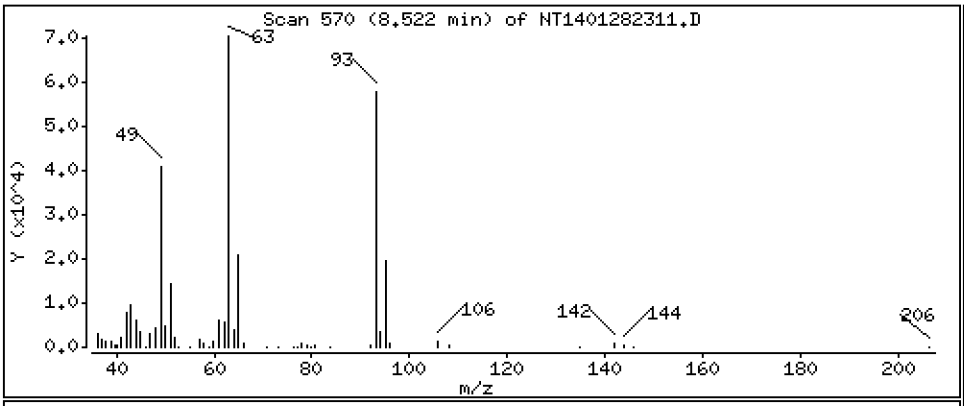
Operator: JGR

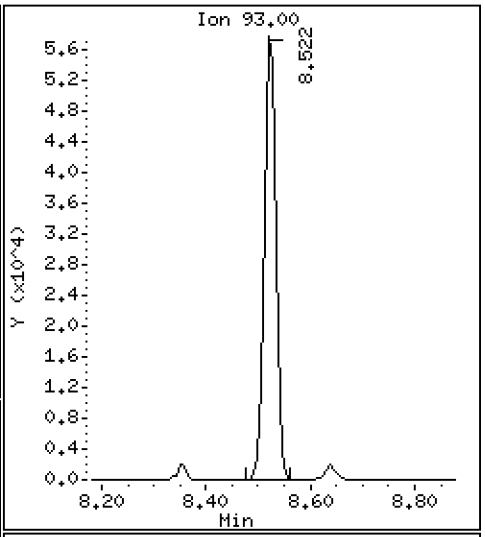
Column phase: ZB-5msi

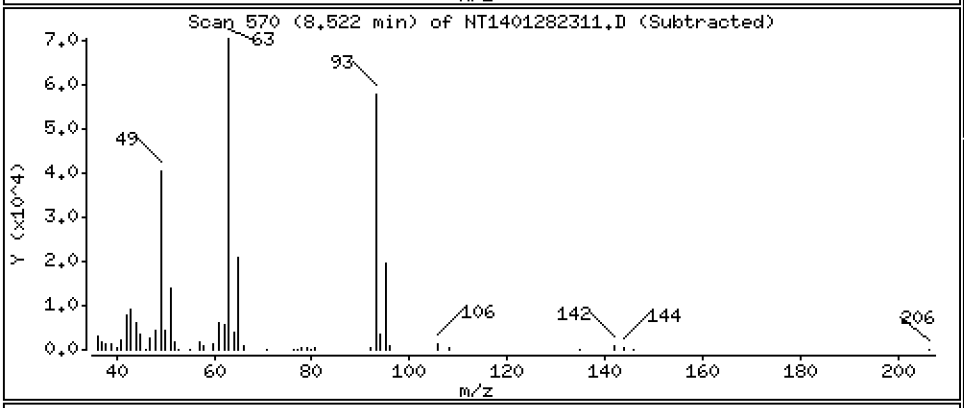
Column diameter: 0.25

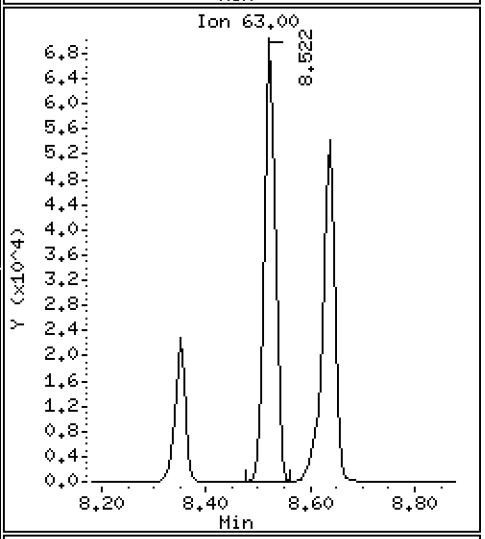
4 Bis(2-Chloroethyl)ether

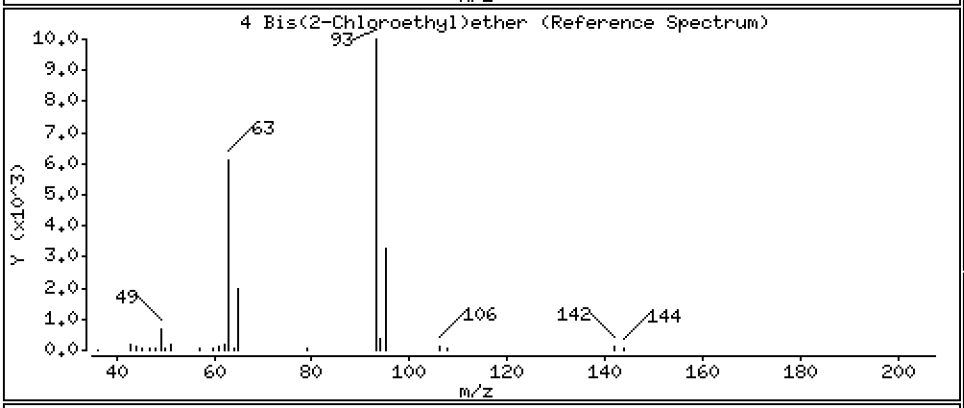
Concentration: 5.320 ug/mL

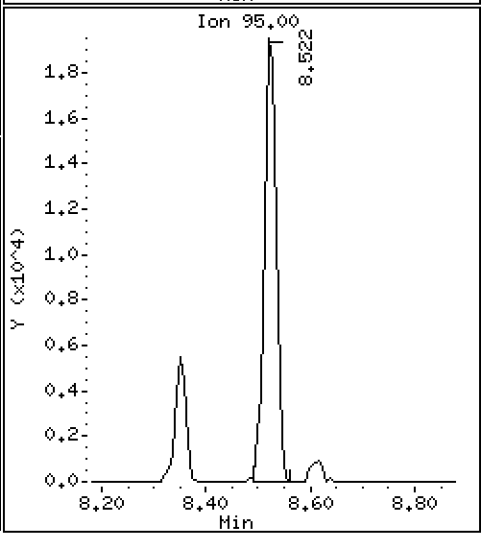


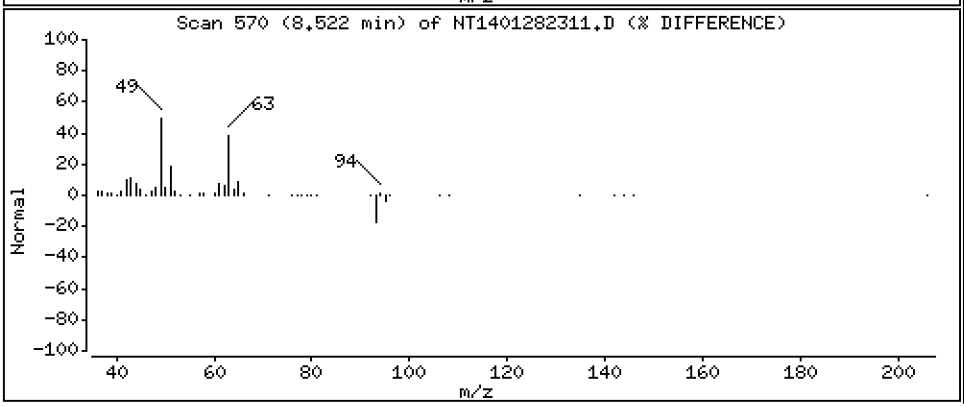












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

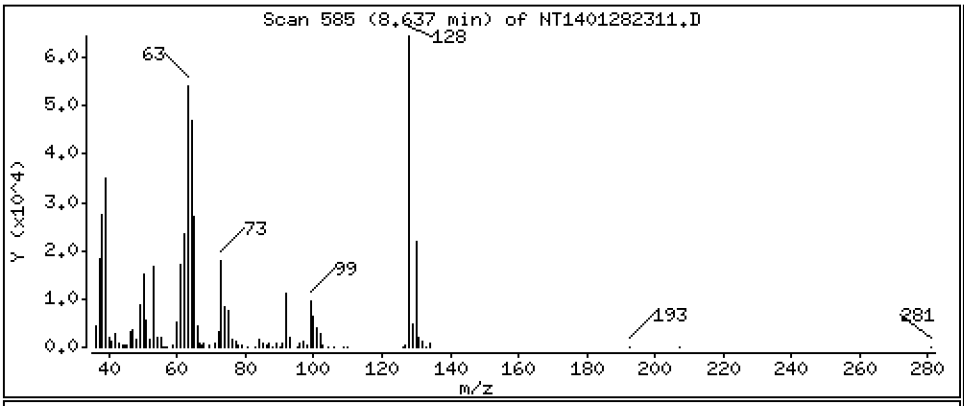
Operator: JGR

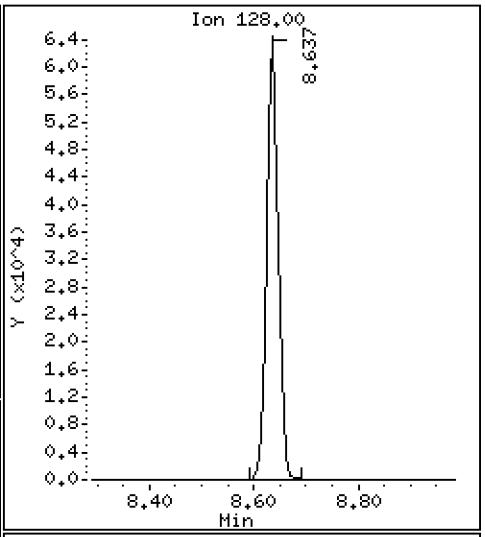
Column phase: ZB-5msi

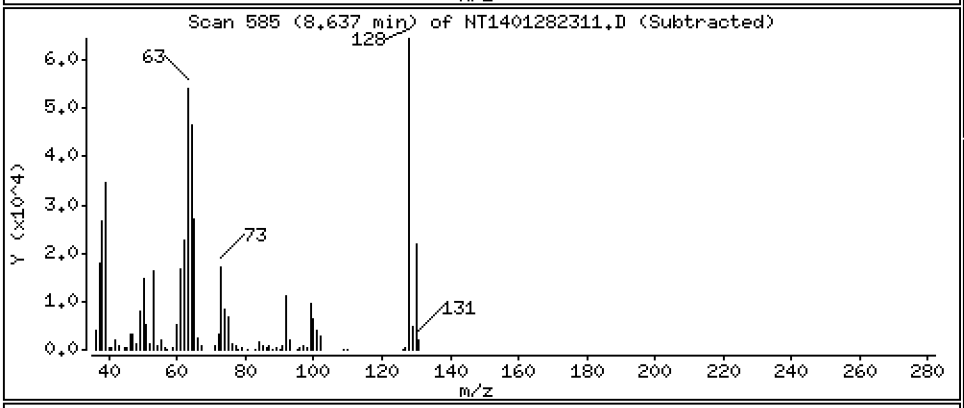
Column diameter: 0.25

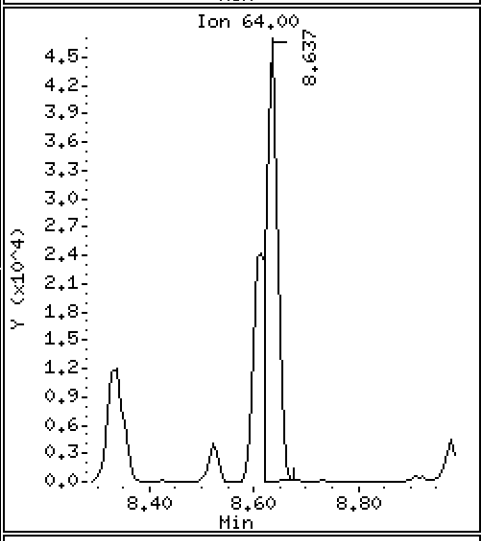
6 2-Chlorophenol

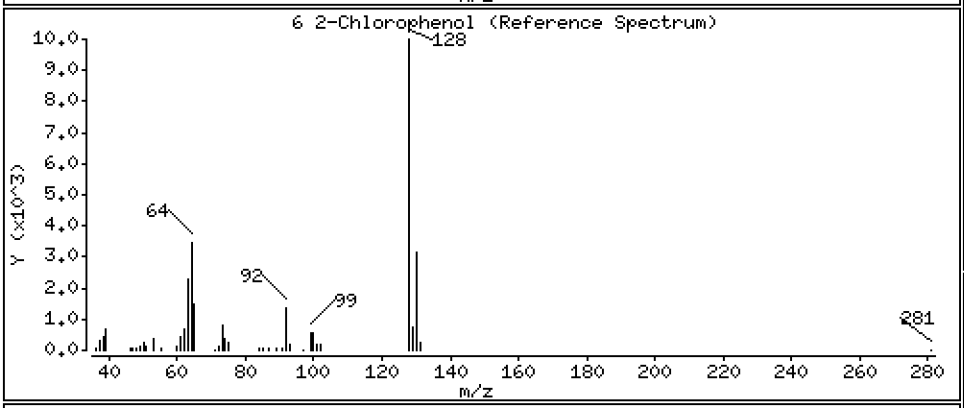
Concentration: 4.135 ug/mL

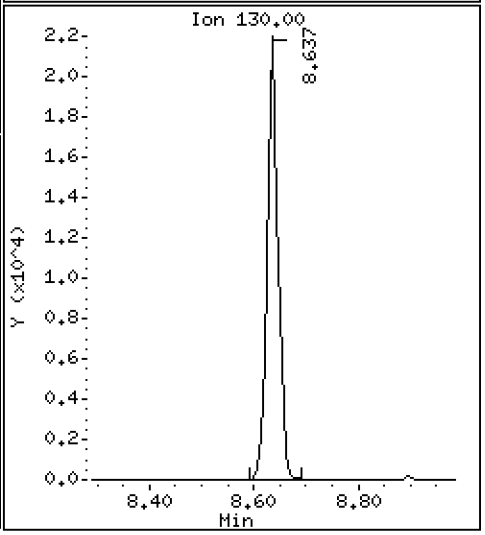


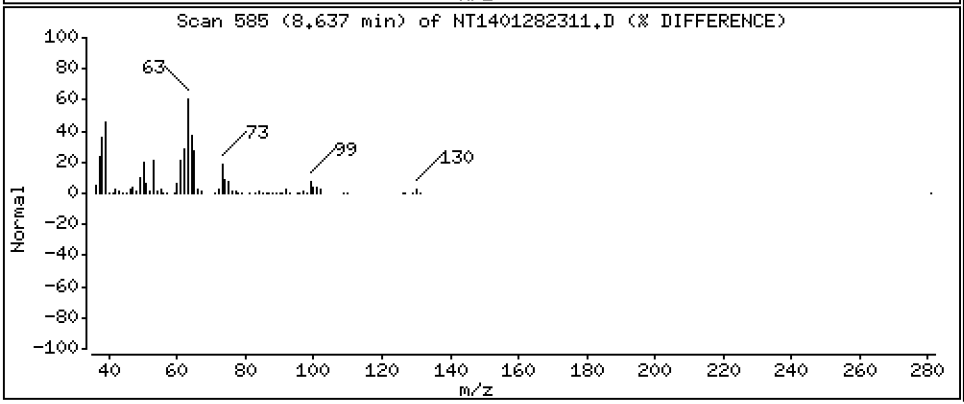












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

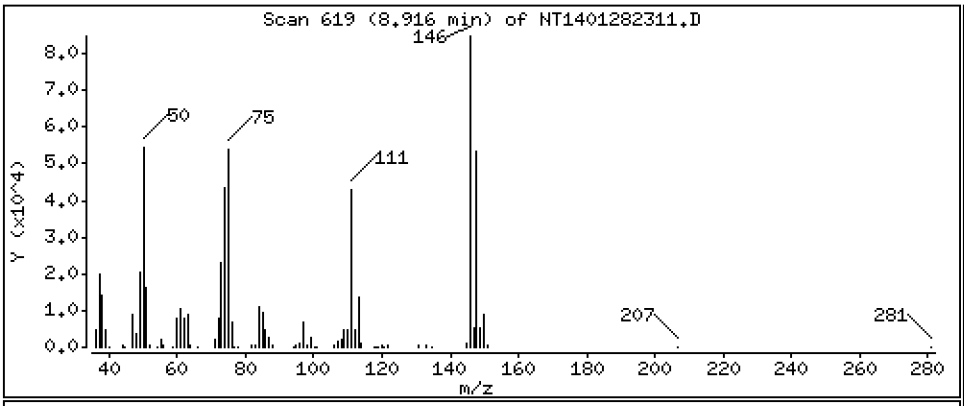
Operator: JGR

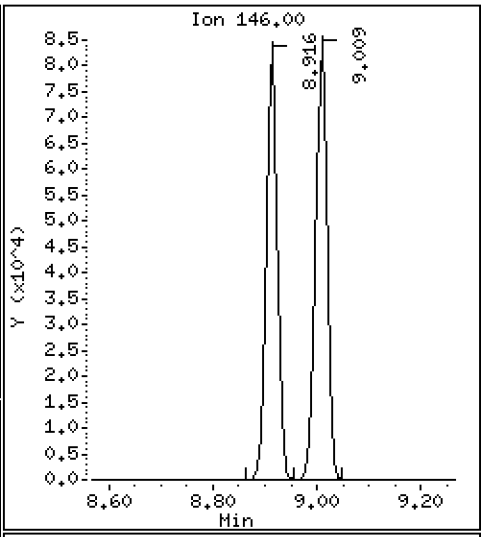
Column phase: ZB-5msi

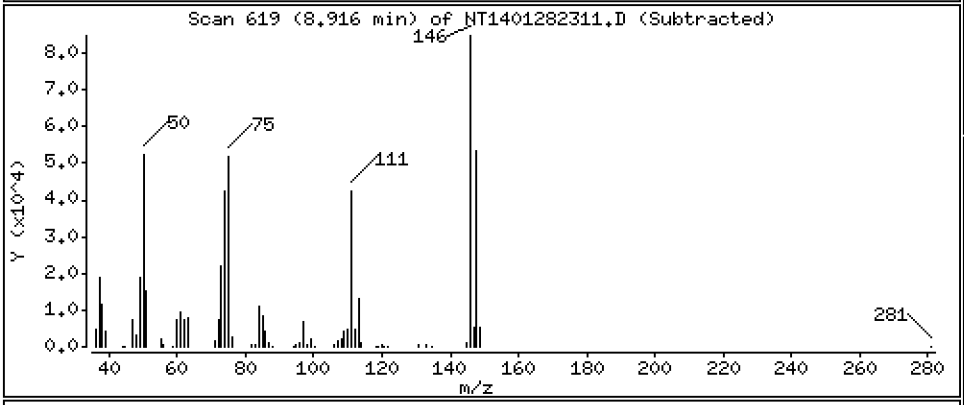
Column diameter: 0.25

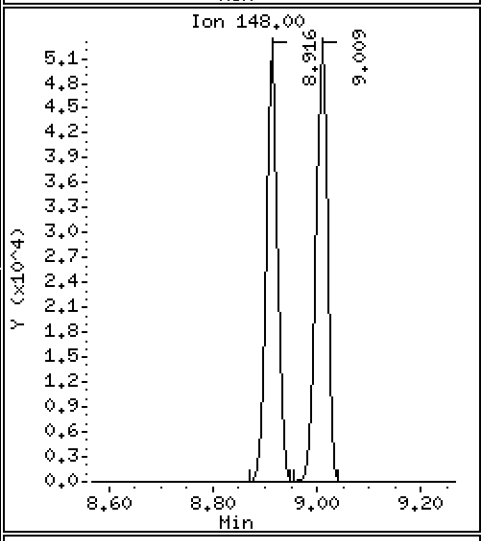
7 1,3-Dichlorobenzene

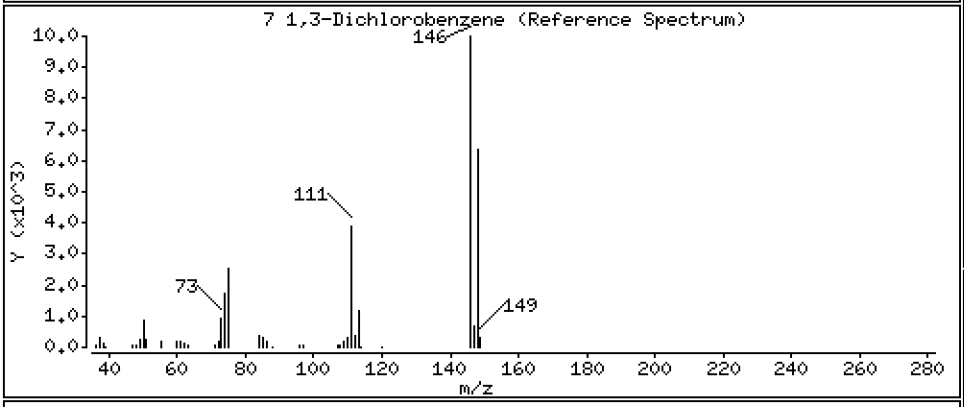
Concentration: 4.675 ug/mL

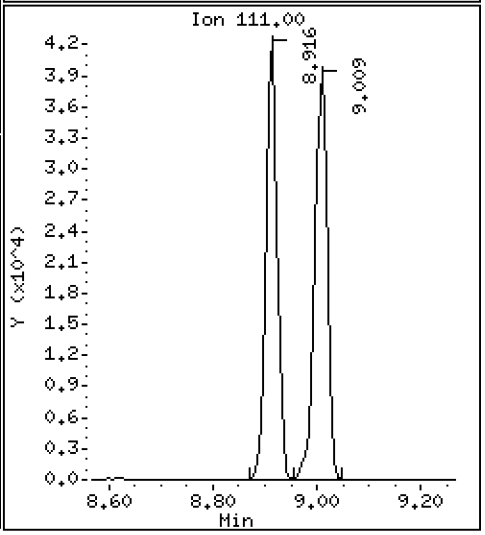


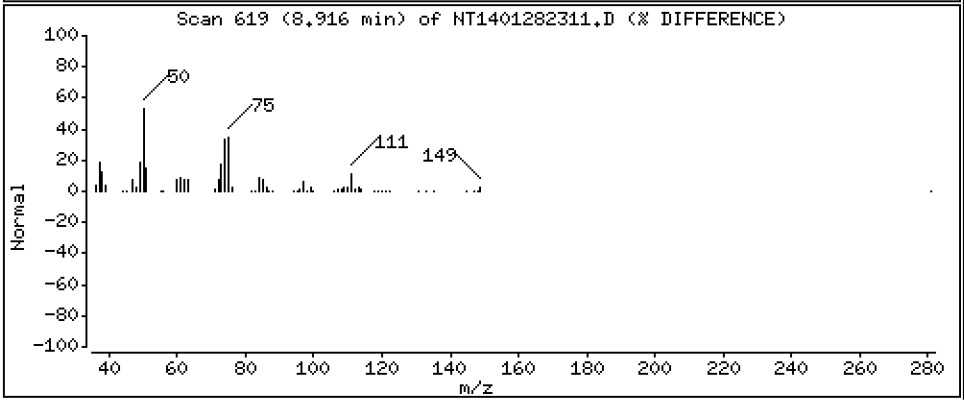












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

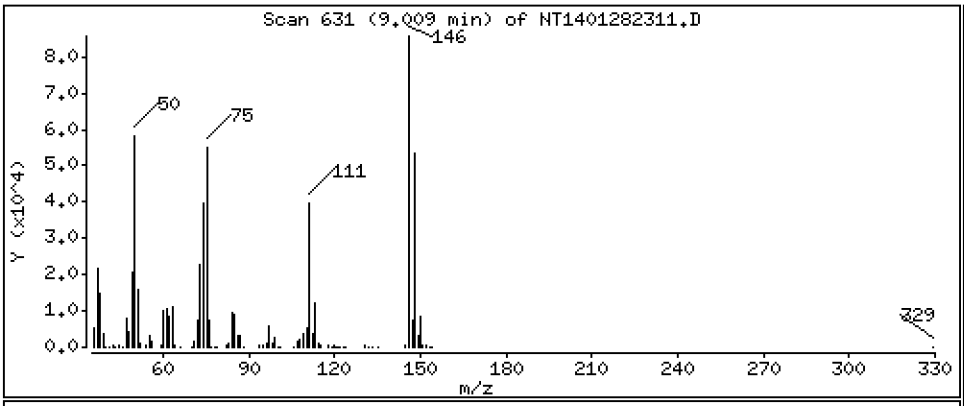
Operator: JGR

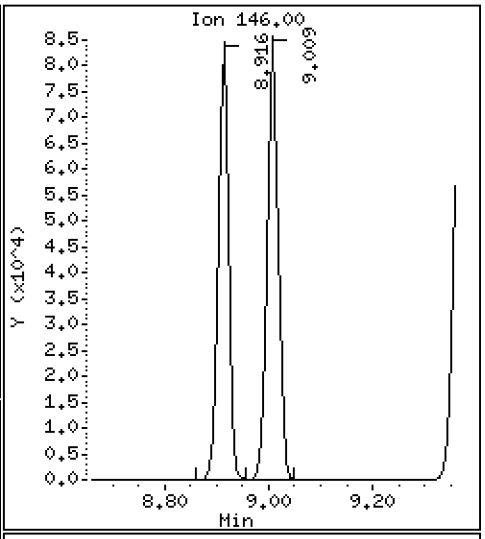
Column phase: ZB-5msi

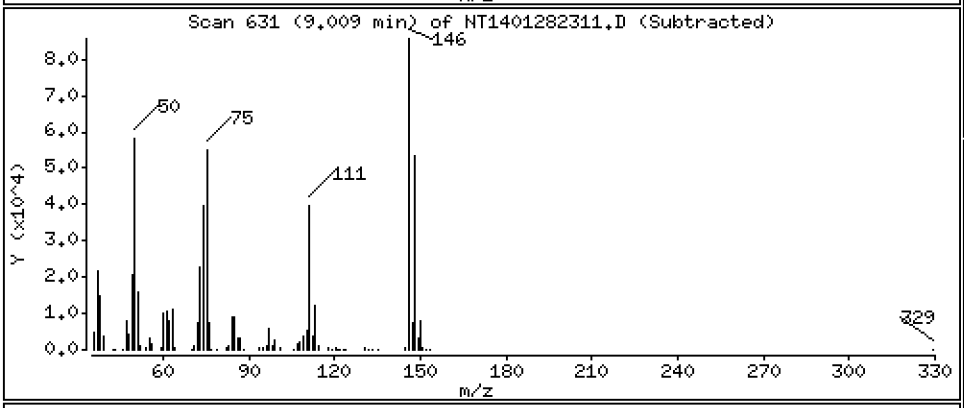
Column diameter: 0.25

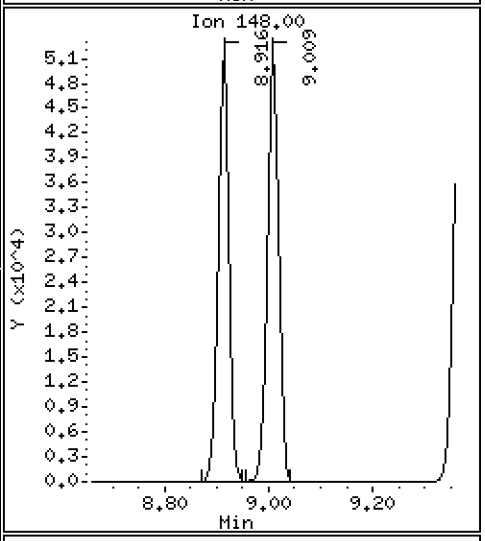
9 1,4-Dichlorobenzene

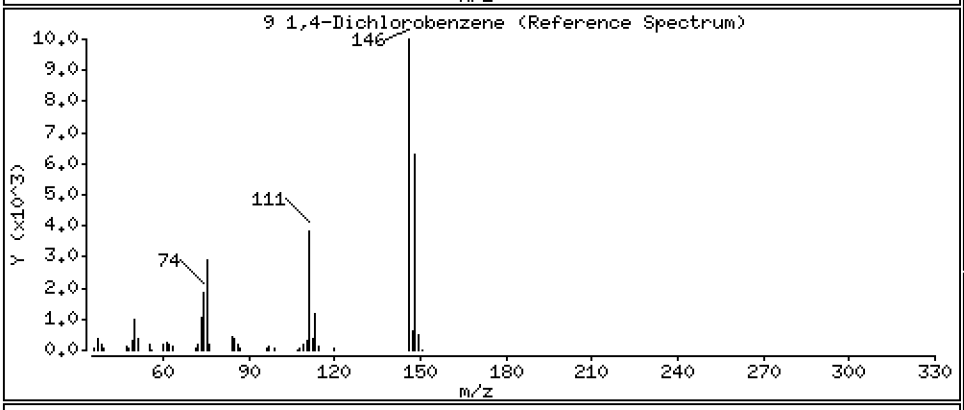
Concentration: 4.650 ug/mL

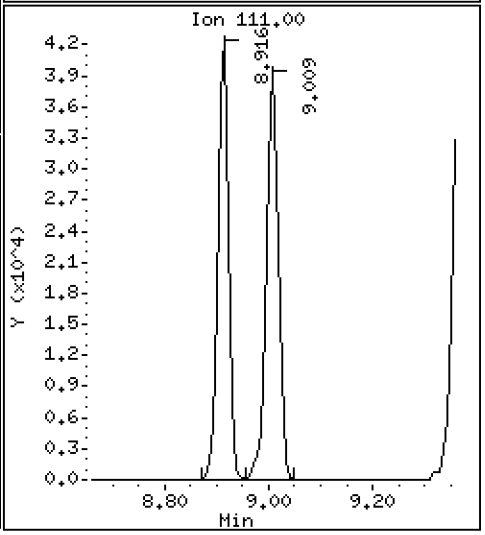


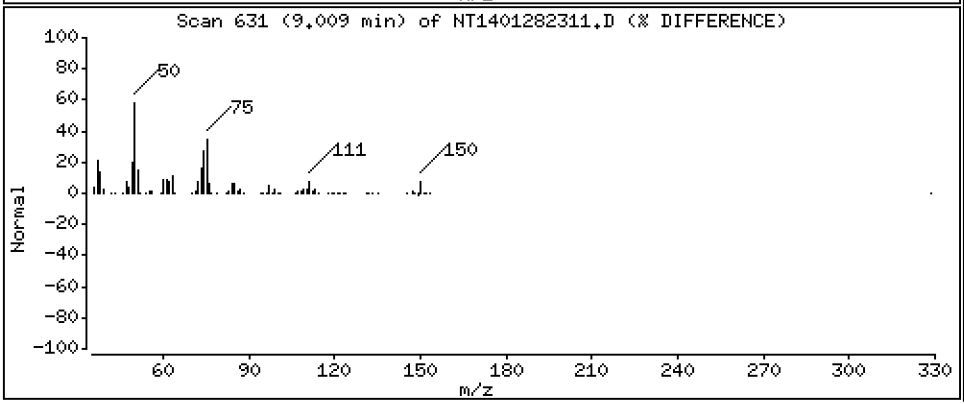












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

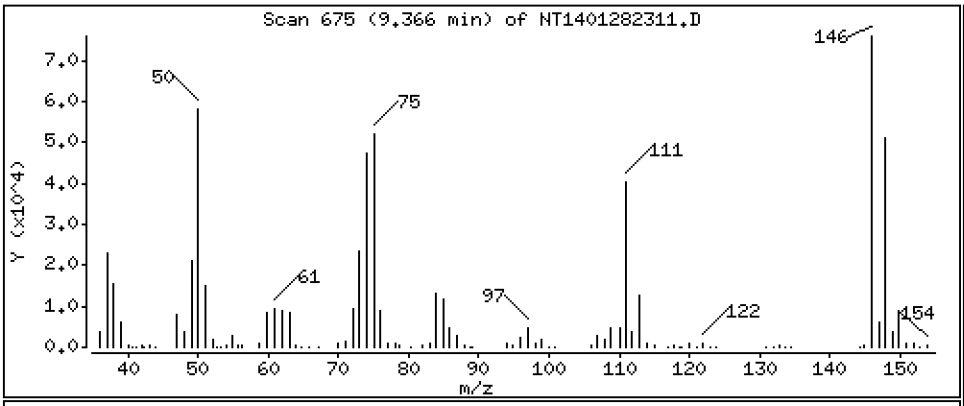
Operator: JGR

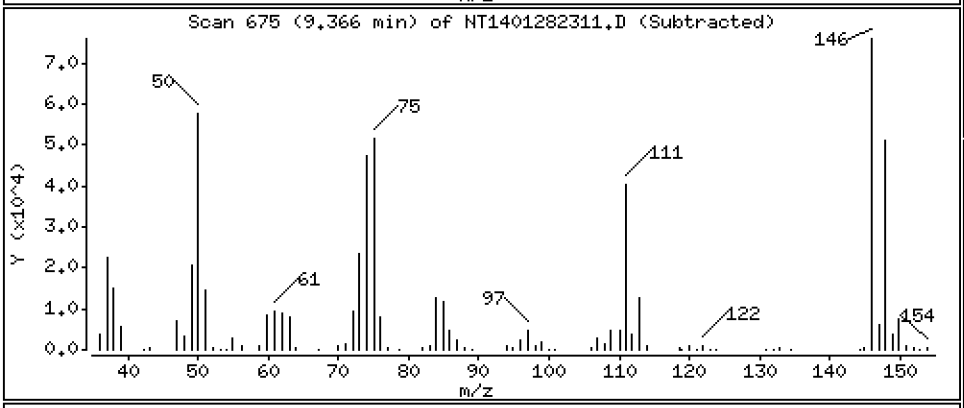
Column phase: ZB-5msi

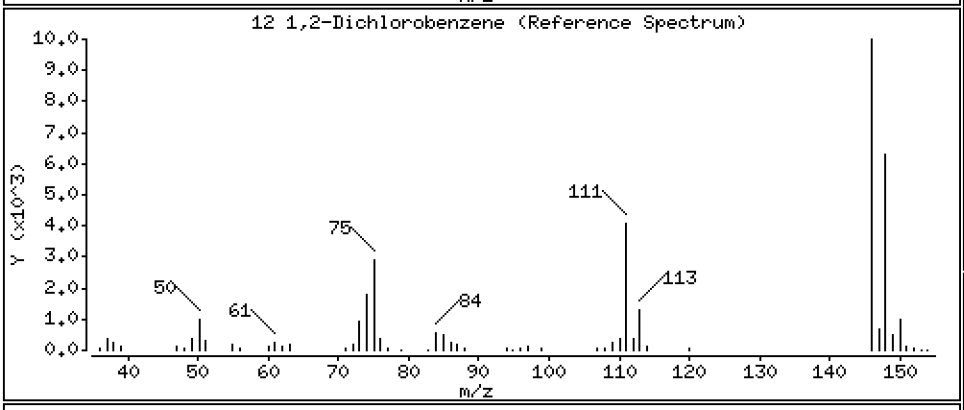
Column diameter: 0.25

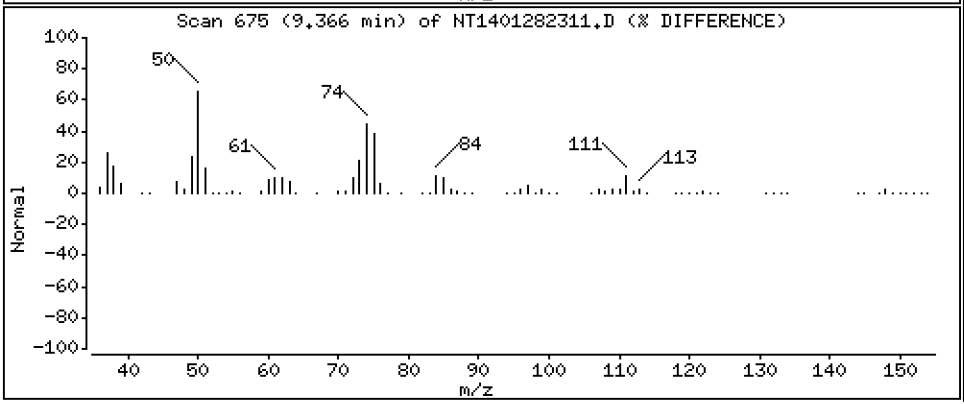
12 1,2-Dichlorobenzene

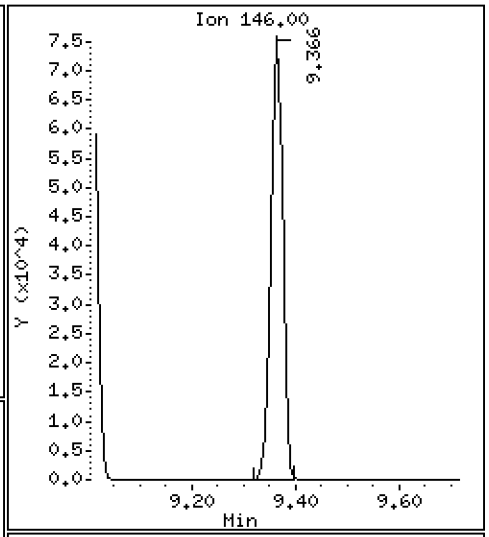
Concentration: 4.351 ug/mL

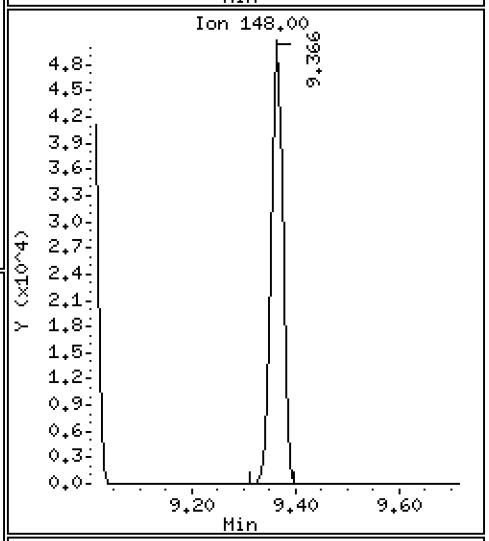


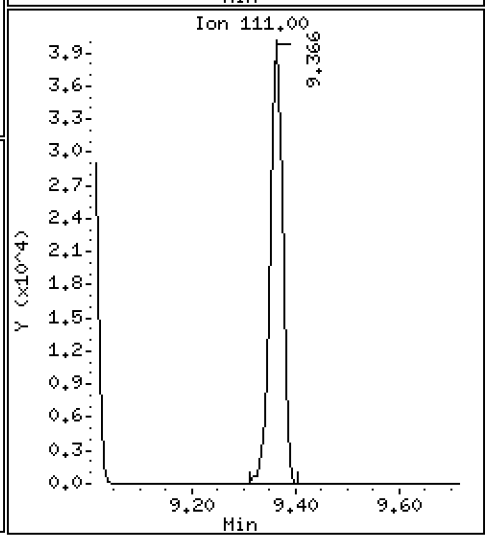












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

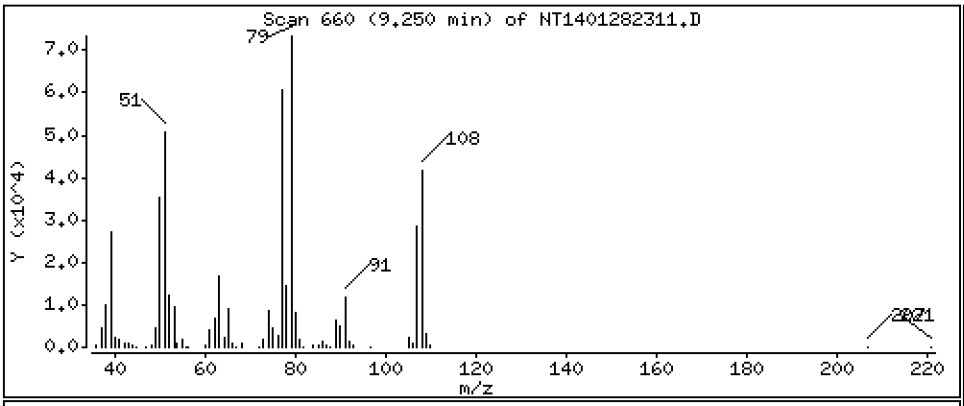
Operator: JGR

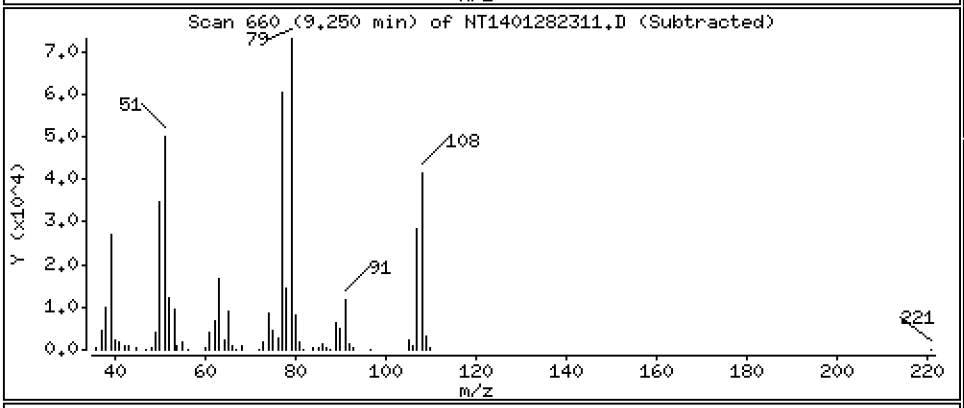
Column phase: ZB-5msi

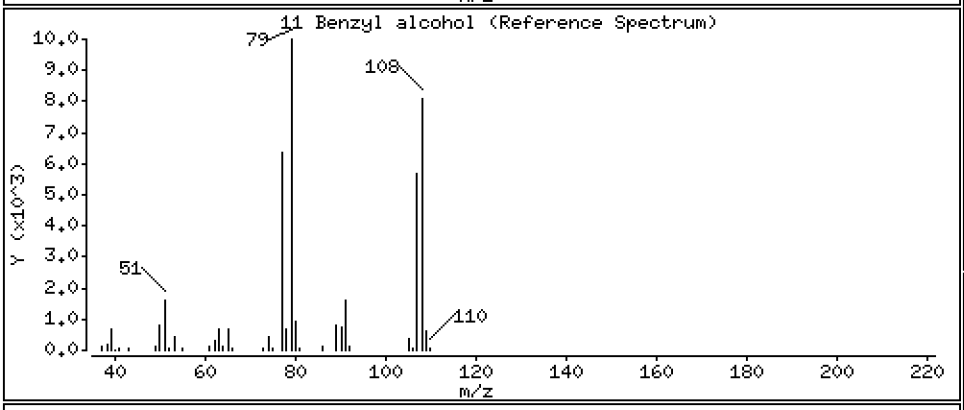
Column diameter: 0.25

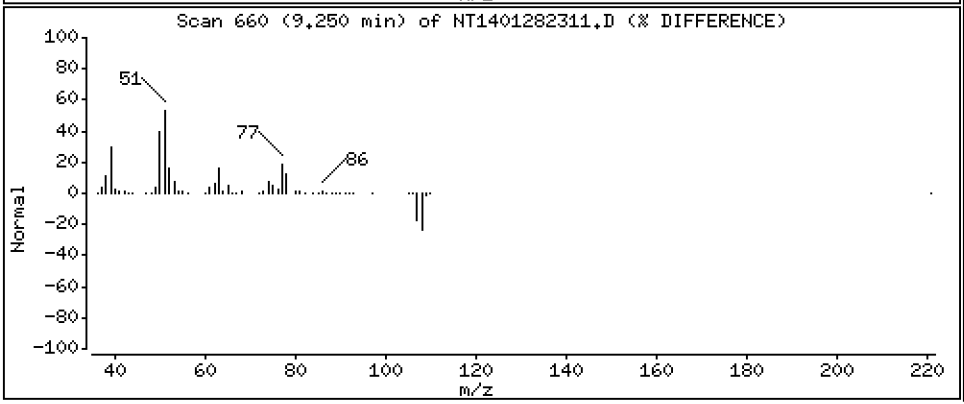
11 Benzyl alcohol

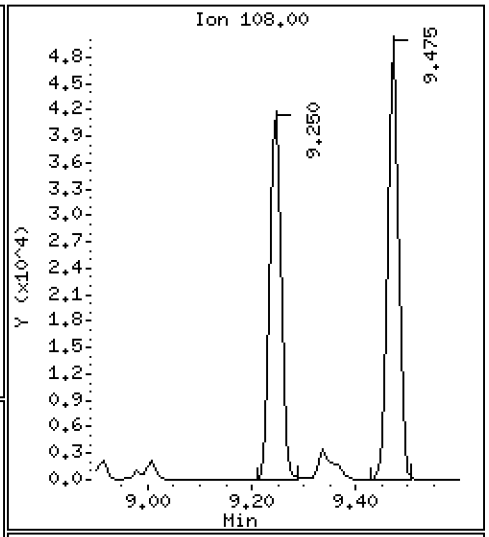
Concentration: 4.416 ug/mL

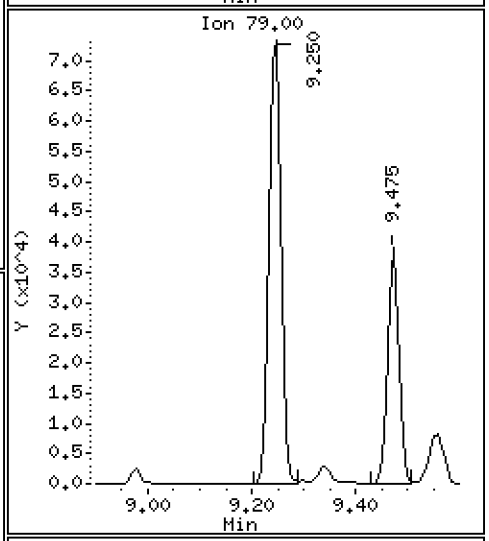


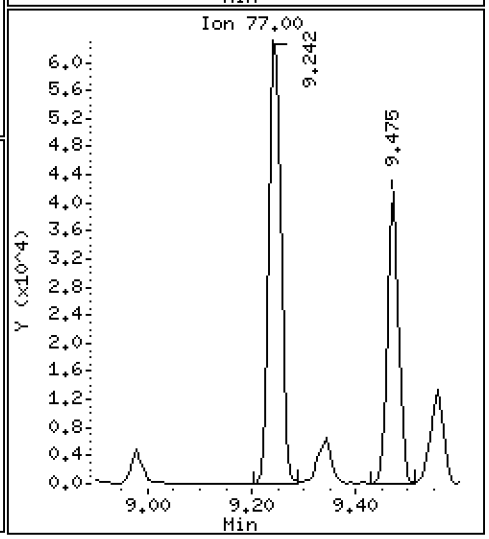












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

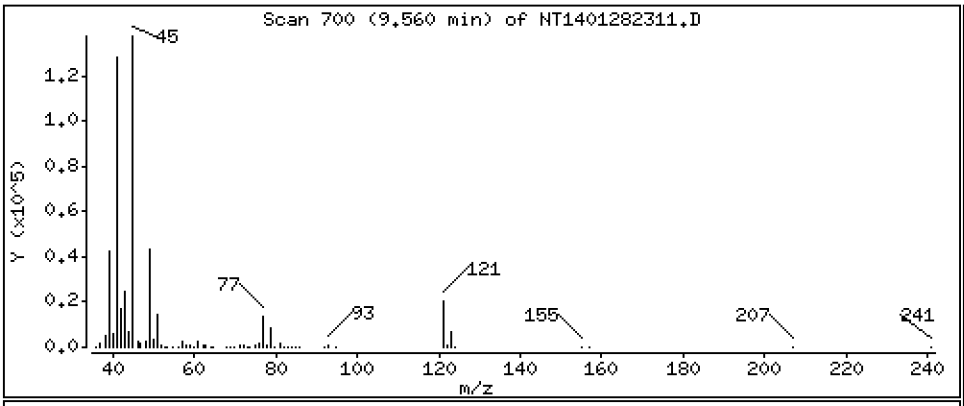
Operator: JGR

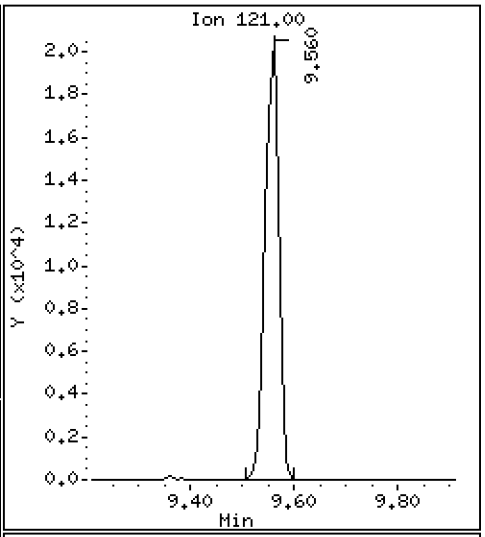
Column phase: ZB-5msi

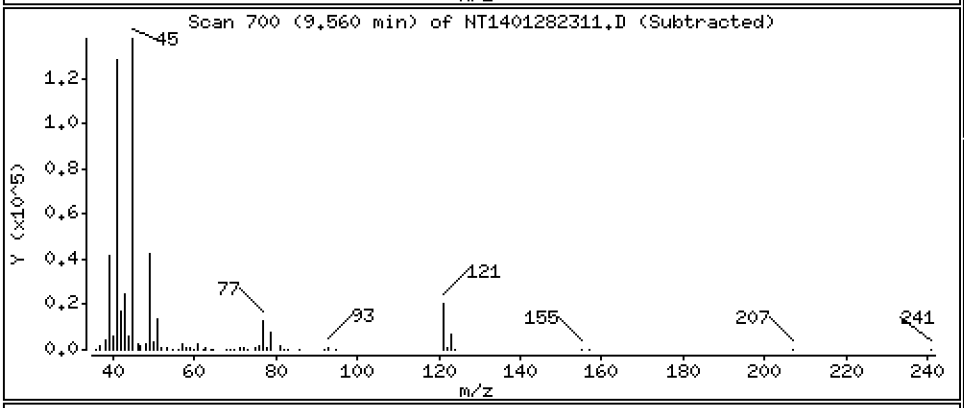
Column diameter: 0.25

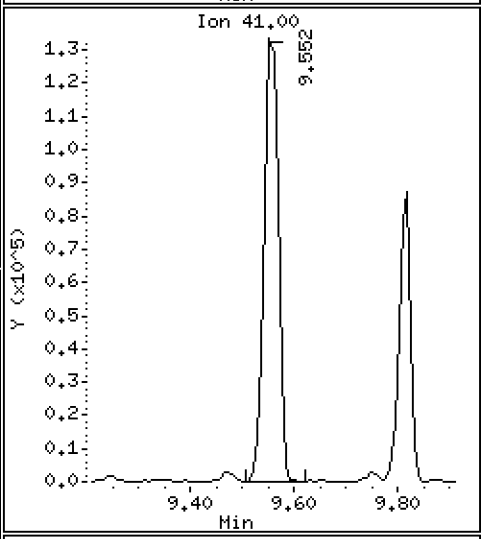
14 2,2'-oxybis(1-Chloropropane)

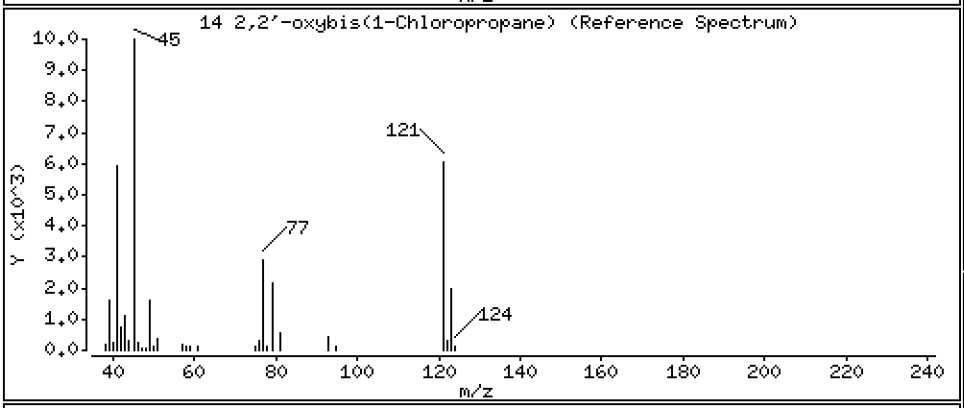
Concentration: 4.977 ug/mL

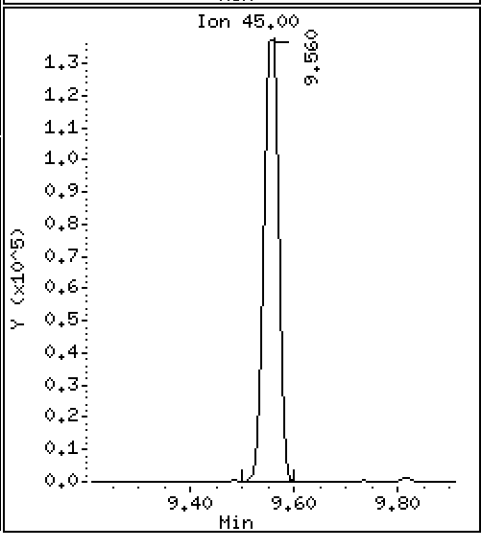


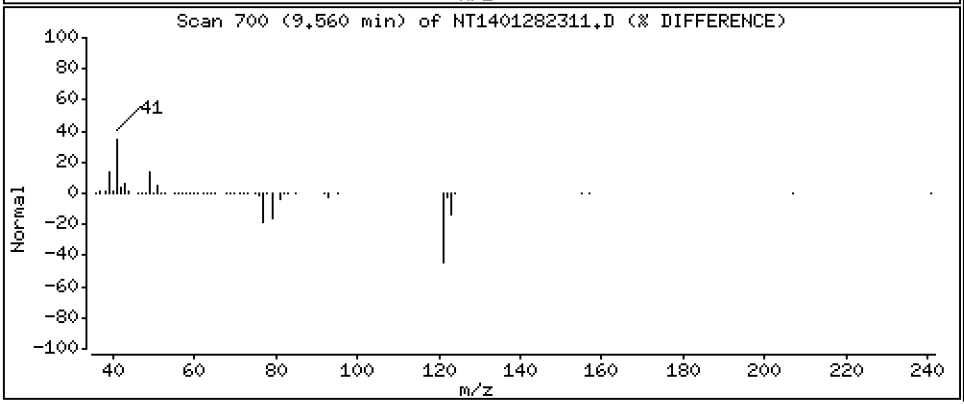












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

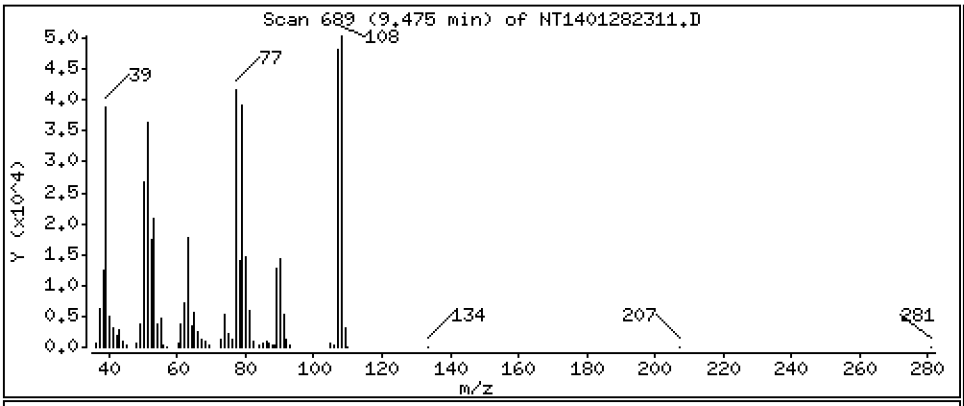
Operator: JGR

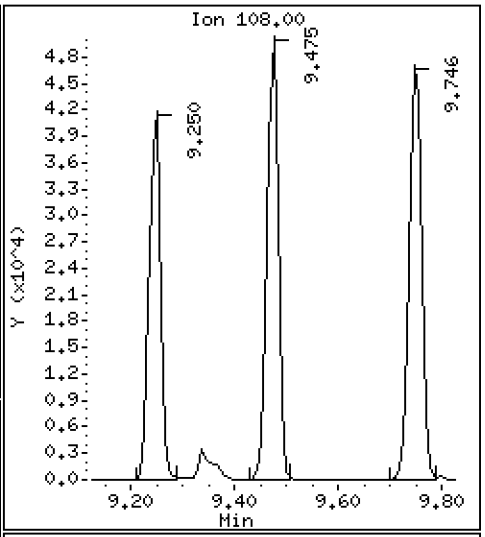
Column phase: ZB-5msi

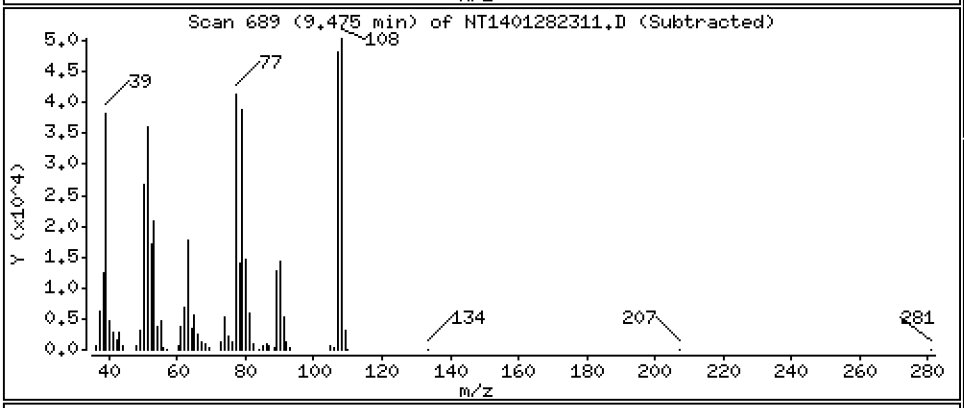
Column diameter: 0.25

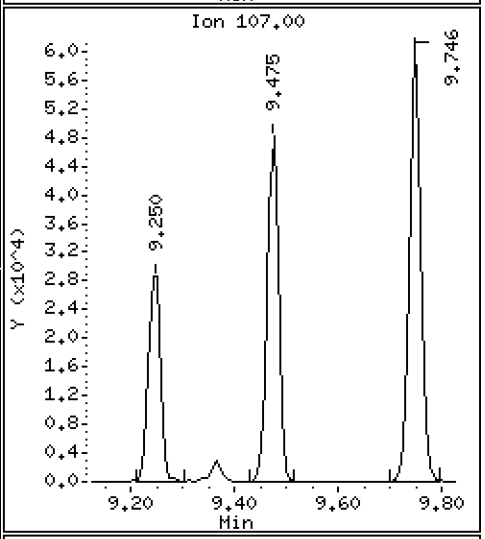
13 2-Methylphenol

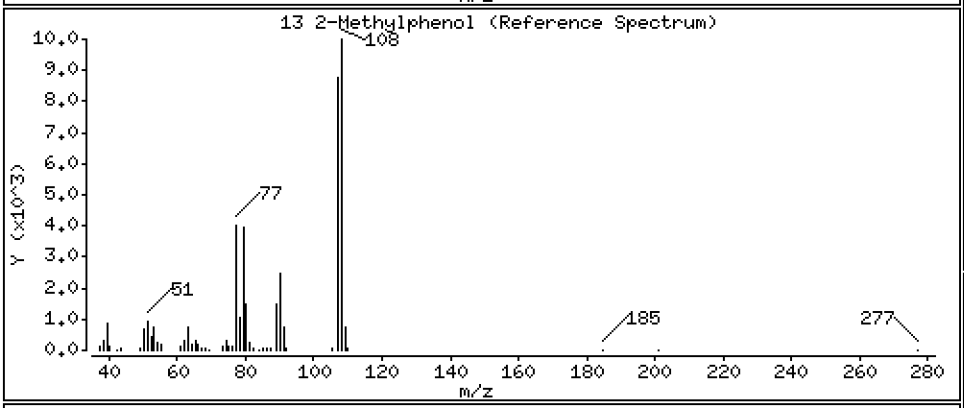
Concentration: 3.303 ug/mL

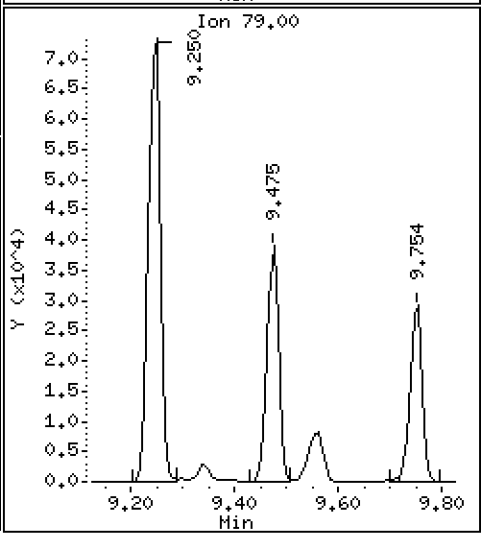


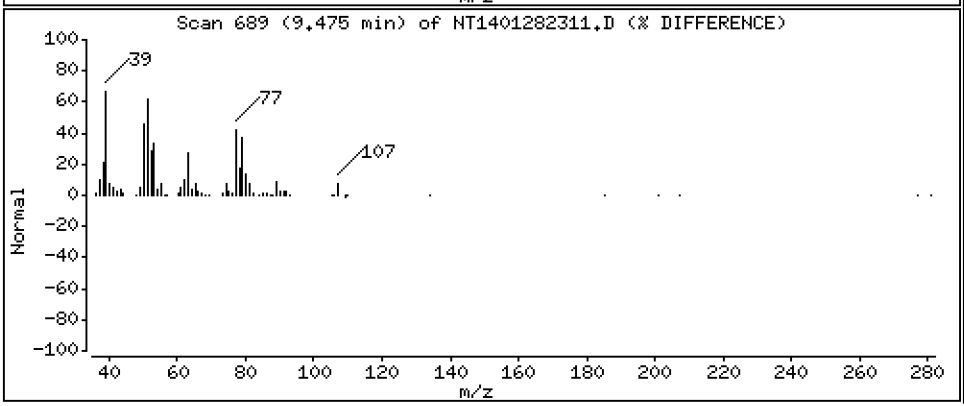












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

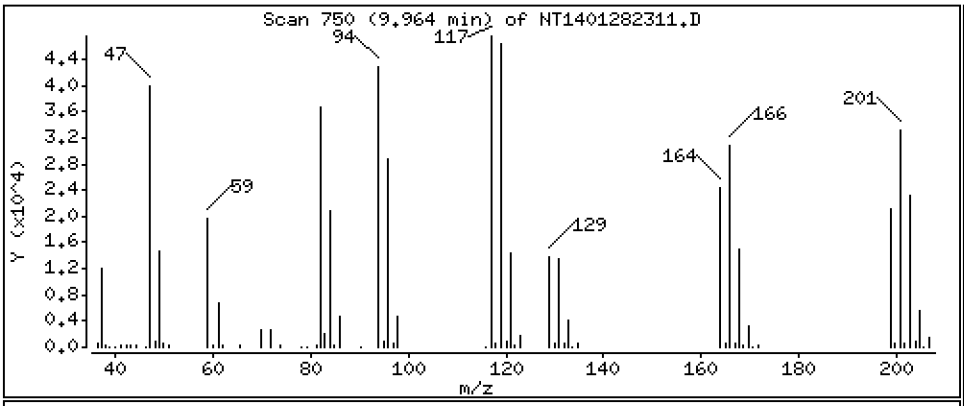
Operator: JGR

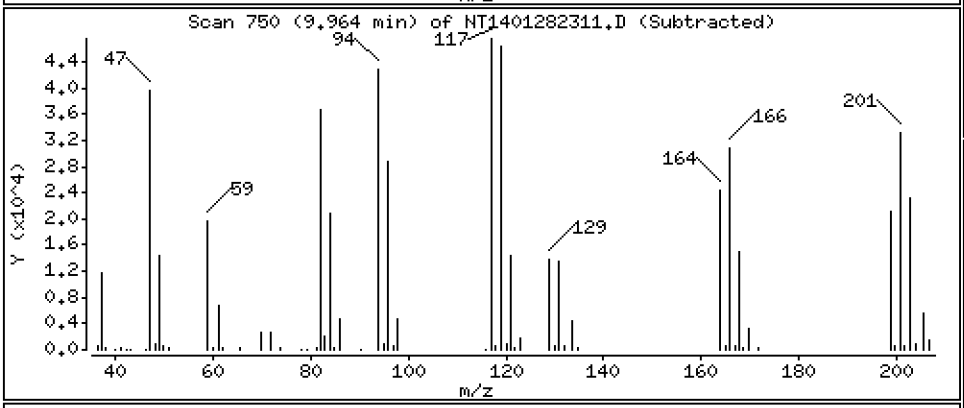
Column phase: ZB-5msi

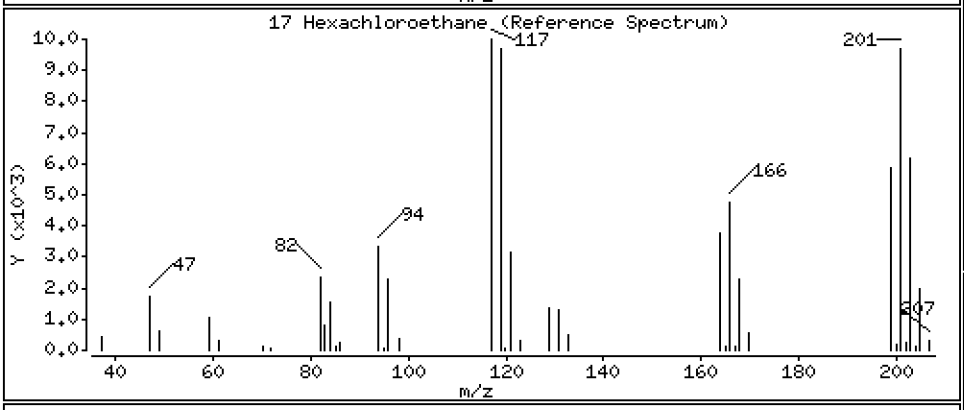
Column diameter: 0.25

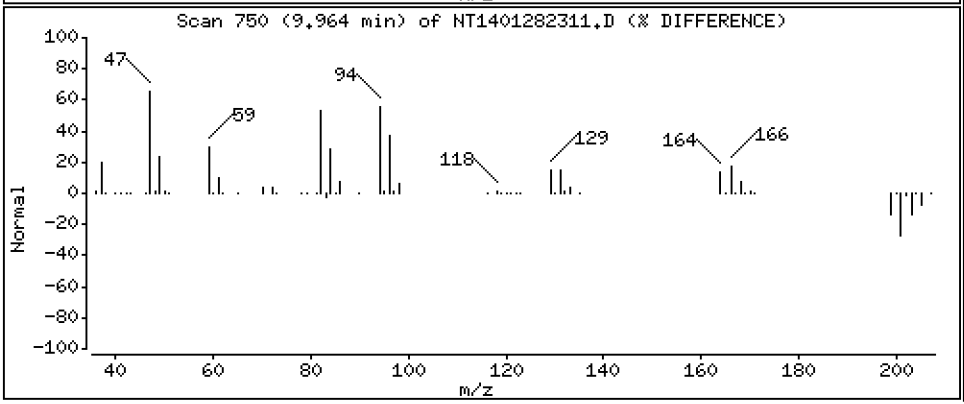
17 Hexachloroethane

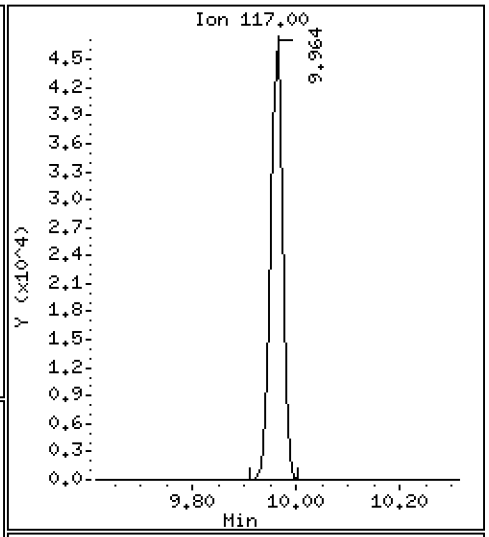
Concentration: 4.493 ug/mL

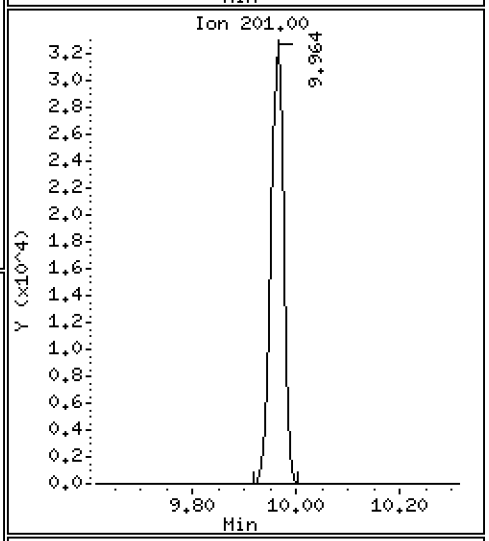


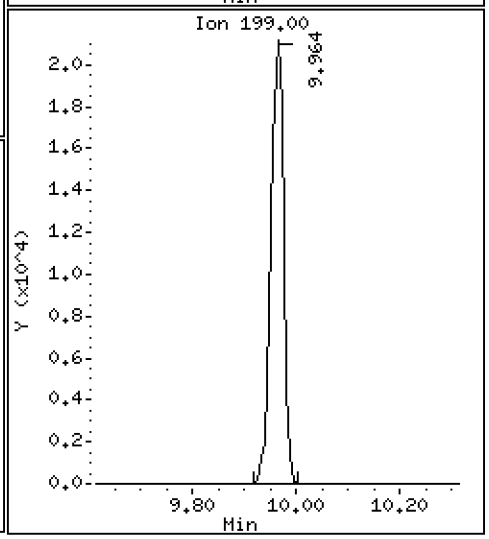












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

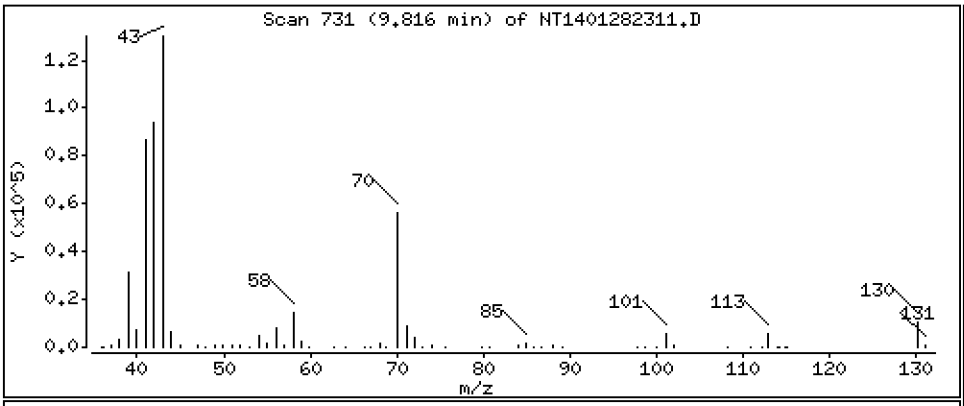
Operator: JGR

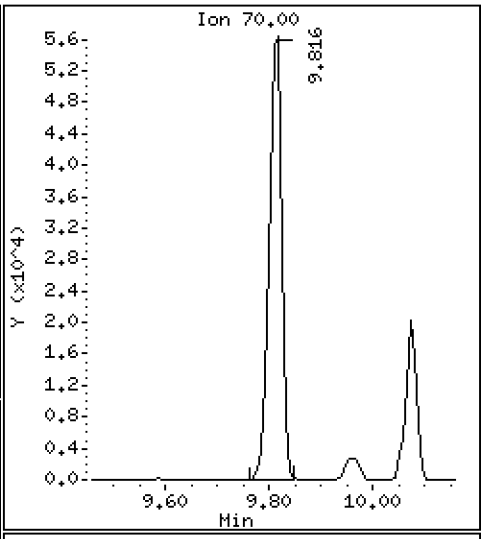
Column phase: ZB-5msi

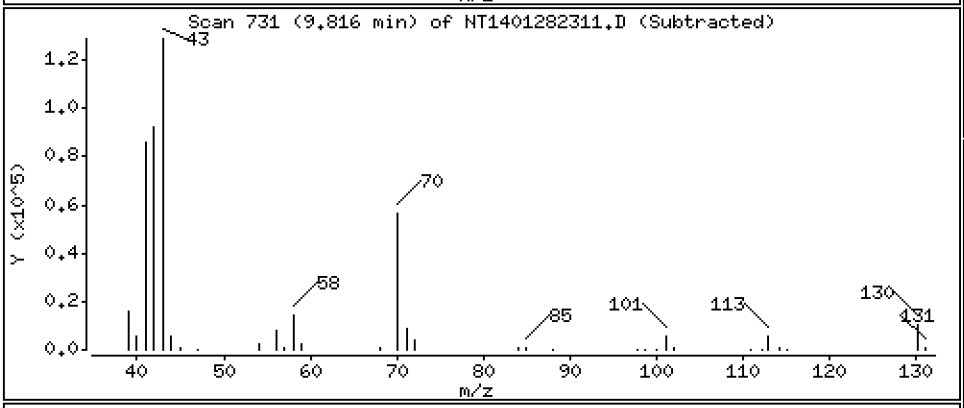
Column diameter: 0.25

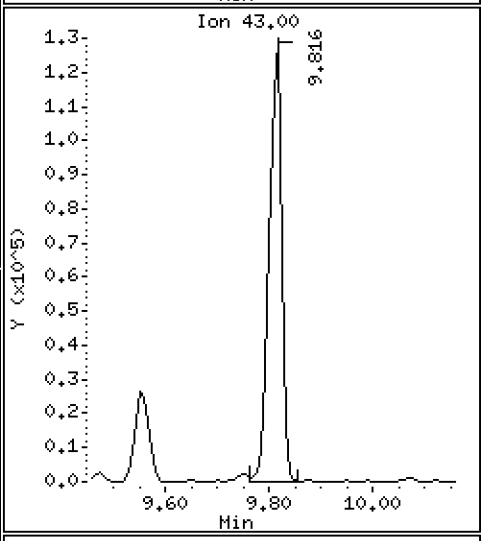
16 N-Nitroso-di-n-propylamine

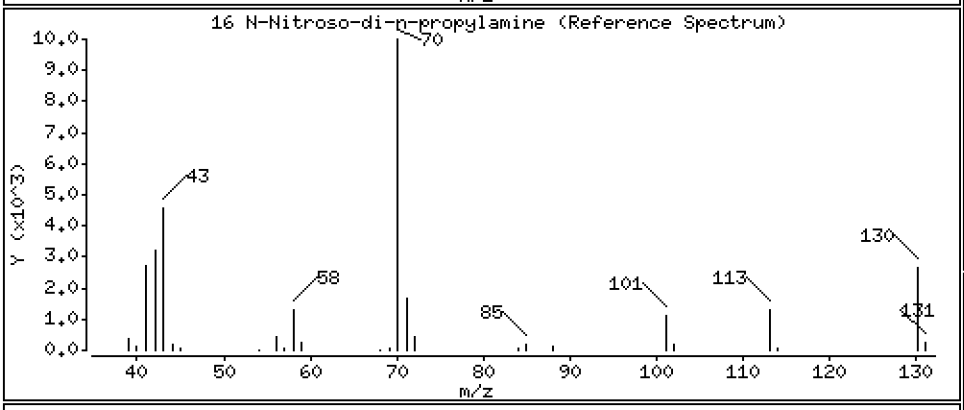
Concentration: 4.835 ug/mL

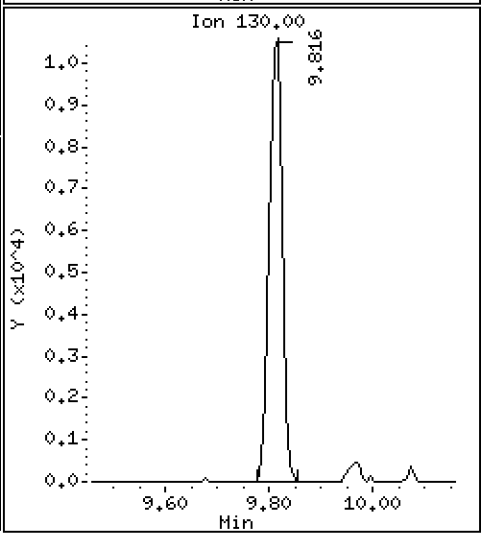


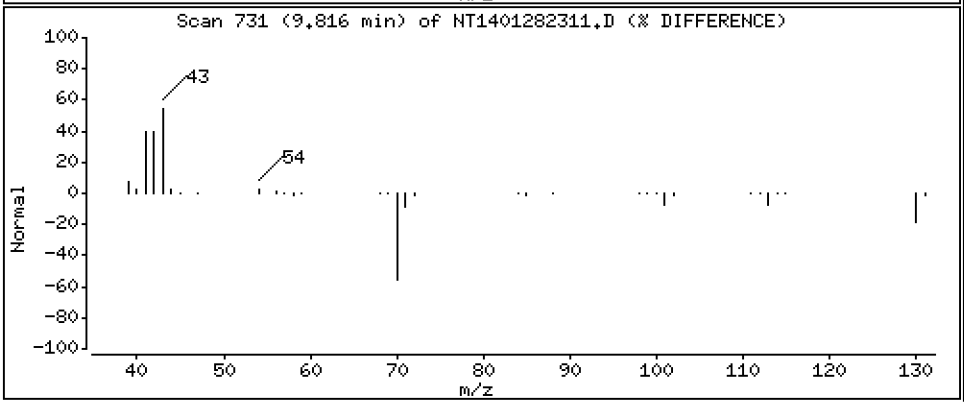












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

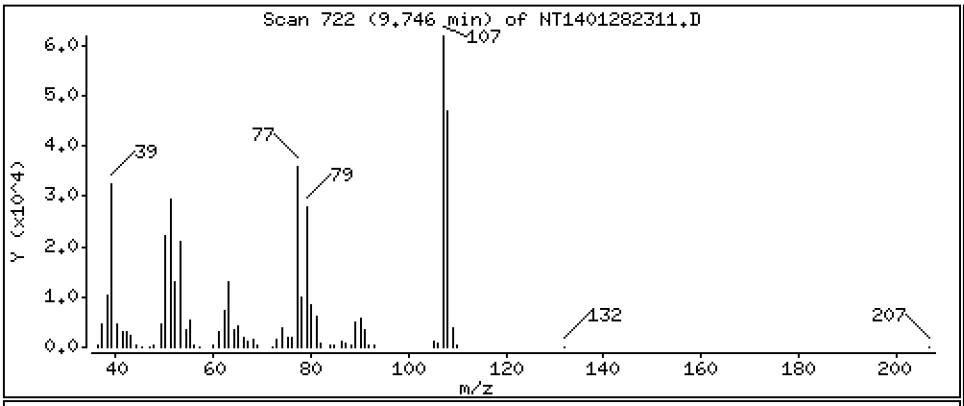
Operator: JGR

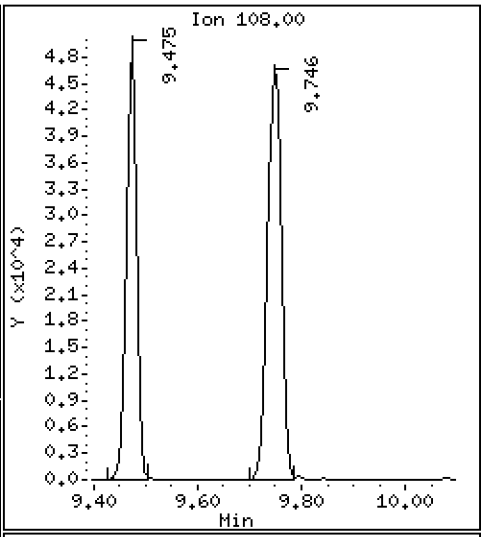
Column phase: ZB-5msi

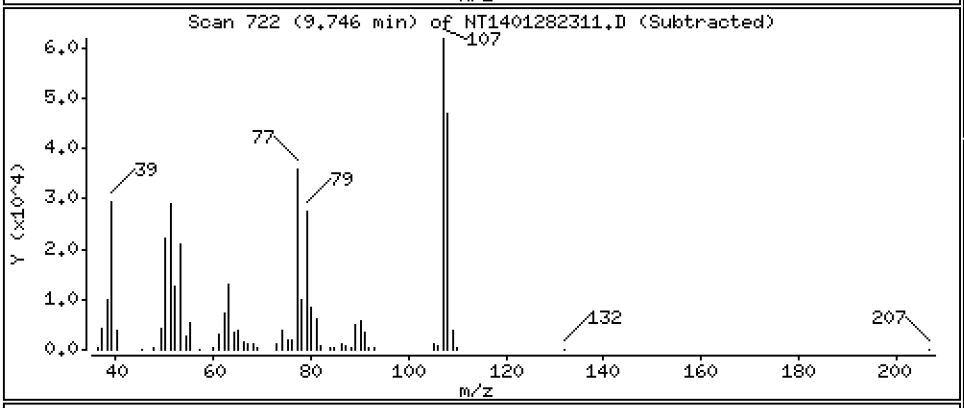
Column diameter: 0.25

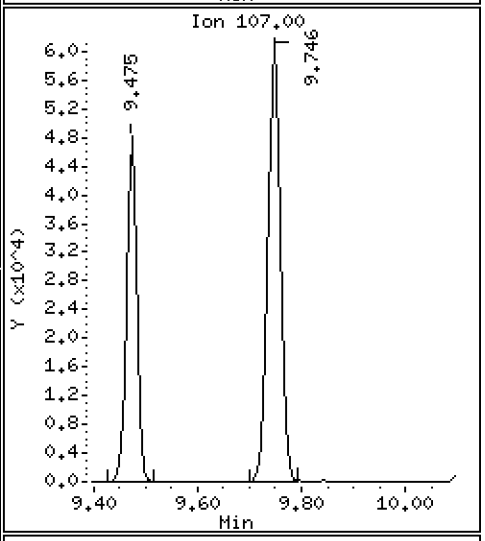
15 4-Methylphenol

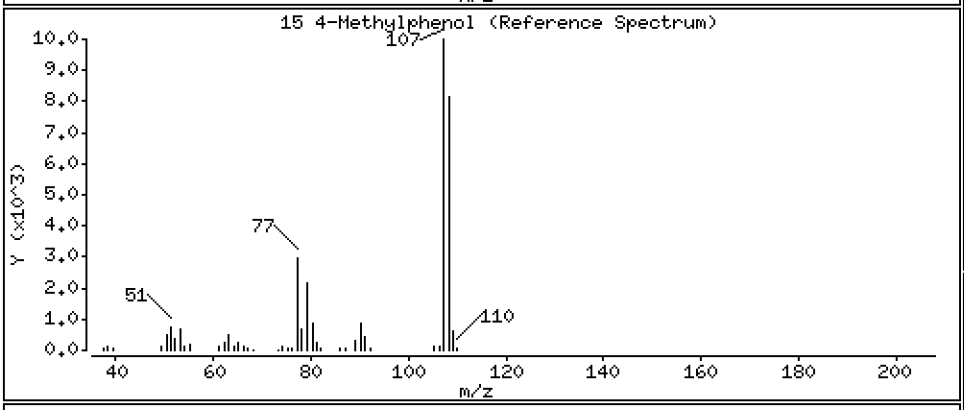
Concentration: 3.427 ug/mL

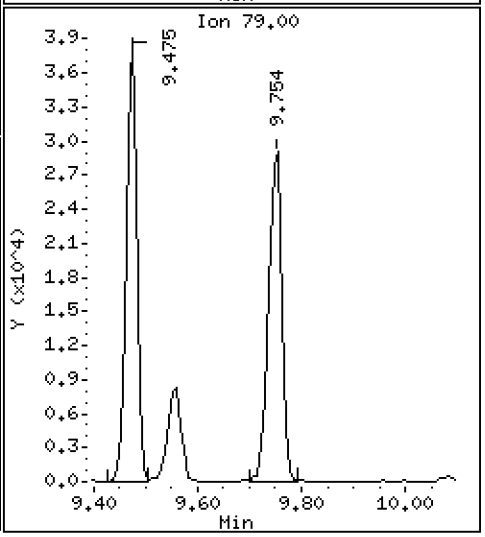


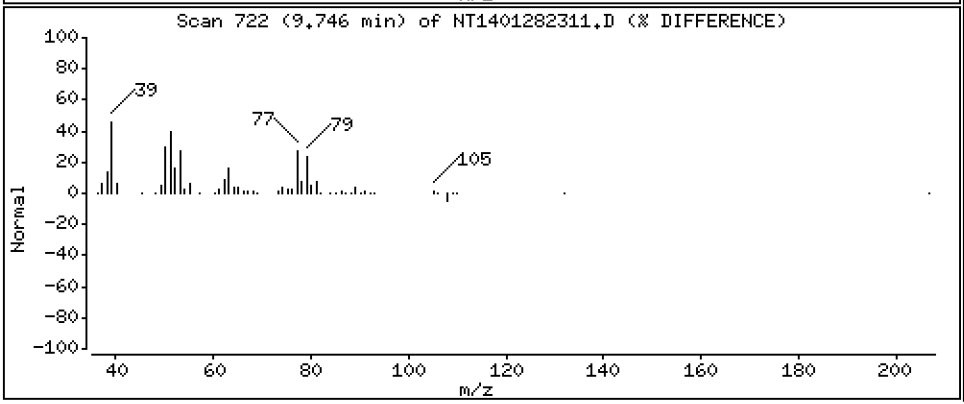












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

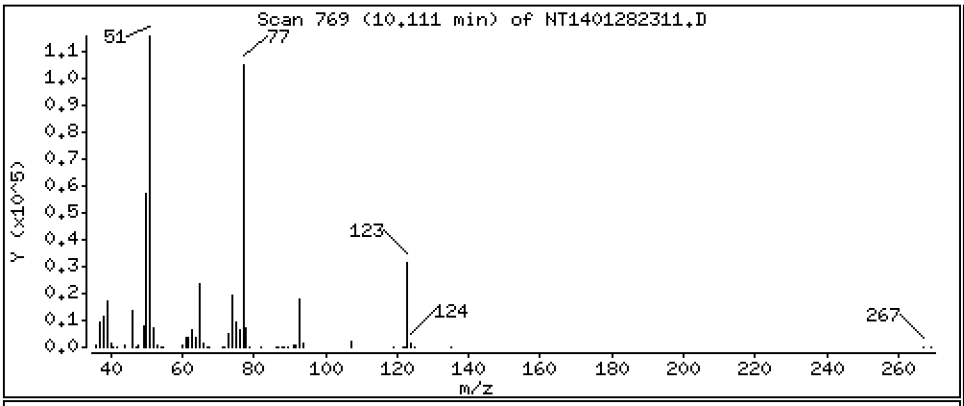
Operator: JGR

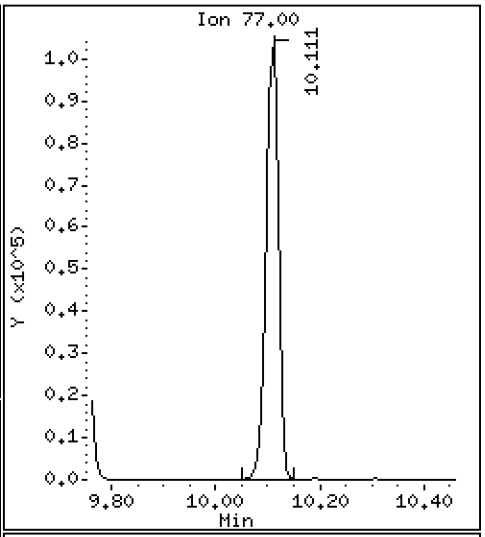
Column phase: ZB-5msi

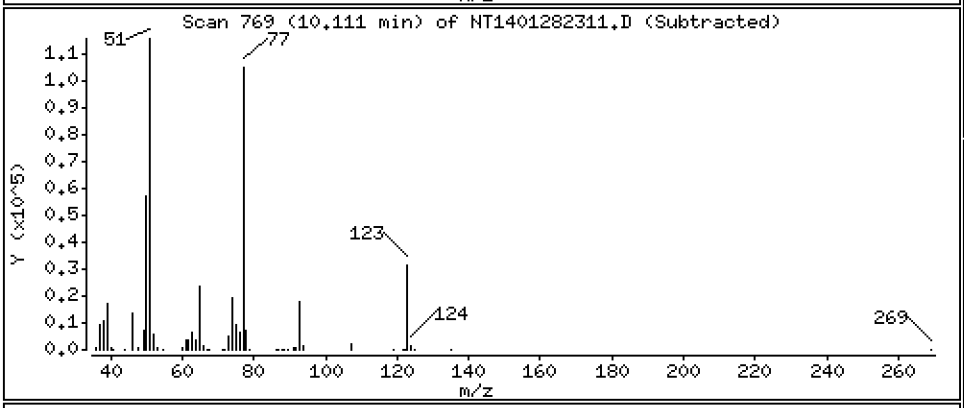
Column diameter: 0.25

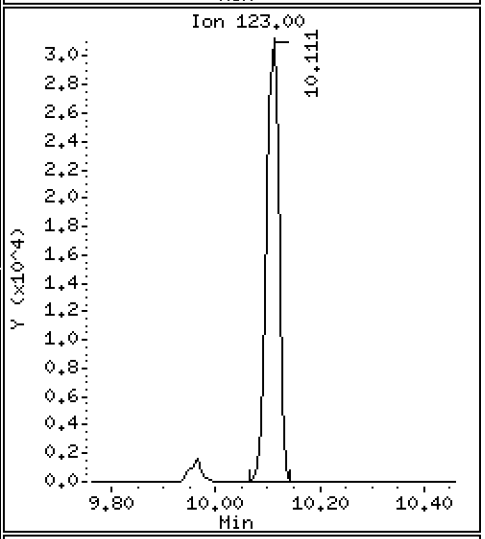
19 Nitrobenzene

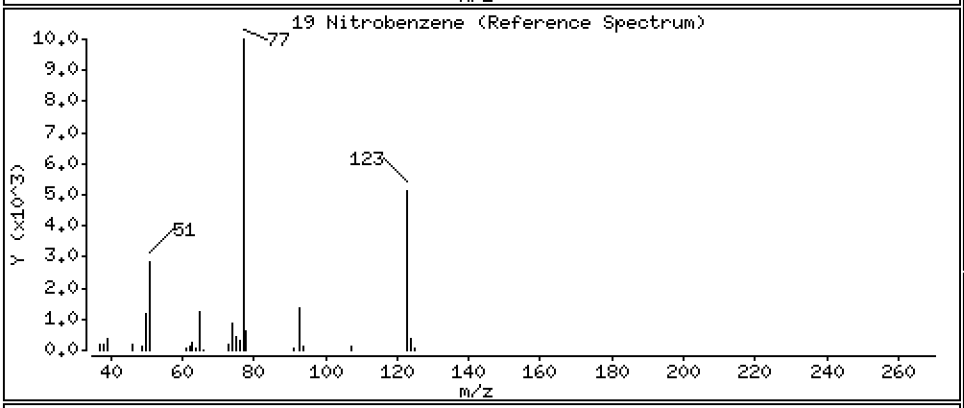
Concentration: 4.913 ug/mL

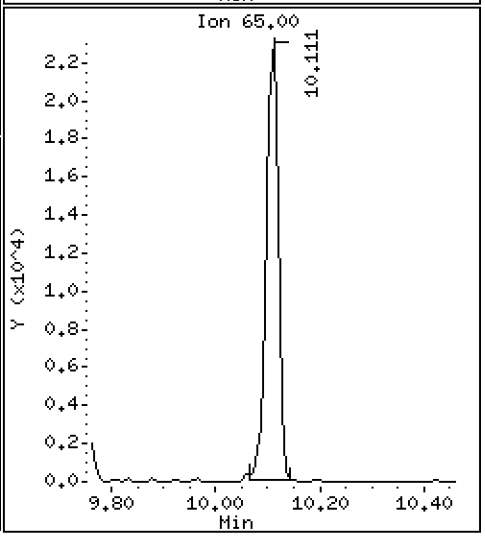


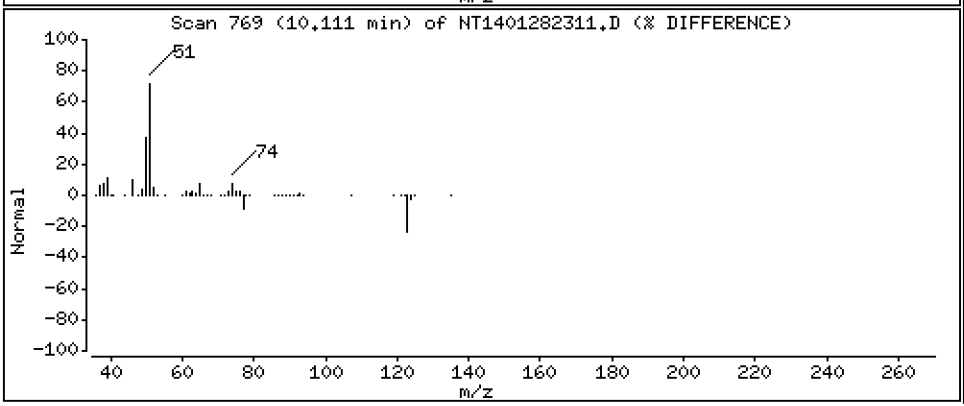












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

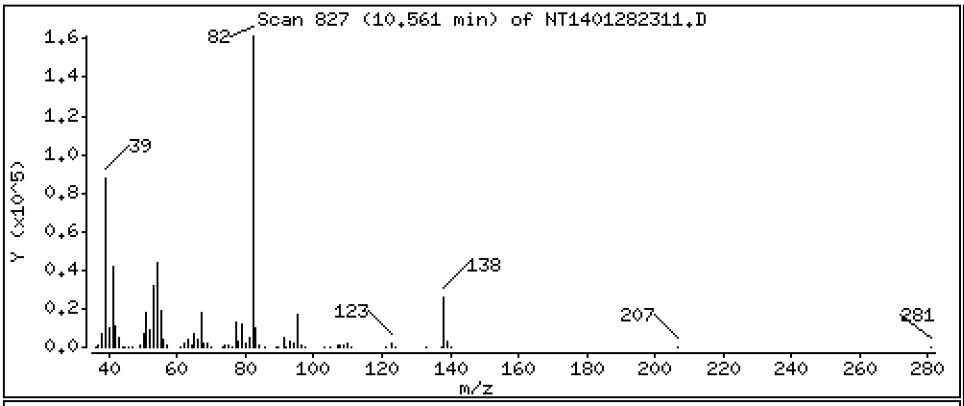
Operator: JGR

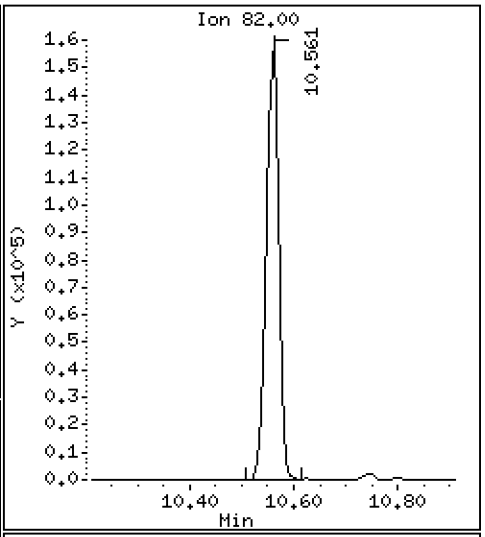
Column phase: ZB-5msi

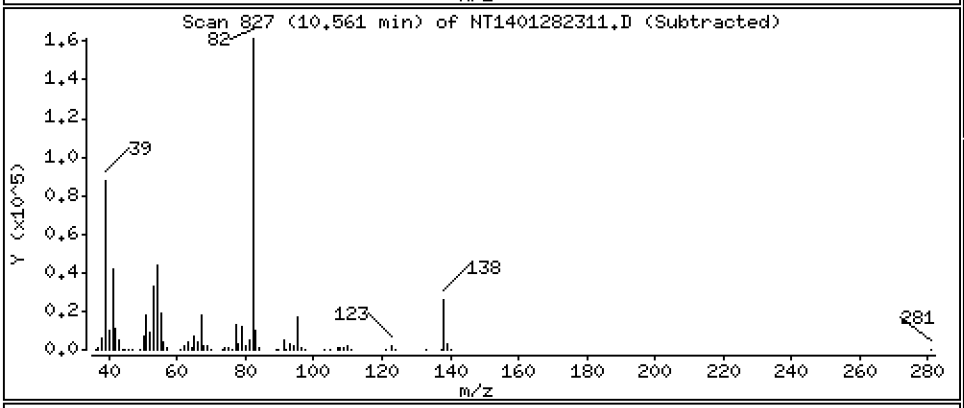
Column diameter: 0.25

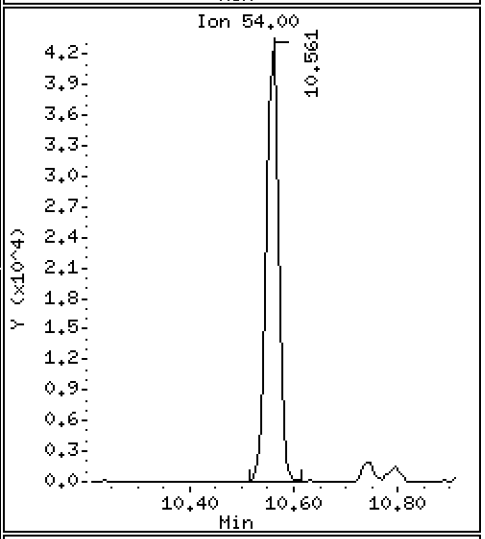
20 Isophorone

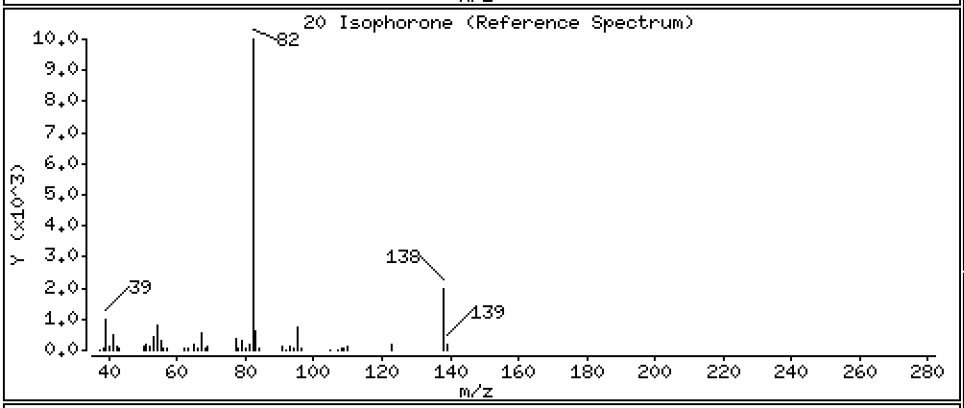
Concentration: 6.593 ug/mL

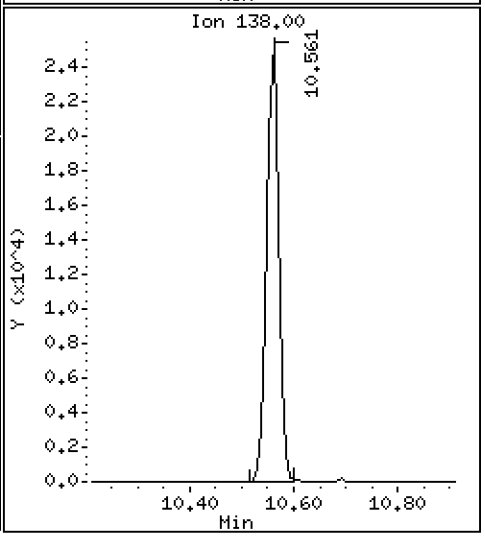


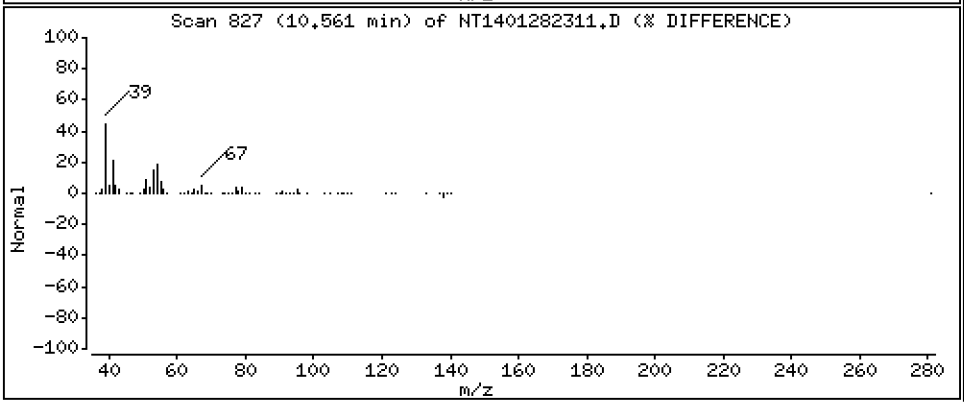












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

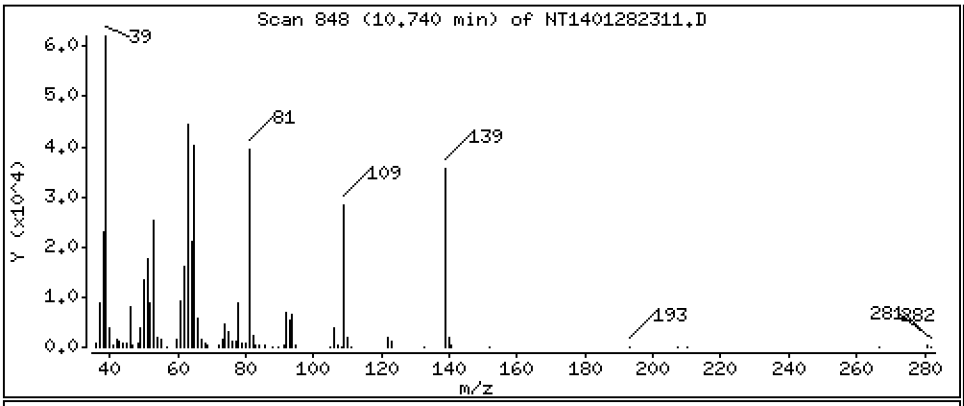
Operator: JGR

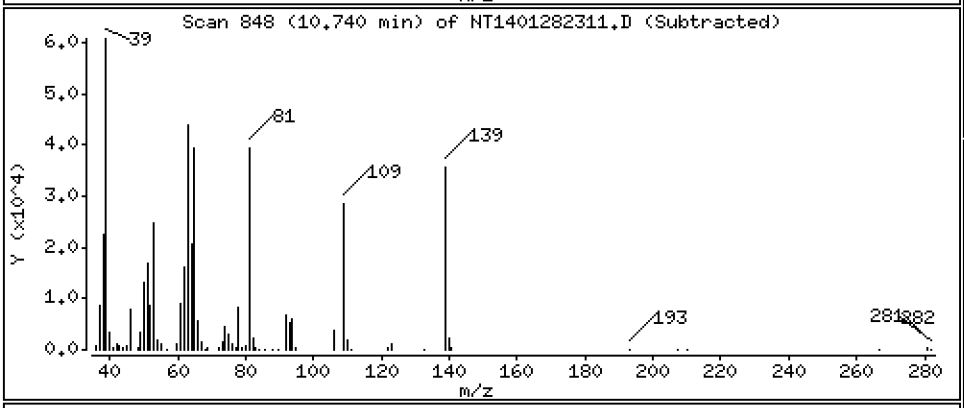
Column phase: ZB-5msi

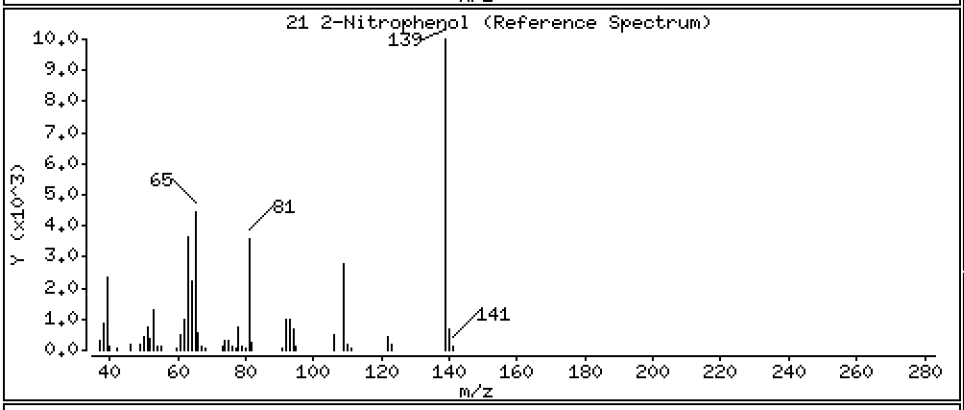
Column diameter: 0.25

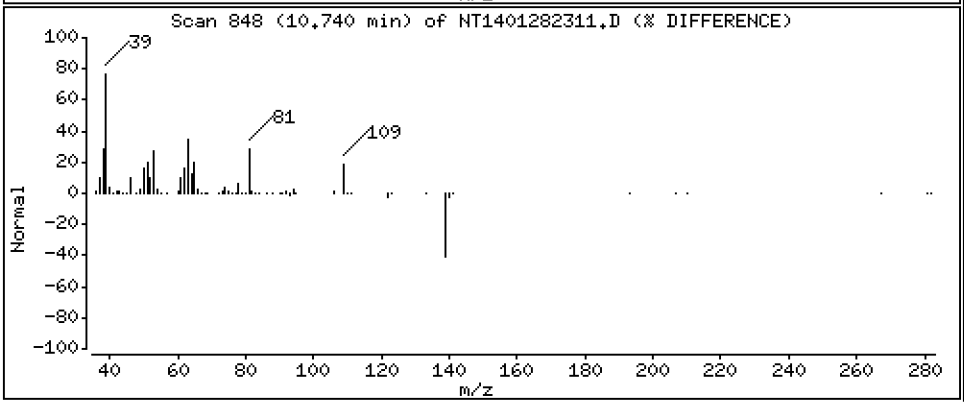
21 2-Nitrophenol

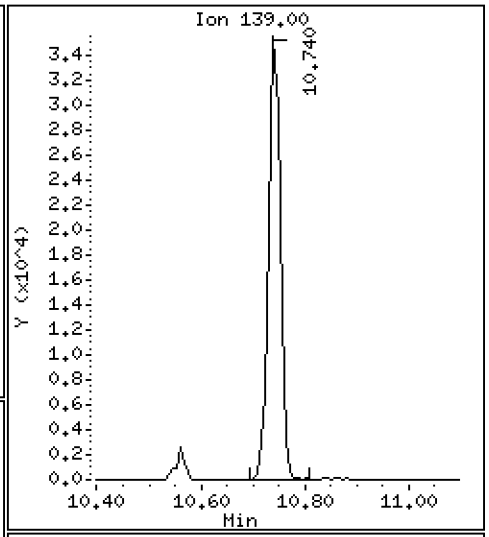
Concentration: 4.134 ug/mL

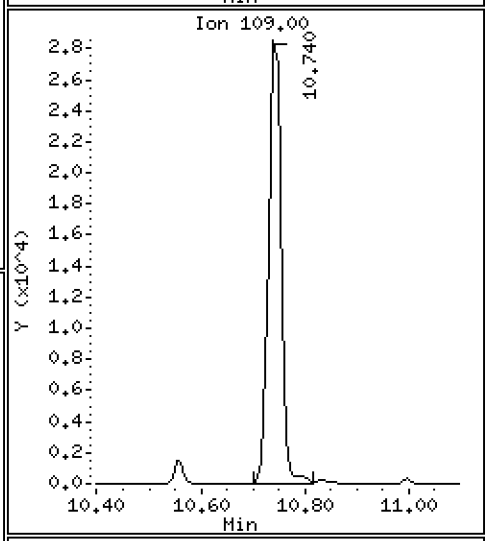


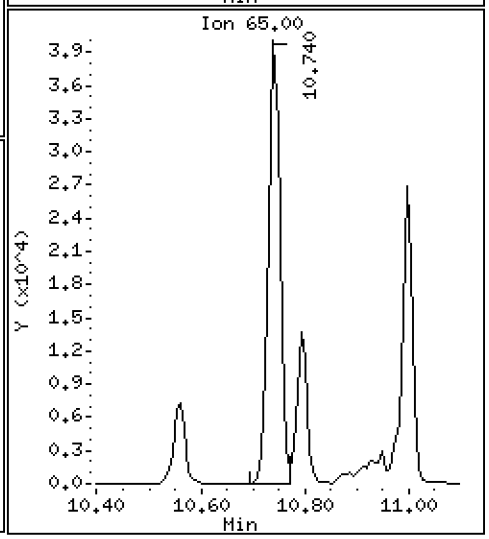












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

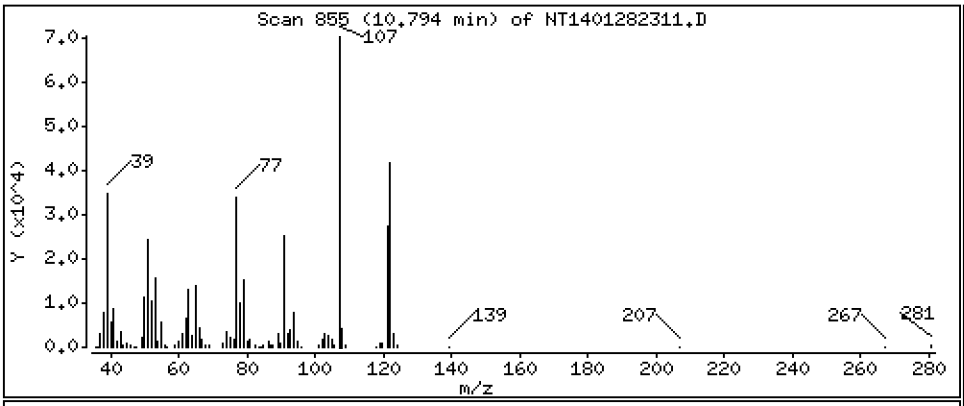
Operator: JGR

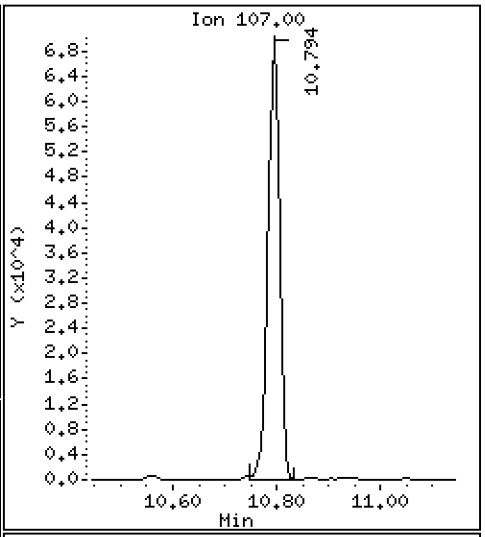
Column phase: ZB-5msi

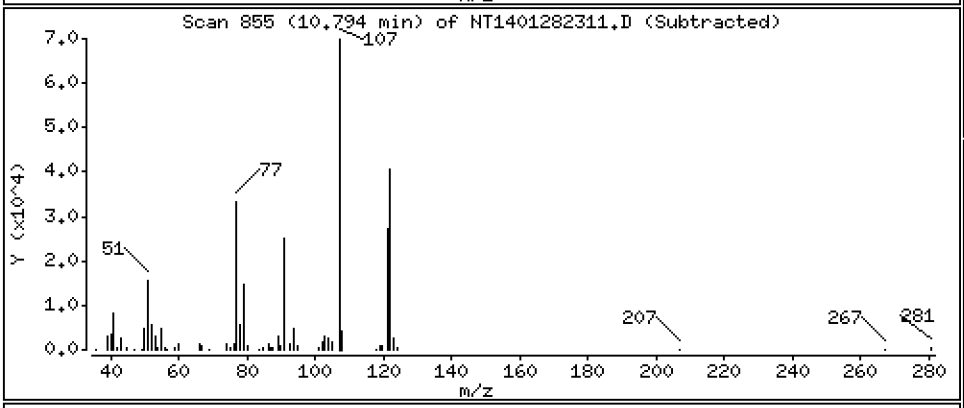
Column diameter: 0.25

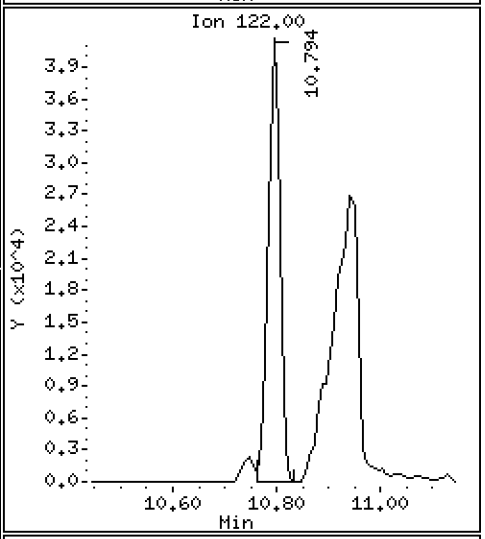
22 2,4-Dimethylphenol

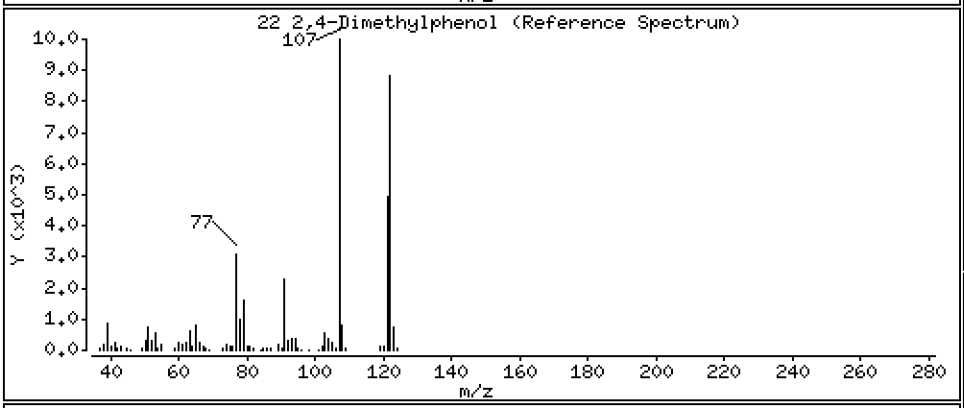
Concentration: 3.034 ug/mL

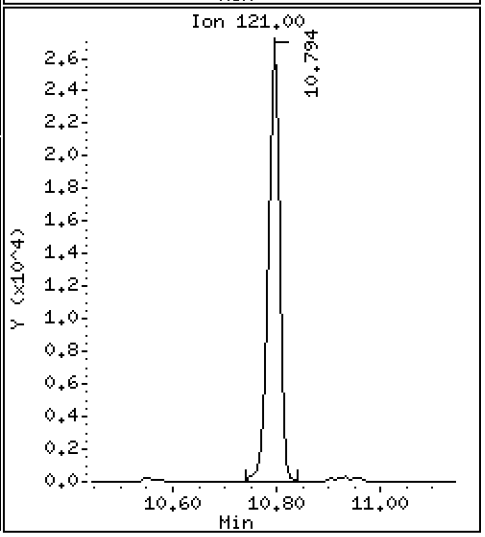


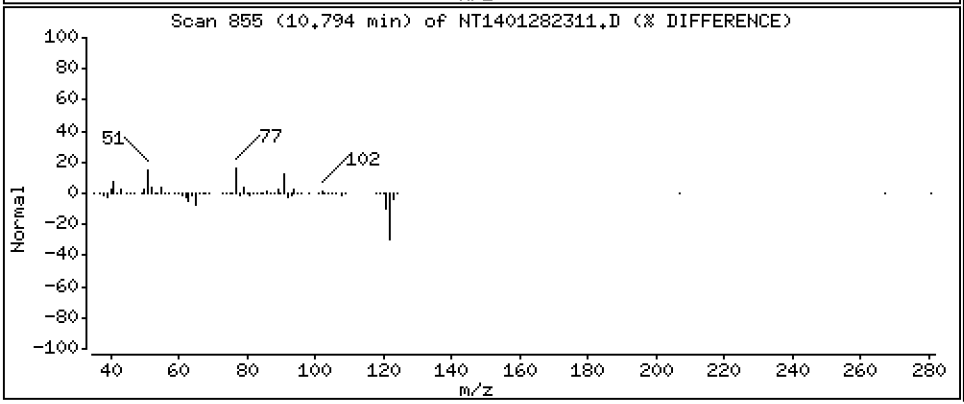












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

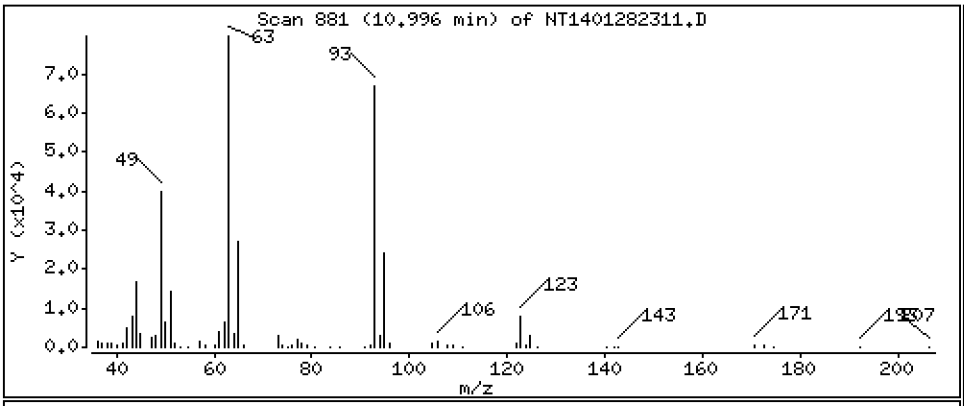
Operator: JGR

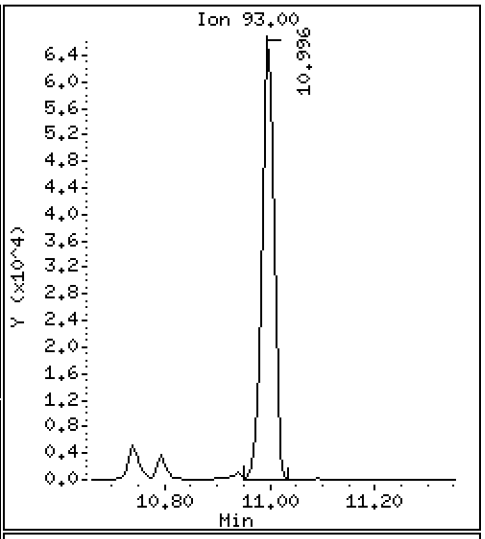
Column phase: ZB-5msi

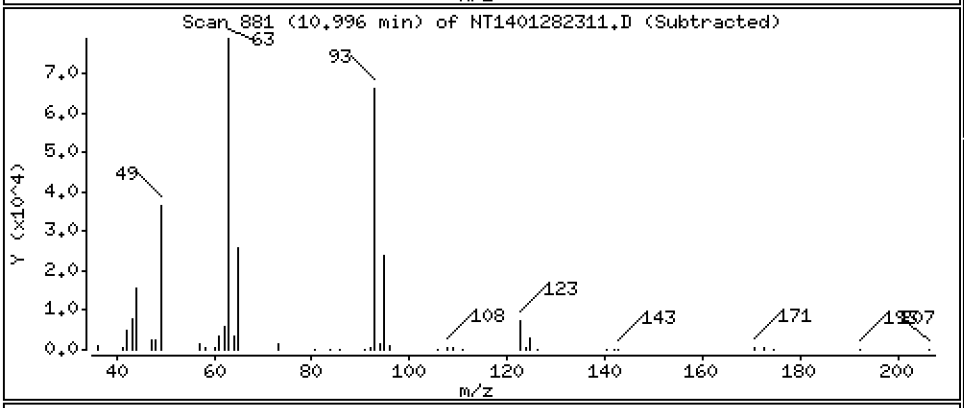
Column diameter: 0.25

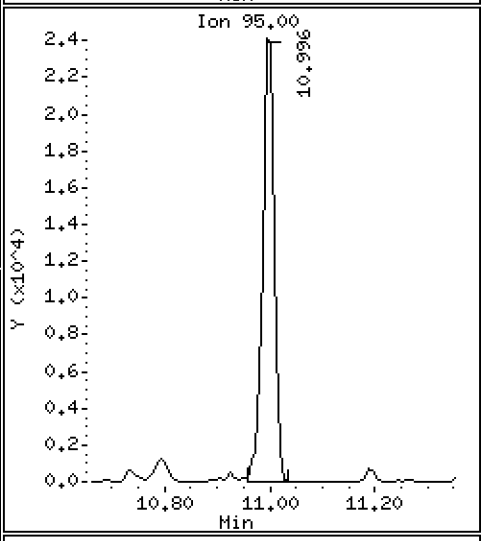
23 Bis(2-Chloroethoxy)methane

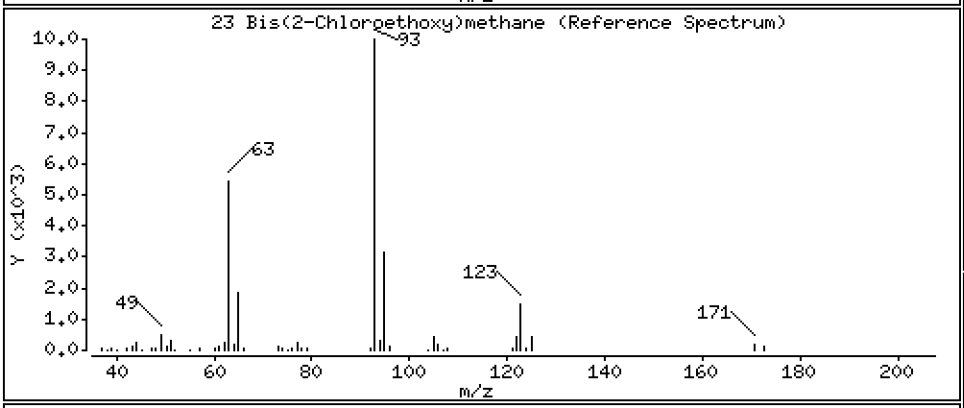
Concentration: 5.454 ug/mL

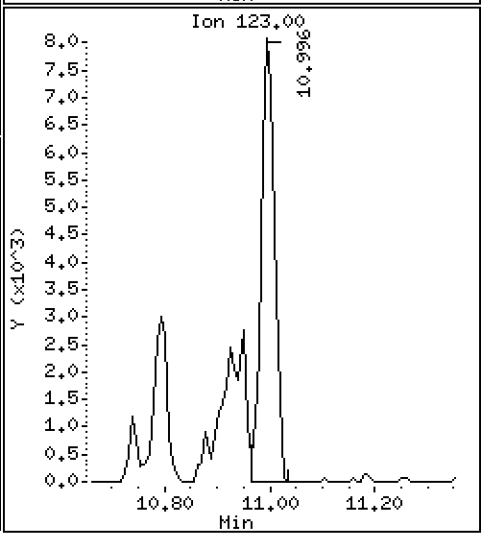


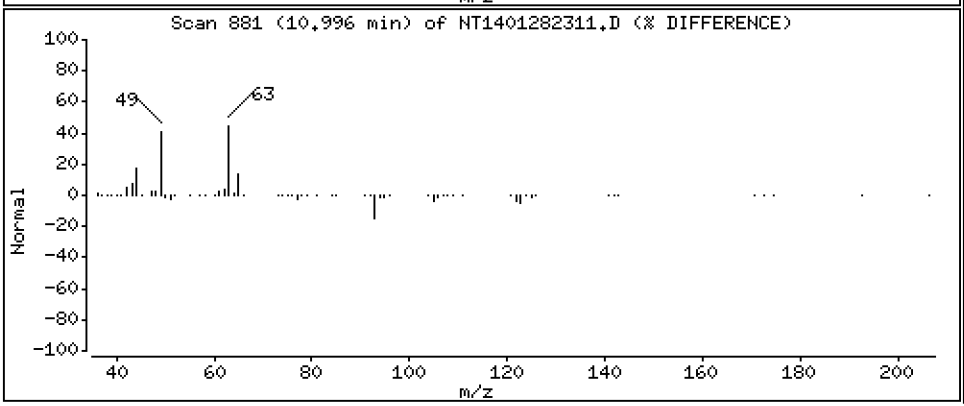












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

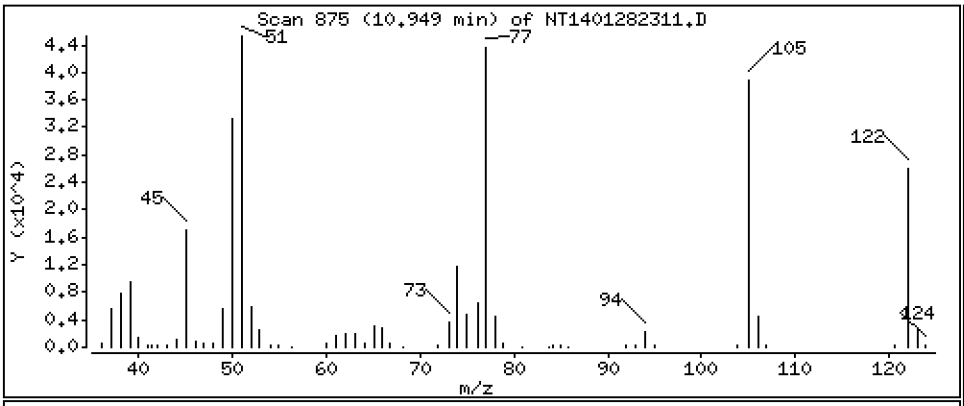
Operator: JGR

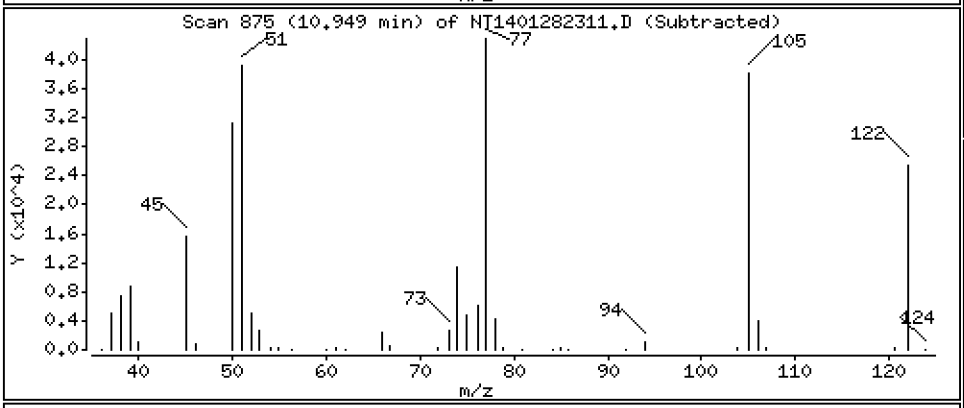
Column phase: ZB-5msi

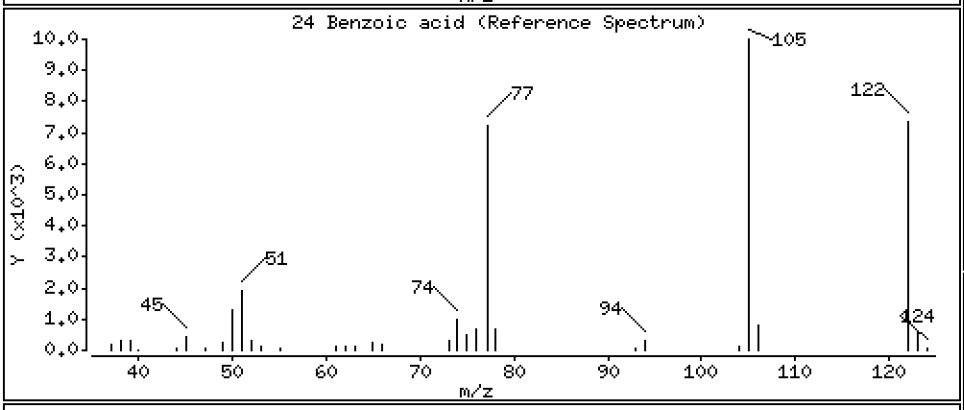
Column diameter: 0.25

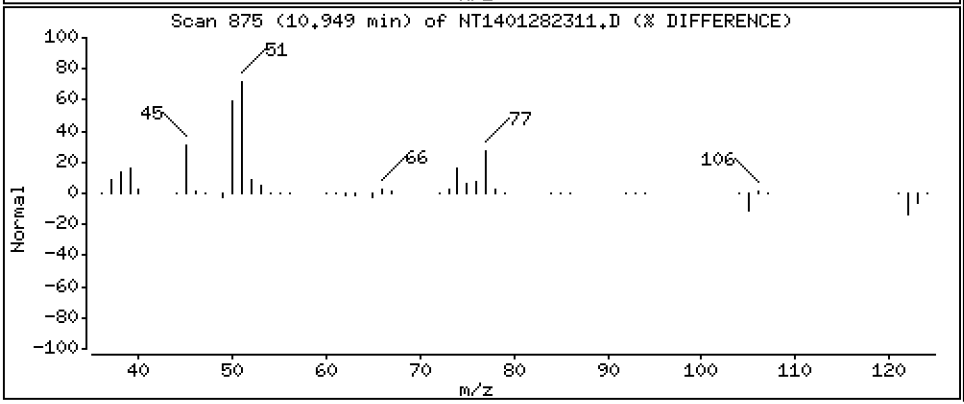
24 Benzoic acid

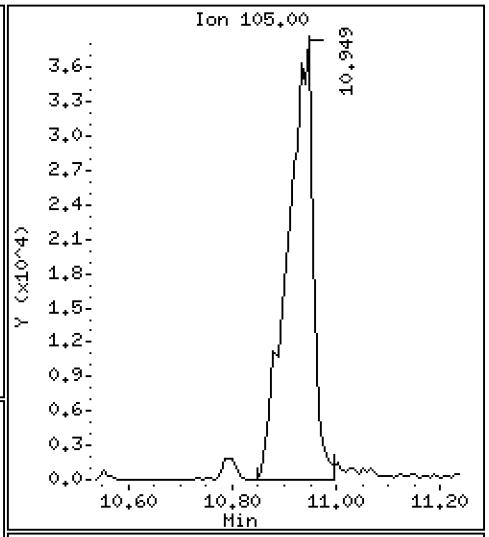
Concentration: 6.669 ug/mL

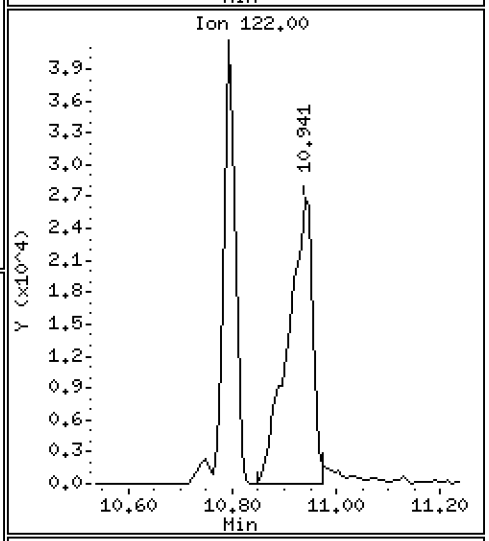


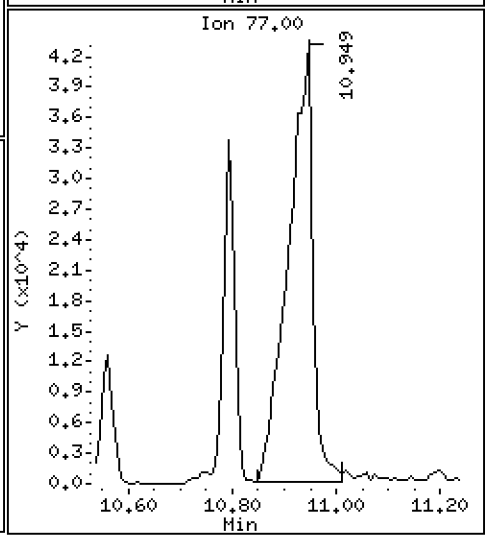












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

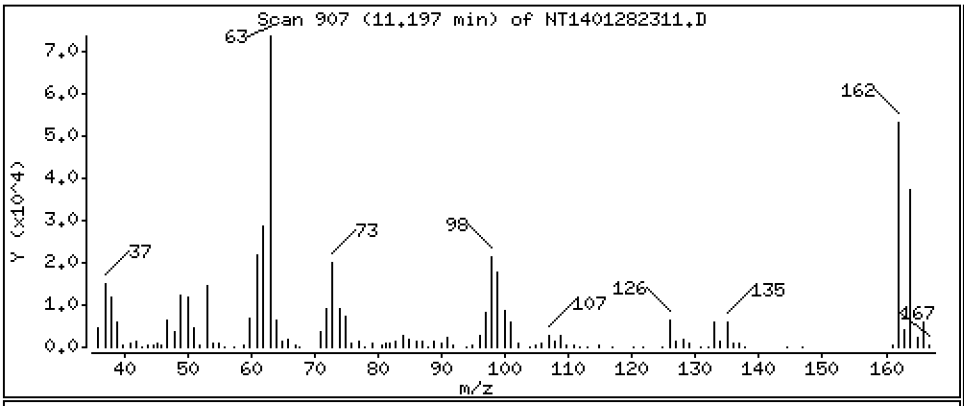
Operator: JGR

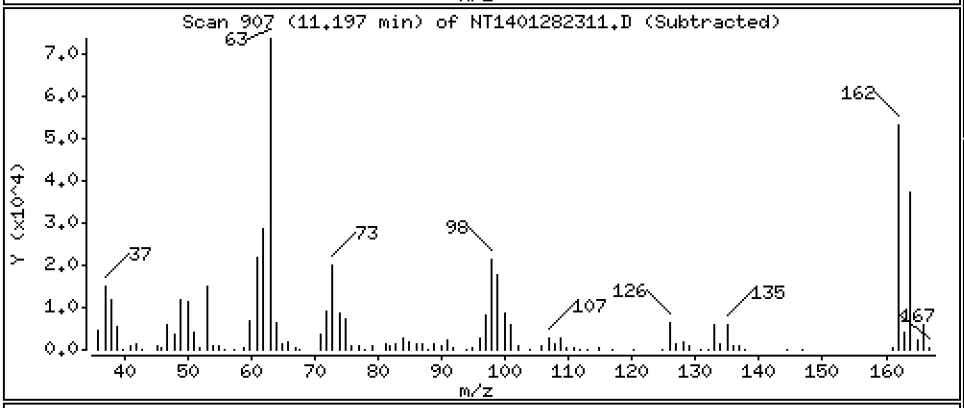
Column phase: ZB-5msi

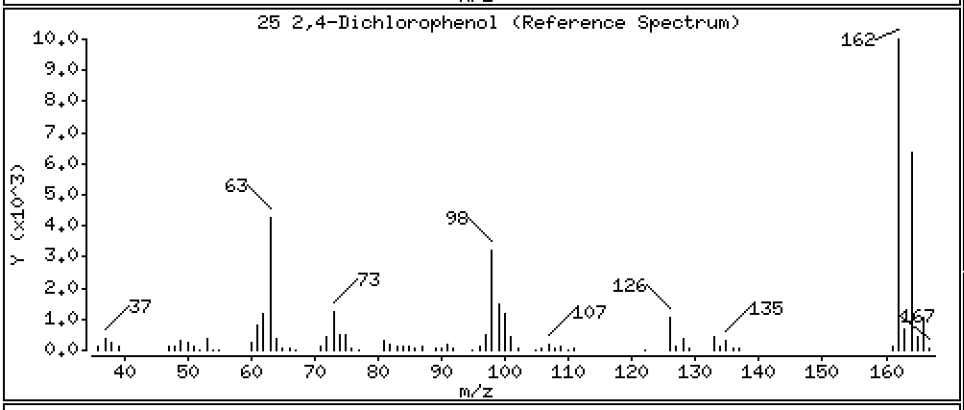
Column diameter: 0.25

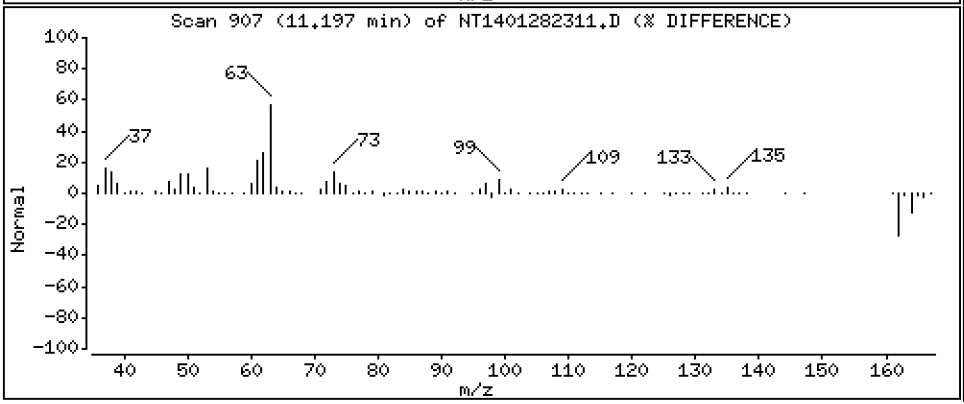
25 2,4-Dichlorophenol

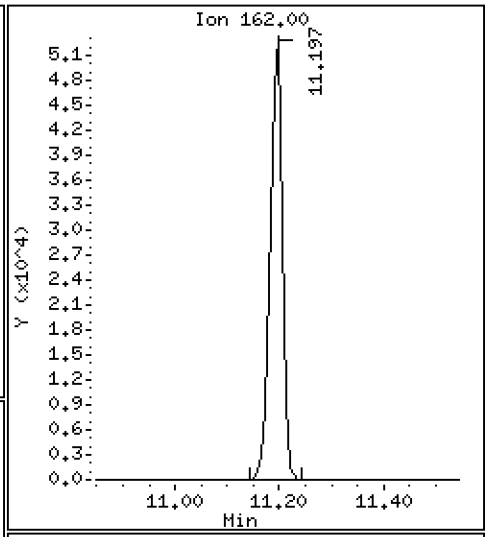
Concentration: 3.997 ug/mL

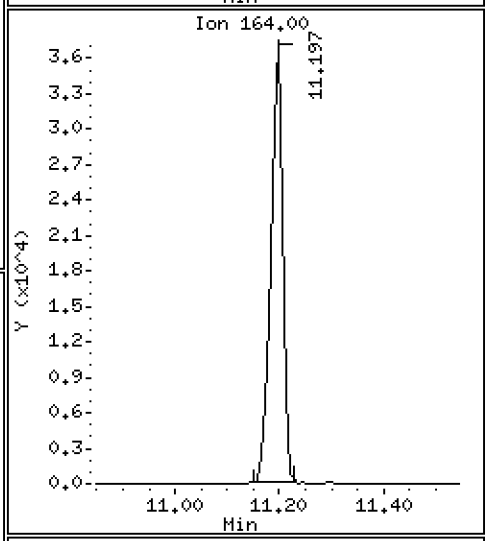


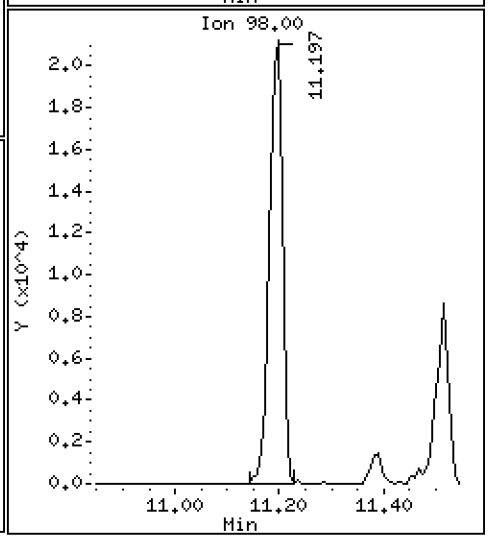












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

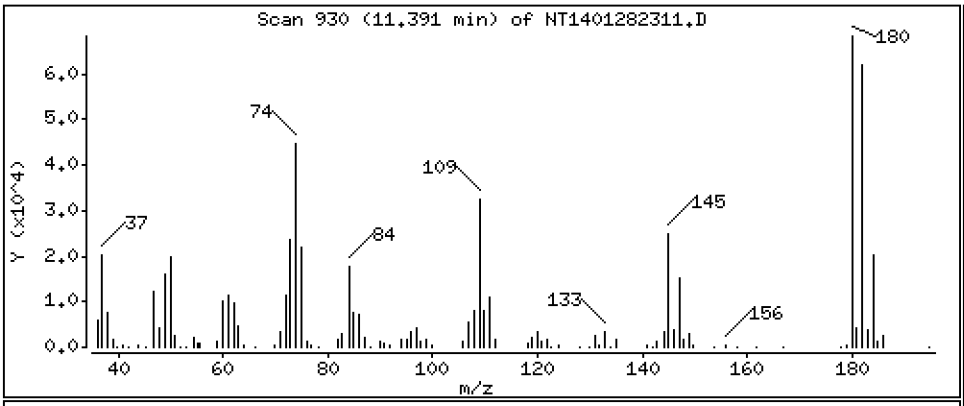
Operator: JGR

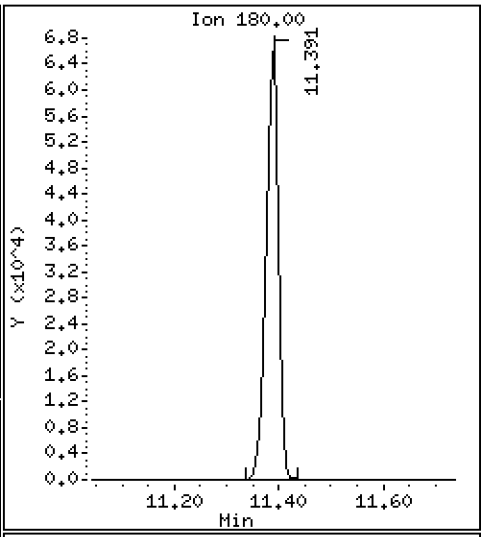
Column phase: ZB-5msi

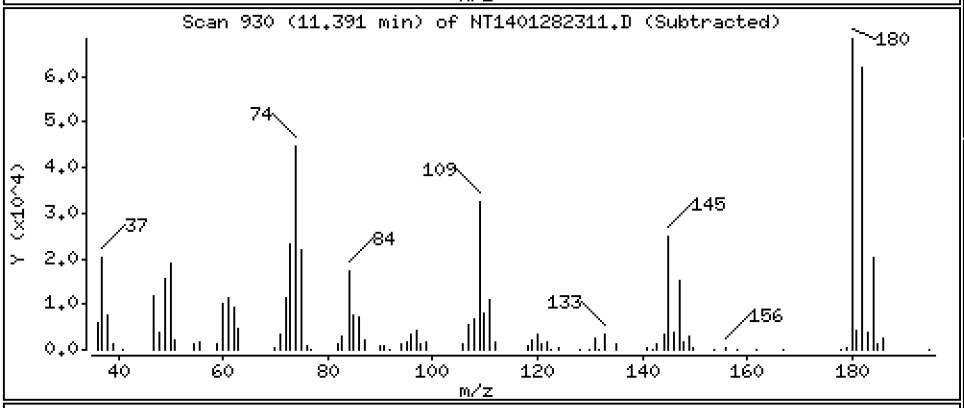
Column diameter: 0.25

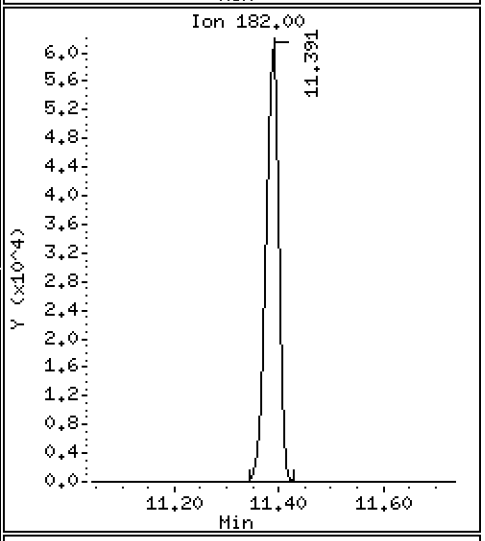
26 1,2,4-Trichlorobenzene

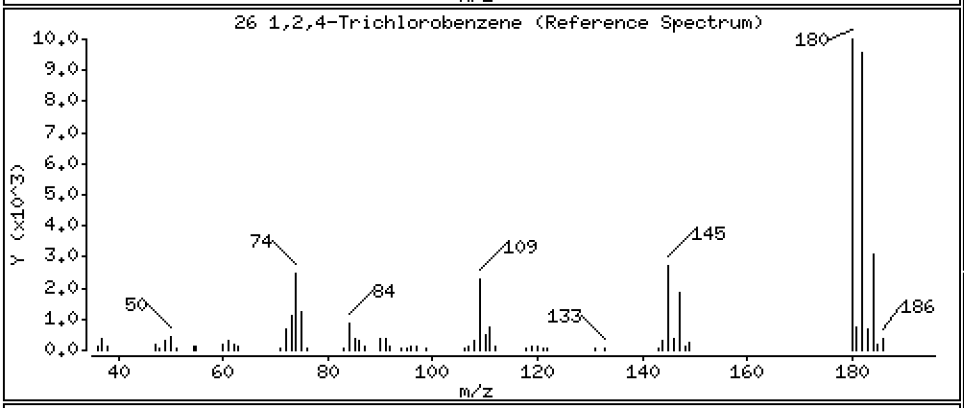
Concentration: 4.476 ug/mL

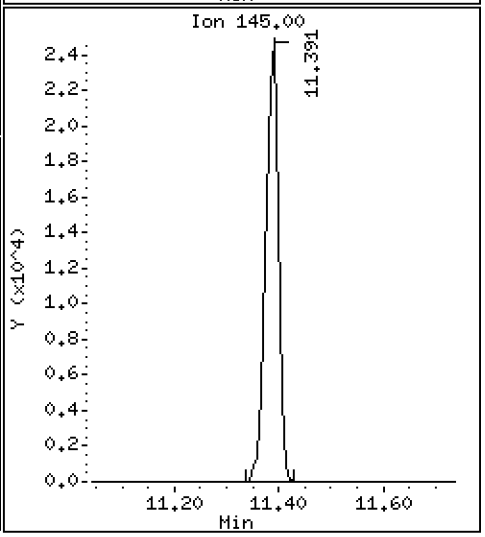


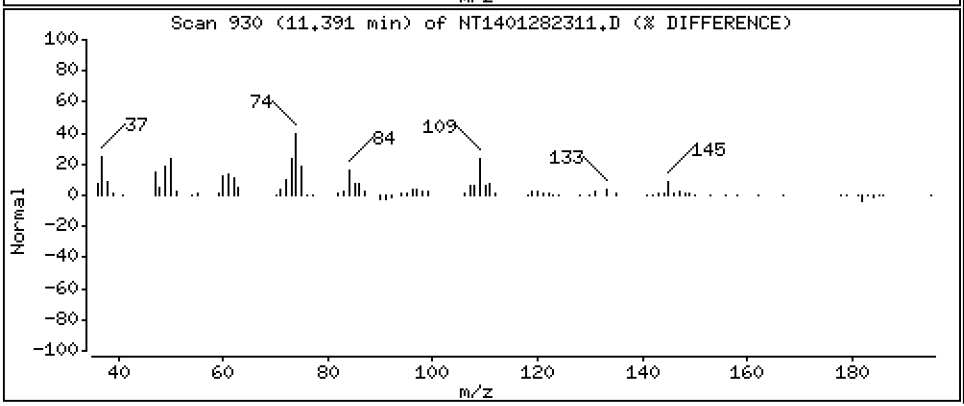












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

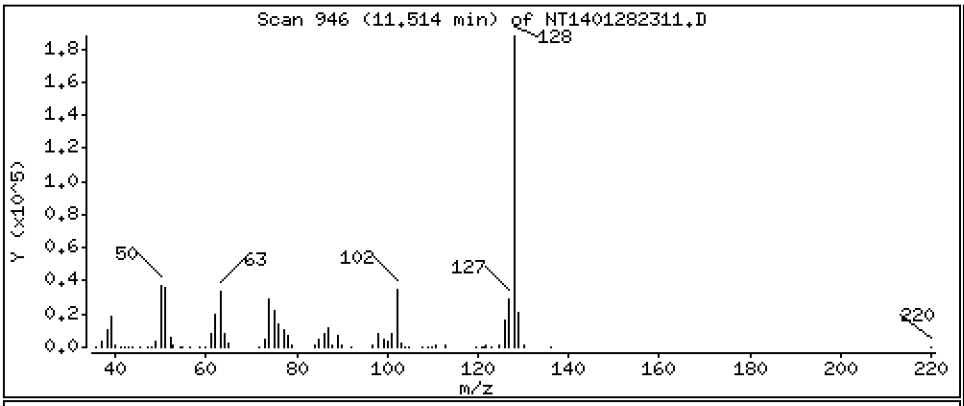
Operator: JGR

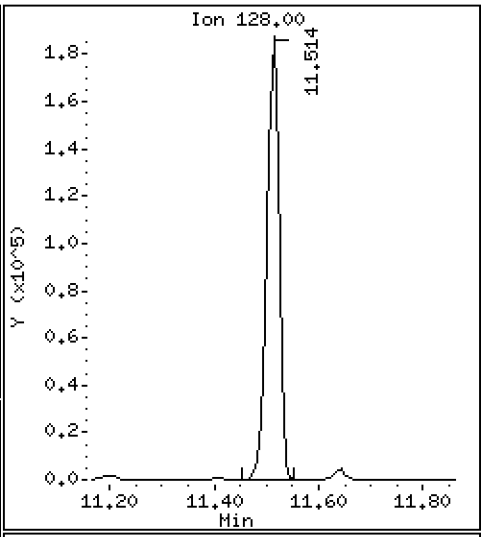
Column phase: ZB-5msi

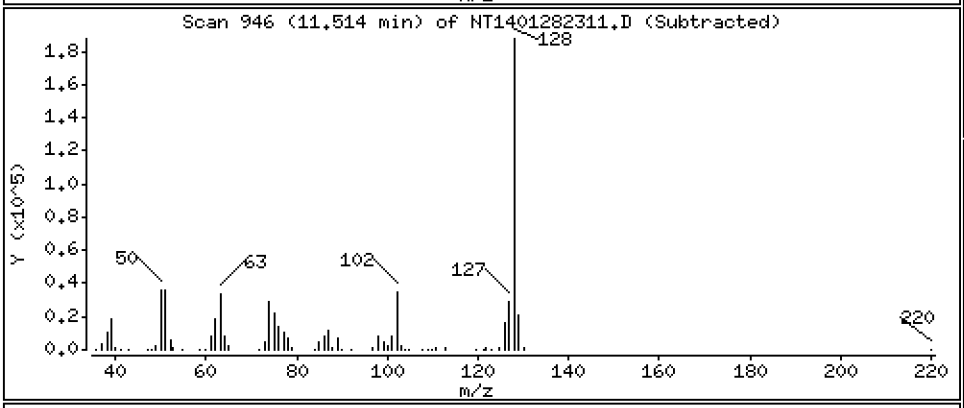
Column diameter: 0.25

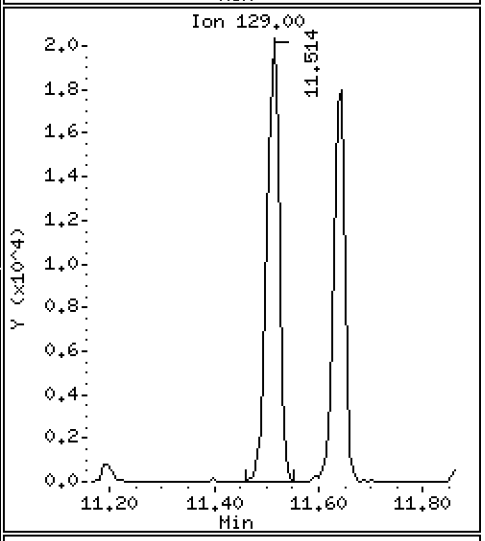
28 Naphthalene

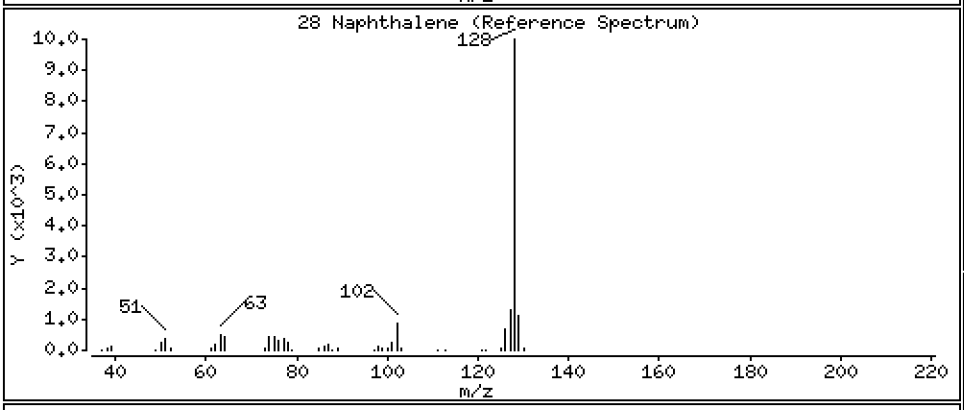
Concentration: 4.807 ug/mL

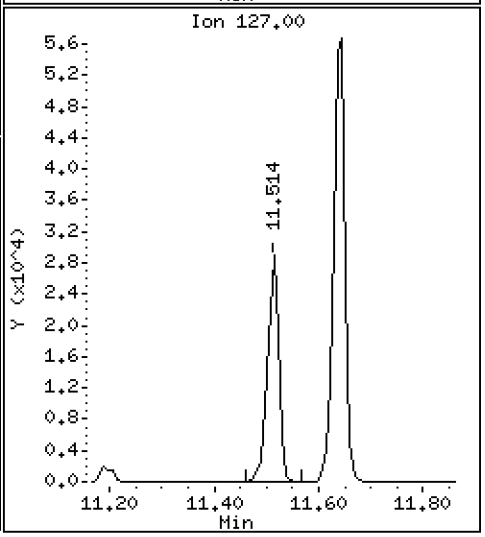


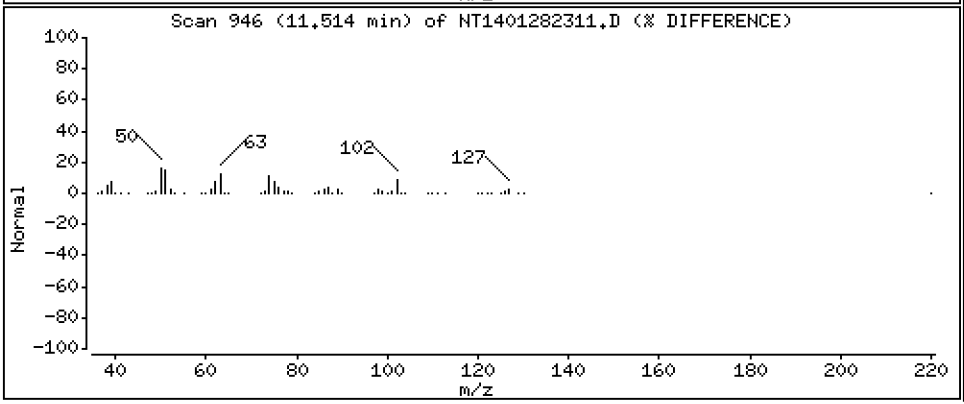












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

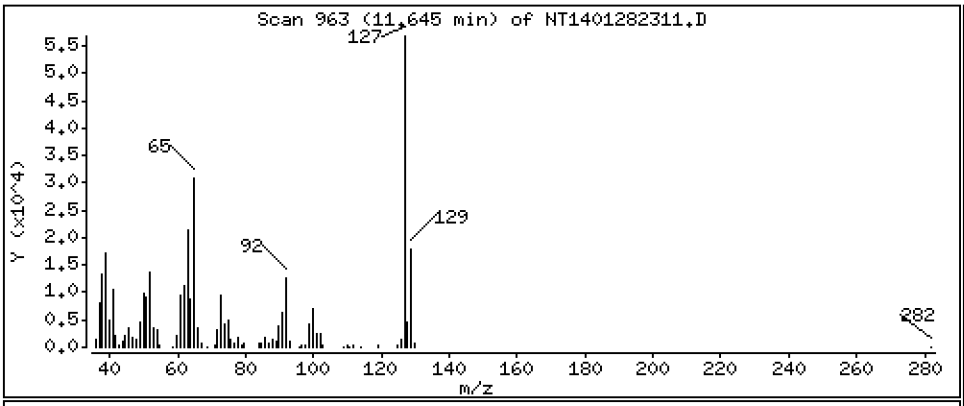
Operator: JGR

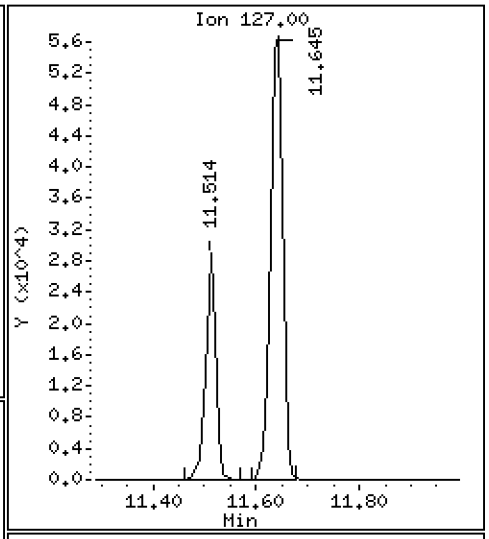
Column phase: ZB-5msi

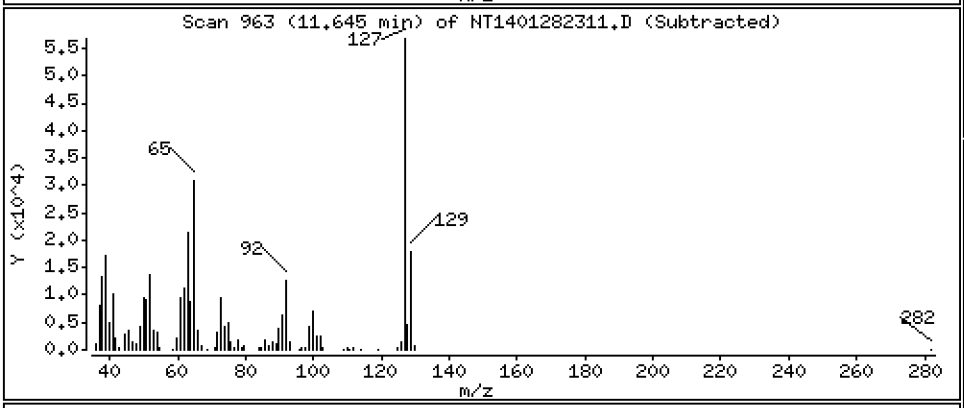
Column diameter: 0.25

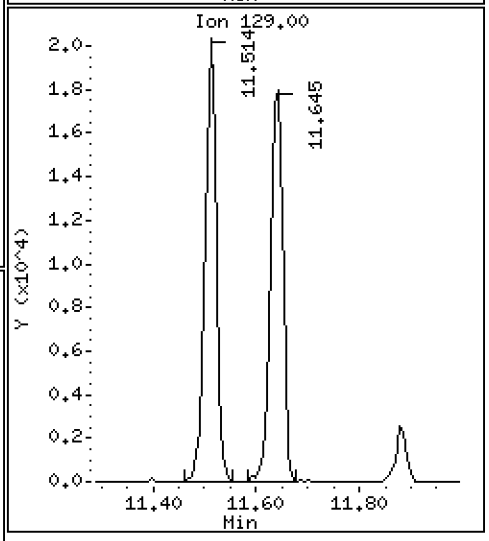
29 4-Chloroaniline

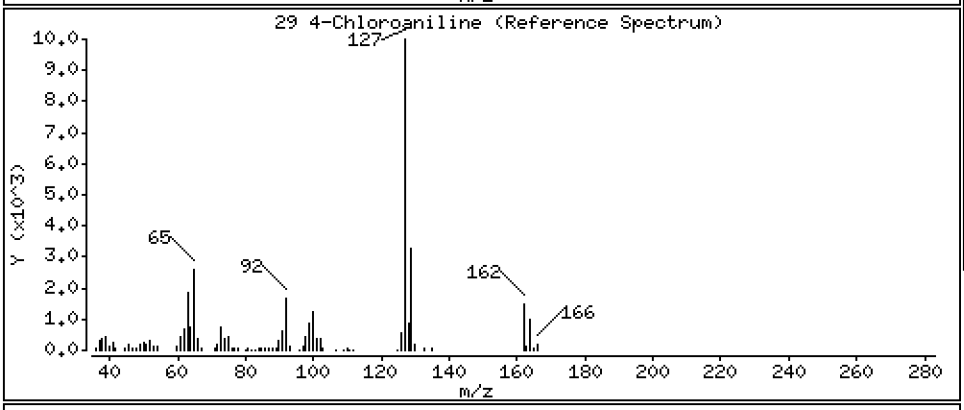
Concentration: 3.544 ug/mL

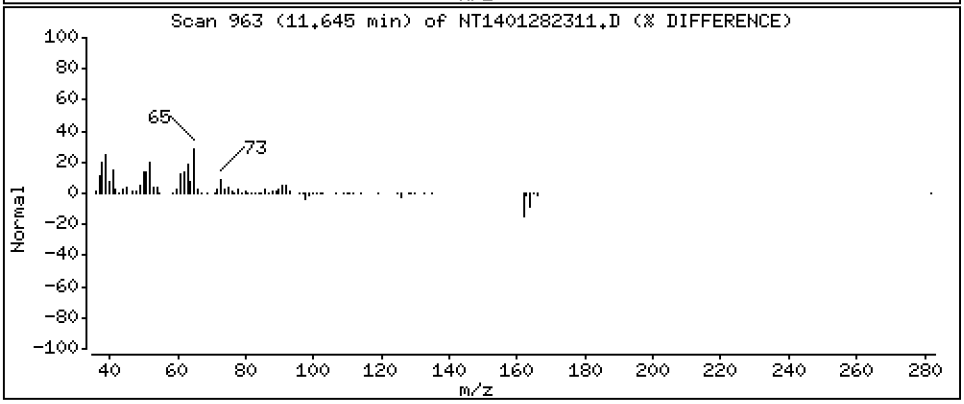












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

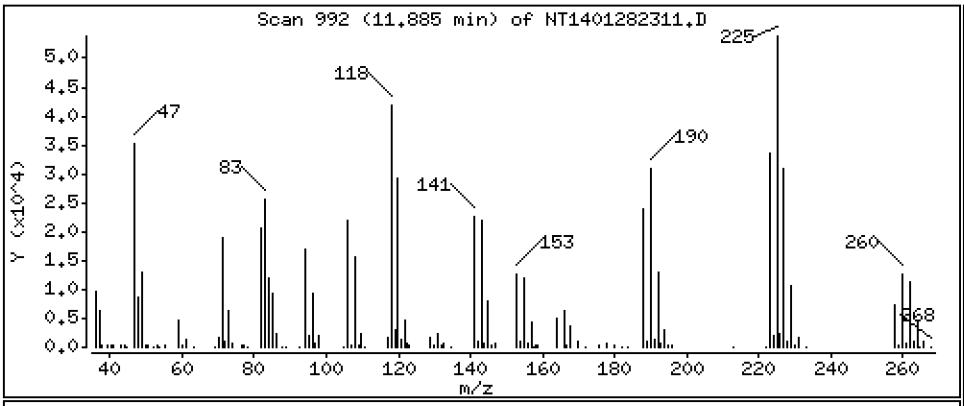
Operator: JGR

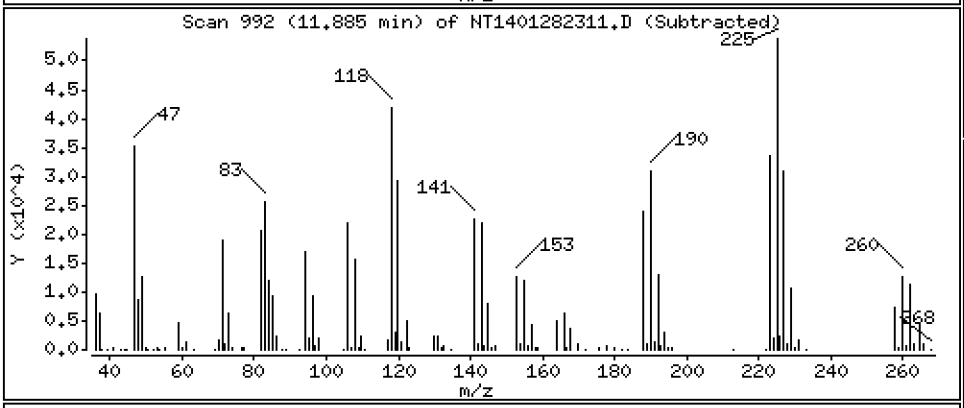
Column phase: ZB-5msi

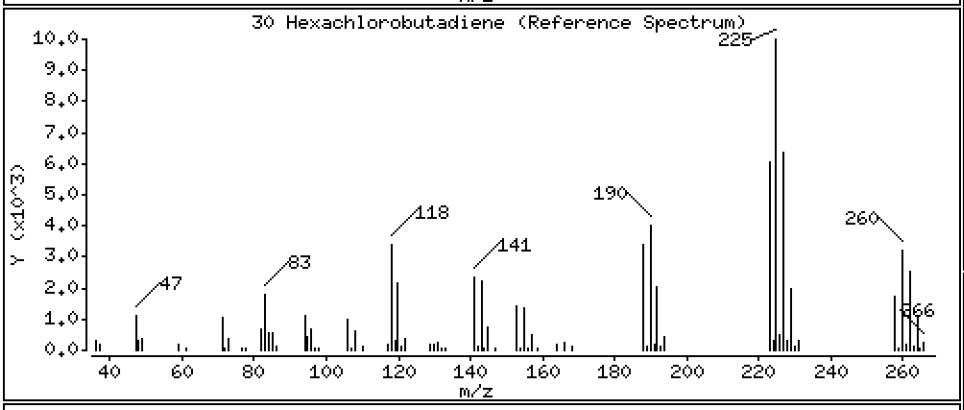
Column diameter: 0.25

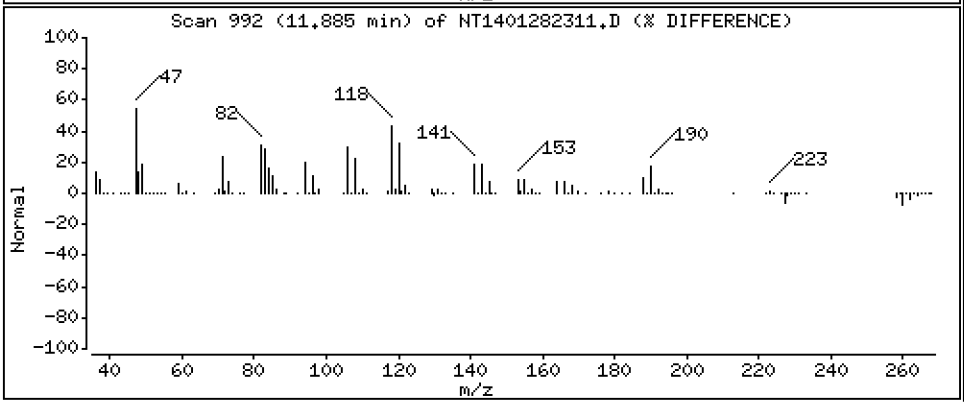
30 Hexachlorobutadiene

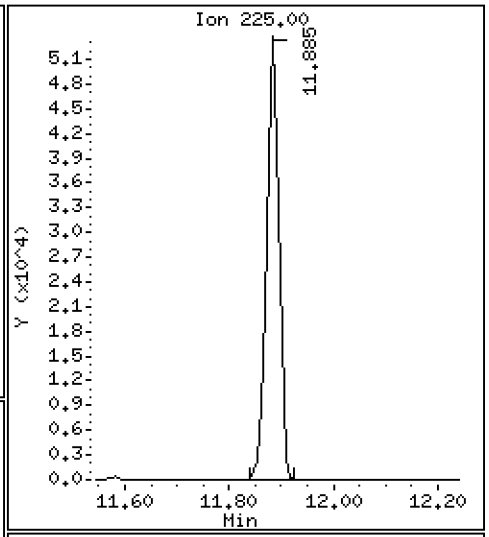
Concentration: 4.675 ug/mL

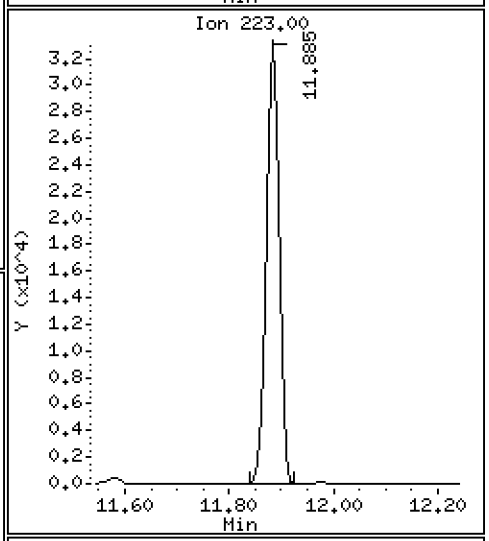


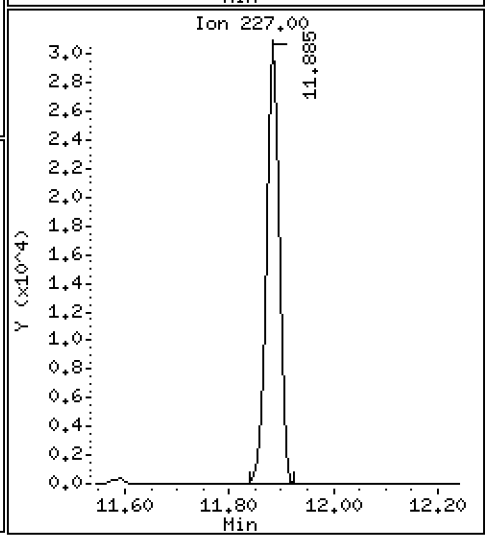












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

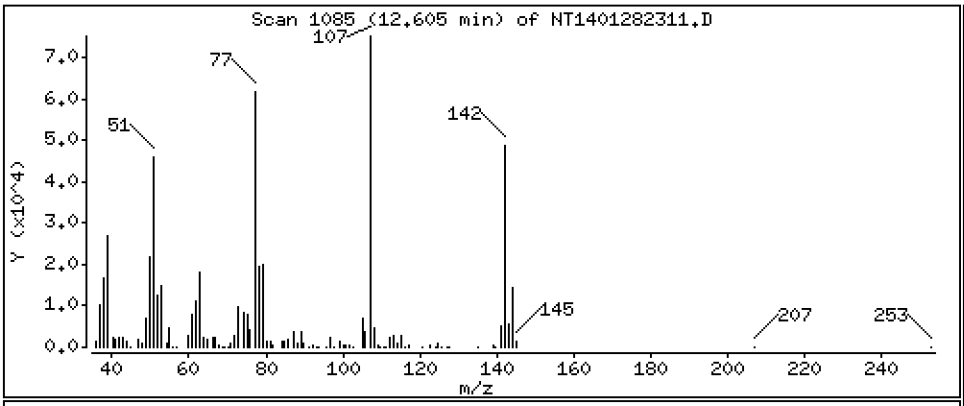
Operator: JGR

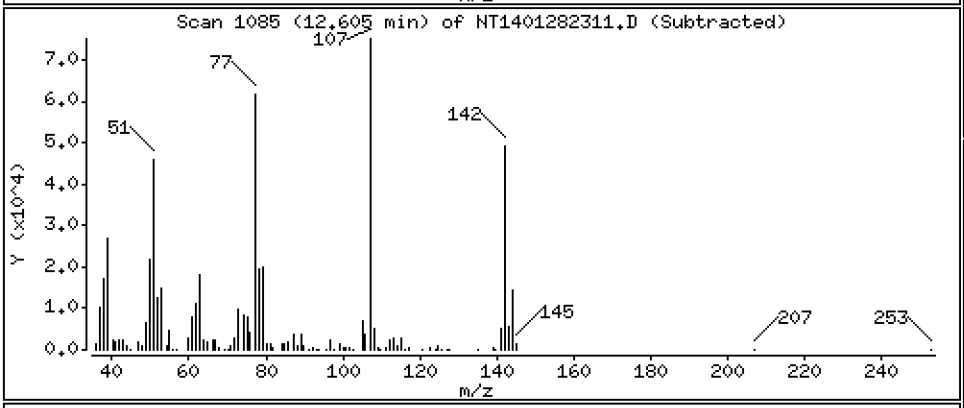
Column phase: ZB-5msi

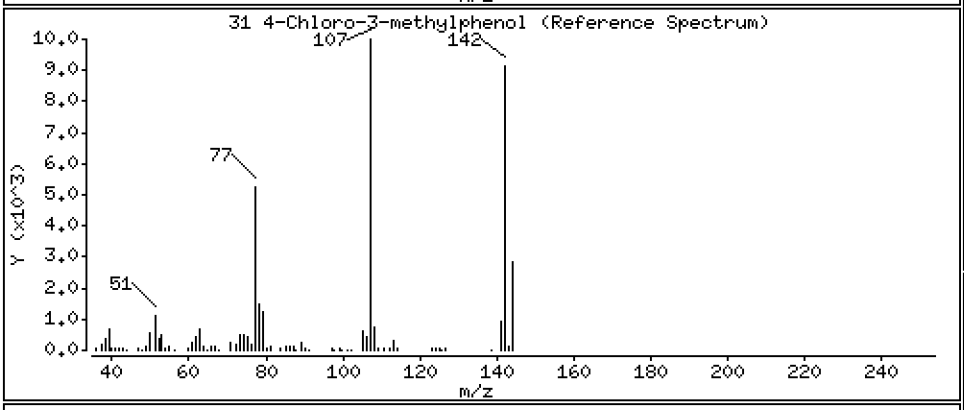
Column diameter: 0.25

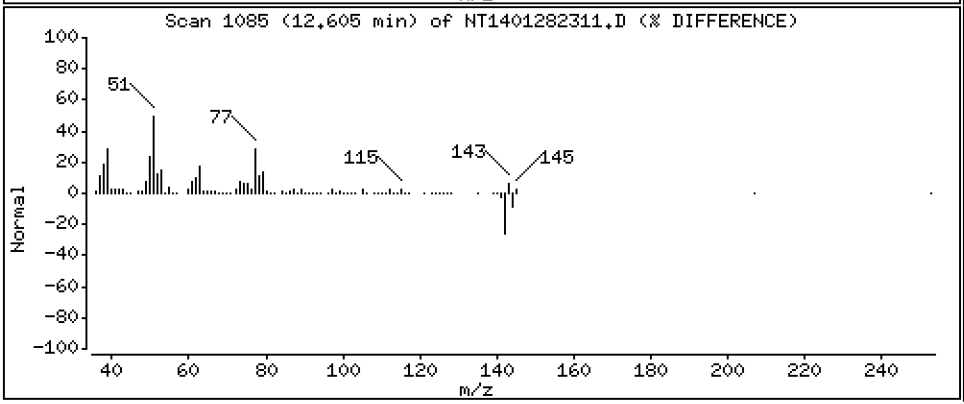
31 4-Chloro-3-methylphenol

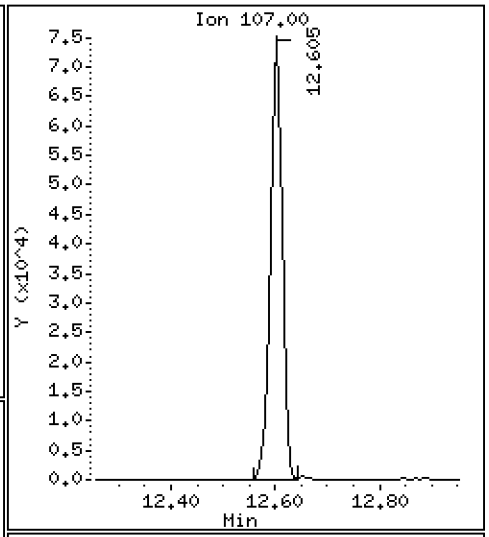
Concentration: 3.943 ug/mL

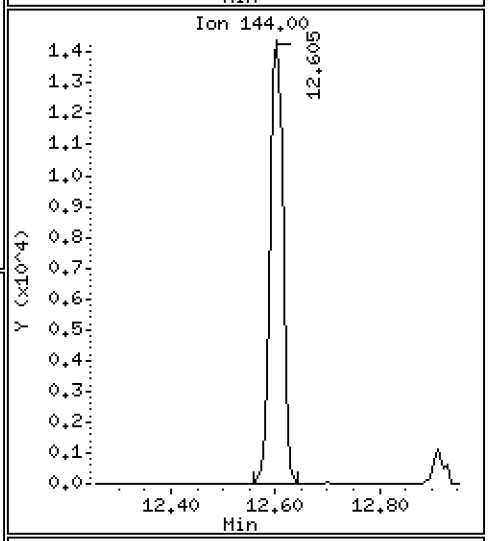


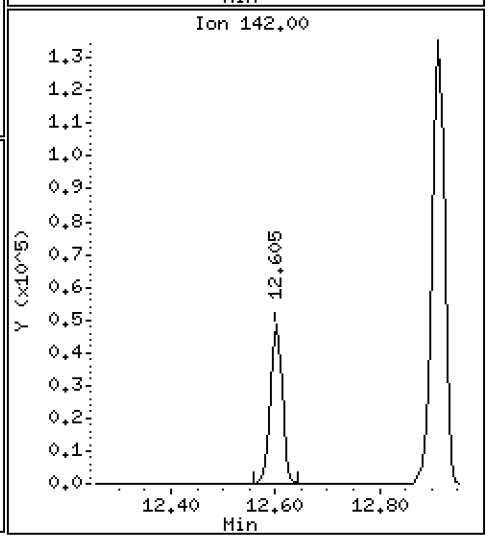












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

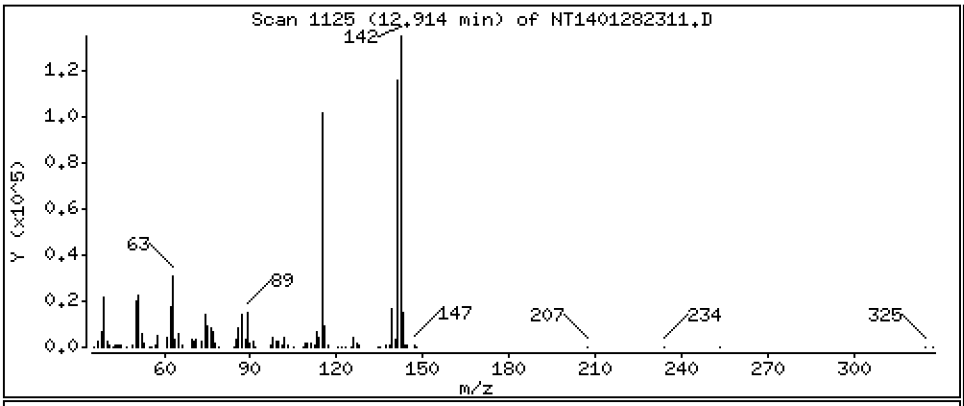
Operator: JGR

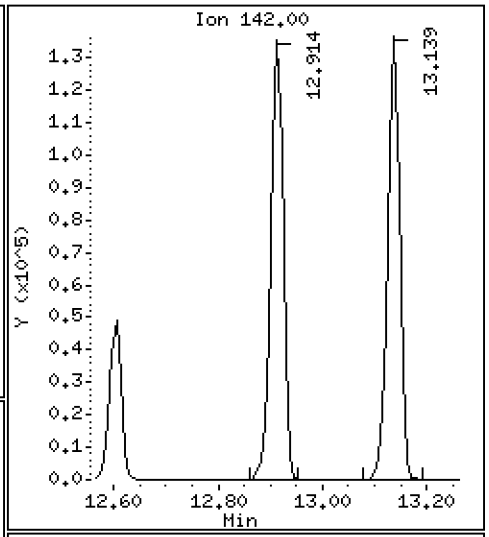
Column phase: ZB-5msi

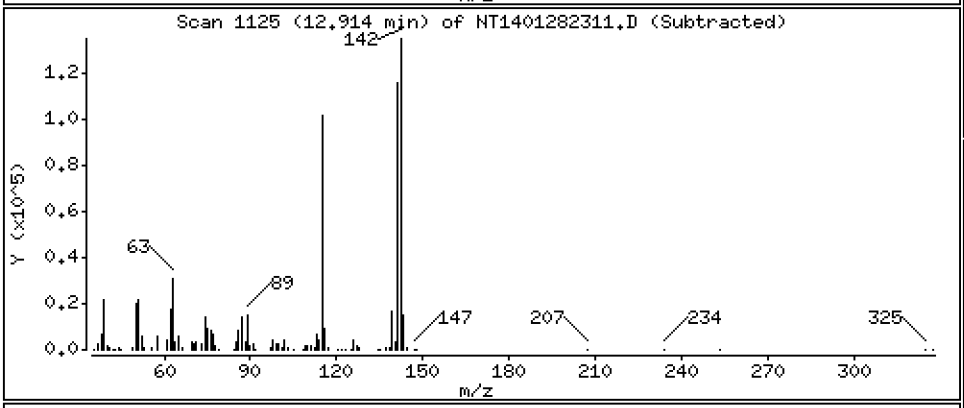
Column diameter: 0.25

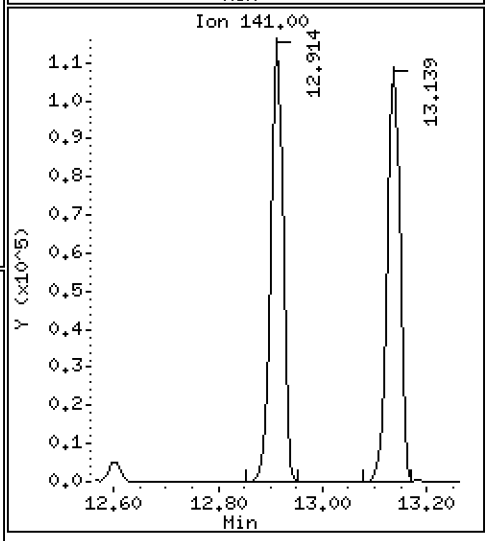
32 2-Methylnaphthalene

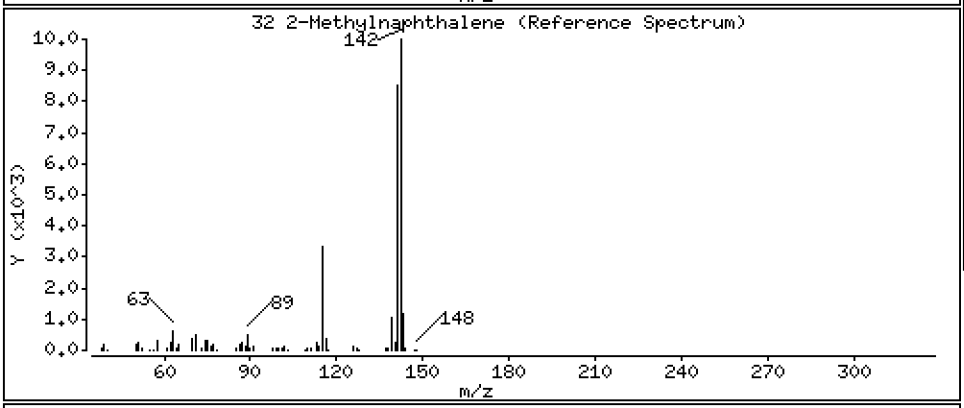
Concentration: 4.357 ug/mL

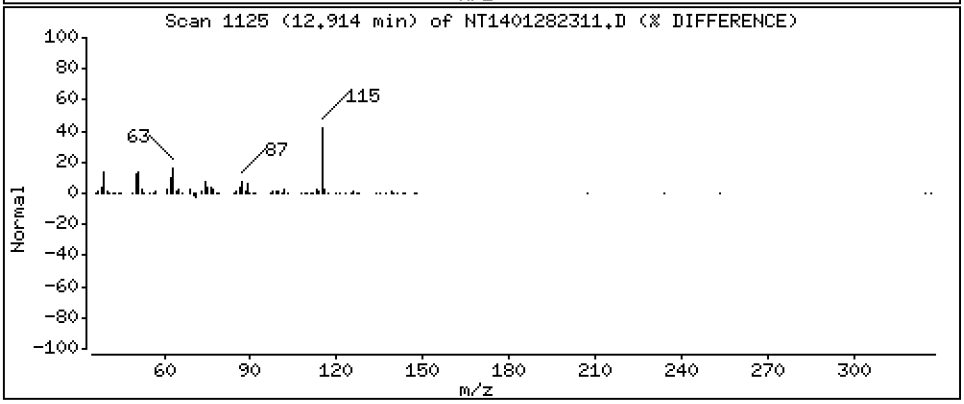












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

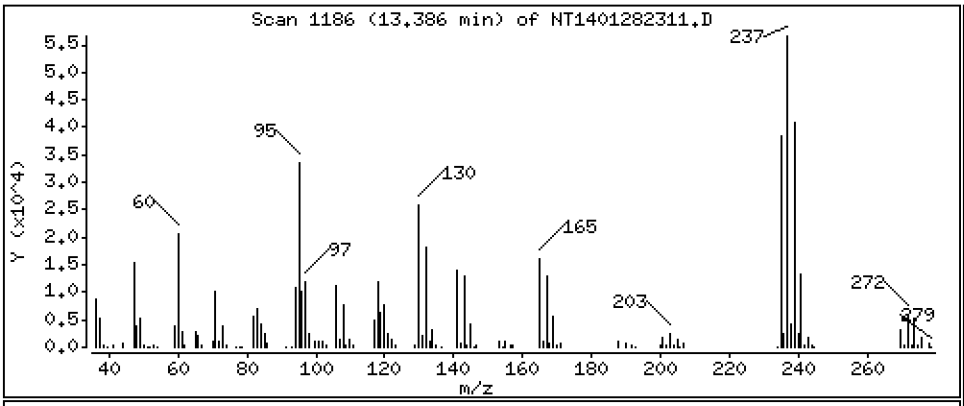
Operator: JGR

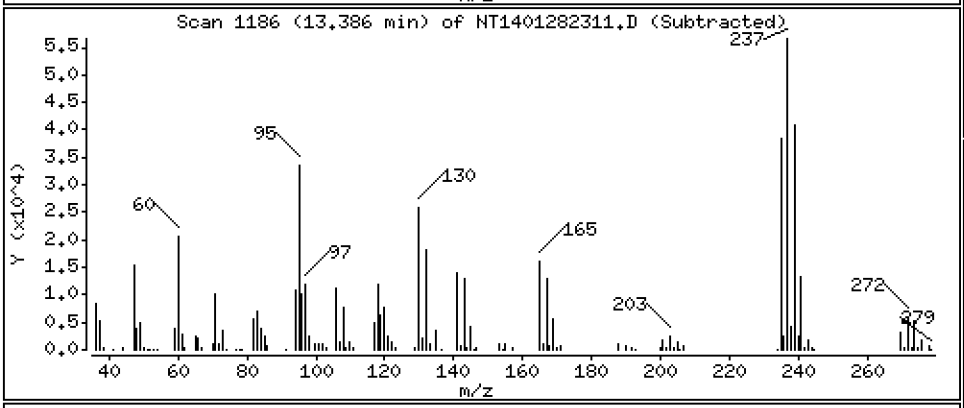
Column phase: ZB-5msi

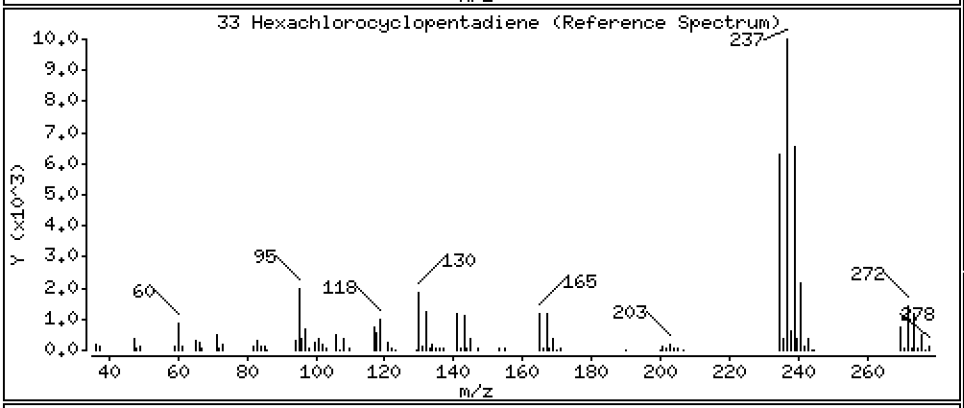
Column diameter: 0.25

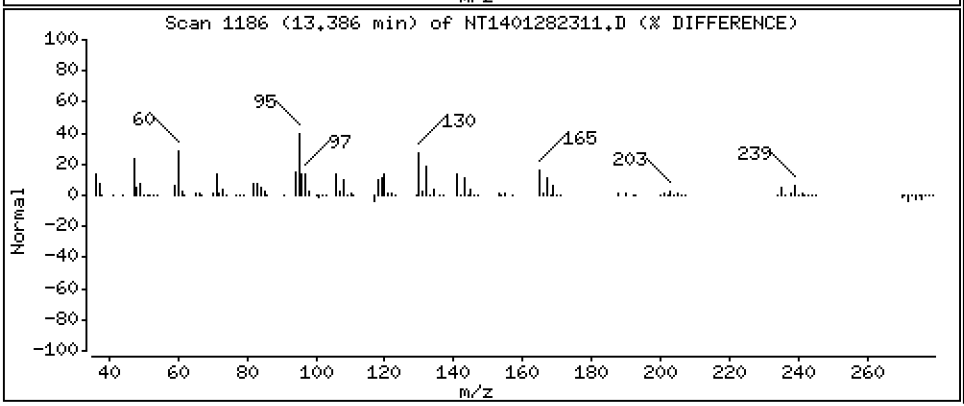
33 Hexachlorocyclopentadiene

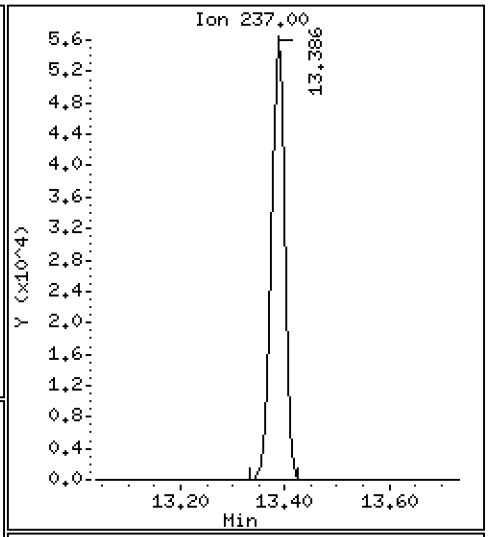
Concentration: 4.637 ug/mL

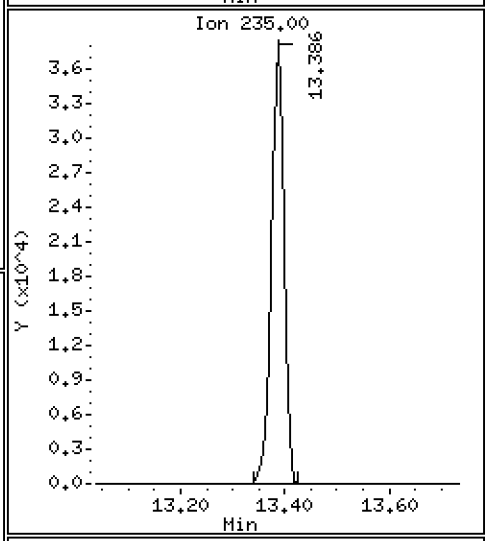


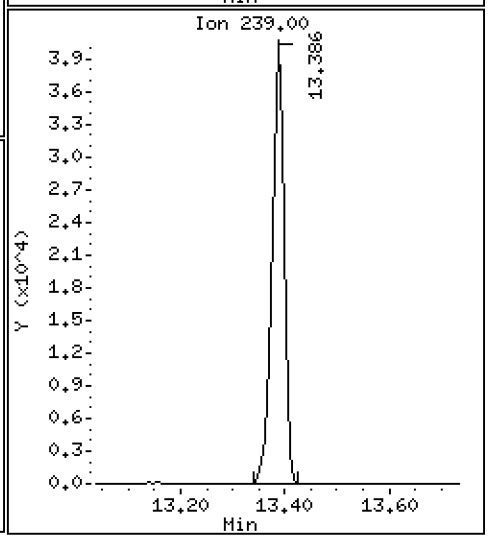












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

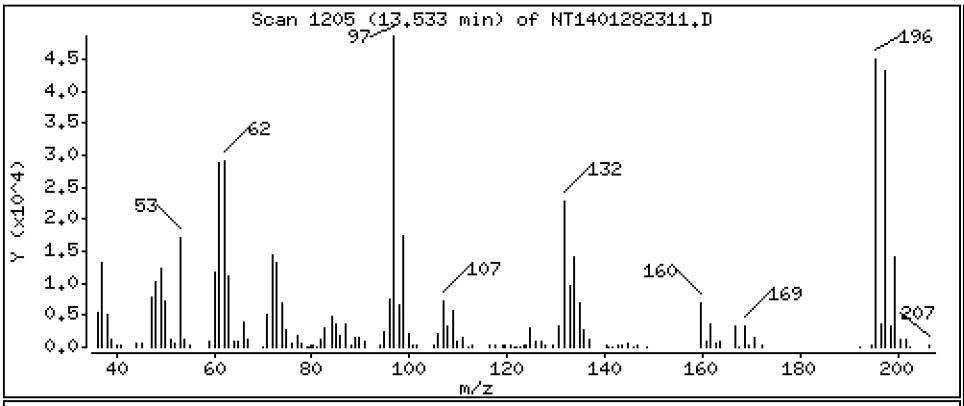
Operator: JGR

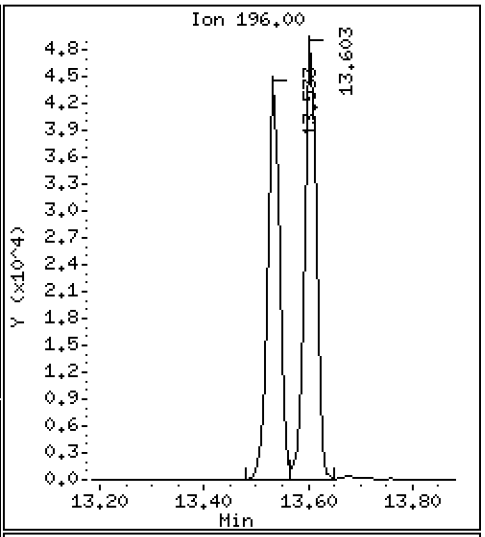
Column phase: ZB-5msi

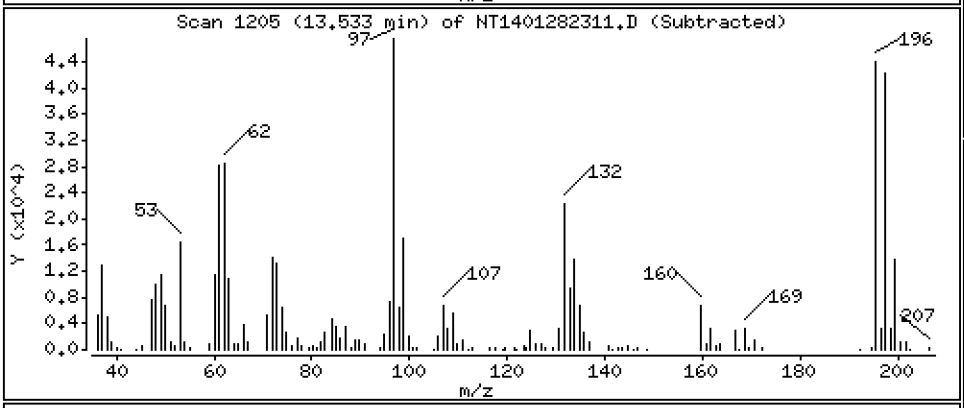
Column diameter: 0.25

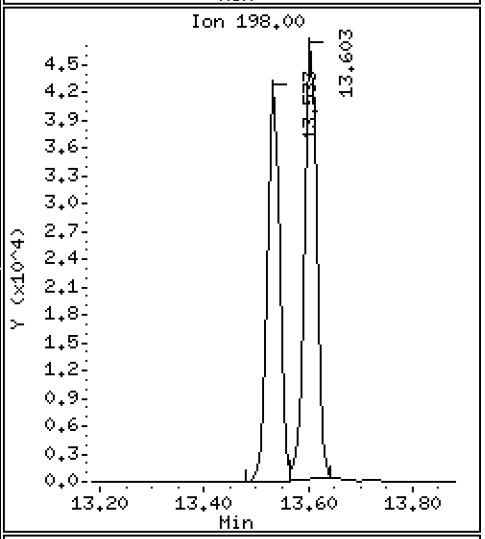
34 2,4,6-Trichlorophenol

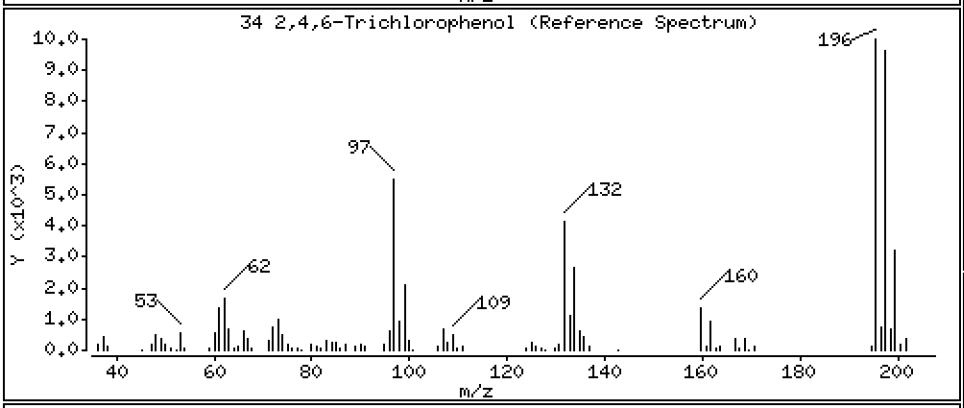
Concentration: 3.710 ug/mL

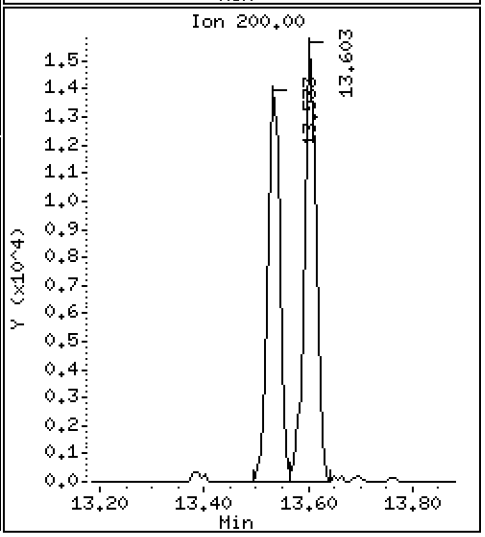


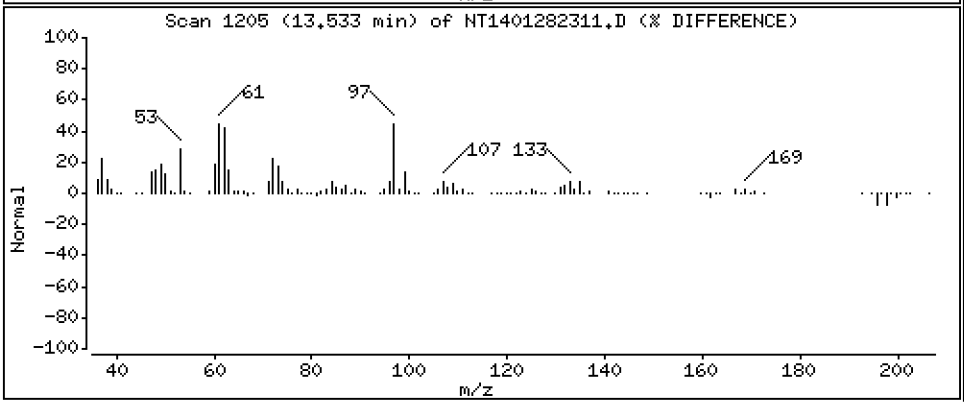












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

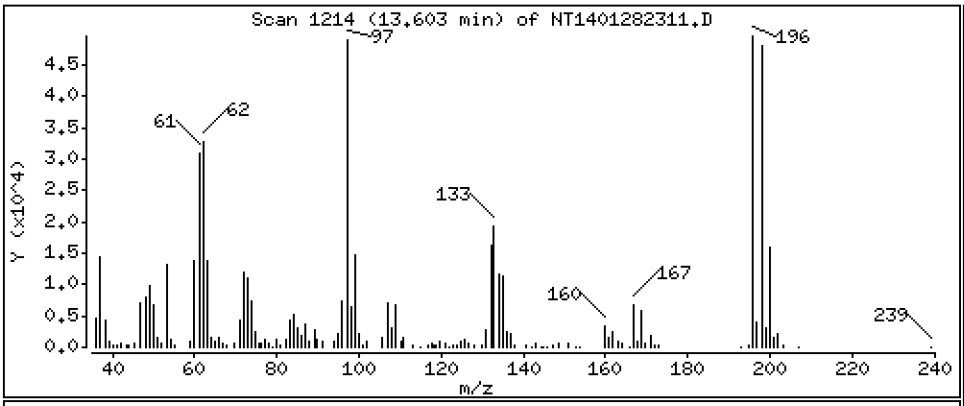
Operator: JGR

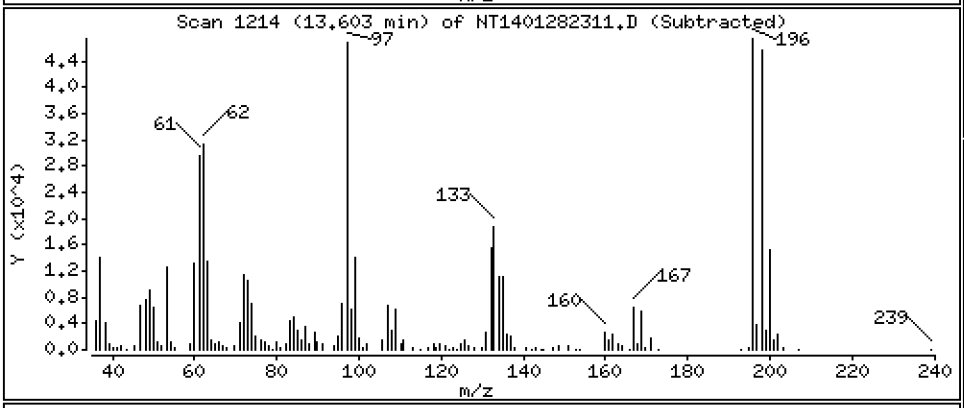
Column phase: ZB-5msi

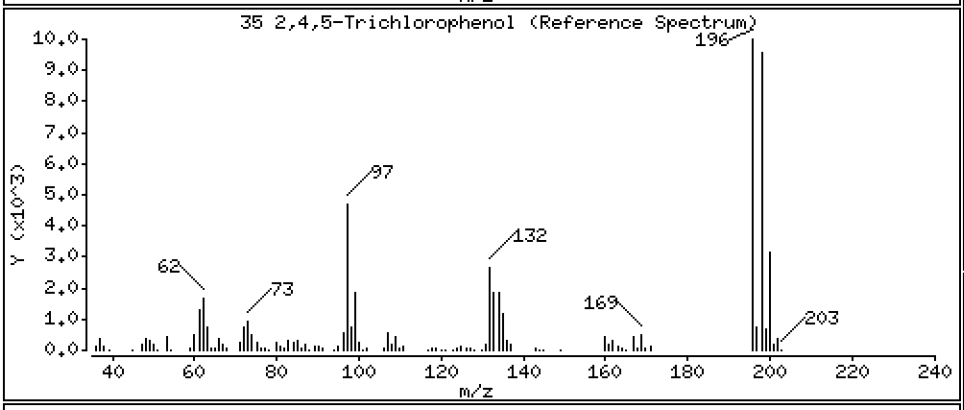
Column diameter: 0.25

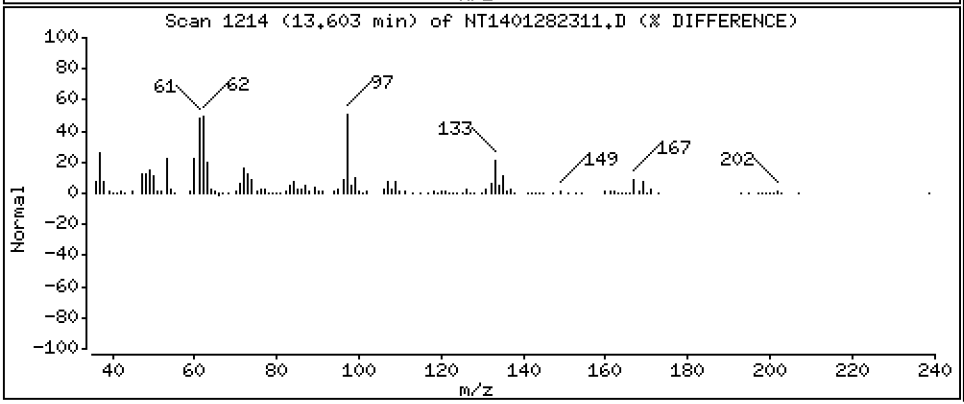
35 2,4,5-Trichlorophenol

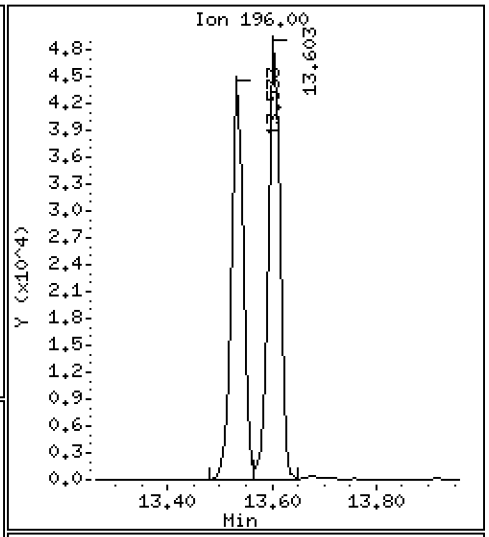
Concentration: 3.616 ug/mL

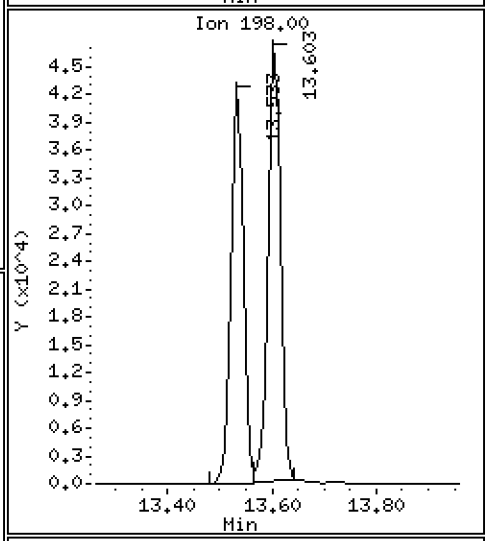


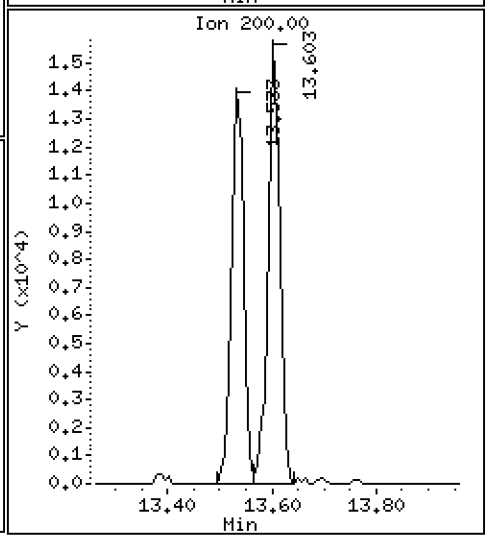












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

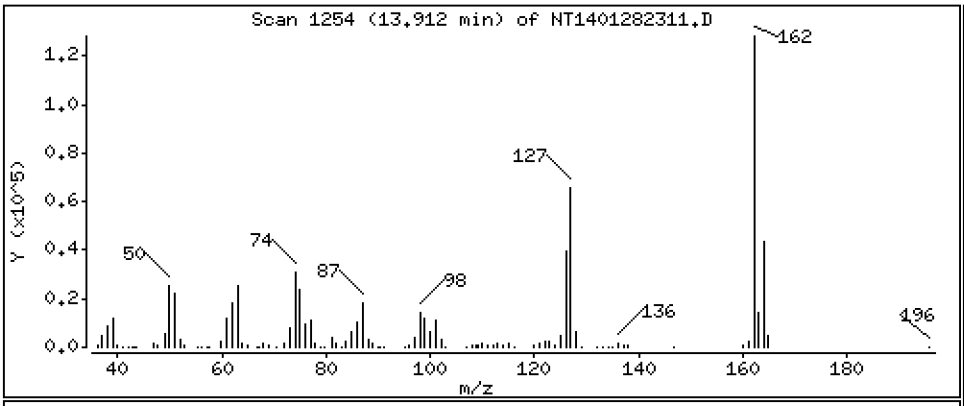
Operator: JGR

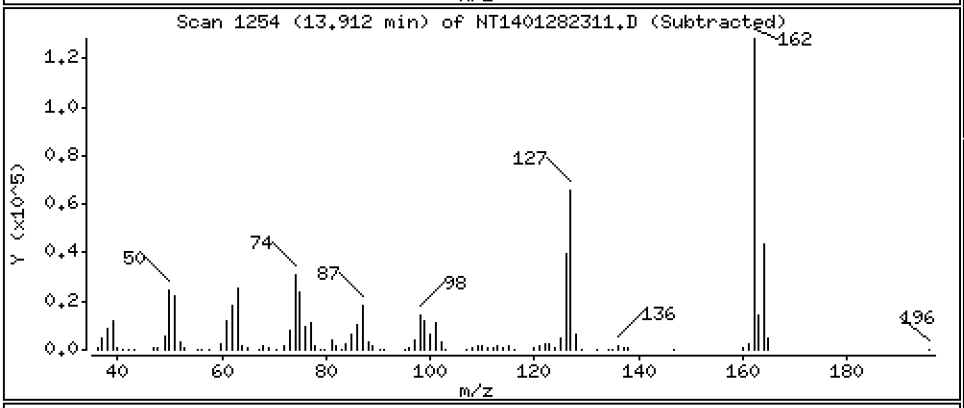
Column phase: ZB-5msi

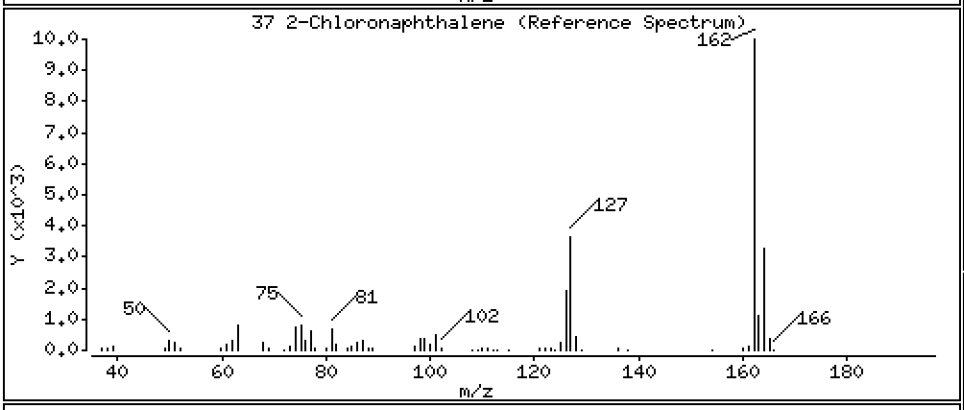
Column diameter: 0.25

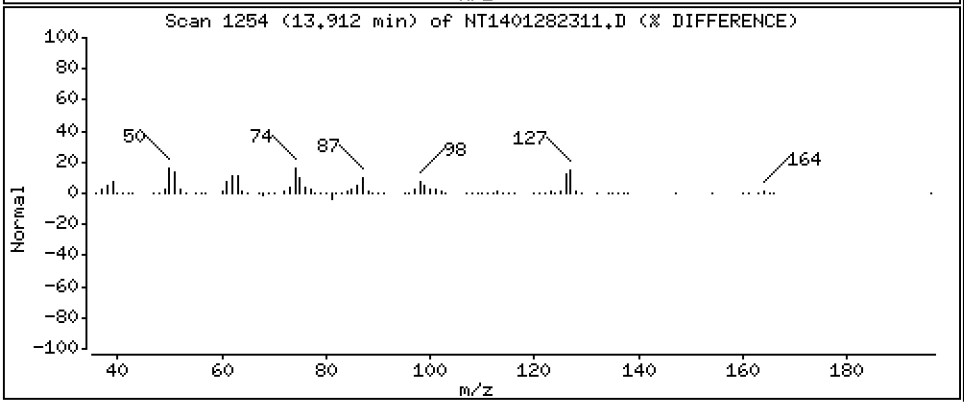
37 2-Chloronaphthalene

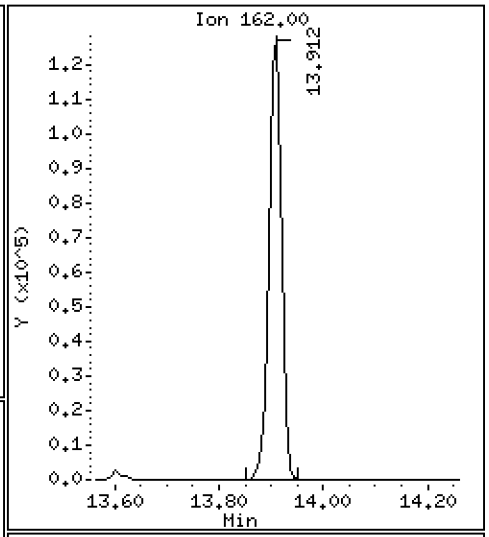
Concentration: 4.704 ug/mL

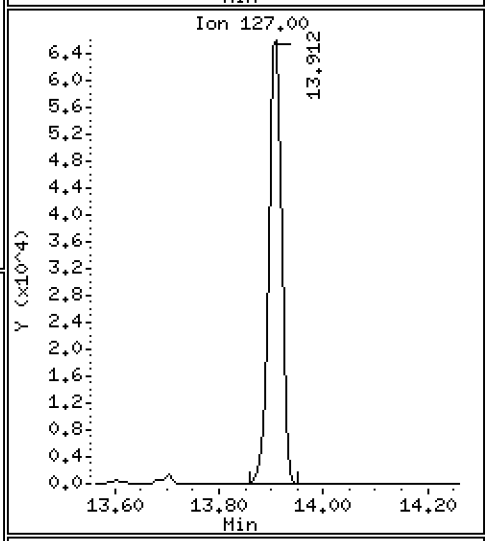


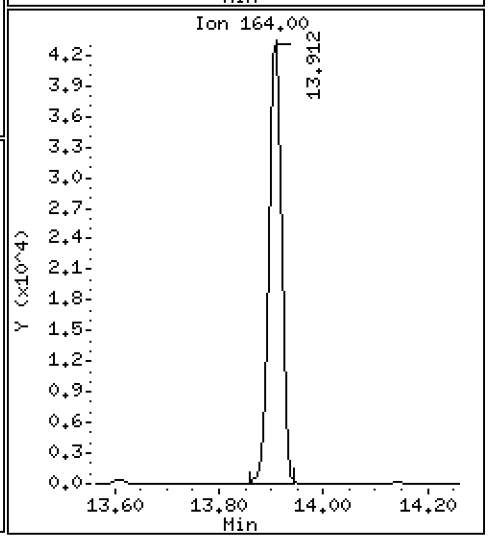












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

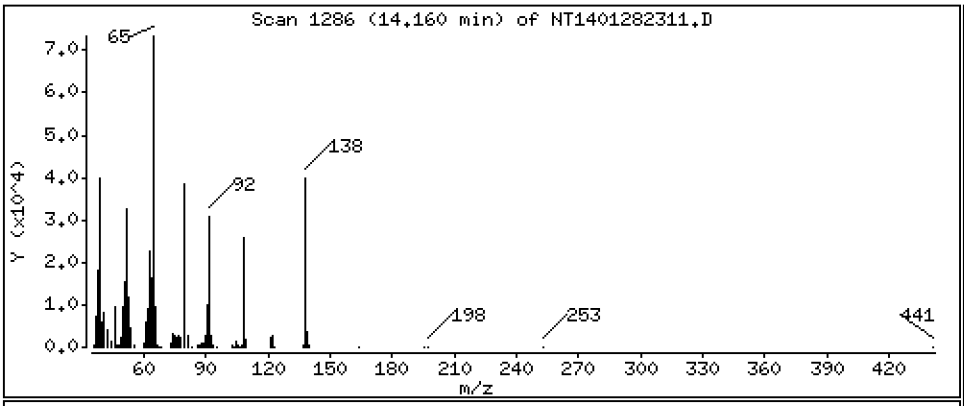
Operator: JGR

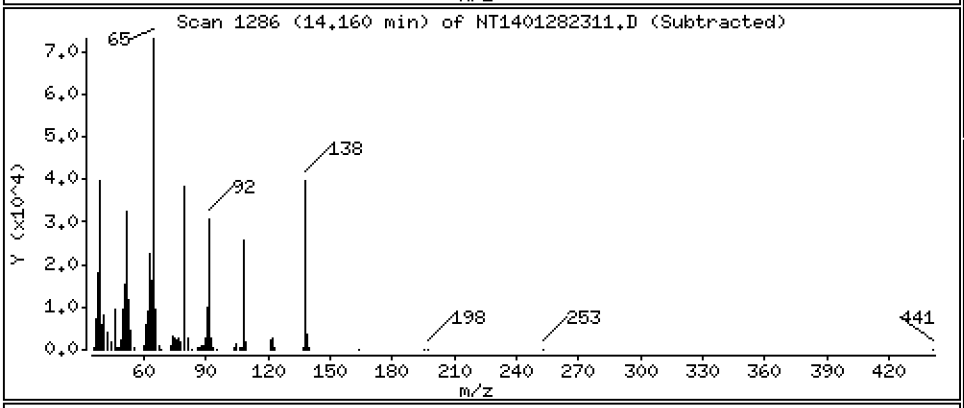
Column phase: ZB-5msi

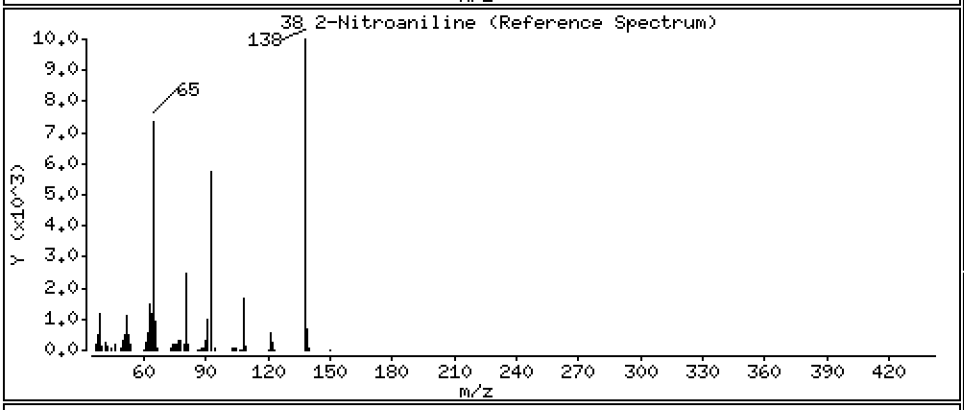
Column diameter: 0.25

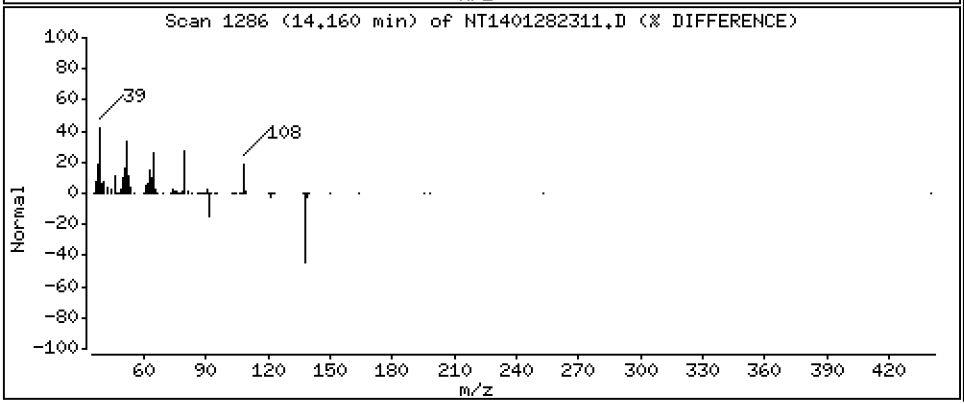
38 2-Nitroaniline

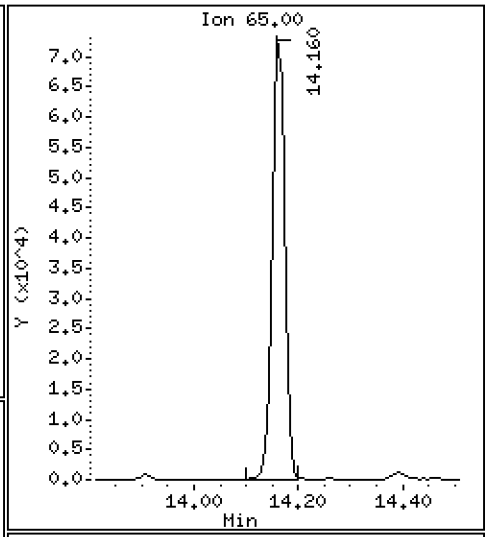
Concentration: 4.509 ug/mL

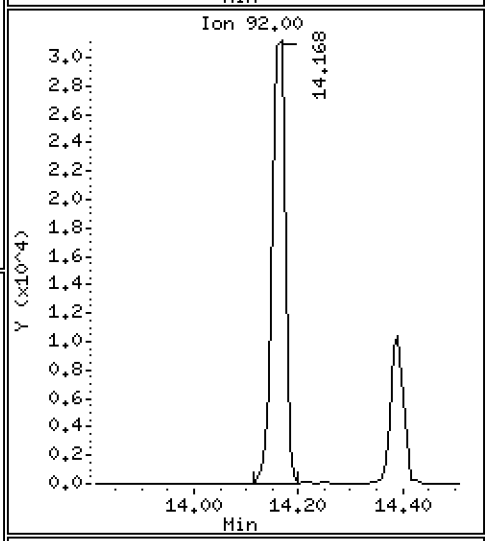


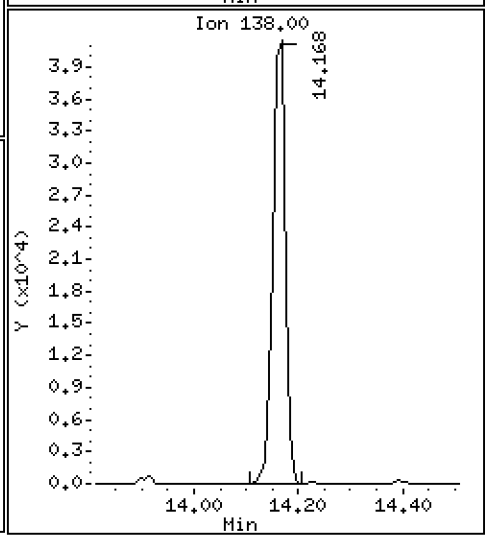












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

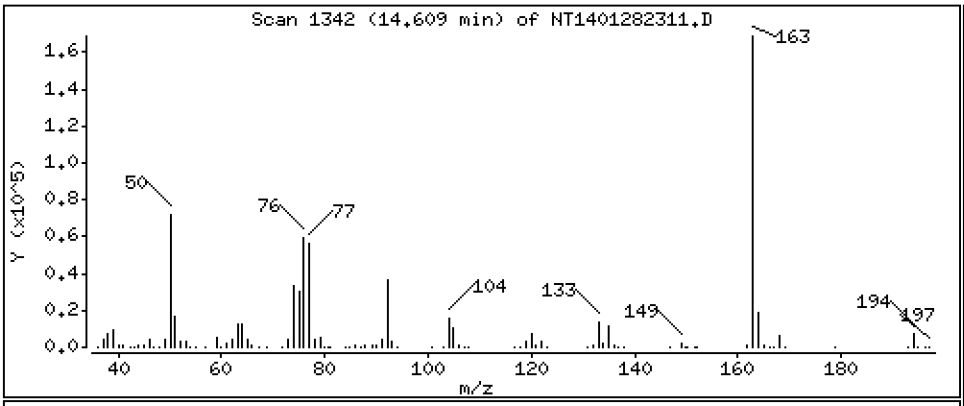
Operator: JGR

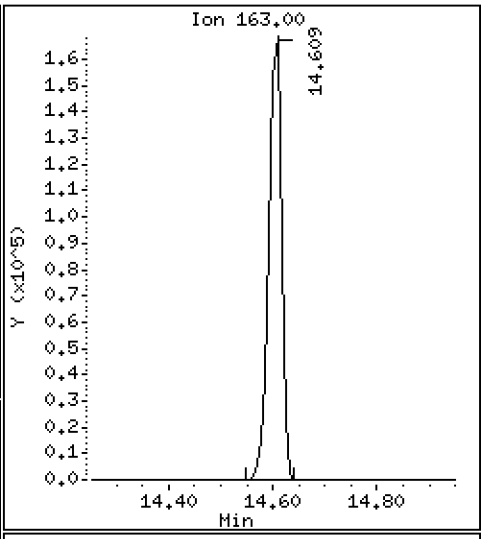
Column phase: ZB-5msi

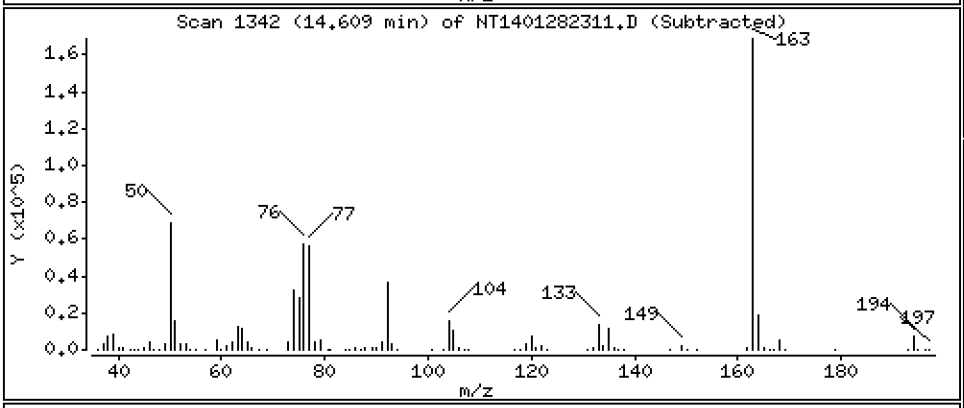
Column diameter: 0.25

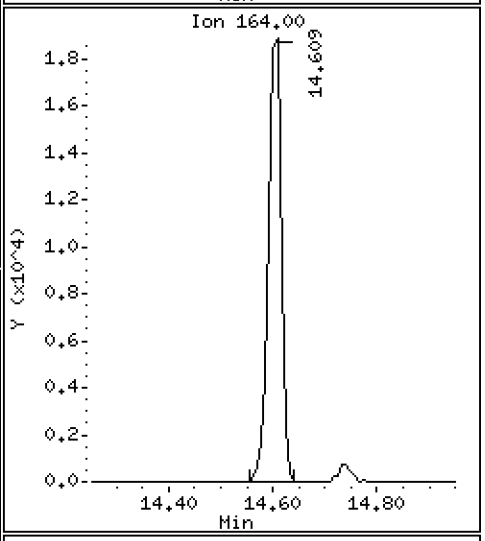
39 Dimethylphthalate

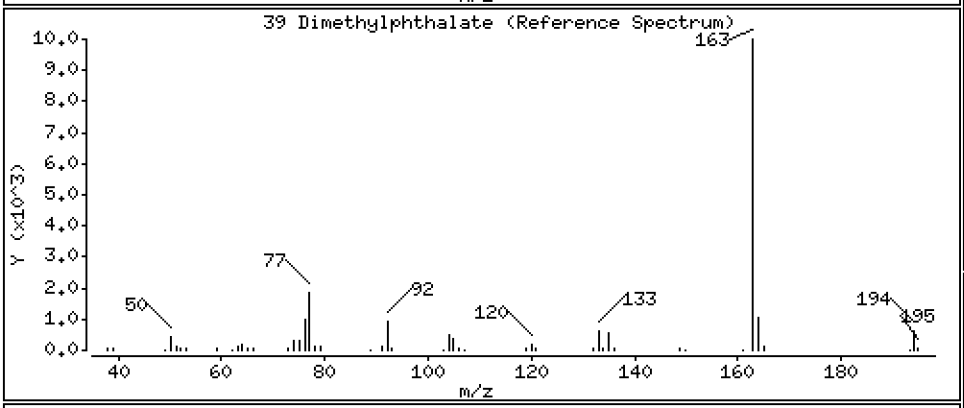
Concentration: 4.875 ug/mL

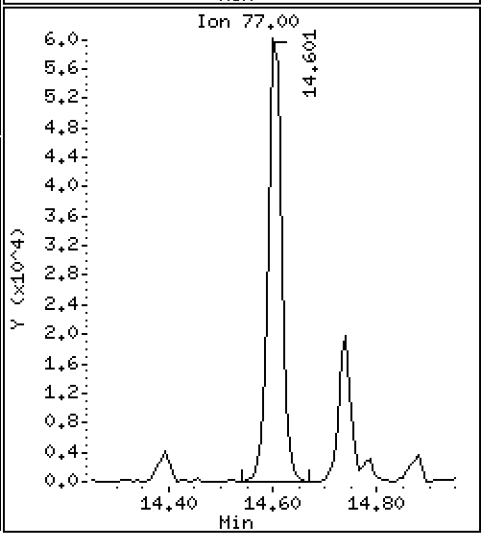


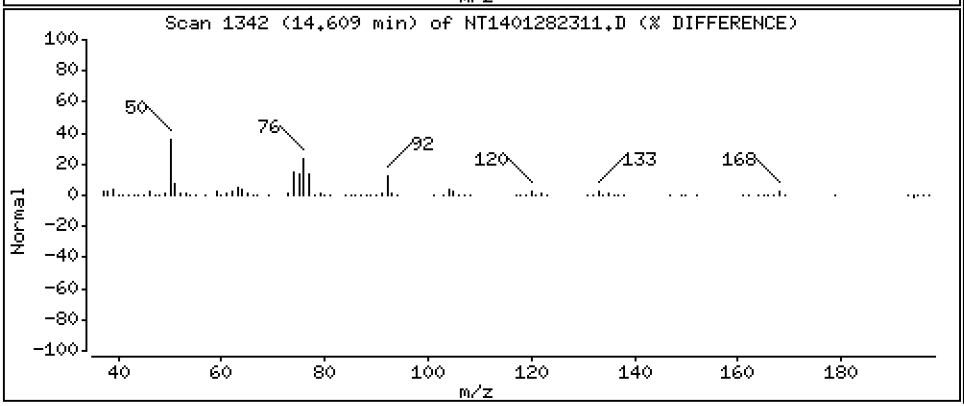












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

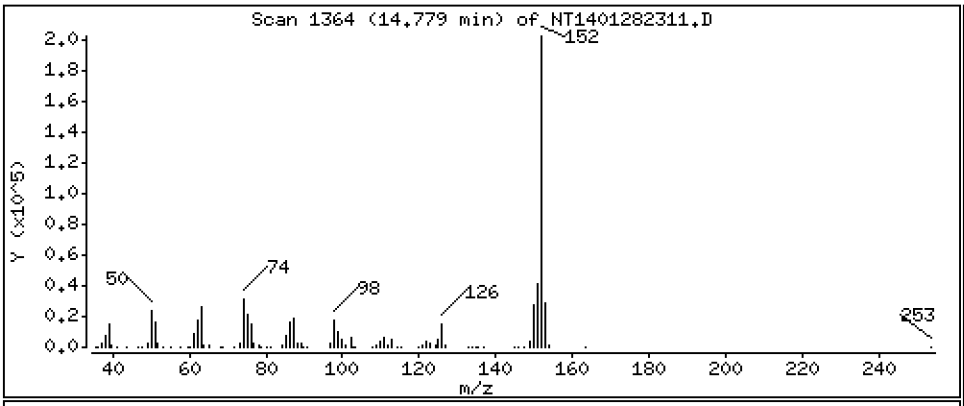
Operator: JGR

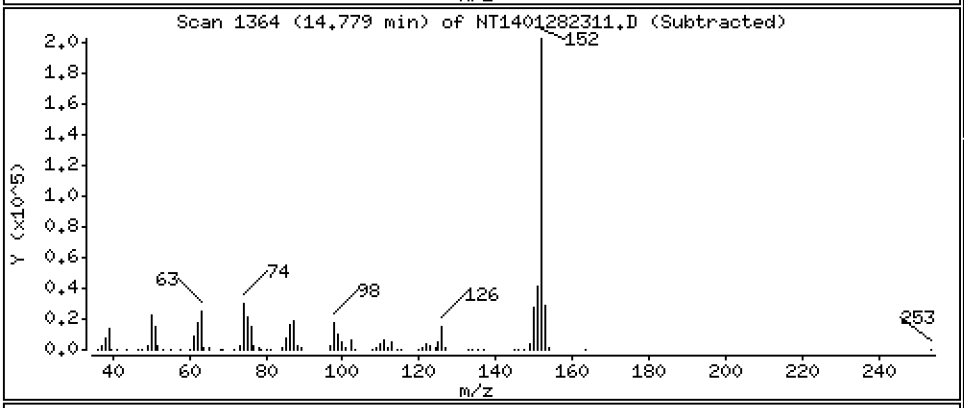
Column phase: ZB-5msi

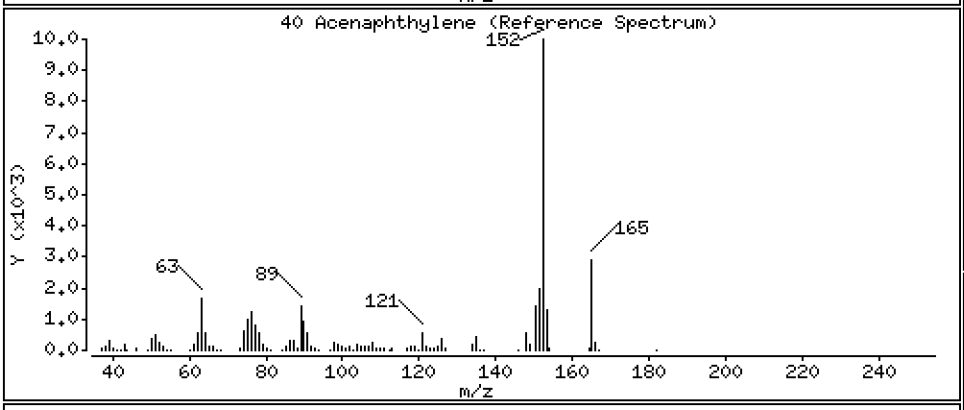
Column diameter: 0.25

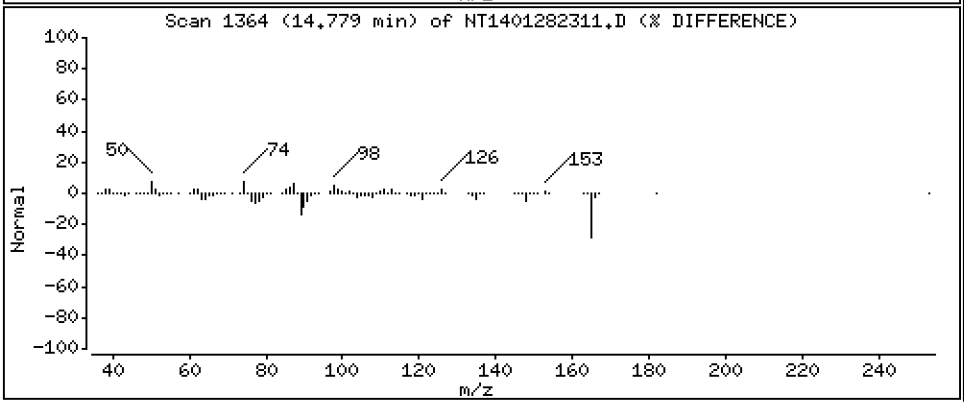
40 Acenaphthylene

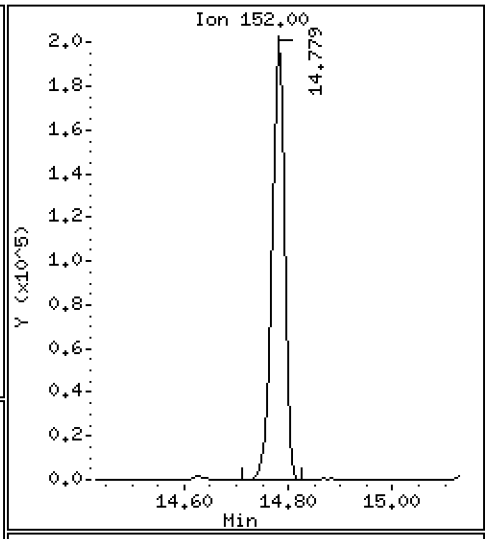
Concentration: 4.695 ug/mL

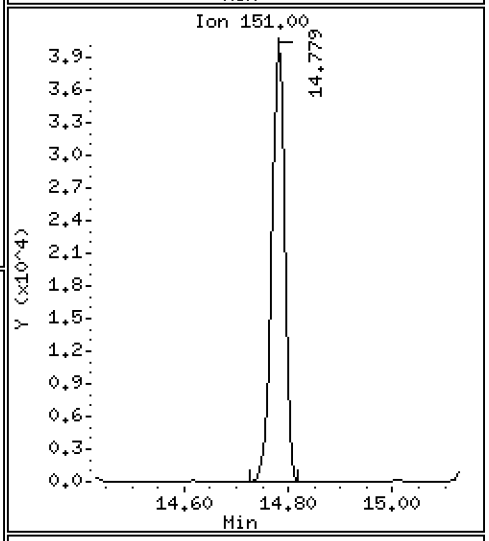


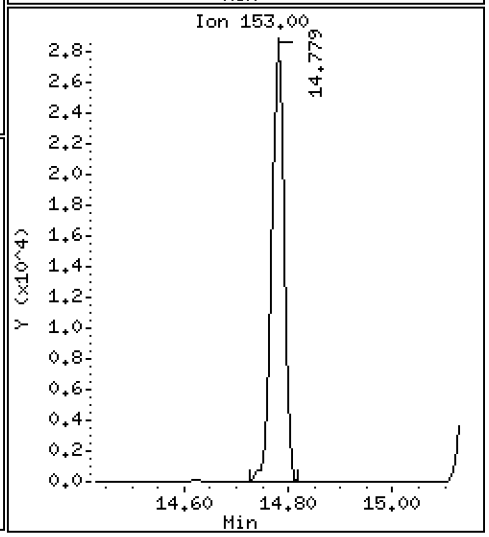












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

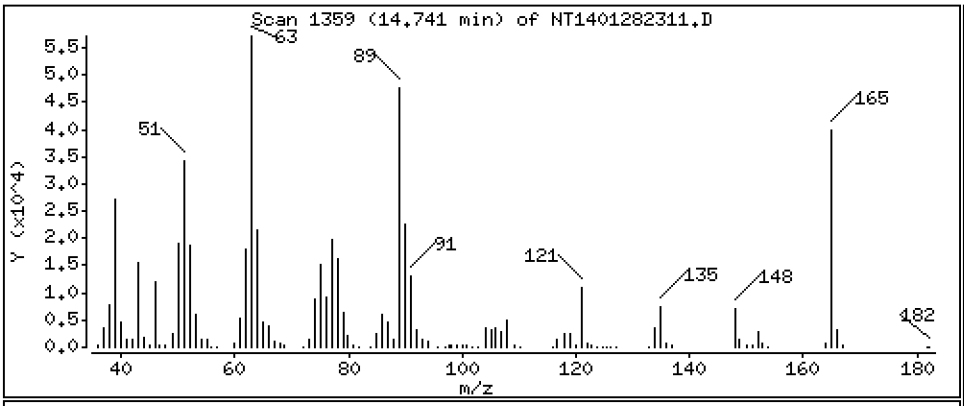
Operator: JGR

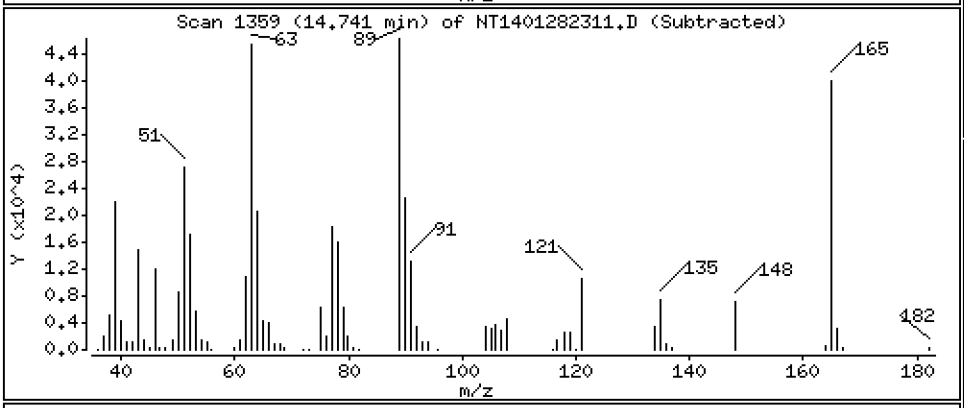
Column phase: ZB-5msi

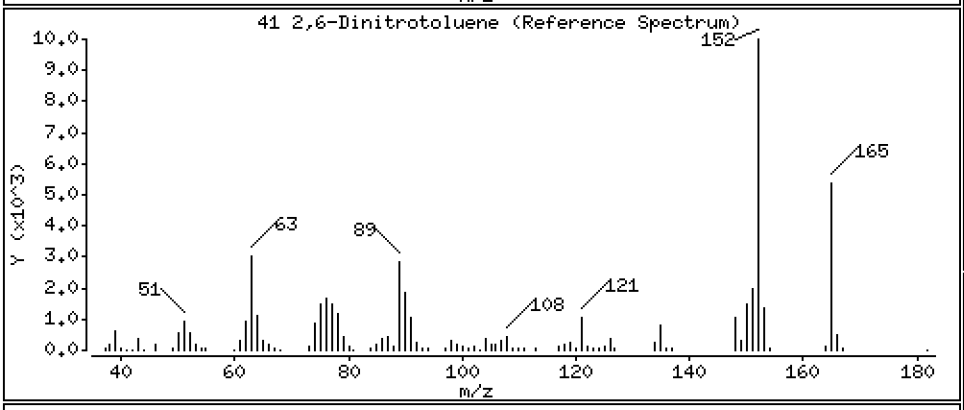
Column diameter: 0.25

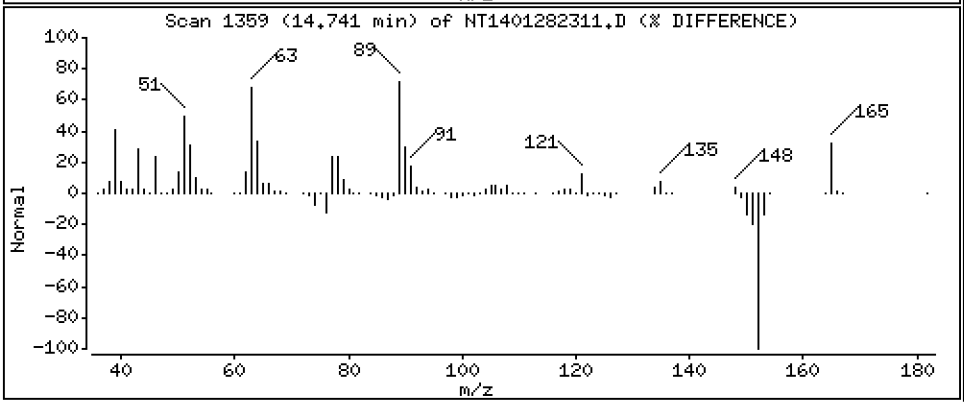
41 2,6-Dinitrotoluene

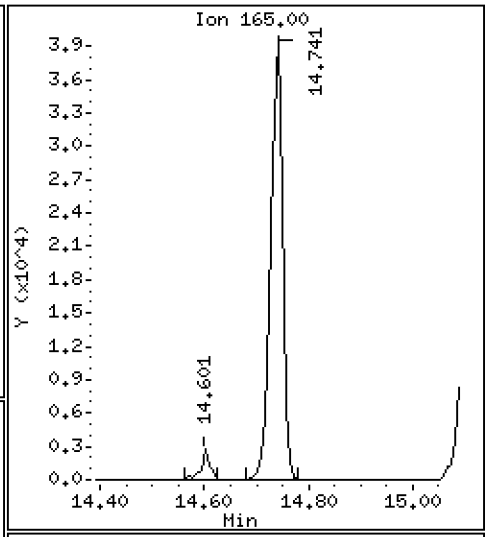
Concentration: 4.603 ug/mL

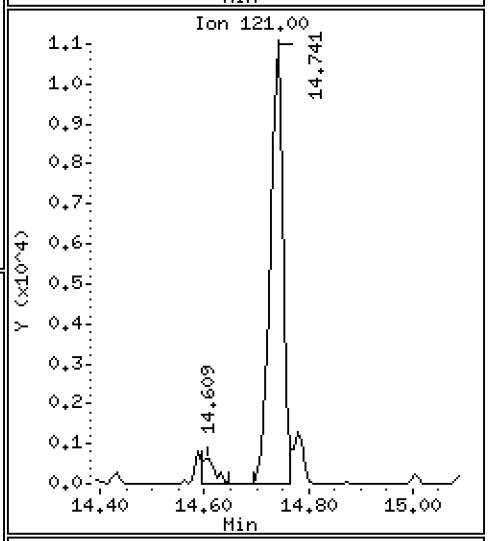


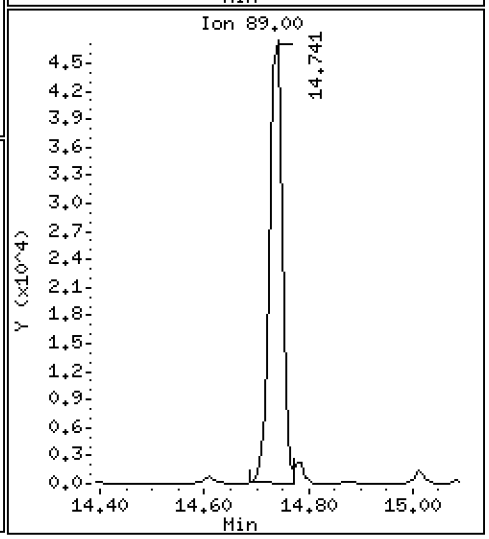












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

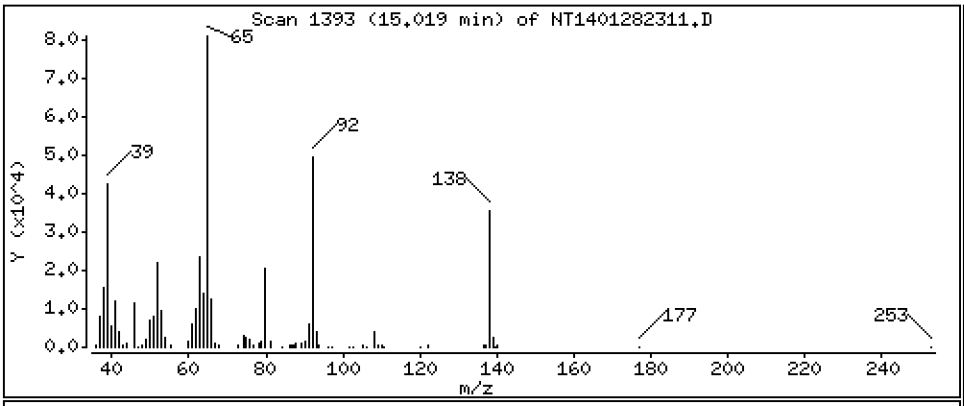
Operator: JGR

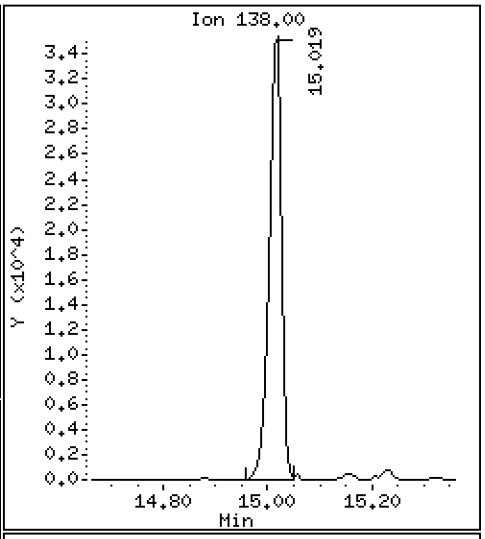
Column phase: ZB-5msi

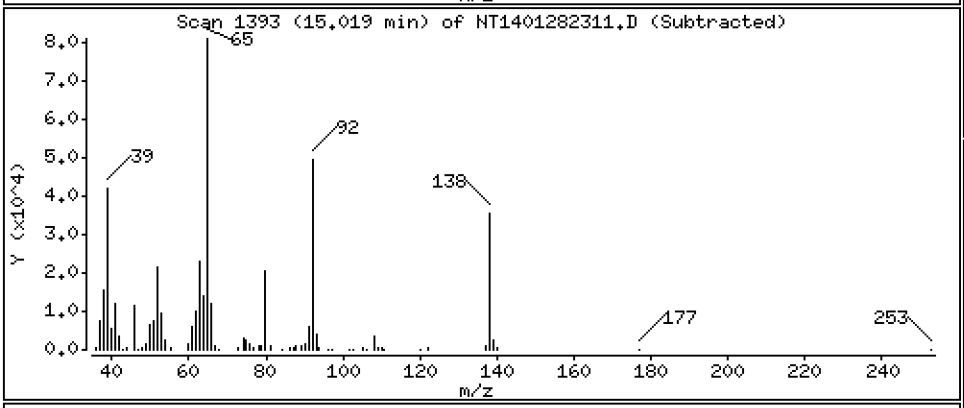
Column diameter: 0.25

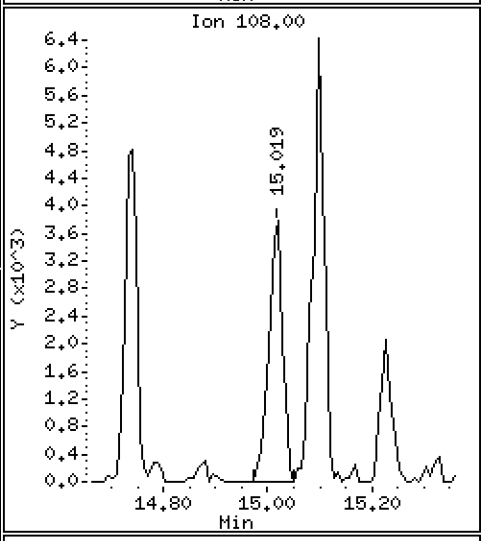
43 3-Nitroaniline

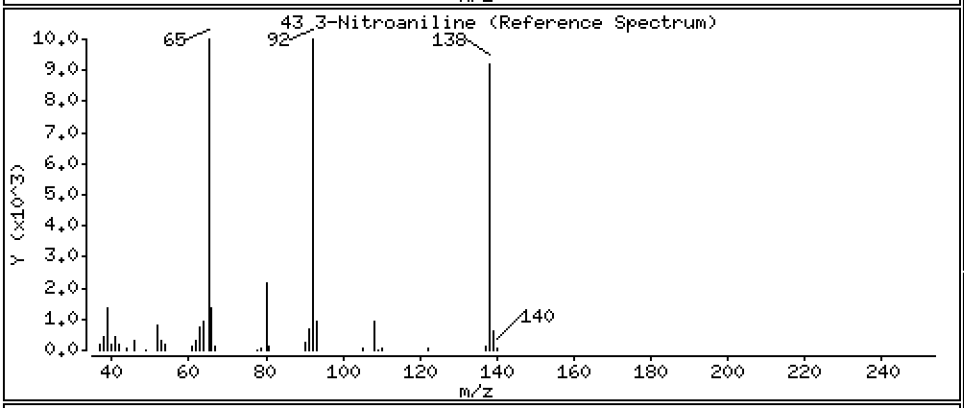
Concentration: 4.476 ug/mL

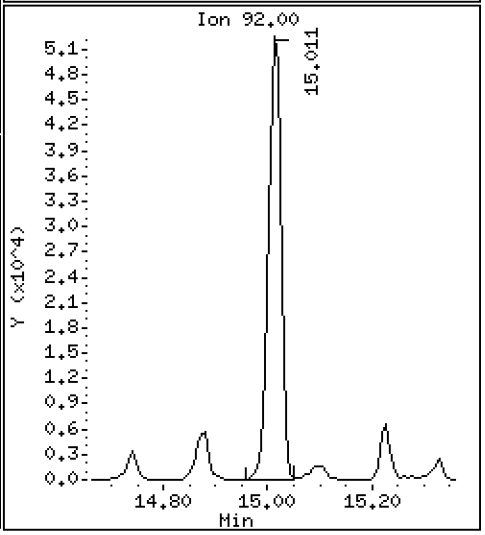


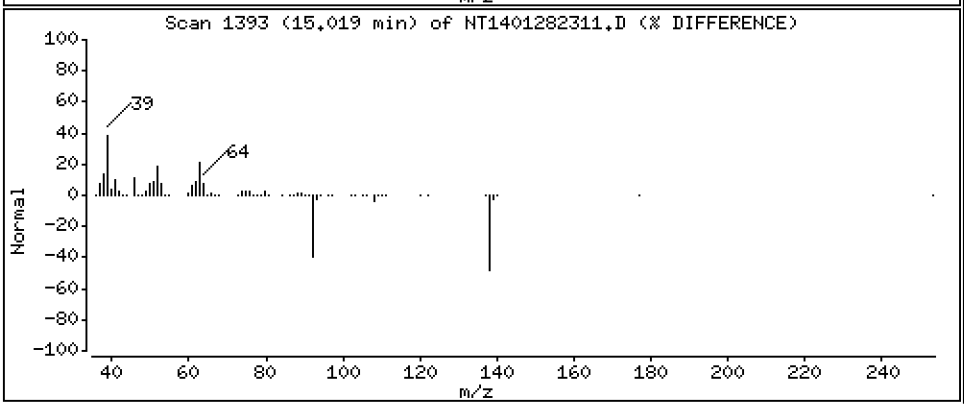












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

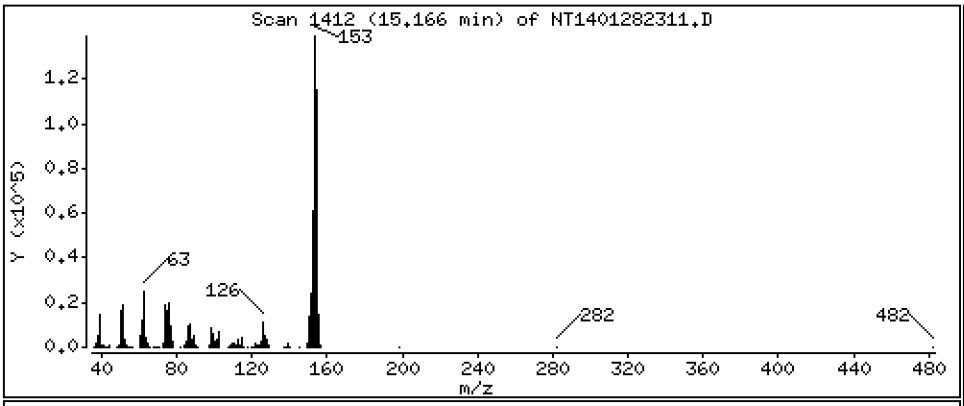
Operator: JGR

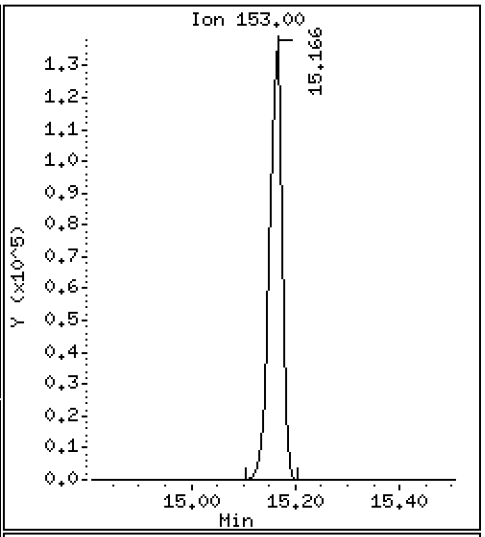
Column phase: ZB-5msi

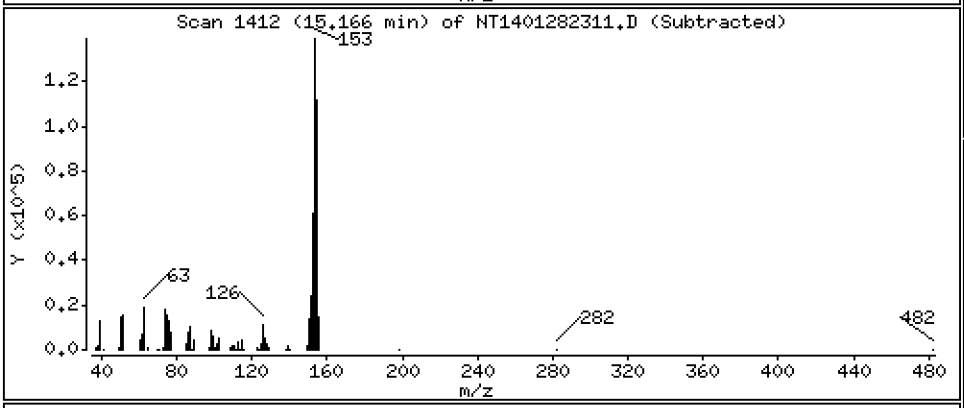
Column diameter: 0.25

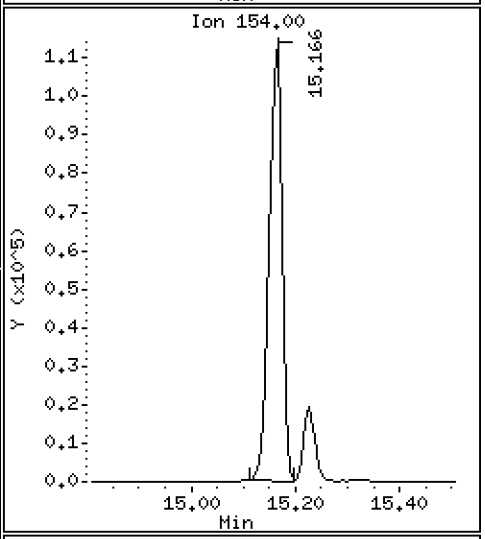
44 Acenaphthene

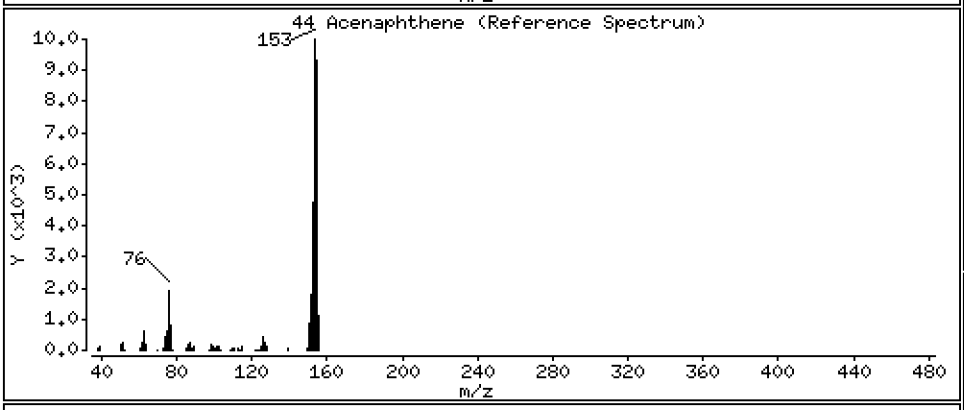
Concentration: 4.827 ug/mL

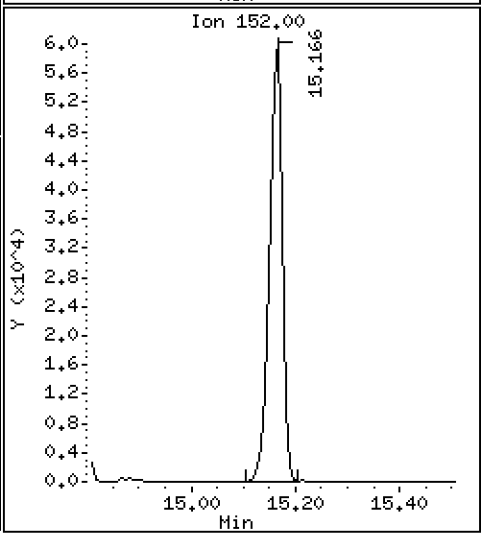


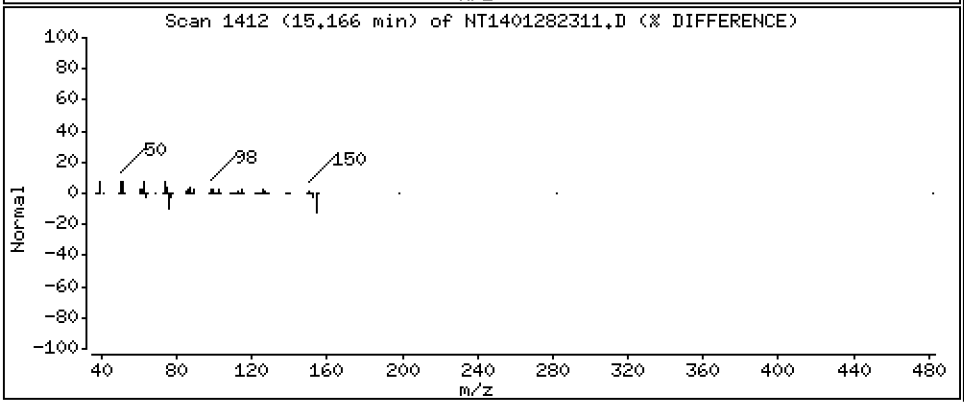












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

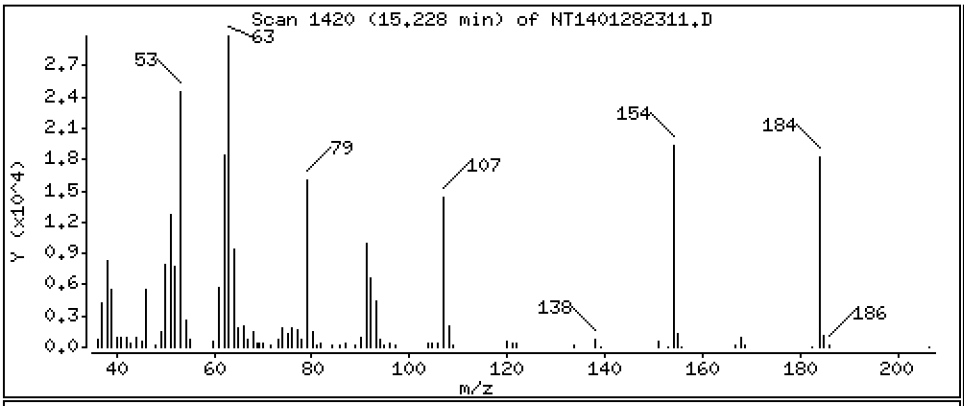
Operator: JGR

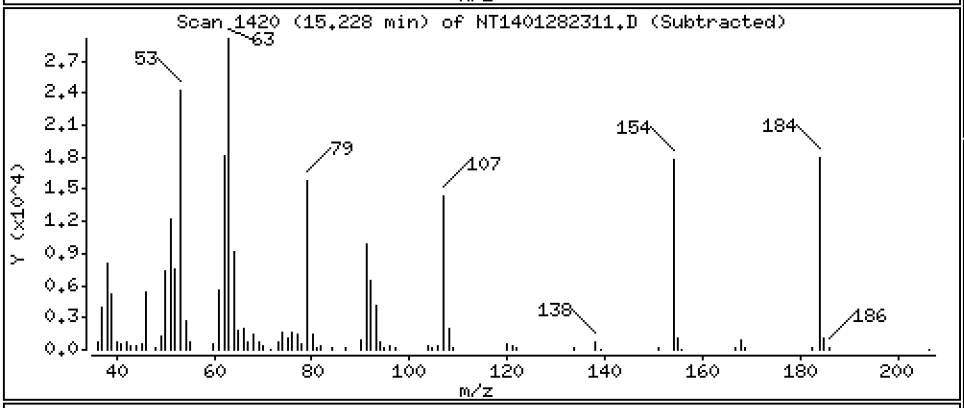
Column phase: ZB-5msi

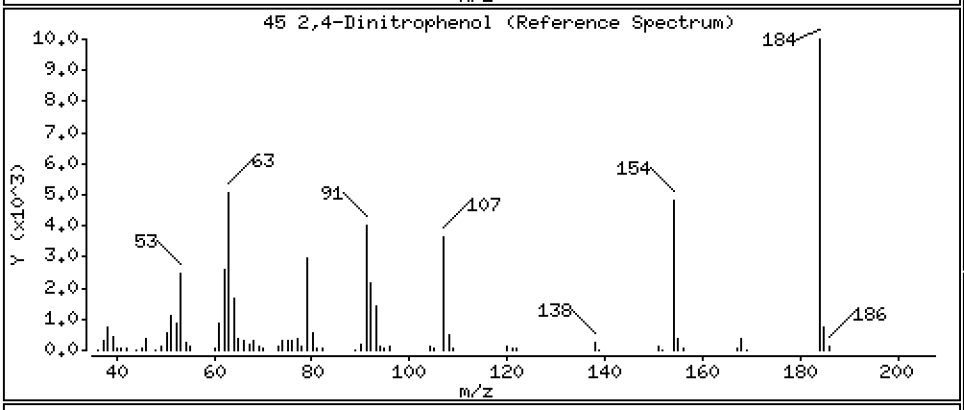
Column diameter: 0.25

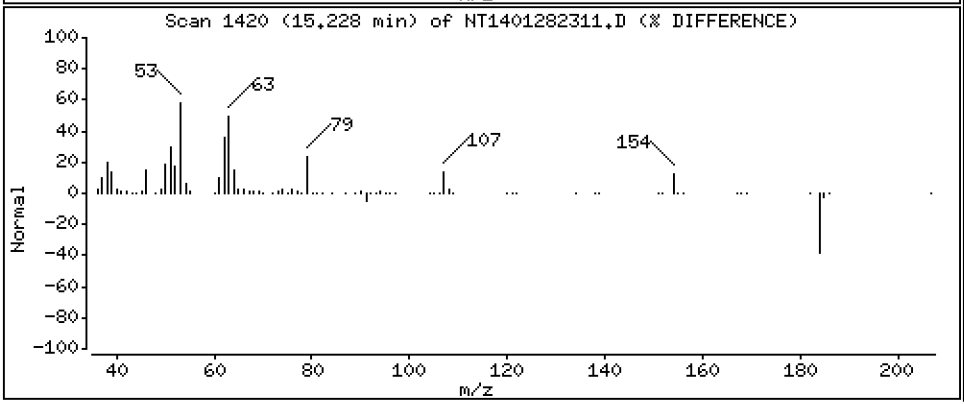
45 2,4-Dinitrophenol

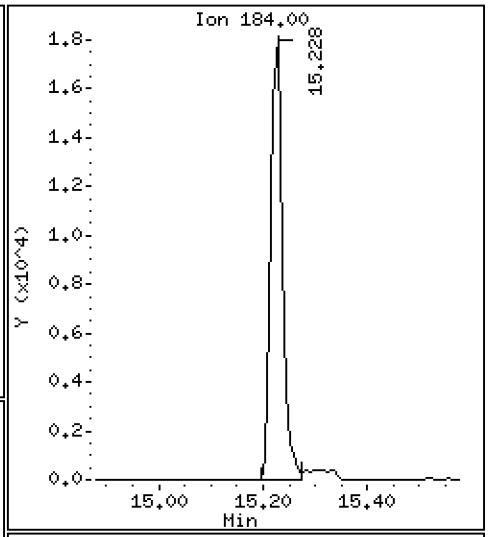
Concentration: 2.106 ug/mL

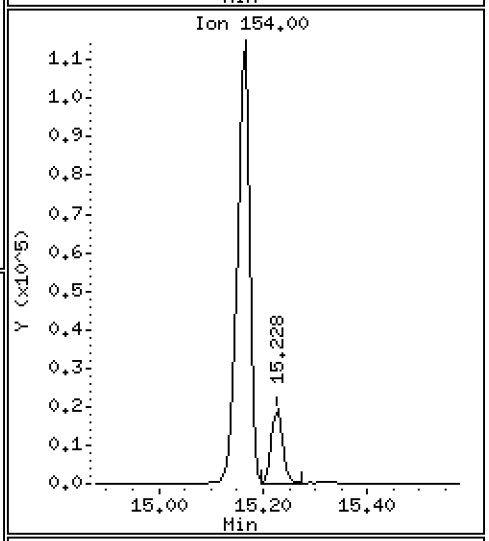


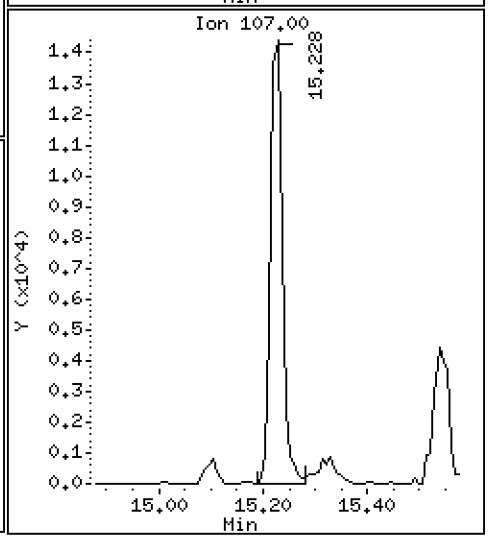












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

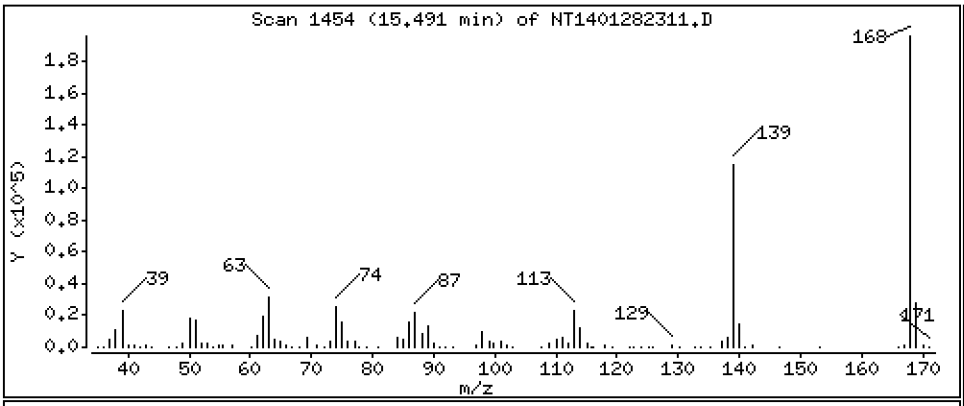
Operator: JGR

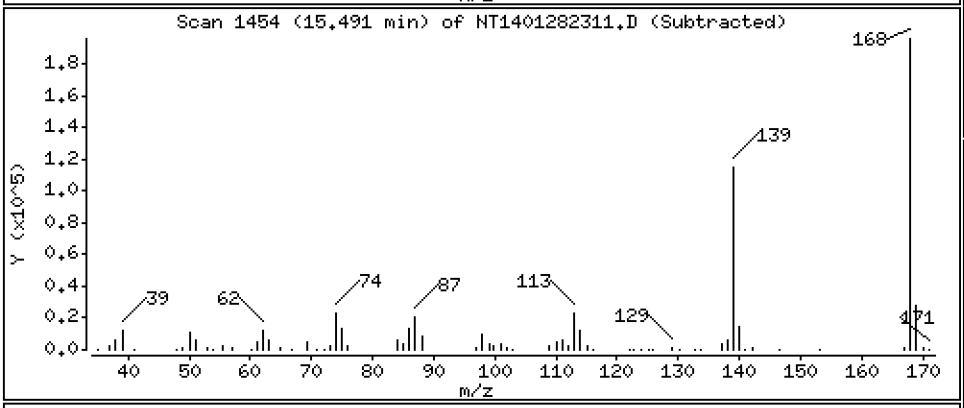
Column phase: ZB-5msi

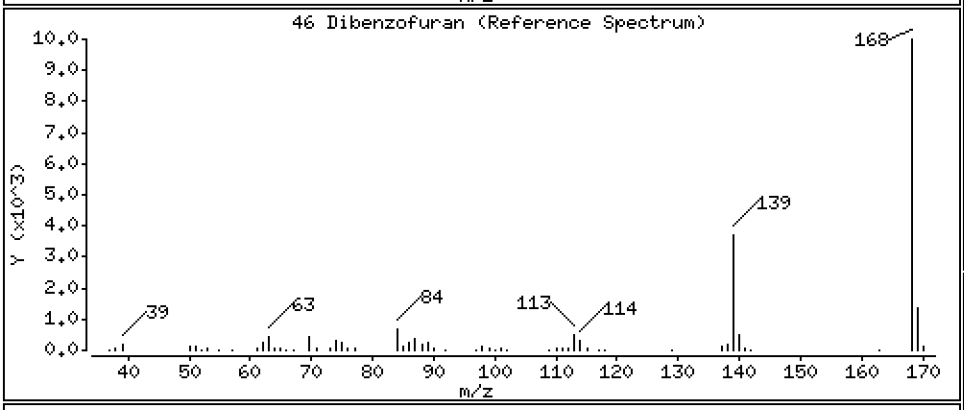
Column diameter: 0.25

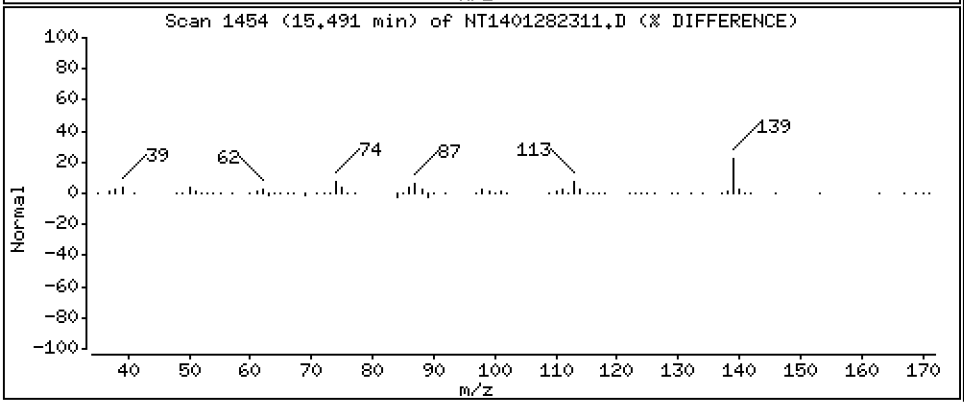
46 Dibenzofuran

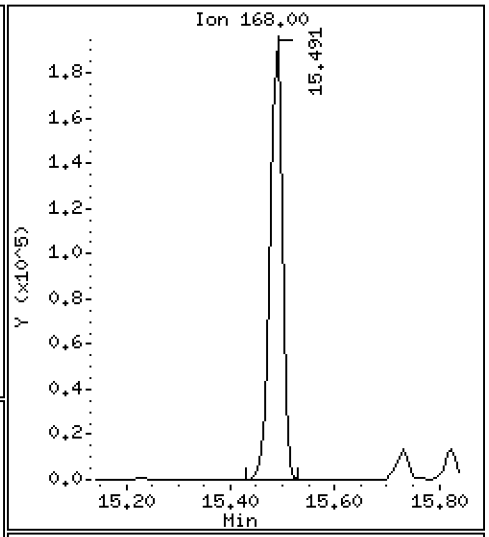
Concentration: 4.553 ug/mL

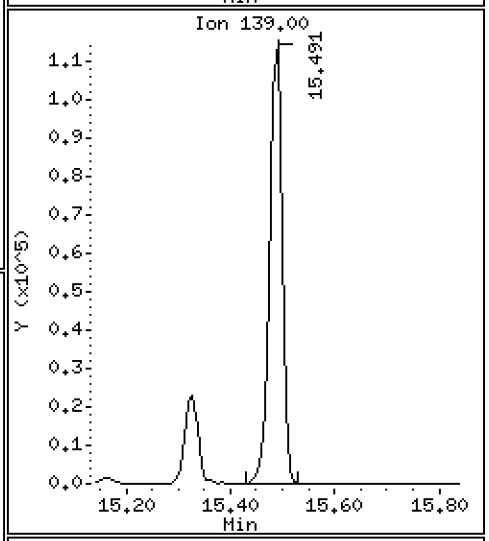


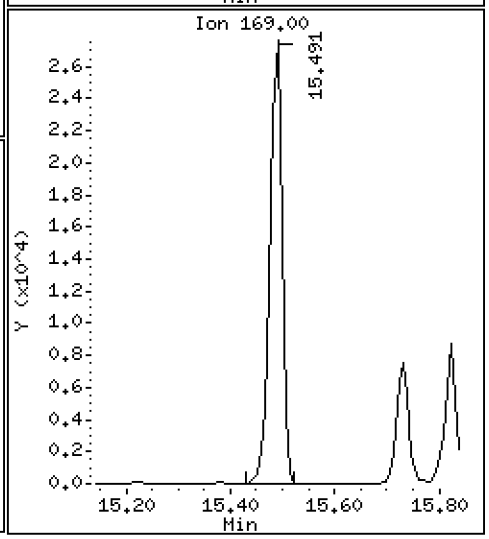












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

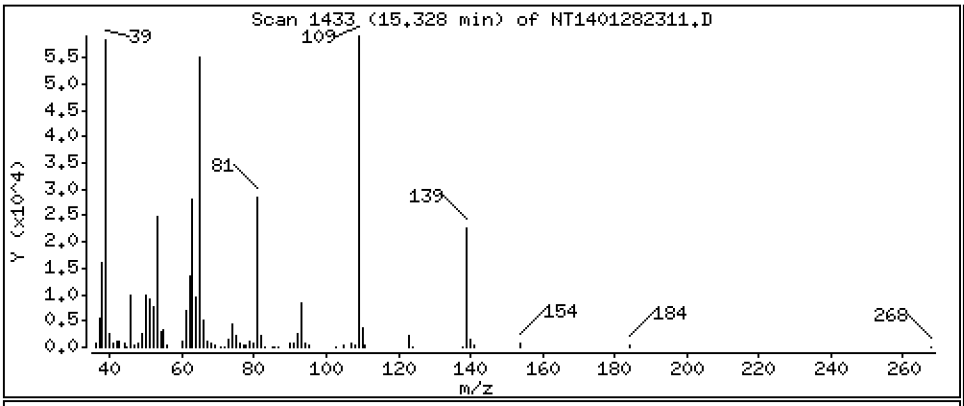
Operator: JGR

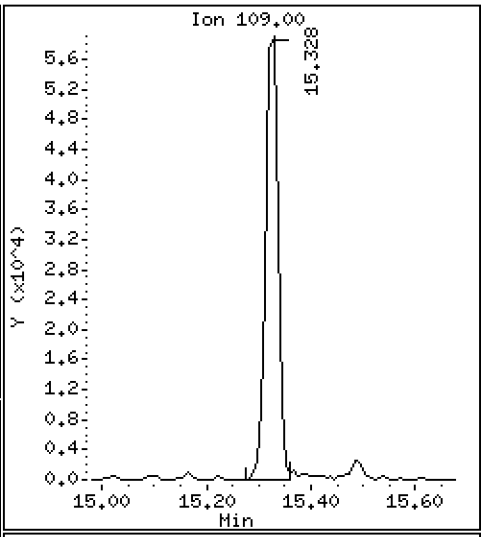
Column phase: ZB-5msi

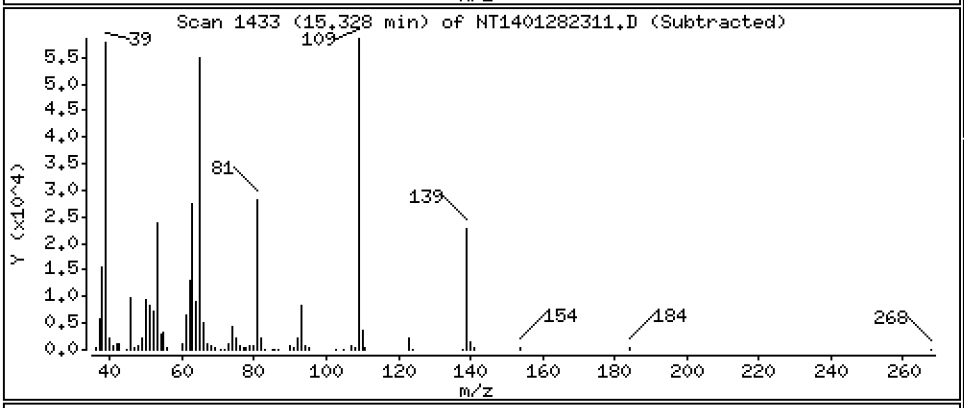
Column diameter: 0.25

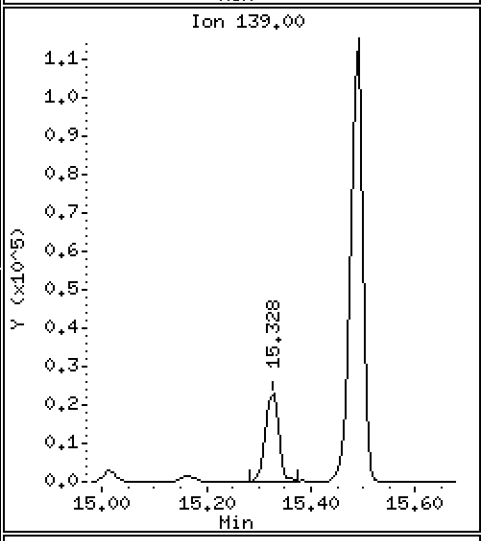
47 4-Nitrophenol

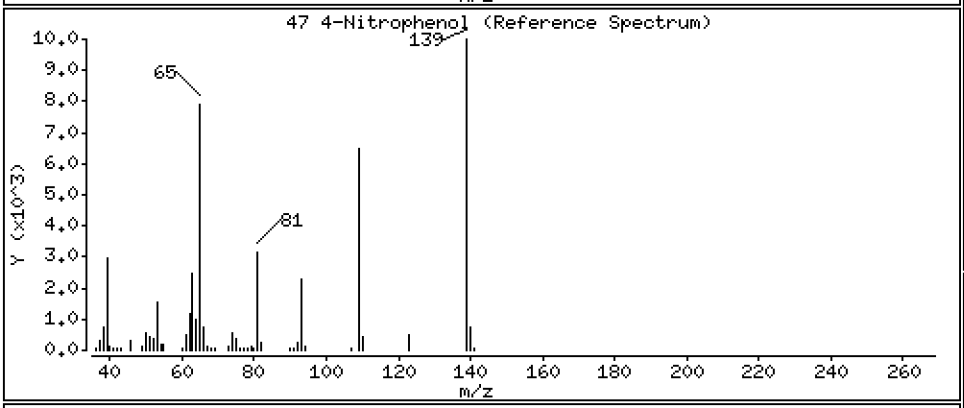
Concentration: 3.657 ug/mL

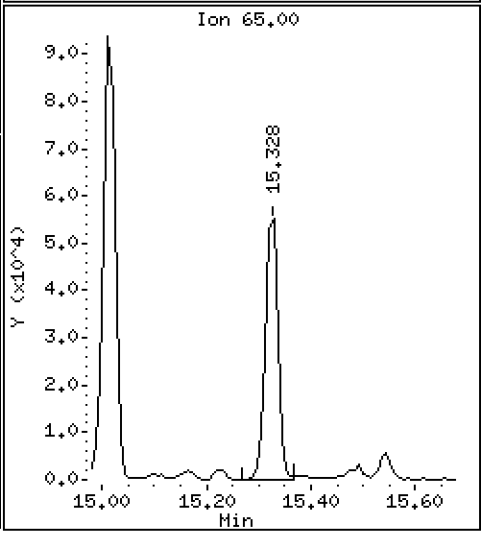


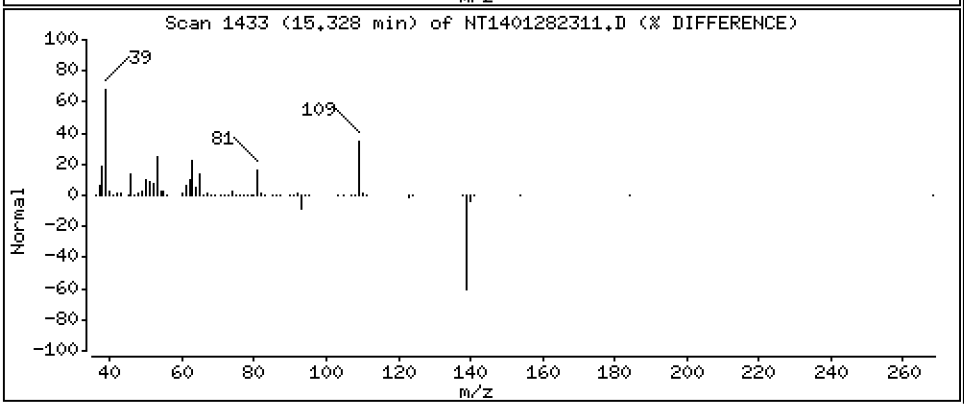












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

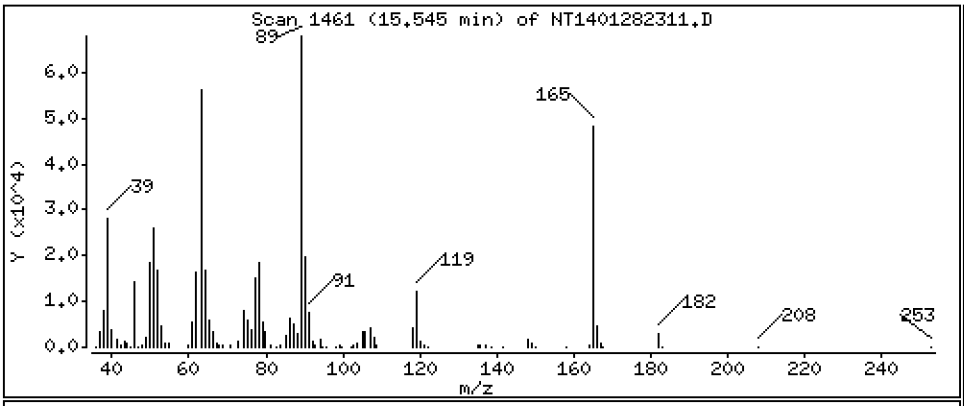
Operator: JGR

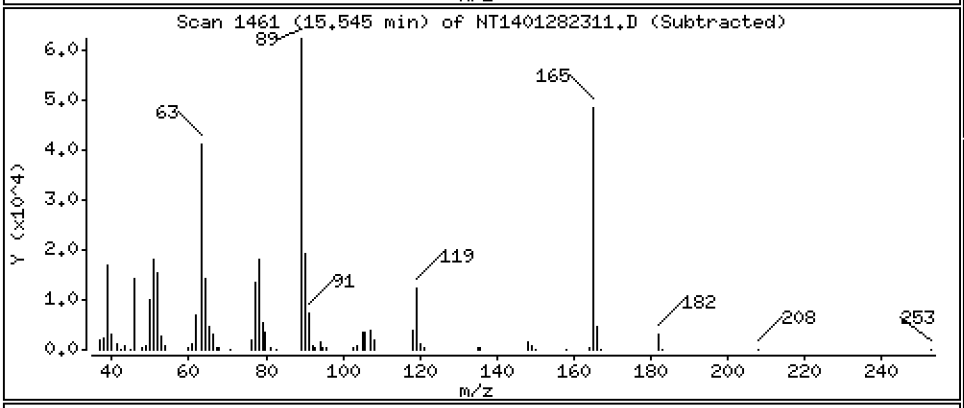
Column phase: ZB-5msi

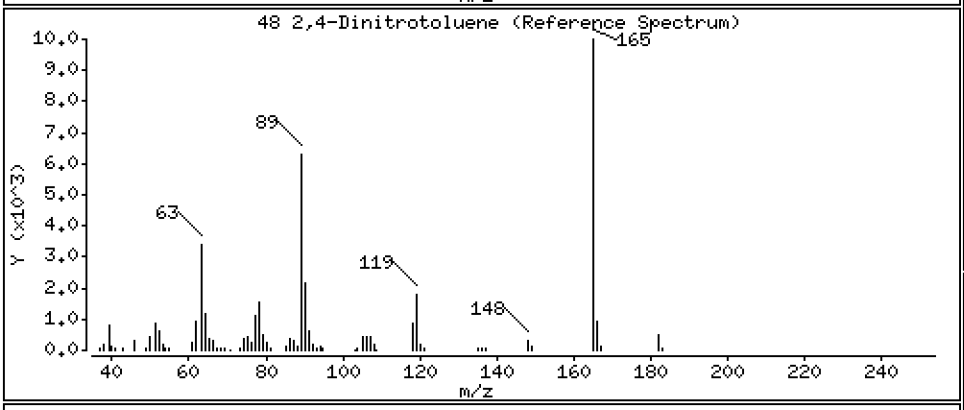
Column diameter: 0.25

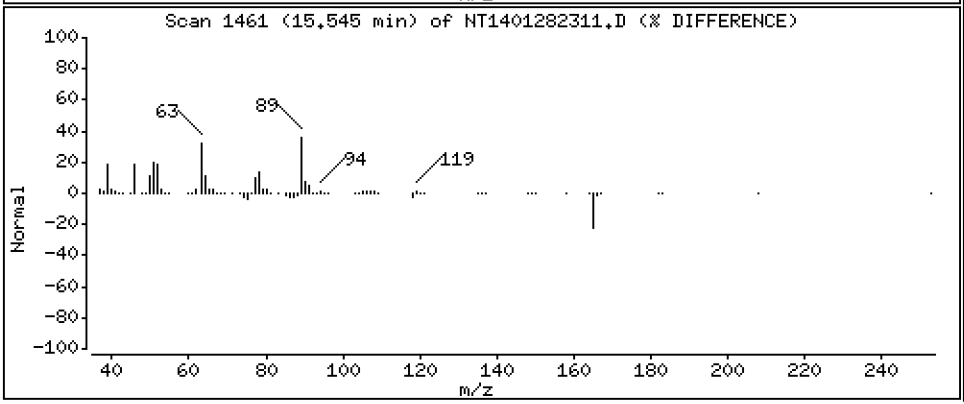
48 2,4-Dinitrotoluene

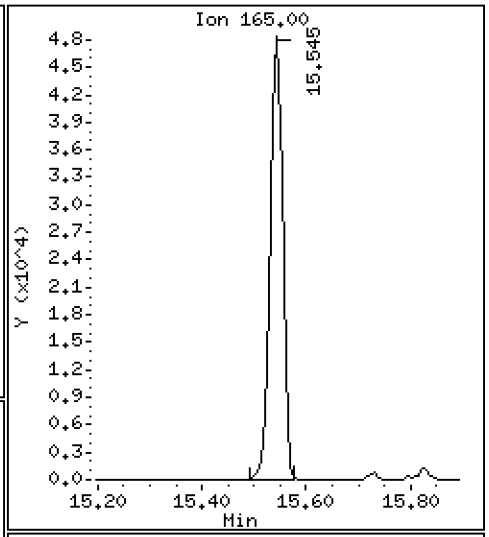
Concentration: 4.312 ug/mL

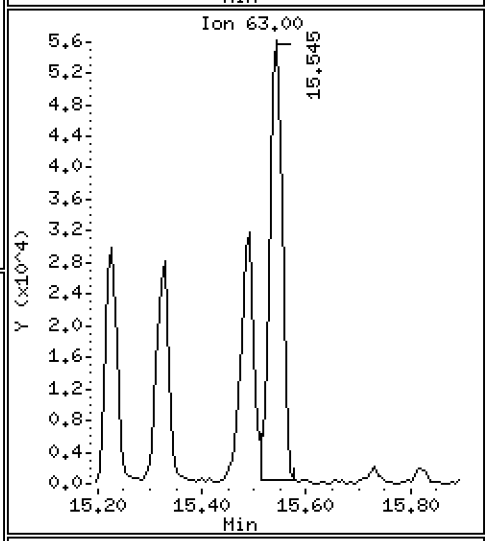


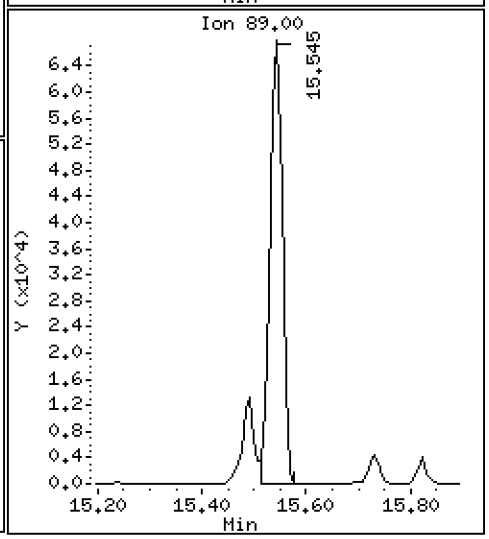












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

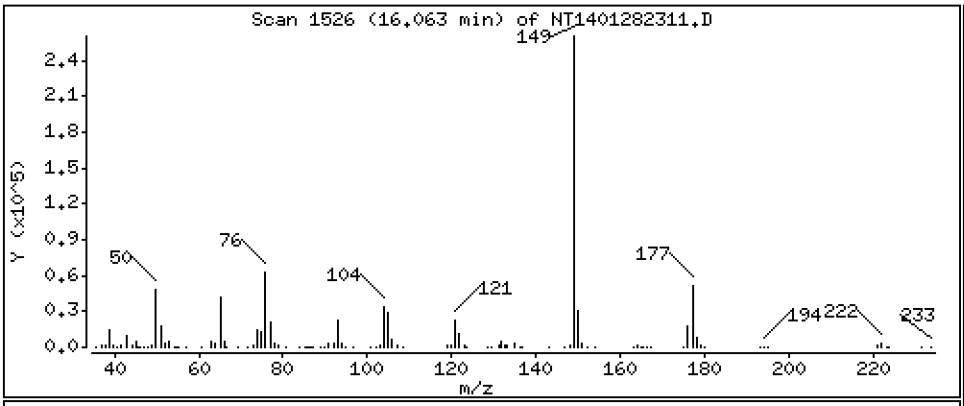
Operator: JGR

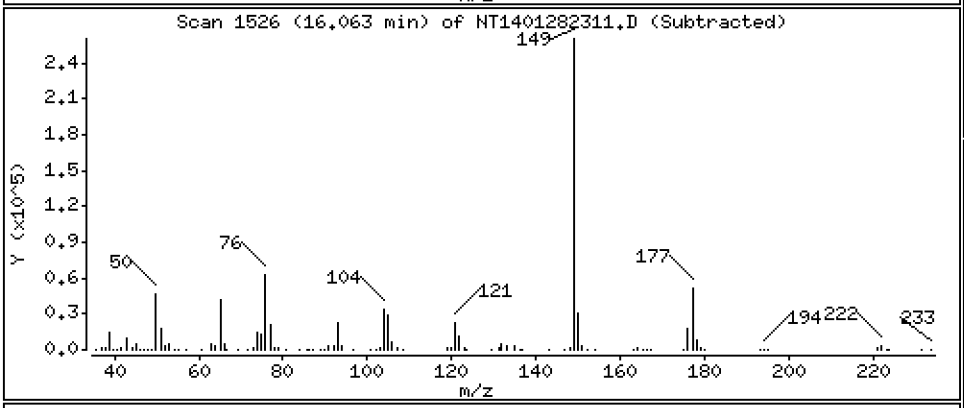
Column phase: ZB-5msi

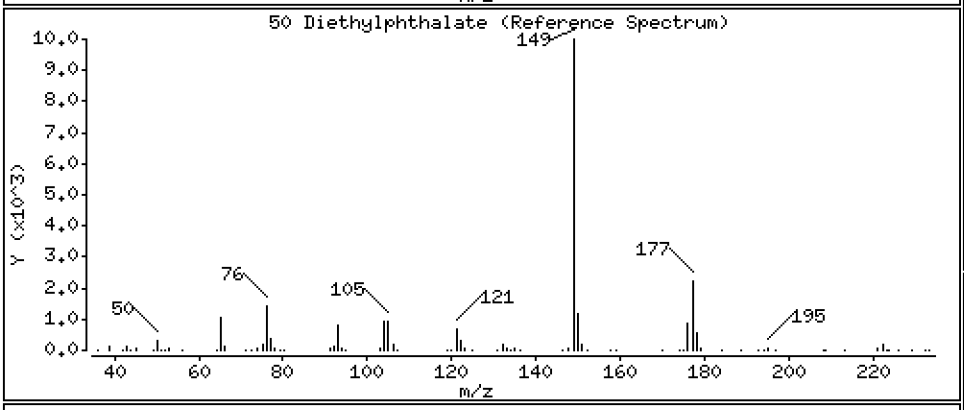
Column diameter: 0.25

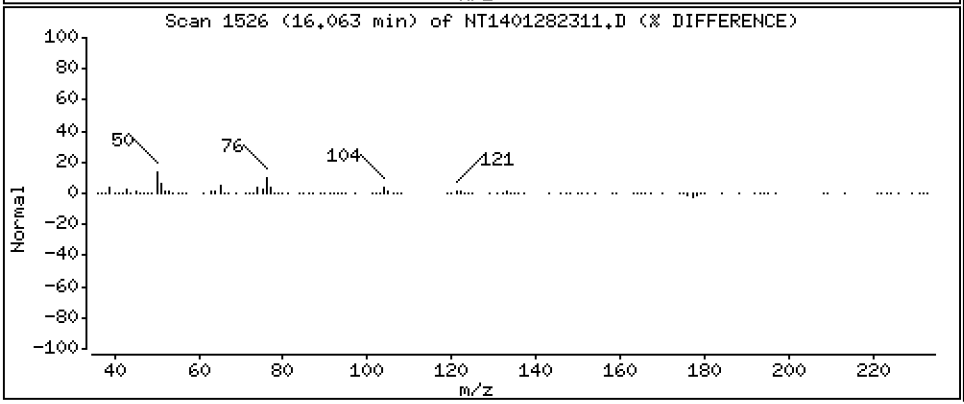
50 Diethylphthalate

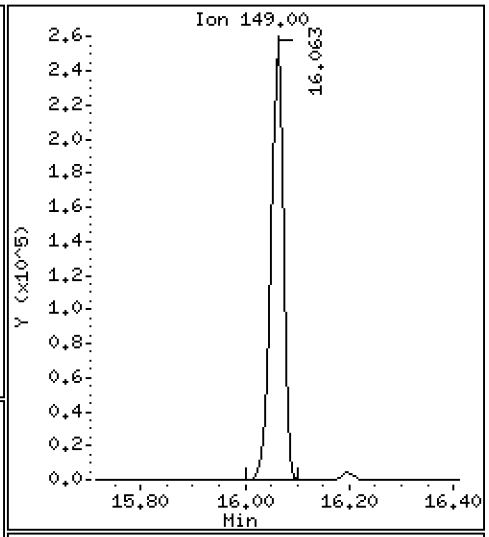
Concentration: 4.955 ug/mL

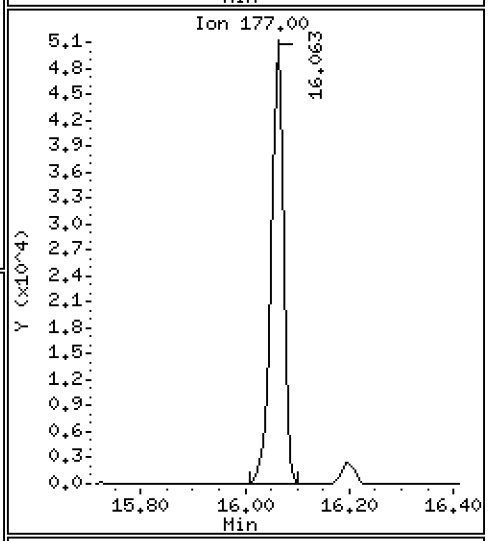


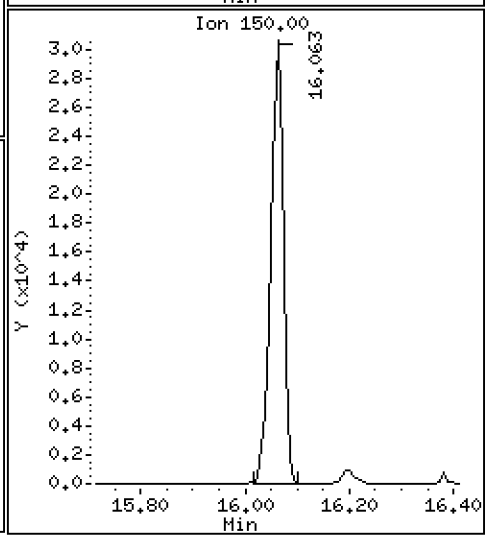












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

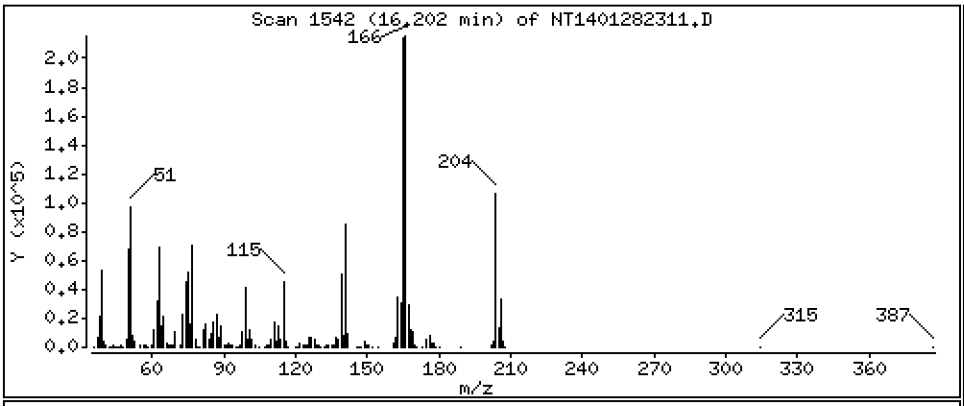
Operator: JGR

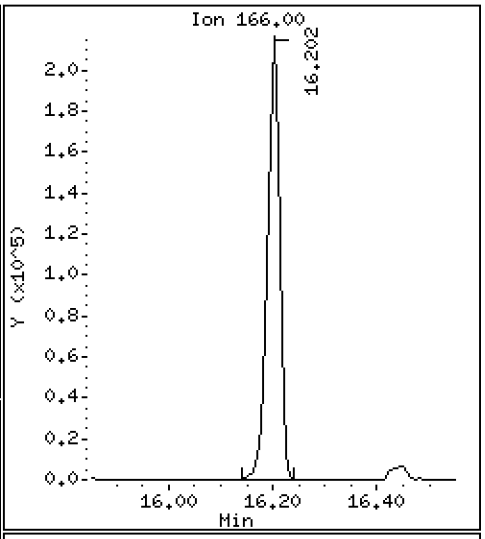
Column phase: ZB-5msi

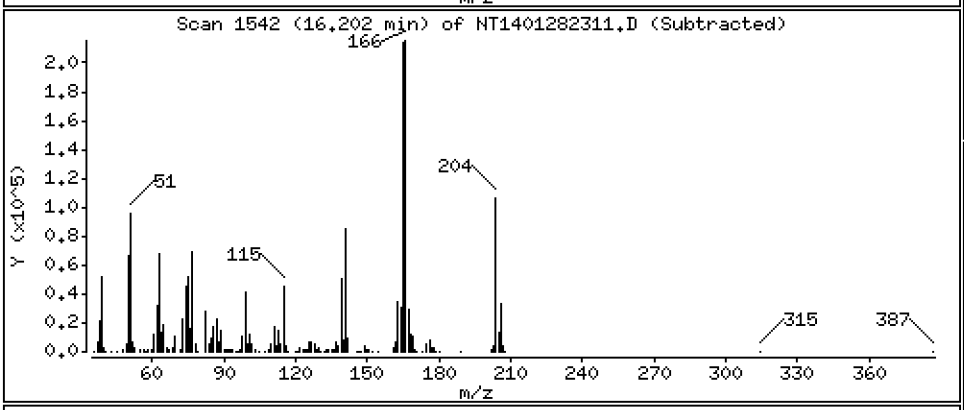
Column diameter: 0.25

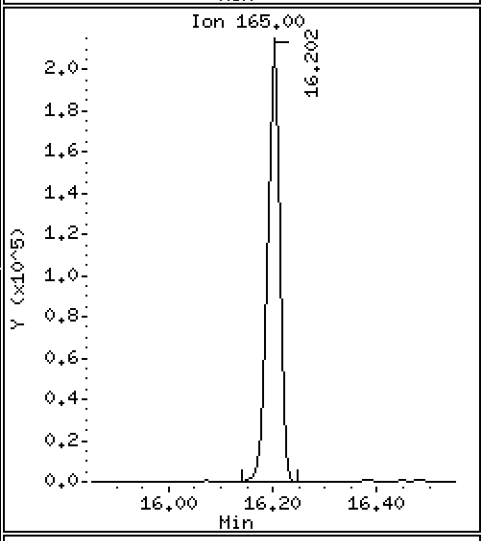
49 Fluorene

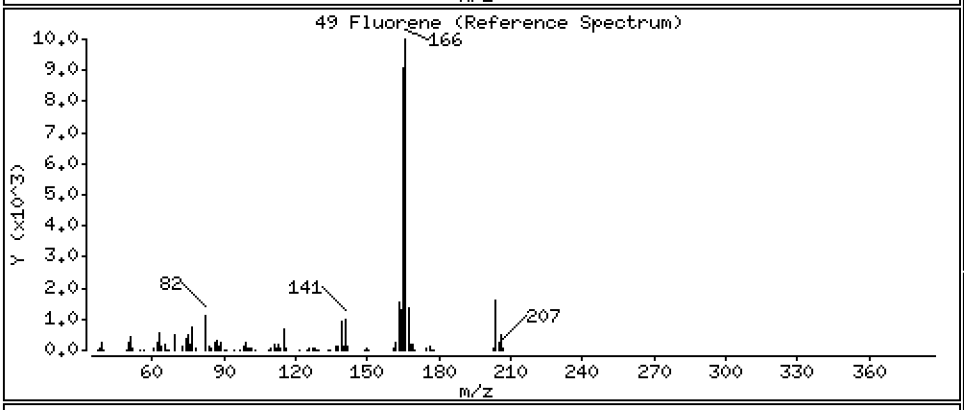
Concentration: 4.724 ug/mL

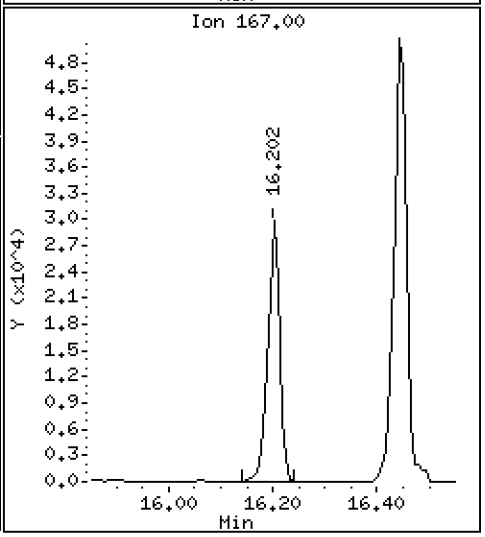


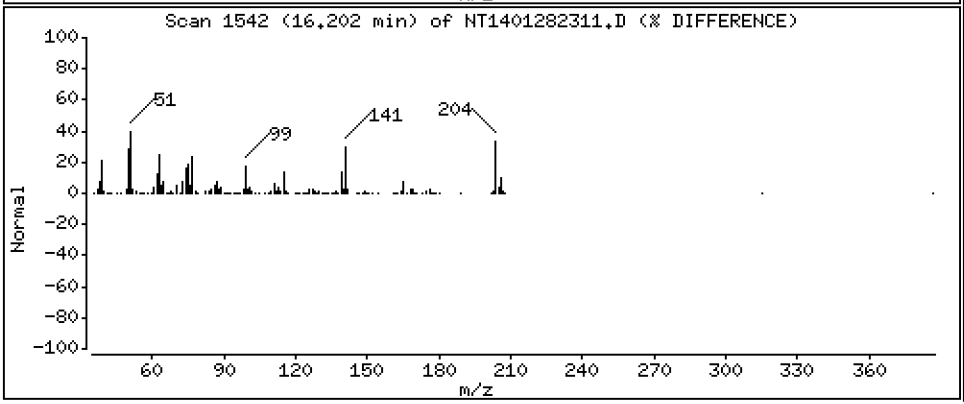












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

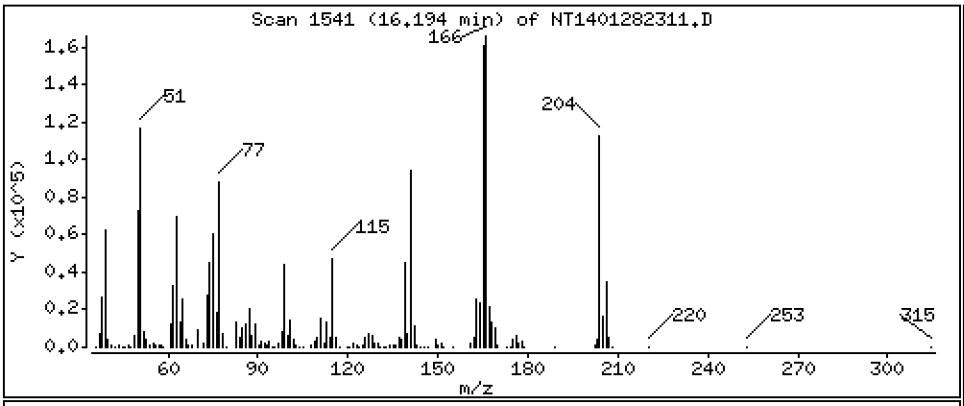
Operator: JGR

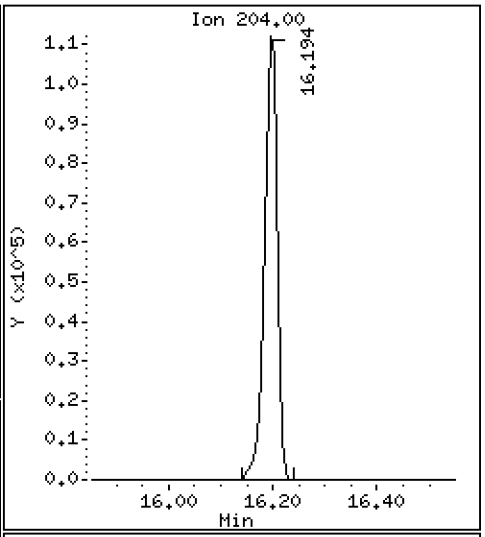
Column phase: ZB-5msi

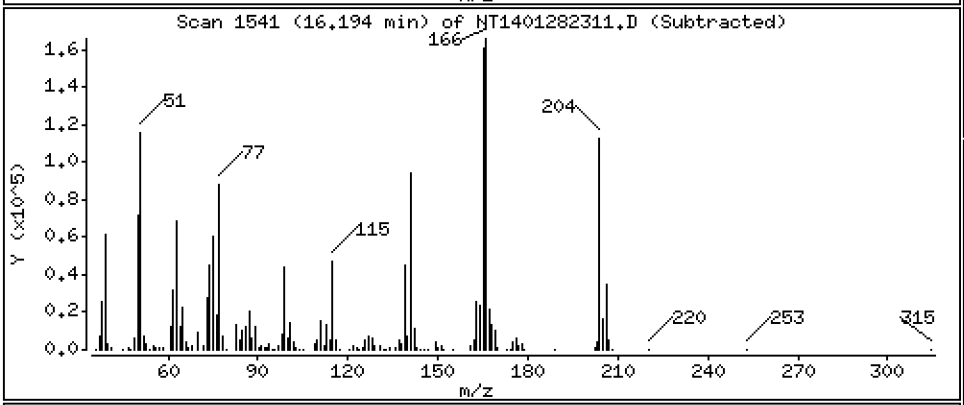
Column diameter: 0.25

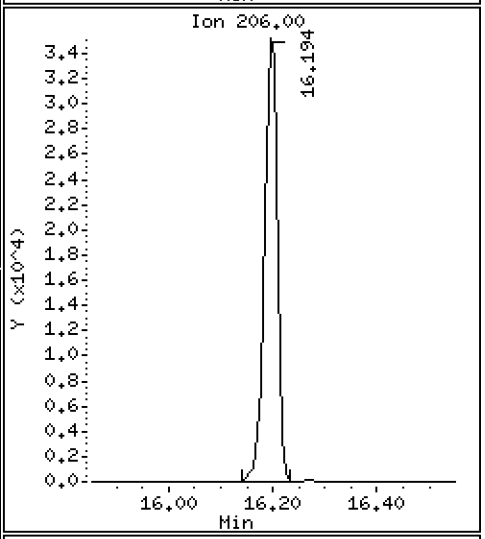
51 4-Chlorophenyl-phenylether

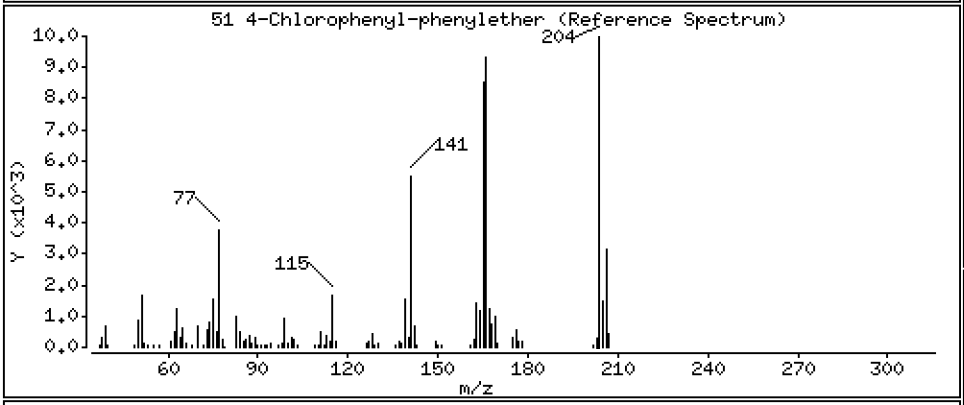
Concentration: 4.484 ug/mL

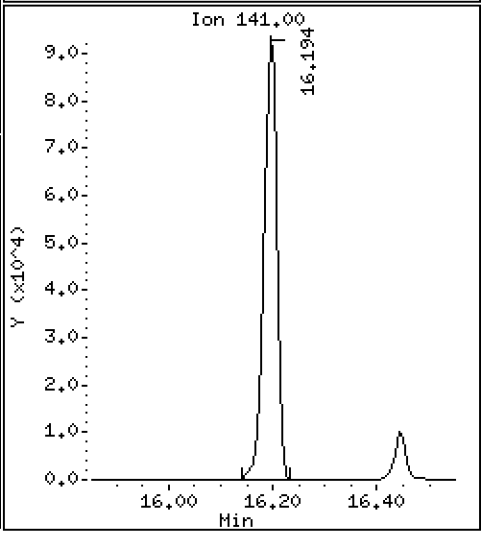


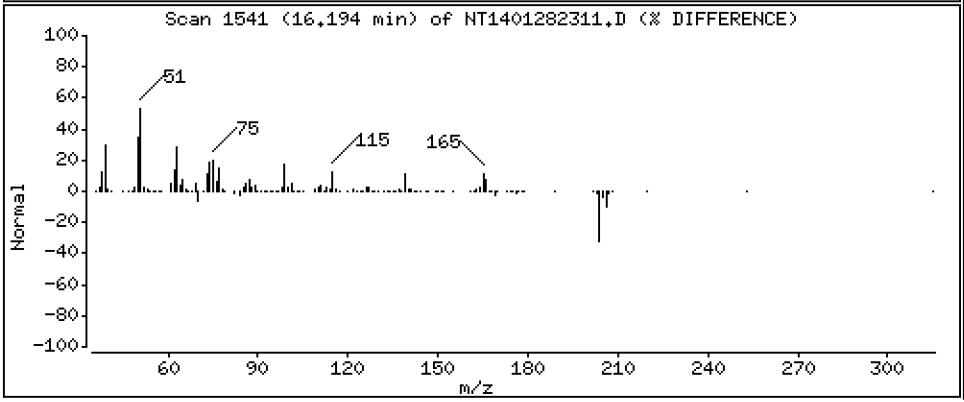












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

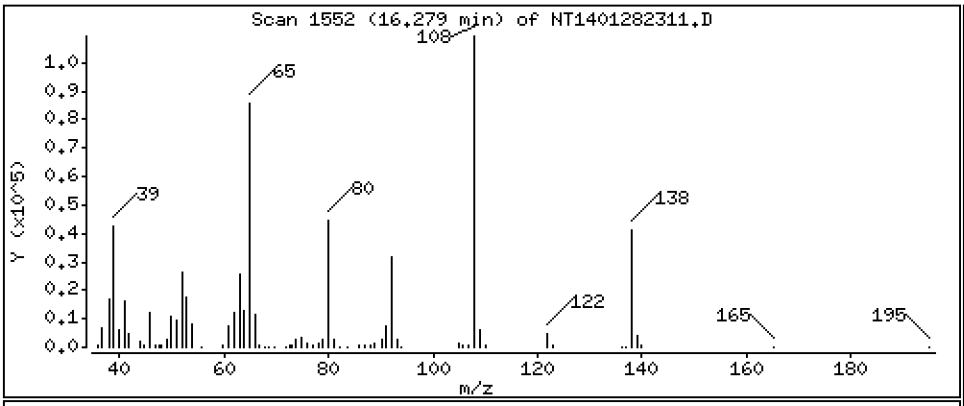
Operator: JGR

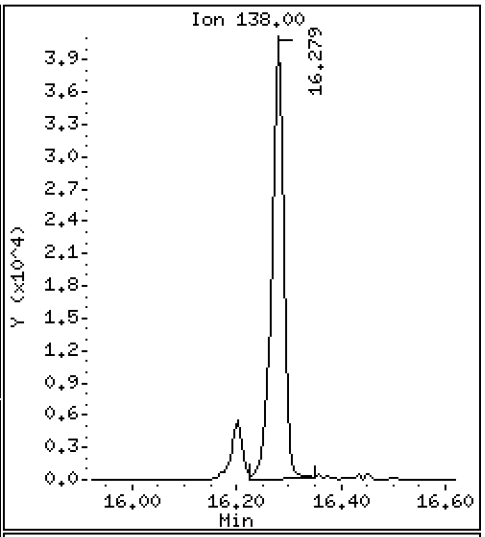
Column phase: ZB-5msi

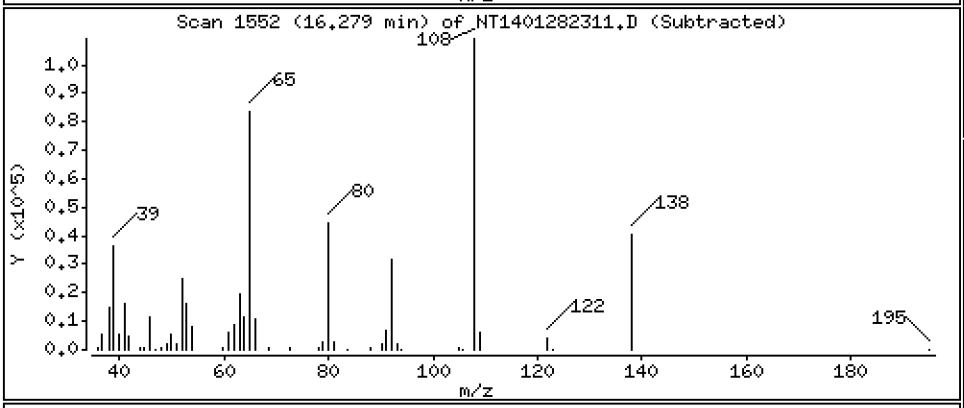
Column diameter: 0.25

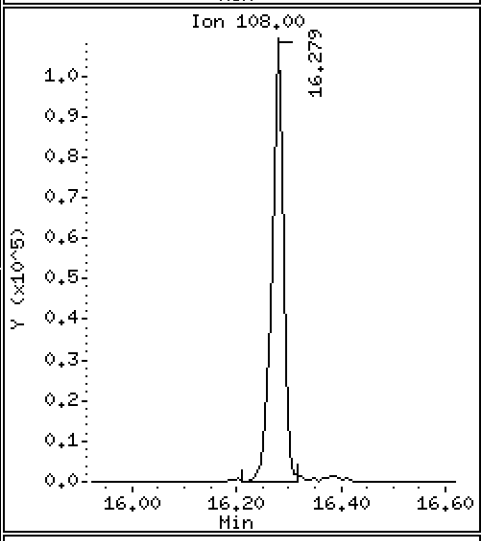
52 4-Nitroaniline

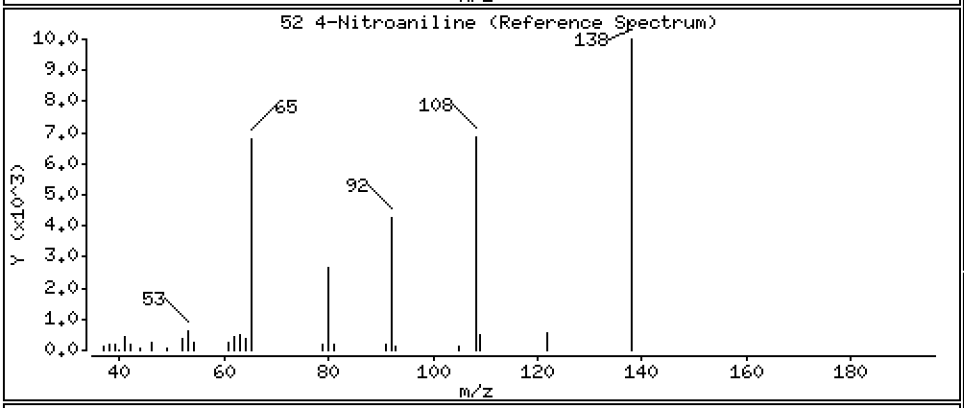
Concentration: 4.505 ug/mL

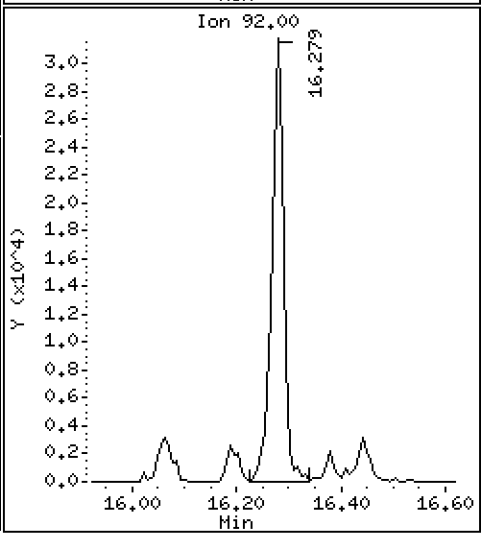


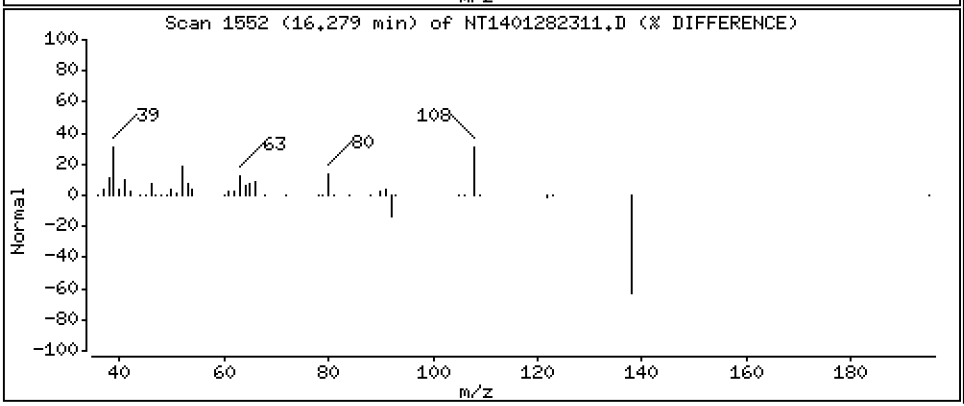












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

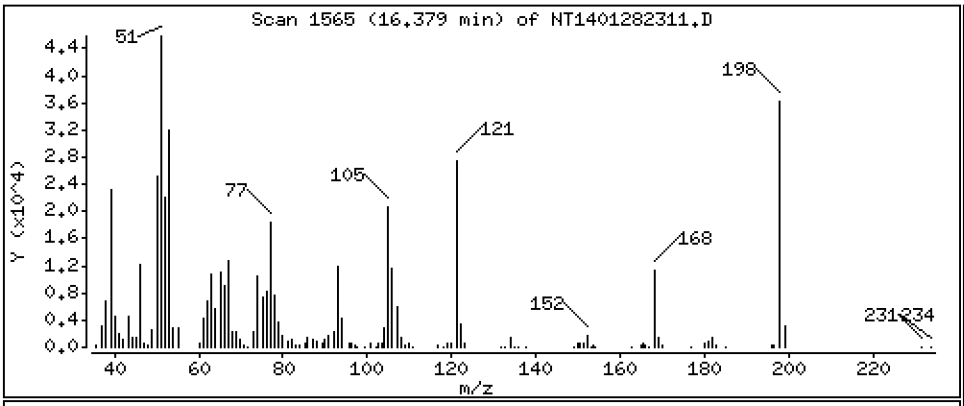
Operator: JGR

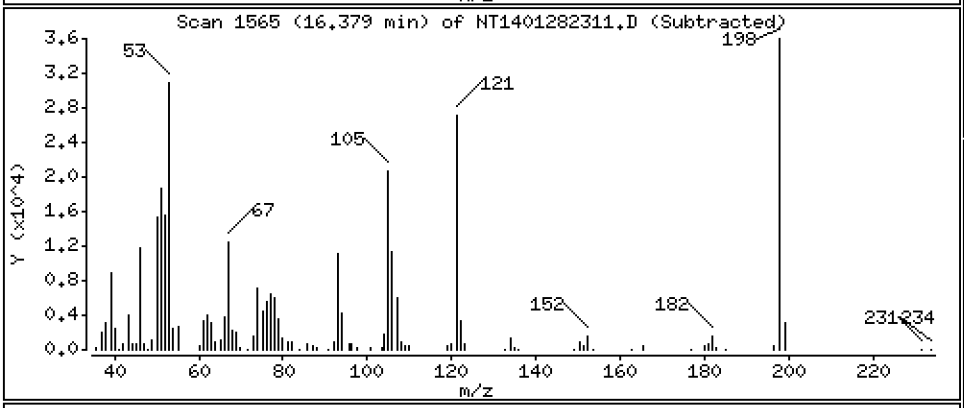
Column phase: ZB-5msi

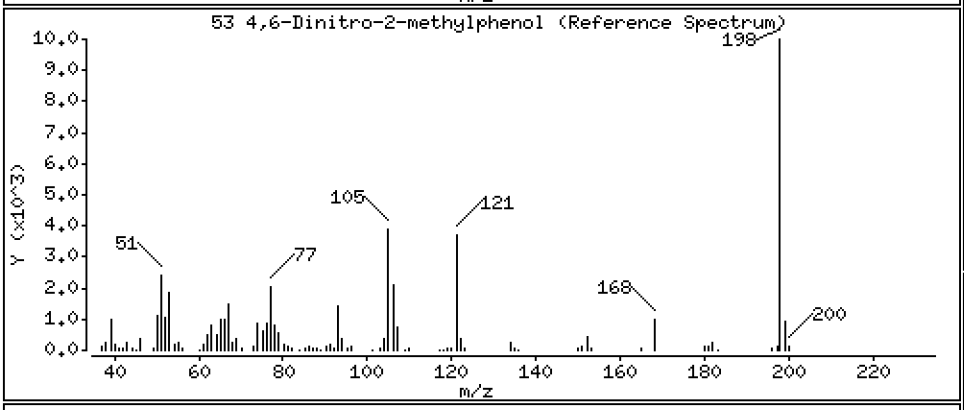
Column diameter: 0.25

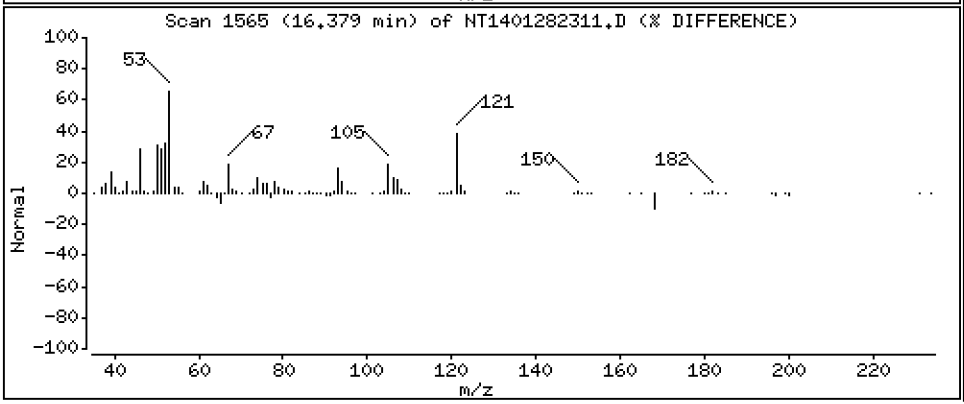
53 4,6-Dinitro-2-methylphenol

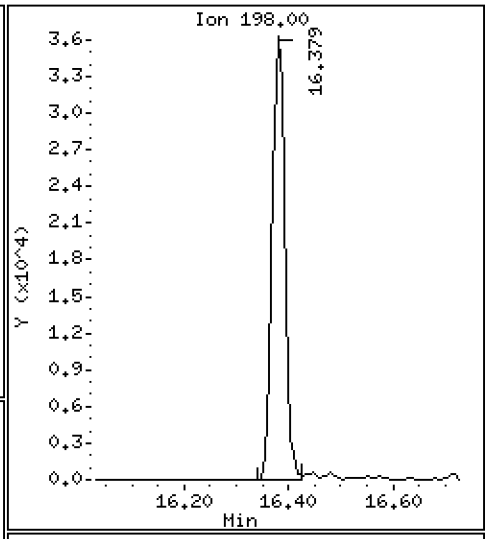
Concentration: 3.422 ug/mL

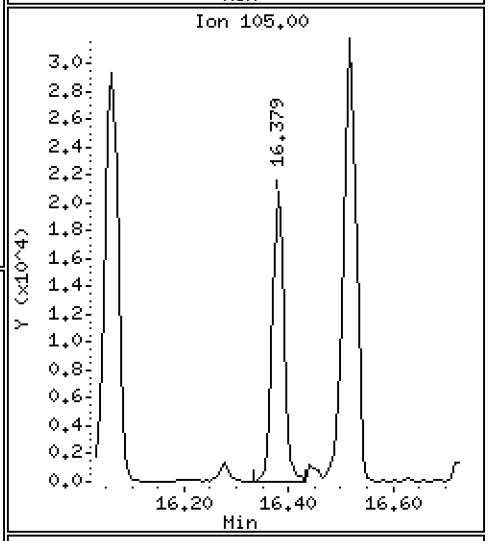


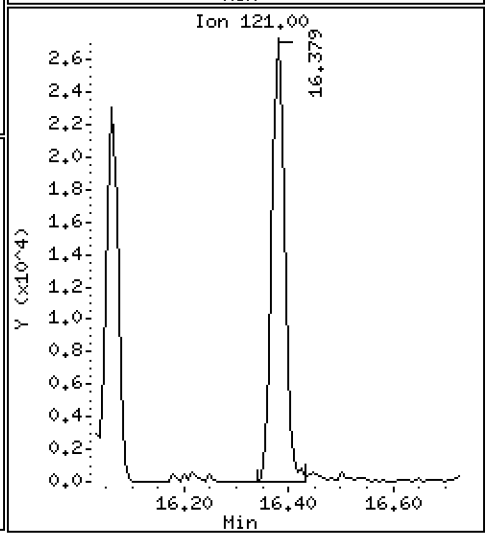












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

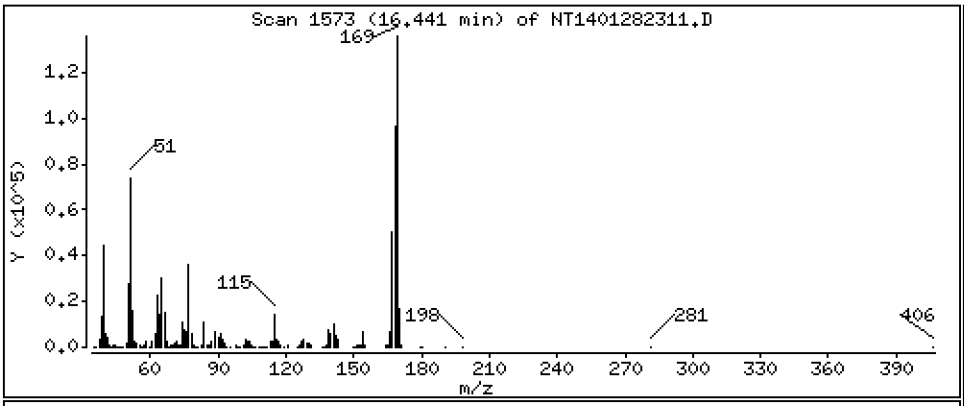
Operator: JGR

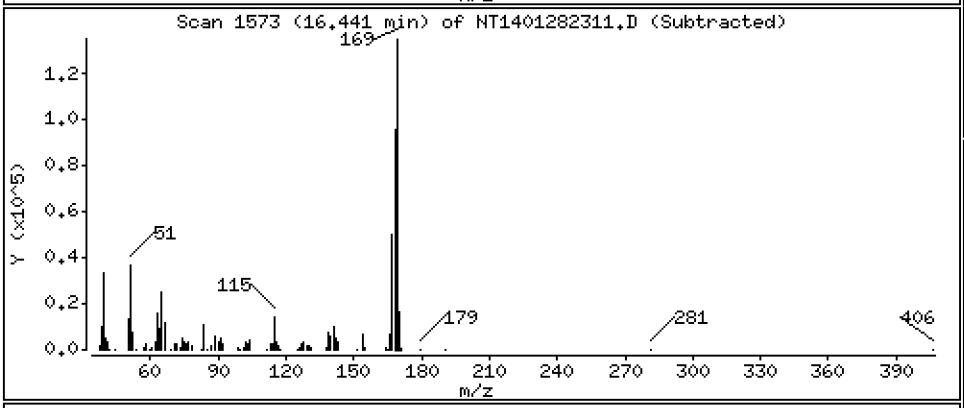
Column phase: ZB-5msi

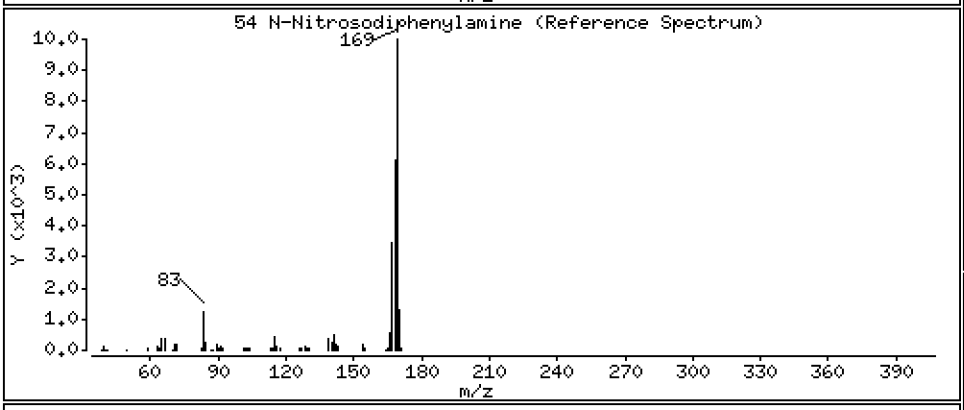
Column diameter: 0.25

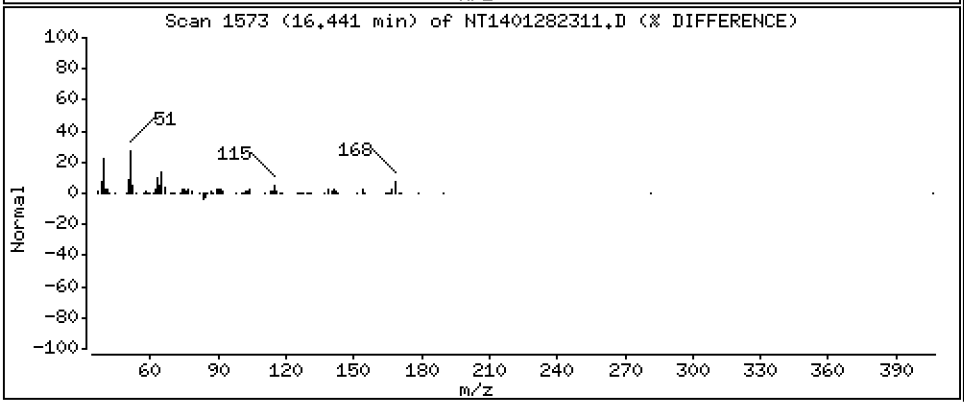
54 N-Nitrosodiphenylamine

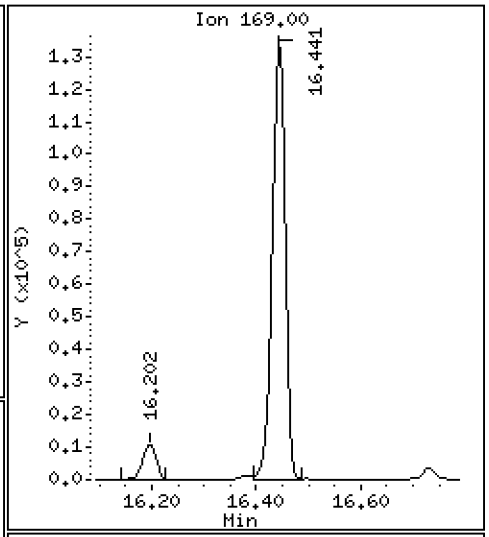
Concentration: 4.528 ug/mL

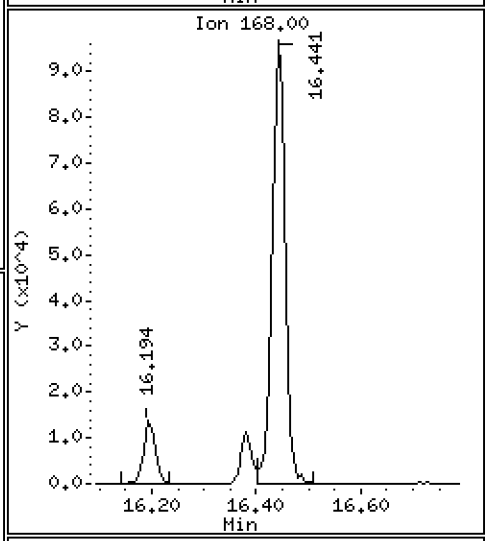


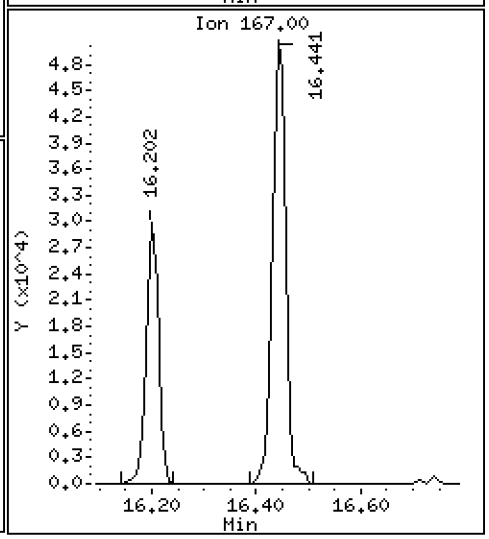












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

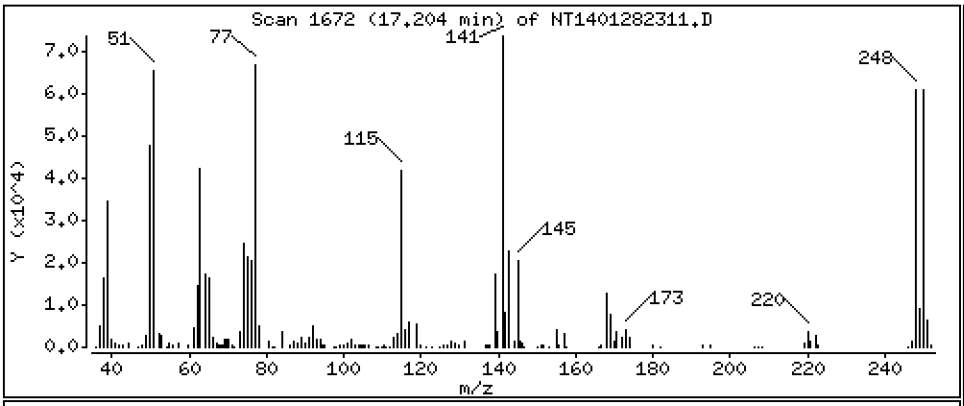
Operator: JGR

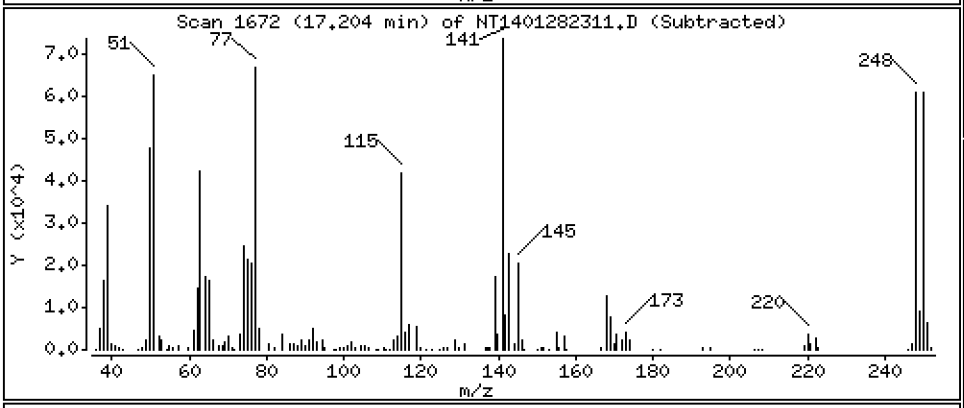
Column phase: ZB-5msi

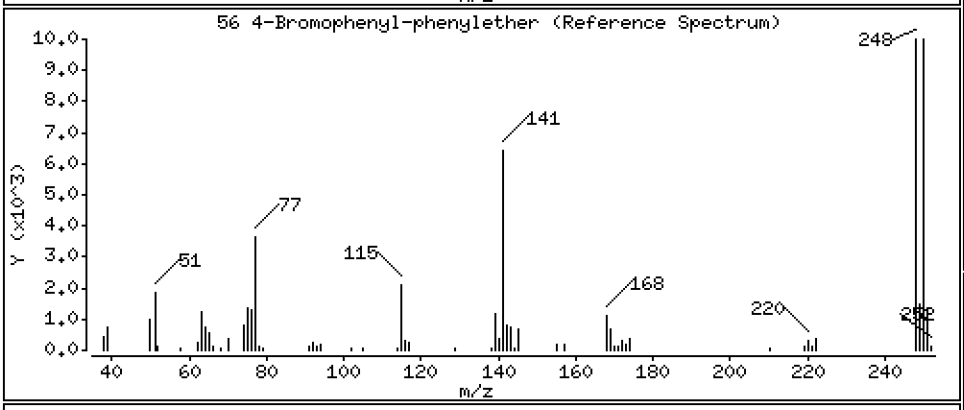
Column diameter: 0.25

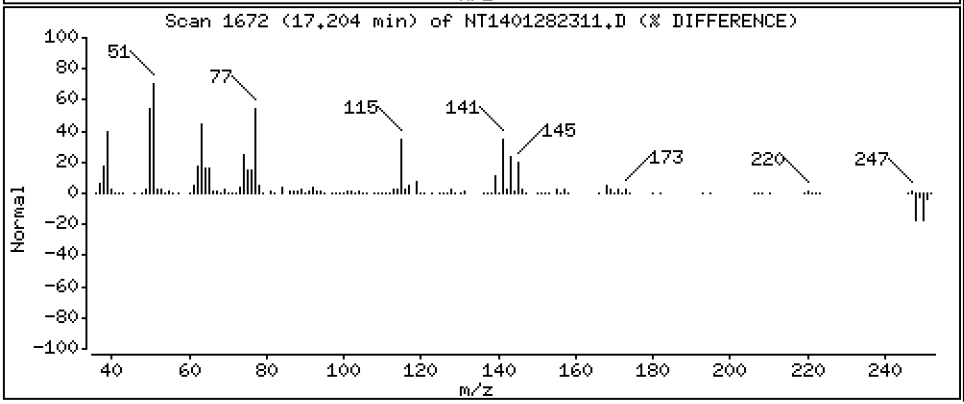
56 4-Bromophenyl-phenylether

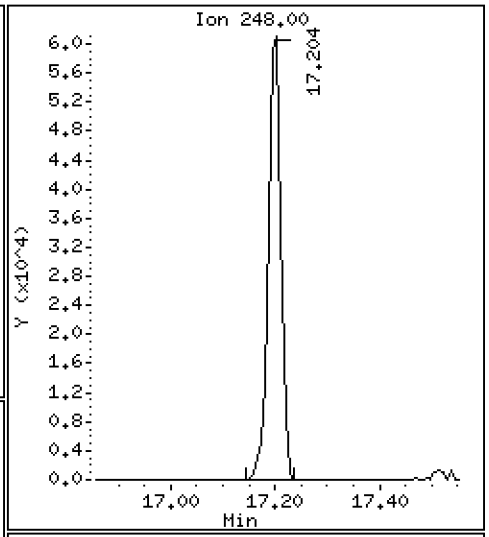
Concentration: 4.577 ug/mL

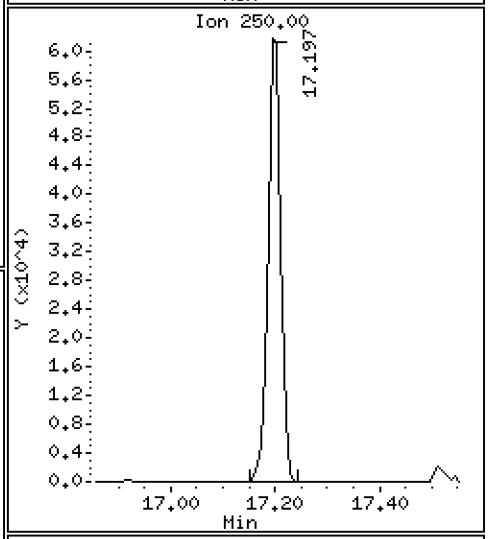


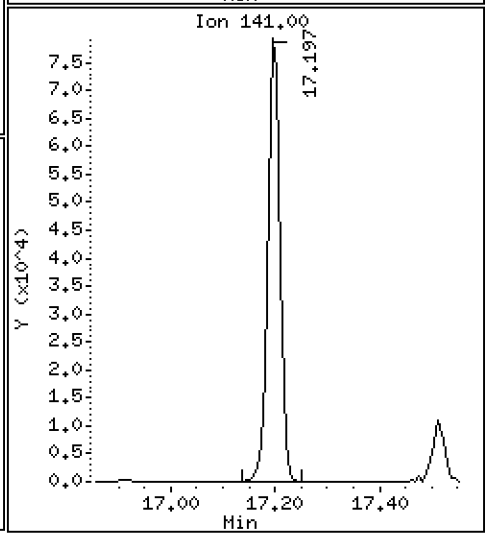












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

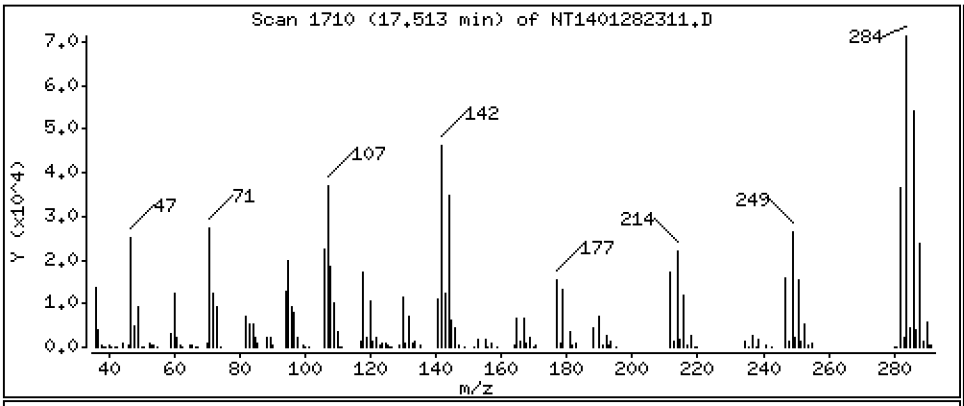
Operator: JGR

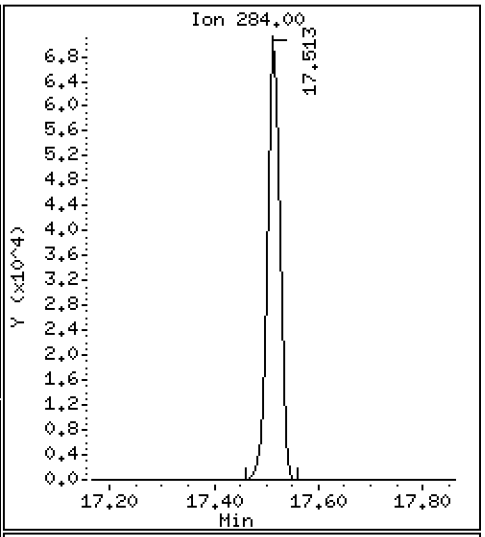
Column phase: ZB-5msi

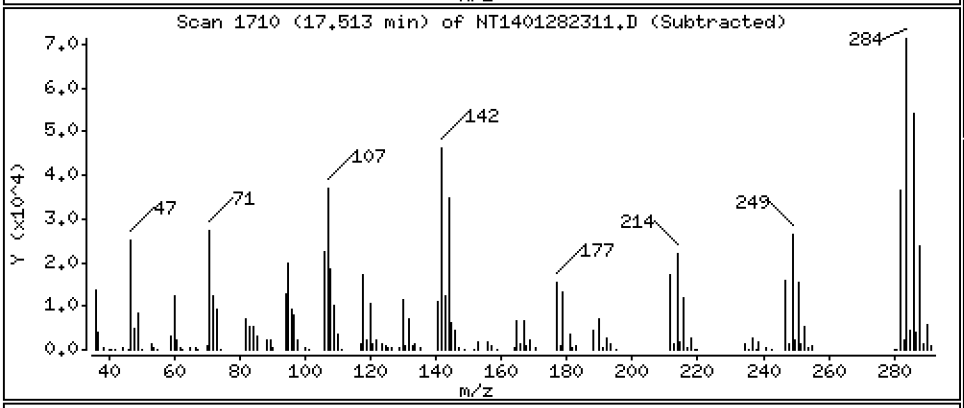
Column diameter: 0.25

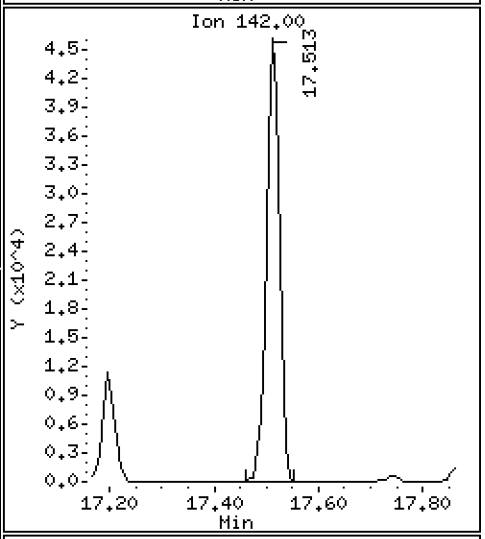
57 Hexachlorobenzene

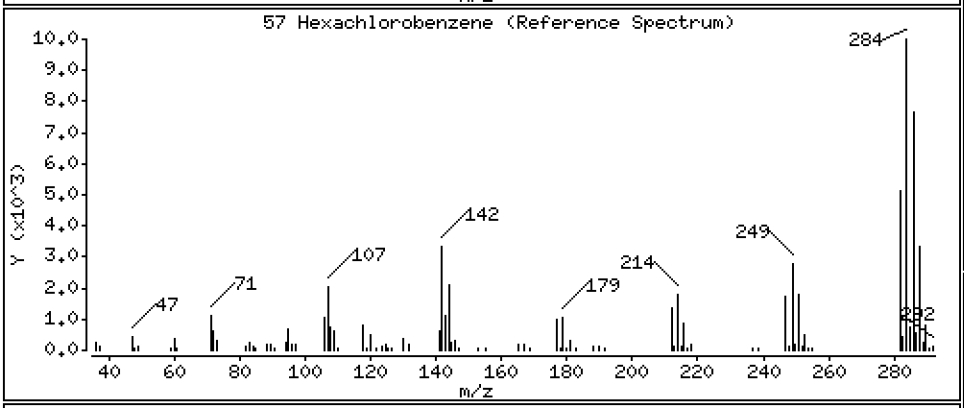
Concentration: 4.453 ug/mL

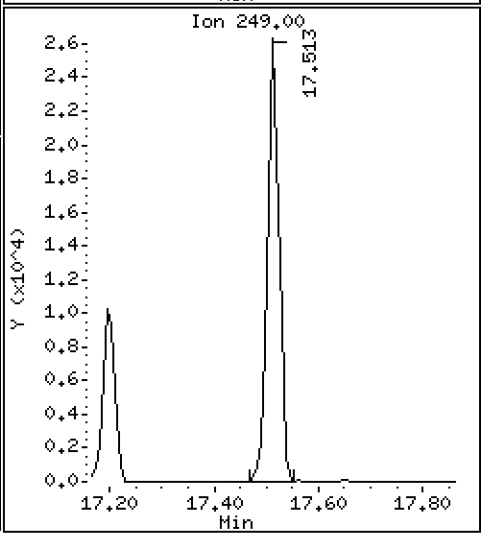


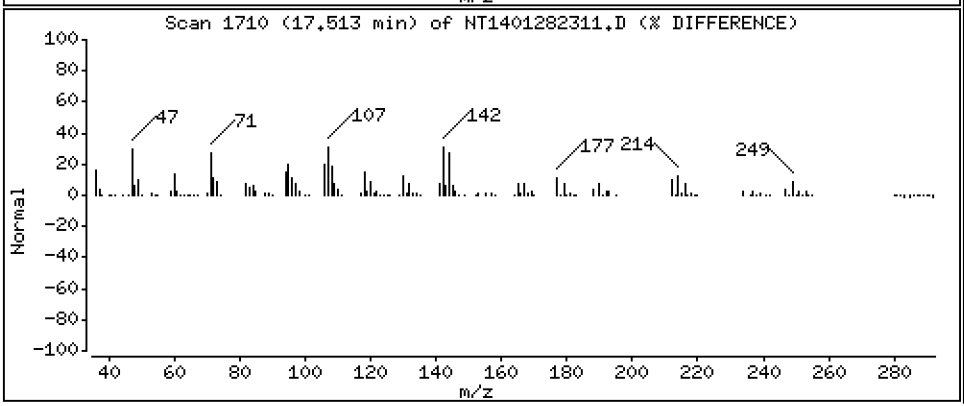












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

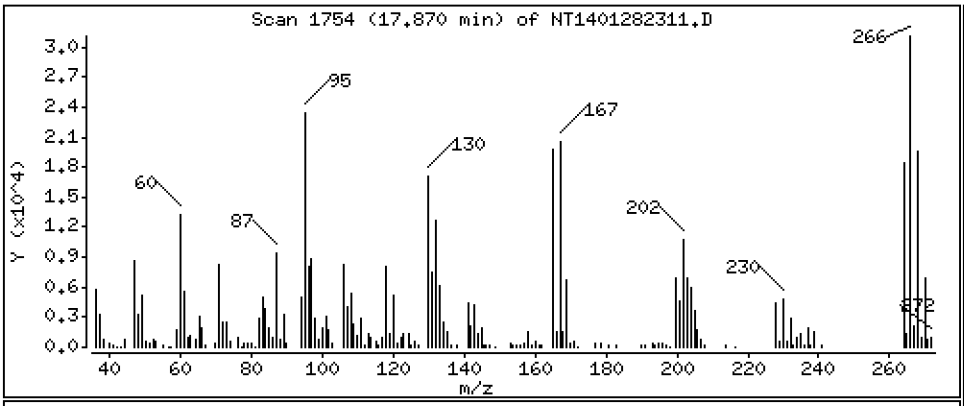
Operator: JGR

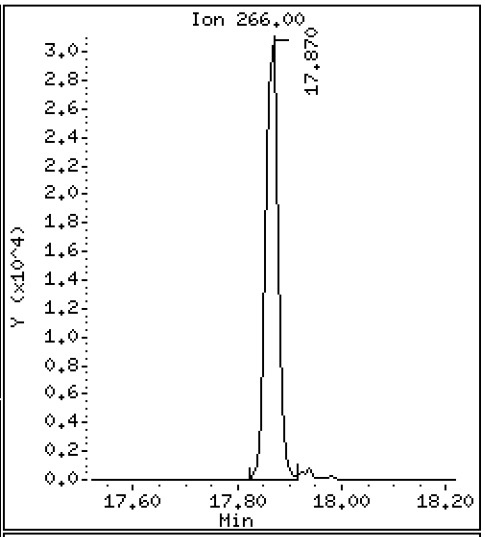
Column phase: ZB-5msi

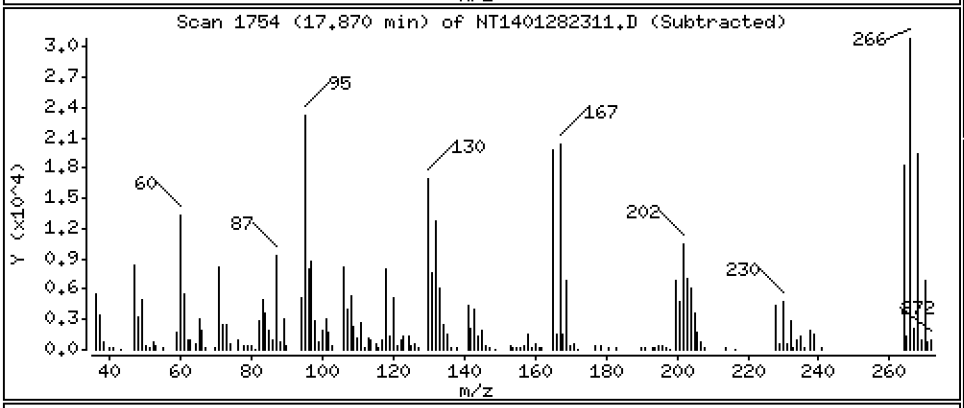
Column diameter: 0.25

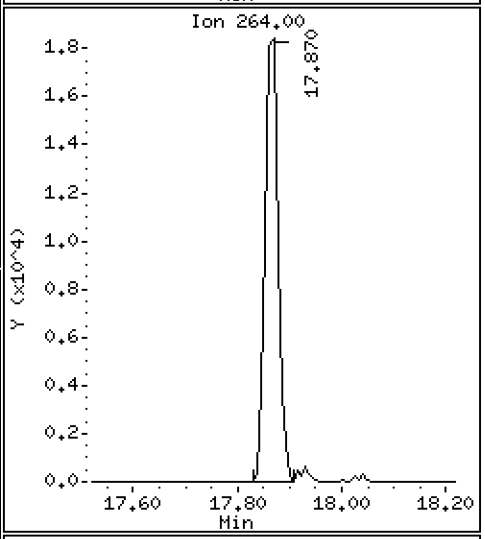
58 Pentachlorophenol

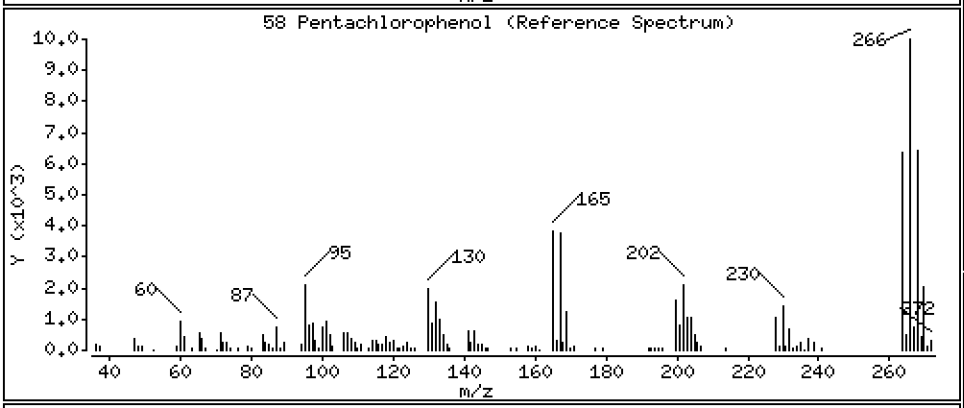
Concentration: 3.439 ug/mL

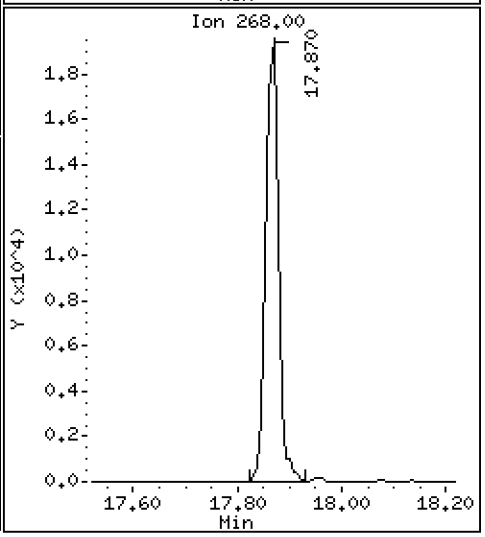


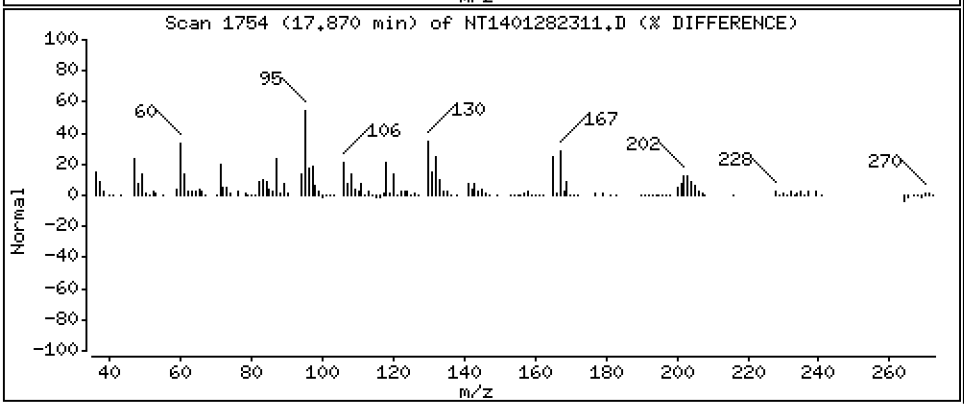












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

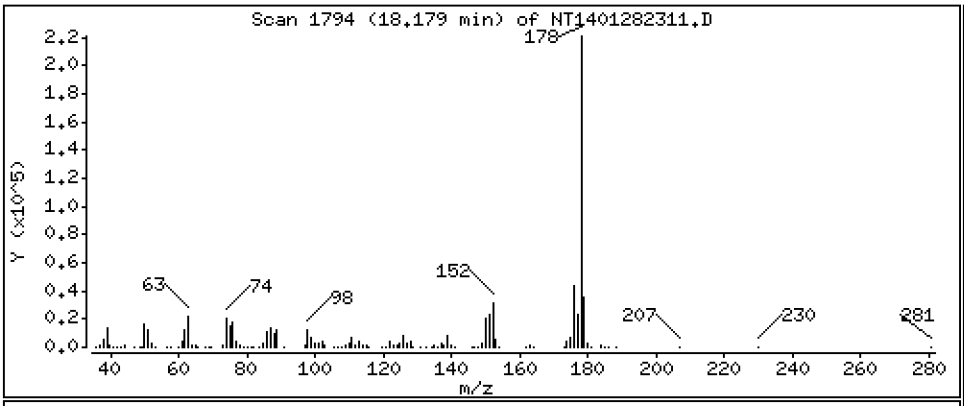
Operator: JGR

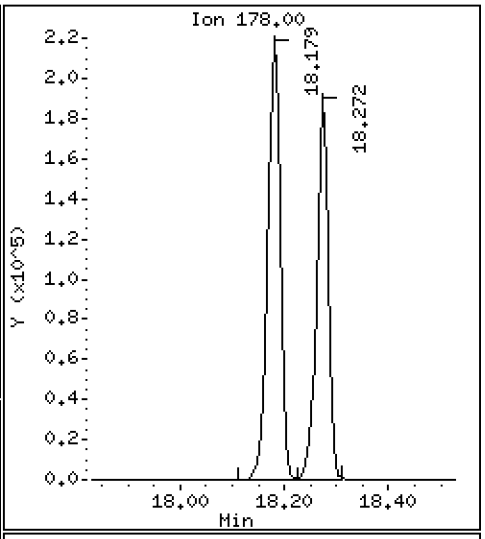
Column phase: ZB-5msi

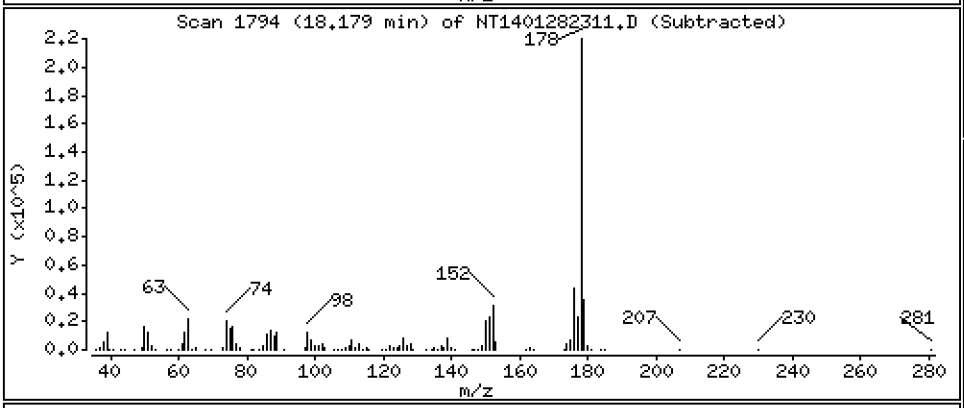
Column diameter: 0.25

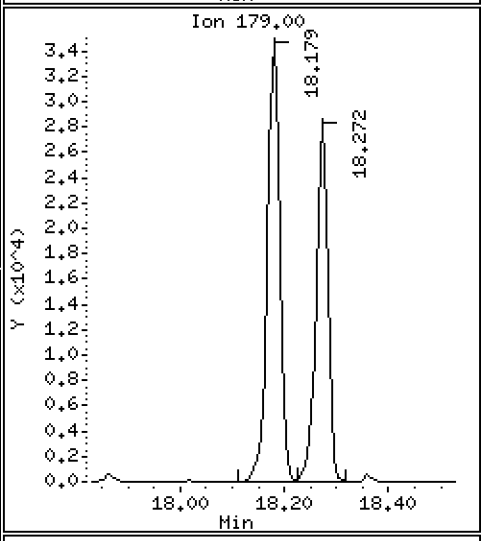
60 Phenanthrene

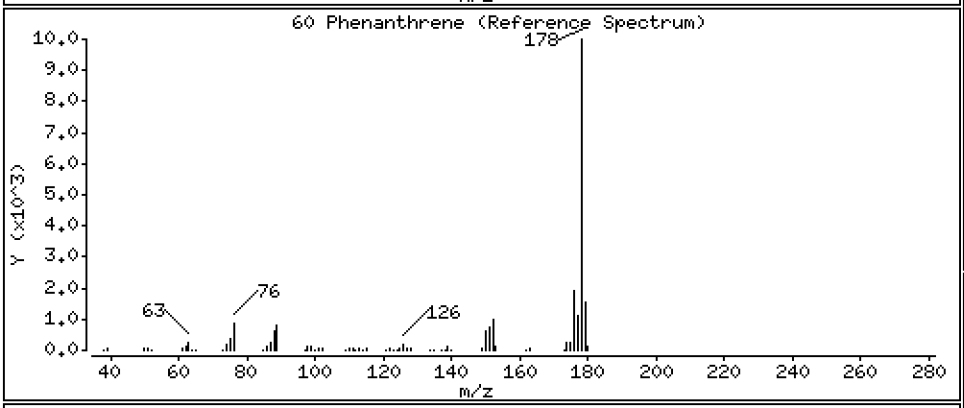
Concentration: 4.554 ug/mL

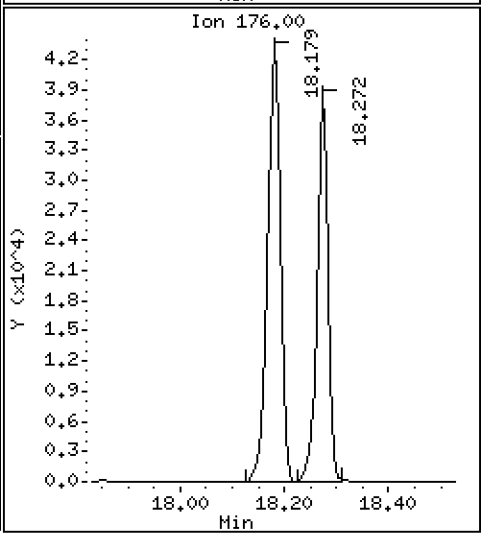


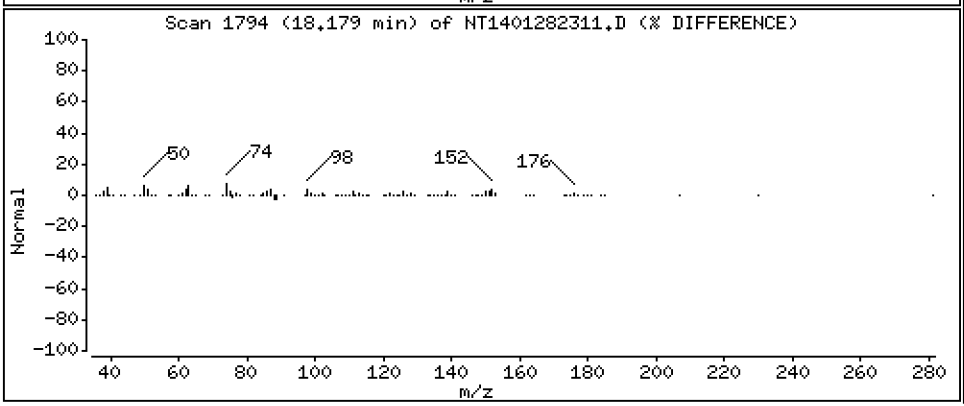












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

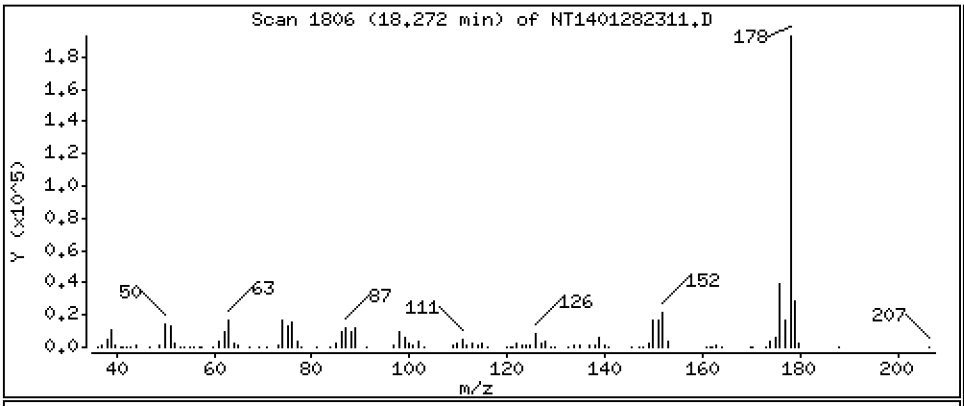
Operator: JGR

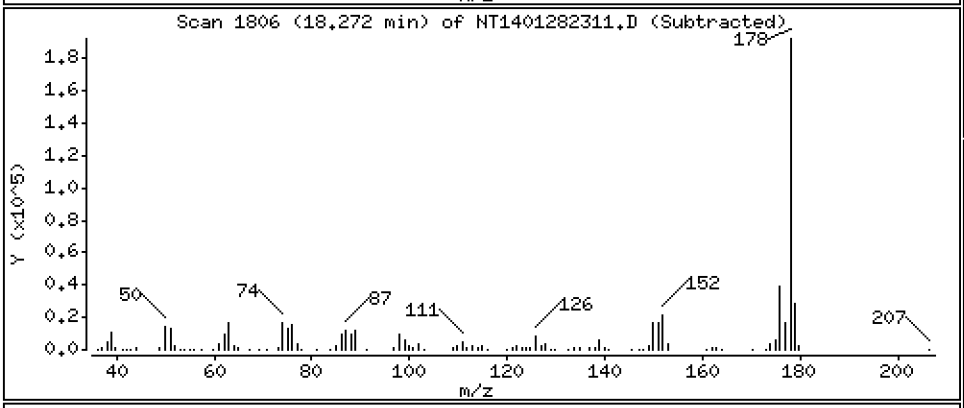
Column phase: ZB-5msi

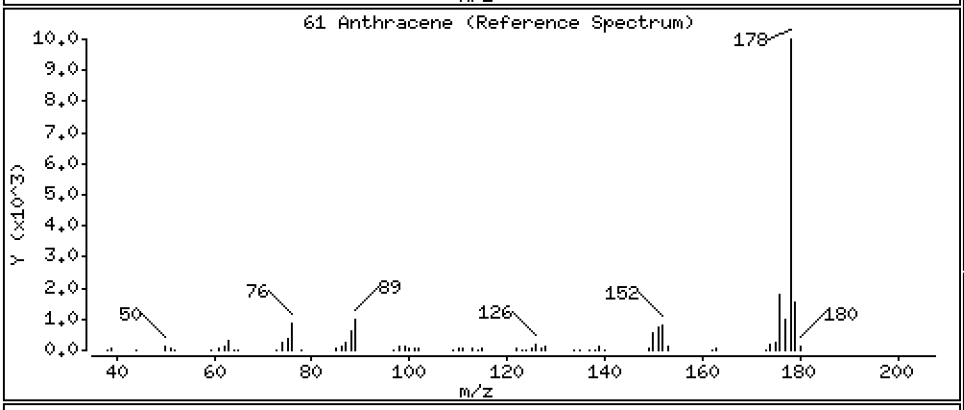
Column diameter: 0.25

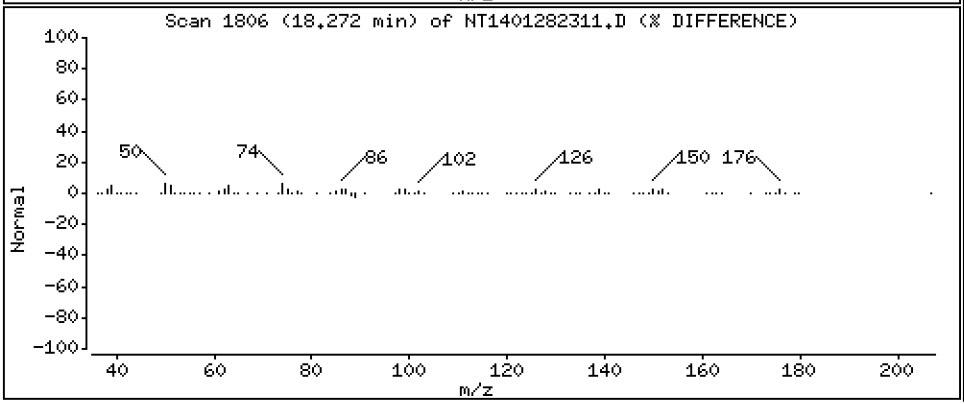
61 Anthracene

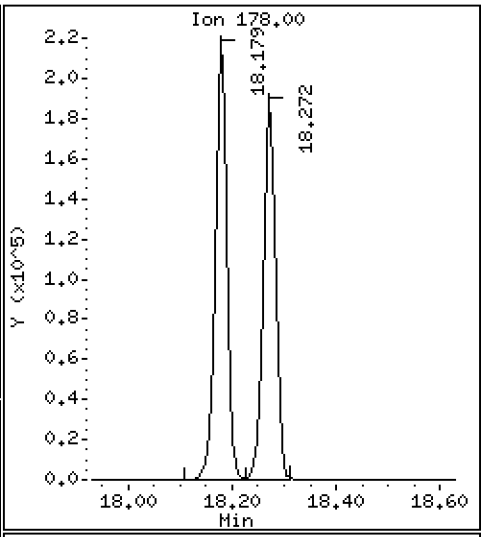
Concentration: 4.062 ug/mL

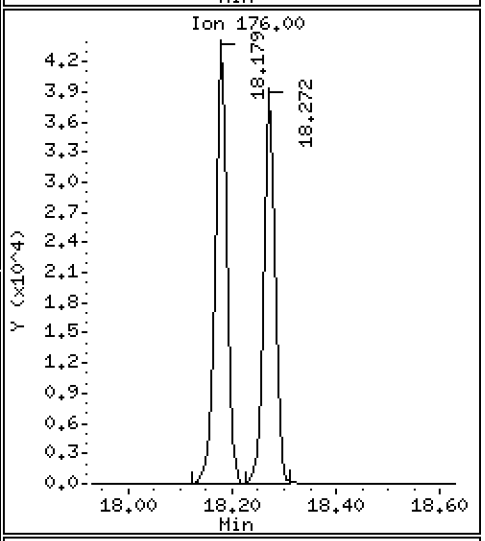


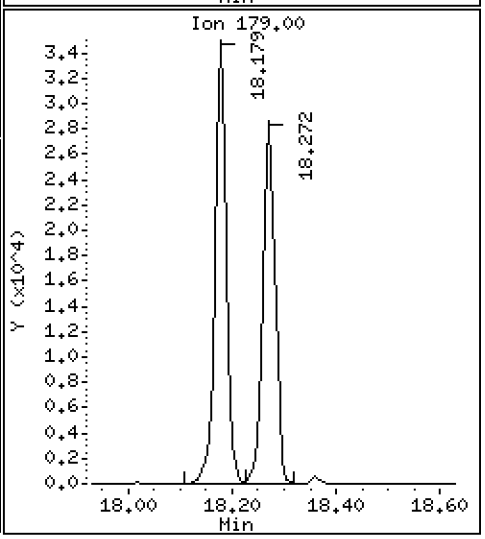












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

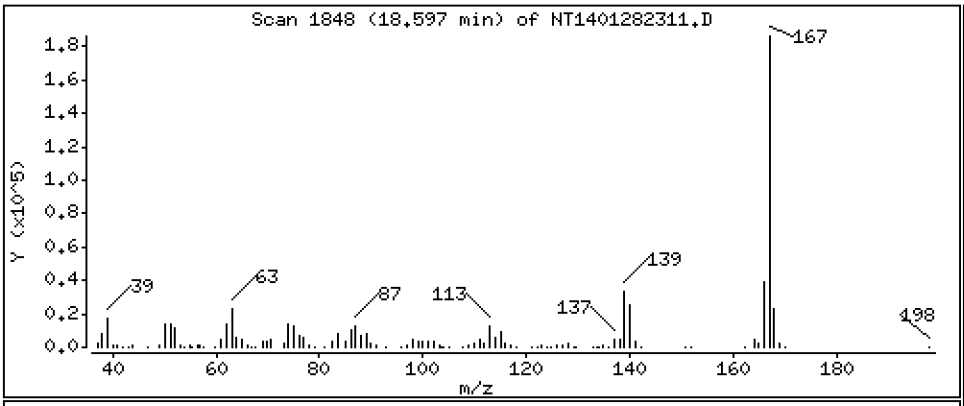
Operator: JGR

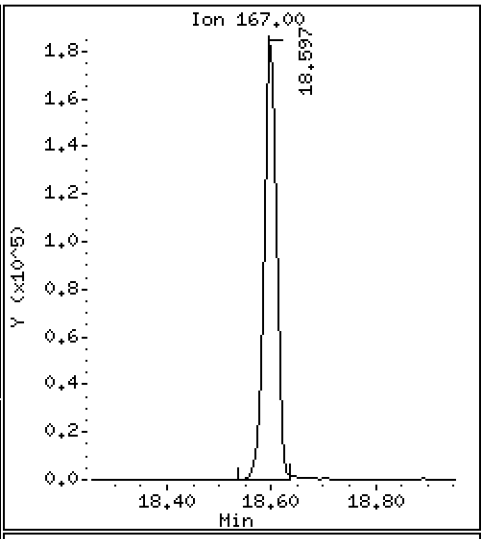
Column phase: ZB-5msi

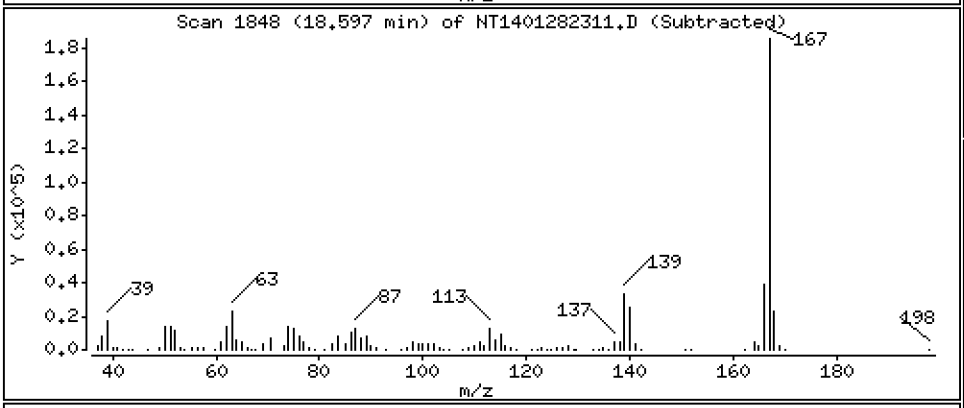
Column diameter: 0.25

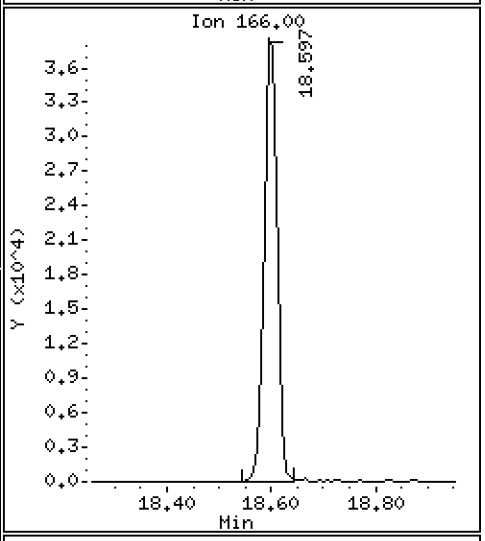
62 Carbazole

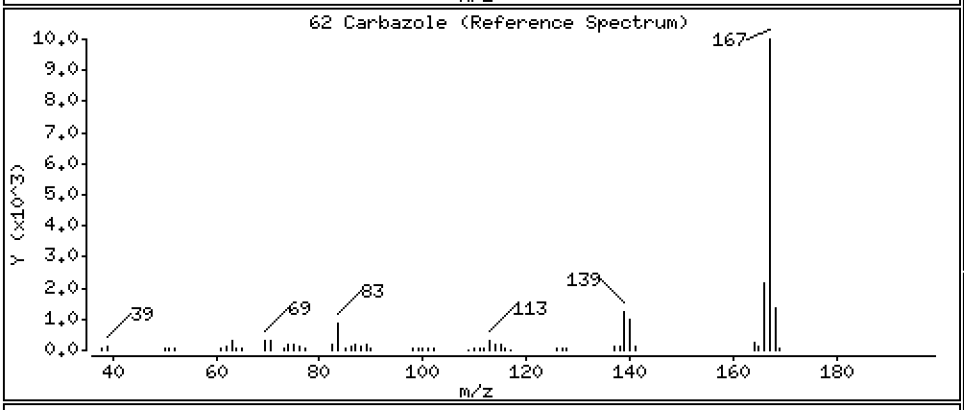
Concentration: 4.384 ug/mL

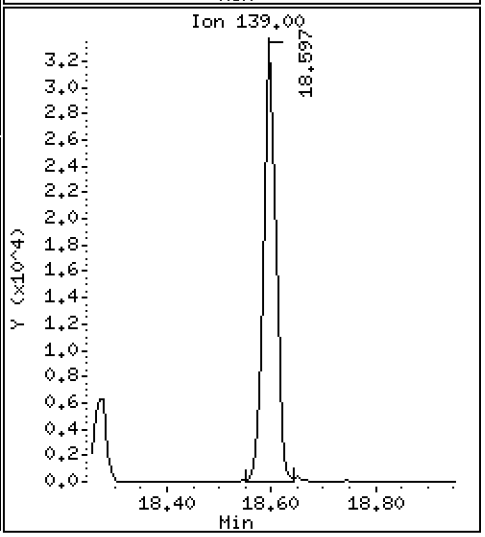


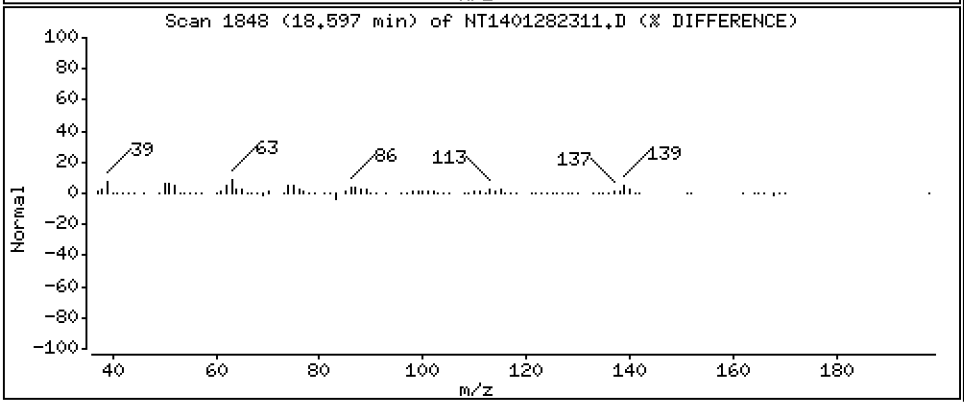












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

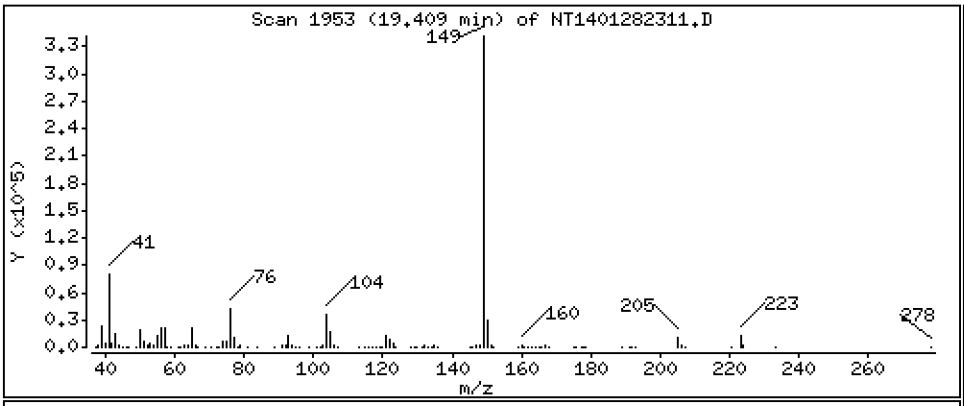
Operator: JGR

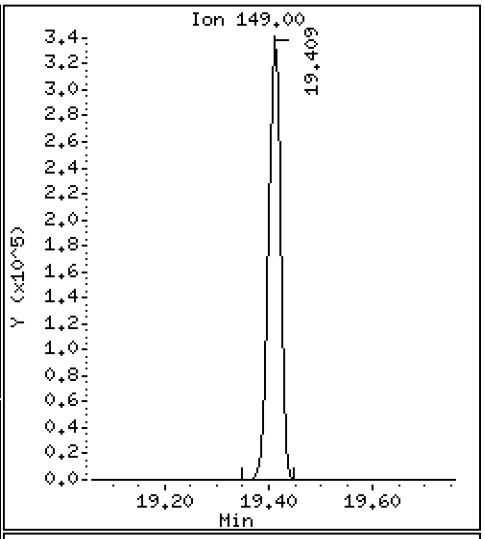
Column phase: ZB-5msi

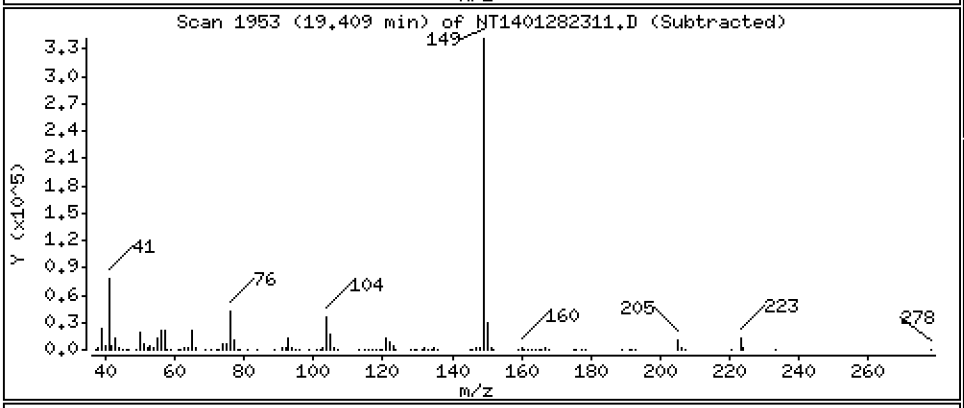
Column diameter: 0.25

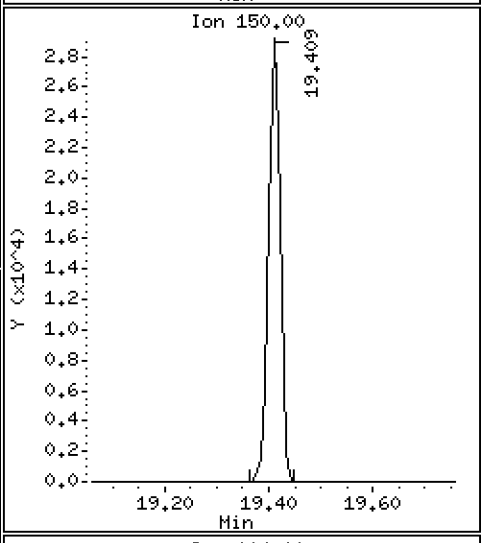
63 Di-n-butylphthalate

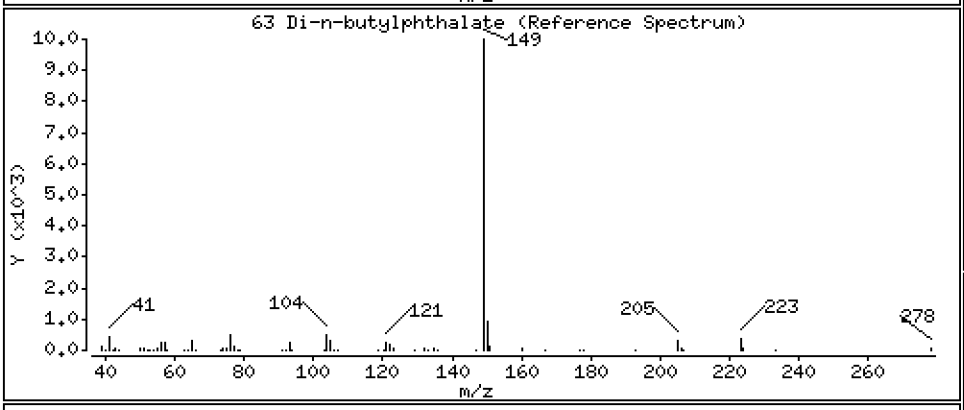
Concentration: 4.948 ug/mL

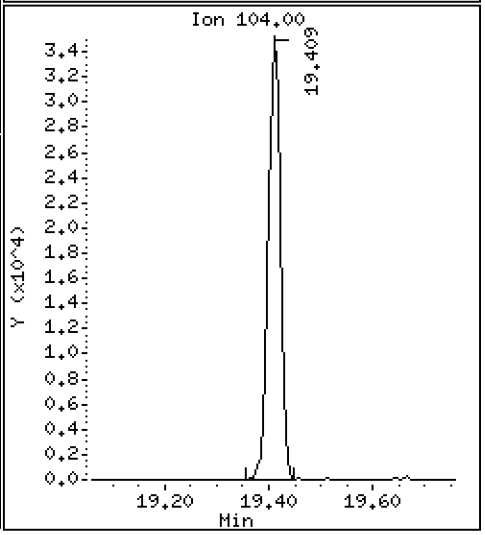


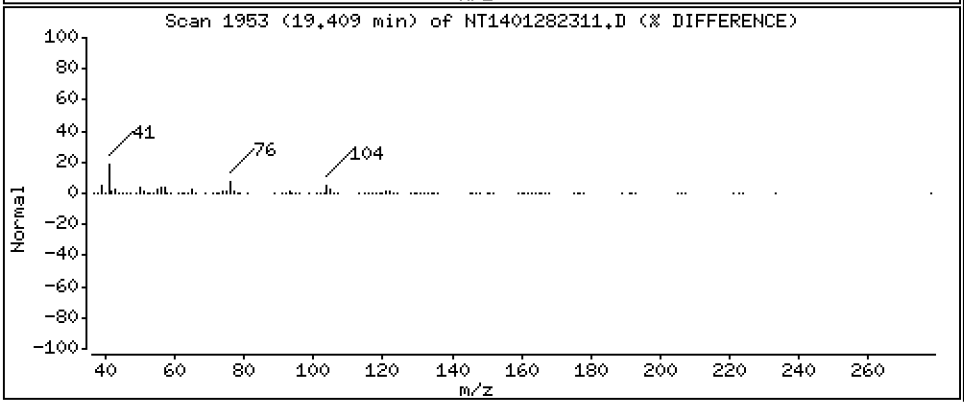












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

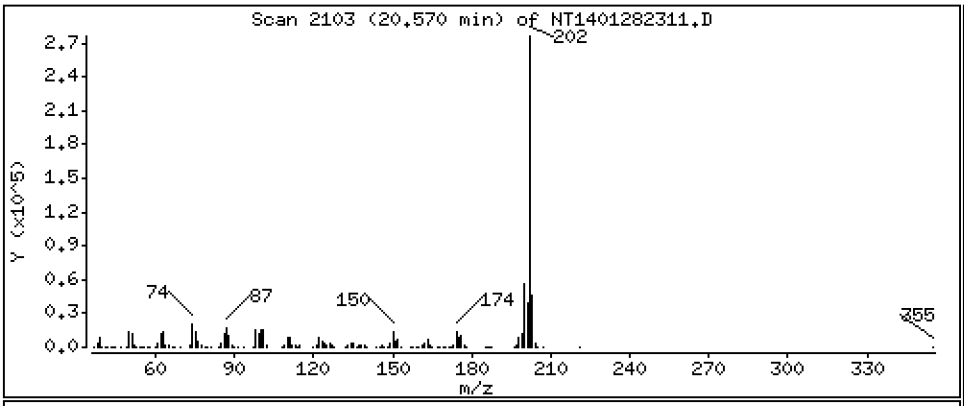
Operator: JGR

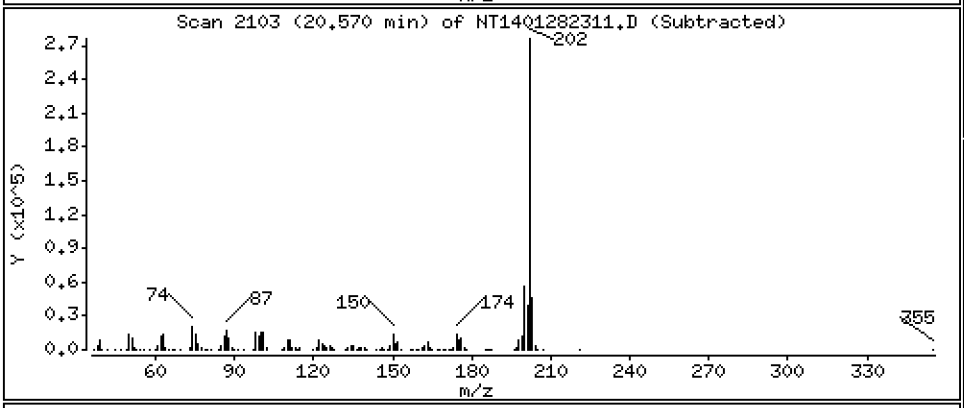
Column phase: ZB-5msi

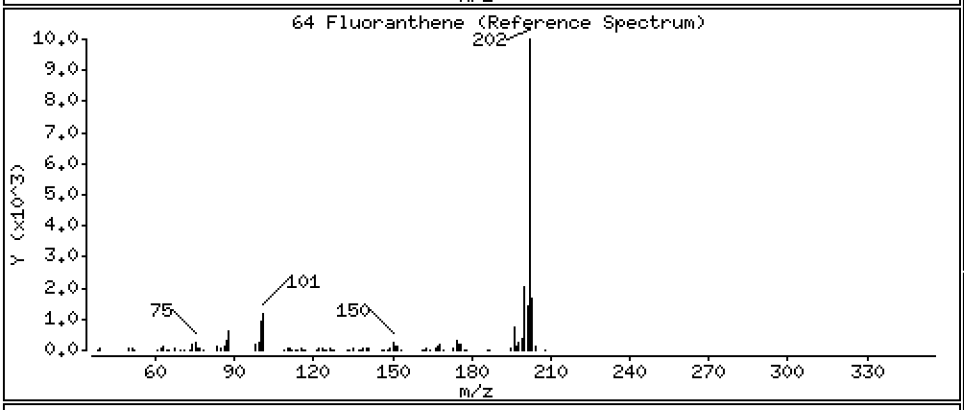
Column diameter: 0.25

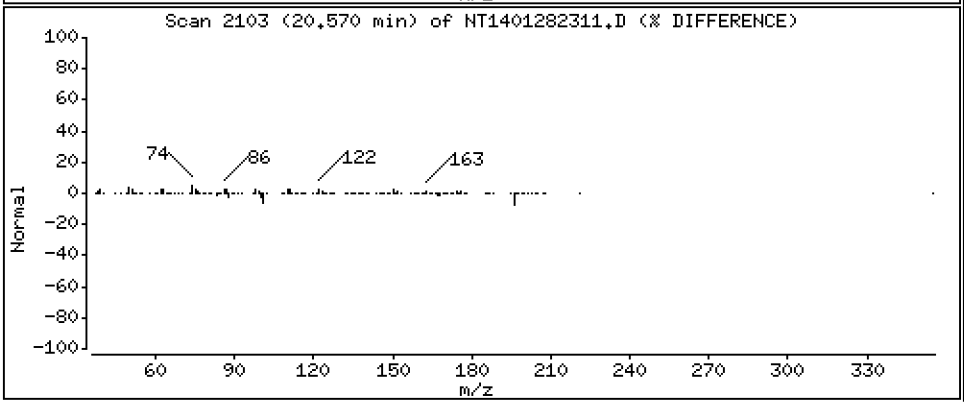
64 Fluoranthene

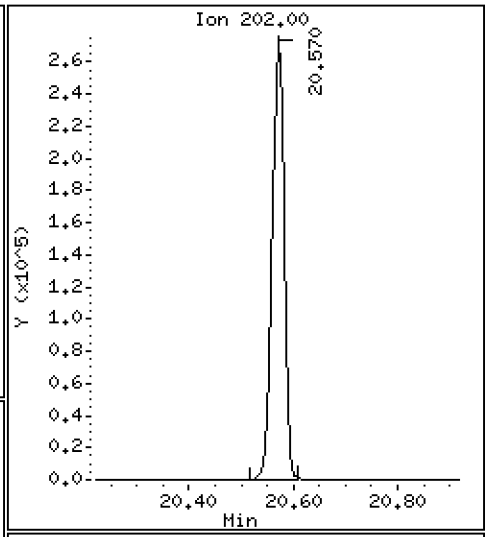
Concentration: 4.755 ug/mL

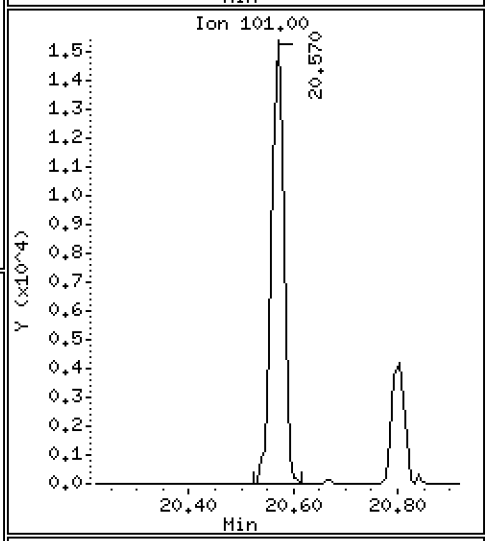


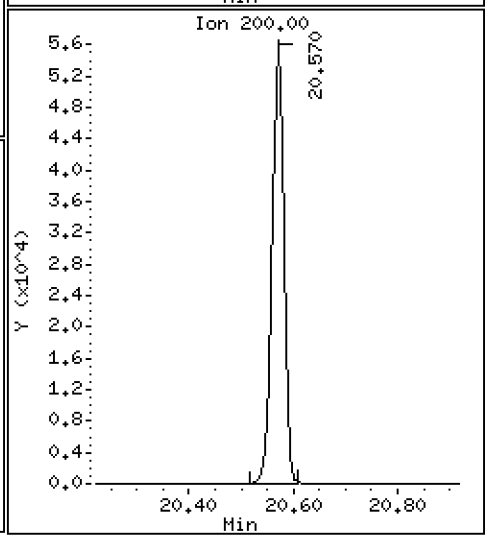












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

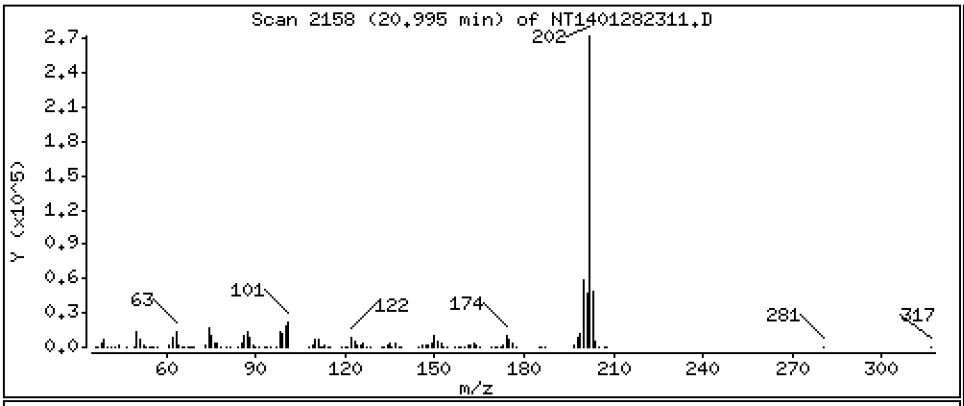
Operator: JGR

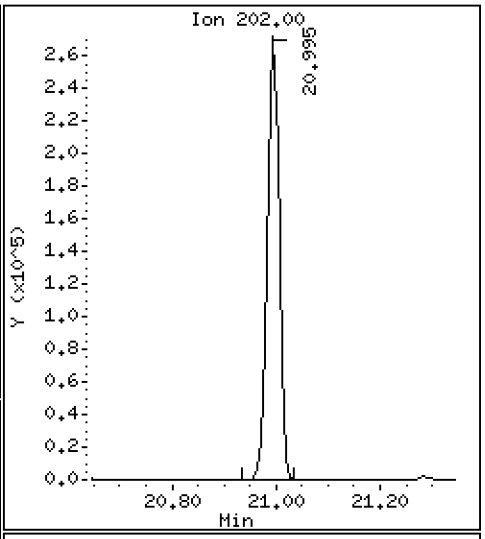
Column phase: ZB-5msi

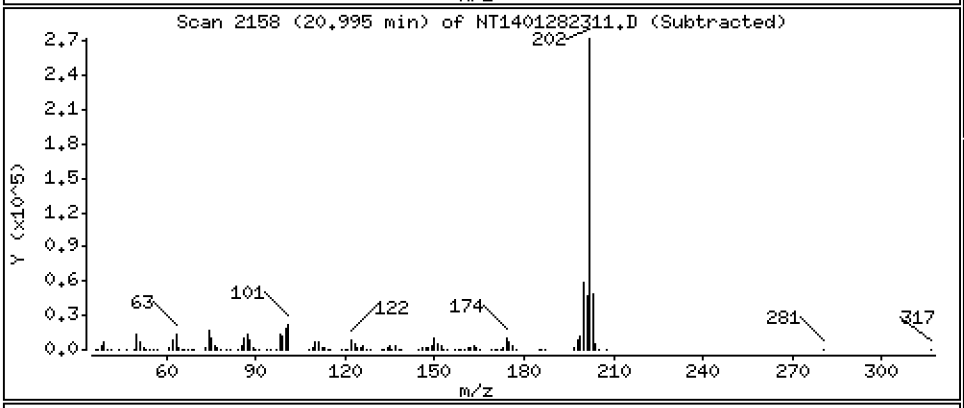
Column diameter: 0.25

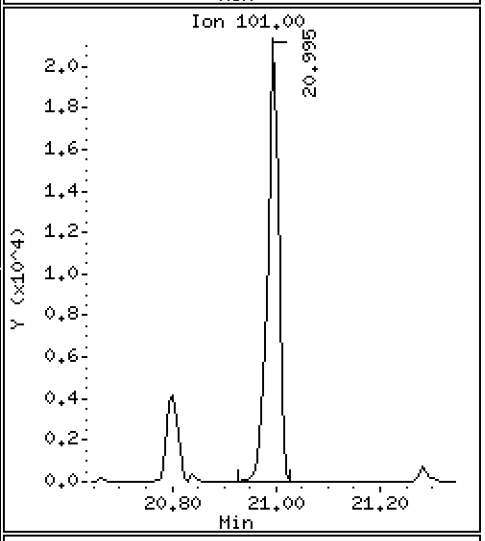
65 Pyrene

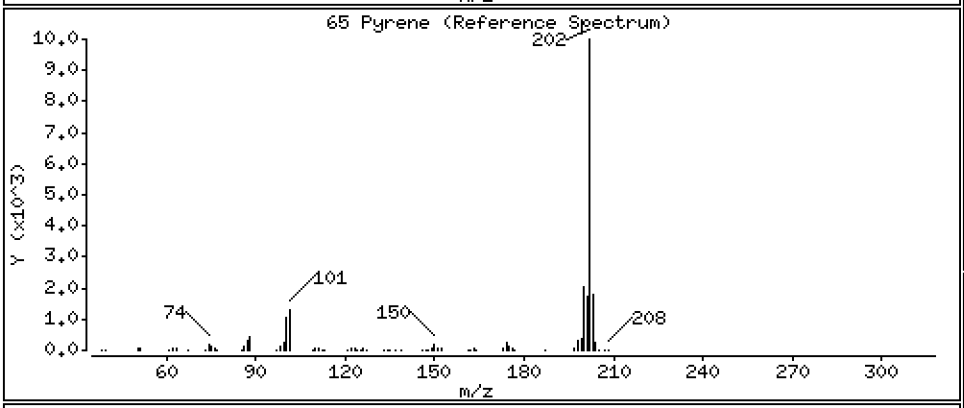
Concentration: 4.702 ug/mL

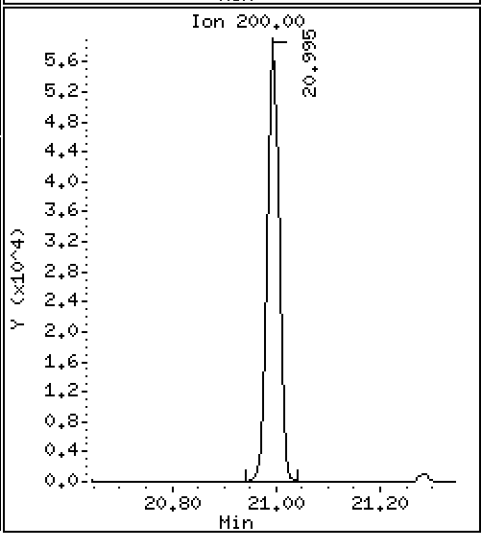


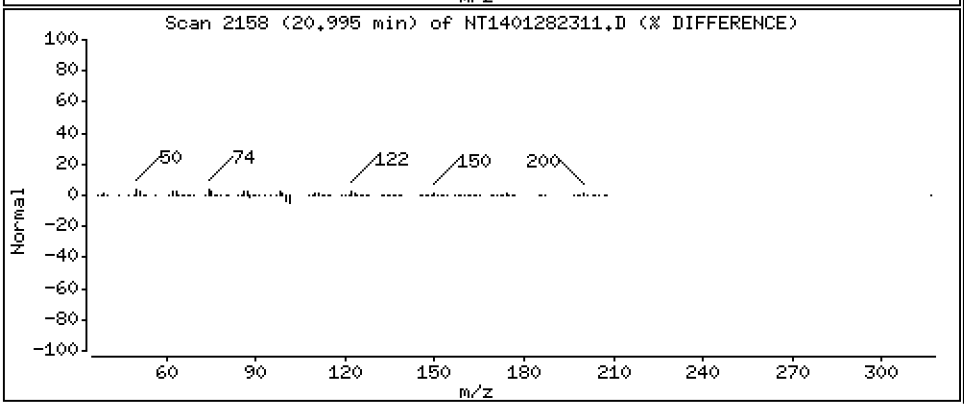












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

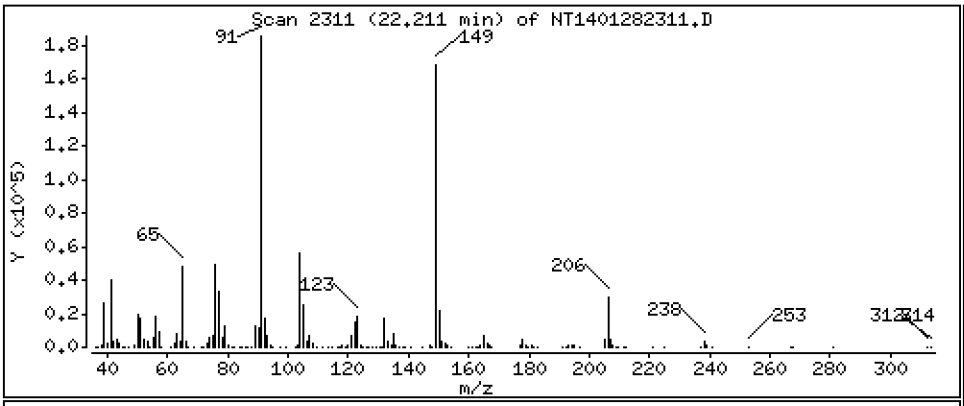
Operator: JGR

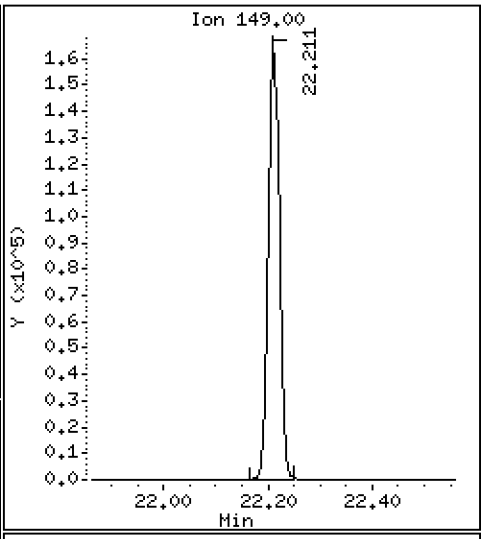
Column phase: ZB-5msi

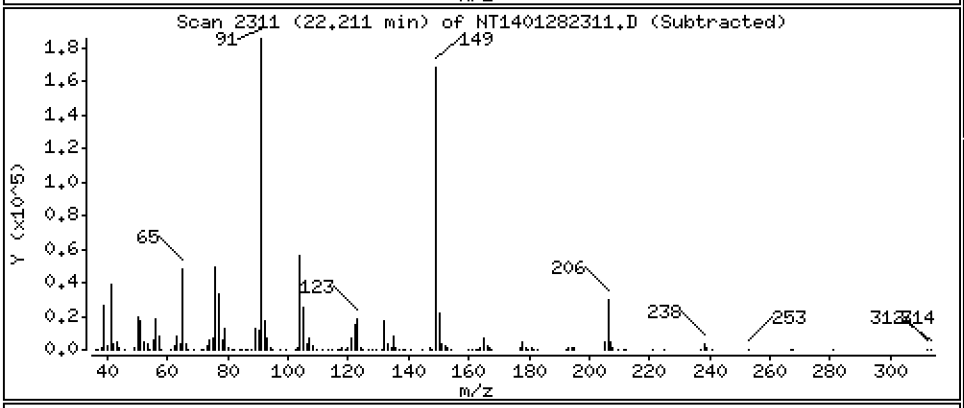
Column diameter: 0.25

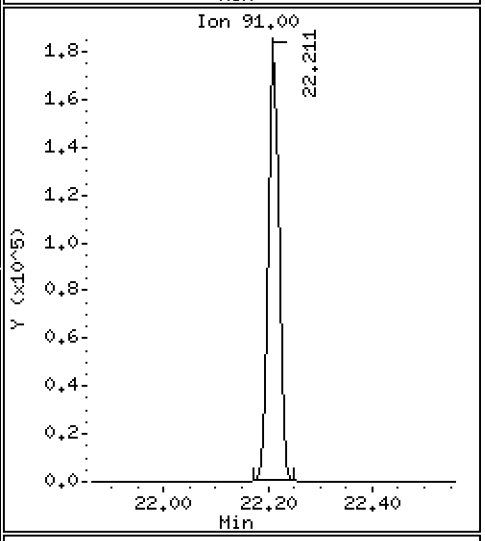
67 Butylbenzylphthalate

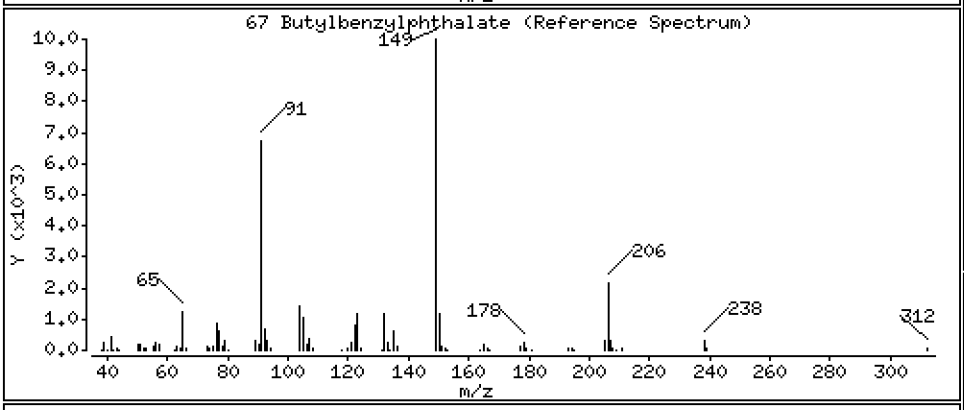
Concentration: 4.844 ug/mL

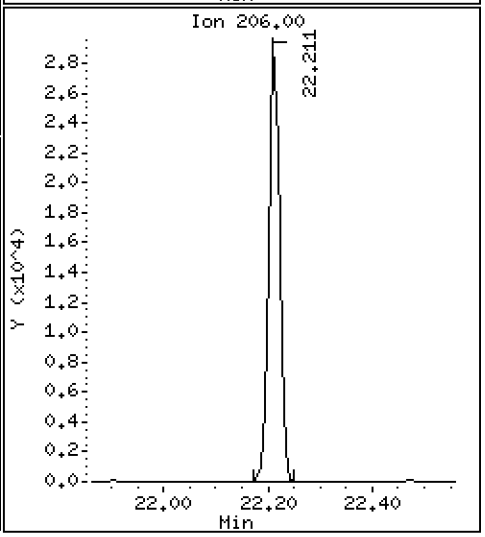


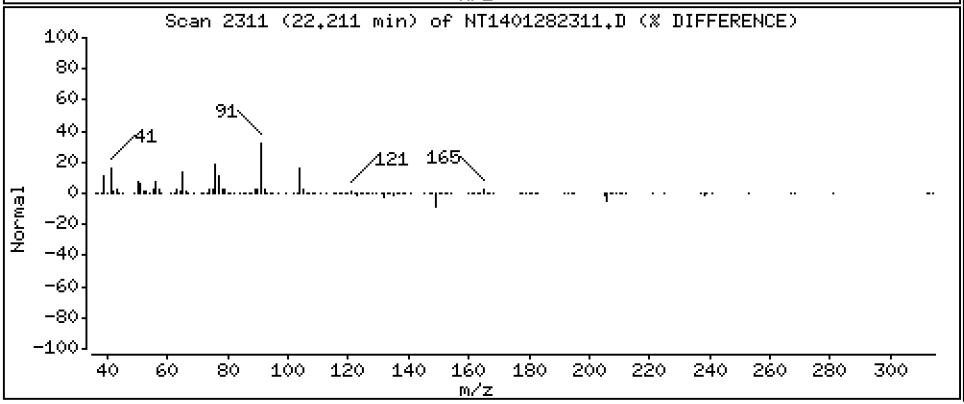












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

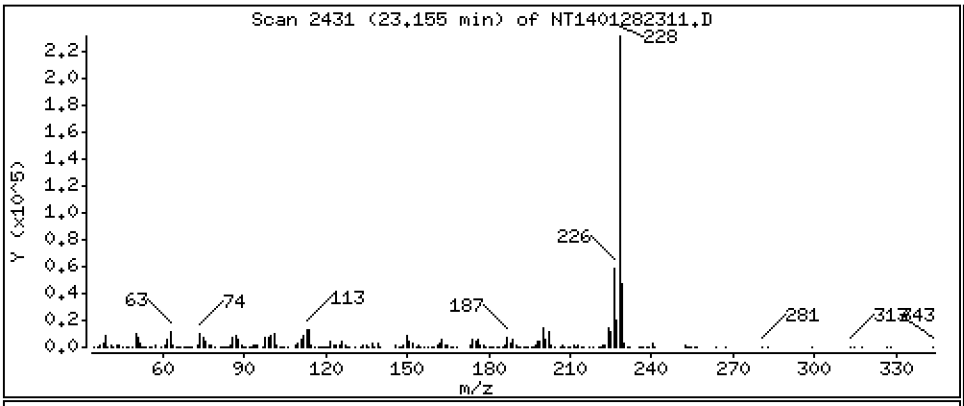
Operator: JGR

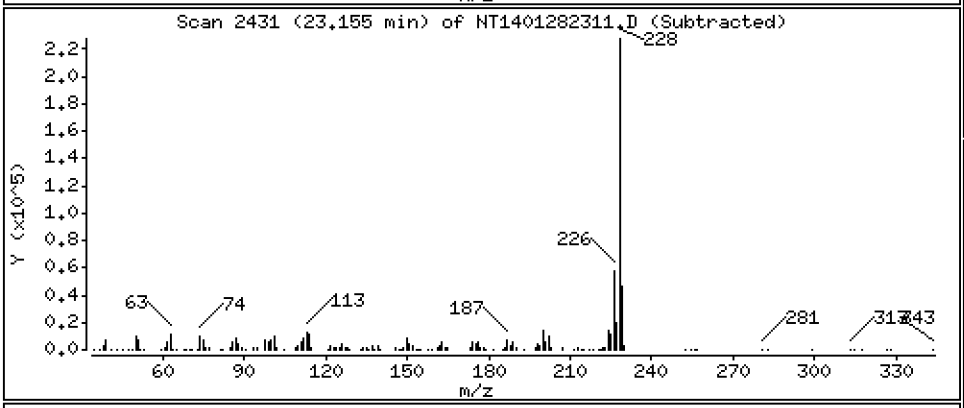
Column phase: ZB-5msi

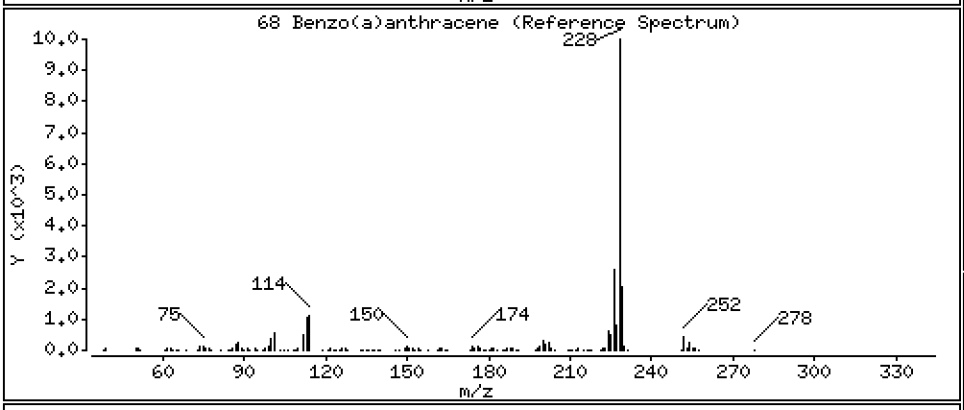
Column diameter: 0.25

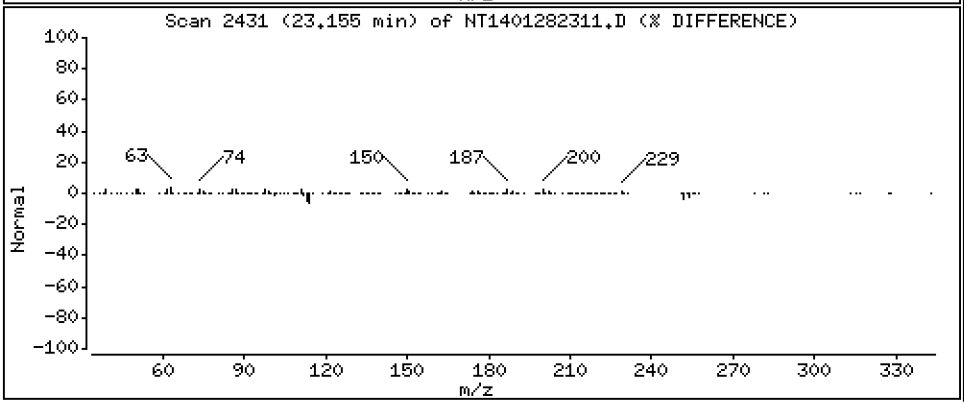
68 Benzo(a)anthracene

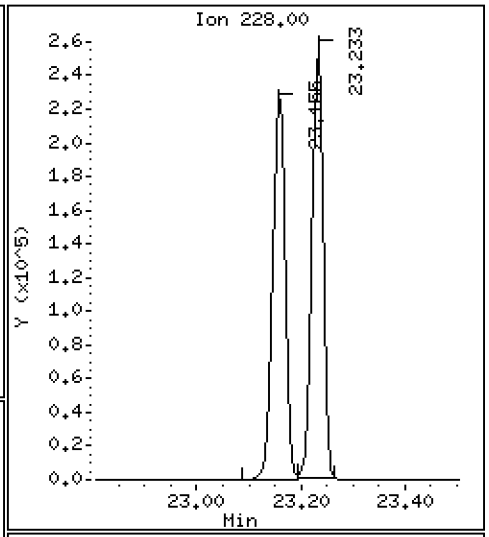
Concentration: 4.571 ug/mL

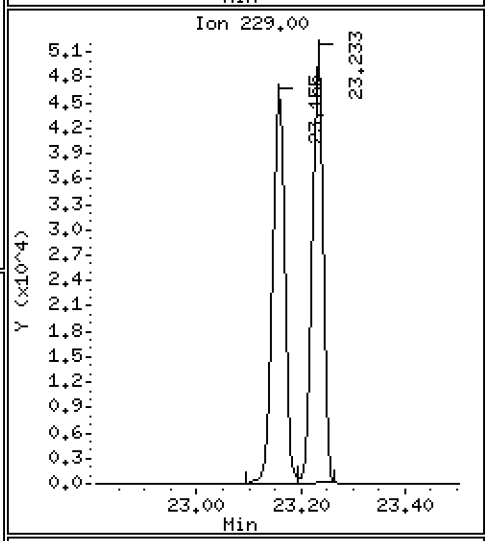


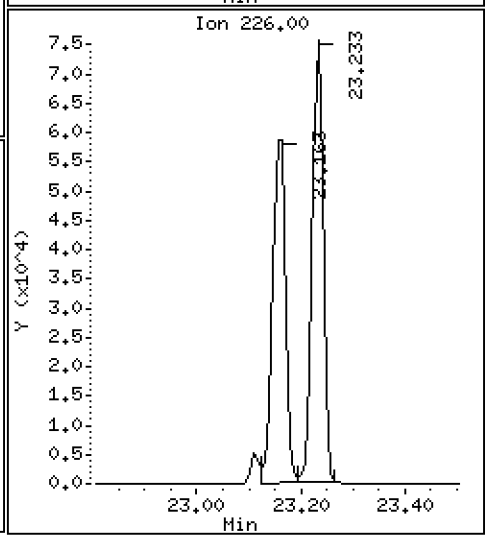












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

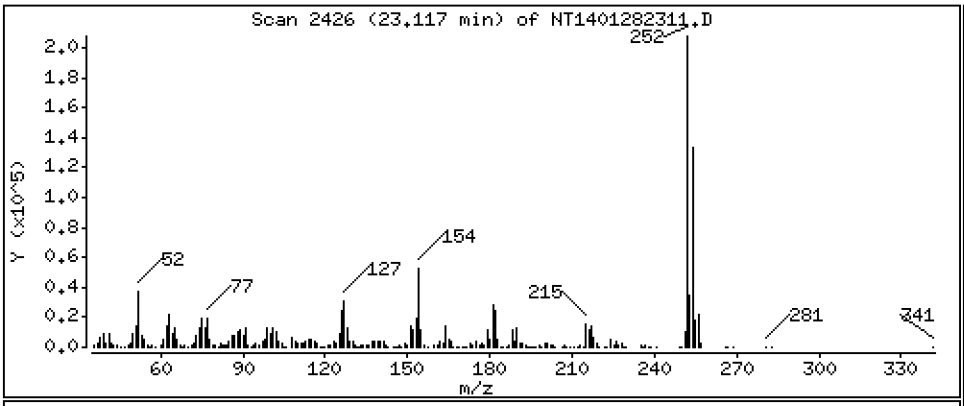
Operator: JGR

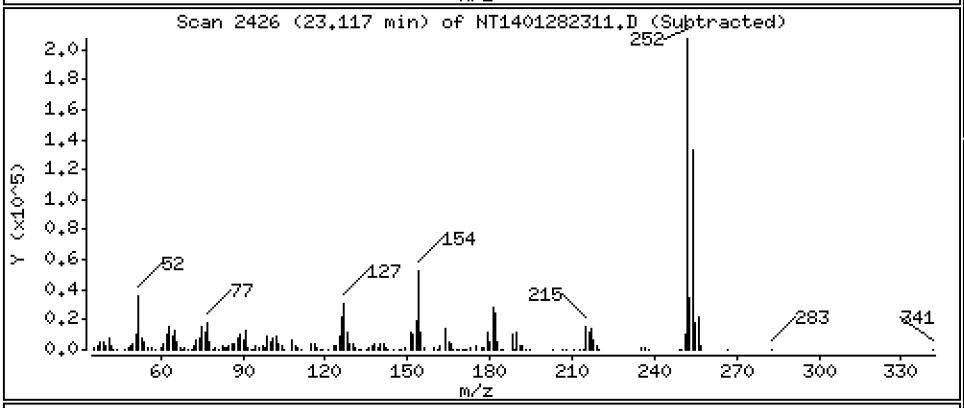
Column phase: ZB-5msi

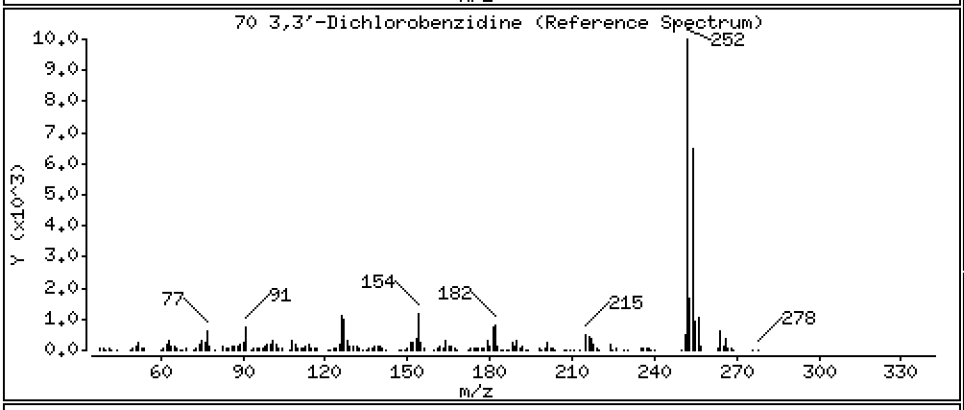
Column diameter: 0.25

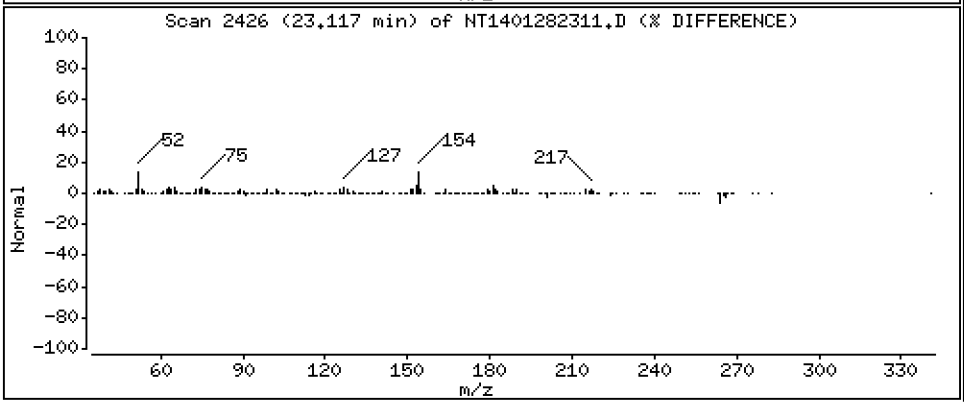
70 3,3'-Dichlorobenzidine

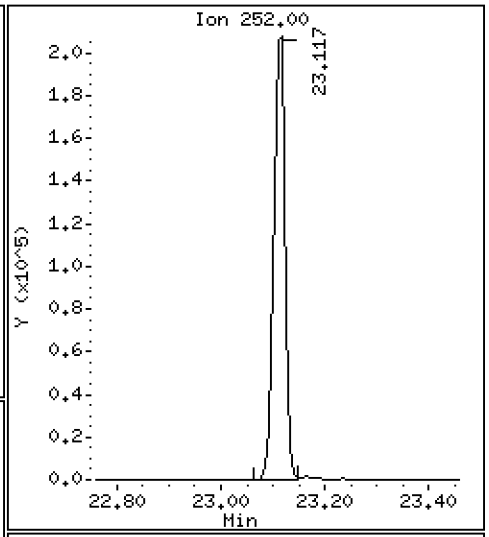
Concentration: 8.226 ug/mL

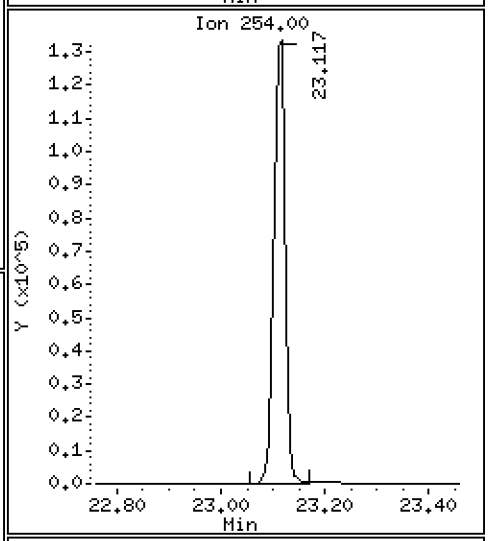


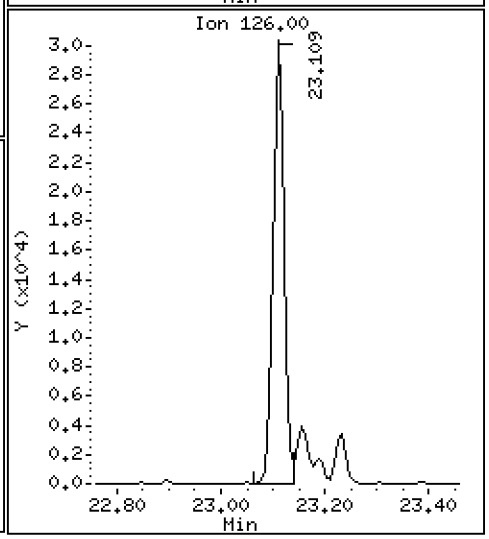












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

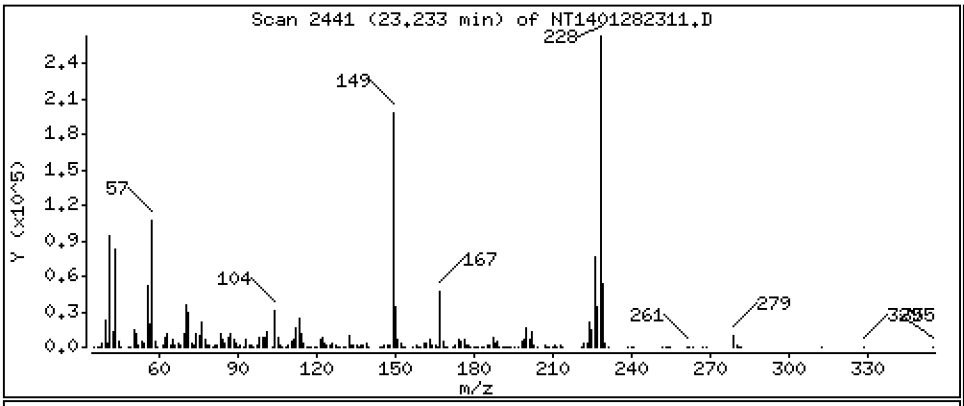
Operator: JGR

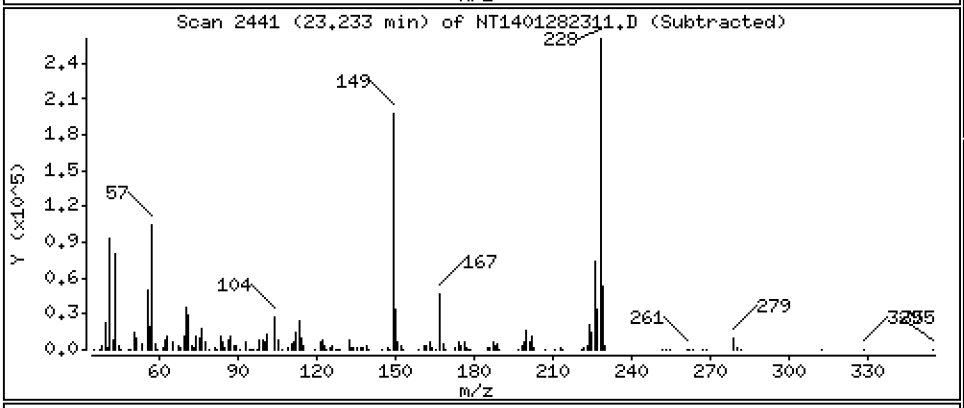
Column phase: ZB-5msi

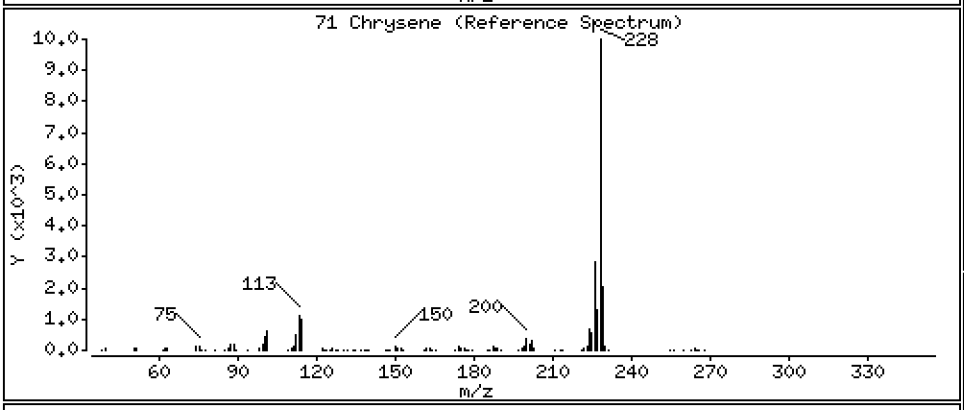
Column diameter: 0.25

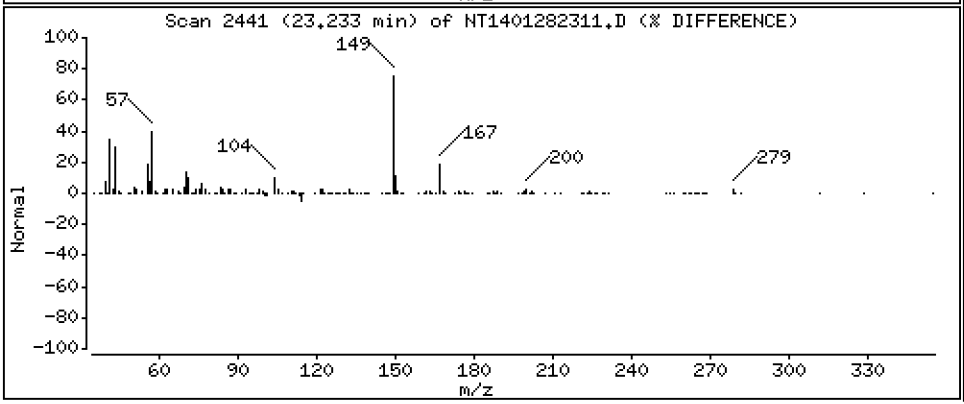
71 Chrysene

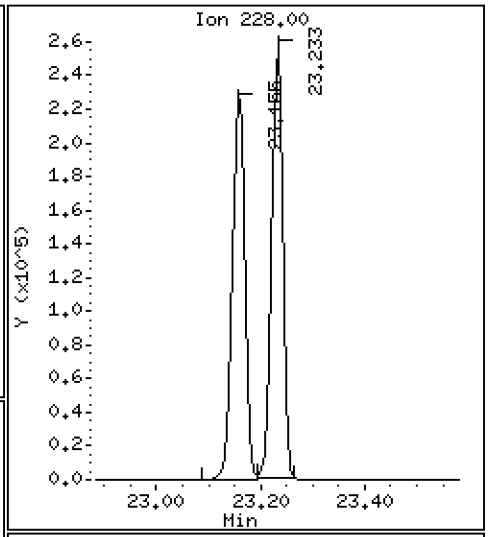
Concentration: 4.466 ug/mL

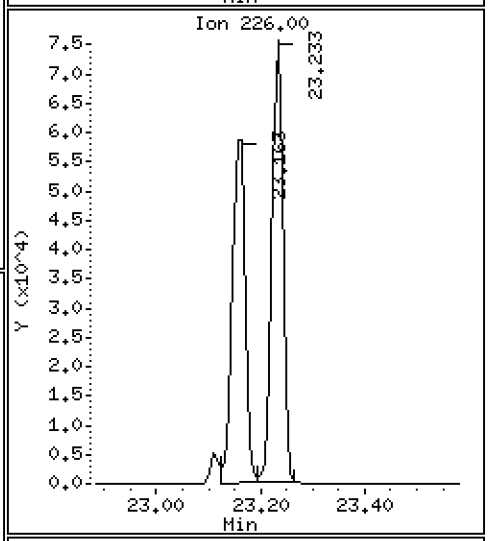


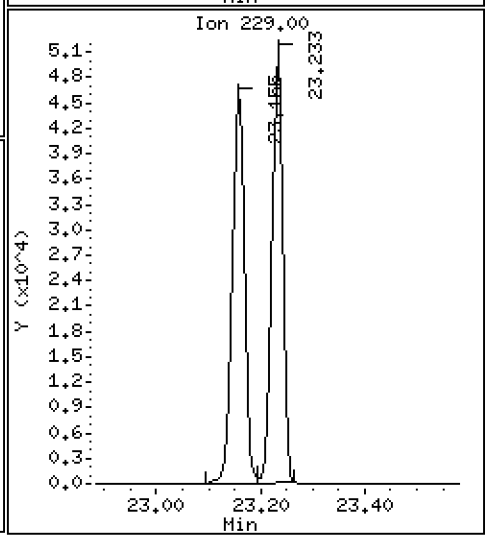












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

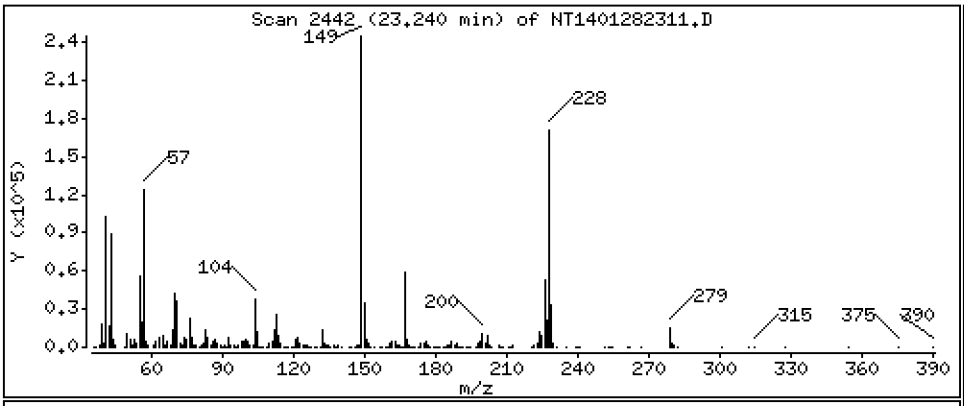
Operator: JGR

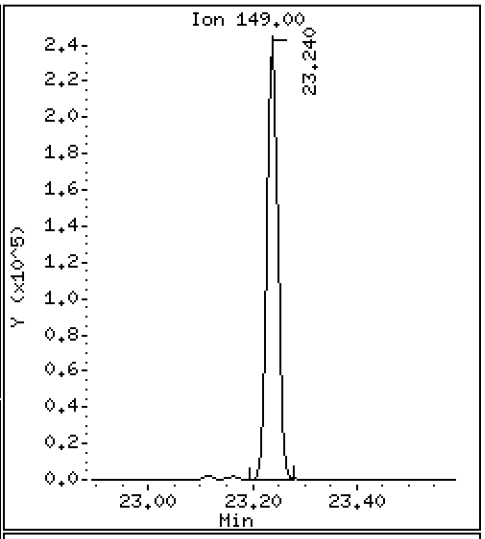
Column phase: ZB-5msi

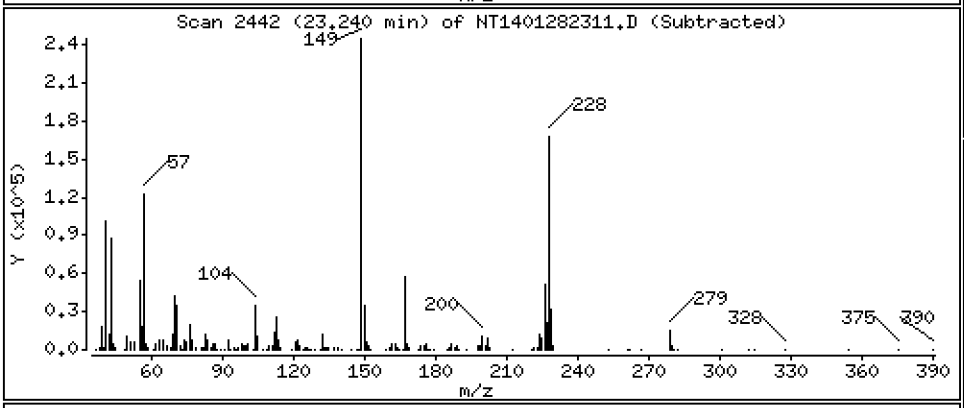
Column diameter: 0.25

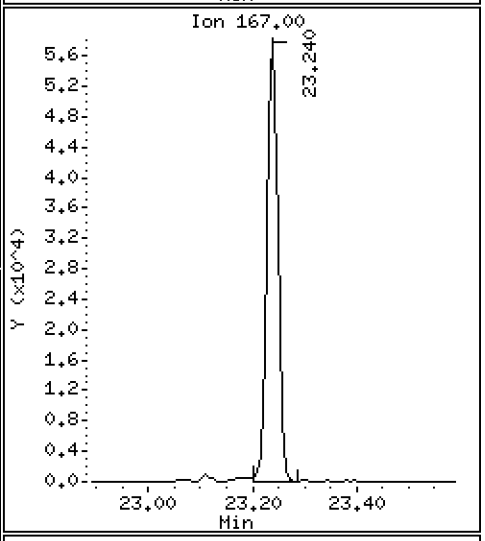
72 bis(2-Ethylhexyl)phthalate

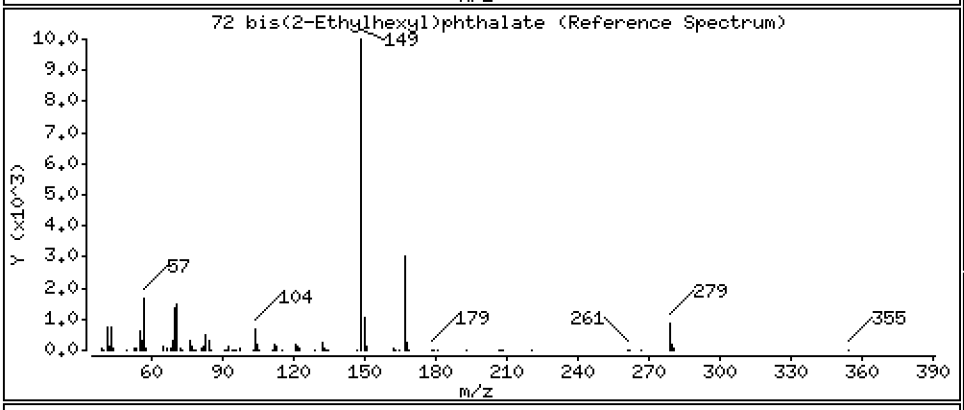
Concentration: 4.823 ug/mL

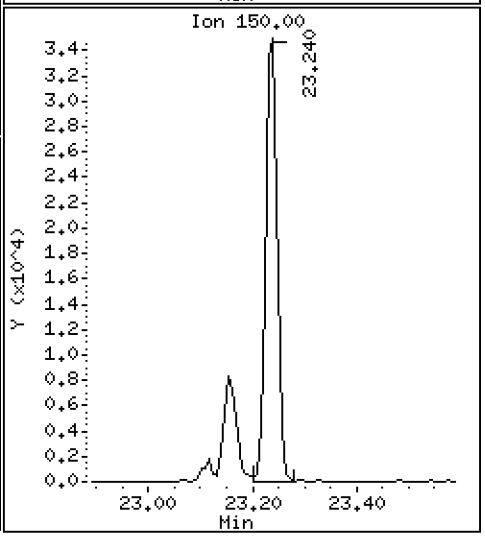


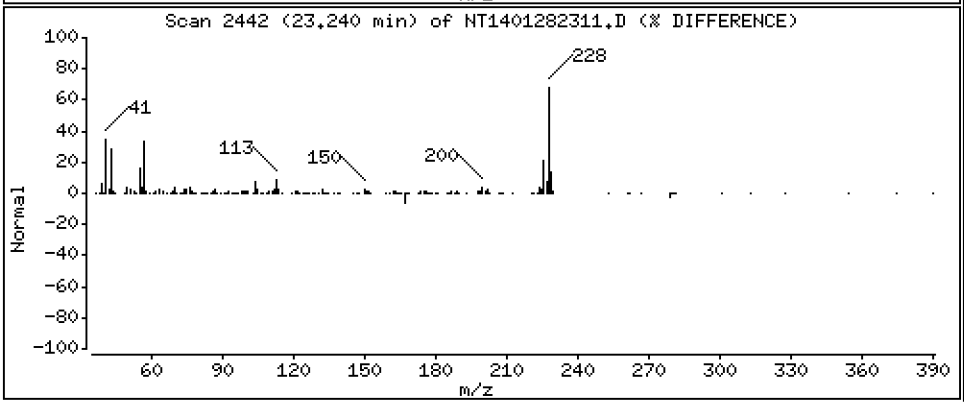












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

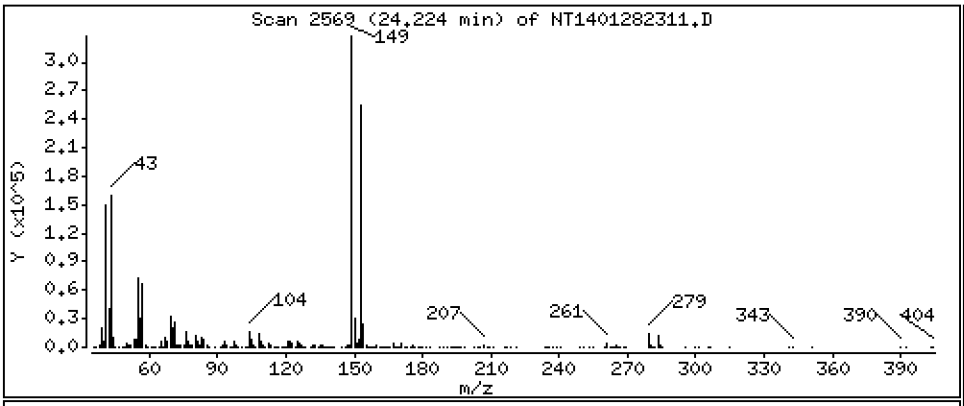
Operator: JGR

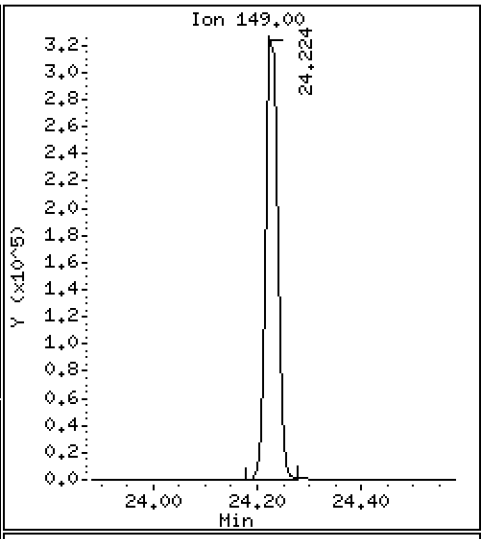
Column phase: ZB-5msi

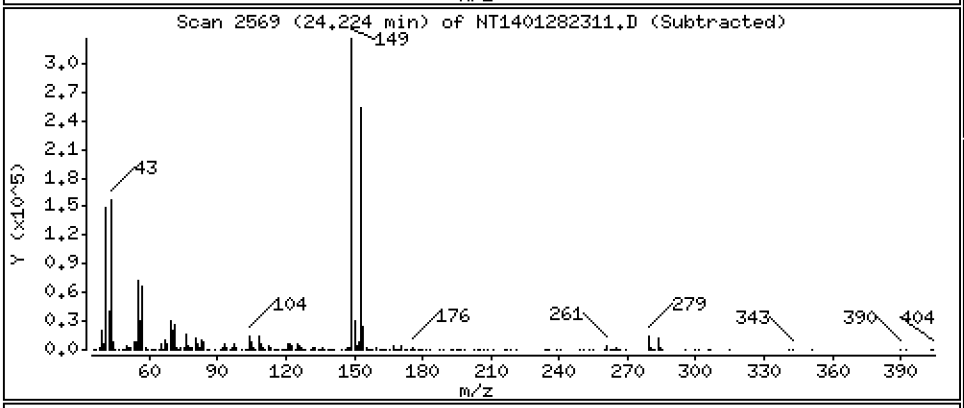
Column diameter: 0.25

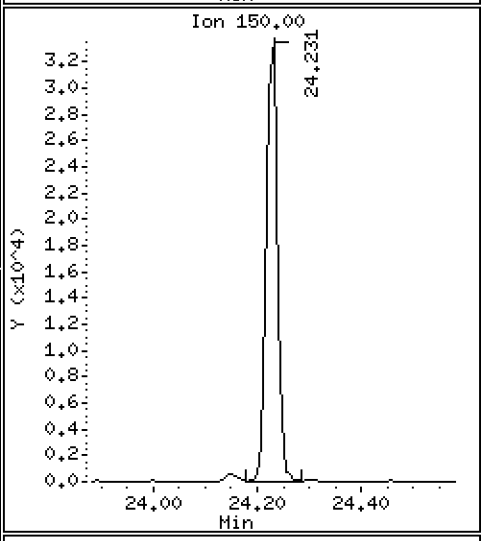
73 Di-n-octylphthalate

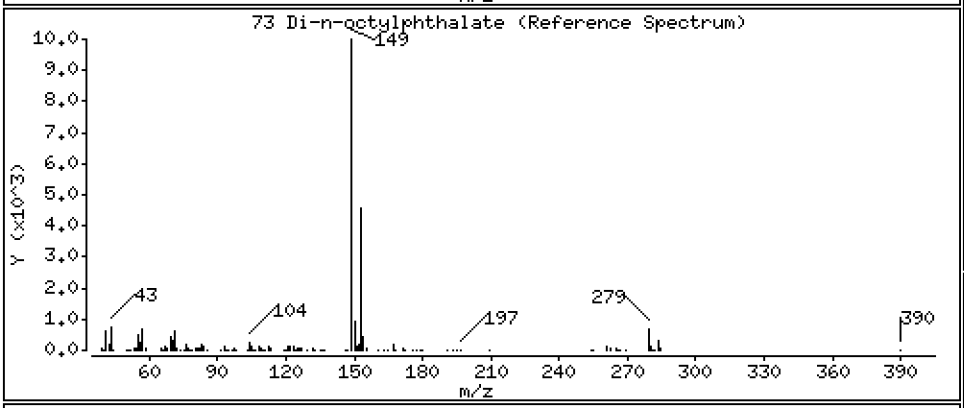
Concentration: 4.835 ug/mL

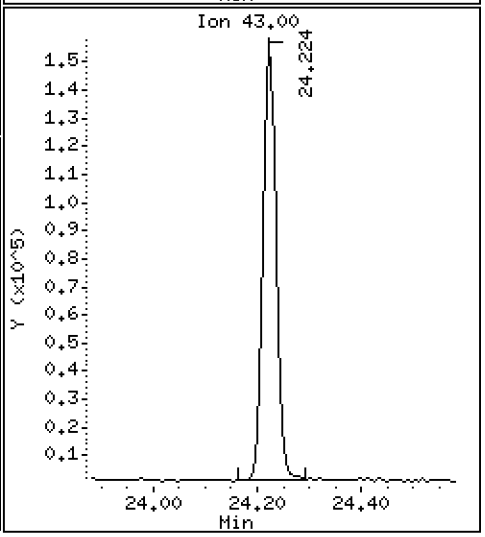


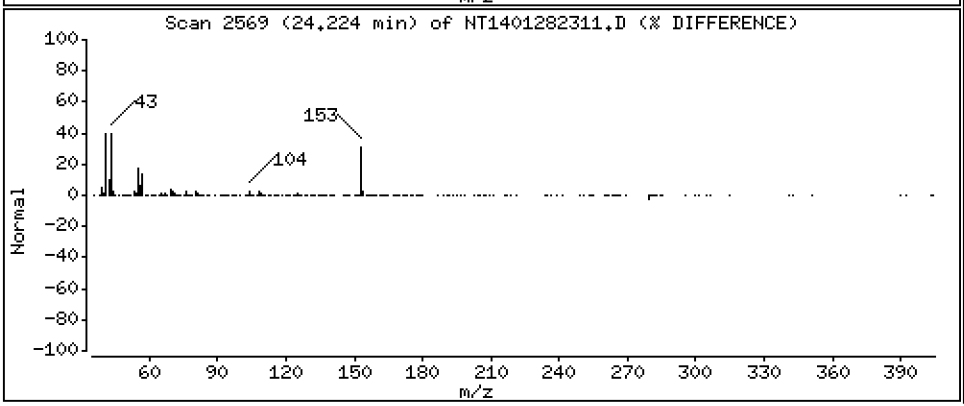












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

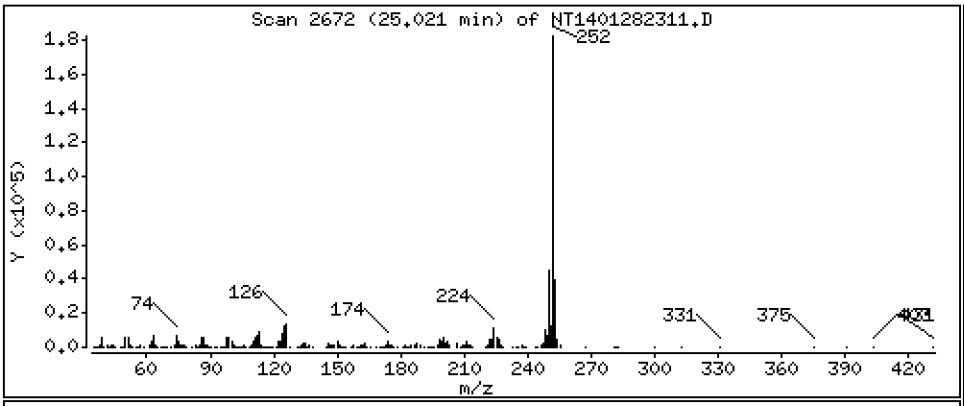
Operator: JGR

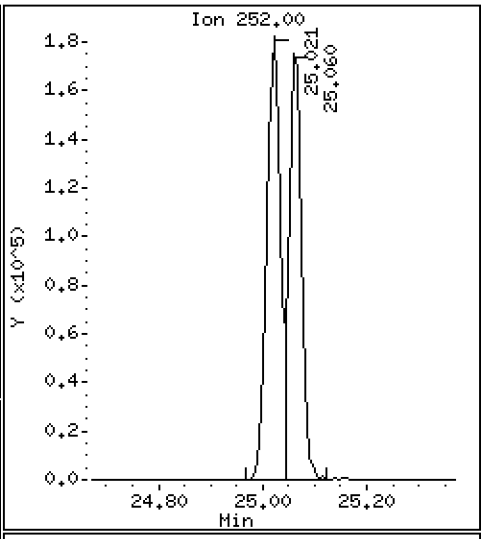
Column phase: ZB-5msi

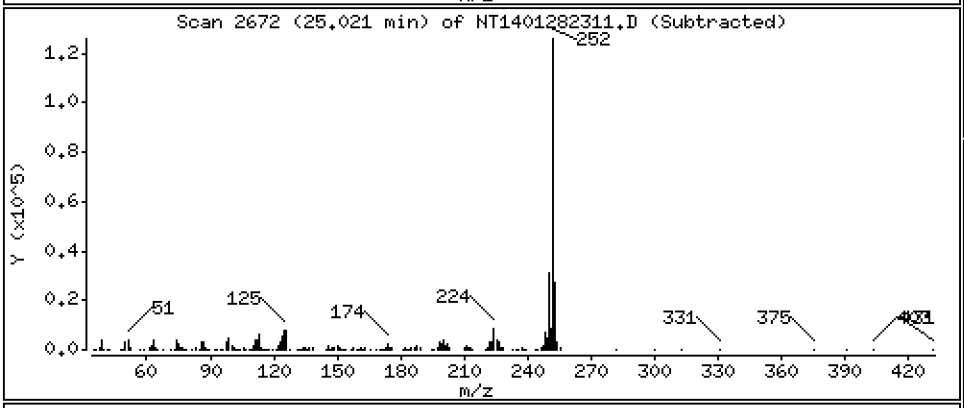
Column diameter: 0.25

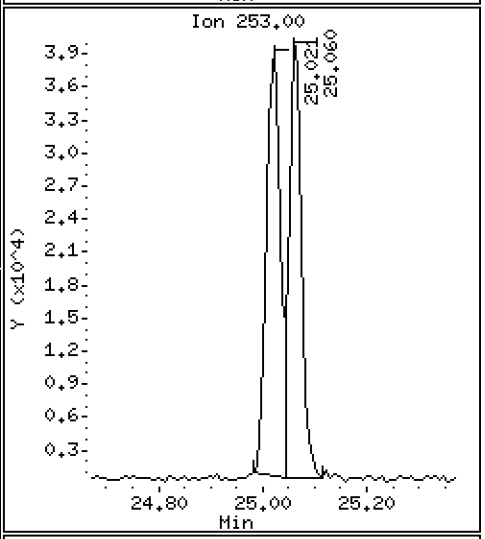
74 Benzo(b)fluoranthene

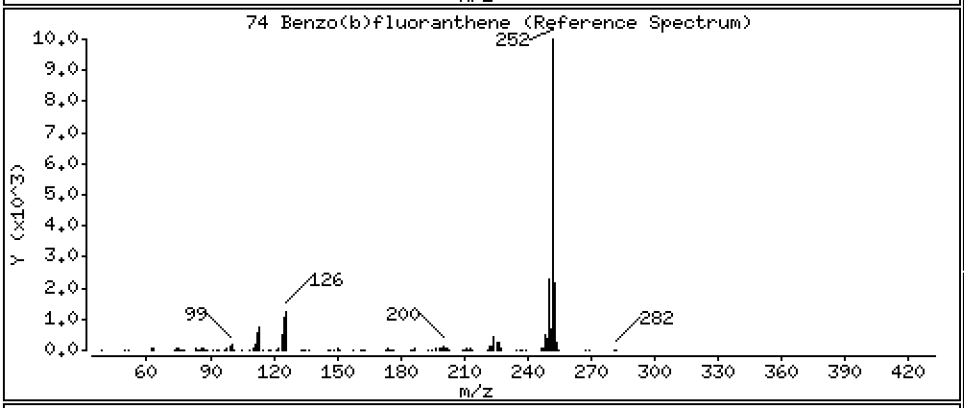
Concentration: 4.734 ug/mL

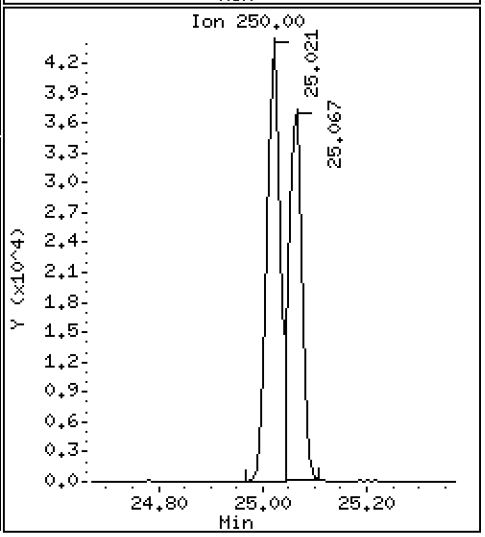


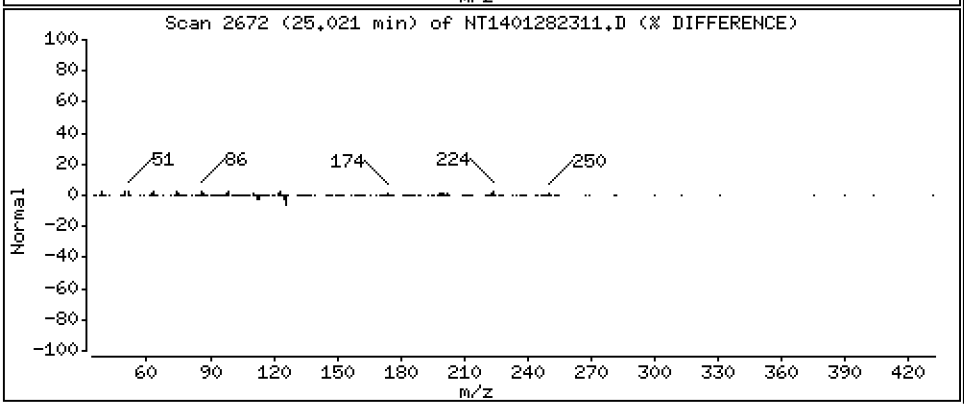












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

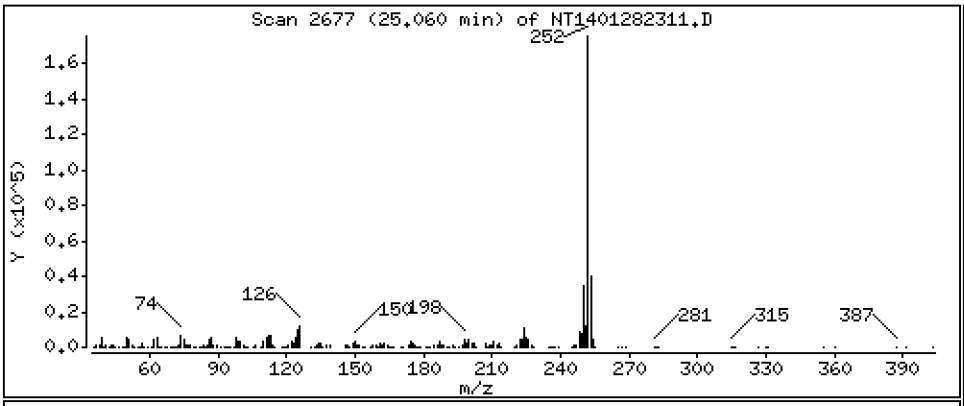
Operator: JGR

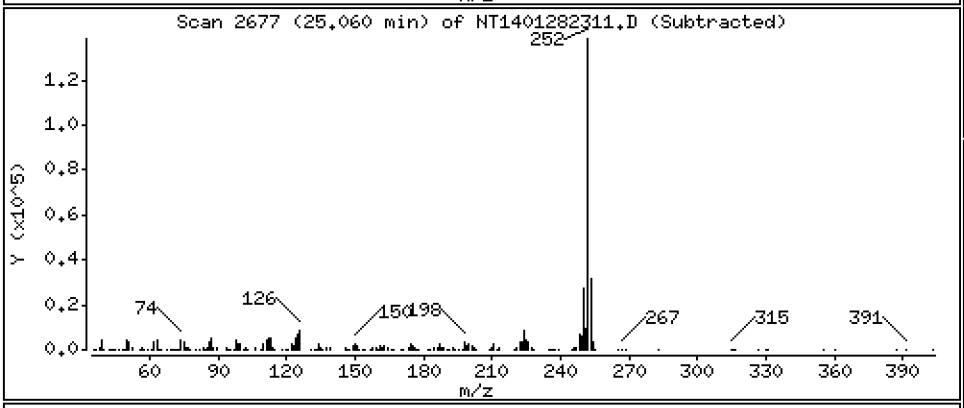
Column phase: ZB-5msi

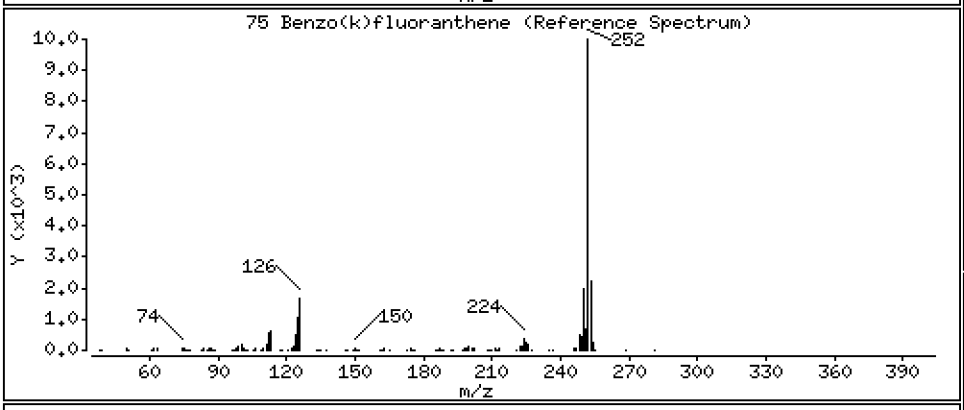
Column diameter: 0.25

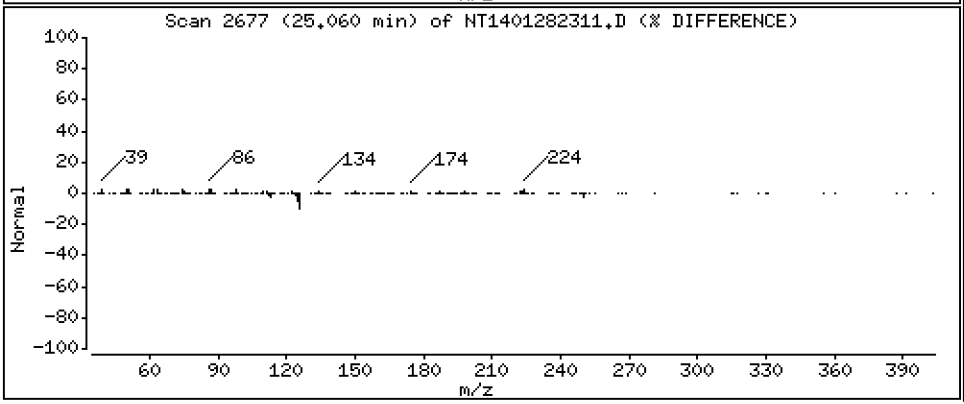
75 Benzo(k)fluoranthene

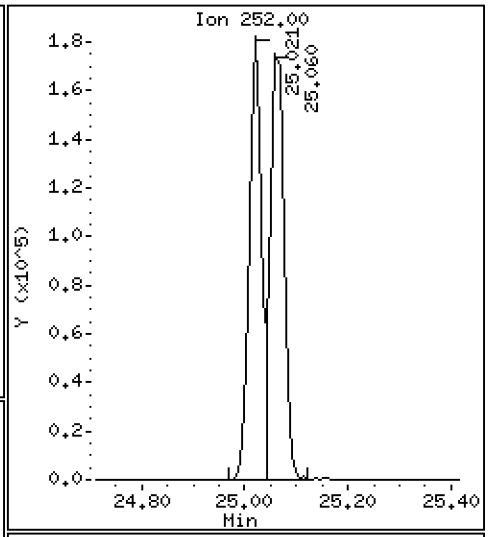
Concentration: 4.387 ug/mL

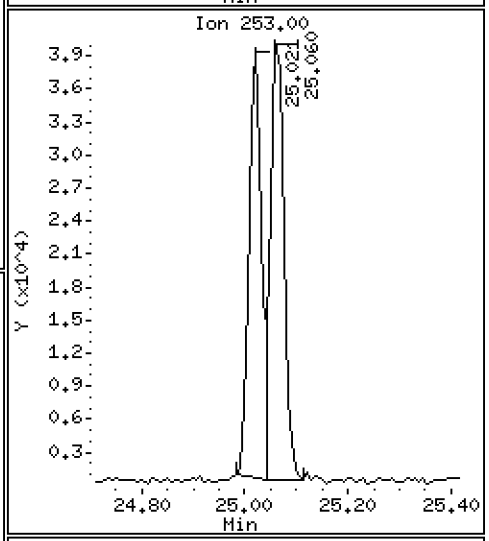


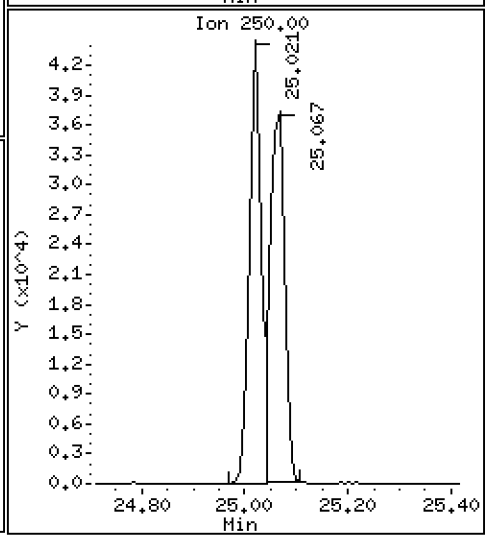












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

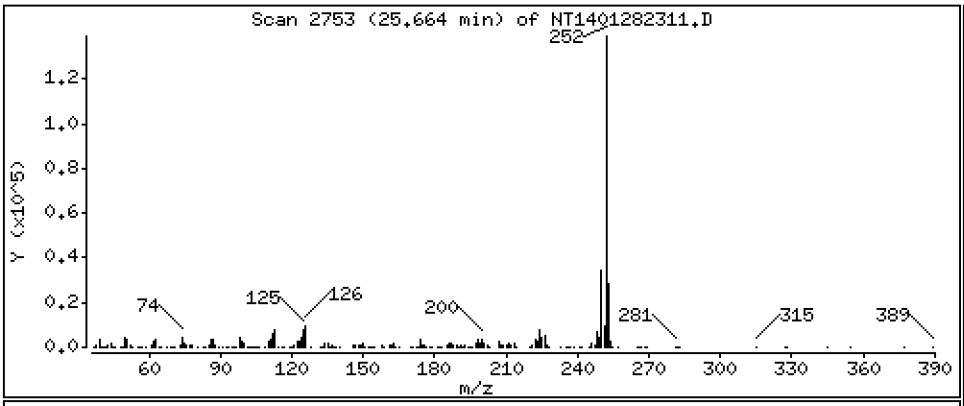
Operator: JGR

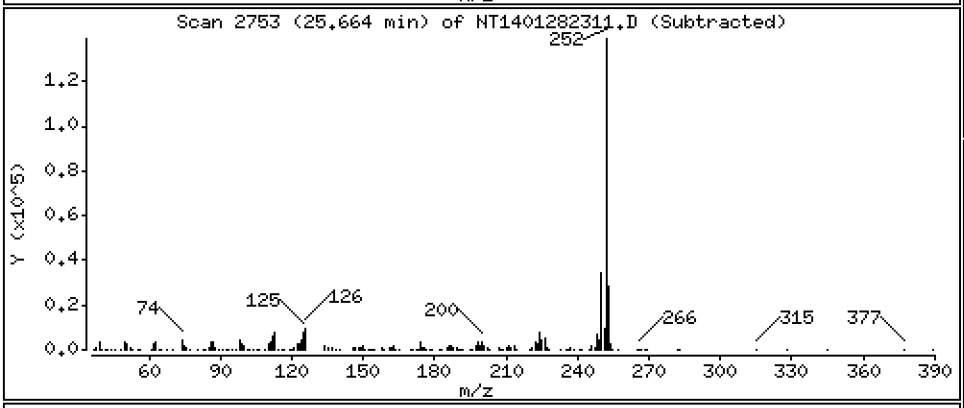
Column phase: ZB-5msi

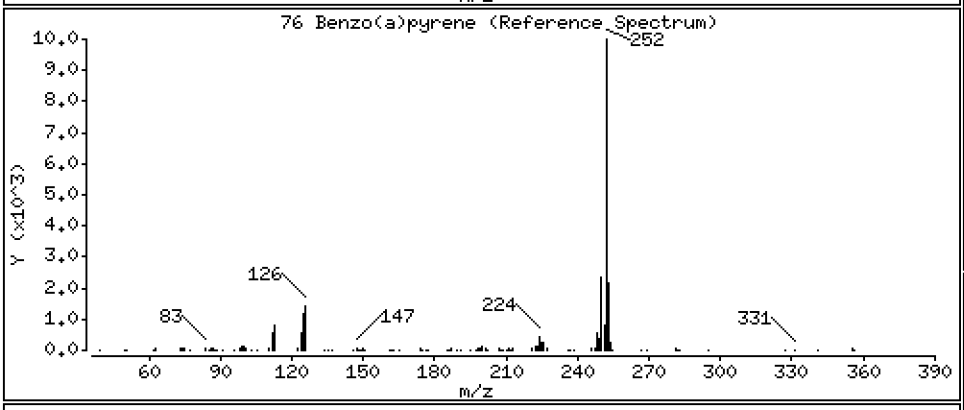
Column diameter: 0.25

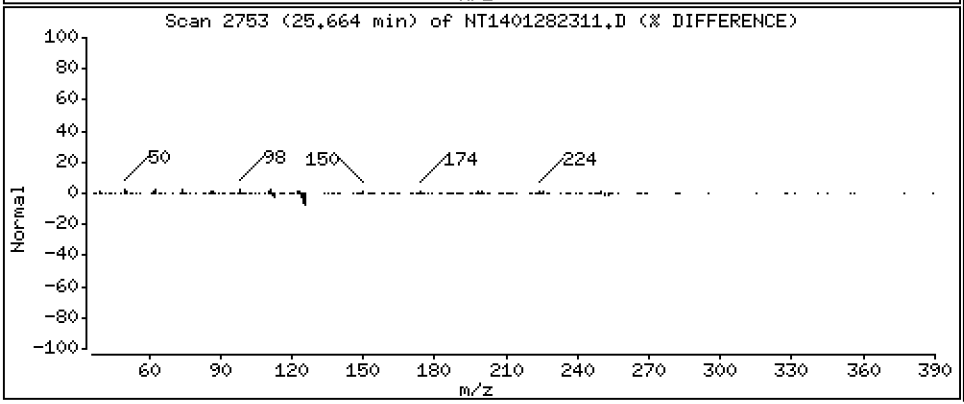
76 Benzo(a)pyrene

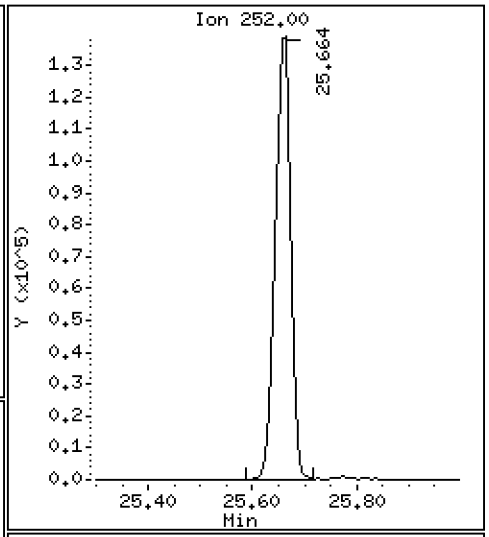
Concentration: 4.660 ug/mL

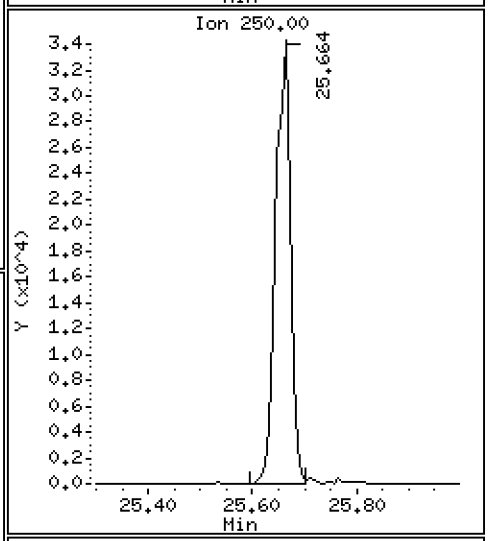


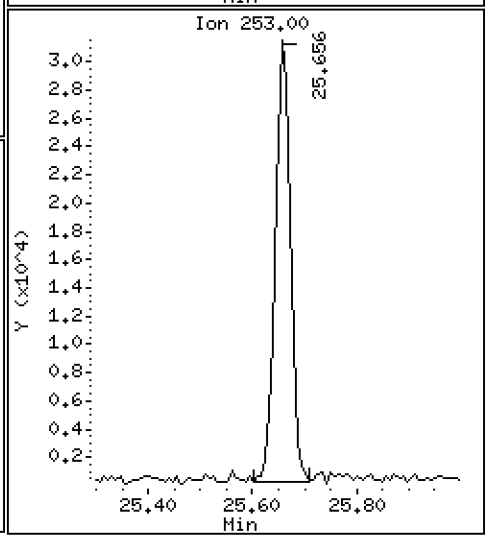












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

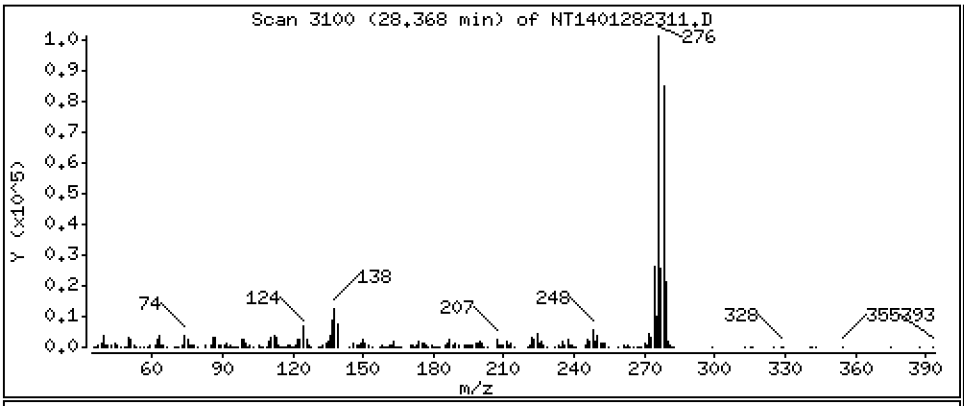
Operator: JGR

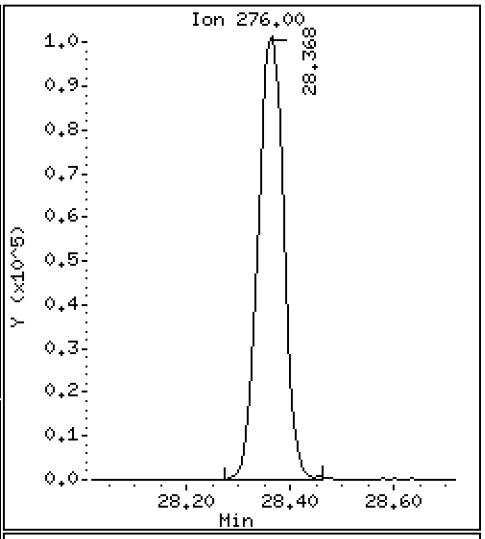
Column phase: ZB-5msi

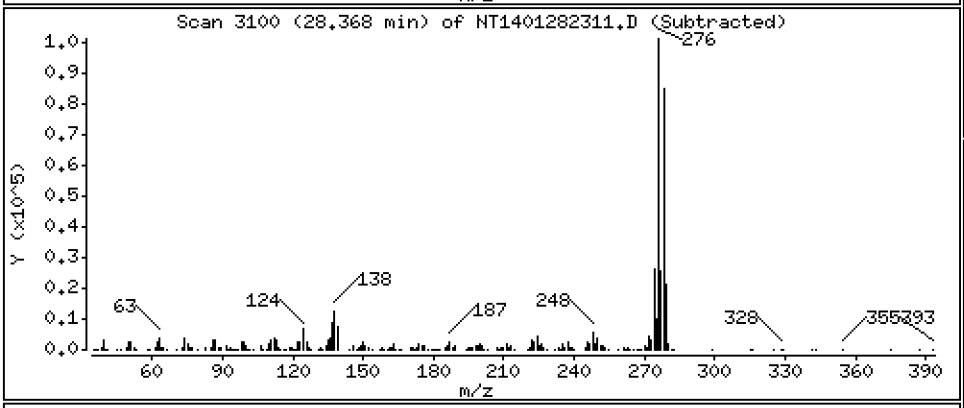
Column diameter: 0.25

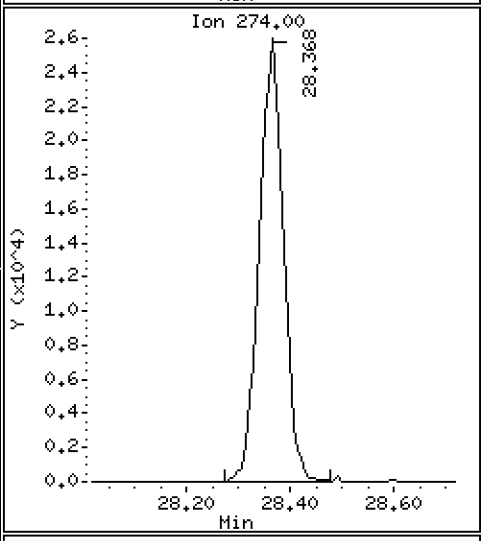
78 Indeno(1,2,3-cd)pyrene

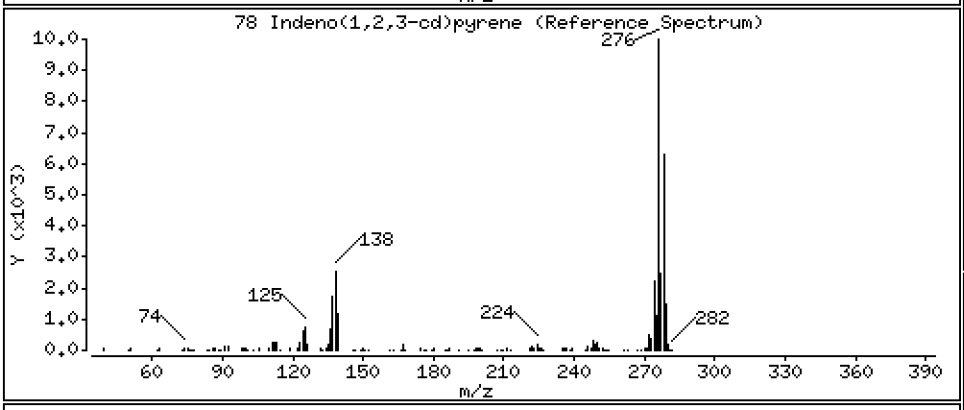
Concentration: 4.636 ug/mL

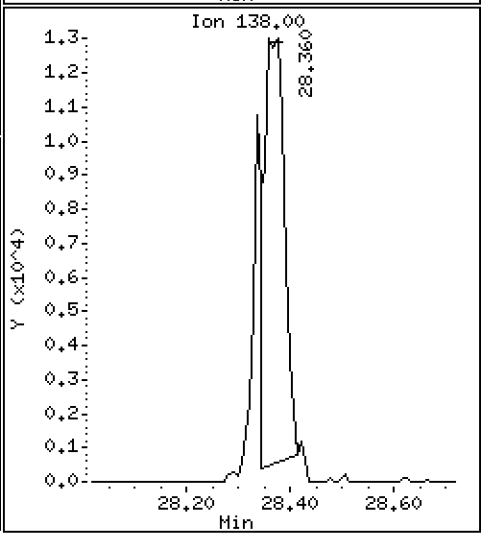


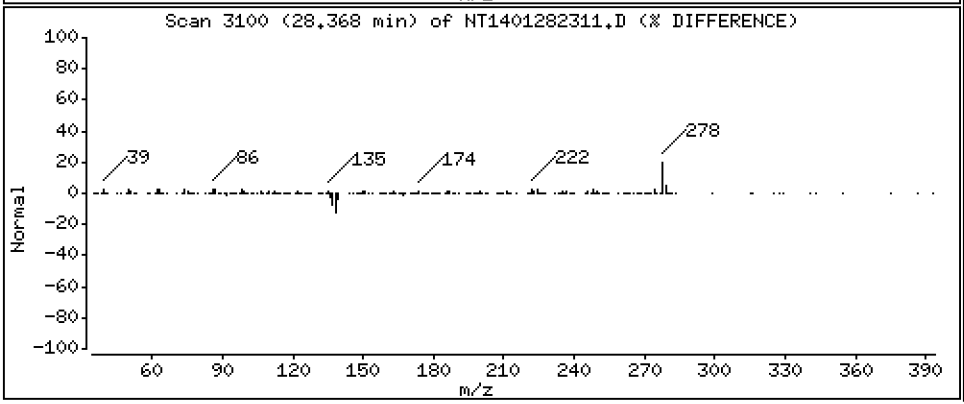












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

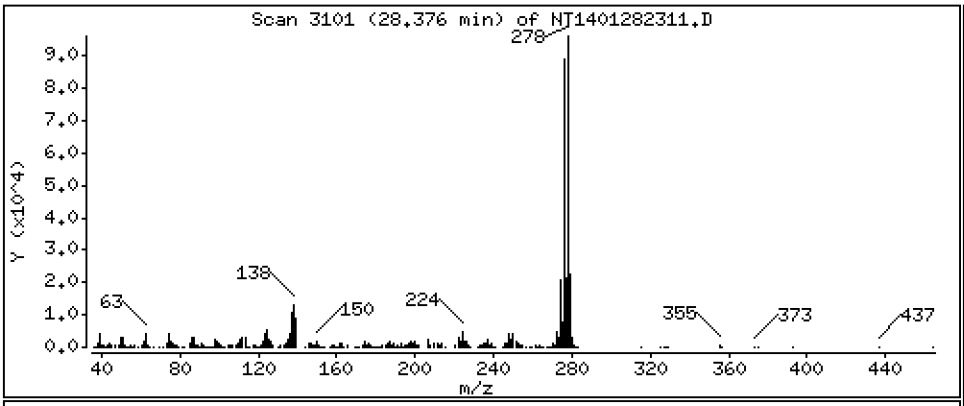
Operator: JGR

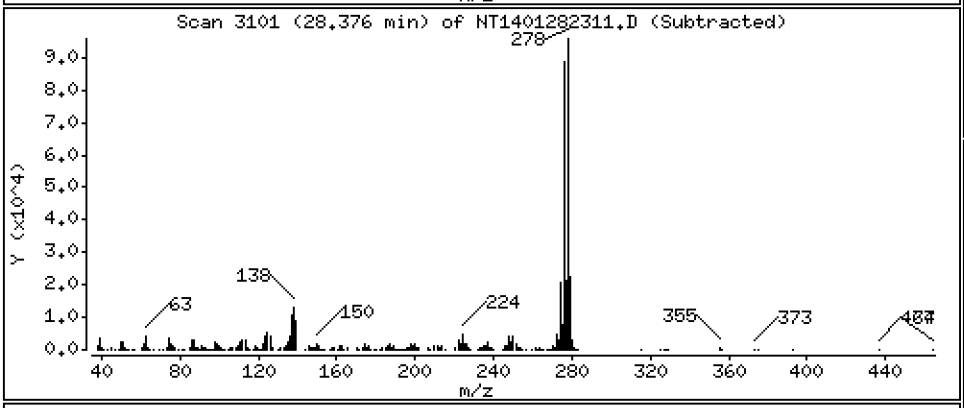
Column phase: ZB-5msi

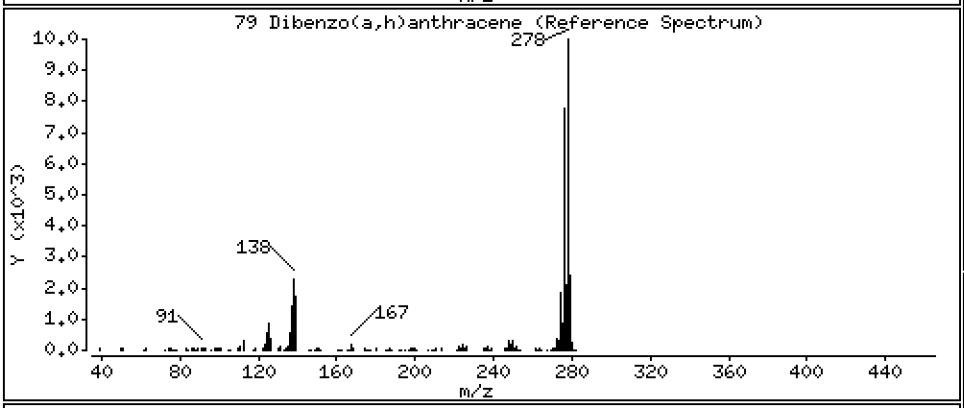
Column diameter: 0.25

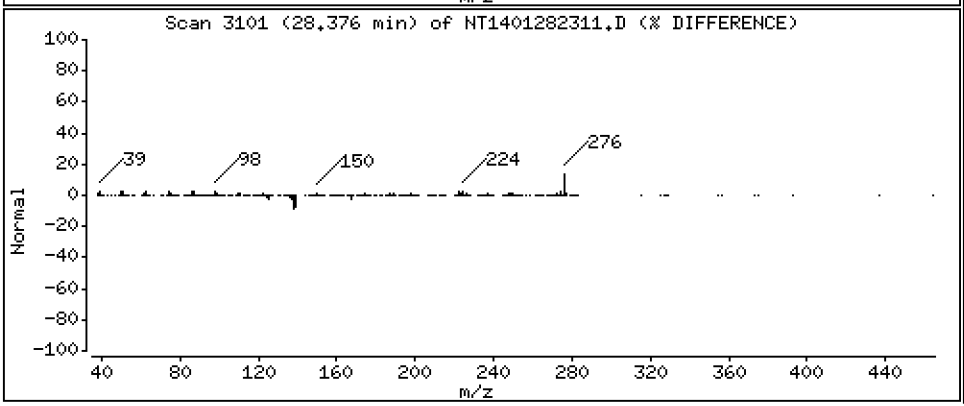
79 Dibenzo(a,h)anthracene

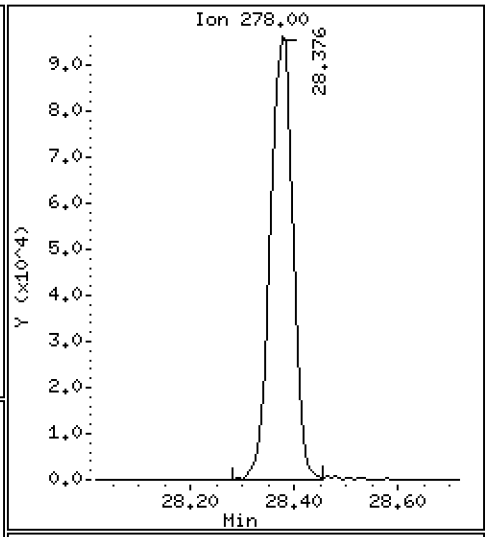
Concentration: 4.455 ug/mL

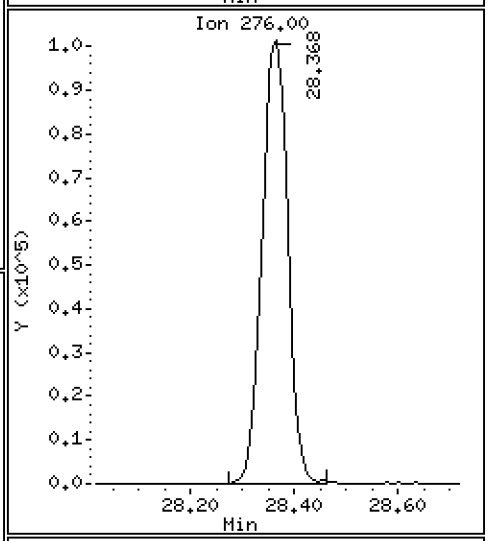


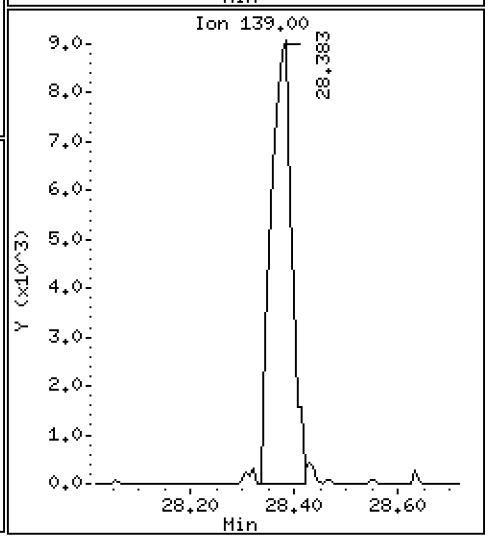












Date : 28-JAN-2023 21:28

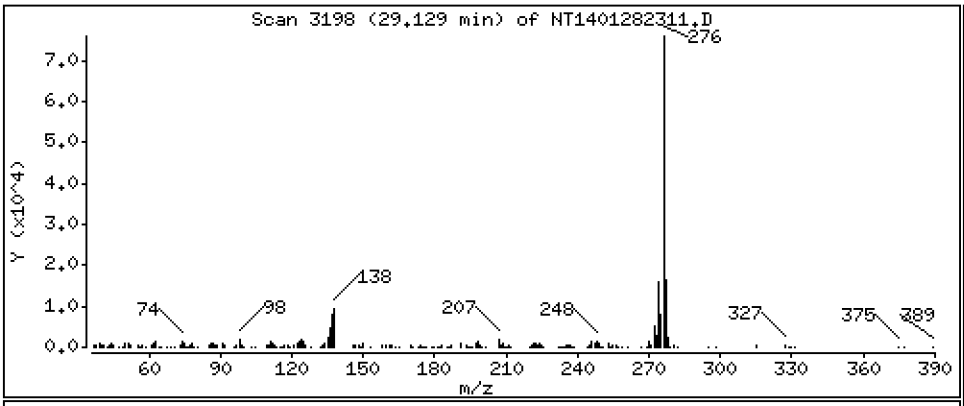
Client ID: Instrument: nt14.i

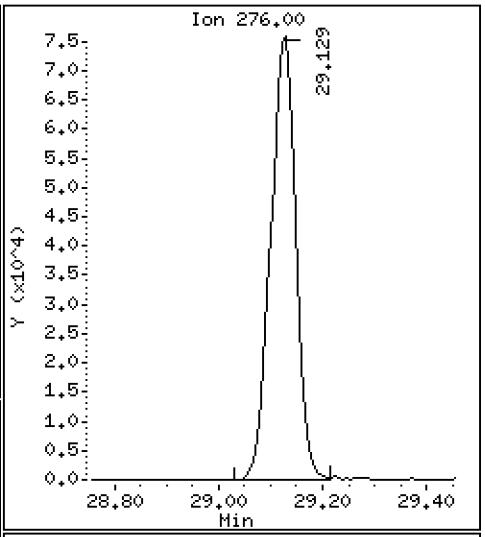
Sample Info: SLA0338-SCV1

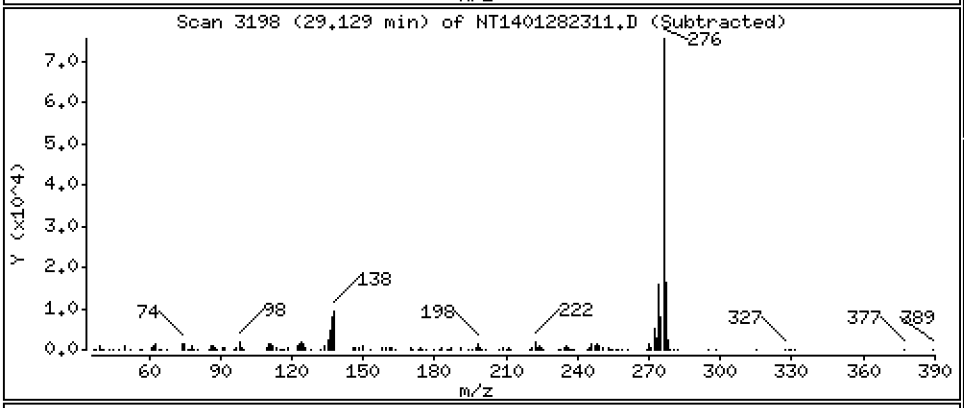
Operator: JGR

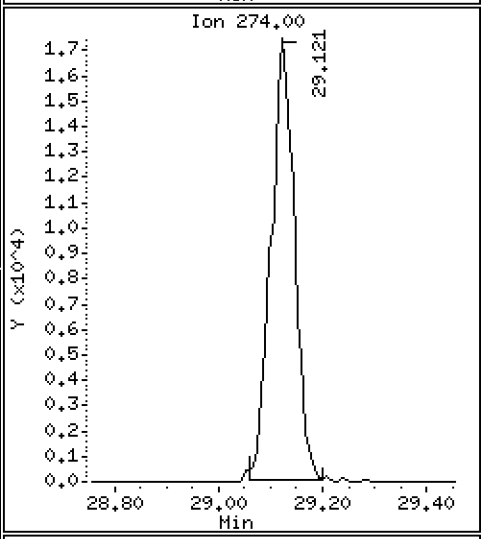
Column phase: ZB-5msi Column diameter: 0.25

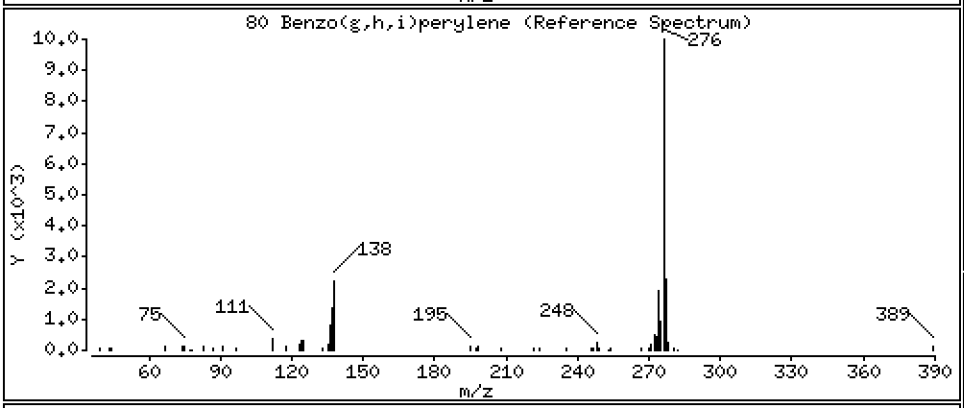
80 Benzo(g,h,i)perylene Concentration: 4.657 ug/mL

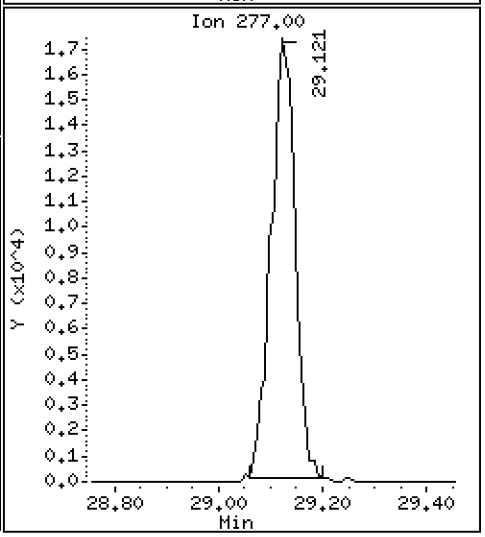


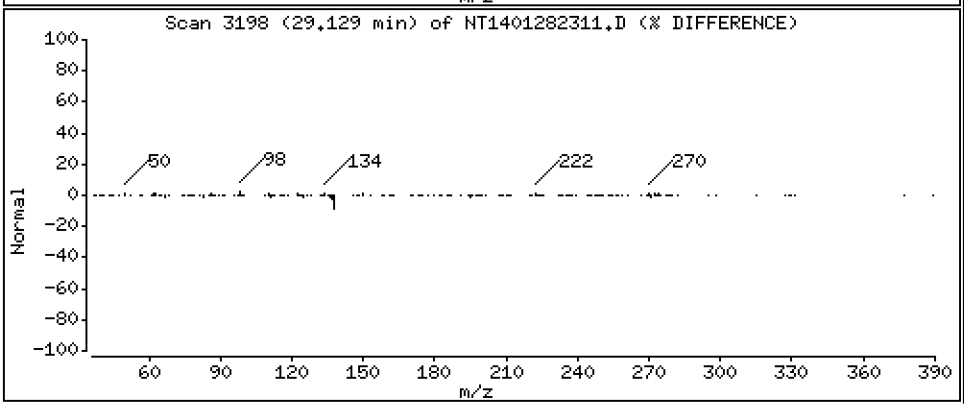












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

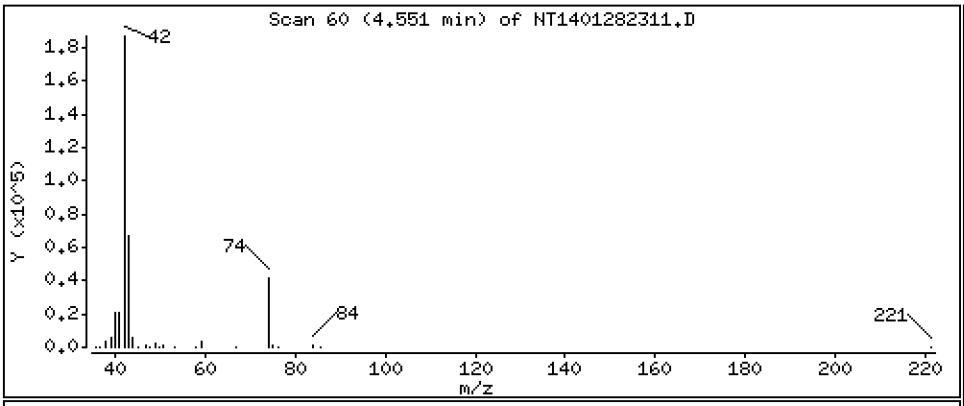
Operator: JGR

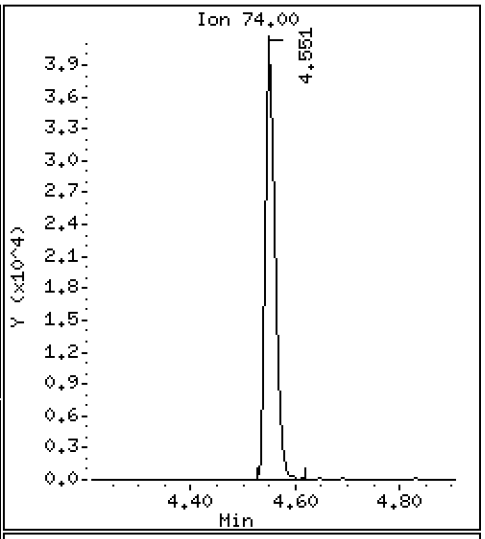
Column phase: ZB-5msi

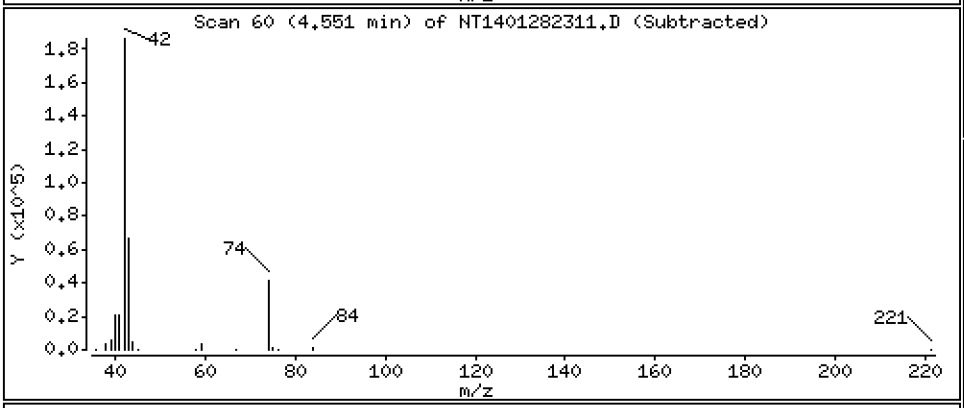
Column diameter: 0.25

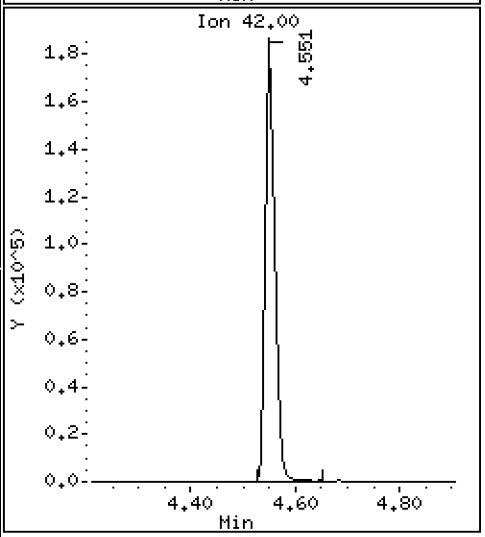
90 N-Nitrosodimethylamine

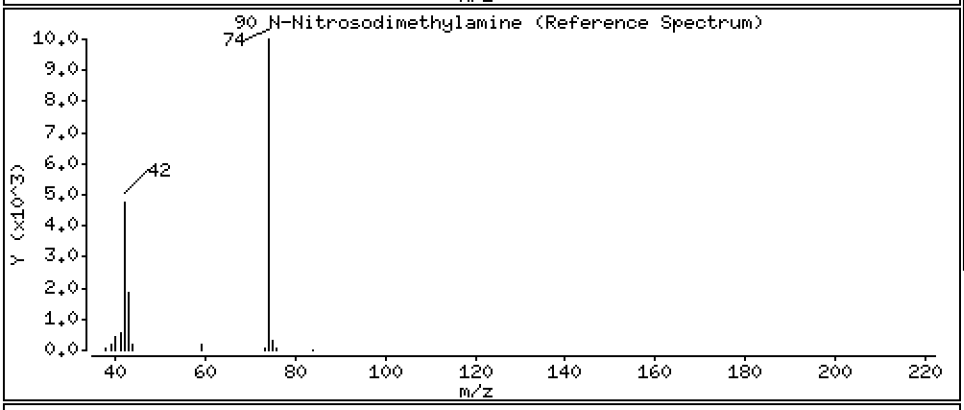
Concentration: 4.932 ug/mL

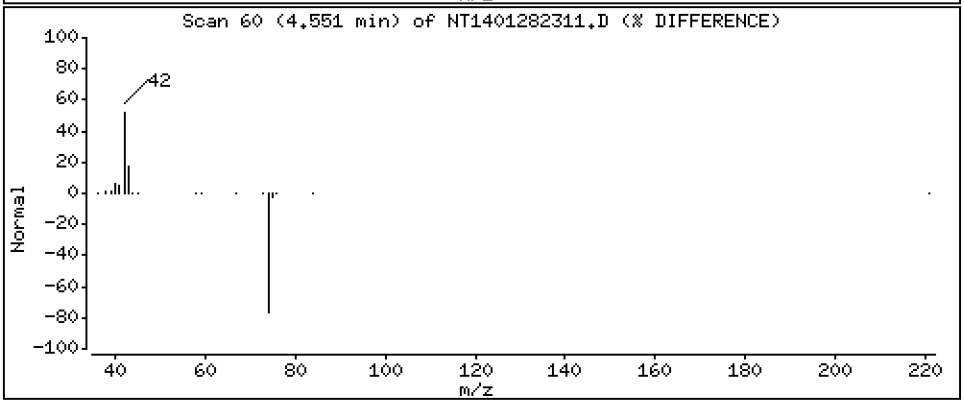












Date : 28-JAN-2023 21:28

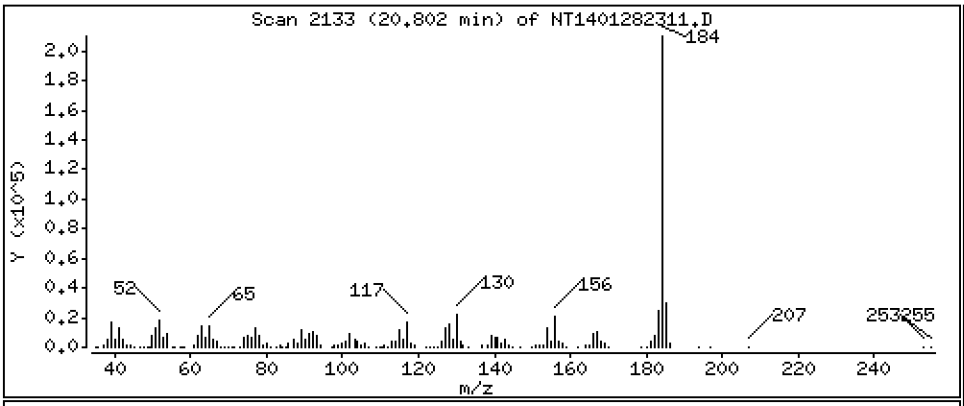
Client ID: Instrument: nt14.i

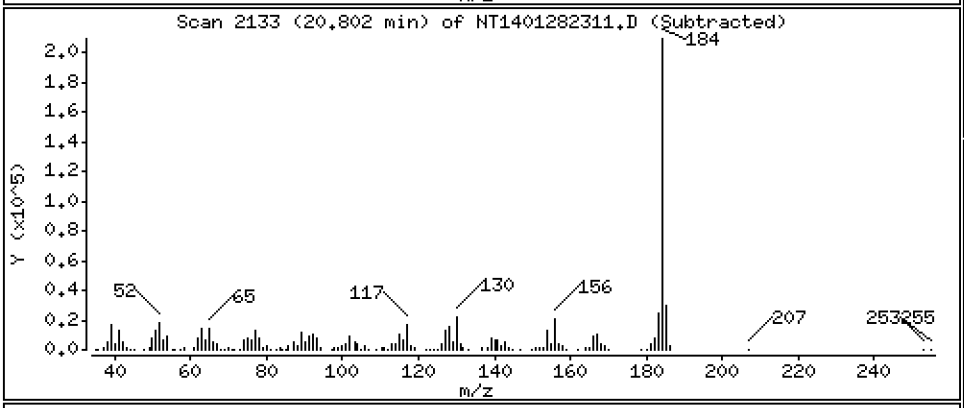
Sample Info: SLA0338-SCV1

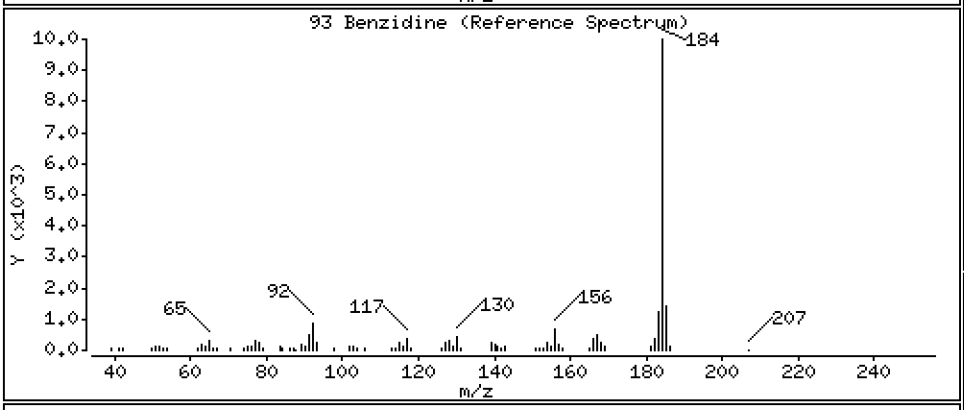
Operator: JGR

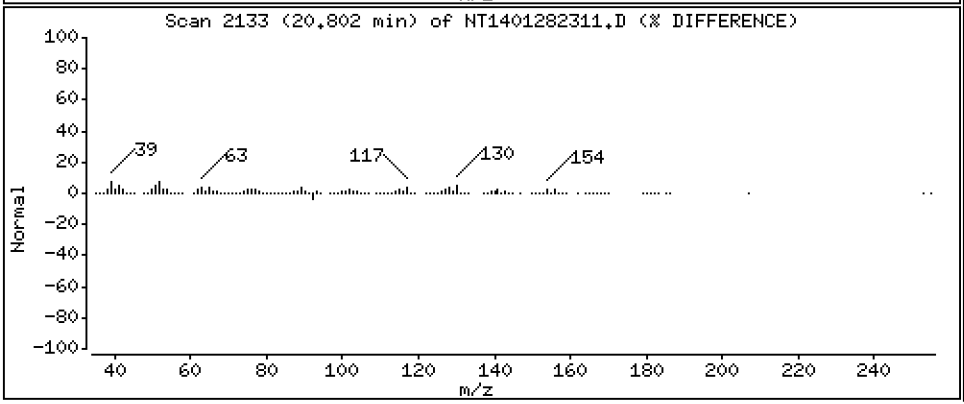
Column phase: ZB-5msi Column diameter: 0.25

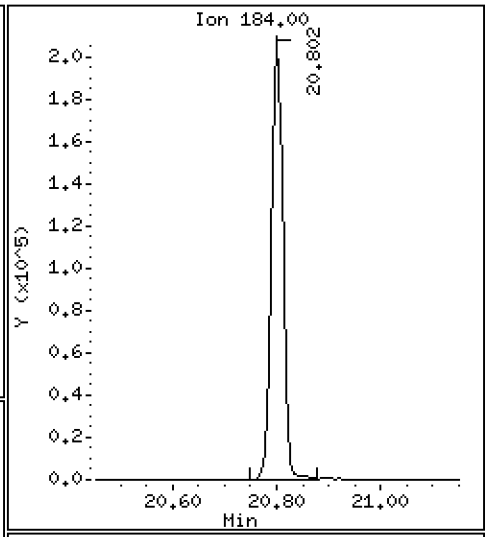
93 Benzidine Concentration: 8.135 ug/mL

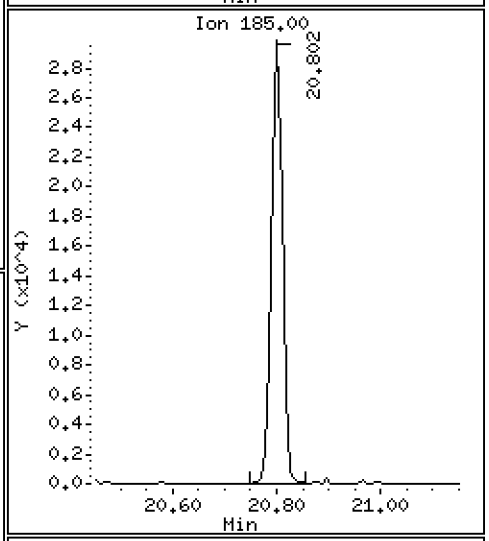


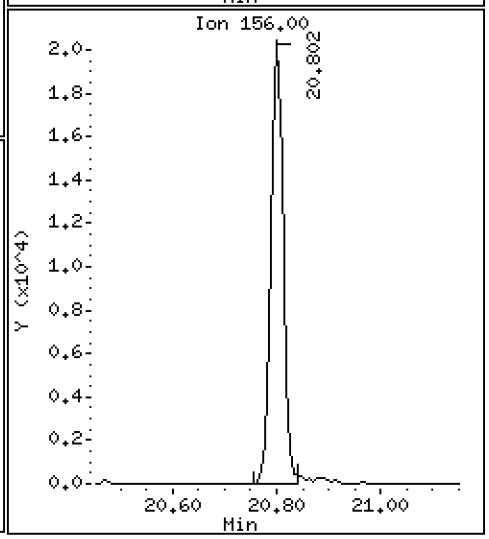












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

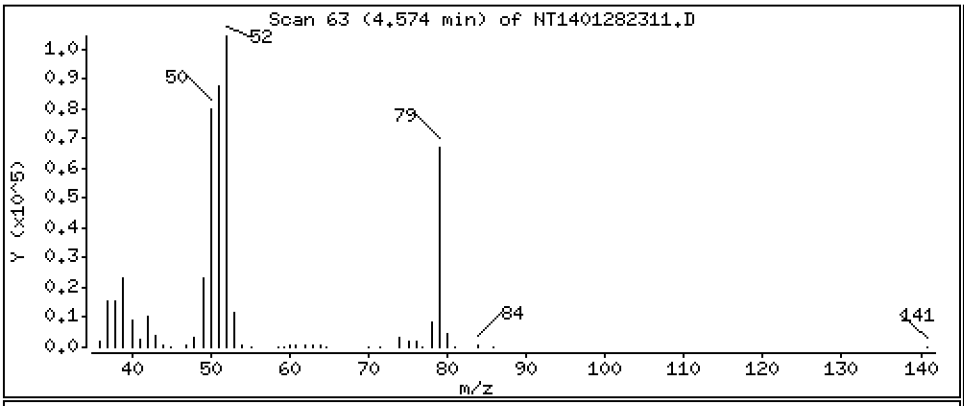
Operator: JGR

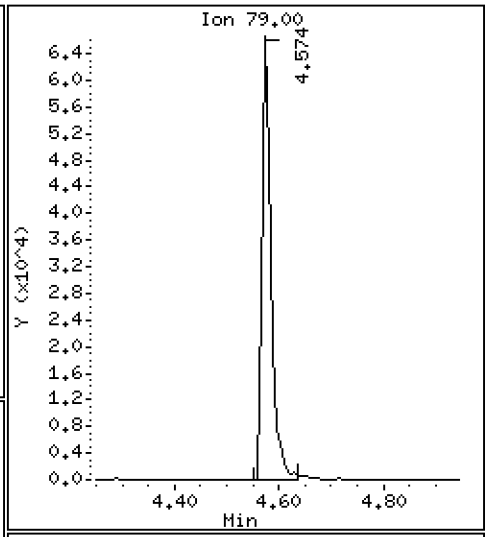
Column phase: ZB-5msi

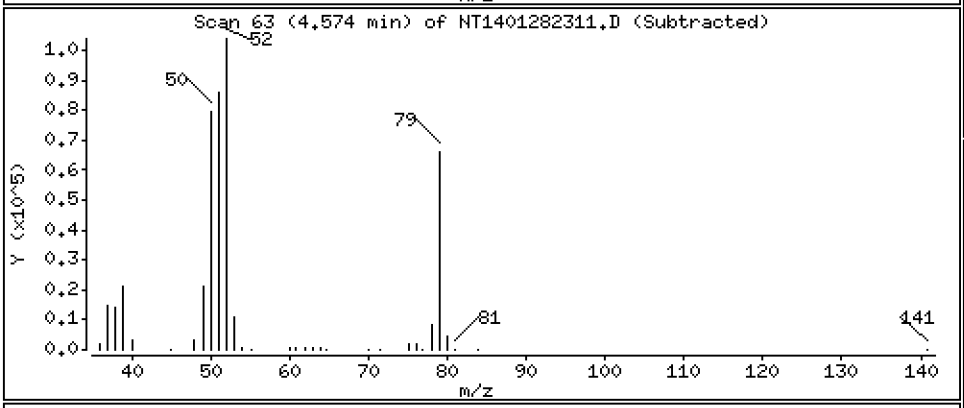
Column diameter: 0.25

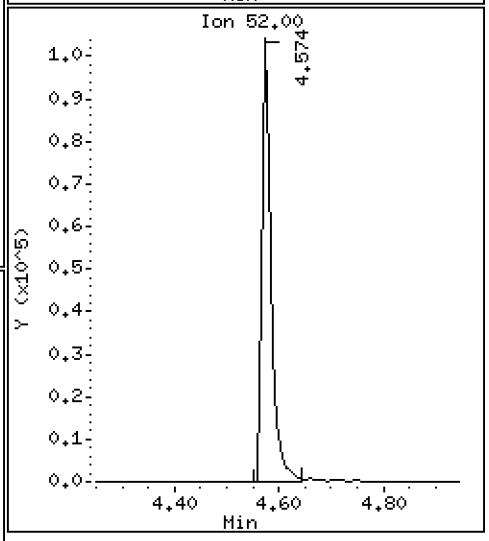
103 Pyridine

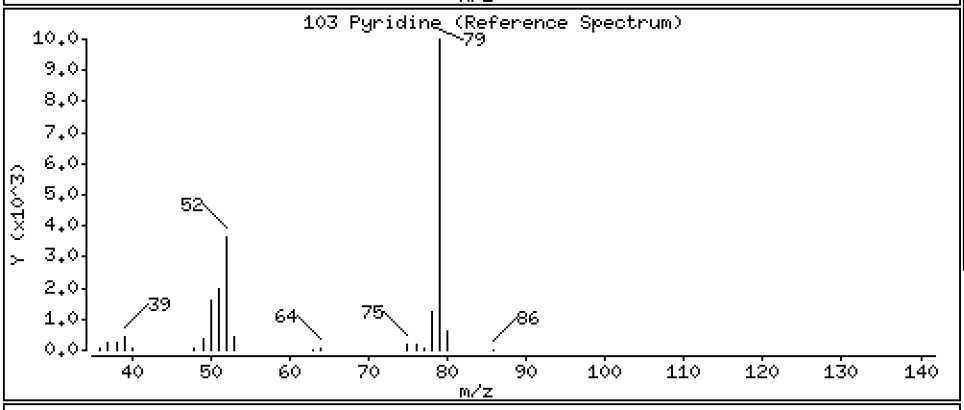
Concentration: 2.723 ug/mL

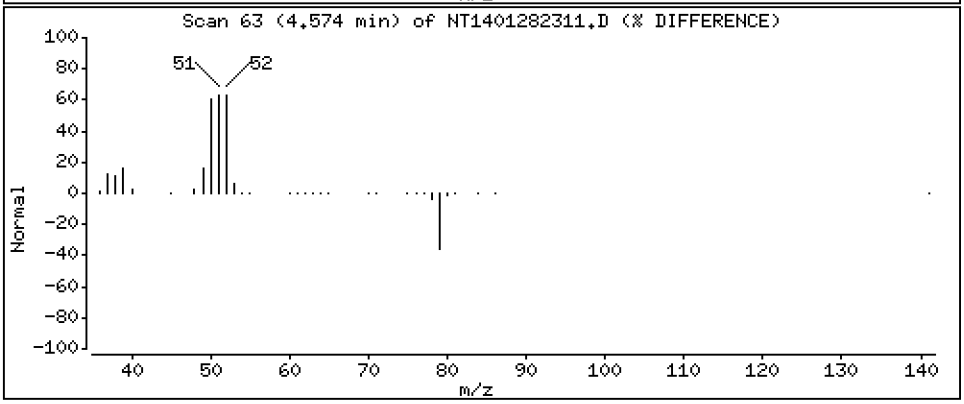












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

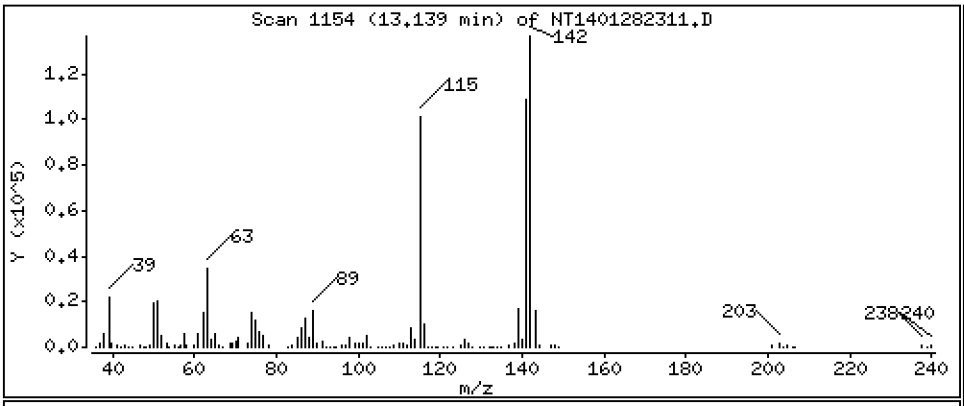
Operator: JGR

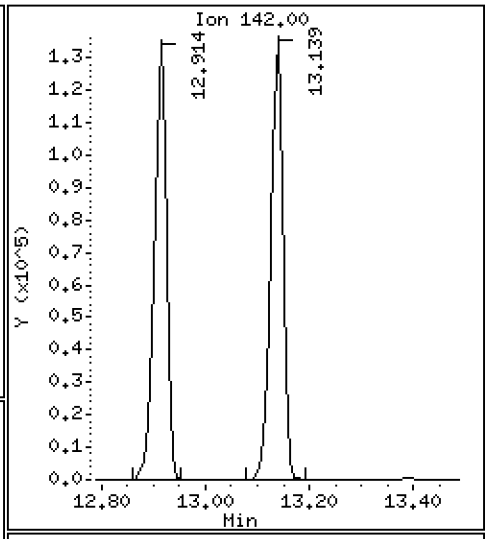
Column phase: ZB-5msi

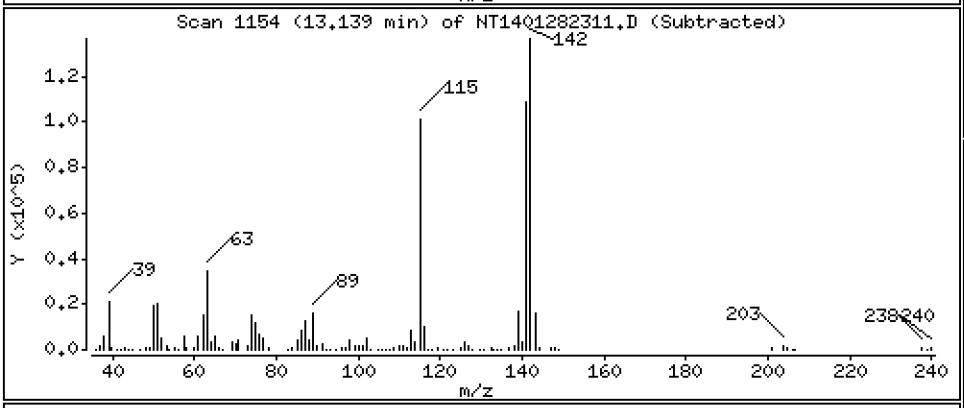
Column diameter: 0.25

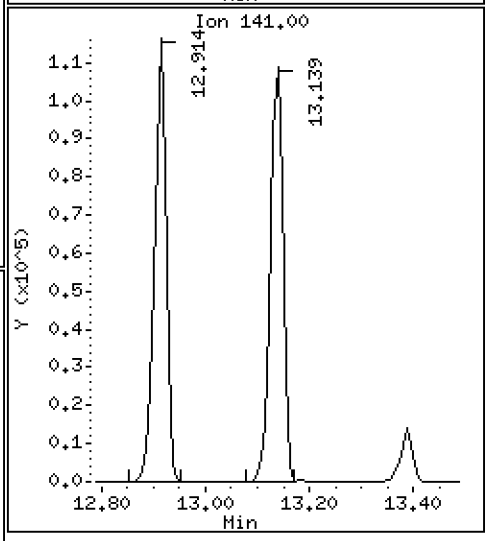
105 1-methylnaphthalene

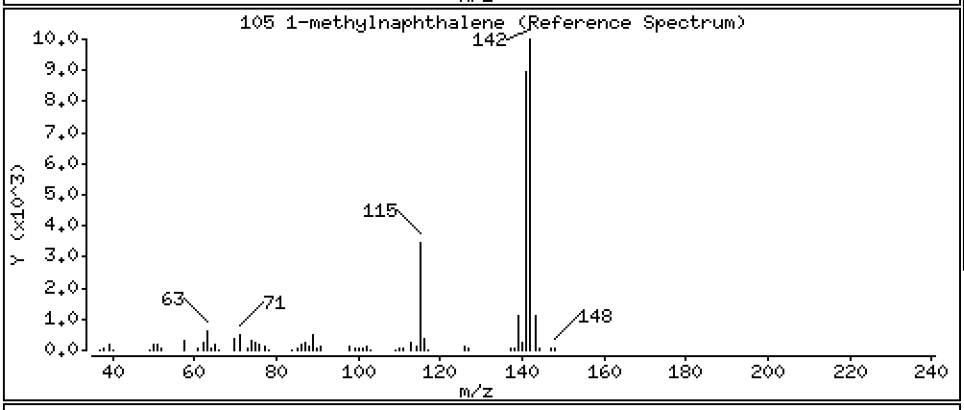
Concentration: 4.378 ug/mL

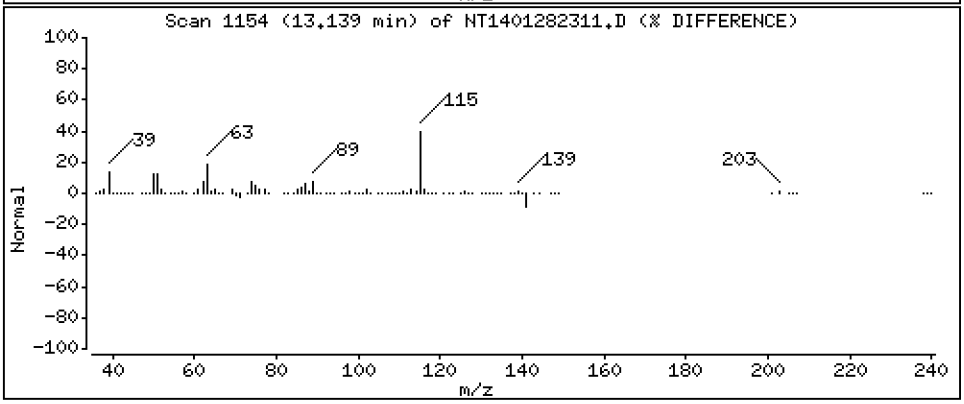












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

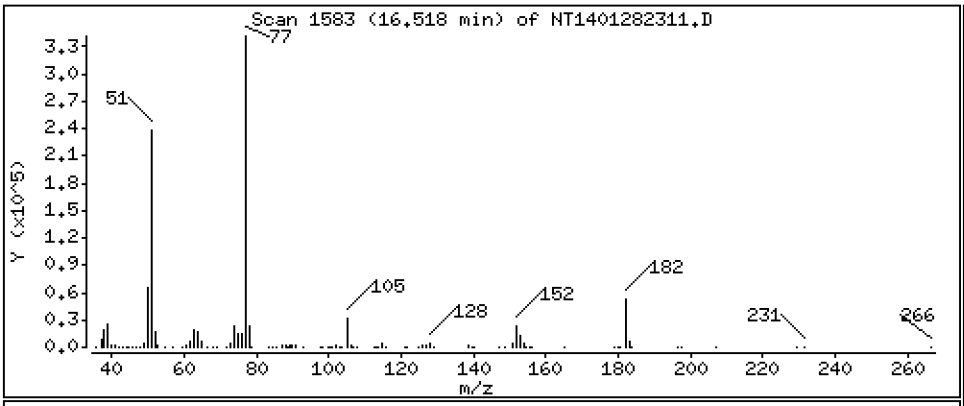
Operator: JGR

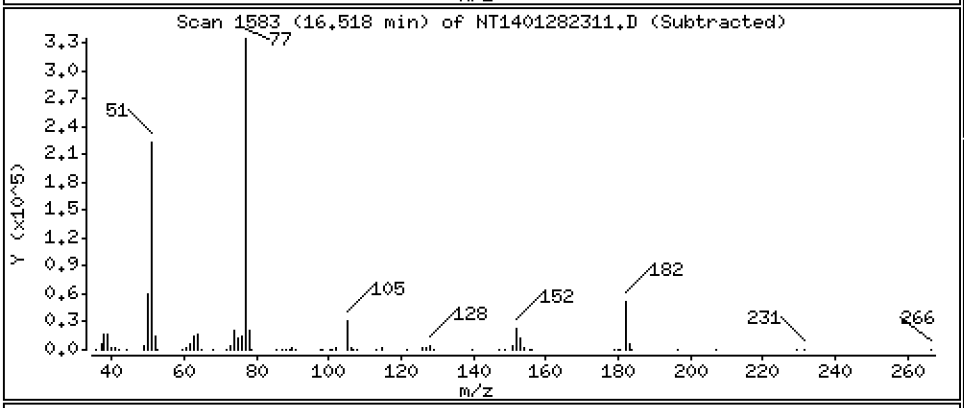
Column phase: ZB-5msi

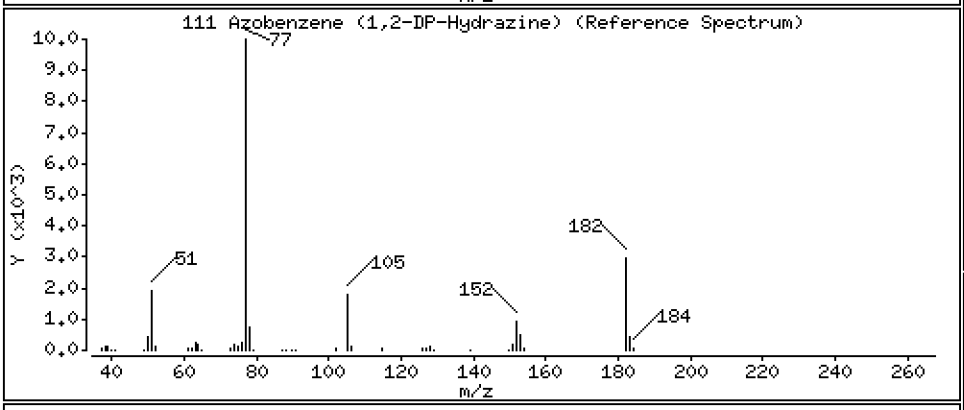
Column diameter: 0.25

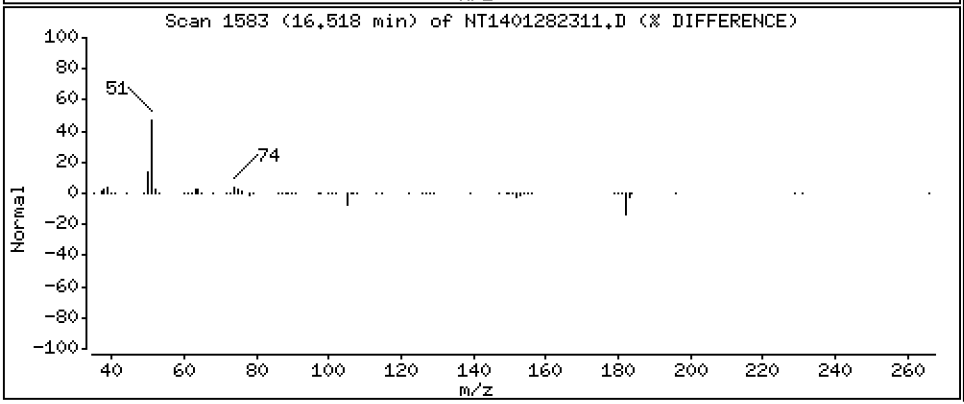
111 Azobenzene (1,2-DP-Hydrazine)

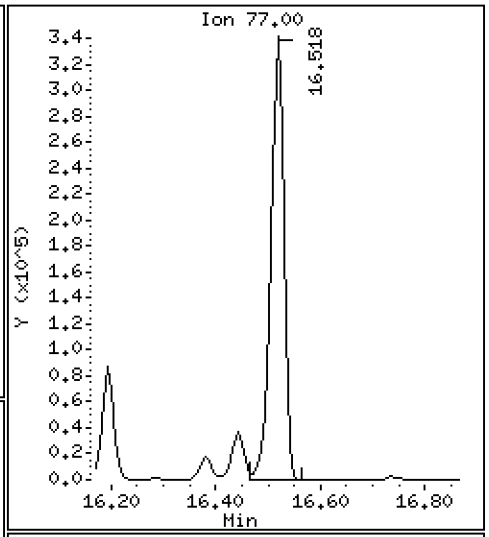
Concentration: 4.801 ug/mL

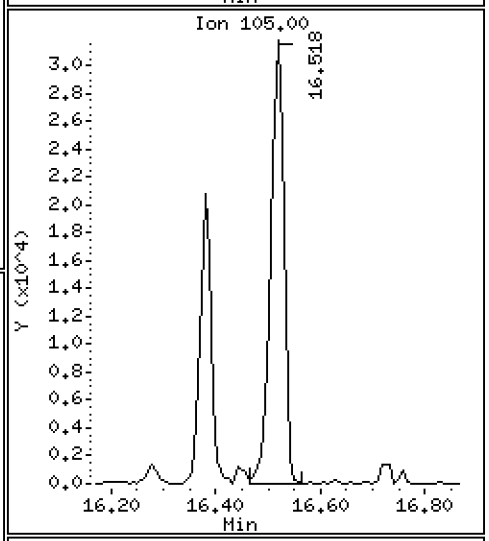


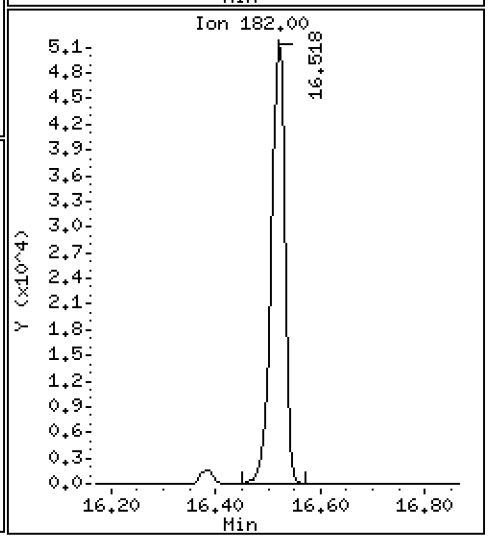












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Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

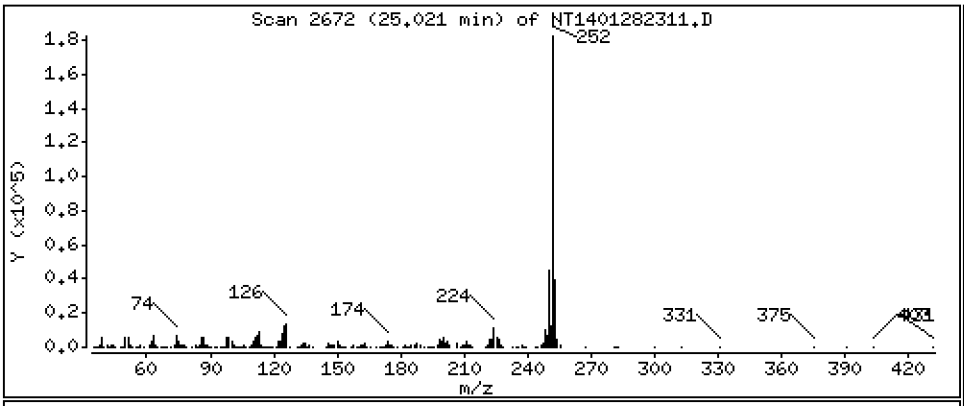
Operator: JGR

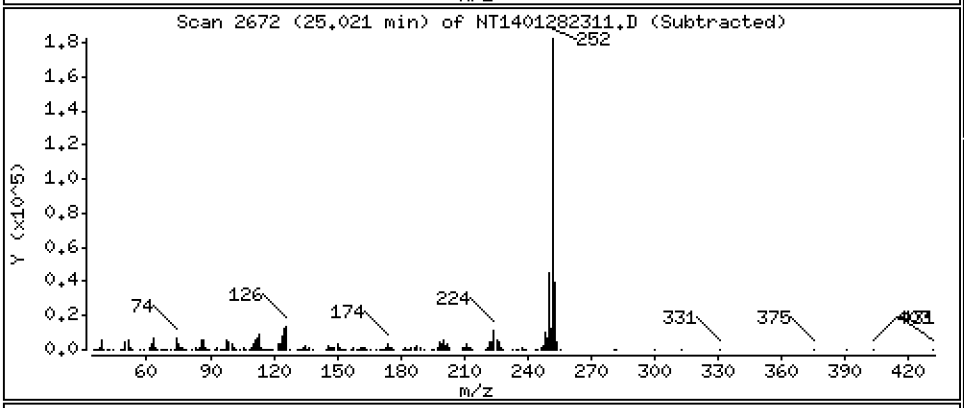
Column phase: ZB-5msi

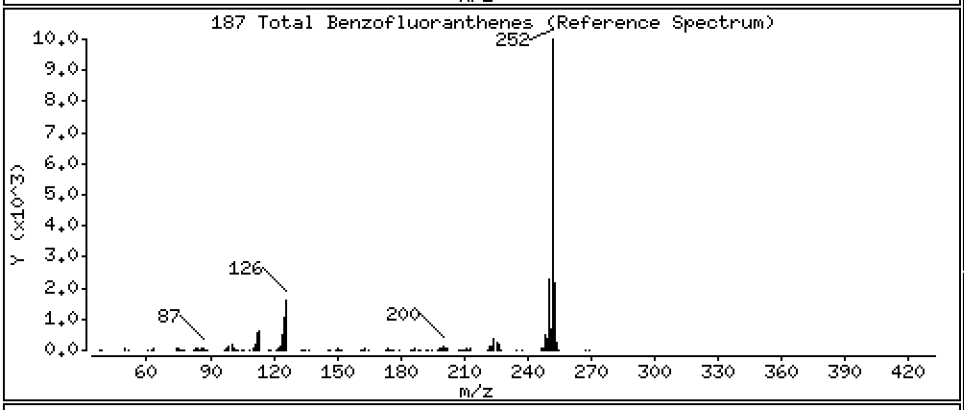
Column diameter: 0.25

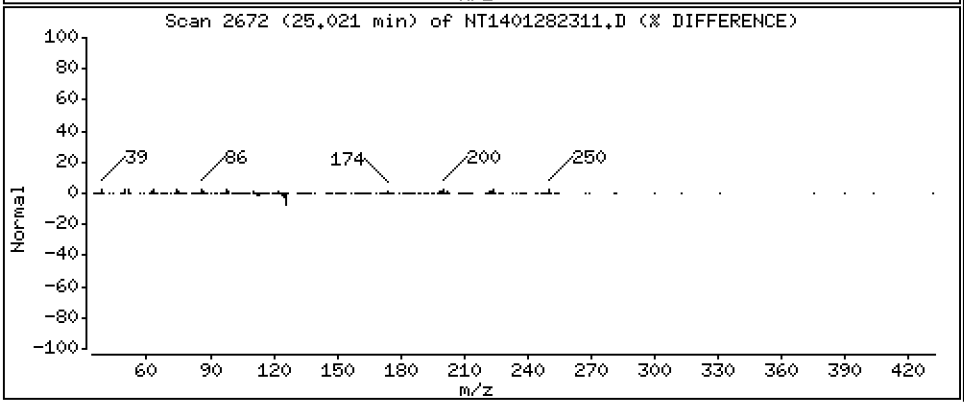
187 Total Benzofluoranthenes

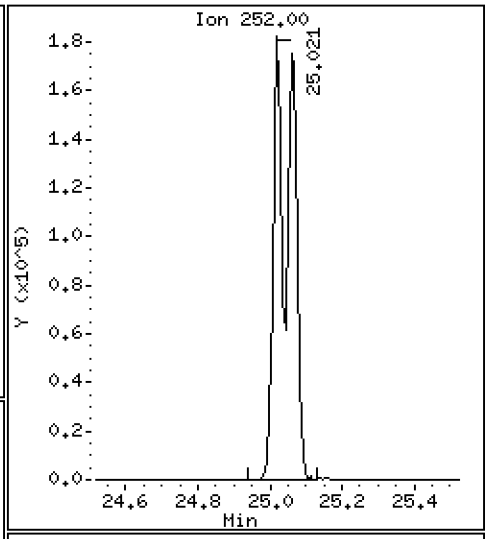
Concentration: 9.093 ug/mL

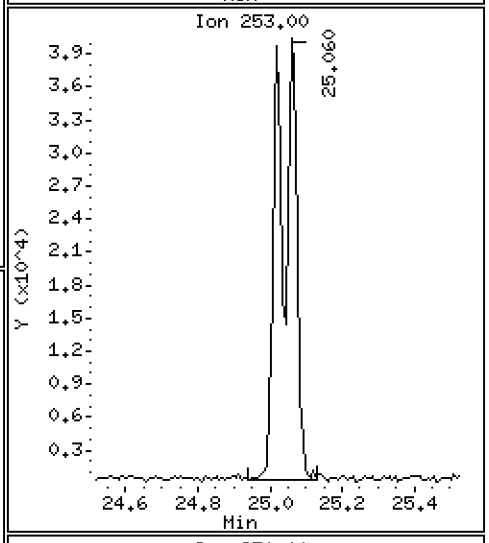


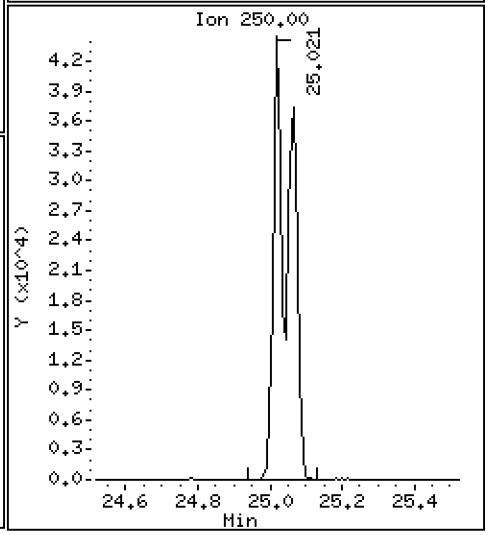












Data File: \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D

Date : 28-JAN-2023 21:28

Client ID:

Instrument: nt14.i

Sample Info: SLA0338-SCV1

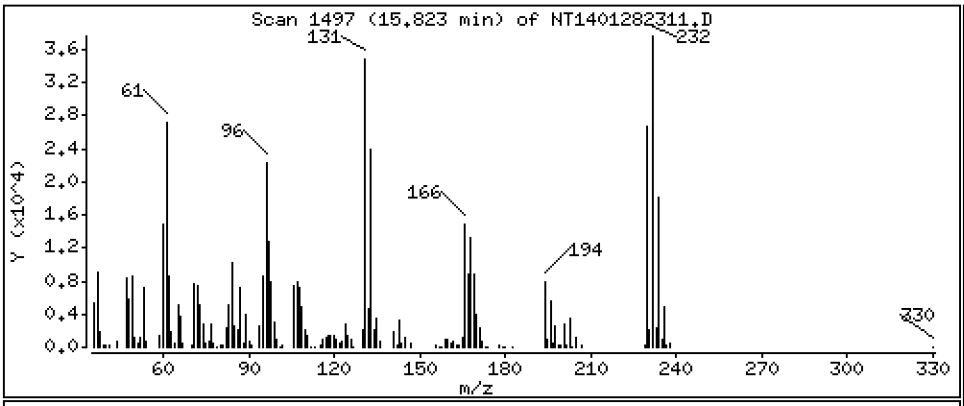
Operator: JGR

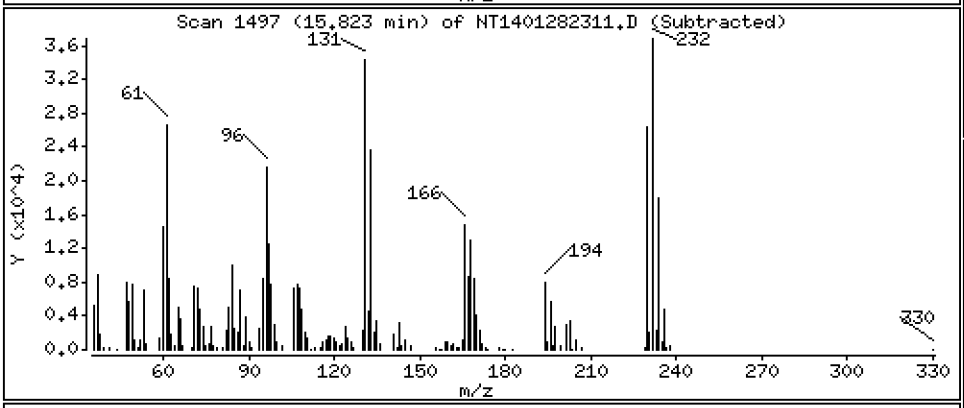
Column phase: ZB-5msi

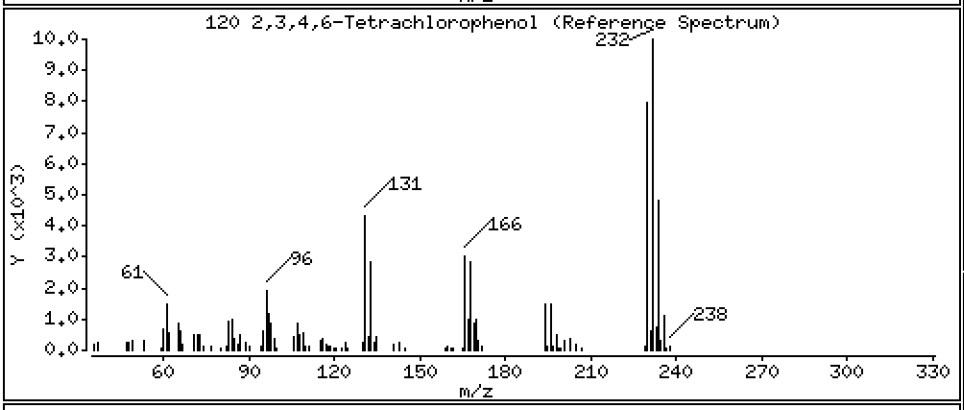
Column diameter: 0.25

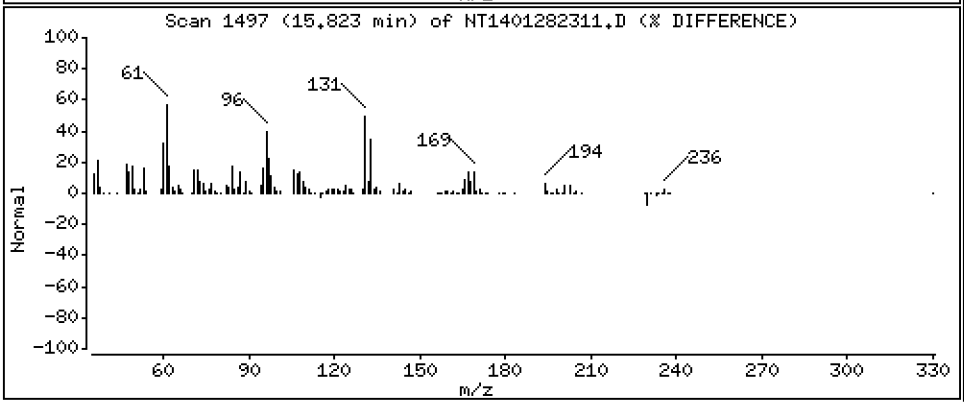
120 2,3,4,6-Tetrachlorophenol

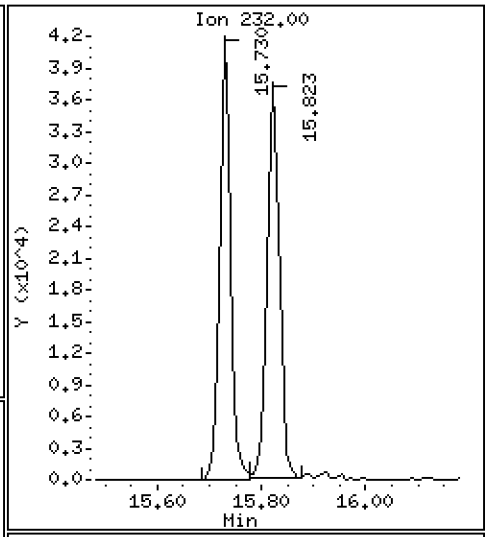
Concentration: 3.160 ug/mL

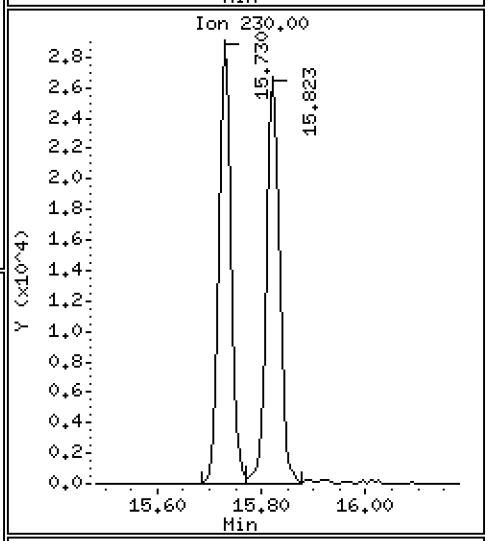


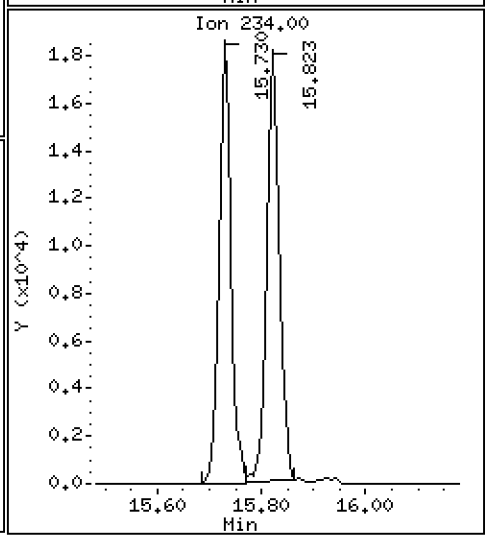












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230128.b\NT1401282311.D
Lab Smp Id: SLA0338-SCV1
Inj Date : 28-JAN-2023 21:28 MS Autotune Date: 17-MAY-2011 01:22
Operator : JGR Inst ID: nt14.i
Smp Info : SLA0338-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230128.b\ABN.m
Meth Date : 30-Jan-2023 15:20 deenayd Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.736	6.744	(0.750)	142455	8.17640	8.176
$	2 Phenol-d5	99	8.328	8.328	(0.928)	176728	7.72018	7.720
	3 Phenol	94	8.351	8.351	(0.930)	107396	3.82486	3.825
$	5 2-Chlorophenol-d4	132	8.606	8.614	(0.959)	166820	7.53435	7.534
	4 Bis(2-Chloroethyl)ether	93	8.521	8.529	(0.949)	85917	5.32016	5.320
	6 2-Chlorophenol	128	8.637	8.637	(0.962)	96403	4.13501	4.135
	7 1,3-Dichlorobenzene	146	8.915	8.915	(0.993)	121707	4.67506	4.675
*	8 1,4-Dichlorobenzene-d4	152	8.977	8.978	(1.000)	64868	4.00000	
	9 1,4-Dichlorobenzene	146	9.009	9.009	(1.003)	122324	4.65035	4.650
$	10 1,2-Dichlorobenzene-d4	152	9.342	9.342	(1.041)	74985	4.77182	4.772
	12 1,2-Dichlorobenzene	146	9.366	9.366	(1.043)	112526	4.35068	4.351
	11 Benzyl alcohol	108	9.249	9.249	(1.030)	61126	4.41562	4.416
	14 2,2'-oxybis(1-Chloropropane)	121	9.560	9.560	(1.065)	36046	4.97722	4.977
	13 2-Methylphenol	108	9.474	9.474	(1.055)	71205	3.30269	3.303
	17 Hexachloroethane	117	9.963	9.963	(1.110)	71298	4.49319	4.493
	16 N-Nitroso-di-n-propylamine	70	9.816	9.808	(1.093)	90956	4.83477	4.835
	15 4-Methylphenol	108	9.746	9.746	(1.086)	83388	3.42678	3.427
$	18 Nitrobenzene-d5	82	10.072	10.072	(0.878)	179644	5.28207	5.282
	19 Nitrobenzene	77	10.111	10.111	(0.881)	162836	4.91275	4.913
	20 Isophorone	82	10.561	10.561	(0.920)	247148	6.59284	6.593
	21 2-Nitrophenol	139	10.739	10.747	(0.936)	52653	4.13380	4.134
	22 2,4-Dimethylphenol	107	10.793	10.794	(0.941)	101570	3.03442	3.034
	23 Bis(2-Chloroethoxy)methane	93	10.995	11.003	(0.958)	103282	5.45389	5.454
	24 Benzoic acid	105	10.949	10.887	(0.954)	134100	6.66881	6.669
	25 2,4-Dichlorophenol	162	11.197	11.197	(0.976)	82473	3.99695	3.997
	26 1,2,4-Trichlorobenzene	180	11.390	11.390	(0.993)	104913	4.47625	4.476
*	27 Naphthalene-d8	136	11.475	11.475	(1.000)	237703	4.00000	
	28 Naphthalene	128	11.514	11.514	(1.003)	287523	4.80744	4.807
	29 4-Chloroaniline	127	11.645	11.645	(1.015)	89314	3.54401	3.544
	30 Hexachlorobutadiene	225	11.884	11.892	(1.036)	86503	4.67468	4.675
	31 4-Chloro-3-methylphenol	107	12.604	12.604	(1.098)	110572	3.94303	3.943
	32 2-Methylnaphthalene	142	12.914	12.914	(1.125)	212414	4.35655	4.357
	33 Hexachlorocyclopentadiene	237	13.386	13.386	(0.887)	94894	4.63684	4.637
	34 2,4,6-Trichlorophenol	196	13.533	13.533	(0.896)	66467	3.71023	3.710

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	35	2,4,5-Trichlorophenol	196	13.602	13.610	(0.901)	71753	3.61565	3.616
$	36	2-Fluorobiphenyl	172	13.703	13.703	(0.908)	260445	5.01878	5.019
	37	2-Chloronaphthalene	162	13.912	13.912	(0.922)	203080	4.70365	4.704
	38	2-Nitroaniline	65	14.160	14.160	(0.938)	114202	4.50892	4.509
	39	Dimethylphthalate	163	14.608	14.601	(0.968)	272366	4.87524	4.875
	40	Acenaphthylene	152	14.779	14.779	(0.979)	317280	4.69456	4.695
	41	2,6-Dinitrotoluene	165	14.740	14.740	(0.976)	59026	4.60306	4.603
*	42	Acenaphthene-d10	164	15.096	15.096	(1.000)	145815	4.00000	
	43	3-Nitroaniline	138	15.019	15.011	(0.995)	55408	4.47552	4.476
	44	Acenaphthene	153	15.166	15.158	(1.005)	220685	4.82742	4.827
	45	2,4-Dinitrophenol	184	15.227	15.227	(1.009)	26546	2.10608	2.106
	46	Dibenzofuran	168	15.490	15.490	(1.026)	301624	4.55314	4.553
	47	4-Nitrophenol	109	15.328	15.328	(1.015)	93172	3.65684	3.657
	48	2,4-Dinitrotoluene	165	15.544	15.544	(1.030)	76743	4.31208	4.312
	50	Diethylphthalate	149	16.062	16.062	(1.064)	402237	4.95468	4.955
	49	Fluorene	166	16.201	16.202	(1.073)	405552	4.72437	4.724
	51	4-Chlorophenyl-phenylether	204	16.194	16.202	(1.073)	209803	4.48351	4.484
	52	4-Nitroaniline	138	16.279	16.271	(1.078)	66232	4.50523	4.505
	53	4,6-Dinitro-2-methylphenol	198	16.379	16.379	(0.903)	57690	3.42165	3.422
	54	N-Nitrosodiphenylamine	169	16.441	16.441	(0.907)	218170	4.52786	4.528
$	55	2,4,6-Tribromophenol	330	16.734	16.741	(1.108)	96224	7.86038	7.860
	56	4-Bromophenyl-phenylether	248	17.204	17.204	(0.949)	102800	4.57711	4.577
	57	Hexachlorobenzene	284	17.513	17.513	(0.966)	114130	4.45289	4.453
	58	Pentachlorophenol	266	17.869	17.869	(0.985)	48355	3.43887	3.439
*	59	Phenanthrene-d10	188	18.132	18.132	(1.000)	284750	4.00000	
	60	Phenanthrene	178	18.179	18.179	(1.003)	349868	4.55376	4.554
	61	Anthracene	178	18.271	18.279	(1.008)	298207	4.06199	4.062
	62	Carbazole	167	18.596	18.604	(1.026)	295557	4.38432	4.384
	63	Di-n-butylphthalate	149	19.409	19.409	(1.070)	517154	4.94804	4.948
	64	Fluoranthene	202	20.569	20.569	(0.887)	410997	4.75515	4.755
	65	Pyrene	202	20.995	20.995	(0.906)	403045	4.70186	4.702
$	66	Terphenyl-d14	244	21.281	21.289	(0.918)	360406	5.00371	5.004
	67	Butylbenzylphthalate	149	22.210	22.210	(0.958)	227643	4.84394	4.844
	68	Benzo(a)anthracene	228	23.155	23.155	(0.999)	363082	4.57076	4.571
*	69	Chrysene-d12	240	23.186	23.186	(1.000)	217792	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.116	23.108	(0.997)	296415	8.22577	8.226
	71	Chrysene	228	23.232	23.232	(1.002)	351735	4.46577	4.466
	72	bis(2-Ethylhexyl)phthalate	149	23.240	23.240	(0.960)	327626	4.82272	4.823
*	134	Di-n-octylphthalate-d4	153	24.215	24.215	(1.000)	398967	4.00000	
	73	Di-n-octylphthalate	149	24.223	24.231	(1.000)	487047	4.83491	4.835
	74	Benzo(b)fluoranthene	252	25.021	25.021	(0.971)	328122	4.73403	4.734
	75	Benzo(k)fluoranthene	252	25.059	25.059	(0.972)	311305	4.38699	4.387
	76	Benzo(a)pyrene	252	25.663	25.648	(0.996)	275946	4.65954	4.660
*	77	Perylene-d12	264	25.772	25.772	(1.000)	197244	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.367	28.367	(1.101)	346858	4.63593	4.636
	79	Dibenzo(a,h)anthracene	278	28.375	28.367	(1.101)	287062	4.45522	4.455
	80	Benzo(g,h,i)perylene	276	29.128	29.105	(1.130)	258055	4.65739	4.657
	90	N-Nitrosodimethylamine	74	4.550	4.558	(0.507)	51870	4.93189	4.932
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	20.801	20.801	(0.897)	299598	8.13487	8.135
	103	Pyridine	79	4.574	4.597	(0.509)	82576	2.72310	2.723
	105	1-methylnaphthalene	142	13.138	13.138	(1.145)	207286	4.37784	4.378
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.518	16.518	(1.094)	561058	4.80071	4.801
	187	Total Benzofluoranthenes	252	25.021	25.021	(0.971)	613592	9.09346	9.093

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	15.823	15.830	(1.048)	60195	3.16050	3.160

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1401282311.D
Lab Smp Id: SLA0338-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt14.i\20230128.b\ABN.m
Misc Info:

Calibration Date: 28-JAN-2023
Calibration Time: 17:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	53060	26530	106120	64868	22.25
27 Naphthalene-d8	202004	101002	404008	237703	17.67
42 Acenaphthene-d10	124451	62226	248902	145815	17.17
59 Phenanthrene-d10	239860	119930	479720	284750	18.72
69 Chrysene-d12	191274	95637	382548	217792	13.86
134 Di-n-octylphthala	341876	170938	683752	398967	16.70
77 Perylene-d12	162367	81184	324734	197244	21.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.99	8.49	9.49	8.98	-0.09
27 Naphthalene-d8	11.48	10.98	11.98	11.48	0.00
42 Acenaphthene-d10	15.10	14.60	15.60	15.10	-0.05
59 Phenanthrene-d10	18.14	17.64	18.64	18.13	-0.04
69 Chrysene-d12	23.19	22.69	23.69	23.19	-0.03
134 Di-n-octylphthala	24.22	23.72	24.72	24.22	-0.03
77 Perylene-d12	25.77	25.27	26.27	25.77	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1401282311.D

Lab ID: SLA0338-SCV1
nt14.i, 20230128.b\ABN.m,   28-JAN-2023 21:28

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.949	0.0054	Benzoic acid

RRT check based on Ccal File: NT1401282308.D

On Column LOD for nt14.i, 20230128.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT14	Calibration:	GA00072
Lab File ID:	NT1402032319.D	Calibration Date:	01/28/2023
Sequence:	SLB0035	Injection Date:	02/03/23
Lab Sample ID:	SLB0035-CCV1	Injection Time:	23:57
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Phenol	A	5.0000	3.9	1.7314190	1.3558690		-21.7	+/-50	
4-Methylphenol	A	5.0000	4.0	1.5005370	1.2093470		-19.4	+/-50	
Naphthalene	A	5.0000	4.8	1.0064310	0.9705073		-3.6	+/-50	
2-Methylnaphthalene	A	5.0000	4.8	0.8204755	0.7926695		-3.4	+/-50	
Acenaphthylene	A	5.0000	4.9	1.8539820	1.8325430		-1.2	+/-50	
Dimethylphthalate	A	5.0000	5.1	1.5325510	1.5513450		1.2	+/-50	
Acenaphthene	A	5.0000	4.9	1.2540530	1.2404630		-1.1	+/-50	
Dibenzofuran	A	5.0000	5.2	1.8172410	1.8788820		3.4	+/-50	
Fluorene	A	5.0000	4.8	2.3310880	2.2627280		-4.0	+/-50	
Phenanthrene	A	5.0000	4.7	1.0792710	1.0220170		-5.3	+/-50	
Anthracene	A	5.0000	5.0	1.0312780	1.0326920		0.1	+/-50	
Fluoranthene	A	5.0000	8.1	1.6266230	2.6878370		61.4	+/-50	*
Pyrene	A	5.0000	7.5	1.6247260	2.4688360		50.7	+/-50	*
Butylbenzylphthalate	A	5.0000	5.9	0.8300818	1.0377300		18.7	+/-50	
Benzo(a)anthracene	A	5.0000	4.8	1.4589300	1.3936620		-4.5	+/-50	
Chrysene	A	5.0000	5.0	1.5331530	1.4561010		-0.1	+/-50	
bis(2-Ethylhexyl)phthalate	A	5.0000	5.0	0.6849635	0.6795252		-0.4	+/-50	
Benzofluoranthenes, Total	A	10.000	9.1	1.3683800	1.2511350		-8.6	+/-50	
Benzo(a)pyrene	A	5.0000	4.7	1.2009850	1.1188110		-6.8	+/-50	
Indeno(1,2,3-cd)pyrene	A	5.0000	4.8	1.5172980	1.4529530		-4.2	+/-50	
Dibenzo(a,h)anthracene	A	5.0000	4.8	1.3066590	1.2652550		-3.2	+/-50	
Benzo(g,h,i)perylene	A	5.0000	4.5	1.1236370	1.0137980		-9.8	+/-50	
2-Fluorophenol	A	7.5000	5.96	1.0743480	0.8543648		-20.5	+/-50	
Phenol-d5	A	7.5000	6.89	1.4115870	1.2973320		-8.1	+/-50	
2-Chlorophenol-d4	A	7.5000	7.36	1.3653120	1.3406210		-1.8	+/-50	
1,2-Dichlorobenzene-d4	A	5.0000	5.15	0.9689903	0.9973140		2.9	+/-50	
Nitrobenzene-d5	A	5.0000	4.73	0.5723133	0.5415466		-5.4	+/-50	
2-Fluorobiphenyl	A	5.0000	5.27	1.4235590	1.5017110		5.5	+/-50	
2,4,6-Tribromophenol	A	7.5000	7.57	0.3434165	0.3381859		0.9	+/-50	
p-Terphenyl-d14	A	5.0000	7.82	1.3753550	2.1553090		56.5	+/-50	*

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

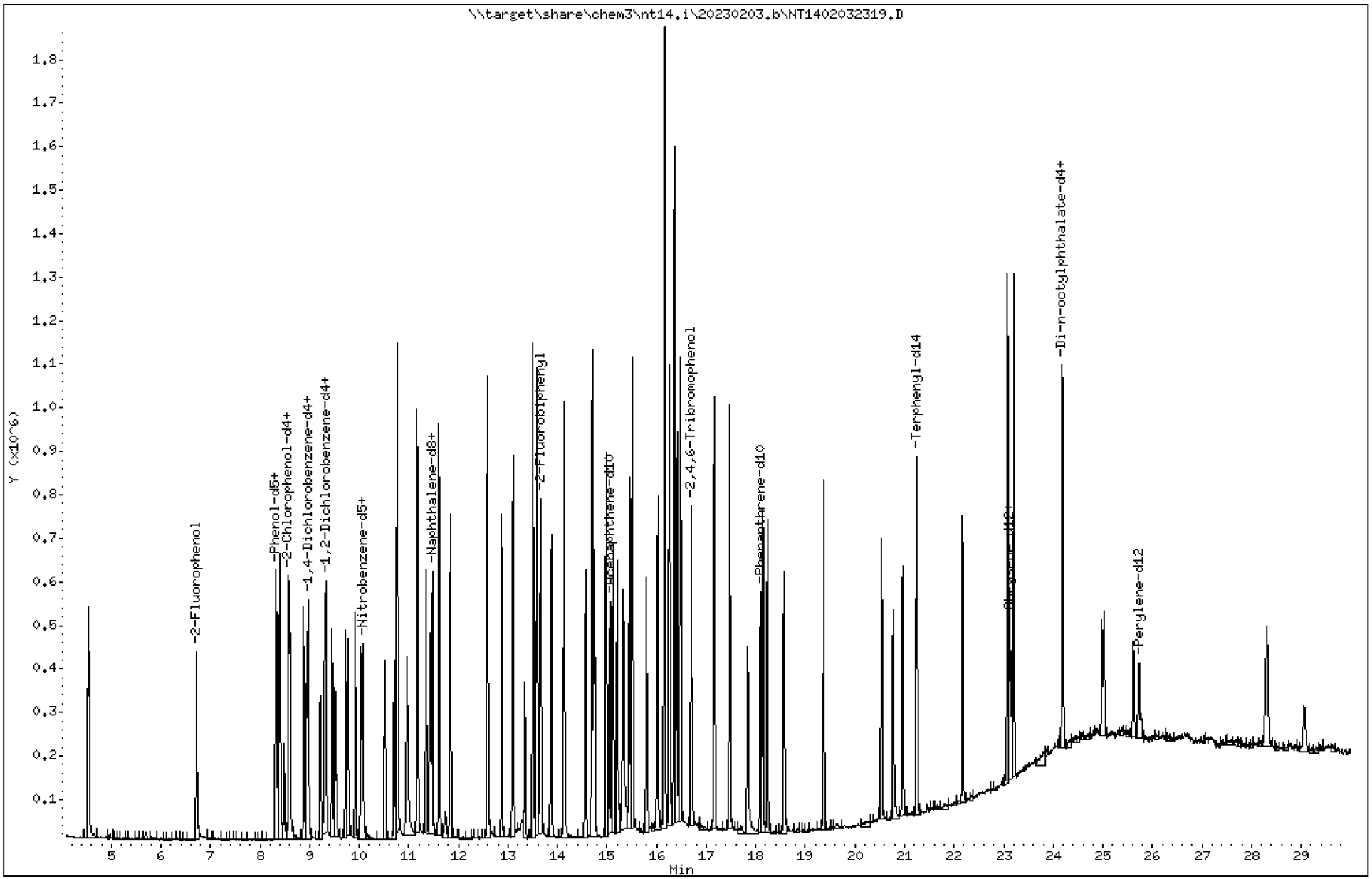
Instrument: nt14.i

Sample Info: SLB0035-CCV1

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

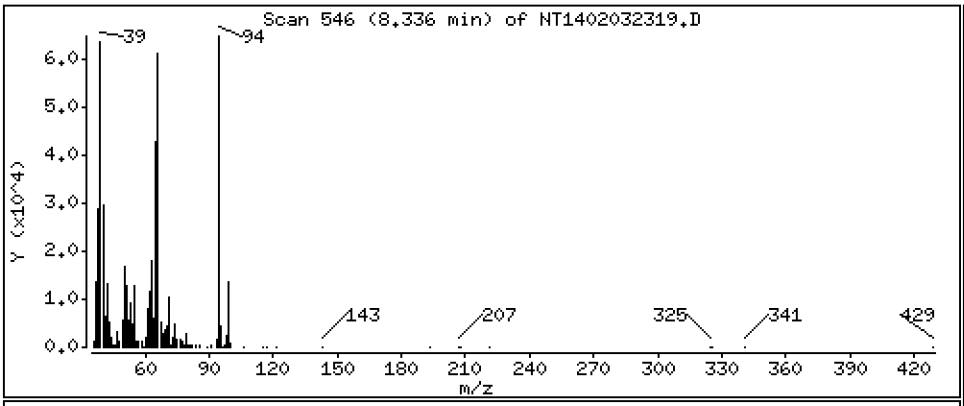
Operator: DSD

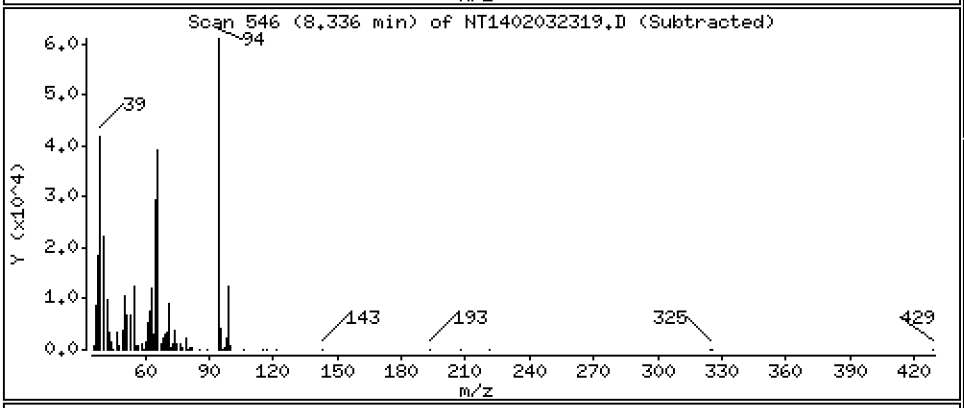
Column phase: ZB-5msi

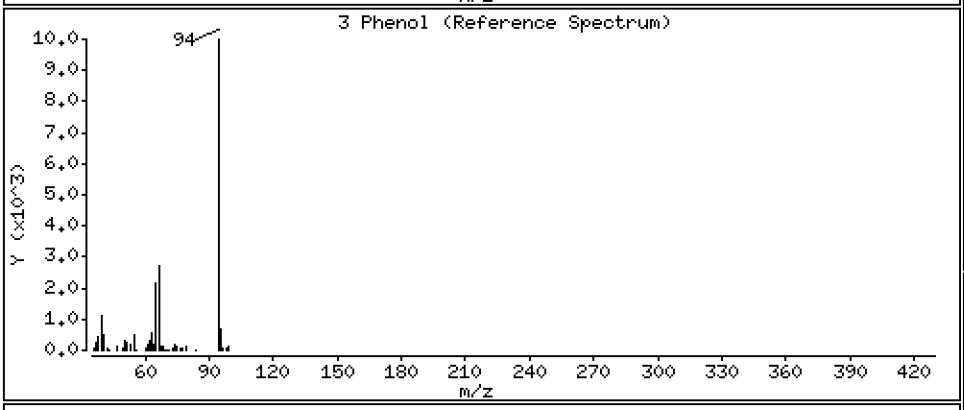
Column diameter: 0.25

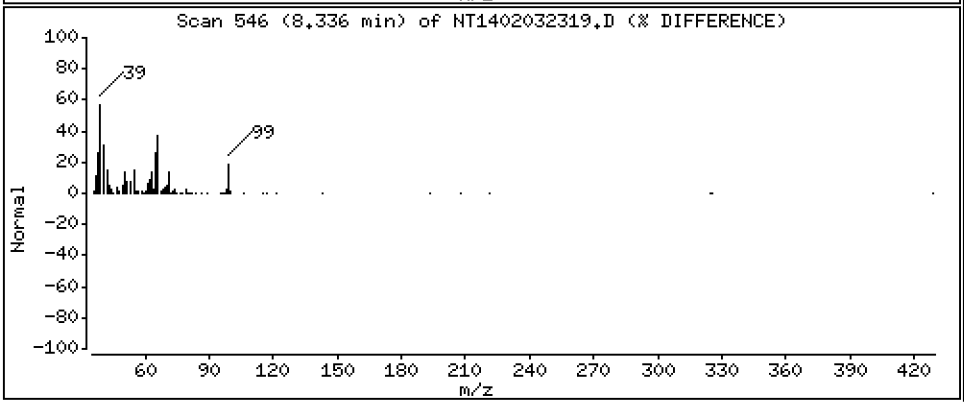
3 Phenol

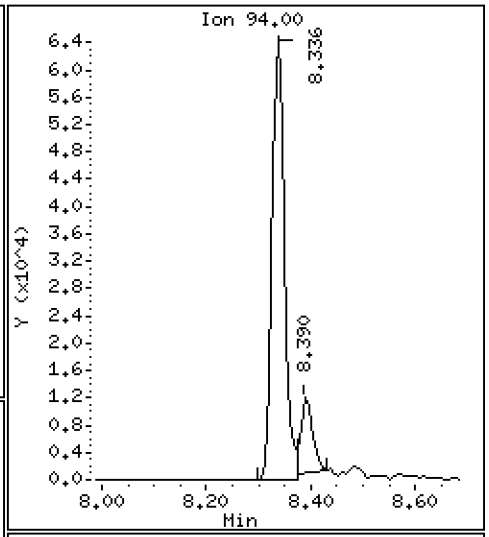
Concentration: 3.915 ug/mL

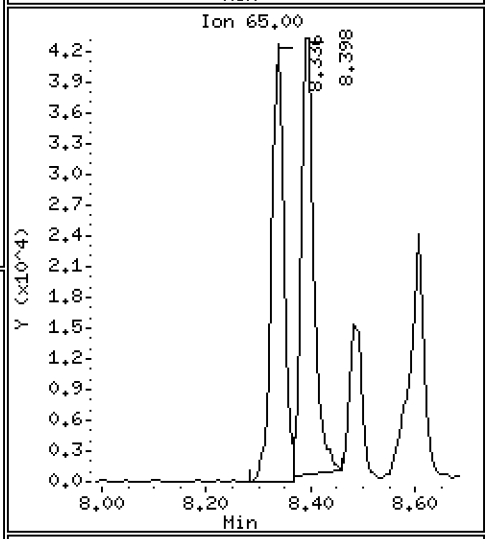


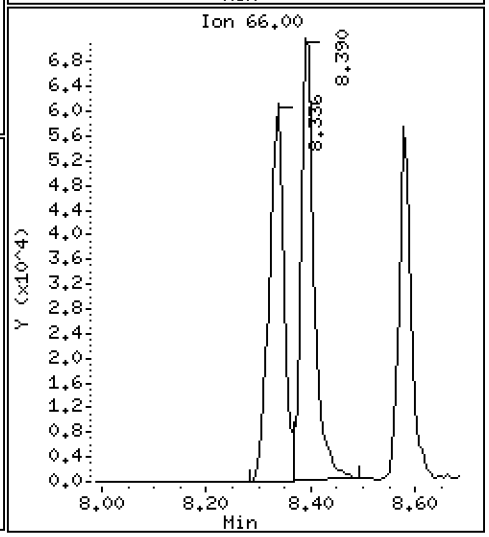












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

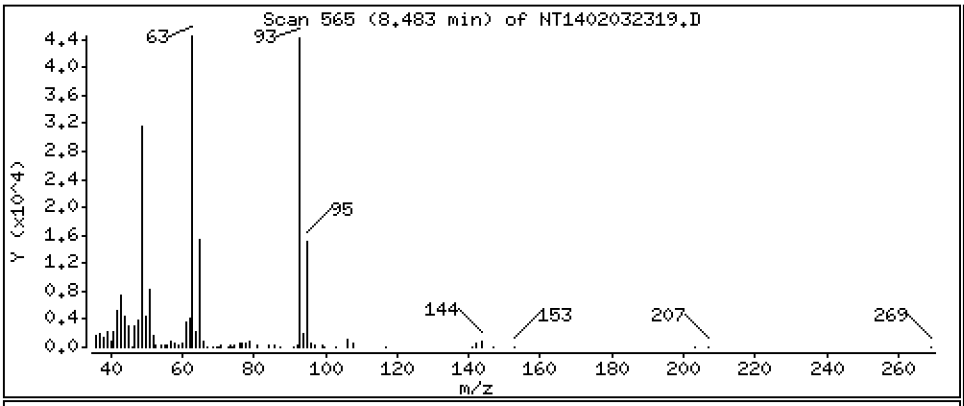
Operator: DSD

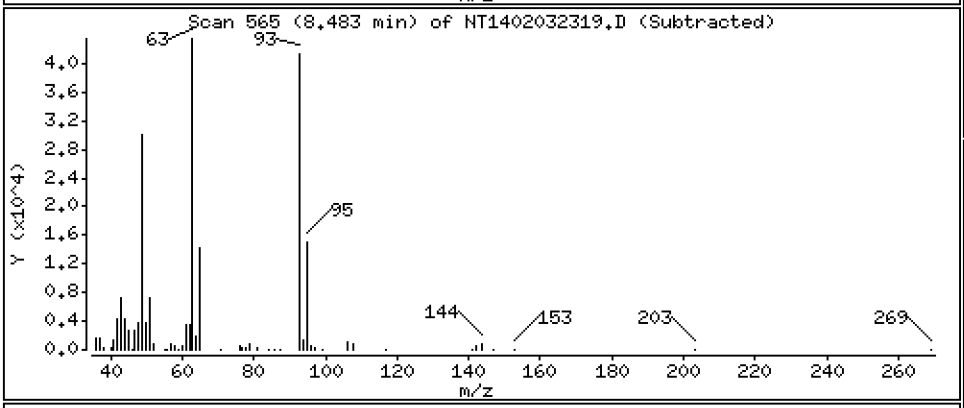
Column phase: ZB-5msi

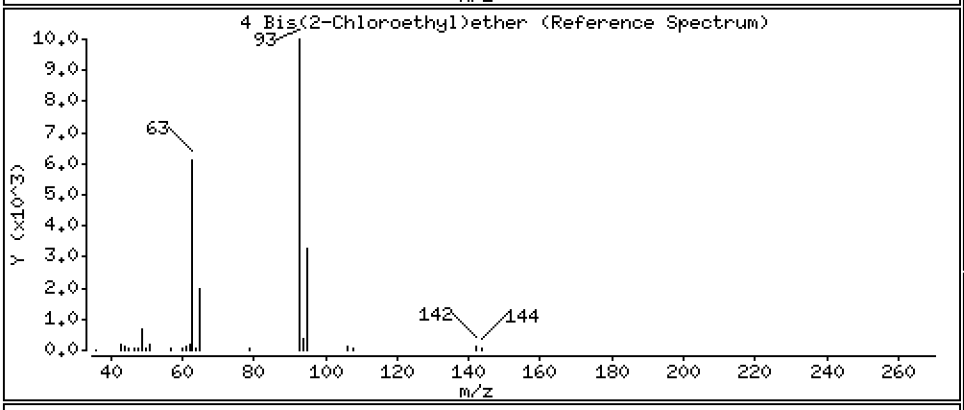
Column diameter: 0.25

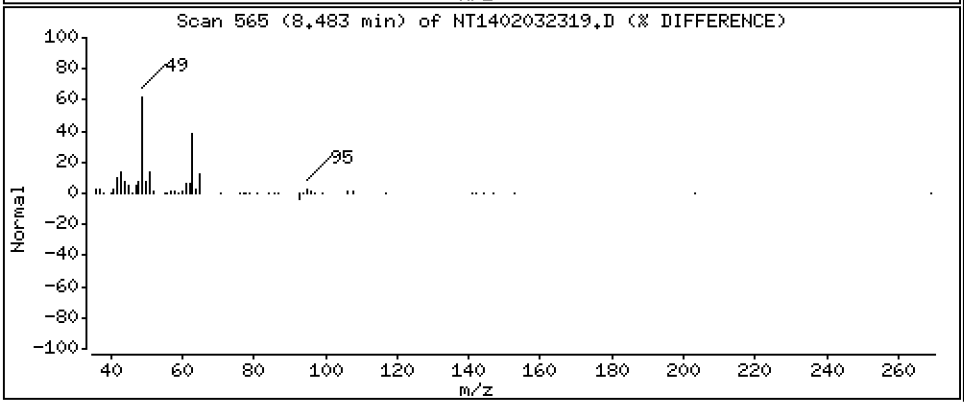
4 Bis(2-Chloroethyl)ether

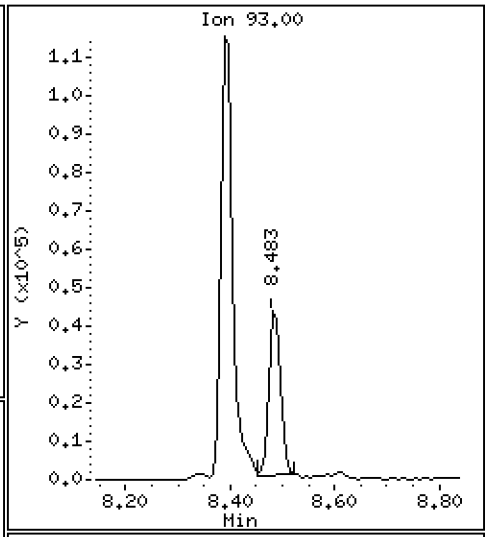
Concentration: 4.259 ug/mL

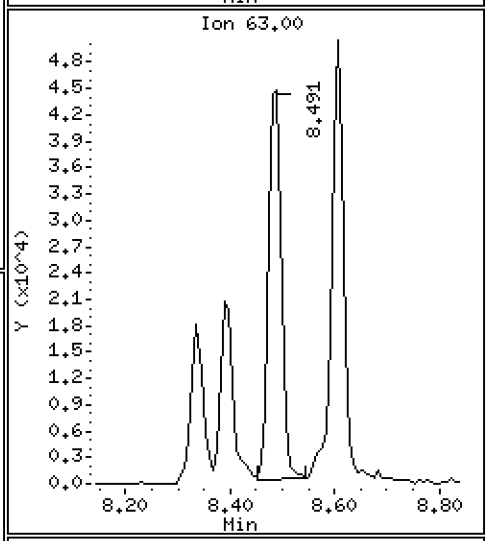


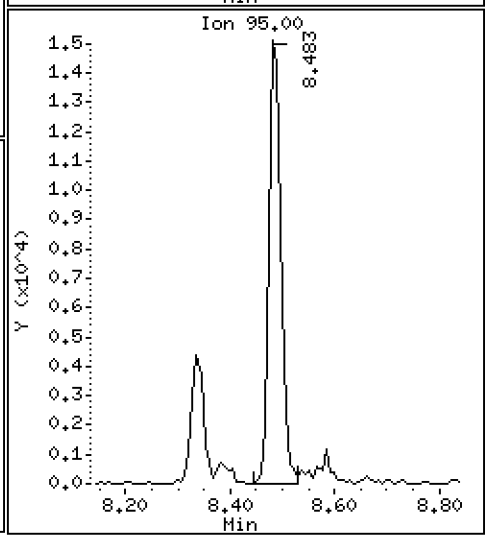












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

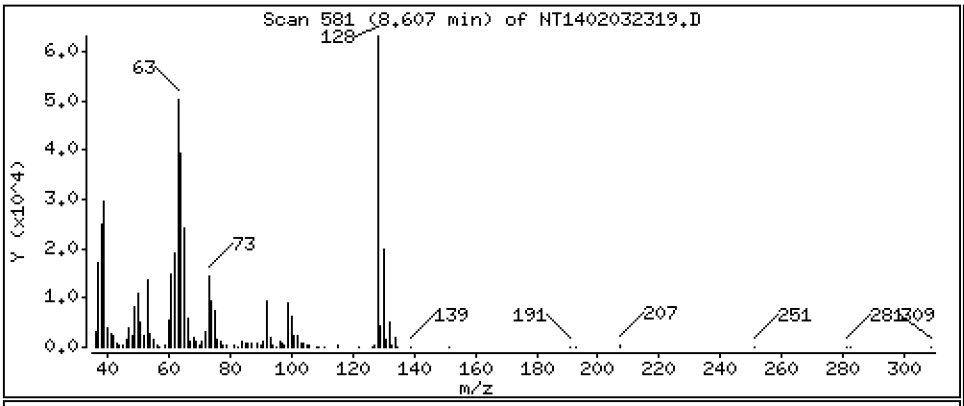
Operator: DSD

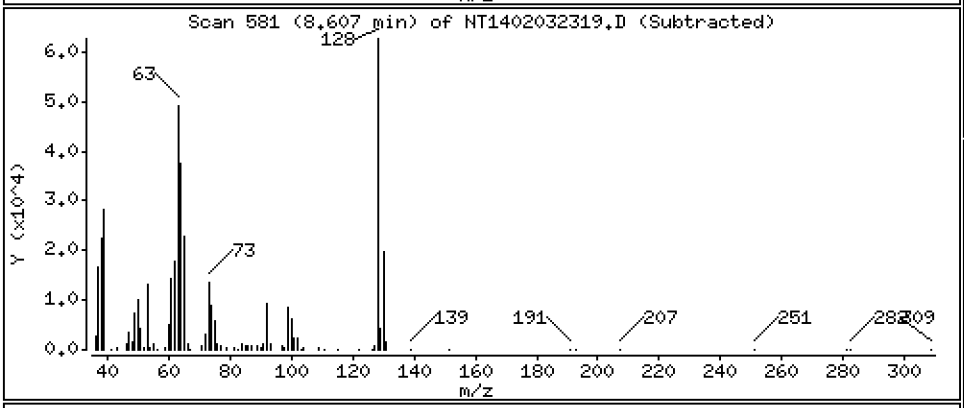
Column phase: ZB-5msi

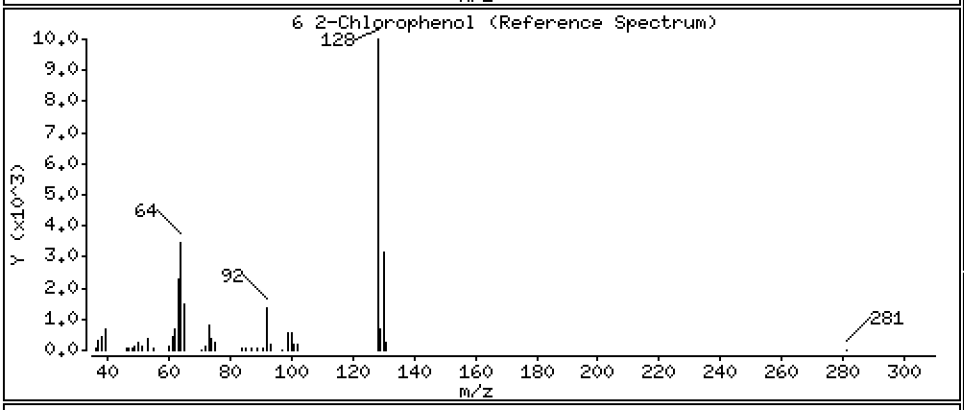
Column diameter: 0.25

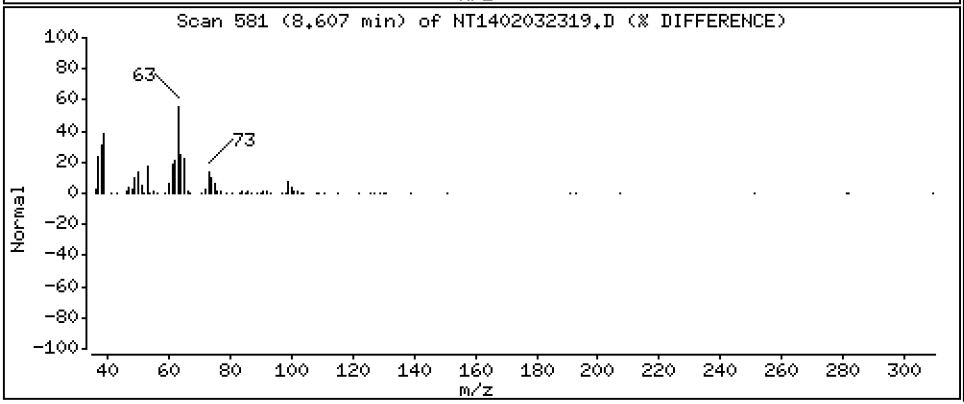
6 2-Chlorophenol

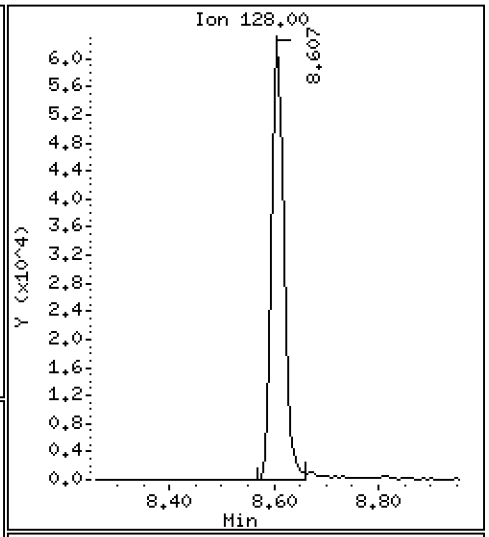
Concentration: 4.547 ug/mL

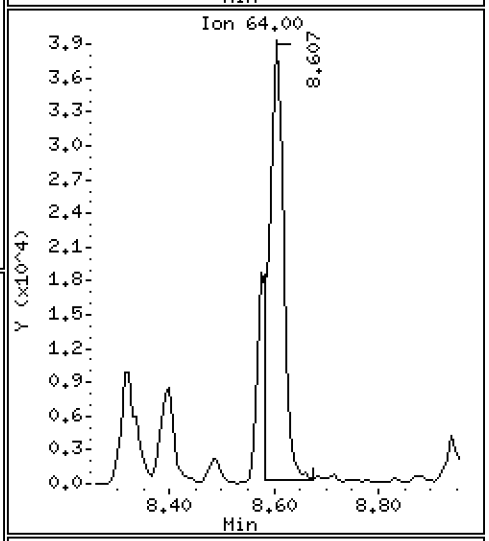


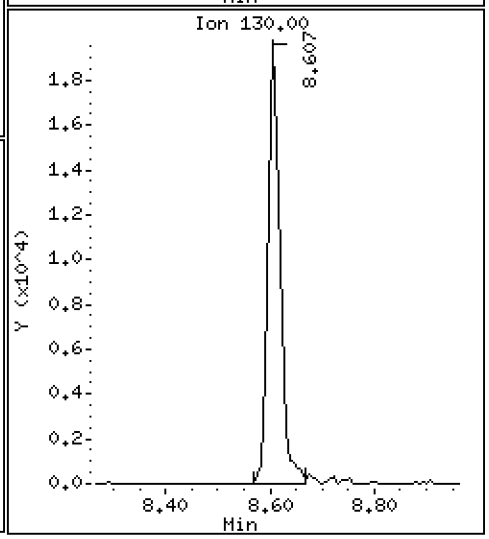












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

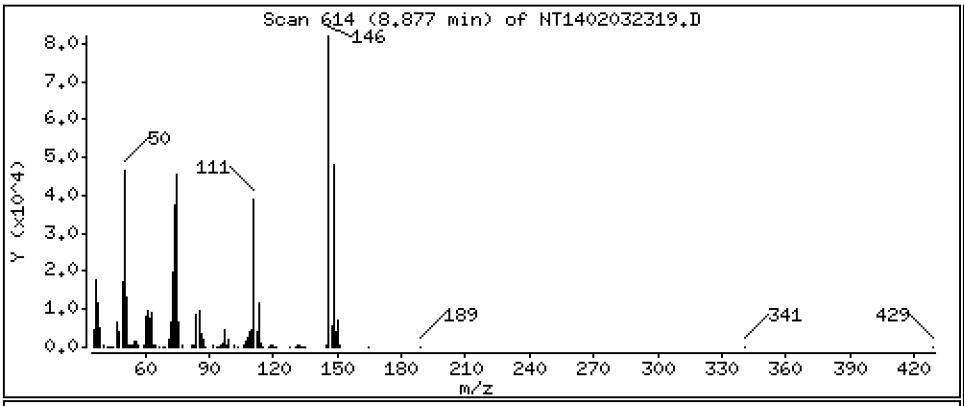
Operator: DSD

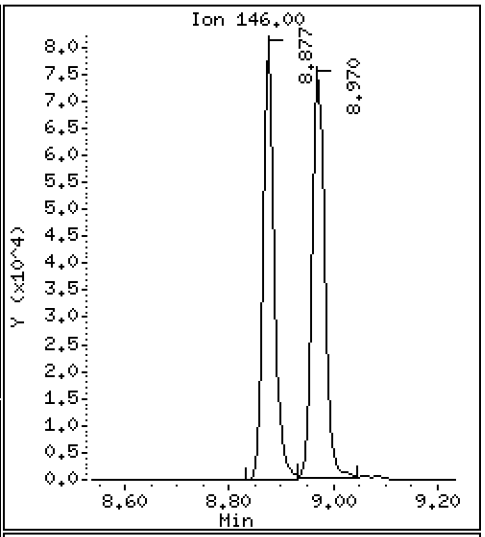
Column phase: ZB-5msi

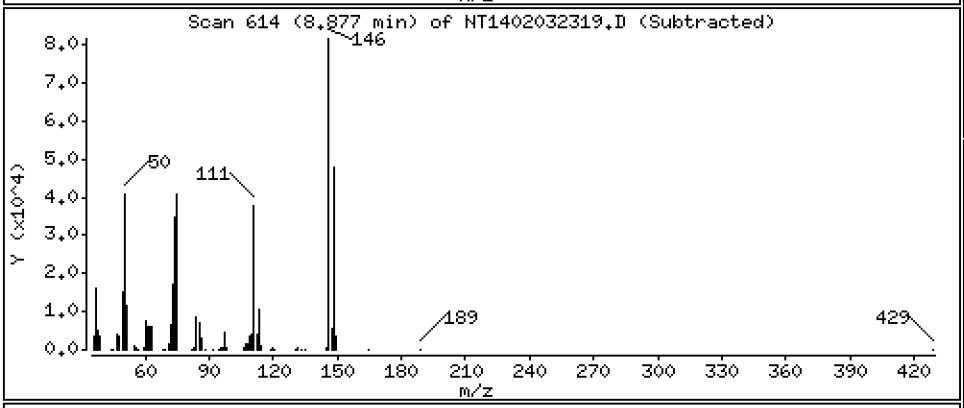
Column diameter: 0.25

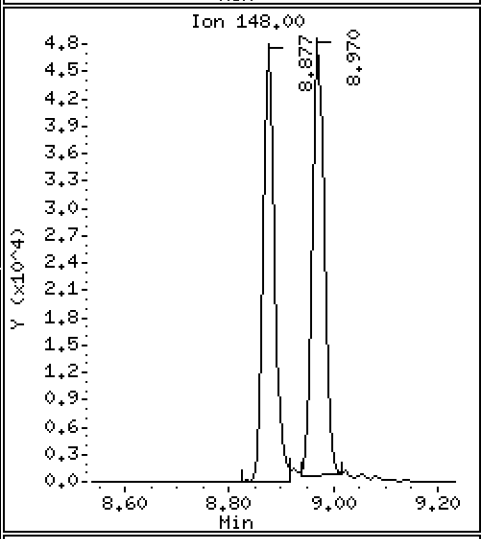
7 1,3-Dichlorobenzene

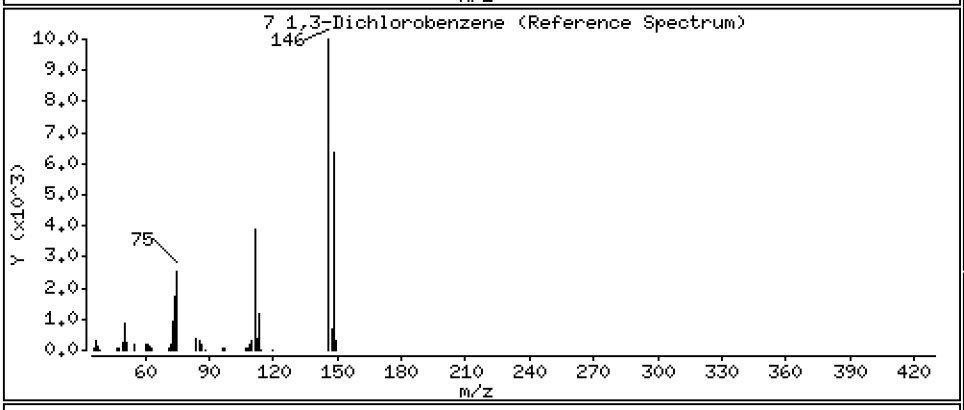
Concentration: 5.165 ug/mL

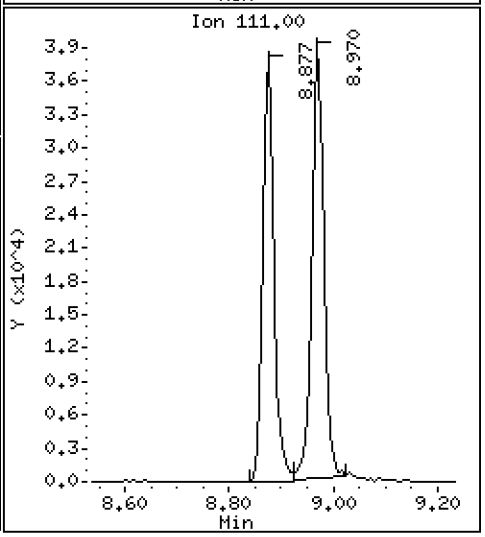


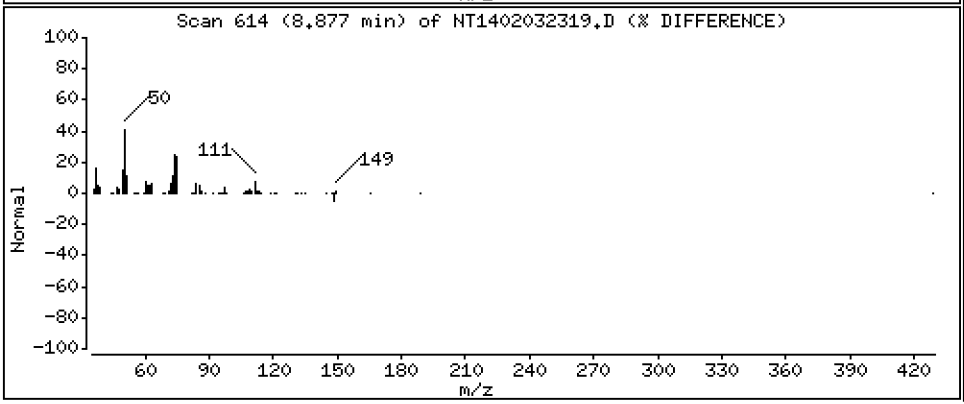












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

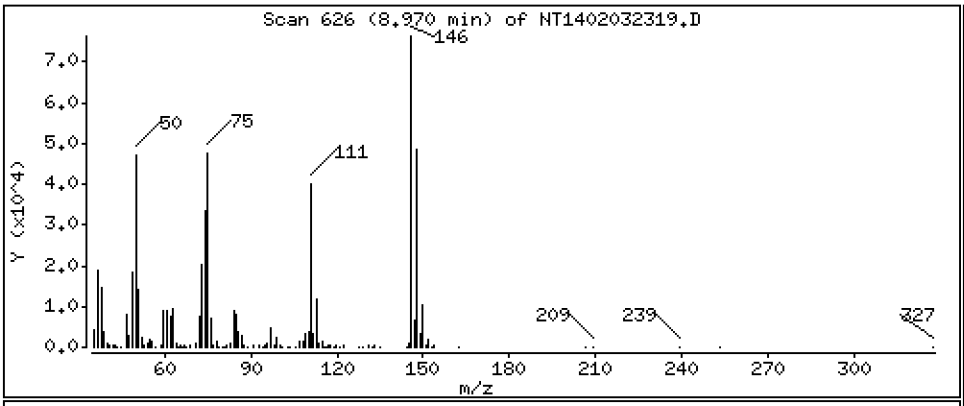
Operator: DSD

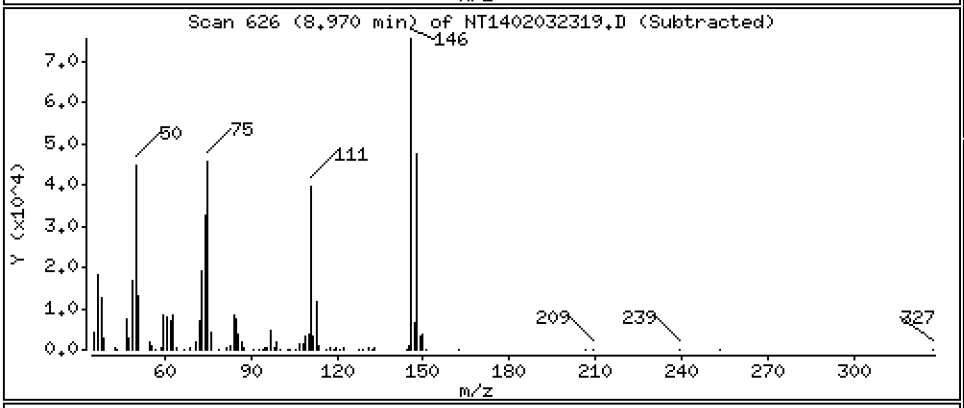
Column phase: ZB-5msi

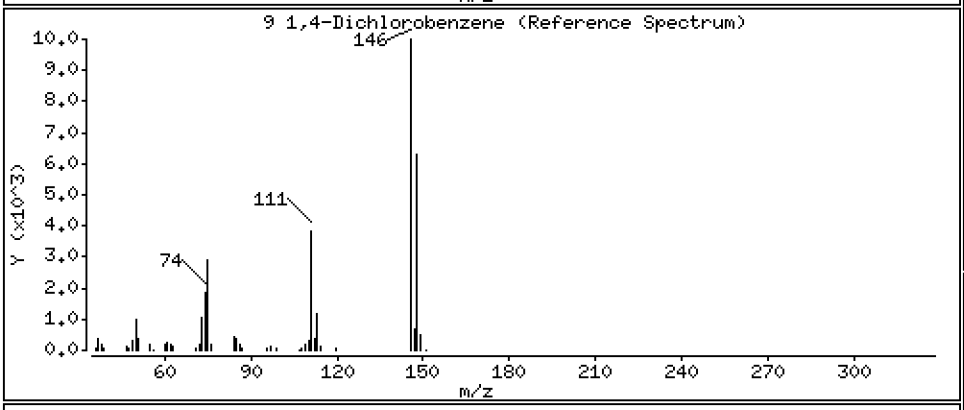
Column diameter: 0.25

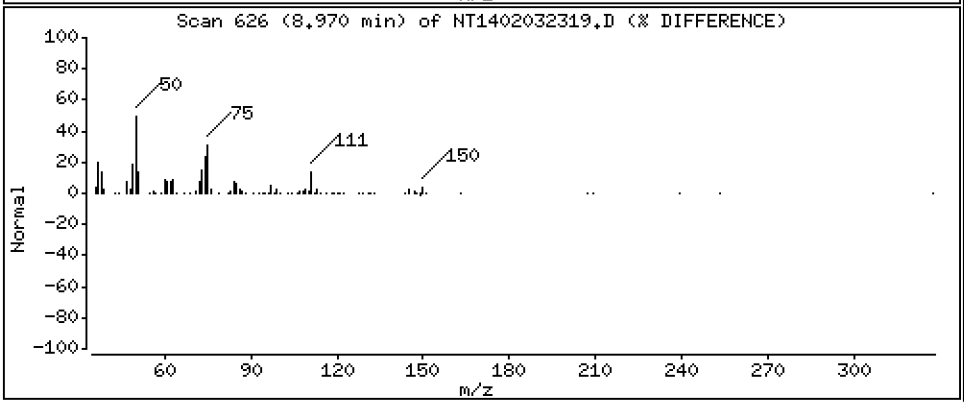
9 1,4-Dichlorobenzene

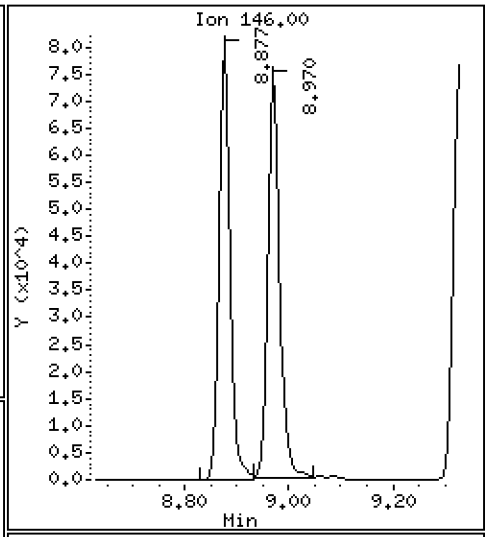
Concentration: 4.923 ug/mL

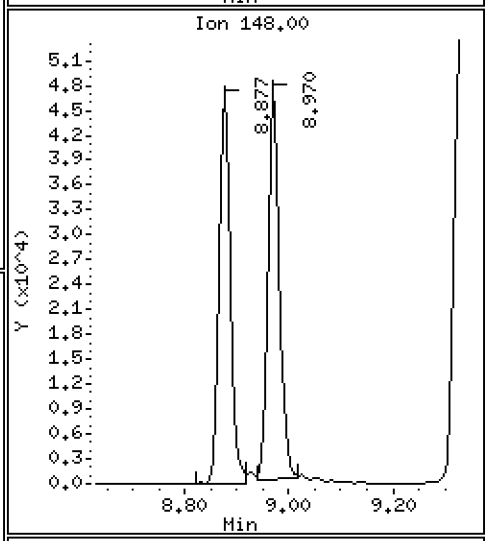


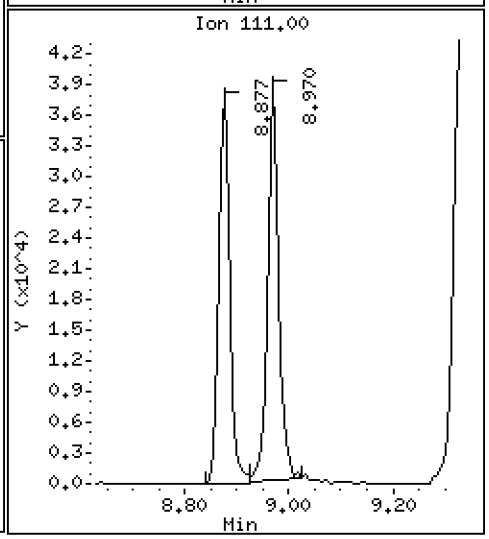












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

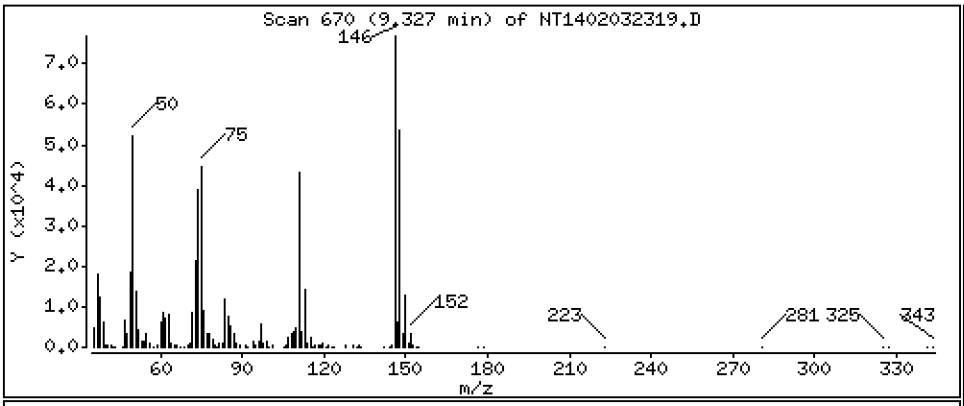
Operator: DSD

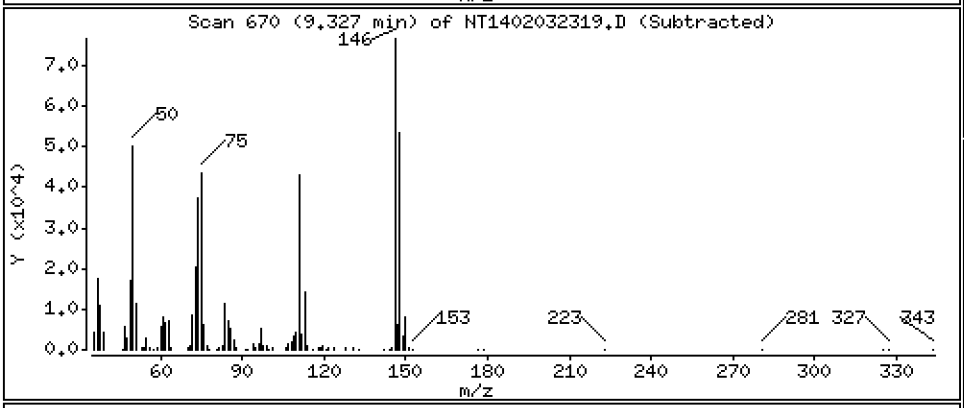
Column phase: ZB-5msi

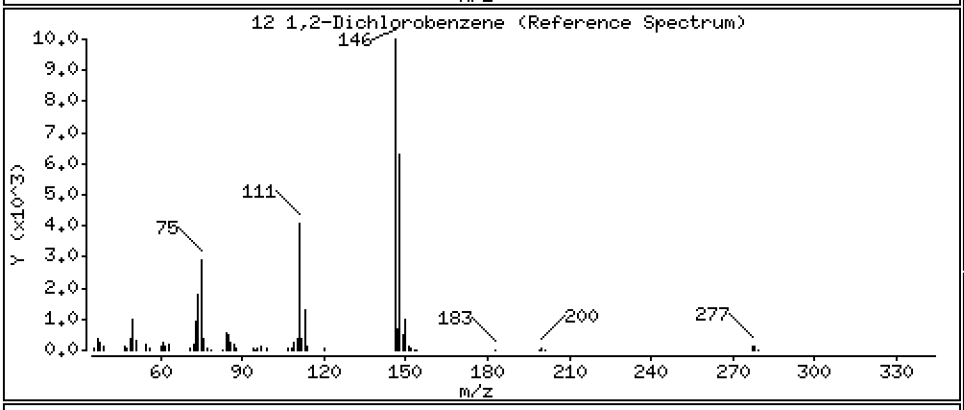
Column diameter: 0.25

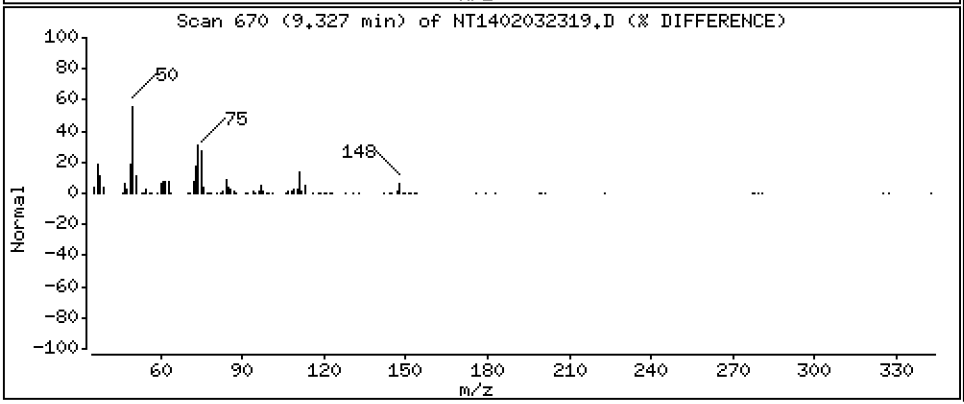
12 1,2-Dichlorobenzene

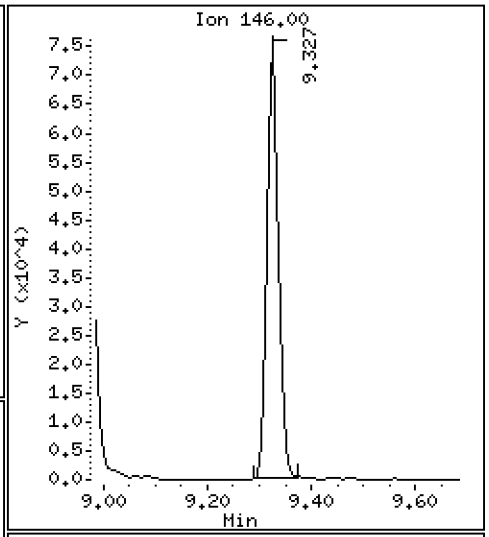
Concentration: 4.758 ug/mL

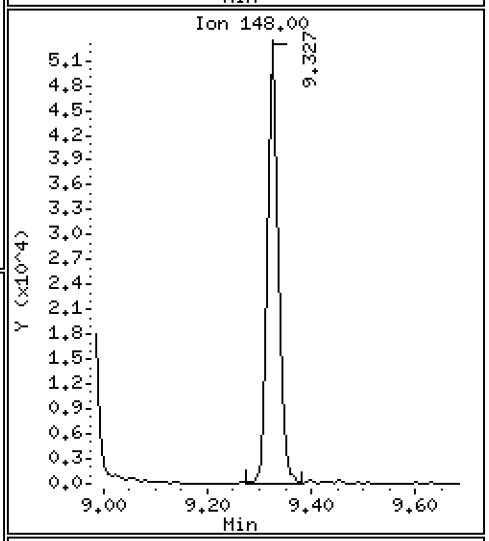


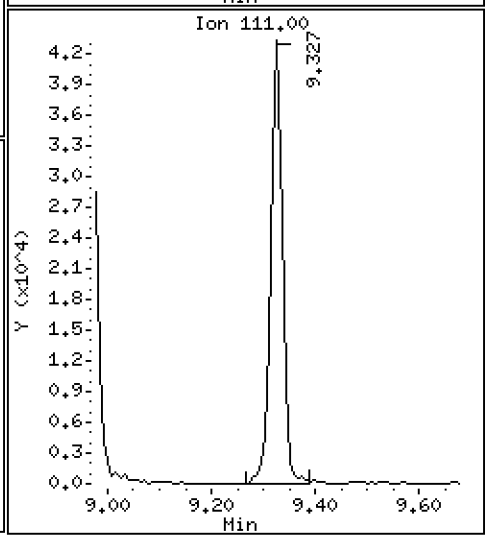












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

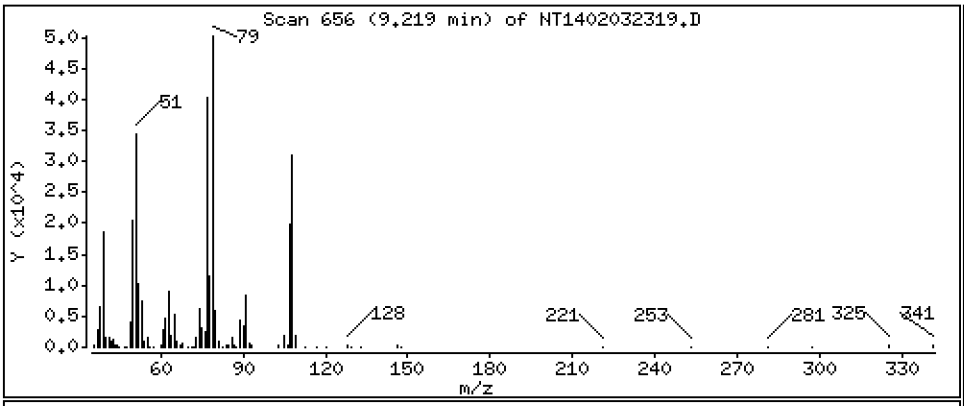
Operator: DSD

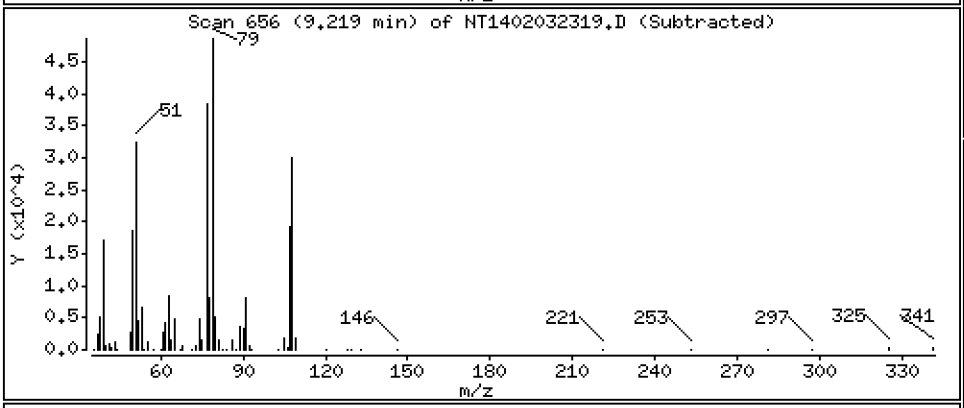
Column phase: ZB-5msi

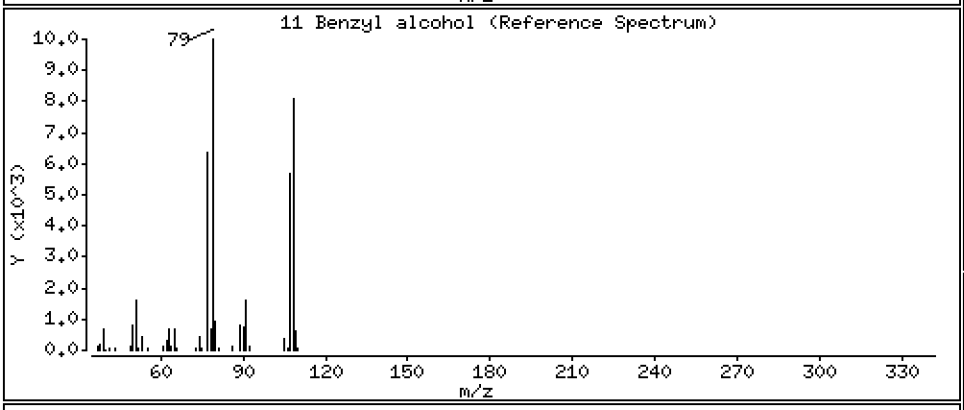
Column diameter: 0.25

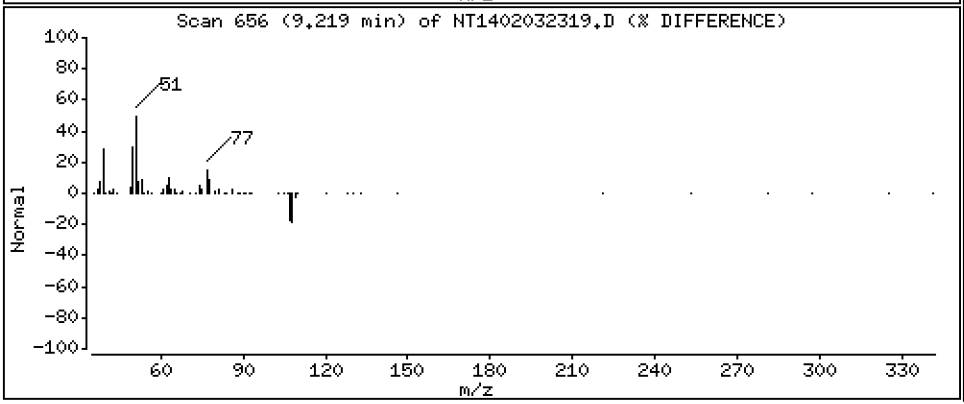
11 Benzyl alcohol

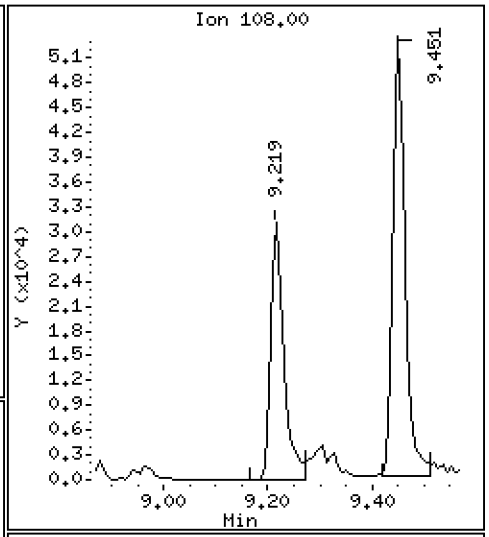
Concentration: 4.145 ug/mL

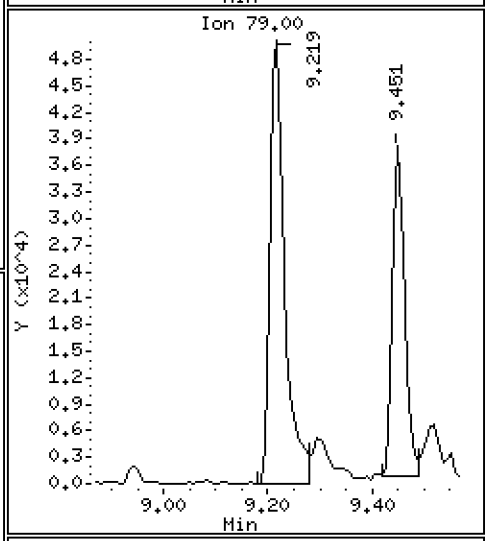


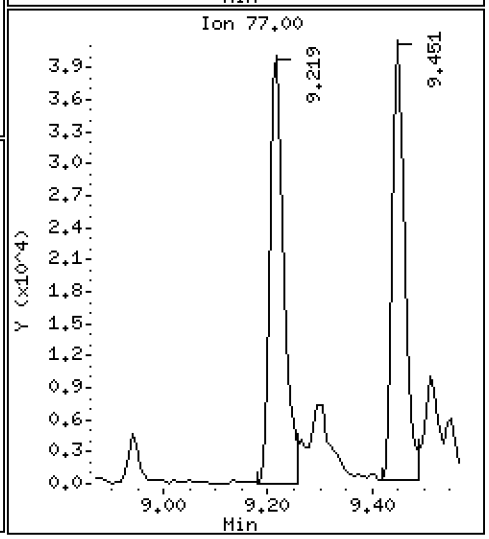












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

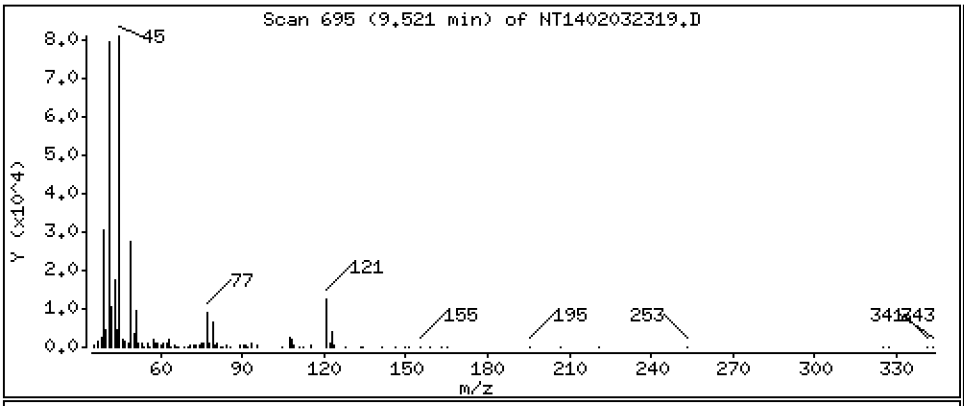
Operator: DSD

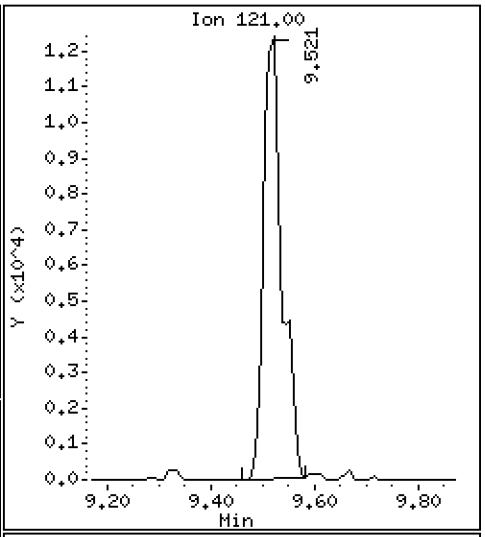
Column phase: ZB-5msi

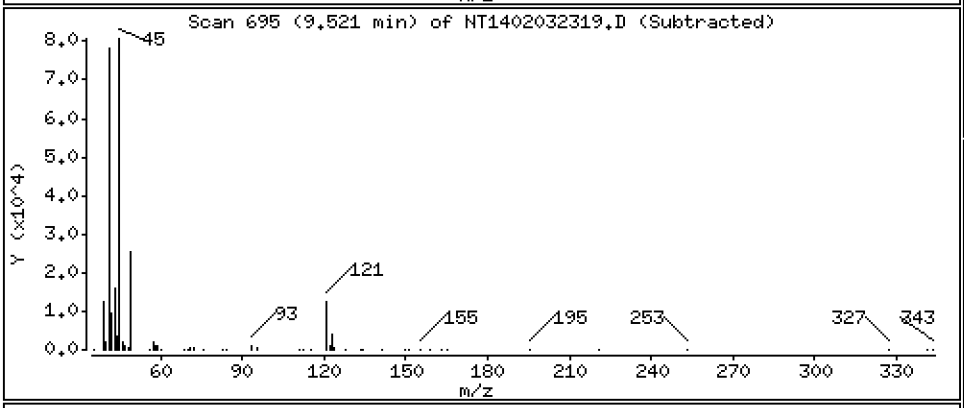
Column diameter: 0.25

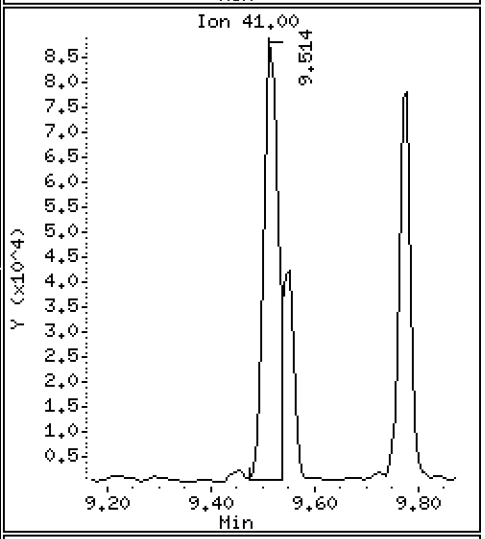
14 2,2'-oxybis(1-Chloropropane)

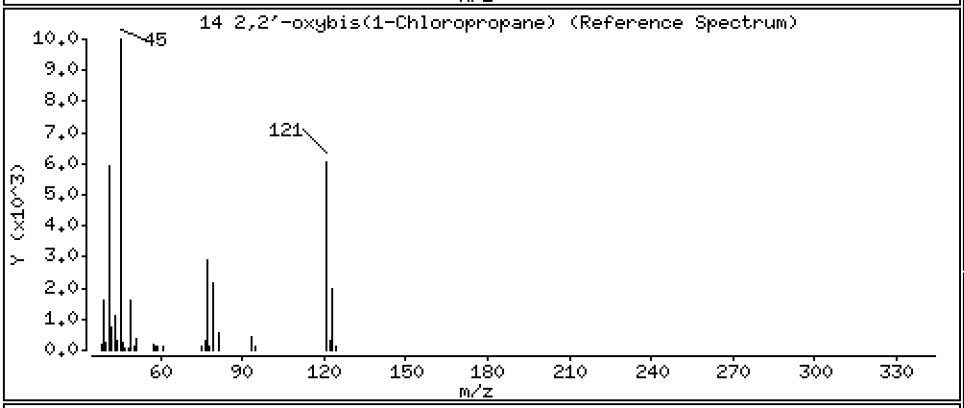
Concentration: 4.493 ug/mL

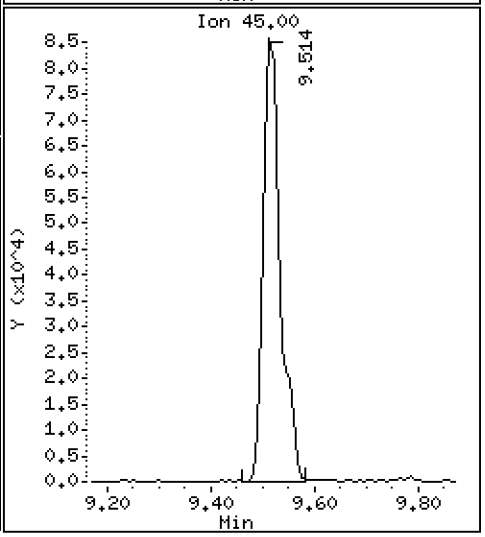


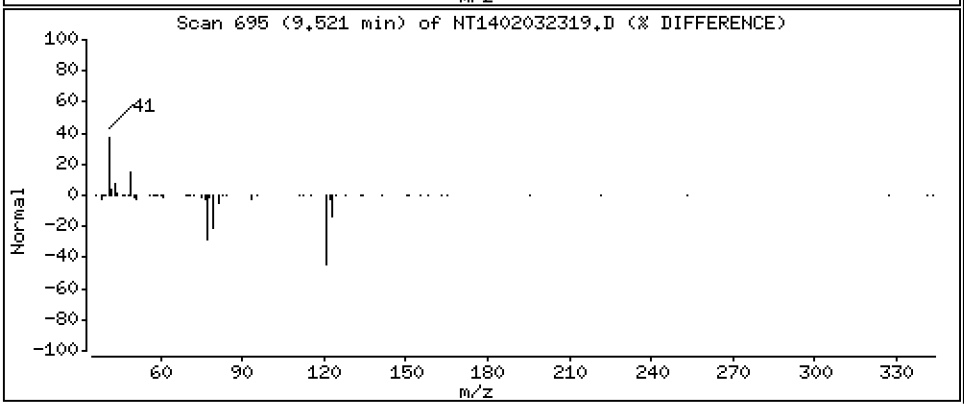












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

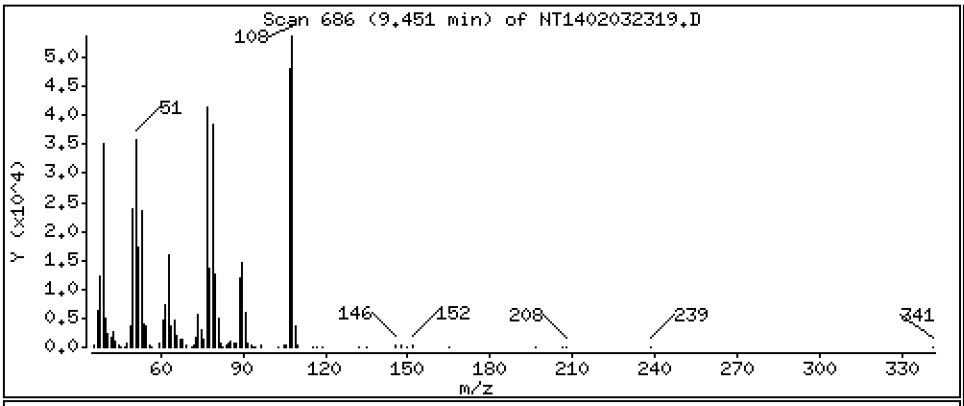
Operator: DSD

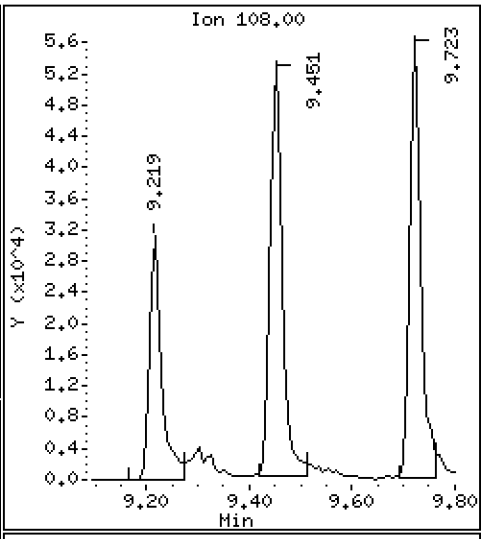
Column phase: ZB-5msi

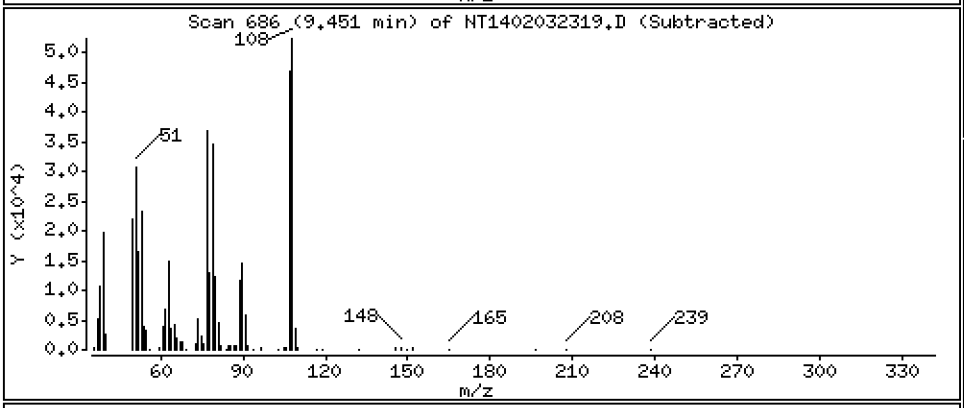
Column diameter: 0.25

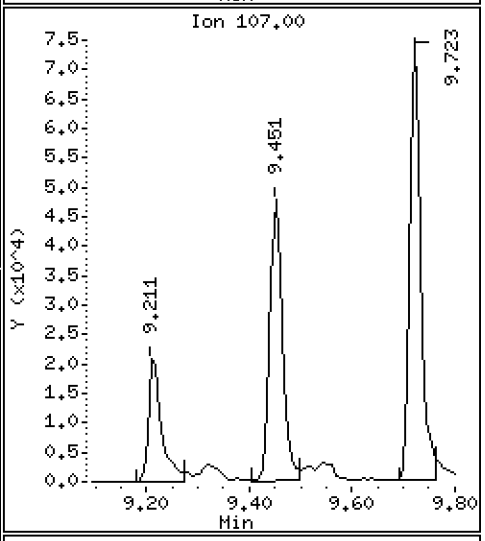
13 2-Methylphenol

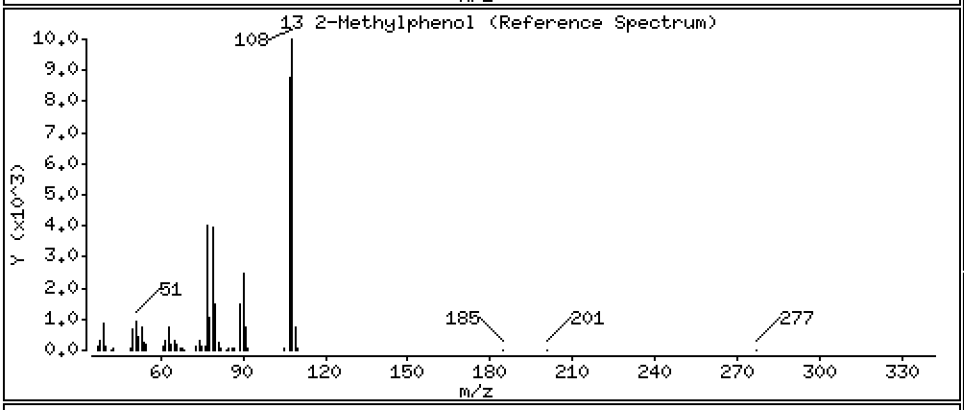
Concentration: 4.139 ug/mL

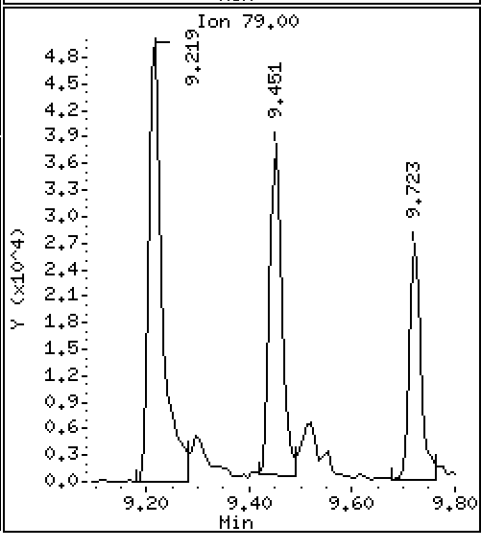


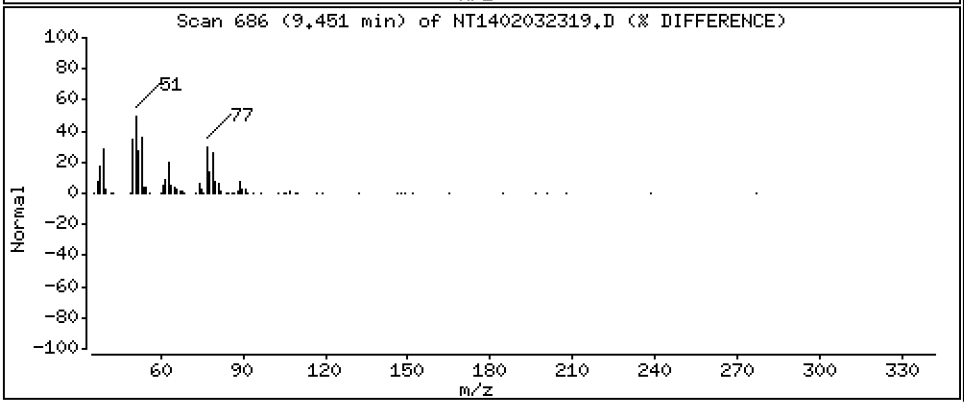












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

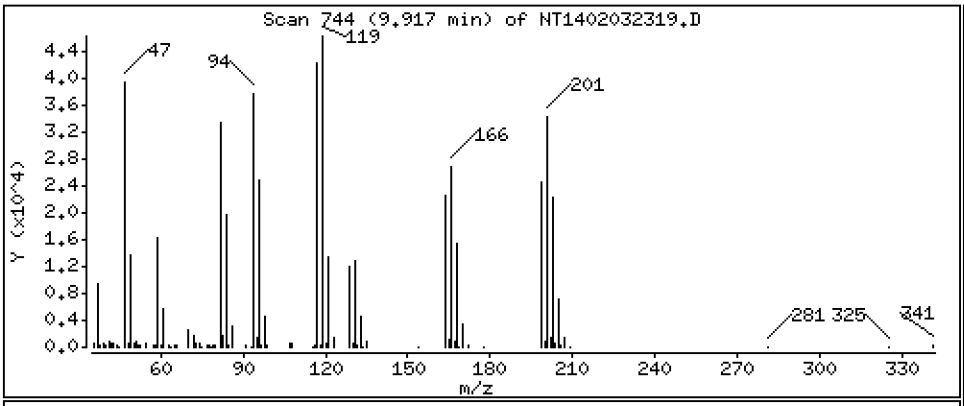
Operator: DSD

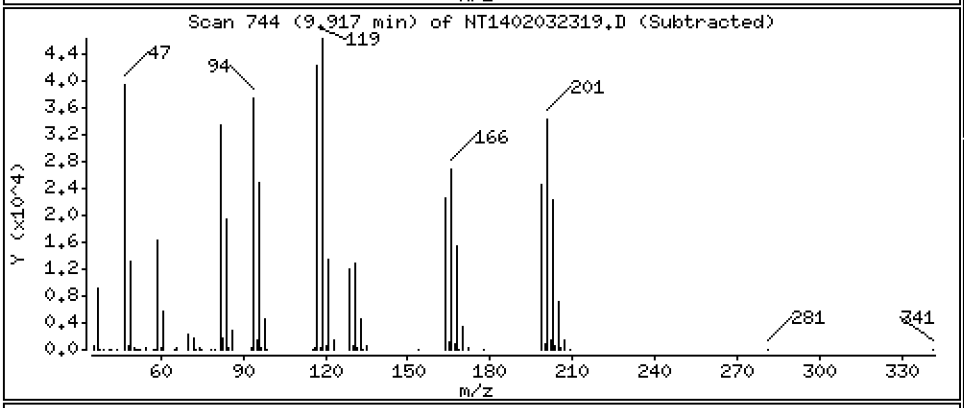
Column phase: ZB-5msi

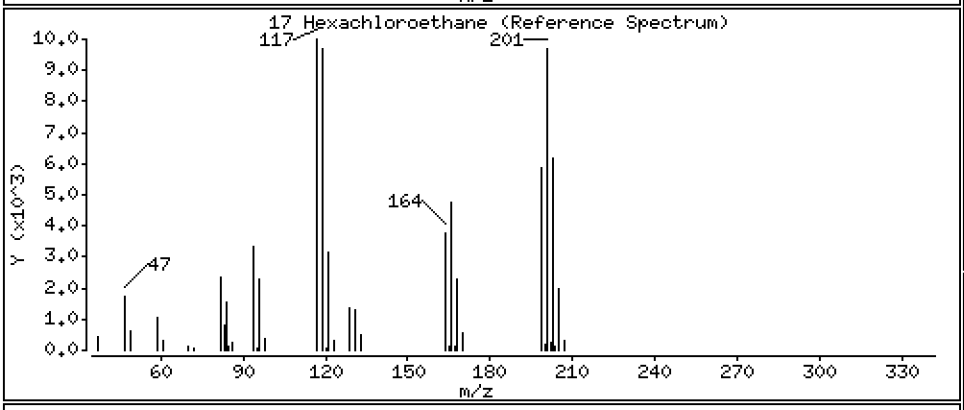
Column diameter: 0.25

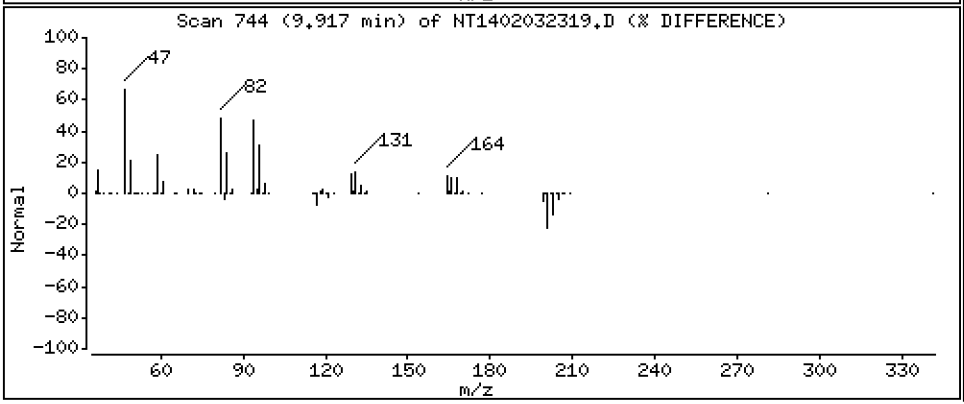
17 Hexachloroethane

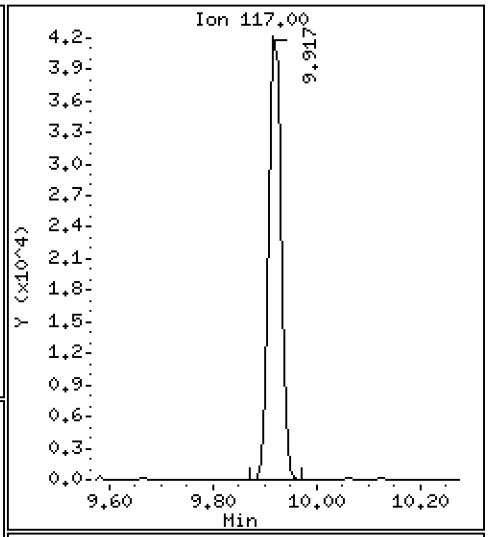
Concentration: 4.523 ug/mL

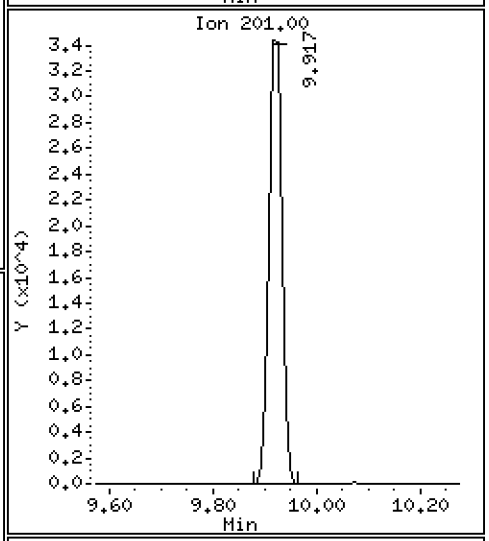


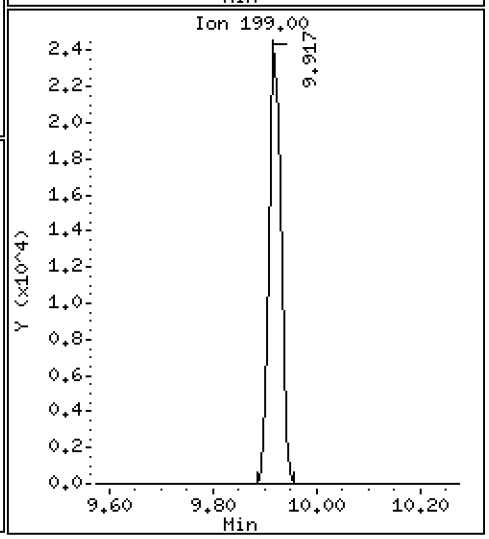












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

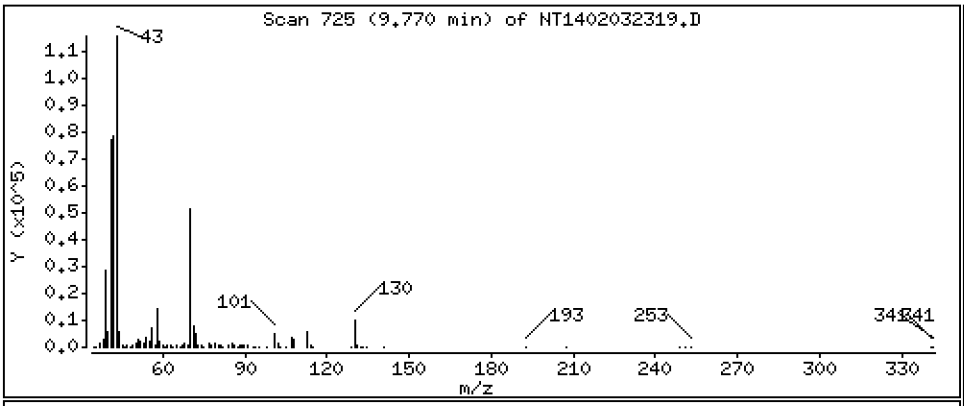
Operator: DSD

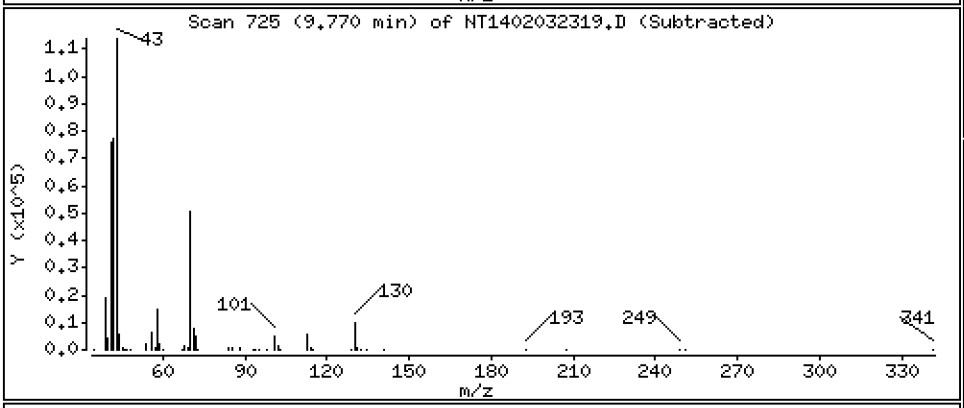
Column phase: ZB-5msi

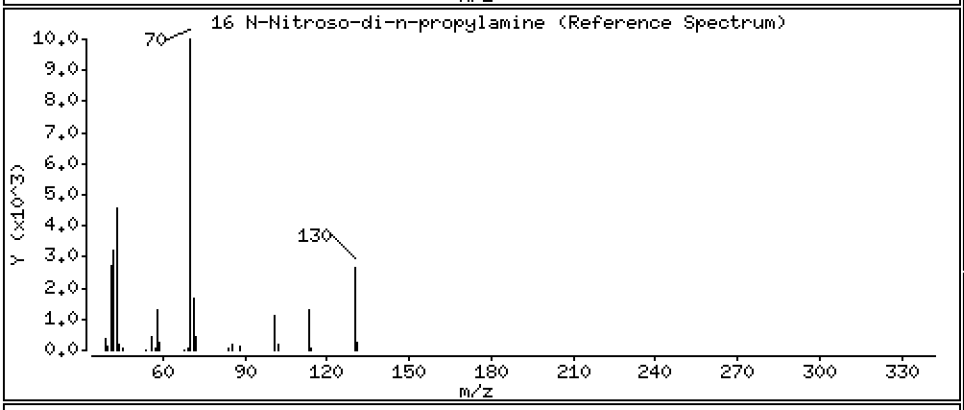
Column diameter: 0.25

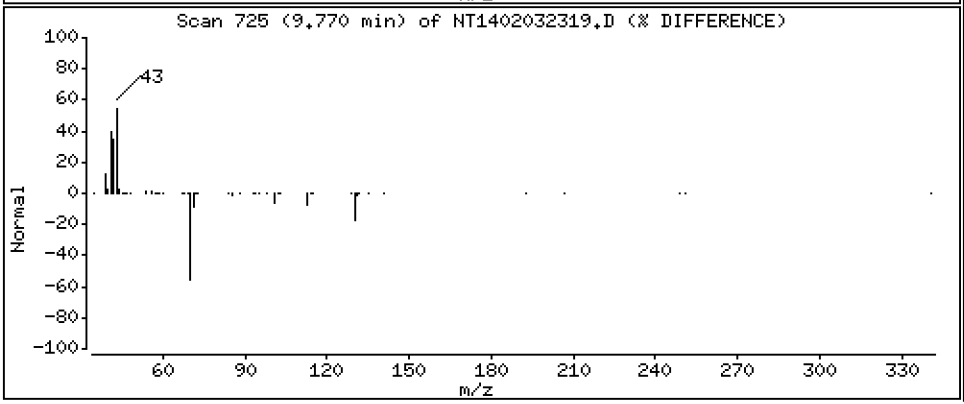
16 N-Nitroso-di-n-propylamine

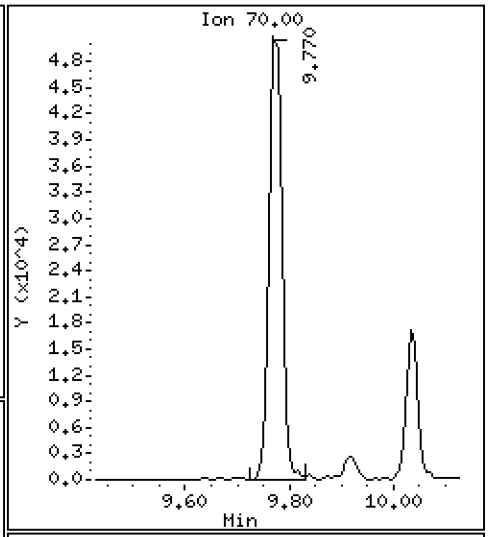
Concentration: 4.842 ug/mL

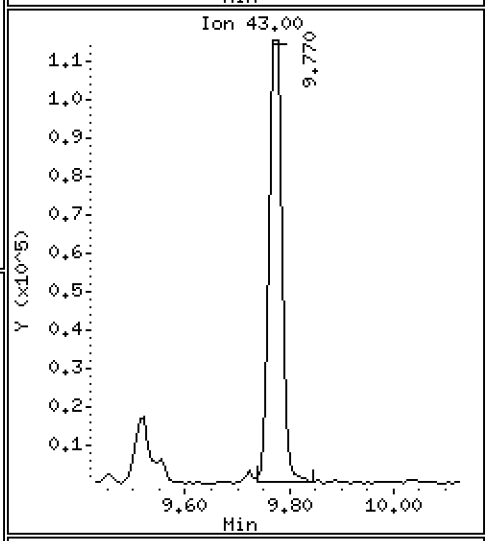


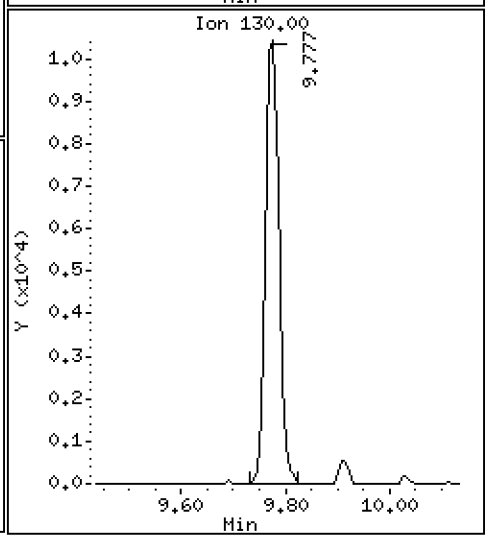












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

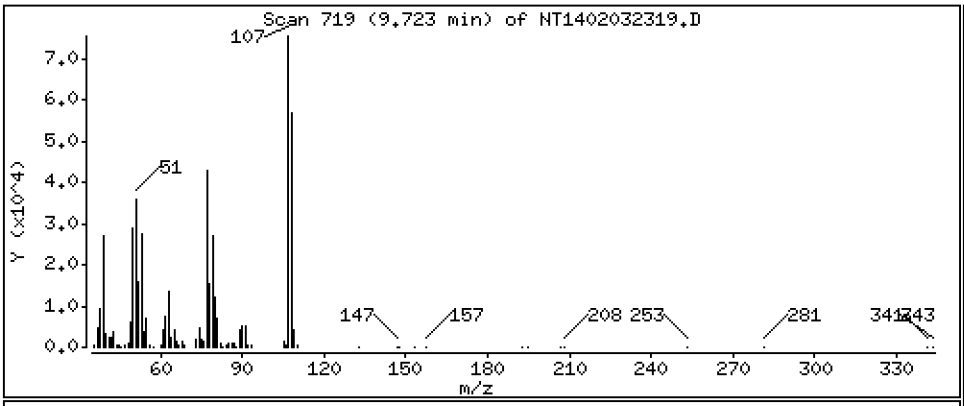
Operator: DSD

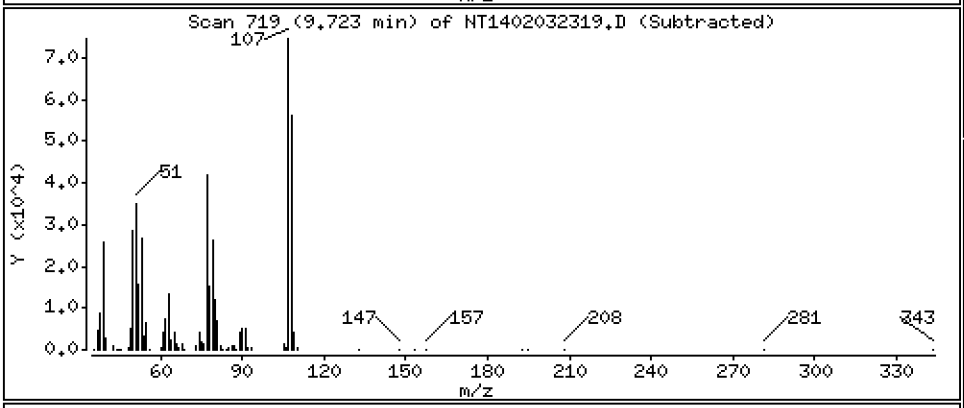
Column phase: ZB-5msi

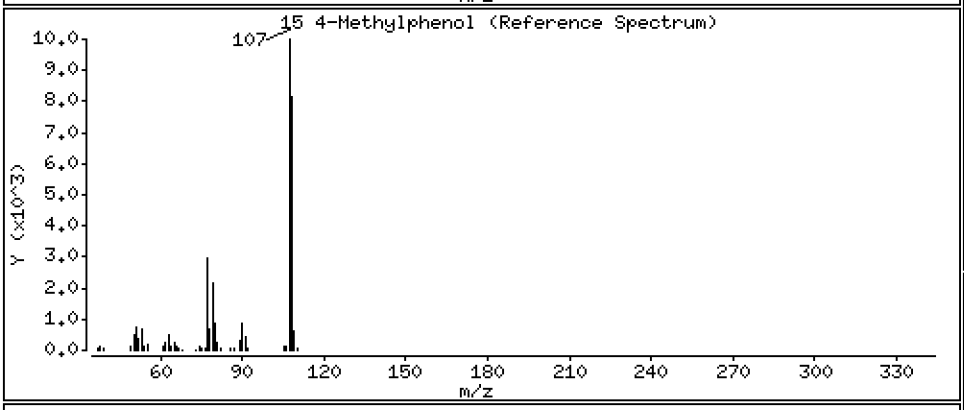
Column diameter: 0.25

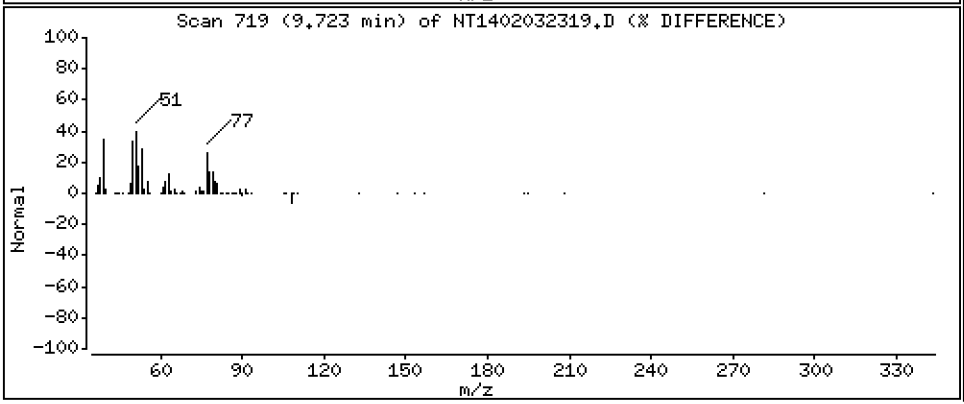
15 4-Methylphenol

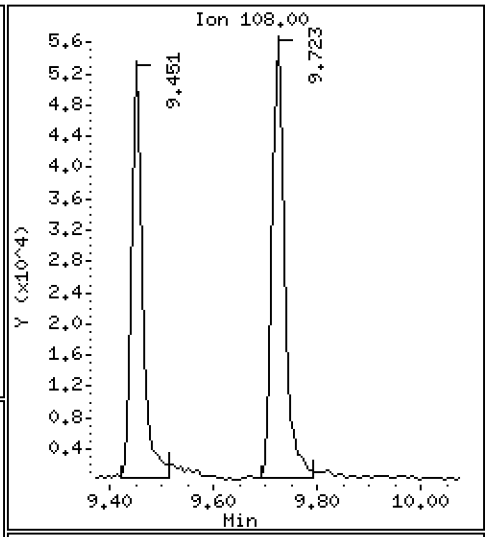
Concentration: 4.030 ug/mL

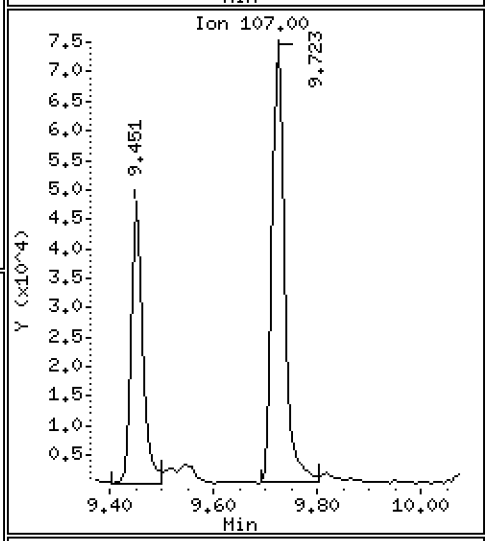


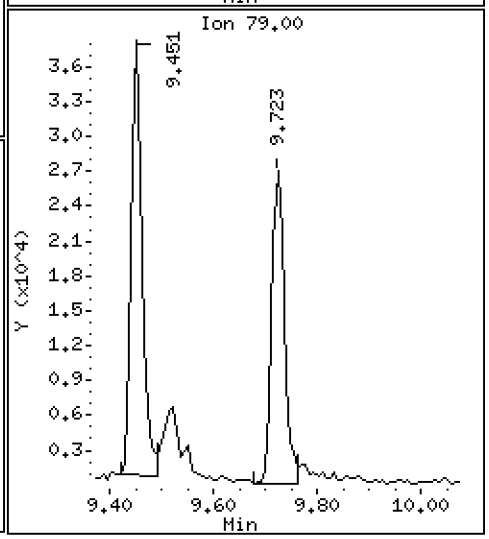












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

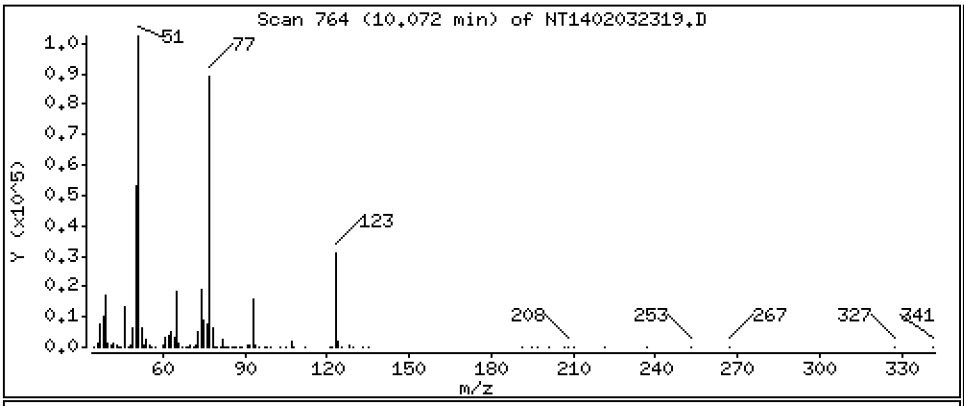
Operator: DSD

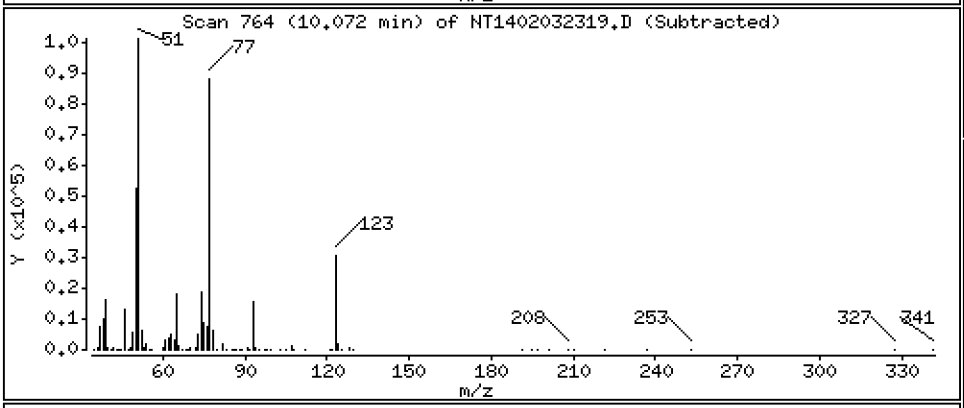
Column phase: ZB-5msi

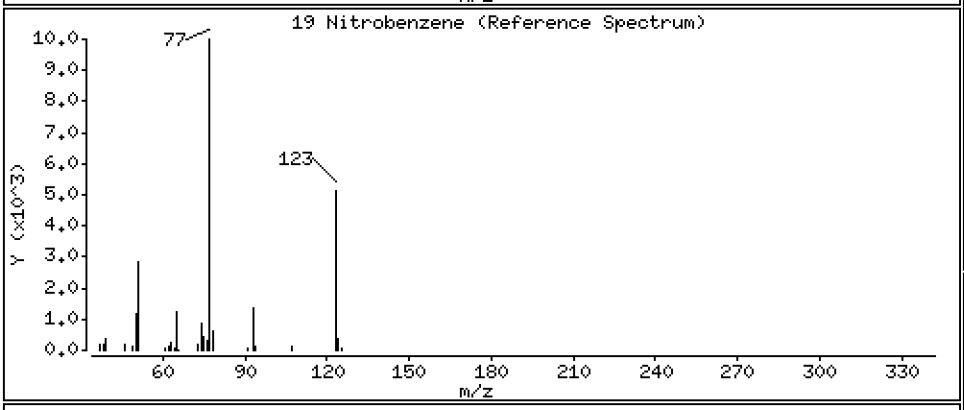
Column diameter: 0.25

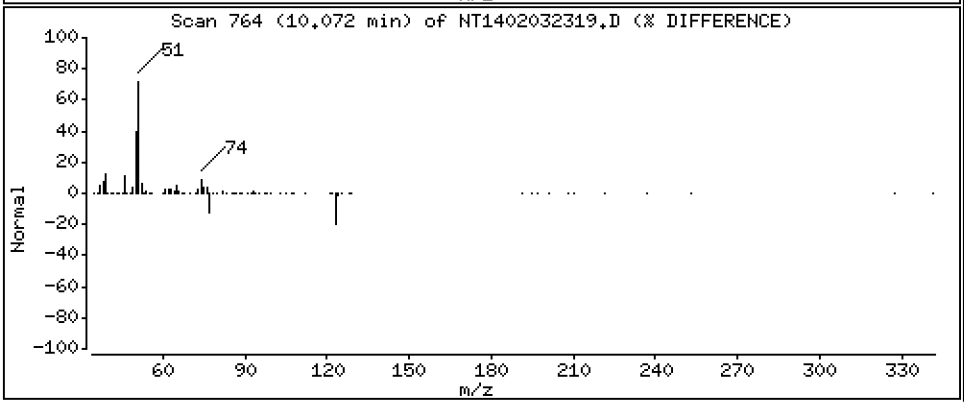
19 Nitrobenzene

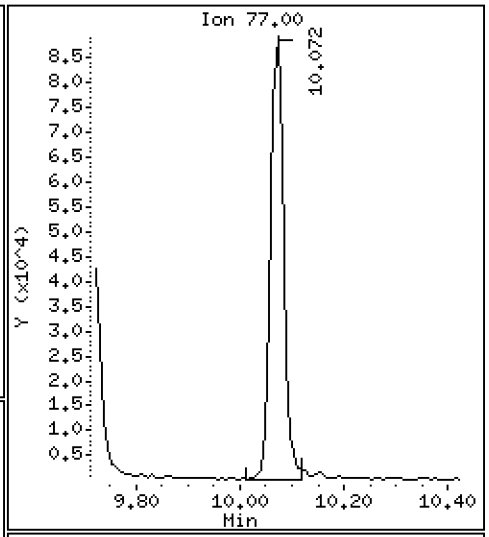
Concentration: 4.339 ug/mL

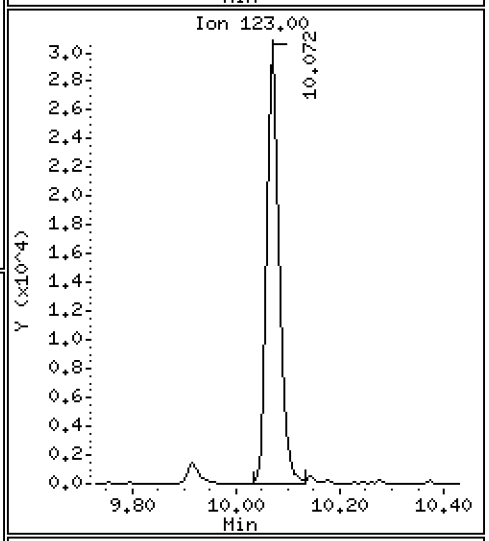


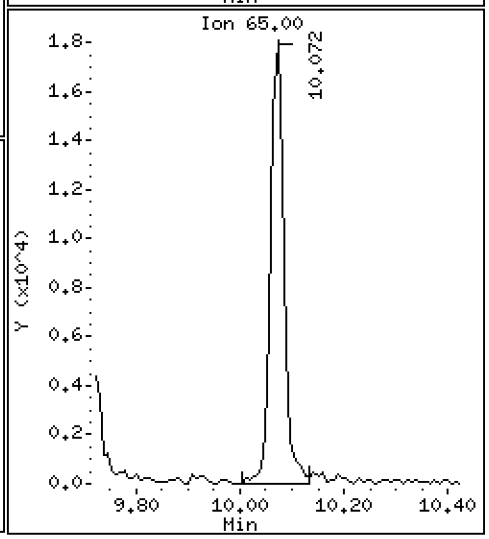












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

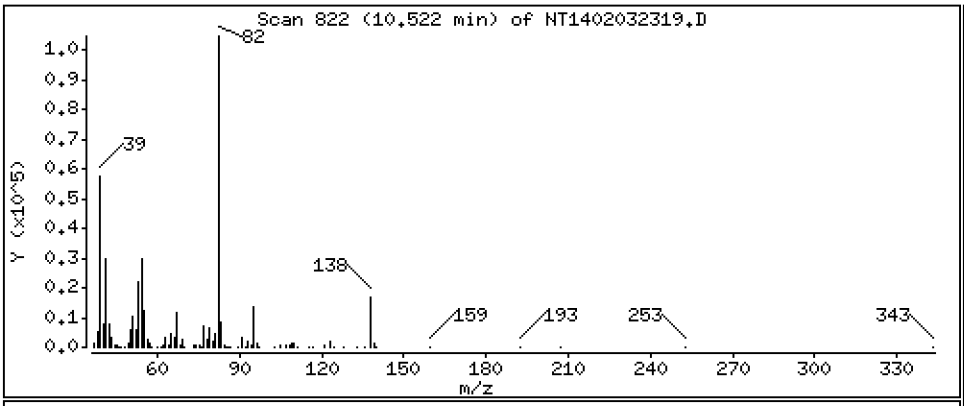
Operator: DSD

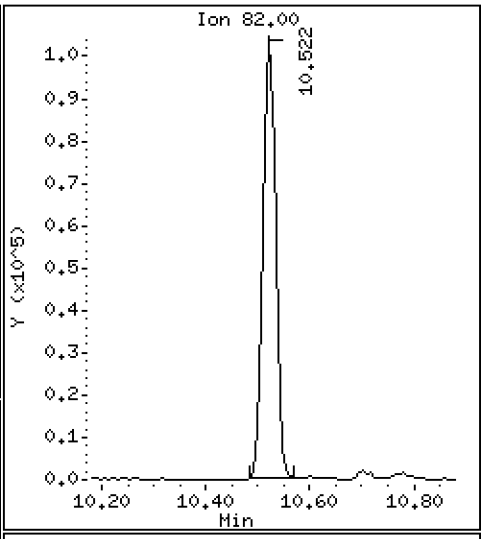
Column phase: ZB-5msi

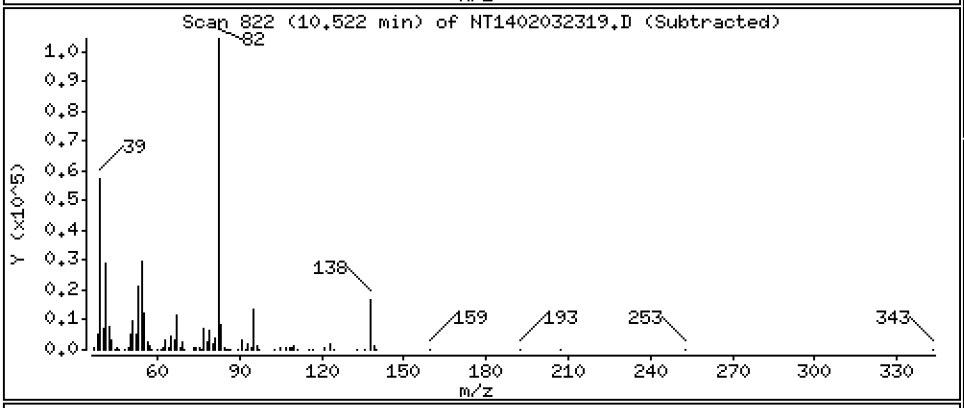
Column diameter: 0.25

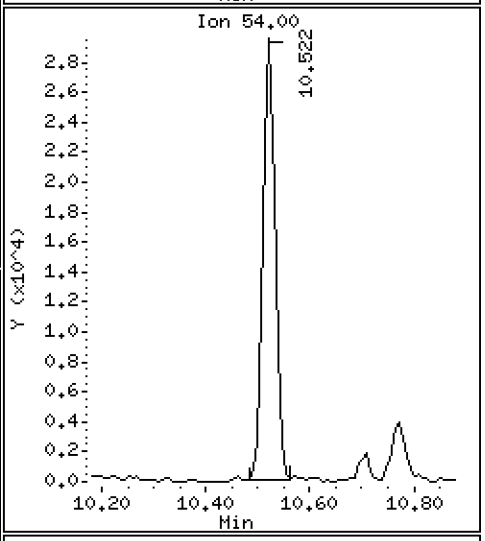
20 Isophorone

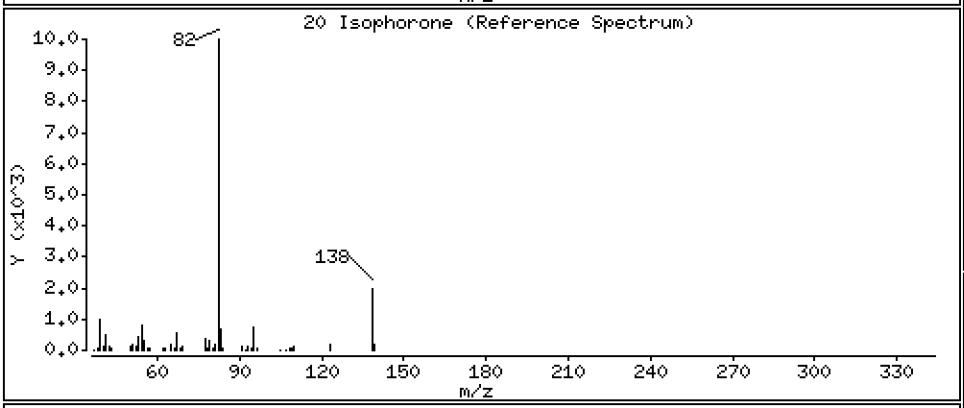
Concentration: 4.298 ug/mL

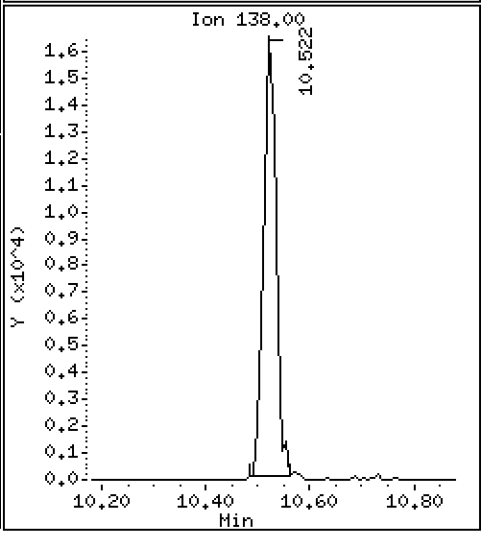


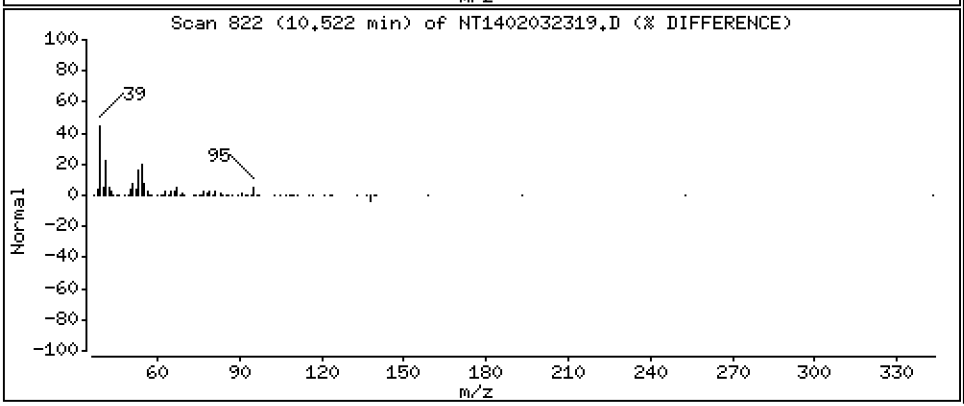












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

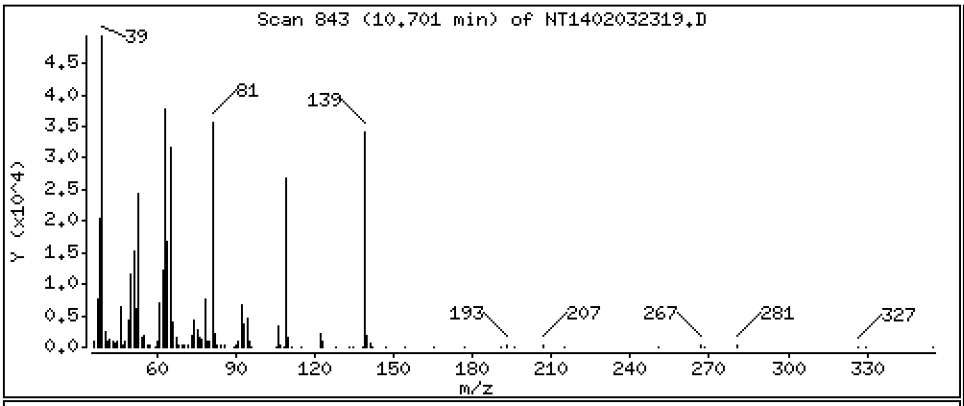
Operator: DSD

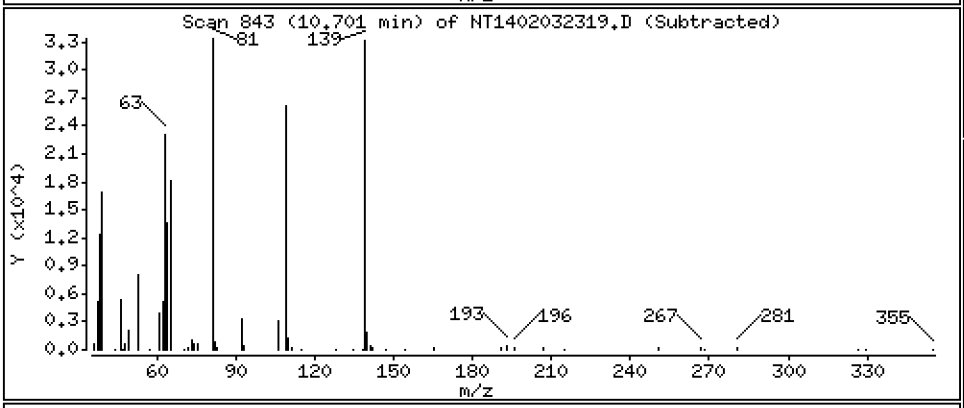
Column phase: ZB-5msi

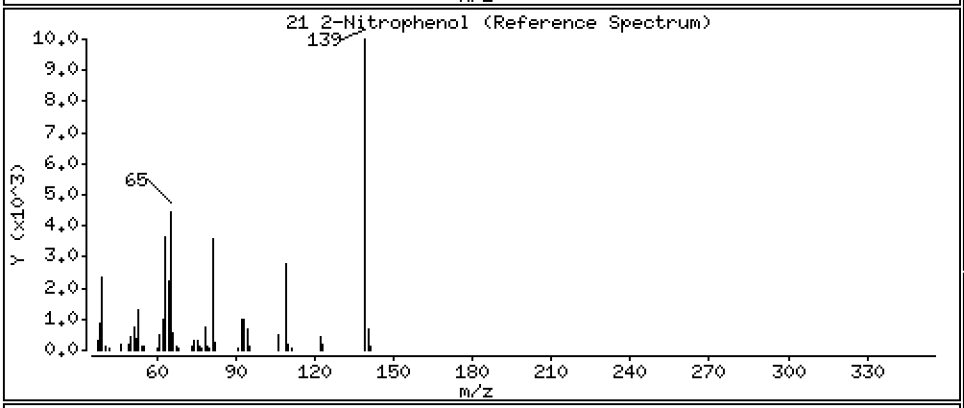
Column diameter: 0.25

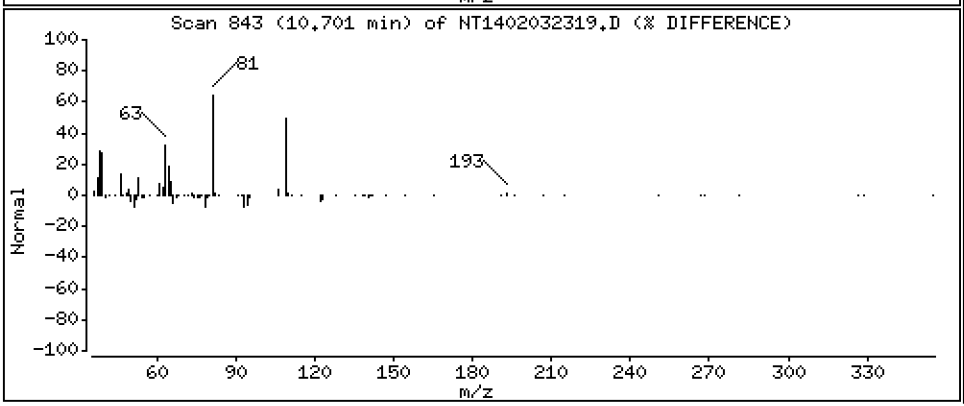
21 2-Nitrophenol

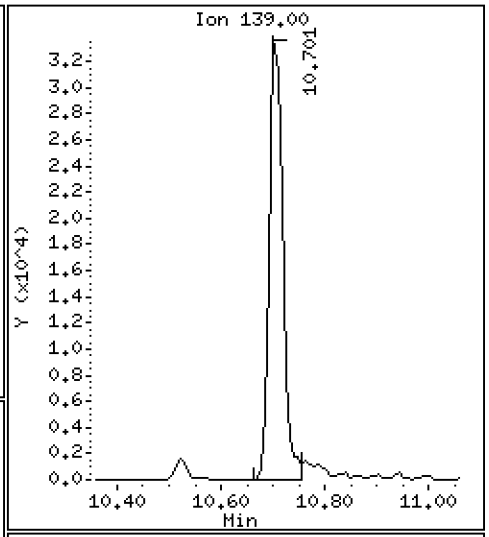
Concentration: 4.393 ug/mL

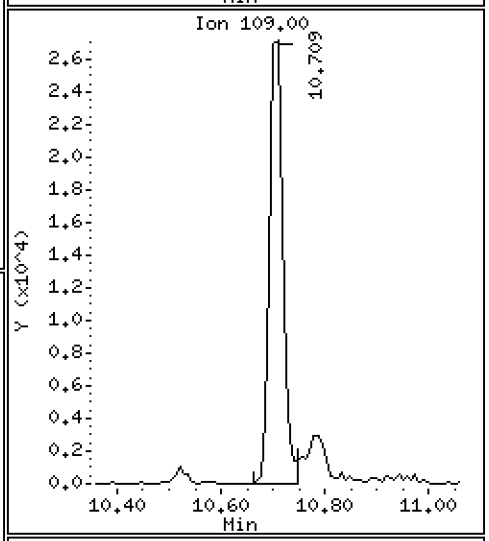


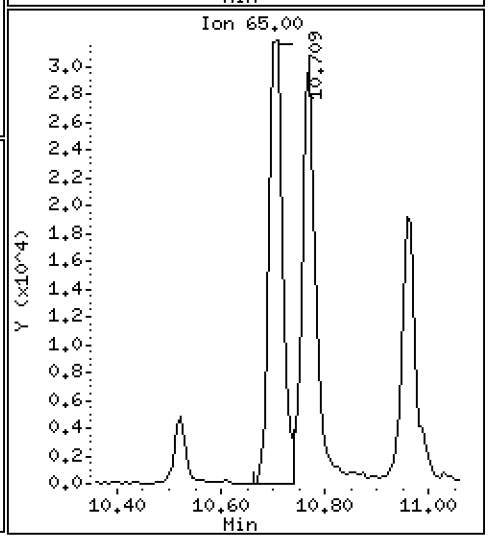












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

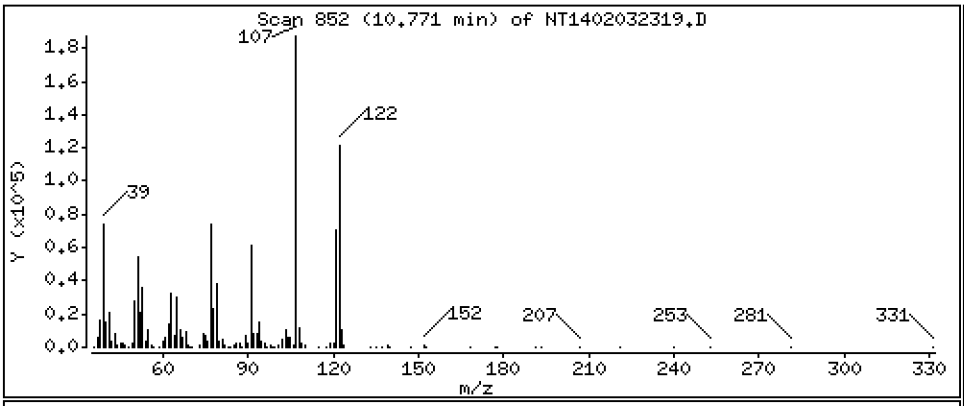
Operator: DSD

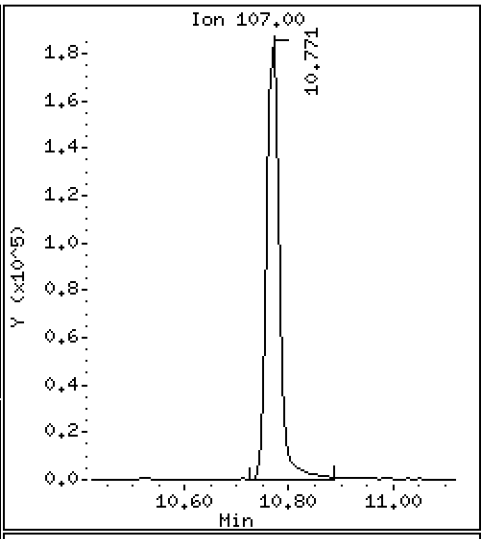
Column phase: ZB-5msi

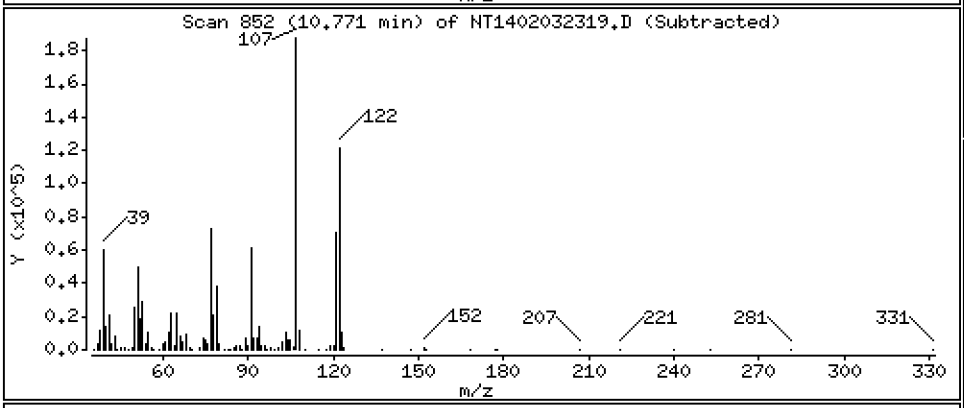
Column diameter: 0.25

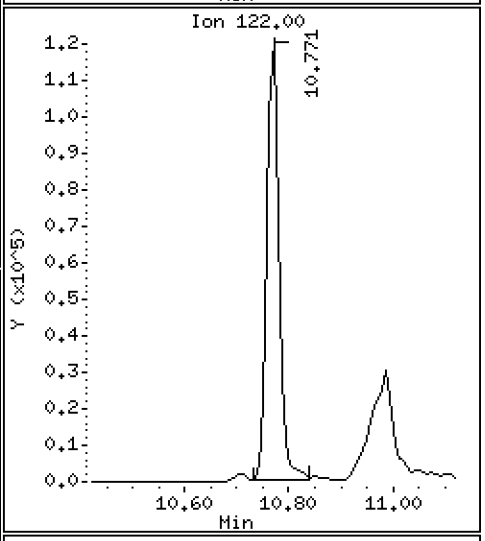
22 2,4-Dimethylphenol

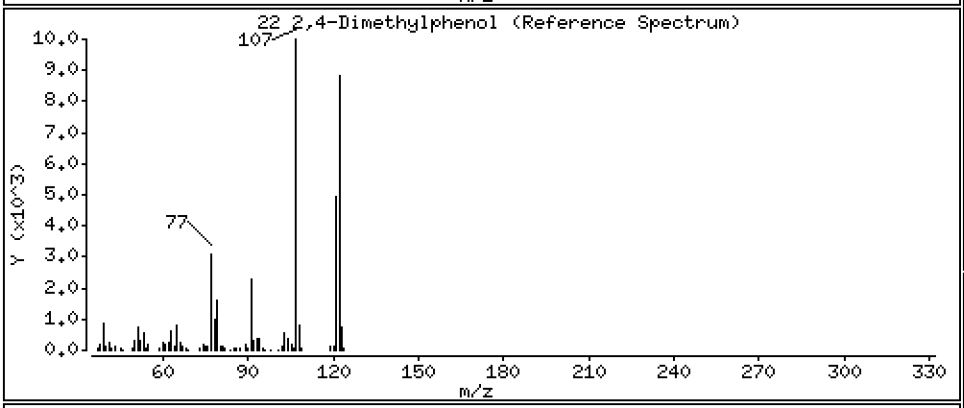
Concentration: 8.679 ug/mL

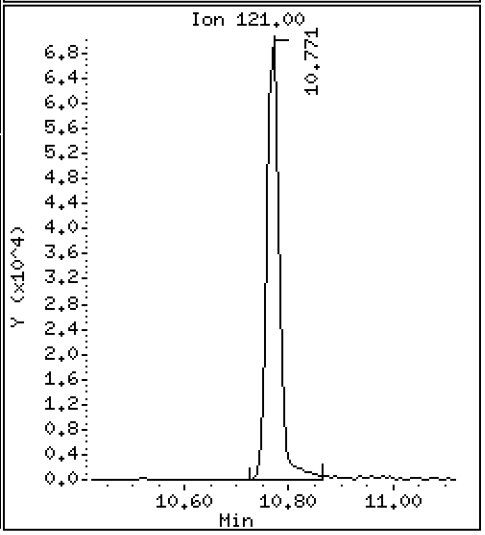


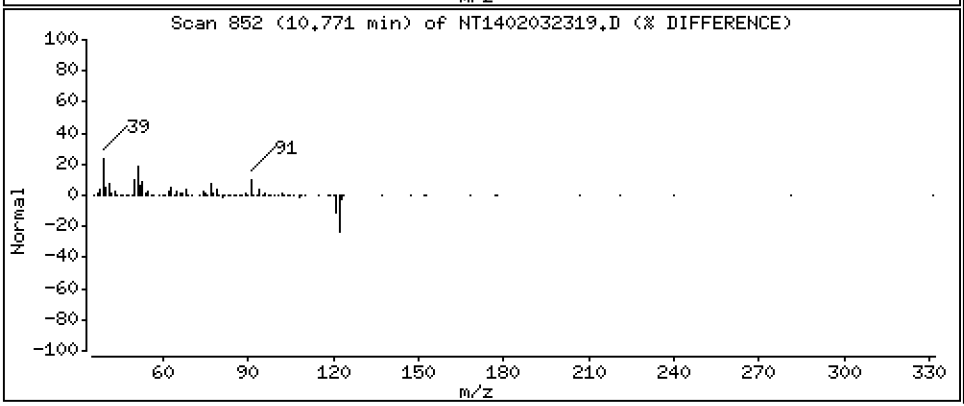












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

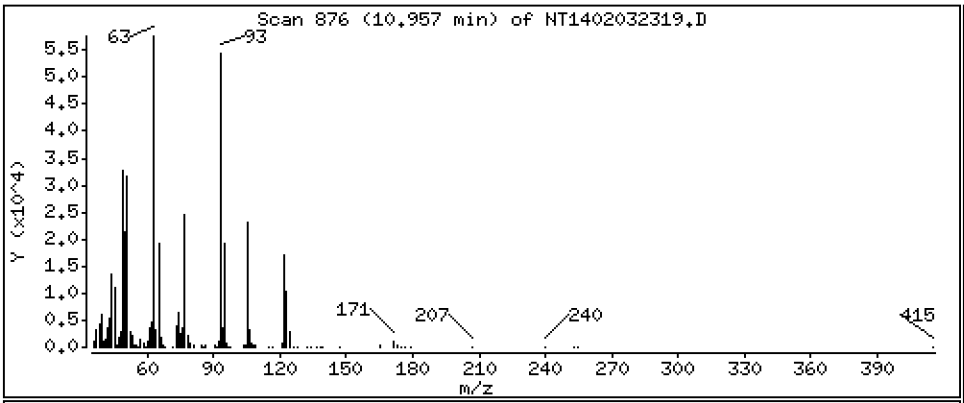
Operator: DSD

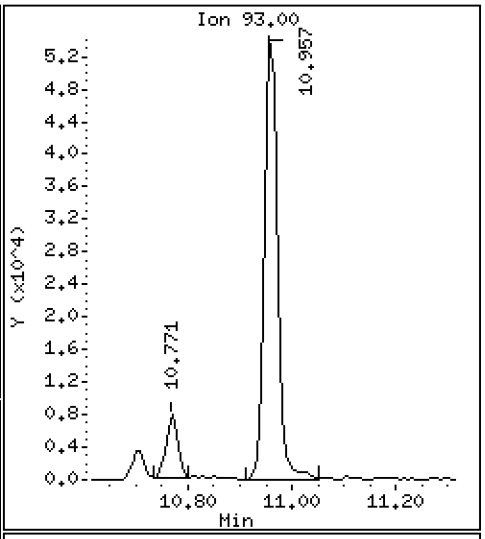
Column phase: ZB-5msi

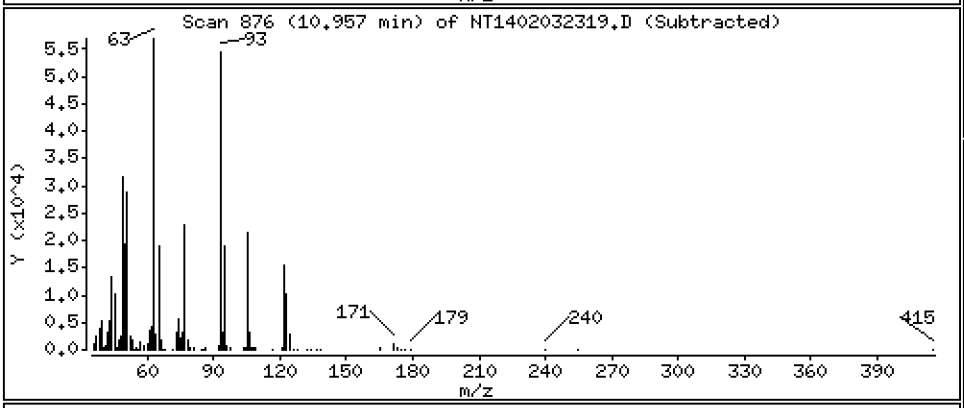
Column diameter: 0.25

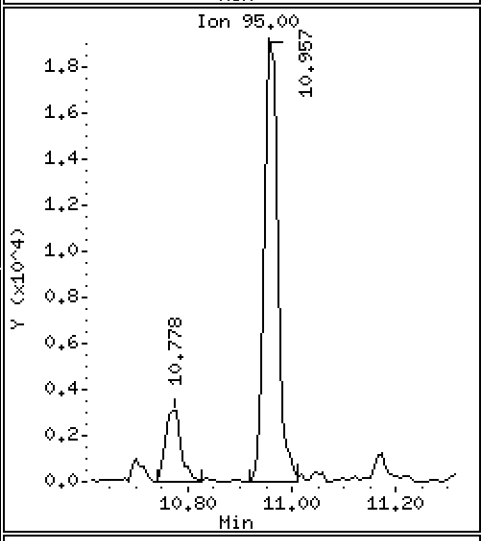
23 Bis(2-Chloroethoxy)methane

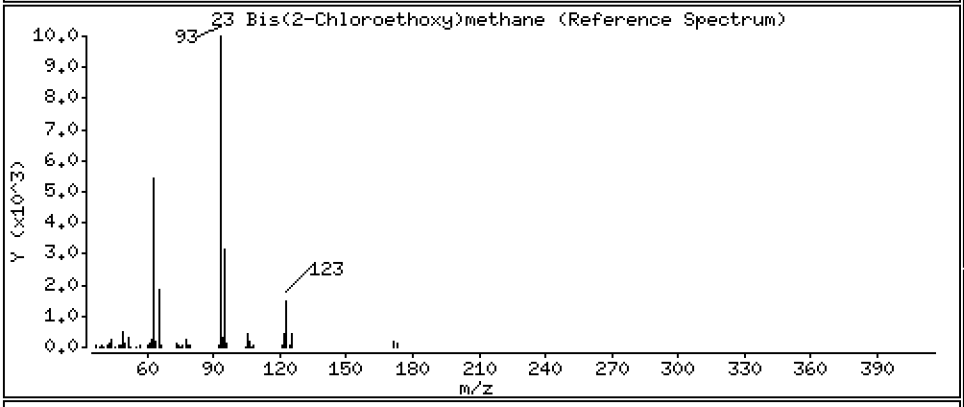
Concentration: 4.612 ug/mL

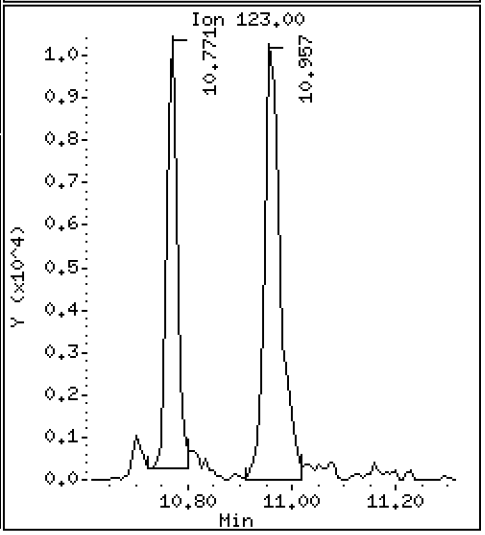


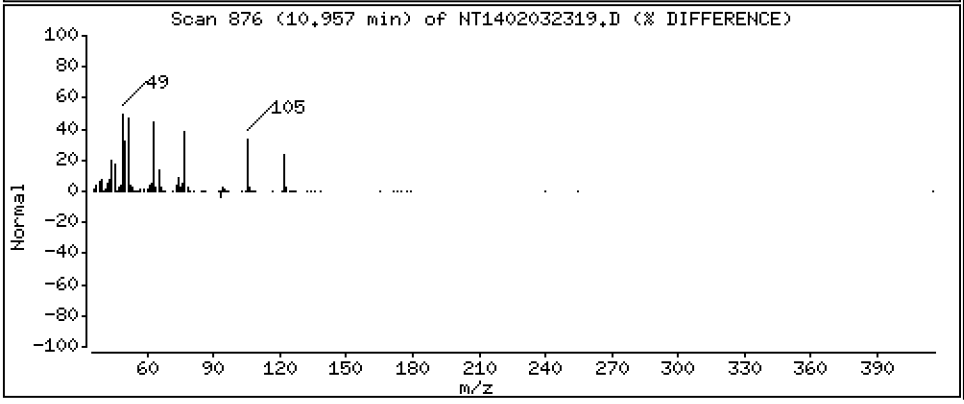












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

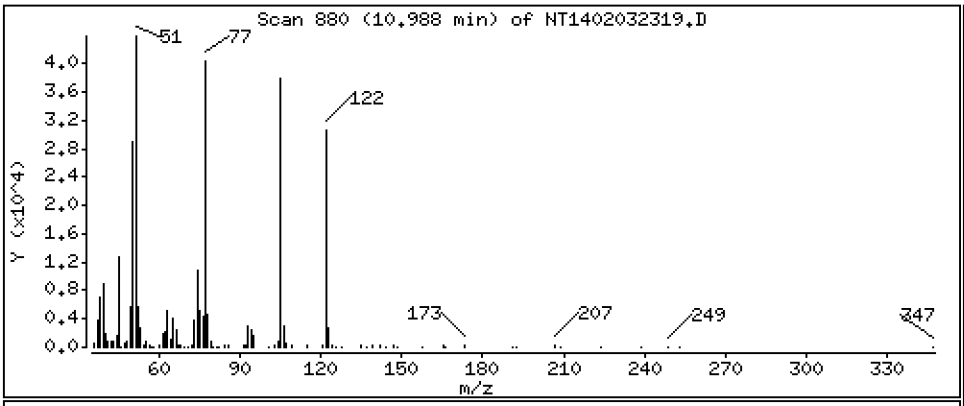
Operator: DSD

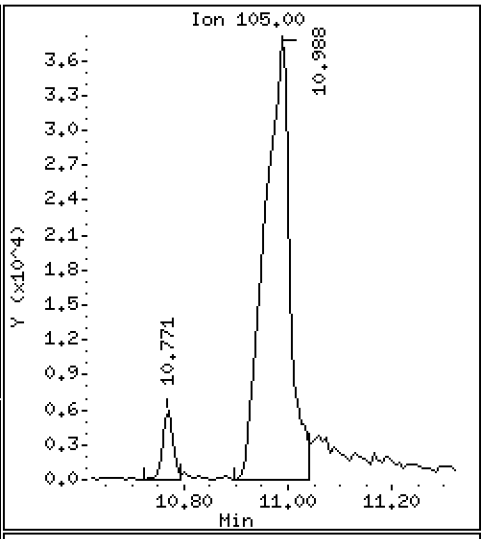
Column phase: ZB-5msi

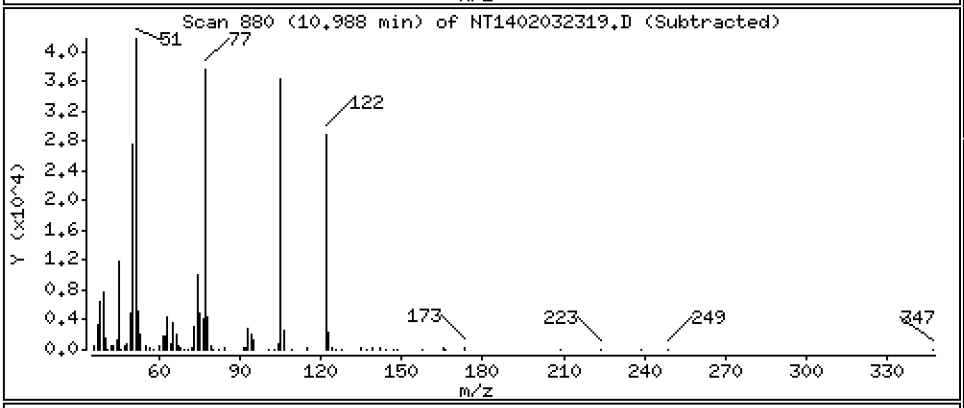
Column diameter: 0.25

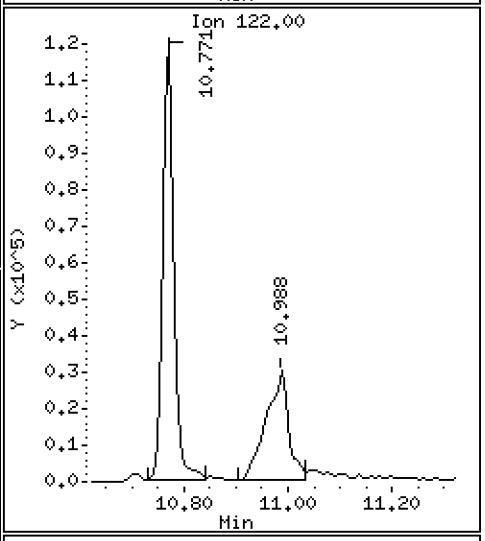
24 Benzoic acid

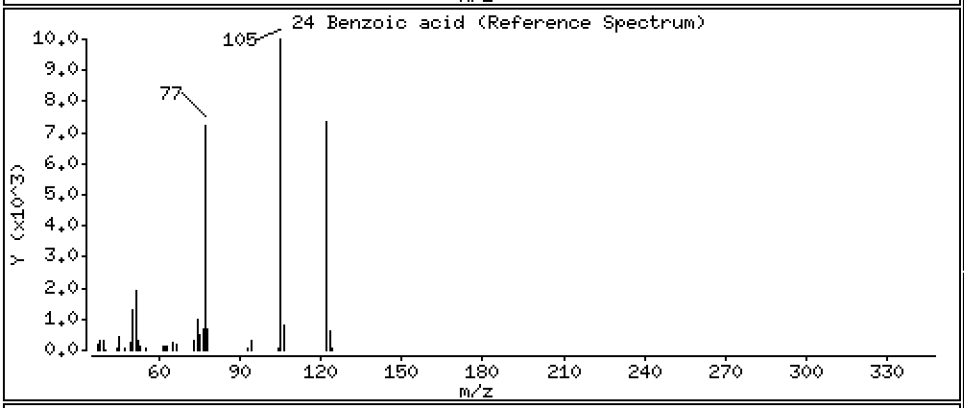
Concentration: 6.193 ug/mL

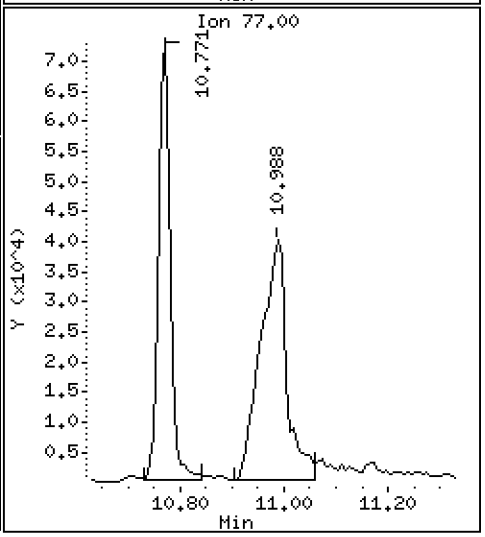


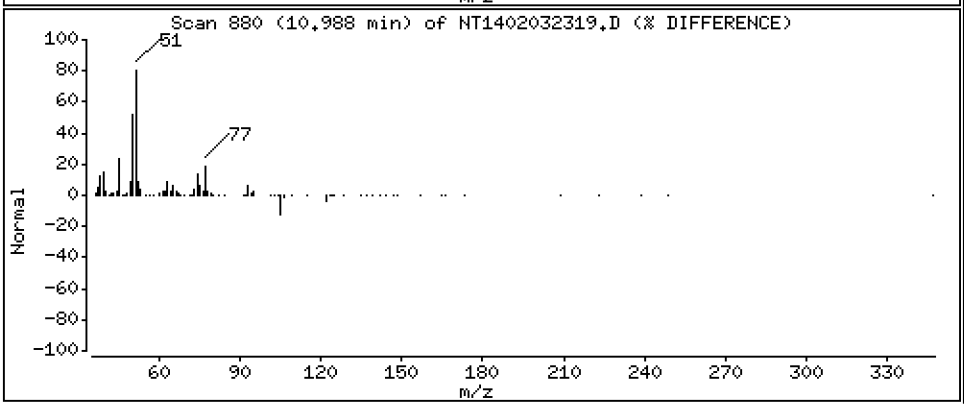












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

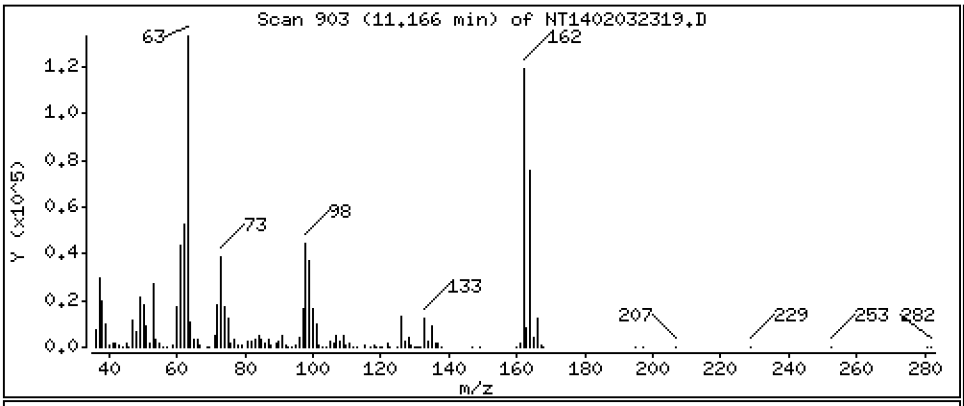
Operator: DSD

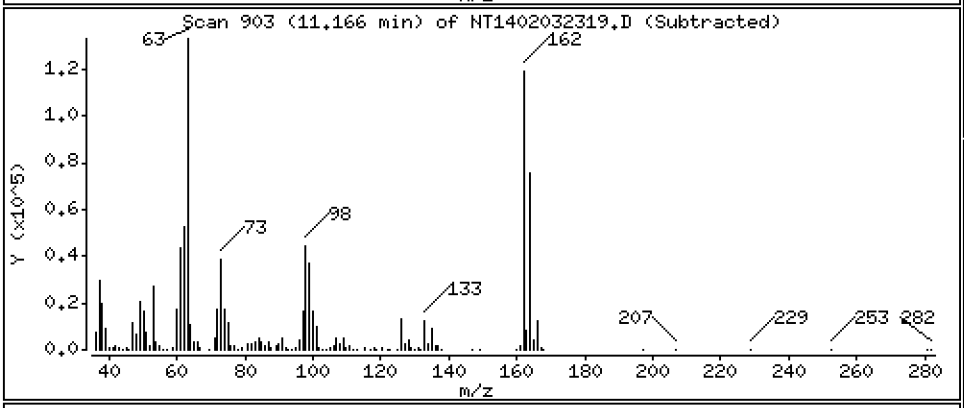
Column phase: ZB-5msi

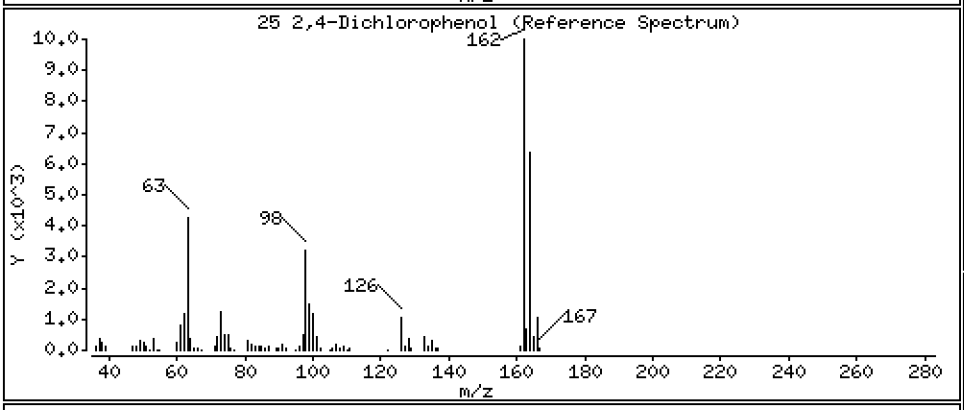
Column diameter: 0.25

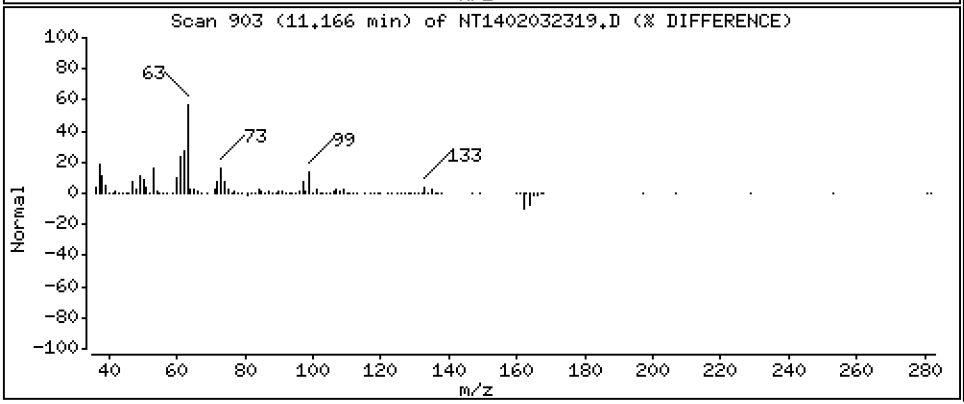
25 2,4-Dichlorophenol

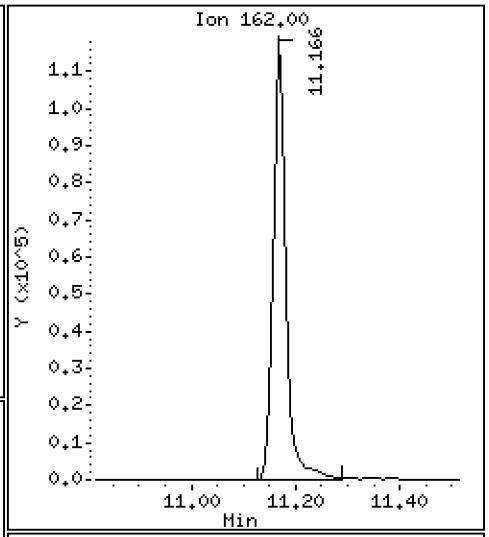
Concentration: 9.027 ug/mL

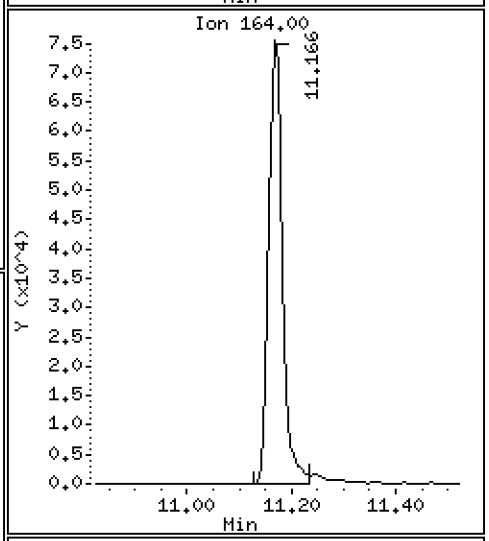


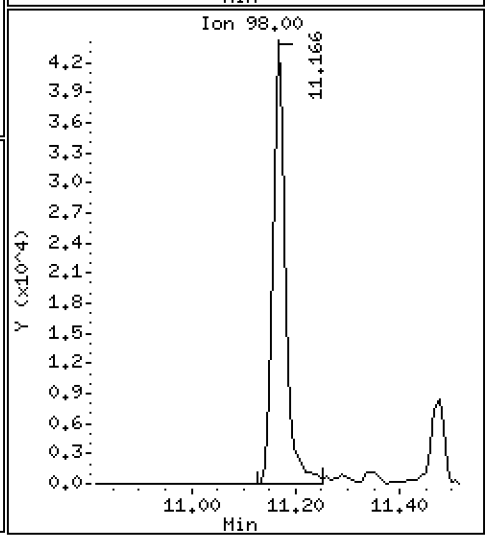












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

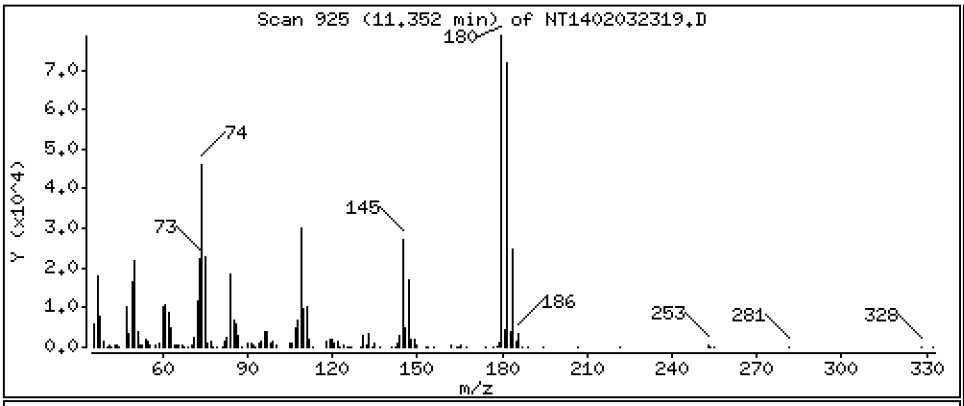
Operator: DSD

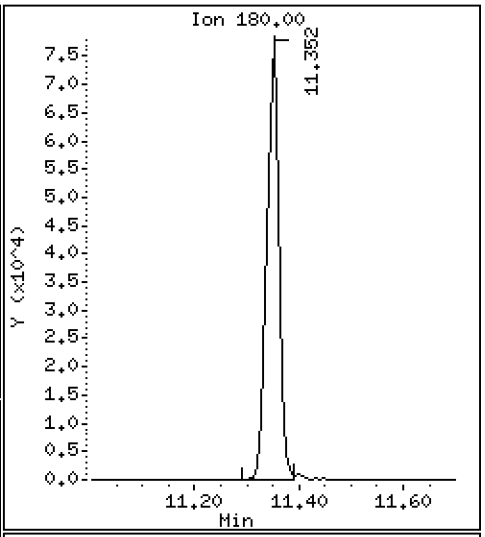
Column phase: ZB-5msi

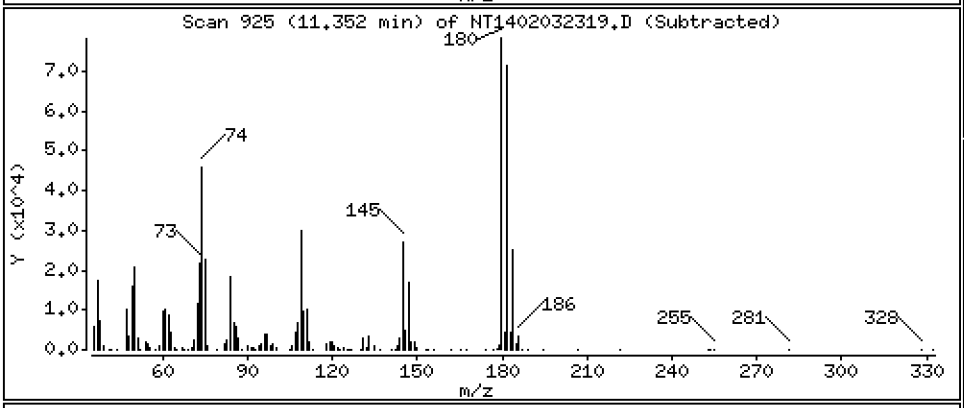
Column diameter: 0.25

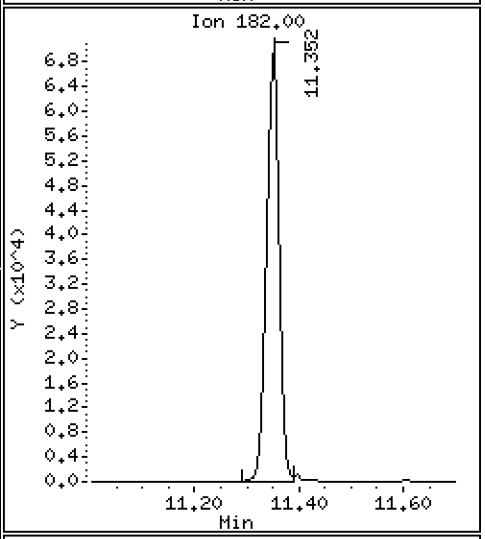
26 1,2,4-Trichlorobenzene

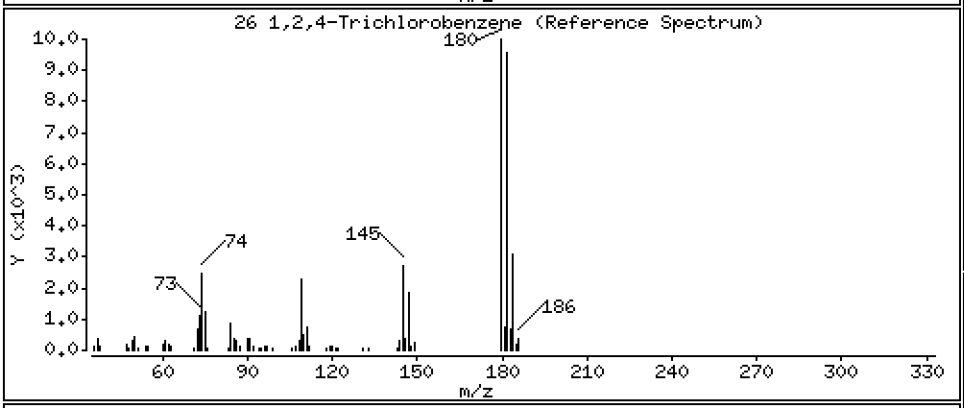
Concentration: 5.899 ug/mL

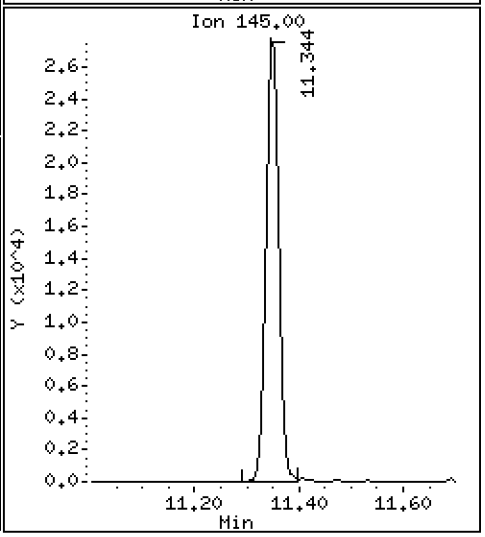


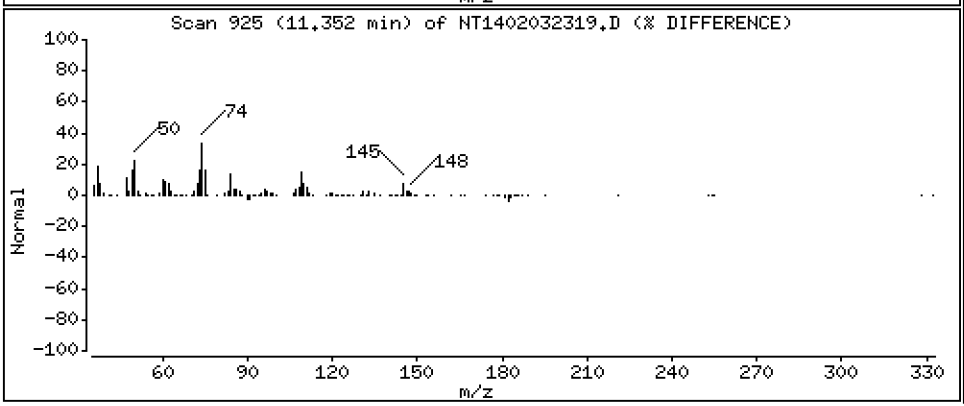












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

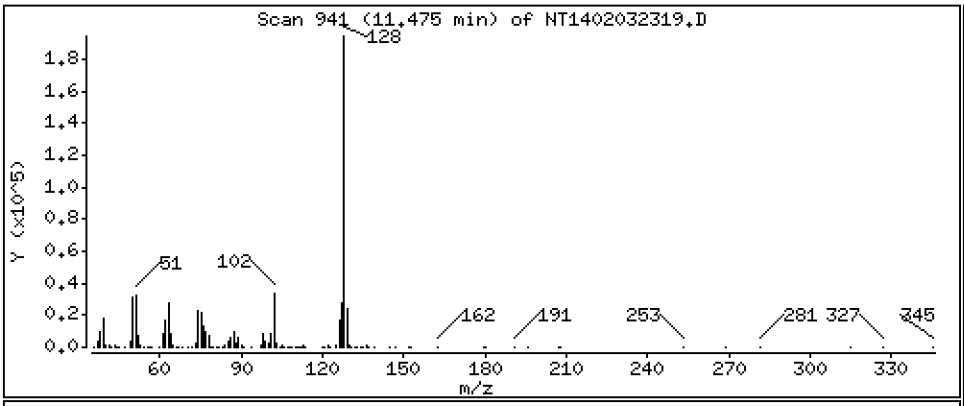
Operator: DSD

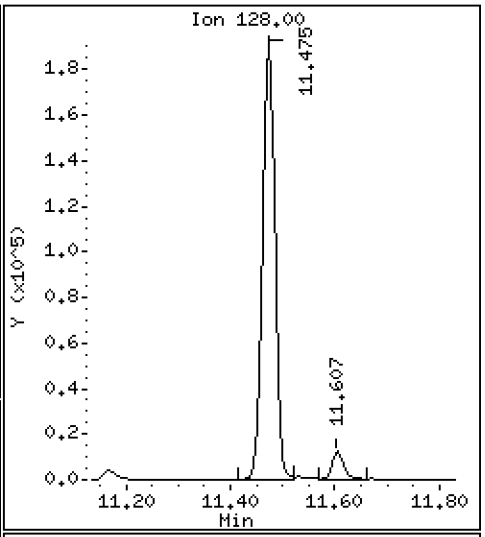
Column phase: ZB-5msi

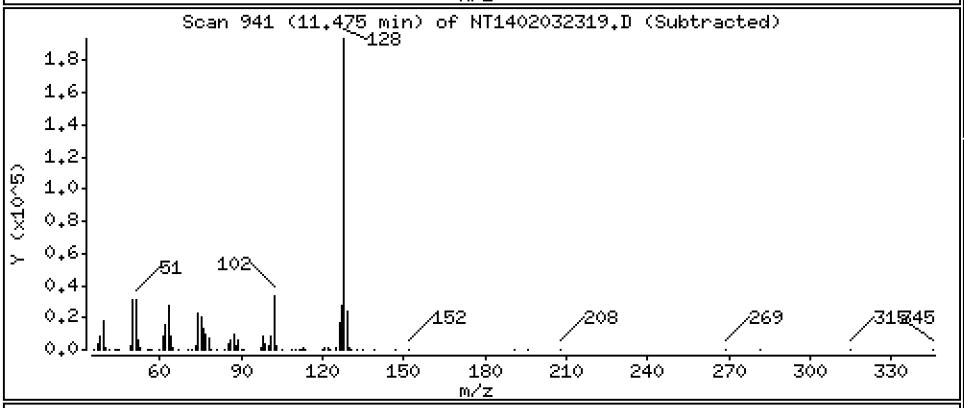
Column diameter: 0.25

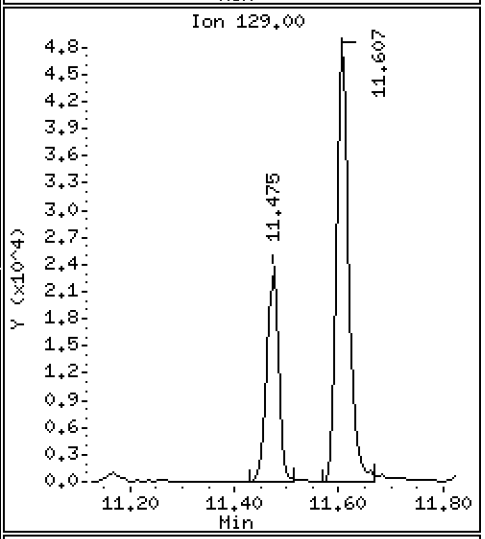
28 Naphthalene

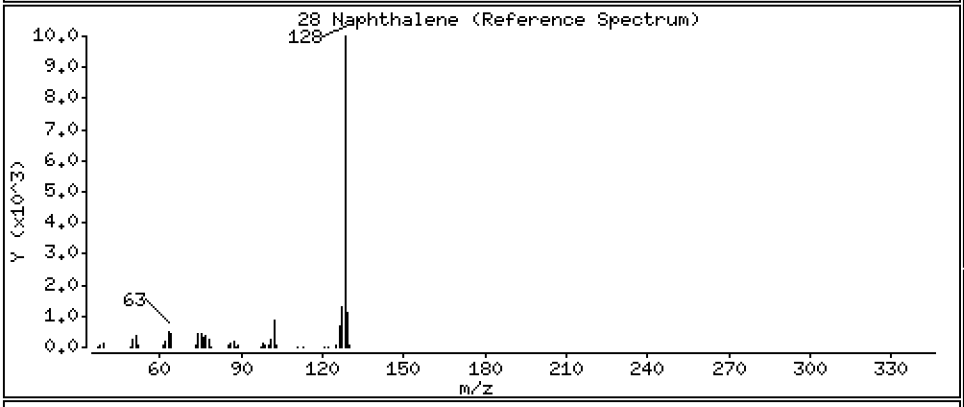
Concentration: 4.822 ug/mL

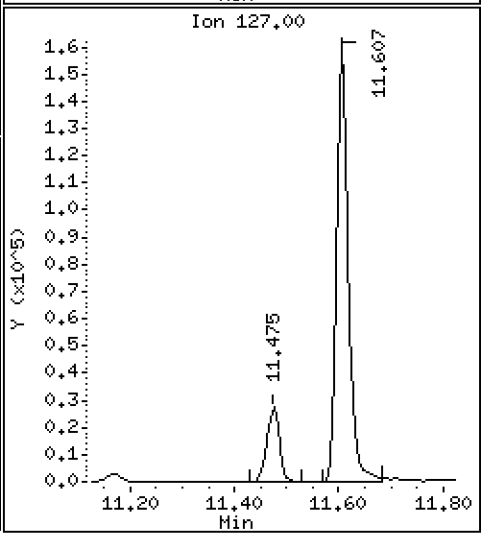


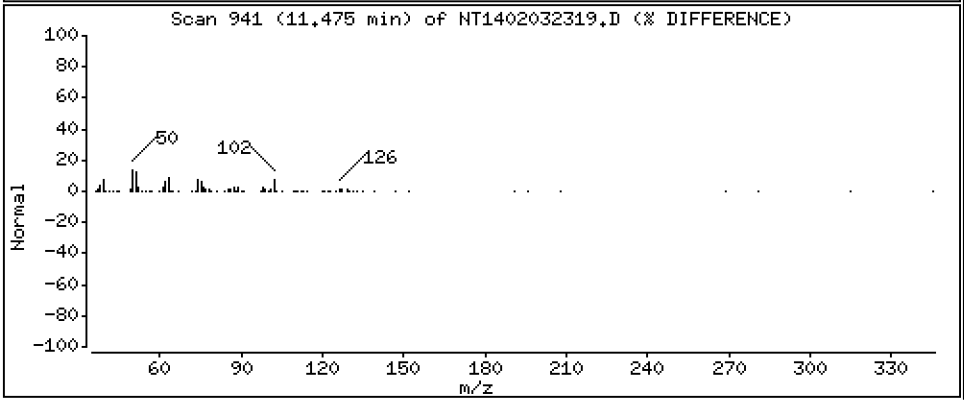












Date : 03-FEB-2023 23:57

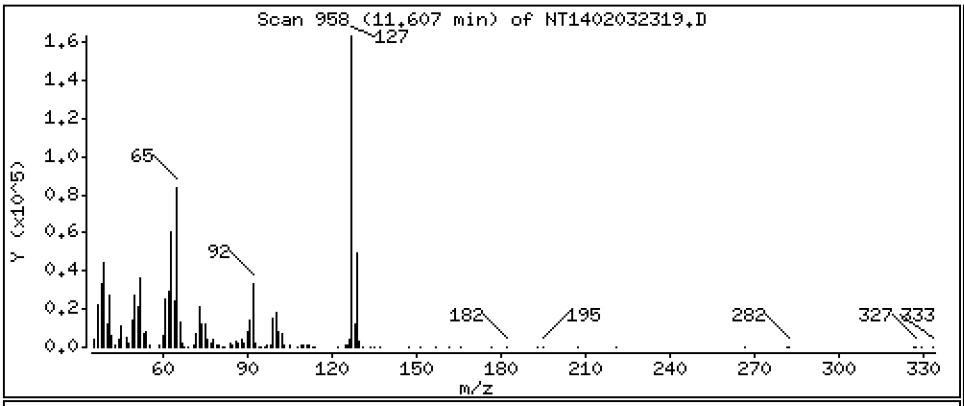
Client ID: Instrument: nt14.i

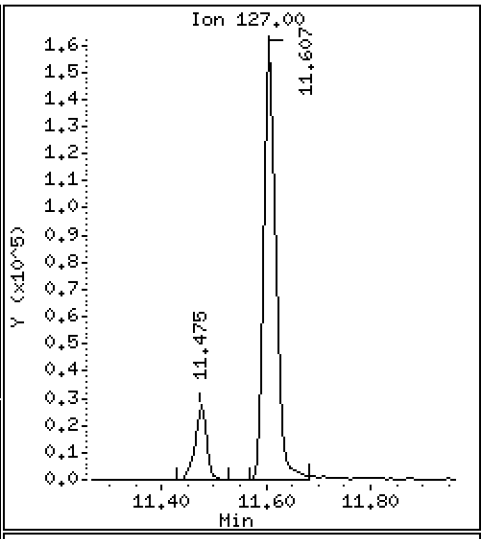
Sample Info: SLB0035-CCV1

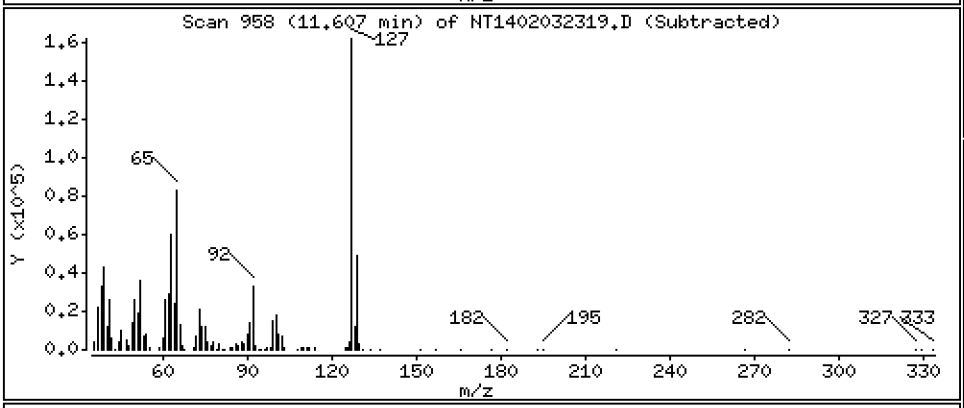
Operator: DSD

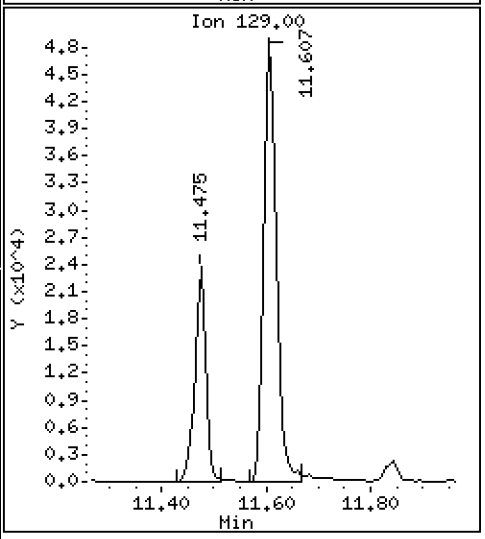
Column phase: ZB-5msi Column diameter: 0.25

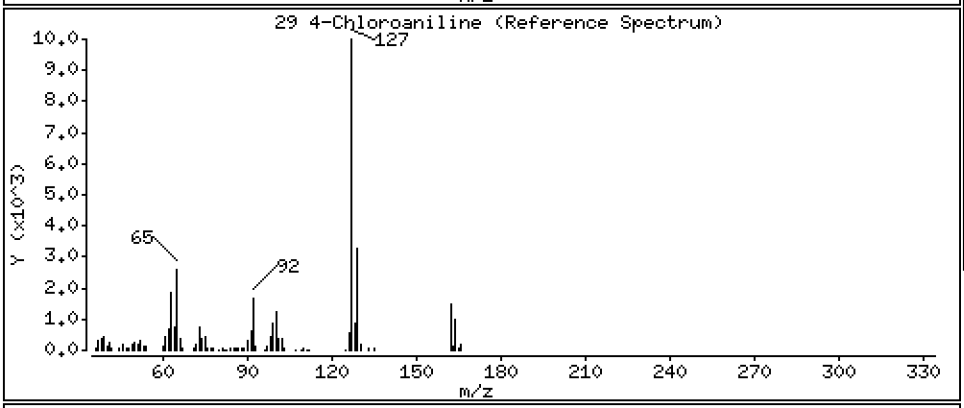
29 4-Chloroaniline Concentration: 9.357 ug/mL

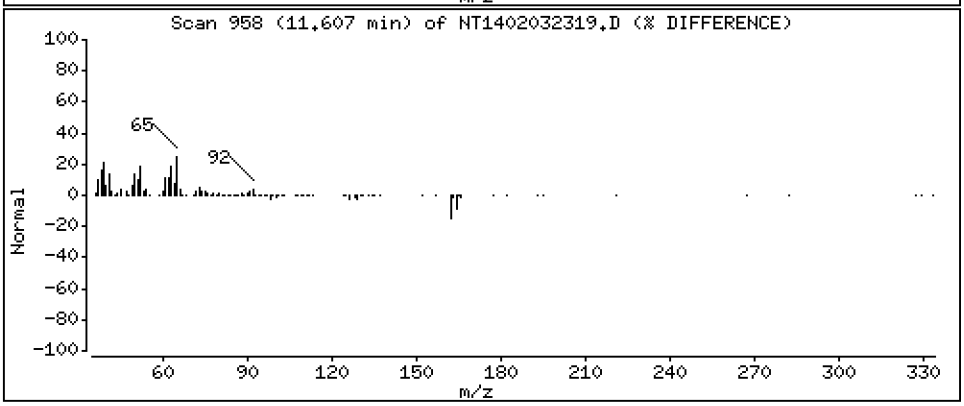












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

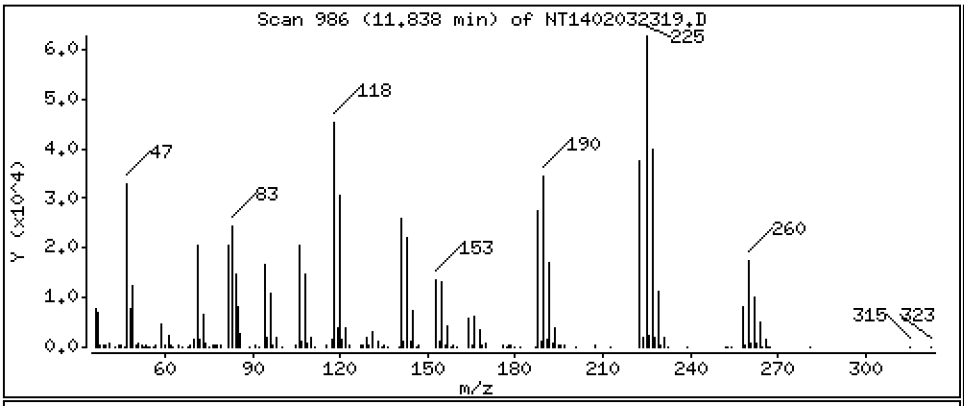
Operator: DSD

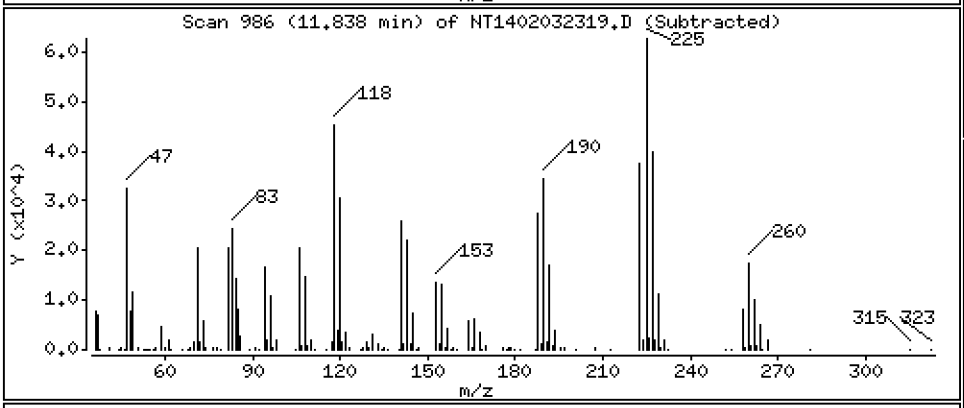
Column phase: ZB-5msi

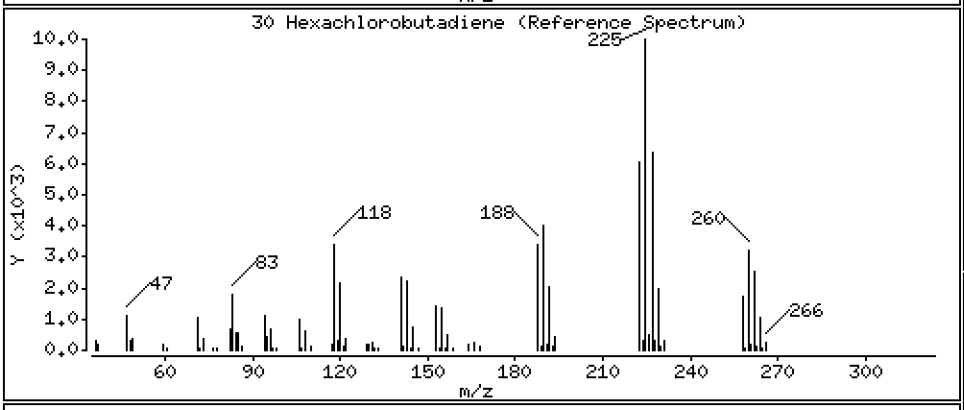
Column diameter: 0.25

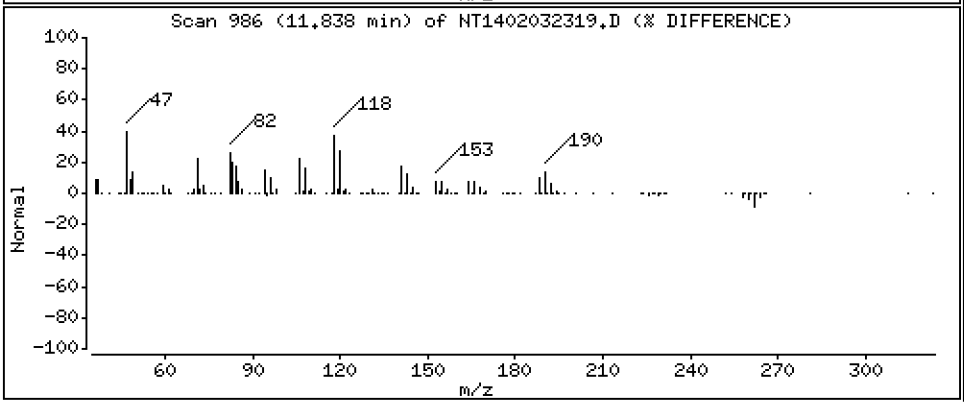
30 Hexachlorobutadiene

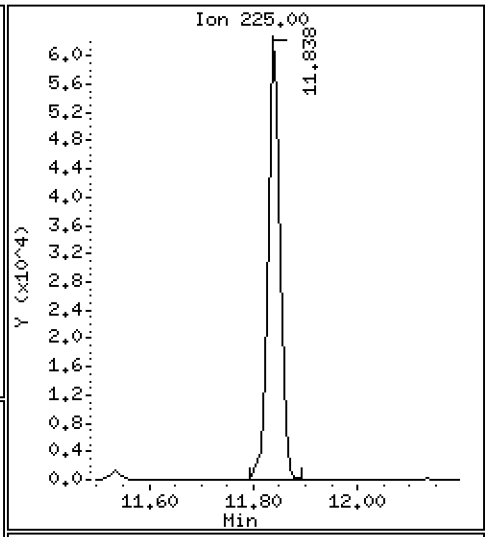
Concentration: 6.091 ug/mL

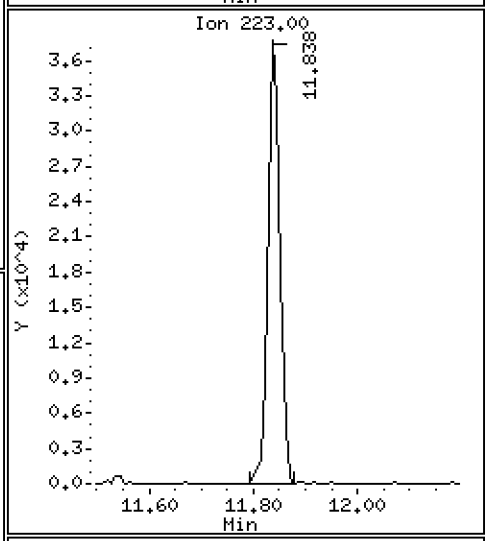


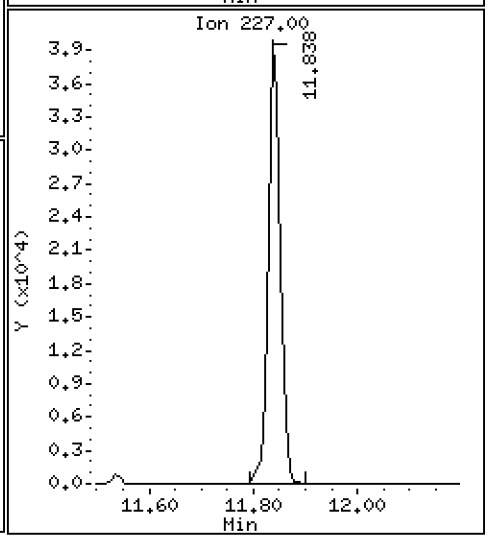












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

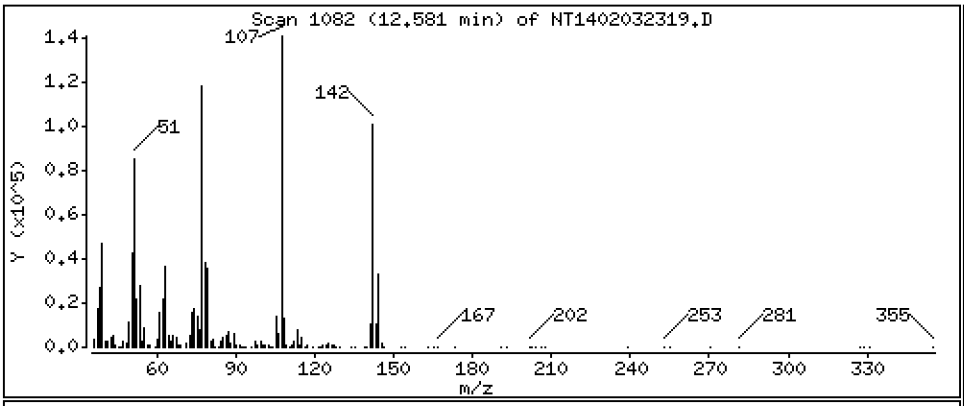
Operator: DSD

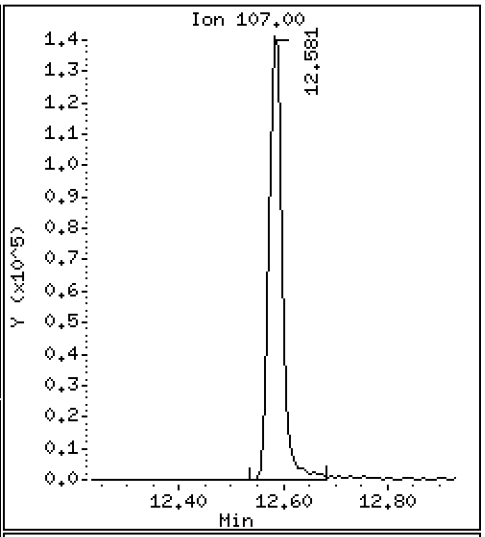
Column phase: ZB-5msi

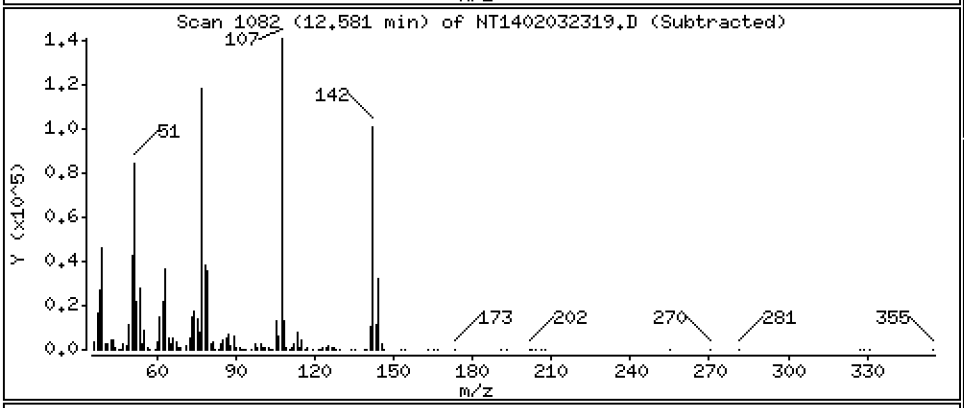
Column diameter: 0.25

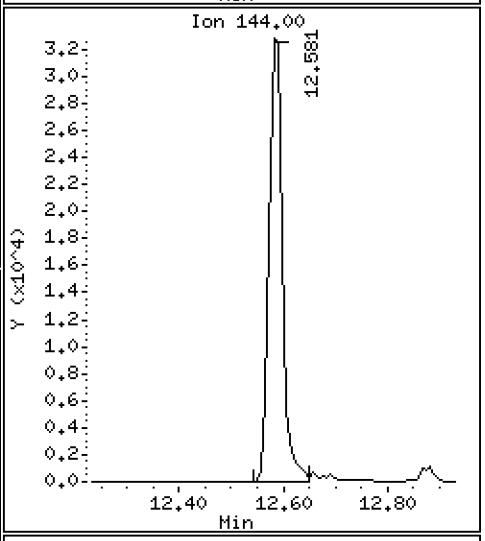
31 4-Chloro-3-methylphenol

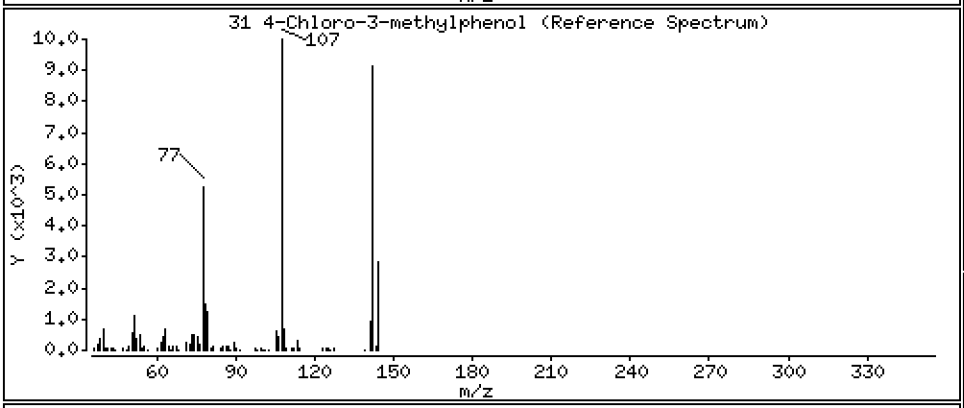
Concentration: 8.154 ug/mL

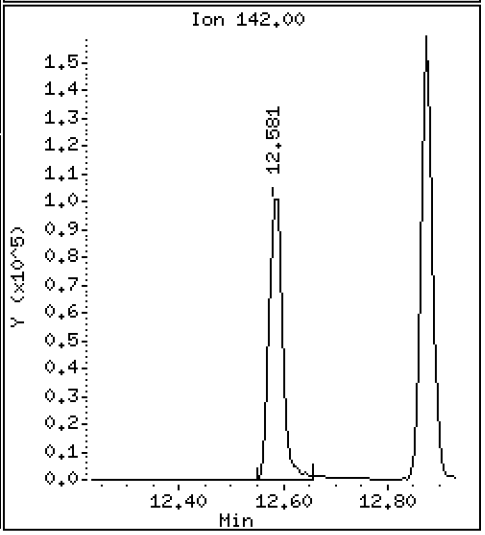


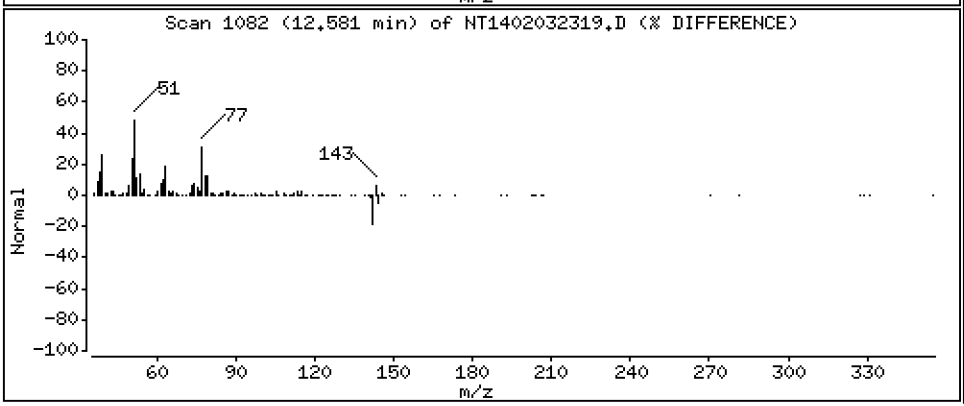












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

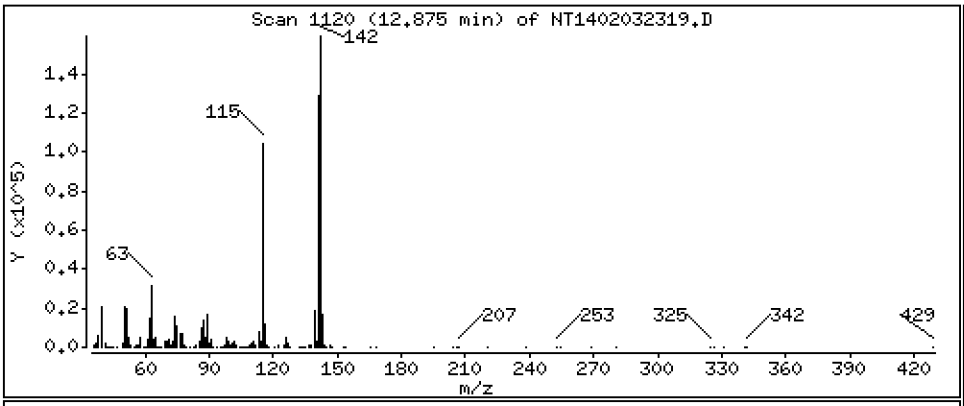
Operator: DSD

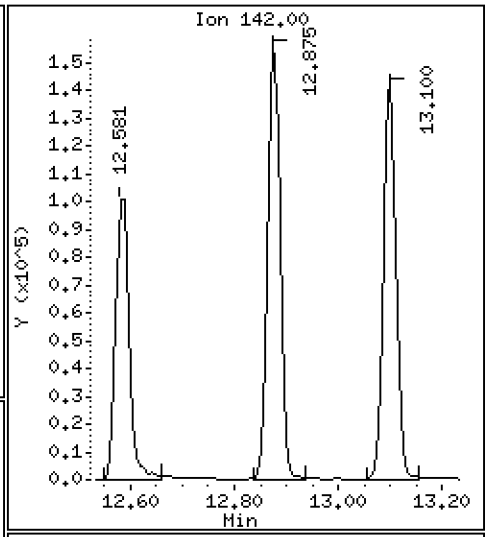
Column phase: ZB-5msi

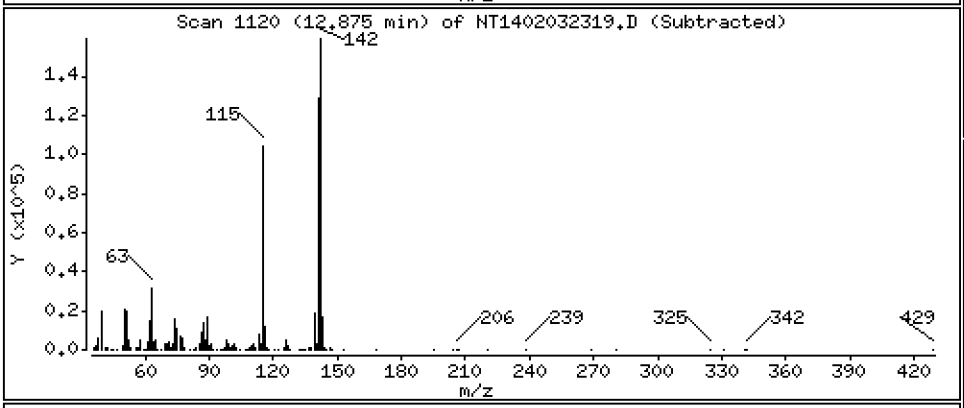
Column diameter: 0.25

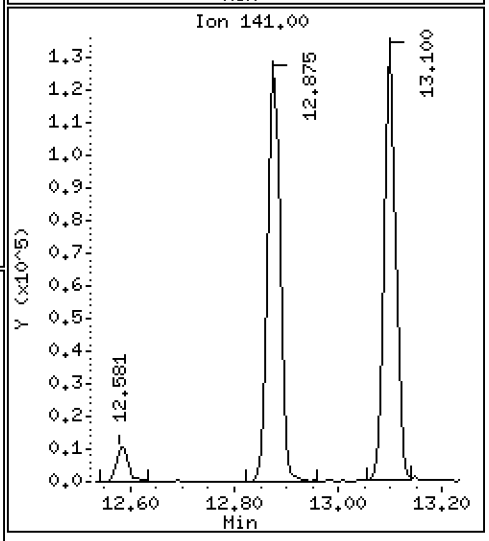
32 2-Methylnaphthalene

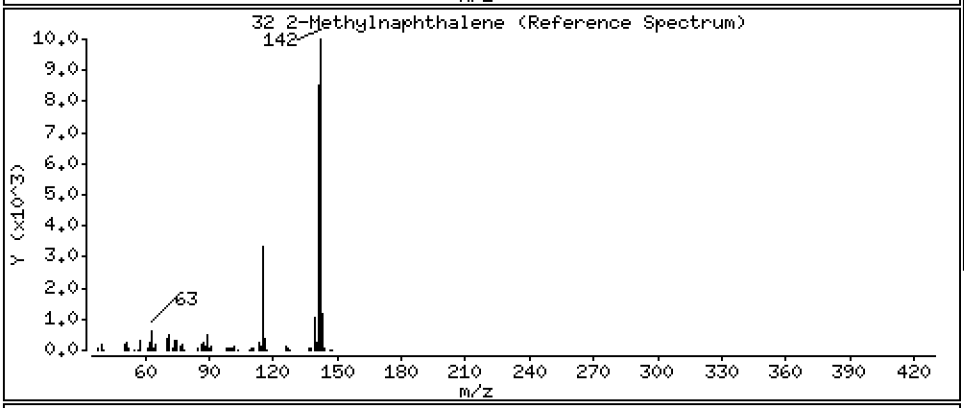
Concentration: 4.831 ug/mL

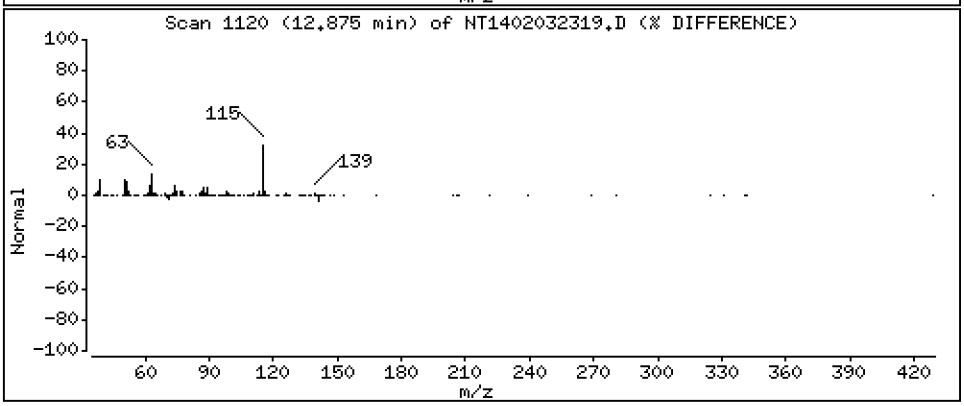












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

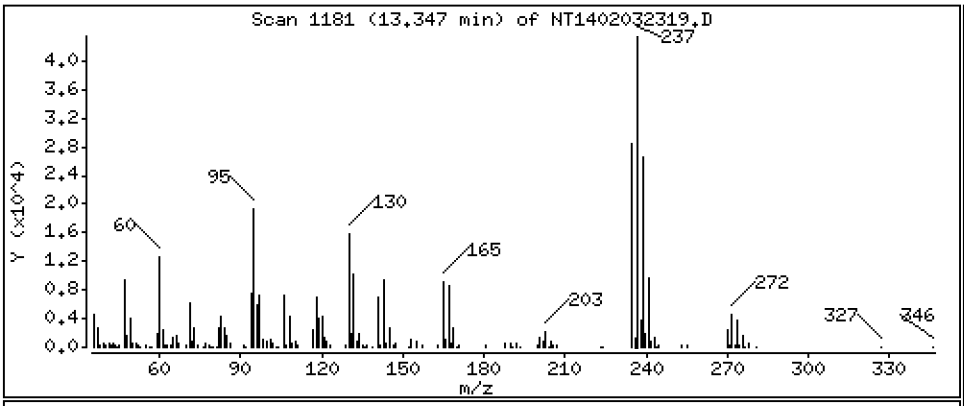
Operator: DSD

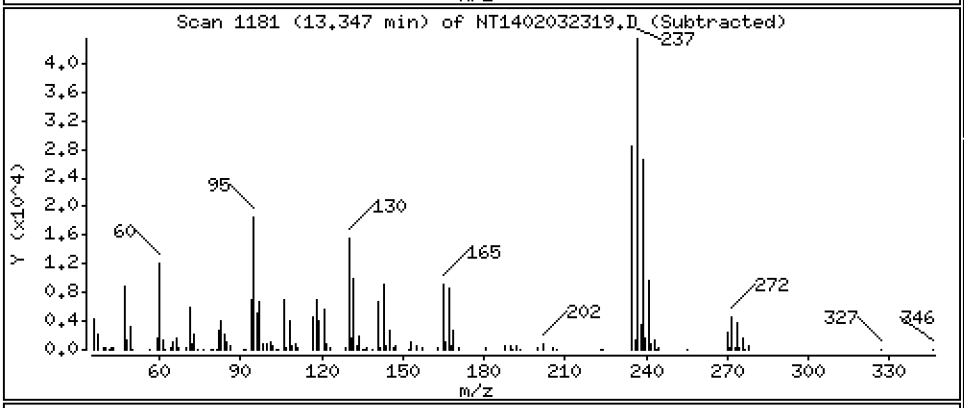
Column phase: ZB-5msi

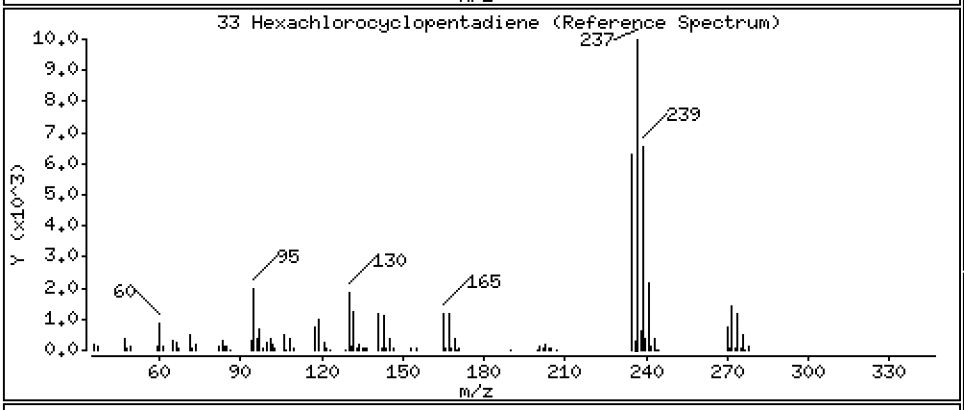
Column diameter: 0.25

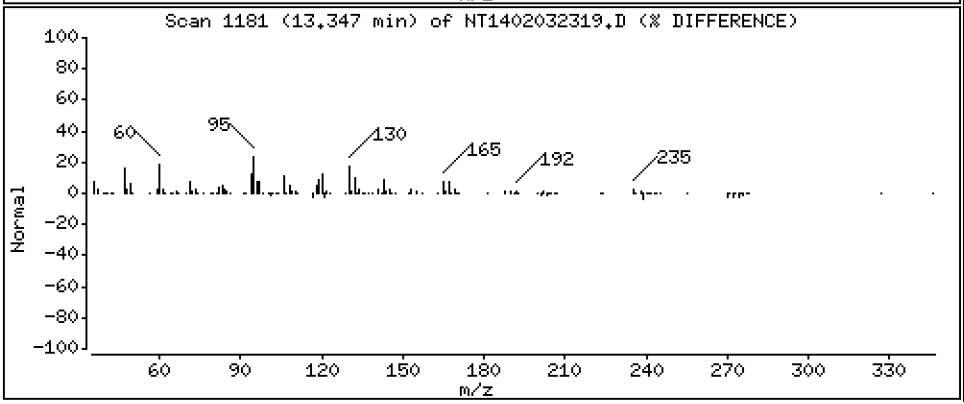
33 Hexachlorocyclopentadiene

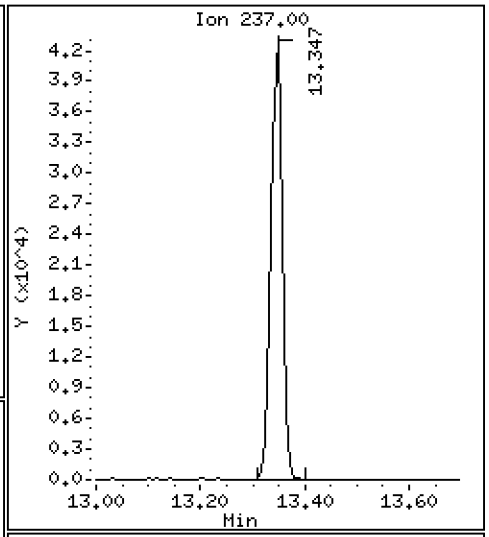
Concentration: 2.906 ug/mL

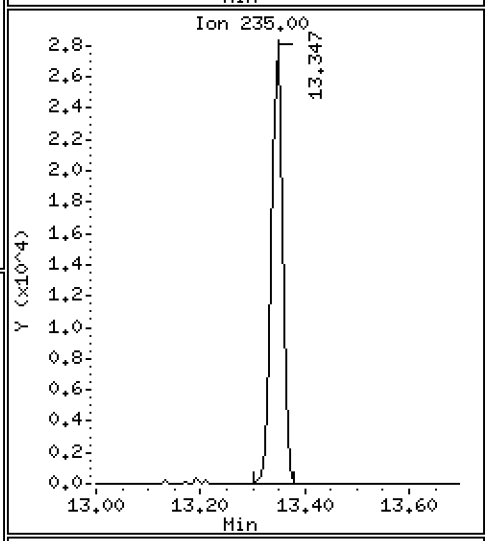


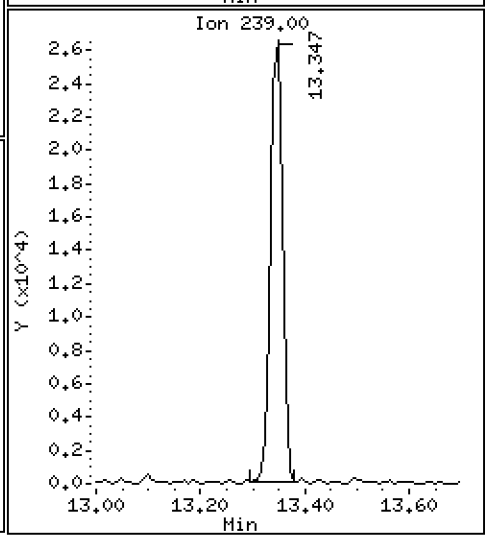












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

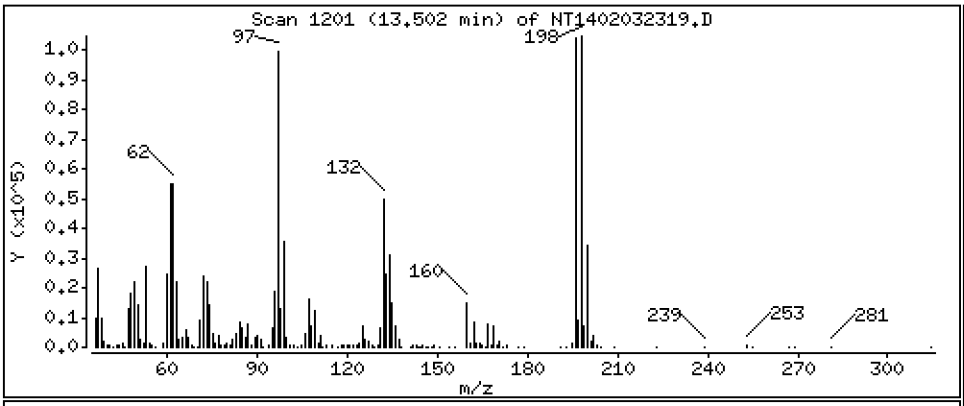
Operator: DSD

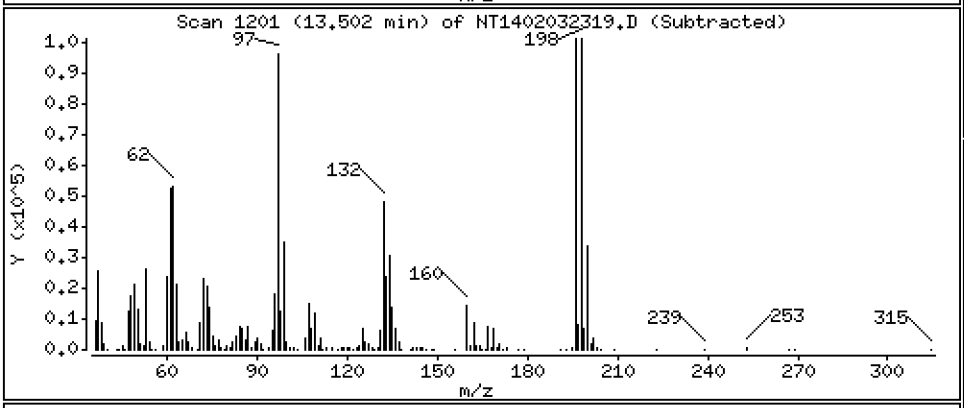
Column phase: ZB-5msi

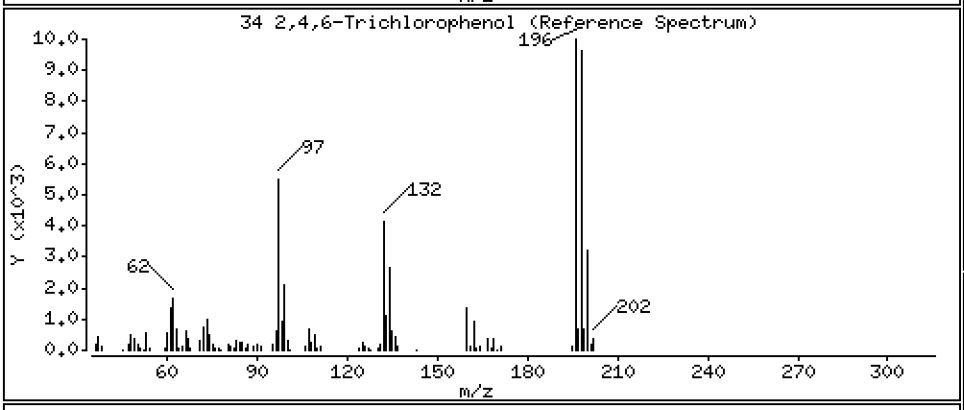
Column diameter: 0.25

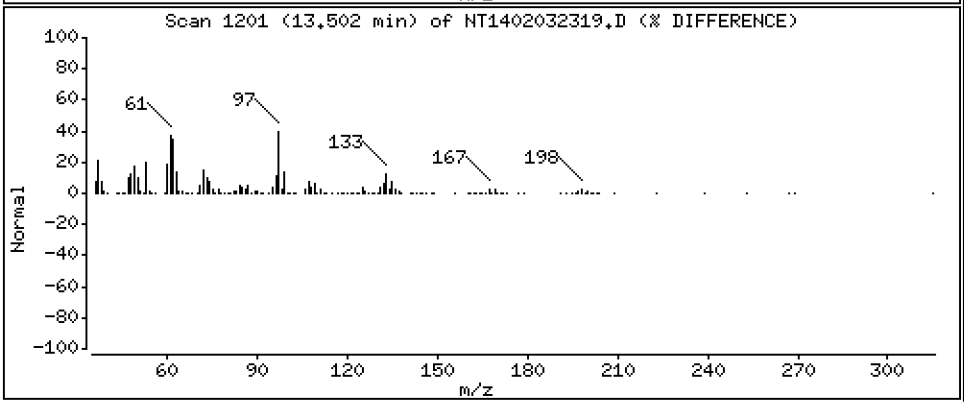
34 2,4,6-Trichlorophenol

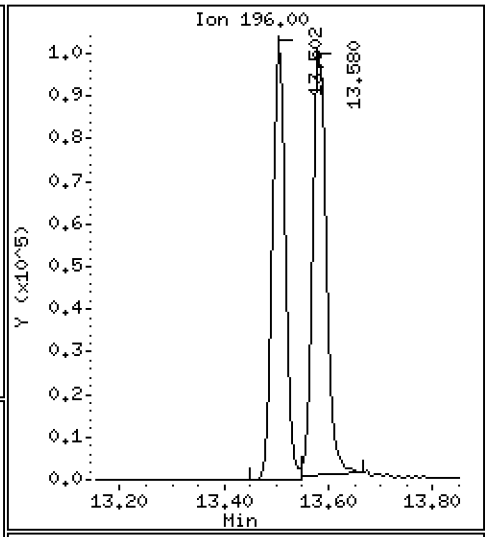
Concentration: 8.790 ug/mL

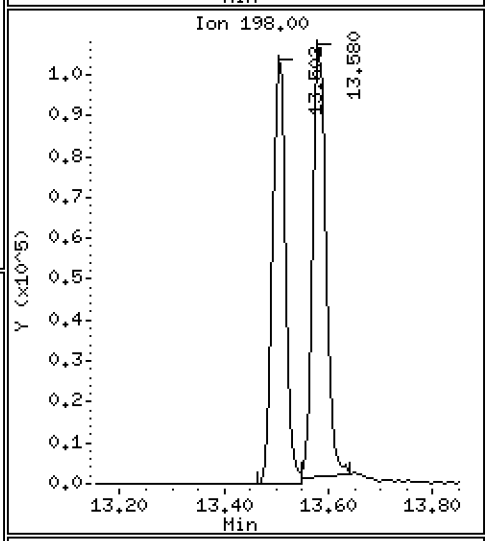


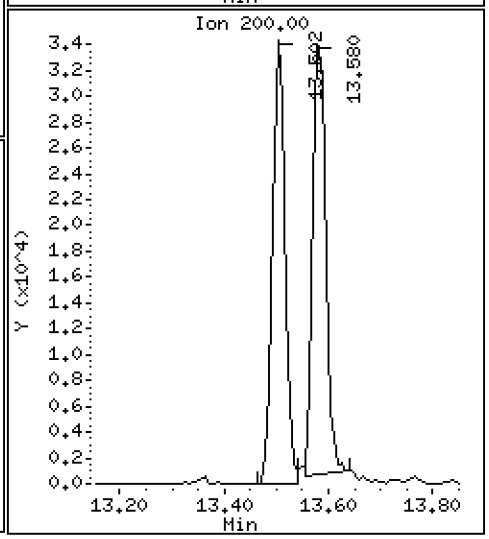












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

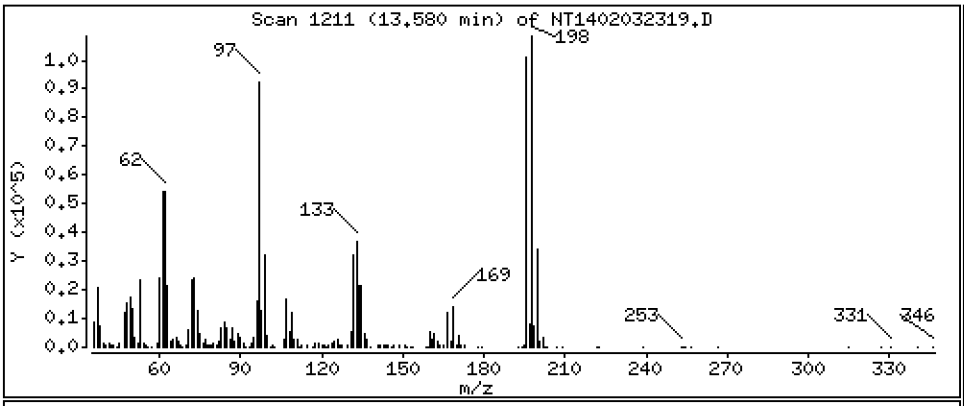
Operator: DSD

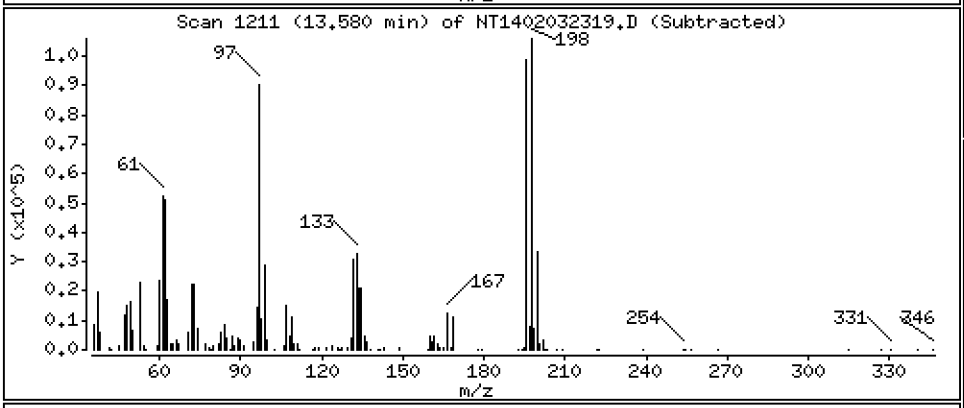
Column phase: ZB-5msi

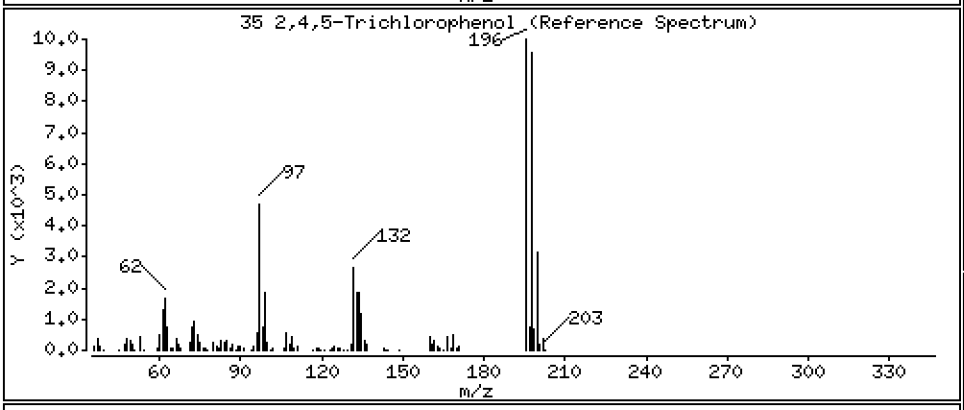
Column diameter: 0.25

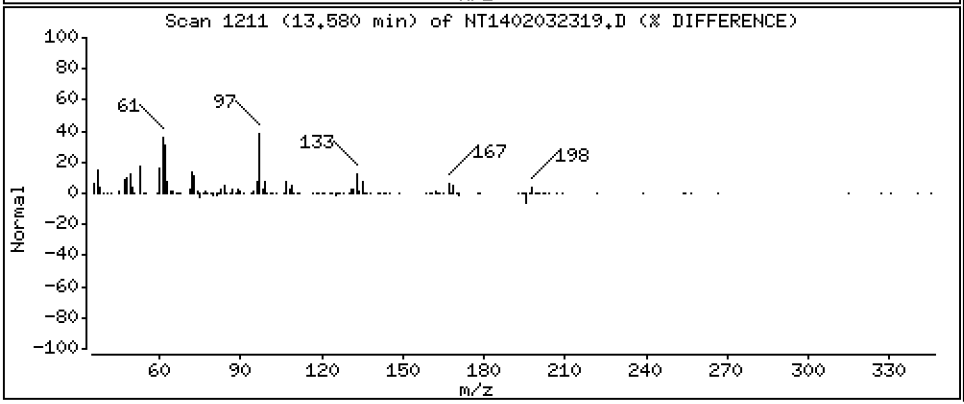
35 2,4,5-Trichlorophenol

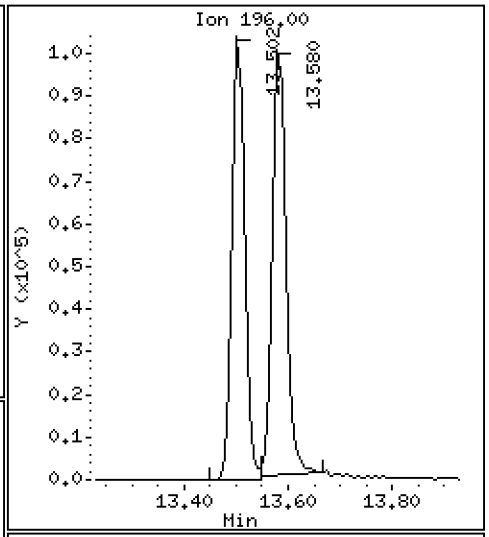
Concentration: 8.186 ug/mL

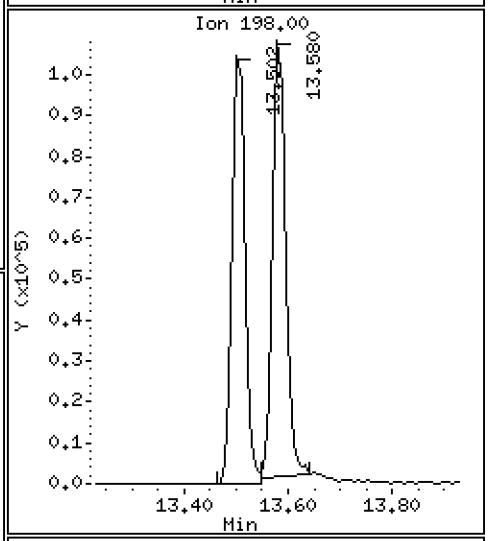


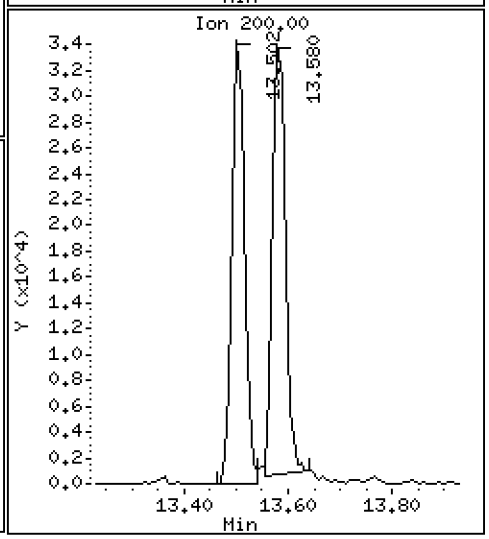












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

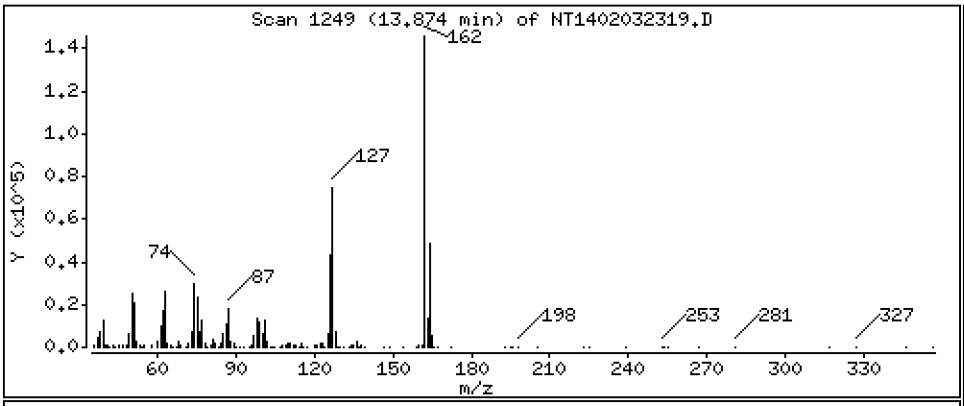
Operator: DSD

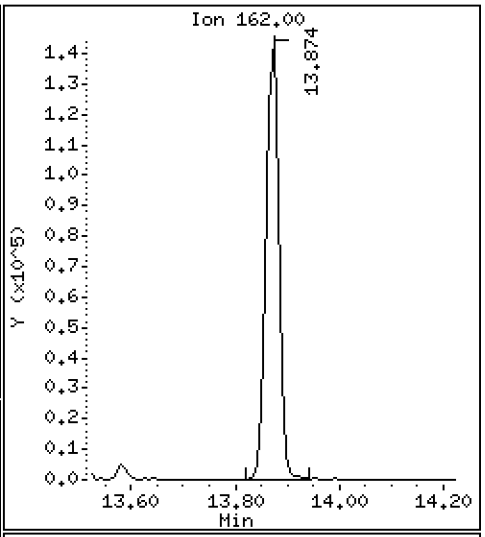
Column phase: ZB-5msi

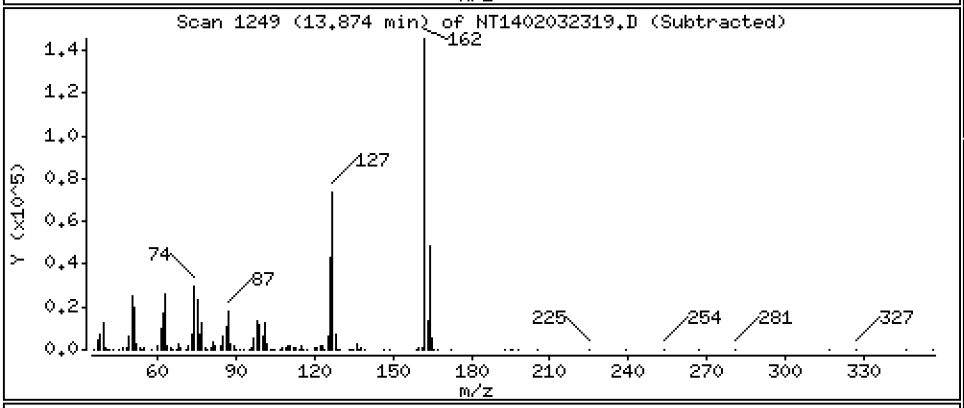
Column diameter: 0.25

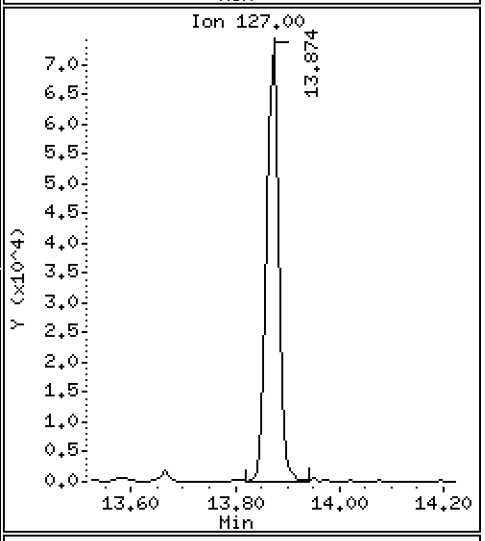
37 2-Chloronaphthalene

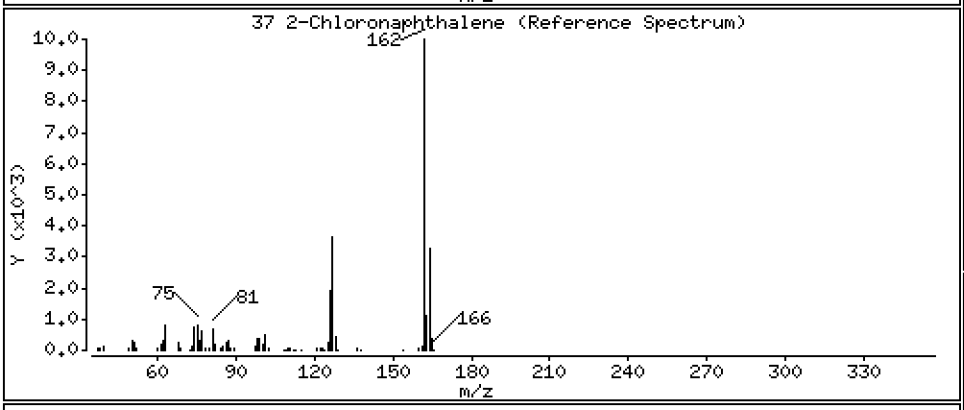
Concentration: 5.244 ug/mL

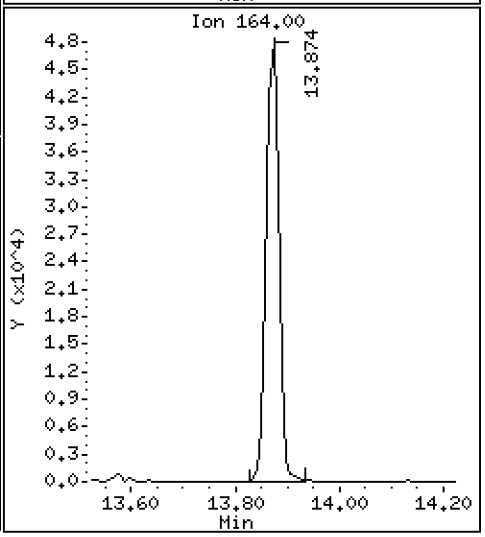


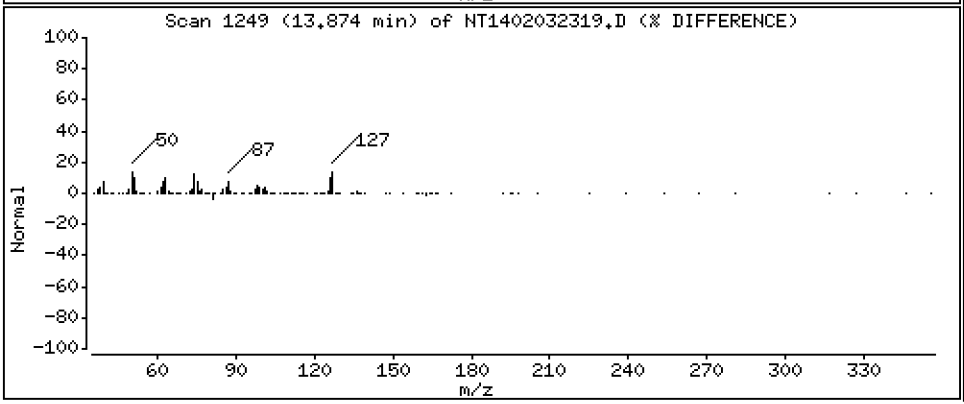












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

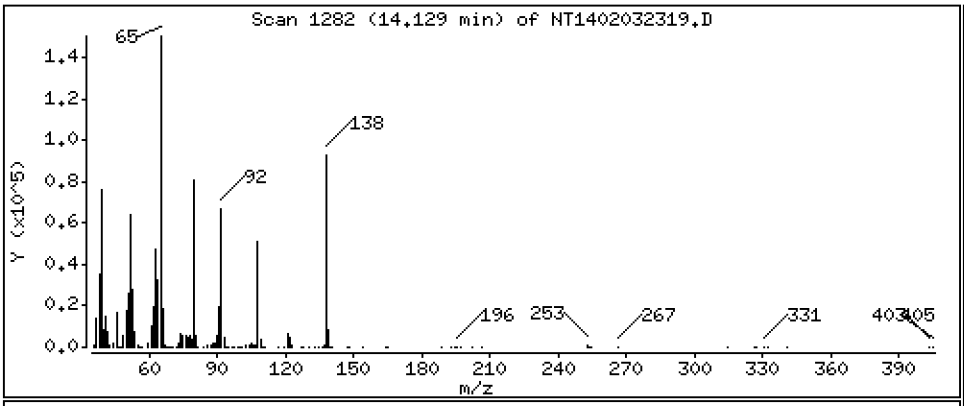
Operator: DSD

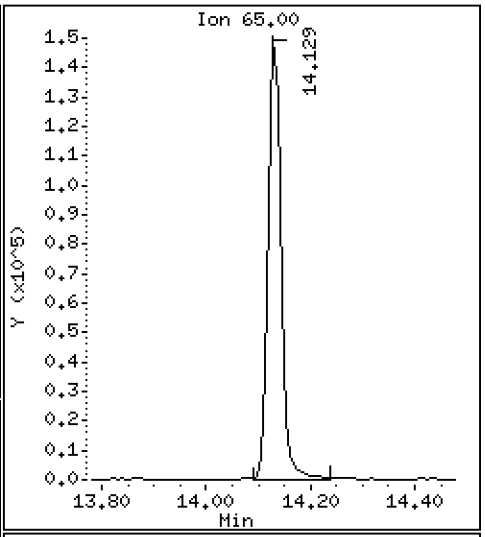
Column phase: ZB-5msi

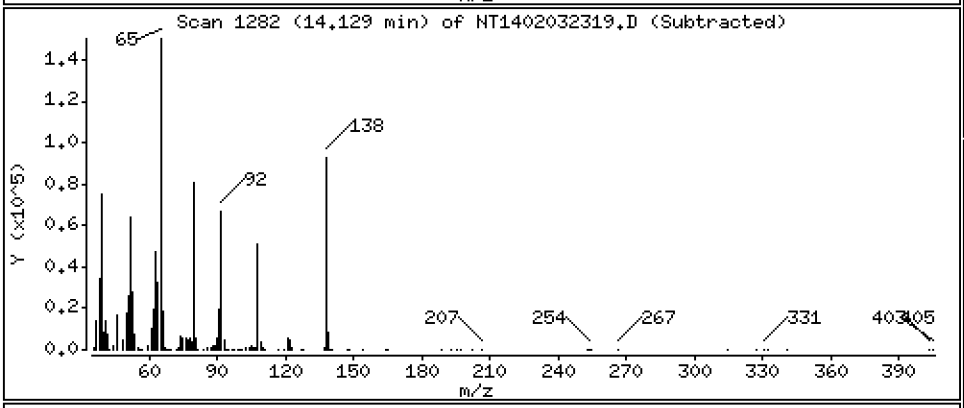
Column diameter: 0.25

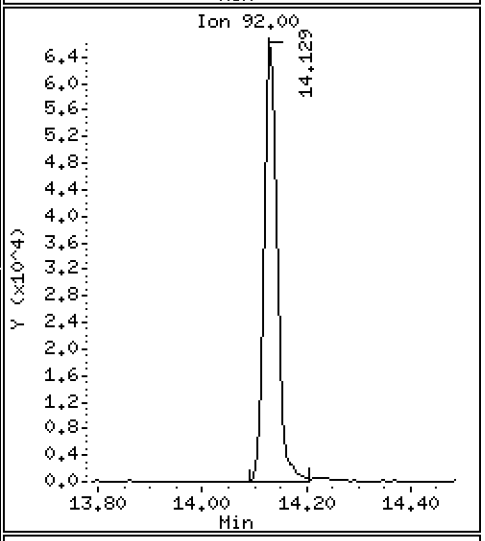
38 2-Nitroaniline

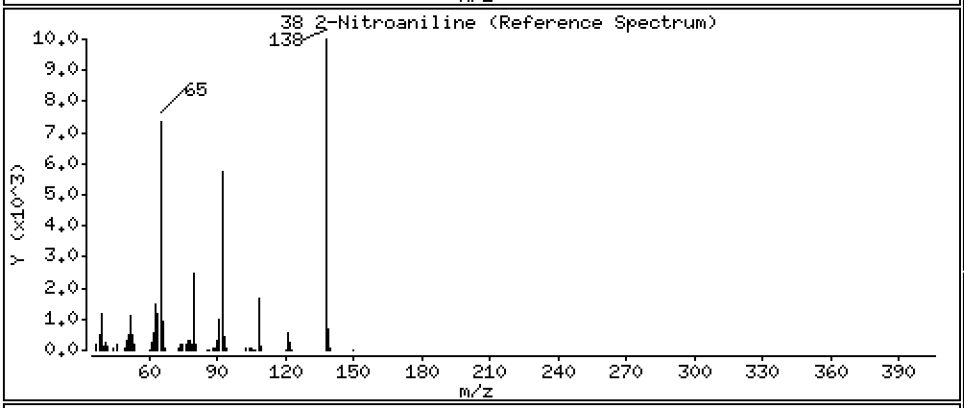
Concentration: 9.331 ug/mL

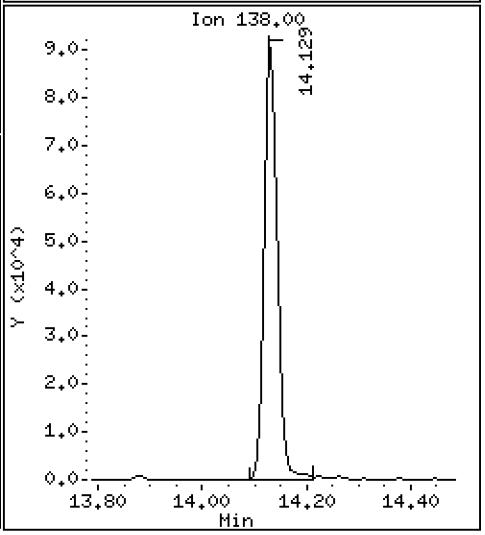


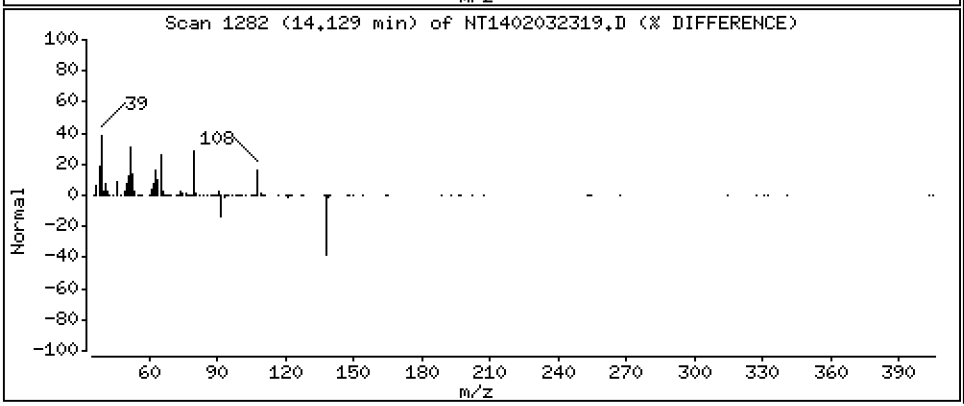












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

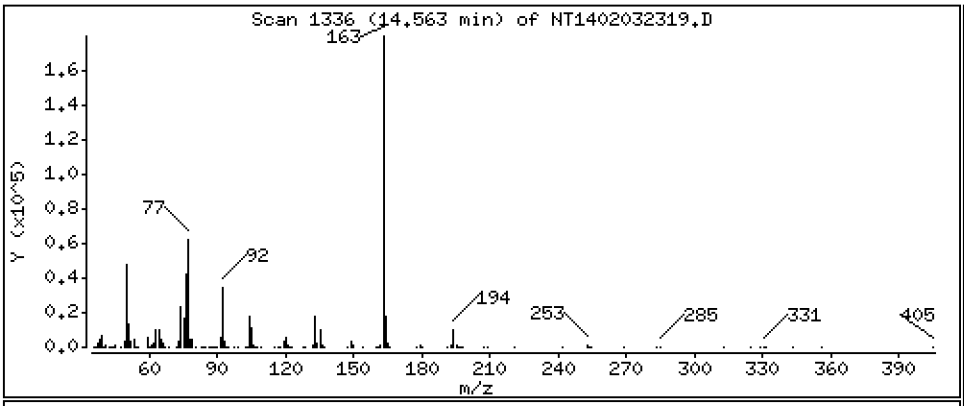
Operator: DSD

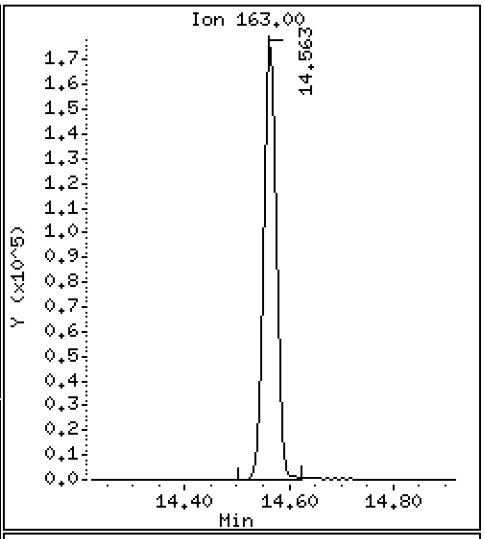
Column phase: ZB-5msi

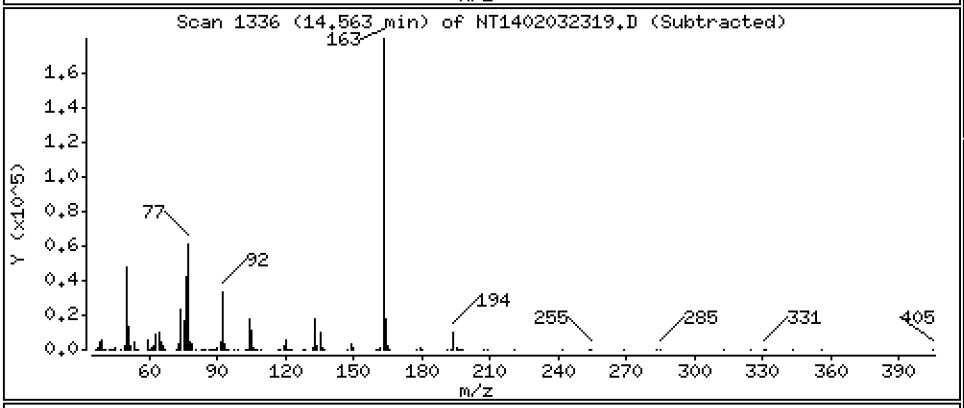
Column diameter: 0.25

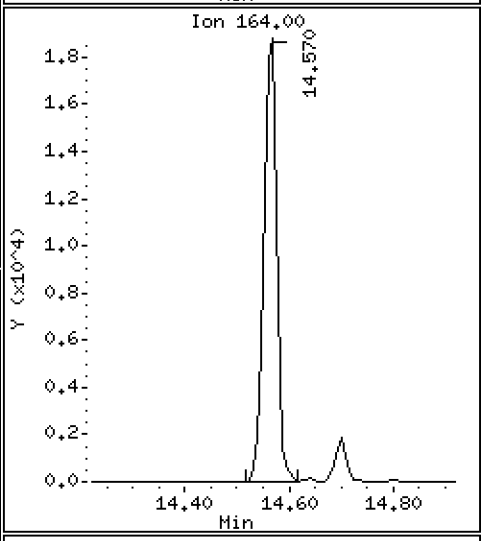
39 Dimethylphthalate

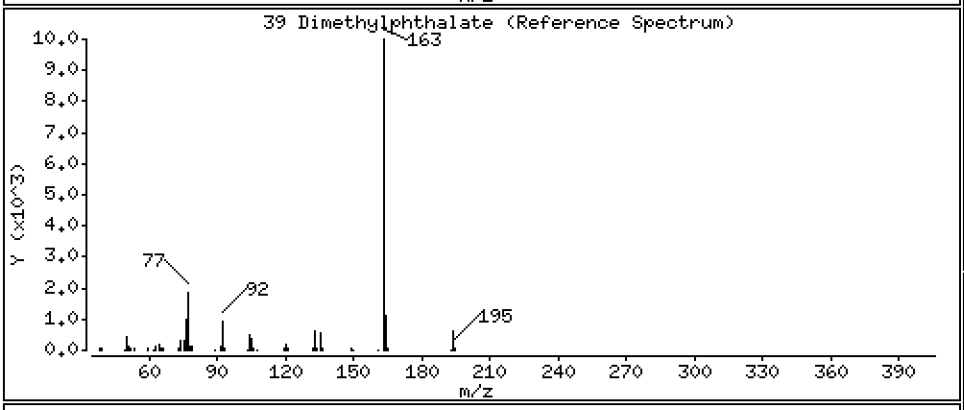
Concentration: 5.061 ug/mL

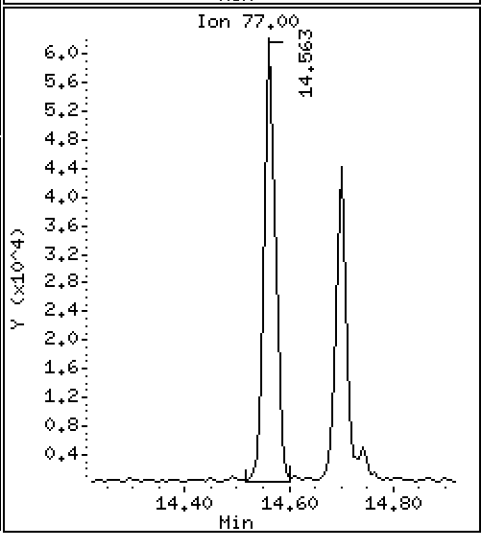


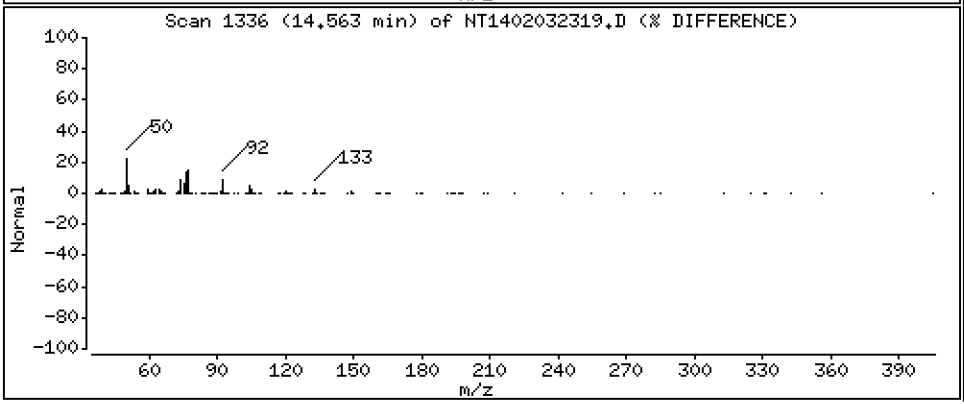












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

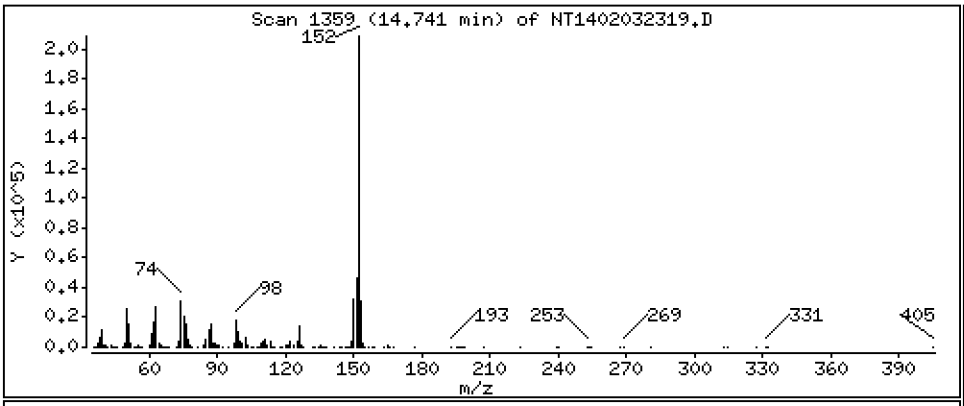
Operator: DSD

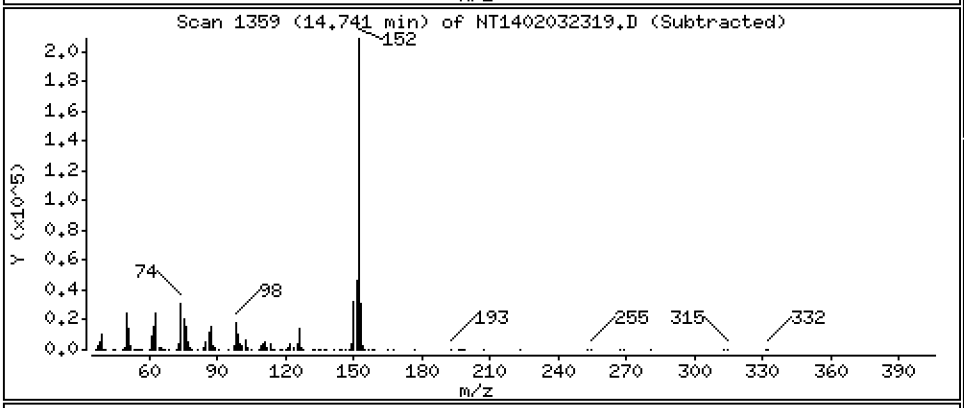
Column phase: ZB-5msi

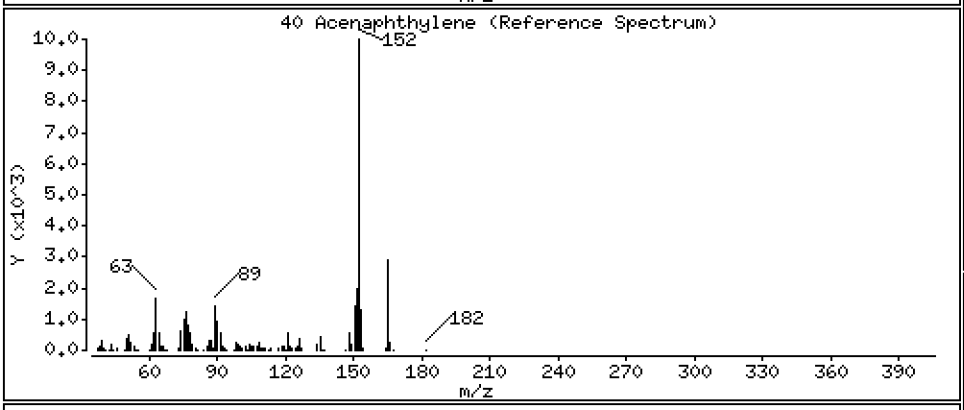
Column diameter: 0.25

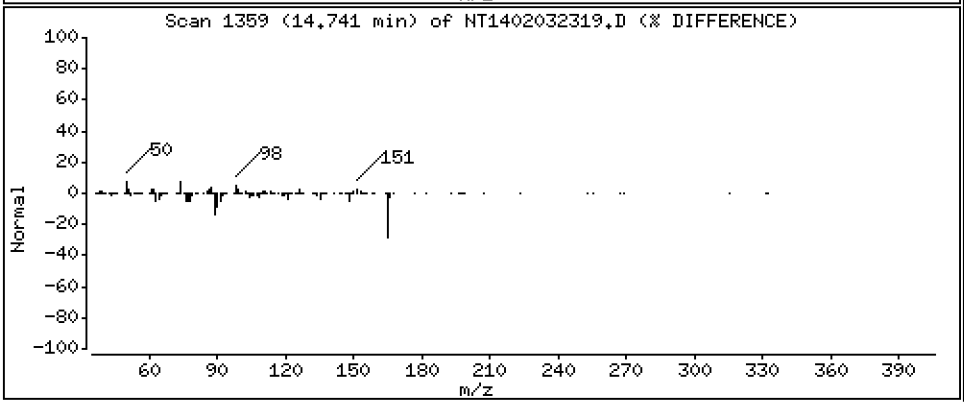
40 Acenaphthylene

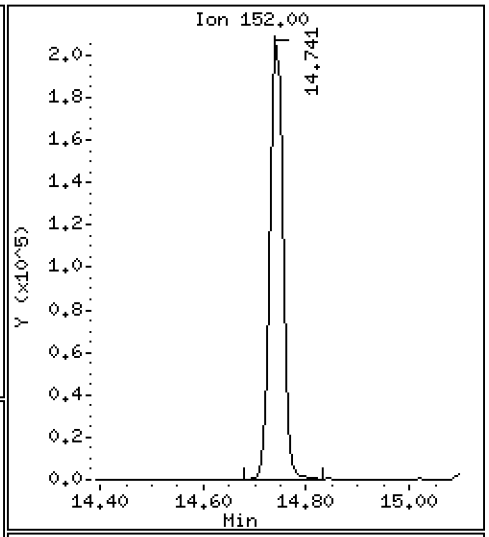
Concentration: 4.942 ug/mL

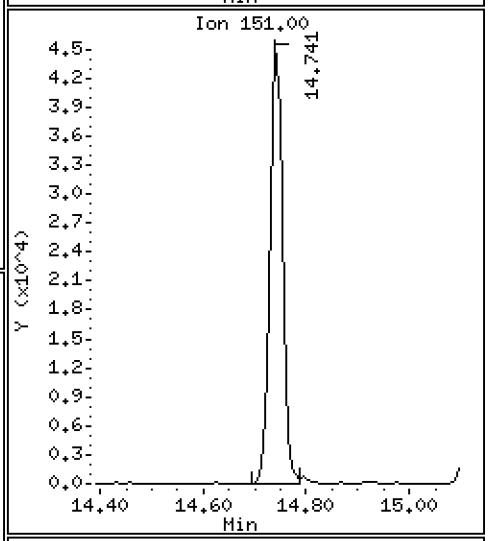


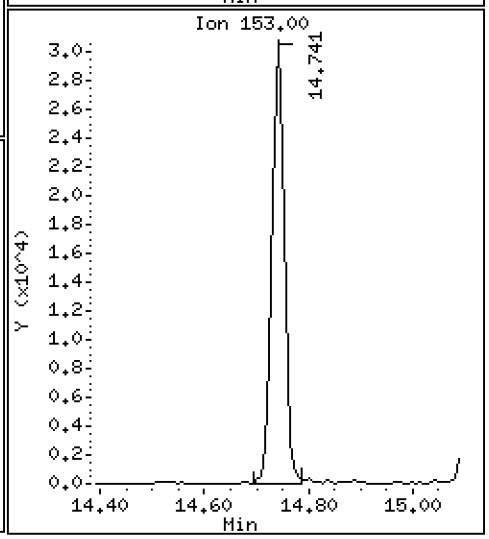












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

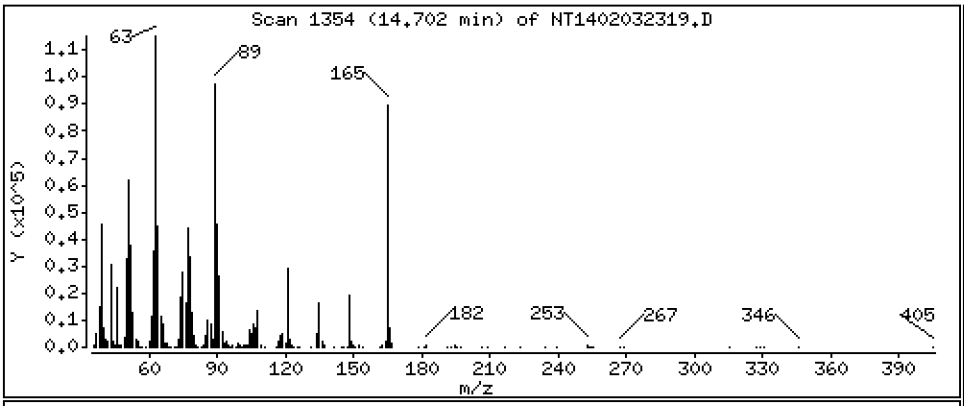
Operator: DSD

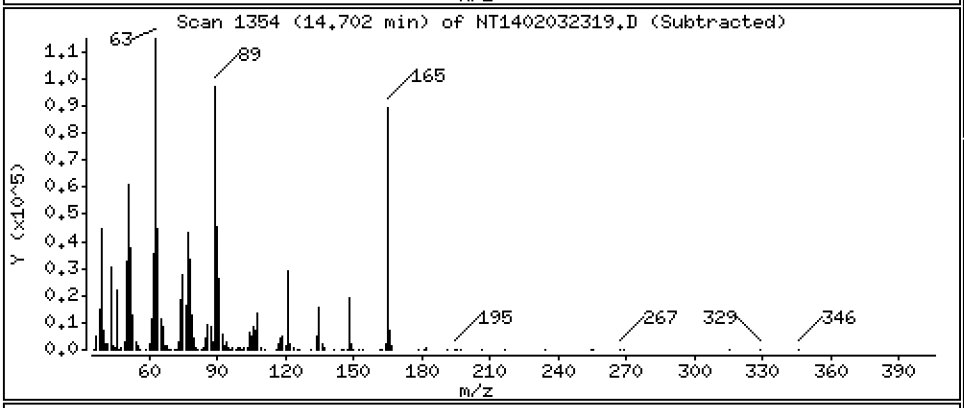
Column phase: ZB-5msi

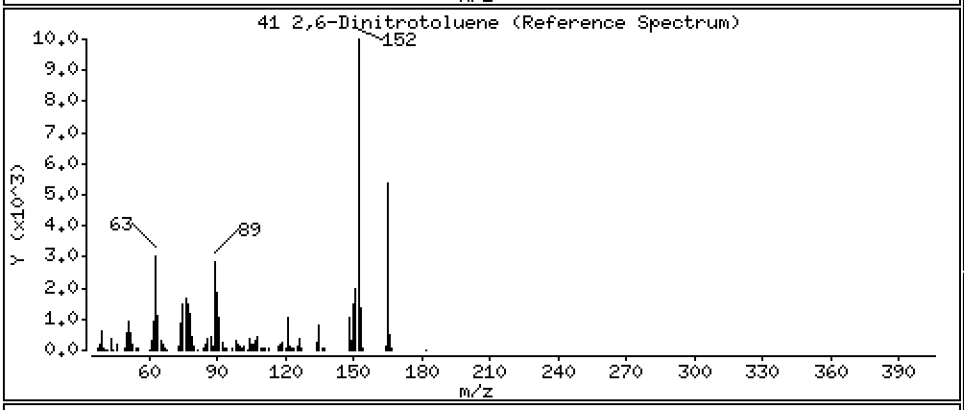
Column diameter: 0.25

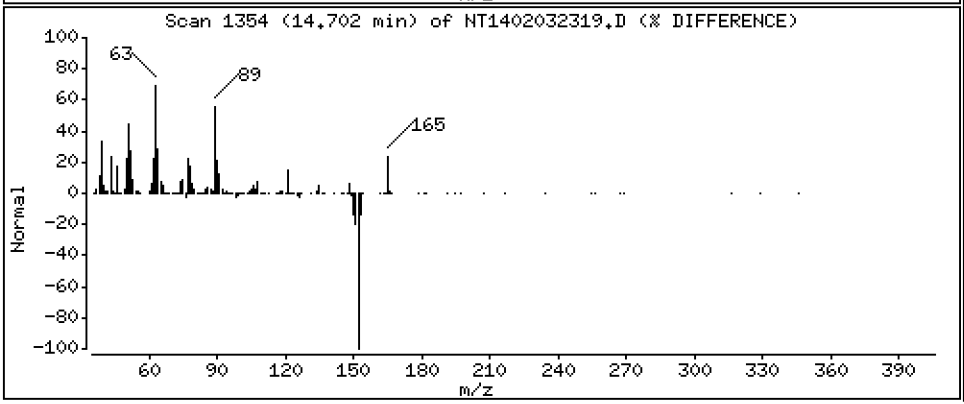
41 2,6-Dinitrotoluene

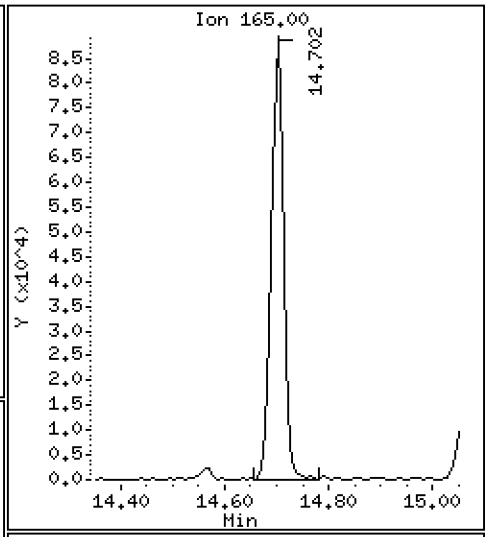
Concentration: 10.29 ug/mL

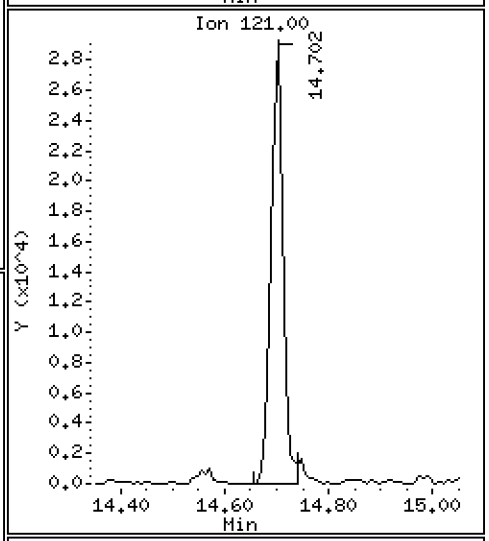


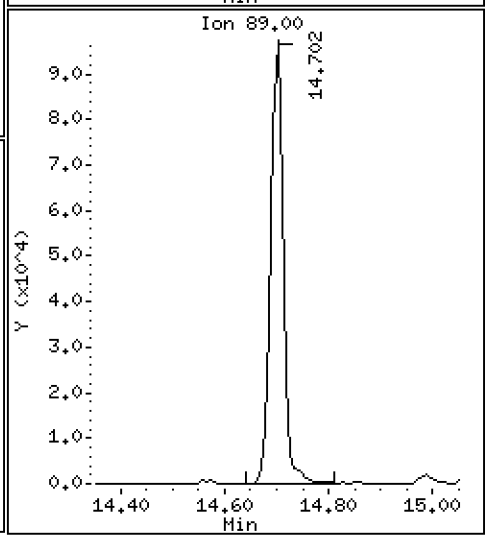












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

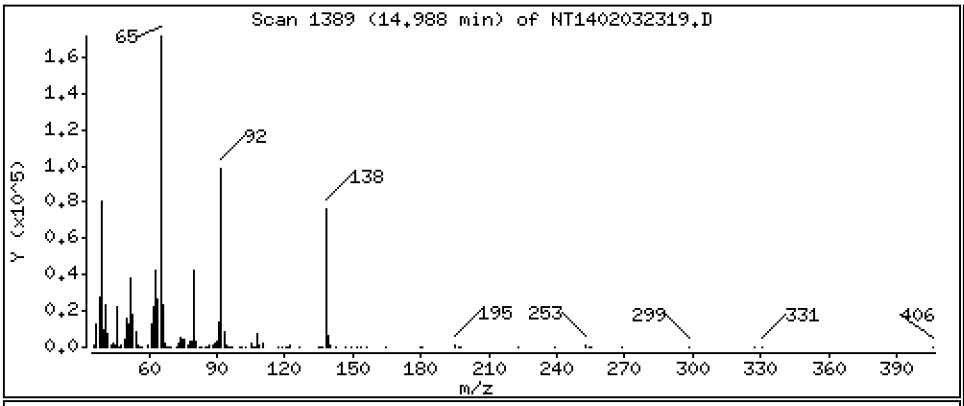
Operator: DSD

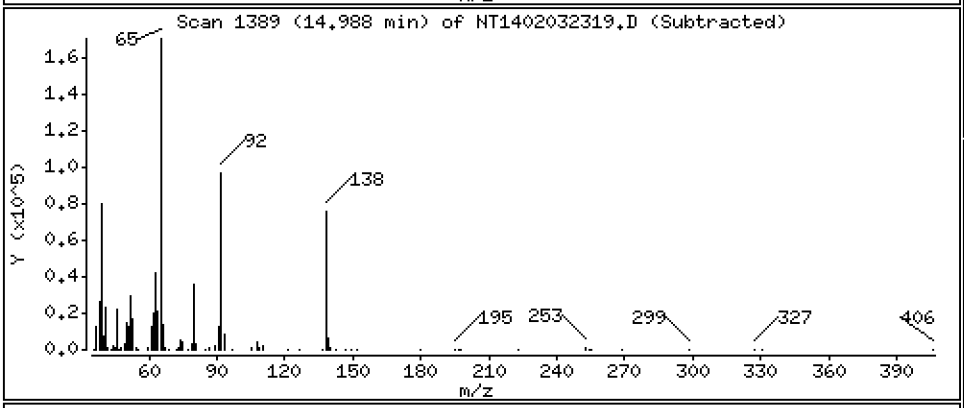
Column phase: ZB-5msi

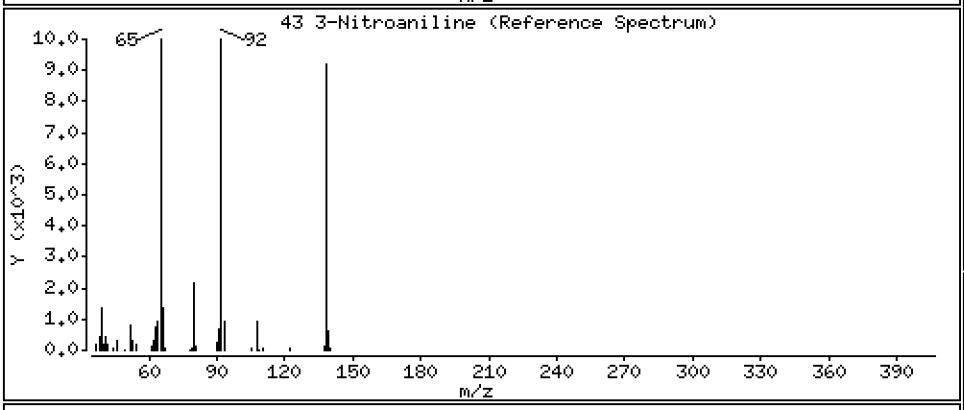
Column diameter: 0.25

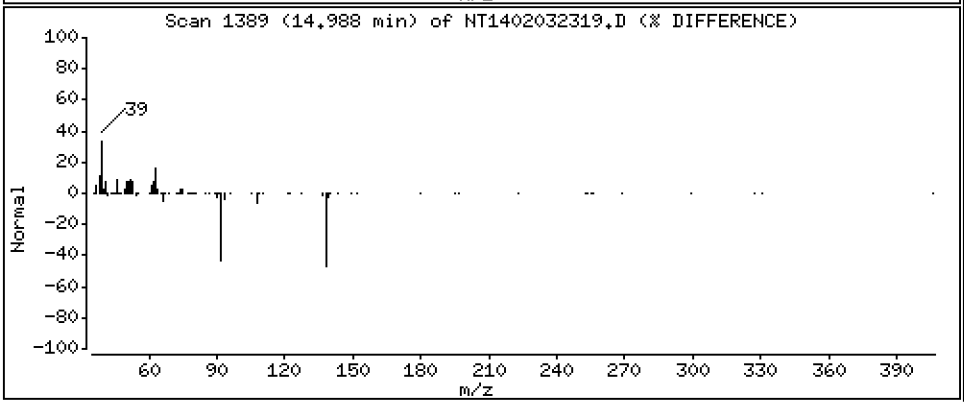
43 3-Nitroaniline

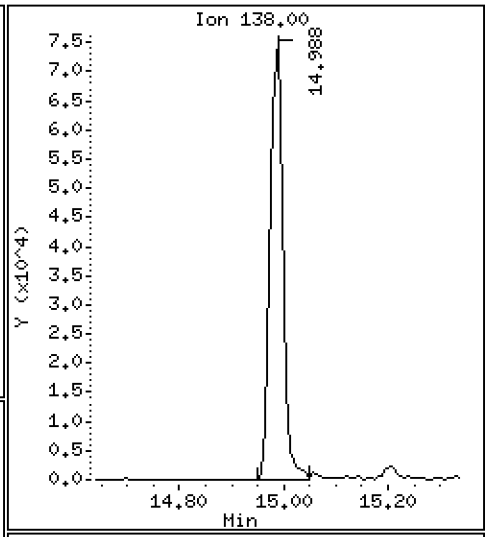
Concentration: 9.506 ug/mL

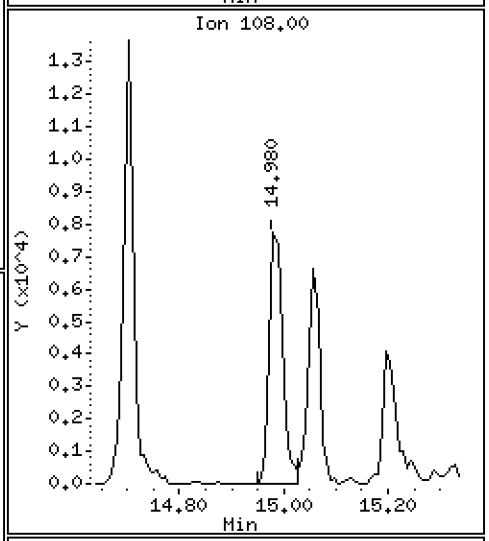


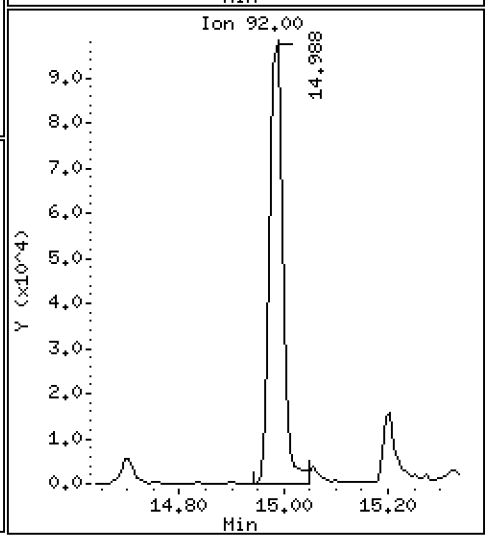












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

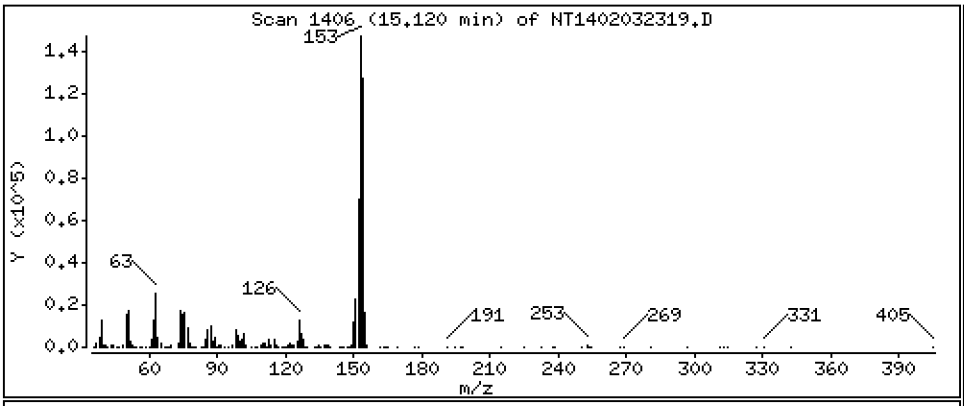
Operator: DSD

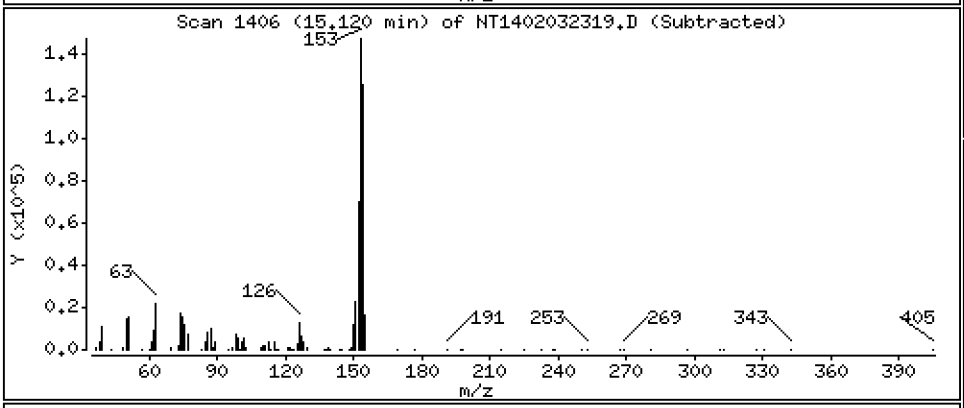
Column phase: ZB-5msi

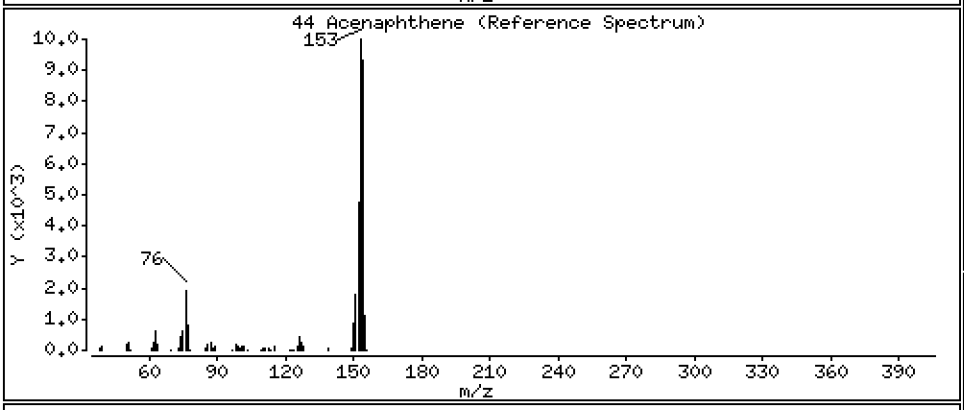
Column diameter: 0.25

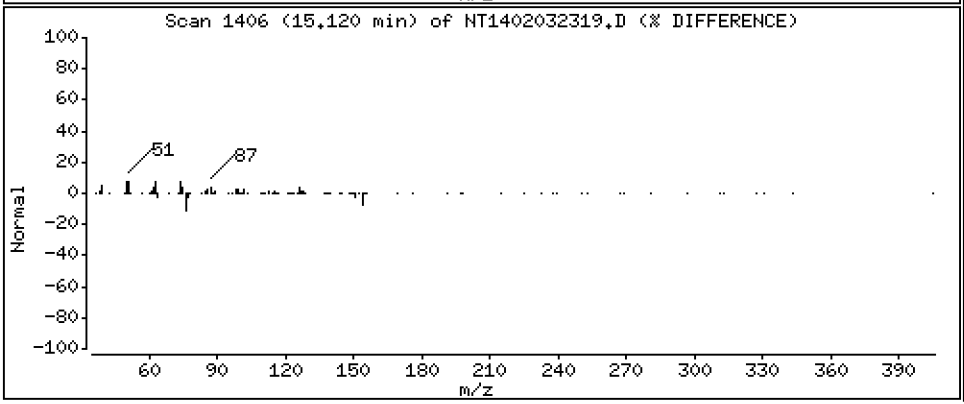
44 Acenaphthene

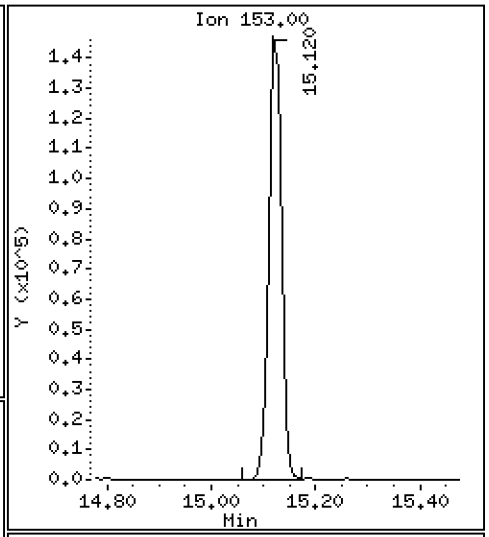
Concentration: 4.946 ug/mL

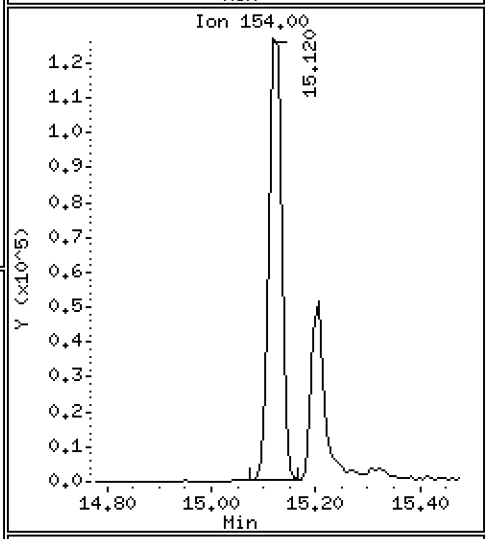


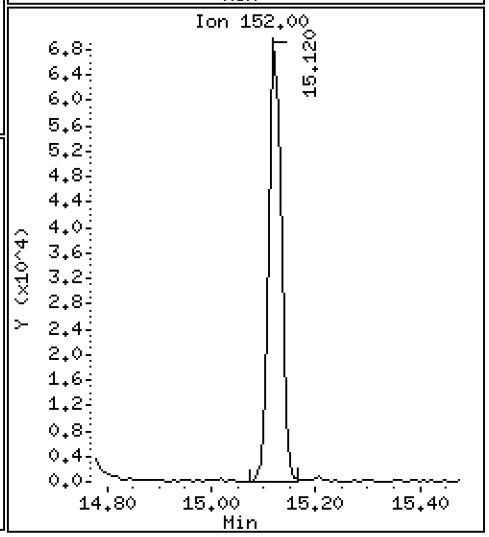












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

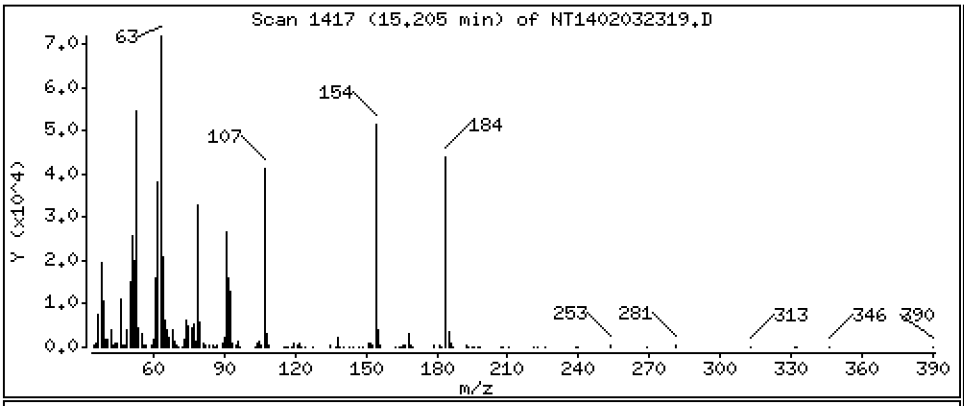
Operator: DSD

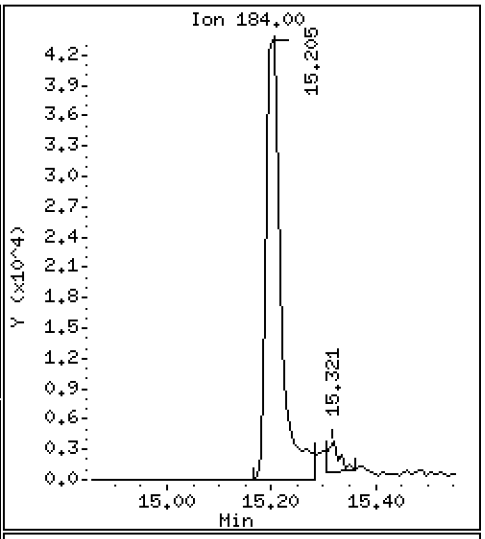
Column phase: ZB-5msi

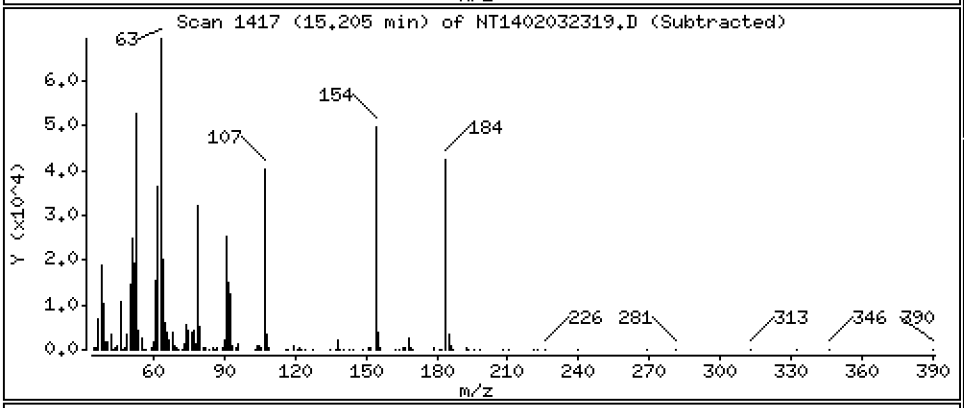
Column diameter: 0.25

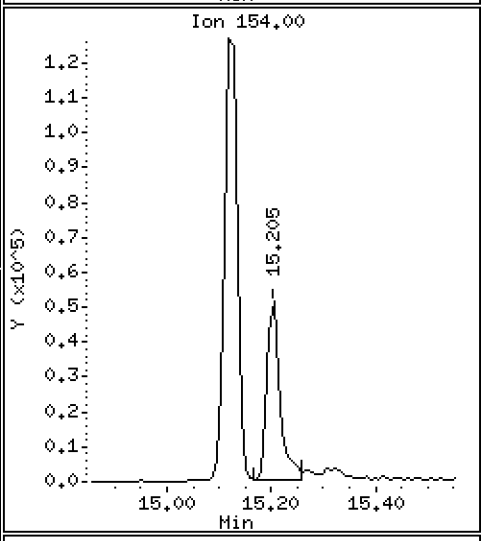
45 2,4-Dinitrophenol

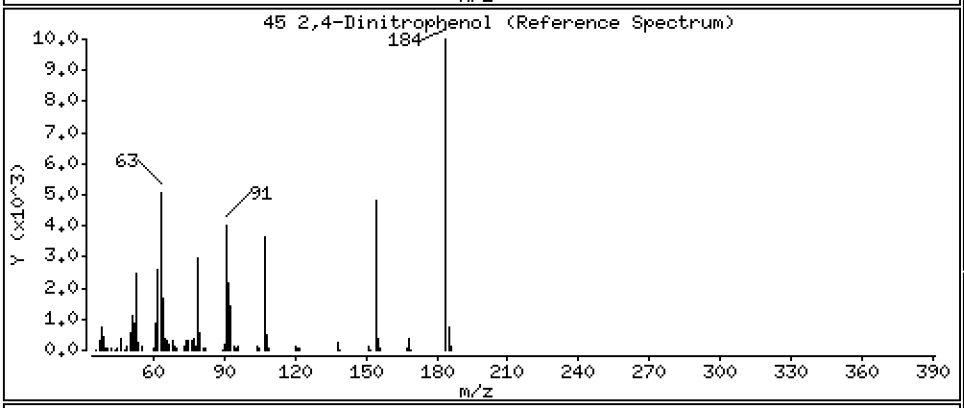
Concentration: 6.329 ug/mL

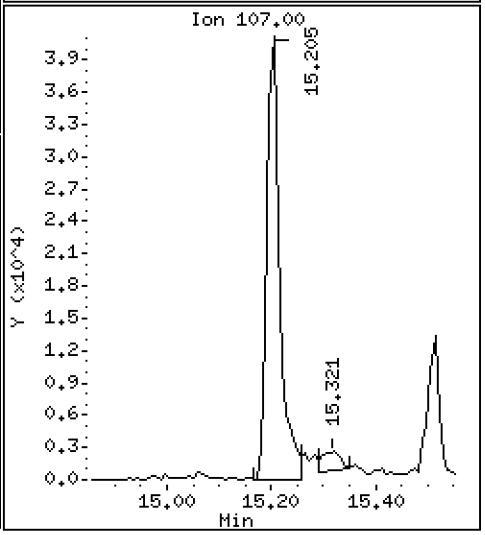


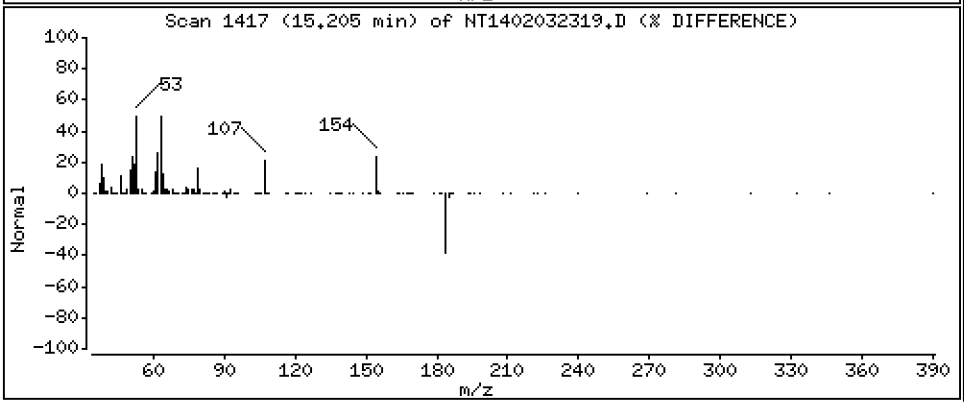












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

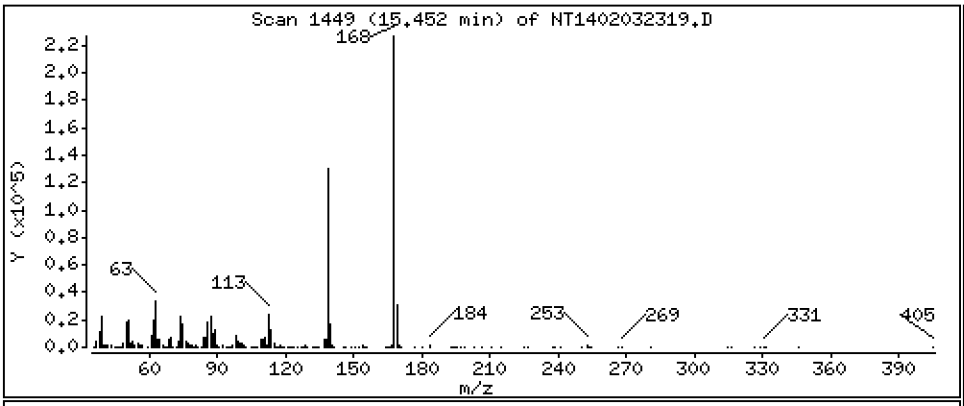
Operator: DSD

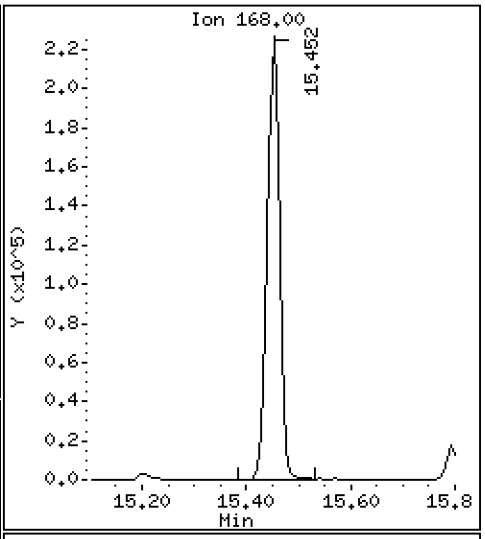
Column phase: ZB-5msi

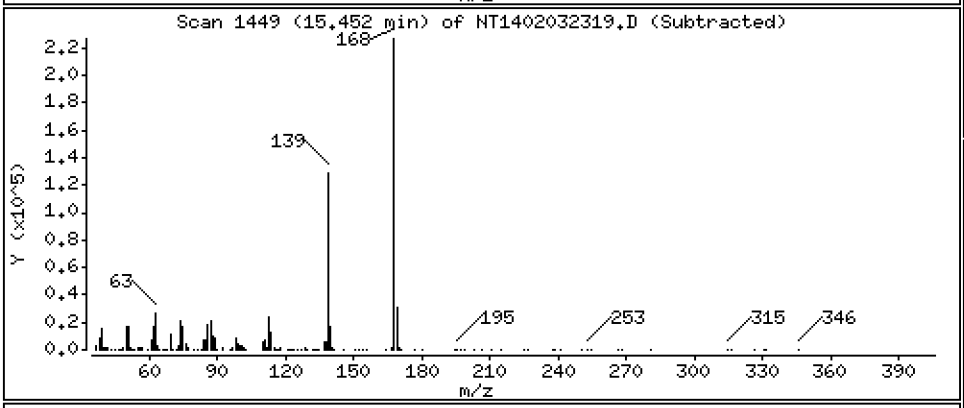
Column diameter: 0.25

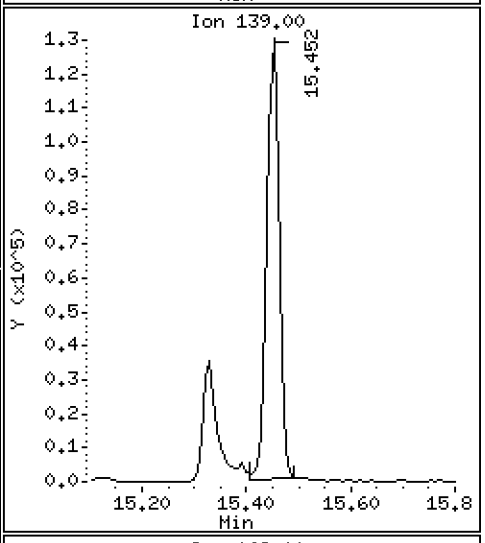
46 Dibenzofuran

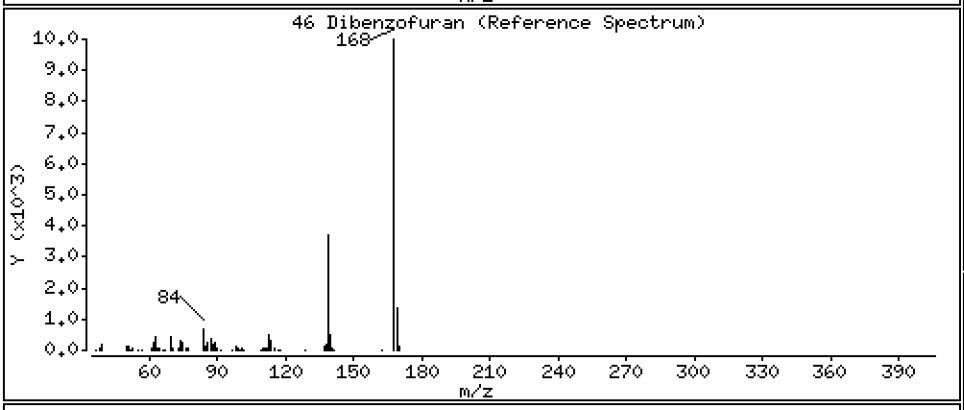
Concentration: 5.170 ug/mL

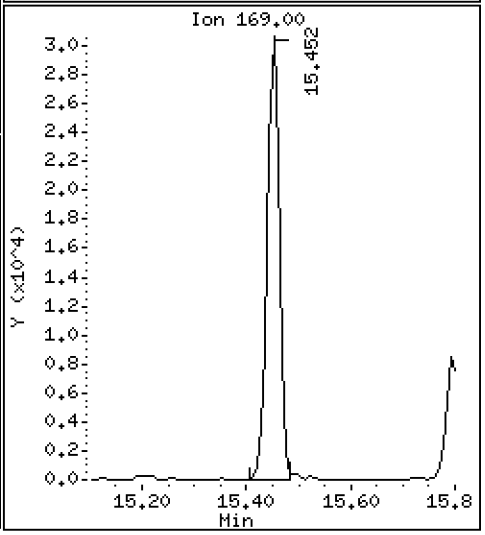


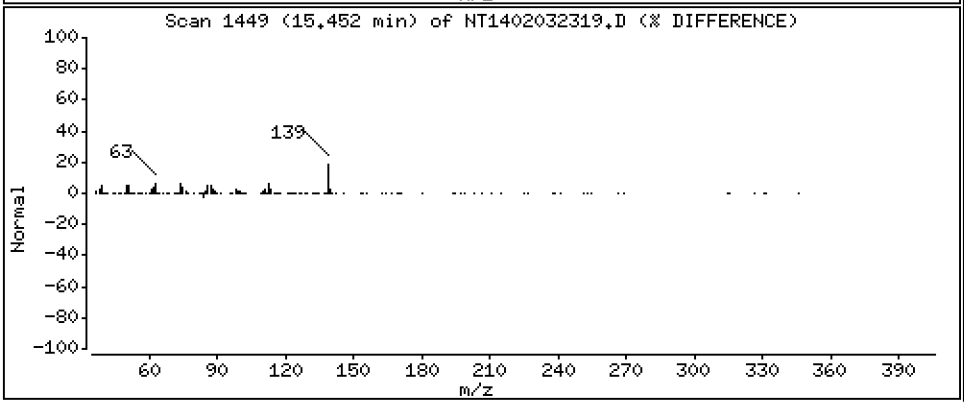












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

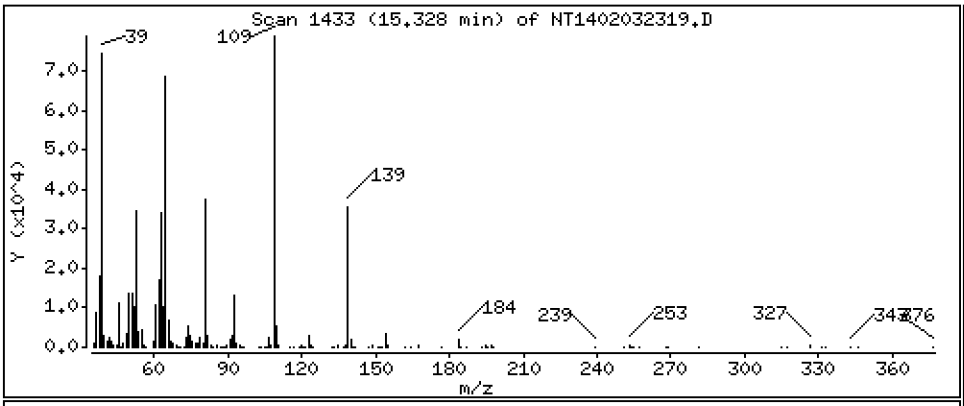
Operator: DSD

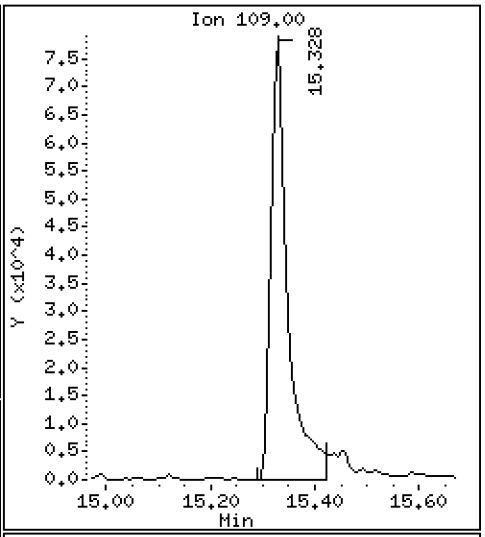
Column phase: ZB-5msi

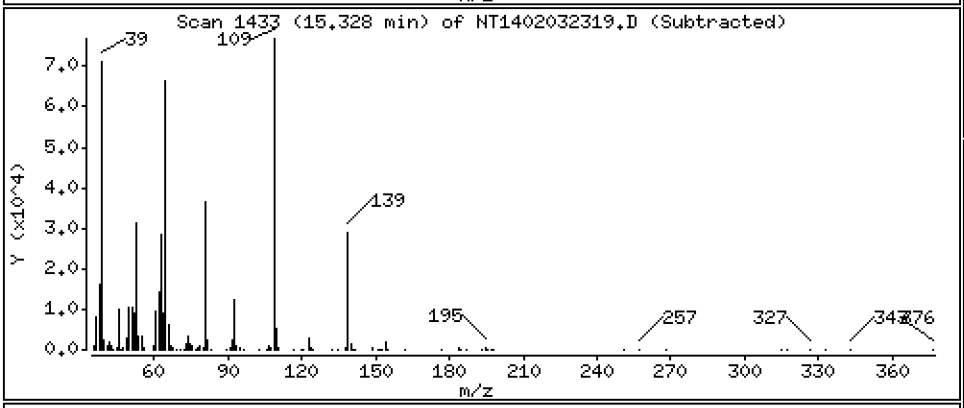
Column diameter: 0.25

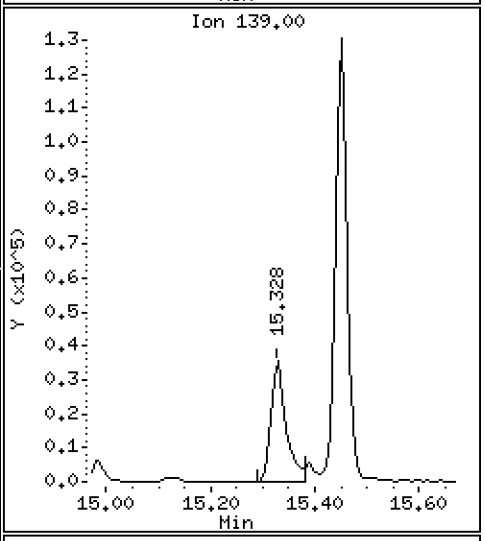
47 4-Nitrophenol

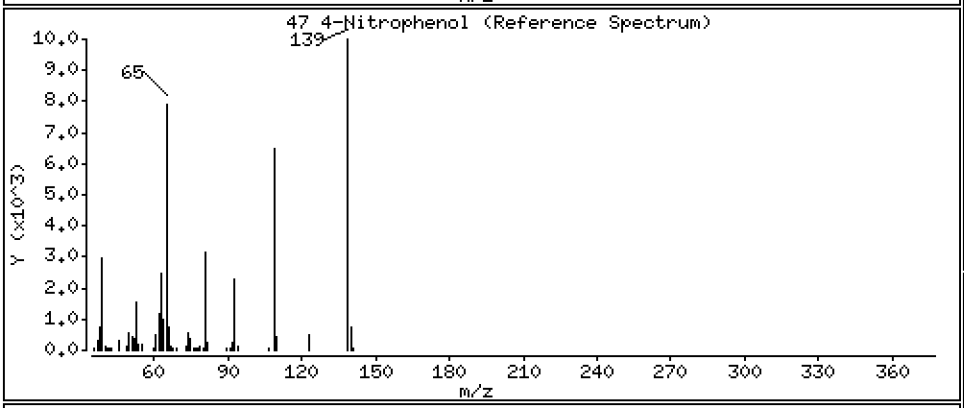
Concentration: 6.527 ug/mL

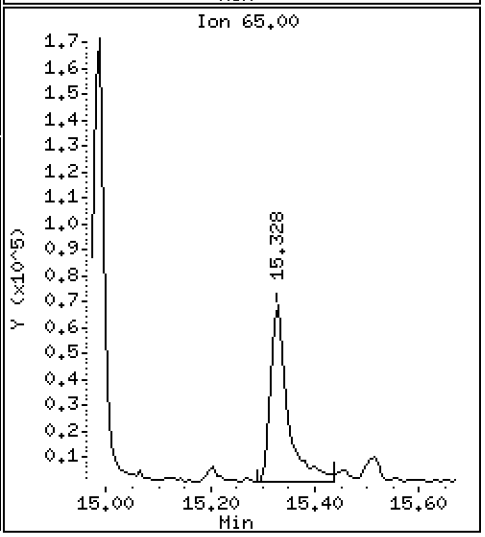


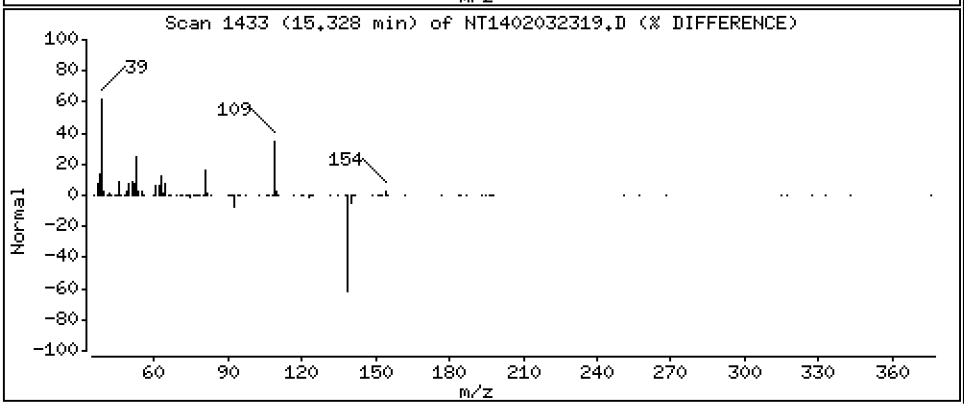












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

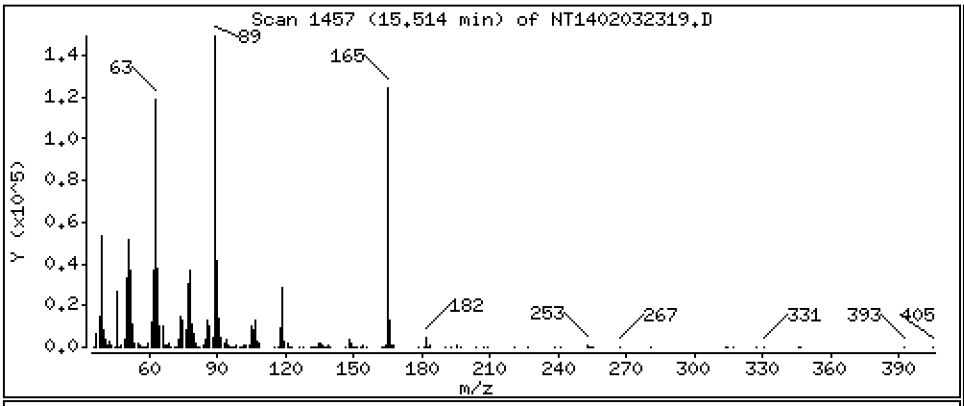
Operator: DSD

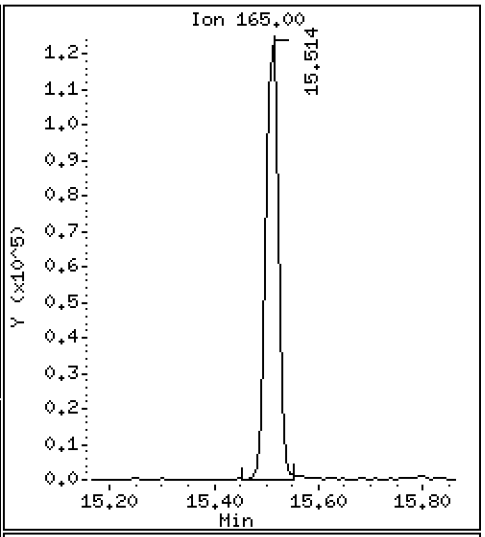
Column phase: ZB-5msi

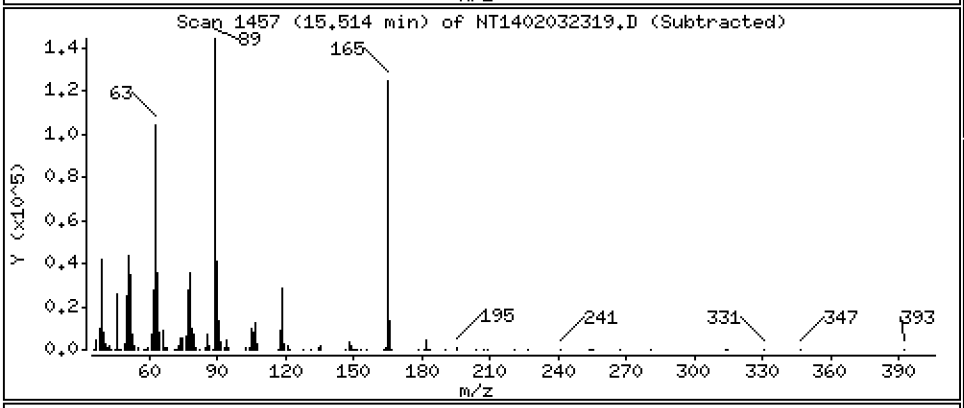
Column diameter: 0.25

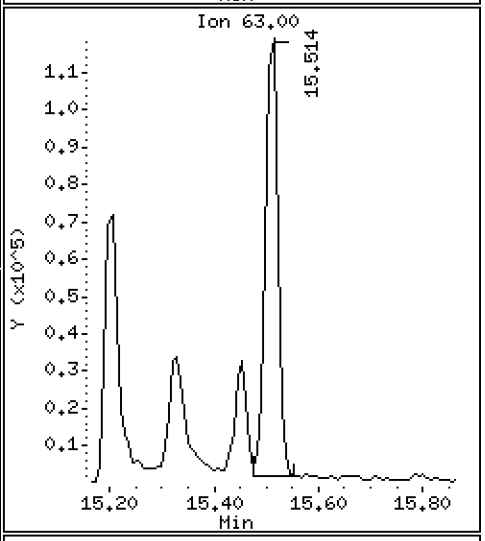
48 2,4-Dinitrotoluene

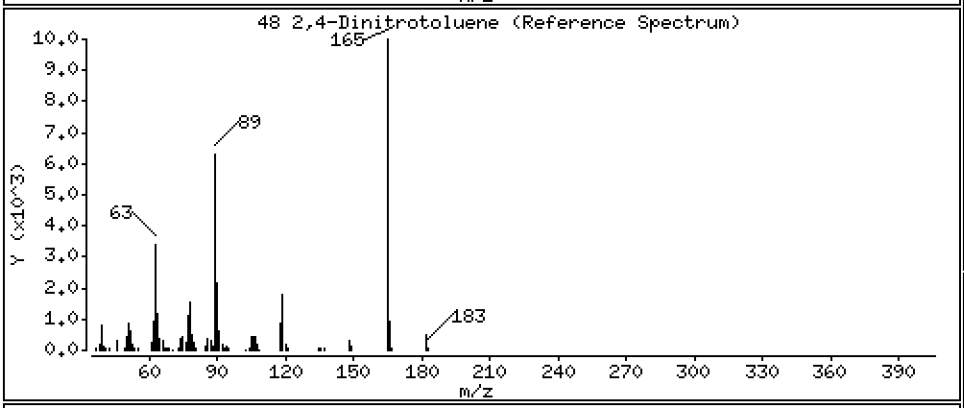
Concentration: 10.69 ug/mL

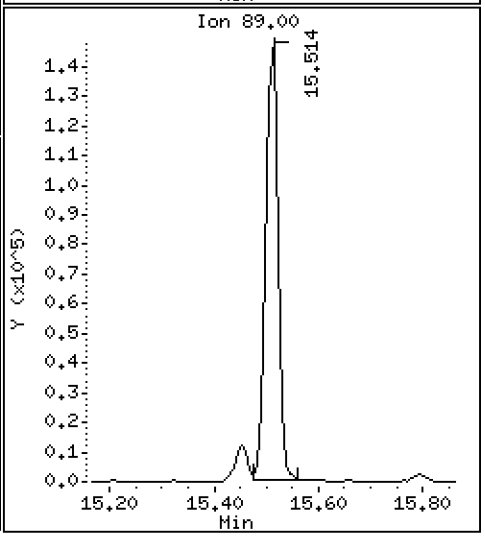


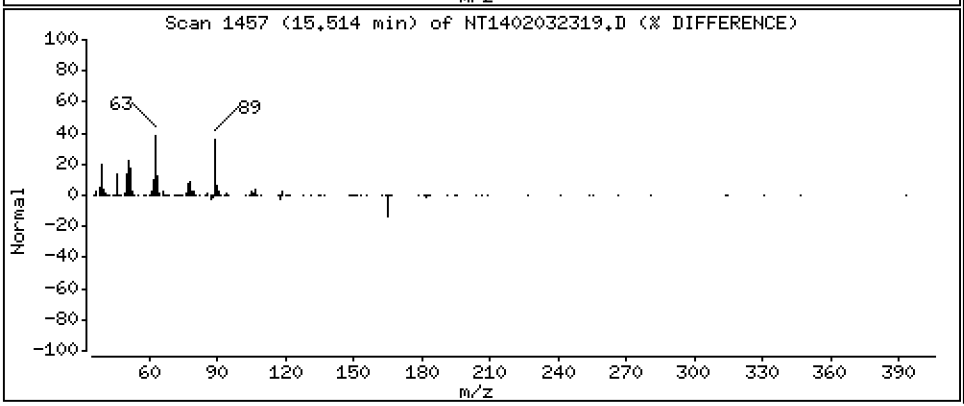












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

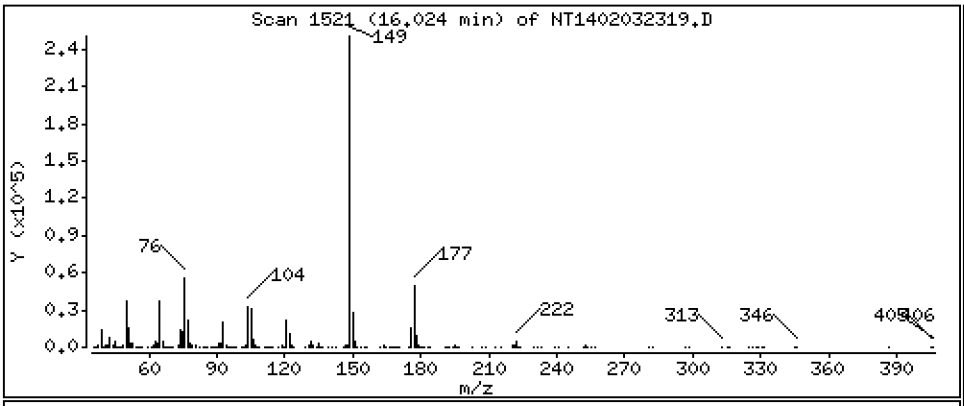
Operator: DSD

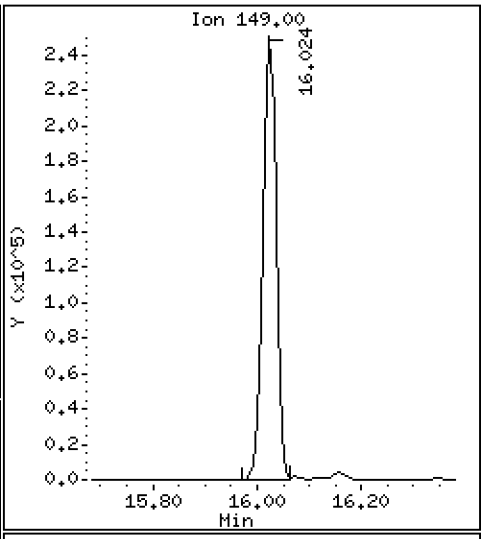
Column phase: ZB-5msi

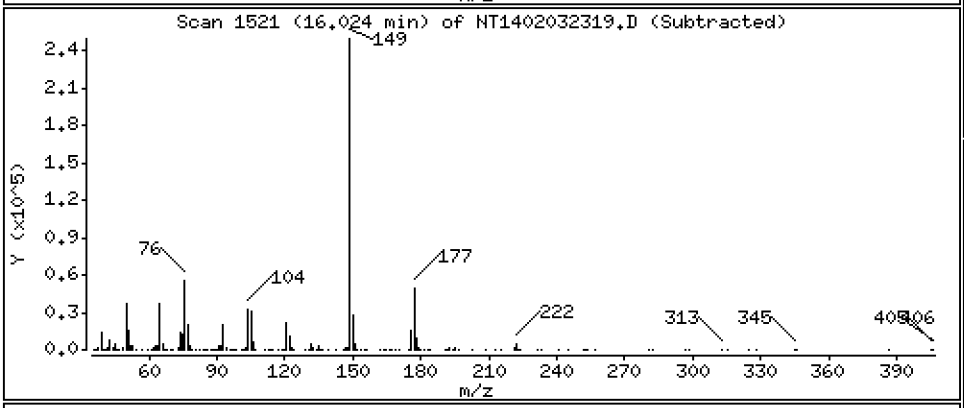
Column diameter: 0.25

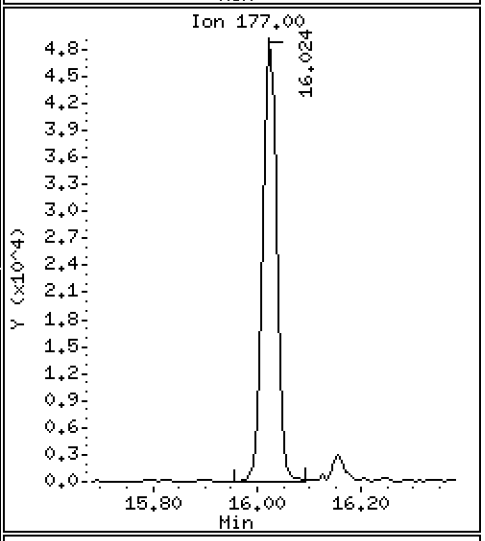
50 Diethylphthalate

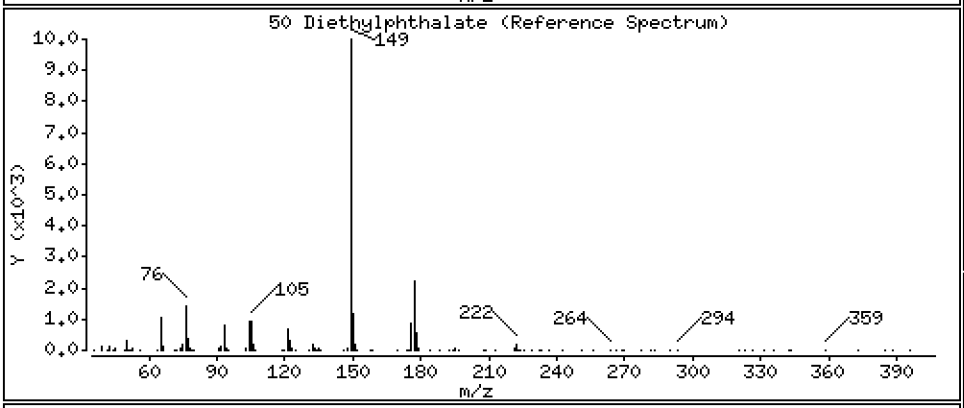
Concentration: 5.017 ug/mL

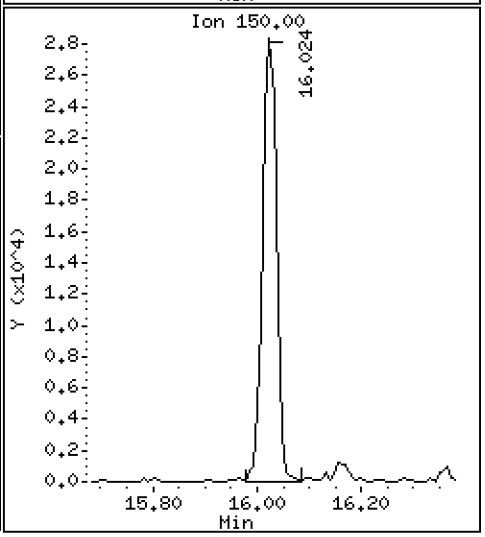


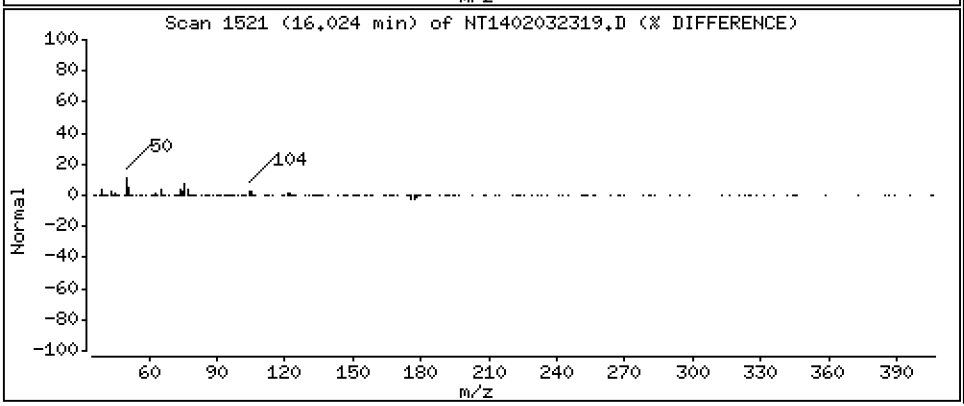












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

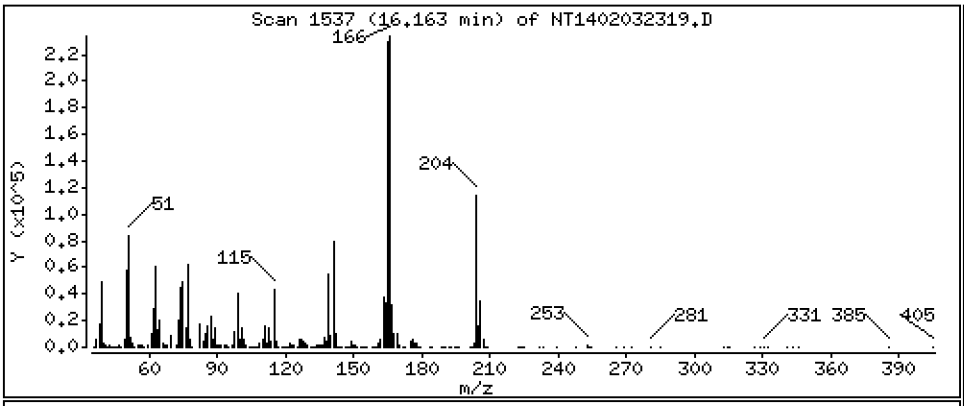
Operator: DSD

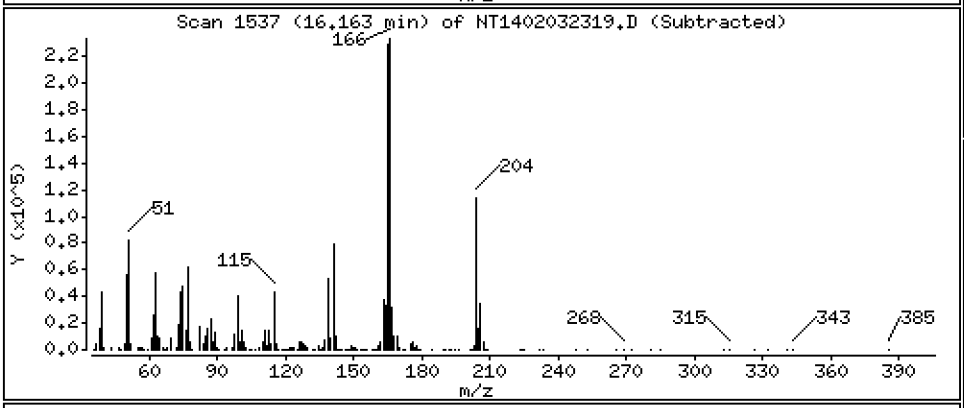
Column phase: ZB-5msi

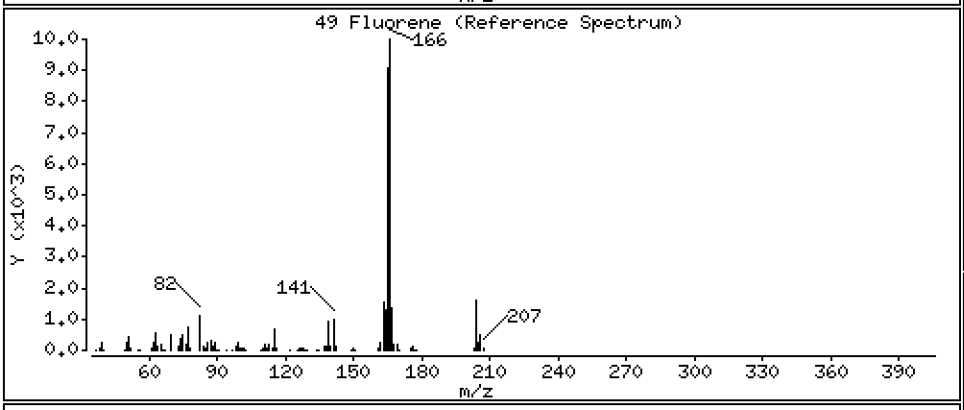
Column diameter: 0.25

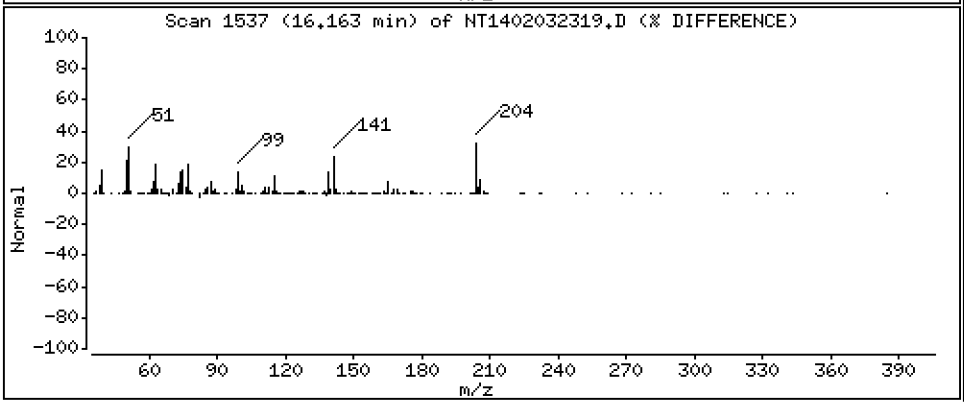
49 Fluorene

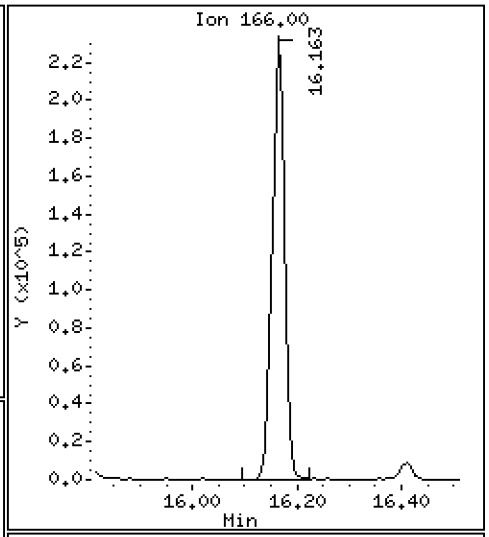
Concentration: 4.800 ug/mL

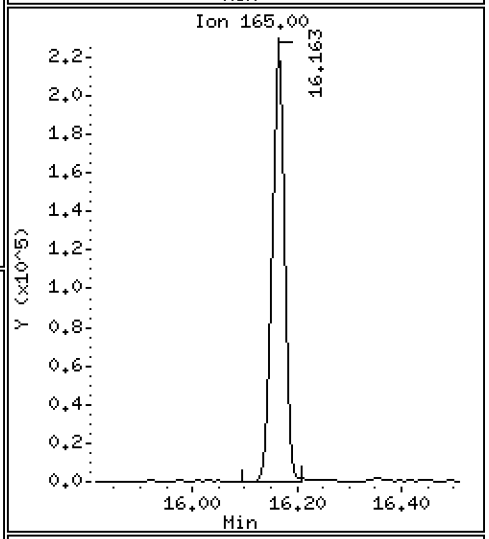


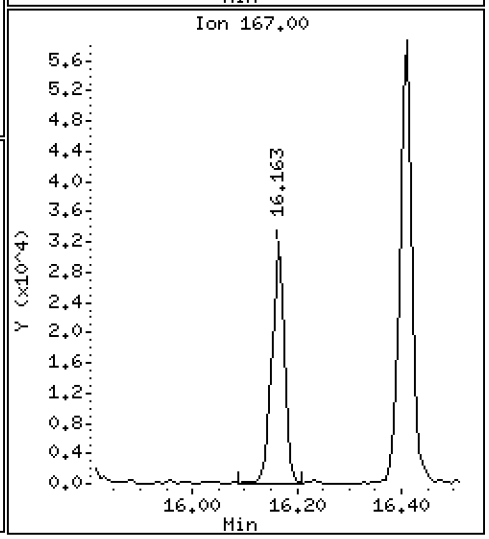












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

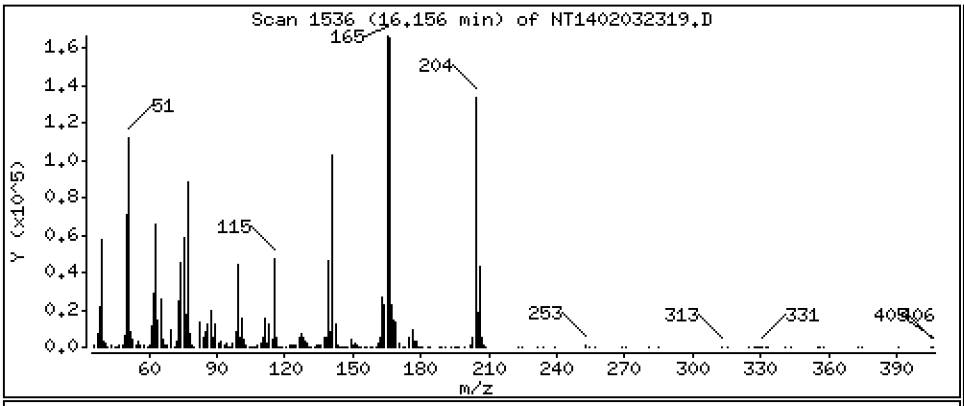
Operator: DSD

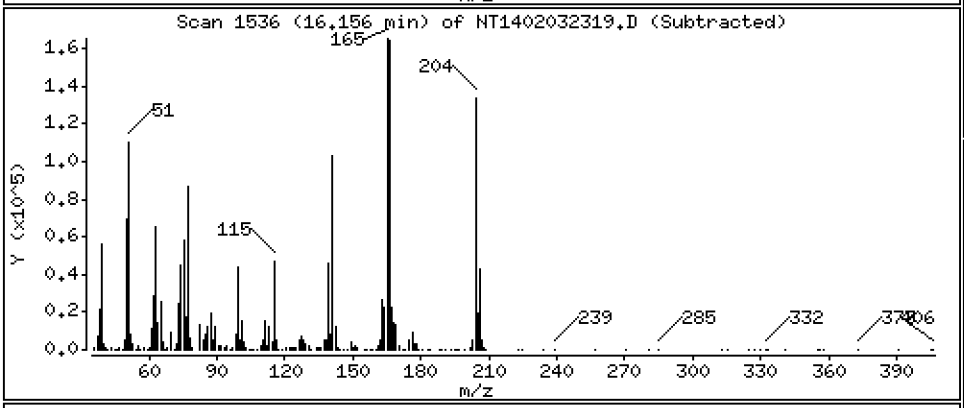
Column phase: ZB-5msi

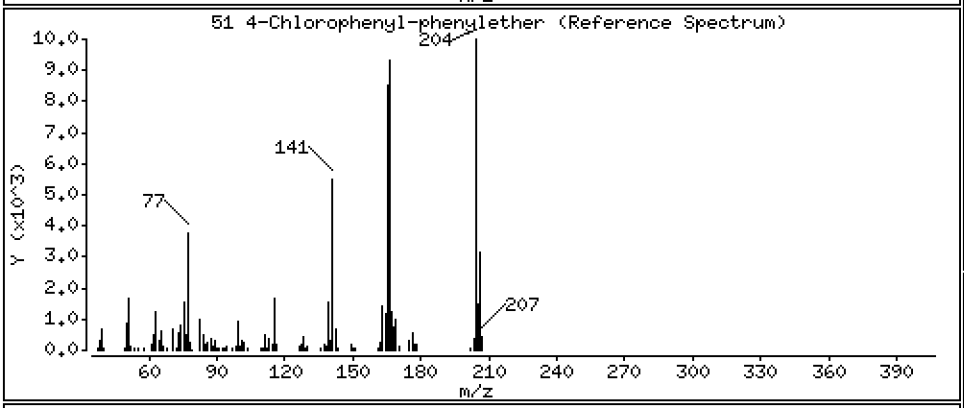
Column diameter: 0.25

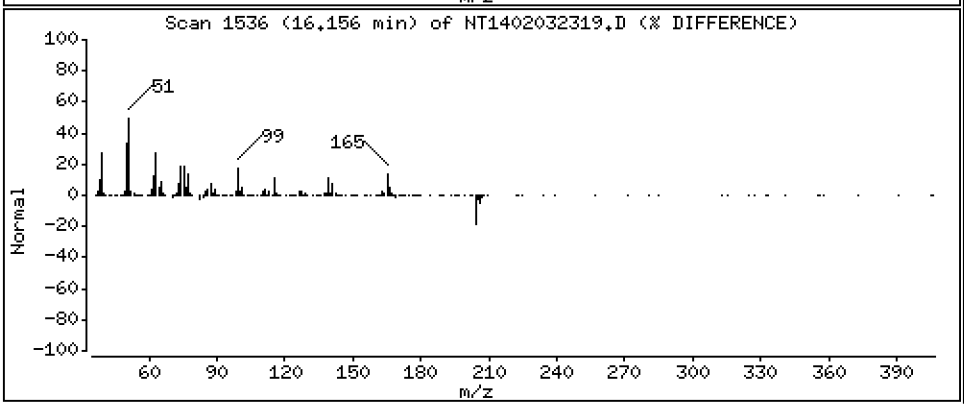
51 4-Chlorophenyl-phenylether

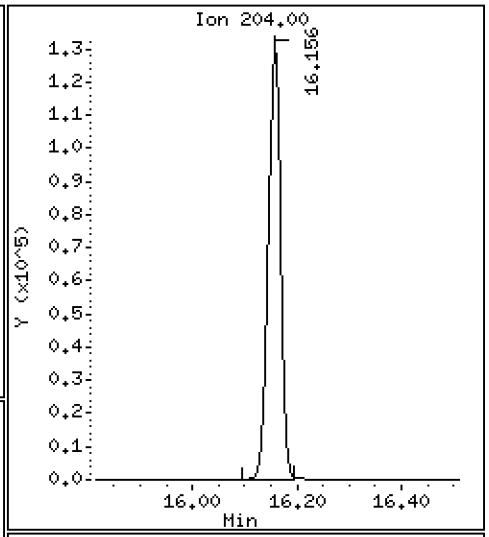
Concentration: 4.965 ug/mL

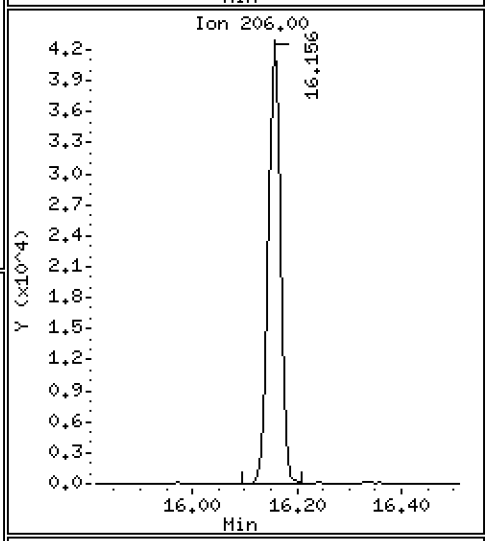


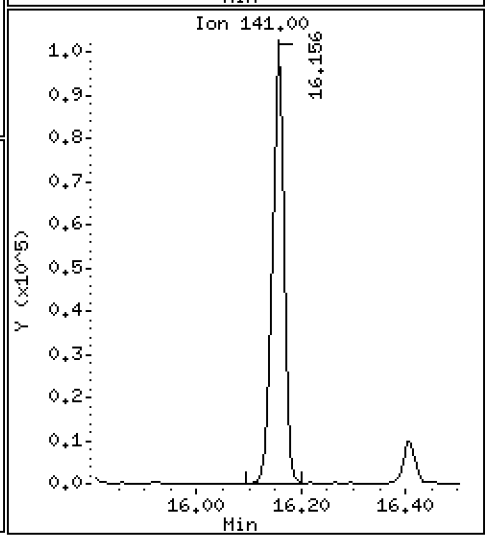












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

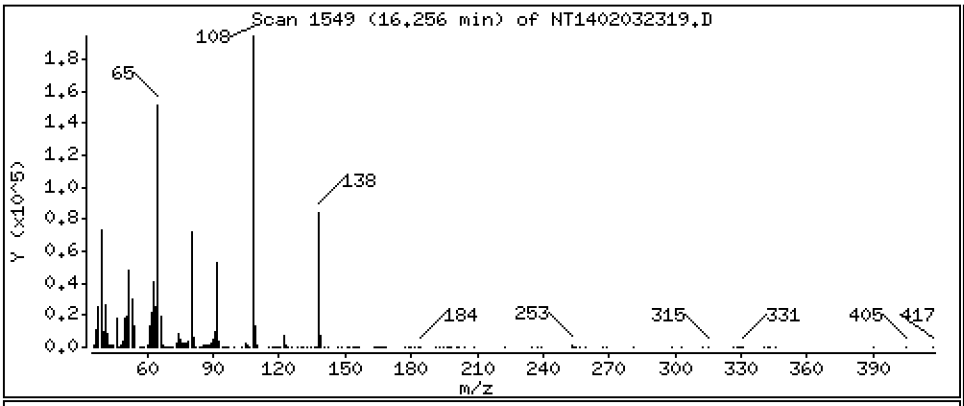
Operator: DSD

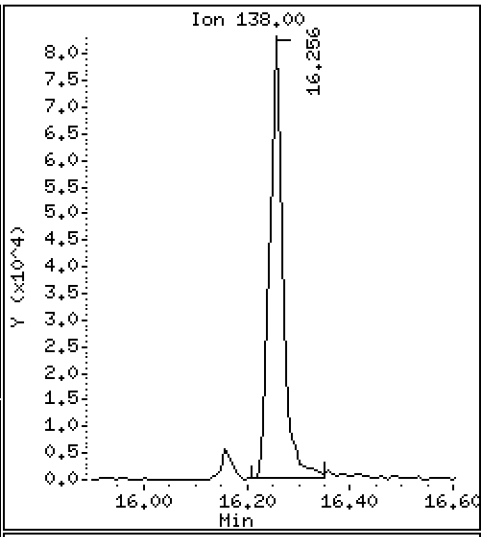
Column phase: ZB-5msi

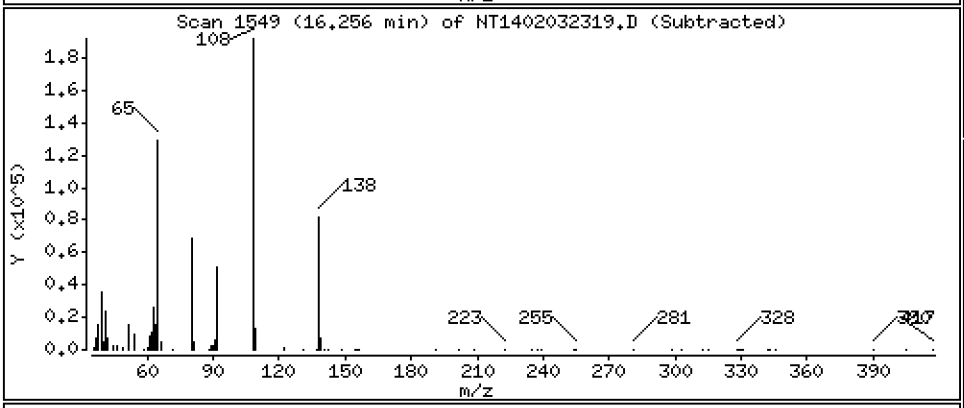
Column diameter: 0.25

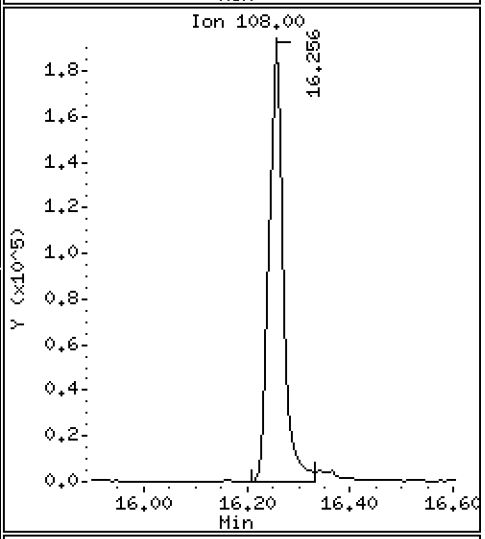
52 4-Nitroaniline

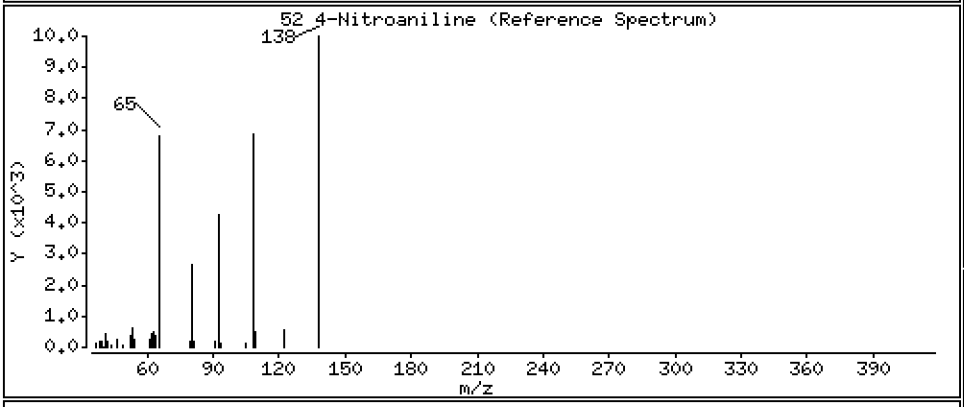
Concentration: 9.585 ug/mL

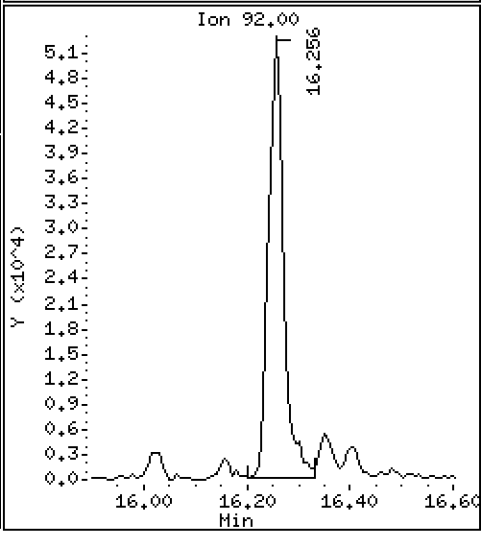


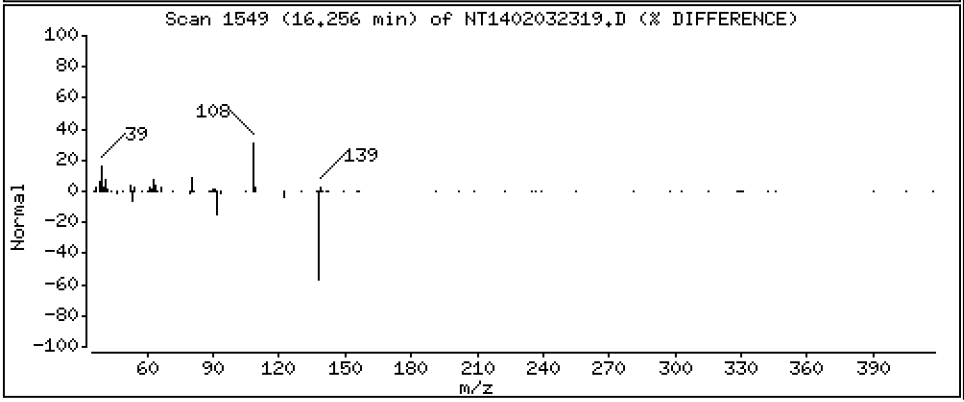












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

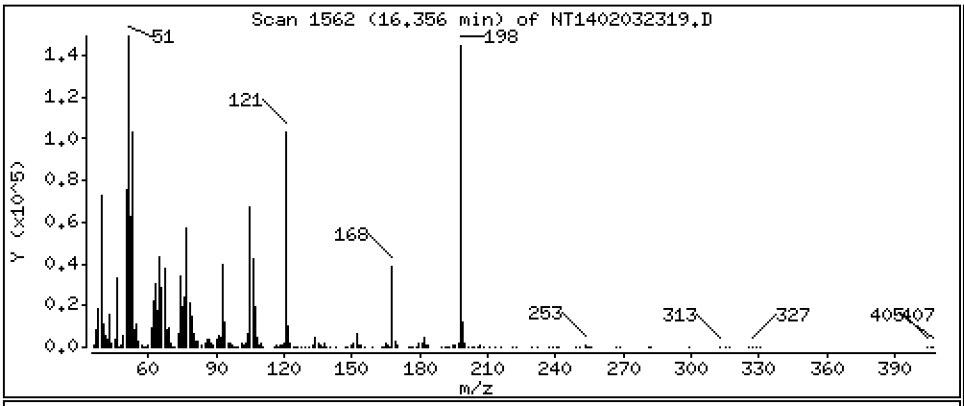
Operator: DSD

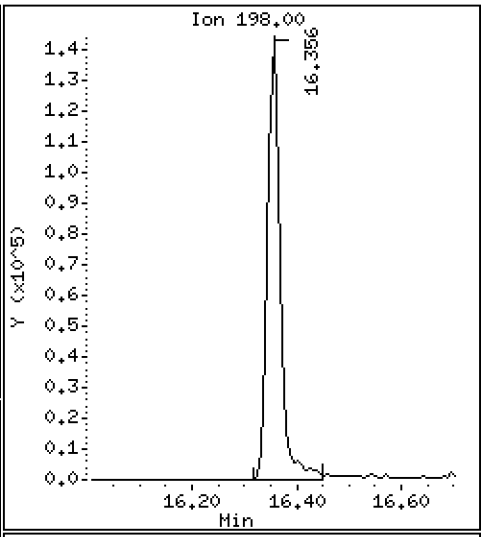
Column phase: ZB-5msi

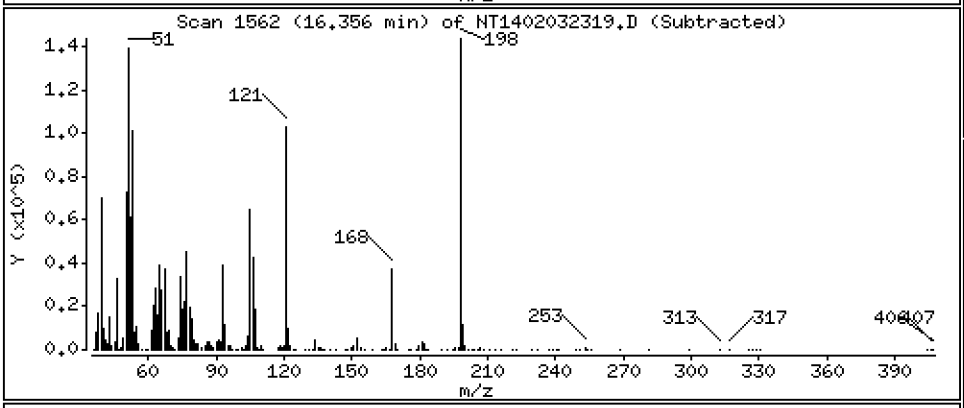
Column diameter: 0.25

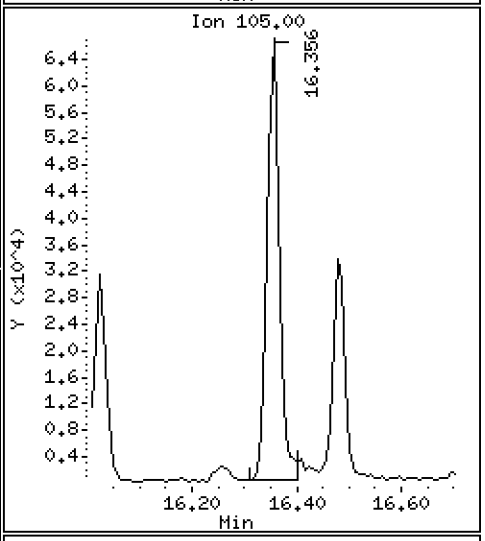
53 4,6-Dinitro-2-methylphenol

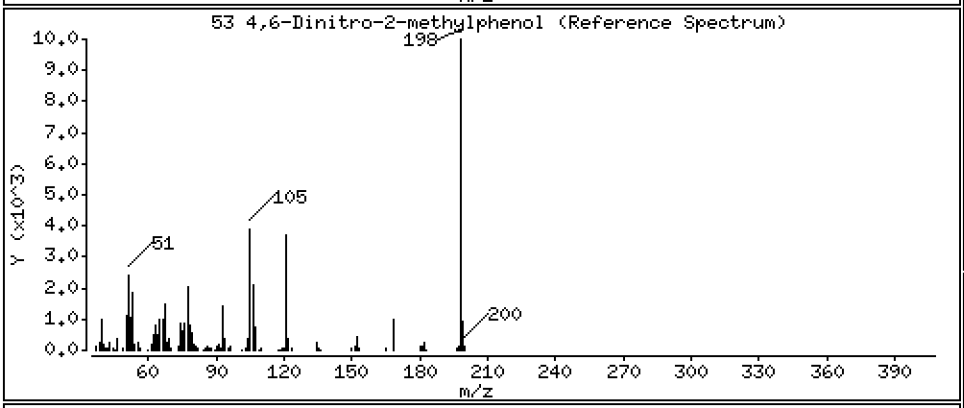
Concentration: 12.78 ug/mL

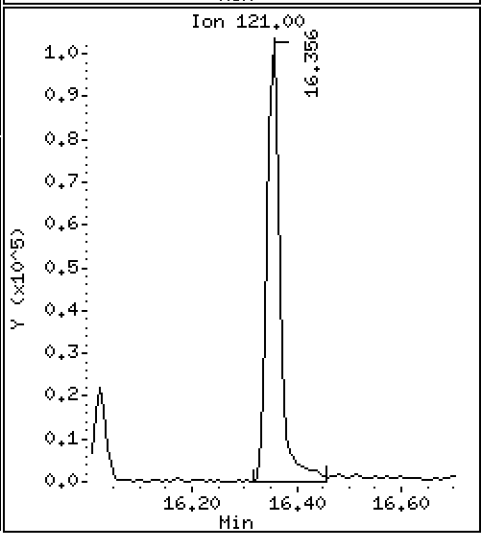


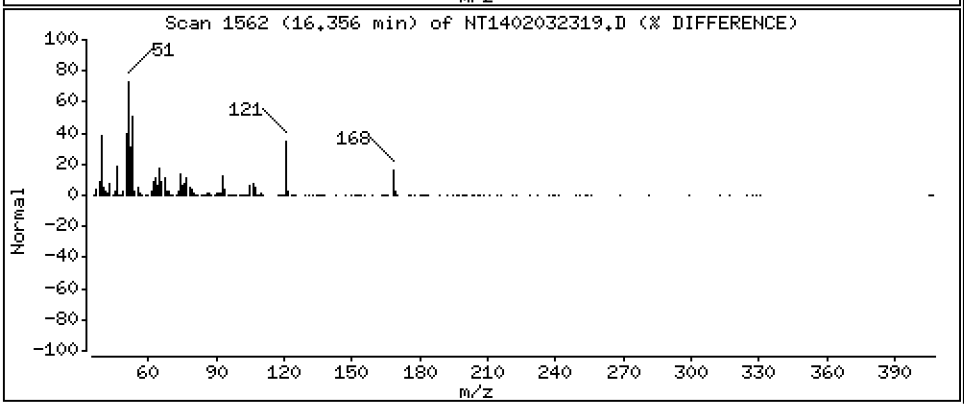












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

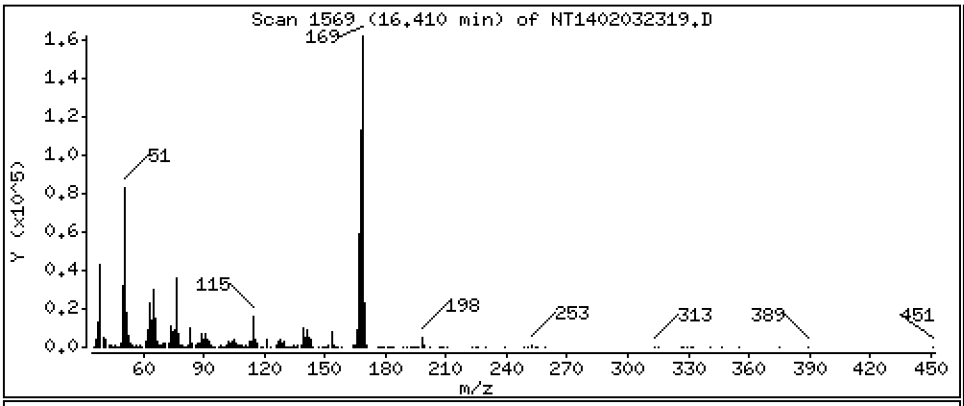
Operator: DSD

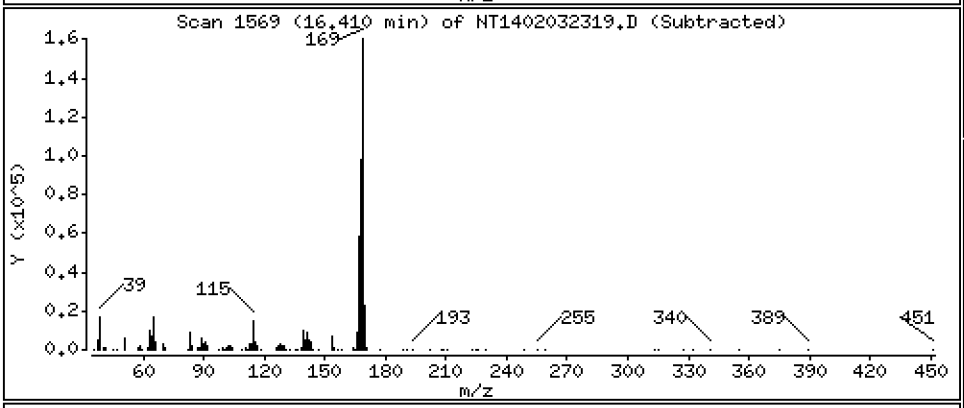
Column phase: ZB-5msi

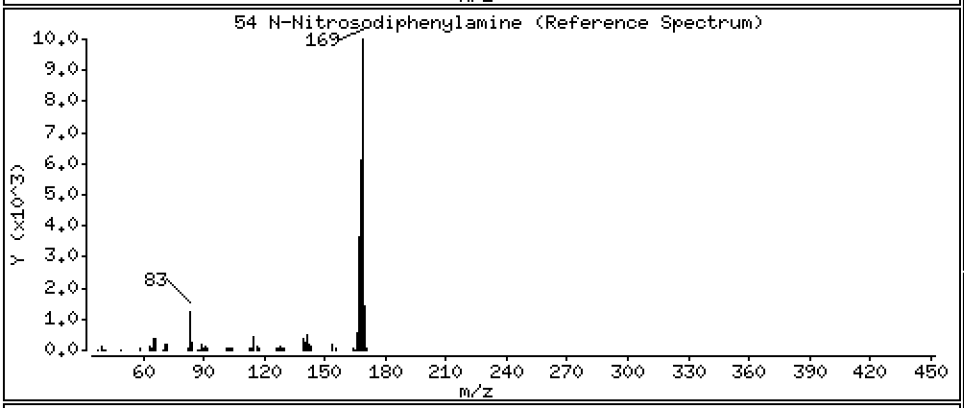
Column diameter: 0.25

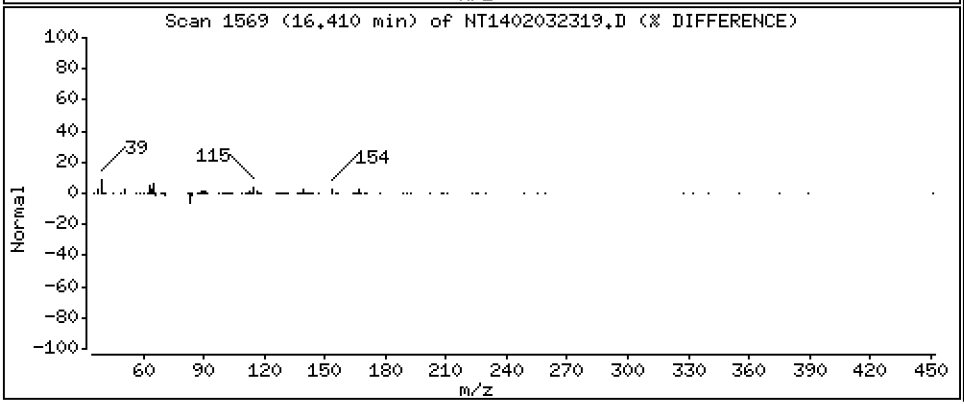
54 N-Nitrosodiphenylamine

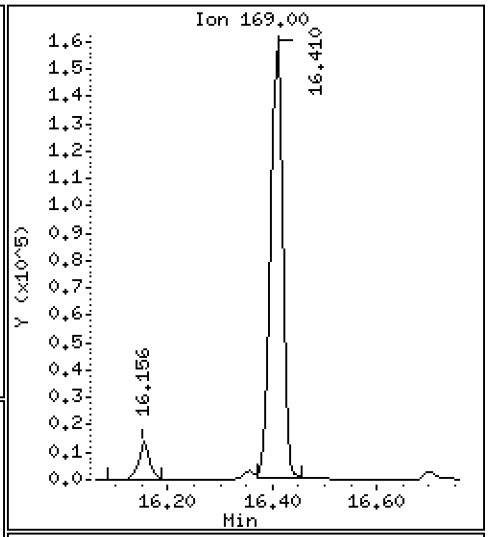
Concentration: 4.809 ug/mL

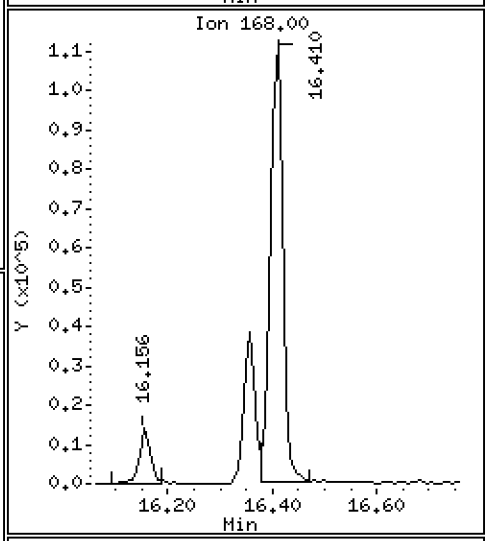


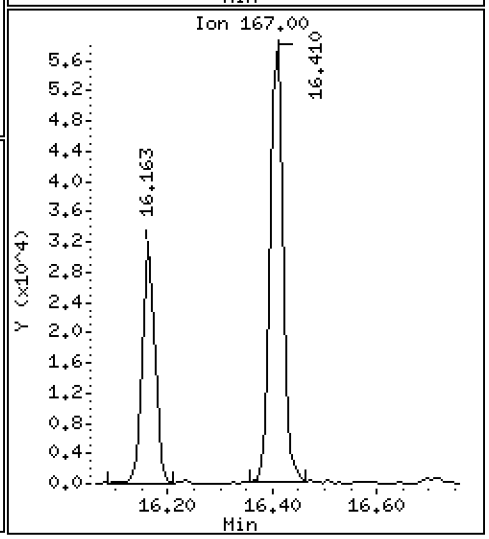












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

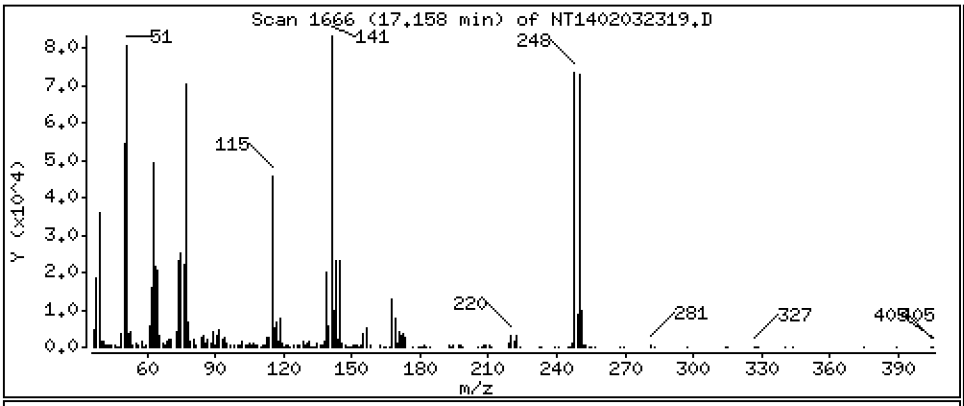
Operator: DSD

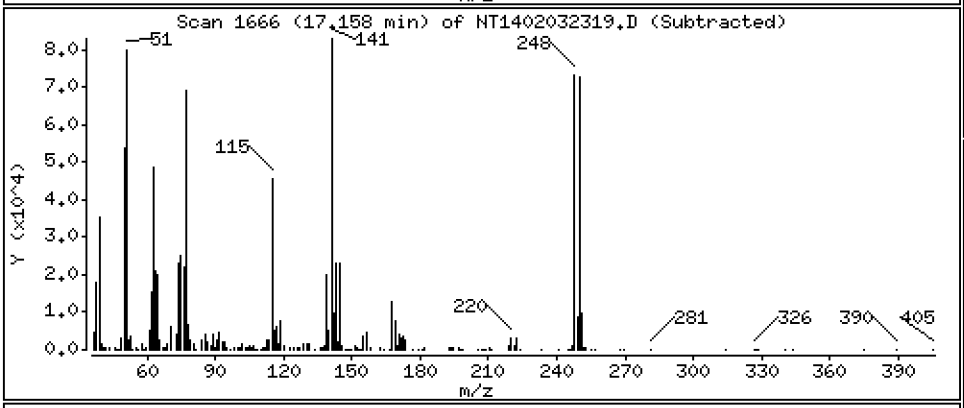
Column phase: ZB-5msi

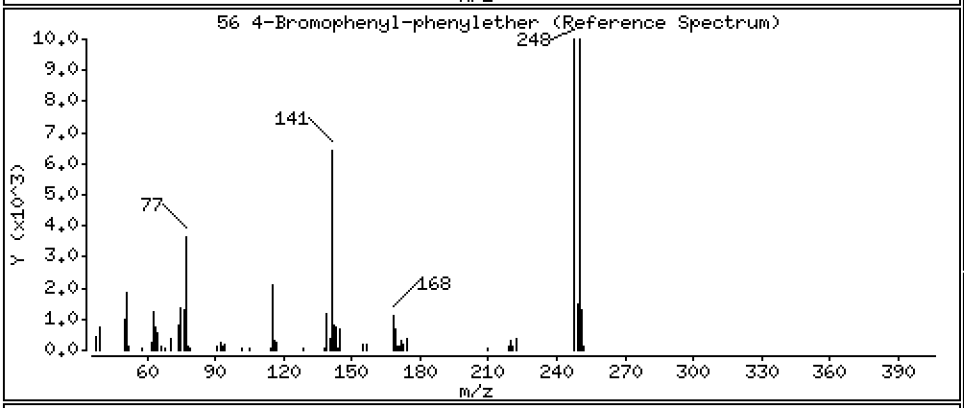
Column diameter: 0.25

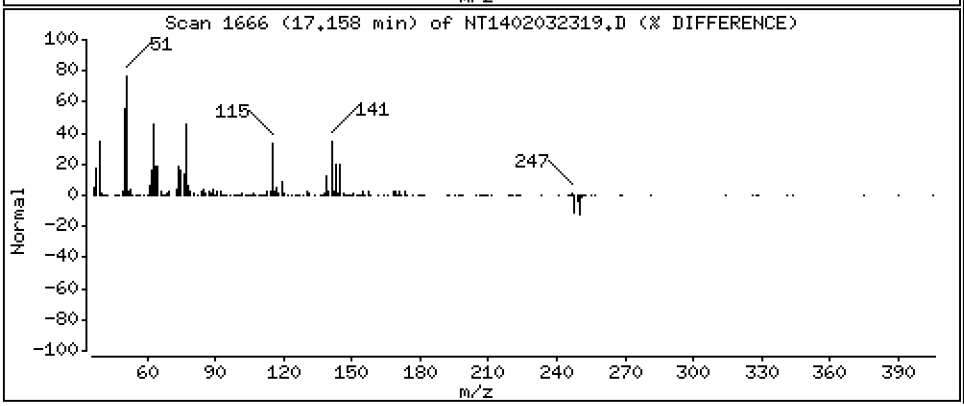
56 4-Bromophenyl-phenylether

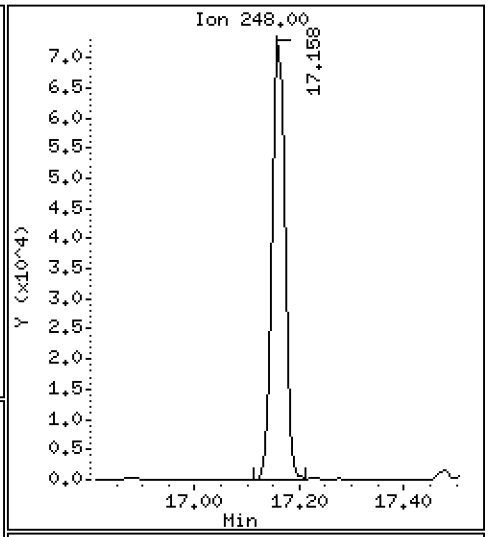
Concentration: 5.023 ug/mL

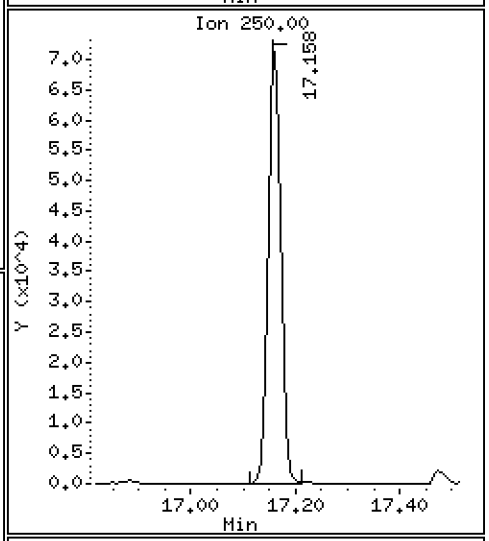


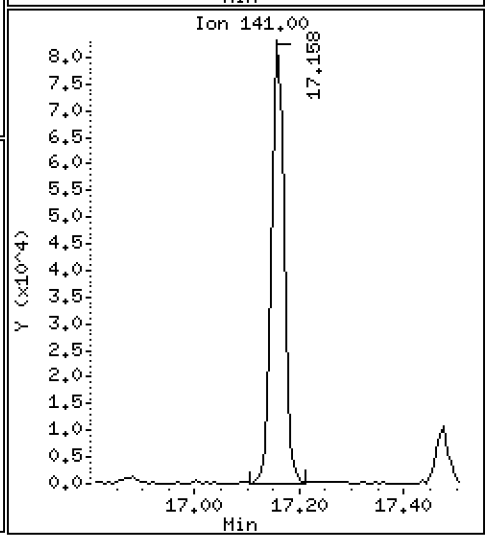












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

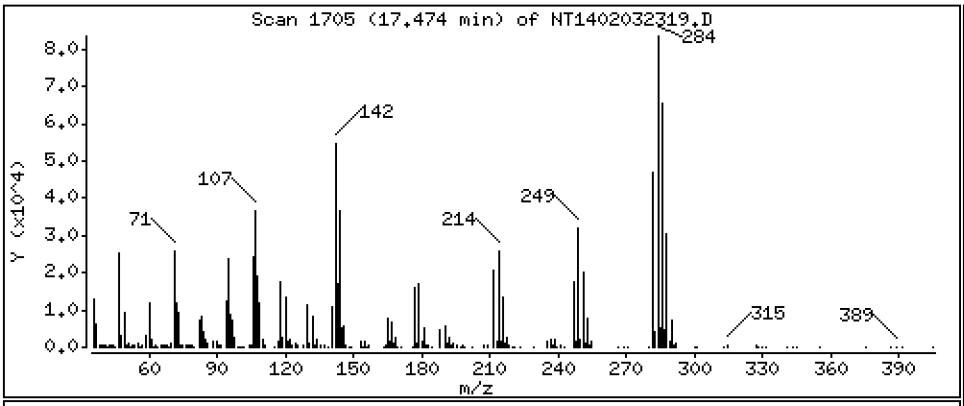
Operator: DSD

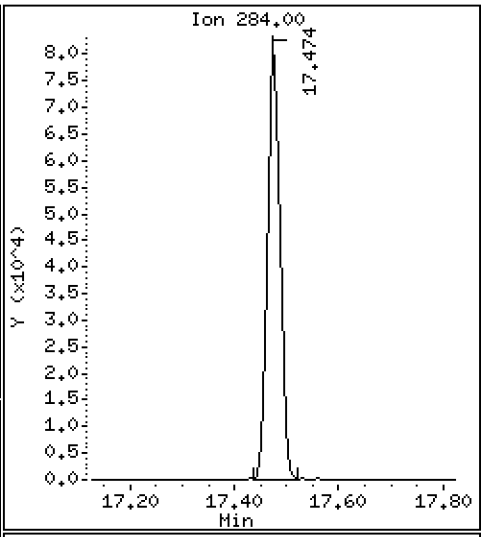
Column phase: ZB-5msi

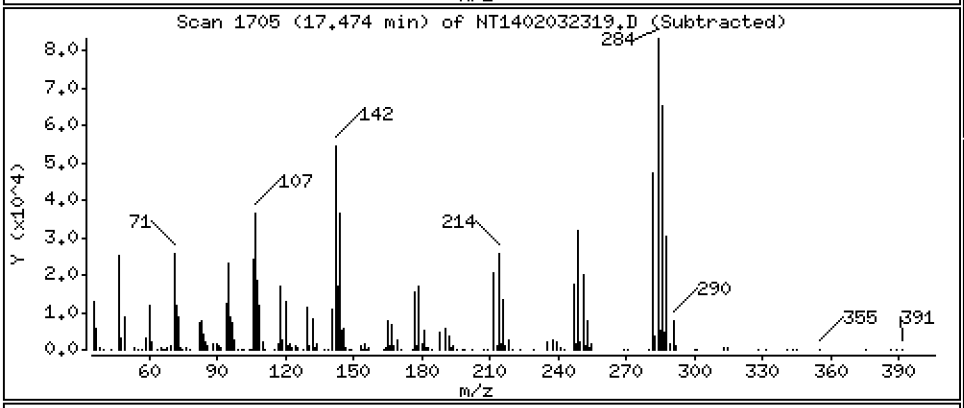
Column diameter: 0.25

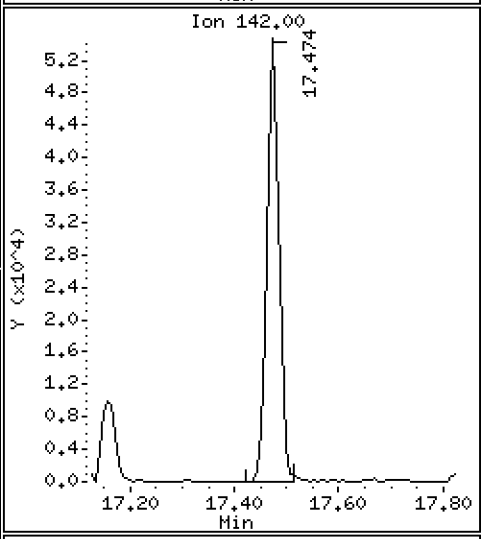
57 Hexachlorobenzene

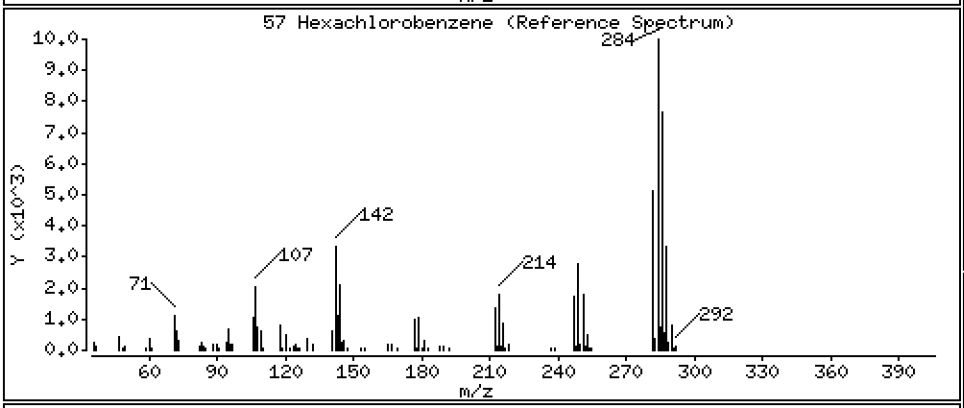
Concentration: 4.938 ug/mL

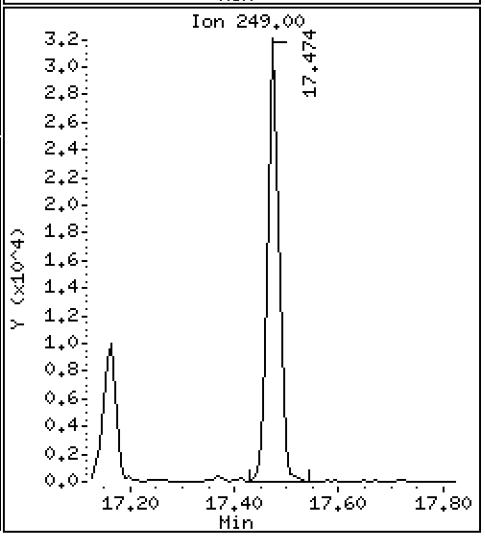


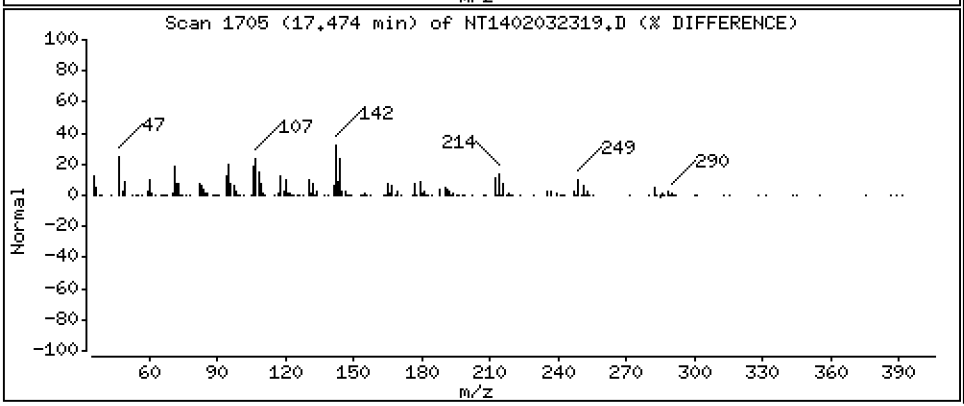












Date : 03-FEB-2023 23:57

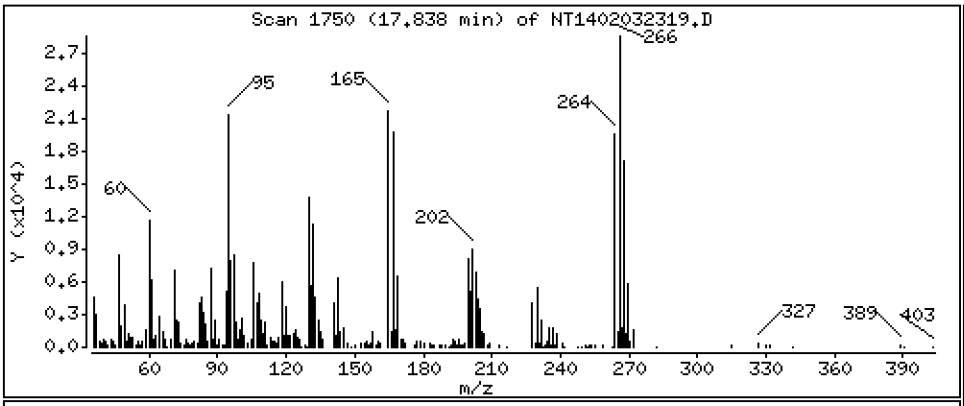
Client ID: Instrument: nt14.i

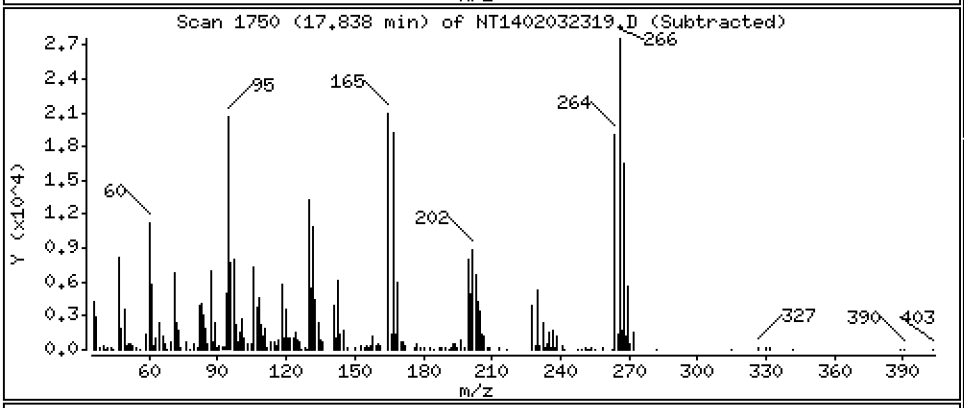
Sample Info: SLB0035-CCV1

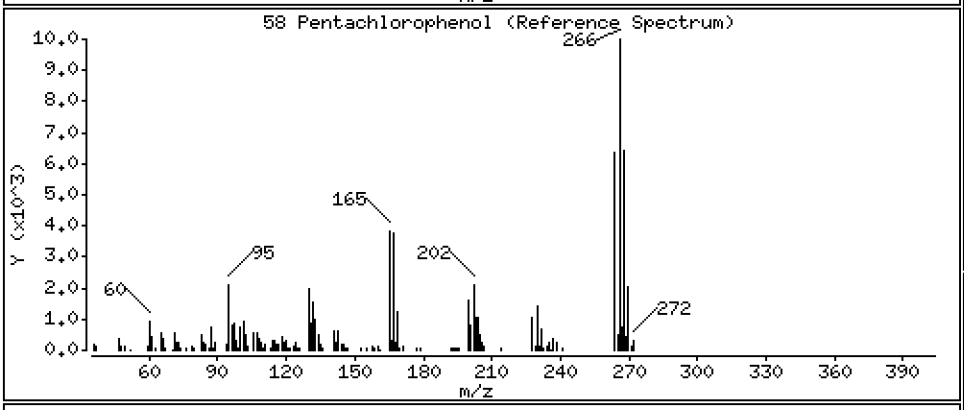
Operator: DSD

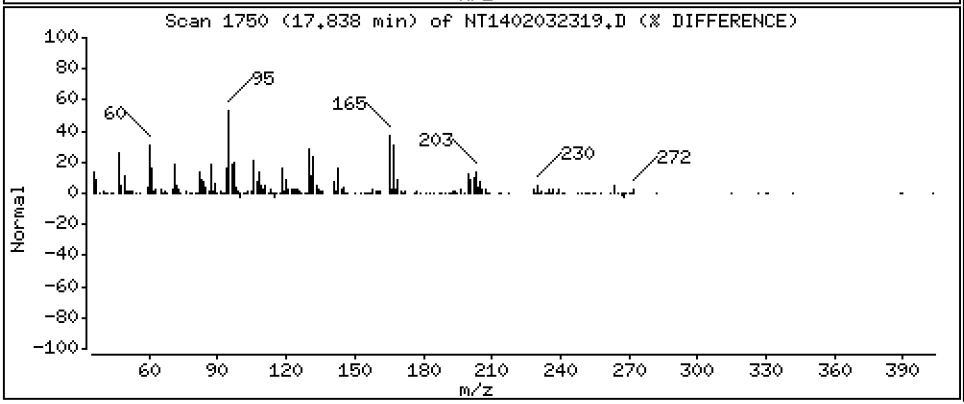
Column phase: ZB-5msi Column diameter: 0.25

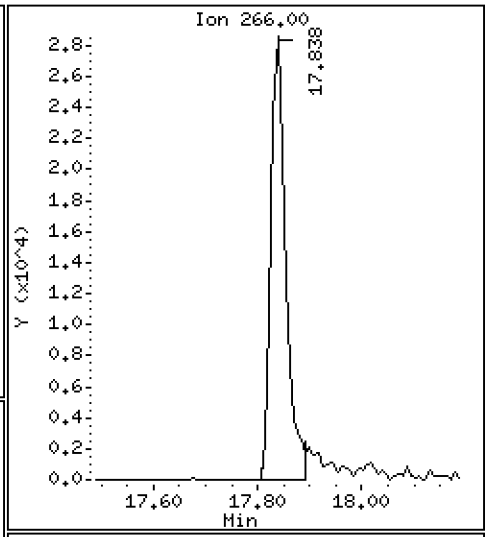
58 Pentachlorophenol Concentration: 3.710 ug/mL

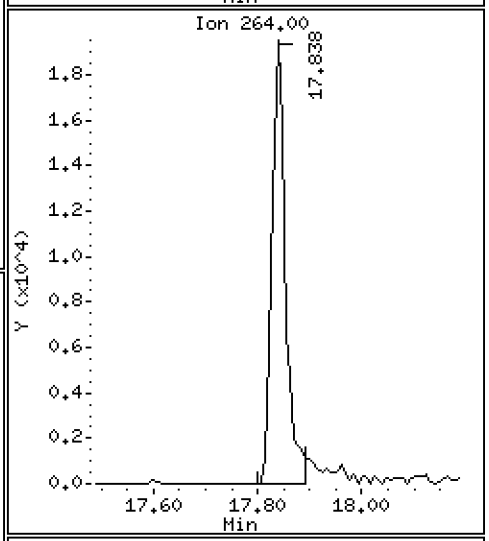


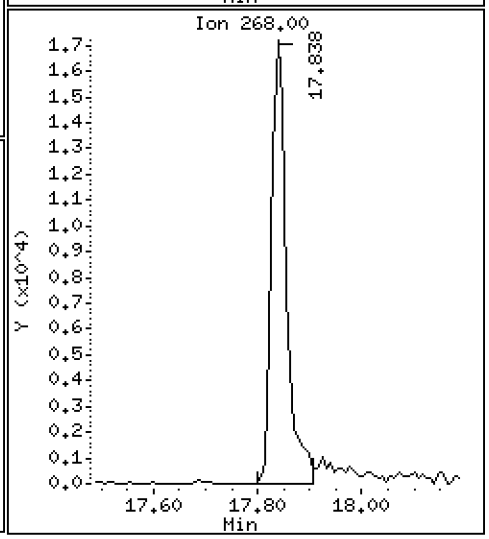












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

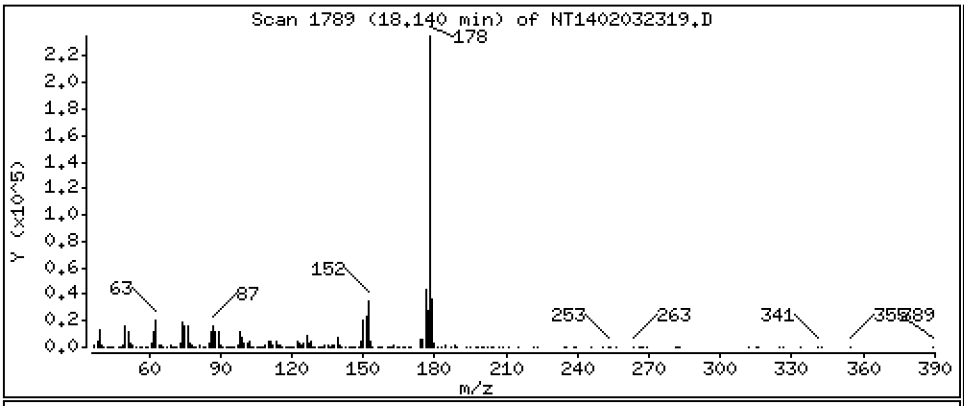
Operator: DSD

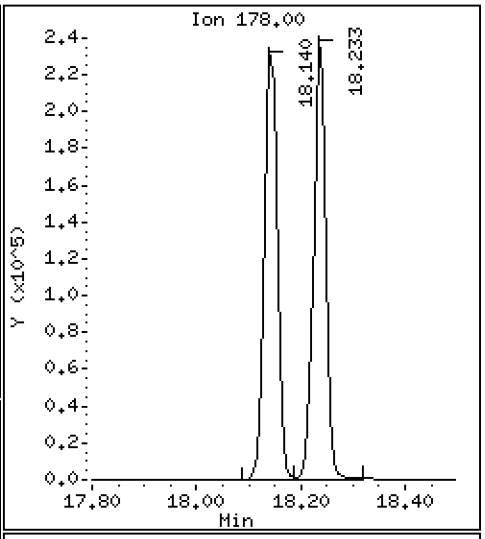
Column phase: ZB-5msi

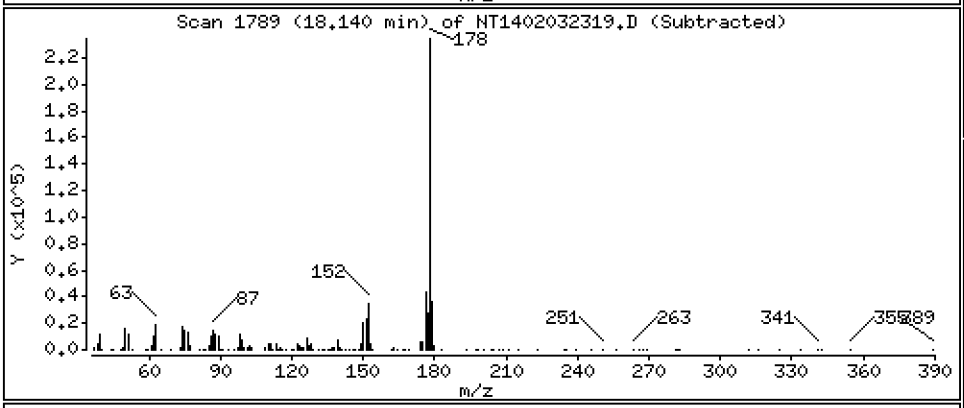
Column diameter: 0.25

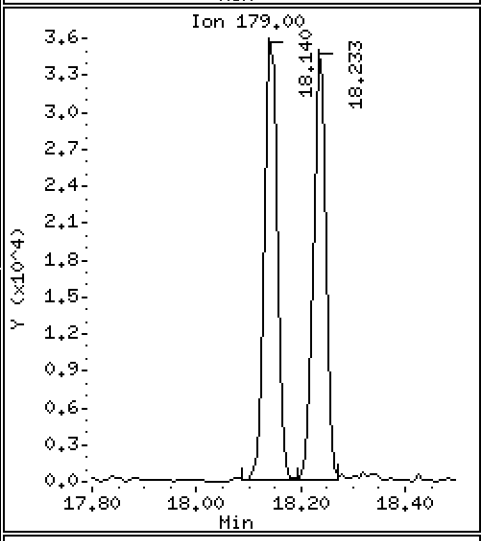
60 Phenanthrene

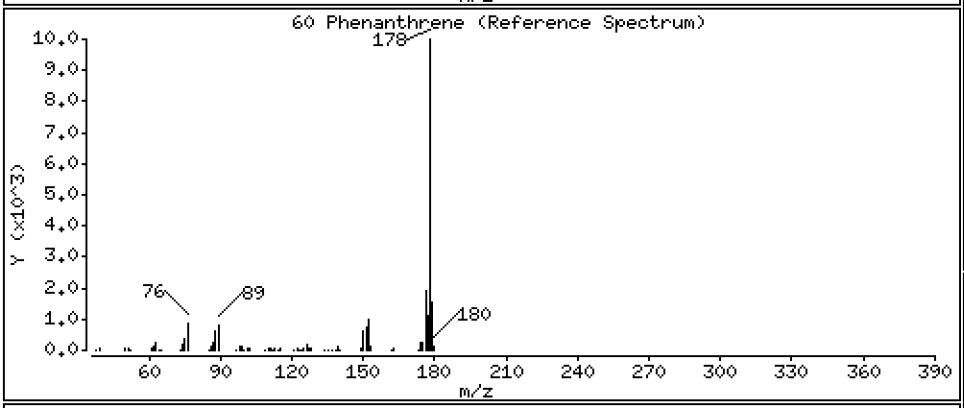
Concentration: 4.735 ug/mL

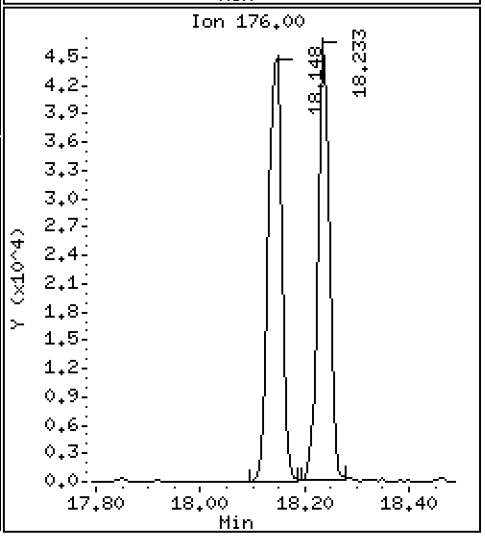


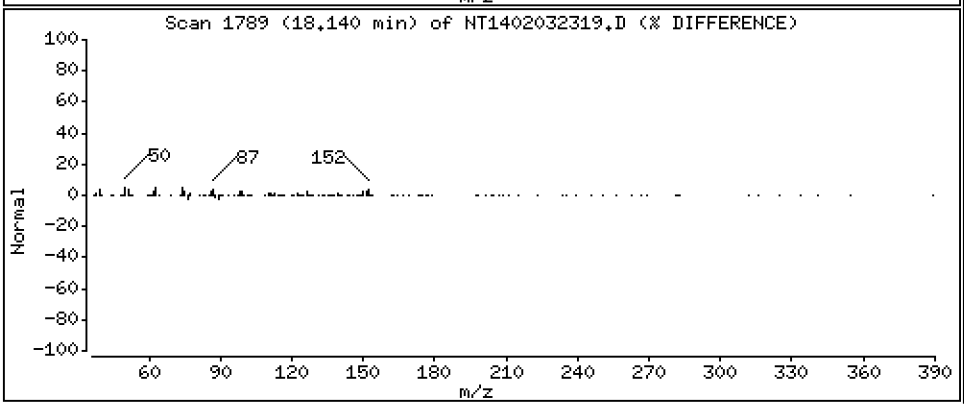












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

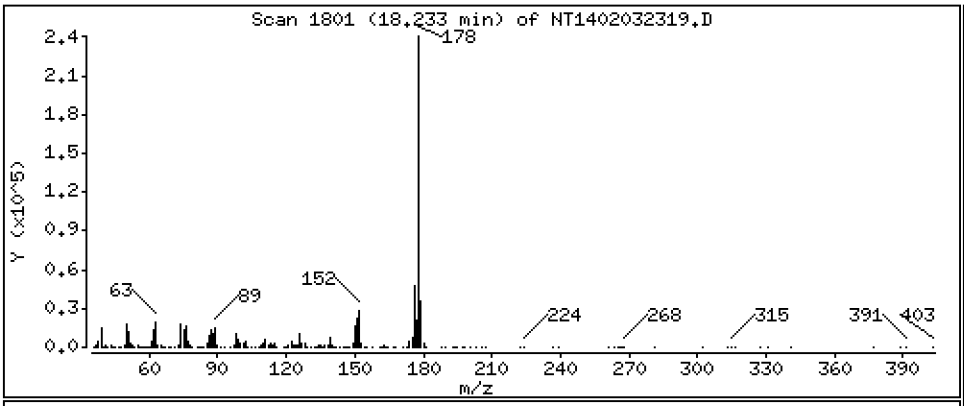
Operator: DSD

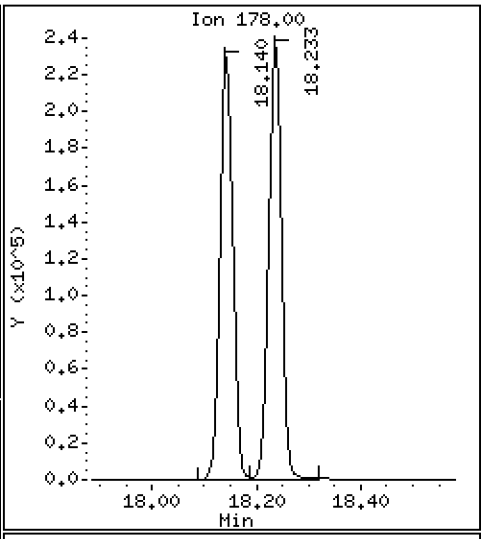
Column phase: ZB-5msi

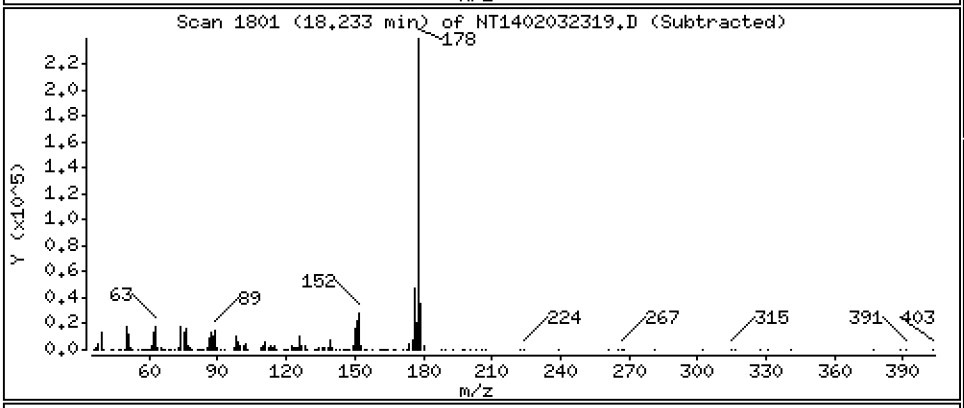
Column diameter: 0.25

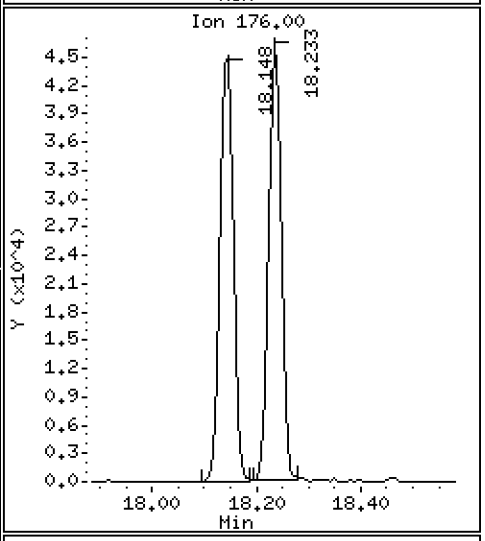
61 Anthracene

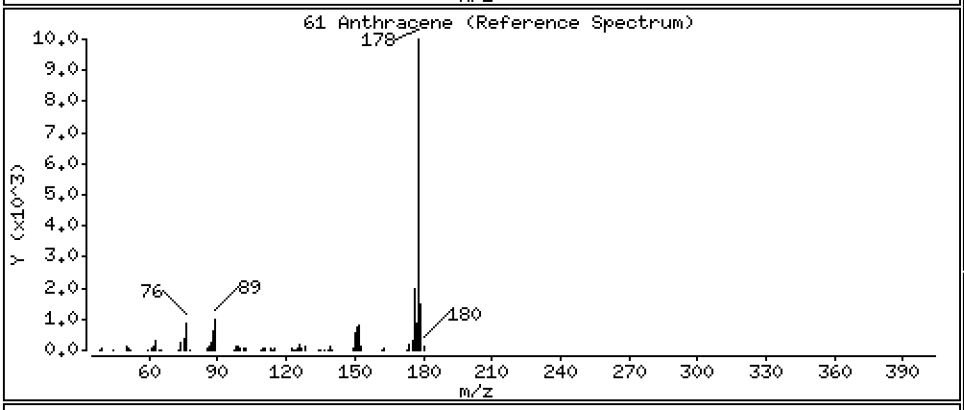
Concentration: 5.007 ug/mL

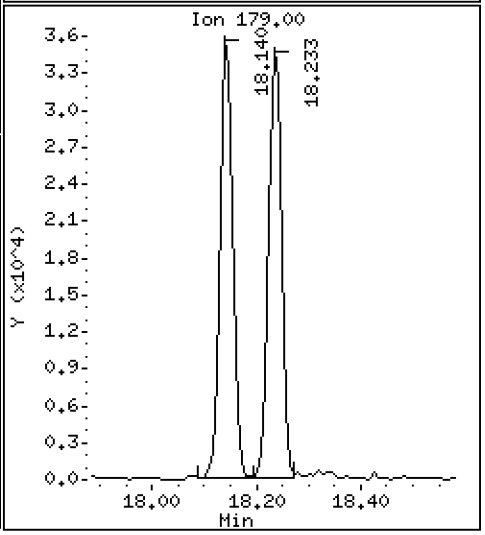


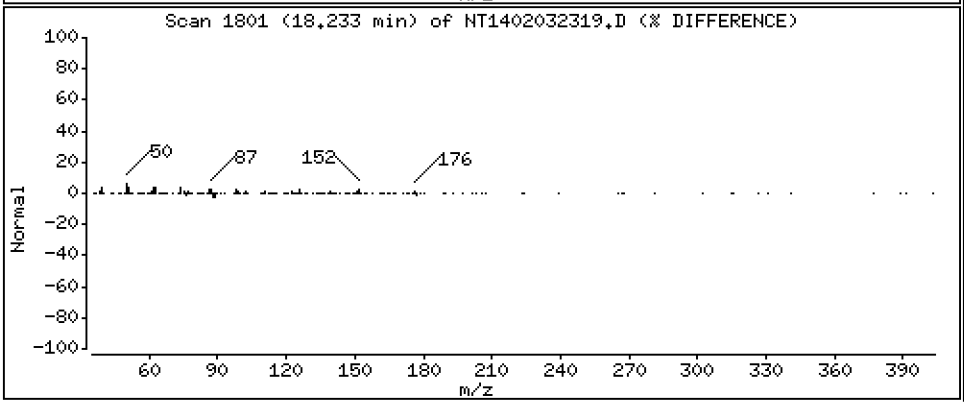












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

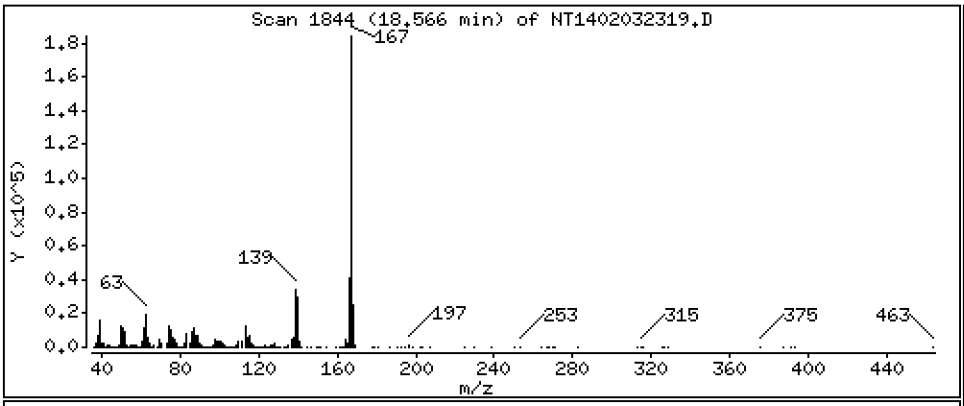
Operator: DSD

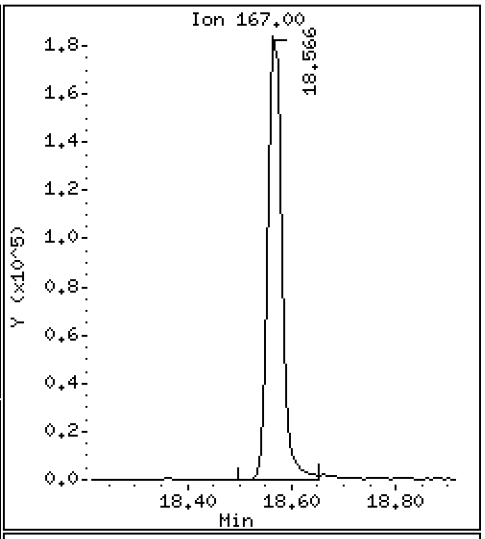
Column phase: ZB-5msi

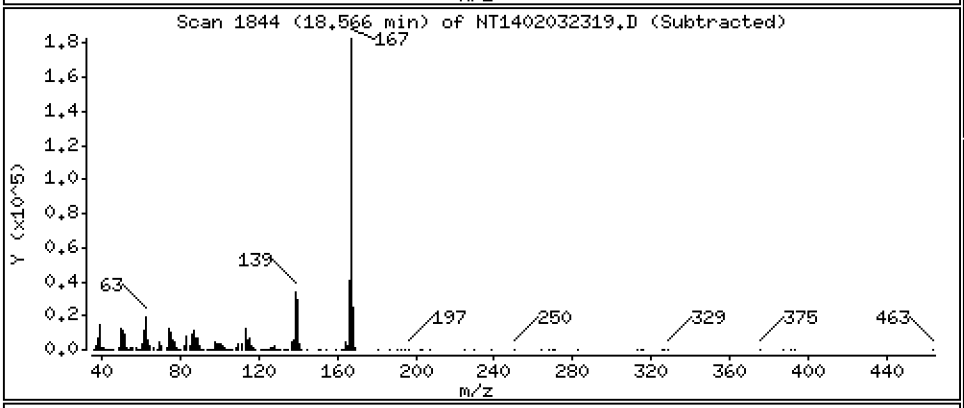
Column diameter: 0.25

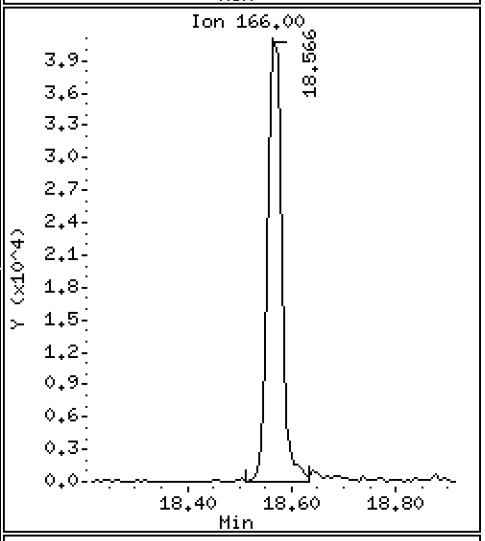
62 Carbazole

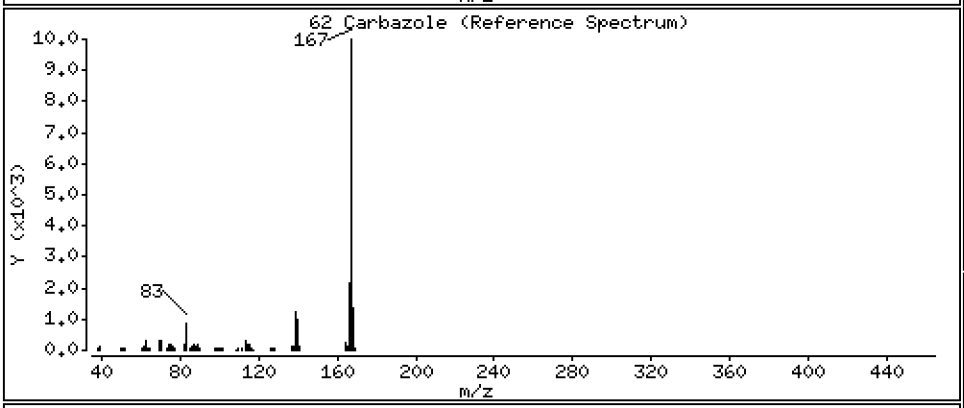
Concentration: 4.675 ug/mL

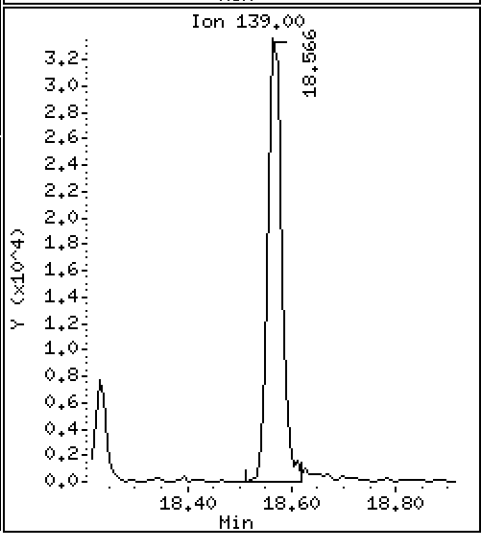


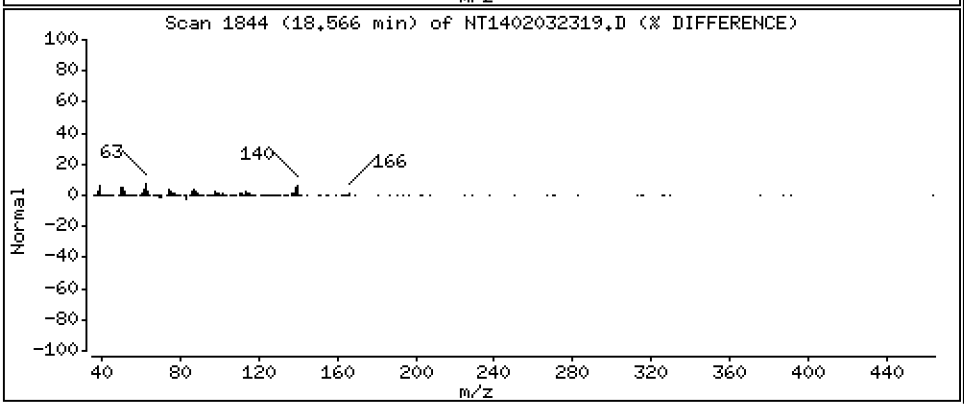












Date : 03-FEB-2023 23:57

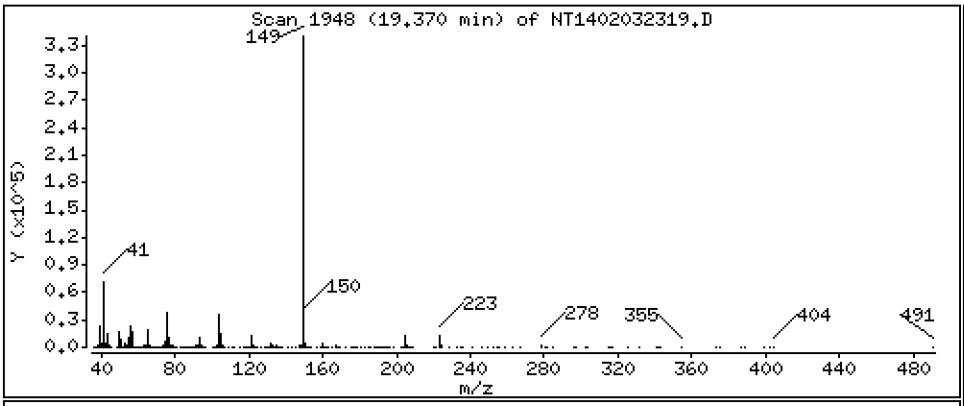
Client ID: Instrument: nt14.i

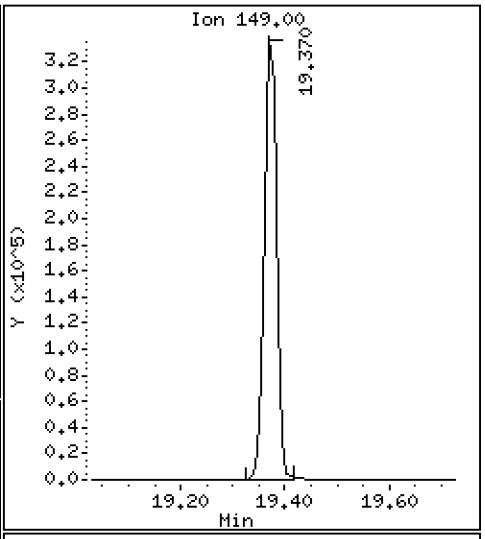
Sample Info: SLB0035-CCV1

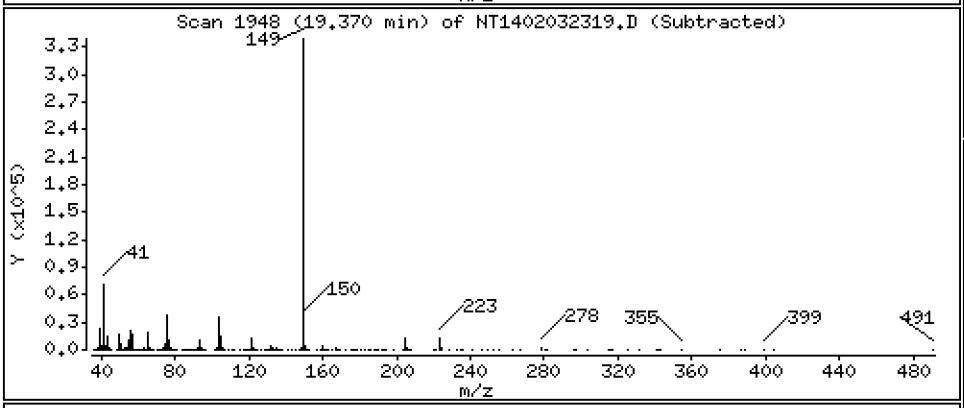
Operator: DSD

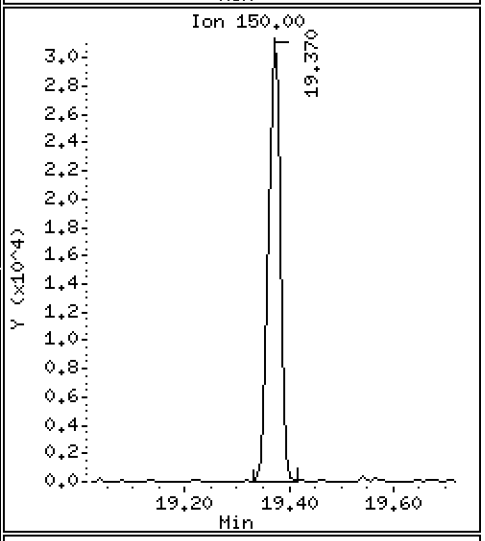
Column phase: ZB-5msi Column diameter: 0.25

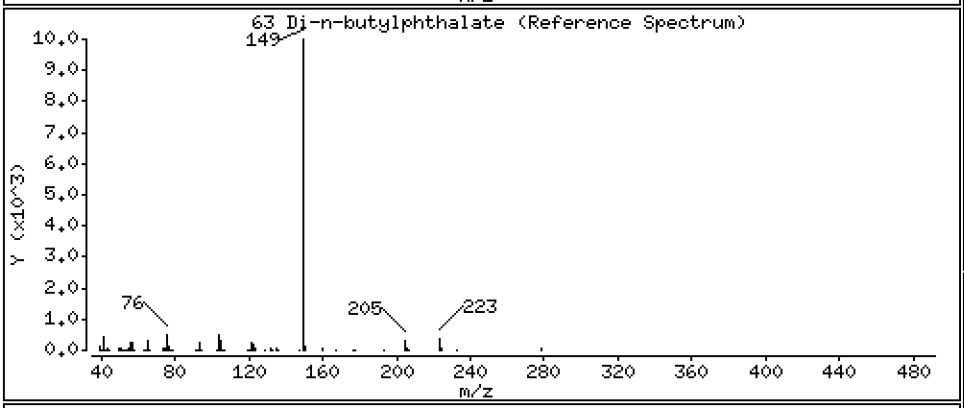
63 Di-n-butylphthalate Concentration: 4.714 ug/mL

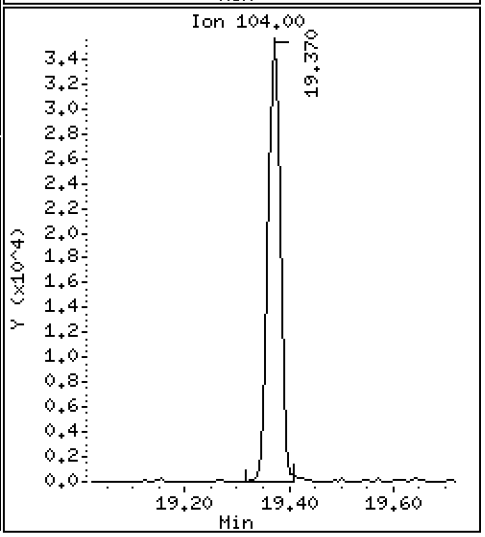


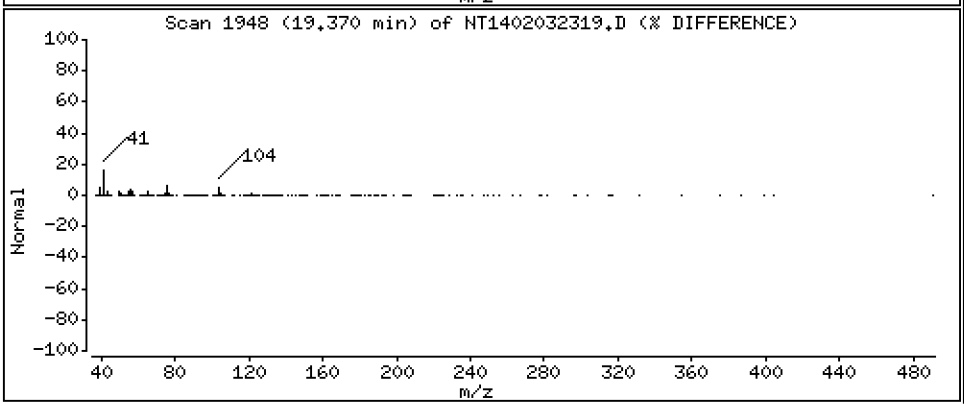












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

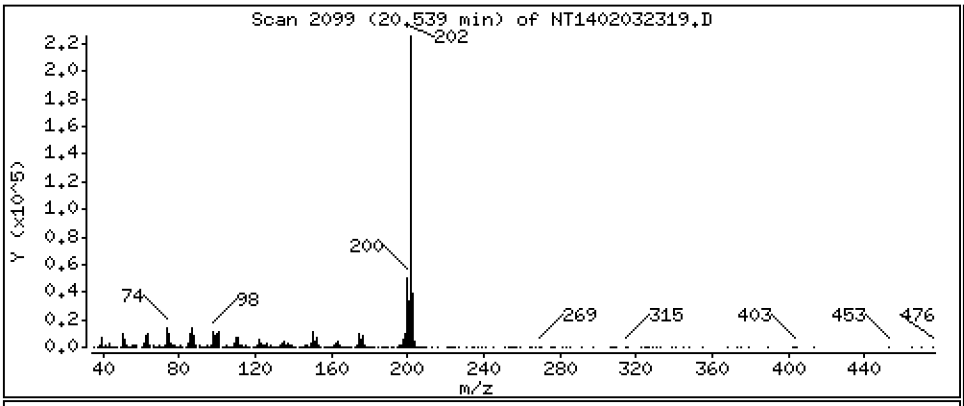
Operator: DSD

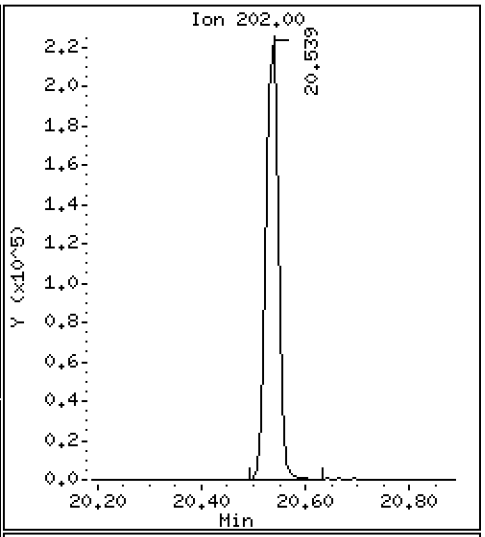
Column phase: ZB-5msi

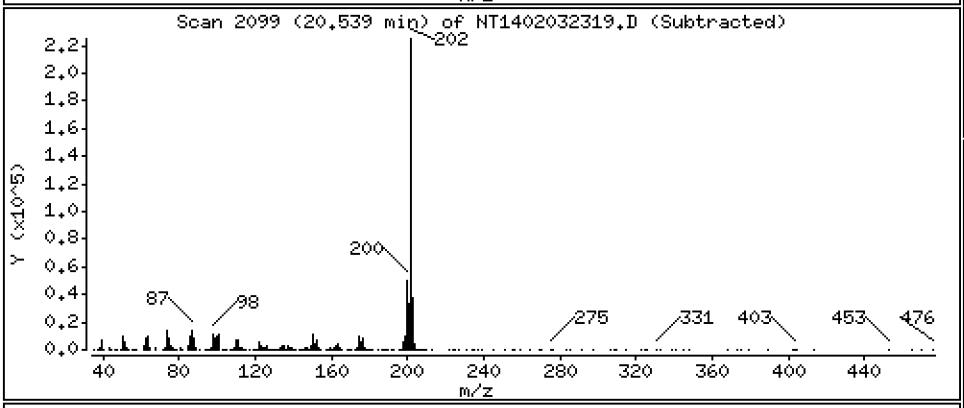
Column diameter: 0.25

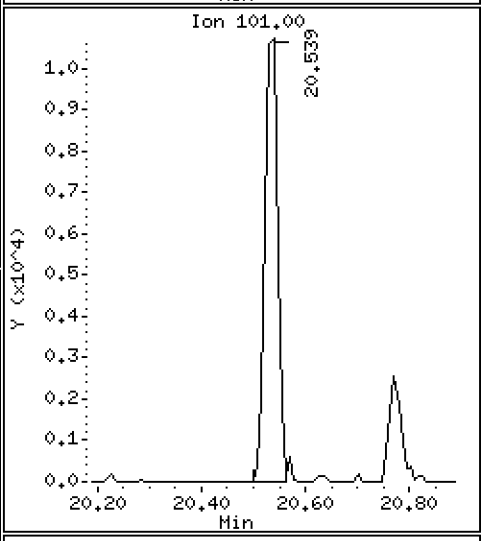
64 Fluoranthene

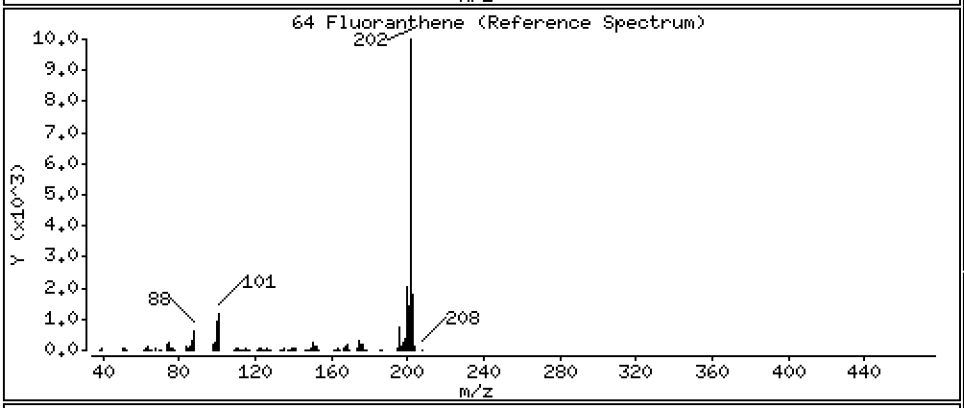
Concentration: 8.068 ug/mL

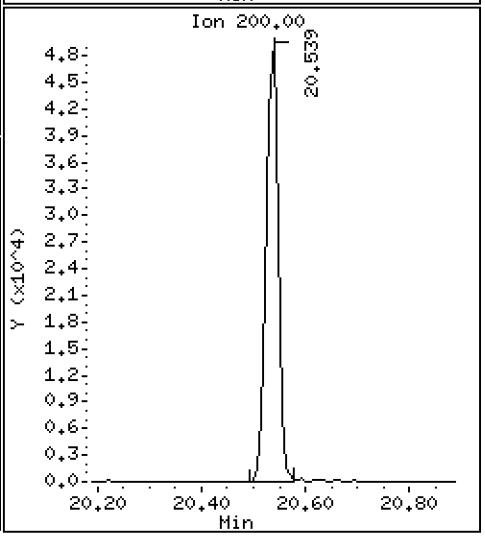


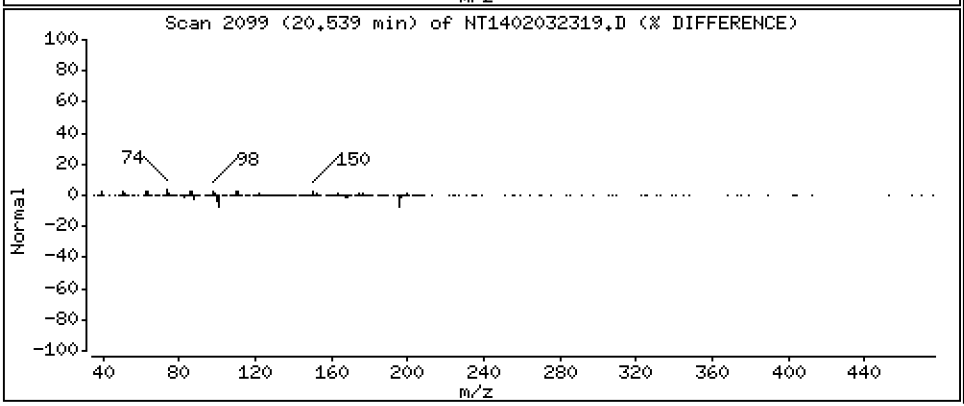












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

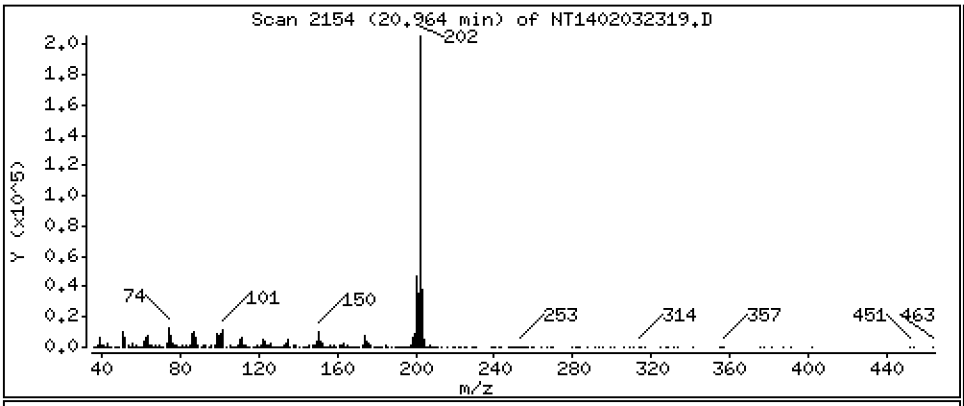
Operator: DSD

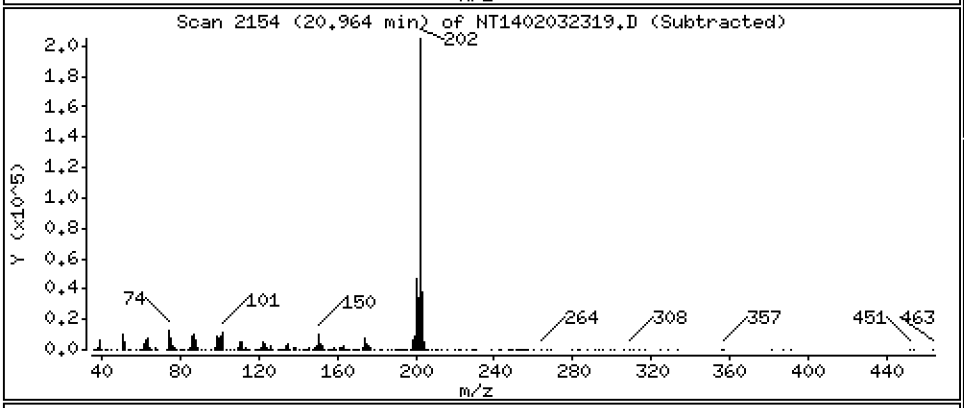
Column phase: ZB-5msi

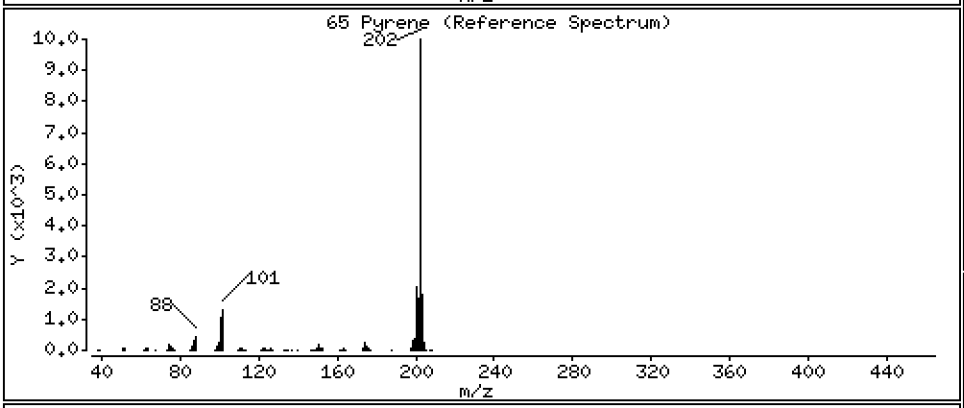
Column diameter: 0.25

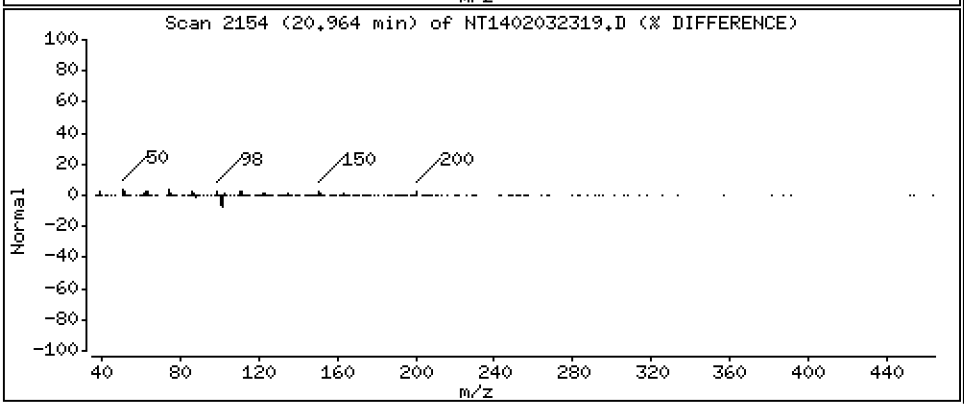
65 Pyrene

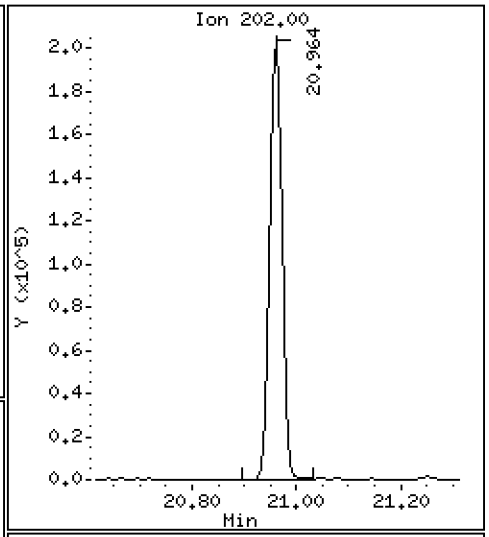
Concentration: 7.533 ug/mL

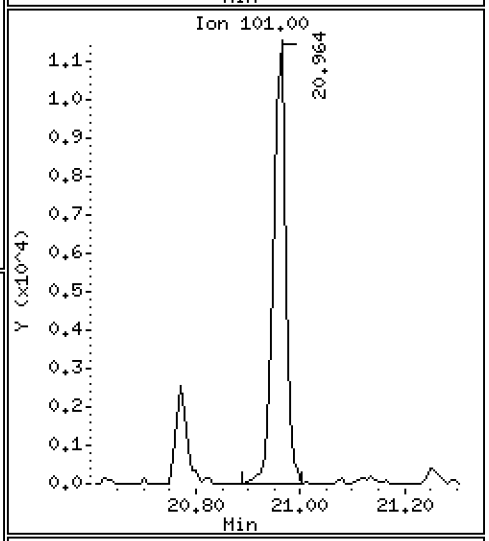


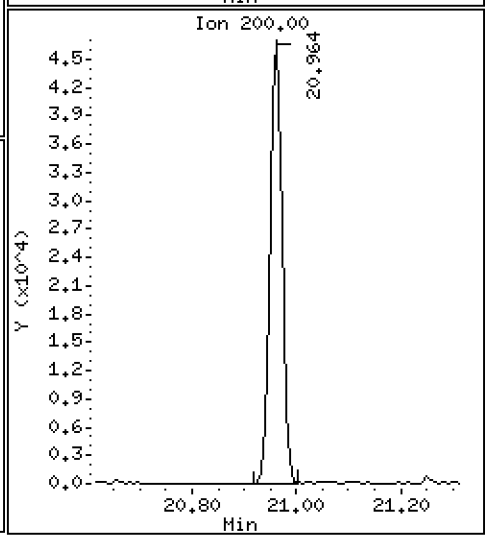












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

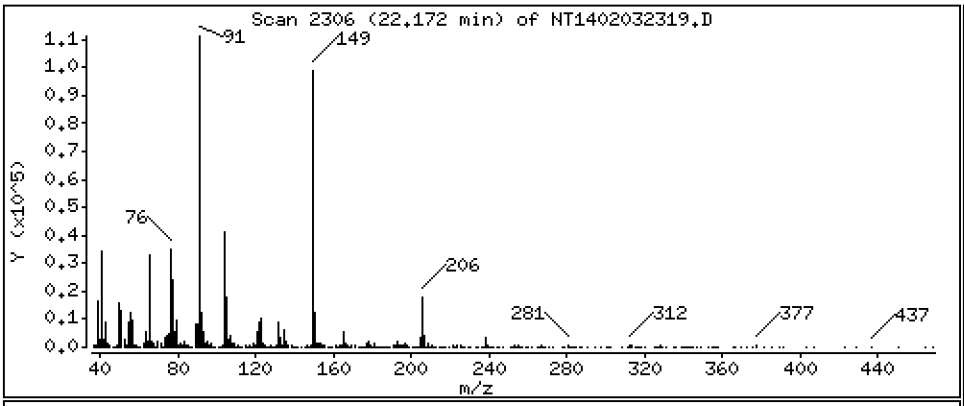
Operator: DSD

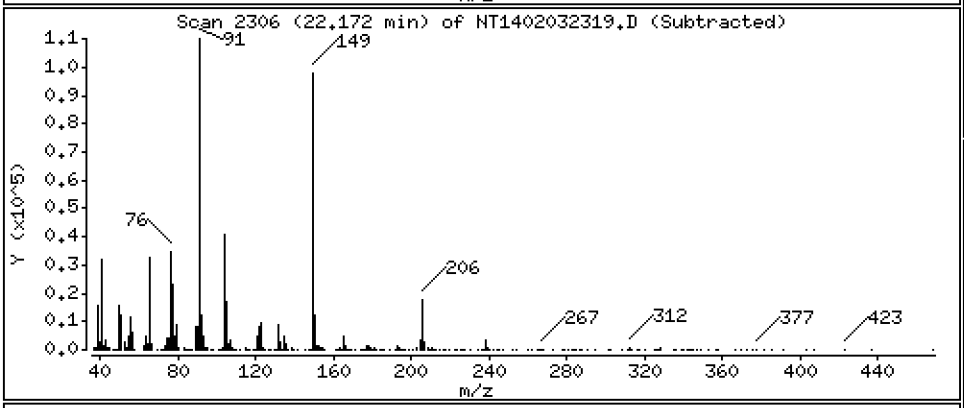
Column phase: ZB-5msi

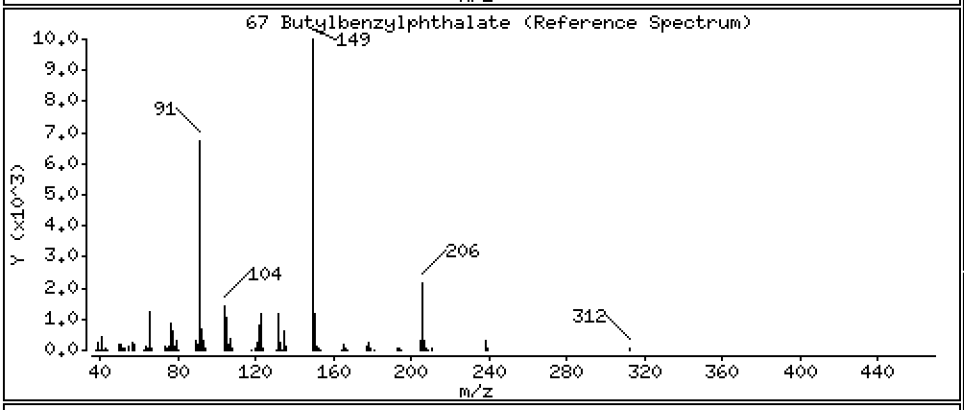
Column diameter: 0.25

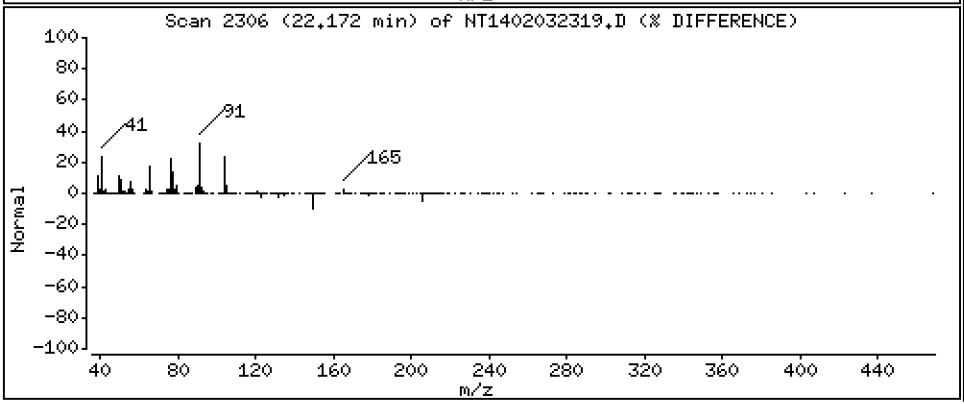
67 Butylbenzylphthalate

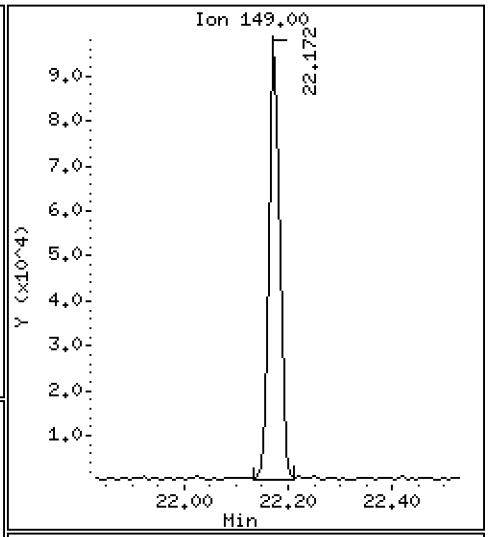
Concentration: 5.934 ug/mL

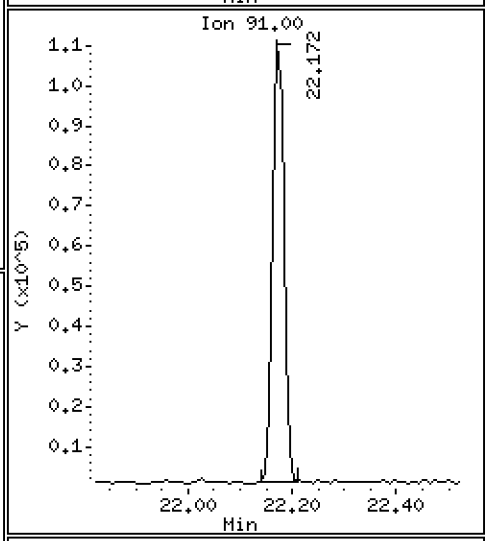


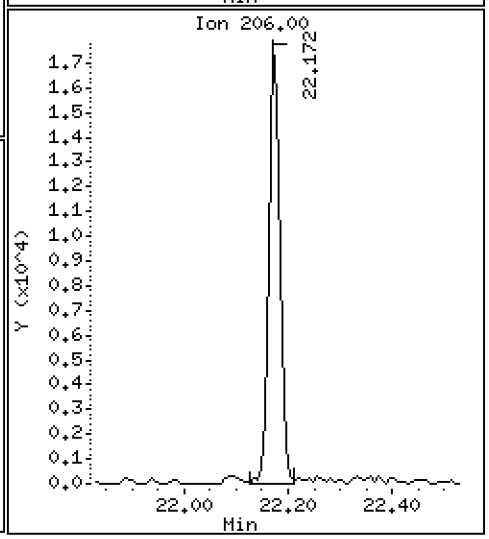












Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

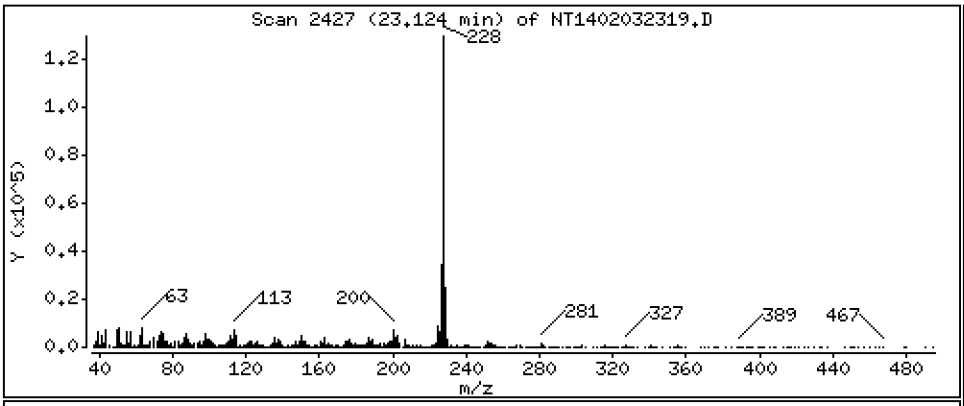
Operator: DSD

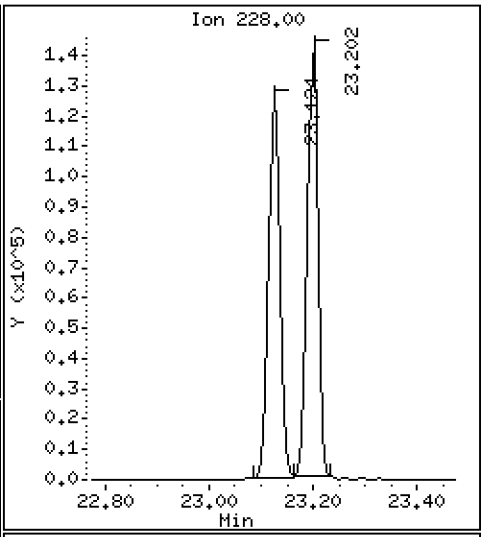
Column phase: ZB-5msi

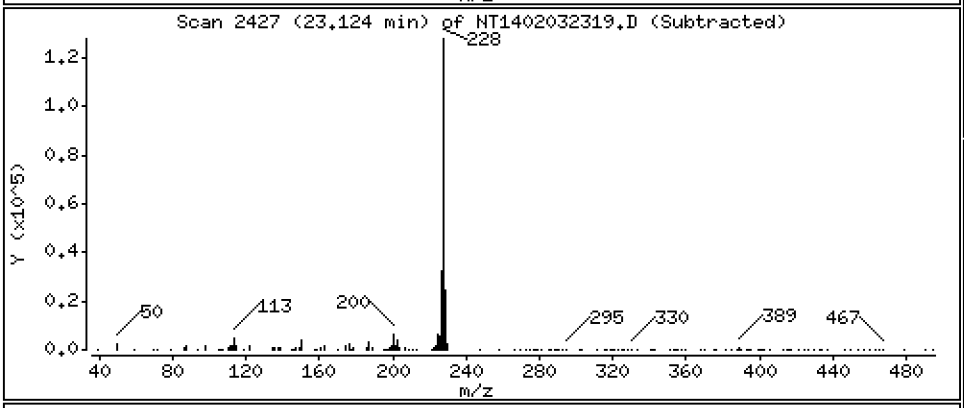
Column diameter: 0.25

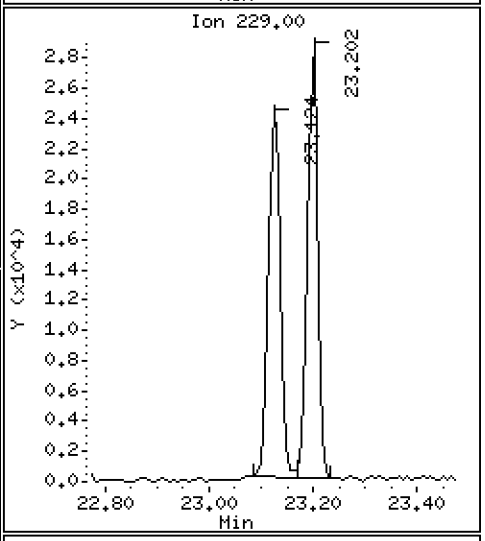
68 Benzo(a)anthracene

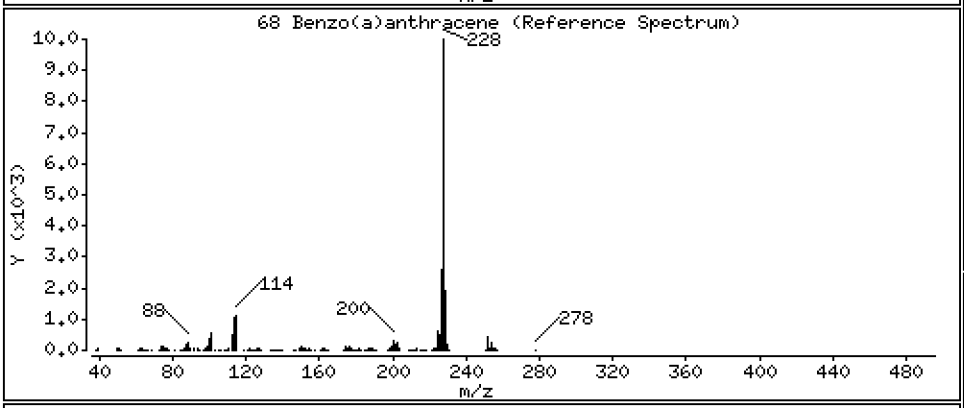
Concentration: 4.776 ug/mL

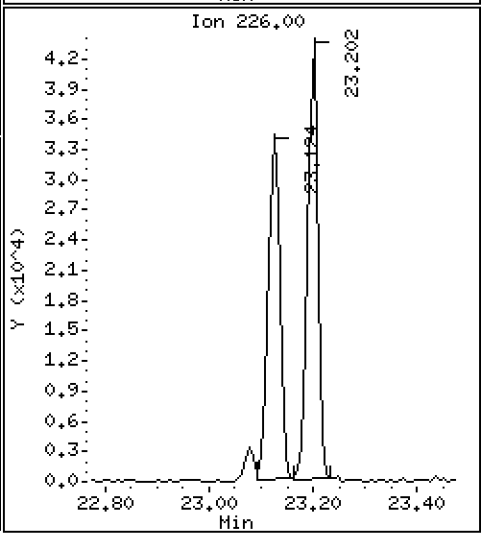


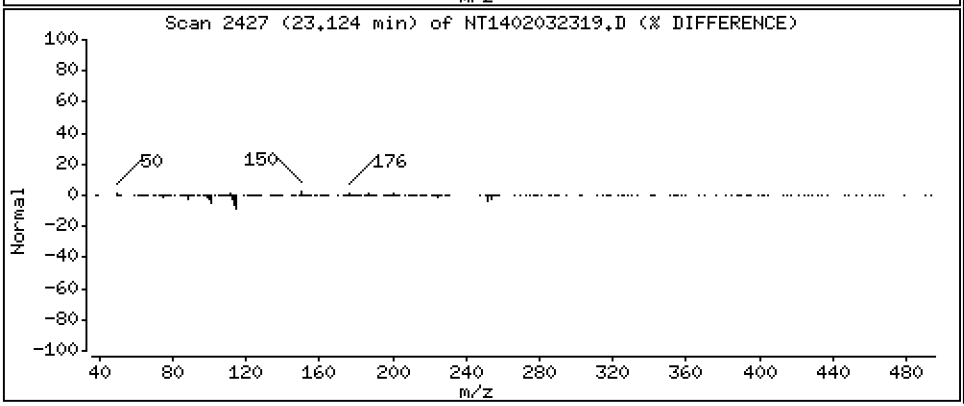












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

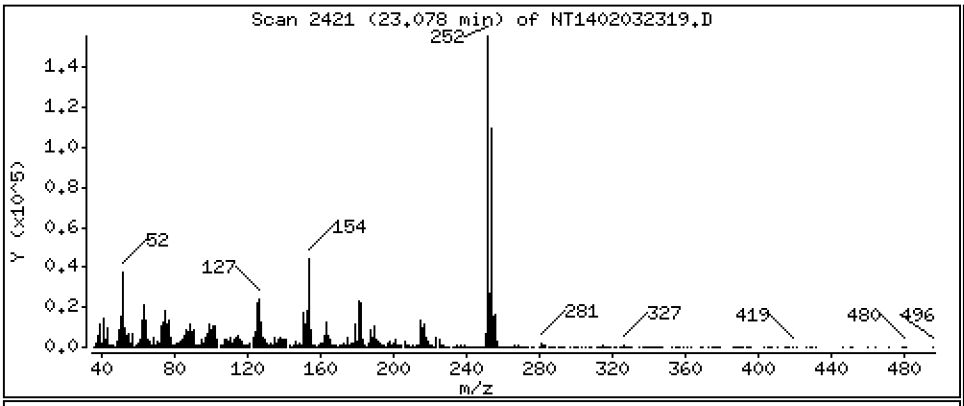
Operator: DSD

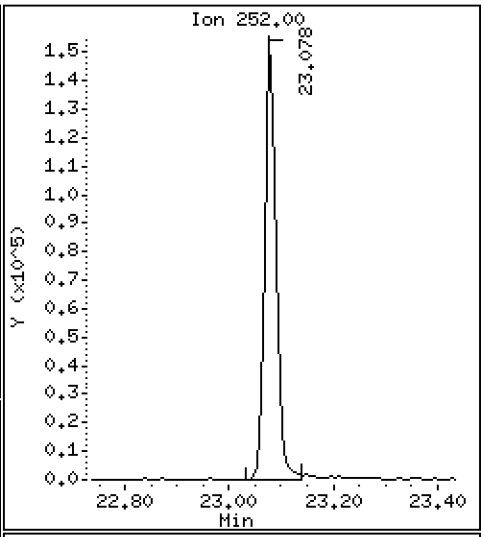
Column phase: ZB-5msi

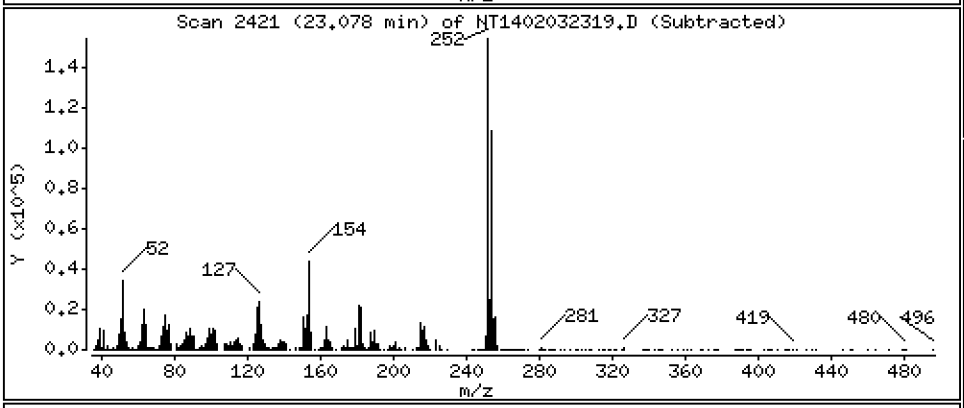
Column diameter: 0.25

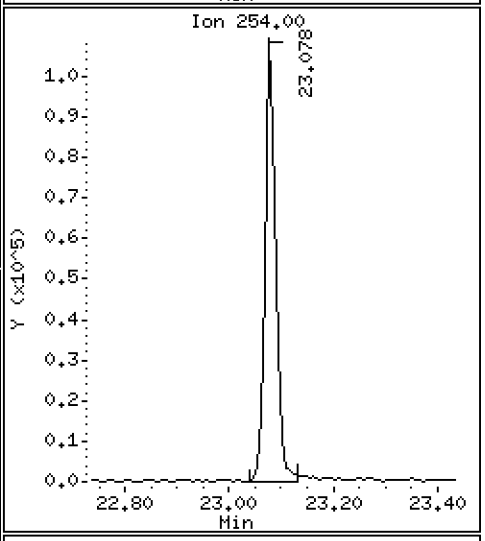
70 3,3'-Dichlorobenzidine

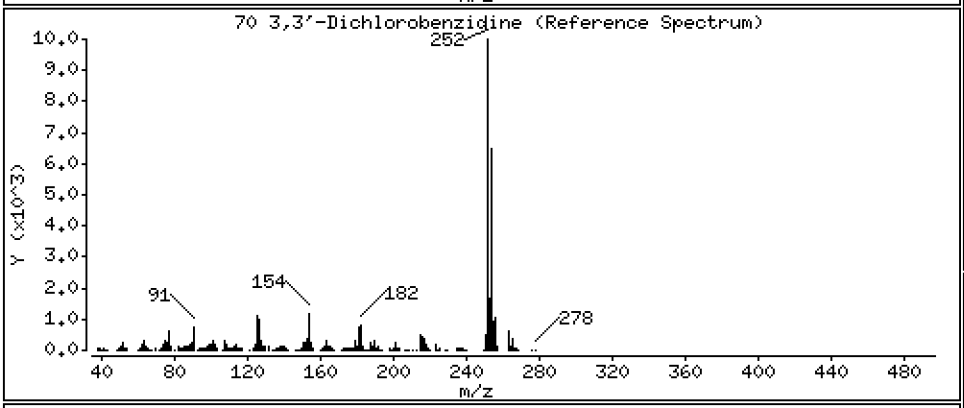
Concentration: 12.79 ug/mL

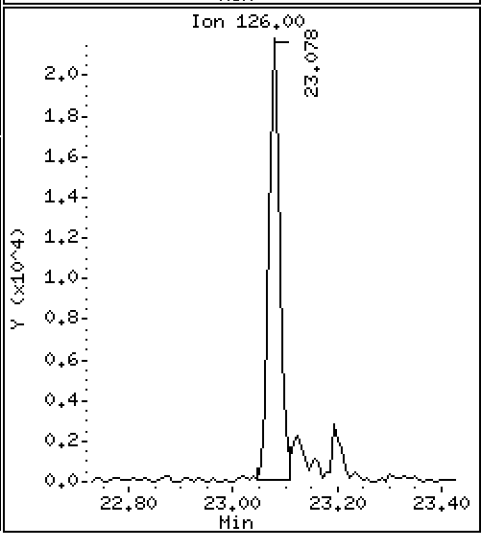


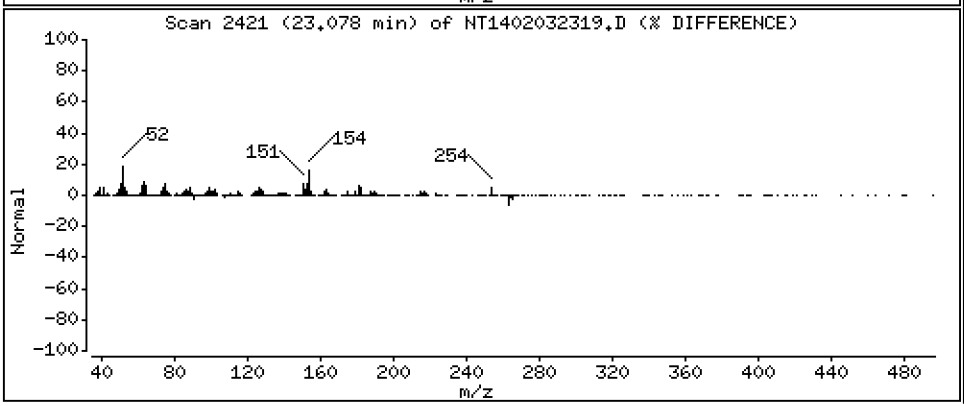












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

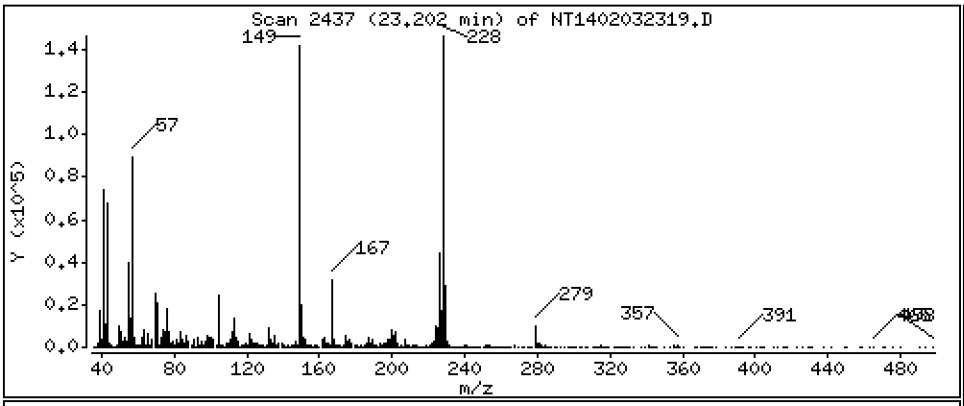
Operator: DSD

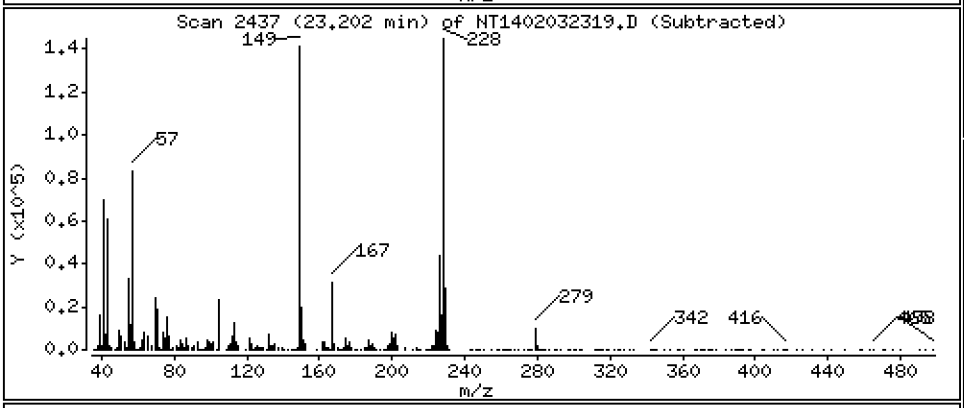
Column phase: ZB-5msi

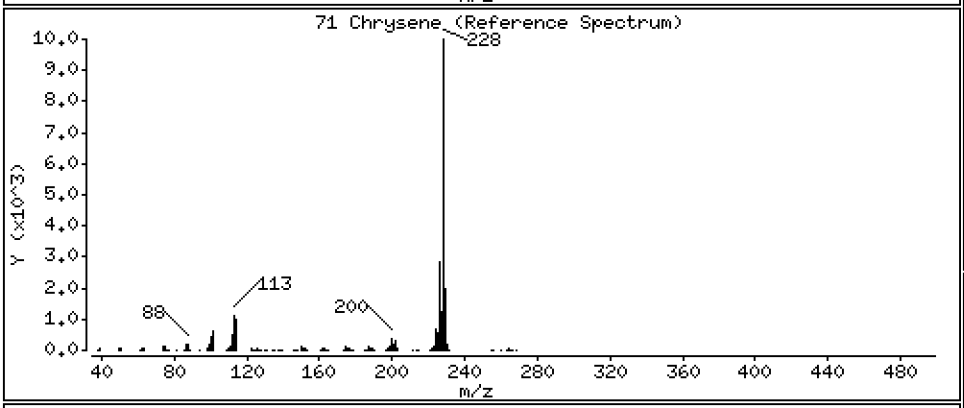
Column diameter: 0.25

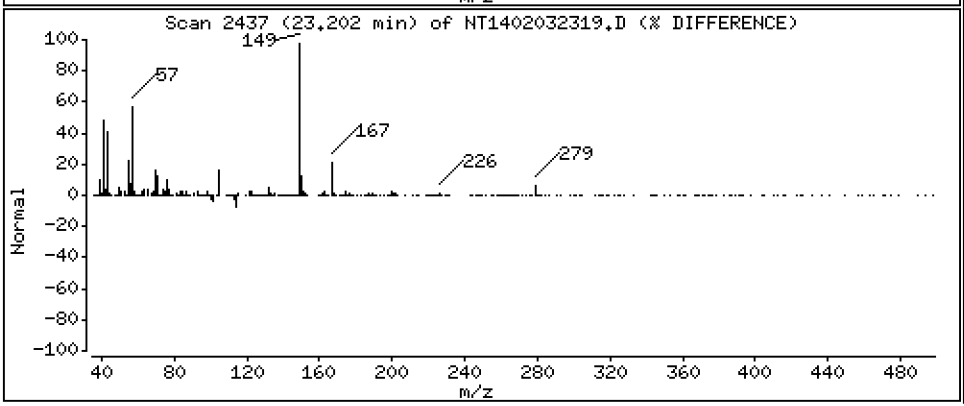
71 Chrysene

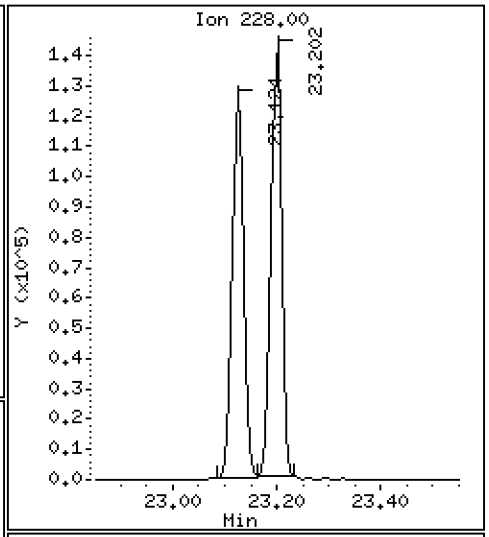
Concentration: 4.993 ug/mL

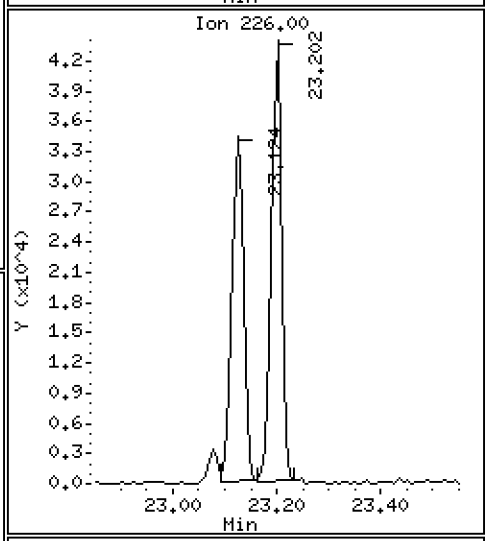


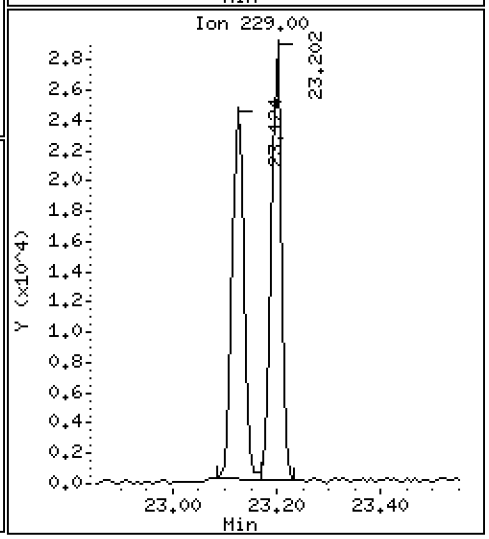












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

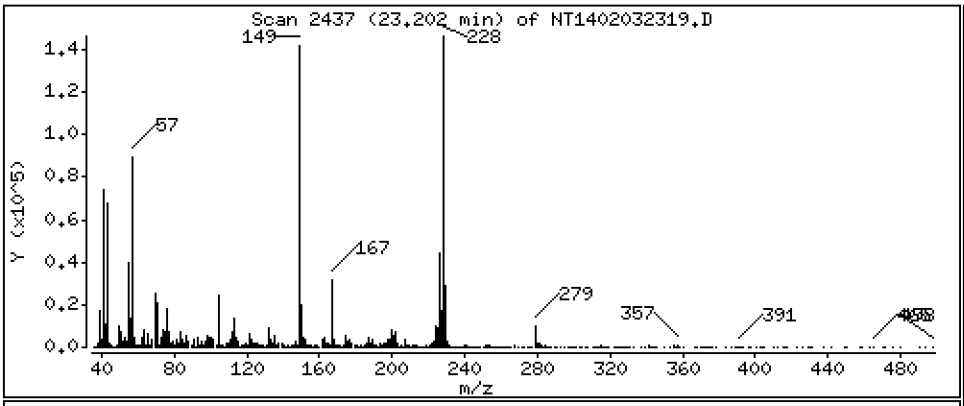
Operator: DSD

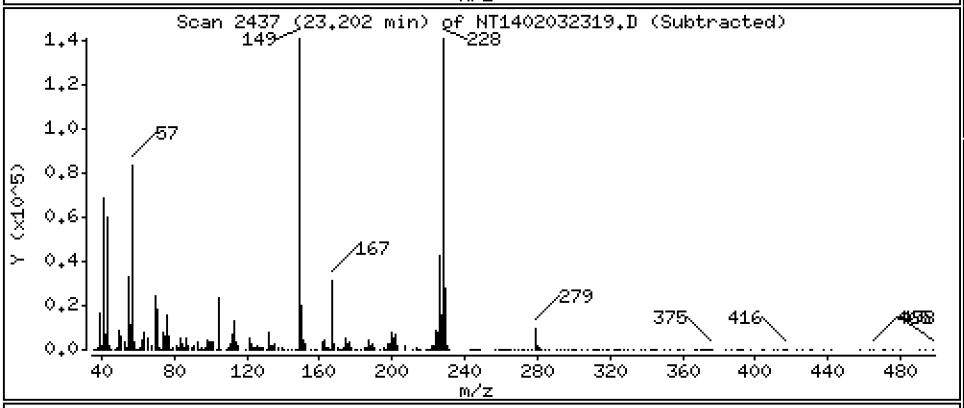
Column phase: ZB-5msi

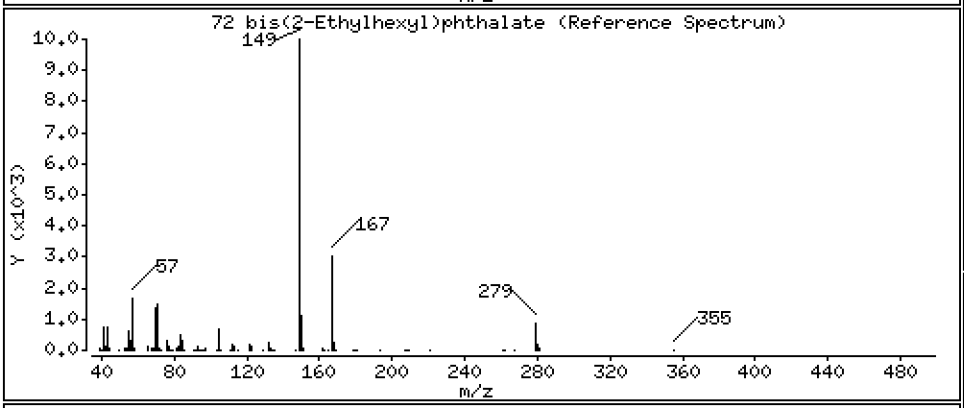
Column diameter: 0.25

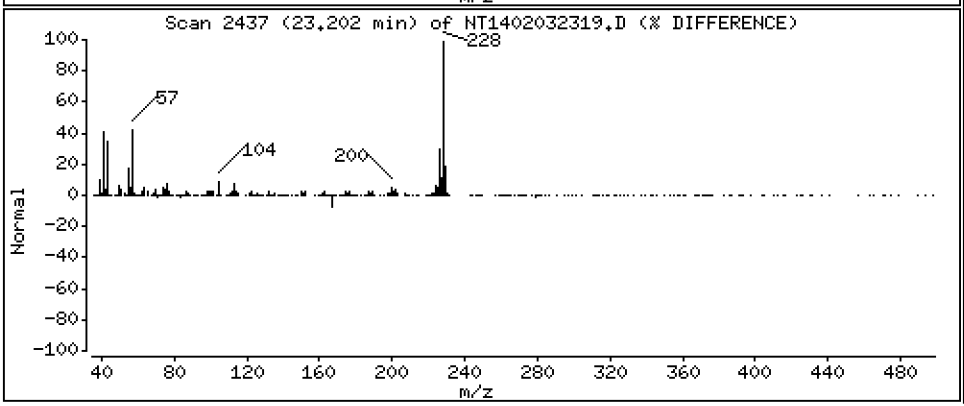
72 bis(2-Ethylhexyl)phthalate

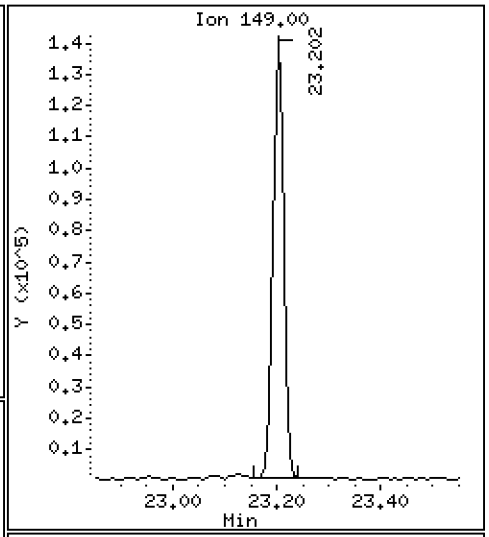
Concentration: 4.979 ug/mL

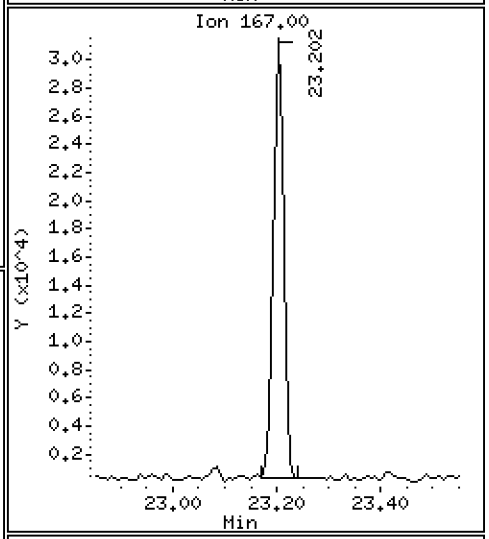


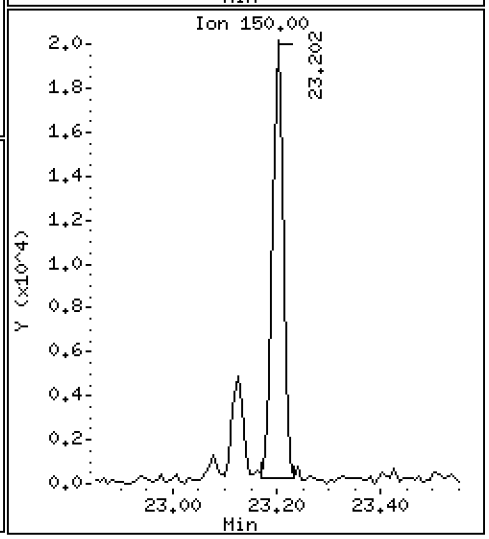












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

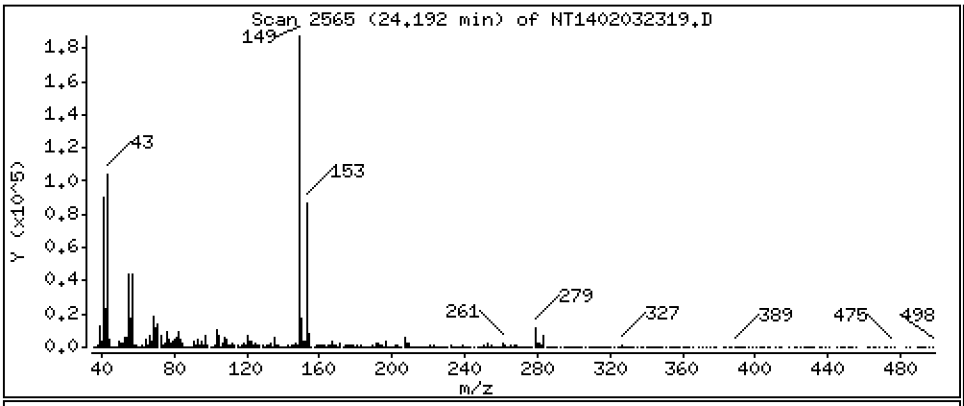
Operator: DSD

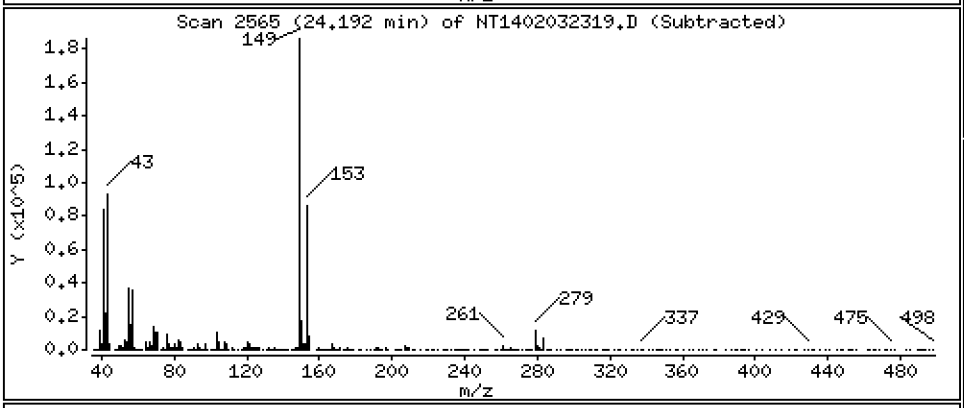
Column phase: ZB-5msi

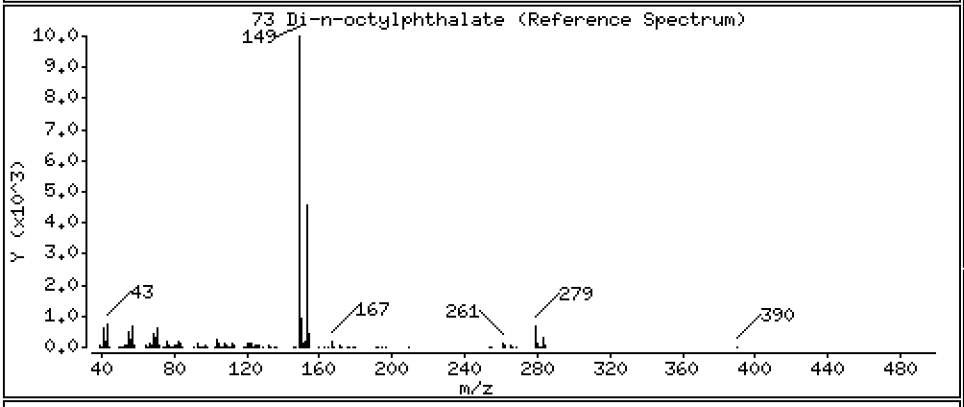
Column diameter: 0.25

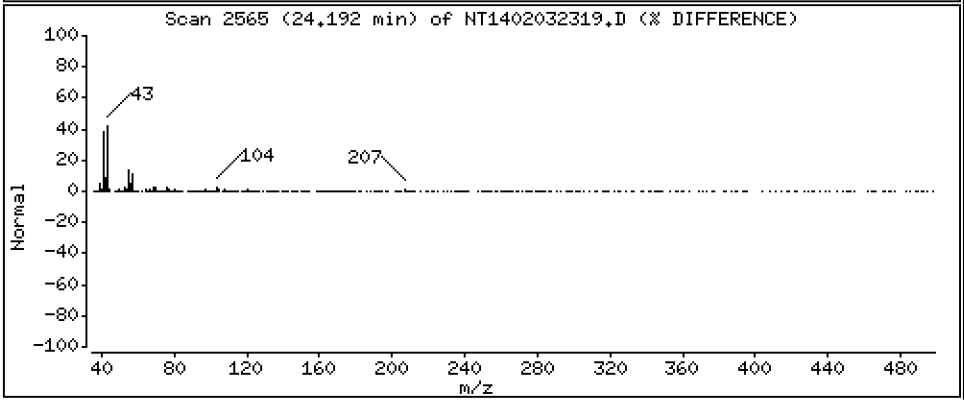
73 Di-n-octylphthalate

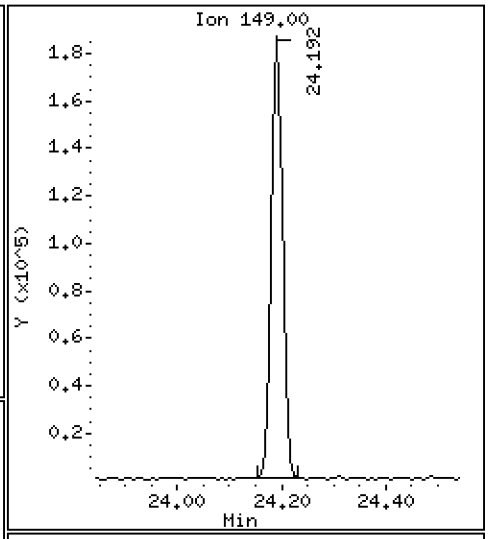
Concentration: 4.733 ug/mL

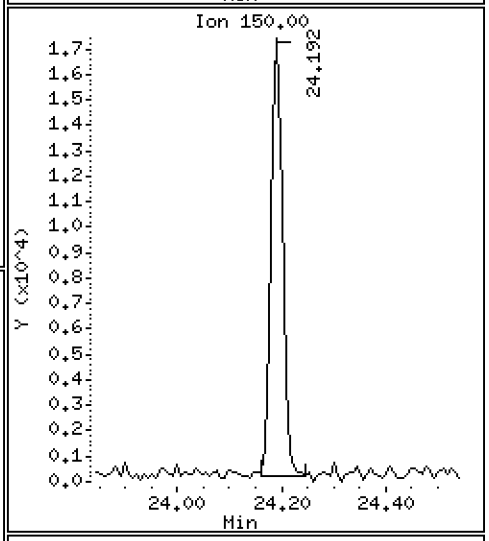


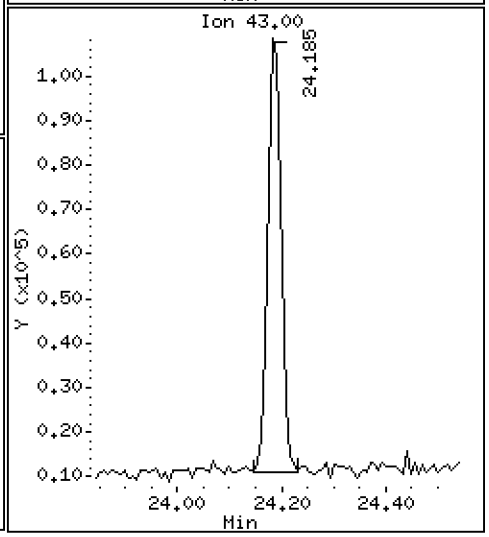












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

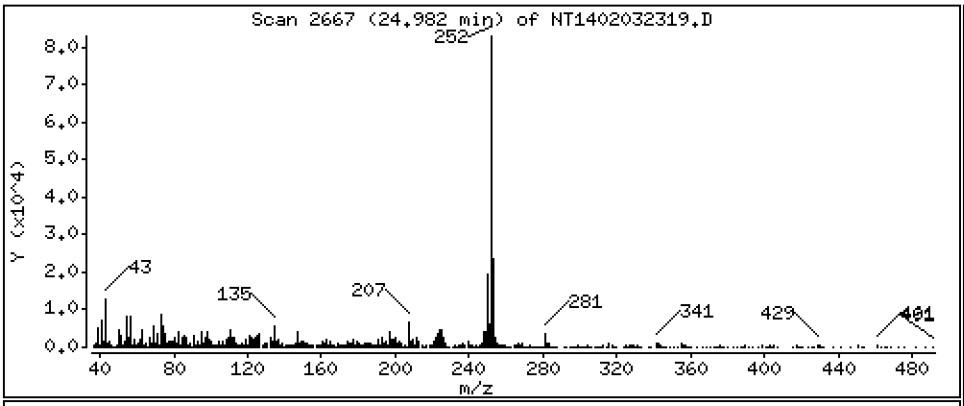
Operator: DSD

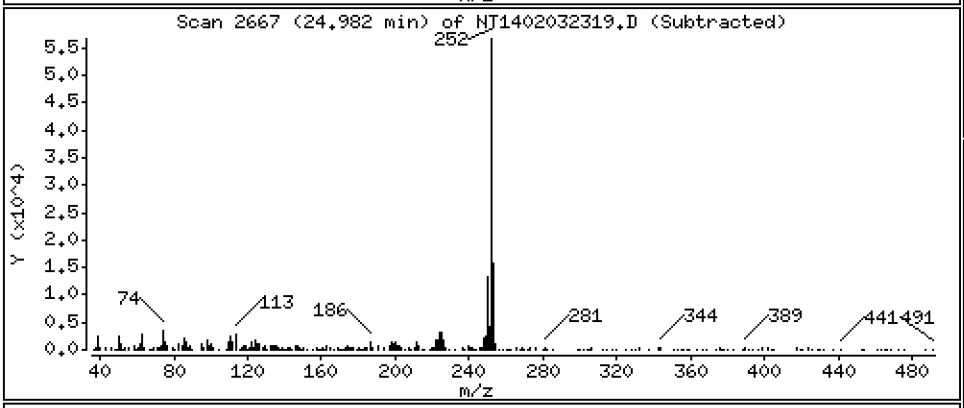
Column phase: ZB-5msi

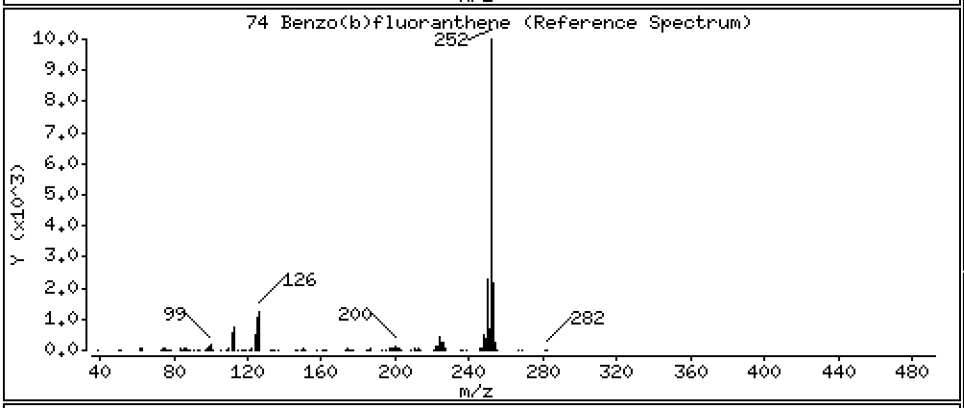
Column diameter: 0.25

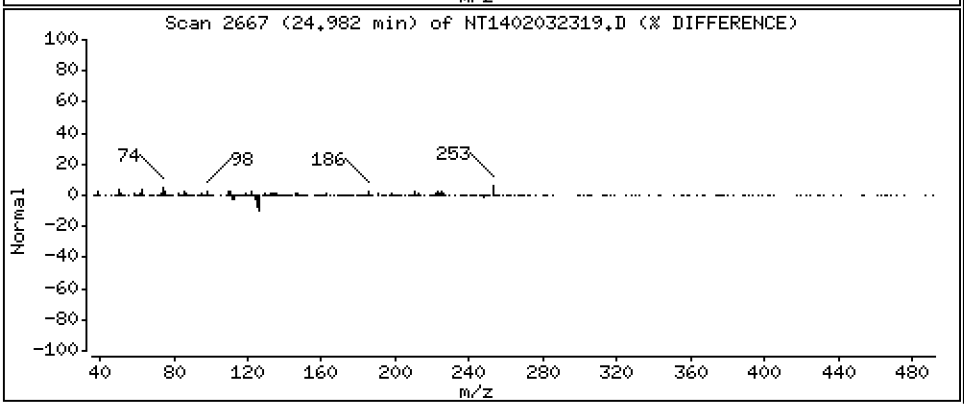
74 Benzo(b)fluoranthene

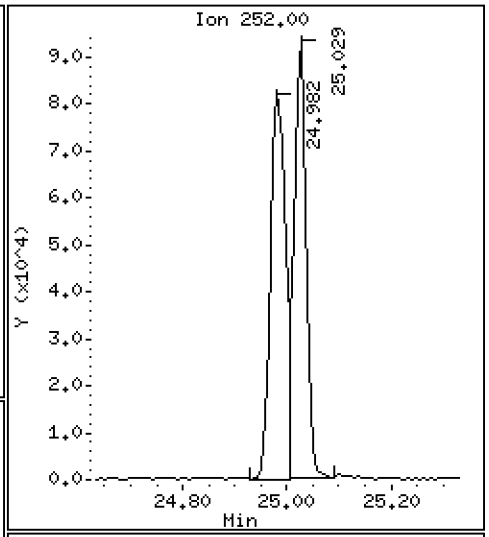
Concentration: 4.693 ug/mL

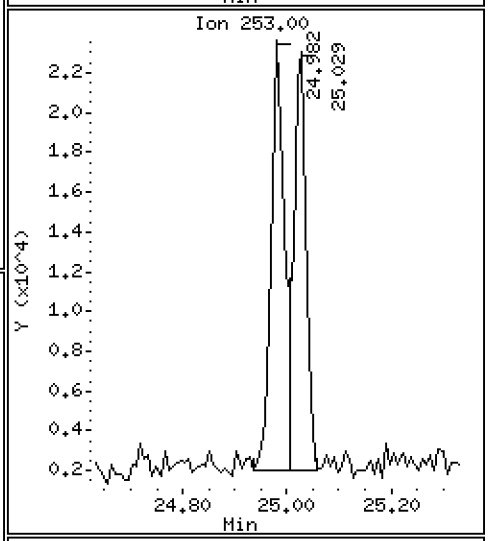


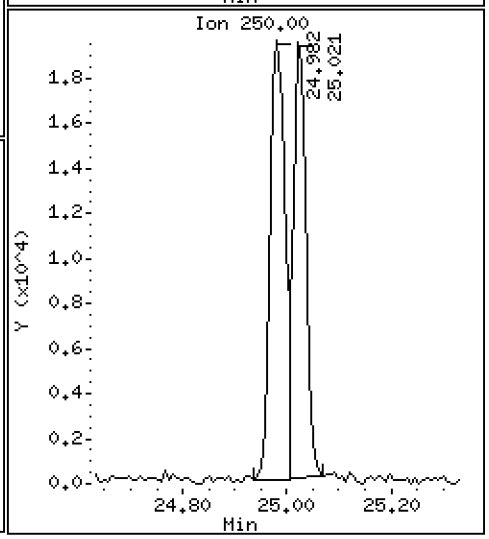












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

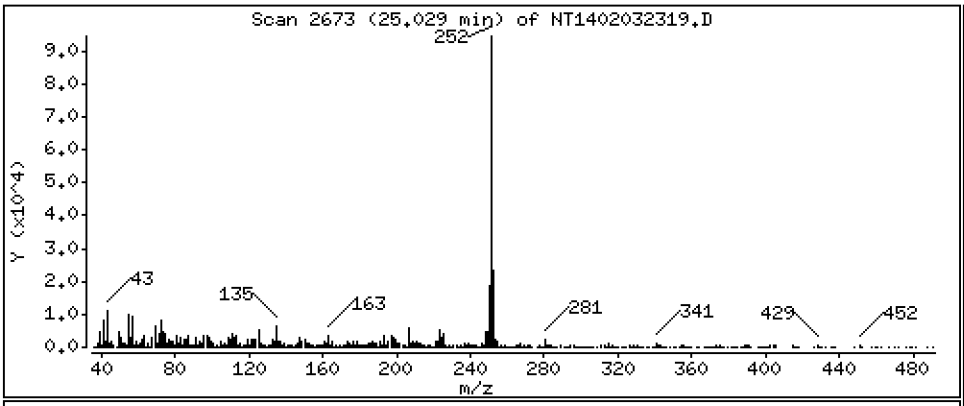
Operator: DSD

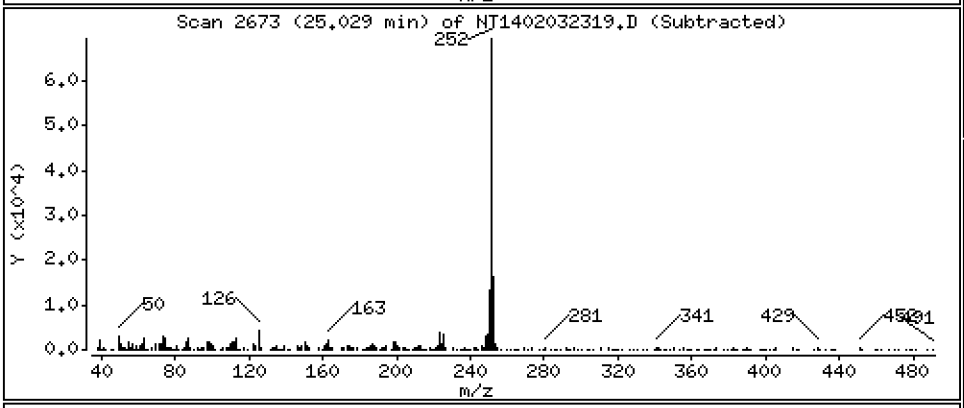
Column phase: ZB-5msi

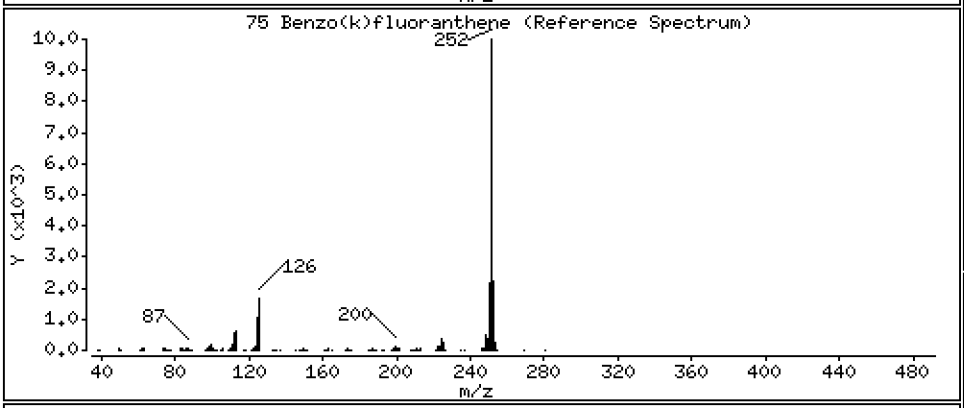
Column diameter: 0.25

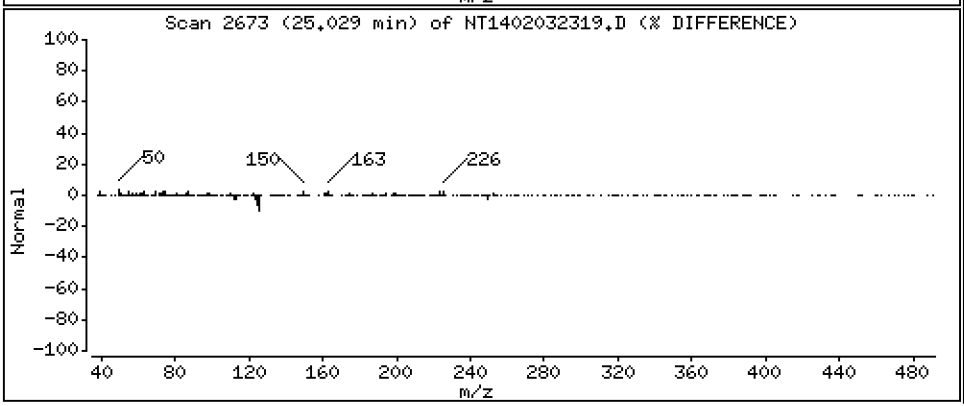
75 Benzo(k)fluoranthene

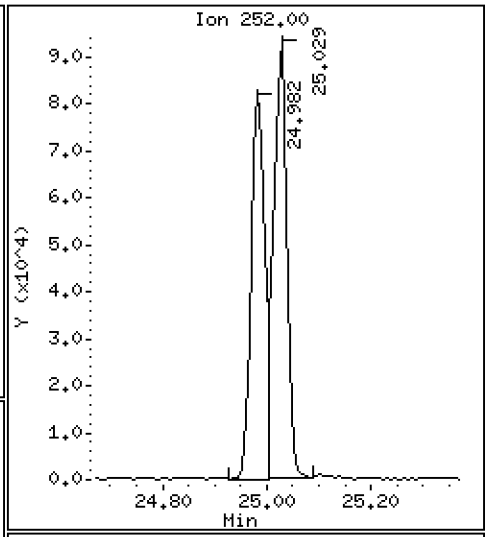
Concentration: 4.582 ug/mL

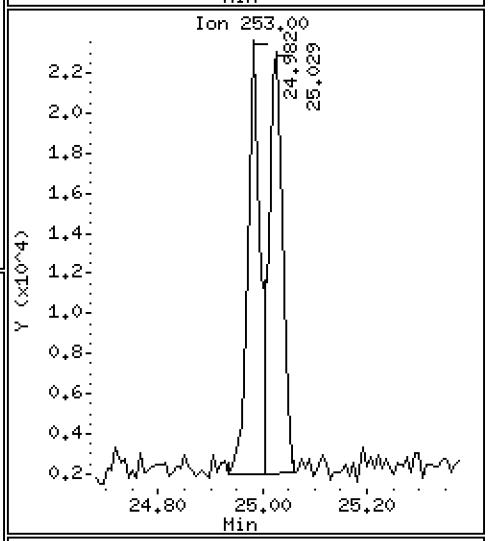


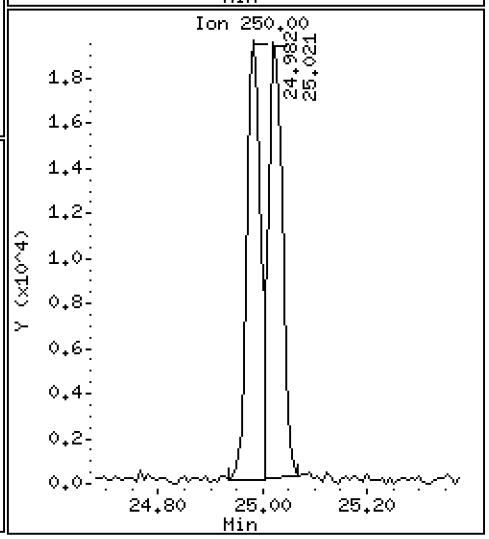












Date : 03-FEB-2023 23:57

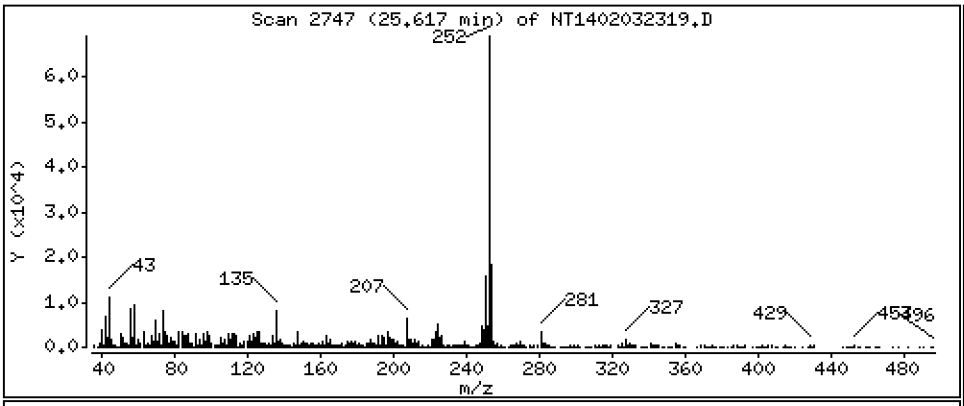
Client ID: Instrument: nt14.i

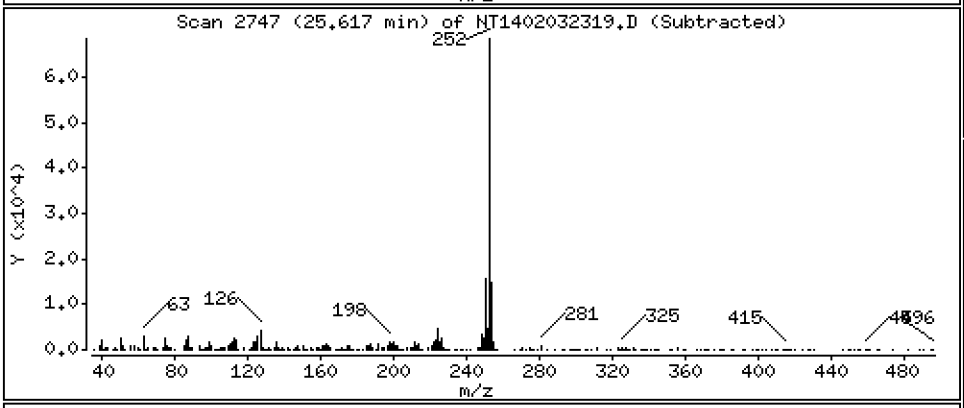
Sample Info: SLB0035-CCV1

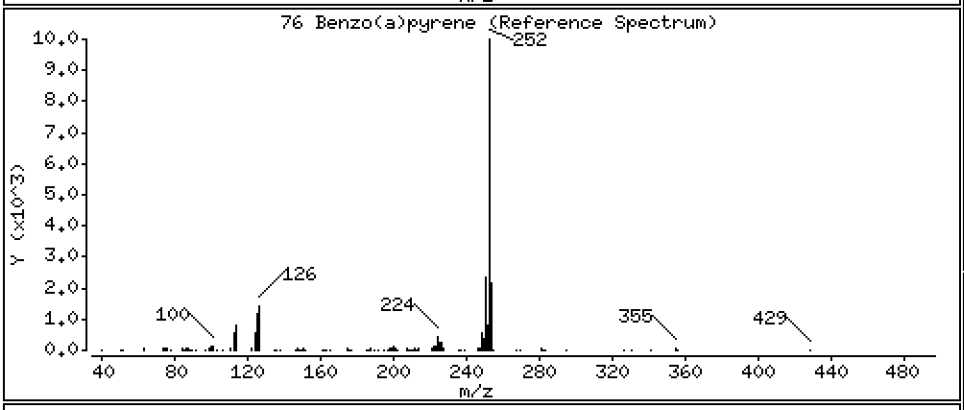
Operator: DSD

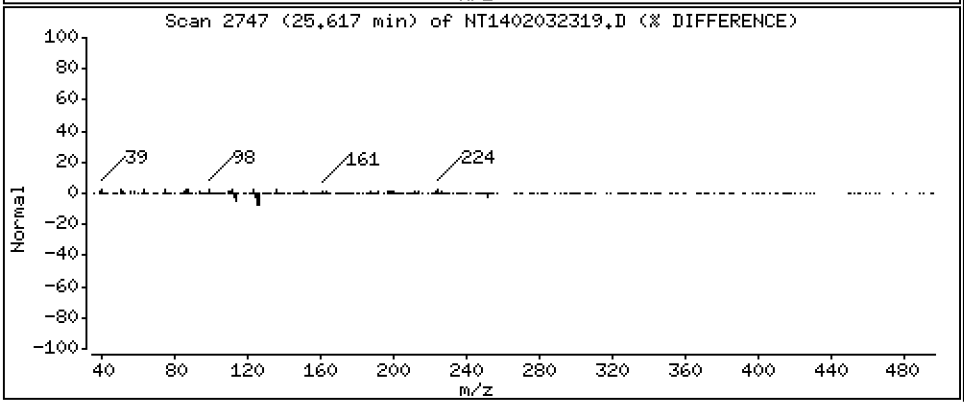
Column phase: ZB-5msi Column diameter: 0.25

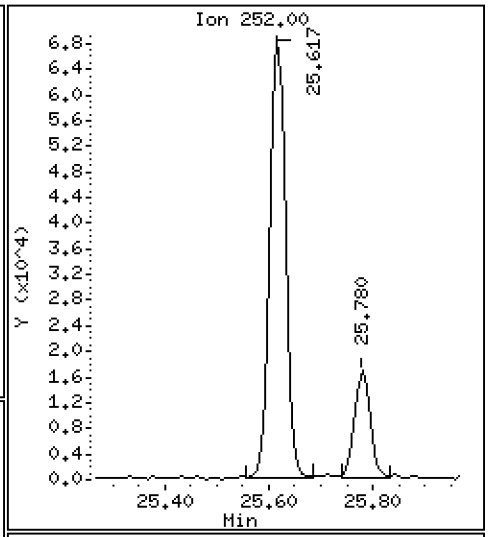
76 Benzo(a)pyrene Concentration: 4.658 ug/mL

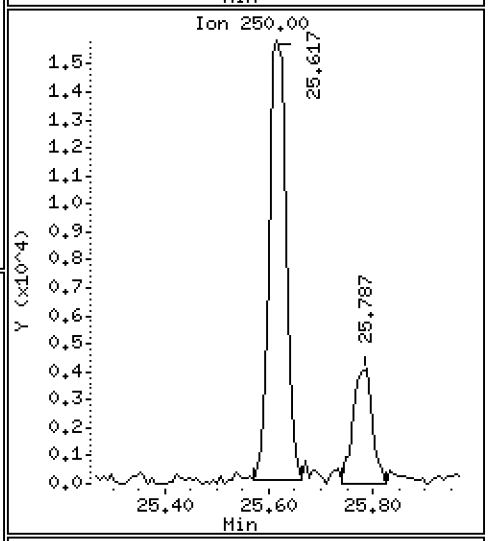


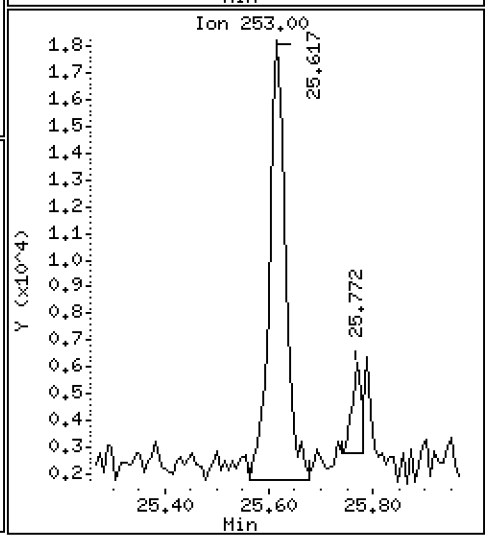












Date : 03-FEB-2023 23:57

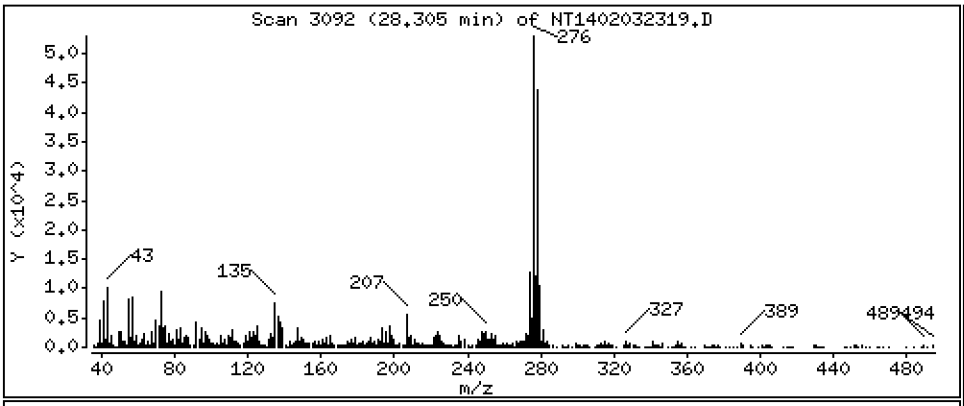
Client ID: Instrument: nt14.i

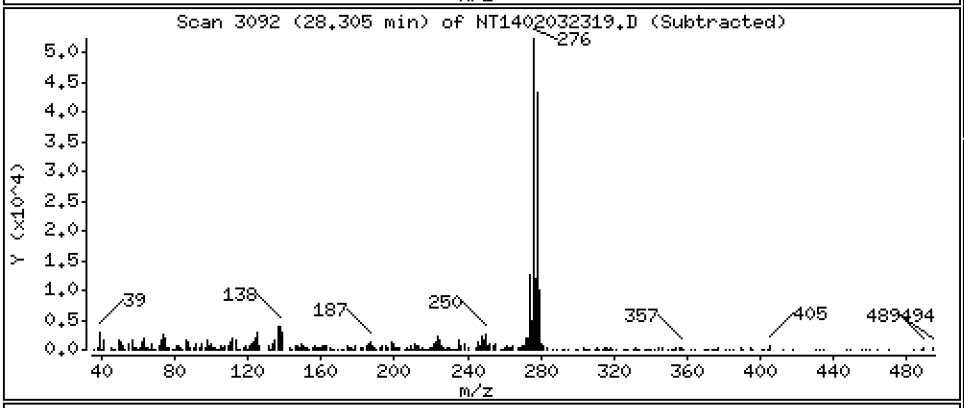
Sample Info: SLB0035-CCV1

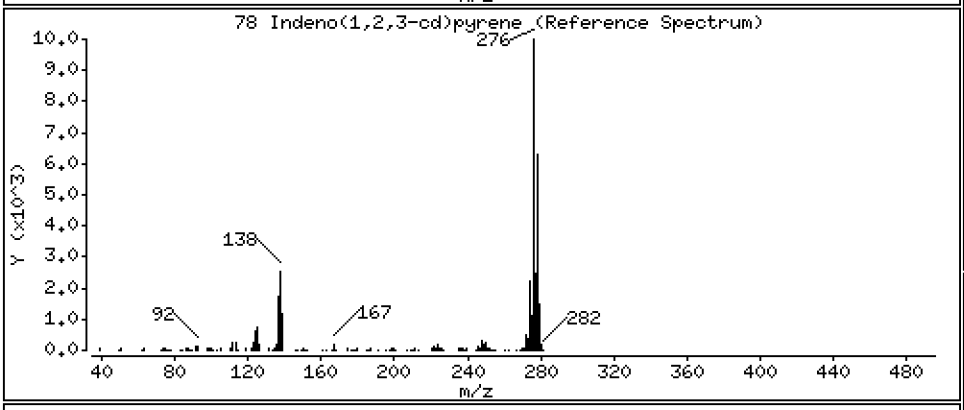
Operator: DSD

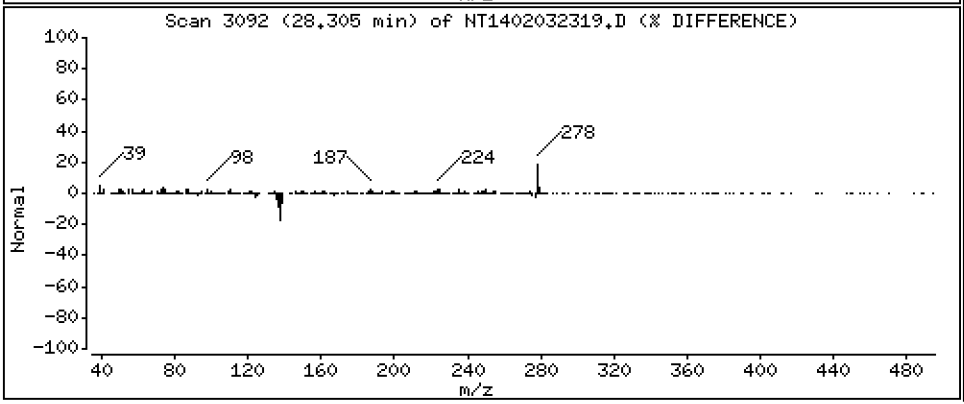
Column phase: ZB-5msi Column diameter: 0.25

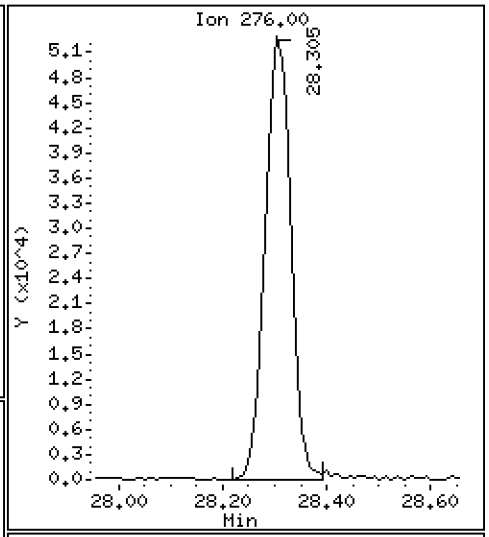
78 Indeno(1,2,3-cd)pyrene Concentration: 4.788 ug/mL

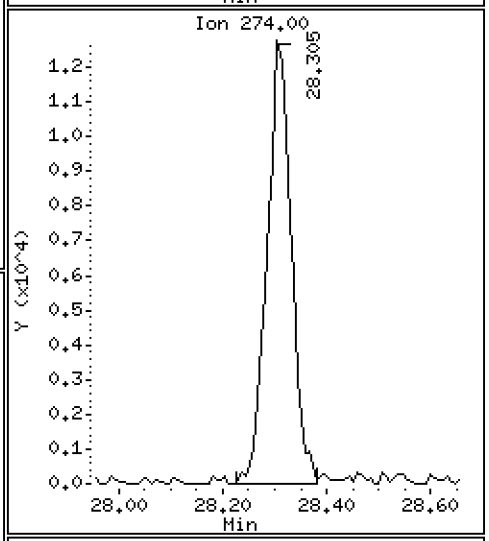


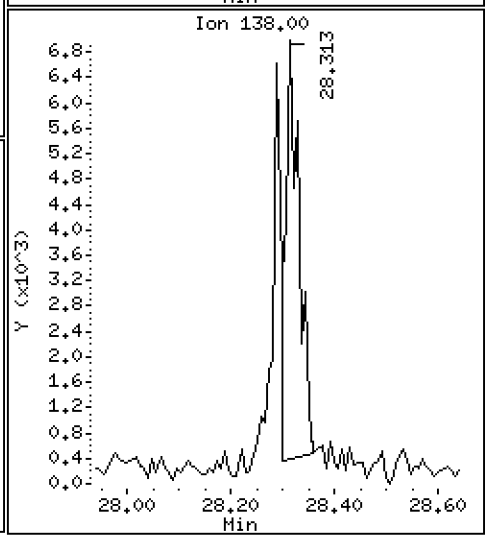












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

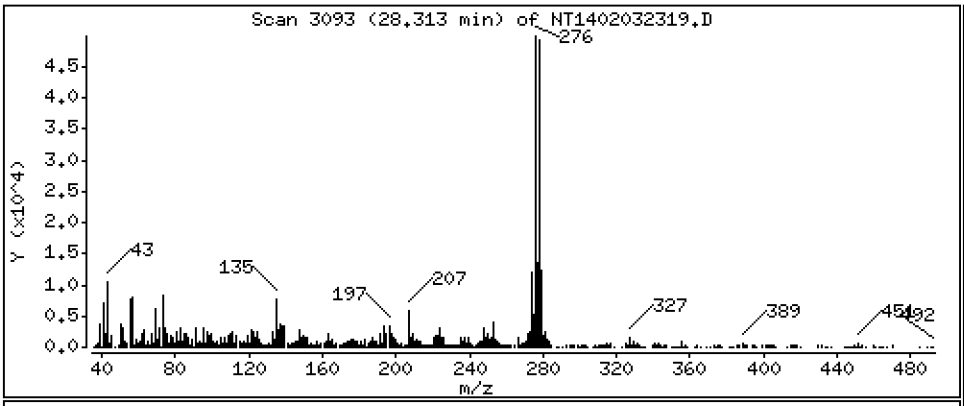
Operator: DSD

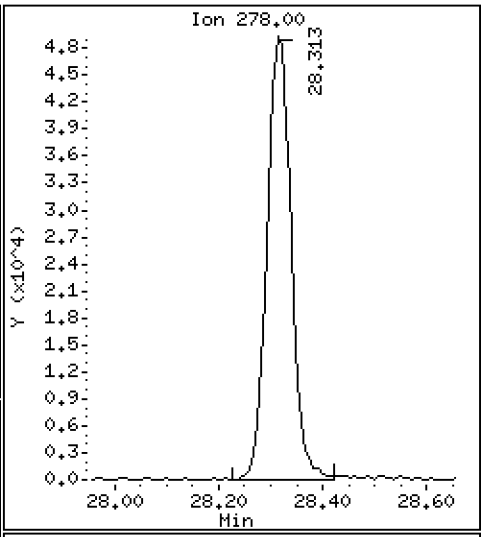
Column phase: ZB-5msi

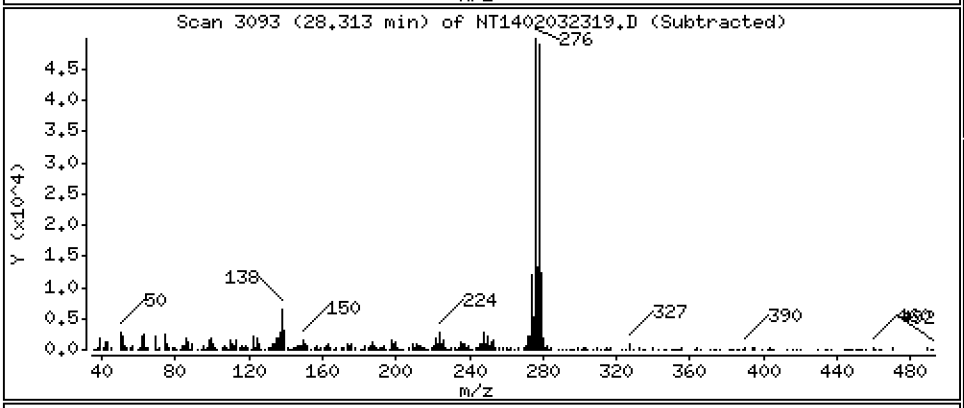
Column diameter: 0.25

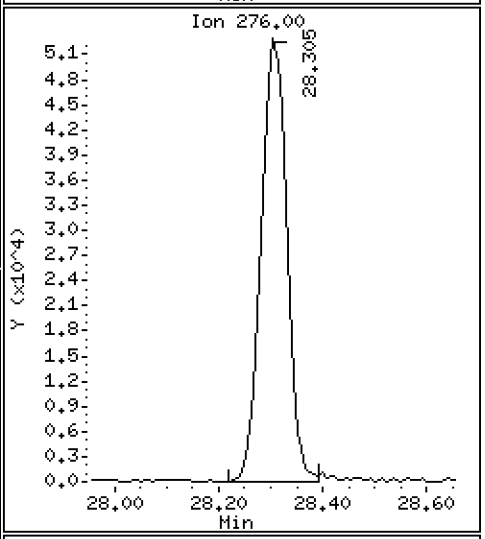
79 Dibenzo(a,h)anthracene

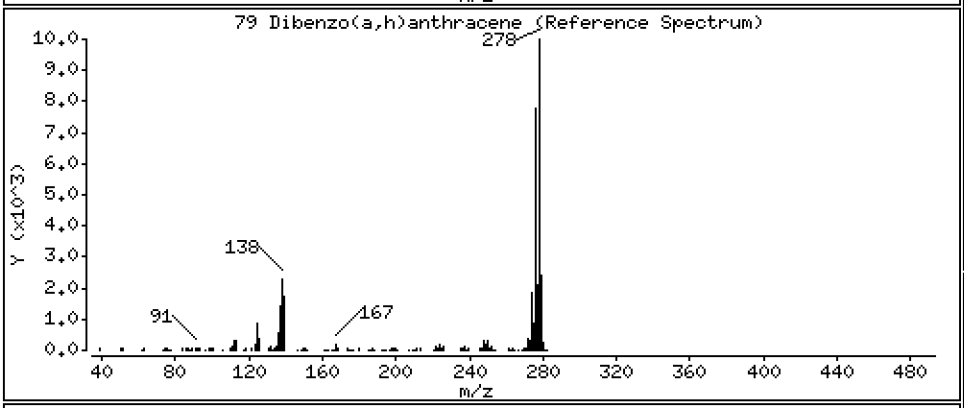
Concentration: 4.842 ug/mL

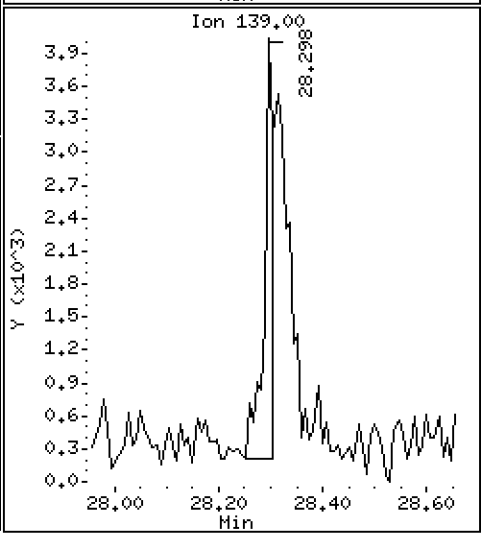


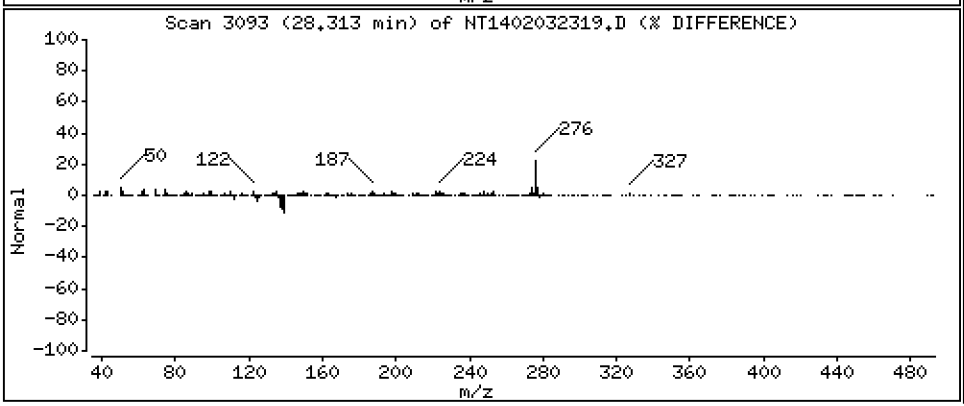












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

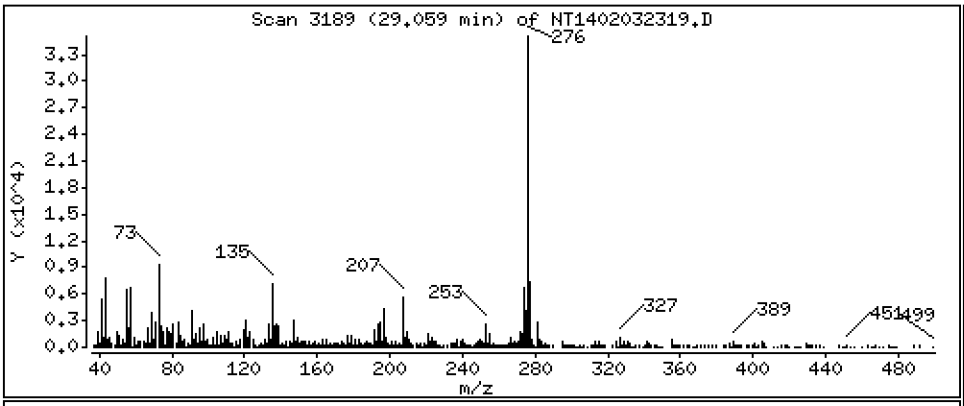
Operator: DSD

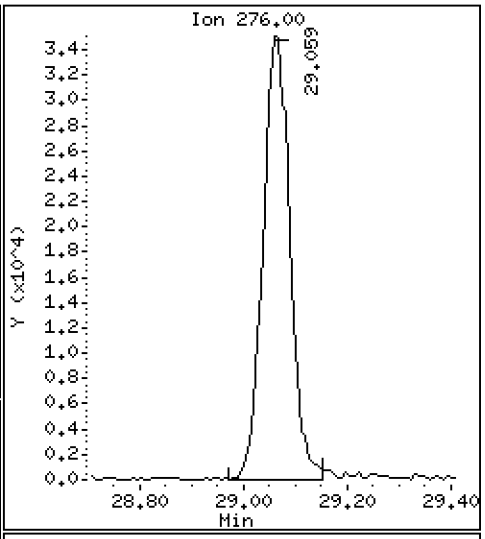
Column phase: ZB-5msi

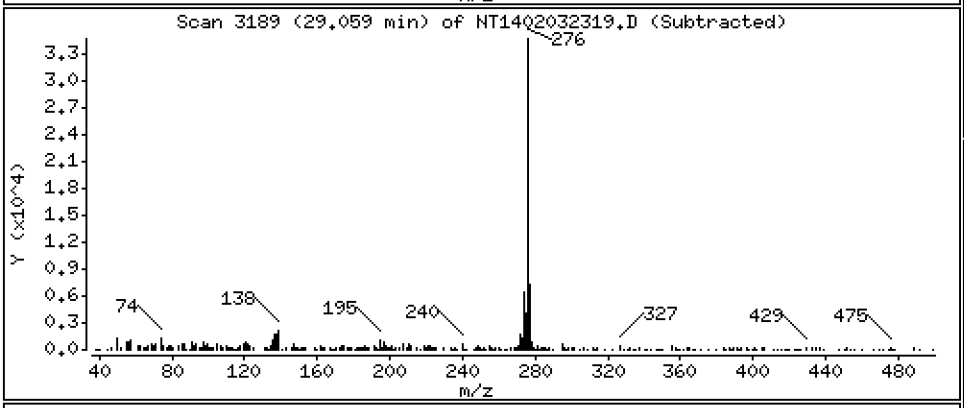
Column diameter: 0.25

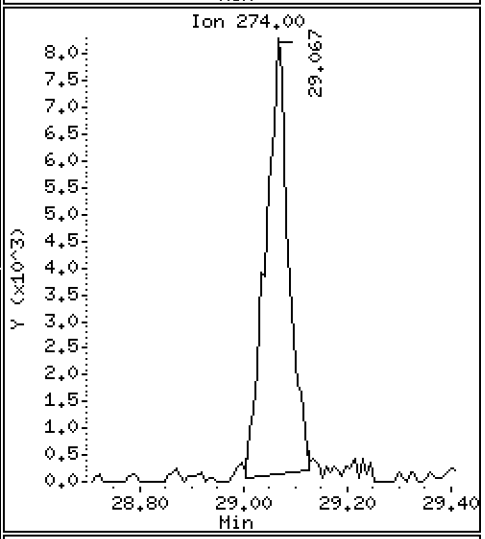
80 Benzo(g,h,i)perylene

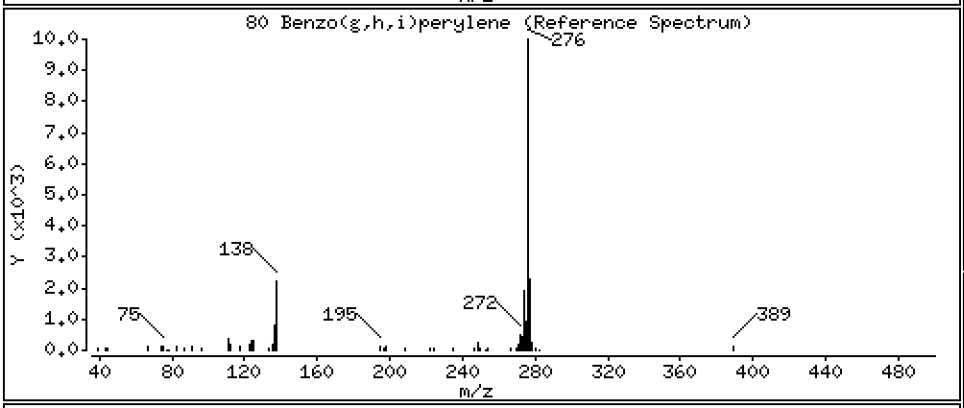
Concentration: 4.511 ug/mL

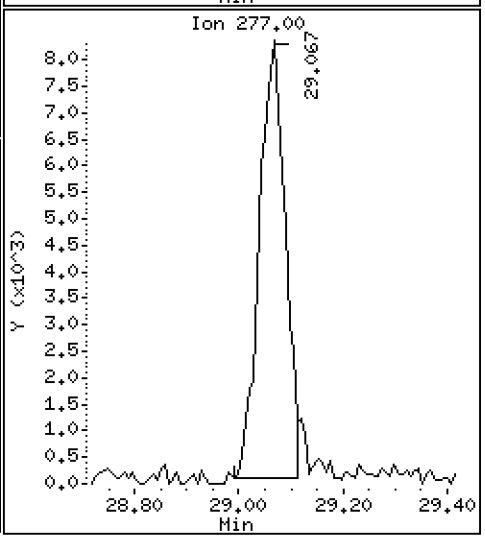


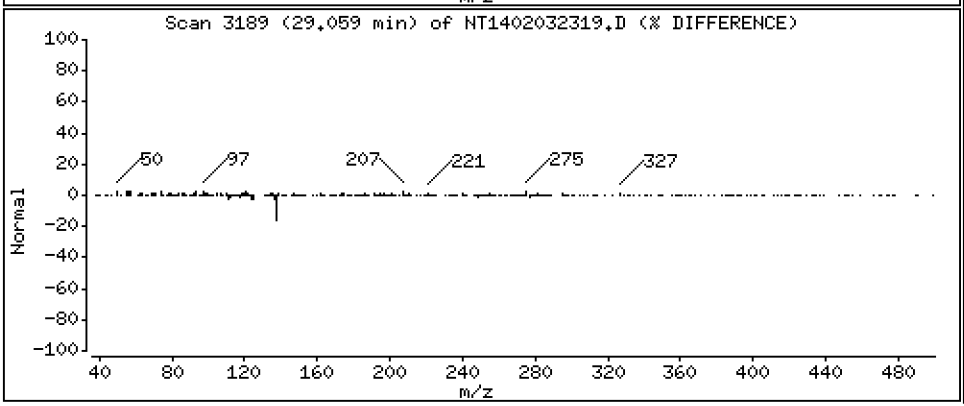












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

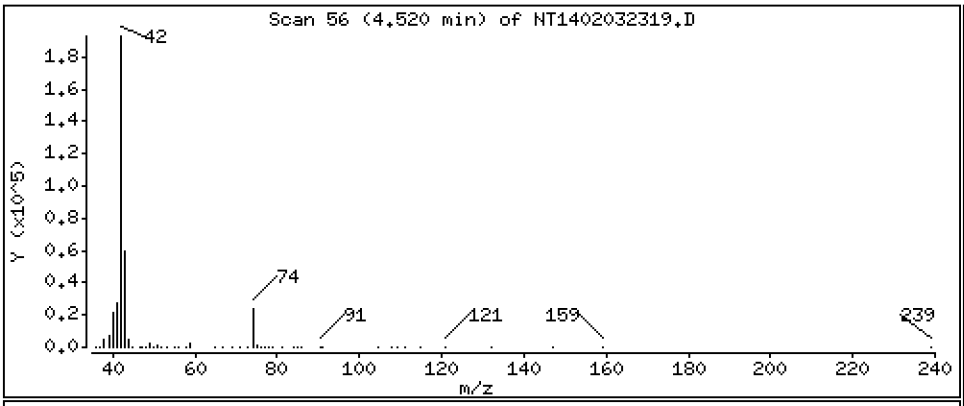
Operator: DSD

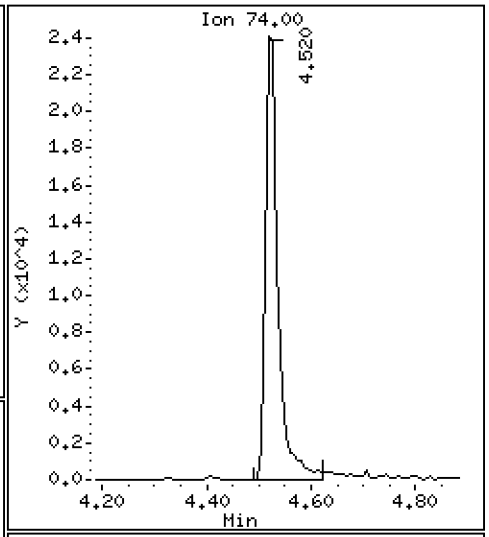
Column phase: ZB-5msi

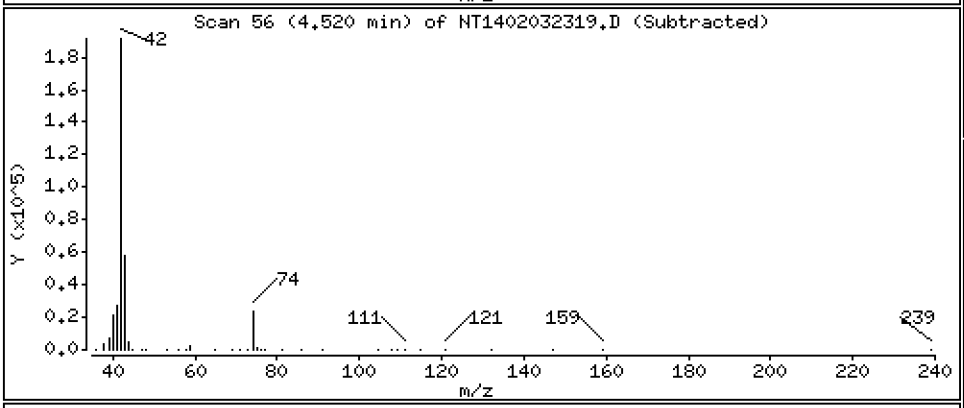
Column diameter: 0.25

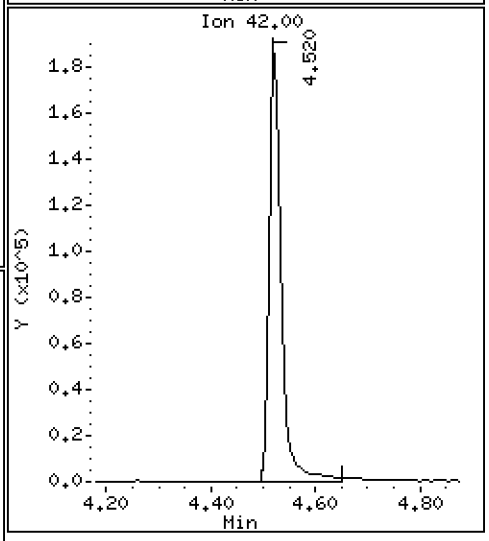
90 N-Nitrosodimethylamine

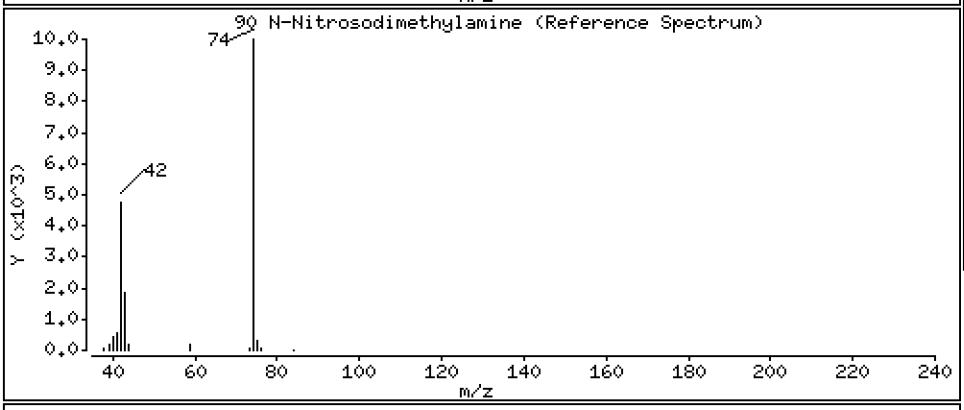
Concentration: 4.187 ug/mL

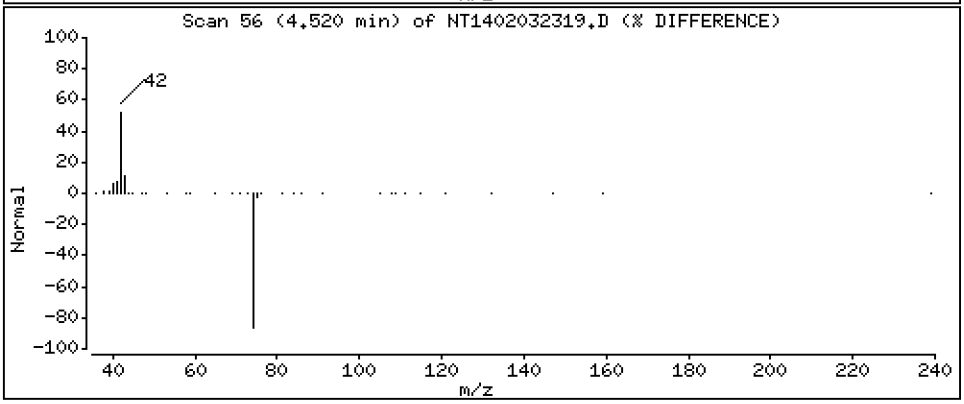












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

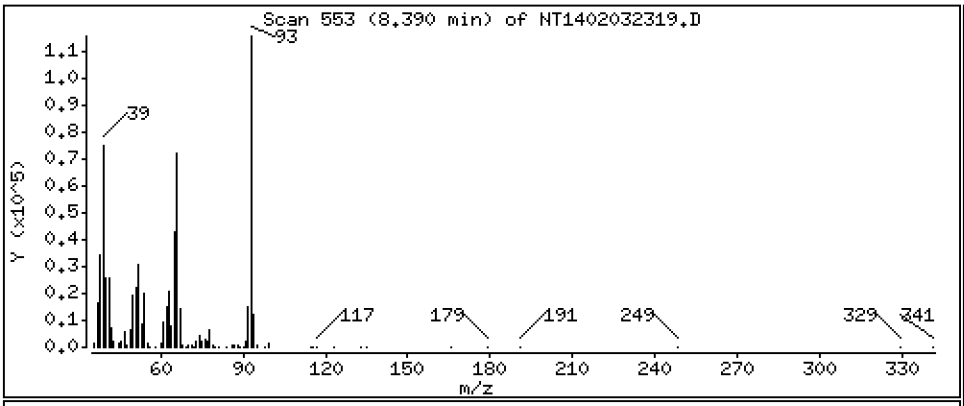
Operator: DSD

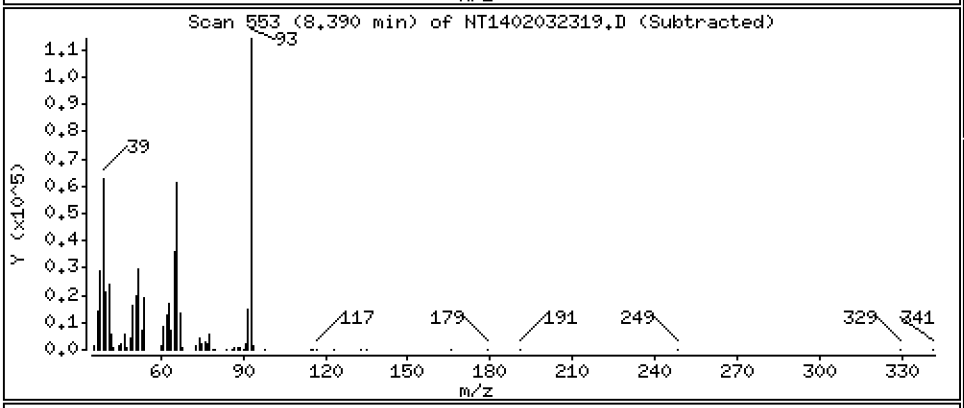
Column phase: ZB-5msi

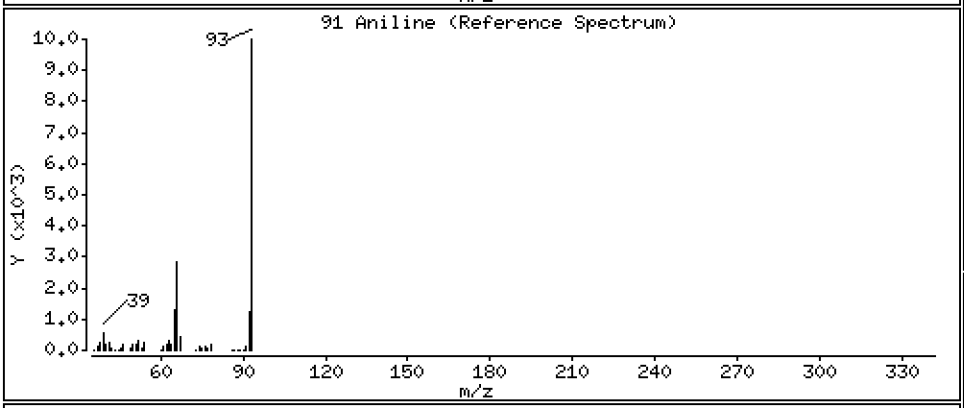
Column diameter: 0.25

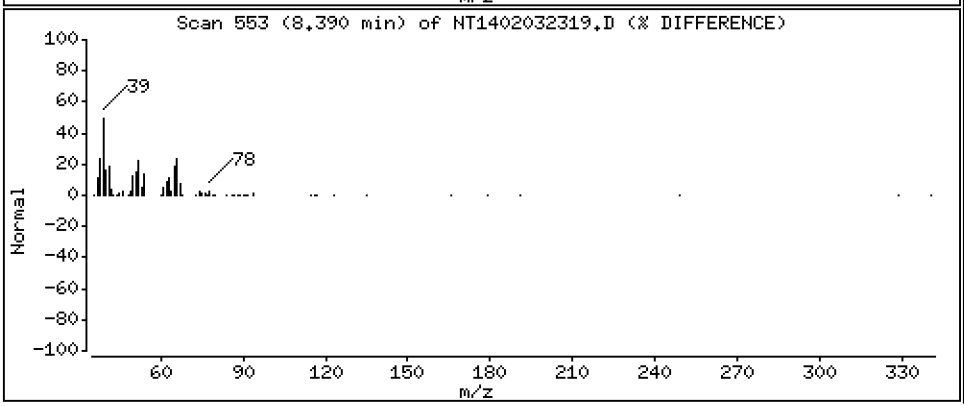
91 Aniline

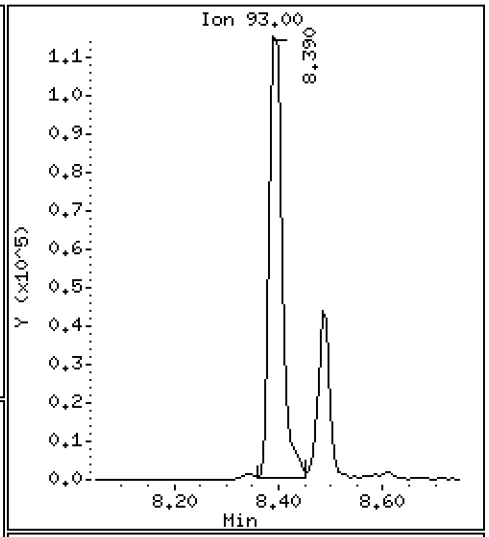
Concentration: 8.720 ug/mL

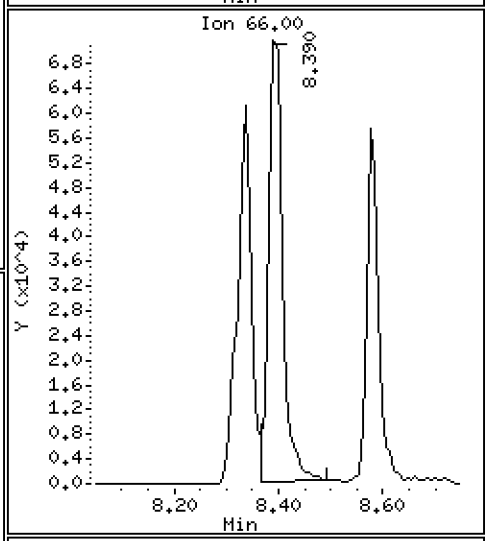


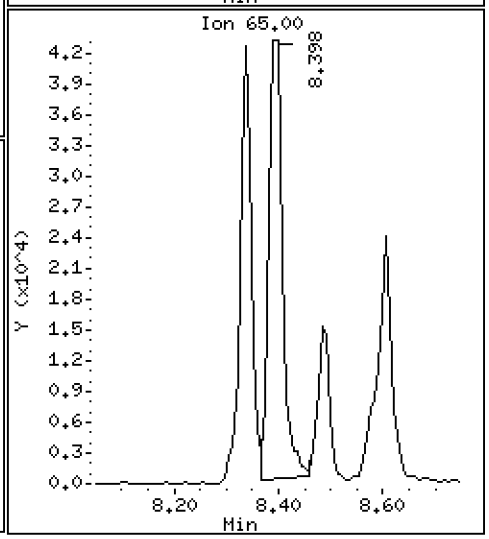












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

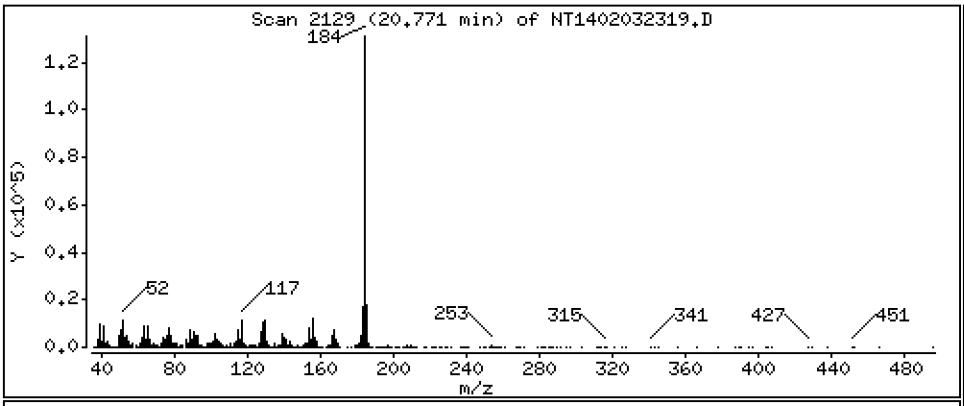
Operator: DSD

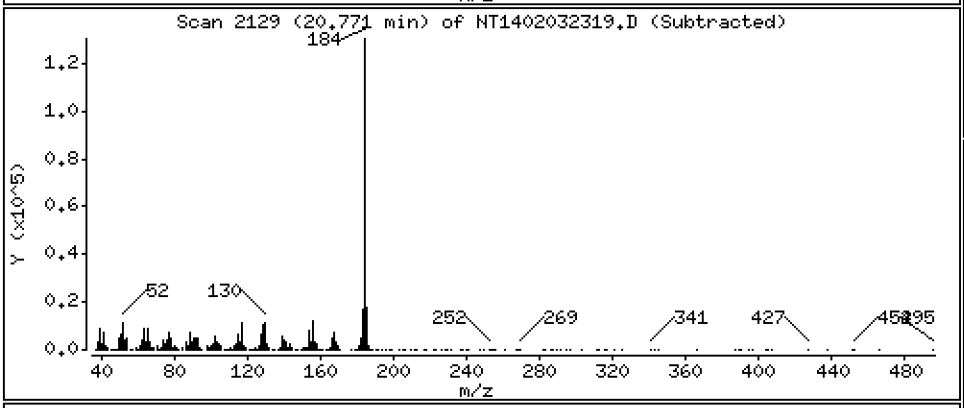
Column phase: ZB-5msi

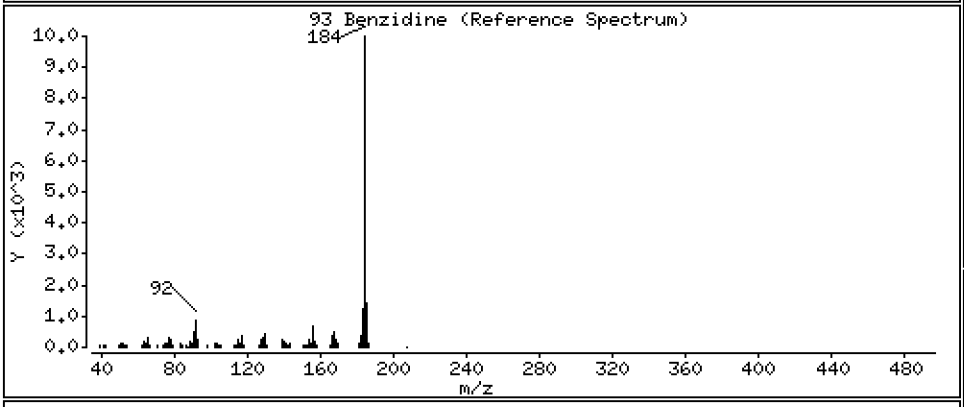
Column diameter: 0.25

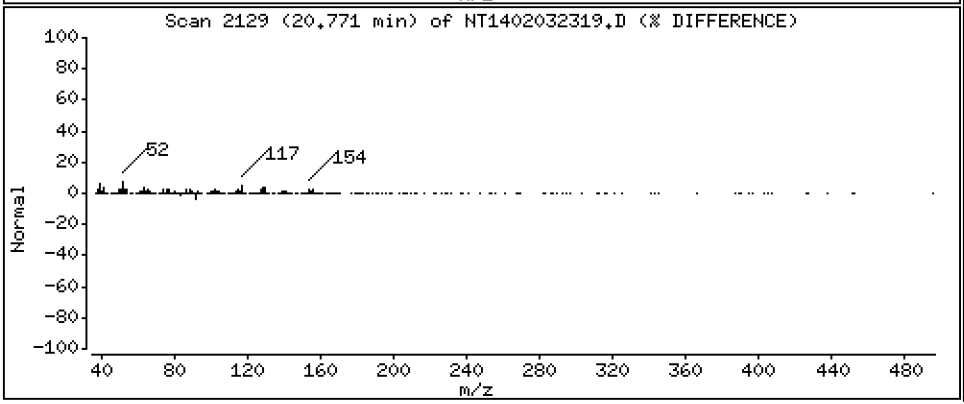
93 Benzidine

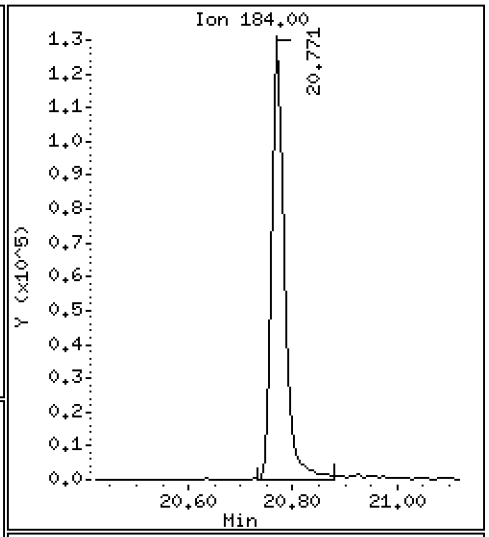
Concentration: 11.90 ug/mL

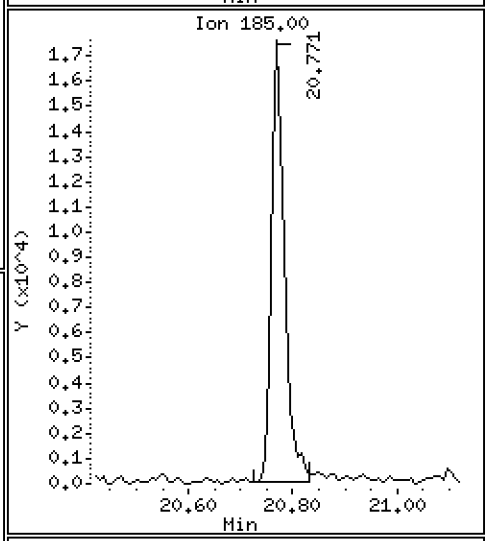


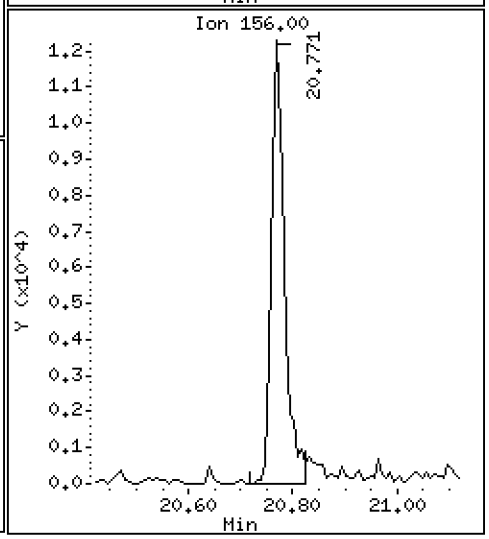












Data File: \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D

Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

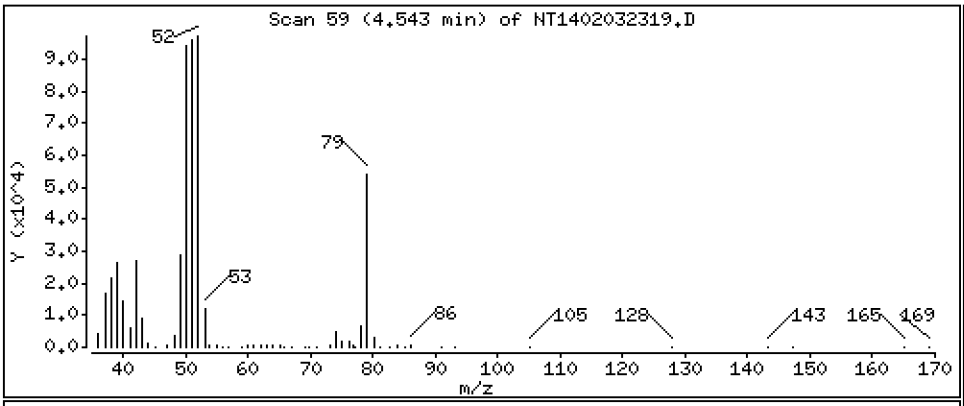
Operator: DSD

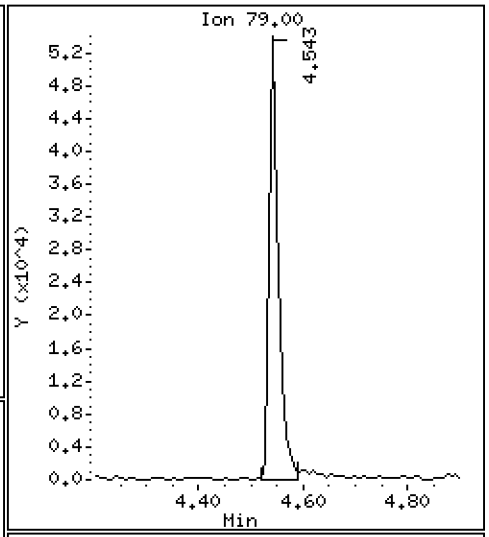
Column phase: ZB-5msi

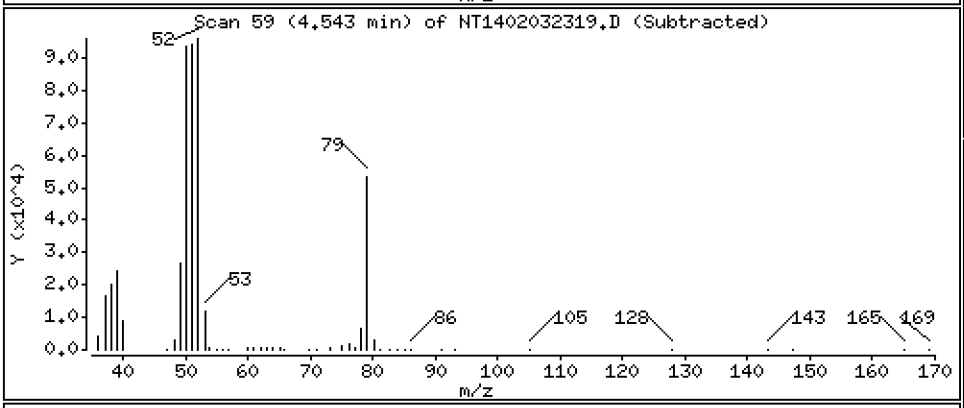
Column diameter: 0.25

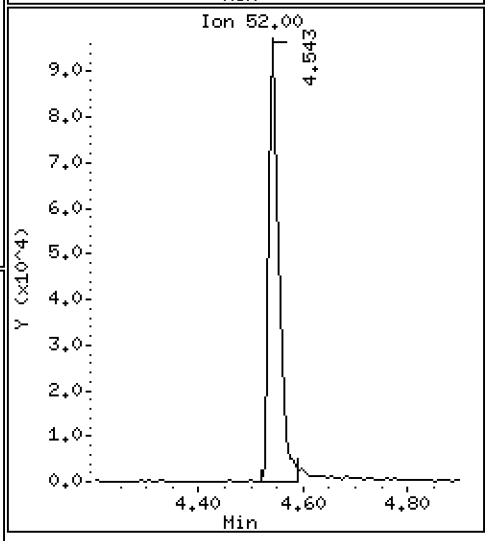
103 Pyridine

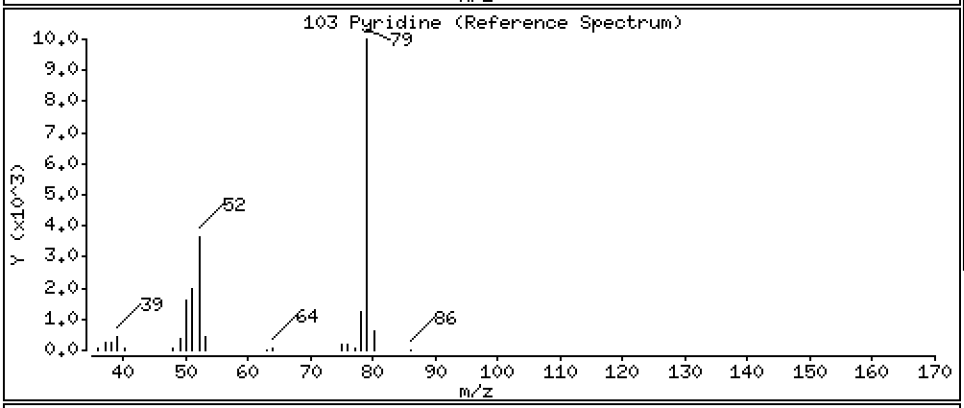
Concentration: 2.323 ug/mL

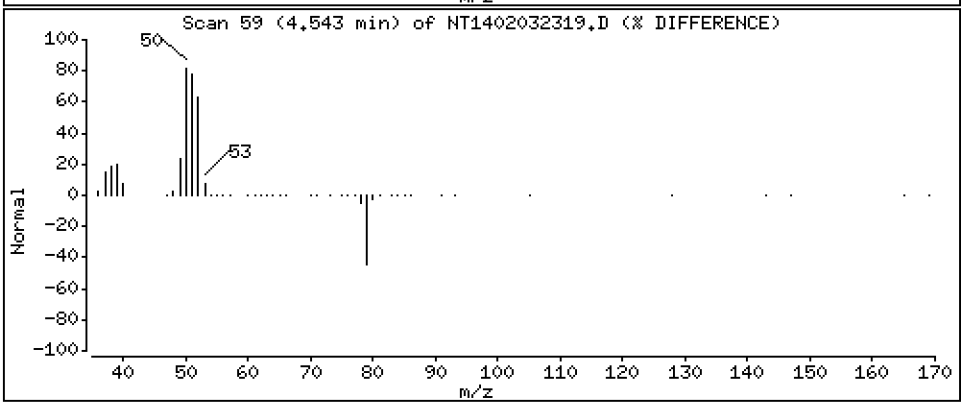












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

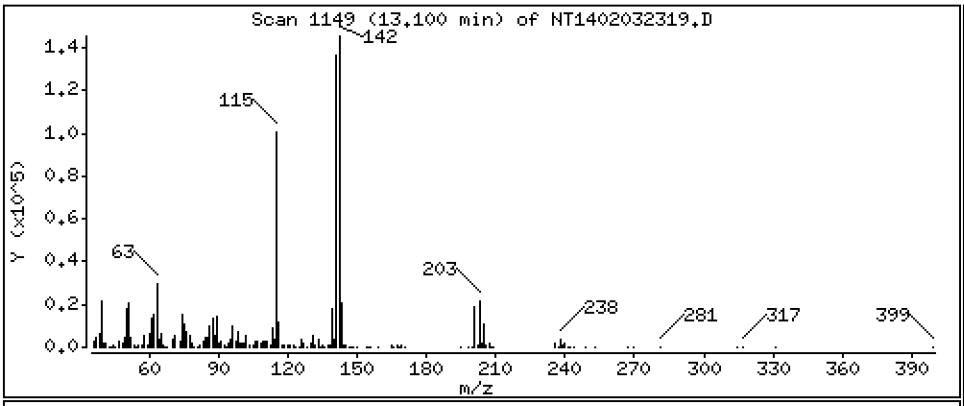
Operator: DSD

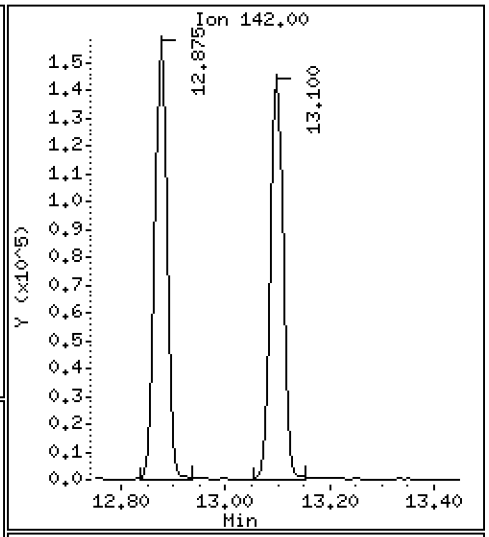
Column phase: ZB-5msi

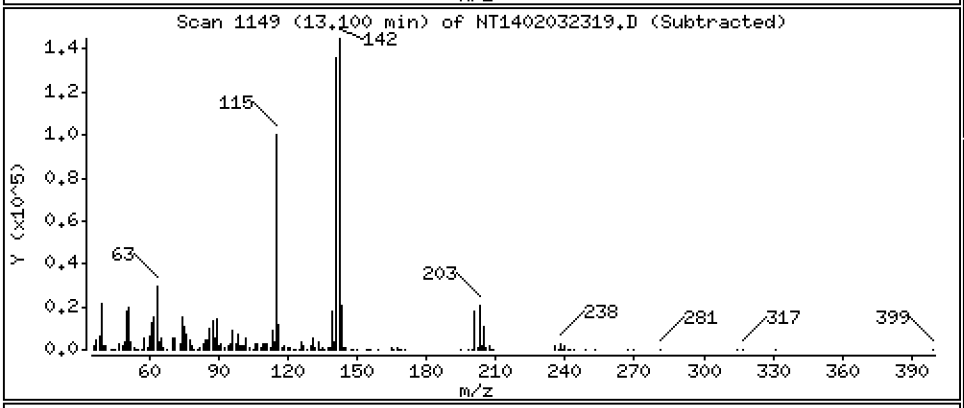
Column diameter: 0.25

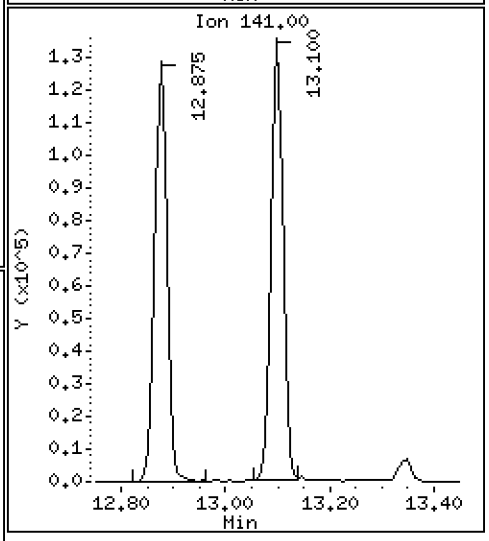
105 1-methylnaphthalene

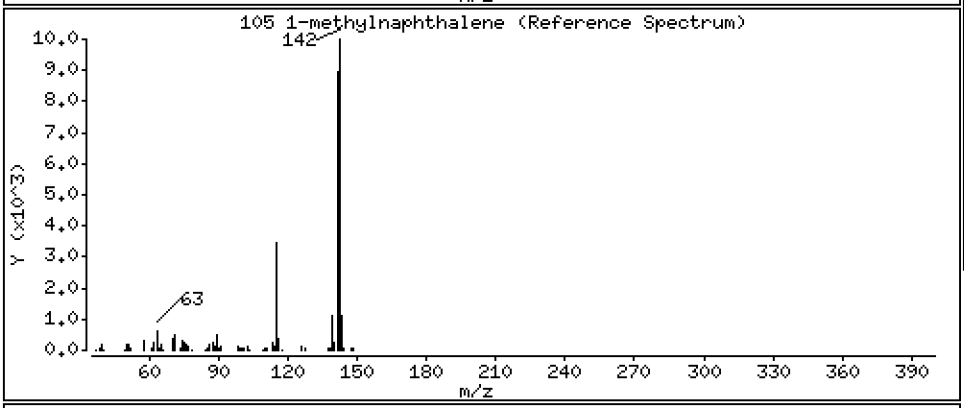
Concentration: 4.788 ug/mL

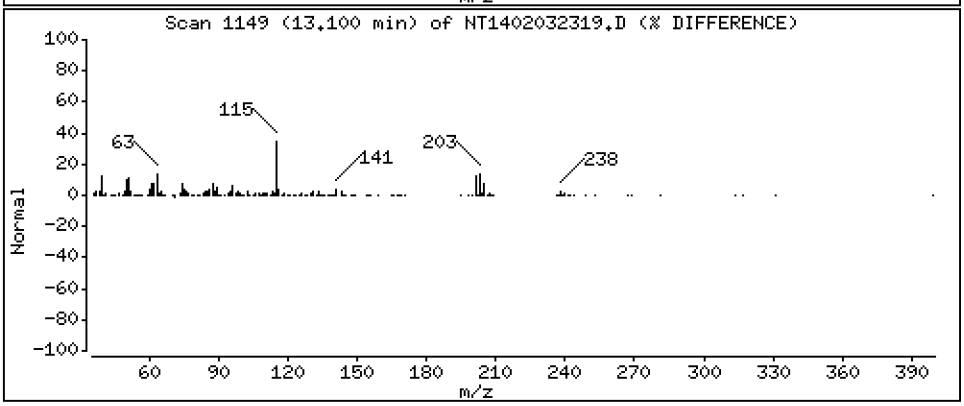












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

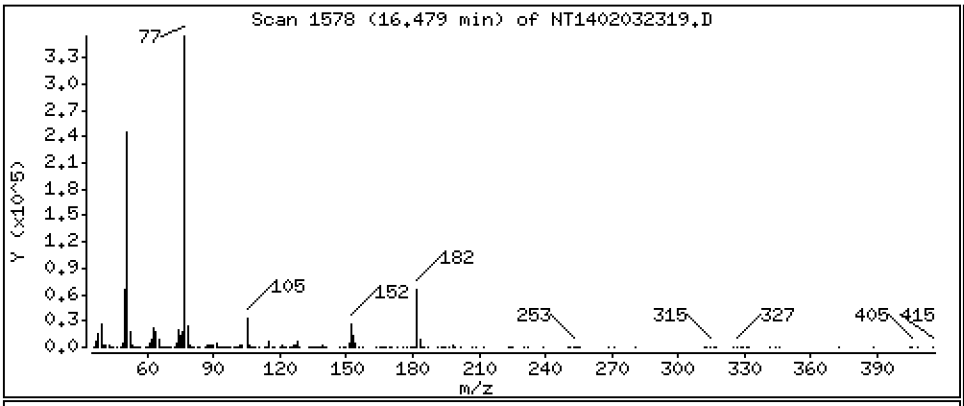
Operator: DSD

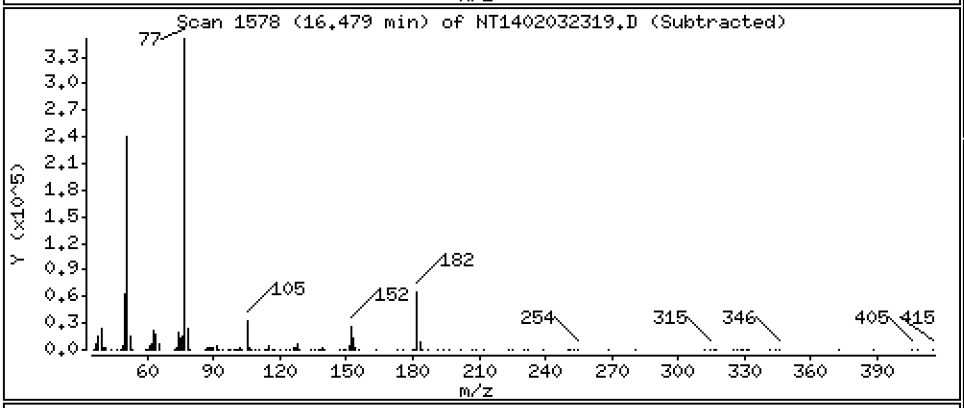
Column phase: ZB-5msi

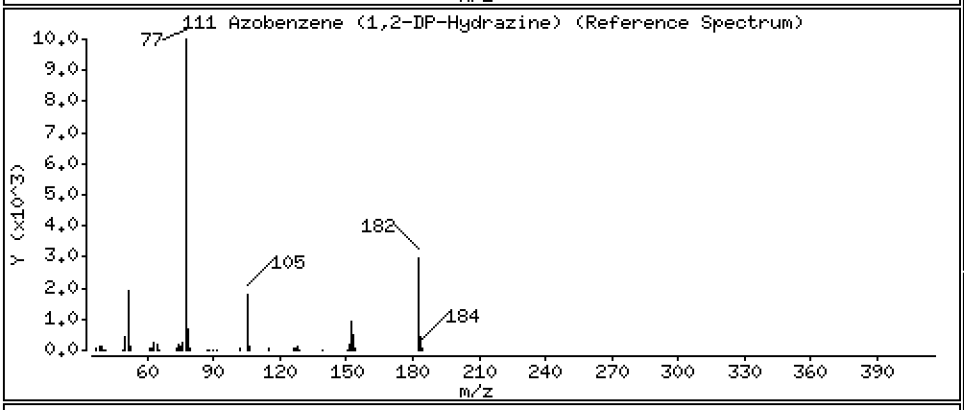
Column diameter: 0.25

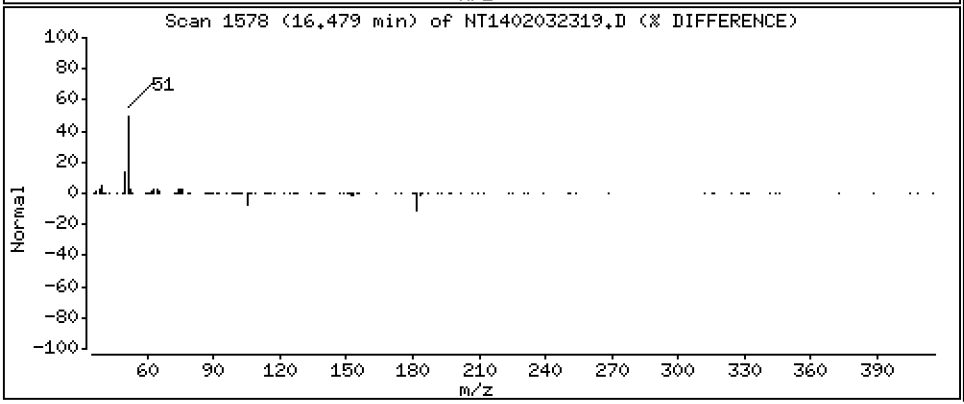
111 Azobenzene (1,2-DP-Hydrazine)

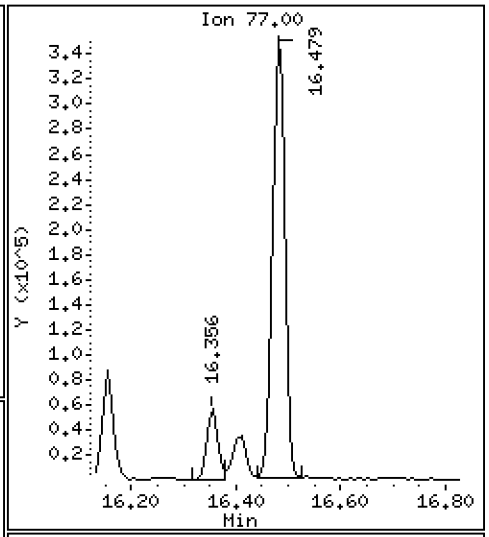
Concentration: 4.517 ug/mL

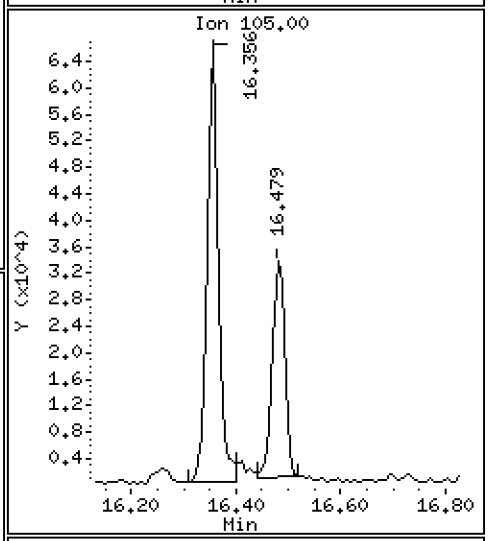


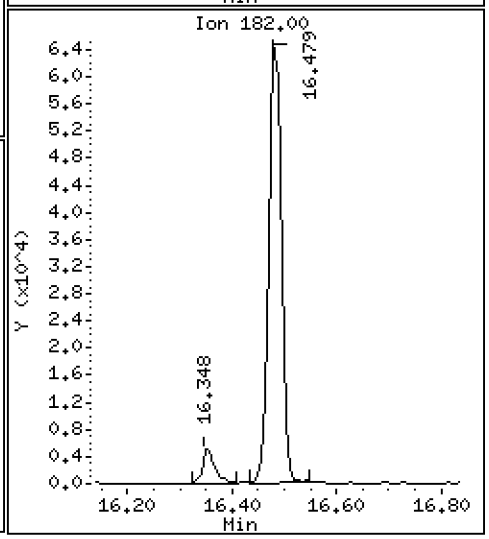












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

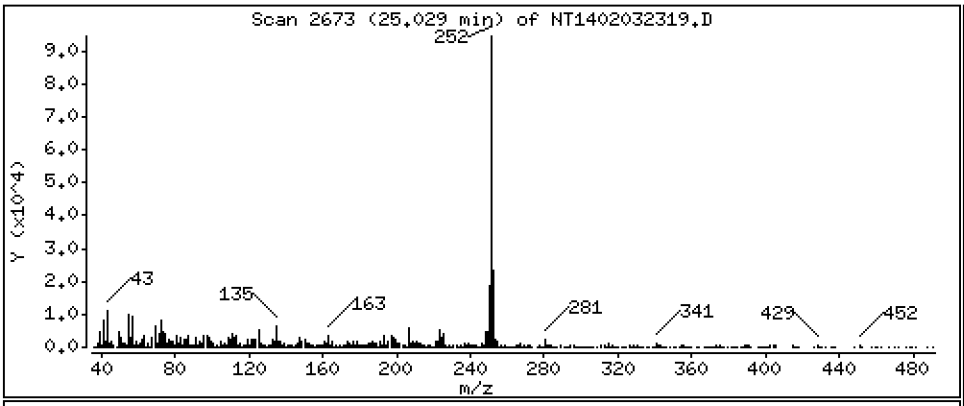
Operator: DSD

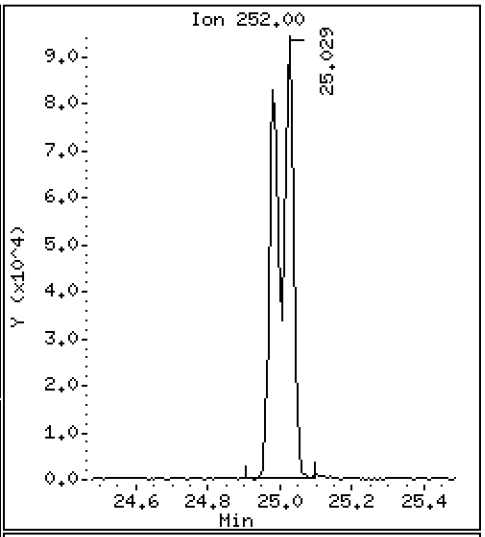
Column phase: ZB-5msi

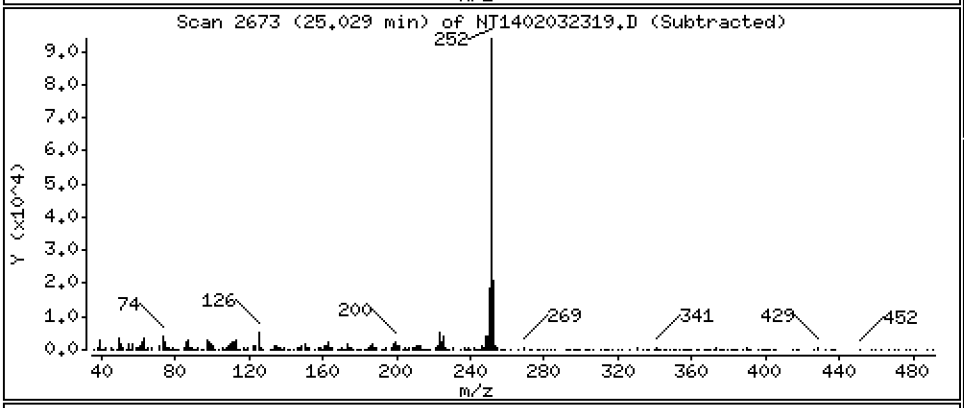
Column diameter: 0.25

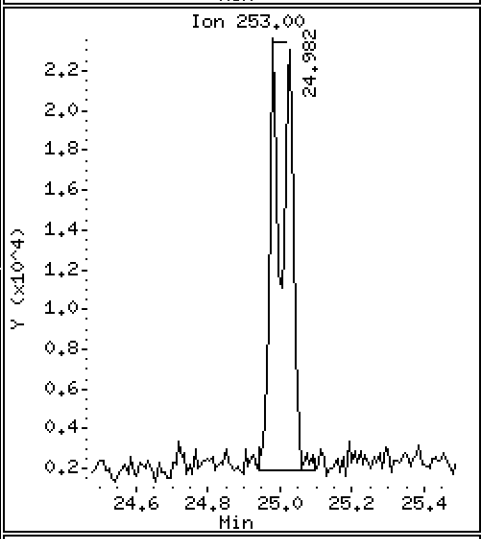
187 Total Benzofluoranthenes

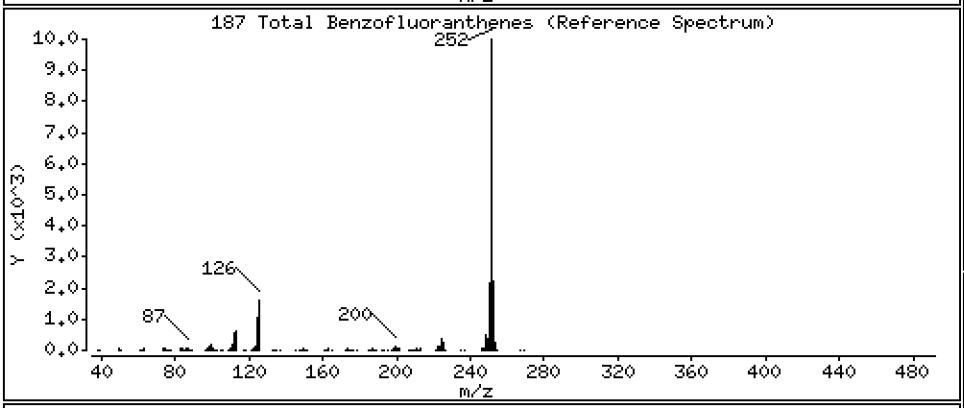
Concentration: 9.143 ug/mL

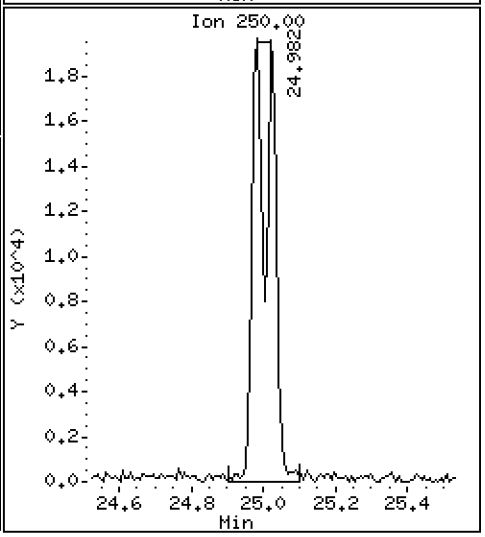


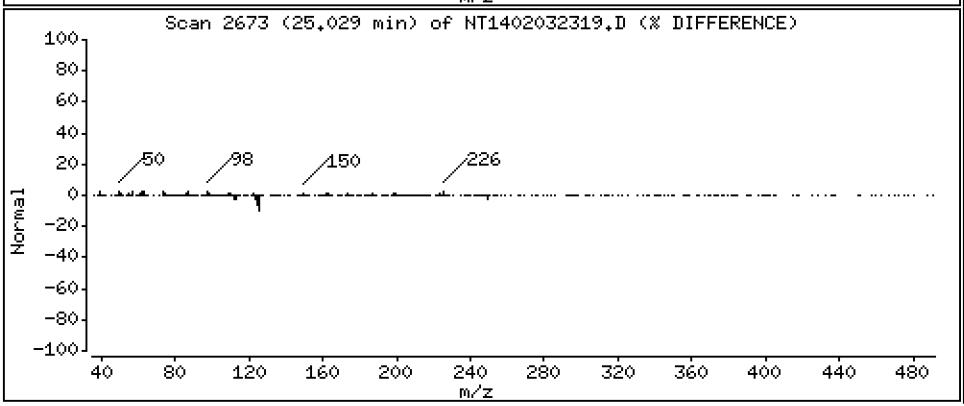












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Date : 03-FEB-2023 23:57

Client ID:

Instrument: nt14.i

Sample Info: SLB0035-CCV1

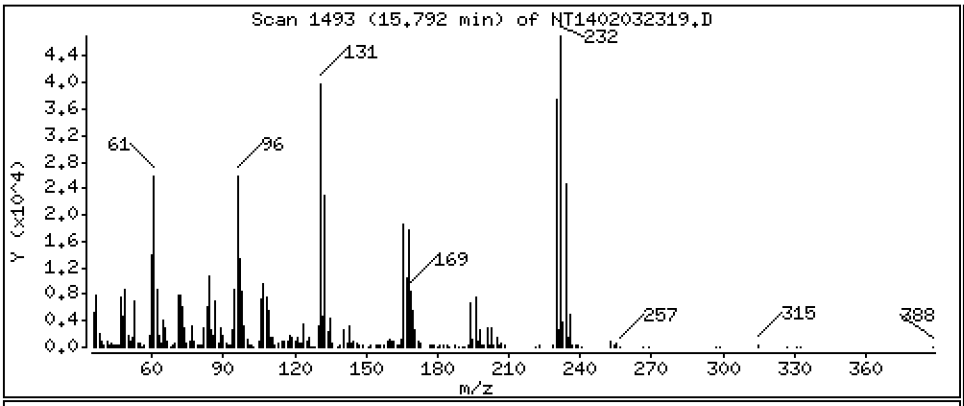
Operator: DSD

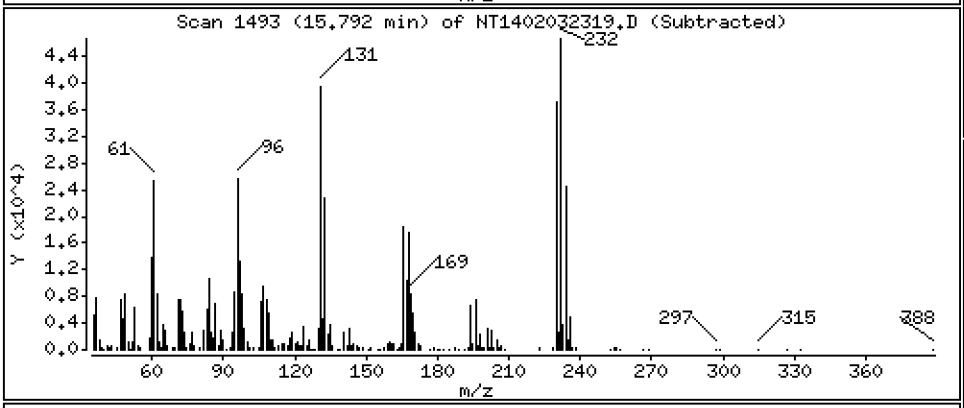
Column phase: ZB-5msi

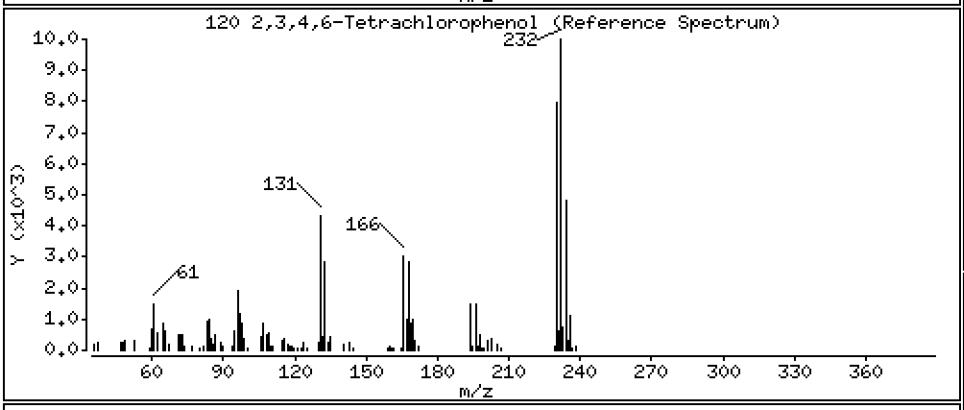
Column diameter: 0.25

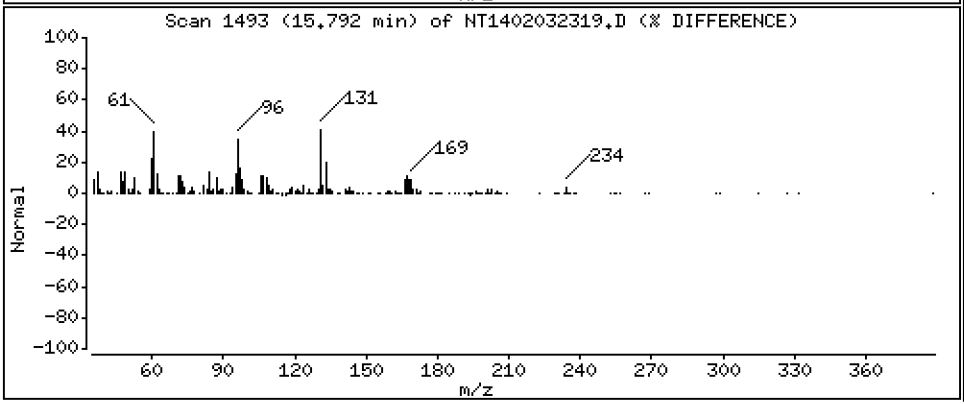
120 2,3,4,6-Tetrachlorophenol

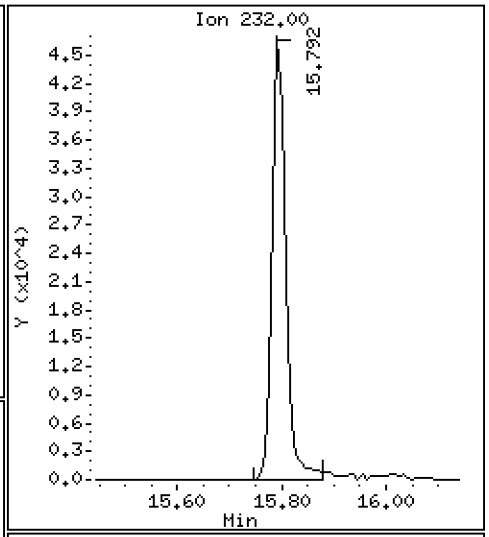
Concentration: 4.072 ug/mL

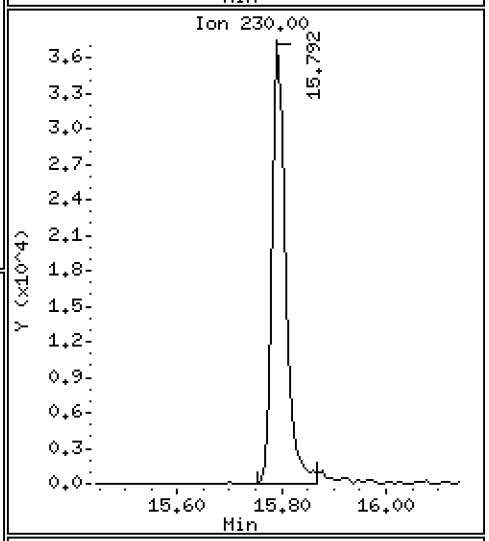


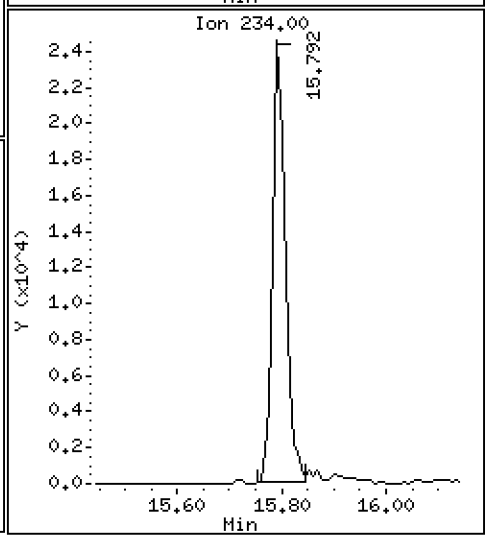












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230203.b\NT1402032319.D
Lab Smp Id: SLB0035-CCV1
Inj Date : 03-FEB-2023 23:57 MS Autotune Date: 17-MAY-2011 01:22
Operator : DSD Inst ID: nt14.i
Smp Info : SLB0035-CCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230203.b\ABN.m
Meth Date : 04-Feb-2023 10:26 van Quant Type: ISTD
Cal Date : 28-JAN-2023 19:41 Cal File: NT1401282308.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1	2-Fluorophenol	112	6.721	6.720	(0.752)	95424	5.96430	5.964
$	2	Phenol-d5	99	8.313	8.312	(0.930)	144899	6.89294	6.893
	3	Phenol	94	8.336	8.336	(0.933)	100958	3.91549	3.915
$	5	2-Chlorophenol-d4	132	8.575	8.583	(0.959)	149734	7.36437	7.364
	4	Bis(2-Chloroethyl)ether	93	8.482	8.490	(0.949)	63154	4.25857	4.259
	6	2-Chlorophenol	128	8.606	8.606	(0.963)	97351	4.54720	4.547
	7	1,3-Dichlorobenzene	146	8.877	8.884	(0.993)	123466	5.16460	5.165
*	8	1,4-Dichlorobenzene-d4	152	8.939	8.946	(1.000)	59568	4.00000	
	9	1,4-Dichlorobenzene	146	8.970	8.977	(1.003)	118909	4.92273	4.923
$	10	1,2-Dichlorobenzene-d4	152	9.303	9.303	(1.041)	74260	5.14615	5.146
	12	1,2-Dichlorobenzene	146	9.327	9.334	(1.043)	113004	4.75791	4.758
	11	Benzyl alcohol	108	9.218	9.218	(1.031)	52689	4.14480	4.145
	14	2,2'-oxybis(1-Chloropropane)	121	9.521	9.521	(1.065)	29880	4.49291	4.493(M)
	13	2-Methylphenol	108	9.451	9.451	(1.057)	81951	4.13932	4.139
	17	Hexachloroethane	117	9.917	9.924	(1.109)	65903	4.52272	4.523
	16	N-Nitroso-di-n-propylamine	70	9.769	9.777	(1.093)	83649	4.84198	4.842
	15	4-Methylphenol	108	9.723	9.722	(1.088)	90048	4.02972	4.030
$	18	Nitrobenzene-d5	82	10.033	10.041	(0.877)	166443	4.73121	4.731
	19	Nitrobenzene	77	10.072	10.072	(0.881)	148770	4.33915	4.339
	20	Isophorone	82	10.522	10.530	(0.920)	166664	4.29806	4.298
	21	2-Nitrophenol	139	10.700	10.708	(0.936)	57972	4.39325	4.393
	22	2,4-Dimethylphenol	107	10.770	10.770	(0.942)	300489	8.67867	8.679
	23	Bis(2-Chloroethoxy)methane	93	10.956	10.964	(0.958)	90346	4.61217	4.612
	24	Benzoic acid	105	10.987	10.972	(0.961)	128699	6.19282	6.193
	25	2,4-Dichlorophenol	162	11.166	11.165	(0.976)	198096	9.02704	9.027
	26	1,2,4-Trichlorobenzene	180	11.351	11.351	(0.993)	143007	5.89872	5.899
*	27	Naphthalene-d8	136	11.436	11.436	(1.000)	245878	4.00000	
	28	Naphthalene	128	11.475	11.482	(1.003)	298283	4.82153	4.822
	29	4-Chloroaniline	127	11.606	11.614	(1.015)	251079	9.35653	9.357
	30	Hexachlorobutadiene	225	11.838	11.845	(1.035)	116582	6.09070	6.091
	31	4-Chloro-3-methylphenol	107	12.581	12.581	(1.100)	241762	8.15443	8.154
	32	2-Methylnaphthalene	142	12.875	12.882	(1.126)	243625	4.83055	4.831
	33	Hexachlorocyclopentadiene	237	13.347	13.347	(0.886)	60717	2.90575	2.906

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.502	13.502	(0.897)	167336	8.79044	8.790
	35	2,4,5-Trichlorophenol	196	13.579	13.579	(0.902)	172237	8.18615	8.186
$	36	2-Fluorobiphenyl	172	13.664	13.664	(0.907)	282134	5.27450	5.274
	37	2-Chloronaphthalene	162	13.873	13.873	(0.921)	233389	5.24434	5.244
	38	2-Nitroaniline	65	14.129	14.128	(0.938)	243595	9.33063	9.331
	39	Dimethylphthalate	163	14.562	14.570	(0.967)	291459	5.06132	5.061
	40	Acenaphthylene	152	14.740	14.748	(0.979)	344289	4.94218	4.942
	41	2,6-Dinitrotoluene	165	14.701	14.701	(0.976)	135987	10.2883	10.29
*	42	Acenaphthene-d10	164	15.057	15.057	(1.000)	150300	4.00000	
	43	3-Nitroaniline	138	14.988	14.988	(0.995)	121301	9.50558	9.506
	44	Acenaphthene	153	15.119	15.127	(1.004)	233052	4.94582	4.946
	45	2,4-Dinitrophenol	184	15.204	15.204	(1.010)	83261	6.32947	6.329
	46	Dibenzofuran	168	15.452	15.451	(1.026)	352995	5.16960	5.170
	47	4-Nitrophenol	109	15.328	15.320	(1.018)	173046	6.52652	6.527
	48	2,4-Dinitrotoluene	165	15.513	15.513	(1.030)	196114	10.6906	10.69
	50	Diethylphthalate	149	16.024	16.031	(1.064)	419857	5.01739	5.017
	49	Fluorene	166	16.163	16.163	(1.073)	425110	4.79995	4.800
	51	4-Chlorophenyl-phenylether	204	16.155	16.163	(1.073)	239462	4.96463	4.965
	52	4-Nitroaniline	138	16.255	16.255	(1.080)	145241	9.58476	9.585
	53	4,6-Dinitro-2-methylphenol	198	16.356	16.355	(0.904)	231136	12.7758	12.78
	54	N-Nitrosodiphenylamine	169	16.409	16.409	(0.907)	242266	4.80947	4.809
$	55	2,4,6-Tribromophenol	330	16.703	16.702	(1.109)	95305	7.56940	7.569
	56	4-Bromophenyl-phenylether	248	17.157	17.157	(0.948)	117935	5.02282	5.023
	57	Hexachlorobenzene	284	17.474	17.474	(0.966)	132310	4.93789	4.938
	58	Pentachlorophenol	266	17.838	17.838	(0.986)	54629	3.71008	3.710
*	59	Phenanthrene-d10	188	18.093	18.093	(1.000)	297685	4.00000	
	60	Phenanthrene	178	18.140	18.147	(1.003)	380299	4.73476	4.735
	61	Anthracene	178	18.232	18.232	(1.008)	384271	5.00685	5.007
	62	Carbazole	167	18.565	18.565	(1.026)	329486	4.67525	4.675
	63	Di-n-butylphthalate	149	19.370	19.377	(1.071)	515123	4.71445	4.714
	64	Fluoranthene	202	20.538	20.538	(0.887)	348300	8.06756	8.068
	65	Pyrene	202	20.964	20.963	(0.905)	319921	7.53285	7.533
$	66	Terphenyl-d14	244	21.250	21.250	(0.918)	279293	7.82270	7.823
	67	Butylbenzylphthalate	149	22.171	22.179	(0.958)	134473	5.93372	5.934
	68	Benzo(a)anthracene	228	23.124	23.123	(0.999)	180596	4.77632	4.776
*	69	Chrysene-d12	240	23.155	23.154	(1.000)	103667	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.077	23.085	(0.997)	224176	12.7892	12.79
	71	Chrysene	228	23.201	23.201	(1.002)	188687	4.99272	4.993
	72	bis(2-Ethylhexyl)phthalate	149	23.201	23.201	(0.959)	186917	4.97856	4.979
*	134	Di-n-octylphthalate-d4	153	24.184	24.184	(1.000)	220056	4.00000	
	73	Di-n-octylphthalate	149	24.192	24.192	(1.000)	262992	4.73330	4.733
	74	Benzo(b)fluoranthene	252	24.982	24.981	(0.971)	164028	4.69311	4.693
	75	Benzo(k)fluoranthene	252	25.028	25.020	(0.973)	163967	4.58230	4.582
	76	Benzo(a)pyrene	252	25.617	25.616	(0.996)	139099	4.65789	4.658
*	77	Perylene-d12	264	25.725	25.725	(1.000)	99462	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.305	28.305	(1.100)	180642	4.78796	4.788
	79	Dibenzo(a,h)anthracene	278	28.313	28.305	(1.101)	157306	4.84157	4.842
	80	Benzo(g,h,i)perylene	276	29.058	29.058	(1.130)	126043	4.51123	4.511
	90	N-Nitrosodimethylamine	74	4.519	4.535	(0.506)	40439	4.18712	4.187
	91	Aniline	93	8.390	8.397	(0.939)	190800	8.71997	8.720
	93	Benzidine	184	20.770	20.770	(0.897)	208566	11.8975	11.90
	103	Pyridine	79	4.543	4.550	(0.508)	64699	2.32340	2.323
	105	1-methylnaphthalene	142	13.099	13.099	(1.145)	234487	4.78766	4.788
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.479	16.479	(1.094)	544194	4.51747	4.517

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.028	24.981	(0.973)	311101	9.14318	9.143
120 2,3,4,6-Tetrachlorophenol	232	15.792	15.791	(1.049)	80493	4.07175	4.072

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1402032319.D
Lab Smp Id: SLB0035-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt14.i\20230203.b\ABN.m
Misc Info:

Calibration Date: 03-FEB-2023
Calibration Time: 14:19
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	64946	32473	129892	59568	-8.28
27 Naphthalene-d8	262858	131429	525716	245878	-6.46
42 Acenaphthene-d10	167543	83772	335086	150300	-10.29
59 Phenanthrene-d10	341039	170520	682078	297685	-12.71
69 Chrysene-d12	222731	111366	445462	103667	-53.46 <-
134 Di-n-octylphthala	333425	166713	666850	220056	-34.00
77 Perylene-d12	152721	76361	305442	99462	-34.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.95	8.45	9.45	8.94	-0.08
27 Naphthalene-d8	11.44	10.94	11.94	11.44	0.00
42 Acenaphthene-d10	15.06	14.56	15.56	15.06	0.00
59 Phenanthrene-d10	18.09	17.59	18.59	18.09	0.00
69 Chrysene-d12	23.15	22.65	23.65	23.16	0.00
134 Di-n-octylphthala	24.18	23.68	24.68	24.18	0.00
77 Perylene-d12	25.73	25.23	26.23	25.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1402032319.D

Lab ID: SLB0035-CCV1
nt14.i, 20230203.b\ABN.m,   03-FEB-2023 23:57

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

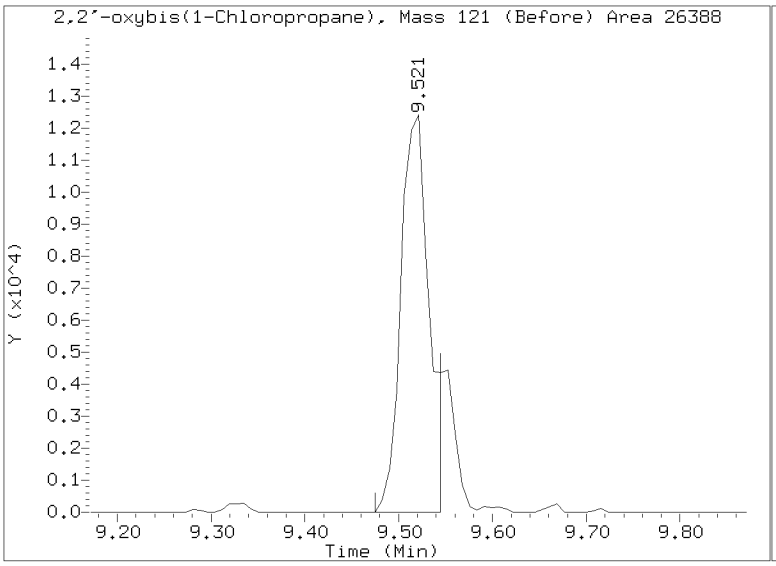
RRT check based on Ccal File: NT1402032303.D

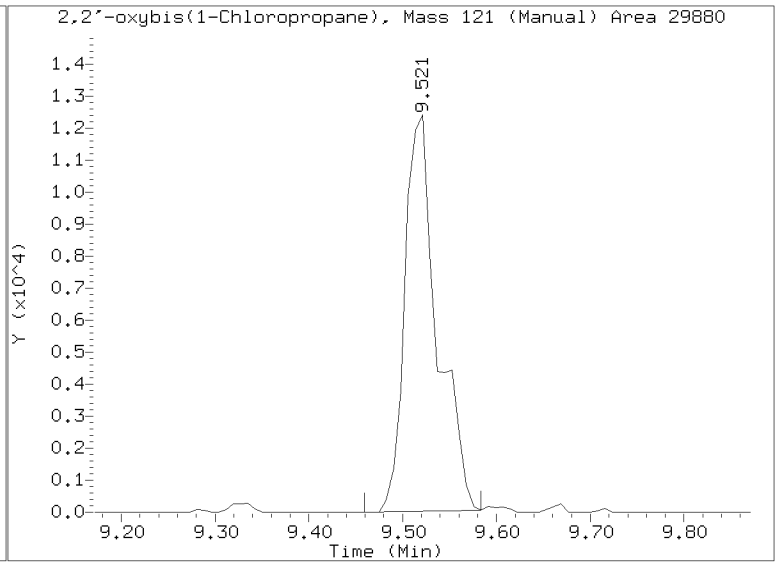
On Column LOD for nt14.i, 20230203.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230203.b/NT1402032319.D
Injection Date: 03-FEB-2023 23:57
Lab ID:SLB0035-CCV1 Client ID:
Report Date: 02/04/2023 10:30





Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0338	Instrument:	NT14
		Calibration:	GA00072

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLA0338-TUN1	NT1401282301.D	NA	01/28/23 15:52
CAL 20	SLA0338-CAL7	NT1401282302.D	NA	01/28/23 16:05
CAL 10	SLA0338-CAL6	NT1401282303.D	NA	01/28/23 16:41
CAL 5	SLA0338-CAL5	NT1401282304.D	NA	01/28/23 17:17
CAL 2.5	SLA0338-CAL4	NT1401282305.D	NA	01/28/23 17:53
CAL 1.0	SLA0338-CAL3	NT1401282306.D	NA	01/28/23 18:29
CAL 0.5	SLA0338-CAL2	NT1401282307.D	NA	01/28/23 19:05
CAL 0.2	SLA0338-CAL1	NT1401282308.D	NA	01/28/23 19:41
SCV 5.0	SLA0338-SCV1	NT1401282311.D	NA	01/28/23 21:28
Initial Cal Blank	SLA0338-ICB1	NT1401282312.D	NA	01/28/23 22:04

Printed: 1/30/2023 5:53:33PM

ANALYSIS SEQUENCE

SLA0338

Instrument ID: NT14
Calibration ID: GA00072
MS EM Level: EV

GCMS Description: Agilent 7890A/5975C XL
GCMS Column ID: ZB-5MS

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLA0338-TUN1	MS Tune	QC		1	K008469		01/28/2023 15:52	NT1401282301.D	VTS	
SLA0338-CAL1	CAL 0.2	QC		2	K011105	K010831	01/28/2023 19:41	NT1401282308.D	JGR	
SLA0338-CAL2	CAL 0.5	QC		3	K011106	K010831	01/28/2023 19:05	NT1401282307.D	JGR	
SLA0338-CAL3	CAL 1.0	QC		4	K011107	K010831	01/28/2023 18:29	NT1401282306.D	JGR	
SLA0338-CAL4	CAL 2.5	QC		5	K011108	K010831	01/28/2023 17:53	NT1401282305.D	JGR	
SLA0338-CAL5	CAL 5	QC		6	K011109	K010831	01/28/2023 17:17	NT1401282304.D	JGR	
SLA0338-CAL6	CAL 10	QC		7	K011110	K010831	01/28/2023 16:41	NT1401282303.D	JGR	
SLA0338-CAL7	CAL 20	QC		8	K011111	K010831	01/28/2023 16:05	NT1401282302.D	JGR	
SLA0338-SCV1	SCV 5.0	QC		9	K010066	K010831	01/28/2023 21:28	NT1401282311.D	JGR	
SLA0338-ICB1	Initial Cal Blank	QC		10	K005156	K010831	01/28/2023 22:04	NT1401282312.D	JGR	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230128.b

	Time	Filename	LabID	ClientId	DF																			
1	1552	NT1401282301.D	SLA0338-TUN1		1	|NO ISTDS FOUND||																		
2	1605	NT1401282302.D	SLA0338-CAL7		1	| 8.99	46969	||11.48	176821	||15.11	111844	||18.15	215084	||23.20	144210	||25.79	122857	||24.23	349093	|				
3	1641	NT1401282303.D	SLA0338-CAL6		1	| 8.99	50264	||11.48	178786	||15.10	114572	||18.14	215512	||23.19	166017	||25.78	143815	||24.22	324384	|				
4	1717	NT1401282304.D	SLA0338-CAL5		1	| 8.99	53060	||11.48	202004	||15.10	124451	||18.14	239860	||23.19	191274	||25.77	162367	||24.22	341876	|				
5	1753	NT1401282305.D	SLA0338-CAL4		1	| 8.99	70550	||11.48	260926	||15.10	159226	||18.14	316277	||23.19	242021	||25.77	213390	||24.22	431998	|				
6	1829	NT1401282306.D	SLA0338-CAL3		1	| 8.99	40977	||11.48	170624	||15.10	102649	||18.13	196598	||23.19	148746	||25.77	130323	||24.22	238153	|				
7	1905	NT1401282307.D	SLA0338-CAL2		1	| 8.98	63682	||11.48	238244	||15.10	150907	||18.13	288201	||23.19	221537	||25.77	198060	||24.22	364511	|				
8	1941	NT1401282308.D	SLA0338-CAL1		1	| 8.98	69773	||11.48	261358	||15.10	160002	||18.13	313355	||23.19	246129	||25.77	216836	||24.22	398721	|				
9	2017	NT1401282309.D	SEQ-SIM0.1		1	| 8.98	71493	||11.48	276563	||15.10	161904	||18.13	313145	||23.19	248400	||25.77	224621	||24.22	396239	|				
10	2053	NT1401282310.D			1	| 8.98	71357	||11.48	275204	||15.10	165566	||18.13	318499	||23.19	258390	||25.77	222503	||24.22	394078	|				
11	2128	NT1401282311.D	SLA0338-SCV1		1	| 8.98	64868	||11.48	237703	||15.10	145815	||18.13	284750	||23.19	217792	||25.77	197244	||24.22	398967	|				
12	2204	NT1401282312.D	SLA0338-ICB1		1	| 8.98	58224	||11.47	237075	||15.10	139134	||18.13	264256	||23.19	203513	||25.77	177406	||24.22	309702	|				

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230128.b

ARI Job No.: SLA0 Method: DFTPP8270E.m Instrument: nt14.i Date: 28-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1552	NT1401282301.D	SLA0338-TUN1		1	NO MANUAL INTEGRATION
1605	NT1401282302.D	SLA0338-CAL7		1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
1641	NT1401282303.D	SLA0338-CAL6		1	2,2'-oxybis(1-Chloropropane),
1717	NT1401282304.D	SLA0338-CAL5		1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
1753	NT1401282305.D	SLA0338-CAL4		1	2,2'-oxybis(1-Chloropropane),
1829	NT1401282306.D	SLA0338-CAL3		1	2,2'-oxybis(1-Chloropropane),
1905	NT1401282307.D	SLA0338-CAL2		1	2,2'-oxybis(1-Chloropropane), Indeno(1,2,3-cd)pyrene,
1941	NT1401282308.D	SLA0338-CAL1		1	1,4-Dichlorobenzene, 2,2'-oxybis(1-Chloropropane), Benzoic acid, 3-Nitroaniline, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylen
2017	NT1401282309.D	SEQ-SIM0.1		1	NO MANUAL INTEGRATION
2053	NT1401282310.D			1	NO MANUAL INTEGRATION
2128	NT1401282311.D	SLA0338-SCV1		1	NO MANUAL INTEGRATION
2204	NT1401282312.D	SLA0338-ICB1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 30-Jan-2023 17:48

NT1401282301.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282302.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282303.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282304.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282305.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282306.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282307.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282308.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282309.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282310.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282311.D	Data Locked	deenayd, 30-Jan-2023 17:48
NT1401282312.D	Data Locked	deenayd, 30-Jan-2023 17:48

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0035	Instrument:	NT14
		Calibration:	GA00072

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLB0035-TUN1	NT1402032301.D	NA	02/03/23 13:16
ABN 5	SLB0035-ICV1	NT1402032303.D	NA	02/03/23 14:19
Blank	BLA0064-BLK1	NT1402032306.D	Solid	02/03/23 16:08
LCS	BLA0064-BS1	NT1402032307.D	Solid	02/03/23 16:44
LCS Dup	BLA0064-BSD1	NT1402032308.D	Solid	02/03/23 17:20
LDW23-SC1123B	22L0459-01	NT1402032309.D	Solid	02/03/23 17:56
LDW23-SC1123B	BLA0064-MS1	NT1402032310.D	Solid	02/03/23 18:32
LDW23-SC1123B	BLA0064-MSD1	NT1402032311.D	Solid	02/03/23 19:09
LDW23-SC1053C	22L0459-02	NT1402032312.D	Solid	02/03/23 19:45
LDW23-SC1039C	22L0459-03	NT1402032313.D	Solid	02/03/23 20:21
LDW23-SC1007B	22L0459-04	NT1402032314.D	Solid	02/03/23 20:57
LDW23-SC1002C	22L0459-05	NT1402032315.D	Solid	02/03/23 21:33
LDW23-SC1070B	22L0459-06	NT1402032316.D	Solid	02/03/23 22:09
LDW23-SC1091B	22L0459-07	NT1402032317.D	Solid	02/03/23 22:45
ABN 5	SLB0035-CCV1	NT1402032319.D	NA	02/03/23 23:57

ANALYSIS SEQUENCE

SLB0035

Instrument ID: NT14
Calibration ID: GA00072
MS EM Level: 2153 EV

GCMS Description: Agilent 7890A/5975C XL
GCMS Column ID: L000750

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLB0035-TUN1	MS Tune	QC		1	K004775		02/03/2023 13:16	NT1402032301.D	VTS	
SLB0035-ICV1	ABN 5	QC		2	K011109	K010831	02/03/2023 14:19	NT1402032303.D	DSD	
BLA0064-BLK1	Blank	QC		3		K010831	02/03/2023 16:08	NT1402032306.D	DSD	
BLA0064-BS1	LCS	QC		4		K010831	02/03/2023 16:44	NT1402032307.D	DSD	
BLA0064-BSD1	LCS Dup	QC		5		K010831	02/03/2023 17:20	NT1402032308.D	DSD	
22L0459-01	LDW23-SC1123B	(20ug/kg solid or 0.2ug/L l	A 01	6		K010831	02/03/2023 17:56	NT1402032309.D	DSD	
BLA0064-MS1	Matrix Spike	QC		7		K010831	02/03/2023 18:32	NT1402032310.D	DSD	
BLA0064-MSD1	Matrix Spike Dup	QC		8		K010831	02/03/2023 19:09	NT1402032311.D	DSD	
22L0459-02	LDW23-SC1053C	(20ug/kg solid or 0.2ug/L l	A 01	9		K010831	02/03/2023 19:45	NT1402032312.D	DSD	
22L0459-03	LDW23-SC1039C	(20ug/kg solid or 0.2ug/L l	A 01	10		K010831	02/03/2023 20:21	NT1402032313.D	DSD	
22L0459-04	LDW23-SC1007B	(20ug/kg solid or 0.2ug/L l	A 01	11		K010831	02/03/2023 20:57	NT1402032314.D	DSD	
22L0459-05	LDW23-SC1002C	(20ug/kg solid or 0.2ug/L l	A 01	12		K010831	02/03/2023 21:33	NT1402032315.D	DSD	
22L0459-06	LDW23-SC1070B	(20ug/kg solid or 0.2ug/L l	A 01	13		K010831	02/03/2023 22:09	NT1402032316.D	DSD	
22L0459-07	LDW23-SC1091B	(20ug/kg solid or 0.2ug/L l	A 01	14		K010831	02/03/2023 22:45	NT1402032317.D	DSD	
SLB0035-CCV1	ABN 5	QC		15	K011109	K010831	02/03/2023 23:57	NT1402032319.D	DSD	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230203.b

	Time	Filename	LabID	ClientId	DF																	
1	1316	NT1402032301.D	BLA0064-TUN1		1	|NO ISTDS FOUND||																
2	1343	NT1402032302.D	SIM ICV		1	8.95	64918	11.44	257023	15.07	162218	18.09	308415	23.16	143114	25.73	121700	24.18	228116			
3	1419	NT1402032303.D	SLB0035-ICV1		1	8.95	64946	11.44	262858	15.06	167543	18.09	341039	23.15	222731	25.73	152721	24.18	333425			
4	1455	NT1402032304.D	SIM LCV		1	8.95	62388	11.44	255256	15.06	163228	18.09	329306	23.15	247230	25.73	163101	24.18	332983			
5	1531	NT1402032305.D	SLB0035-LCV1		1	8.94	61183	11.44	257830	15.06	167916	18.09	345392	23.15	261952	25.72	186448	24.18	385825			
6	1608	NT1402032306.D	BLA0064-BLK1		1	8.95	65329	11.44	254364	15.06	163426	18.09	351759	23.15	239033	25.73	167267	24.18	391768			
7	1644	NT1402032307.D	BLA0064-BS1		1	8.94	65252	11.44	262493	15.06	171677	18.09	348418	23.15	261473	25.73	205729	24.18	444743			
8	1720	NT1402032308.D	BLA0064-BSD1		1	8.94	60446	11.44	232779	15.06	148592	18.09	291635	23.15	218044	25.73	166412	24.18	378020			
9	1756	NT1402032309.D	22L0459-01		1	8.94	59105	11.44	243874	15.06	166531	18.10	342509	23.16	142966	25.74	133791	24.18	217135			
10	1832	NT1402032310.D	BLA0064-MS1		1	8.94	57851	11.44	238919	15.06	148197	18.10	317977	23.16	130415	25.75	125826	24.19	227093			
11	1909	NT1402032311.D	BLA0064-MSD1		1	8.94	55061	11.44	223857	15.06	148336	18.10	300515	23.16	124060	25.75	128985	24.19	215414			
12	1945	NT1402032312.D	22L0459-02		1	8.94	53986	11.43	224993	15.06	136330	18.10	276432	23.16	111917	25.74	118107	24.18	195398			
13	2021	NT1402032313.D	22L0459-03		1	8.94	58140	11.43	241442	15.06	151857	18.10	310836	23.17	130041	25.75	142987	24.19	219906			
14	2057	NT1402032314.D	22L0459-04		1	8.94	58618	11.44	242204	15.06	158986	18.10	312112	23.16	124364	25.74	137392	24.18	205867			
15	2133	NT1402032315.D	22L0459-05		1	8.94	52740	11.44	219020	15.06	145876	18.10	293146	23.17	130310	25.75	127634	24.19	205005			
16	2209	NT1402032316.D	22L0459-06		1	8.94	55979	11.44	227537	15.06	139608	18.10	293690	23.17	129947	25.76	154817	24.19	214318			
17	2245	NT1402032317.D	22L0459-07		1	8.94	57886	11.44	239069	15.06	156006	18.10	302566	23.16	110676	25.75	128365	24.18	193367			
18	2321	NT1402032318.D	CCV1		1	8.94	64047	11.44	261308	15.06	158490	18.09	250000	23.15	106003	25.73	107827	24.18	214421			
19	2357	NT1402032319.D	SLB0035-CCV1		1	8.94	59568	11.44	245878	15.06	150300	18.09	297685	23.16	103667	25.73	99462	24.18	220056			

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230203.b

Instrument: nt14.i Date: 03-FEB-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
1316	NT1402032301.D	BLA0064-TUN1	1	NO MANUAL INTEGRATION
1343	NT1402032302.D	SIM ICV	1	NO MANUAL INTEGRATION
1419	NT1402032303.D	SLB0035-ICV1	1	2,2'-oxybis(1-Chloropropane),
1455	NT1402032304.D	SIM LCV	1	NO MANUAL INTEGRATION
1531	NT1402032305.D	SLB0035-LCV1	1	NO MANUAL INTEGRATION
1608	NT1402032306.D	BLA0064-BLK1	1	NO MANUAL INTEGRATION
1644	NT1402032307.D	BLA0064-BS1	1	Pentachlorophenol,
1720	NT1402032308.D	BLA0064-BSD1	1	Benzoic acid,
1756	NT1402032309.D	22L0459-01	1	Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,
1832	NT1402032310.D	BLA0064-MS1	1	4-Chloroaniline, 2,4-Dinitrophenol,
1909	NT1402032311.D	BLA0064-MSD1	1	4-Chloroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 3,3'-Dichlorobenzidine,
1945	NT1402032312.D	22L0459-02	1	Phenol, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,
2021	NT1402032313.D	22L0459-03	1	2-Methylphenol, Benzo(k)fluoranthene,
2057	NT1402032314.D	22L0459-04	1	Butylbenzylphthalate, Benzo(k)fluoranthene, Benzo(g,h,i)perylene,
2133	NT1402032315.D	22L0459-05	1	NO MANUAL INTEGRATION
2209	NT1402032316.D	22L0459-06	1	Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)pery Total Benzofluoranthenes,
2245	NT1402032317.D	22L0459-07	1	Benzoic acid, Butylbenzylphthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,

Instrument: nt14.i Date: 03-FEB-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
2321	NT1402032318.D	CCV1	1	NO MANUAL INTEGRATION
2357	NT1402032319.D	SLB0035-CCV1	1	2,2'-oxybis(1-Chloropropane),

Security Status Report

Date: 04-Feb-2023 11:16

NT1402032301.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032302.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032303.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032304.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032305.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032306.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032307.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032308.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032309.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032310.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032311.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032312.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032313.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032314.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032315.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032316.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032317.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032318.D	Data Locked	van, 04-Feb-2023 11:15
NT1402032319.D	Data Locked	van, 04-Feb-2023 11:15

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0338
Instrument: NT14
Calibration: GA00072
Calibration Date: 01/28/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0338-SCV1 (Water)			Lab File ID: NT1401282311.D				Analyzed: 01/28/23 21:28	
2-Fluorophenol	7.5000	109	80 - 120	6.736	6.744	-0.0080	N/A	
Phenol-d5	7.5000	103	80 - 120	8.328	8.335714	-0.0077	N/A	
2-Chlorophenol-d4	7.5000	100	80 - 120	8.606	8.616	-0.0100	N/A	
1,2-Dichlorobenzene-d4	5.0000	95.4	80 - 120	9.342	9.344286	-0.0023	N/A	
Nitrobenzene-d5	5.0000	106	80 - 120	10.072	10.07971	-0.0077	N/A	
2-Fluorobiphenyl	5.0000	100	80 - 120	13.703	13.70614	-0.0031	N/A	
2,4,6-Tribromophenol	7.5000	105	80 - 120	16.734	16.74014	-0.0061	N/A	
p-Terphenyl-d14	5.0000	100	80 - 120	21.281	21.29	-0.0090	N/A	
SLA0338-ICB1 (Water)			Lab File ID: NT1401282312.D				Analyzed: 01/28/23 22:04	
2-Fluorophenol	7.5000	109	30 - 160	6.736	6.744	-0.0080	N/A	
Phenol-d5	7.5000	106	30 - 160	8.328	8.335714	-0.0077	N/A	
2-Chlorophenol-d4	7.5000	103	30 - 160	8.606	8.616	-0.0100	N/A	
1,2-Dichlorobenzene-d4	5.0000	103	30 - 160	9.342	9.344286	-0.0023	N/A	
Nitrobenzene-d5	5.0000	99.2	30 - 160	10.072	10.07971	-0.0077	N/A	
2-Fluorobiphenyl	5.0000	103	30 - 160	13.703	13.70614	-0.0031	N/A	
2,4,6-Tribromophenol	7.5000	87.4	30 - 160	16.733	16.74014	-0.0071	N/A	
p-Terphenyl-d14	5.0000	102	30 - 160	21.281	21.29	-0.0090	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLB0035
Instrument: NT14
Calibration: GA00072
Calibration Date: 01/28/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLB0035-ICV1 (Solid)			Lab File ID: NT1402032303.D			Analyzed: 02/03/23 14:19		
2-Fluorophenol	7.5000	81.8	80 - 120	6.72	6.744	-0.0240	N/A	
Phenol-d5	7.5000	93.7	80 - 120	8.312	8.335714	-0.0237	N/A	
2-Chlorophenol-d4	7.5000	98.6	80 - 120	8.583	8.616	-0.0330	N/A	
1,2-Dichlorobenzene-d4	5.0000	98.4	80 - 120	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	5.0000	91.8	80 - 120	10.041	10.07971	-0.0387	N/A	
2-Fluorobiphenyl	5.0000	101	80 - 120	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	7.5000	97.0	80 - 120	16.702	16.74014	-0.0381	N/A	
p-Terphenyl-d14	5.0000	112	80 - 120	21.25	21.29	-0.0400	N/A	
BLA0064-BLK1 (Solid)			Lab File ID: NT1402032306.D			Analyzed: 02/03/23 16:08		
2-Fluorophenol	750.00	55.8	27 - 120	6.72	6.744	-0.0240	N/A	
Phenol-d5	750.00	63.0	29 - 120	8.312	8.335714	-0.0237	N/A	
2-Chlorophenol-d4	750.00	70.2	31 - 120	8.583	8.616	-0.0330	N/A	
1,2-Dichlorobenzene-d4	500.00	79.3	32 - 120	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	500.00	76.5	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	500.00	85.1	35 - 120	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	750.00	59.9	24 - 134	16.702	16.74014	-0.0381	N/A	
p-Terphenyl-d14	500.00	98.5	37 - 120	21.25	21.29	-0.0400	N/A	
BLA0064-BS1 (Solid)			Lab File ID: NT1402032307.D			Analyzed: 02/03/23 16:44		
2-Fluorophenol	750.00	34.0	27 - 120	6.72	6.744	-0.0240	N/A	
Phenol-d5	750.00	37.9	29 - 120	8.312	8.335714	-0.0237	N/A	
2-Chlorophenol-d4	750.00	41.4	31 - 120	8.583	8.616	-0.0330	N/A	
1,2-Dichlorobenzene-d4	500.00	41.6	32 - 120	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	500.00	43.1	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	500.00	44.9	35 - 120	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	750.00	40.2	24 - 134	16.695	16.74014	-0.0451	N/A	
p-Terphenyl-d14	500.00	49.7	37 - 120	21.25	21.29	-0.0400	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLB0035
Instrument: NT14
Calibration: GA00072
Calibration Date: 01/28/2023

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLA0064-BSD1 (Solid)			Lab File ID: NT1402032308.D			Analyzed: 02/03/23 17:20		
2-Fluorophenol	750.00	54.5	27 - 120	6.72	6.744	-0.0240	N/A	
Phenol-d5	750.00	62.4	29 - 120	8.312	8.335714	-0.0237	N/A	
2-Chlorophenol-d4	750.00	70.6	31 - 120	8.575	8.616	-0.0410	N/A	
1,2-Dichlorobenzene-d4	500.00	71.2	32 - 120	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	500.00	73.3	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	500.00	78.2	35 - 120	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	750.00	76.2	24 - 134	16.695	16.74014	-0.0451	N/A	
p-Terphenyl-d14	500.00	92.9	37 - 120	21.25	21.29	-0.0400	N/A	
22L0459-01 (Solid)			Lab File ID: NT1402032309.D			Analyzed: 02/03/23 17:56		
2-Fluorophenol	749.80	56.9	27 - 120	6.72	6.744	-0.0240	N/A	
Phenol-d5	749.80	57.1	29 - 120	8.312	8.335714	-0.0237	N/A	
2-Chlorophenol-d4	749.80	67.8	31 - 120	8.575	8.616	-0.0410	N/A	
1,2-Dichlorobenzene-d4	499.87	63.4	32 - 120	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	499.87	64.4	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	499.87	70.0	35 - 120	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	749.80	80.9	24 - 134	16.702	16.74014	-0.0381	N/A	
p-Terphenyl-d14	499.87	99.5	37 - 120	21.258	21.29	-0.0320	N/A	
BLA0064-MS1 (Solid)			Lab File ID: NT1402032310.D			Analyzed: 02/03/23 18:32		
2-Fluorophenol	749.80	51.5	27 - 120	6.72	6.744	-0.0240	N/A	
Phenol-d5	749.80	61.9	29 - 120	8.312	8.335714	-0.0237	N/A	
2-Chlorophenol-d4	749.80	67.5	31 - 120	8.583	8.616	-0.0330	N/A	
1,2-Dichlorobenzene-d4	499.87	61.4	32 - 120	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	499.87	67.2	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	499.87	78.5	35 - 120	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	749.80	84.6	24 - 134	16.702	16.74014	-0.0381	N/A	
p-Terphenyl-d14	499.87	98.3	37 - 120	21.265	21.29	-0.0250	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLB0035
Instrument: NT14
Calibration: GA00072
Calibration Date: 01/28/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLA0064-MSD1 (Solid)			Lab File ID: NT1402032311.D			Analyzed: 02/03/23 19:09		
2-Fluorophenol	749.80	58.4	27 - 120	6.72	6.744	-0.0240	N/A	
Phenol-d5	749.80	67.7	29 - 120	8.312	8.335714	-0.0237	N/A	
2-Chlorophenol-d4	749.80	72.7	31 - 120	8.575	8.616	-0.0410	N/A	
1,2-Dichlorobenzene-d4	499.87	67.5	32 - 120	9.296	9.344286	-0.0483	N/A	
Nitrobenzene-d5	499.87	74.4	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	499.87	77.5	35 - 120	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	749.80	82.9	24 - 134	16.702	16.74014	-0.0381	N/A	
p-Terphenyl-d14	499.87	91.8	37 - 120	21.265	21.29	-0.0250	N/A	
22L0459-02 (Solid)			Lab File ID: NT1402032312.D			Analyzed: 02/03/23 19:45		
2-Fluorophenol	748.83	61.5	27 - 120	6.721	6.744	-0.0230	N/A	
Phenol-d5	748.83	70.7	29 - 120	8.313	8.335714	-0.0227	N/A	
2-Chlorophenol-d4	748.83	78.2	31 - 120	8.575	8.616	-0.0410	N/A	
1,2-Dichlorobenzene-d4	499.22	73.8	32 - 120	9.296	9.344286	-0.0483	N/A	
Nitrobenzene-d5	499.22	77.4	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	499.22	84.8	35 - 120	13.656	13.70614	-0.0501	N/A	
2,4,6-Tribromophenol	748.83	91.7	24 - 134	16.702	16.74014	-0.0381	N/A	
p-Terphenyl-d14	499.22	105	37 - 120	21.258	21.29	-0.0320	N/A	
22L0459-03 (Solid)			Lab File ID: NT1402032313.D			Analyzed: 02/03/23 20:21		
2-Fluorophenol	749.39	51.5	27 - 120	6.72	6.744	-0.0240	N/A	
Phenol-d5	749.39	59.1	29 - 120	8.312	8.335714	-0.0237	N/A	
2-Chlorophenol-d4	749.39	66.7	31 - 120	8.575	8.616	-0.0410	N/A	
1,2-Dichlorobenzene-d4	499.59	61.9	32 - 120	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	499.59	64.8	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	499.59	74.7	35 - 120	13.656	13.70614	-0.0501	N/A	
2,4,6-Tribromophenol	749.39	82.5	24 - 134	16.702	16.74014	-0.0381	N/A	
p-Terphenyl-d14	499.59	89.3	37 - 120	21.265	21.29	-0.0250	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLB0035
Instrument: NT14
Calibration: GA00072
Calibration Date: 01/28/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0459-04 (Solid)			Lab File ID: NT1402032314.D			Analyzed: 02/03/23 20:57		
2-Fluorophenol	747.73	53.9	27 - 120	6.72	6.744	-0.0240	N/A	
Phenol-d5	747.73	58.3	29 - 120	8.312	8.335714	-0.0237	N/A	
2-Chlorophenol-d4	747.73	65.2	31 - 120	8.575	8.616	-0.0410	N/A	
1,2-Dichlorobenzene-d4	498.49	64.4	32 - 120	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	498.49	66.4	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	498.49	70.6	35 - 120	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	747.73	75.7	24 - 134	16.702	16.74014	-0.0381	N/A	
p-Terphenyl-d14	498.49	89.1	37 - 120	21.257	21.29	-0.0330	N/A	
22L0459-05 (Solid)			Lab File ID: NT1402032315.D			Analyzed: 02/03/23 21:33		
2-Fluorophenol	748.71	57.7	27 - 120	6.721	6.744	-0.0230	N/A	
Phenol-d5	748.71	64.5	29 - 120	8.312	8.335714	-0.0237	N/A	
2-Chlorophenol-d4	748.71	72.9	31 - 120	8.583	8.616	-0.0330	N/A	
1,2-Dichlorobenzene-d4	499.14	67.9	32 - 120	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	499.14	72.0	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	499.14	79.3	35 - 120	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	748.71	90.6	24 - 134	16.71	16.74014	-0.0301	N/A	
p-Terphenyl-d14	499.14	83.9	37 - 120	21.258	21.29	-0.0320	N/A	
22L0459-06 (Solid)			Lab File ID: NT1402032316.D			Analyzed: 02/03/23 22:09		
2-Fluorophenol	749.55	58.9	27 - 120	6.728	6.744	-0.0160	N/A	
Phenol-d5	749.55	68.1	29 - 120	8.32	8.335714	-0.0157	N/A	
2-Chlorophenol-d4	749.55	76.0	31 - 120	8.583	8.616	-0.0330	N/A	
1,2-Dichlorobenzene-d4	499.70	72.7	32 - 120	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	499.70	75.9	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	499.70	86.6	35 - 120	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	749.55	94.4	24 - 134	16.703	16.74014	-0.0371	N/A	
p-Terphenyl-d14	499.70	94.9	37 - 120	21.265	21.29	-0.0250	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0035	Instrument:	NT14
Calibration:	GA00072	Calibration Date:	01/28/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0459-07 (Solid)			Lab File ID: NT1402032317.D			Analyzed: 02/03/23 22:45		
2-Fluorophenol	749.02	51.7	27 - 120	6.72	6.744	-0.0240	N/A	
Phenol-d5	749.02	62.4	29 - 120	8.32	8.335714	-0.0157	N/A	
2-Chlorophenol-d4	749.02	69.5	31 - 120	8.583	8.616	-0.0330	N/A	
1,2-Dichlorobenzene-d4	499.35	66.4	32 - 120	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	499.35	70.6	30 - 120	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	499.35	74.1	35 - 120	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	749.02	83.6	24 - 134	16.702	16.74014	-0.0381	N/A	
p-Terphenyl-d14	499.35	97.1	37 - 120	21.258	21.29	-0.0320	N/A	
SLB0035-CCV1 (Solid)			Lab File ID: NT1402032319.D			Analyzed: 02/03/23 23:57		
2-Fluorophenol	7.5000	79.5	50 - 150	6.721	6.744	-0.0230	N/A	
Phenol-d5	7.5000	91.9	50 - 150	8.313	8.335714	-0.0227	N/A	
2-Chlorophenol-d4	7.5000	98.2	50 - 150	8.575	8.616	-0.0410	N/A	
1,2-Dichlorobenzene-d4	5.0000	103	50 - 150	9.303	9.344286	-0.0413	N/A	
Nitrobenzene-d5	5.0000	94.6	50 - 150	10.033	10.07971	-0.0467	N/A	
2-Fluorobiphenyl	5.0000	105	50 - 150	13.664	13.70614	-0.0421	N/A	
2,4,6-Tribromophenol	7.5000	101	50 - 150	16.703	16.74014	-0.0371	N/A	
p-Terphenyl-d14	5.0000	156	50 - 150	21.25	21.29	-0.0400	N/A	*

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0338	Instrument:	NT14
		Calibration:	GA00072

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SLA0338-SCV1)		(Water)		Lab File ID: NT1401282311.D				Analyzed: 01/28/23 21:28	
1,4-Dichlorobenzene-d4	64868	8.977	53060	8.985	122	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	237703	11.475	202004	11.475	118	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	145815	15.096	124451	15.104	117	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	284750	18.132	239860	18.14	119	50 - 200	-0.008	+/-0.50	
Chrysene-d12	217792	23.186	191274	23.193	114	50 - 200	-0.007	+/-0.50	
Di-n-Octylphthalate-d4	398967	24.215	341876	24.223	117	50 - 200	-0.008	+/-0.50	
Perylene-d12	197244	25.772	162367	25.772	121	50 - 200	0.000	+/-0.50	
Initial Cal Blank (SLA0338-ICB1)		(Water)		Lab File ID: NT1401282312.D				Analyzed: 01/28/23 22:04	
1,4-Dichlorobenzene-d4	58224	8.977	53060	8.985	110	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	237075	11.467	202004	11.475	117	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	139134	15.096	124451	15.104	112	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	264256	18.132	239860	18.14	110	50 - 200	-0.008	+/-0.50	
Chrysene-d12	203513	23.186	191274	23.193	106	50 - 200	-0.007	+/-0.50	
Di-n-Octylphthalate-d4	309702	24.215	341876	24.223	91	50 - 200	-0.008	+/-0.50	
Perylene-d12	177406	25.772	162367	25.772	109	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0035	Instrument:	NT14
		Calibration:	GA00072

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLB0035-ICV1)		(Solid)	Lab File ID: NT1402032303.D				Analyzed: 02/03/23 14:19		
1,4-Dichlorobenzene-d4	64946	8.946	64946	8.946	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	262858	11.436	262858	11.436	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	167543	15.057	167543	15.057	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	341039	18.093	341039	18.093	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	222731	23.154	222731	23.154	100	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	333425	24.184	333425	24.184	100	50 - 200	0.000	+/-0.50	
Perylene-d12	152721	25.725	152721	25.725	100	50 - 200	0.000	+/-0.50	
Blank (BLA0064-BLK1)		(Solid)	Lab File ID: NT1402032306.D				Analyzed: 02/03/23 16:08		
1,4-Dichlorobenzene-d4	65329	8.946	64946	8.946	101	50 - 200	0.000	+/-0.50	
Naphthalene-d8	254364	11.436	262858	11.436	97	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	163426	15.057	167543	15.057	98	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	351759	18.093	341039	18.093	103	50 - 200	0.000	+/-0.50	
Chrysene-d12	239033	23.154	222731	23.154	107	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	391768	24.184	333425	24.184	117	50 - 200	0.000	+/-0.50	
Perylene-d12	167267	25.725	152721	25.725	110	50 - 200	0.000	+/-0.50	
LCS (BLA0064-BS1)		(Solid)	Lab File ID: NT1402032307.D				Analyzed: 02/03/23 16:44		
1,4-Dichlorobenzene-d4	65252	8.938	64946	8.946	100	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	262493	11.436	262858	11.436	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	171677	15.057	167543	15.057	102	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	348418	18.093	341039	18.093	102	50 - 200	0.000	+/-0.50	
Chrysene-d12	261473	23.147	222731	23.154	117	50 - 200	-0.007	+/-0.50	
Di-n-Octylphthalate-d4	444743	24.184	333425	24.184	133	50 - 200	0.000	+/-0.50	
Perylene-d12	205729	25.725	152721	25.725	135	50 - 200	0.000	+/-0.50	
LCS Dup (BLA0064-BSD1)		(Solid)	Lab File ID: NT1402032308.D				Analyzed: 02/03/23 17:20		
1,4-Dichlorobenzene-d4	60446	8.938	64946	8.946	93	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	232779	11.436	262858	11.436	89	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	148592	15.057	167543	15.057	89	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	291635	18.093	341039	18.093	86	50 - 200	0.000	+/-0.50	
Chrysene-d12	218044	23.147	222731	23.154	98	50 - 200	-0.007	+/-0.50	
Di-n-Octylphthalate-d4	378020	24.176	333425	24.184	113	50 - 200	-0.008	+/-0.50	
Perylene-d12	166412	25.725	152721	25.725	109	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0035	Instrument:	NT14
		Calibration:	GA00072

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SC1123B (22L0459-01)		(Solid)		Lab File ID: NT1402032309.D				Analyzed: 02/03/23 17:56	
1,4-Dichlorobenzene-d4	59105	8.939	64946	8.946	91	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	243874	11.436	262858	11.436	93	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	166531	15.057	167543	15.057	99	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	342509	18.101	341039	18.093	100	50 - 200	0.008	+/-0.50	
Chrysene-d12	142966	23.162	222731	23.154	64	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	217135	24.184	333425	24.184	65	50 - 200	0.000	+/-0.50	
Perylene-d12	133791	25.74	152721	25.725	88	50 - 200	0.015	+/-0.50	
Matrix Spike (BLA0064-MS1)		(Solid)		Lab File ID: NT1402032310.D				Analyzed: 02/03/23 18:32	
1,4-Dichlorobenzene-d4	57851	8.938	64946	8.946	89	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	238919	11.436	262858	11.436	91	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	148197	15.057	167543	15.057	88	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	317977	18.101	341039	18.093	93	50 - 200	0.008	+/-0.50	
Chrysene-d12	130415	23.162	222731	23.154	59	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	227093	24.192	333425	24.184	68	50 - 200	0.008	+/-0.50	
Perylene-d12	125826	25.748	152721	25.725	82	50 - 200	0.023	+/-0.50	
Matrix Spike Dup (BLA0064-MSD1)		(Solid)		Lab File ID: NT1402032311.D				Analyzed: 02/03/23 19:09	
1,4-Dichlorobenzene-d4	55061	8.939	64946	8.946	85	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	223857	11.436	262858	11.436	85	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	148336	15.057	167543	15.057	89	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	300515	18.101	341039	18.093	88	50 - 200	0.008	+/-0.50	
Chrysene-d12	124060	23.162	222731	23.154	56	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	215414	24.192	333425	24.184	65	50 - 200	0.008	+/-0.50	
Perylene-d12	128985	25.748	152721	25.725	84	50 - 200	0.023	+/-0.50	
LDW23-SC1053C (22L0459-02)		(Solid)		Lab File ID: NT1402032312.D				Analyzed: 02/03/23 19:45	
1,4-Dichlorobenzene-d4	53986	8.939	64946	8.946	83	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	224993	11.429	262858	11.436	86	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	136330	15.057	167543	15.057	81	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	276432	18.101	341039	18.093	81	50 - 200	0.008	+/-0.50	
Chrysene-d12	111917	23.162	222731	23.154	50	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	195398	24.184	333425	24.184	59	50 - 200	0.000	+/-0.50	
Perylene-d12	118107	25.74	152721	25.725	77	50 - 200	0.015	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0035	Instrument:	NT14
		Calibration:	GA00072

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SC1039C (22L0459-03)		(Solid)		Lab File ID: NT1402032313.D				Analyzed: 02/03/23 20:21	
1,4-Dichlorobenzene-d4	58140	8.938	64946	8.946	90	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	241442	11.428	262858	11.436	92	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	151857	15.057	167543	15.057	91	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	310836	18.101	341039	18.093	91	50 - 200	0.008	+/-0.50	
Chrysene-d12	130041	23.17	222731	23.154	58	50 - 200	0.016	+/-0.50	
Di-n-Octylphthalate-d4	219906	24.192	333425	24.184	66	50 - 200	0.008	+/-0.50	
Perylene-d12	142987	25.748	152721	25.725	94	50 - 200	0.023	+/-0.50	
LDW23-SC1007B (22L0459-04)		(Solid)		Lab File ID: NT1402032314.D				Analyzed: 02/03/23 20:57	
1,4-Dichlorobenzene-d4	58618	8.938	64946	8.946	90	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	242204	11.436	262858	11.436	92	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	158986	15.057	167543	15.057	95	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	312112	18.101	341039	18.093	92	50 - 200	0.008	+/-0.50	
Chrysene-d12	124364	23.162	222731	23.154	56	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	205867	24.184	333425	24.184	62	50 - 200	0.000	+/-0.50	
Perylene-d12	137392	25.74	152721	25.725	90	50 - 200	0.015	+/-0.50	
LDW23-SC1002C (22L0459-05)		(Solid)		Lab File ID: NT1402032315.D				Analyzed: 02/03/23 21:33	
1,4-Dichlorobenzene-d4	52740	8.939	64946	8.946	81	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	219020	11.436	262858	11.436	83	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	145876	15.057	167543	15.057	87	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	293146	18.101	341039	18.093	86	50 - 200	0.008	+/-0.50	
Chrysene-d12	130310	23.17	222731	23.154	59	50 - 200	0.016	+/-0.50	
Di-n-Octylphthalate-d4	205005	24.192	333425	24.184	61	50 - 200	0.008	+/-0.50	
Perylene-d12	127634	25.748	152721	25.725	84	50 - 200	0.023	+/-0.50	
LDW23-SC1070B (22L0459-06)		(Solid)		Lab File ID: NT1402032316.D				Analyzed: 02/03/23 22:09	
1,4-Dichlorobenzene-d4	55979	8.939	64946	8.946	86	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	227537	11.436	262858	11.436	87	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	139608	15.057	167543	15.057	83	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	293690	18.101	341039	18.093	86	50 - 200	0.008	+/-0.50	
Chrysene-d12	129947	23.17	222731	23.154	58	50 - 200	0.016	+/-0.50	
Di-n-Octylphthalate-d4	214318	24.192	333425	24.184	64	50 - 200	0.008	+/-0.50	
Perylene-d12	154817	25.756	152721	25.725	101	50 - 200	0.031	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0035	Instrument:	NT14
		Calibration:	GA00072

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SC1091B (22L0459-07)		(Solid)		Lab File ID: NT1402032317.D				Analyzed: 02/03/23 22:45	
1,4-Dichlorobenzene-d4	57886	8.939	64946	8.946	89	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	239069	11.436	262858	11.436	91	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	156006	15.057	167543	15.057	93	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	302566	18.101	341039	18.093	89	50 - 200	0.008	+/-0.50	
Chrysene-d12	110676	23.162	222731	23.154	50	50 - 200	0.008	+/-0.50	*
Di-n-Octylphthalate-d4	193367	24.184	333425	24.184	58	50 - 200	0.000	+/-0.50	
Perylene-d12	128365	25.748	152721	25.725	84	50 - 200	0.023	+/-0.50	
Calibration Check (SLB0035-CCV1)		(Water)		Lab File ID: NT1402032319.D				Analyzed: 02/03/23 23:57	
1,4-Dichlorobenzene-d4	59568	8.939	64946	8.946	92	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	245878	11.436	262858	11.436	94	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	150300	15.057	167543	15.057	90	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	297685	18.093	341039	18.093	87	50 - 200	0.000	+/-0.50	
Chrysene-d12	103667	23.155	222731	23.154	47	50 - 200	0.001	+/-0.50	*
Di-n-Octylphthalate-d4	220056	24.184	333425	24.184	66	50 - 200	0.000	+/-0.50	
Perylene-d12	99462	25.725	152721	25.725	65	50 - 200	0.000	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SC1123B 22L0459-01	12/16/22 08:19	12/16/22 15:47	01/05/23 16:13	20	365	02/03/23 17:56	29	40	
LDW23-SC1053C 22L0459-02	12/16/22 09:12	12/16/22 15:47	01/05/23 16:13	20	365	02/03/23 19:45	29	40	
LDW23-SC1039C 22L0459-03	12/16/22 09:50	12/16/22 15:47	01/05/23 16:13	20	365	02/03/23 20:21	29	40	
LDW23-SC1007B 22L0459-04	12/16/22 10:43	12/16/22 15:47	01/05/23 16:13	20	365	02/03/23 20:57	29	40	
LDW23-SC1002C 22L0459-05	12/16/22 11:20	12/16/22 15:47	01/05/23 16:13	20	365	02/03/23 21:33	29	40	
LDW23-SC1070B 22L0459-06	12/16/22 12:01	12/16/22 15:47	01/05/23 16:13	20	365	02/03/23 22:09	29	40	
LDW23-SC1091B 22L0459-07	12/16/22 12:38	12/16/22 15:47	01/05/23 16:13	20	365	02/03/23 22:45	29	40	
Matrix Spike BLA0064-MS1	12/16/22 08:19	12/16/22 15:47	01/05/23 16:13	20	365	02/03/23 18:32	29	40	
Matrix Spike Dup BLA0064-MSD1	12/16/22 08:19	12/16/22 15:47	01/05/23 16:13	20	365	02/03/23 19:09	29	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: NT14

Analyte	MDL	RL	Units
Phenol	4.4	20.0	ug/kg
4-Methylphenol	7.4	20.0	ug/kg
Naphthalene	4.2	20.0	ug/kg
2-Methylnaphthalene	4.5	20.0	ug/kg
Acenaphthylene	6.2	20.0	ug/kg
Dimethylphthalate	4.4	20.0	ug/kg
Acenaphthene	5.2	20.0	ug/kg
Dibenzofuran	14.1	20.0	ug/kg
Fluorene	14.6	20.0	ug/kg
Phenanthrene	8.7	20.0	ug/kg
Anthracene	7.2	20.0	ug/kg
Fluoranthene	6.1	20.0	ug/kg
Pyrene	5.7	20.0	ug/kg
Butylbenzylphthalate	9.4	20.0	ug/kg
Benzo(a)anthracene	6.0	20.0	ug/kg
Chrysene	6.1	20.0	ug/kg
bis(2-Ethylhexyl)phthalate	5.5	50.0	ug/kg
Benzofluoranthenes, Total	10.0	40.0	ug/kg
Benzo(a)pyrene	4.2	20.0	ug/kg
Indeno(1,2,3-cd)pyrene	14.7	20.0	ug/kg
Dibenzo(a,h)anthracene	17.2	20.0	ug/kg
Benzo(g,h,i)perylene	13.6	20.0	ug/kg

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: NA

Chemical: Tributyl Phosphate

Manufacturer: Chemservice

Product #: O-916

Lot #: 59-57A

Purity: 99%

Analyst: VB

Element: B000954

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001873

Printed: 9/23/2013 11:47:03AM

Description:	SVOC 4,4 DDT	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	23-Sep-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 11:46 by JZ
Vendor:	Chem Service	Lot #:	198-128A
Vendor Catalog #:			

Comments

Neat, Purity @ 99.2%. (ARI#: 790A)

Analyte	CAS Number	Concentration	Units
4,4'-DDT	50-29-3	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 4,4' DDT

Manufacturer: Chem Service

Product #: _____

Lot #: 198-128A

Purity: 99.2%

Analyst: AB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001875

Printed: 9/23/2013 12:13:55PM

Description:	SVOC alpha-Terpineol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 12:13 by JZ
Vendor:	ACROS Organics	Lot #:	AD16481201
Vendor Catalog #:			

Comments

Neat, Purity @ 98%. (ARI#: I1582A)

Analyte	CAS Number	Concentration	Units
alpha-Terpineol	98-55-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: alpha-Terpineol

Manufacturer: Acros Organics

Product #: _____

Lot #: A0648170 1

Purity: 98%

Analyst: JZ

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001885

Printed: 9/23/2013 3:45:57PM

Description:	SVOA Dibutyl Phenyl phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:45 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98.9%.

Analyte	CAS Number	Concentration	Units
Dibutyl Phenyl Phosphate	2528-36-1	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Dibutyl Phenyl Phosphate

Manufacturer: Monsanto

Product #: N/A

Lot #: N/A

Purity: 98.9%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001886

Printed: 9/23/2013 3:59:35PM

Description:	SVOC Triphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:59 by JZ
Vendor:	Aldrich	Lot #:	04902CM
Vendor Catalog #:			

Comments

Neat, Purity @ 99%.

Analyte	CAS Number	Concentration	Units
Triphenyl Phosphate	115-86-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Triphenyl Phosphate

Manufacturer: Aldrich

Product #: _____

Lot #: 04907CM

Purity: 99%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001887

Printed: 9/23/2013 4:18:55PM

Description:	SVOC Butylated Hydroxytoluene	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 16:18 by JZ
Vendor:	SIGMA	Lot #:	39F-0197
Vendor Catalog #:			

Comments

neat,Purity @ 99.9%.

Analyte	CAS Number	Concentration	Units
Butylated Hydroxytoluene	128-37-0	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butylated Hydroxytoluene

Manufacturer: Sigma

Product #: _____

Lot #: 39F-0197

Purity: 99.8%

Analyst: AR.

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001890

Printed: 9/23/2013 5:02:53PM

Description:	SVOC Butyl Diphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 17:02 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Butyl Diphenyl Phosphate	2752-95-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butyl Diphenyl Phosphate

Manufacturer: Monsanto

Product #: NA

Lot #: NA

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001941

Printed: 9/25/2013 1:45:31PM

Description:	SVOC 2,4-Dinitrophenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 13:45 by JZ
Vendor:	SIGMA	Lot #:	65H5021
Vendor Catalog #:			

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

Analyte	CAS Number	Concentration	Units
2,4-Dinitrophenol	51-28-5	1000000	ug/mL

B001941
SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: bEH 502 1

Purity: 90 ~ 94%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001945

Printed: 9/25/2013 3:23:22PM

Description:	SVOC Benzoic Acid	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:23 by JZ
Vendor:	ACROS Organics	Lot #:	A0224339
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Benzoic acid	65-85-0	1000000	ug/mL

B001945
SVOC Benzoic Acid
Expires 12/31/2029
Prepared By Jianqing Zhou 12/31/2012

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0224339

Purity: 98%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001948

Printed: 9/25/2013 3:37:51PM

Description:	SVOC 4,6-Dinitro-2-Methylphenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:37 by JZ
Vendor:	Chem Service	Lot #:	179-31A
Vendor Catalog #:			

Comments

Neat, Purity @ 99%. (ARI#: 009A)

Analyte	CAS Number	Concentration	Units
4,6-Dinitro-2-methylphenol	534-52-1	1000000	ug/mL

B001948
SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: KB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002054

Printed: 10/4/2013 6:32:21PM

Description:	SVOA 1-Methylnaphthalene	Expires:	02-Apr-14
Standard Type:	Analyte Spike	Prepared:	13-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	04-Oct-13 18:32 by JZ
Vendor:	Chem Service	Lot #:	62-5B
Vendor Catalog #:			

Comments

Neat, Purity @ 99%

Analyte	CAS Number	Concentration	Units
1-Methylnaphthalene	90-12-0	1000000	ug/mL

B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 67-53

Purity: 99%

Analyst: AZ

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002135

Printed: 10/15/2013 12:07:39PM

Description:	SVOA Benzidine	Expires:	31-Dec-29
Standard Type:	Analyte Spike	Prepared:	15-Oct-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	15-Oct-13 12:07 by JZ
Vendor:	SIGMA	Lot #:	18C0024
Vendor Catalog #:			

Comments

Purity @ 95%. ARI#: 0467.

Analyte	CAS Number	Concentration	Units
Benzidine	92-87-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzidine

Manufacturer: Sigma

Product #: B-3503

Lot #: 18C0024

Purity: 98%

Analyst: [signature]

Certificate of Analysis

Product Name:	1,2,4,5-Tetrachlorobenzene
Product Description:	98%
Product Brand:	Sigma-Aldrich
Product Number:	131857
Molecular Weight:	215.89
CAS Number:	95-94-3

TEST	SPECIFICATION	LOT 19309JR RESULTS
APPEARANCE	WHITE POWDER, CHIPS OR CRYSTALS	WHITE CHIPS
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE AND STANDARD AS
** **		ILLUSTRATED ON PAGE 1011C OF EDITION I,
** **		VOLUME 1 OF "THE ALDRICH LIBRARY OF FT-IR
** **		SPECTRA".
GAS LIQUID	97.5% (MINIMUM)	99.9 %
QUALITY CONTROL		JULY 1997

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

F009172
SVOC 1,2,4,5-Tetrachlorobenzene
Expires 12/31/2079
Prepared By Joshua Rains 10/6/2017

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www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAC9813
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9813.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005199
SVOA-ABN BASE STOCK-200-800ug/ml
Expires 5/31/2023
Prepared By Jianqing Zhou 5/18/2021

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
3,3'-DICHLOROBENZIDINE CAS# 91-94-1	802	µg/mL	99.9	LC27068
2,4-DINITROTOLUENE CAS# 121-14-2	802	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	801	µg/mL	99.9	LB79891
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	802	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	801	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	201	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	803	µg/mL	100.0	10126MG
4-CHLOROANILINE CAS# 106-47-8	803	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	802	µg/mL	99.9	LC05068
3-NITROANILINE CAS# 99-09-2	802	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	802	µg/mL	99.9	LC11400
PYRIDINE (LOW WATER) CAS# 110-86-1	802	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date: 12-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9813.01	12-May-2021	Original Release Date

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Certificate of Composition - Analytical Standard

ACID STOC"

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005200
SVOA-ABN ACID STOCK-200-800ug/ml
Solvent / Lot: DCM
Prep: 5/18/2021 by JZ
Exp: 5/31/2023
Location:

JZ 5/18/21

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	802	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	802	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	802	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1806	µg/mL	75.9	MKBP5833V
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	803	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	801	µg/mL	99.9	JS00013
4-NITROPHENOL CAS# 100-02-7	801	µg/mL	99.9	LC10889
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1804	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	803	µg/mL	98.7	MKCK8156
BENZOIC ACID CAS# 65-85-0	1805	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0167617

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2024 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

J005610
CLP 04.1 BNA SURR MIX
Expires 9/30/2024
Prepared By Jianqing Zhou 5/26/2021

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBF3761V) **Purity** 99%	1,506.0 µg/mL	+/- 8.9452 µg/mL +/- 43.9882 µg/mL +/- 53.3632 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31658) **Purity** 99%	1,512.0 µg/mL	+/- 8.9808 µg/mL +/- 44.1635 µg/mL +/- 53.5758 µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot M-2097) **Purity** 99%	1,006.0 µg/mL	+/- 5.9753 µg/mL +/- 29.3839 µg/mL +/- 35.6463 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940B) **Purity** 99%	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 29.2671 µg/mL +/- 35.5046 µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00019169) **Purity** 99%	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 29.2671 µg/mL +/- 35.5046 µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot S55013V) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed

8	p-Terphenyl-d14		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)			+/-	29.2671	µg/mL	Unstressed
	Purity 99%				+/-	35.5046	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

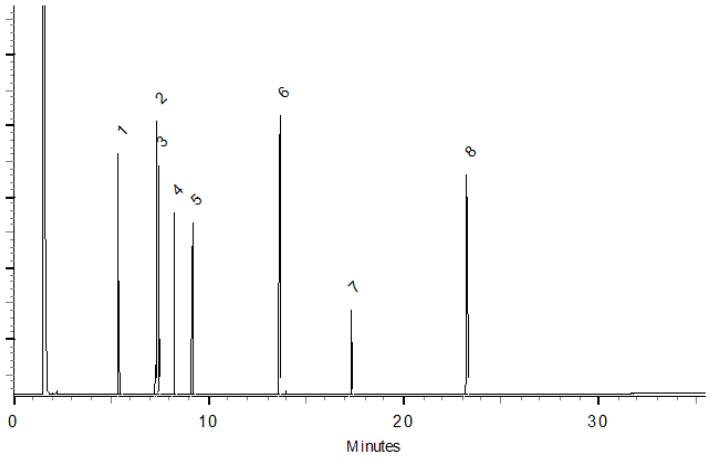
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2020 **Balance:** B345965662

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Dec-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Agilent

Certificate of Analysis

J008074

SVOA PAH STD 2000ug/ml
Expires 6/30/2023
Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Number: 0006540449

Lot Issue Date: 11-Jun-2020

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acenaphthene	000083-32-9	RM10879	2008 ± 10 µg/mL
acenaphthylene	000208-96-8	RM10891	2003 ± 10 µg/mL
anthracene	000120-12-7	RM14212	2006 ± 10 µg/mL
benz[a]anthracene	000056-55-3	RM16072	2006 ± 10 µg/mL
benzo[b]fluoranthene	000205-99-2	RM14571	2005 ± 10 µg/mL
benzo[k]fluoranthene	000207-08-9	RM14321	2009 ± 10 µg/mL
benzo[ghi]perylene	000191-24-2	RM15761	2008 ± 10 µg/mL
benzo[a]pyrene	000050-32-8	RM12669	2009 ± 10 µg/mL
chrysene	000218-01-9	RM12260	2009 ± 10 µg/mL
dibenz[a,h]anthracene	000053-70-3	RM06786	2009 ± 10 µg/mL
fluoranthene	000206-44-0	RM12277	2004 ± 10 µg/mL
fluorene	000086-73-7	RM09441	2009 ± 10 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	RM14192	2009 ± 10 µg/mL
naphthalene	000091-20-3	NT00970	2008 ± 10 µg/mL
phenanthrene	000085-01-8	RM10495	2009 ± 10 µg/mL
pyrene	000129-00-0	RM03479	2008 ± 10 µg/mL

Matrix: methylene chloride/benzene (1:1)

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Product Number: US-106N-1 **Lot Number:** 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16062
Certification Date: November 19, 2020
Expiration Date: November 30, 2030

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 2.740%
3,3'-Dichlorobenzidine	91-94-1	2000	± 3.229%

J008310
Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101443
Description: Aniline
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16571
Certification Date: March 23, 2021
Expiration Date: March 31, 2029

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 0.561%

J10387
JR 09/28/21

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

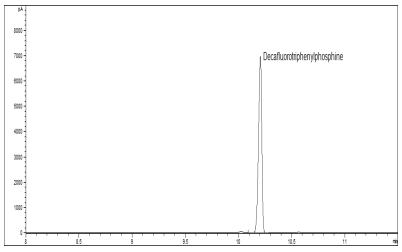
References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis - Certified Reference Material

Decafluorotriphenylphosphine solution

Product no.: 48724-U
Lot no.: LRAD0628
Expiry Date: October 2024
Manufacturing Date: September 2021
Storage: ROOM TEMPERATURE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0628.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

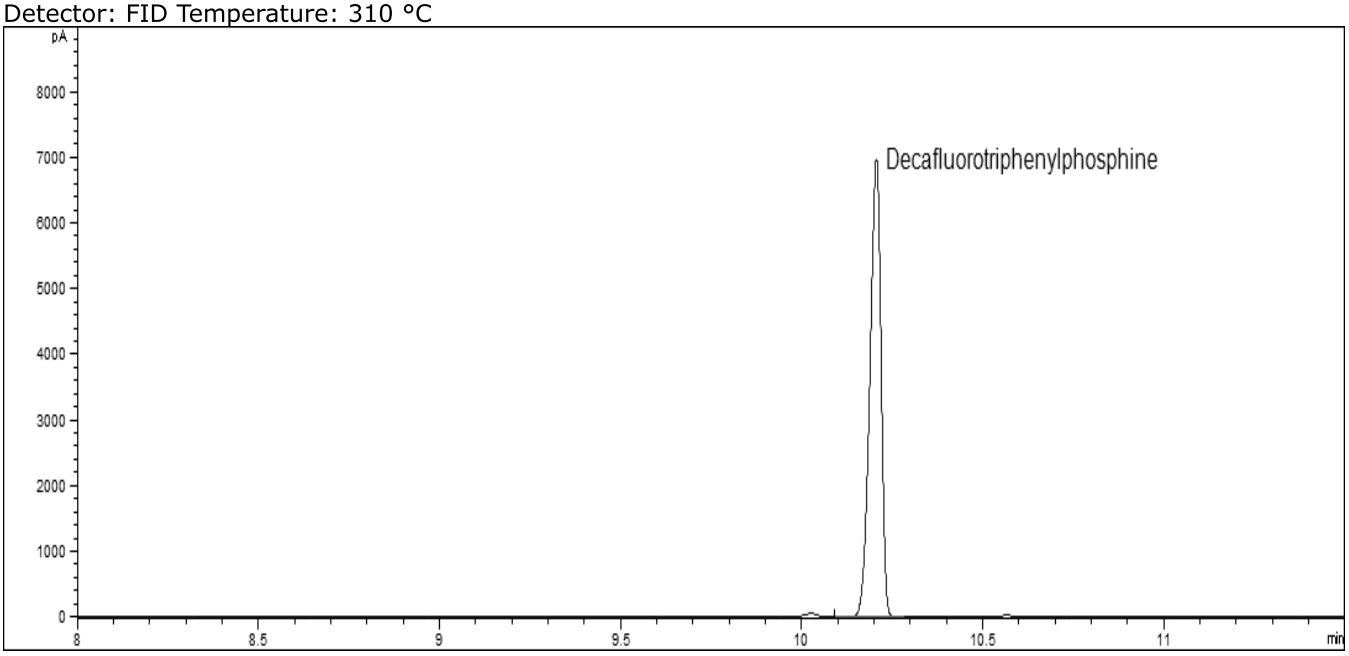


Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
DFTPP CAS# 5074-71-5	25.2 ± 2.6	mg/mL	97.0	10220909

ASSAY Method

METHOD: GC (BELLEFONTE)
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.3 mL/min
Inlet Temperature: 250 °C Injection Volume: 1 µL
Injection Mode: 25:1
Temperature Program: 120 °C (Hold 0 min) @ 12 °C/min to 260 °C (Hold 0 min)
Detector: FID Temperature: 310 °C



Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Elution details:

EO	RT(MIN)	ANALYTE
1	10.206	Decafluorotriphenylphosphine

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Minimum sample size: 1 µL

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 30-Sep-2021

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0628.01	30-Sep-2021	Original Release Date

.

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K001616
Benzidines std @2000ug/ml
Solvent / Lot: CL17662
Prep: 2/16/2022 by VS
Exp: 11/30/2031
Location: GC

A2LA ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

A2LA ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64591018_us

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246
Description: Benzoic Acid
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16692
Certification Date: April 23, 2021
Expiration Date: April 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 3.403%

K 2725

Certificate of Analysis

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Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101291	**Lot Number:**	CL11000
Description:	GC/MS Tuning Mix	**Certification Date:**	May 9, 2014
Storage:	4 °C	**Expiration Date:**	December 31, 2023
Provided As:	1 mL in 2 mL Ampoule in Methylene chloride	**Revision Date:**	August 5, 2015

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty (%)
Benzidine	92-87-5	1000	± 0.208%
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	1000	± 0.057%
4,4'-DDT	50-29-3	1000	± 0.056%
Pentachlorophenol	87-86-5	1000	± 0.061%

K003891
GC/MS Tune solution-1000ug/ml
Solvent / Lot: CL11000
Prep: 4/22/2022 by VS
Exp: 12/31/2023
Location:

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111110613_us

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-103N-1 **Lot Issue Date:** 25-May-2021

Lot Number: 0006609664 **Expiration Date:** 30-Jun-2024

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
benzoic acid	000065-85-0	RM01884	2005 ± 10 µg/mL
o-cresol	000095-48-7	RM12877	2005 ± 10 µg/mL
p-cresol	000106-44-5	RM01988	2005 ± 10 µg/mL
2,4,5-trichlorophenol	000095-95-4	NT00344	2004 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

5/11/22

K004539
toxic sub mix#1
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 6/30/2024
Location:

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: Phenols Standard
Product Number: US-107N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006648297
Lot Issue Date: 17-Nov-2021
Expiration Date: 31-Dec-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
4-chloro-3-methylphenol	2006 ±	10 µg/mL	000059-50-7	RM01885
2-chlorophenol	2007 ±	10 µg/mL	000095-57-8	RM01871
2,4-dichlorophenol	2005 ±	10 µg/mL	000120-83-2	RM13878
2,4-dimethylphenol	2006 ±	10 µg/mL	000105-67-9	RM13009
2,4-dinitrophenol	2006 ±	10 µg/mL	000051-28-5	RM02112
2-methyl-4,6-dinitrophenol	2005 ±	10 µg/mL	000534-52-1	RM02292
2-nitrophenol	2007 ±	10 µg/mL	000088-75-5	RM13445
4-nitrophenol	2006 ±	10 µg/mL	000100-02-7	RM03752
pentachlorophenol	2006 ±	10 µg/mL	000087-86-5	RM02474
phenol	2006 ±	10 µg/mL	000108-95-2	RM11471
2,4,6-trichlorophenol	2006 ±	10 µg/mL	000088-06-2	RM18096

Matrix: methylene chloride (dichloromethane)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

5/11/22

CSD-QA-015.1

K004540
phenols mix
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 12/31/2024
Location:

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: PAH Standard
Product Number: US-106N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006627349
Lot Issue Date: 17-Sep-2021
Expiration Date: 31-Oct-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
acenaphthene	2007 ±	10 µg/mL	000083-32-9	RM10879
acenaphthylene	2004 ±	10 µg/mL	000208-96-8	RM10891
anthracene	2006 ±	10 µg/mL	000120-12-7	RM14212
benz[a]anthracene	2006 ±	10 µg/mL	000056-55-3	RM16072
benzo[b]fluoranthene	2006 ±	10 µg/mL	000205-99-2	RM14571
benzo[k]fluoranthene	2006 ±	10 µg/mL	000207-08-9	RM18376
benzo[ghi]perylene	2006 ±	10 µg/mL	000191-24-2	RM15761
benzo[a]pyrene	2006 ±	10 µg/mL	000050-32-8	RM17573
chrysene	2007 ±	10 µg/mL	000218-01-9	RM13771
dibenz[a,h]anthracene	2006 ±	10 µg/mL	000053-70-3	RM06786
fluoranthene	2006 ±	10 µg/mL	000206-44-0	RM12277
fluorene	2006 ±	10 µg/mL	000086-73-7	RM09441
indeno[1,2,3-cd]pyrene	2006 ±	10 µg/mL	000193-39-5	RM14192
naphthalene	2007 ±	10 µg/mL	000091-20-3	RM10445
phenanthrene	2005 ±	10 µg/mL	000085-01-8	RM10495
pyrene	2005 ±	10 µg/mL	000129-00-0	RM16126

Matrix: methylene chloride/benzene (1:1)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

K004541
SVOA PAH STD 2000ug/ml
Solvent / Lot: DCM/BENZENE
Prep: 5/11/2022 by JZ
Exp: 10/31/2024
Location: Fridge 19

CSD-QA-015.1

11/22

Reference Materials Producer
Cert #2495.01

Certificate of Analysis

Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics**® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

Certificate of Reference Material

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021 Certifying Officer: Shannon Mora

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory , please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i, where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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ACCREDITED
Reference Materials Producer
Cert #2495.01

ECS

Certificate of Analysis

ilac-MRA ACCREDITED
Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

K004542

Certificate of Reference Material

Catalog Number: ECS-A-030

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Lot No. AA210126005

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021

Certifying Officer: Shannon Nave

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Certificate of Analysis

Product Name: 1-Methylnaphthalene Standard

Product Number: EPA-1225-1 **Lot Issue Date:** 19-Jul-2021

Lot Number: 0006624769 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-methylnaphthalene	000090-12-0	RM07712	999.3 ± 5.0 µg/mL

Matrix: methanol (methyl alcohol)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

K004543
1-Methylnaphthalene
Solvent / Lot: MEOH
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

5/11/22

Sample lot approver:
Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert
No. AT-1937

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1 **Lot Issue Date:** 02-Jul-2021

Lot Number: 0006620643 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
aniline	000062-53-3	RM12853	2005 ± 10 µg/mL
benzyl alcohol	000100-51-6	RM10547	2004 ± 10 µg/mL
4-chloroaniline	000106-47-8	RM01886	2002 ± 10 µg/mL
dibenzofuran	000132-64-9	RM02077	2002 ± 10 µg/mL
2-methylnaphthalene	000091-57-6	RM01258	2006 ± 10 µg/mL
2-nitroaniline	000088-74-4	RM02402	2003 ± 10 µg/mL
3-nitroaniline	000099-09-2	RM02424	2003 ± 10 µg/mL
4-nitroaniline	000100-01-6	RM02425	2003 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544
toxic sub mix#2
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

05/11/22

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0181243

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Elution Order	Compound	Gr (weig					
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ2508) **Purity** 99%	1,50		+/- 53.3632	µg/mL	Stressed	
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31262) **Purity** 99%	1,506.0	µg/mL	+/- 8.9452 +/- 43.9882 +/- 53.3632	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed	
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,510.0	µg/mL	+/- 8.9689 +/- 44.1050 +/- 53.5049	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed	
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32542/022621DB1 **Purity** 99%	1,004.0	µg/mL	+/- 5.9635 +/- 29.3255 +/- 35.5754	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed	
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,008.0	µg/mL	+/- 5.9872 +/- 29.4423 +/- 35.7172	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed	
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 19169) **Purity** 99%	1,006.0	µg/mL	+/- 5.9753 +/- 29.3839 +/- 35.6463	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed	
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,506.0	µg/mL	+/- 8.9452 +/- 43.9882 +/- 53.3632	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed	

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246
Description: Benzoic Acid
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17953
Certification Date: January 31, 2022
Expiration Date: January 31, 2032

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 2.714%

K004603
Benzoic Acid @2000ug/ml
Solvent / Lot: N/A
Prep: 5/13/2022 by JZ
Exp: 1/31/2032
Location: GC

5/13/22

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018 us

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Certified Reference Material

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Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K004604
Benzidines std @2000ug/ml
Solvent / Lot: MeCl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

5/13/22

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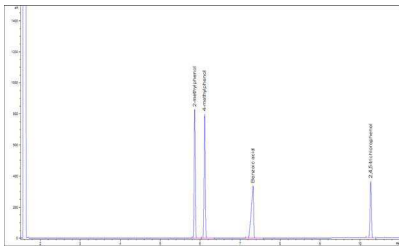
Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

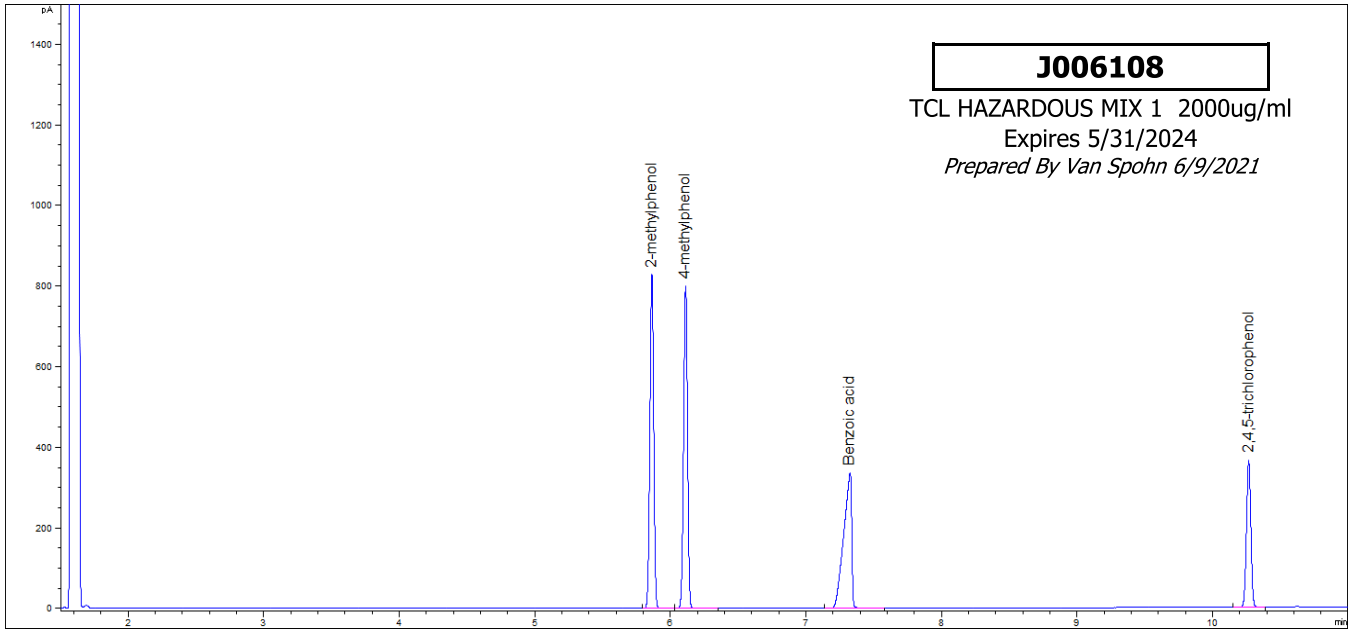
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*
2-METHYLPHENOL CAS# 95-48-7	2004 ± 9	µg/mL	99.0	1	G1735A
4-METHYLPHENOL CAS# 106-44-5	2004 ± 13	µg/mL	98.9	2	06921MG
BENZOIC ACID CAS# 65-85-0	2012 ± 6	µg/mL	99.9	3	LC16514
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	2003 ± 6	µg/mL	99.9	4	JS00008

Informational Values:



Additional Information:
Analytical Method Parameters:
Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 170 °C, Injection Volume: 1 µL
Injection Mode: Split, Split Ratio: 20:1

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9610.01	20-May-2021	Original Release Date

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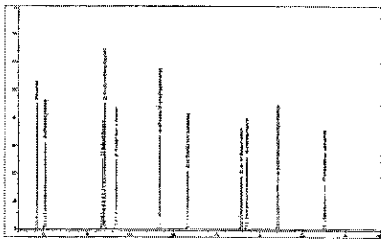
Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



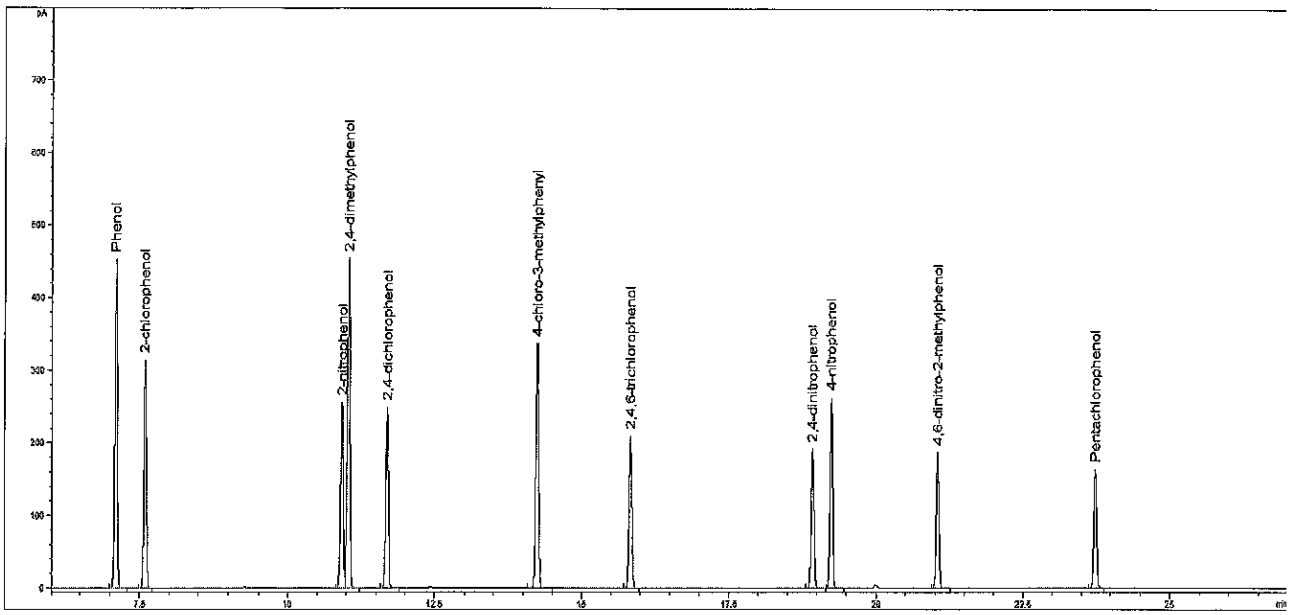
Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2-CHLOROPHENOL CAS# 95-57-8	2001 ± 25	µg/mL	99.9	STBG3033V
2-NITROPHENOL CAS# 88-75-5	1999 ± 18	µg/mL	99.3	15905BB
2,4-DIMETHYLPHENOL CAS# 105-67-9	2000 ± 14	µg/mL	99.2	05421CO
2,4-DICHLOROPHENOL CAS# 120-83-2	2000 ± 17	µg/mL	99.5	03221TN
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	2000 ± 5	µg/mL	99.9	JS00013
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	2002 ± 5	µg/mL	99.5	04212PS
2,4-DINITROPHENOL CAS# 51-28-5	2000 ± 28	µg/mL	66.9	STBJ5751
4-NITROPHENOL CAS# 100-02-7	2000 ± 33	µg/mL	99.0	04628LT
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	2000 ± 27	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	1999 ± 25	µg/mL	97.9	MKCD2150

ASSAY Method

J013597
TCL Phenols Mix 2000ug/ml
Solvent / Lot: LRAD0139
Prep: 12/30/2021 by VS
Exp: 7/31/2024
Location:

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.



METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.5 mL/min
Inlet Temperature: 200 °C Injection Volume: 1.0 µL
Injection Mode: 25:1
Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)
Detector: FID Temperature: 310 °C

Elution details:

EO	RT(MIN)	ANALYTE
1	7.095	Phenol
2	7.585	2-chlorophenol
3	10.925	2-nitrophenol
4	11.037	2,4-dimethylphenol
5	11.696	2,4-dichlorphenol
6	14.242	4-chloro-3-m3thylphenol
7	15.842	2,4,6-trichlorophenol
8	18.93	2,4-dinitrophenol
9	19.25	4-nitrophenol
10	21.05	4,6-dinitro-2-methylphenol
11	23.752	Pentachlorophenol

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0139.01	12-Jul-2021	Original Release Date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

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Certified Reference Material

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Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18355
Certification Date: July 25, 2022
Expiration Date: August 31, 2023

Aaron Dukes, Certified Reference Materials Manager

K007995
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: N/A
Prep: 8/29/2022 by JZ
Exp: 8/31/2023
Location: FREEZER 44

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 6.858%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.270%
Benzo(b)fluoranthene	205-99-2	1000	± 0.635%
Benzo(k)fluoranthene	207-08-9	1000	± 0.682%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.272%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.479%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.479%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.550%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.146%

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Certified Reference Material

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 1.058%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.518%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.518%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.518%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 1.128%

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Certified Reference Material

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.746%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.153%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.883%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.399%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.202%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1123B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-01 A	SDG:	22L0459
Sampled:	12/16/22 08:19	Prepared:	01/05/23 16:13	File ID:	NT1023020739S.D
% Solids:	56.64	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/08/23 11:51
Batch:	BLA0064	Sequence:	SLB0106	Initial/Final:	17.66 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GB00019

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	6.6		0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	2.6	J	0.7	5.0
100-51-6	Benzyl Alcohol	1	50.8		2.5	20.0
65-85-0	Benzoic acid	1	116		13.4	100
105-67-9	2,4-Dimethylphenol	1	6.9	J	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	4.9	J	1.3	5.0
87-86-5	Pentachlorophenol	1	14.8	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.80	487	64.9	27 - 120	
p-Terphenyl-d14	499.87	460	92.1	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207398.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

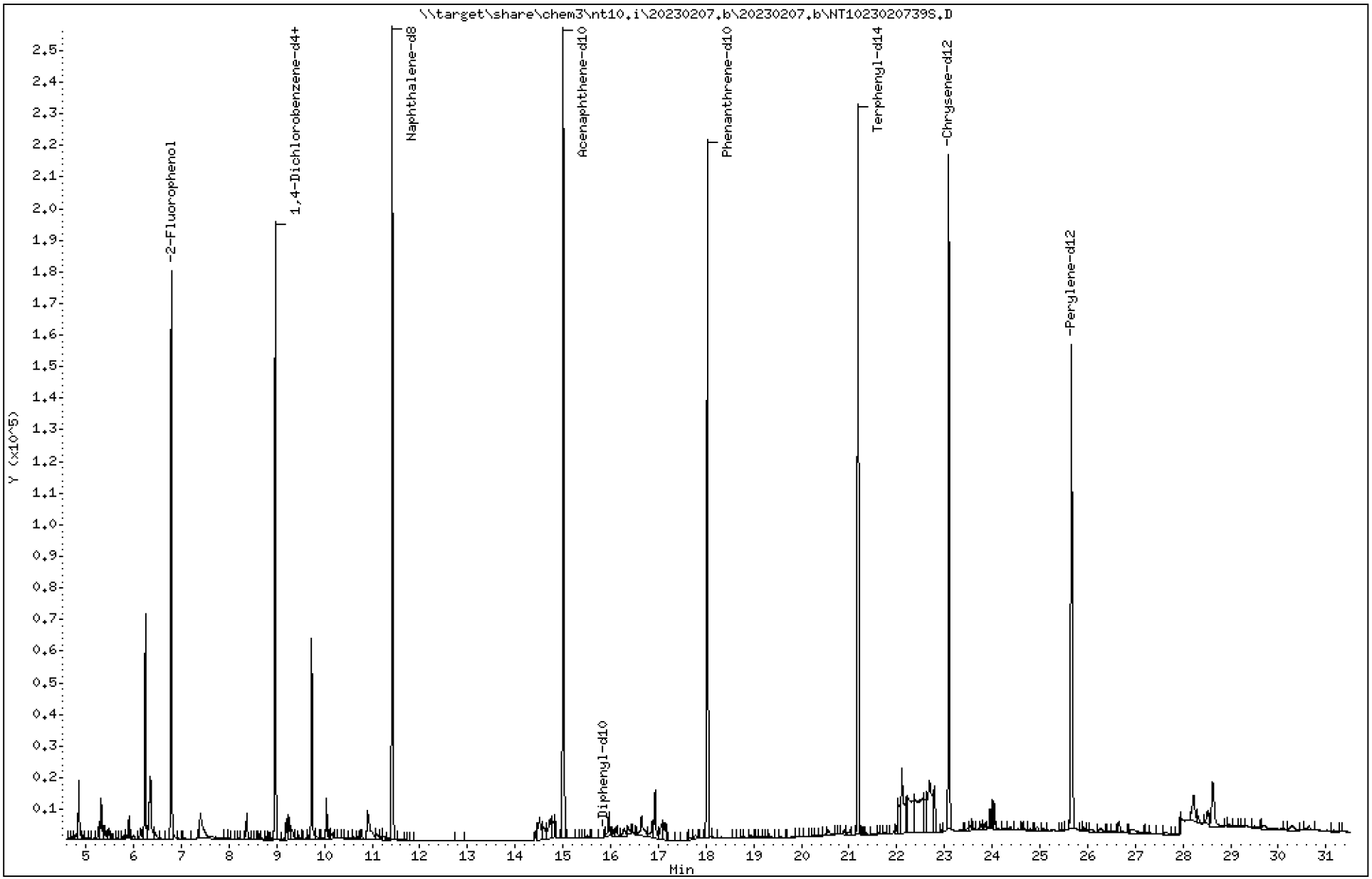
Sample Info: 22L0459-01

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207395.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

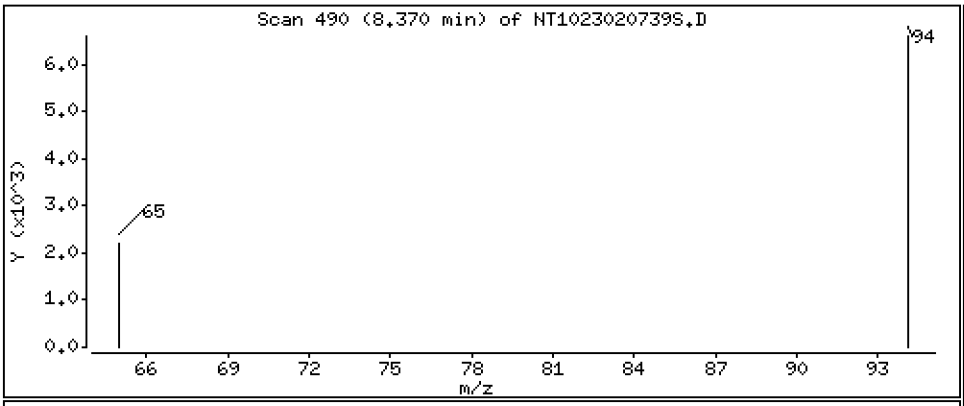
Operator: DSD

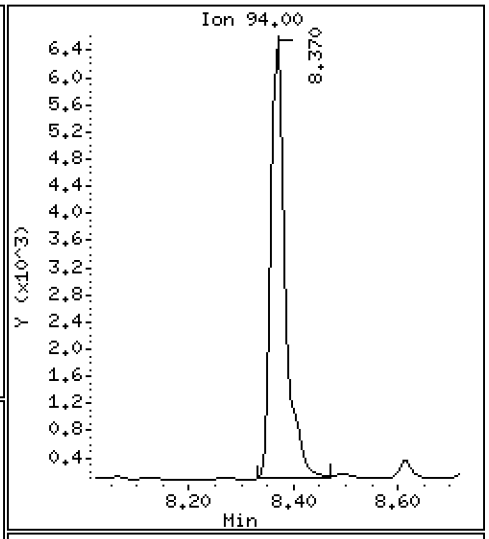
Column phase: ZB-5msi

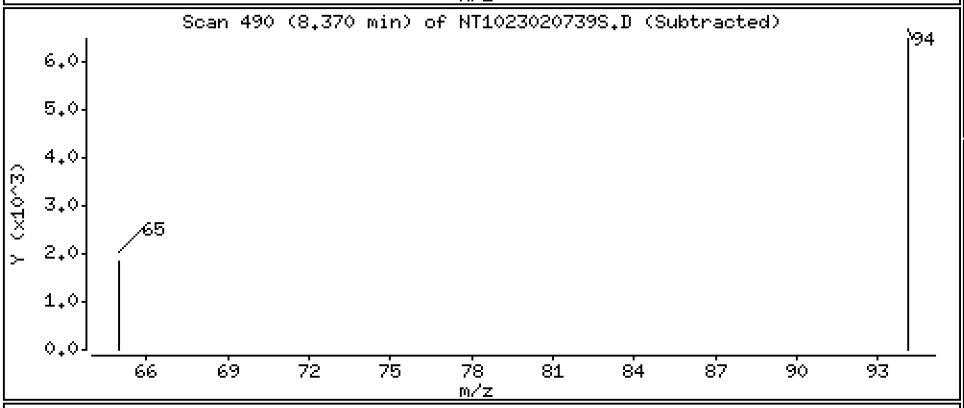
Column diameter: 0.25

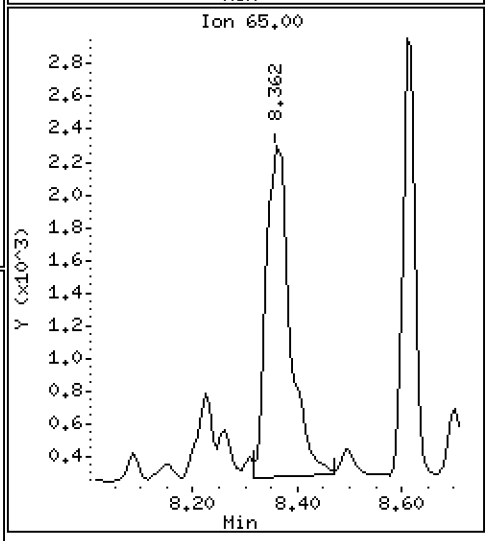
3 Phenol

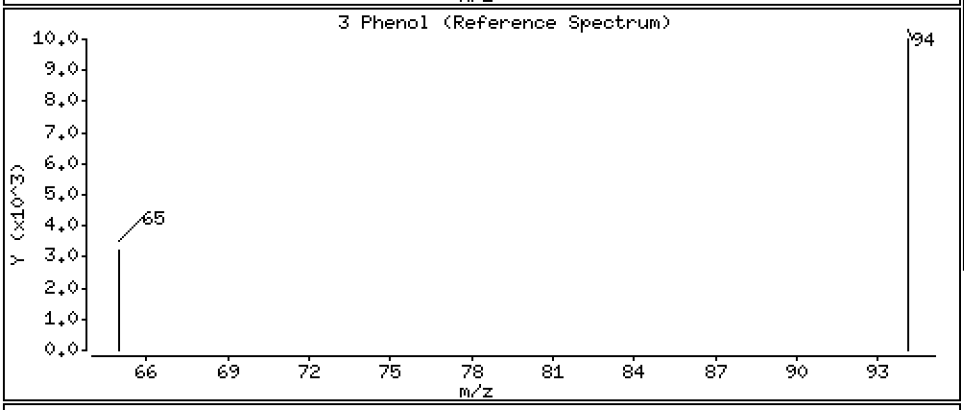
Concentration: 0.2342 ug/L

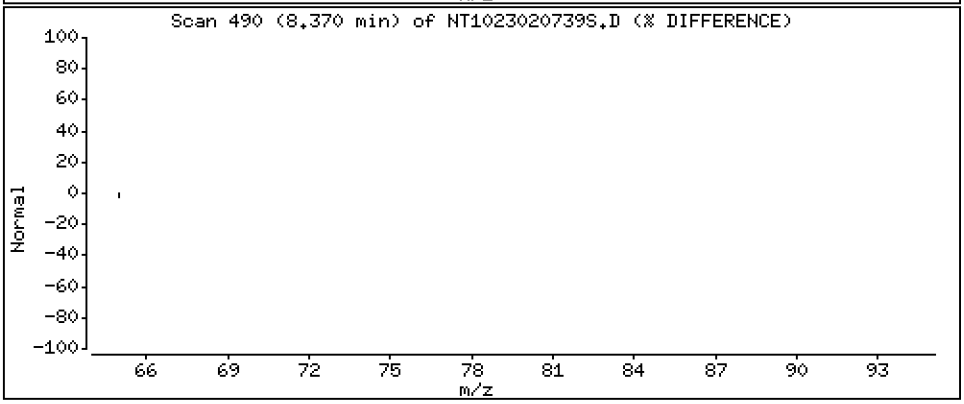












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Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

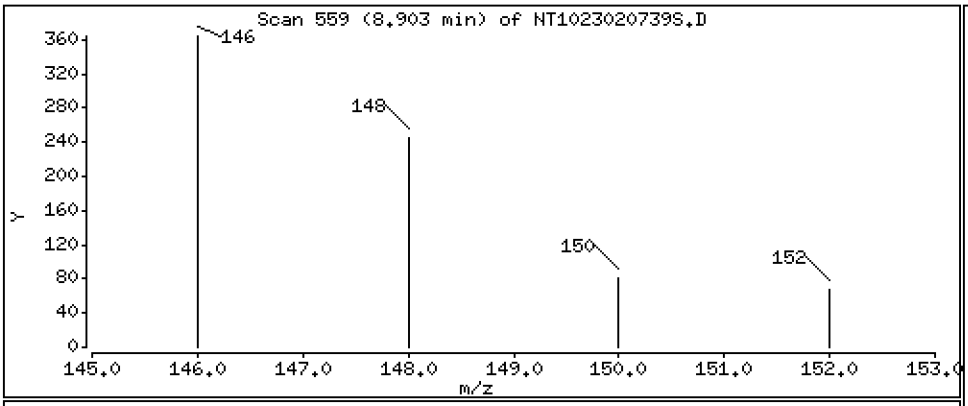
Operator: DSD

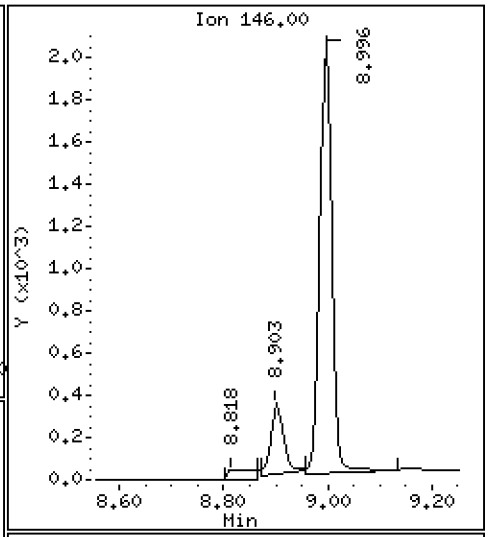
Column phase: ZB-5msi

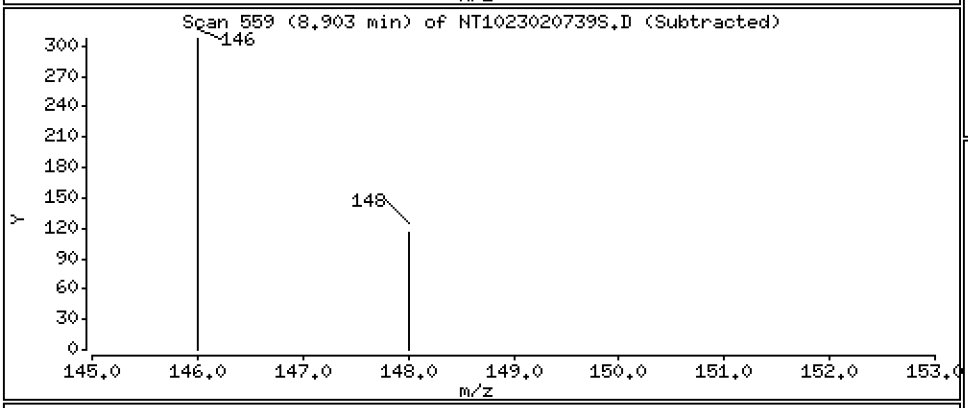
Column diameter: 0.25

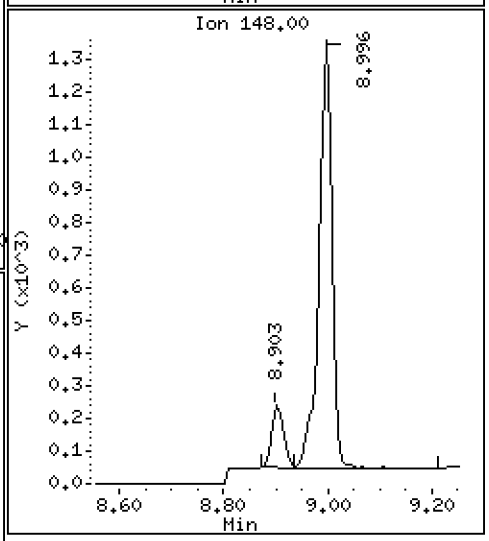
7 1,3-Dichlorobenzene

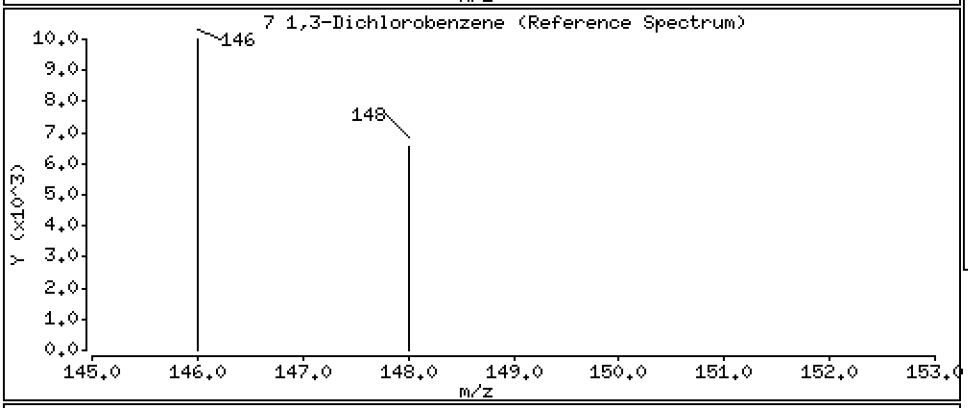
Concentration: 0.01176 ug/L

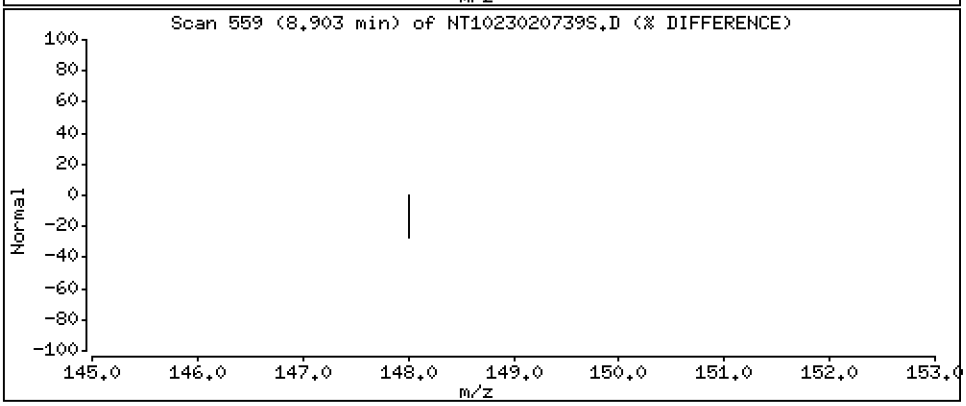












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Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

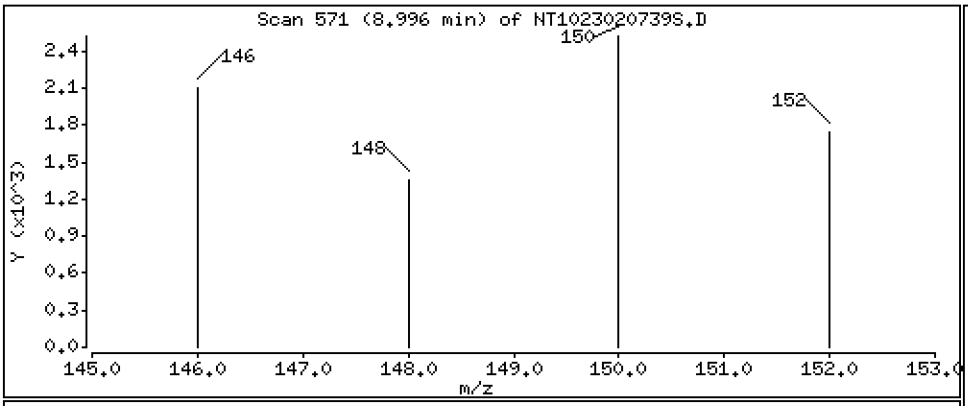
Operator: DSD

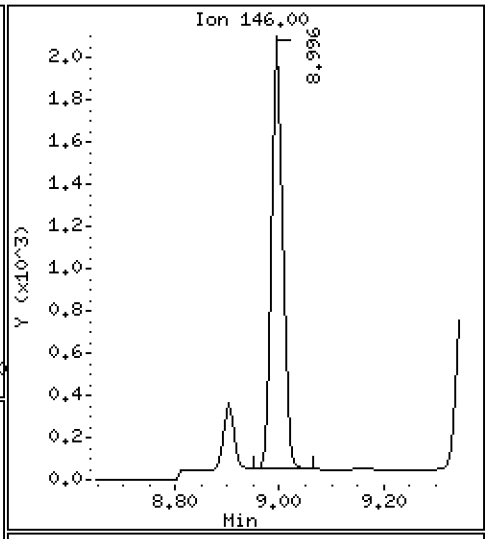
Column phase: ZB-5msi

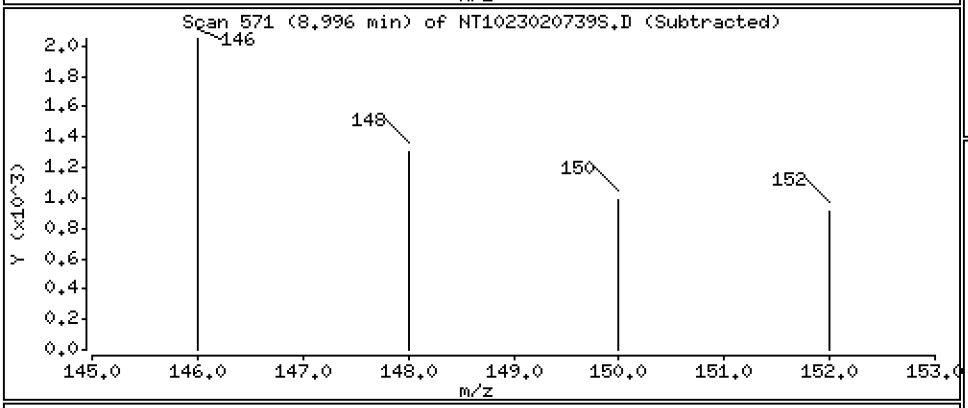
Column diameter: 0.25

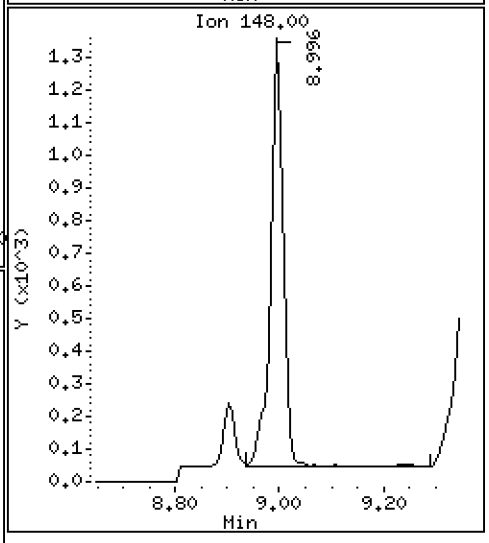
9 1,4-Dichlorobenzene

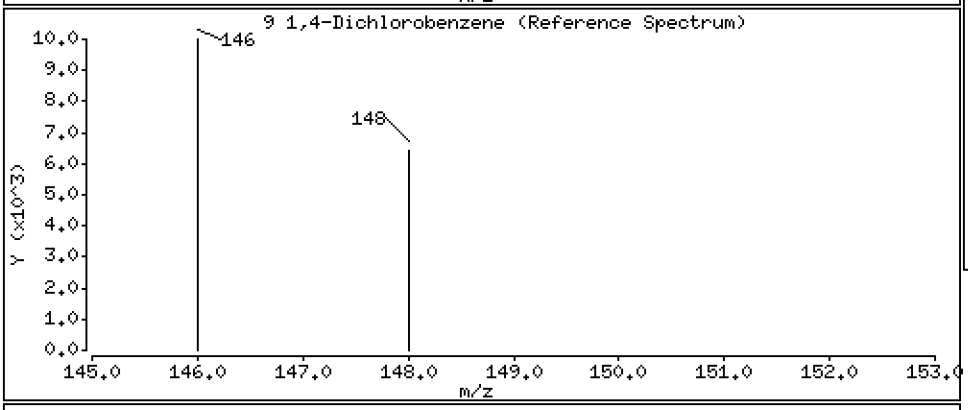
Concentration: 0.06623 ug/L

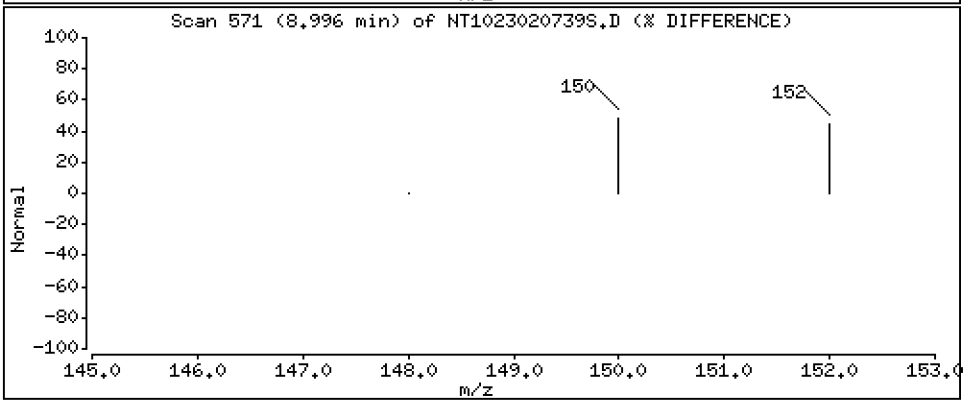












Date : 08-FEB-2023 11:51

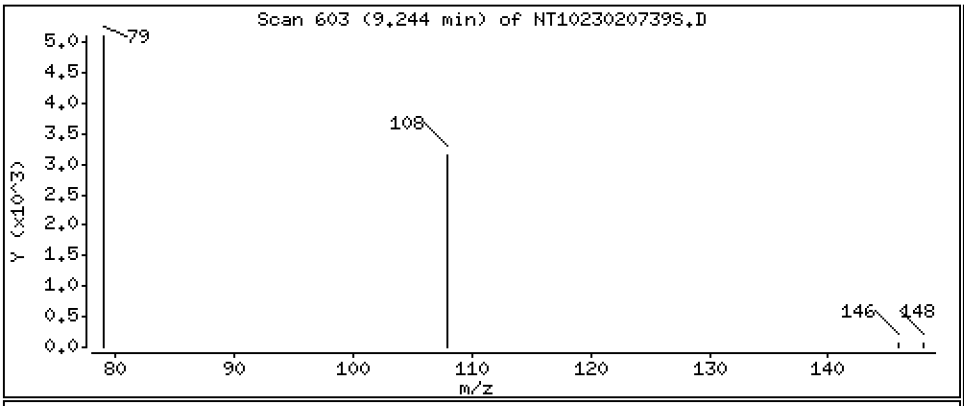
Client ID: Instrument: nt10.i

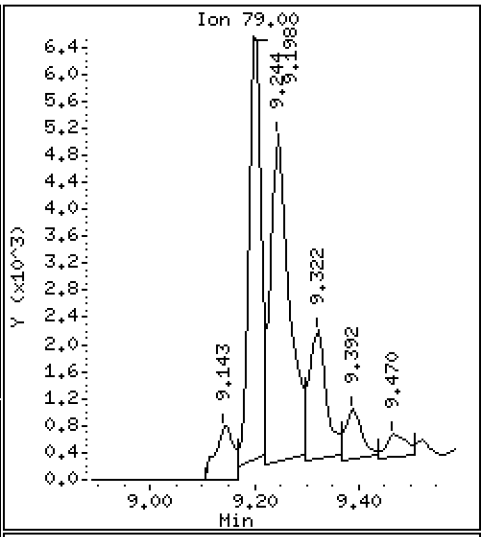
Sample Info: 22L0459-01

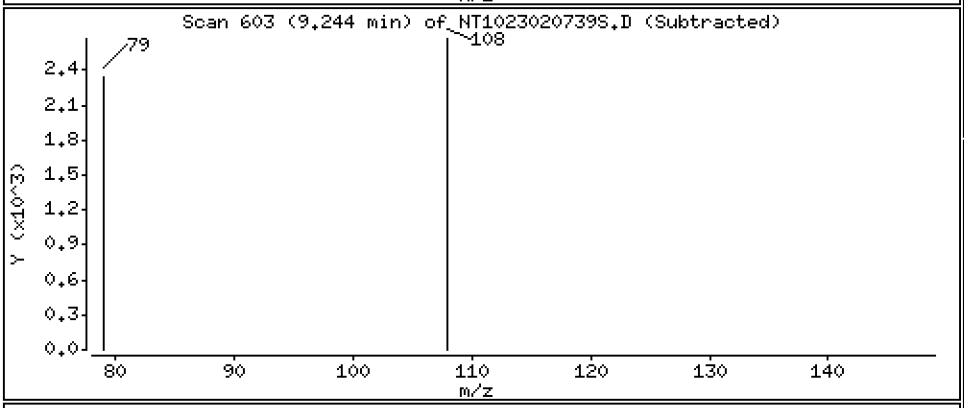
Volume Injected (uL): 1.0 Operator: DSD

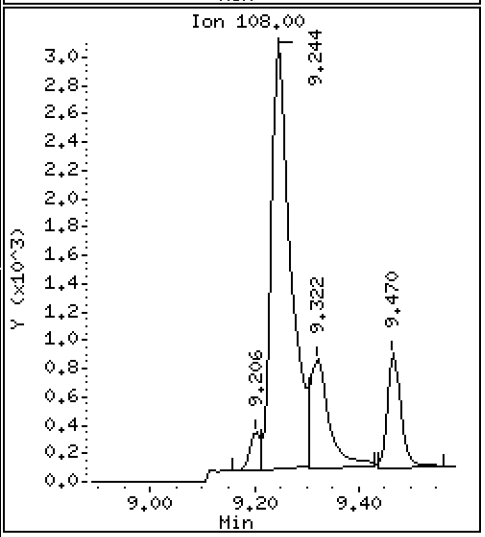
Column phase: ZB-5msi Column diameter: 0.25

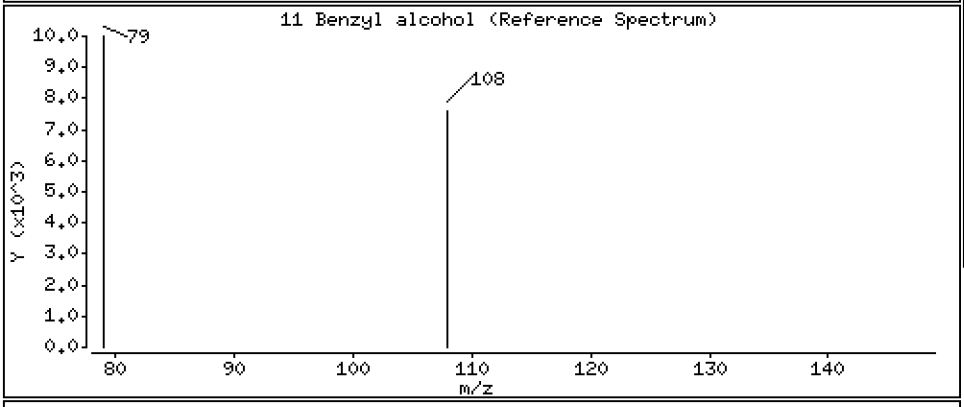
11 Benzyl alcohol Concentration: 0.5083 ug/L

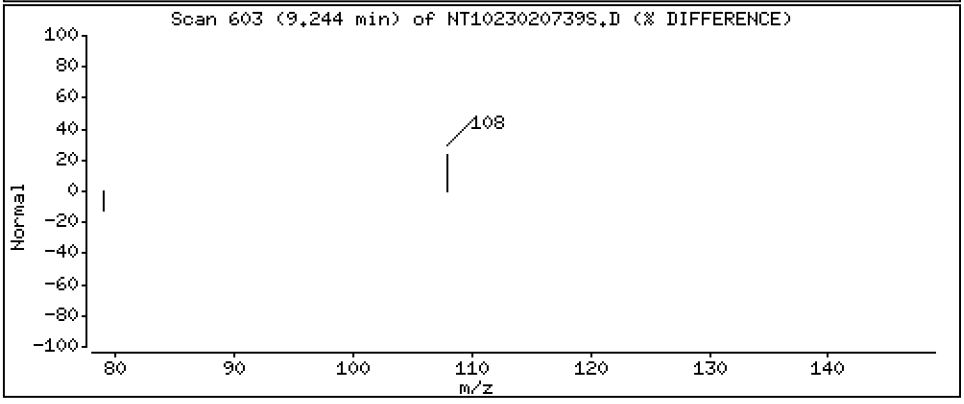












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207395.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

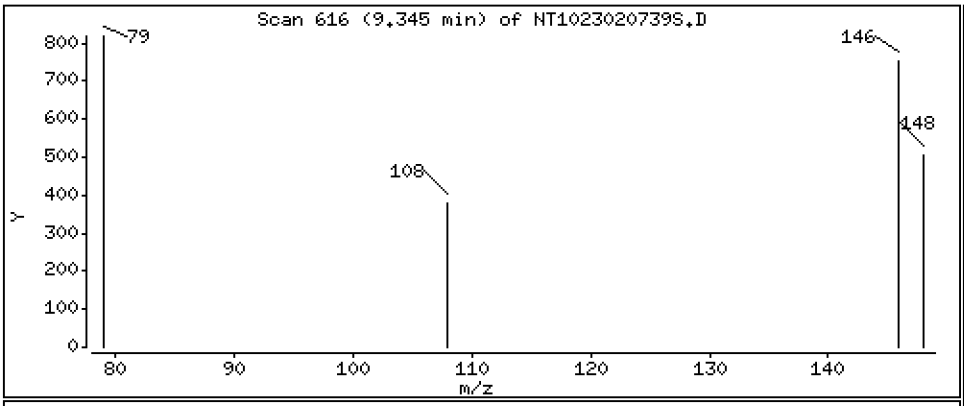
Operator: DSD

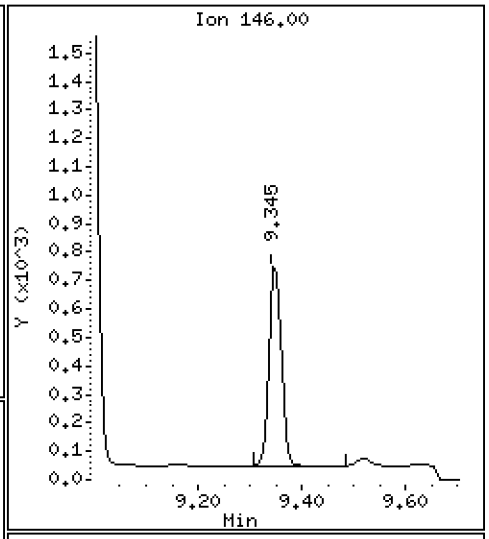
Column phase: ZB-5msi

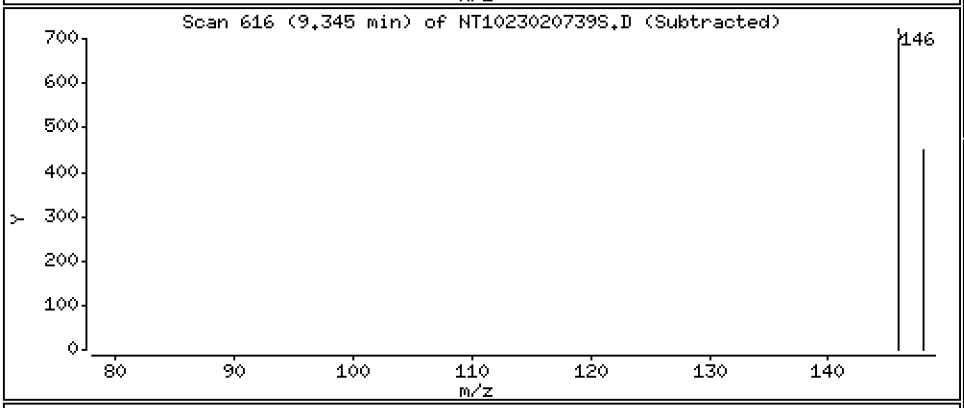
Column diameter: 0.25

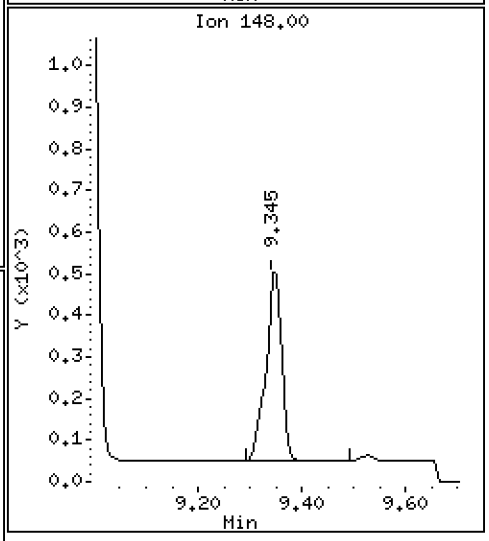
12 1,2-Dichlorobenzene

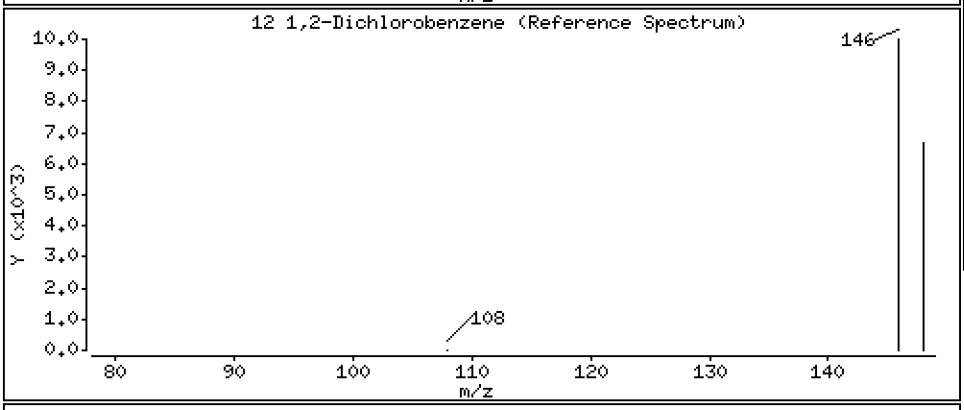
Concentration: 0.02555 ug/L

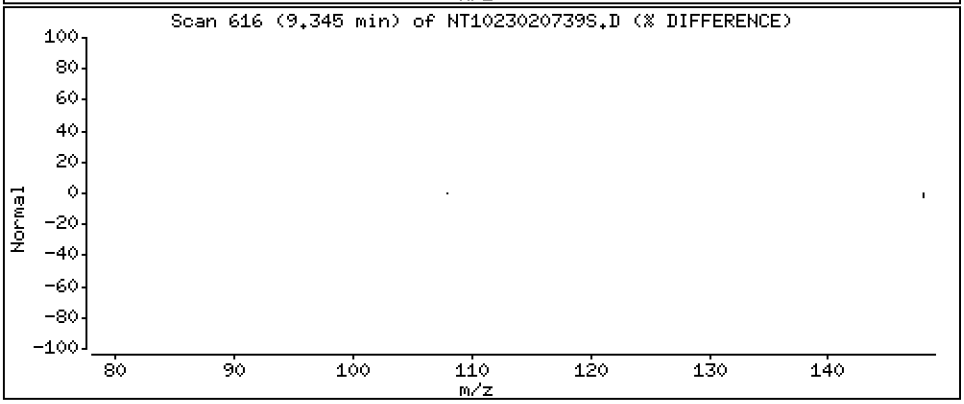












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Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

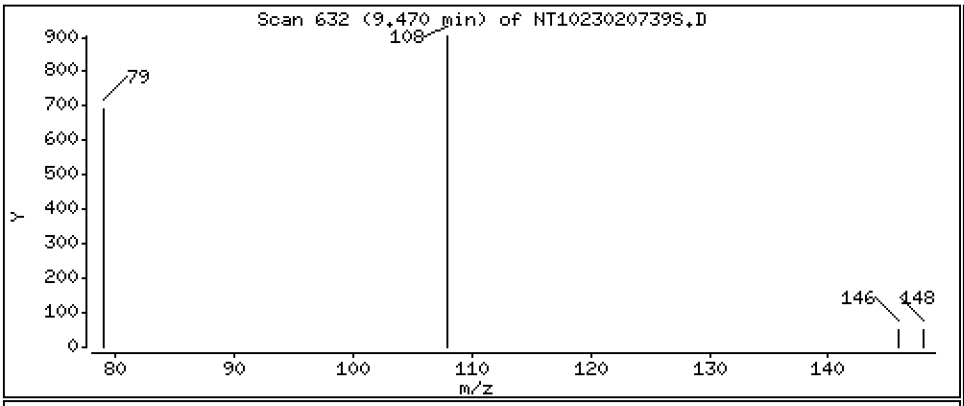
Operator: DSD

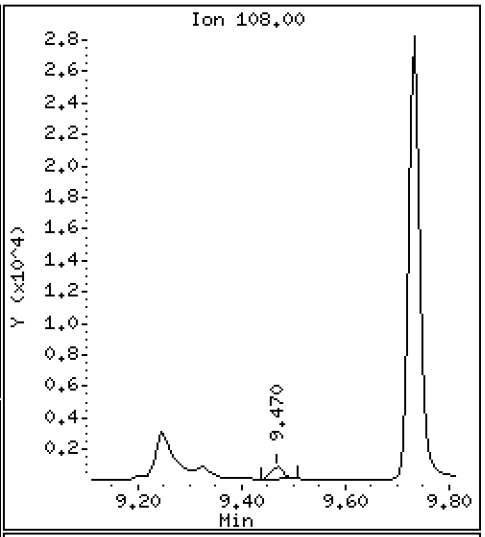
Column phase: ZB-5msi

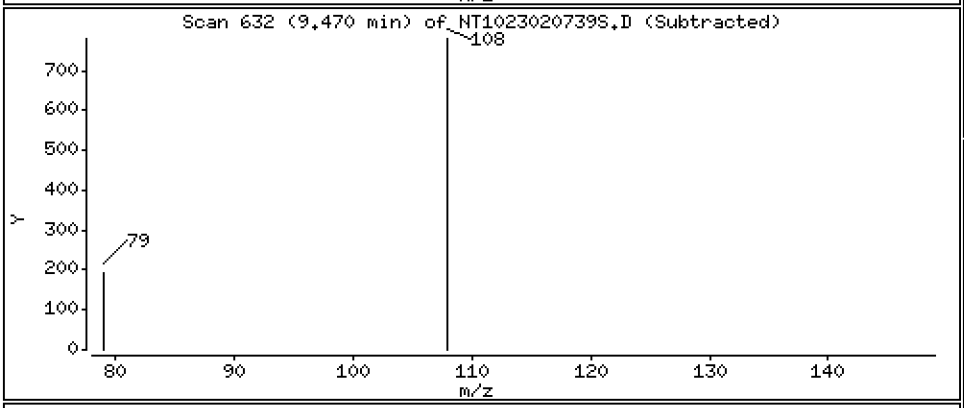
Column diameter: 0.25

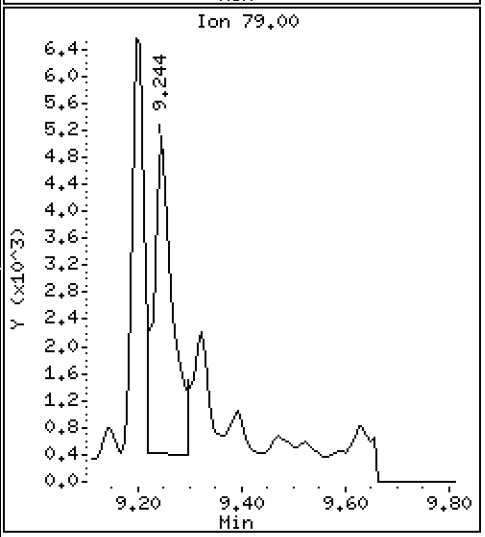
13 2-Methylphenol

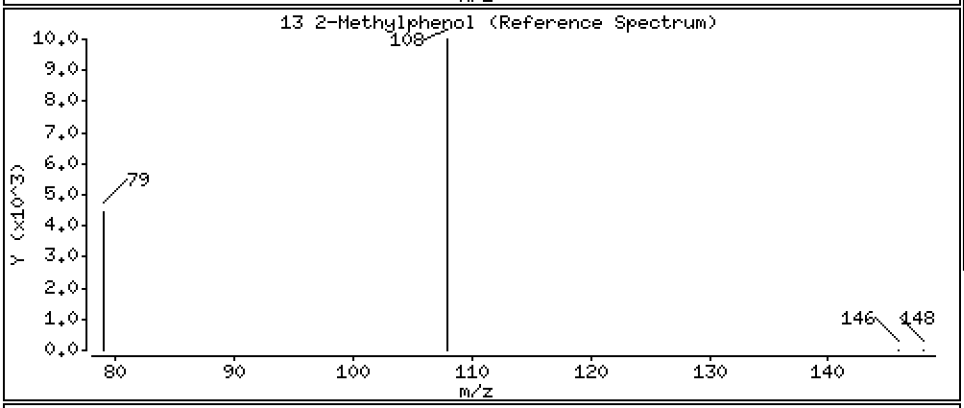
Concentration: 0.03509 ug/L

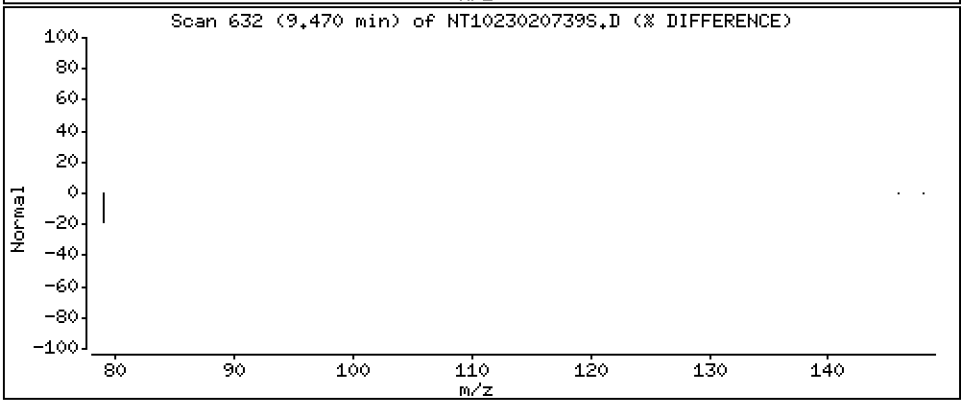












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207395.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

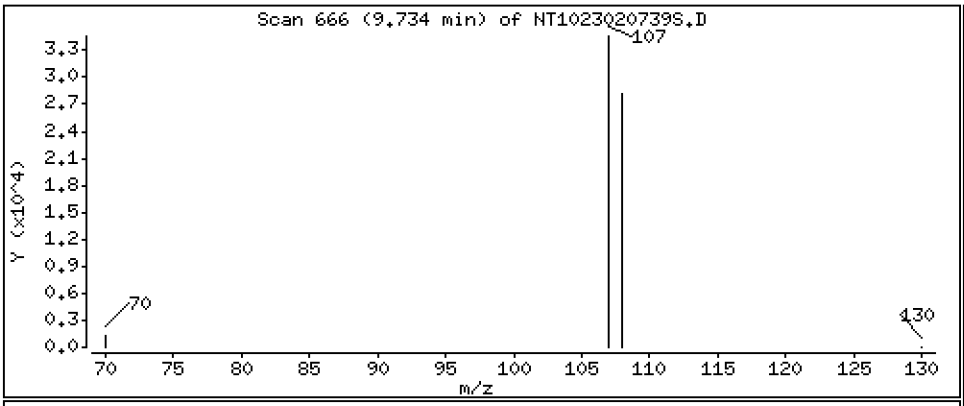
Operator: DSD

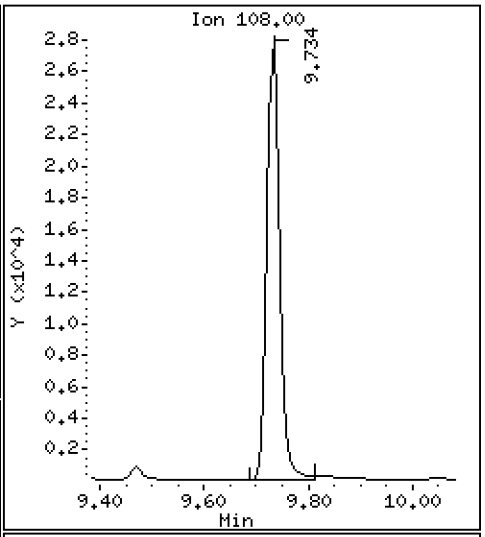
Column phase: ZB-5msi

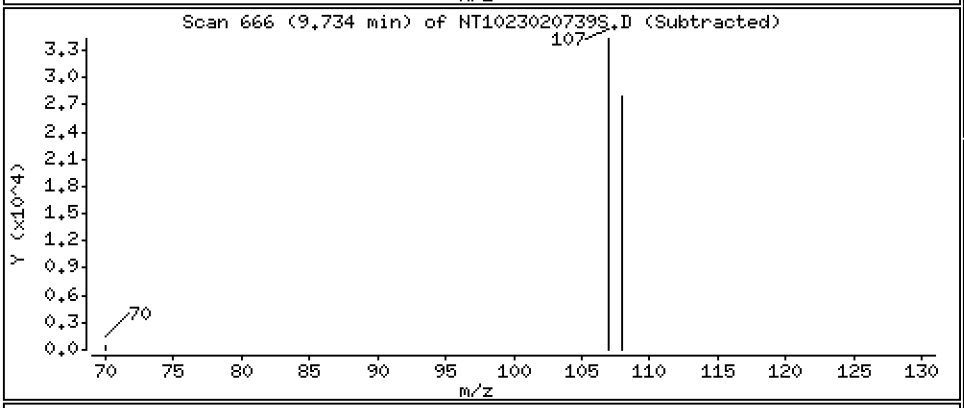
Column diameter: 0.25

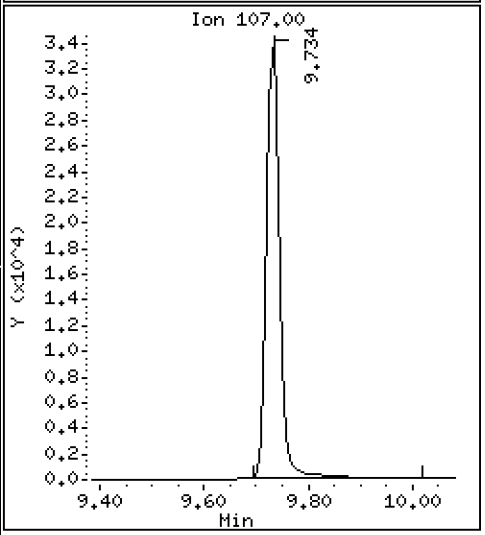
15 4-Methylphenol

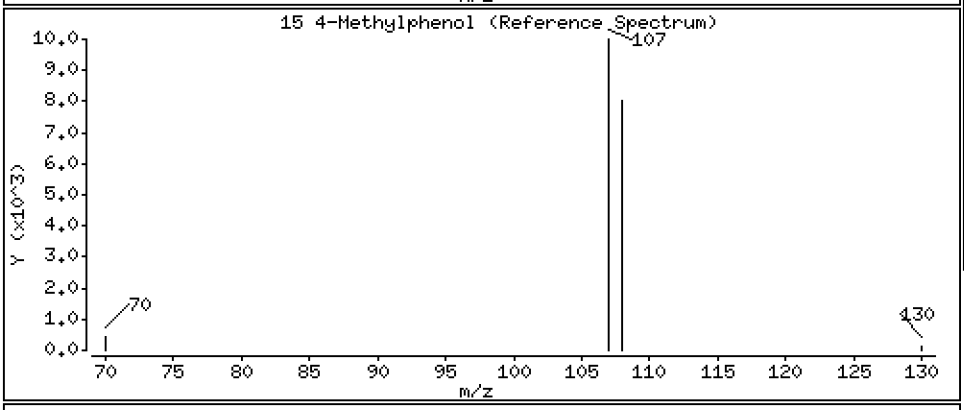
Concentration: 1.268 ug/L

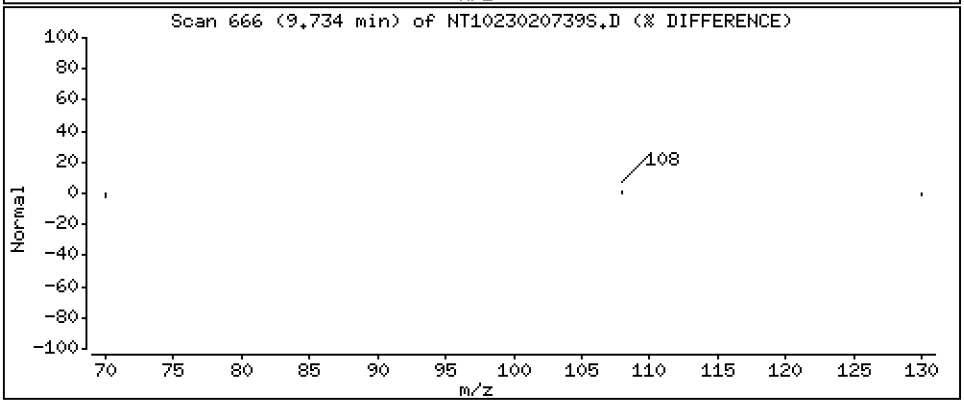












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207395.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

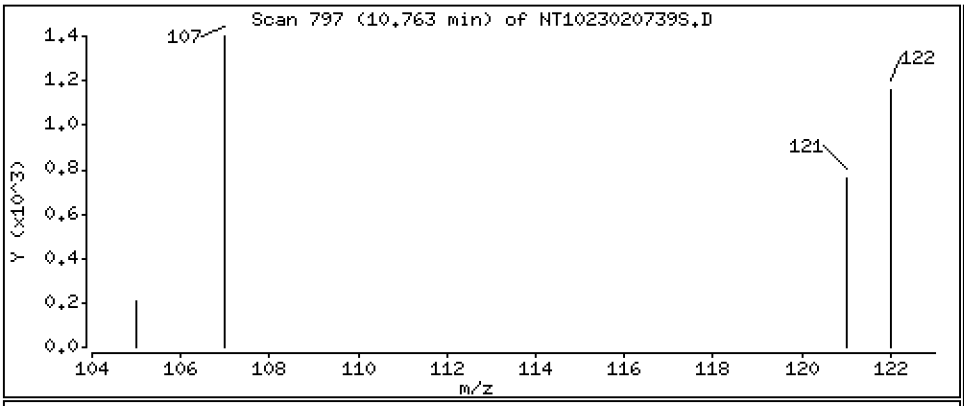
Operator: DSD

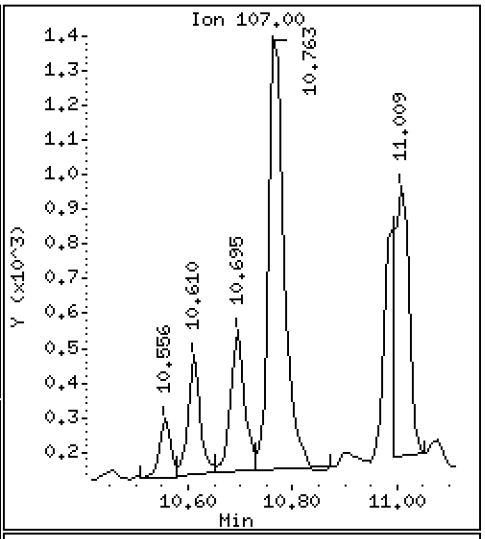
Column phase: ZB-5msi

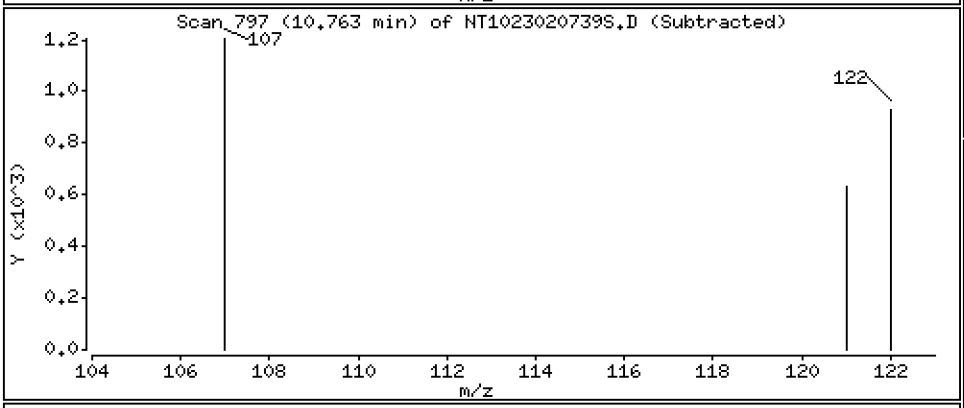
Column diameter: 0.25

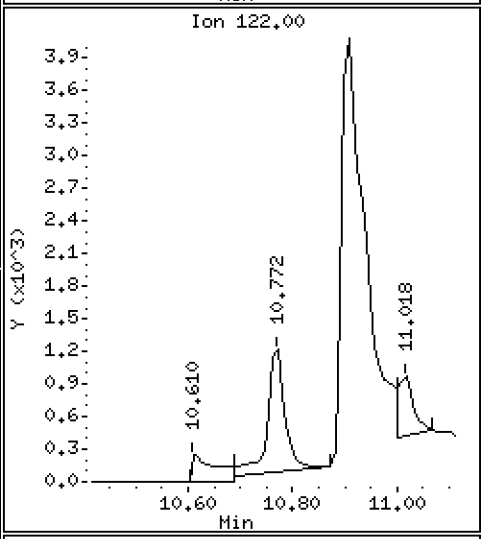
22 2,4-Dimethylphenol

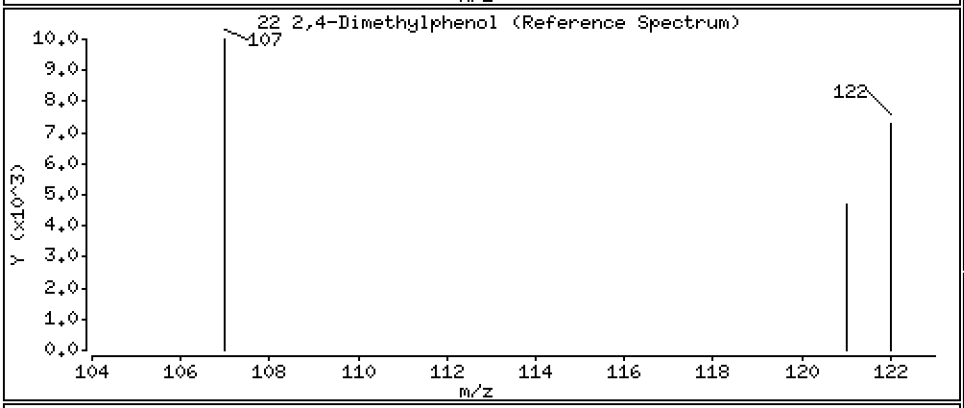
Concentration: 0.06883 ug/L

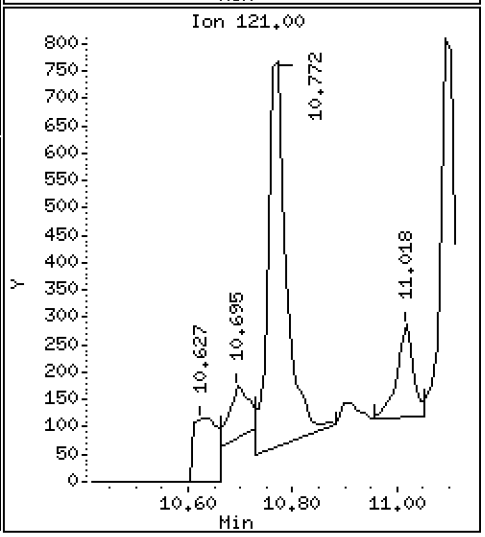


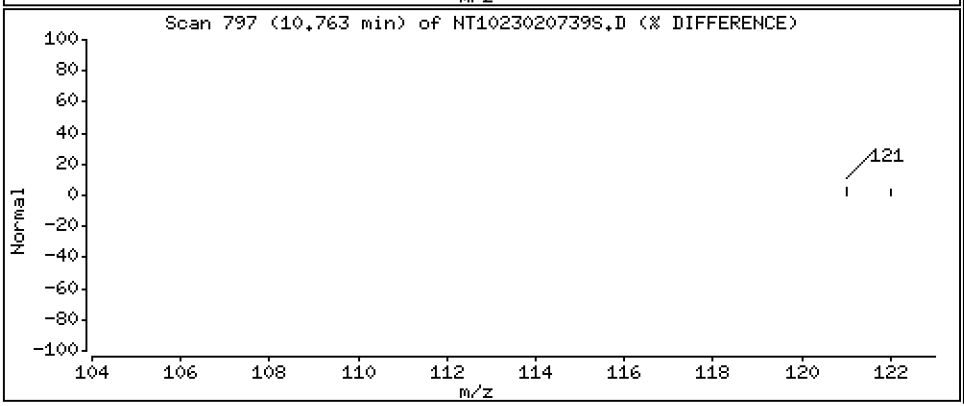












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Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

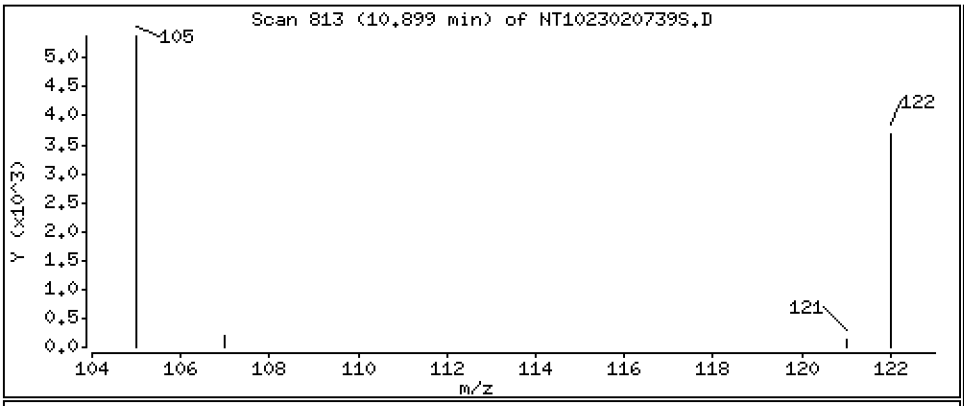
Operator: DSD

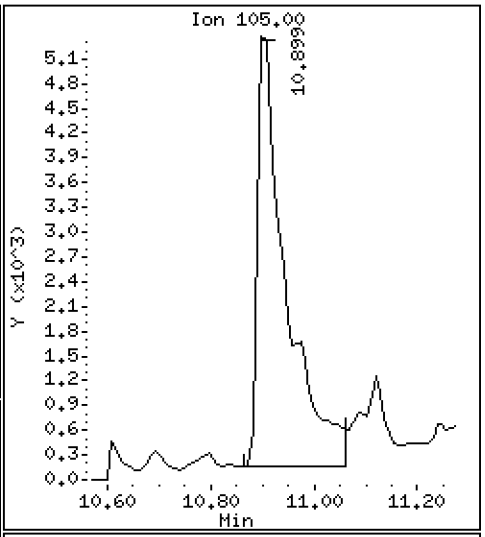
Column phase: ZB-5msi

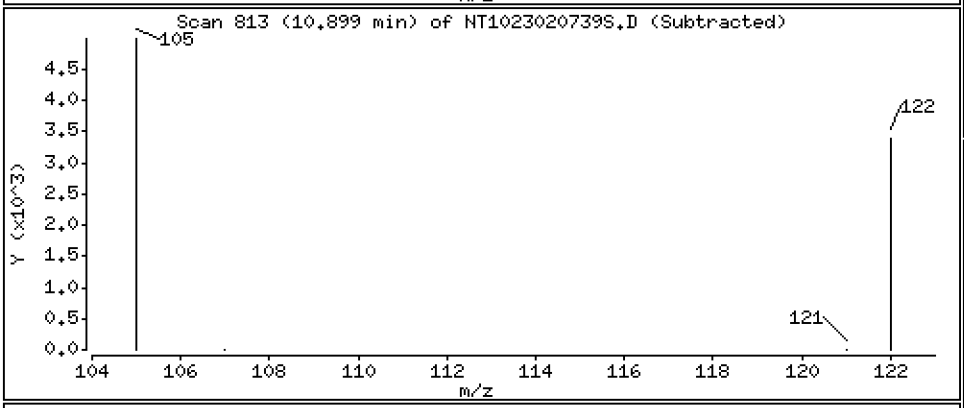
Column diameter: 0.25

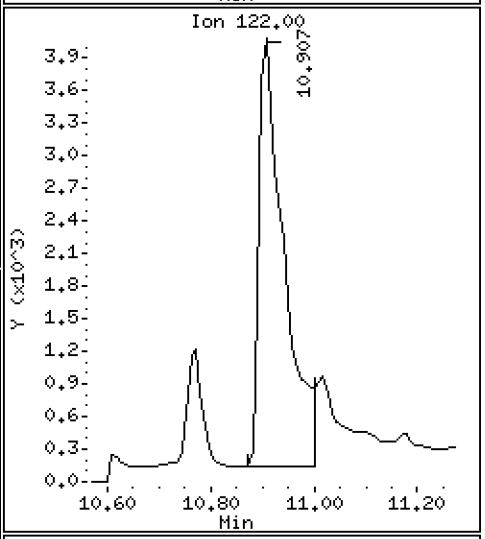
24 Benzoic acid

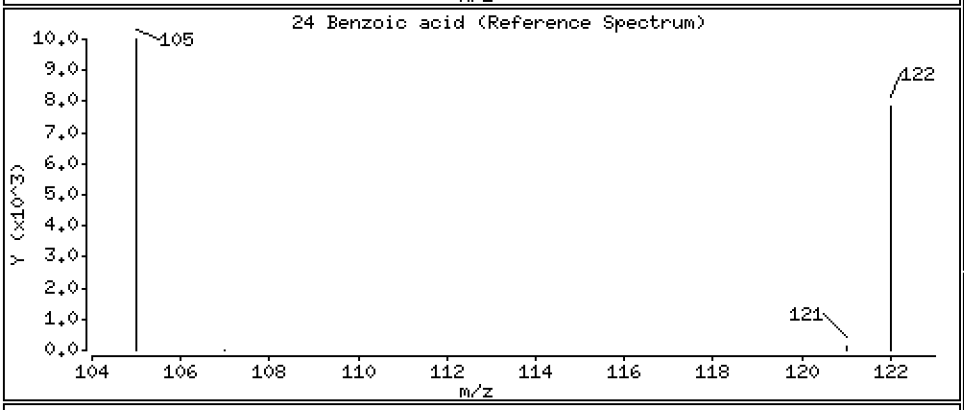
Concentration: 1.160 ug/L

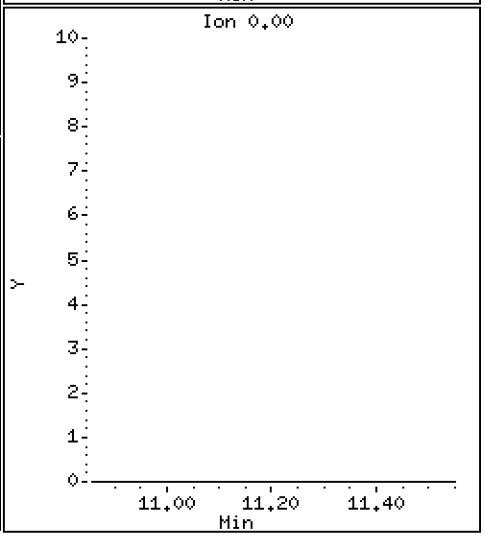


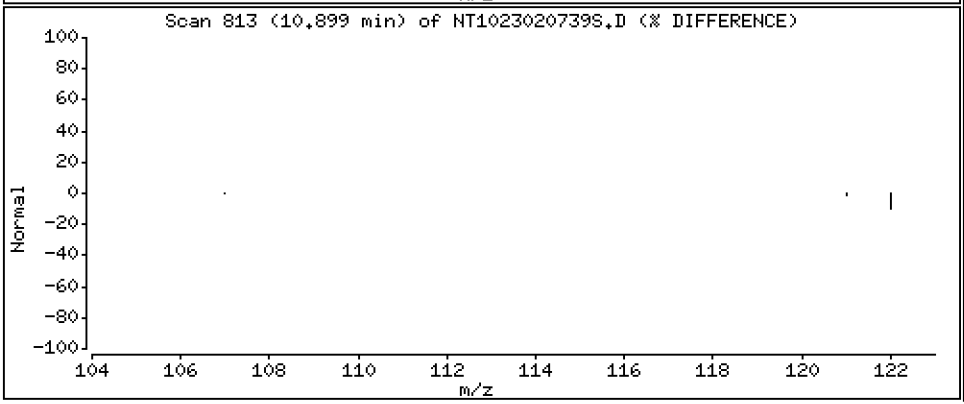












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207395.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

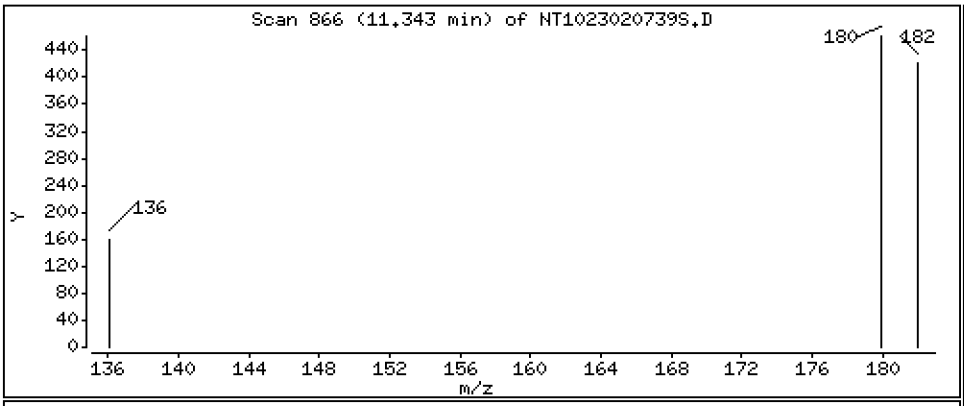
Operator: DSD

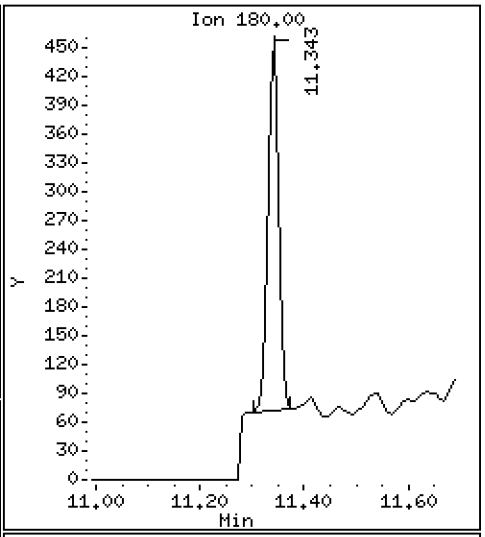
Column phase: ZB-5msi

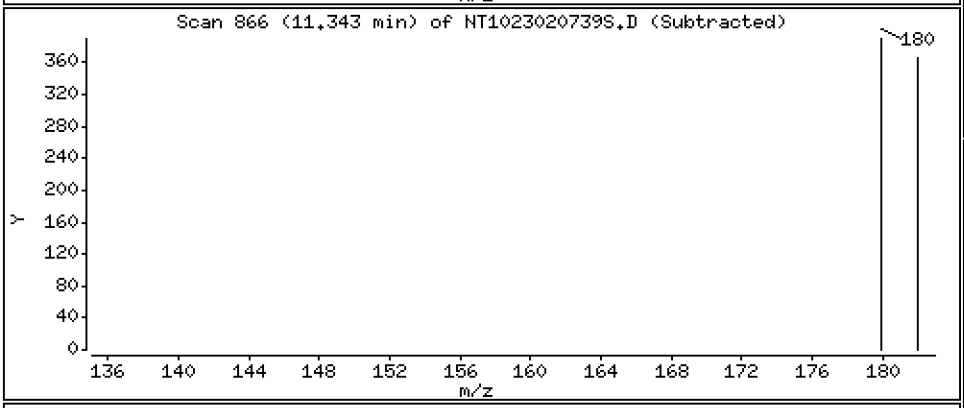
Column diameter: 0.25

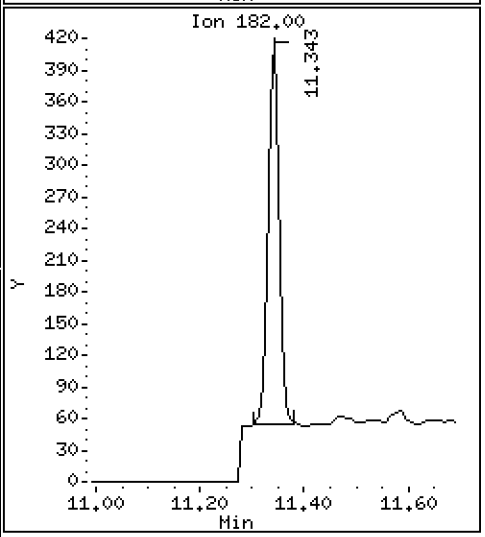
26 1,2,4-Trichlorobenzene

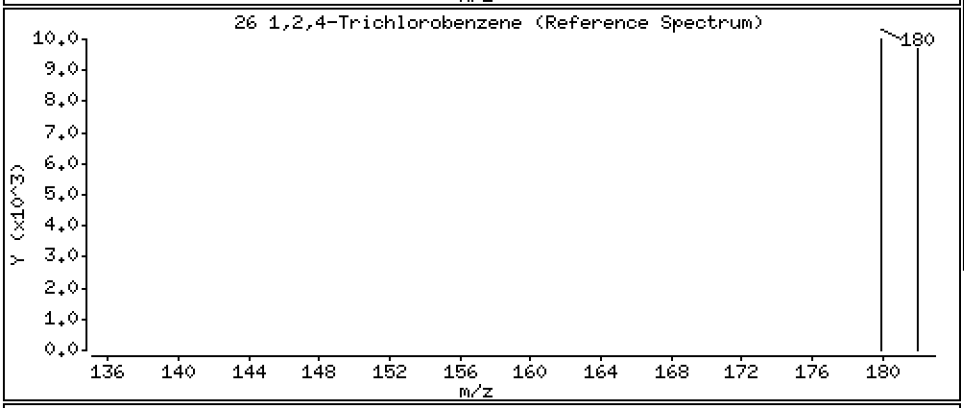
Concentration: 0.01647 ug/L

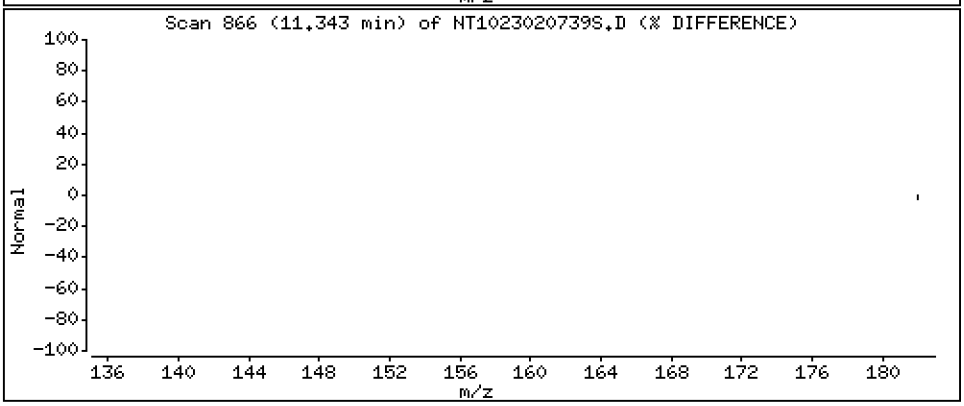












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207395.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

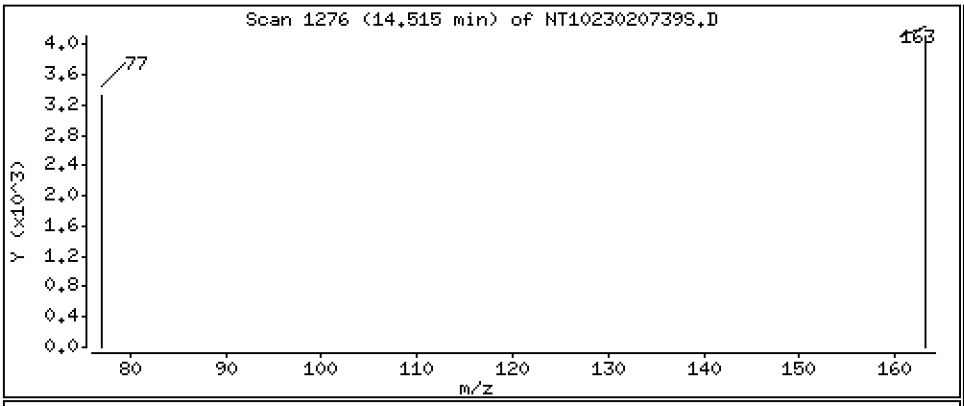
Operator: DSD

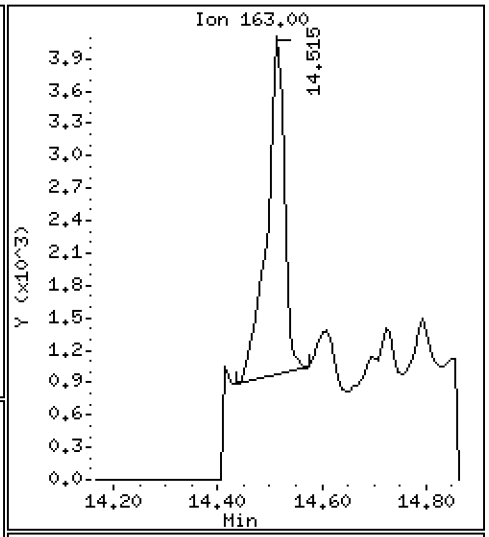
Column phase: ZB-5msi

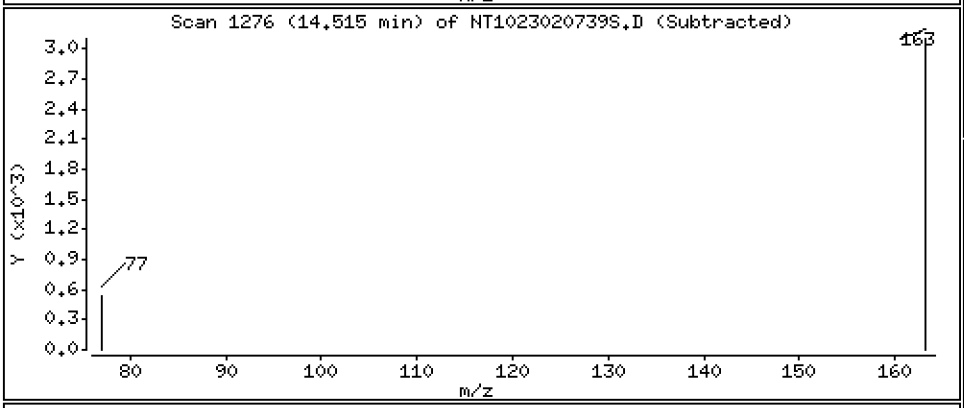
Column diameter: 0.25

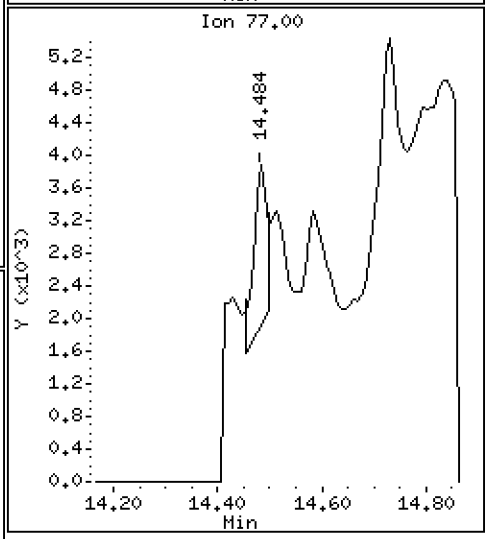
39 Dimethylphthalate

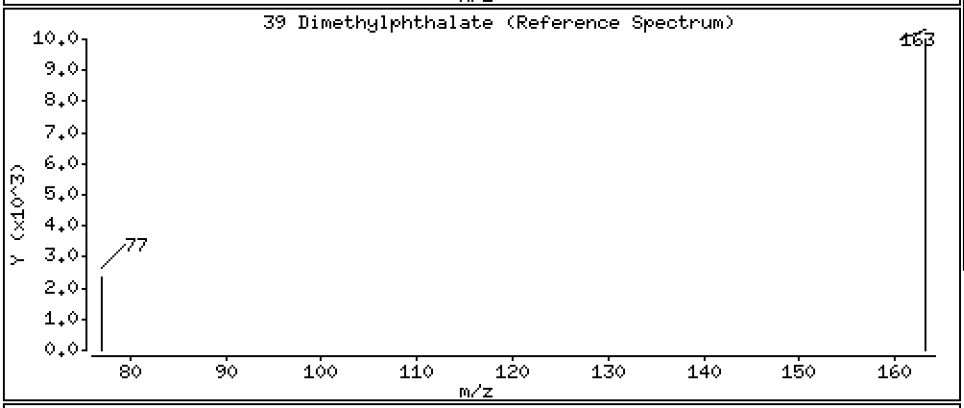
Concentration: 0.1467 ug/L

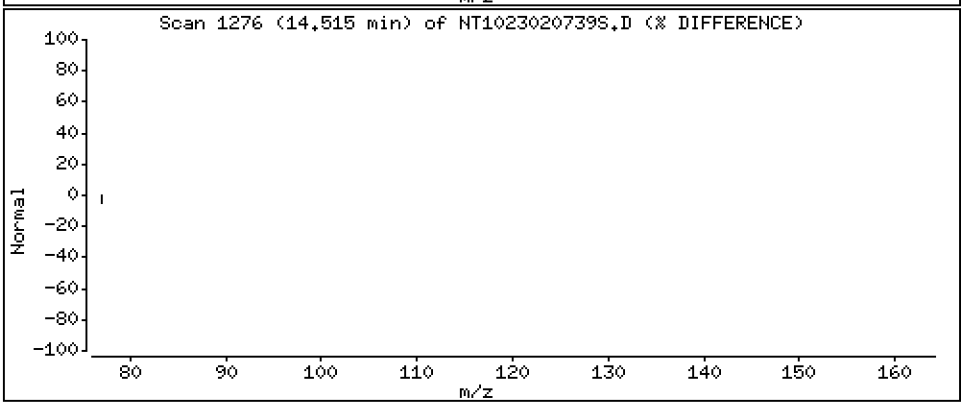












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207395.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

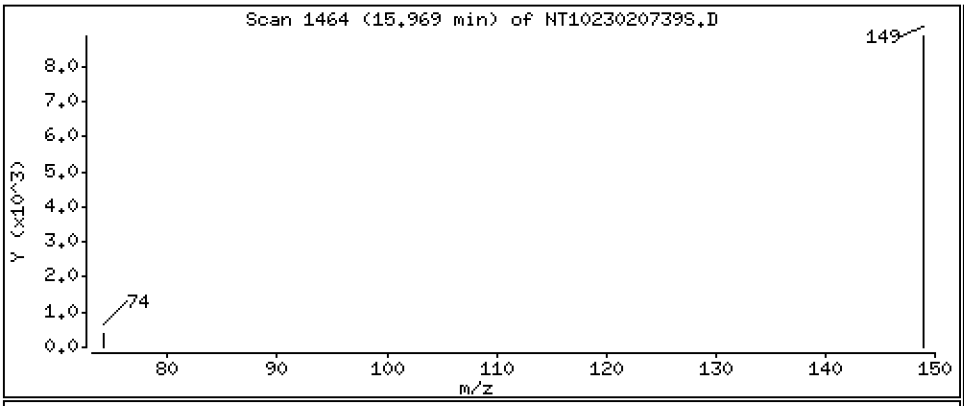
Operator: DSD

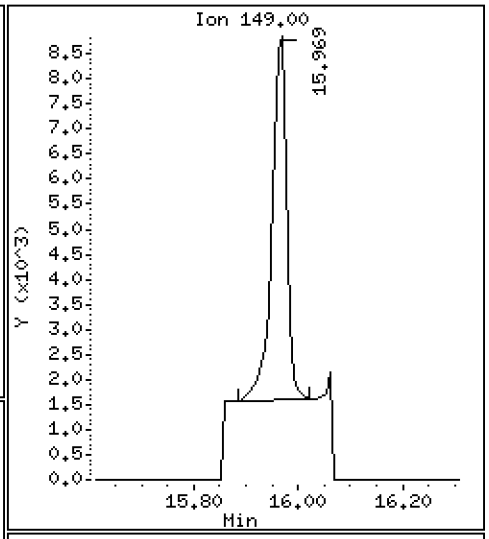
Column phase: ZB-5msi

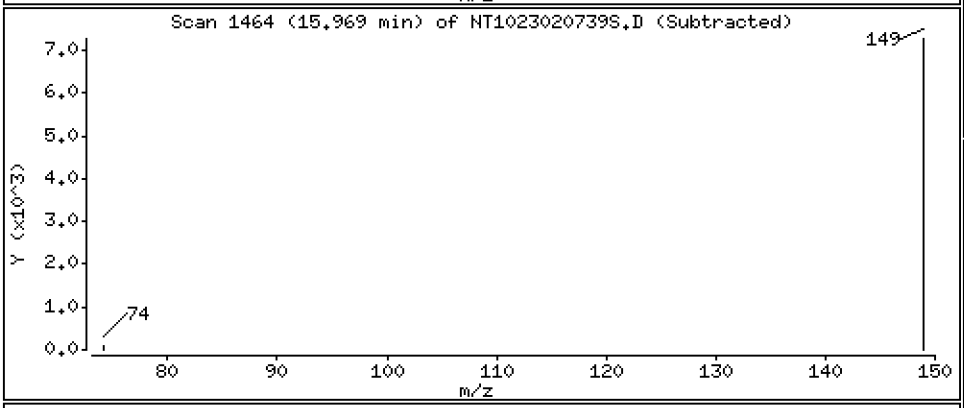
Column diameter: 0.25

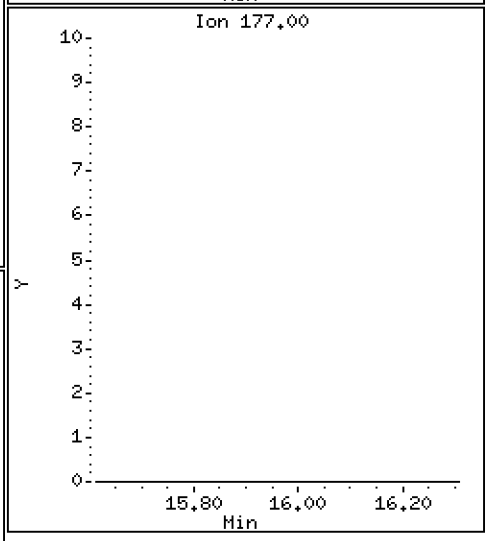
50 Diethylphthalate

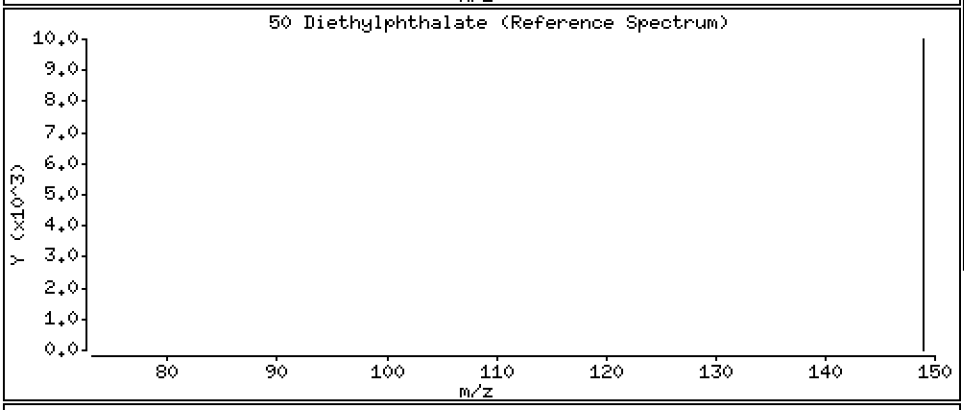
Concentration: 0.1948 ug/L

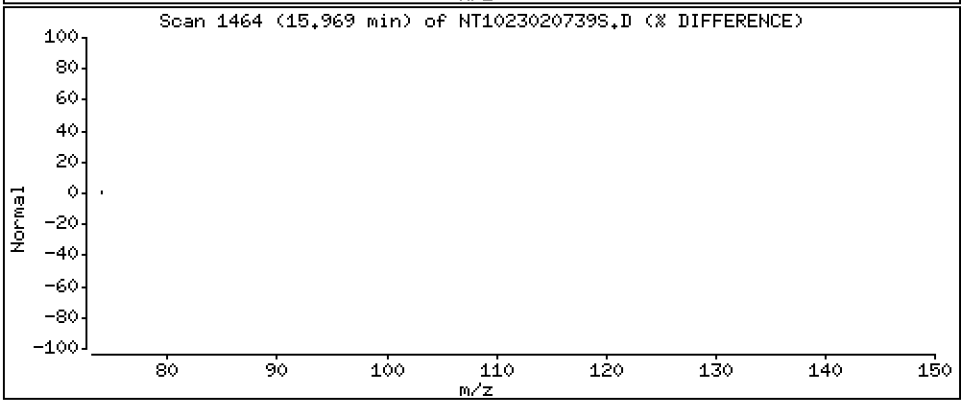












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Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

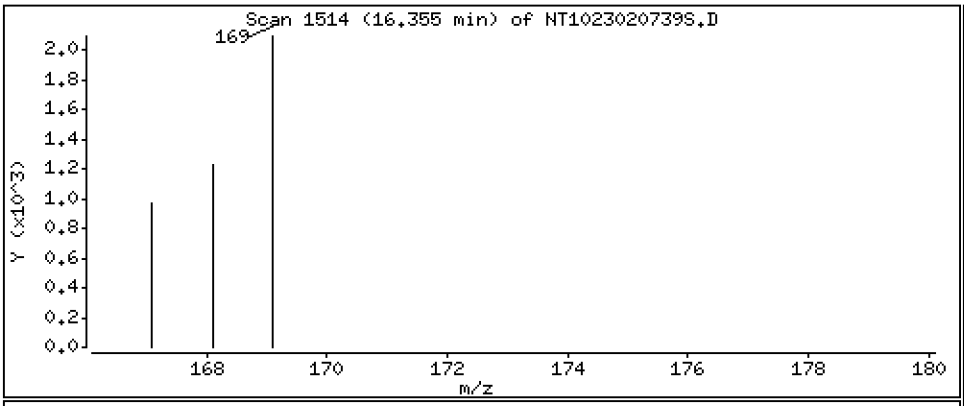
Operator: DSD

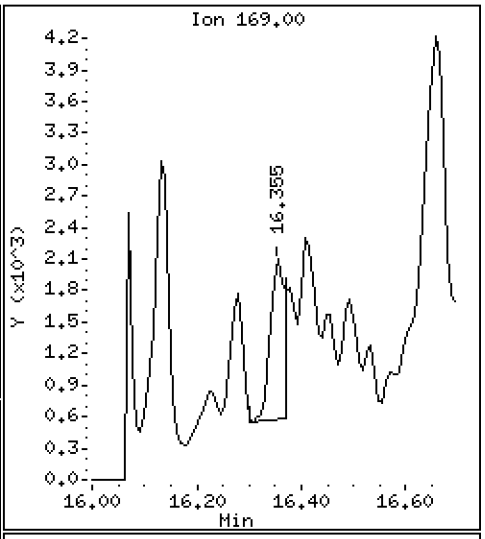
Column phase: ZB-5msi

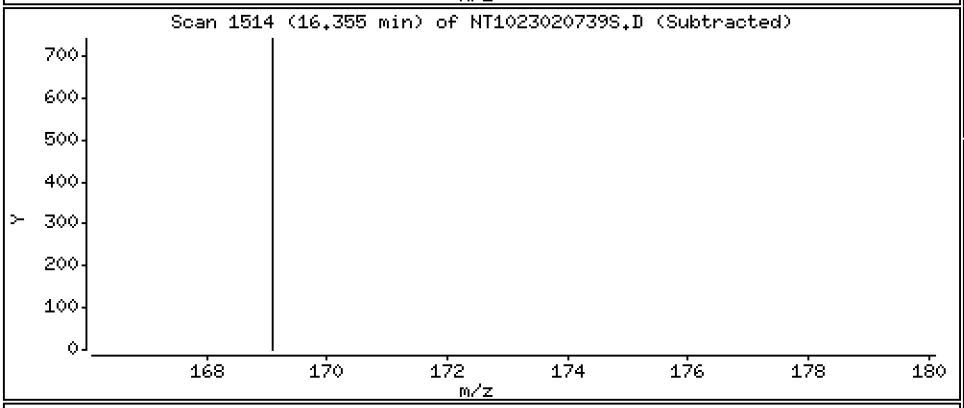
Column diameter: 0.25

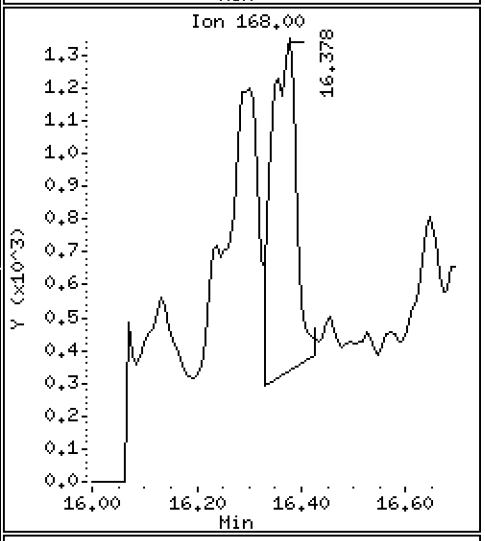
54 N-Nitrosodiphenylamine

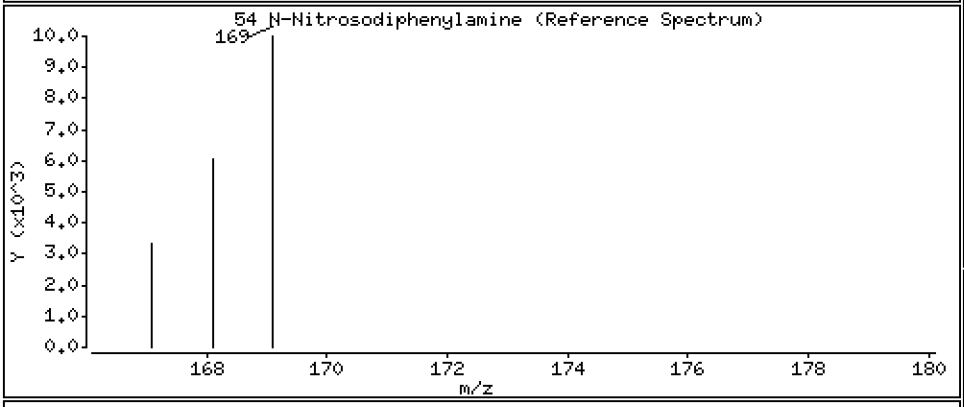
Concentration: 0.04901 ug/L

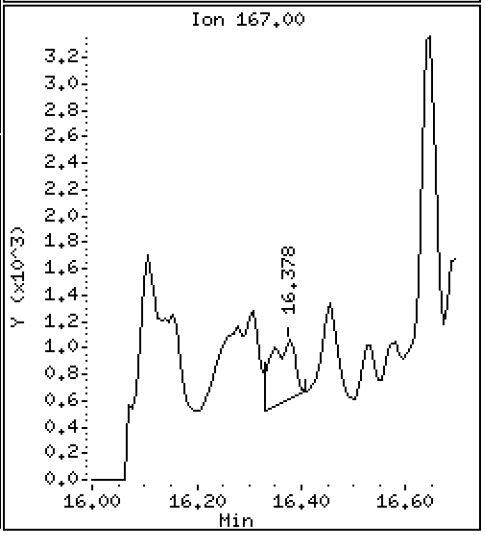


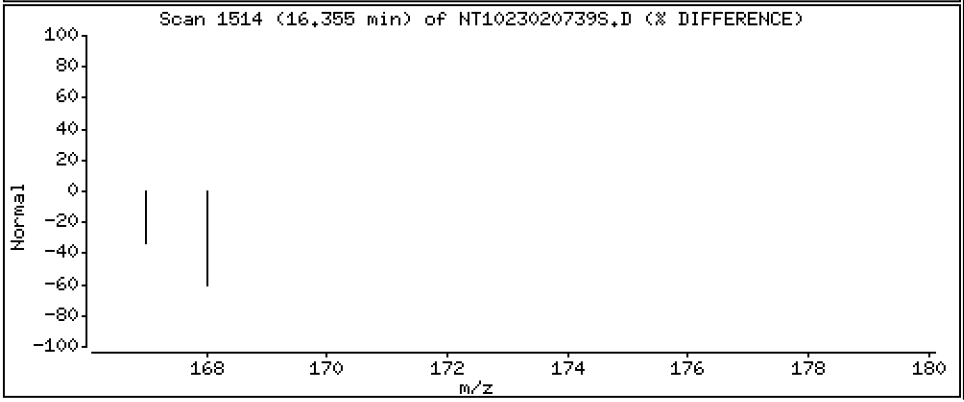












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207395.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

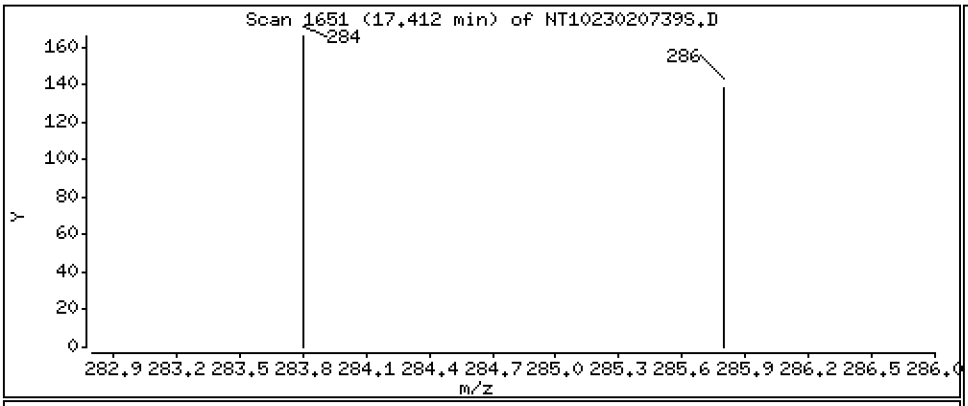
Operator: DSD

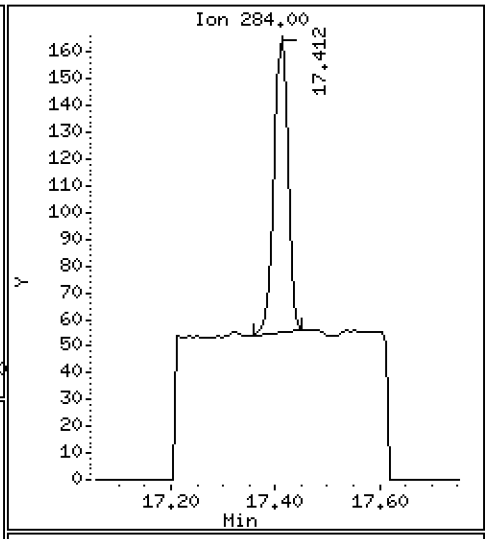
Column phase: ZB-5msi

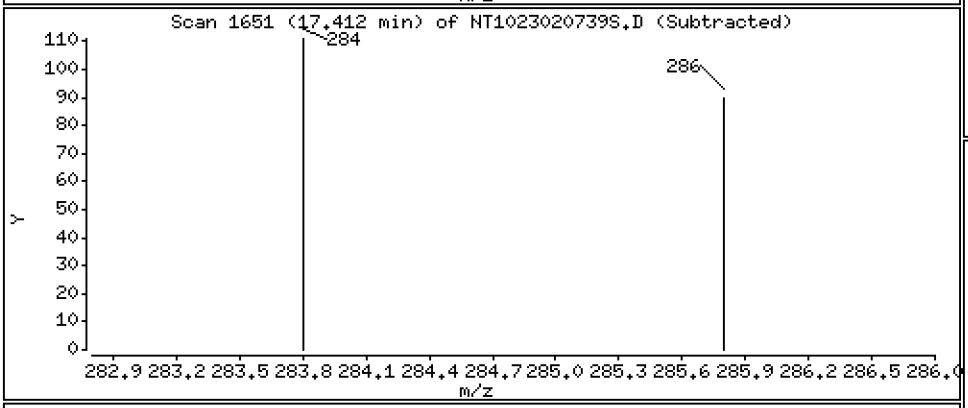
Column diameter: 0.25

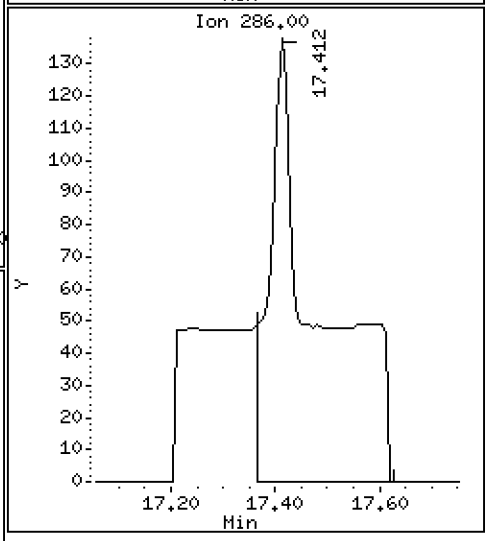
57 Hexachlorobenzene

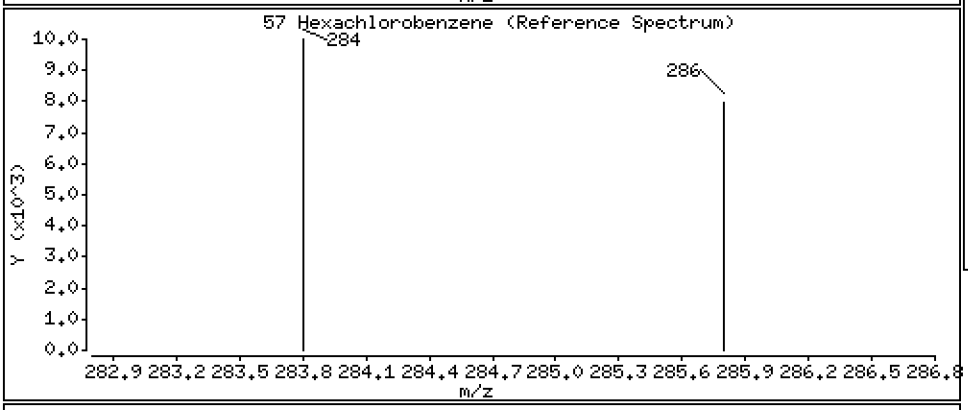
Concentration: 0.007542 ug/L

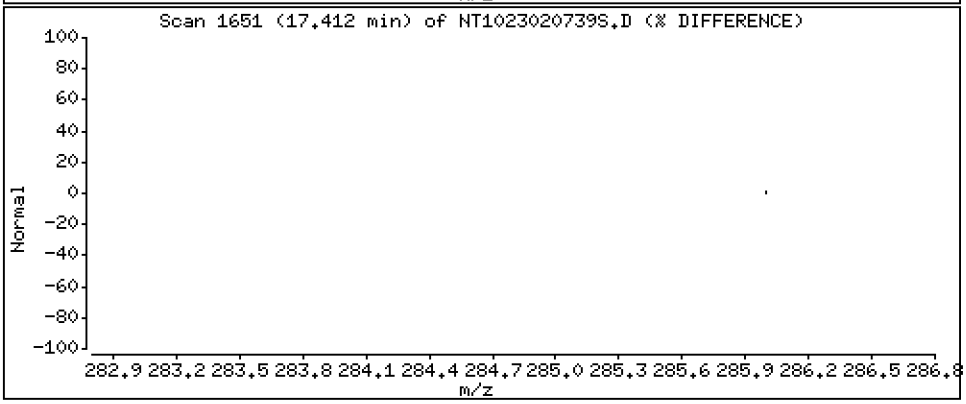












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207395.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

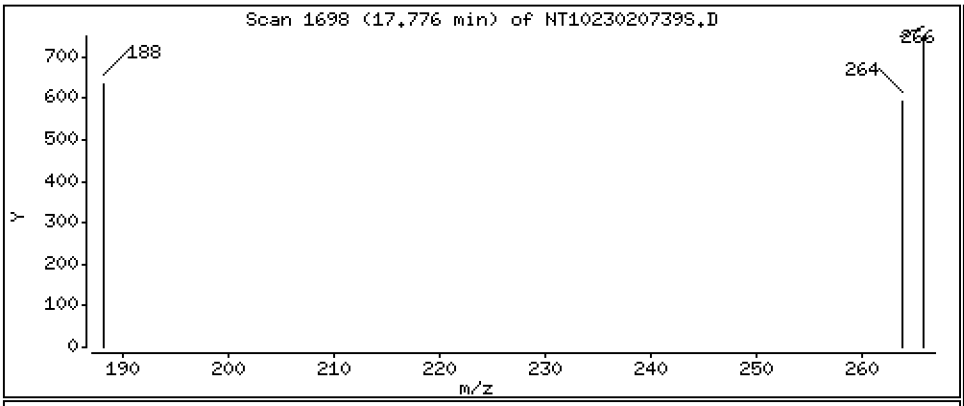
Operator: DSD

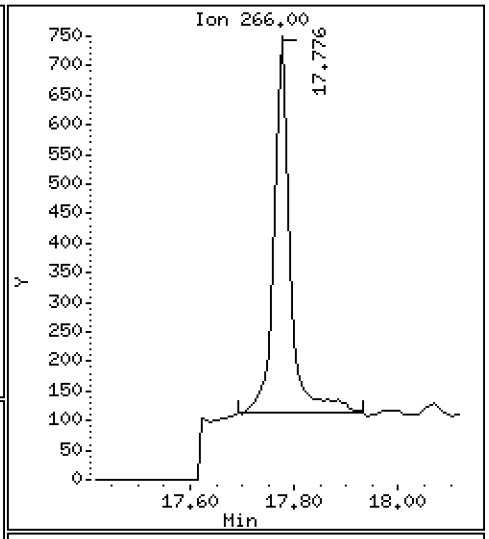
Column phase: ZB-5msi

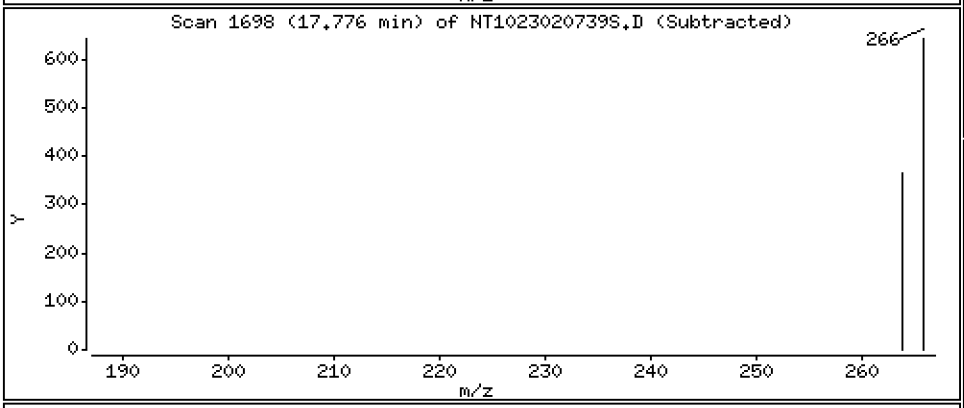
Column diameter: 0.25

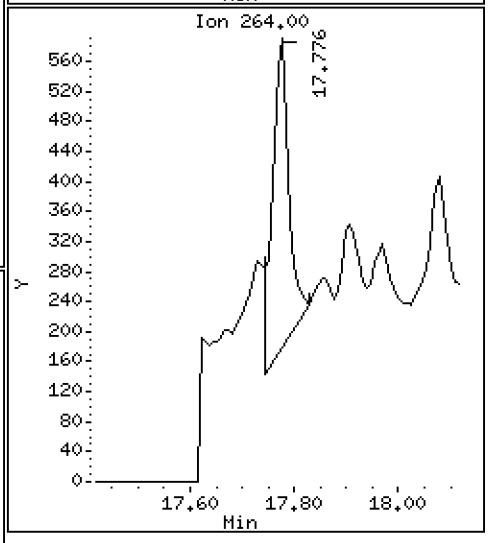
58 Pentachlorophenol

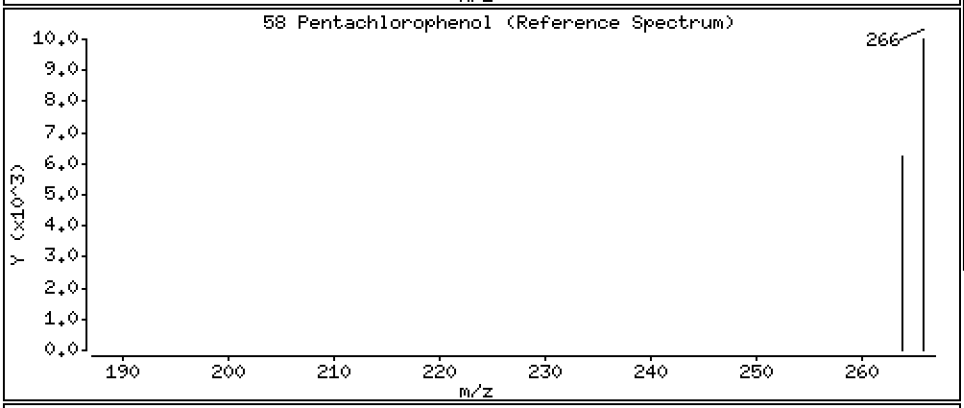
Concentration: 0.1476 ug/L

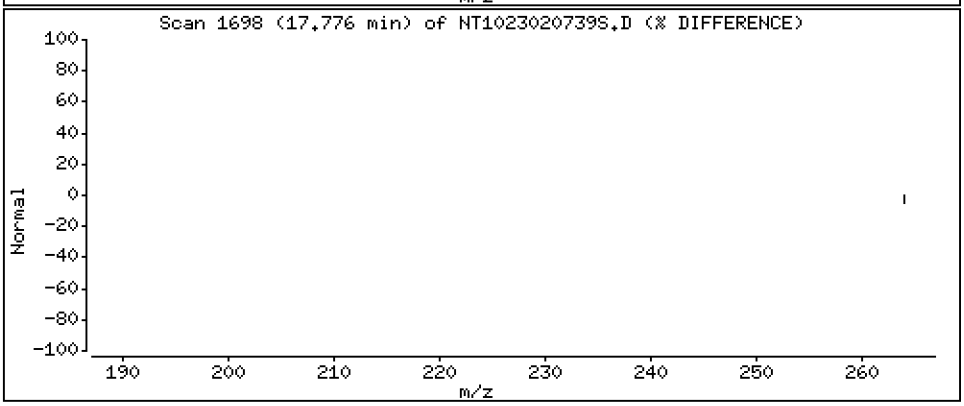












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207395.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

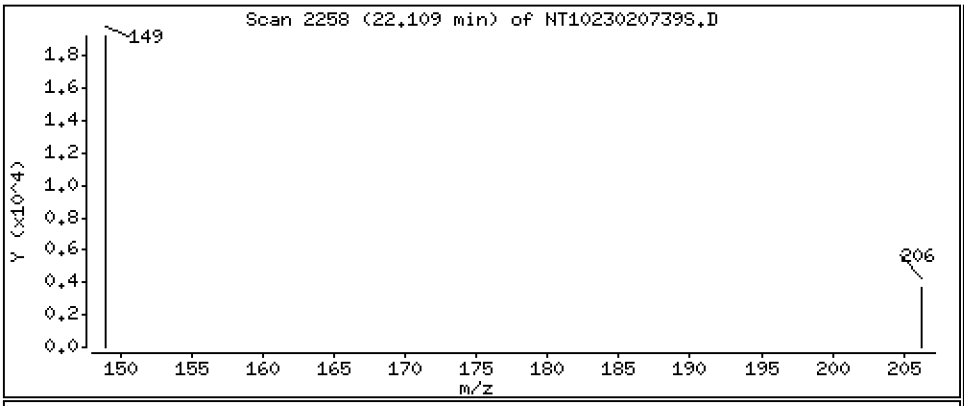
Operator: DSD

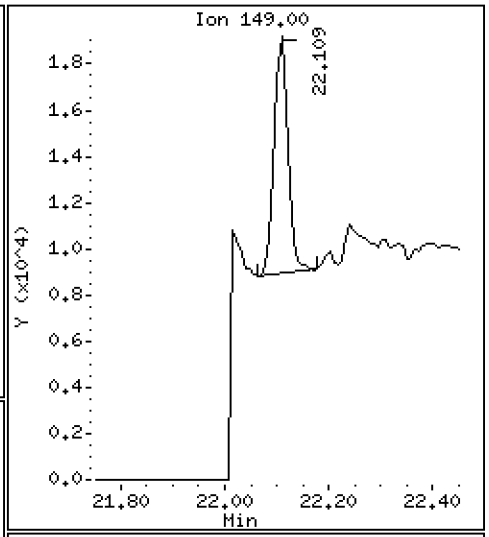
Column phase: ZB-5msi

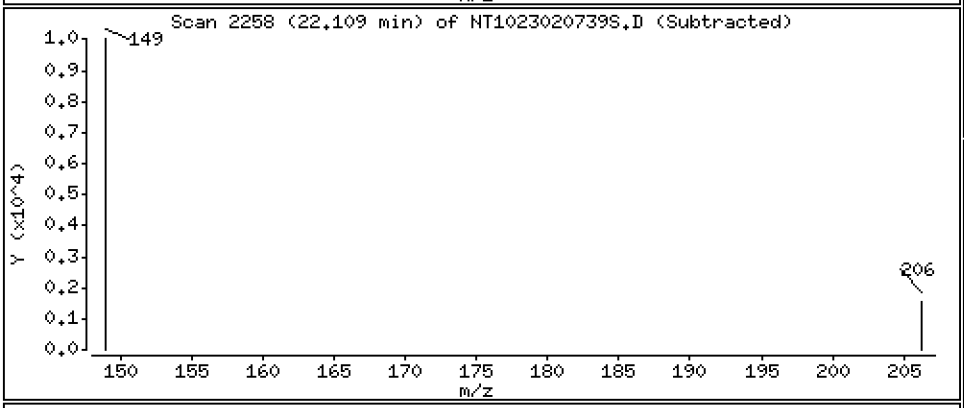
Column diameter: 0.25

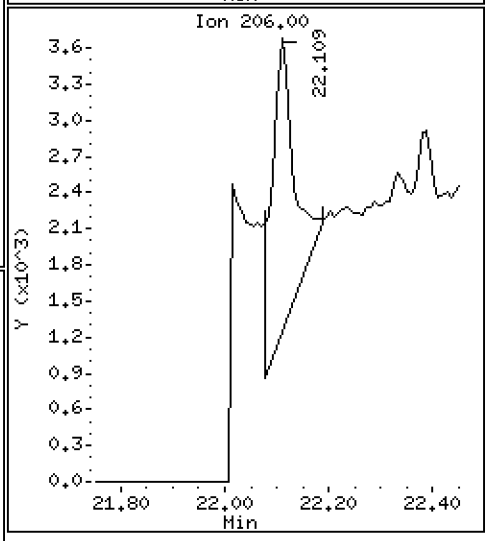
67 Butylbenzylphthalate

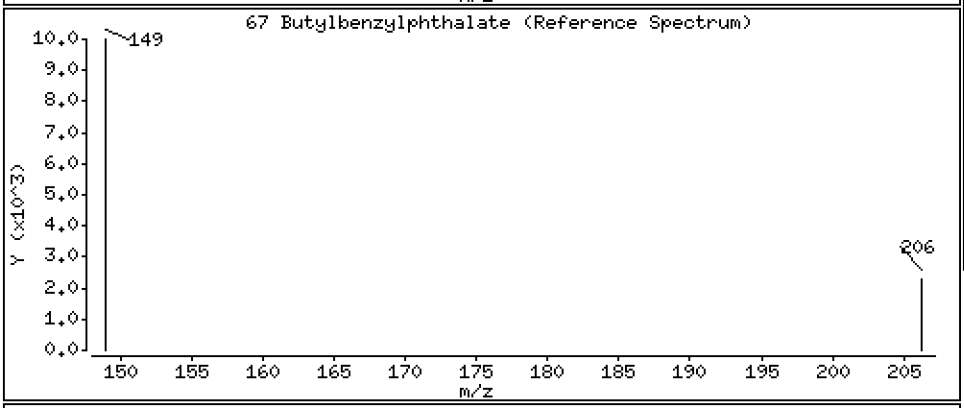
Concentration: 0.4171 ug/L

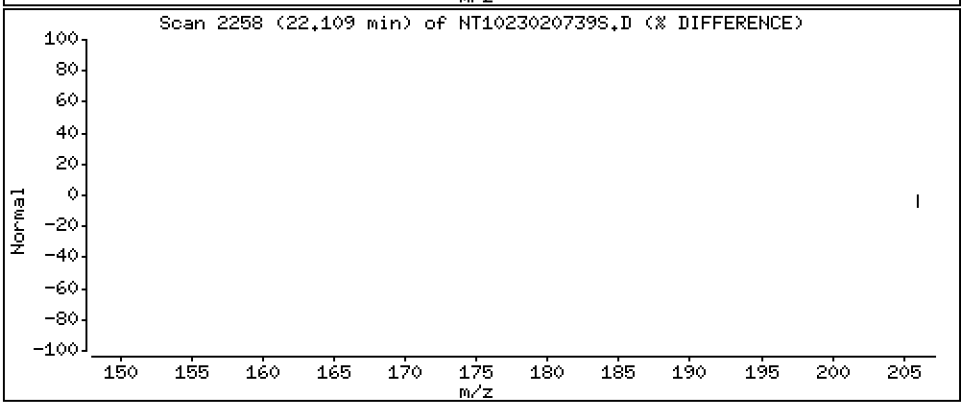












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207395.D

Date : 08-FEB-2023 11:51

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-01

Volume Injected (uL): 1.0

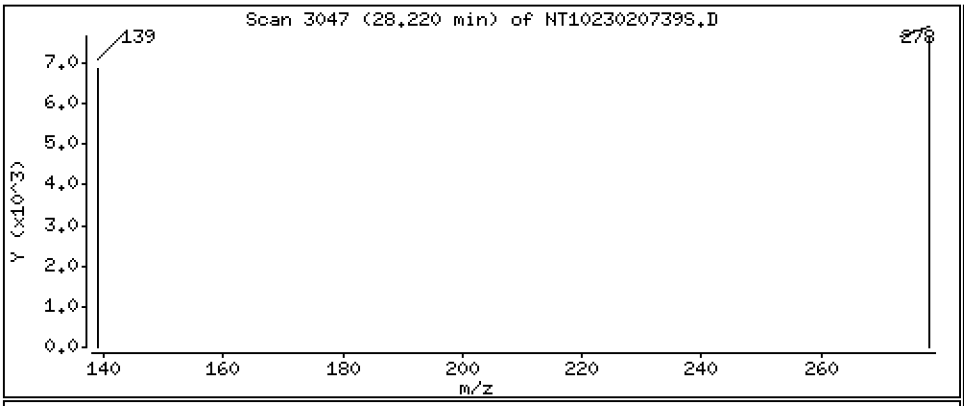
Operator: DSD

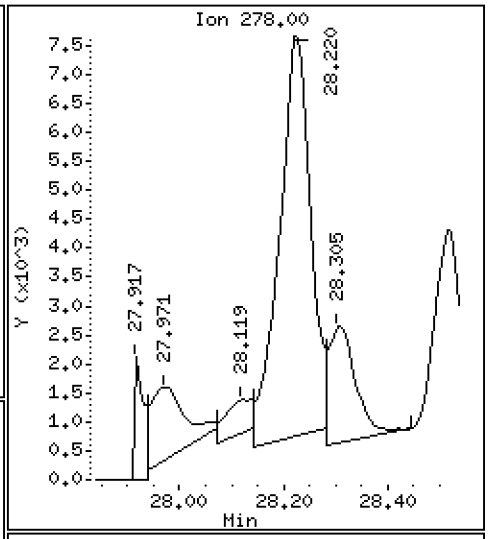
Column phase: ZB-5msi

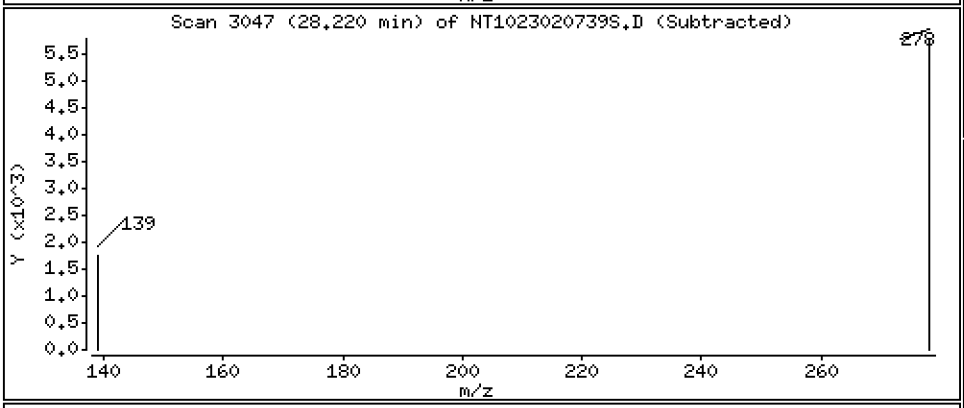
Column diameter: 0.25

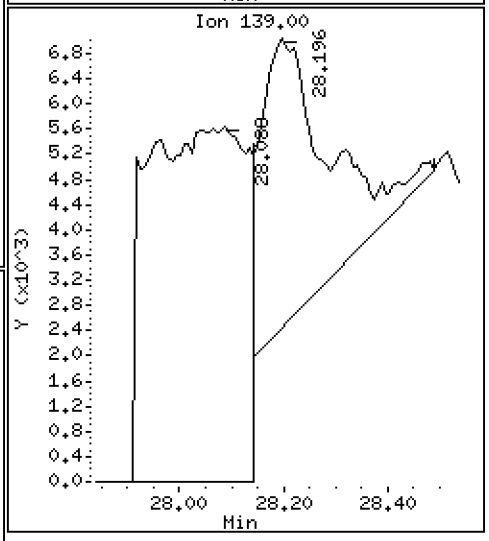
79 Dibenzo(a,h)anthracene

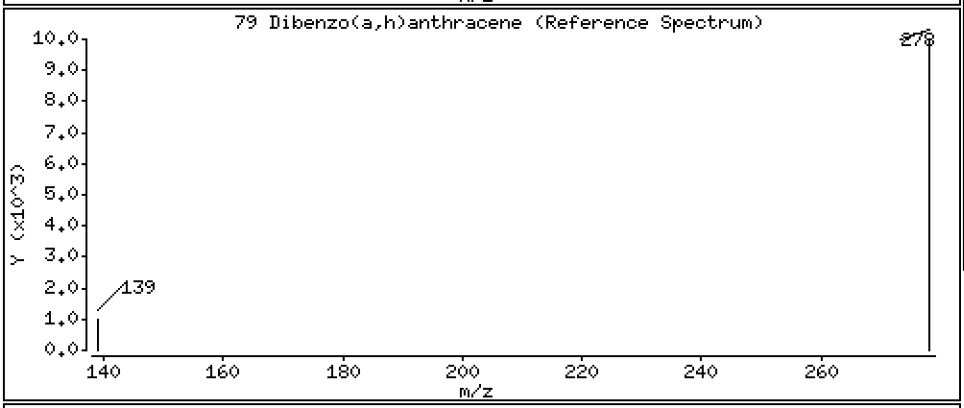
Concentration: 0.3664 ug/L

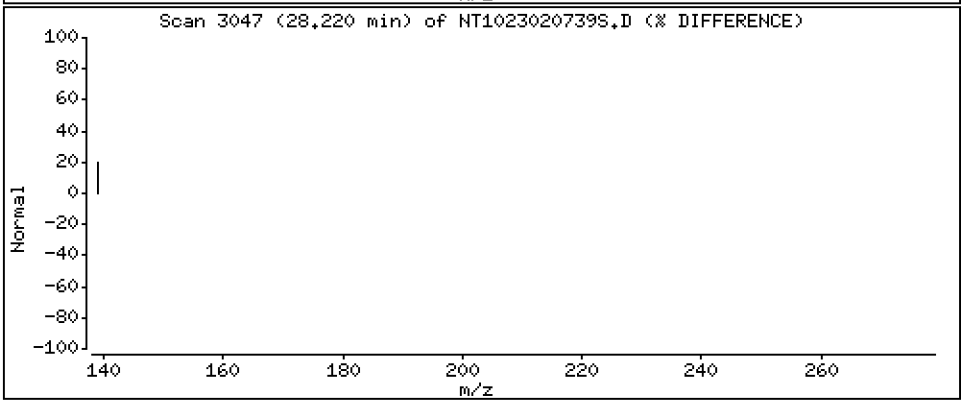












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020739S.D
Lab Smp Id: 22L0459-01
Inj Date : 08-FEB-2023 11:51 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : 22L0459-01
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.785	6.777	(0.757)	164235	4.86706	4.867(R)
3	Phenol	94	8.369	8.369	(0.934)	11915	0.23417	0.2342
7	1,3-Dichlorobenzene	146	8.903	8.902	(0.993)	539	0.01176	0.01176
* 8	1,4-Dichlorobenzene-d4	152	8.965	8.972	(1.000)	110965	4.00000	
9	1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	2967	0.06623	0.06623(M)
11	Benzyl alcohol	79	9.244	9.236	(1.031)	12618	0.50834	0.5083
12	1,2-Dichlorobenzene	146	9.345	9.353	(1.042)	1117	0.02555	0.02555
13	2-Methylphenol	108	9.469	9.461	(1.056)	1219	0.03509	0.03509(M)
15	4-Methylphenol	108	9.733	9.733	(1.086)	44935	1.26828	1.268
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.763	10.763	(0.942)	2568	0.06883	0.06883
24	Benzoic acid	105	10.898	10.924	(0.954)	20113	1.15987	1.160
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	576	0.01647	0.01647(M)
* 27	Naphthalene-d8	136	11.427	11.427	(1.000)	424736	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	14.514	14.514	(0.967)	6976	0.14667	0.1467(M)
* 42	Acenaphthene-d10	162	15.009	15.009	(1.000)	204070	4.00000	
50	Diethylphthalate	149	15.968	15.960	(1.064)	13953	0.19479	0.1948(M)
54	N-Nitrosodiphenylamine	169	16.354	16.346	(0.907)	2993	0.04901	0.04901(M)
57	Hexachlorobenzene	284	17.411	17.404	(0.966)	196	0.00754	0.007542(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.775	17.768	(0.986)	1335	0.14755	0.1476(M)
*	59 Phenanthrene-d10	188	18.031	18.023	(1.000)	369495	4.00000	
$	66 Terphenyl-d14	244	21.187	21.164	(0.918)	290712	4.60401	4.604(R)
	67 Butylbenzylphthalate	149	22.109	22.101	(0.957)	17802	0.41709	0.4171(M)
*	69 Chrysene-d12	240	23.092	23.069	(1.000)	284476	4.00000	
*	77 Perylene-d12	264	25.662	25.631	(1.000)	290541	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.219	28.188	(1.100)	29837	0.36643	0.3664
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020739S.D
Lab Smp Id: 22L0459-01
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	110965	-10.22
27 Naphthalene-d8	454738	227369	909476	424736	-6.60
42 Acenaphthene-d10	223117	111559	446234	204070	-8.54
59 Phenanthrene-d10	408770	204385	817540	369495	-9.61
69 Chrysene-d12	339328	169664	678656	284476	-16.16
77 Perylene-d12	382671	191336	765342	290541	-24.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	-0.09
27 Naphthalene-d8	11.43	10.93	11.93	11.43	0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.01	0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.03	0.04
69 Chrysene-d12	23.07	22.57	23.57	23.09	0.10
77 Perylene-d12	25.63	25.13	26.13	25.66	0.12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020739S.D

Lab ID: 22L0459-01
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 11:51

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

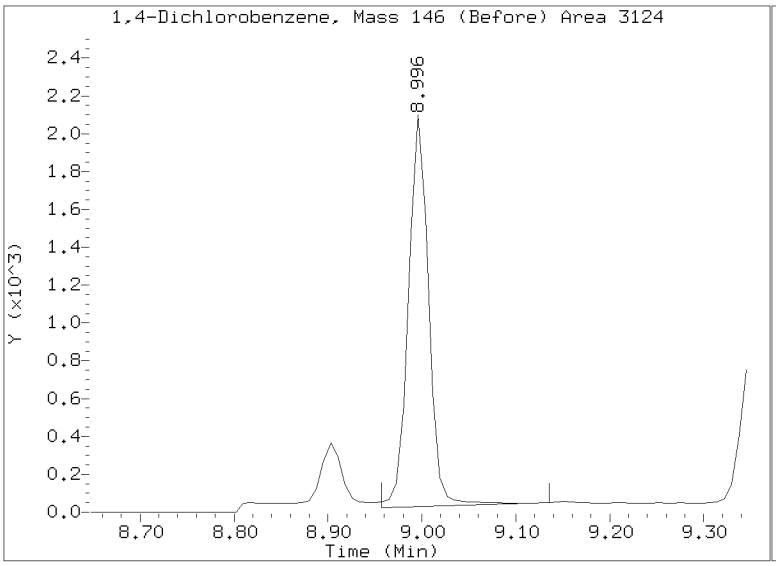
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

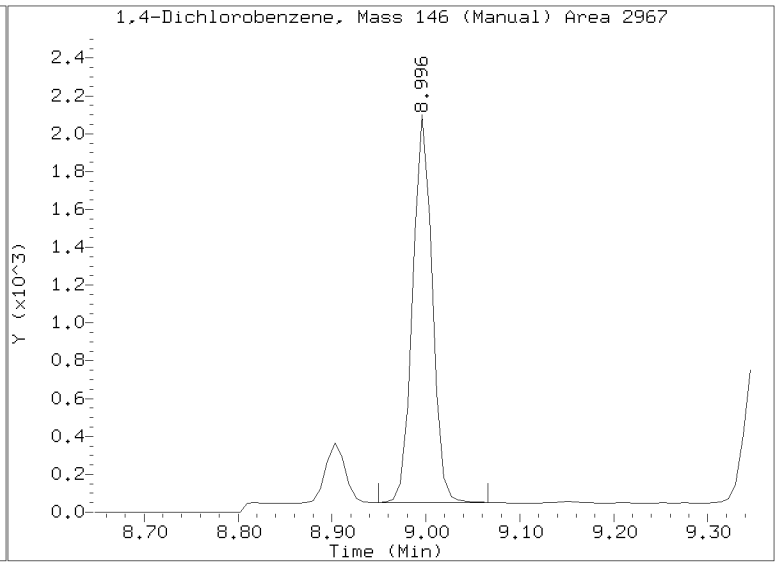
Exception: 1,2,4-Trichlorobenzene 0.0010

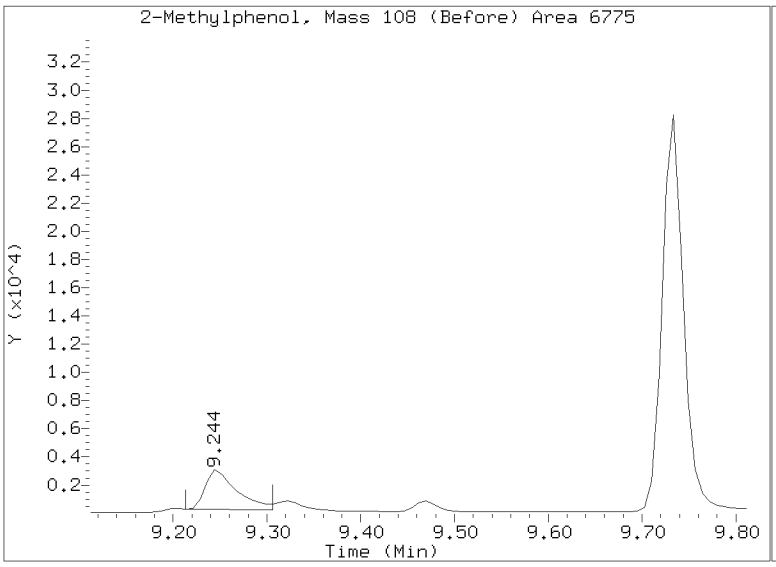
* Only compounds listed in the work order have been verified by the analyst *

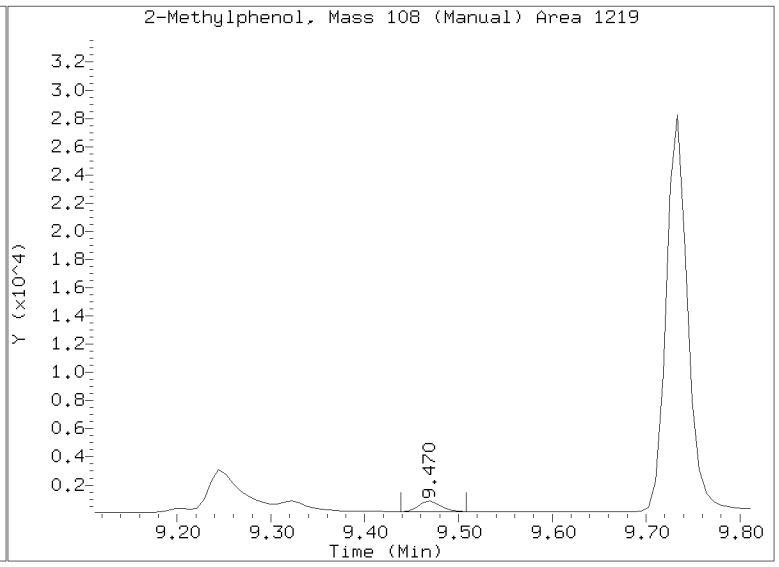
Quant Ion Manual Peak Adjustment Report

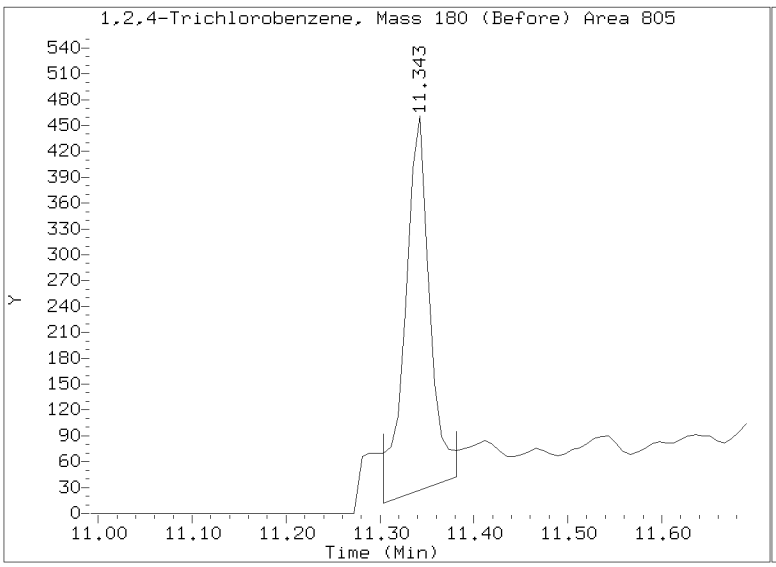
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020739S.D
Injection Date: 08-FEB-2023 11:51
Lab ID:22L0459-01 Client ID:
Report Date: 02/09/2023 14:59

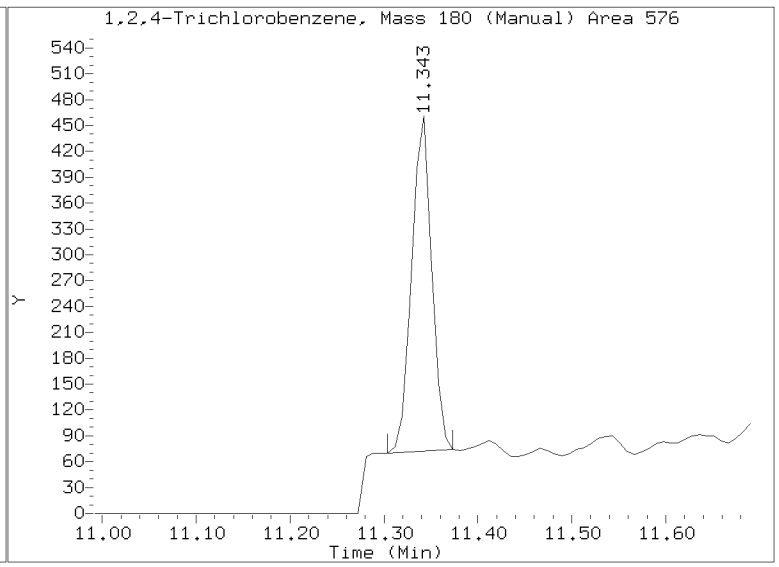












Quant Ion Manual Peak Adjustment Report

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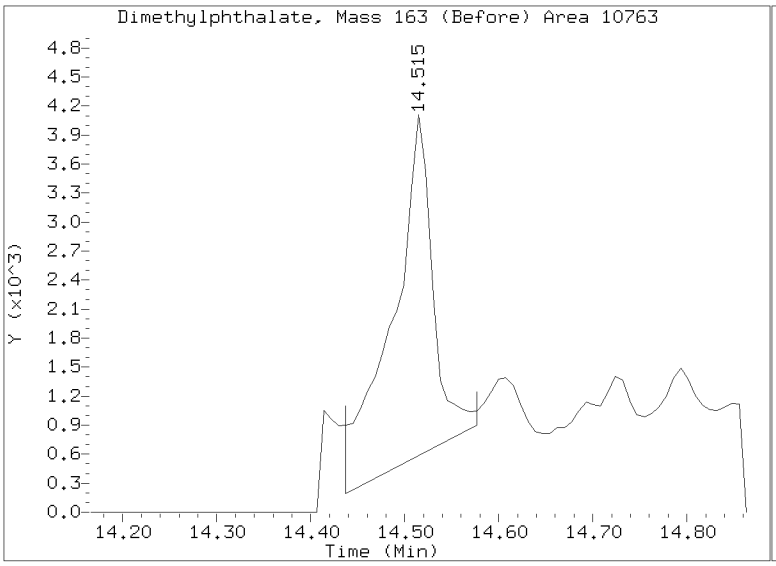
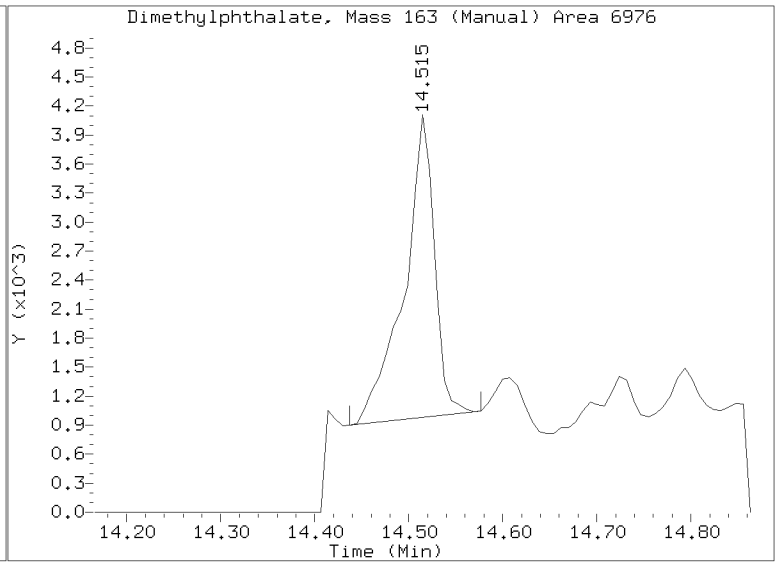
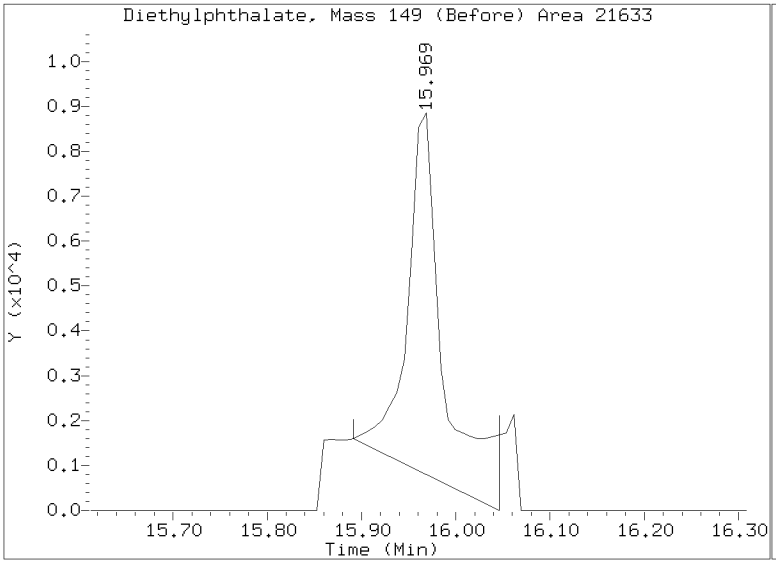
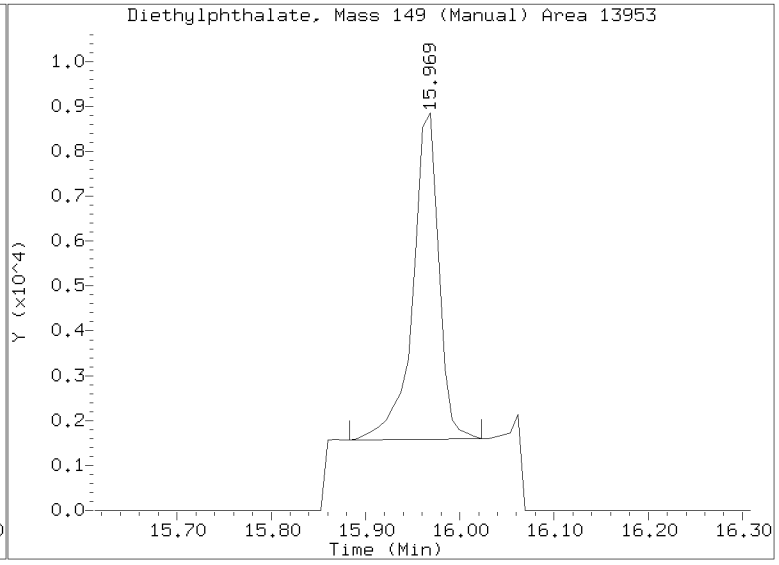
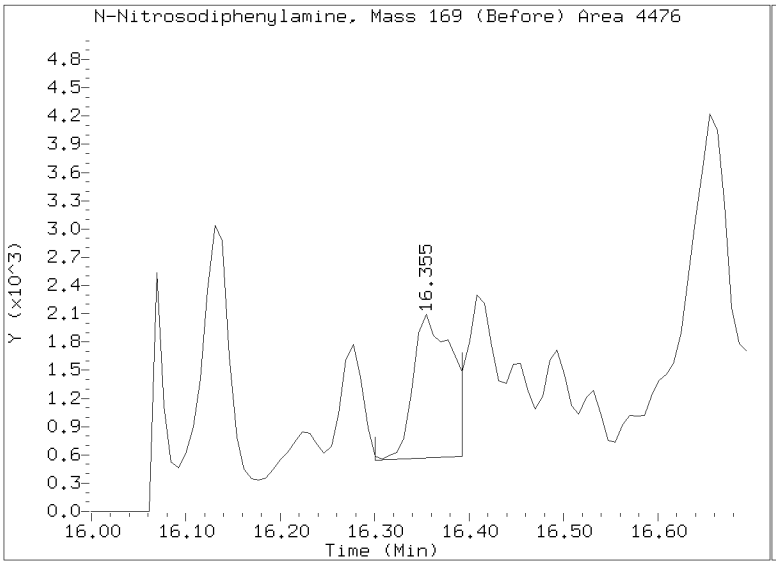
Injection Date: 08-FEB-2023 11:51
Lab ID:22L0459-01 Client ID:
Report Date: 02/09/2023 14:59

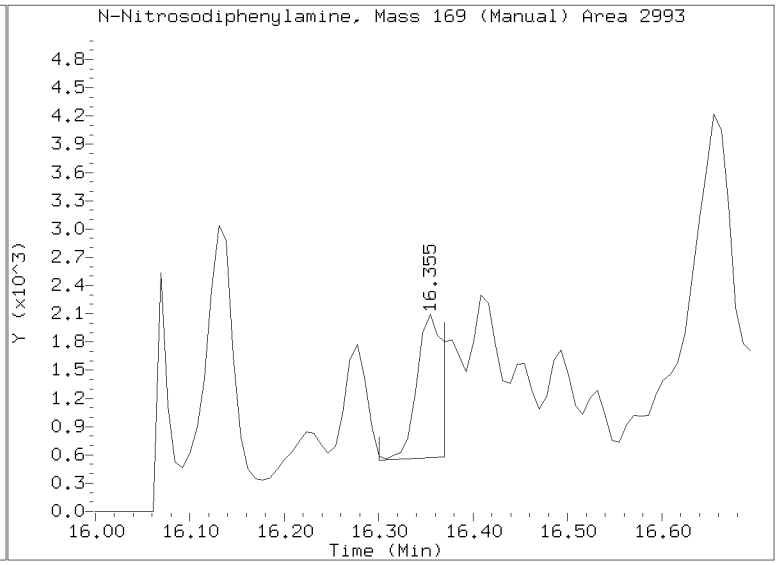






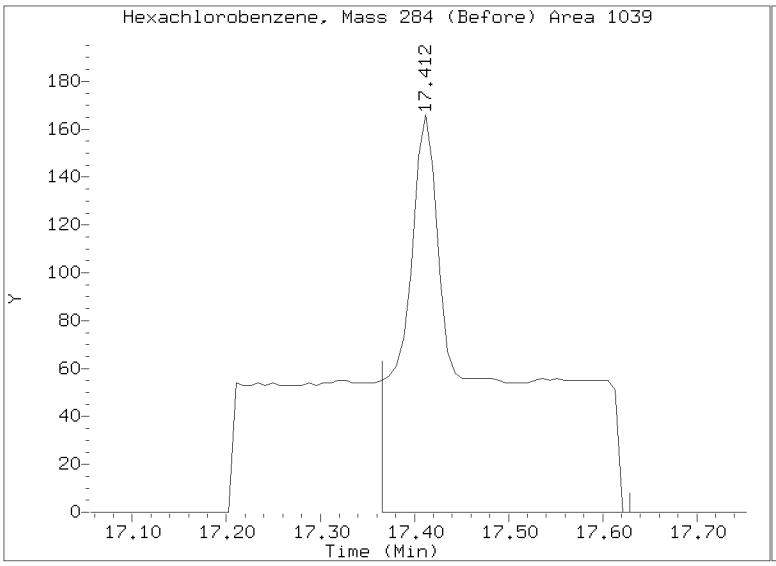


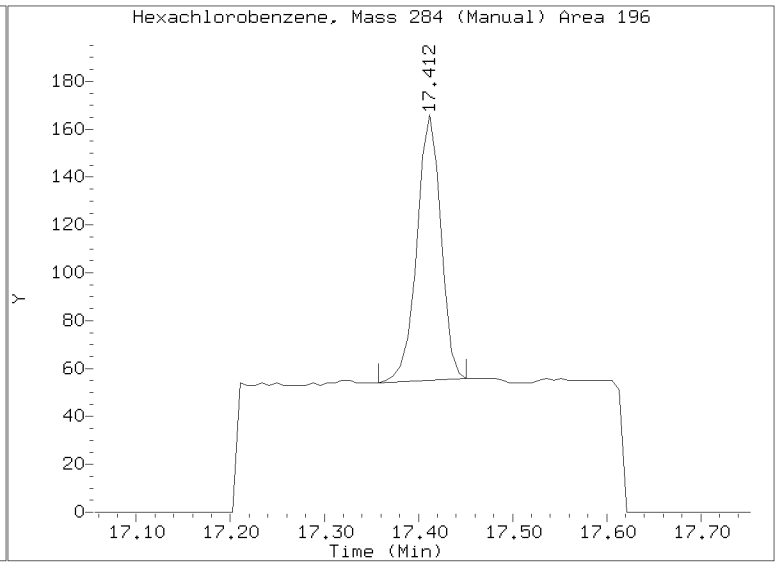


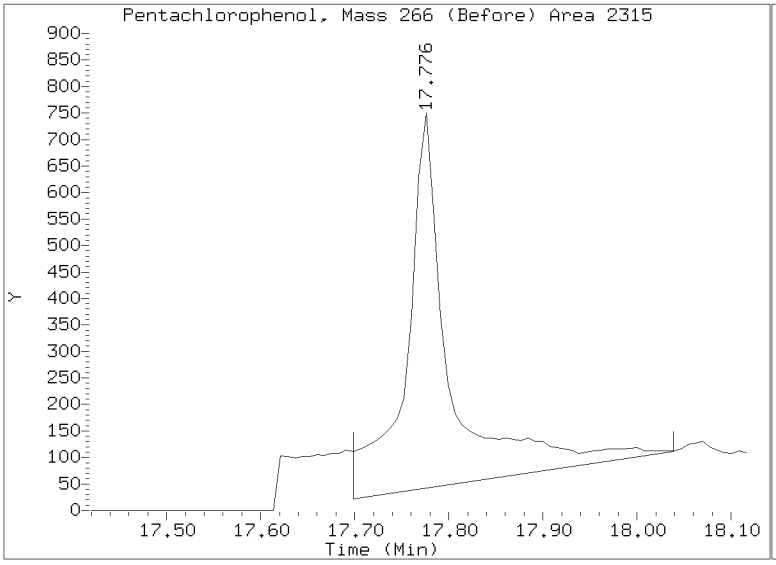


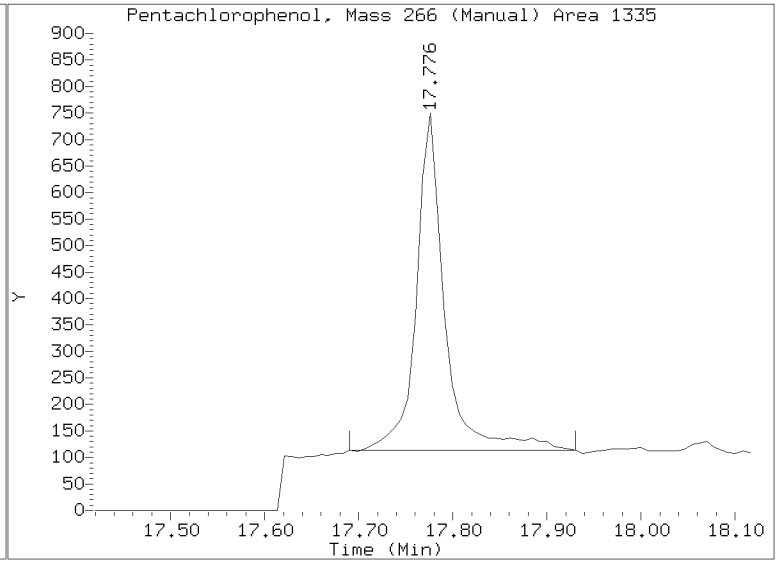
Quant Ion Manual Peak Adjustment Report

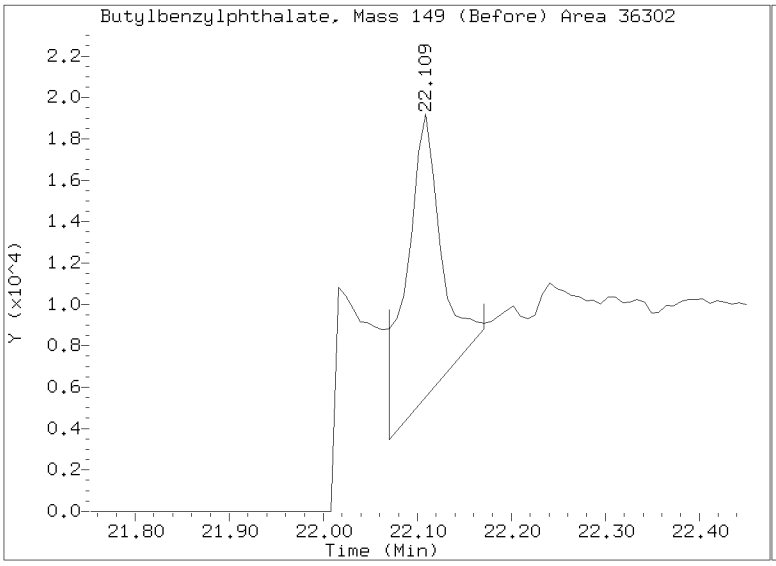
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020739S.D
Injection Date: 08-FEB-2023 11:51
Lab ID:22L0459-01 Client ID:
Report Date: 02/09/2023 14:59

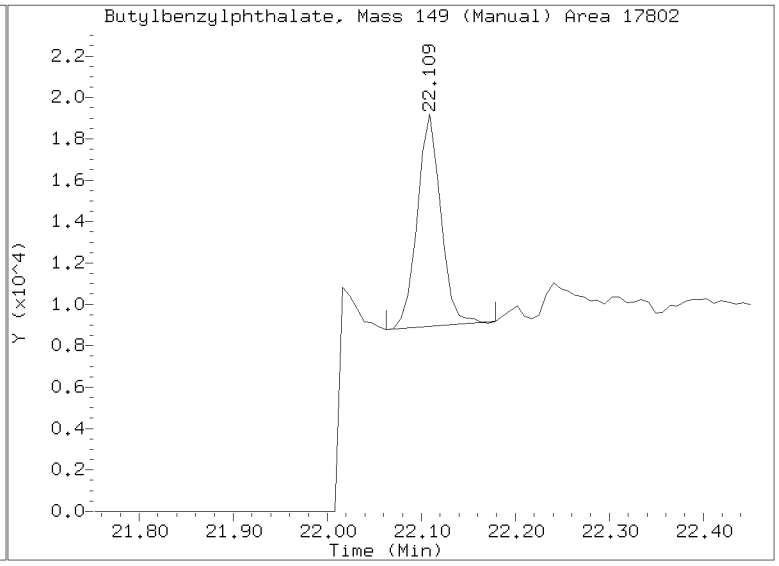












LDW23-SC1053C

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-02 A	SDG:	22L0459
Sampled:	12/16/22 09:12	Prepared:	01/05/23 16:13	File ID:	NT1023020742S.D
% Solids:	57.86	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/08/23 13:46
Batch:	BLA0064	Sequence:	SLB0106	Initial/Final:	17.31 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GB00019

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	3.5	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	1.5	J	0.7	5.0
100-51-6	Benzyl Alcohol	1	44.2		2.5	20.0
65-85-0	Benzoic acid	1	110		13.4	99.8
105-67-9	2,4-Dimethylphenol	1	6.9	J	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.1		1.3	5.0
87-86-5	Pentachlorophenol	1	8.7	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.83	568	75.8	27 - 120	
p-Terphenyl-d14	499.22	527	106	37 - 120	

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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

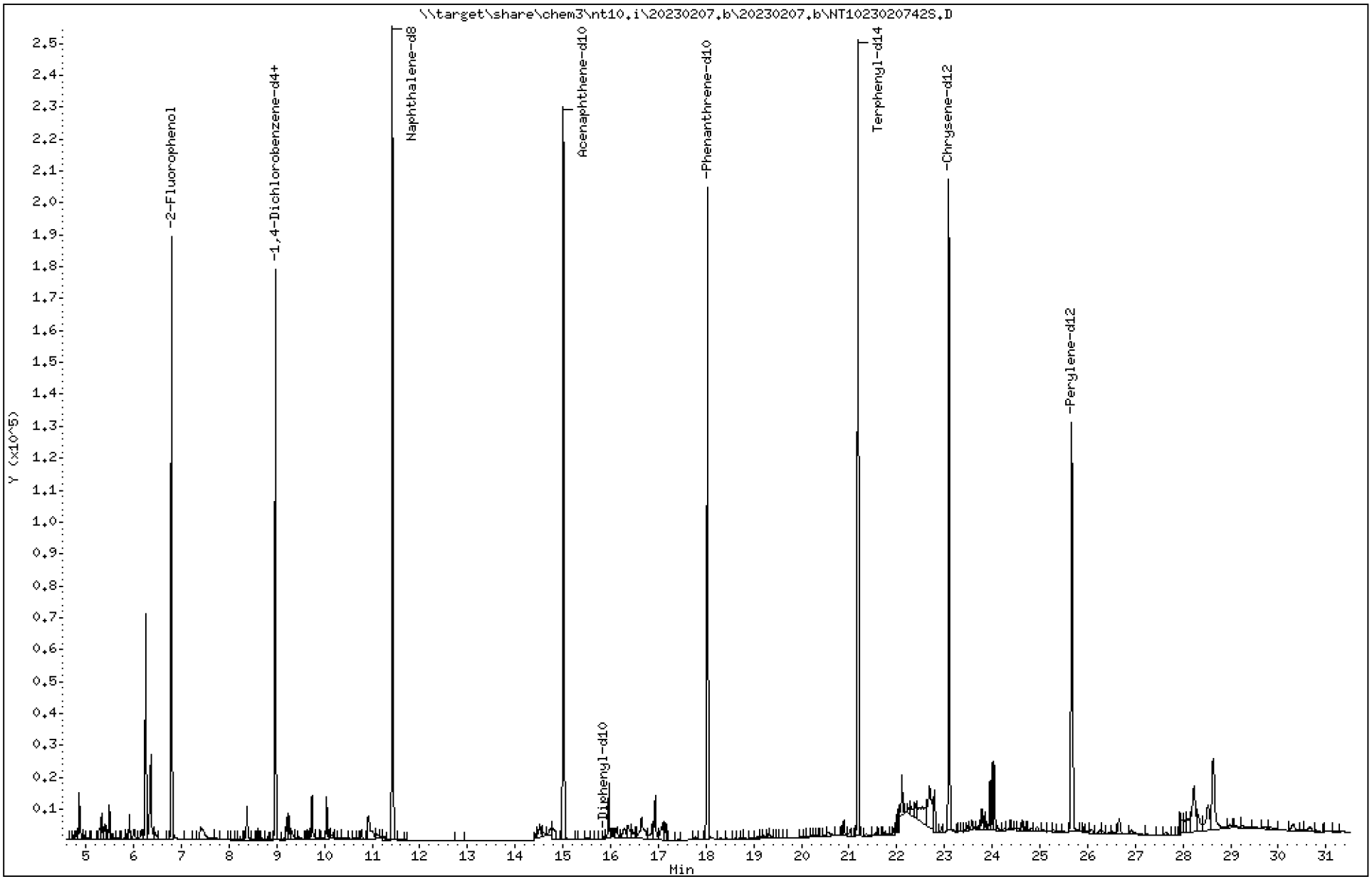
Sample Info: 22L0459-02

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

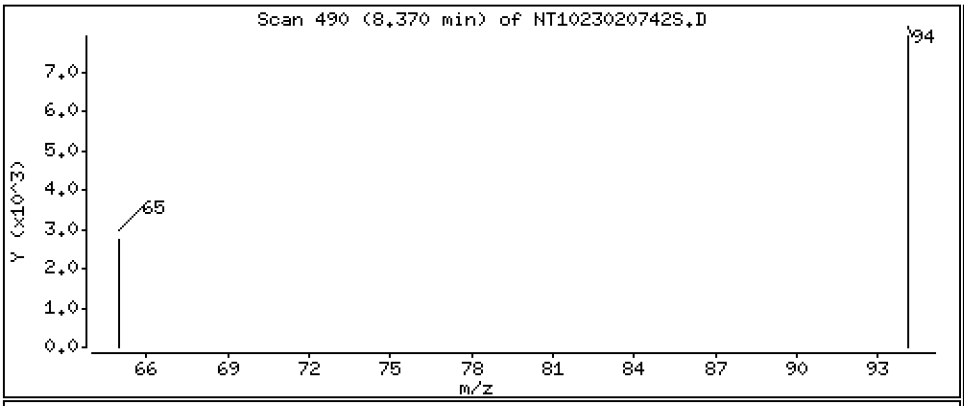
Operator: DSD

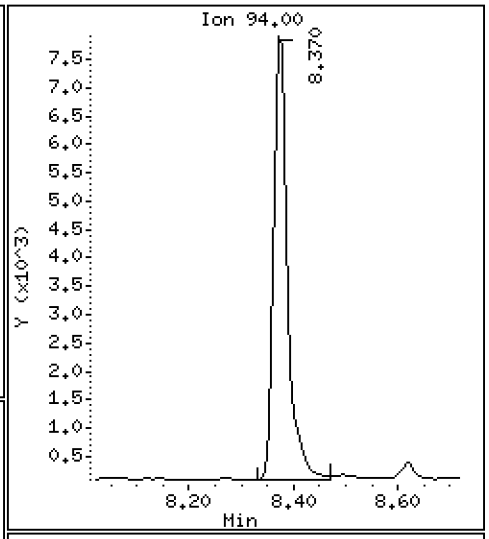
Column phase: ZB-5msi

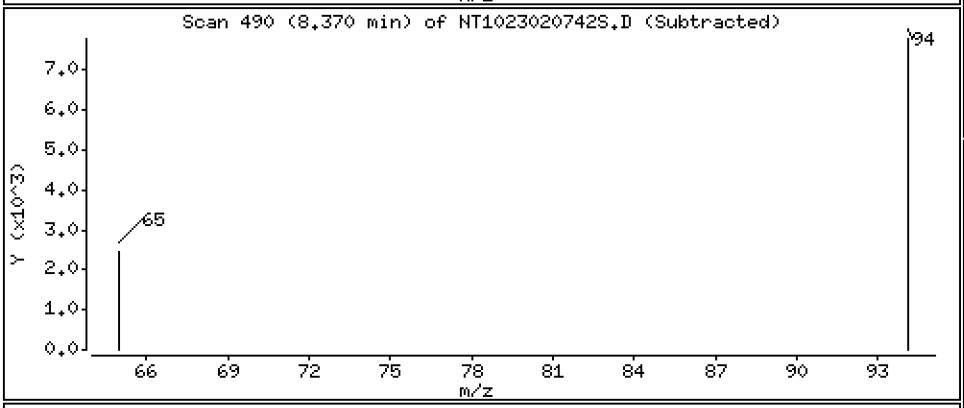
Column diameter: 0.25

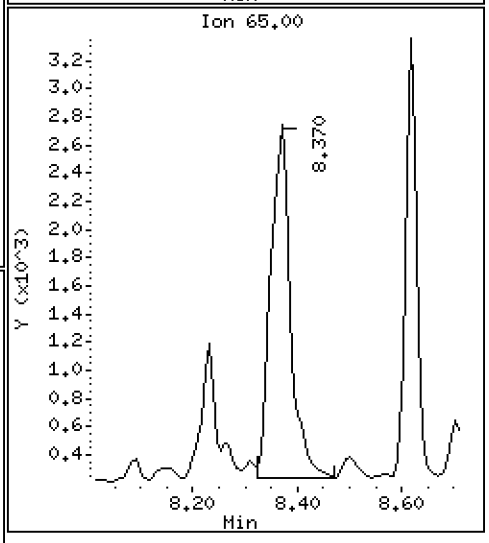
3 Phenol

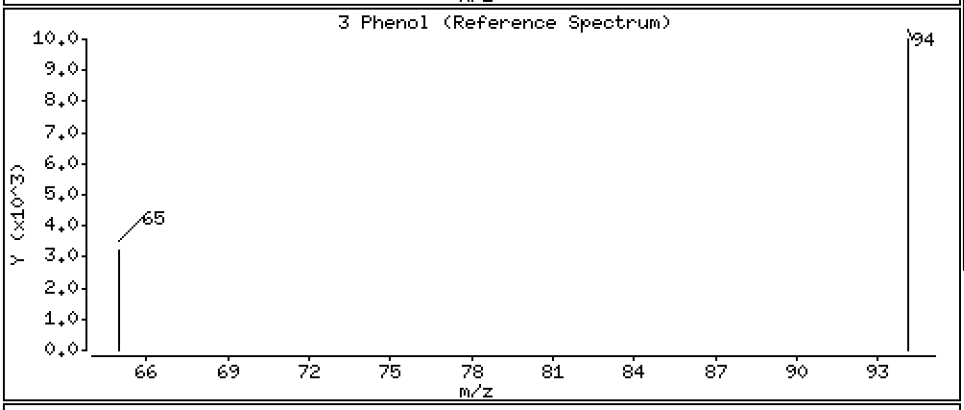
Concentration: 0.3018 ug/L

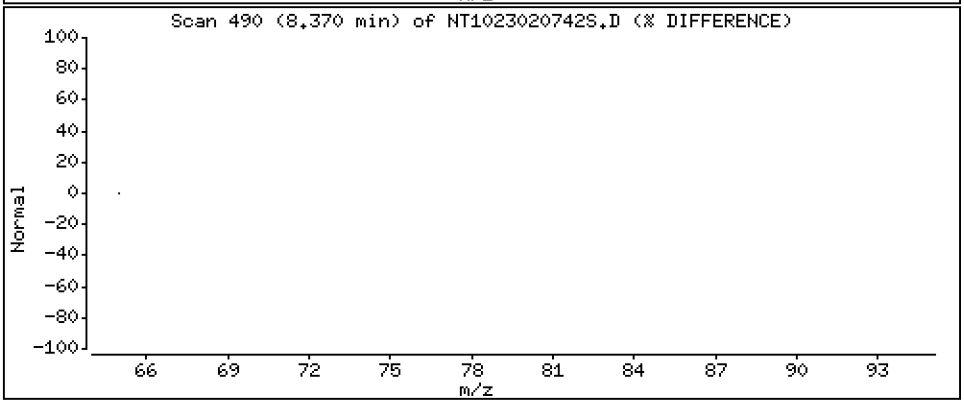












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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

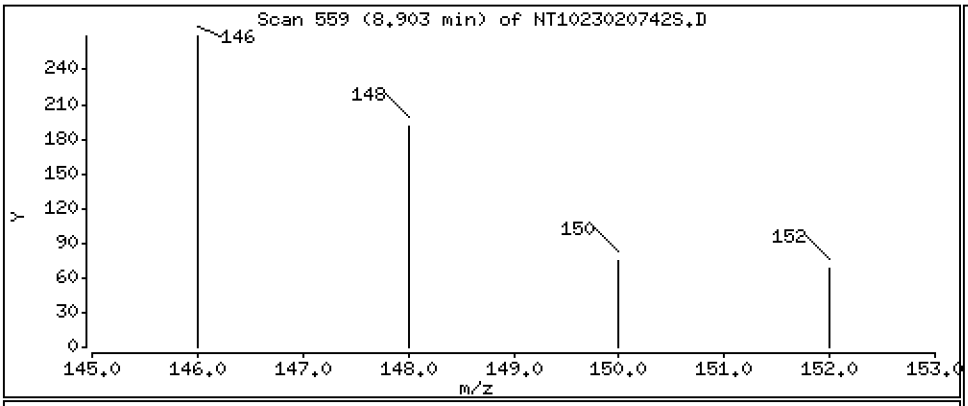
Operator: DSD

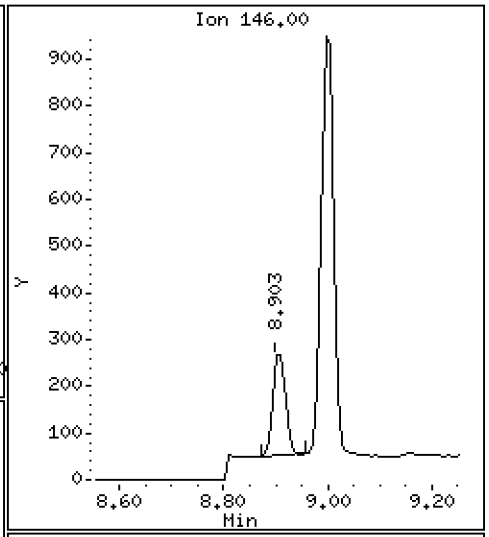
Column phase: ZB-5msi

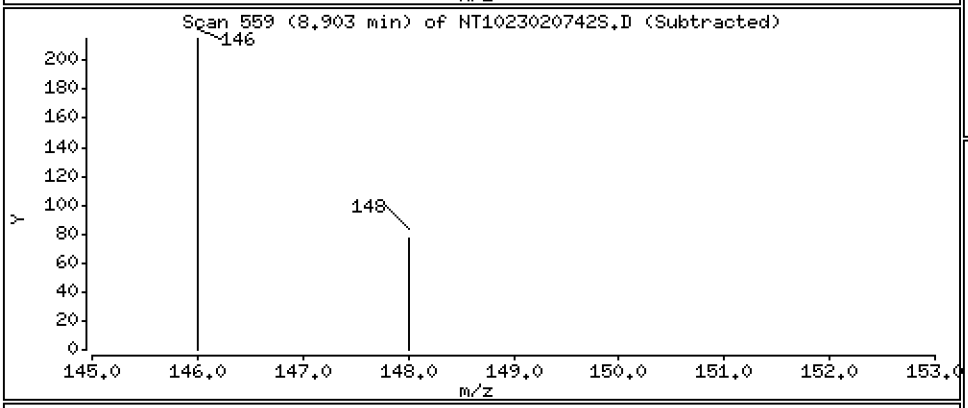
Column diameter: 0.25

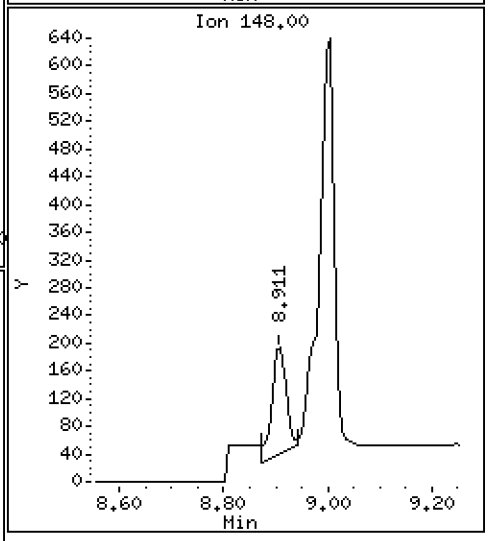
7 1,3-Dichlorobenzene

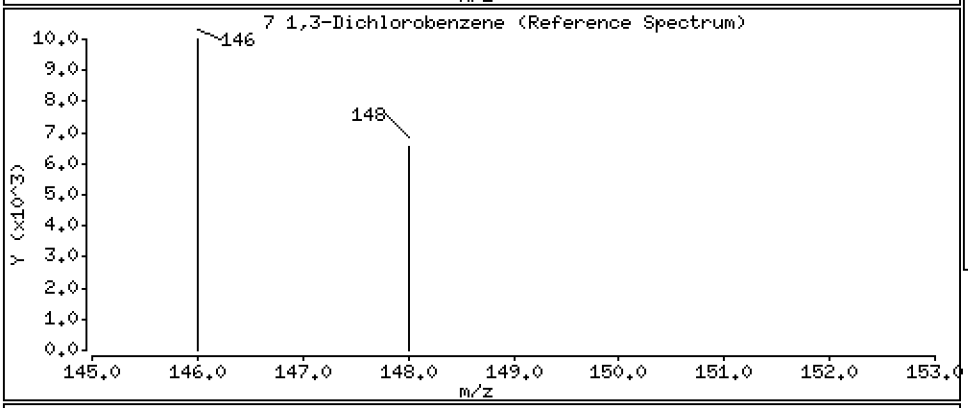
Concentration: 0.008281 ug/L

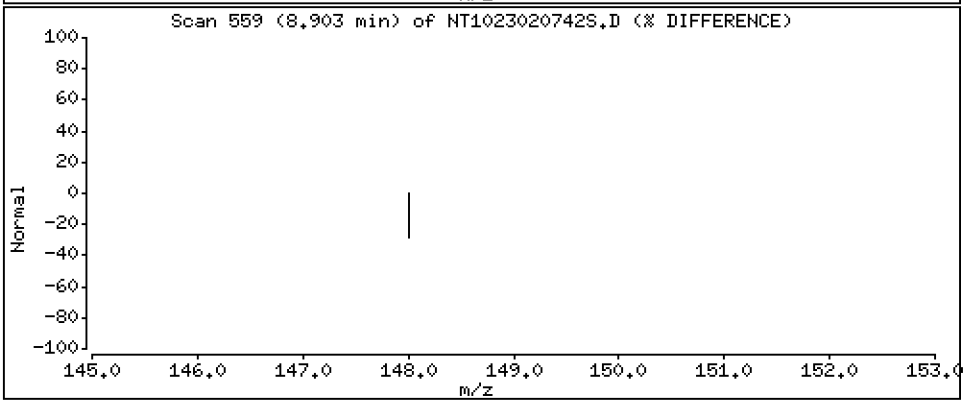












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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

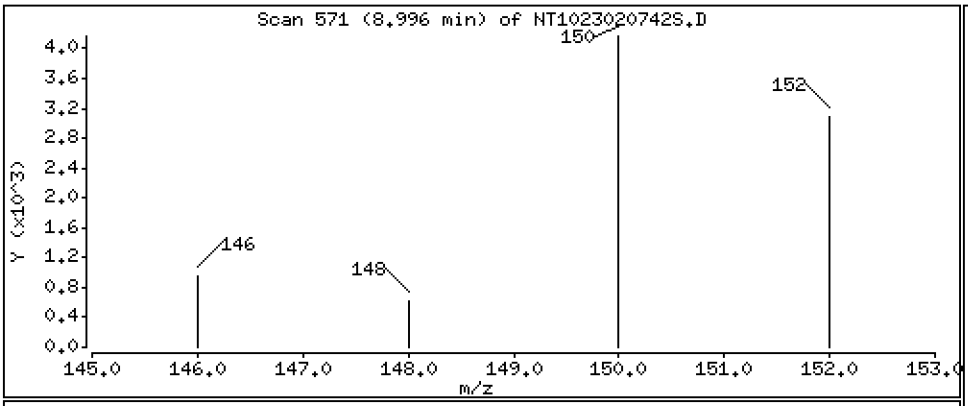
Operator: DSD

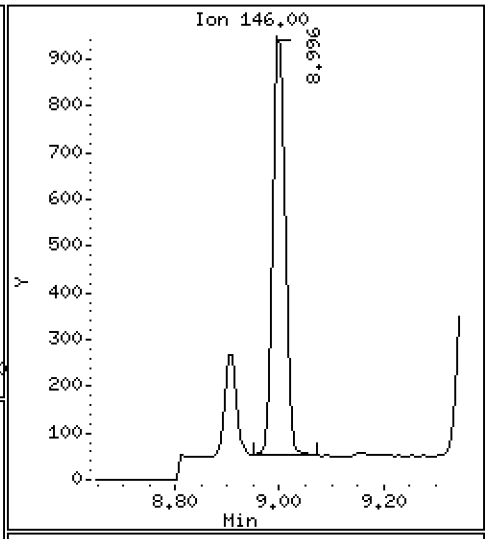
Column phase: ZB-5msi

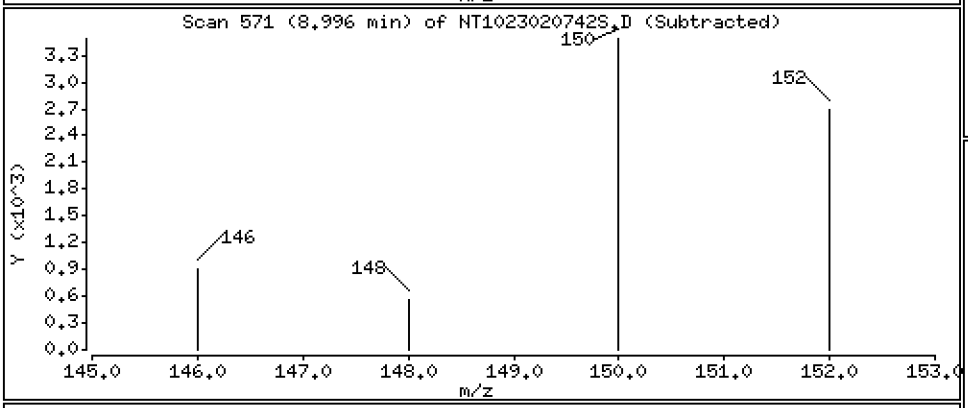
Column diameter: 0.25

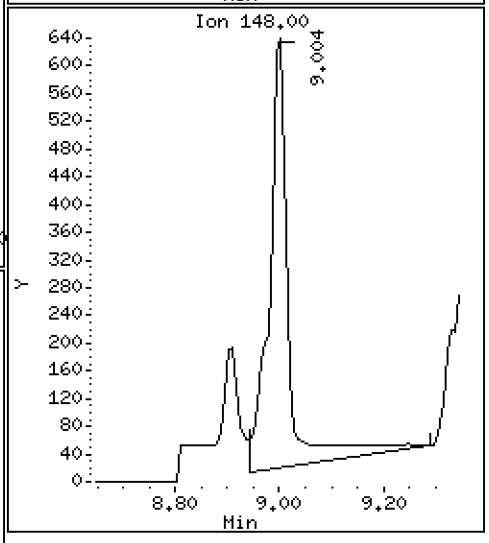
9 1,4-Dichlorobenzene

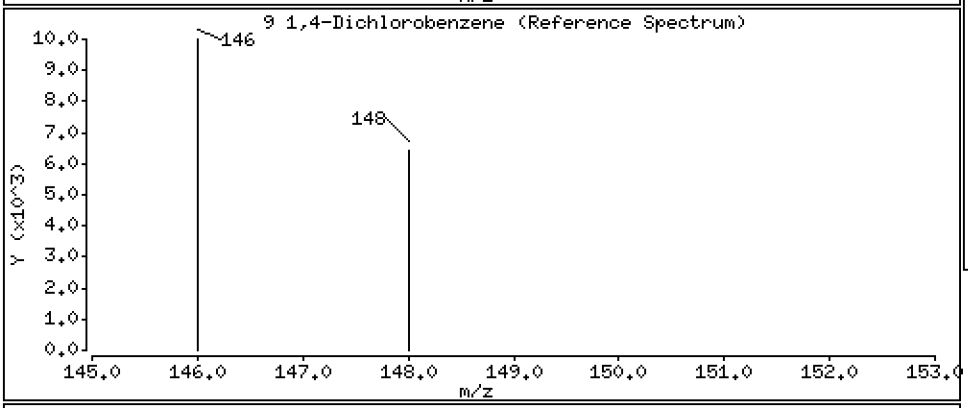
Concentration: 0.03493 ug/L

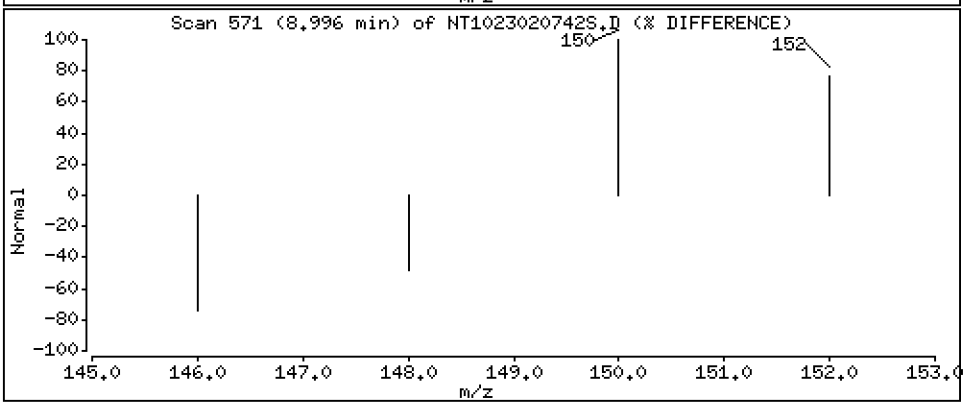












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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

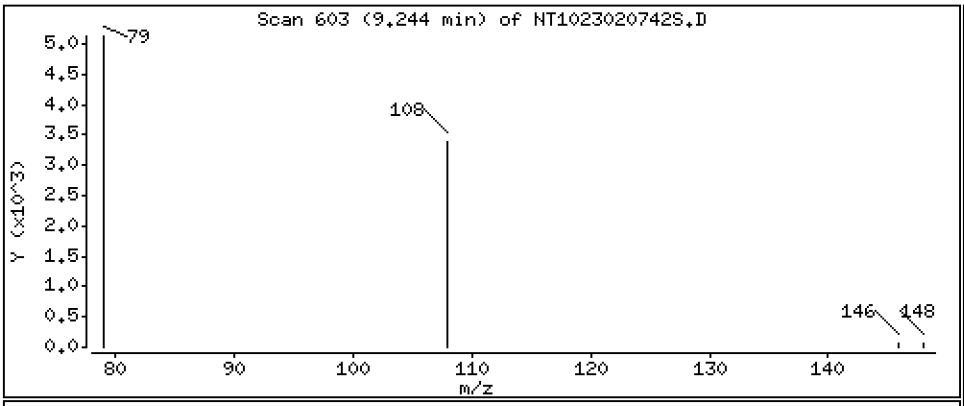
Operator: DSD

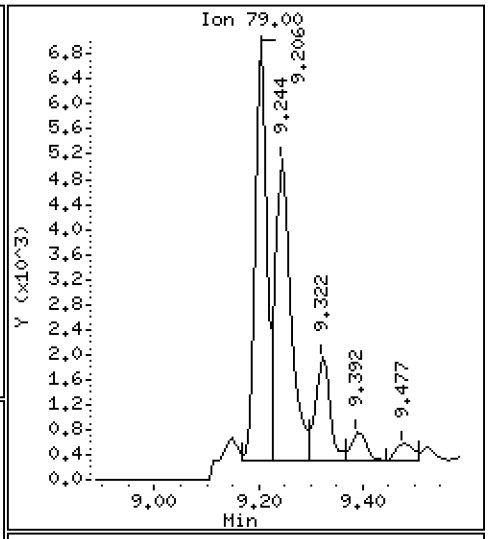
Column phase: ZB-5msi

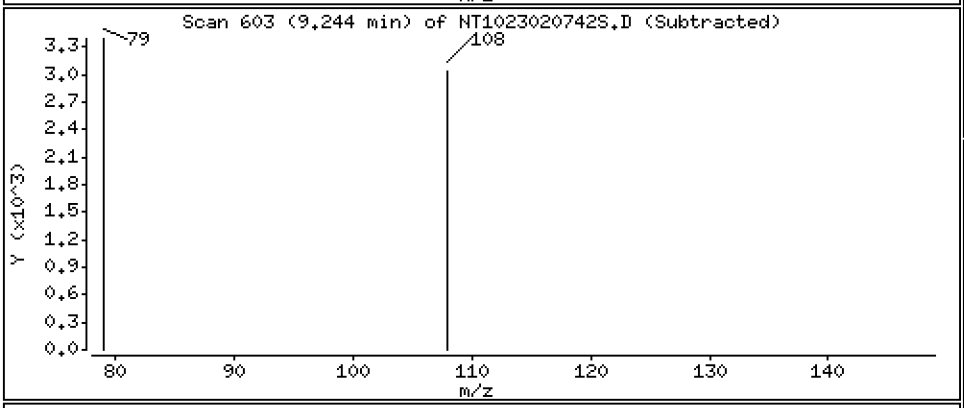
Column diameter: 0.25

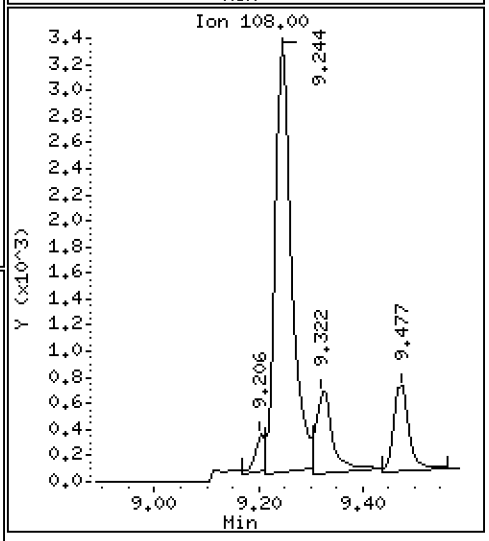
11 Benzyl alcohol

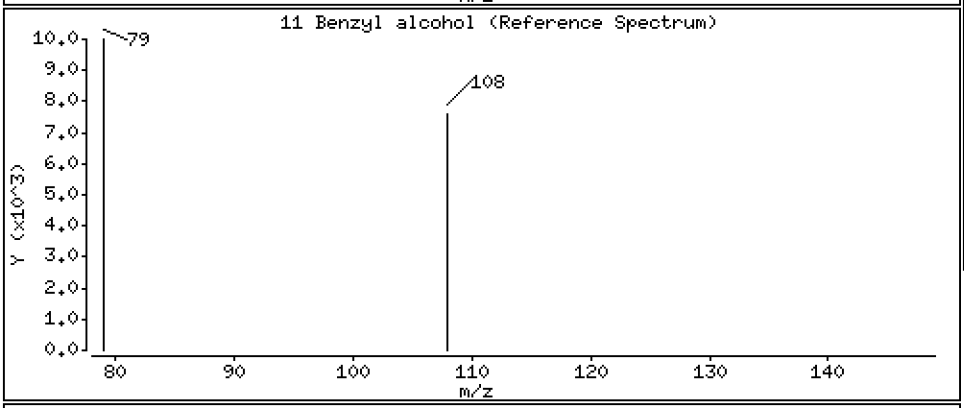
Concentration: 0.4423 ug/L

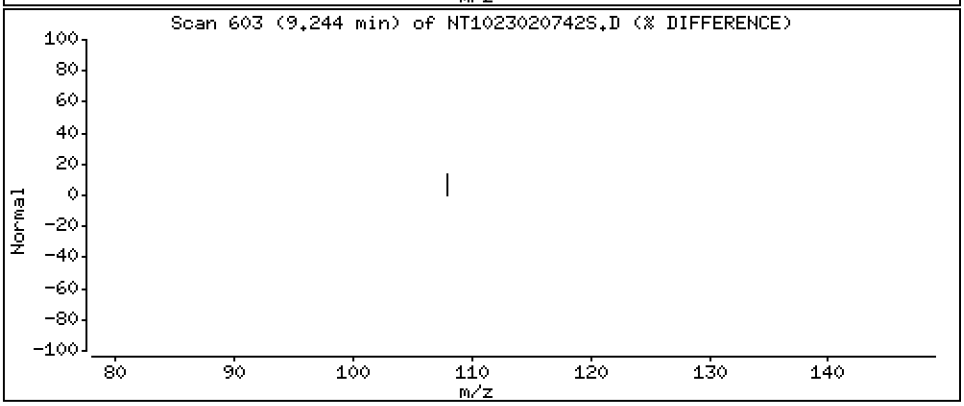












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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

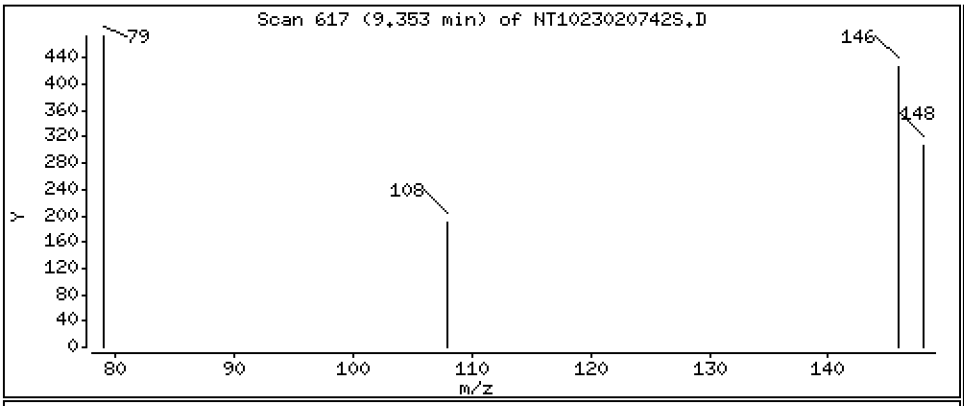
Operator: DSD

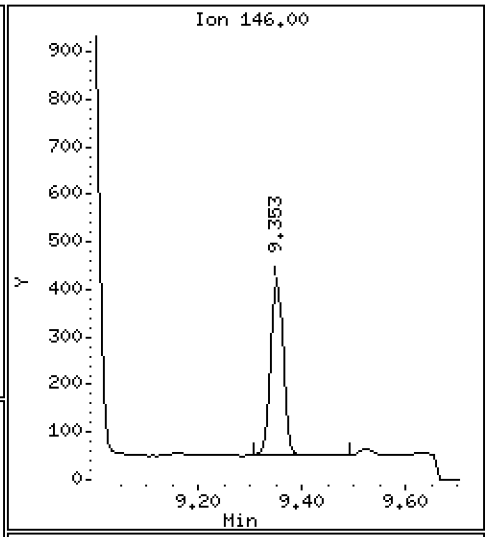
Column phase: ZB-5msi

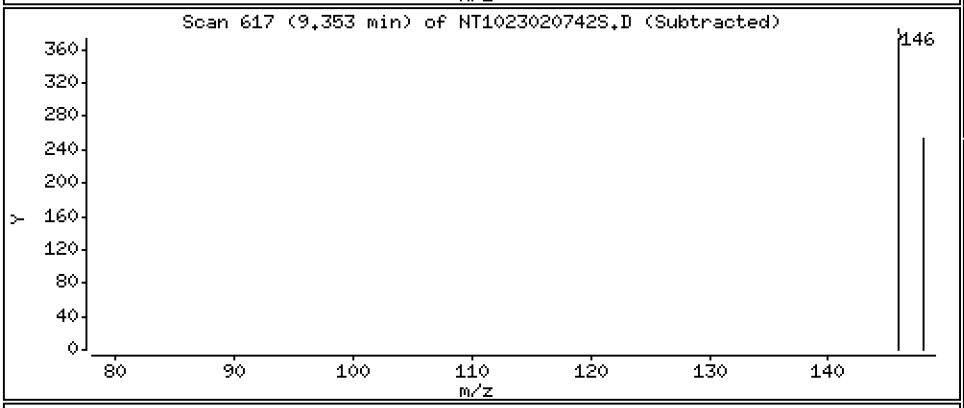
Column diameter: 0.25

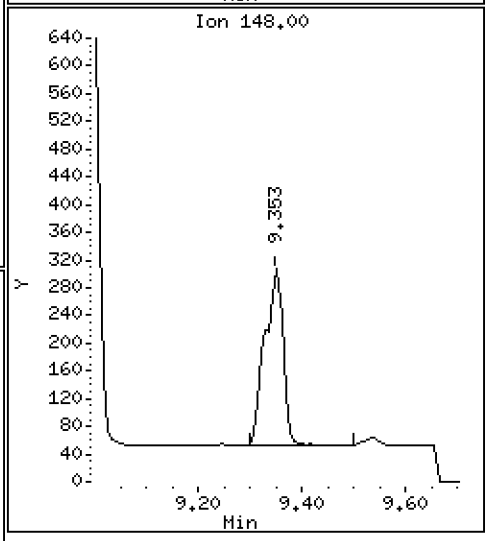
12 1,2-Dichlorobenzene

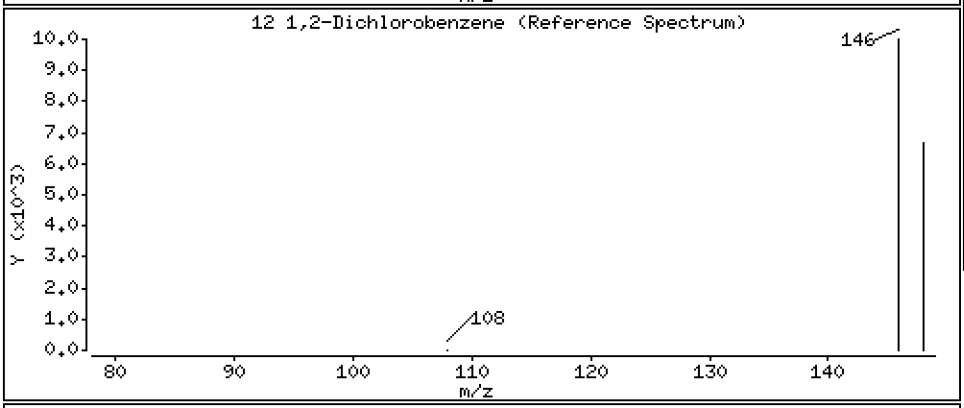
Concentration: 0.01479 ug/L

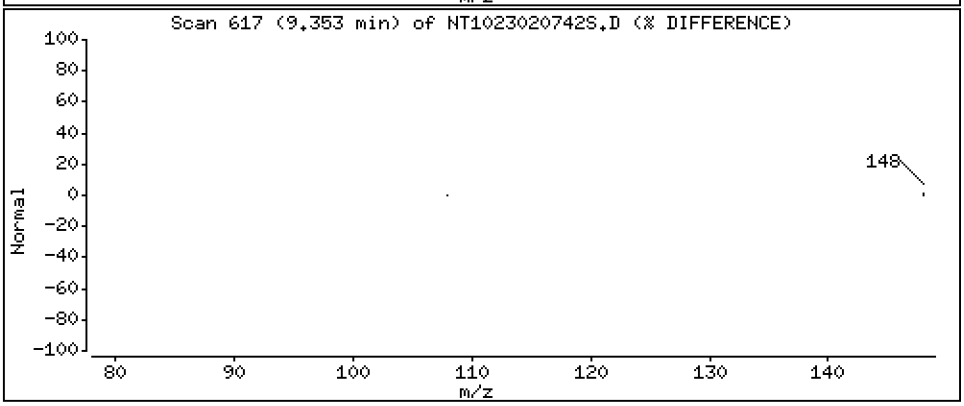












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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

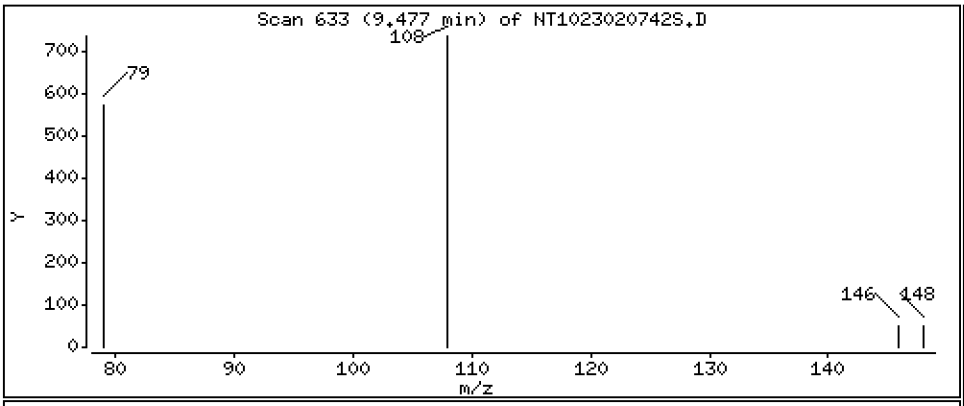
Operator: DSD

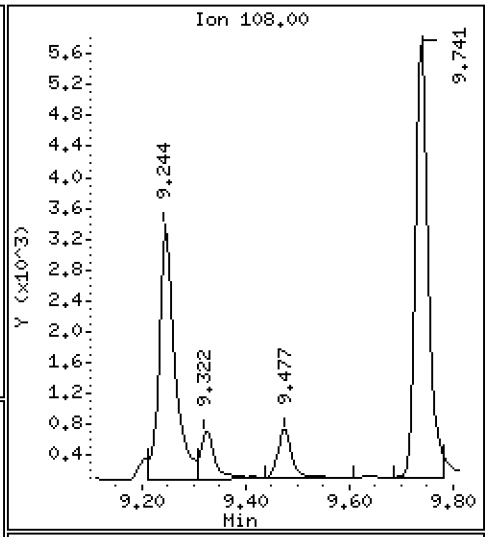
Column phase: ZB-5msi

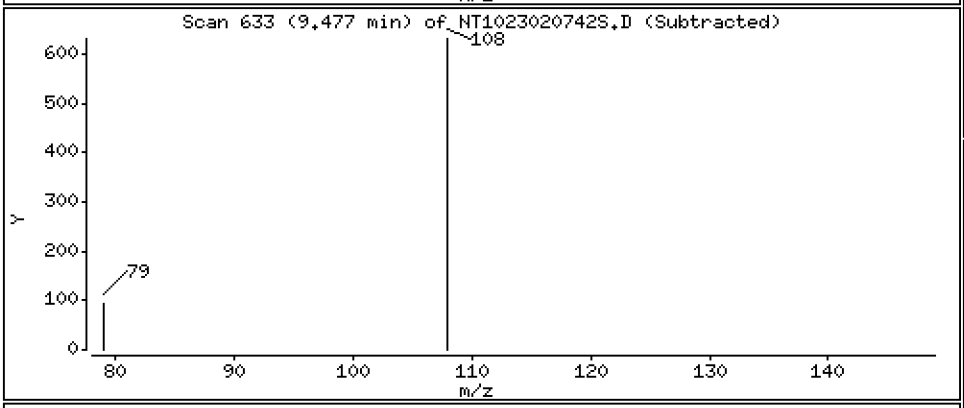
Column diameter: 0.25

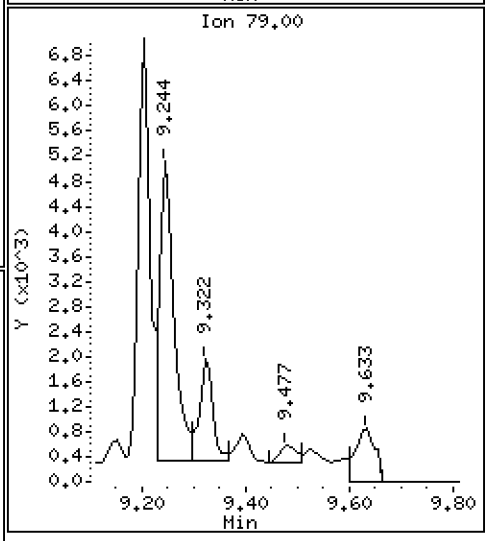
13 2-Methylphenol

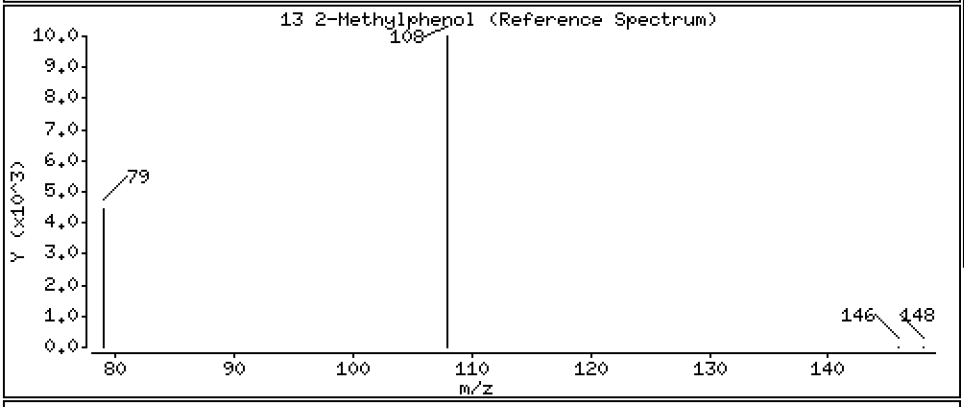
Concentration: 0.03980 ug/L

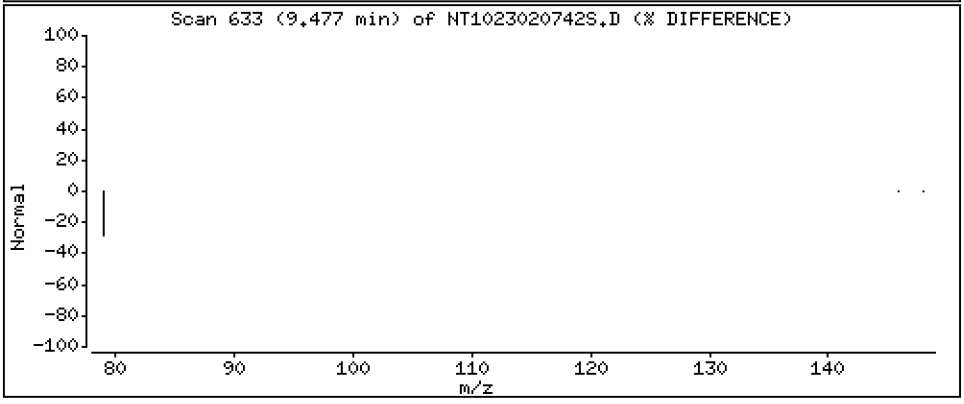












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207425.D

Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

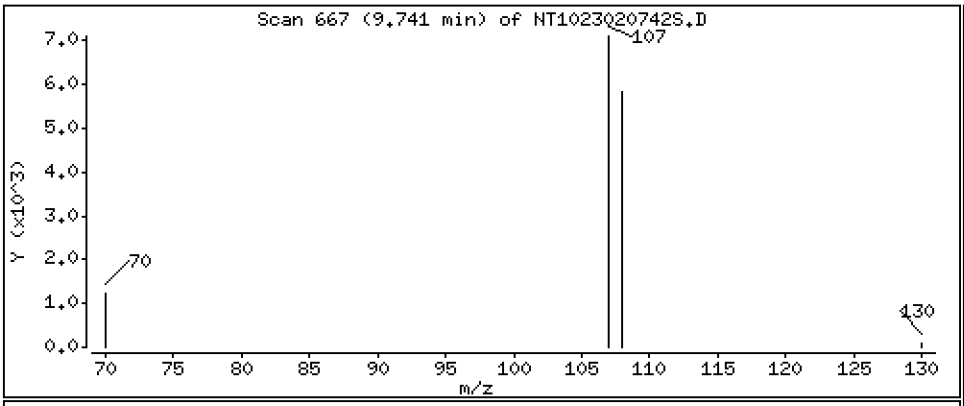
Operator: DSD

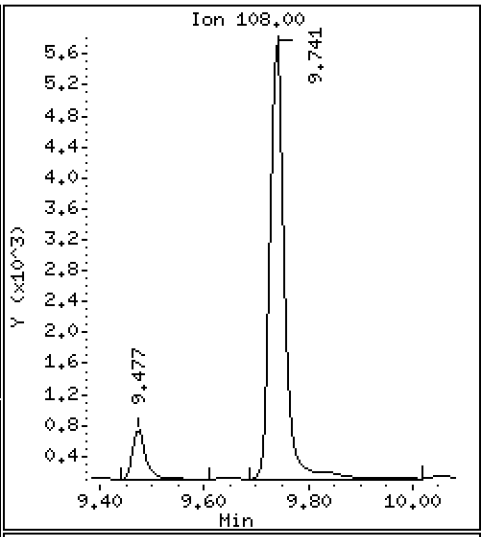
Column phase: ZB-5msi

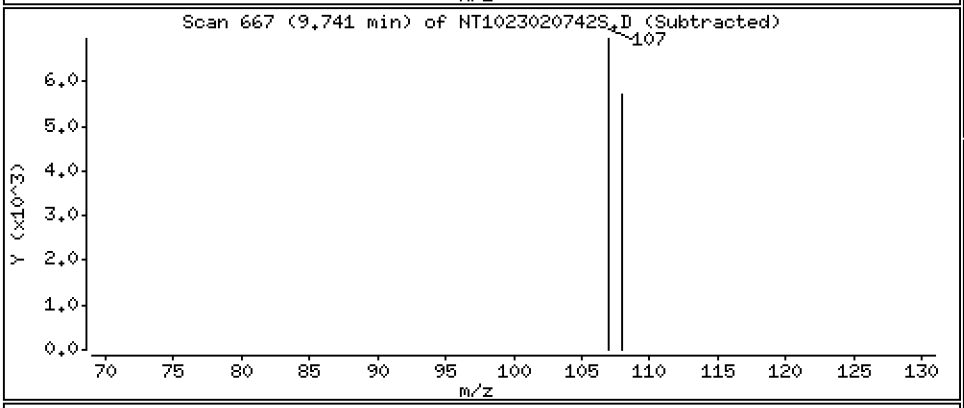
Column diameter: 0.25

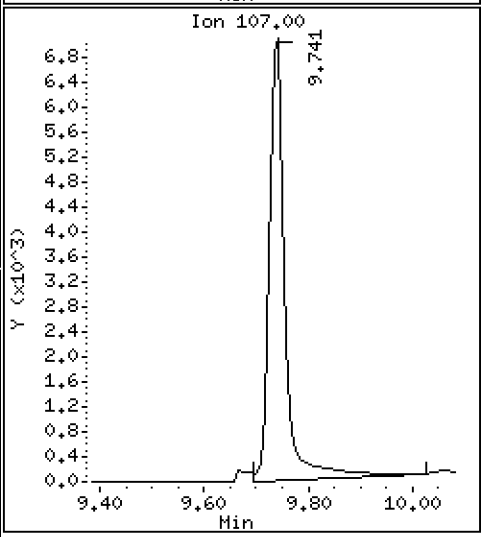
15 4-Methylphenol

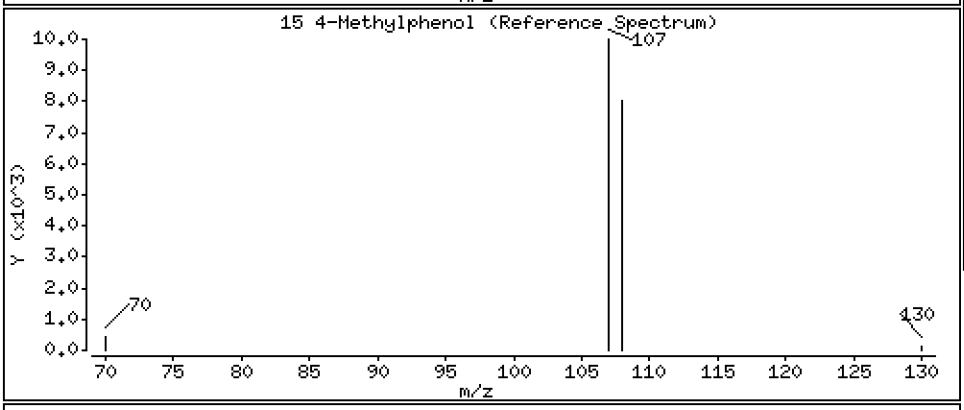
Concentration: 0.3316 ug/L

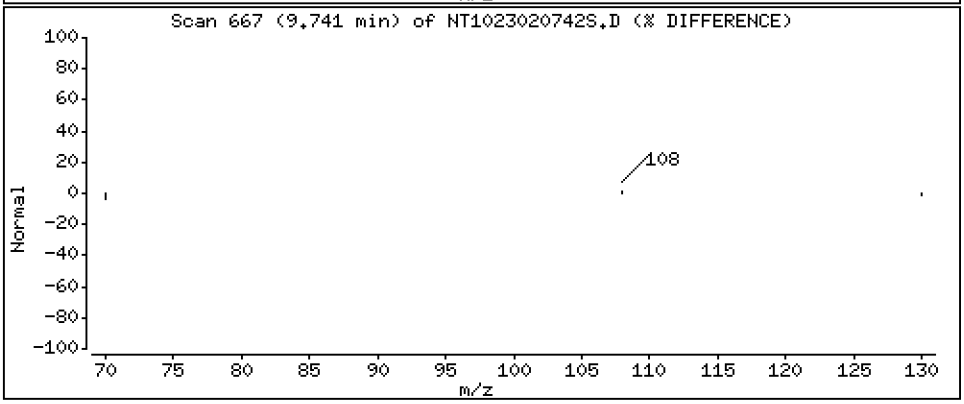












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207425.D

Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

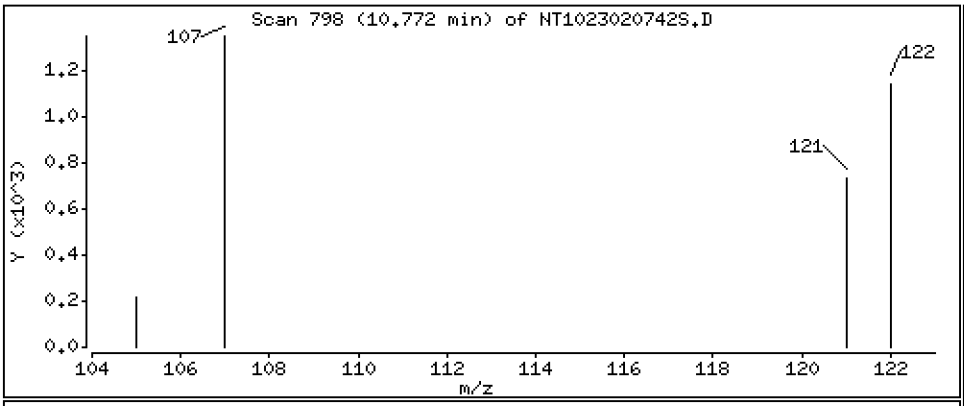
Operator: DSD

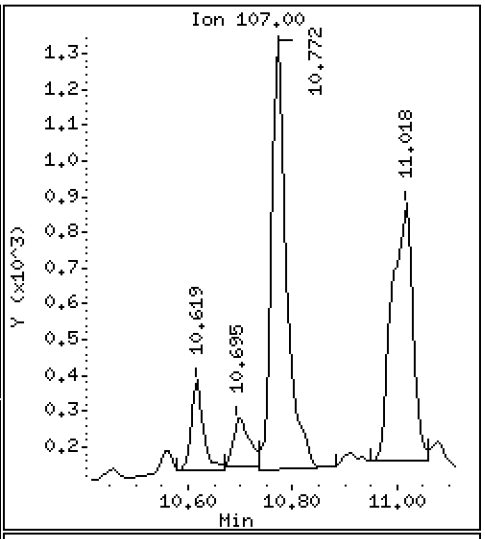
Column phase: ZB-5msi

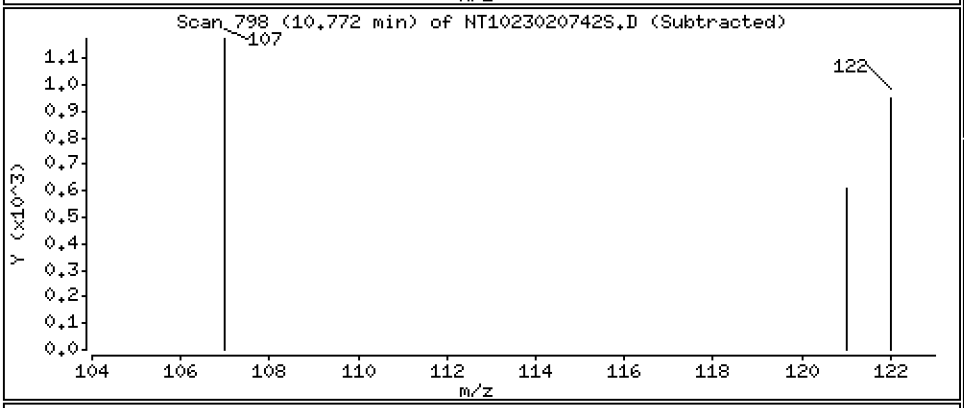
Column diameter: 0.25

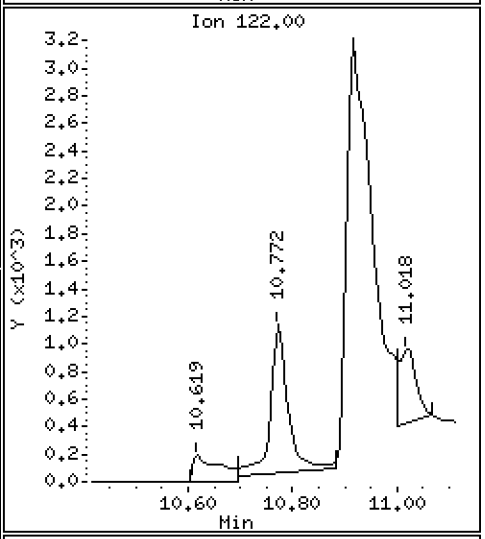
22 2,4-Dimethylphenol

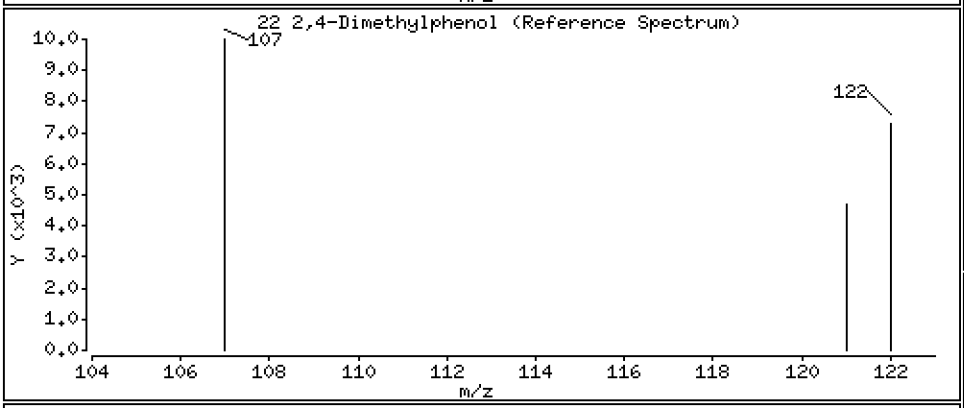
Concentration: 0.06914 ug/L

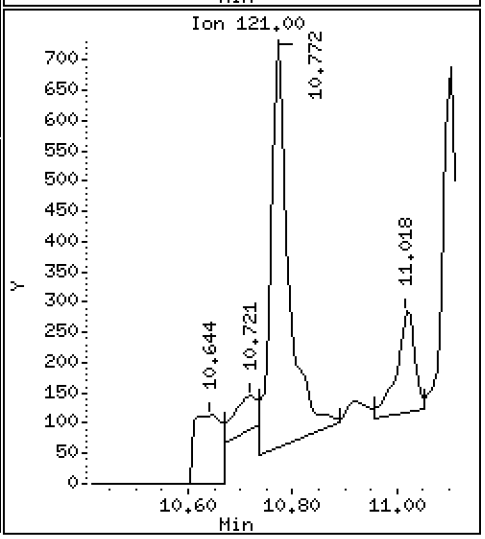


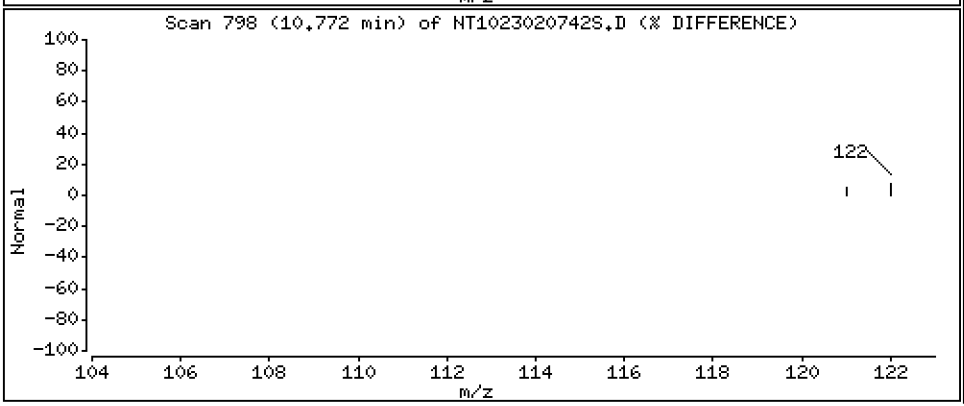












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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

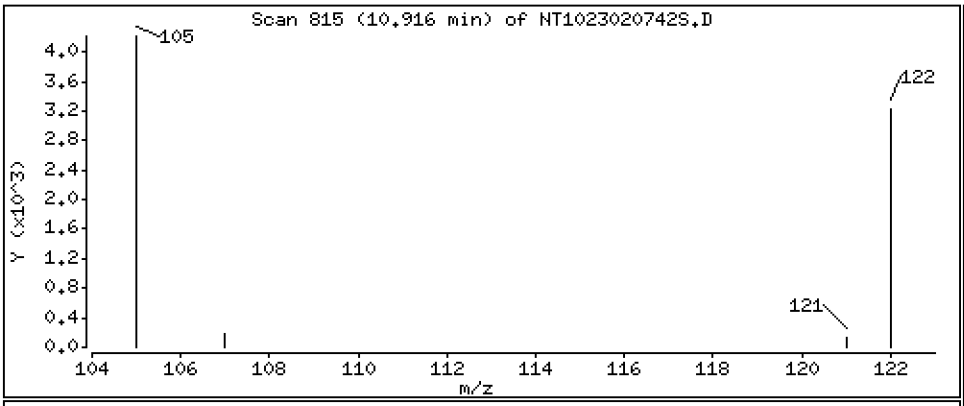
Operator: DSD

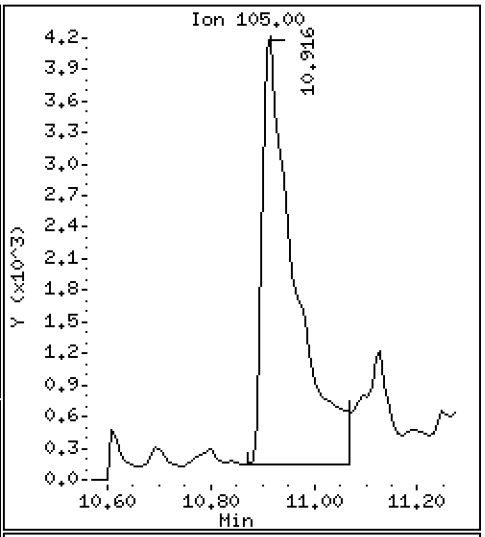
Column phase: ZB-5msi

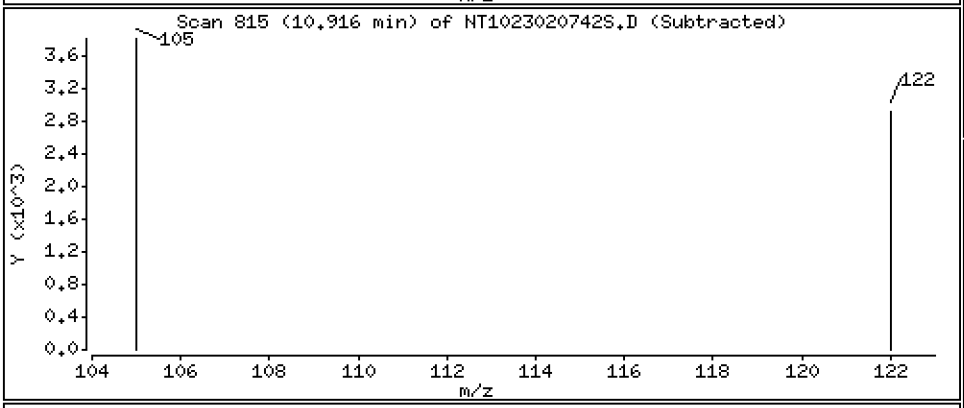
Column diameter: 0.25

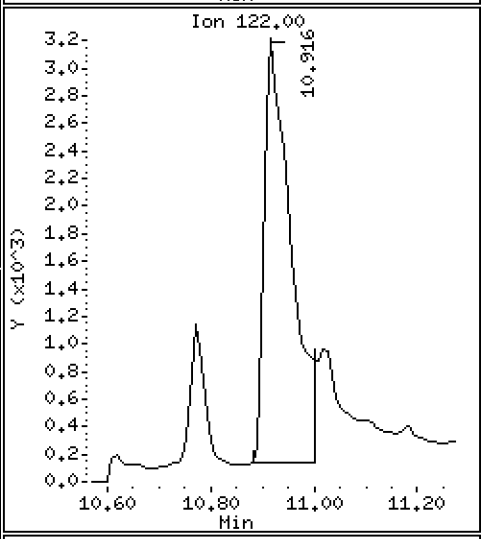
24 Benzoic acid

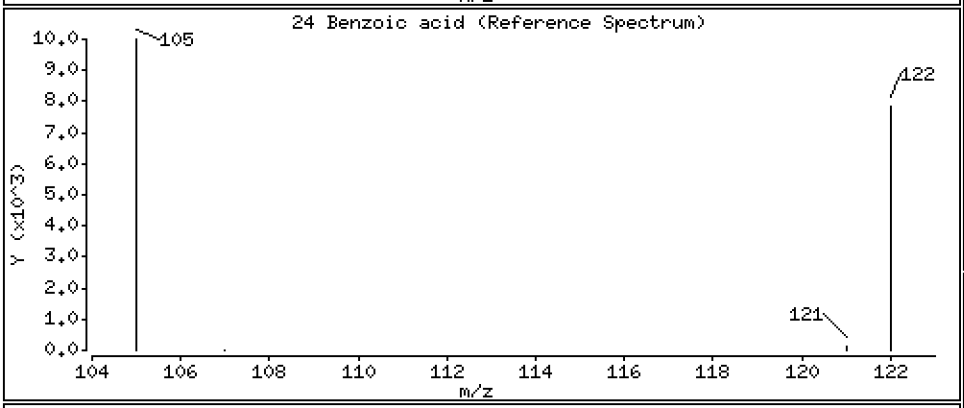
Concentration: 1.103 ug/L

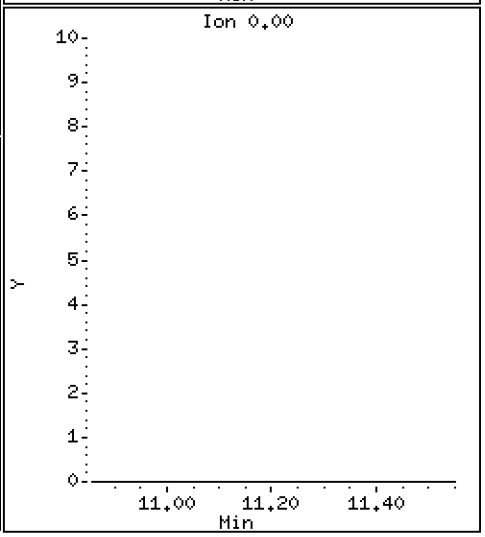


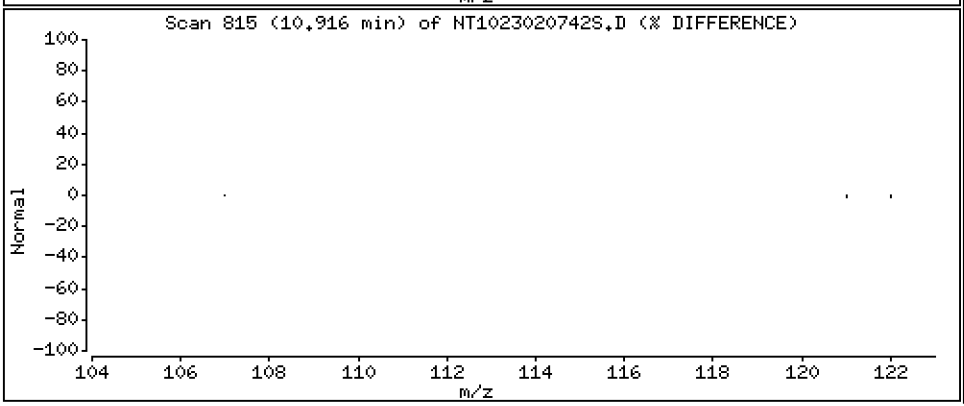












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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

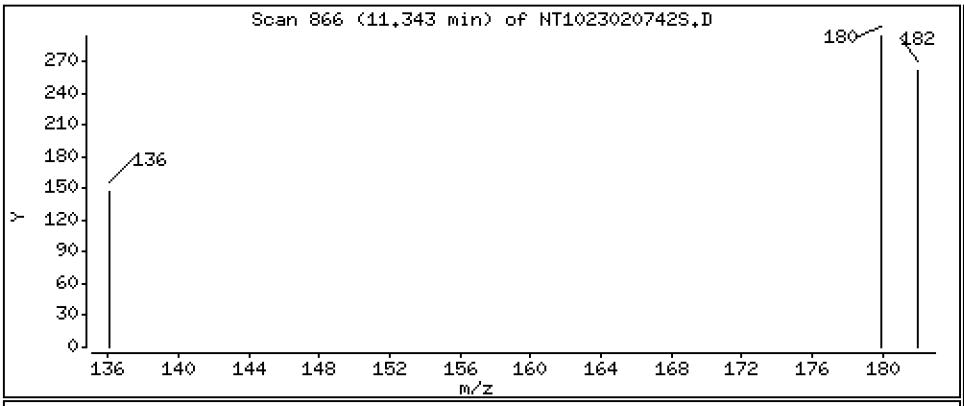
Operator: DSD

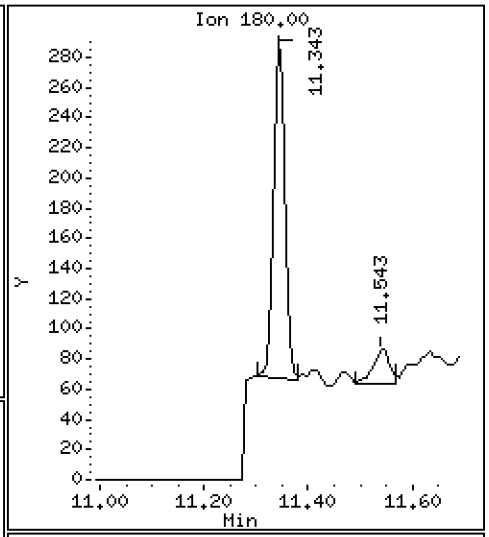
Column phase: ZB-5msi

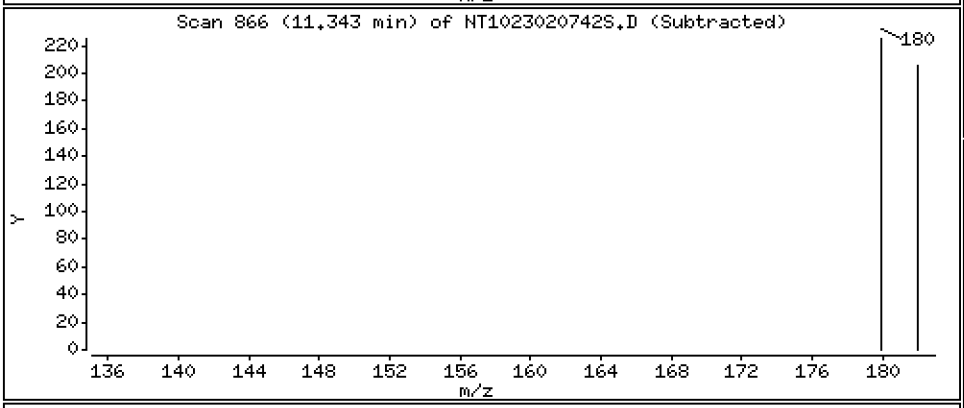
Column diameter: 0.25

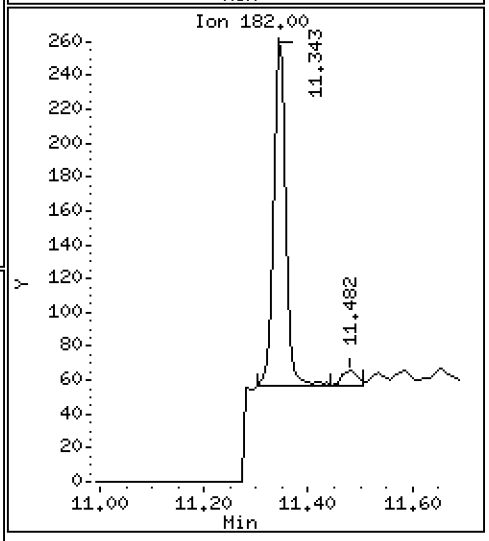
26 1,2,4-Trichlorobenzene

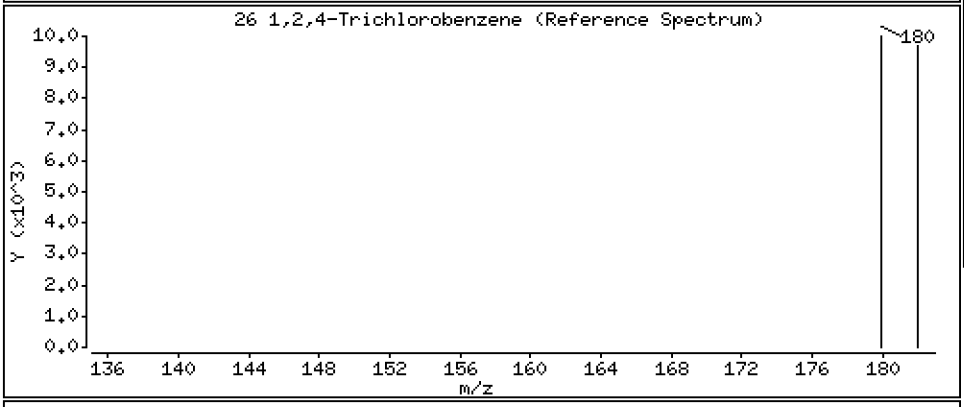
Concentration: 0.01090 ug/L

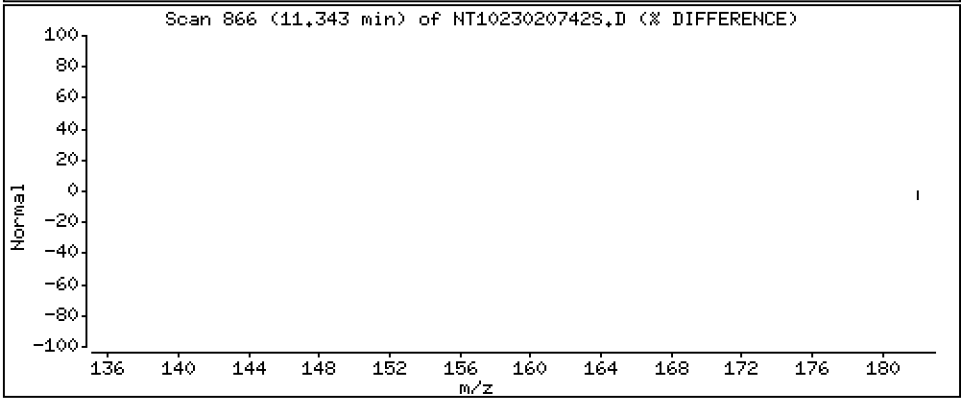












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207425.D

Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

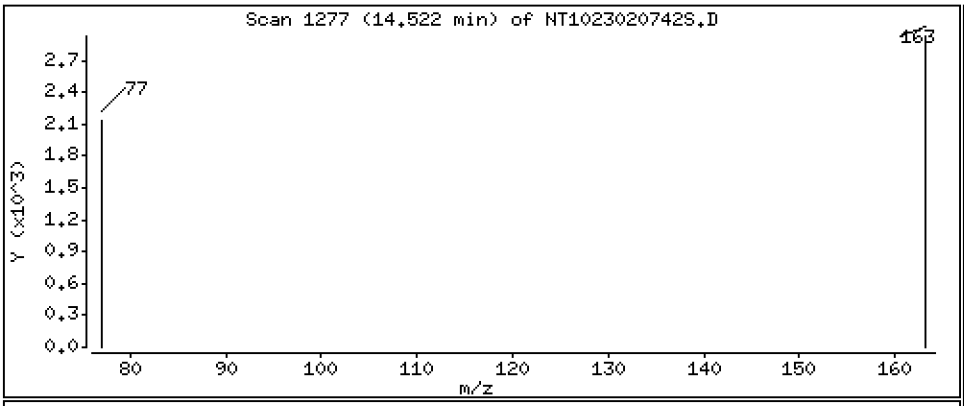
Operator: DSD

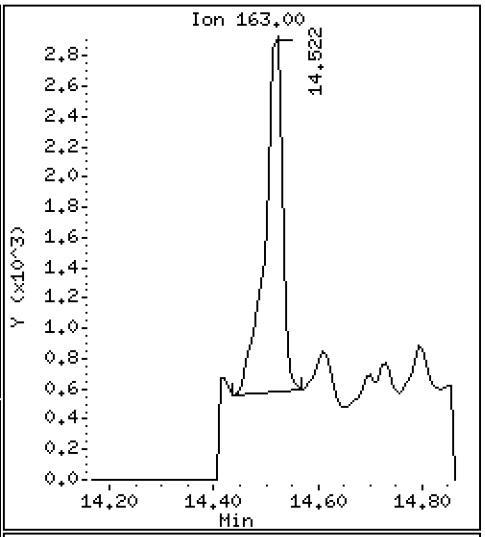
Column phase: ZB-5msi

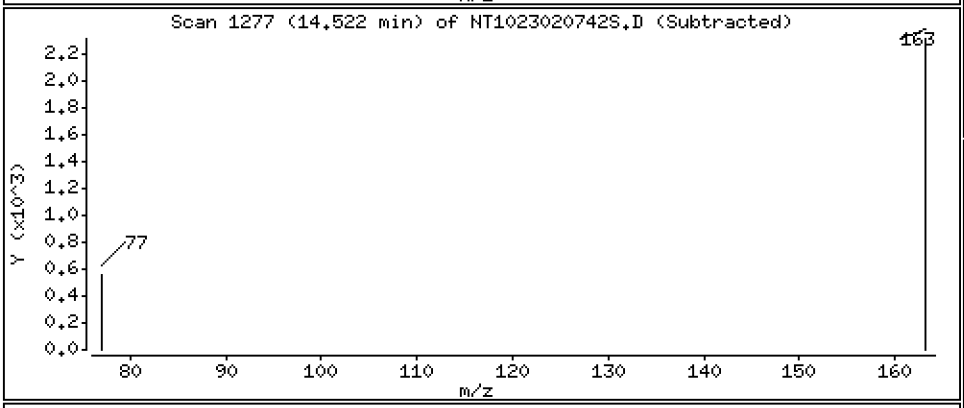
Column diameter: 0.25

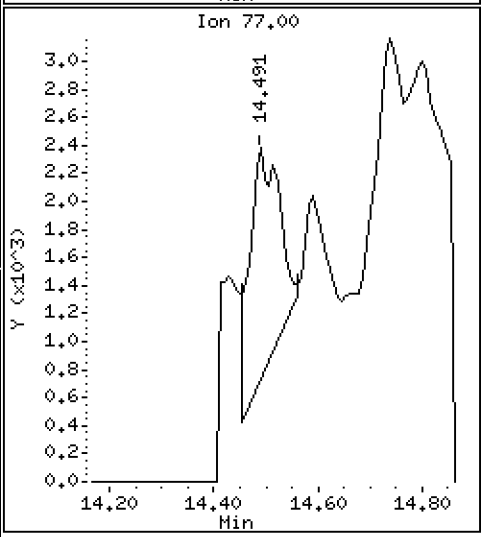
39 Dimethylphthalate

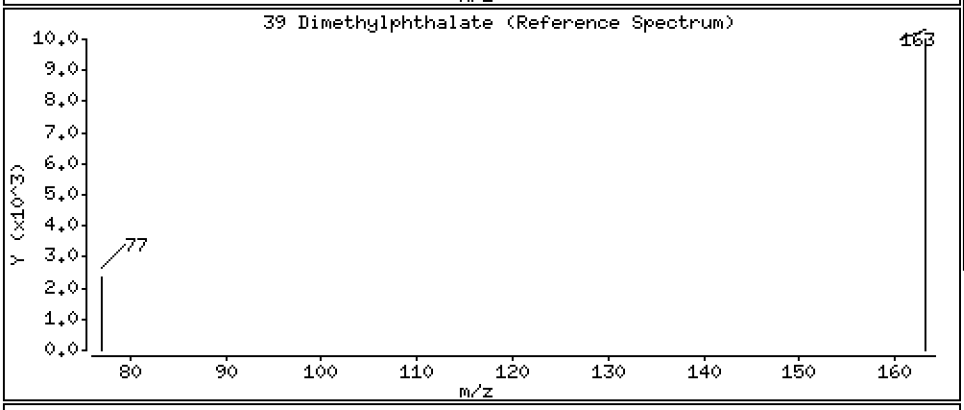
Concentration: 0.1226 ug/L

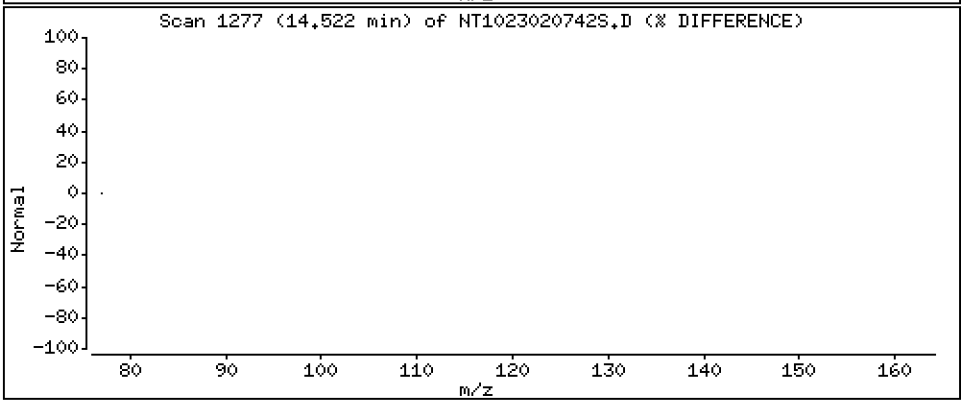












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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

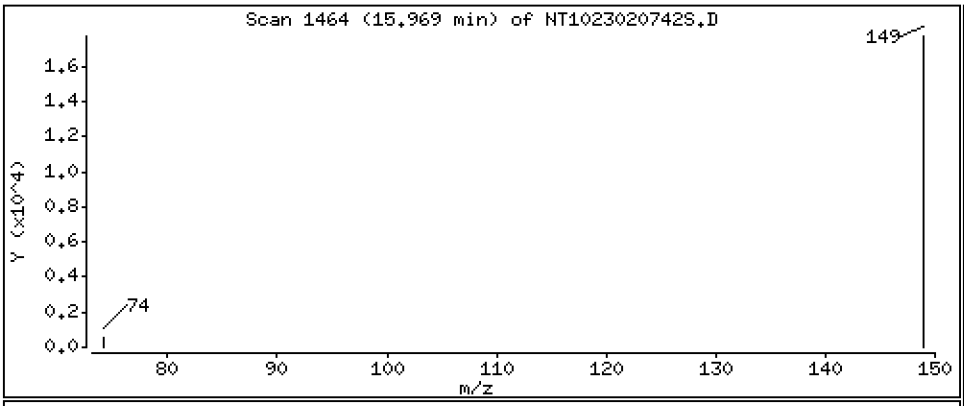
Operator: DSD

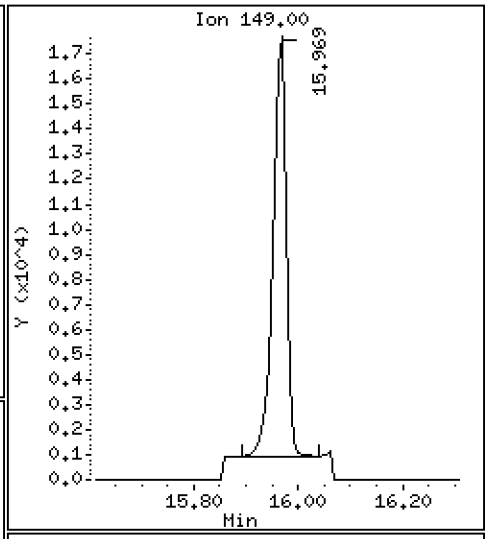
Column phase: ZB-5msi

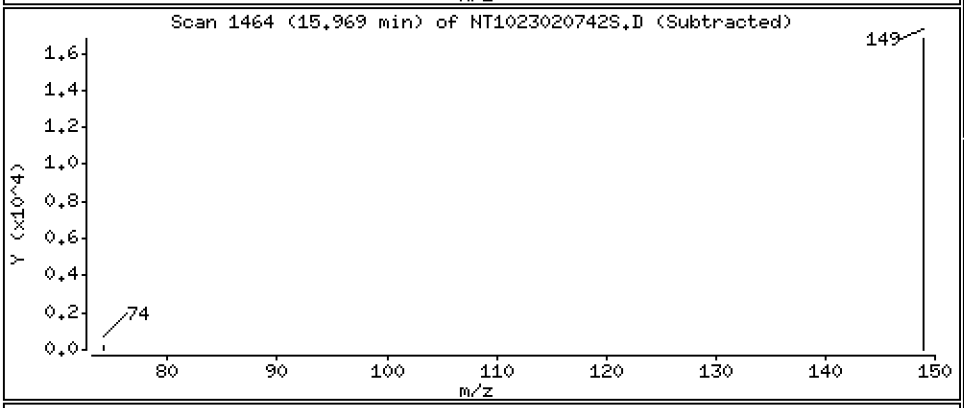
Column diameter: 0.25

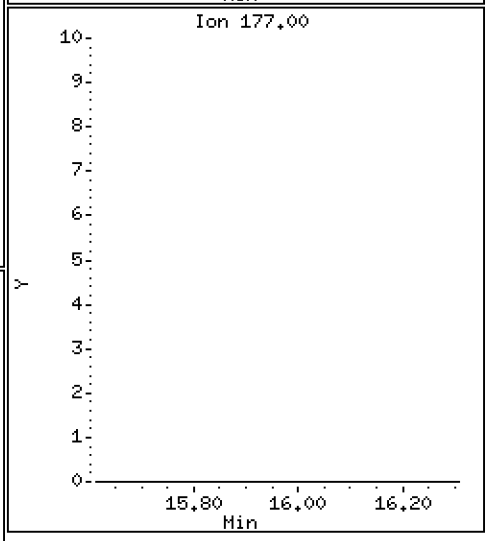
50 Diethylphthalate

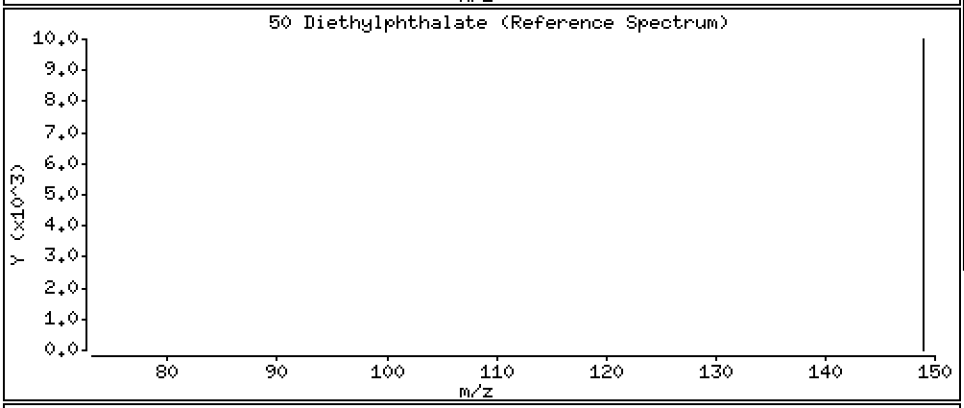
Concentration: 0.4427 ug/L

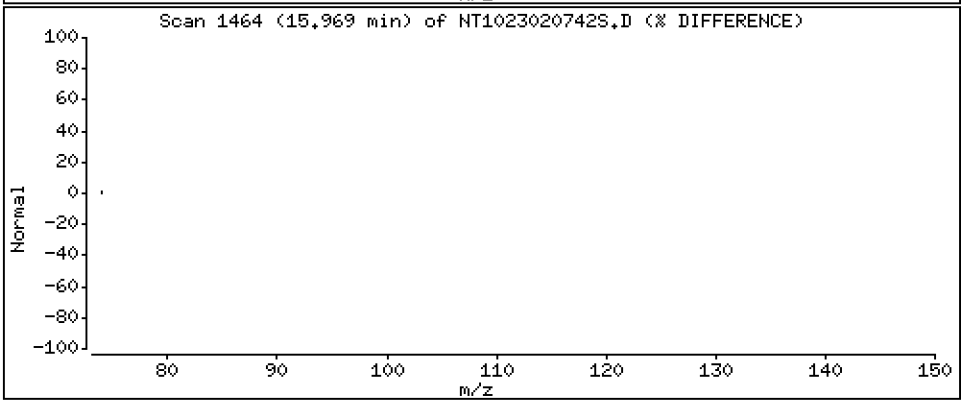












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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

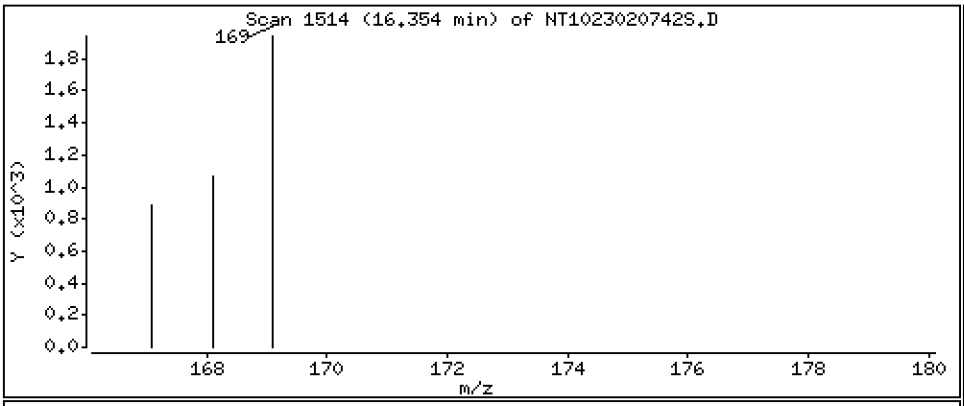
Operator: DSD

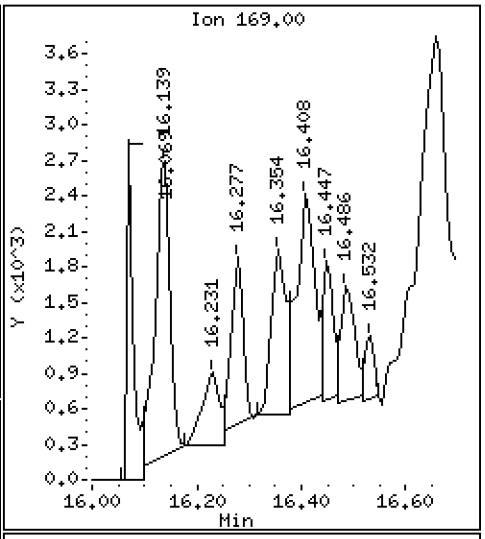
Column phase: ZB-5msi

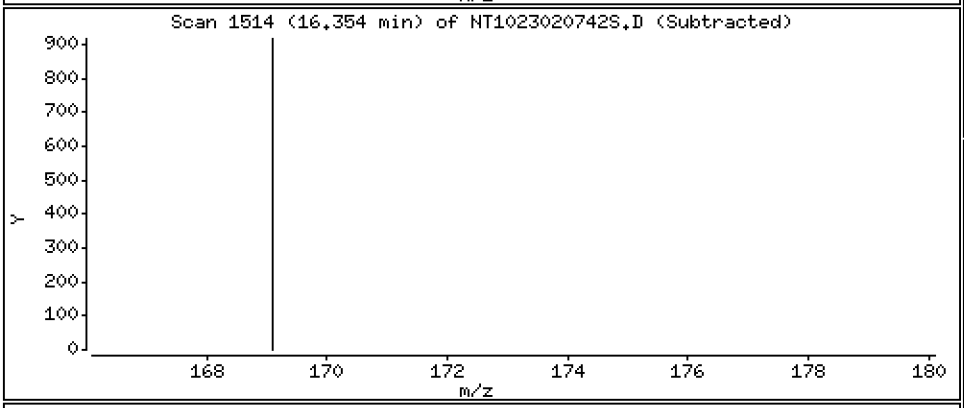
Column diameter: 0.25

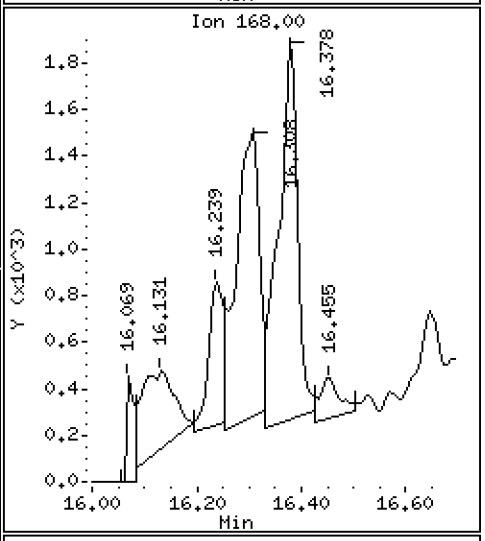
54 N-Nitrosodiphenylamine

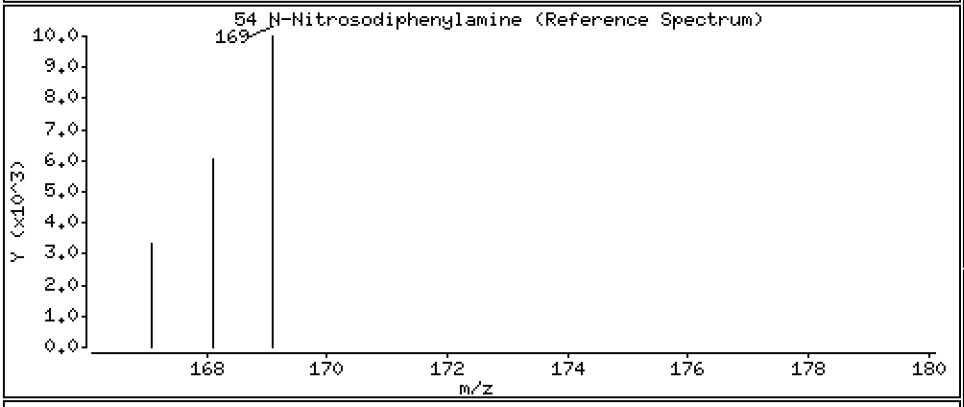
Concentration: 0.05127 ug/L

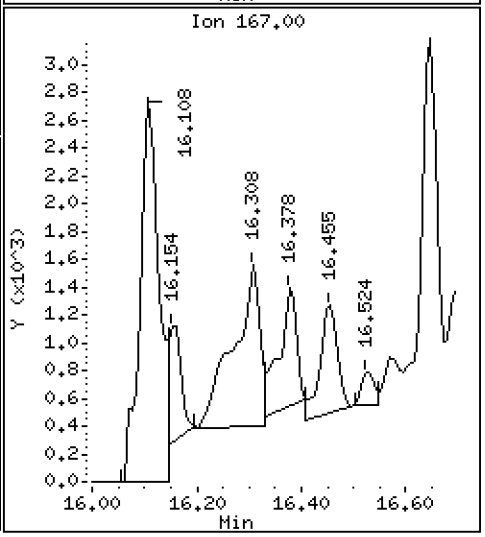


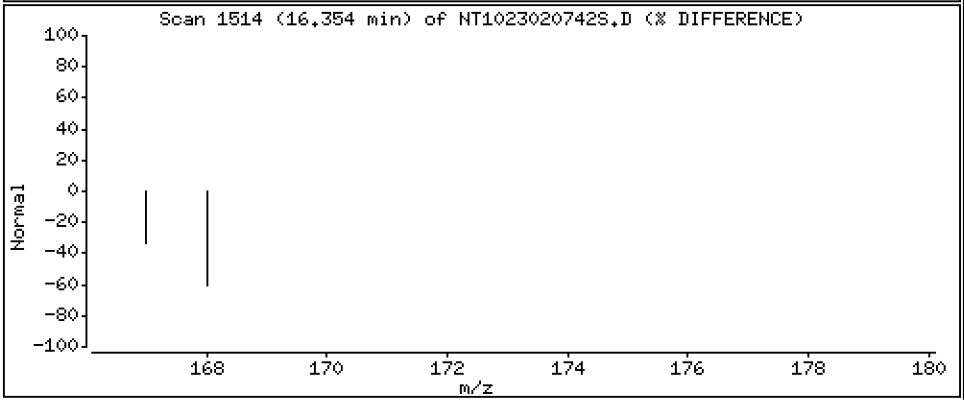












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Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

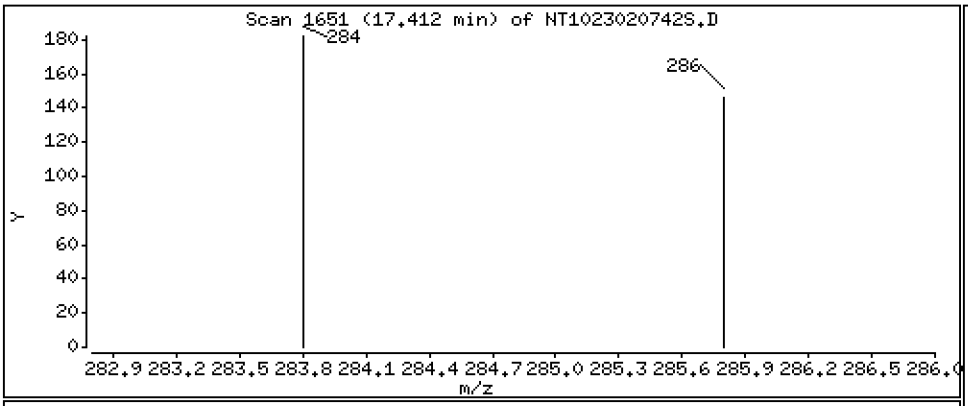
Operator: DSD

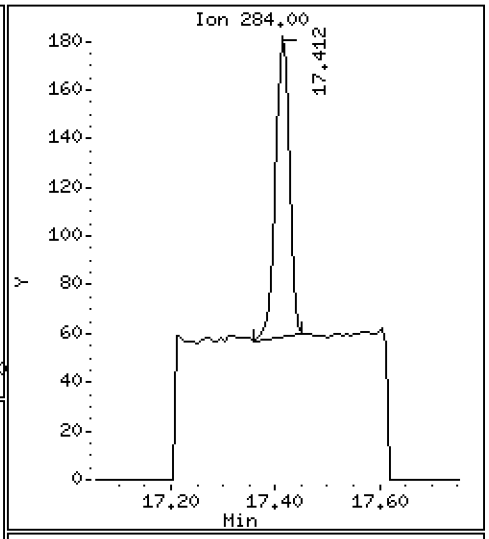
Column phase: ZB-5msi

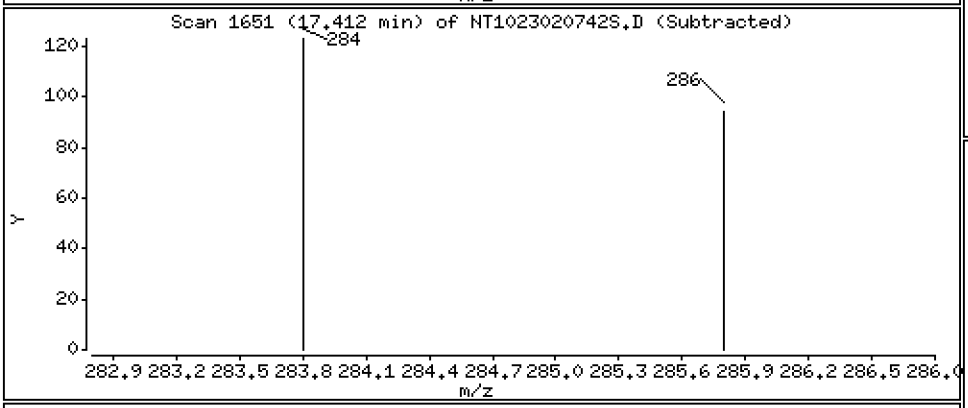
Column diameter: 0.25

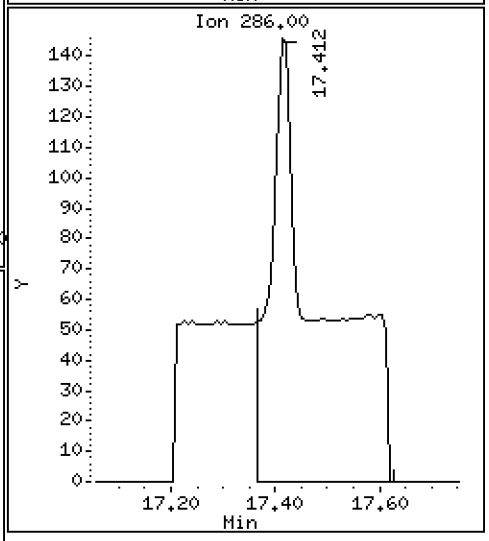
57 Hexachlorobenzene

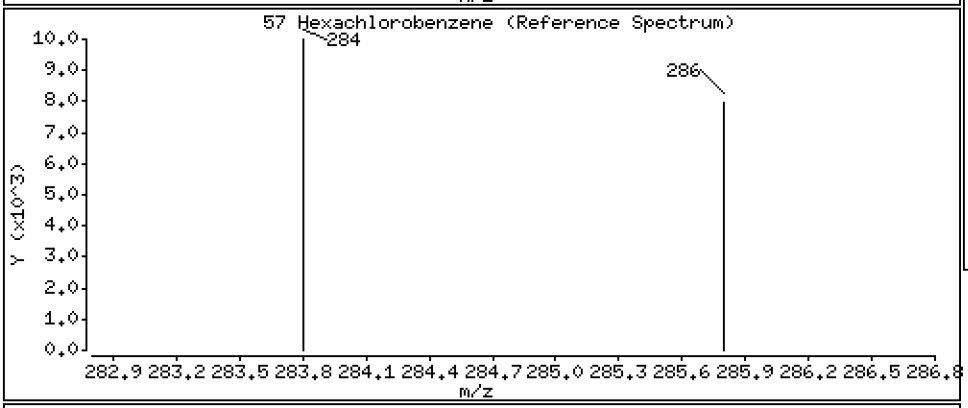
Concentration: 0.008992 ug/L

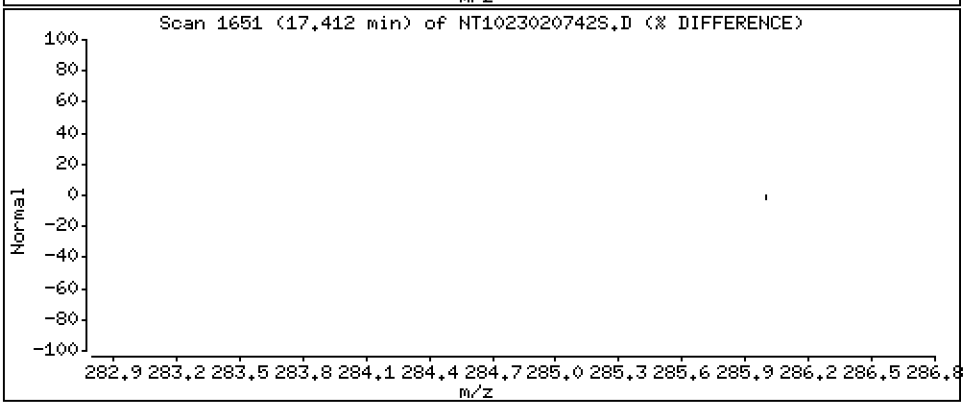












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 42S.D

Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

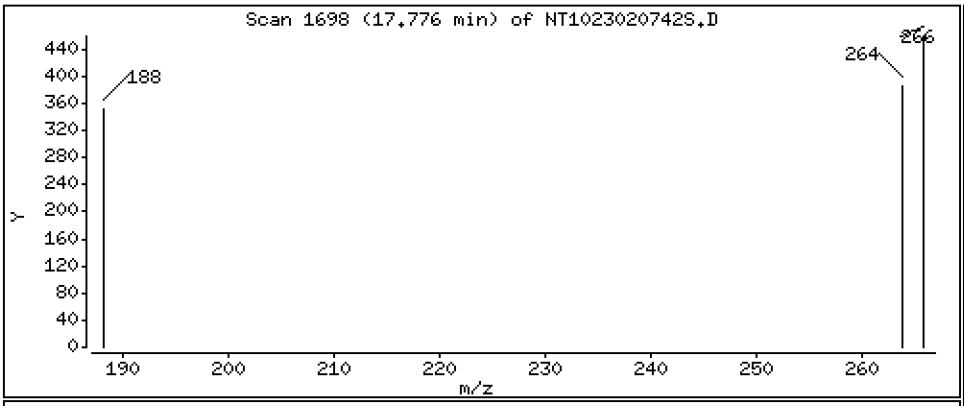
Operator: DSD

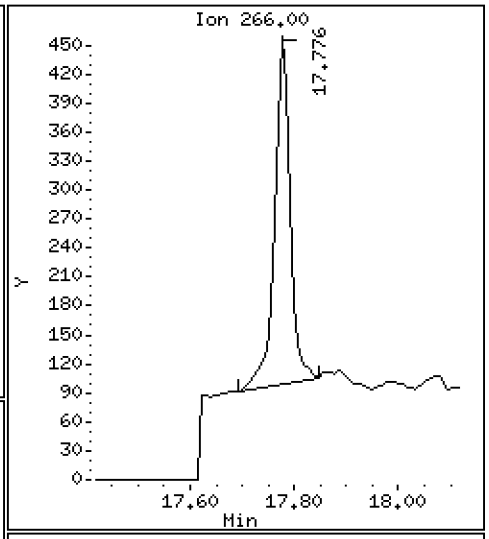
Column phase: ZB-5msi

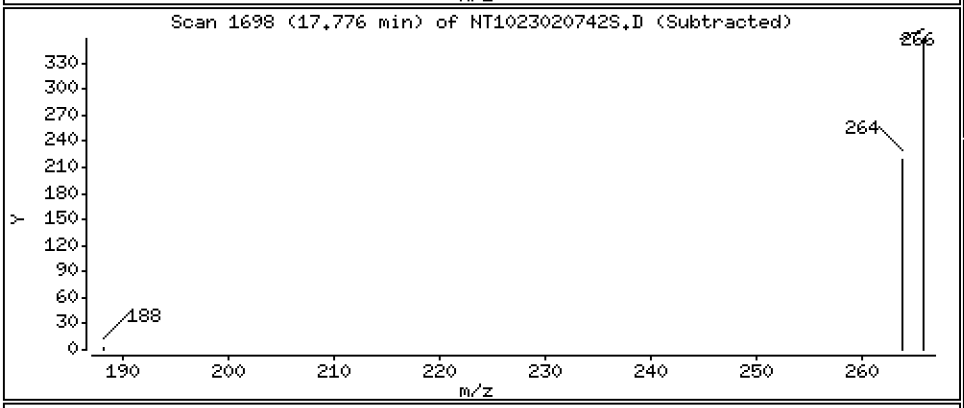
Column diameter: 0.25

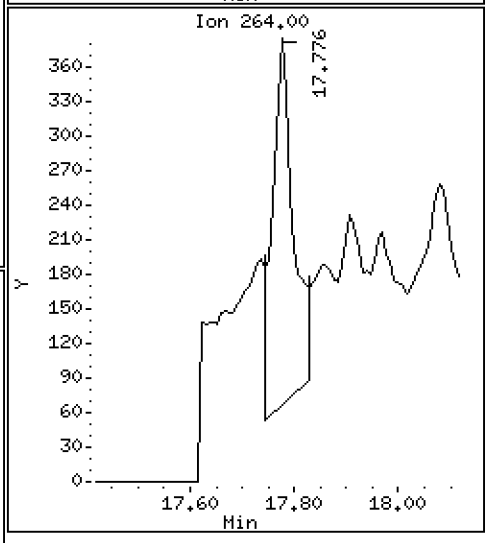
58 Pentachlorophenol

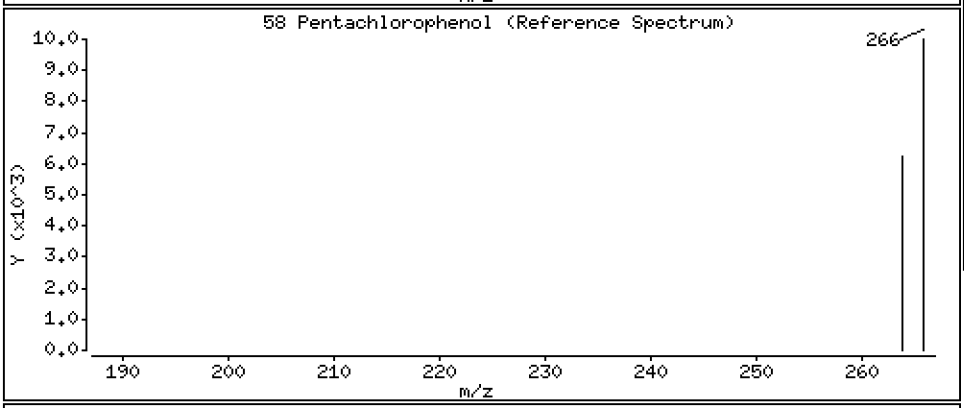
Concentration: 0.08745 ug/L

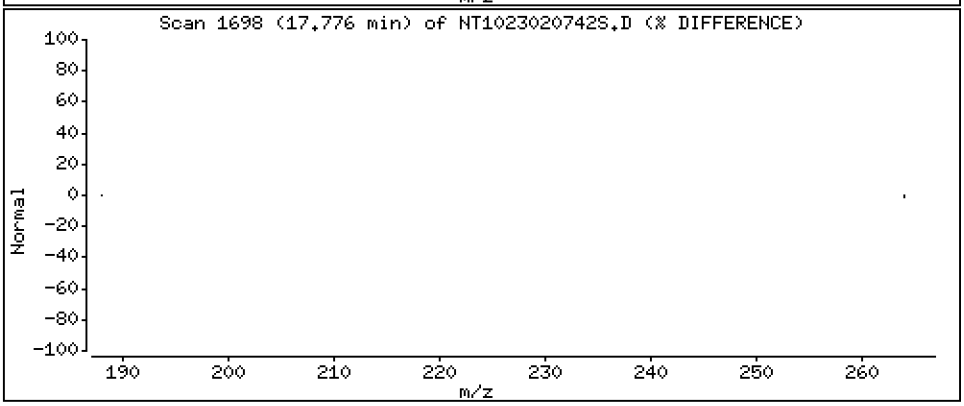












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 42S.D

Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

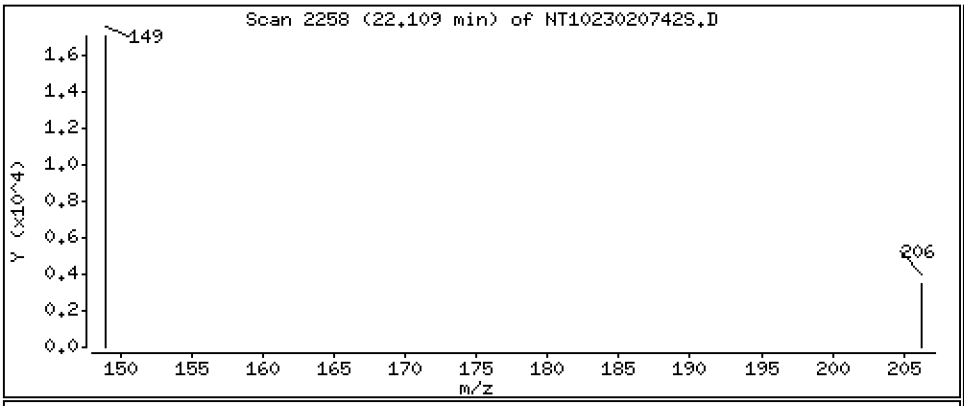
Operator: DSD

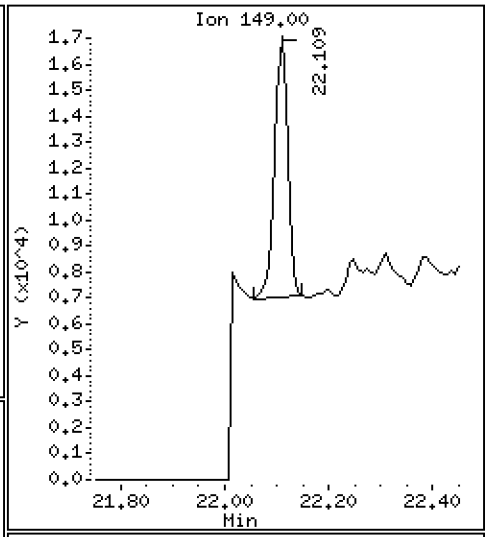
Column phase: ZB-5msi

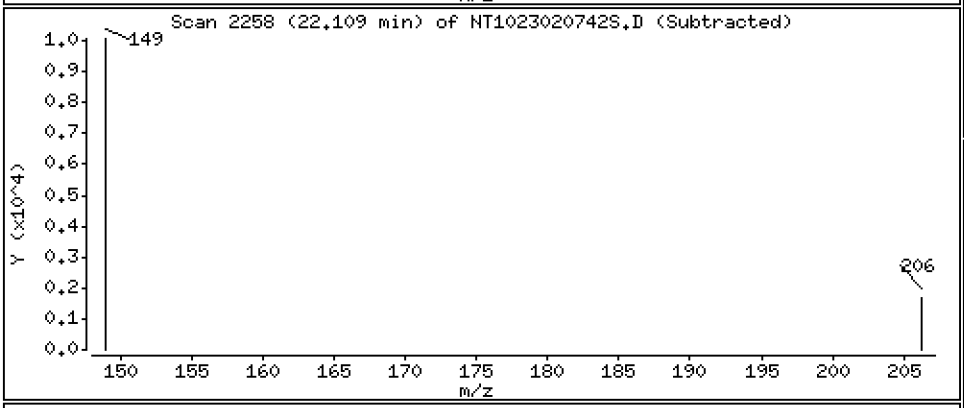
Column diameter: 0.25

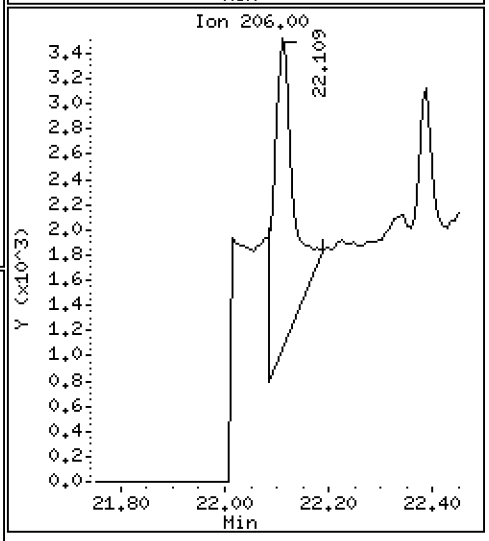
67 Butylbenzylphthalate

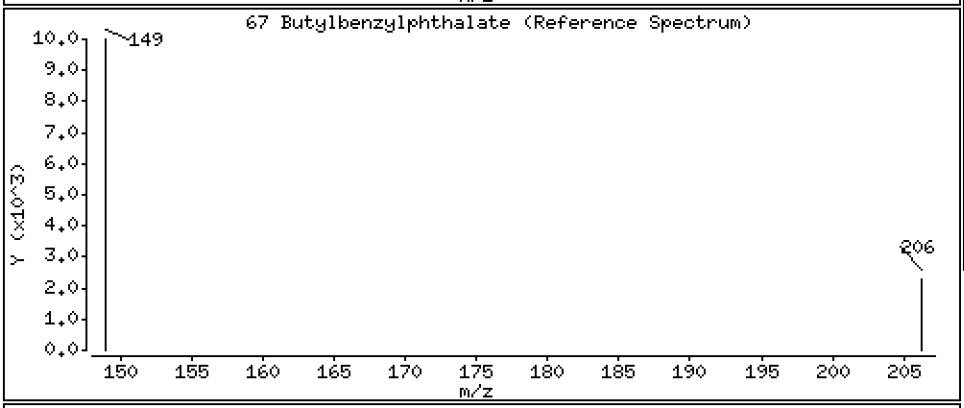
Concentration: 0.4249 ug/L

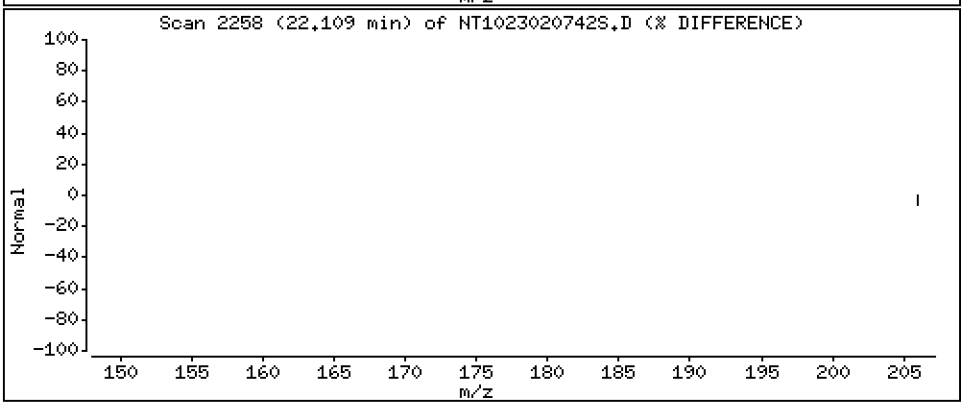












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207425.D

Date : 08-FEB-2023 13:46

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-02

Volume Injected (uL): 1.0

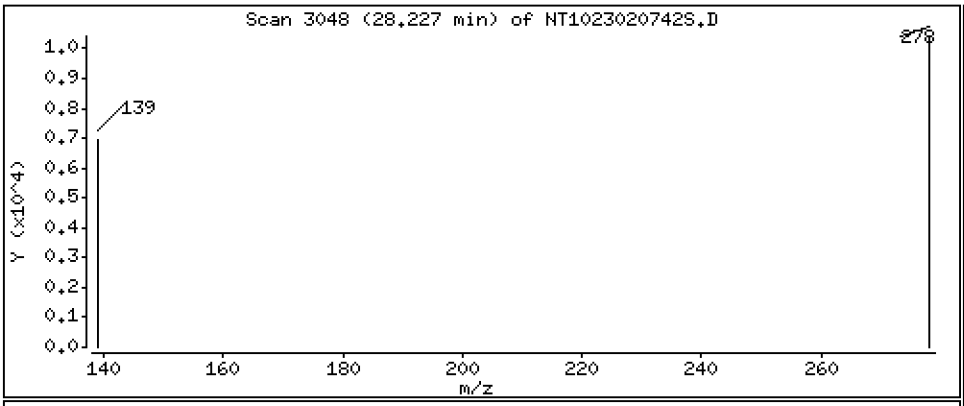
Operator: DSD

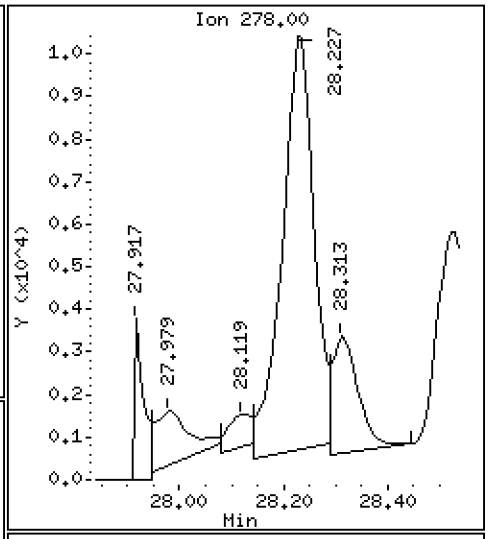
Column phase: ZB-5msi

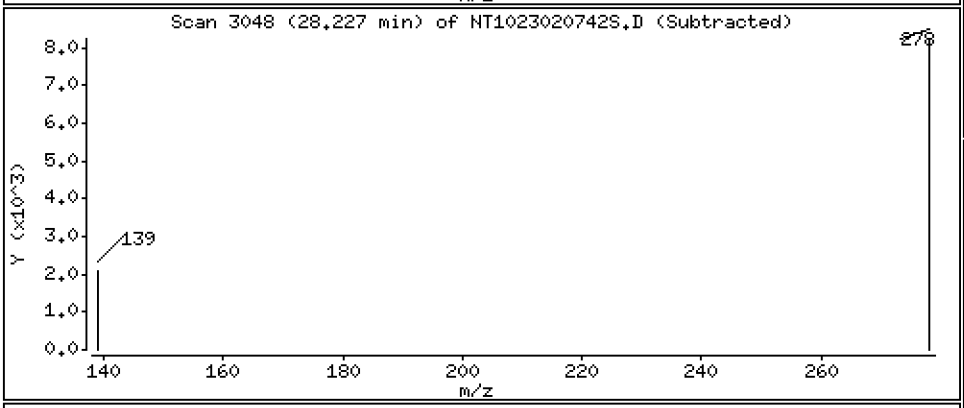
Column diameter: 0.25

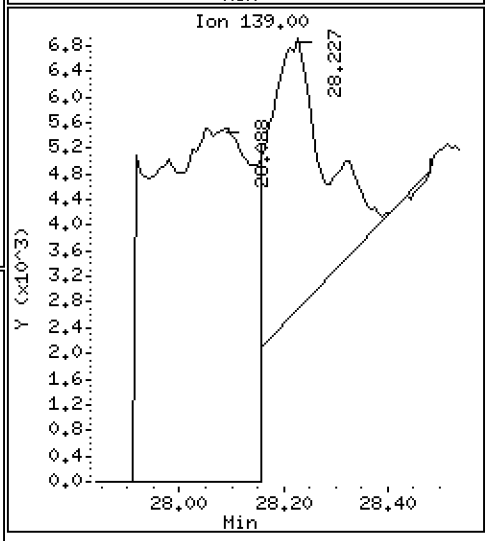
79 Dibenzo(a,h)anthracene

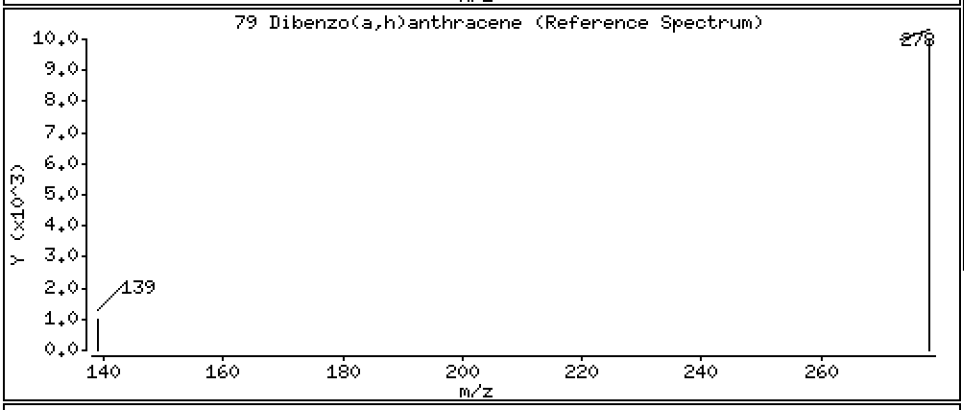
Concentration: 0.6012 ug/L

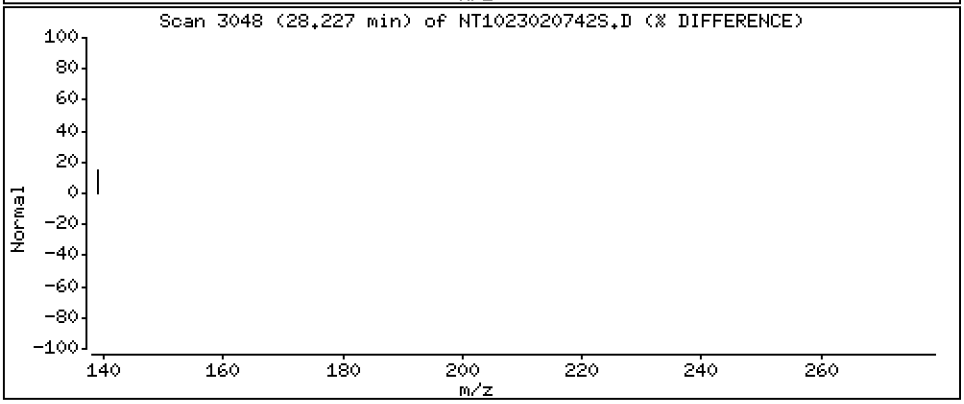












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020742S.D
Lab Smp Id: 22L0459-02
Inj Date : 08-FEB-2023 13:46 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : 22L0459-02
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.793	6.777	(0.757)	174529	5.68856	5.689(R)
3	Phenol	94	8.369	8.369	(0.933)	13963	0.30182	0.3018
7	1,3-Dichlorobenzene	146	8.902	8.902	(0.992)	345	0.00828	0.008281(M)
* 8	1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	100891	4.00000	
9	1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	1423	0.03493	0.03493(M)
11	Benzyl alcohol	79	9.244	9.236	(1.030)	9983	0.44234	0.4423
12	1,2-Dichlorobenzene	146	9.353	9.353	(1.042)	588	0.01479	0.01479
13	2-Methylphenol	108	9.477	9.461	(1.056)	1257	0.03980	0.03980
15	4-Methylphenol	108	9.741	9.733	(1.086)	10681	0.33157	0.3316
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.771	10.763	(0.943)	2381	0.06914	0.06914
24	Benzoic acid	105	10.915	10.924	(0.955)	17642	1.10257	1.103
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	352	0.01090	0.01090
* 27	Naphthalene-d8	136	11.427	11.427	(1.000)	392038	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	14.522	14.514	(0.968)	5260	0.12261	0.1226(M)
* 42	Acenaphthene-d10	162	15.009	15.009	(1.000)	184063	4.00000	
50	Diethylphthalate	149	15.968	15.960	(1.064)	28600	0.44268	0.4427(M)
54	N-Nitrosodiphenylamine	169	16.354	16.346	(0.907)	2894	0.05127	0.05127
57	Hexachlorobenzene	284	17.411	17.404	(0.966)	216	0.00899	0.008992(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.775	17.768	(0.986)	731	0.08745	0.08745(M)
*	59 Phenanthrene-d10	188	18.031	18.023	(1.000)	341544	4.00000	
$	66 Terphenyl-d14	244	21.187	21.164	(0.918)	307235	5.27657	5.277(R)
	67 Butylbenzylphthalate	149	22.109	22.101	(0.957)	16722	0.42487	0.4249(M)
*	69 Chrysene-d12	240	23.092	23.069	(1.000)	262324	4.00000	
*	77 Perylene-d12	264	25.670	25.631	(1.000)	250582	4.00000	(H)
	79 Dibenzo(a,h)anthracene	278	28.227	28.188	(1.104)	42223	0.60123	0.6012(H)
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020742S.D
Lab Smp Id: 22L0459-02
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	100891	-18.37
27 Naphthalene-d8	454738	227369	909476	392038	-13.79
42 Acenaphthene-d10	223117	111559	446234	184063	-17.50
59 Phenanthrene-d10	408770	204385	817540	341544	-16.45
69 Chrysene-d12	339328	169664	678656	262324	-22.69
77 Perylene-d12	382671	191336	765342	250582	-34.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	-0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	-0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.01	-0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.03	0.04
69 Chrysene-d12	23.07	22.57	23.57	23.09	0.10
77 Perylene-d12	25.63	25.13	26.13	25.67	0.15

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020742S.D

Lab ID: 22L0459-02
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 13:46

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

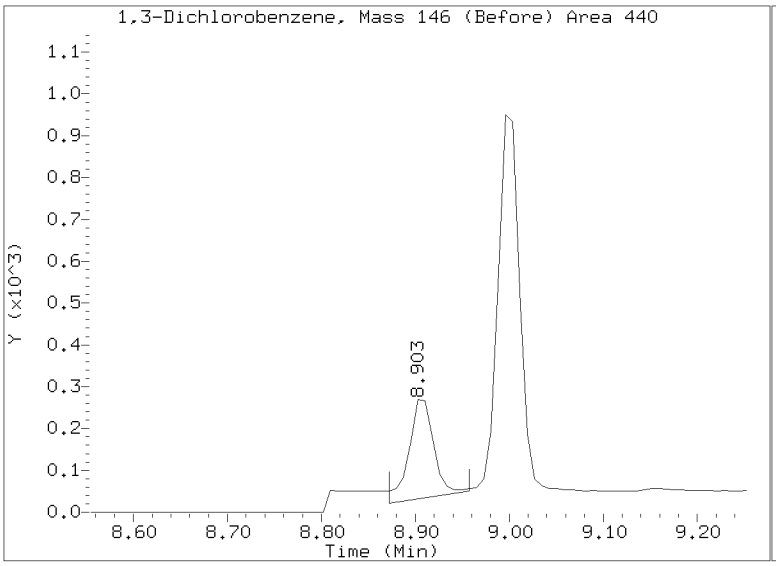
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

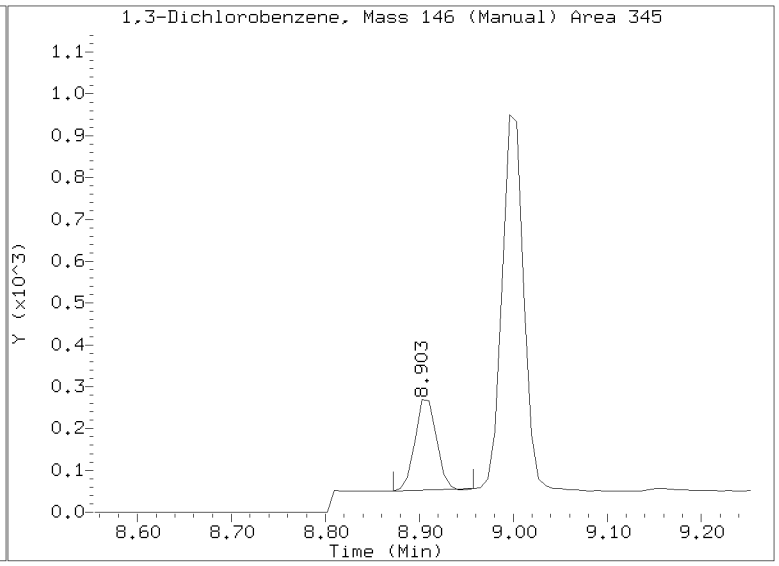
Exception: 1,2,4-Trichlorobenzene 0.0010

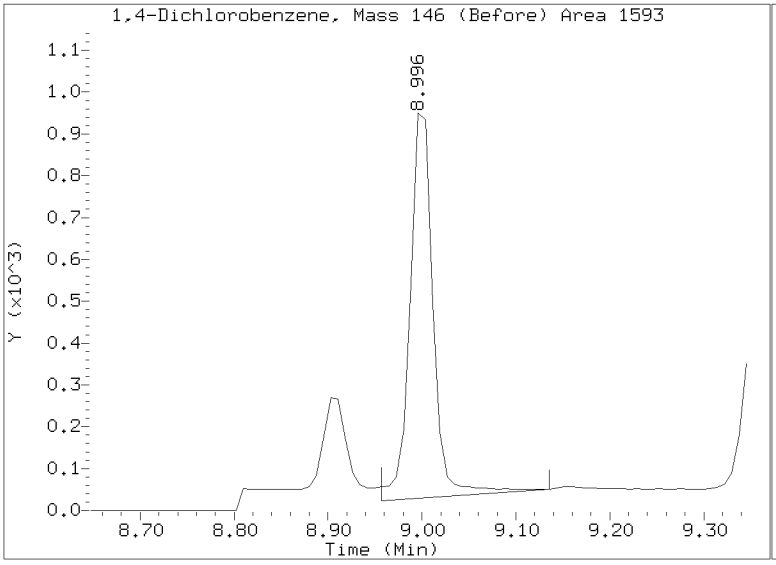
* Only compounds listed in the work order have been verified by the analyst *

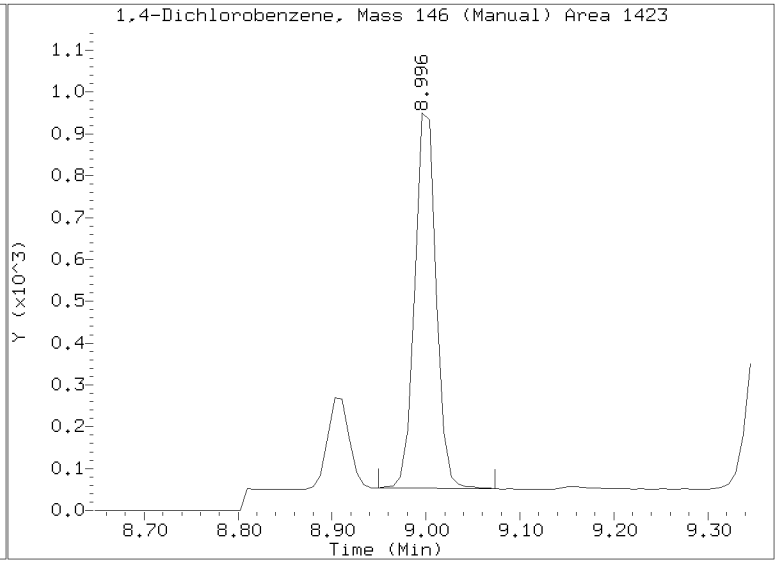
Quant Ion Manual Peak Adjustment Report

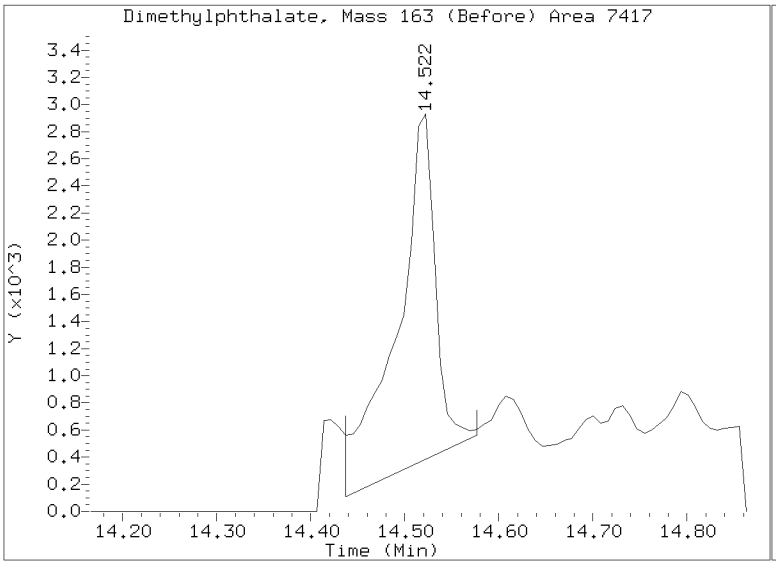
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020742S.D
Injection Date: 08-FEB-2023 13:46
Lab ID:22L0459-02 Client ID:
Report Date: 02/09/2023 14:59

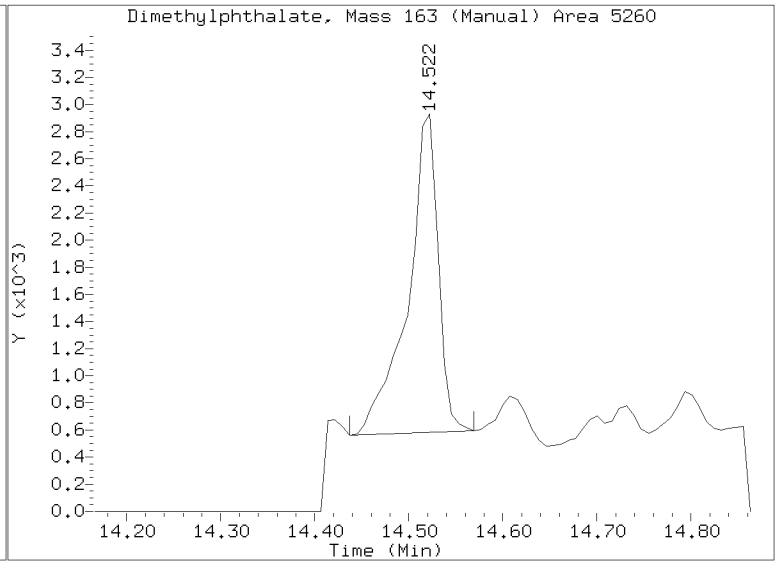












Quant Ion Manual Peak Adjustment Report

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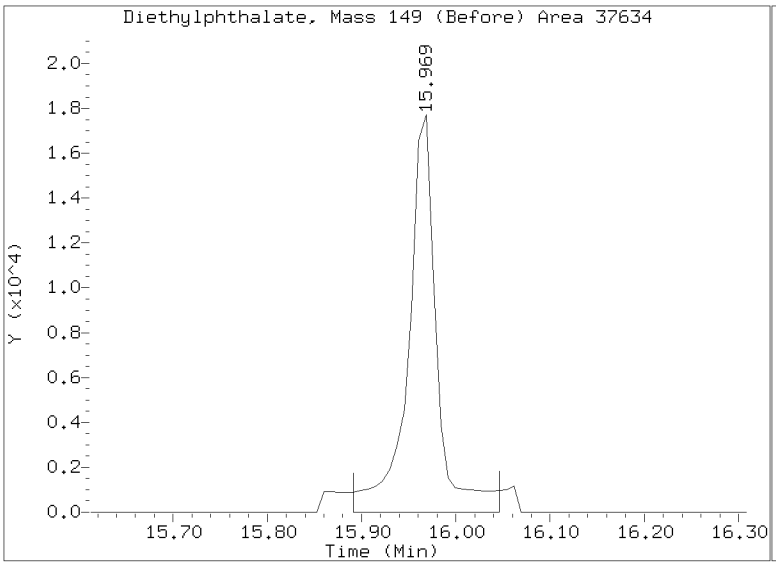
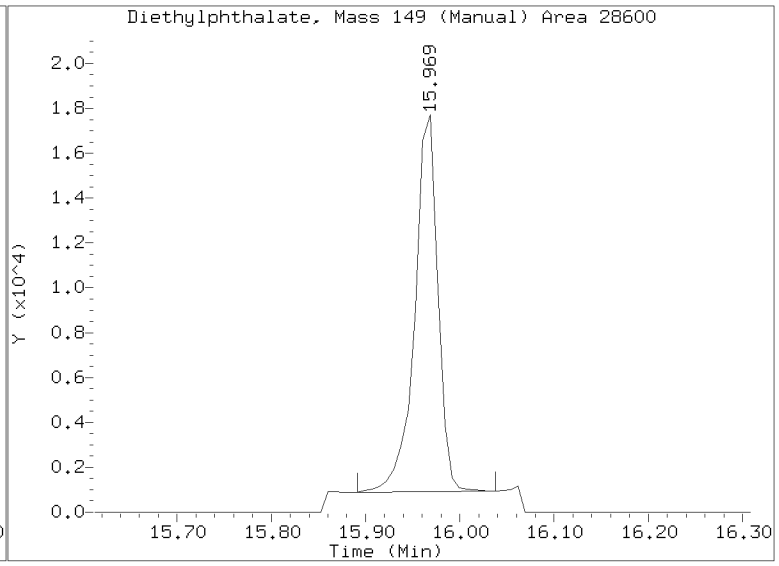
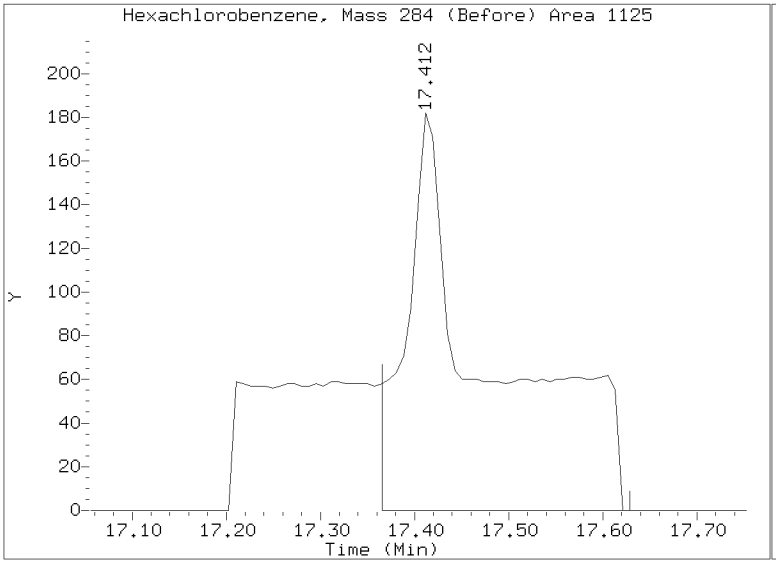
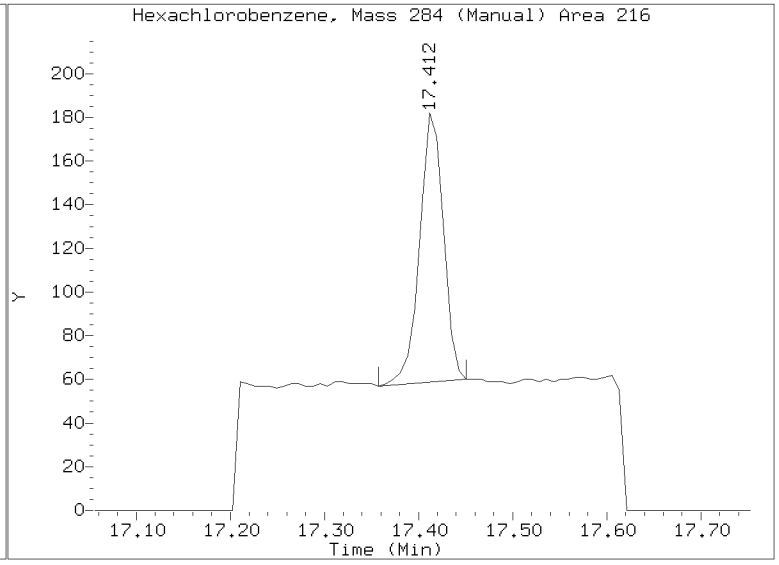
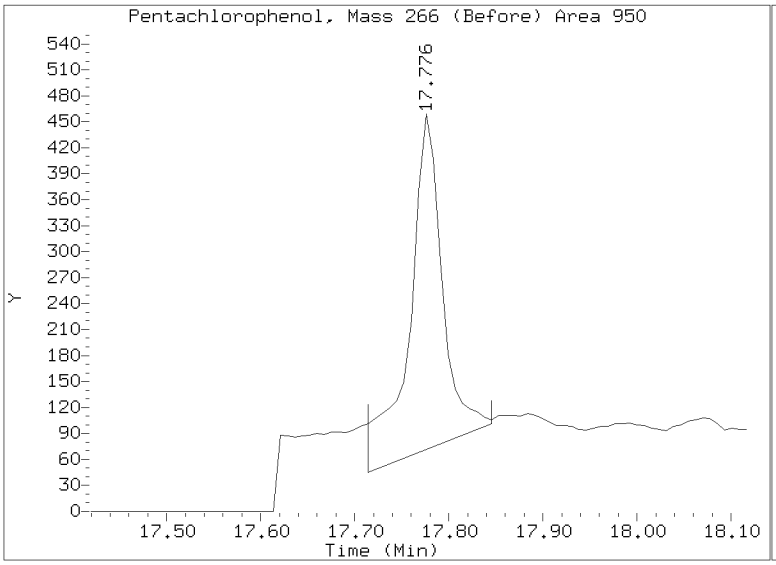
Injection Date: 08-FEB-2023 13:46
Lab ID:22L0459-02 Client ID:
Report Date: 02/09/2023 14:59

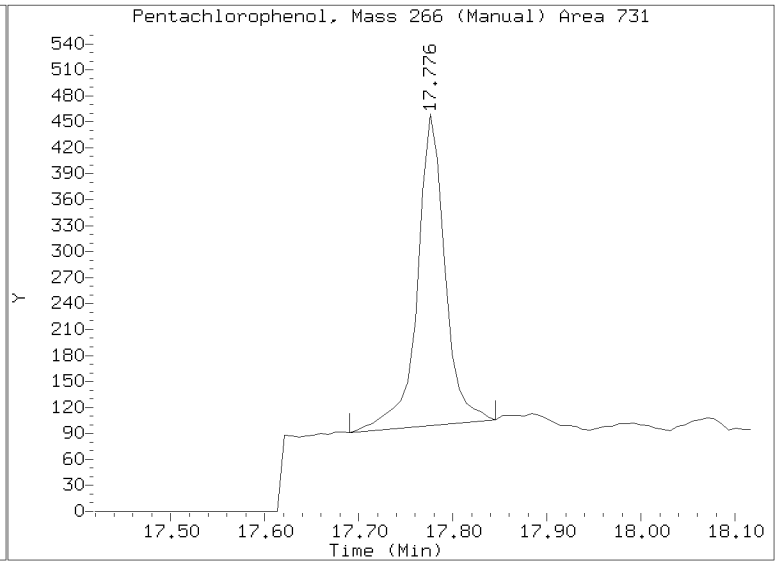






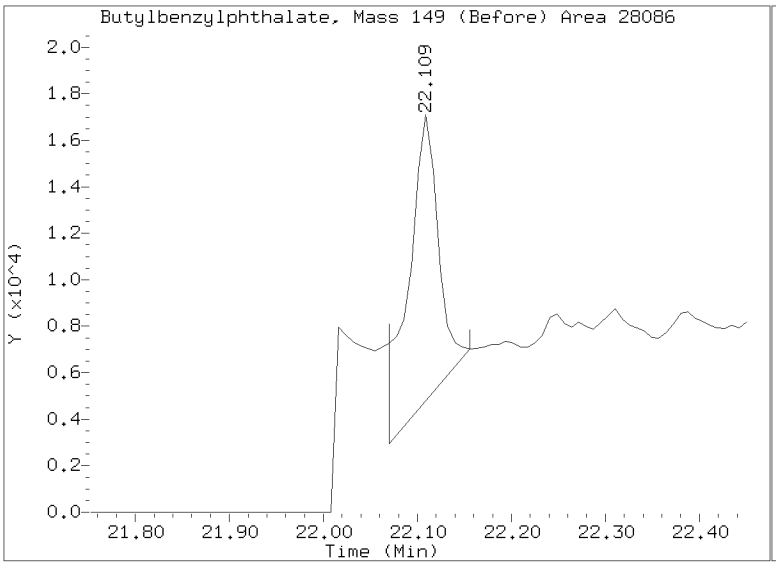


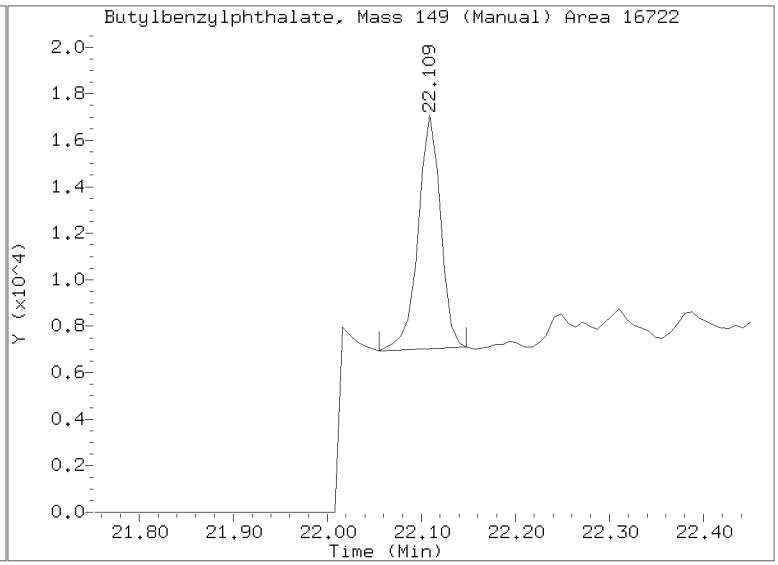




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020742S.D
Injection Date: 08-FEB-2023 13:46
Lab ID:22L0459-02 Client ID:
Report Date: 02/09/2023 14:59





Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1039C

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-03 A	SDG:	22L0459
Sampled:	12/16/22 09:50	Prepared:	01/05/23 16:13	File ID:	NT1023020743S.D
% Solids:	55.02	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/08/23 14:25
Batch:	BLA0064	Sequence:	SLB0106	Initial/Final:	18.19 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GB00019

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	5.6		0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	2.4	J	0.7	5.0
100-51-6	Benzyl Alcohol	1	41.6		2.5	20.0
65-85-0	Benzoic acid	1	91.0	J	13.4	99.9
105-67-9	2,4-Dimethylphenol	1	5.4	J	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	7.8		1.3	5.0
87-86-5	Pentachlorophenol	1	11.0	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.39	505	67.4	27 - 120	
p-Terphenyl-d14	499.59	442	88.5	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207438.D

Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

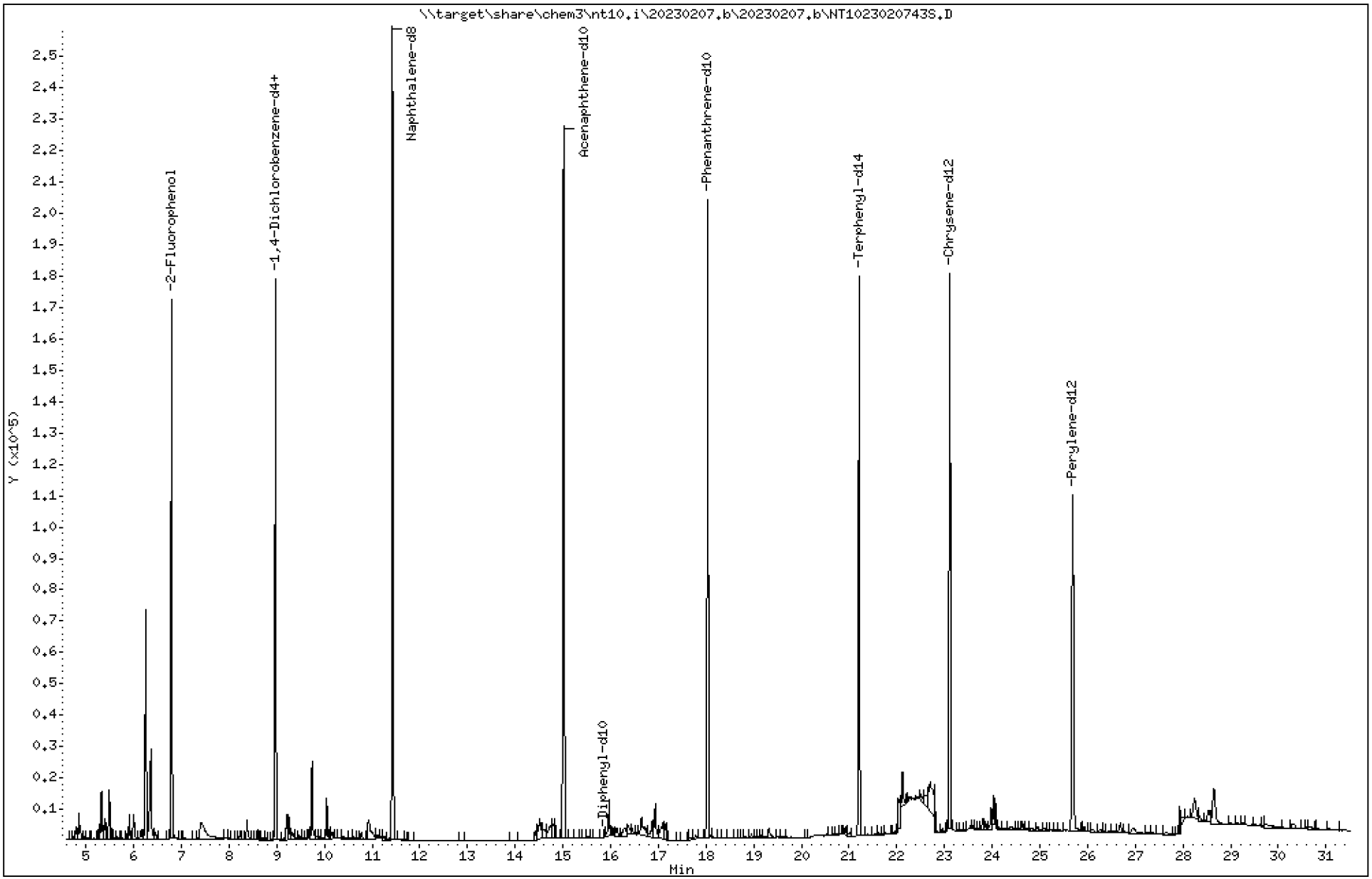
Sample Info: 22L0459-03

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

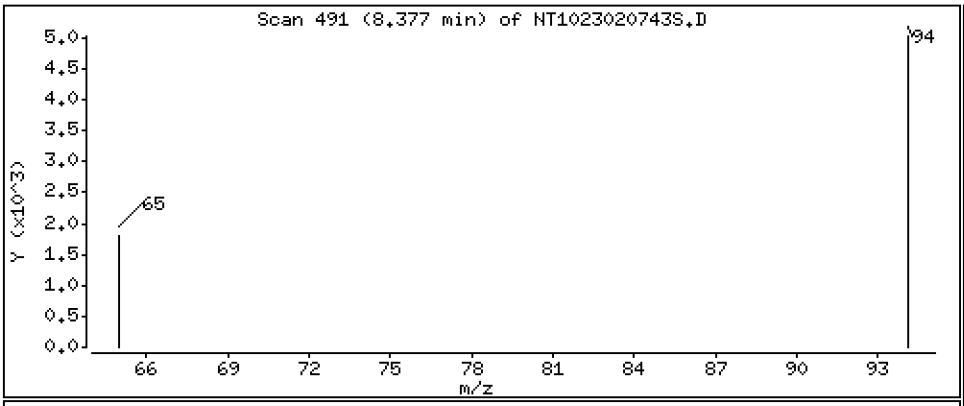
Operator: DSD

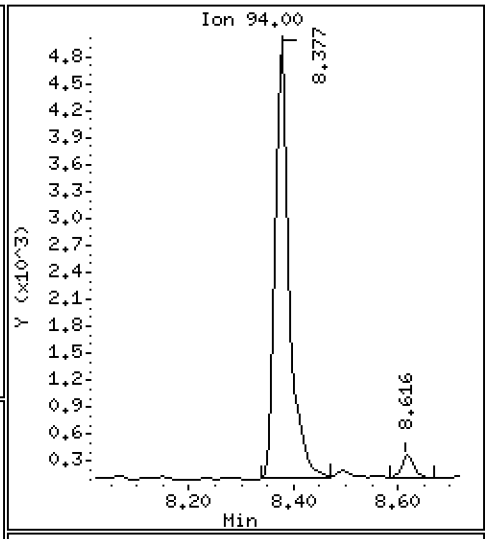
Column phase: ZB-5msi

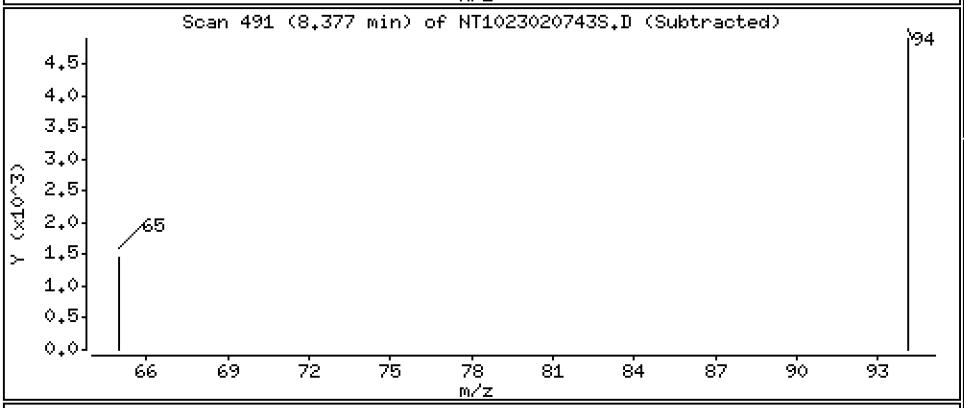
Column diameter: 0.25

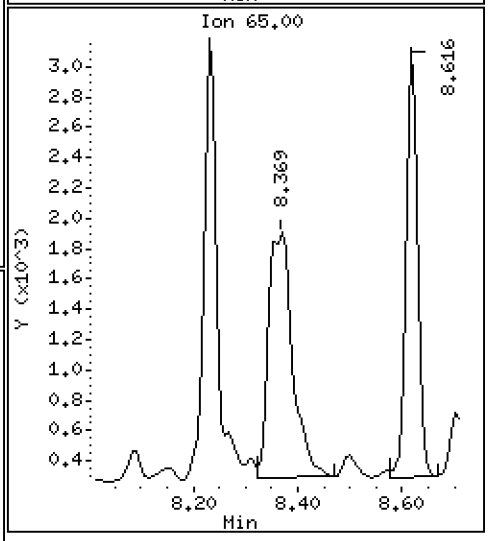
3 Phenol

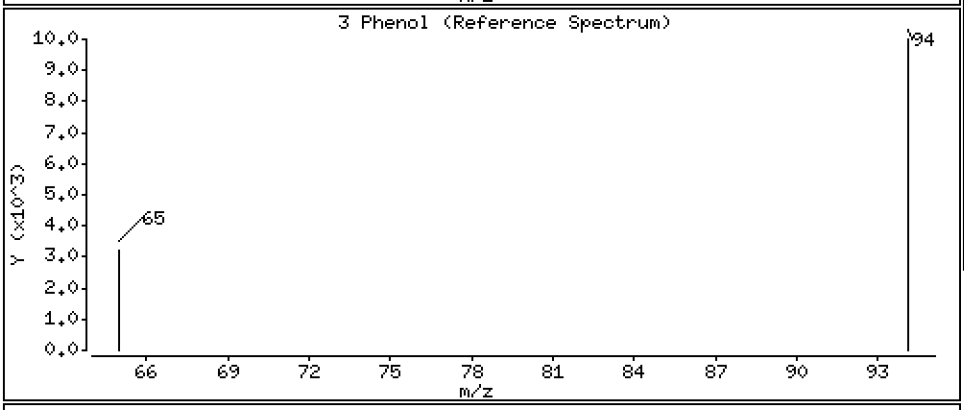
Concentration: 0.1857 ug/L

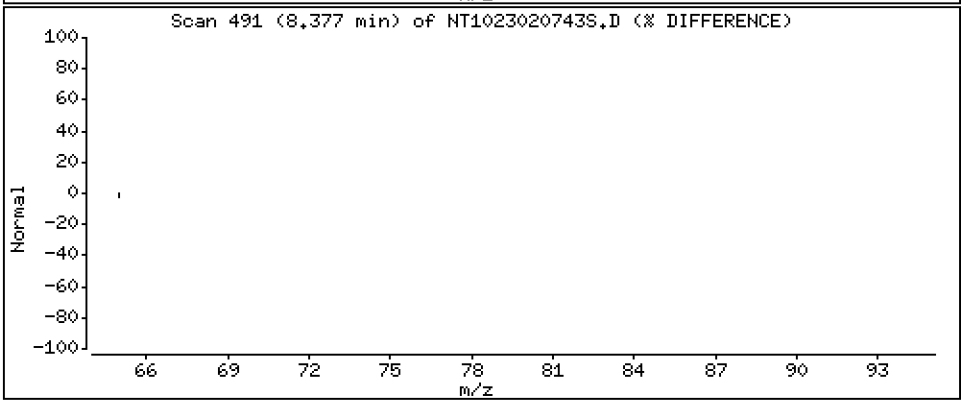












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Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

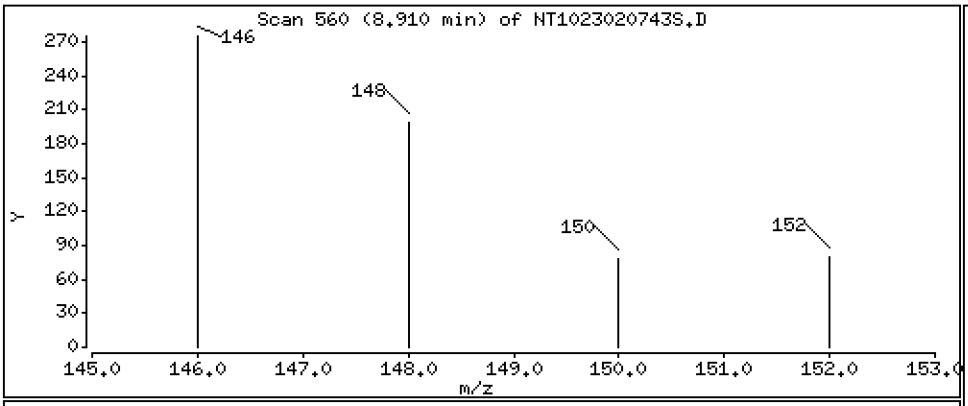
Operator: DSD

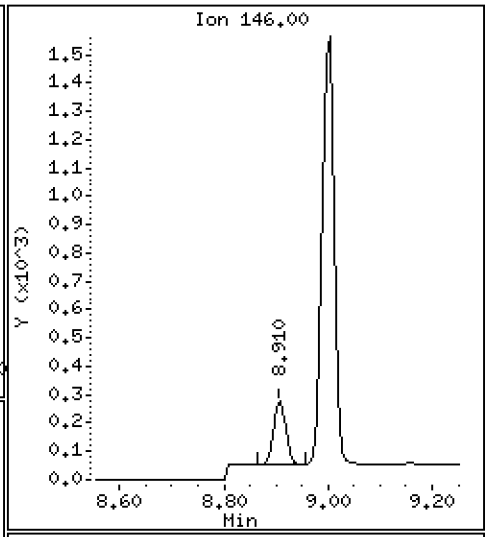
Column phase: ZB-5msi

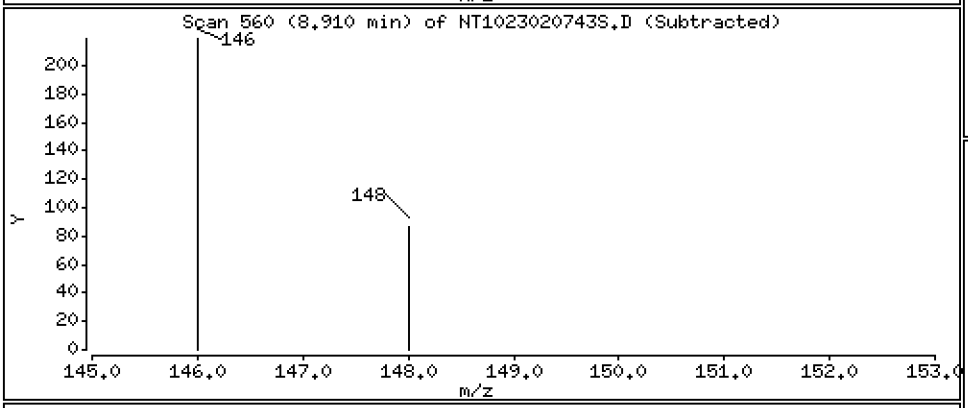
Column diameter: 0.25

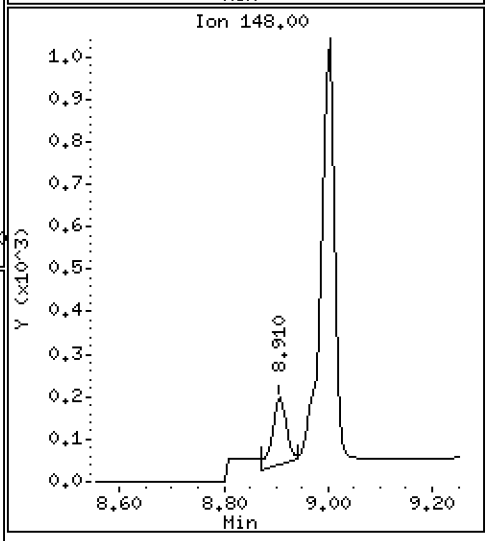
7 1,3-Dichlorobenzene

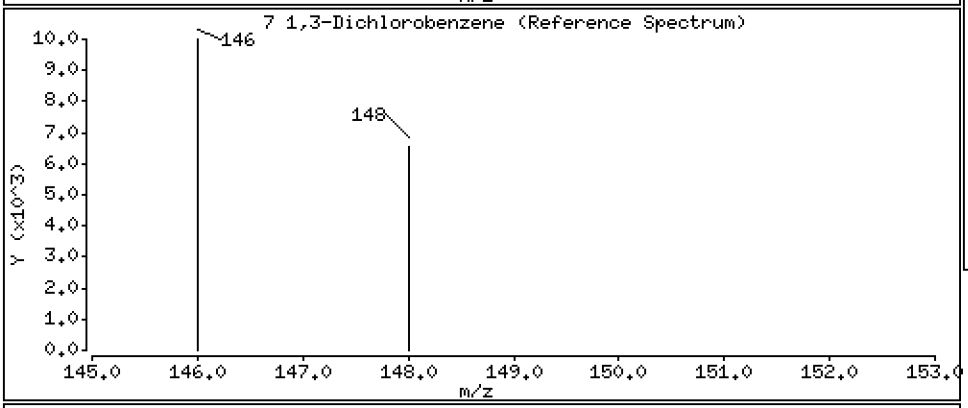
Concentration: 0.007938 ug/L

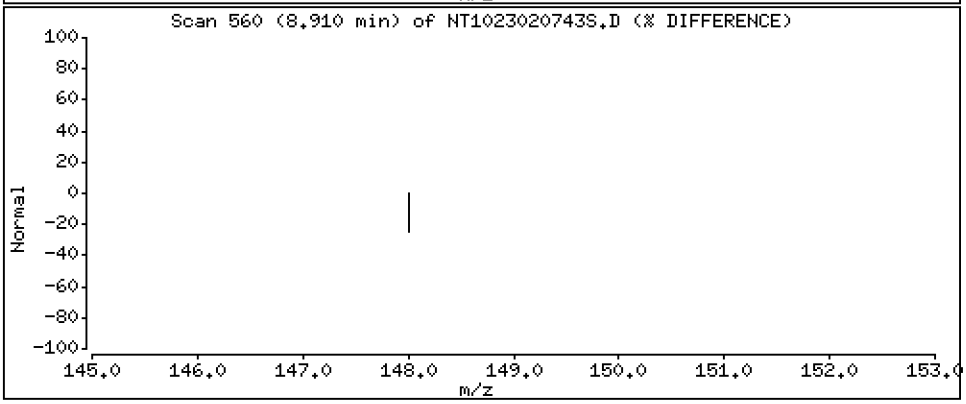












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Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

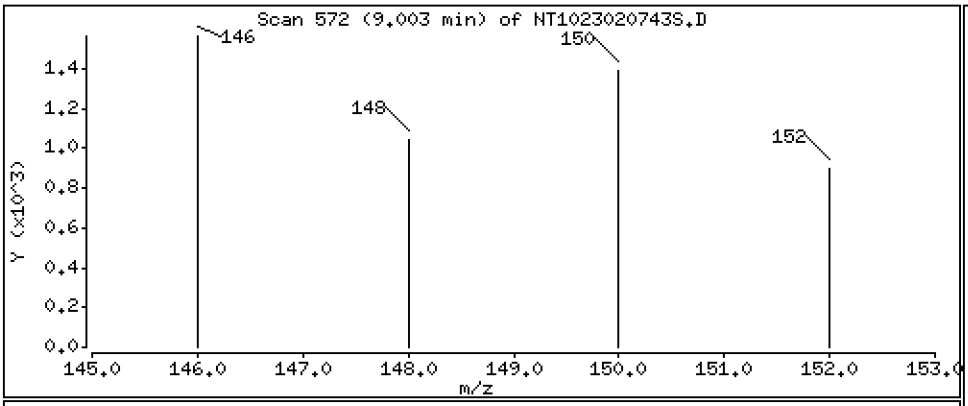
Operator: DSD

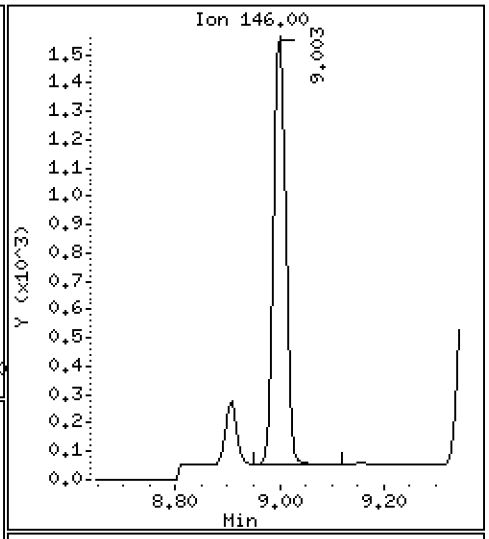
Column phase: ZB-5msi

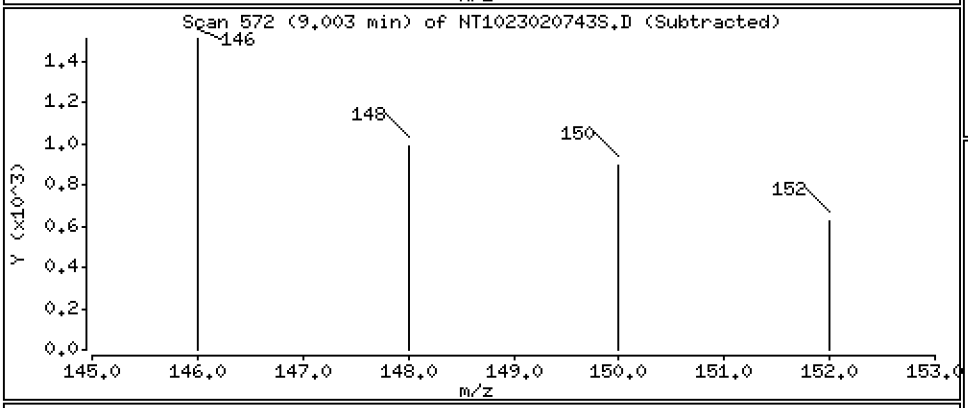
Column diameter: 0.25

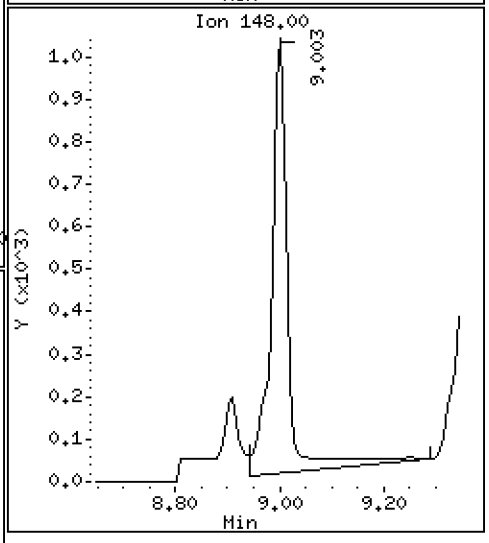
9 1,4-Dichlorobenzene

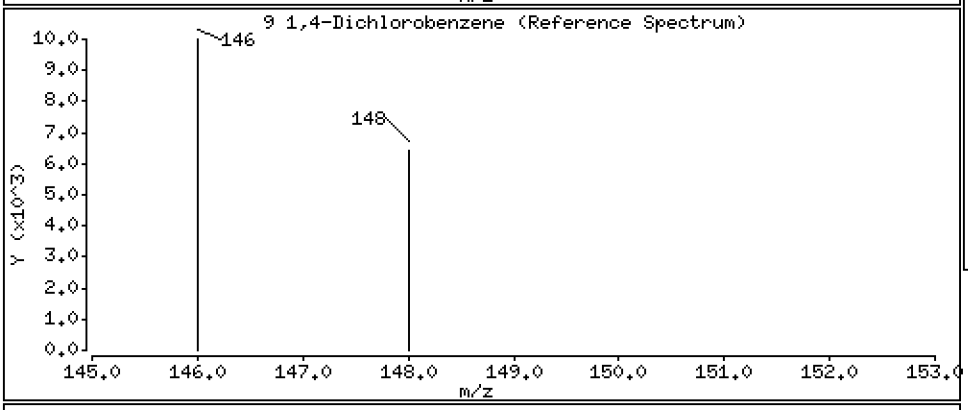
Concentration: 0.05555 ug/L

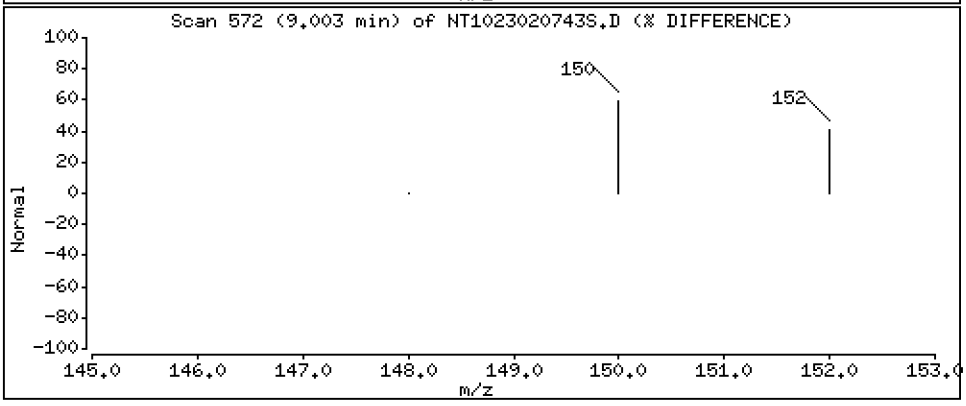












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Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

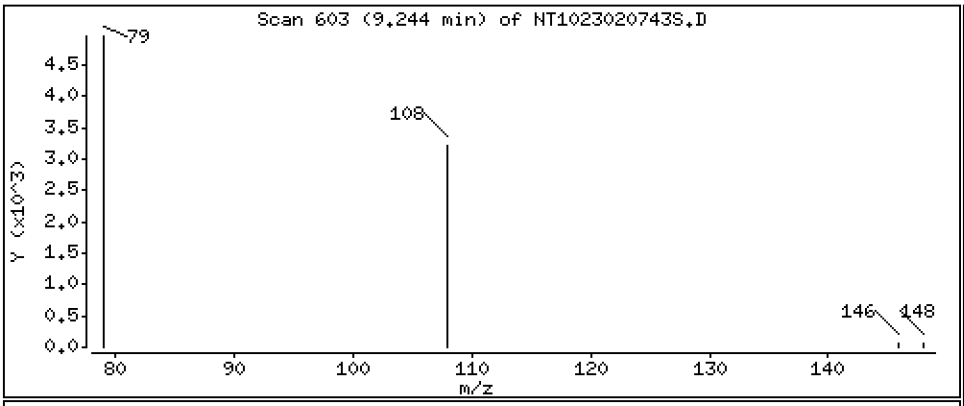
Operator: DSD

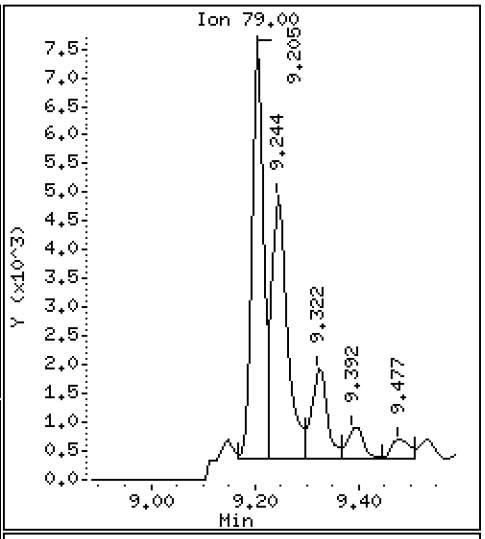
Column phase: ZB-5msi

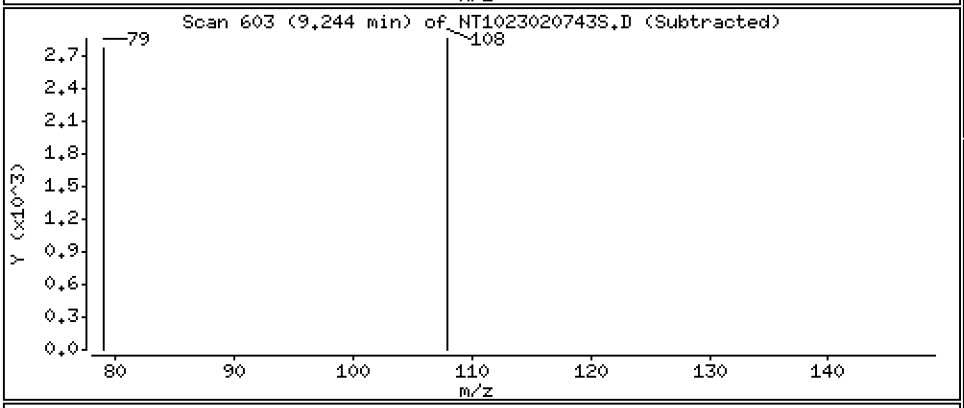
Column diameter: 0.25

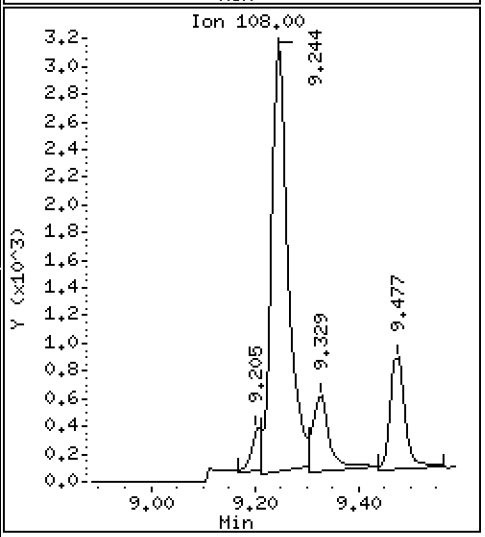
11 Benzyl alcohol

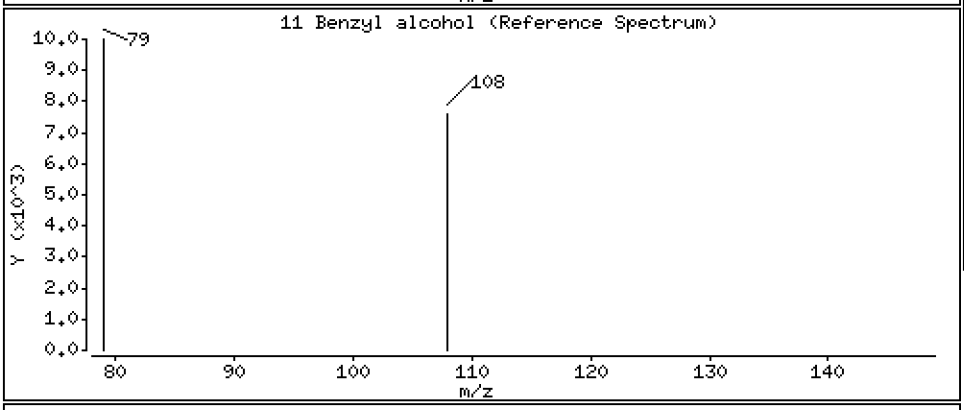
Concentration: 0.4160 ug/L

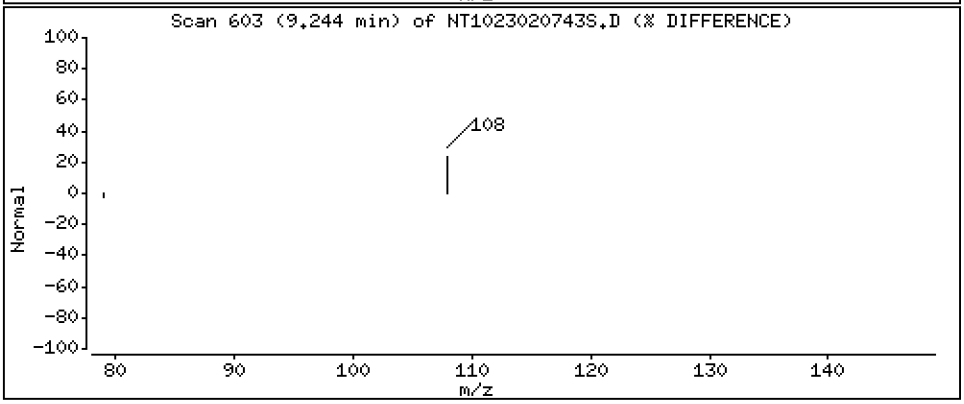












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Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

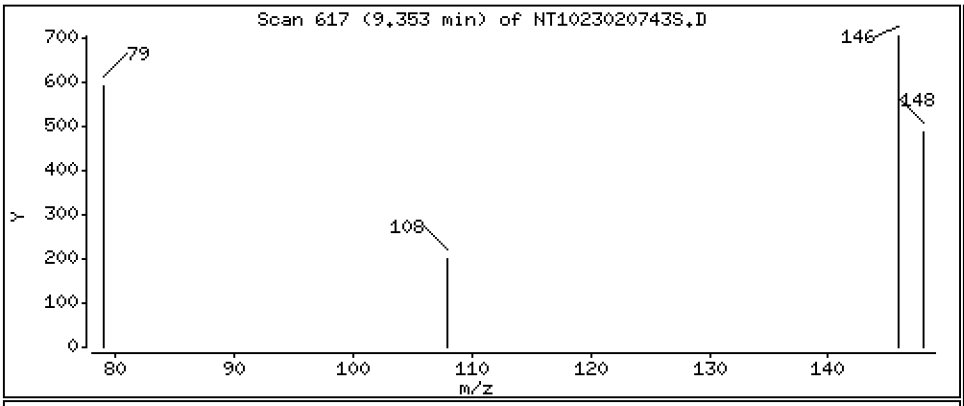
Operator: DSD

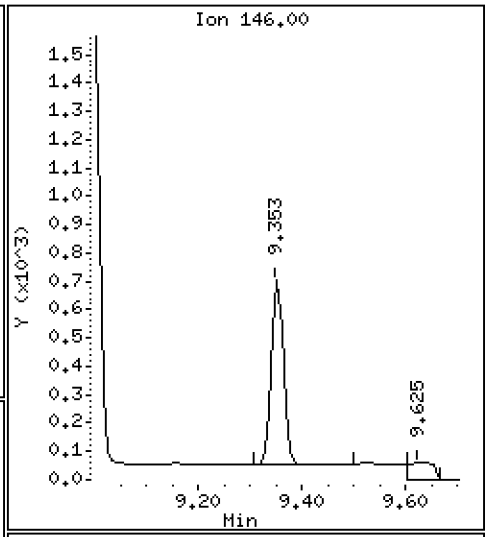
Column phase: ZB-5msi

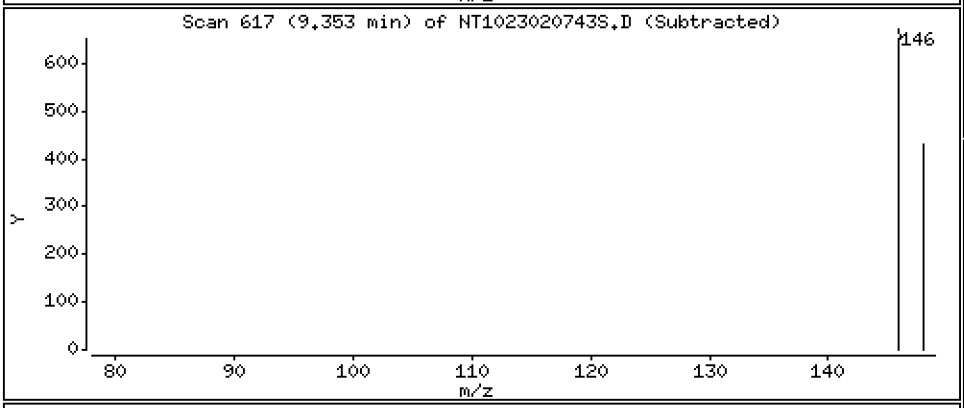
Column diameter: 0.25

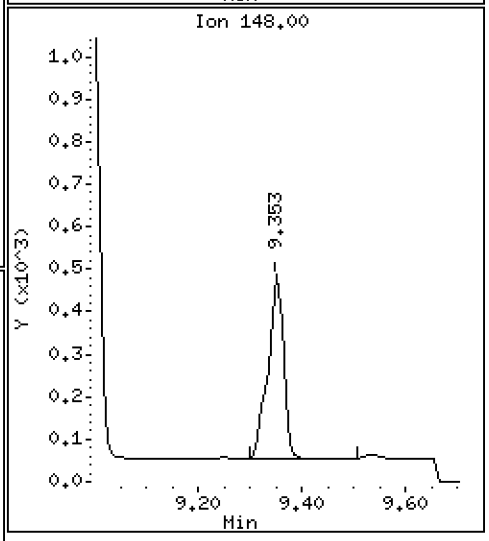
12 1,2-Dichlorobenzene

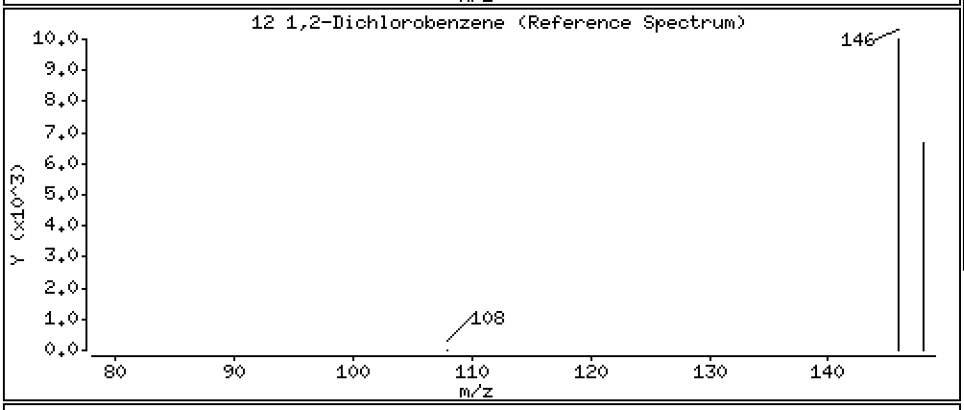
Concentration: 0.02406 ug/L

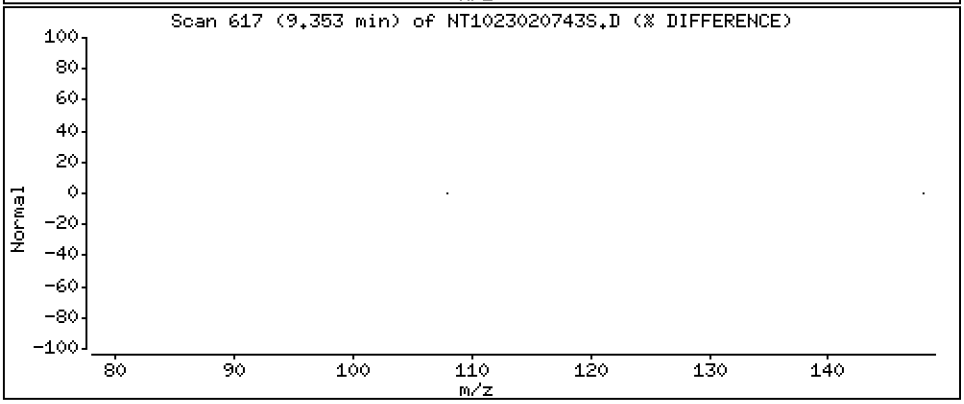












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Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

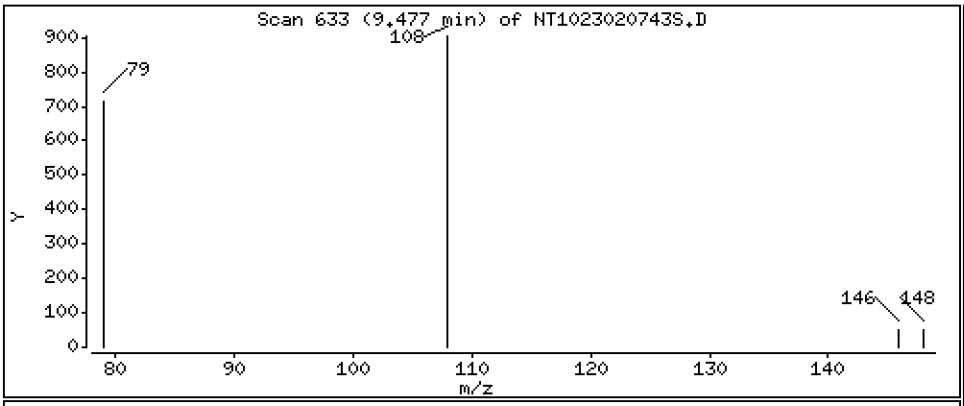
Operator: DSD

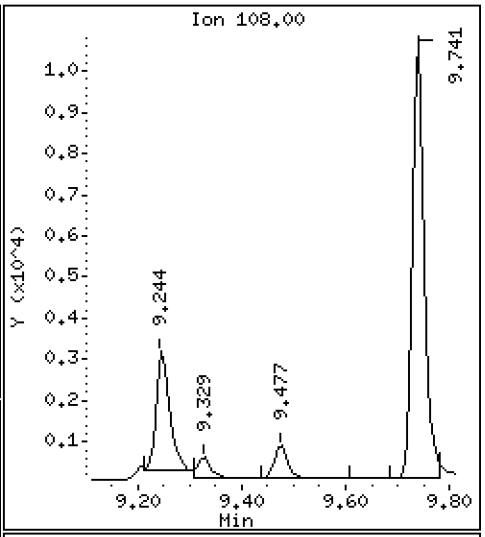
Column phase: ZB-5msi

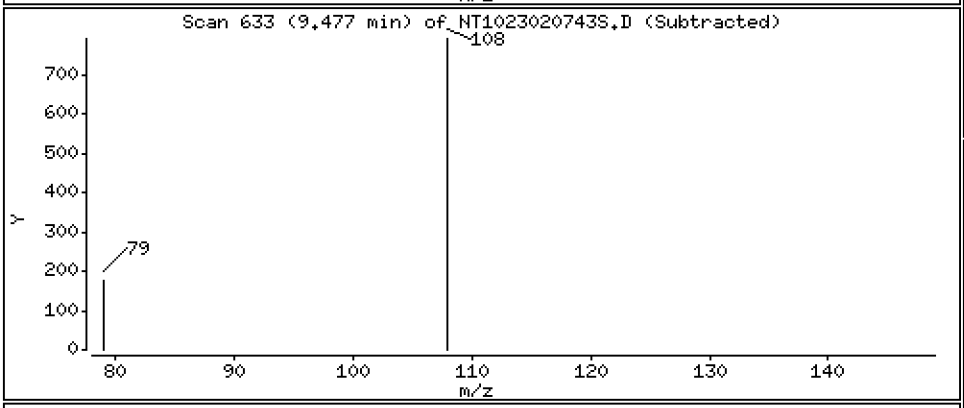
Column diameter: 0.25

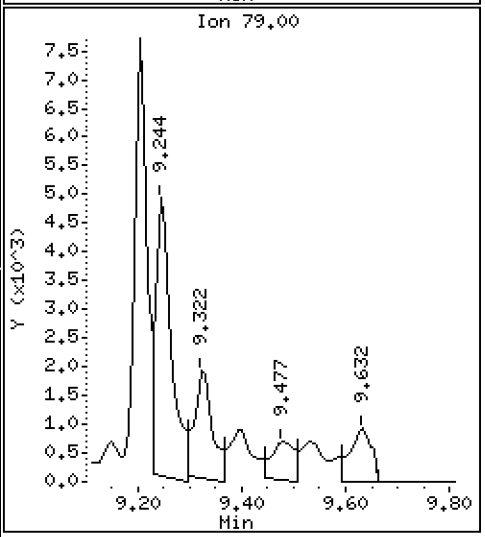
13 2-Methylphenol

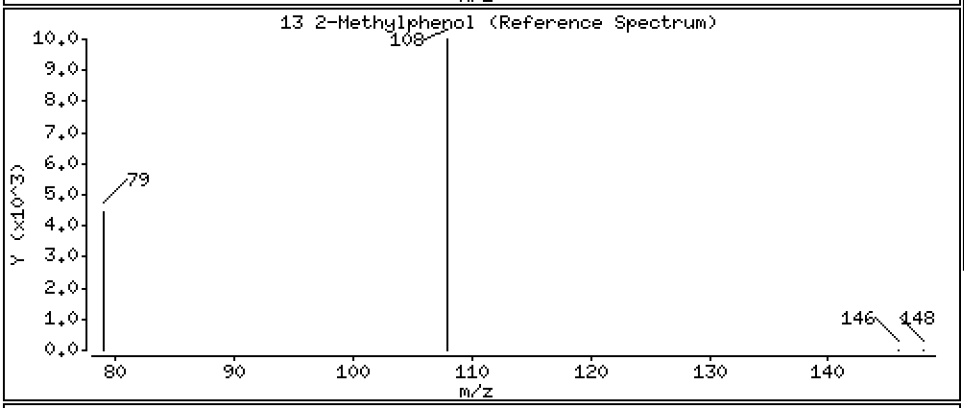
Concentration: 0.04449 ug/L

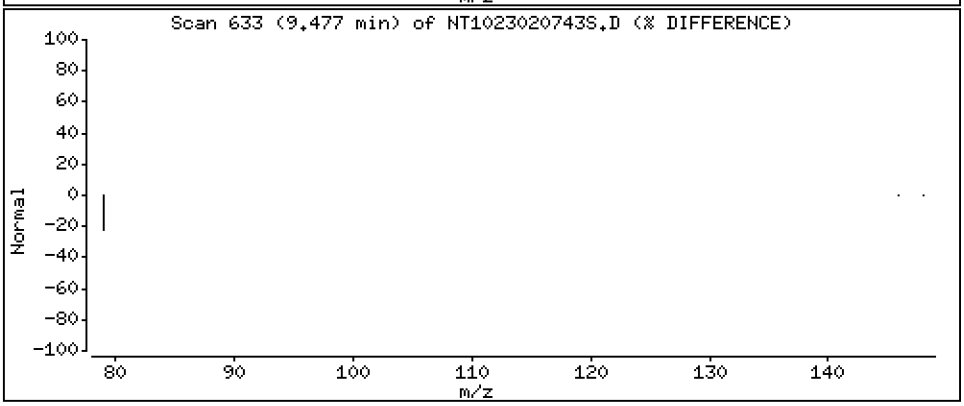












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020743S.D

Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

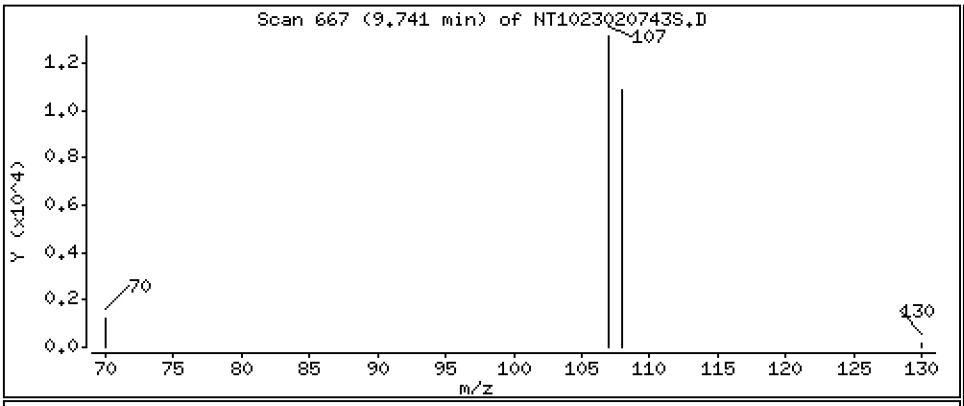
Operator: DSD

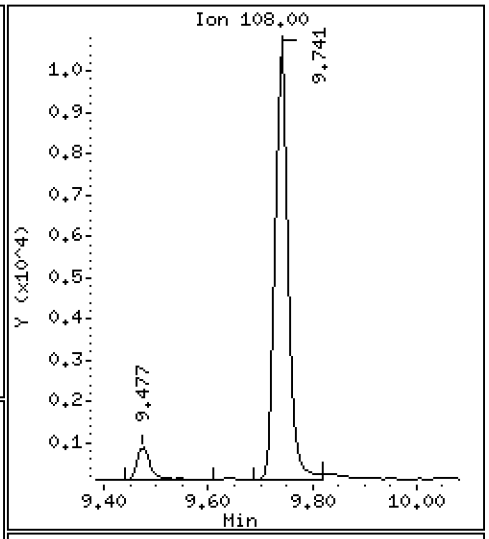
Column phase: ZB-5msi

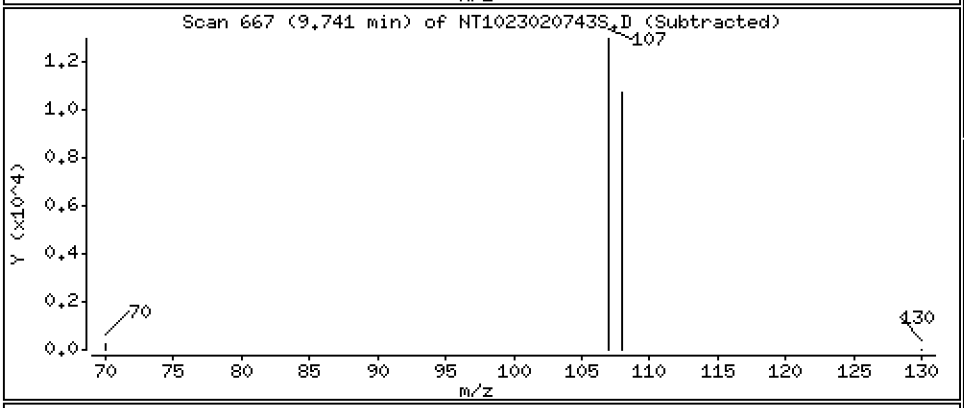
Column diameter: 0.25

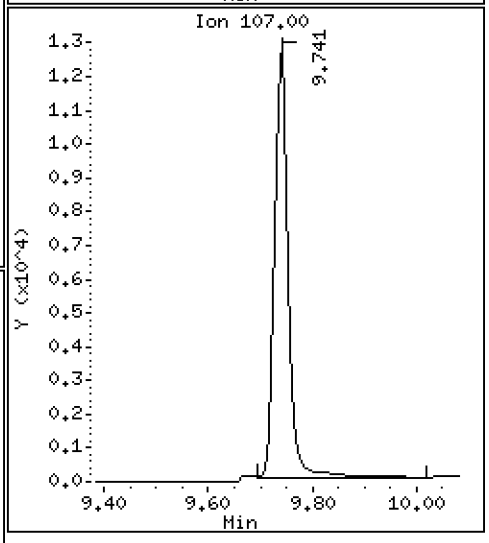
15 4-Methylphenol

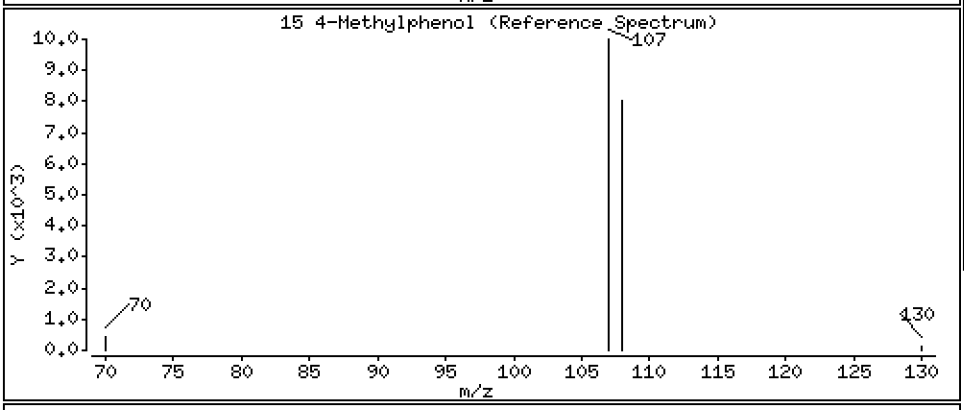
Concentration: 0.5366 ug/L

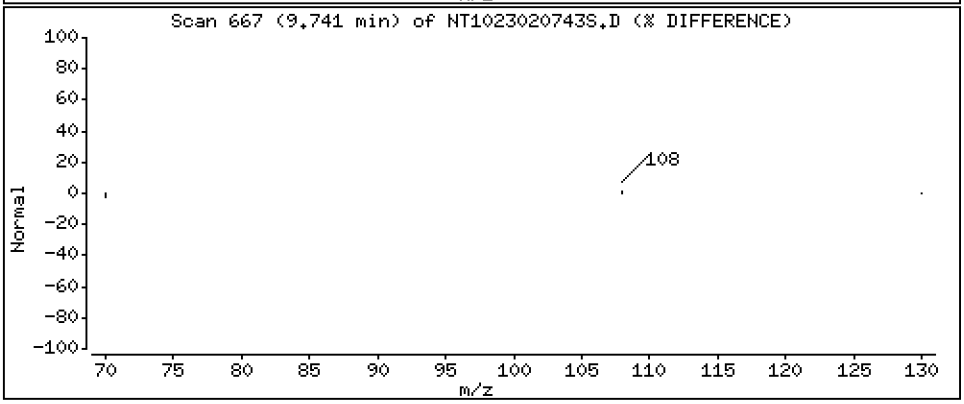












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207435.D

Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

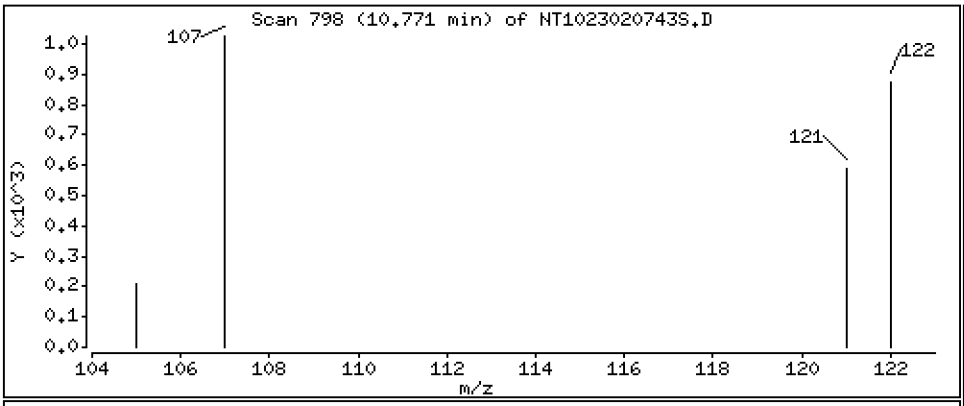
Operator: DSD

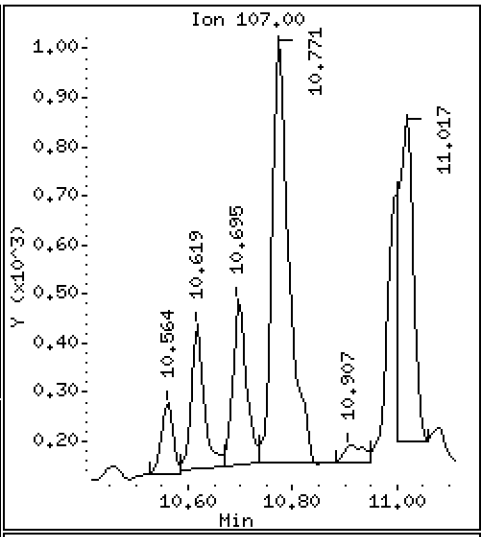
Column phase: ZB-5msi

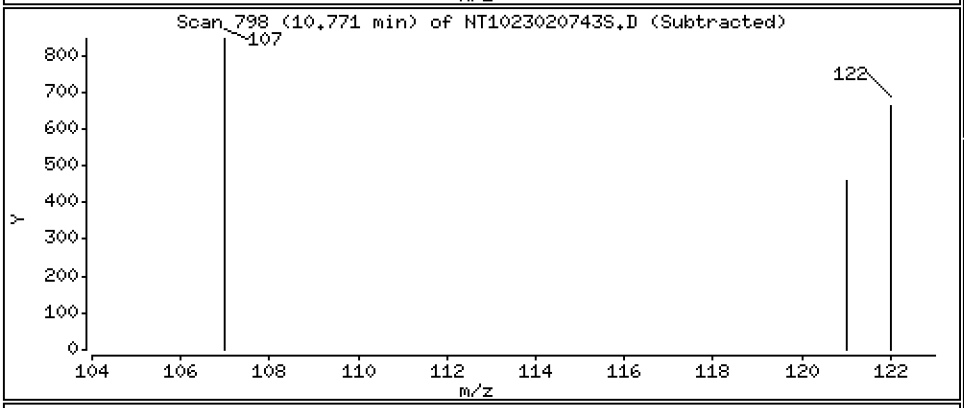
Column diameter: 0.25

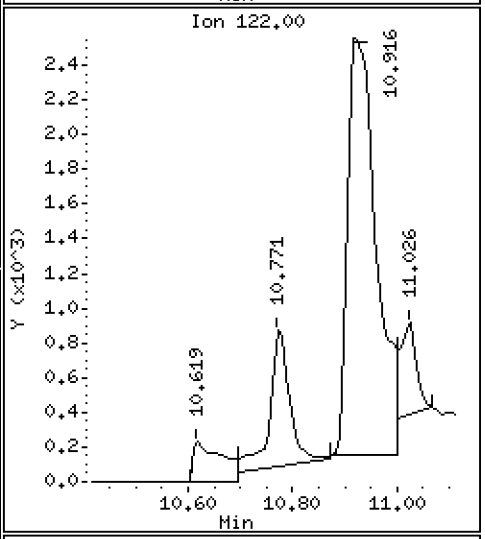
22 2,4-Dimethylphenol

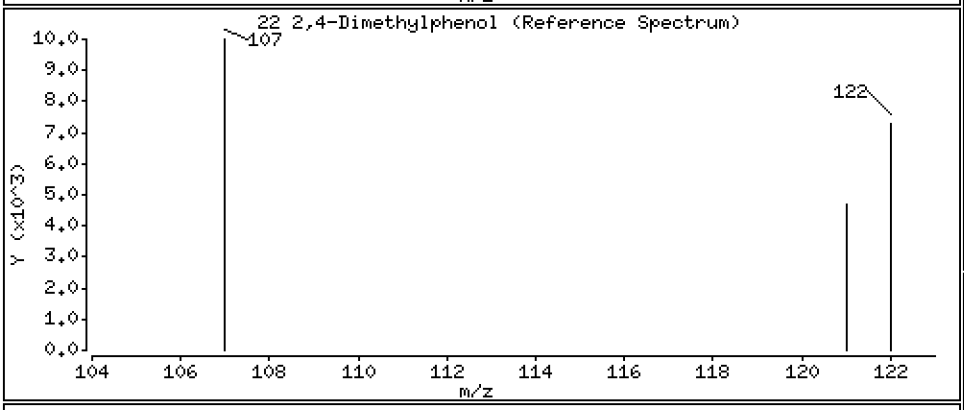
Concentration: 0.05373 ug/L

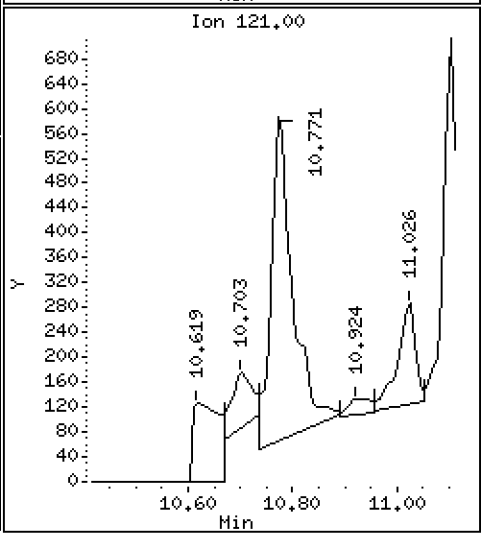


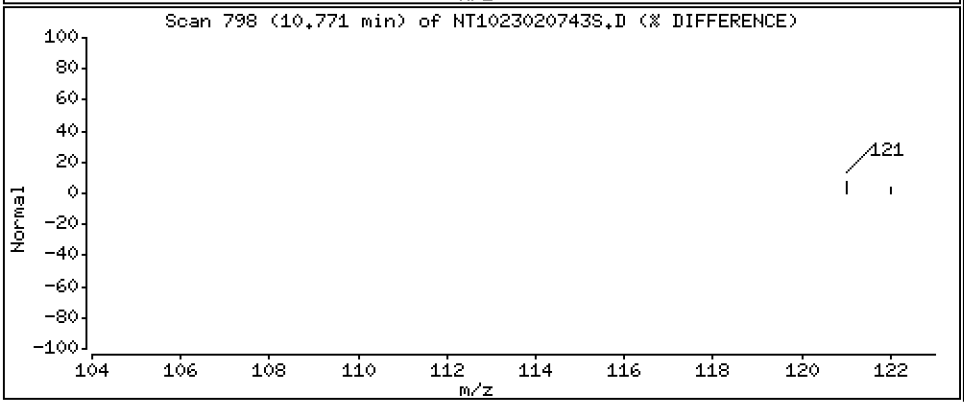












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Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

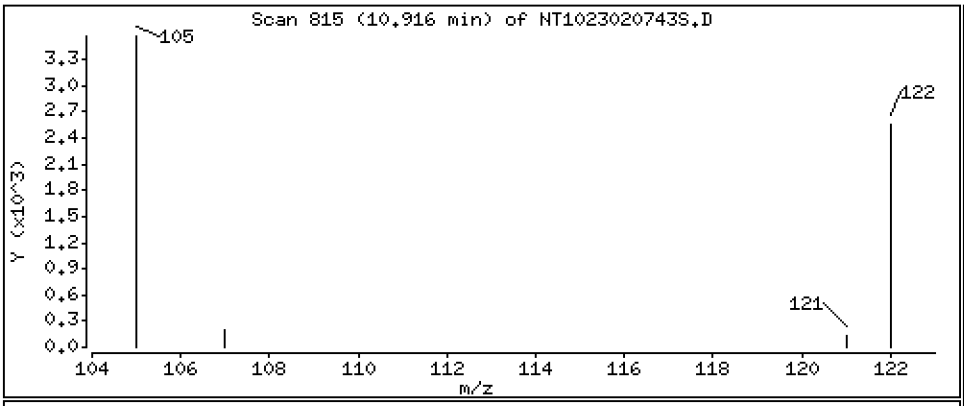
Operator: DSD

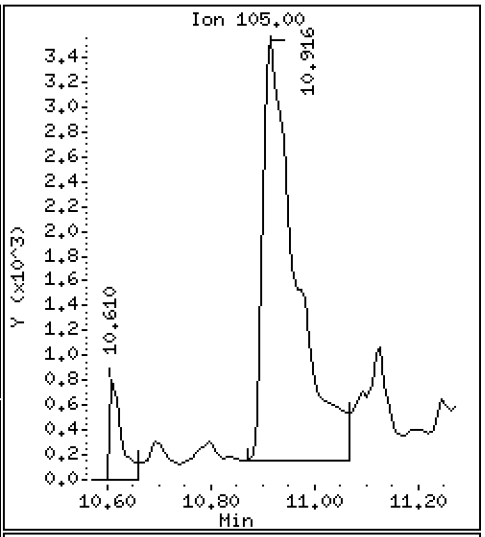
Column phase: ZB-5msi

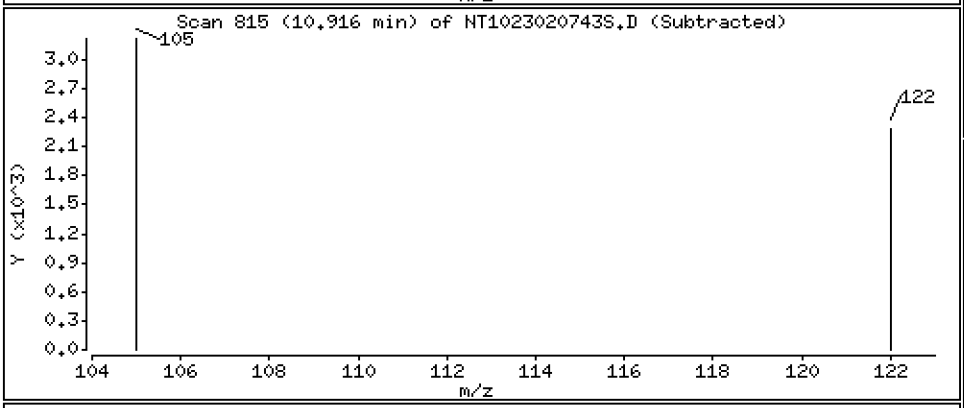
Column diameter: 0.25

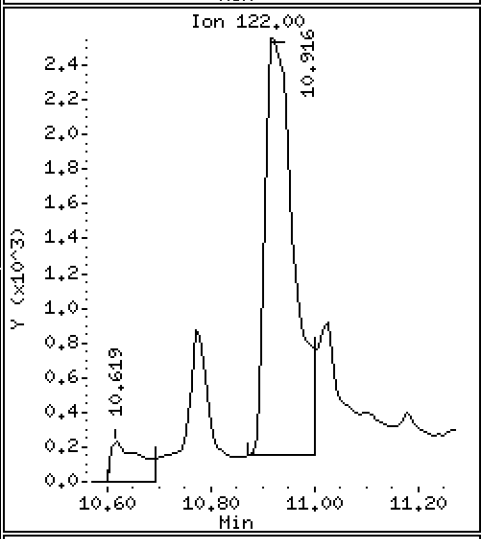
24 Benzoic acid

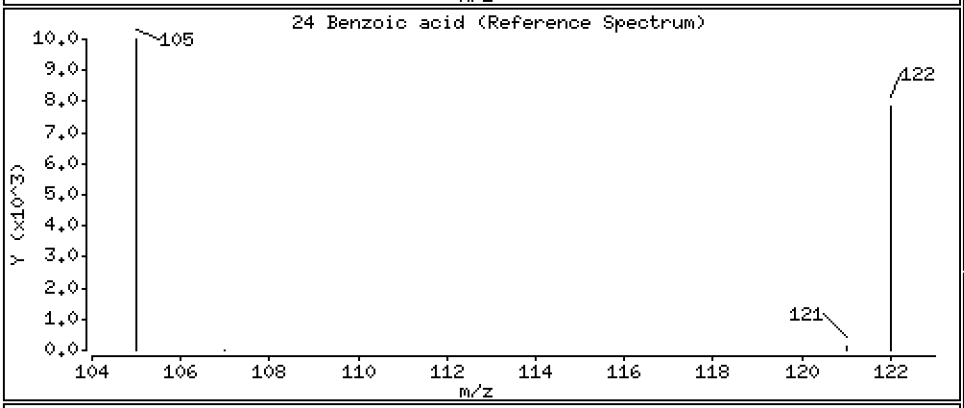
Concentration: 0.9106 ug/L

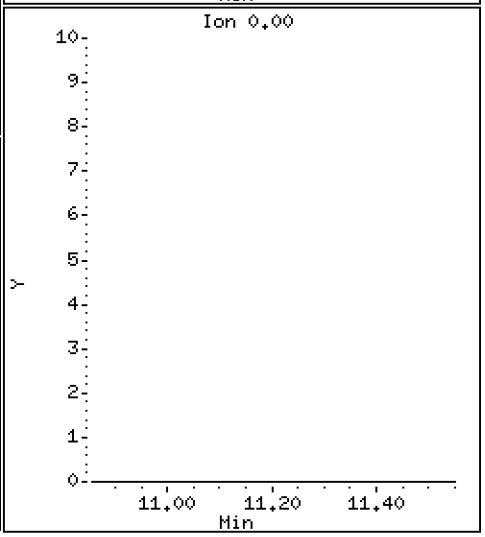


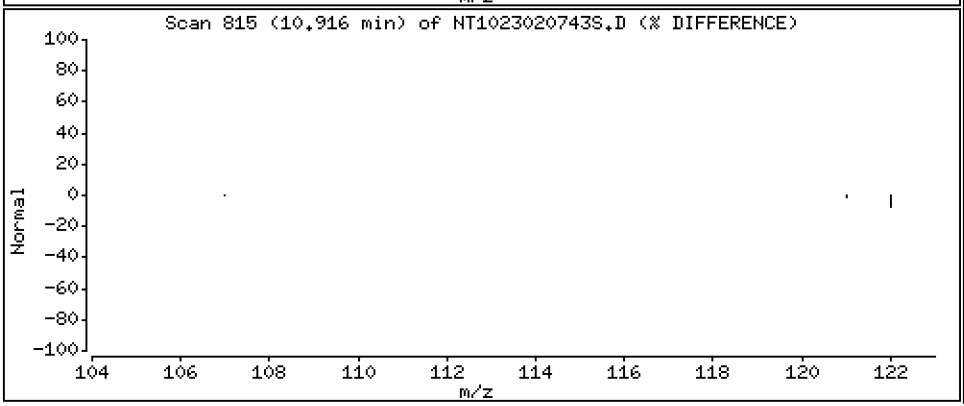












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207435.D

Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

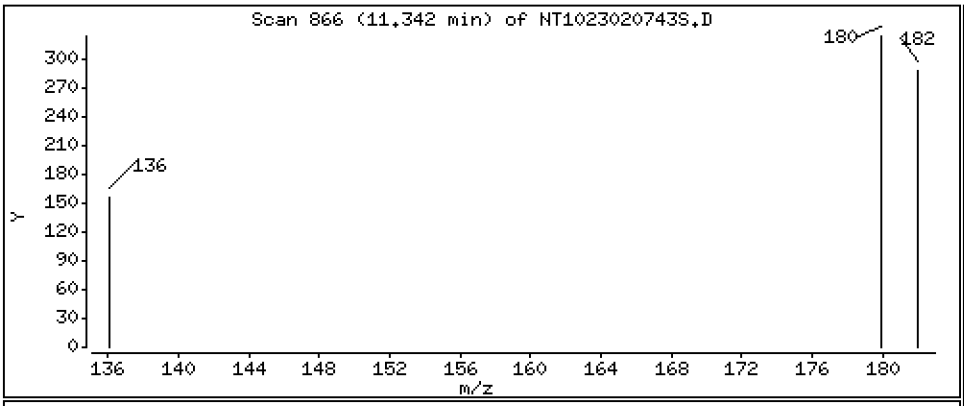
Operator: DSD

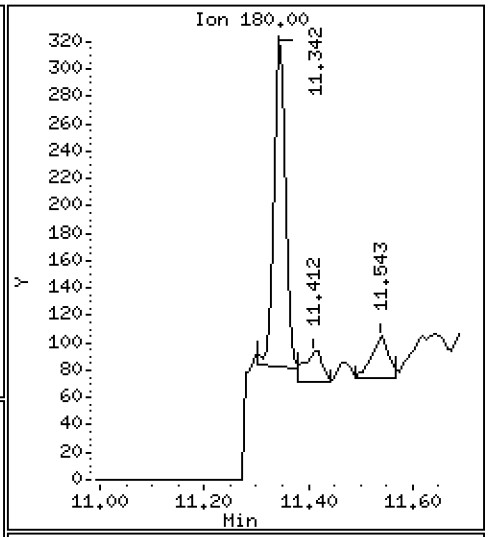
Column phase: ZB-5msi

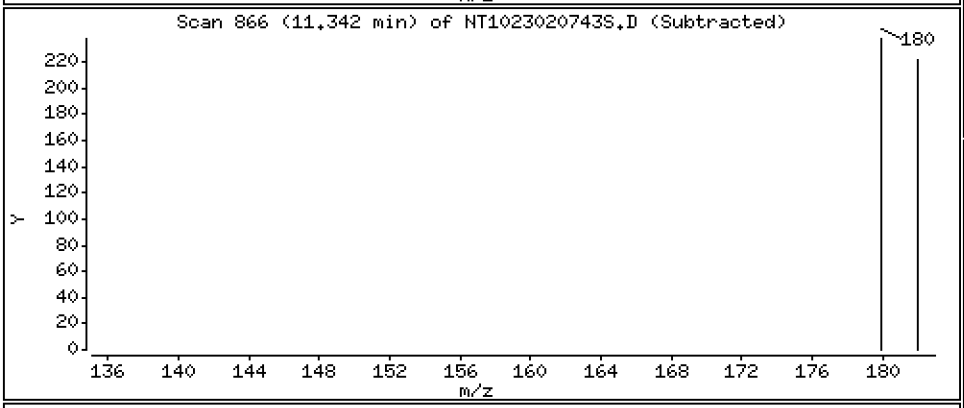
Column diameter: 0.25

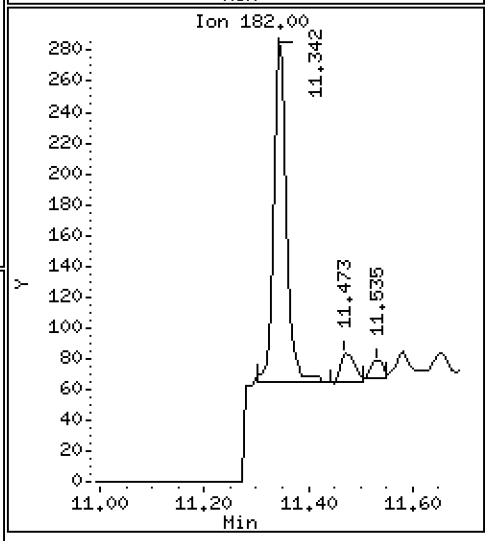
26 1,2,4-Trichlorobenzene

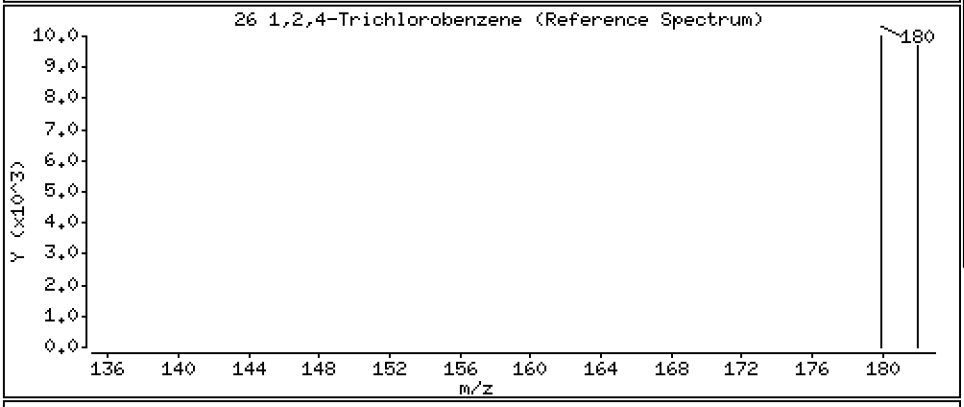
Concentration: 0.01147 ug/L

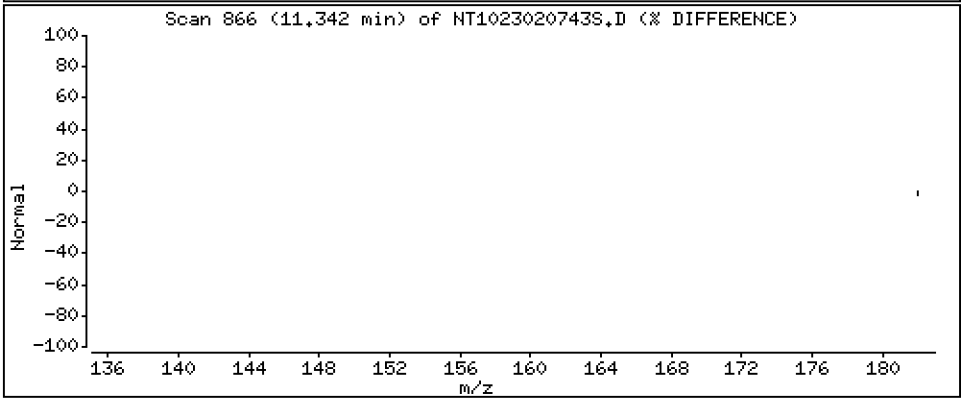












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020743S.D

Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

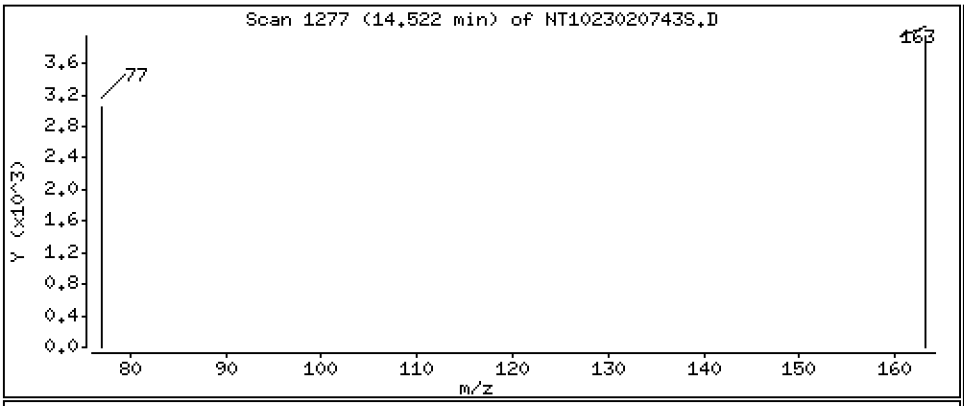
Operator: DSD

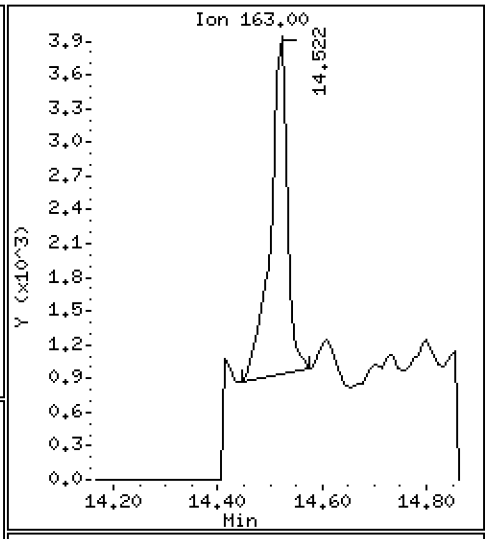
Column phase: ZB-5msi

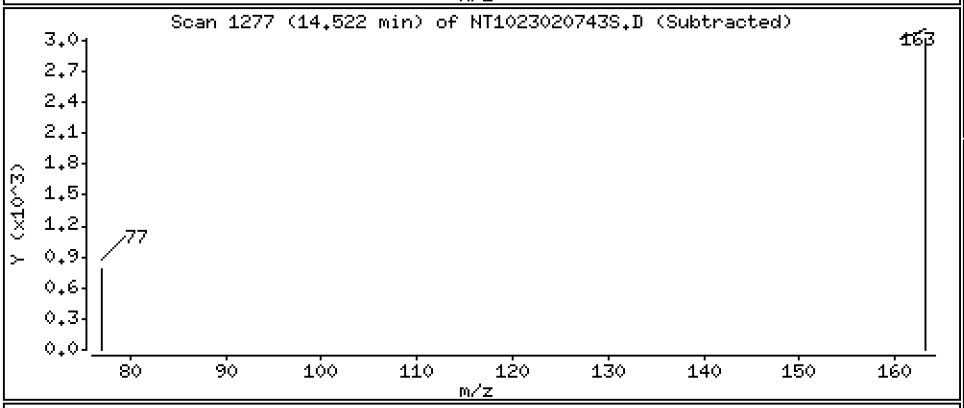
Column diameter: 0.25

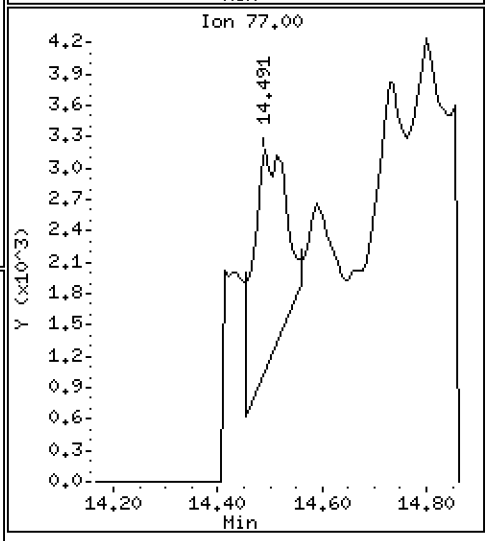
39 Dimethylphthalate

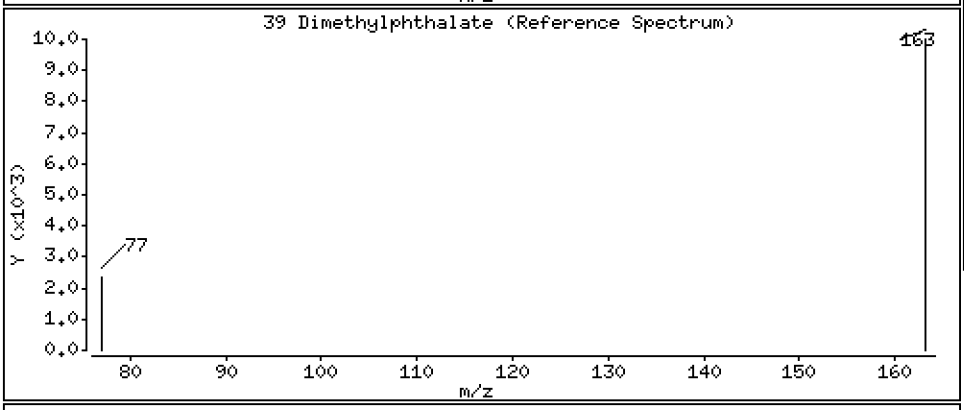
Concentration: 0.1448 ug/L

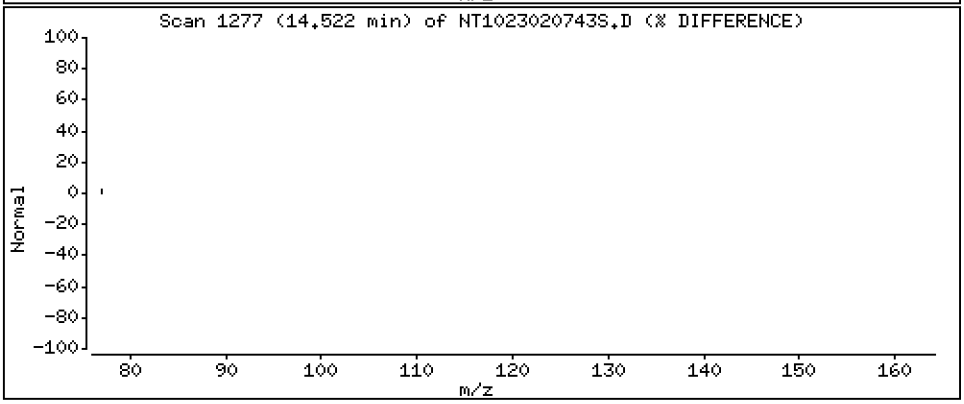












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020743S.D

Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

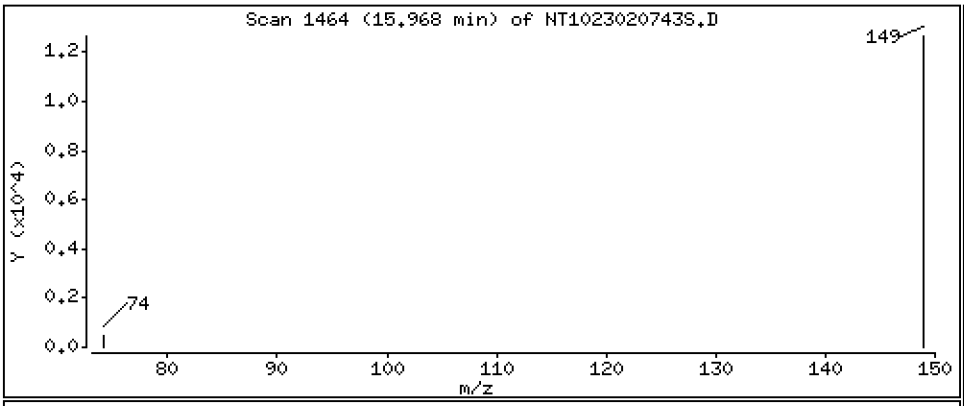
Operator: DSD

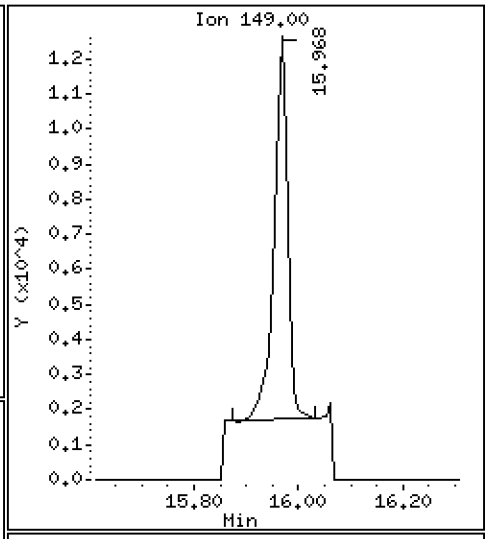
Column phase: ZB-5msi

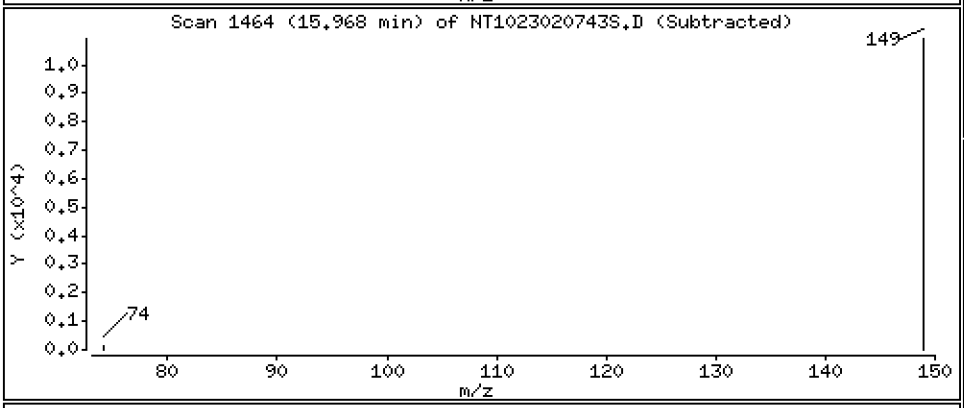
Column diameter: 0.25

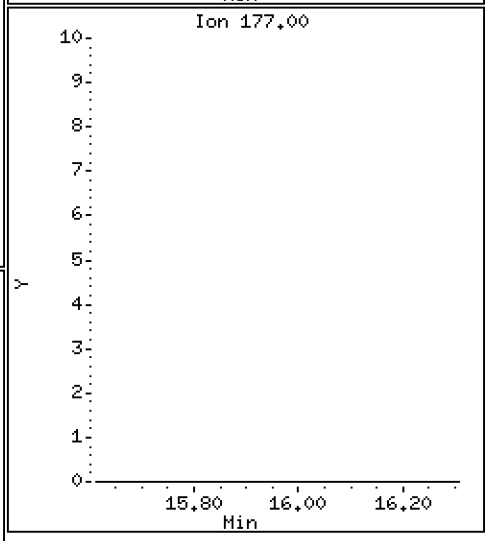
50 Diethylphthalate

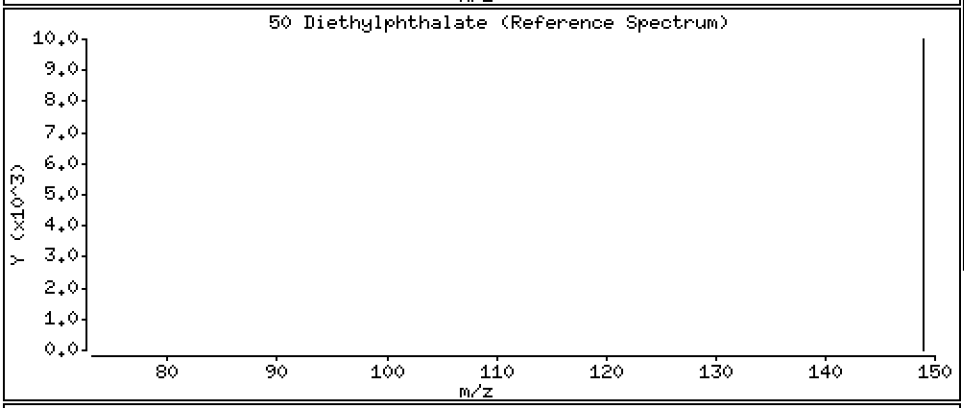
Concentration: 0.2876 ug/L

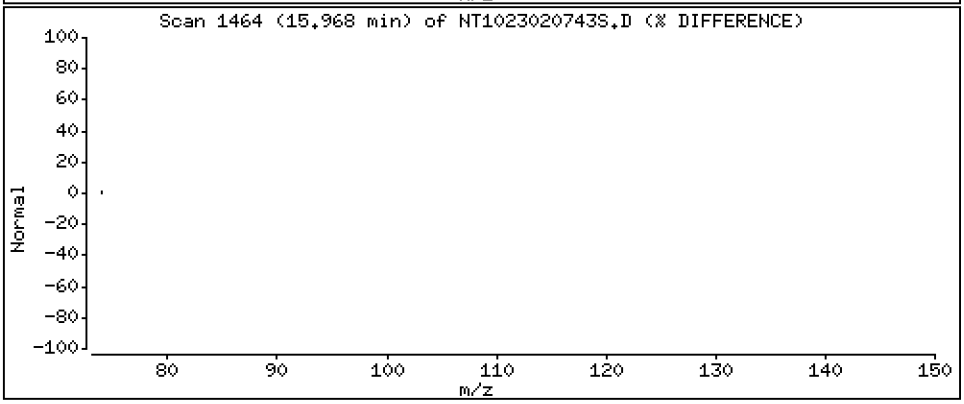












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020743S.D

Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

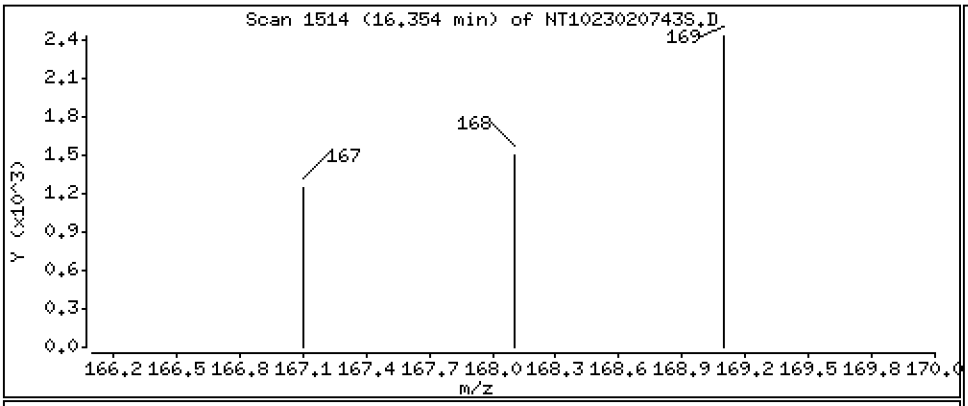
Operator: DSD

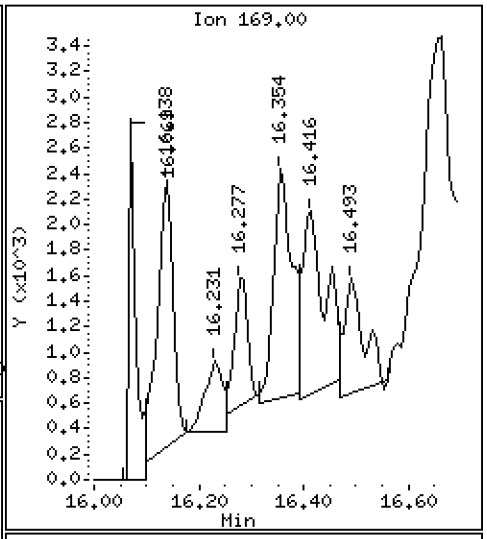
Column phase: ZB-5msi

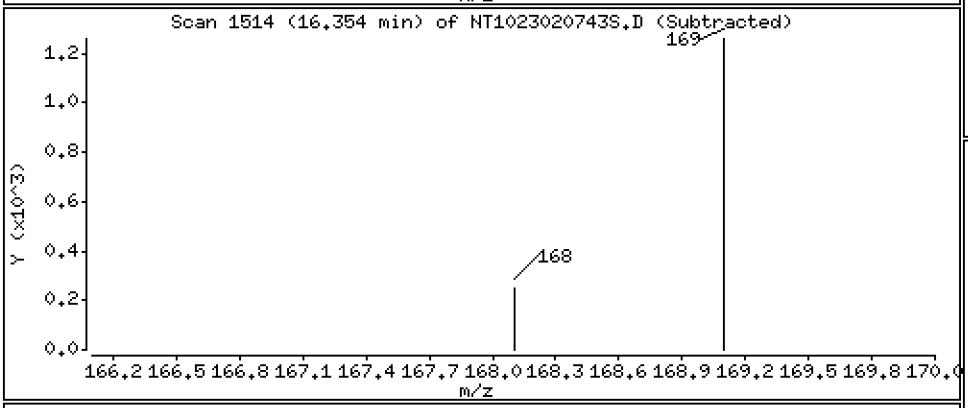
Column diameter: 0.25

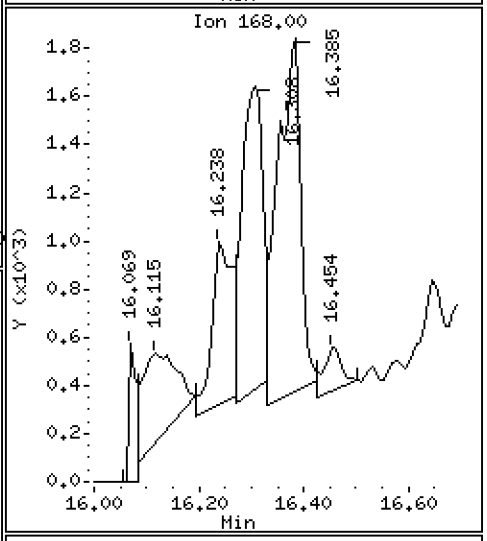
54 N-Nitrosodiphenylamine

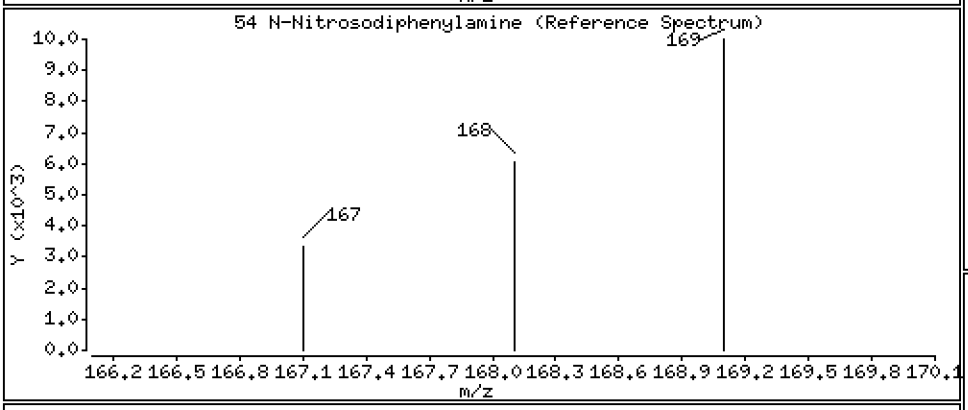
Concentration: 0.07786 ug/L

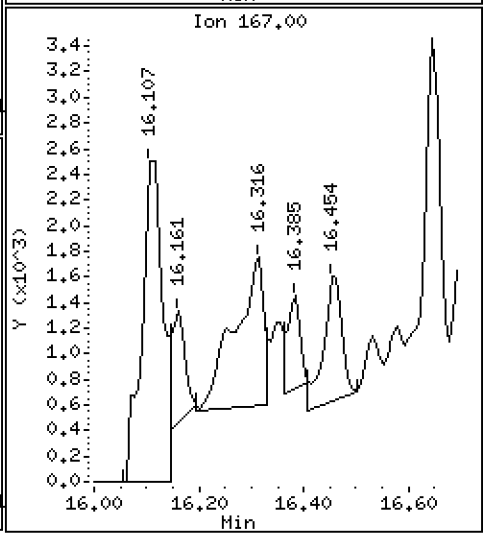


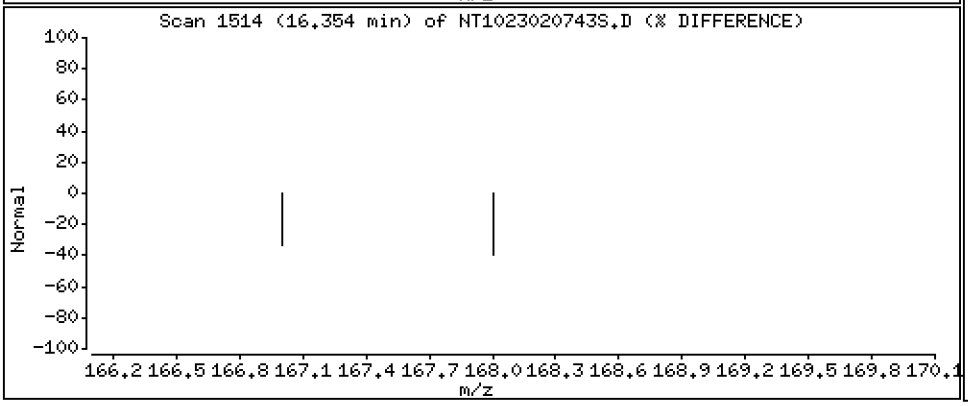












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020743S.D

Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

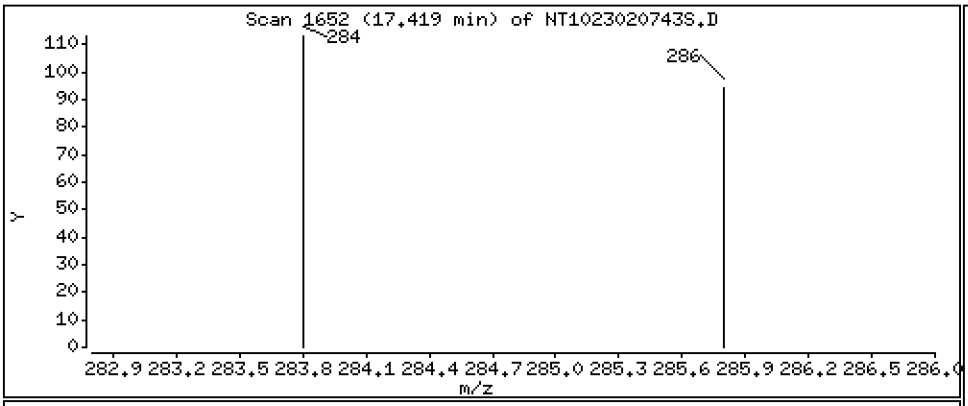
Operator: DSD

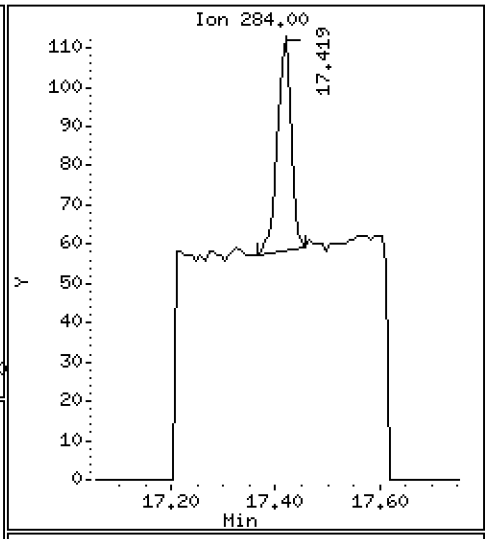
Column phase: ZB-5msi

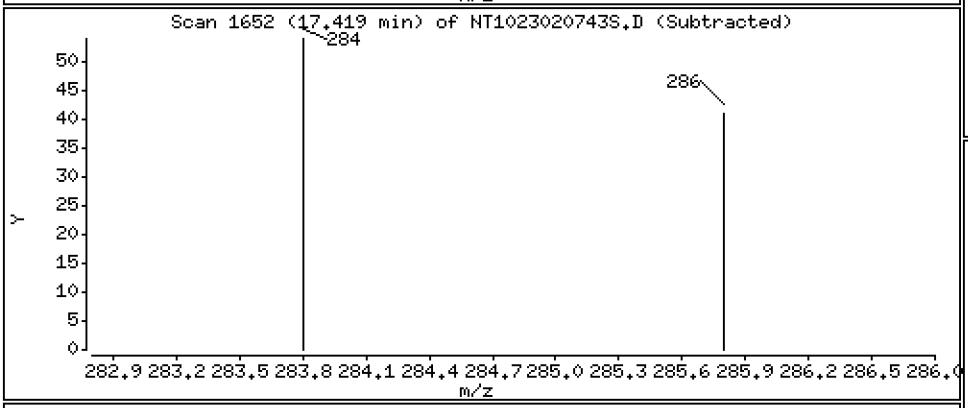
Column diameter: 0.25

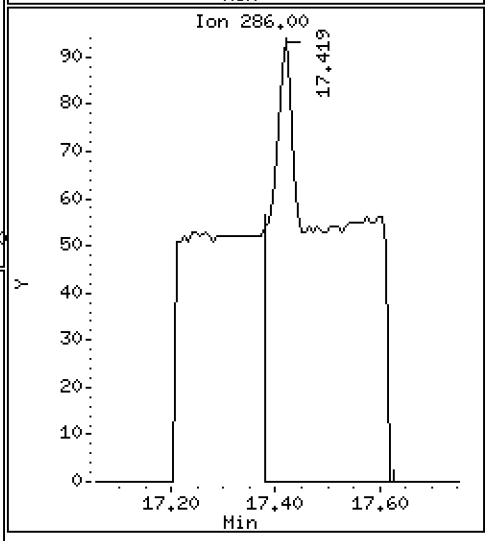
57 Hexachlorobenzene

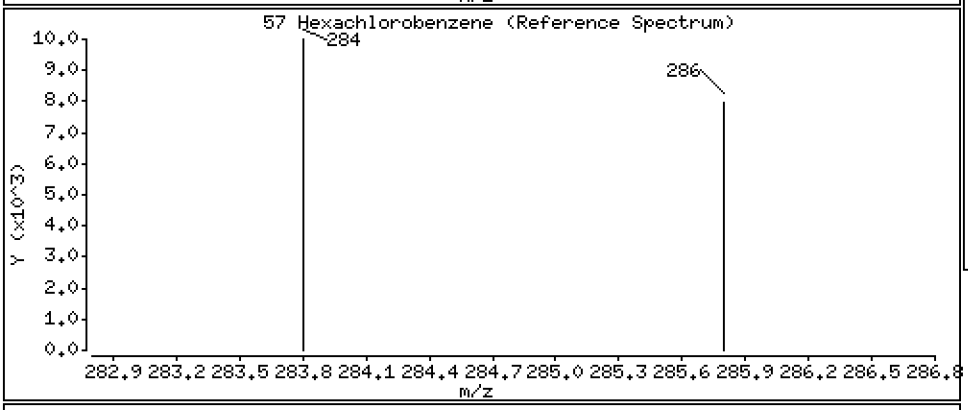
Concentration: 0.003890 ug/L

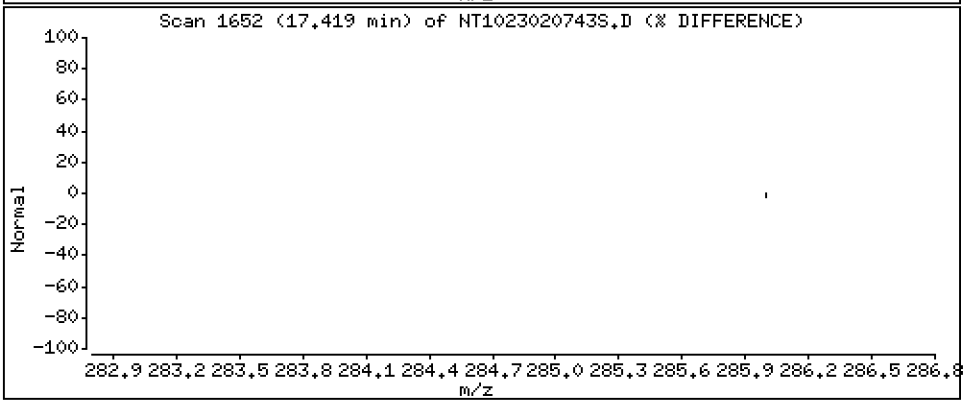












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020743S.D

Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

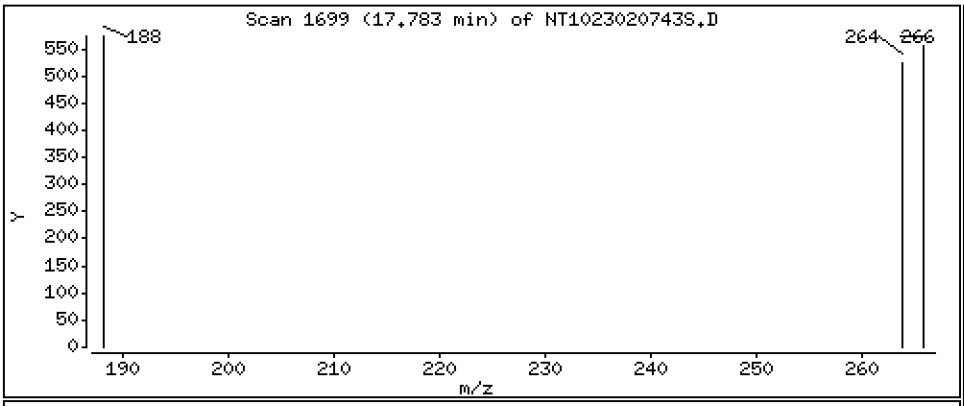
Operator: DSD

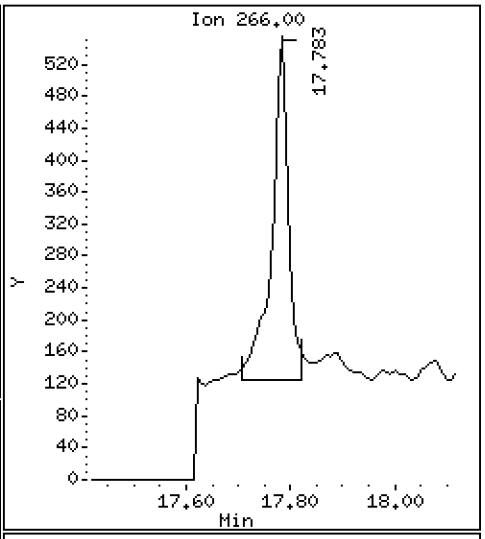
Column phase: ZB-5msi

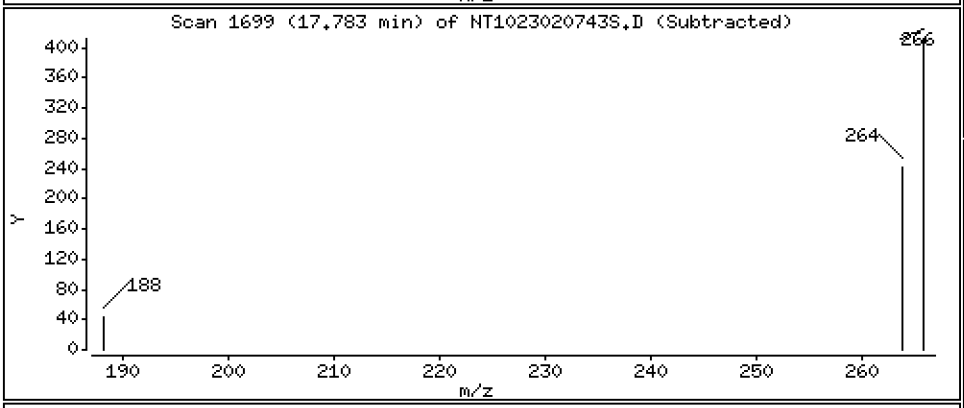
Column diameter: 0.25

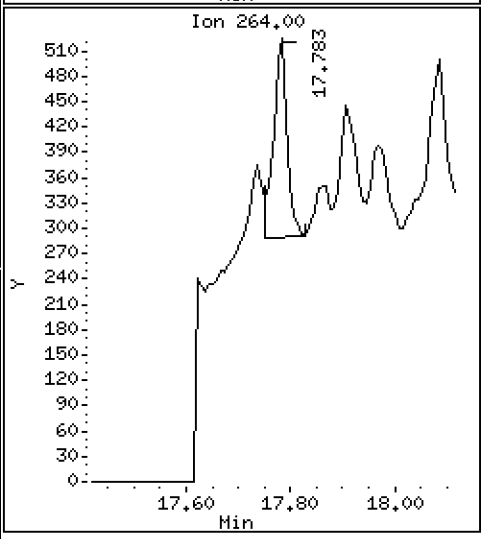
58 Pentachlorophenol

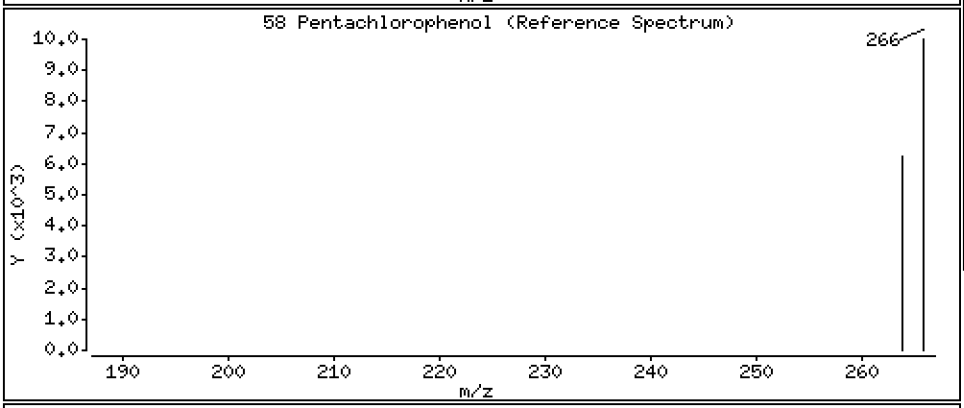
Concentration: 0.1102 ug/L

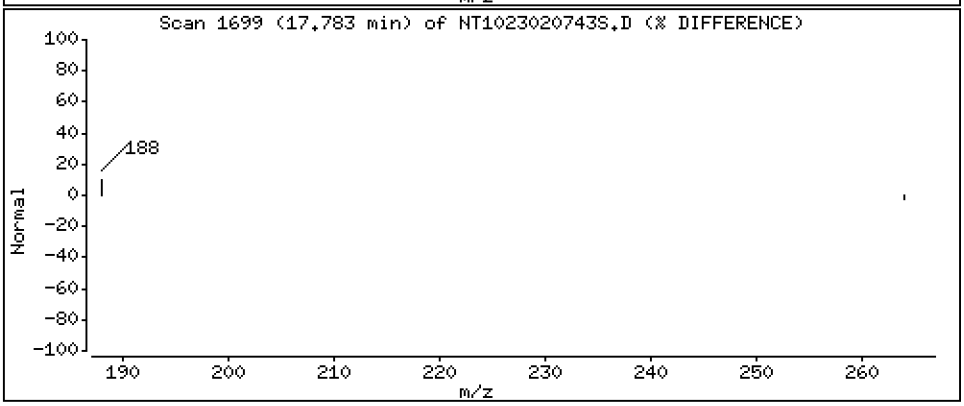












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020743S.D

Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

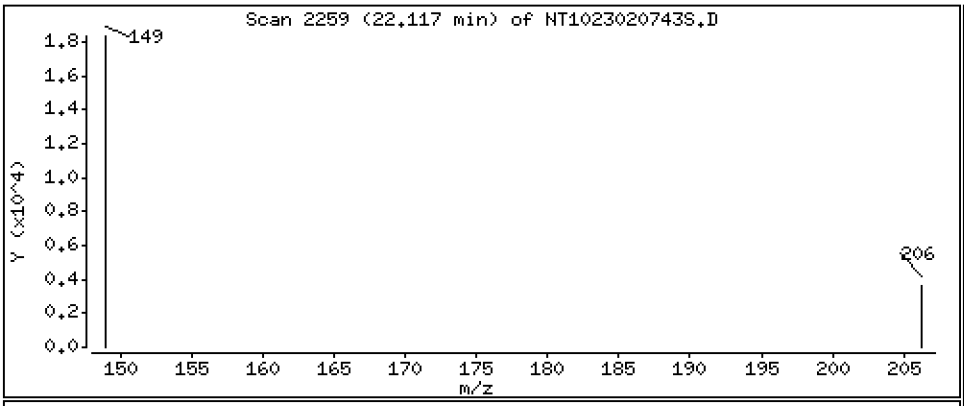
Operator: DSD

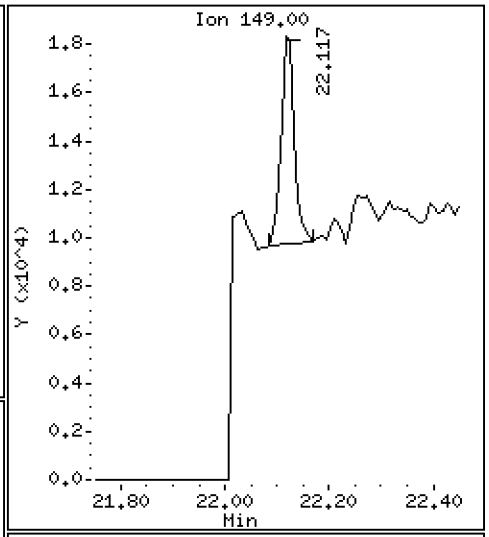
Column phase: ZB-5msi

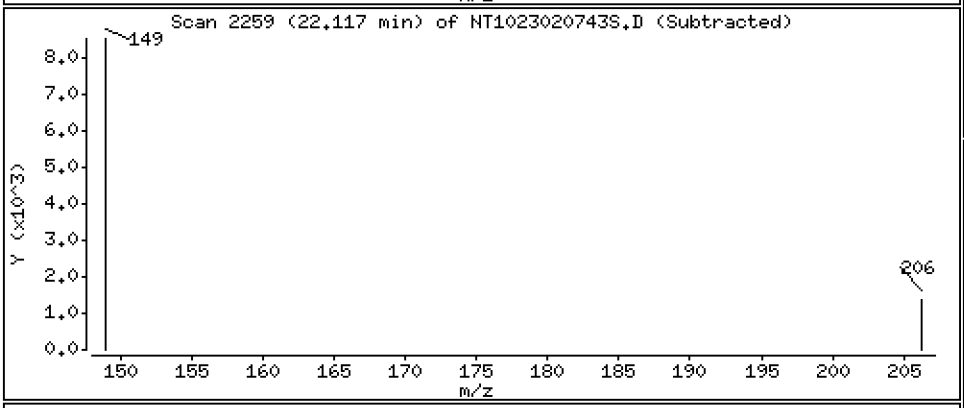
Column diameter: 0.25

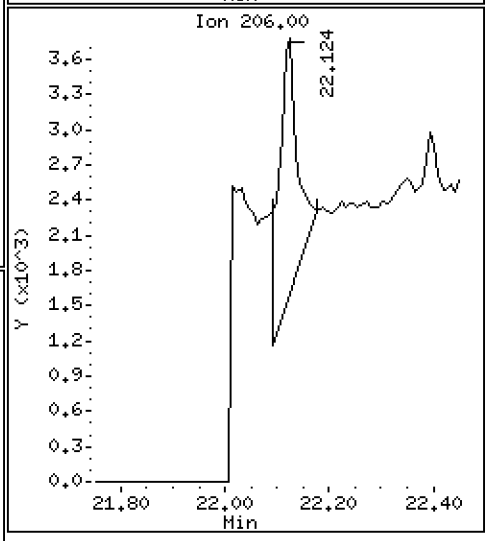
67 Butylbenzylphthalate

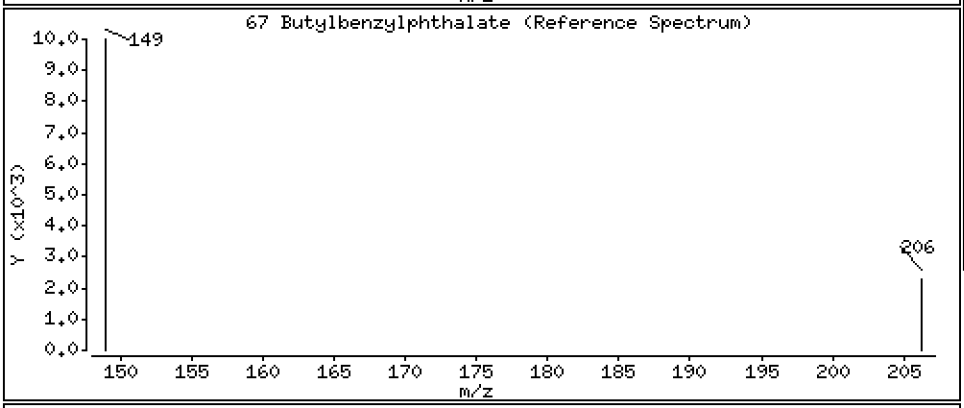
Concentration: 0.4242 ug/L

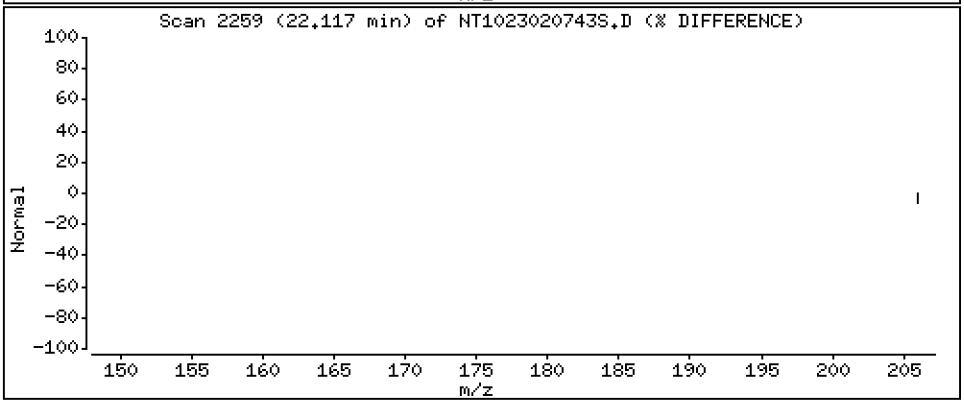












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020743S.D

Date : 08-FEB-2023 14:25

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-03

Volume Injected (uL): 1.0

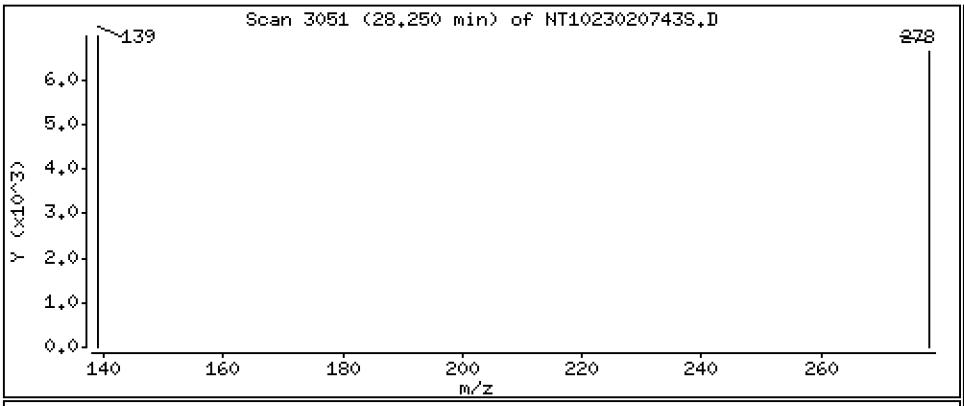
Operator: DSD

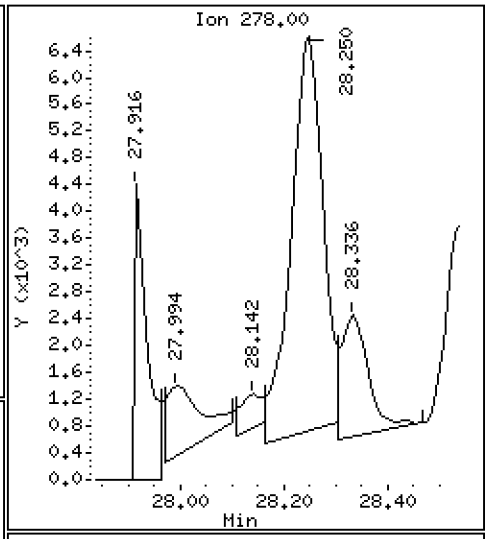
Column phase: ZB-5msi

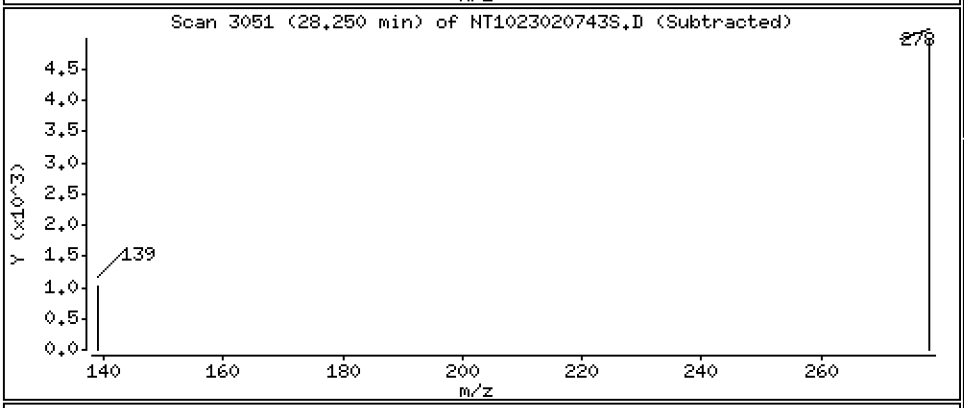
Column diameter: 0.25

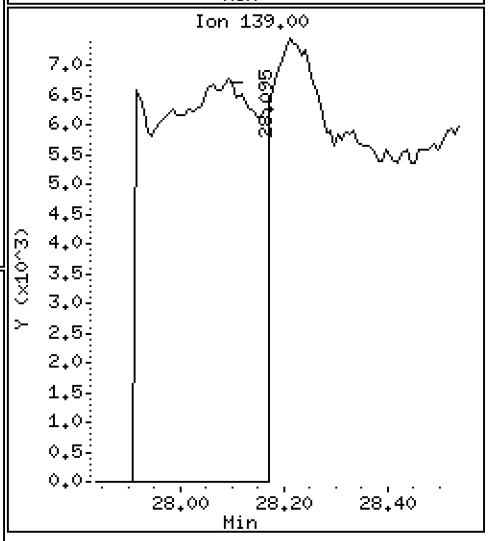
79 Dibenzo(a,h)anthracene

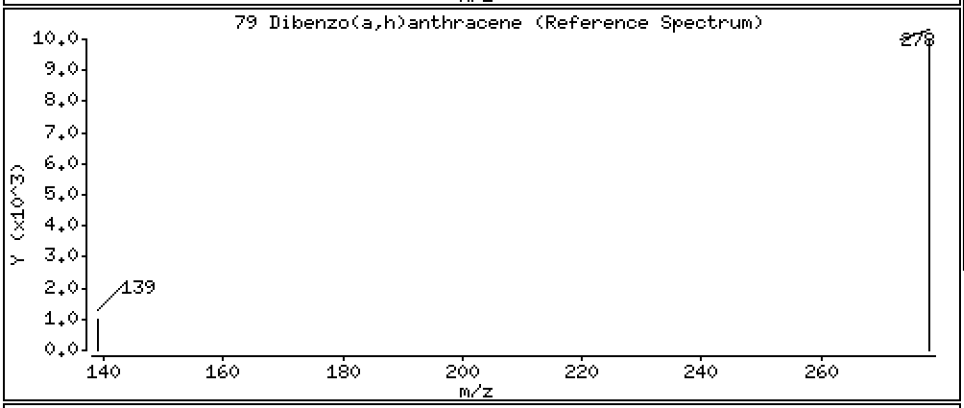
Concentration: 0.4226 ug/L

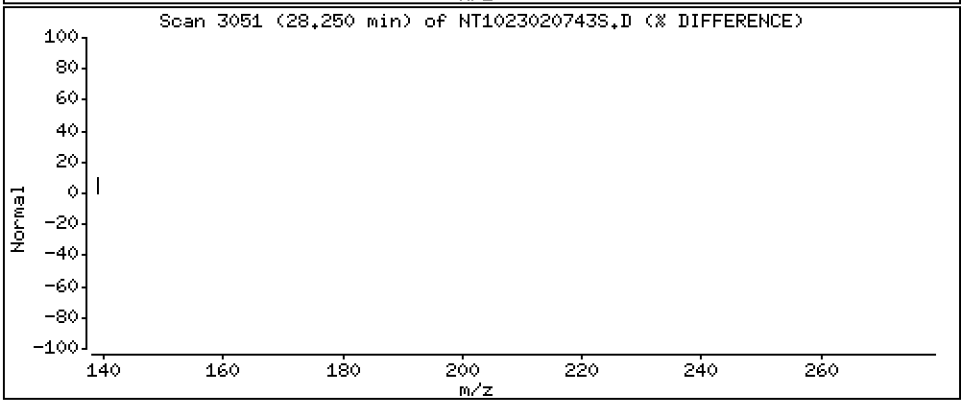












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020743S.D
Lab Smp Id: 22L0459-03
Inj Date : 08-FEB-2023 14:25 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : 22L0459-03
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.792	6.777	(0.757)	160256	5.05127	5.051(R)
3	Phenol	94	8.377	8.369	(0.934)	8883	0.18569	0.1857
7	1,3-Dichlorobenzene	146	8.910	8.902	(0.993)	342	0.00794	0.007938(M)
* 8	1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	104328	4.00000	
9	1,4-Dichlorobenzene	146	9.003	8.996	(1.003)	2340	0.05555	0.05555(M)
11	Benzyl alcohol	79	9.244	9.236	(1.030)	9709	0.41603	0.4160
12	1,2-Dichlorobenzene	146	9.352	9.353	(1.042)	989	0.02406	0.02406
13	2-Methylphenol	108	9.476	9.461	(1.056)	1453	0.04449	0.04449
15	4-Methylphenol	108	9.740	9.733	(1.086)	17876	0.53665	0.5366
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.771	10.763	(0.943)	1919	0.05373	0.05373
24	Benzoic acid	105	10.915	10.924	(0.955)	15097	0.91062	0.9106(H)
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	384	0.01147	0.01147
* 27	Naphthalene-d8	136	11.427	11.427	(1.000)	406627	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	14.522	14.514	(0.967)	6426	0.14476	0.1448(M)
* 42	Acenaphthene-d10	162	15.017	15.009	(1.000)	190468	4.00000	
50	Diethylphthalate	149	15.968	15.960	(1.063)	19228	0.28761	0.2876(M)
54	N-Nitrosodiphenylamine	169	16.354	16.346	(0.907)	4562	0.07786	0.07786
57	Hexachlorobenzene	284	17.419	17.404	(0.966)	97	0.00389	0.003890(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.783	17.768	(0.986)	956	0.11015	0.1102(M)
*	59 Phenanthrene-d10	188	18.038	18.023	(1.000)	354546	4.00000	
$	66 Terphenyl-d14	244	21.210	21.164	(0.918)	233255	4.42573	4.426(R)
	67 Butylbenzylphthalate	149	22.116	22.101	(0.957)	15111	0.42416	0.4242(M)
*	69 Chrysene-d12	240	23.107	23.069	(1.000)	237446	4.00000	
*	77 Perylene-d12	264	25.685	25.631	(1.000)	215820	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.250	28.188	(1.100)	25564	0.42265	0.4226(H)
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 08-FEB-2023
Lab File ID: NT1023020743S.D Calibration Time: 08:40
Lab Smp Id: 22L0459-03
Analysis Type: SV Level: LOW
Quant Type: ISTD Sample Type: AIR
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	104328	-15.59
27 Naphthalene-d8	454738	227369	909476	406627	-10.58
42 Acenaphthene-d10	223117	111559	446234	190468	-14.63
59 Phenanthrene-d10	408770	204385	817540	354546	-13.27
69 Chrysene-d12	339328	169664	678656	237446	-30.02
77 Perylene-d12	382671	191336	765342	215820	-43.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	-0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	-0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.02	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.04	0.08
69 Chrysene-d12	23.07	22.57	23.57	23.11	0.17
77 Perylene-d12	25.63	25.13	26.13	25.69	0.21

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020743S.D

Lab ID: 22L0459-03
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 14:25

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

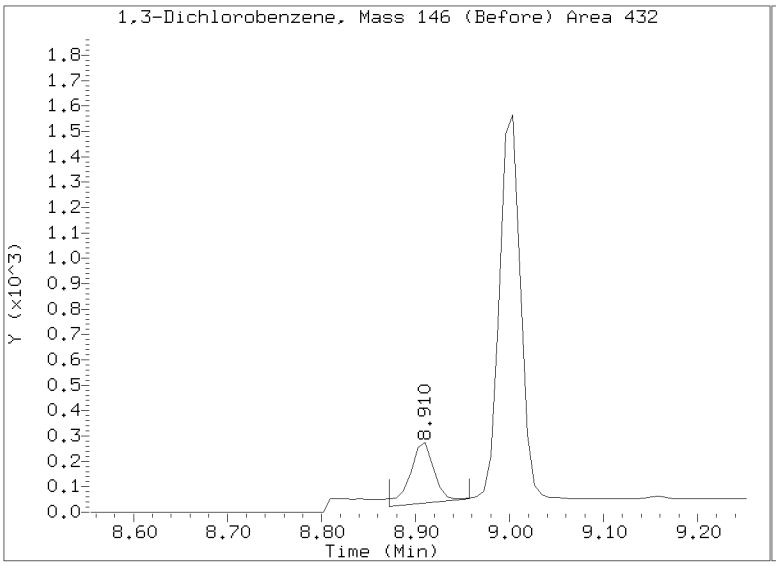
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

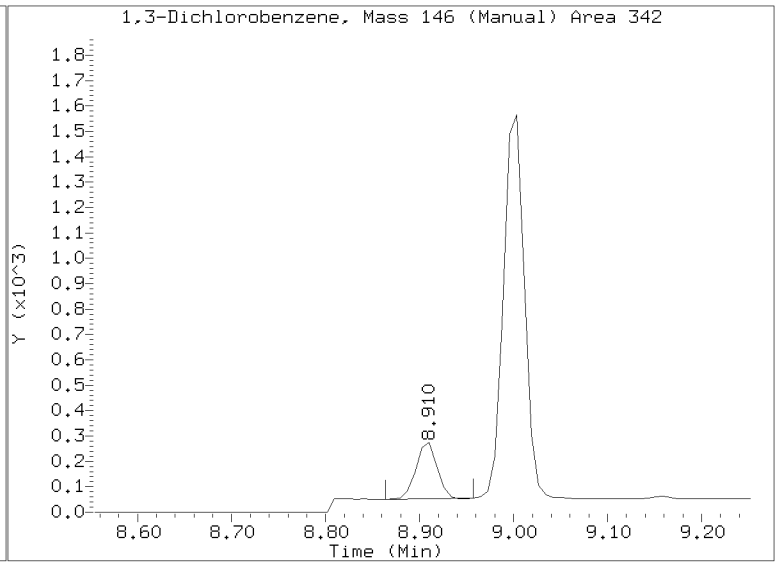
Exception: 1,2,4-Trichlorobenzene 0.0010

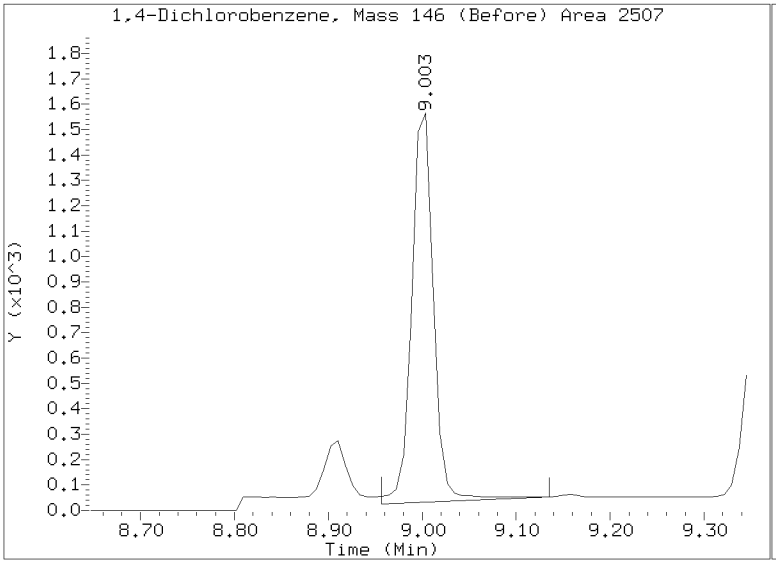
* Only compounds listed in the work order have been verified by the analyst *

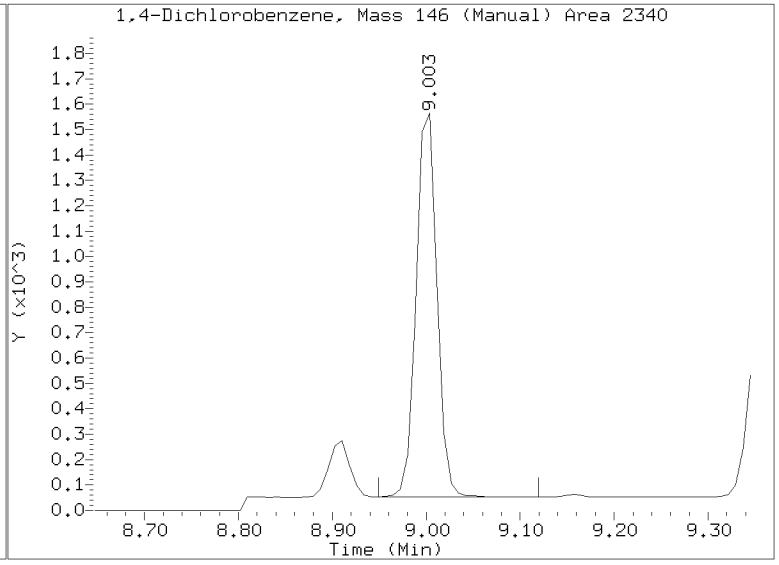
Quant Ion Manual Peak Adjustment Report

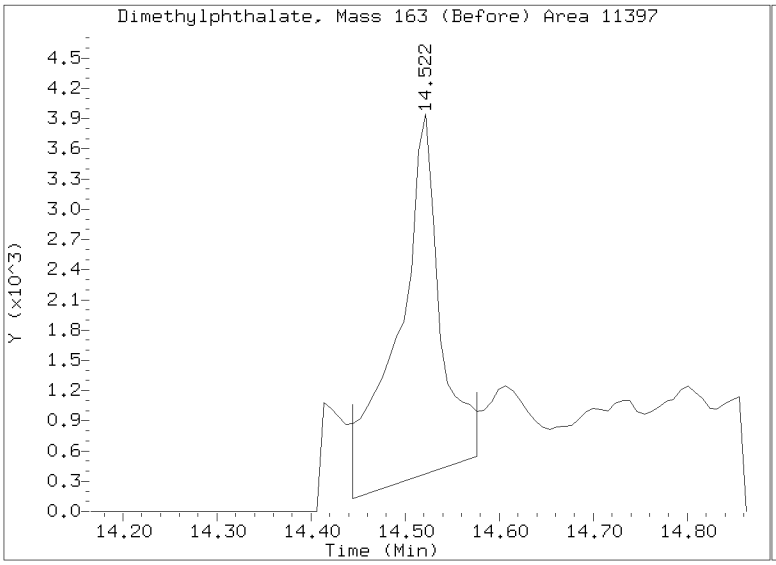
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020743S.D
Injection Date: 08-FEB-2023 14:25
Lab ID:22L0459-03 Client ID:
Report Date: 02/09/2023 14:59

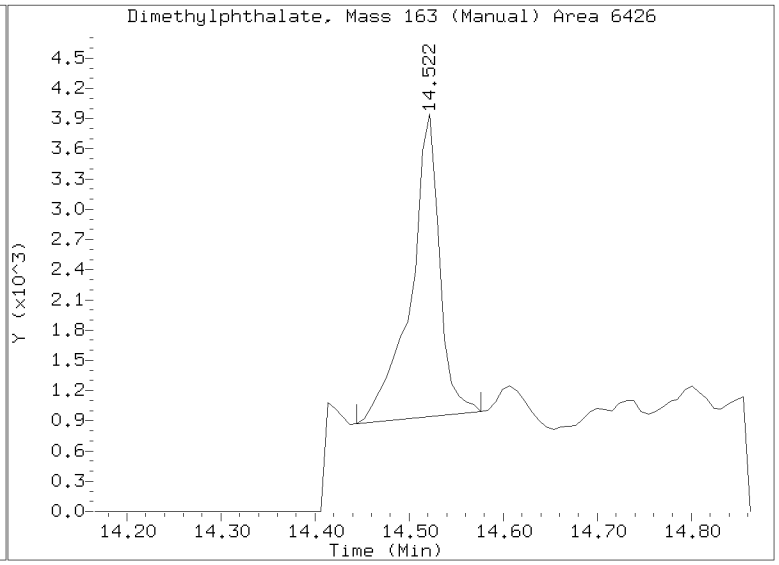












Quant Ion Manual Peak Adjustment Report

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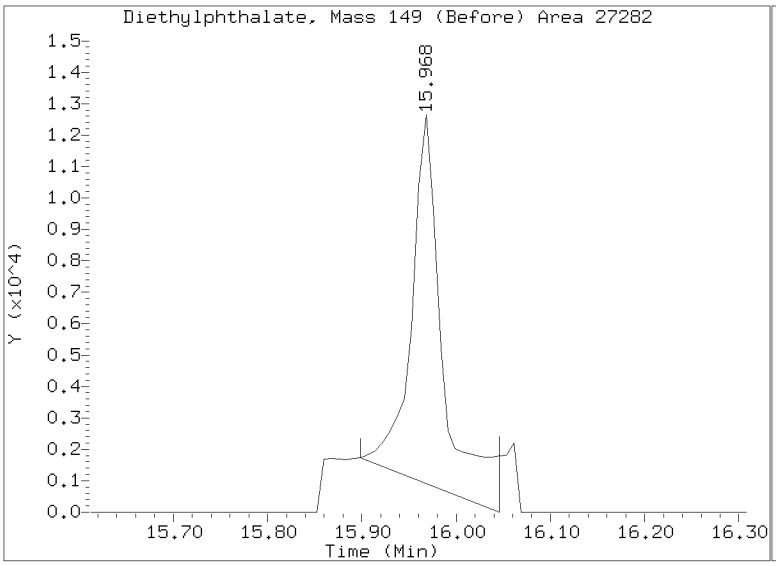
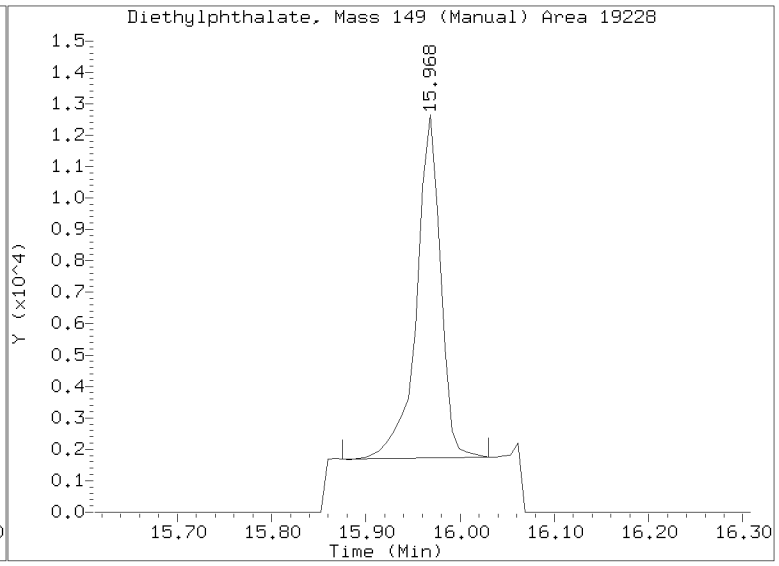
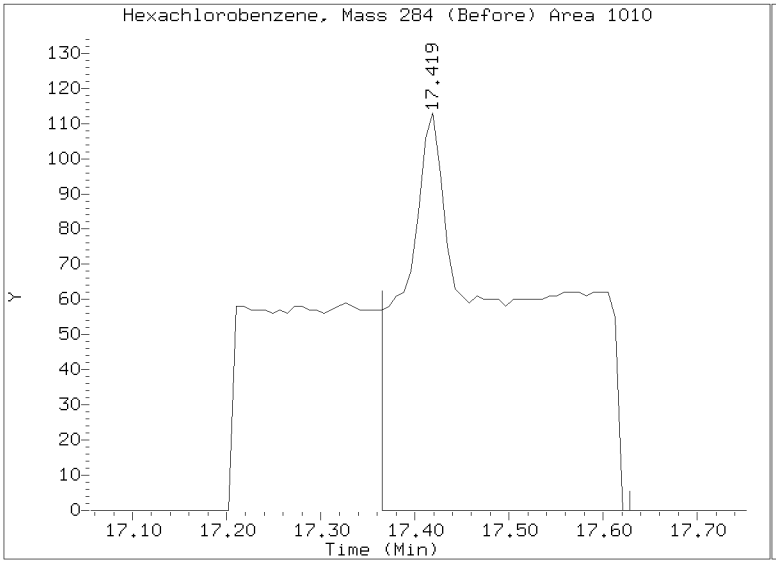
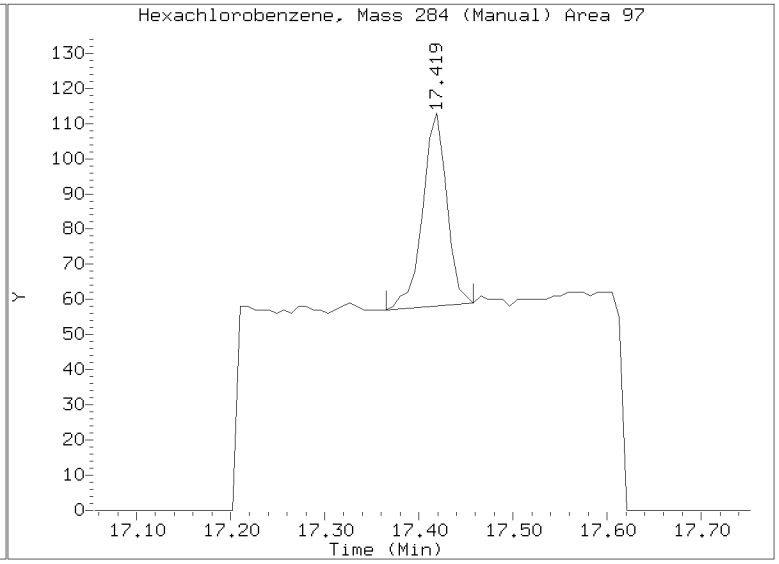
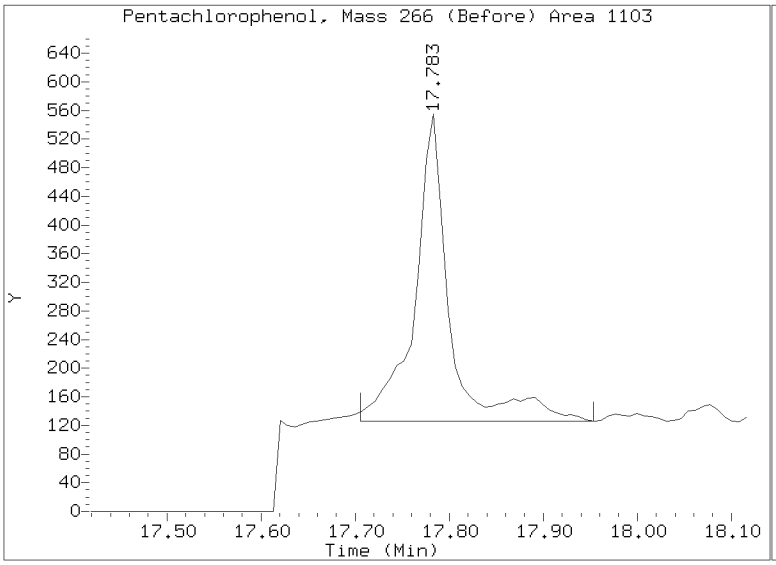
Injection Date: 08-FEB-2023 14:25
Lab ID:22L0459-03 Client ID:
Report Date: 02/09/2023 14:59

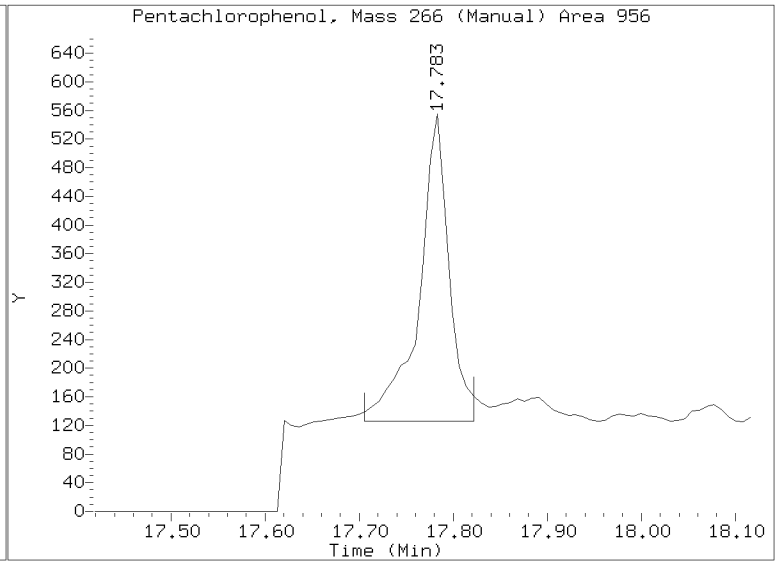












Quant Ion Manual Peak Adjustment Report

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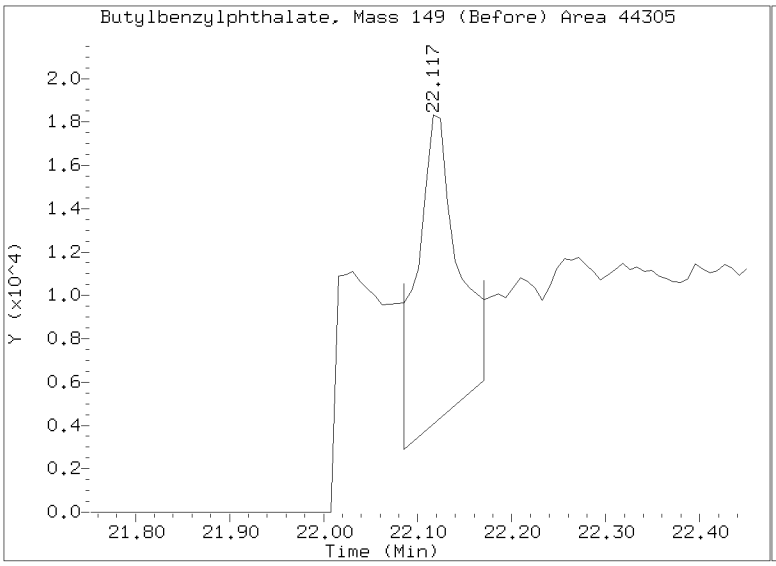
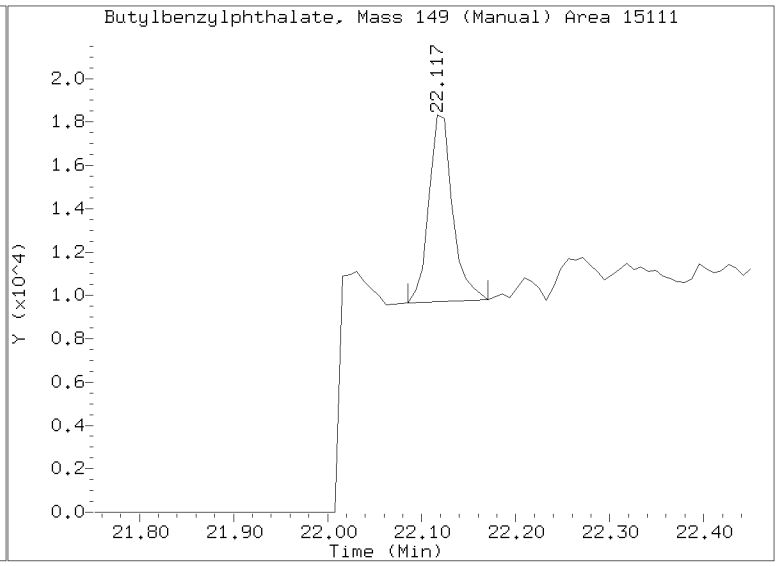
Injection Date: 08-FEB-2023 14:25
Lab ID:22L0459-03 Client ID:
Report Date: 02/09/2023 14:59





Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1007B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-04 A	SDG:	22L0459
Sampled:	12/16/22 10:43	Prepared:	01/05/23 16:13	File ID:	NT1023020744S.D
% Solids:	56.35	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/08/23 15:03
Batch:	BLA0064	Sequence:	SLB0106	Initial/Final:	17.8 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GB00019

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	2.5	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	5.0	U	0.7	5.0
100-51-6	Benzyl Alcohol	1	45.9		2.5	19.9
65-85-0	Benzoic acid	1	79.0	J	13.4	99.7
105-67-9	2,4-Dimethylphenol	1	2.9	J	2.2	19.9
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	3.5	J	1.3	5.0
87-86-5	Pentachlorophenol	1	4.2	J	2.1	19.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	747.73	515	68.8	27 - 120	
p-Terphenyl-d14	498.49	447	89.6	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207448.D

Page 1

Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

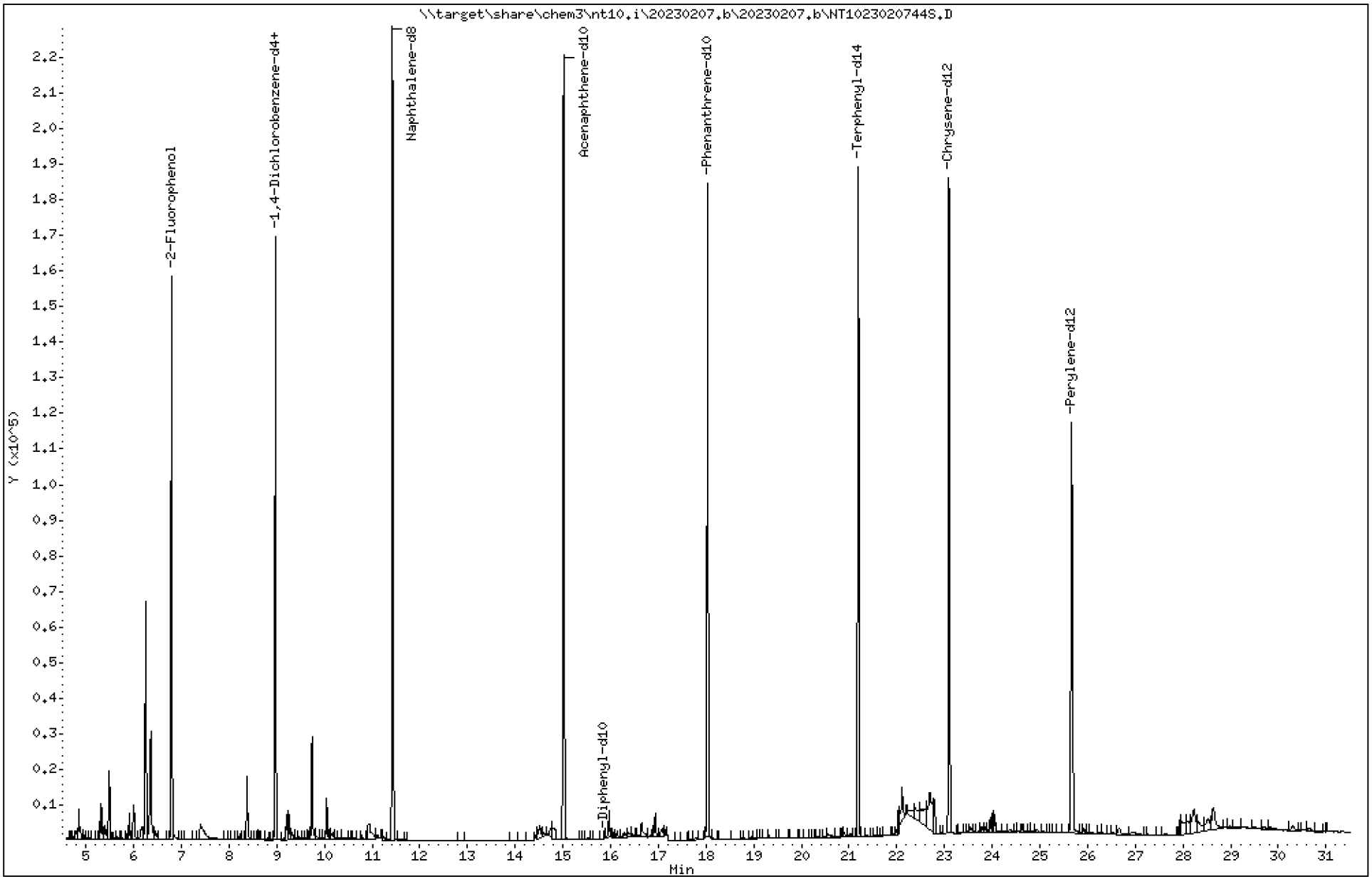
Sample Info: 22L0459-04

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

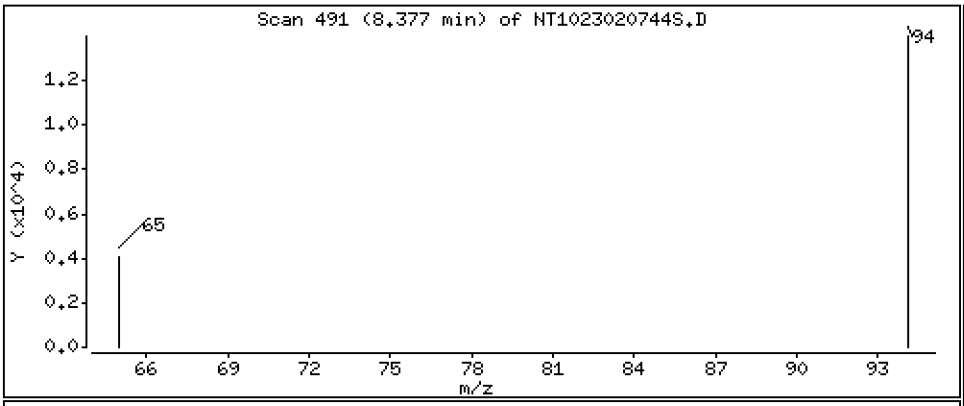
Operator: DSD

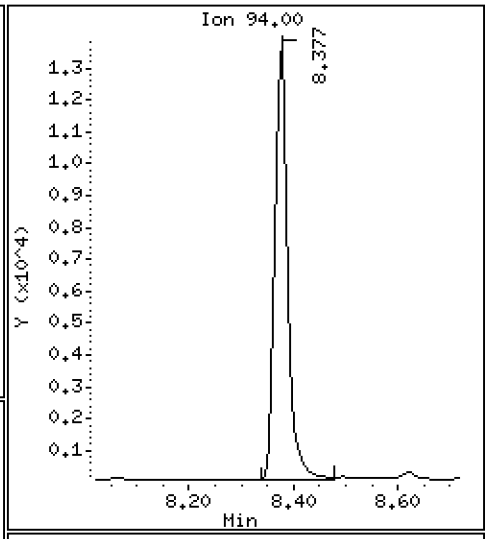
Column phase: ZB-5msi

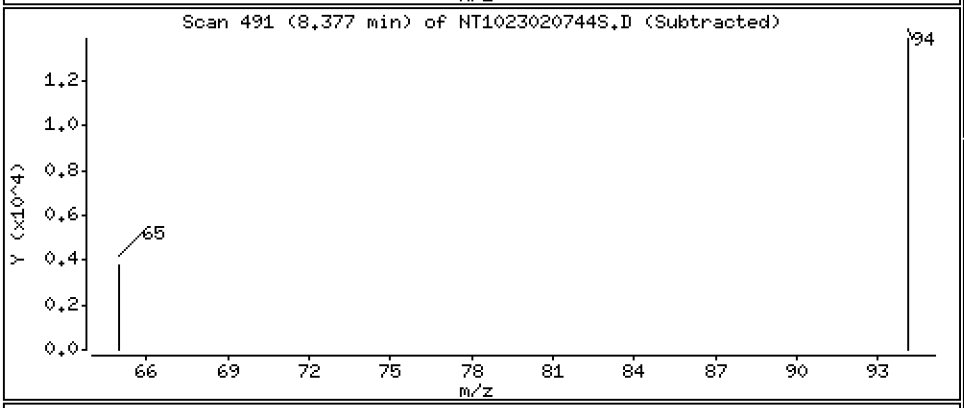
Column diameter: 0.25

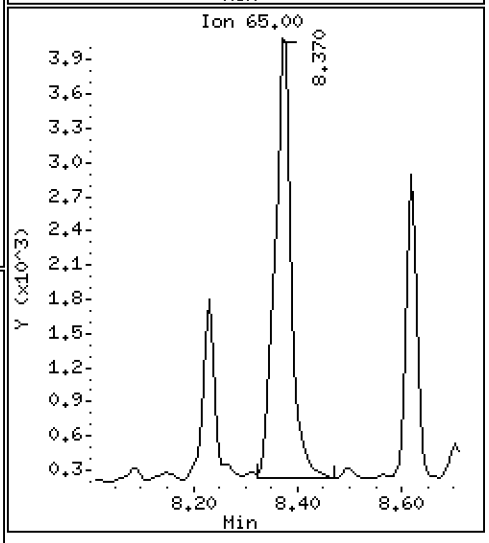
3 Phenol

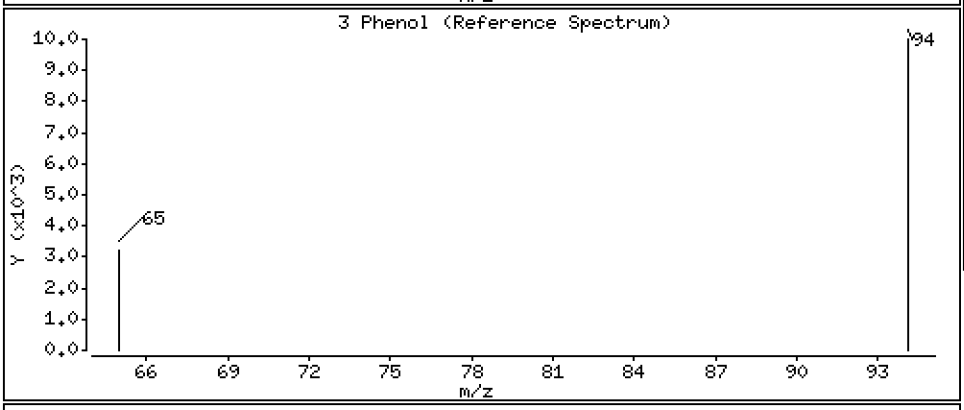
Concentration: 0.5298 ug/L

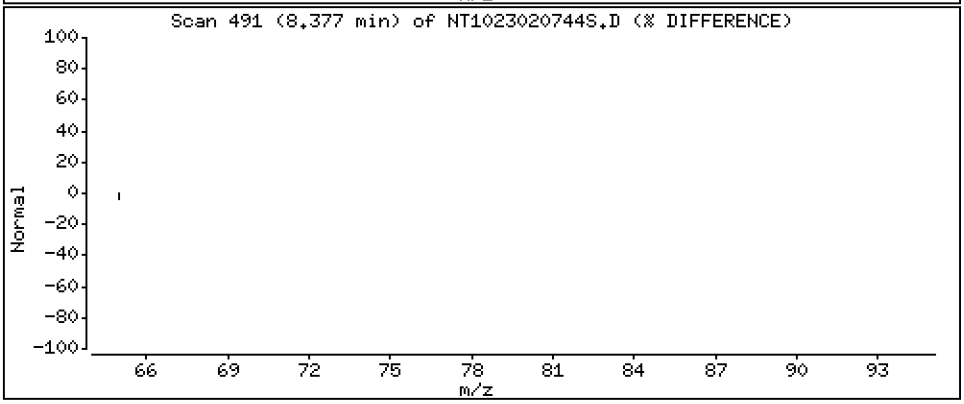












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

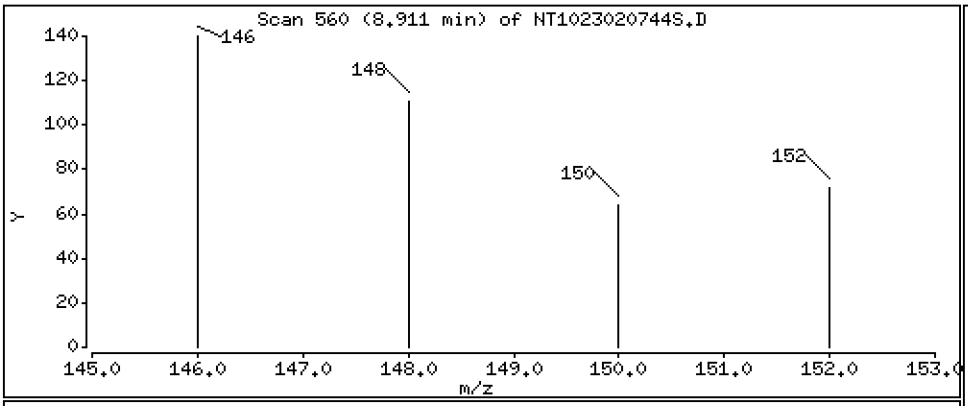
Operator: DSD

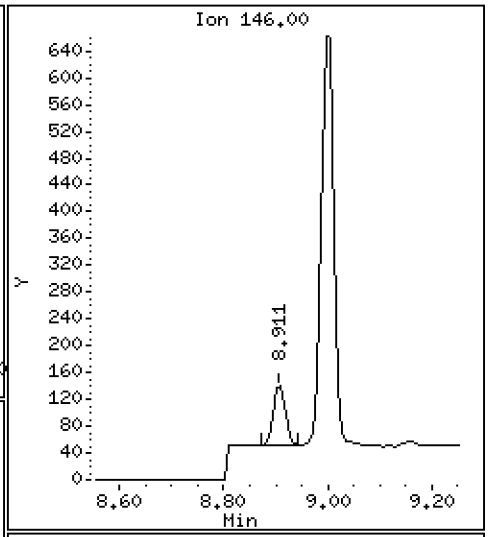
Column phase: ZB-5msi

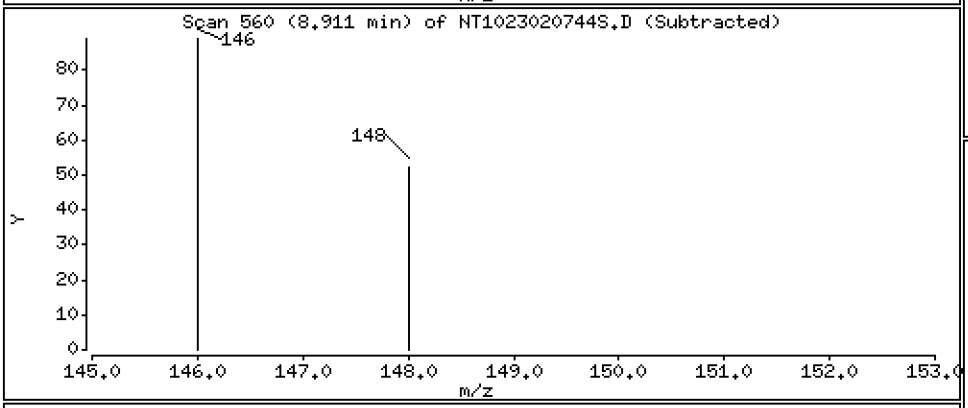
Column diameter: 0.25

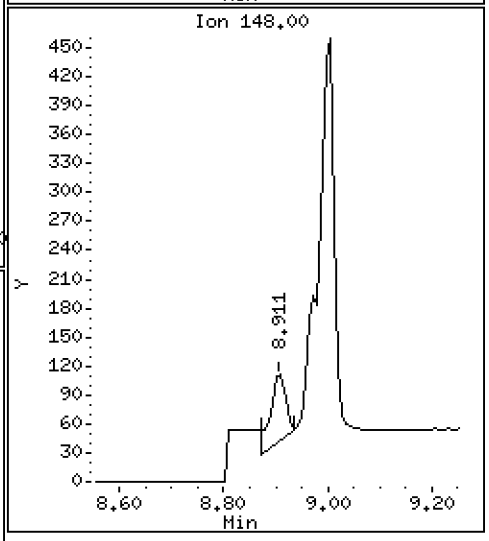
7 1,3-Dichlorobenzene

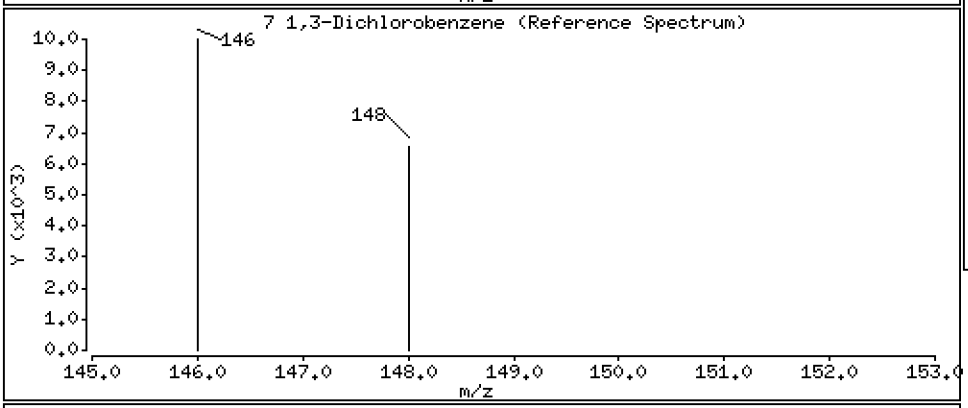
Concentration: 0.003454 ug/L

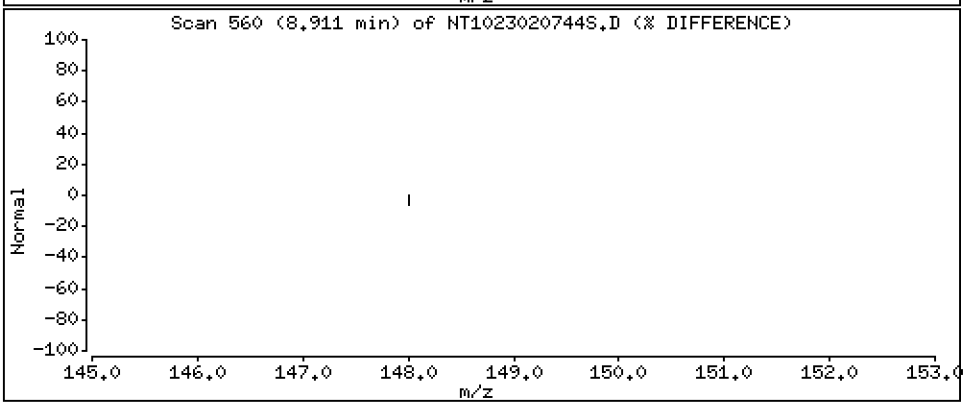












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

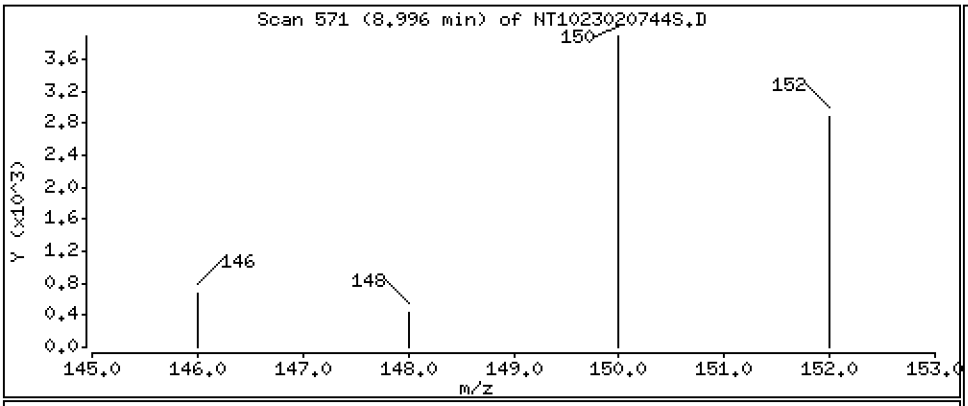
Operator: DSD

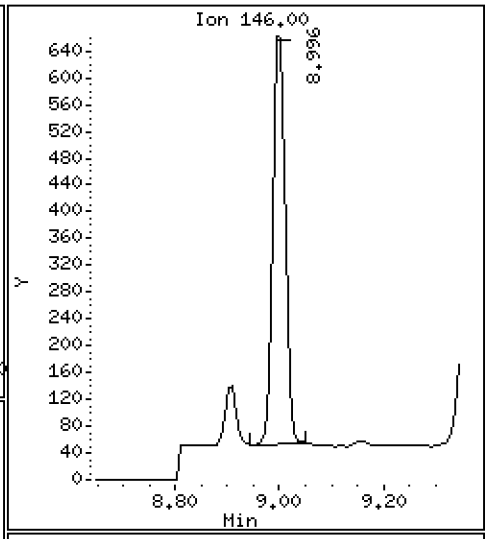
Column phase: ZB-5msi

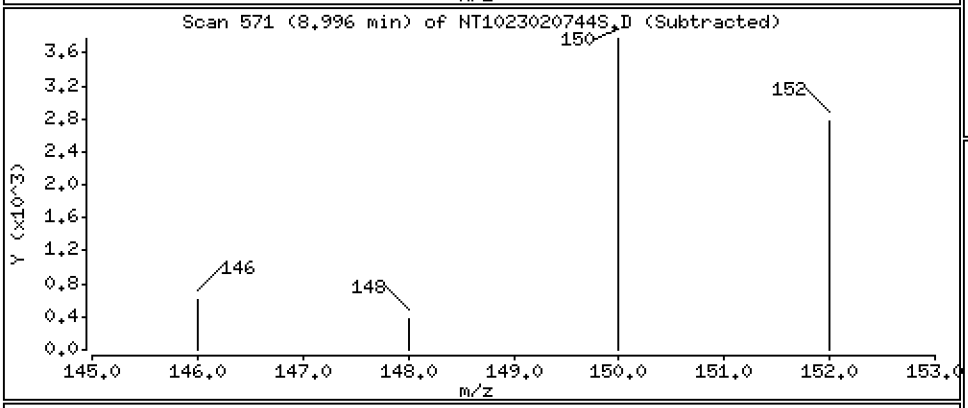
Column diameter: 0.25

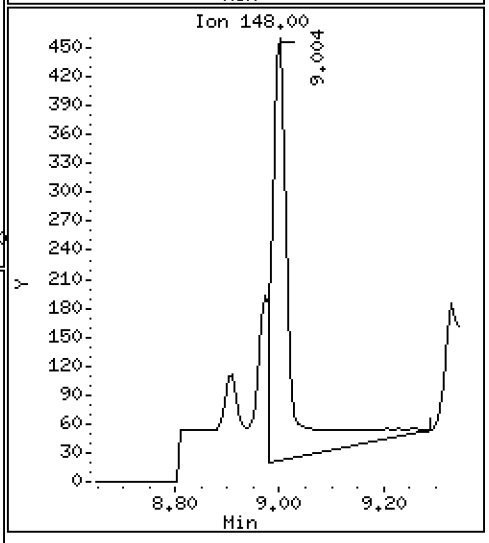
9 1,4-Dichlorobenzene

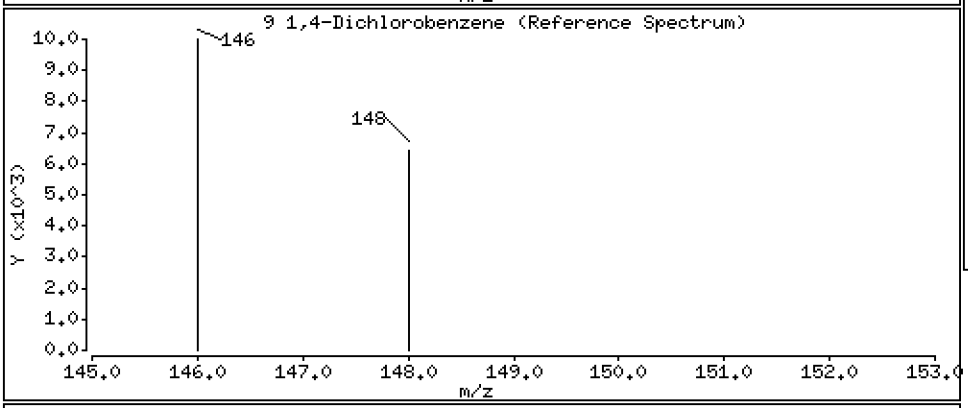
Concentration: 0.02556 ug/L

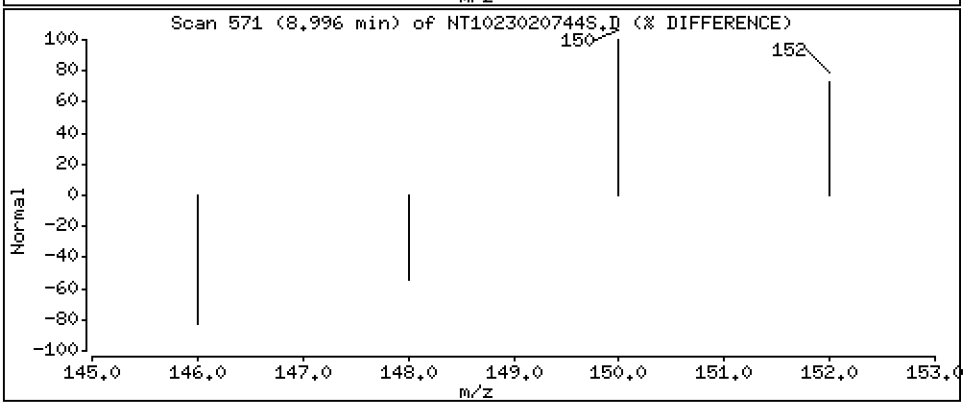












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

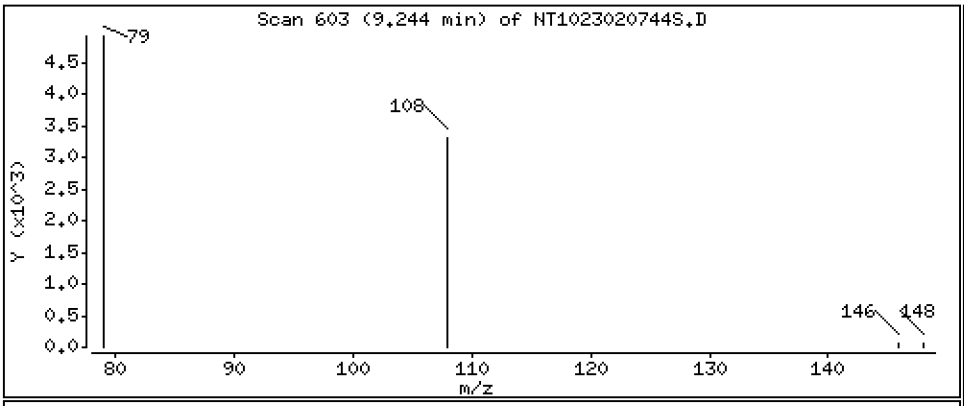
Operator: DSD

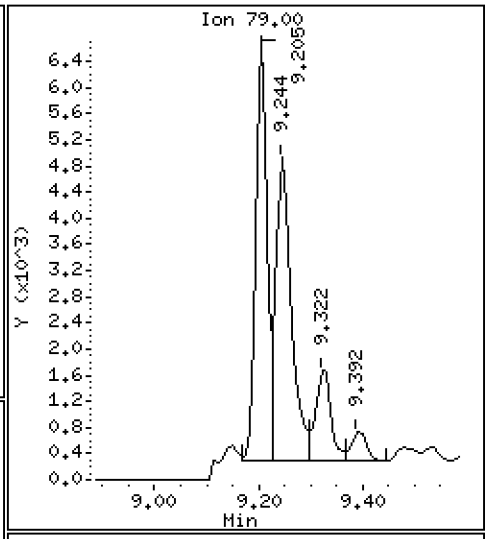
Column phase: ZB-5msi

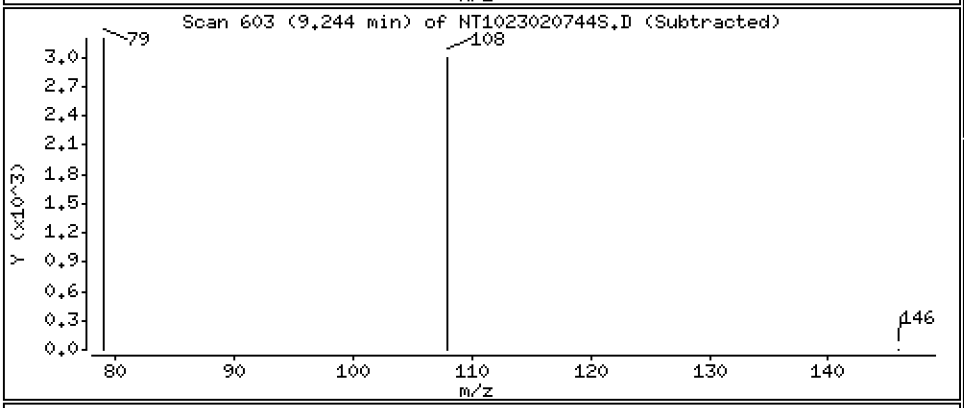
Column diameter: 0.25

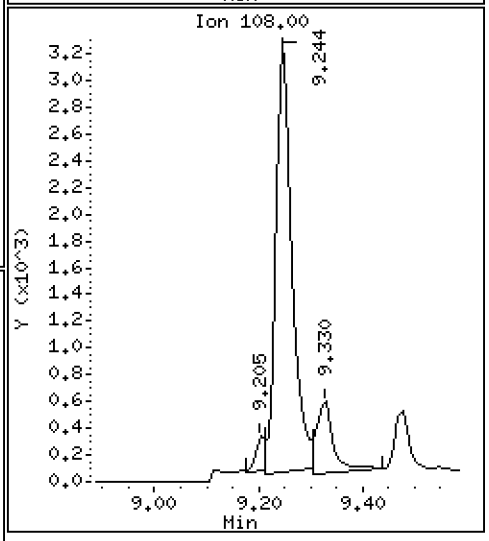
11 Benzyl alcohol

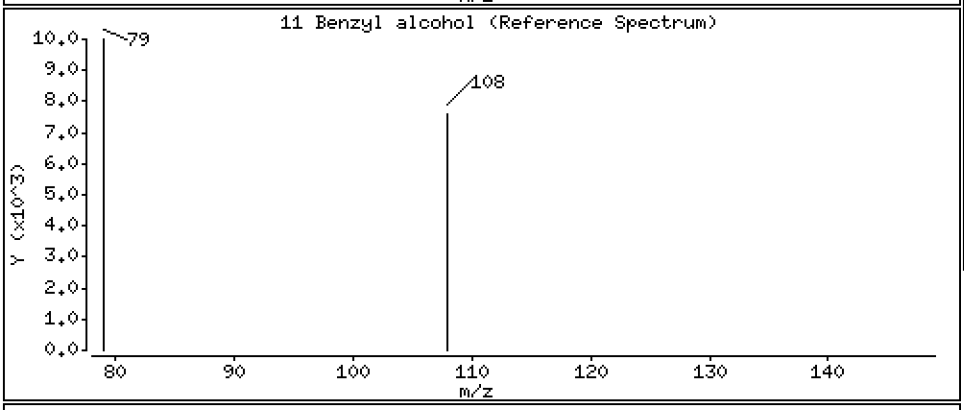
Concentration: 0.4606 ug/L

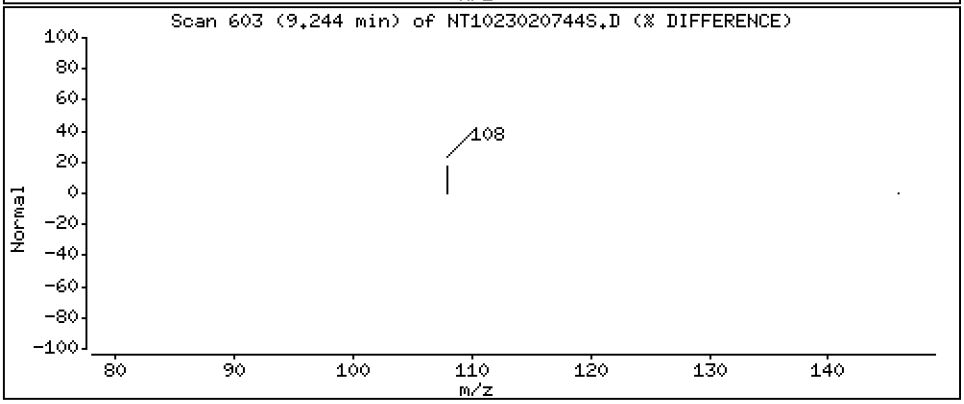












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

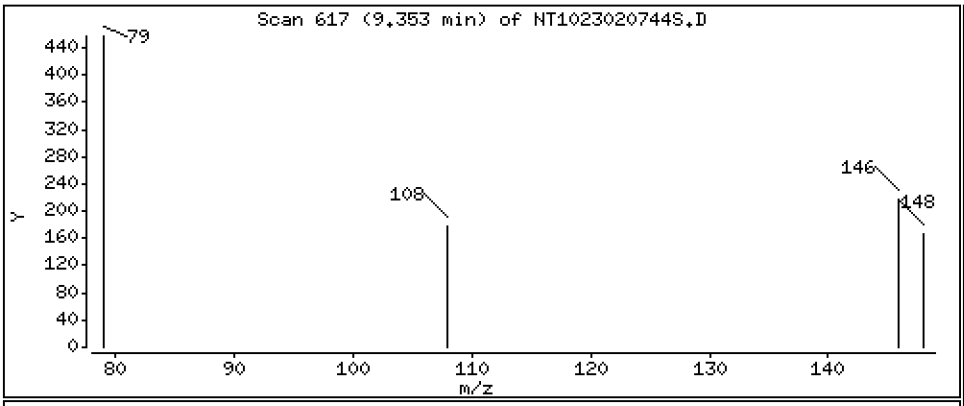
Operator: DSD

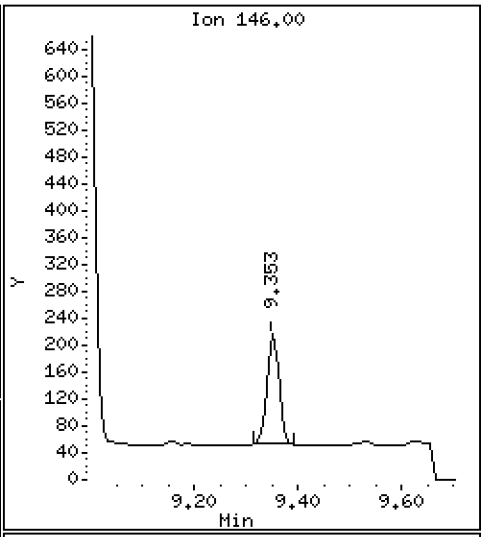
Column phase: ZB-5msi

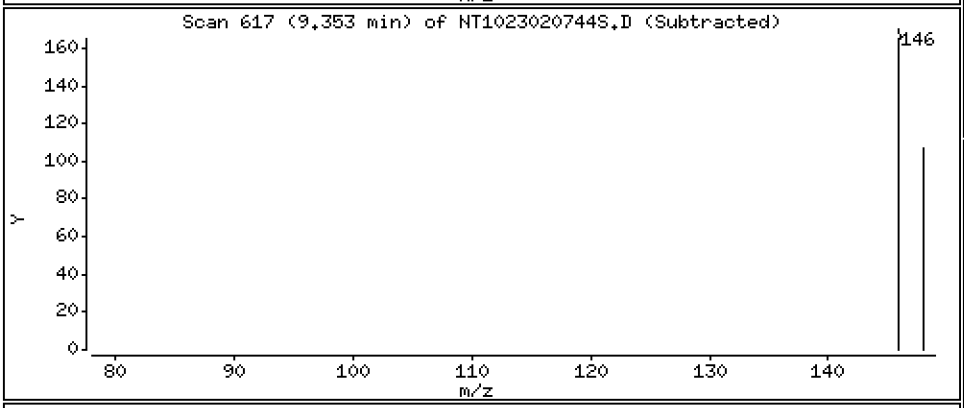
Column diameter: 0.25

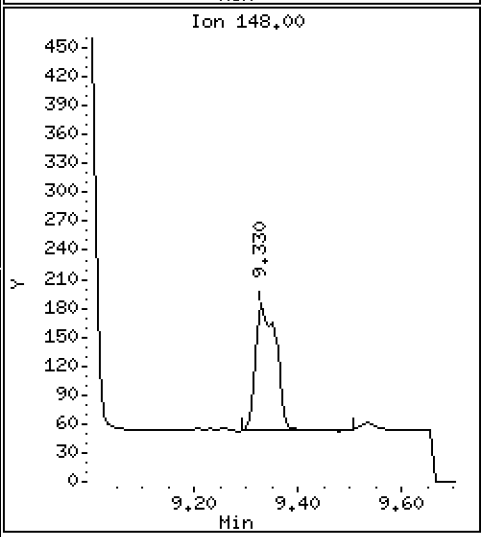
12 1,2-Dichlorobenzene

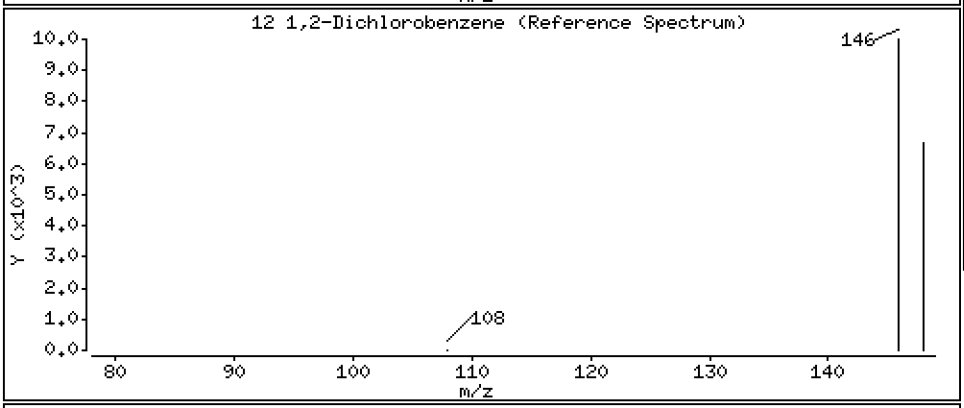
Concentration: 0.006587 ug/L

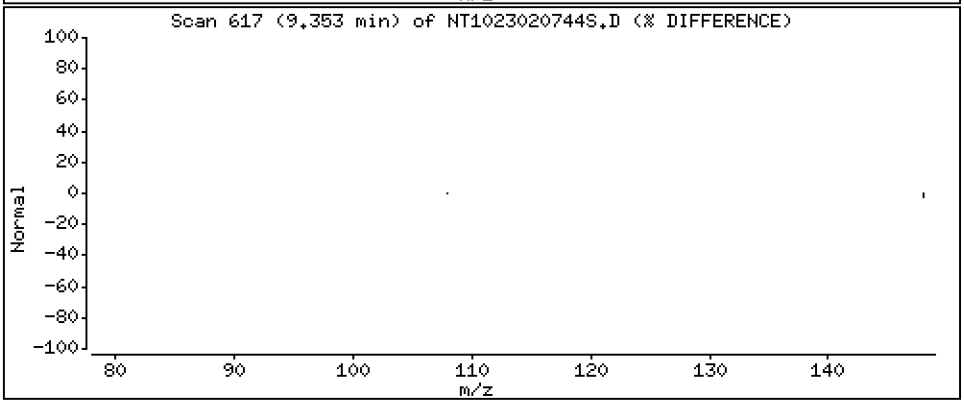












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

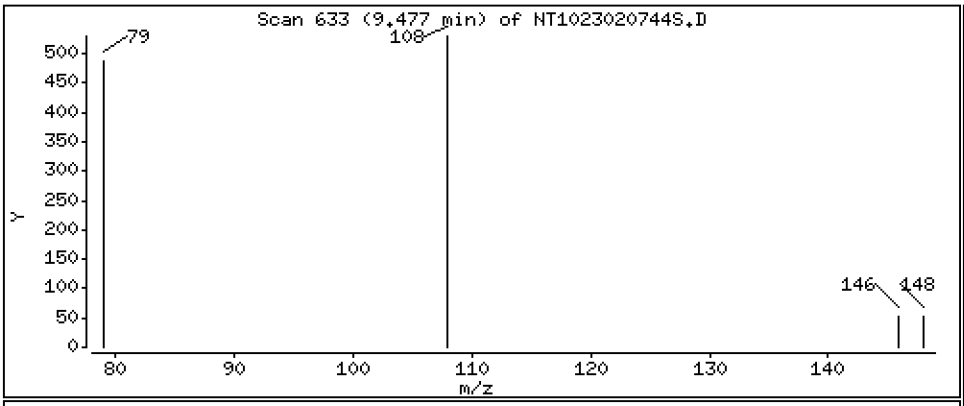
Operator: DSD

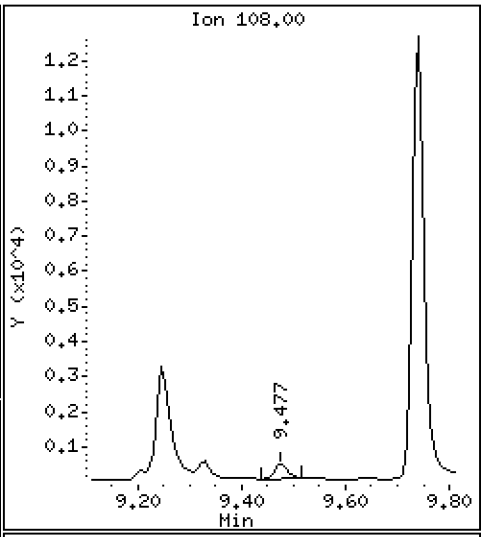
Column phase: ZB-5msi

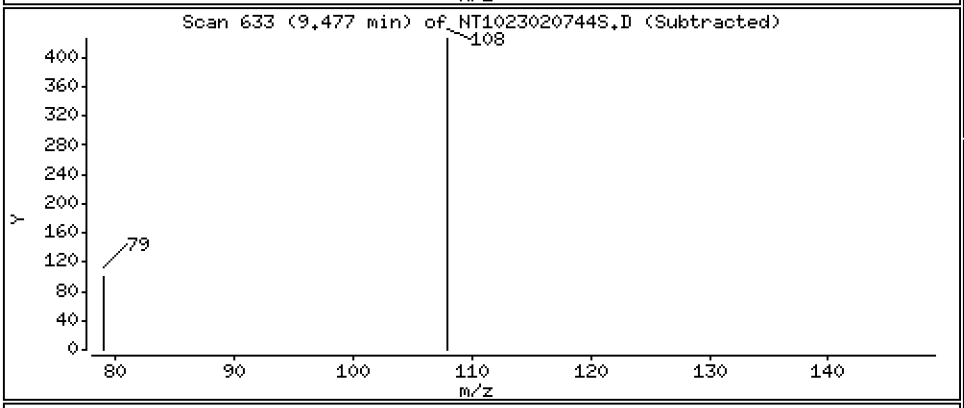
Column diameter: 0.25

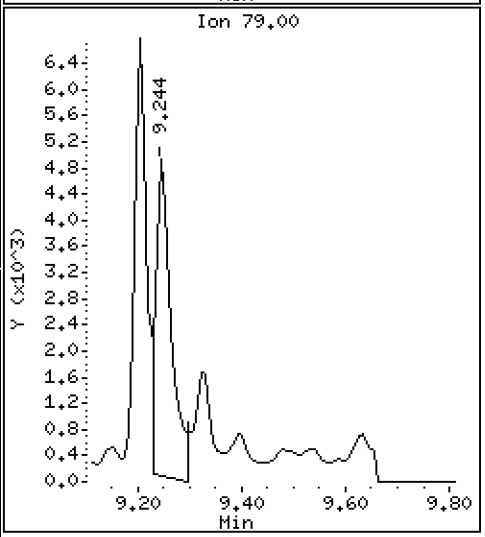
13 2-Methylphenol

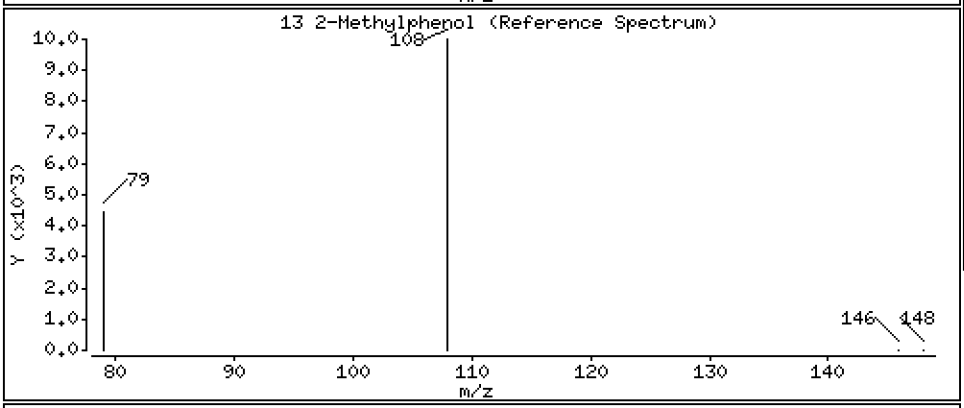
Concentration: 0.02361 ug/L

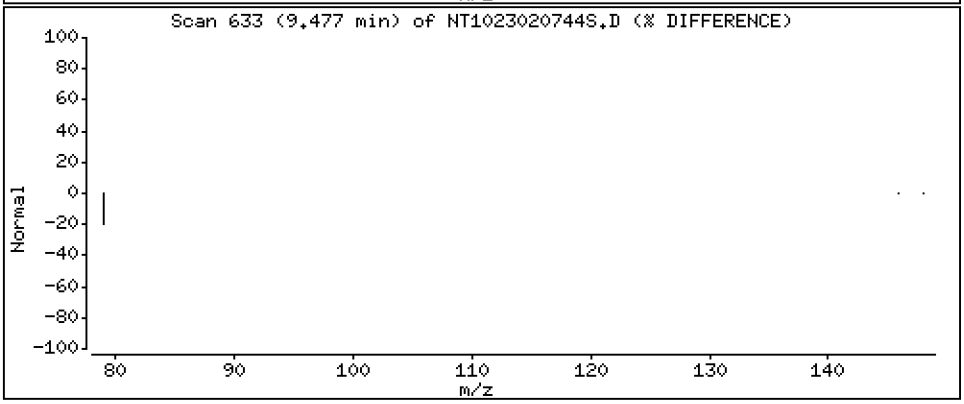












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

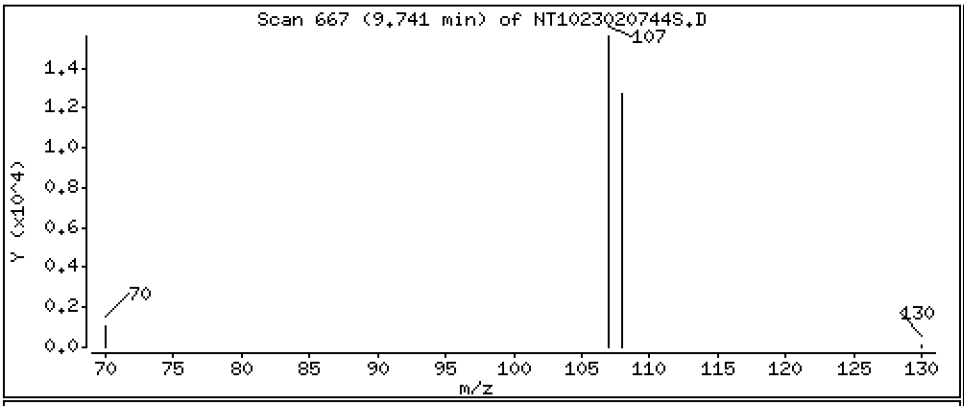
Operator: DSD

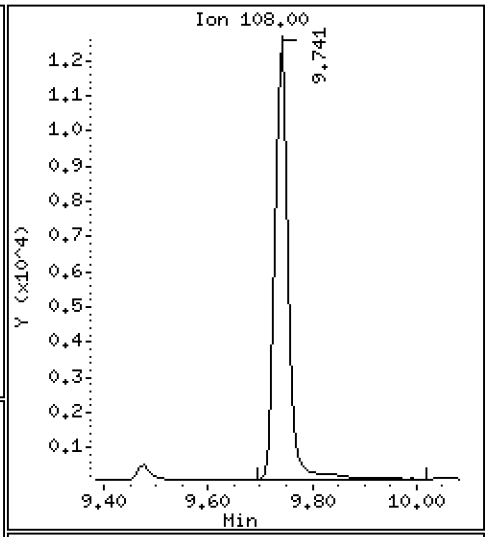
Column phase: ZB-5msi

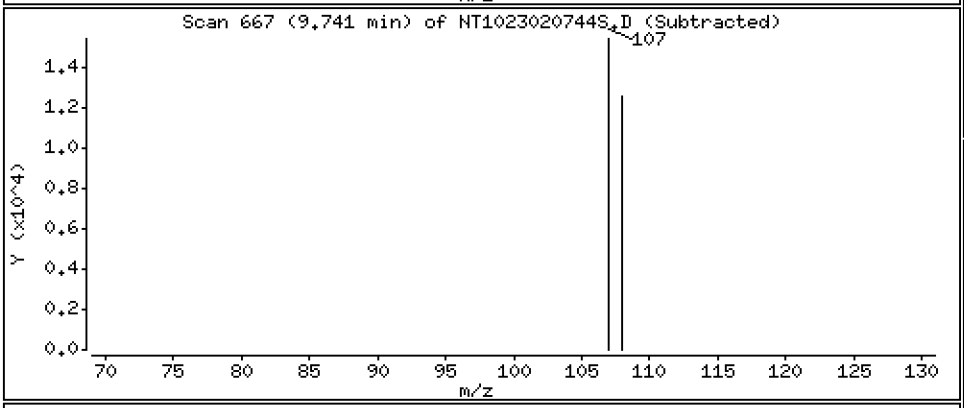
Column diameter: 0.25

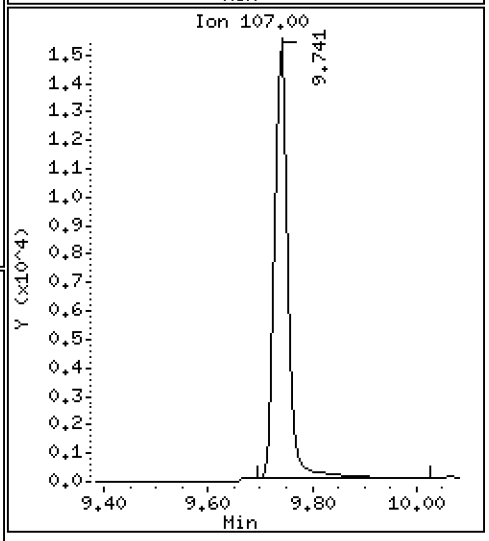
15 4-Methylphenol

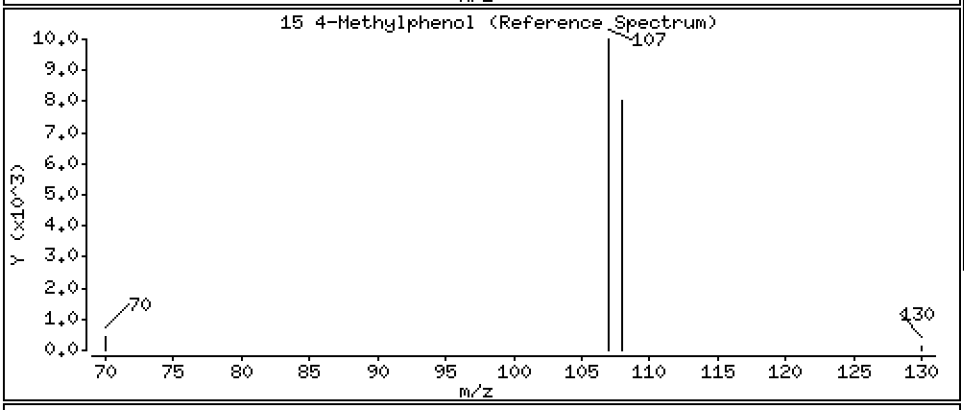
Concentration: 0.7286 ug/L

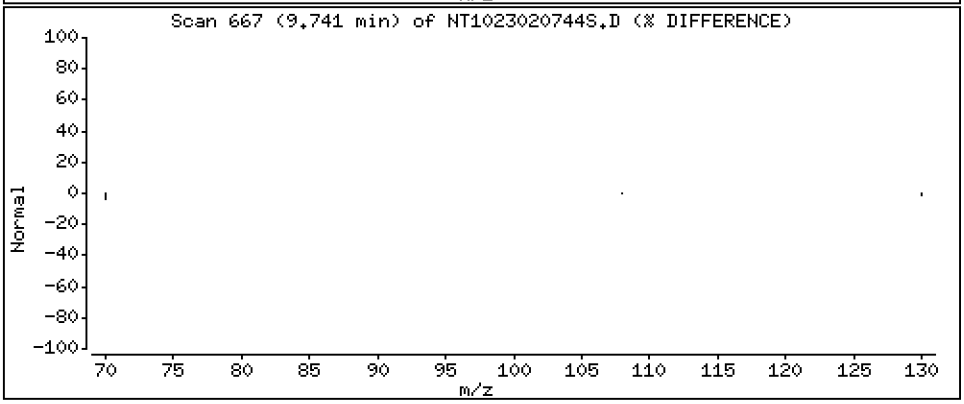












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

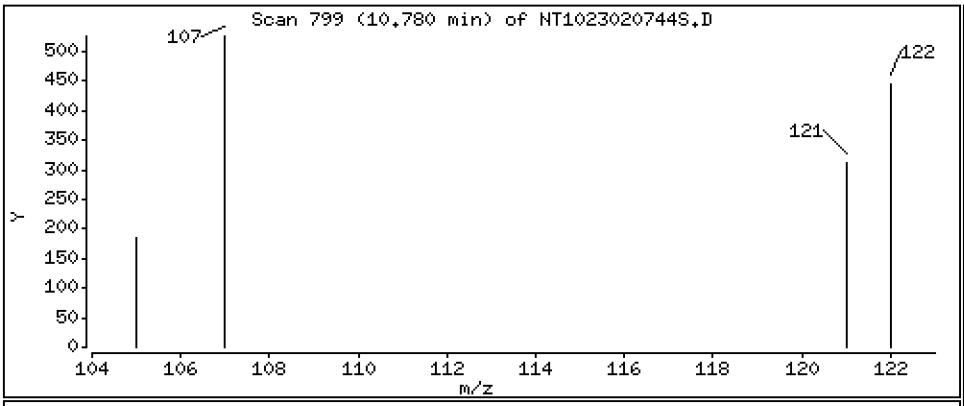
Operator: DSD

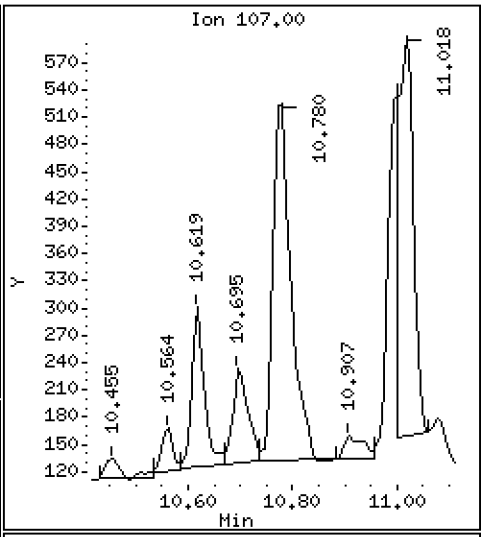
Column phase: ZB-5msi

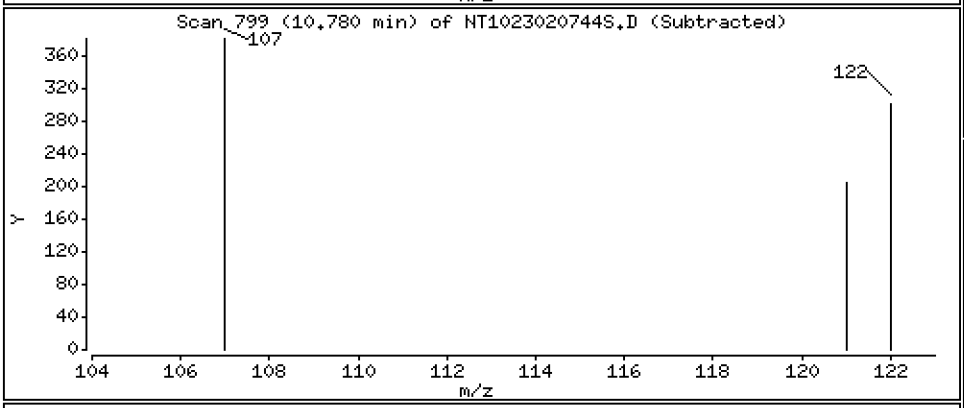
Column diameter: 0.25

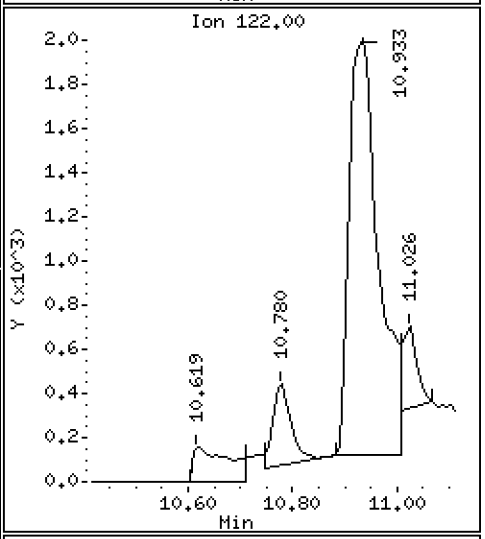
22 2,4-Dimethylphenol

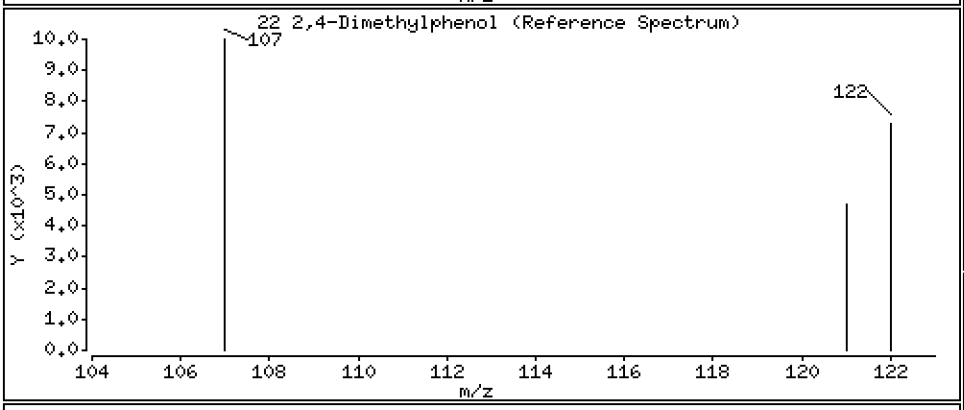
Concentration: 0.02901 ug/L

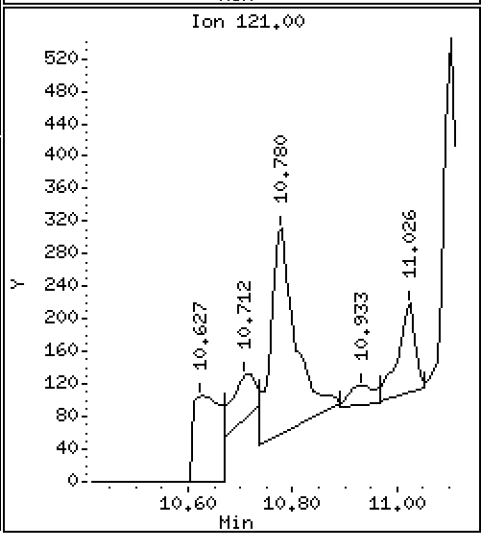


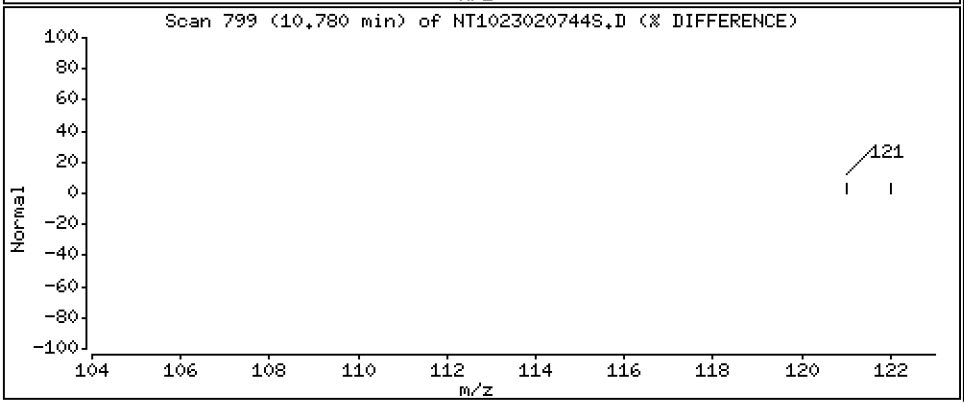












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

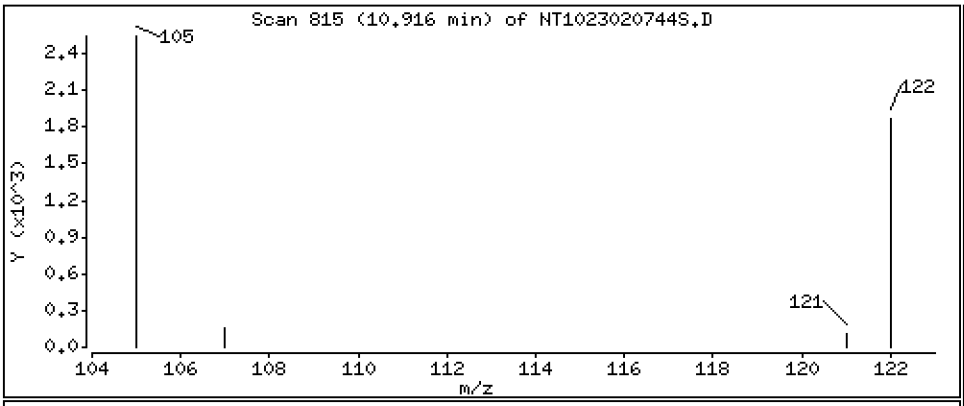
Operator: DSD

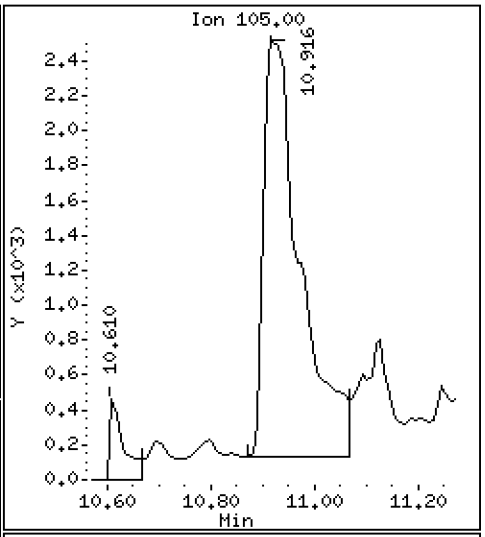
Column phase: ZB-5msi

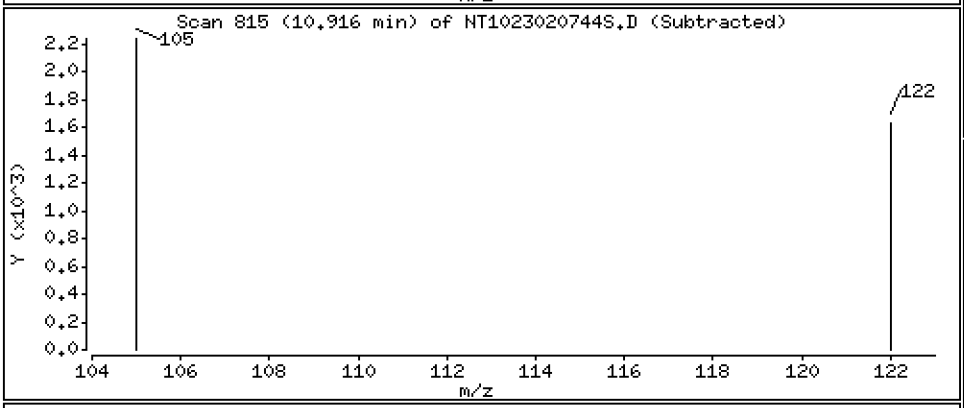
Column diameter: 0.25

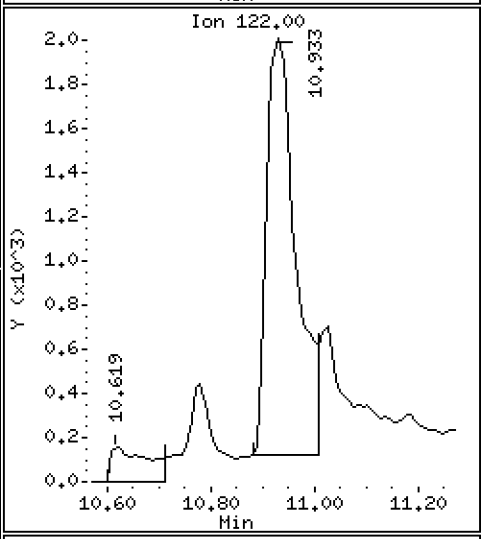
24 Benzoic acid

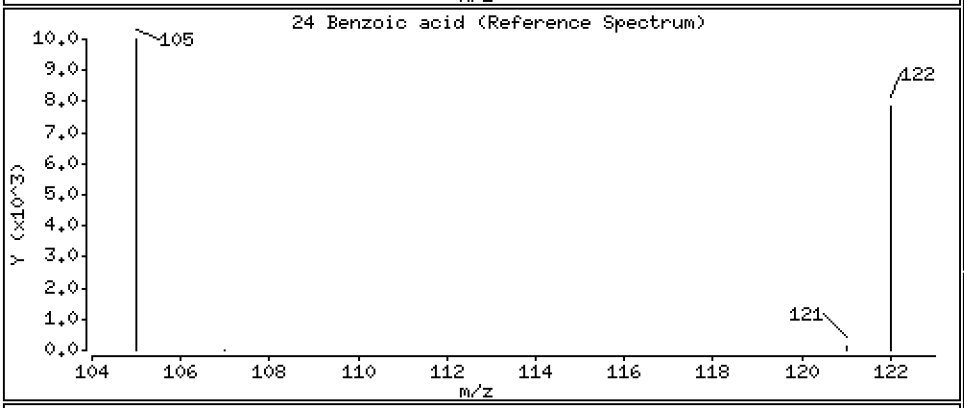
Concentration: 0.7928 ug/L

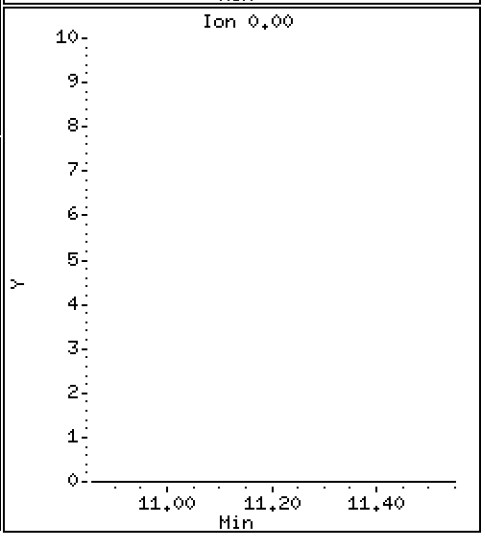


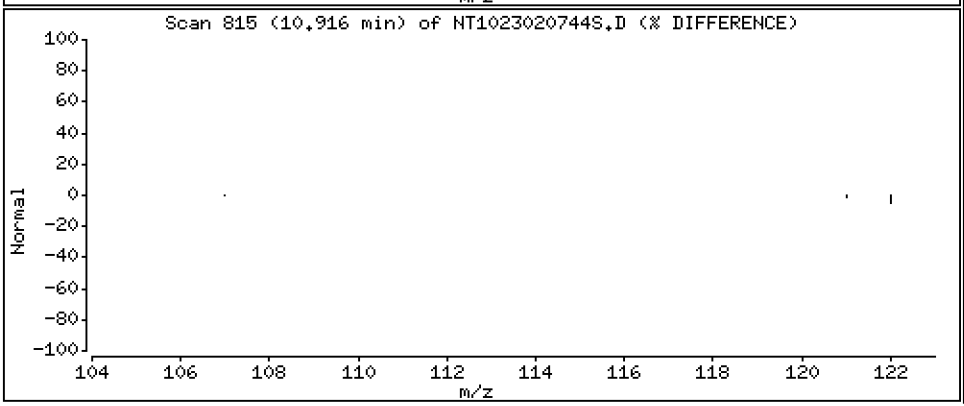












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

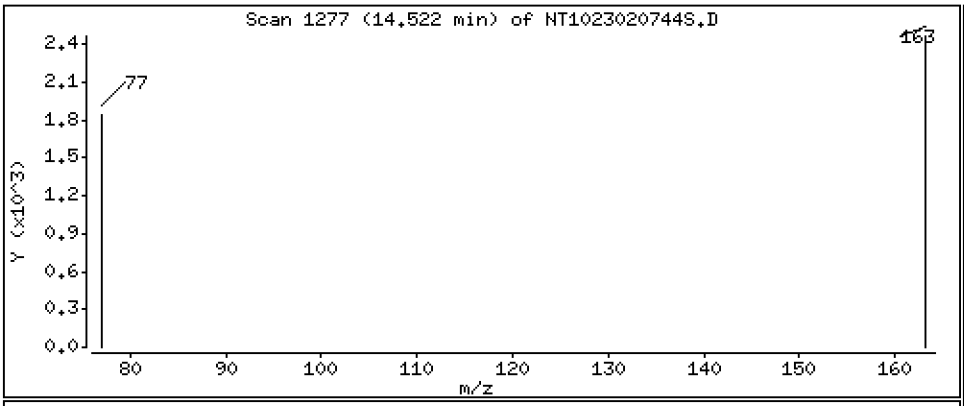
Operator: DSD

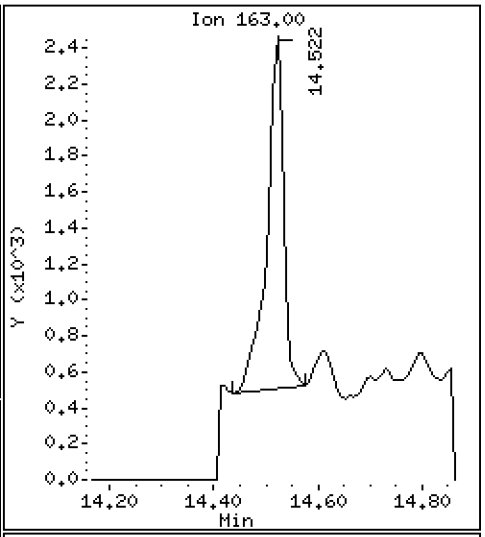
Column phase: ZB-5msi

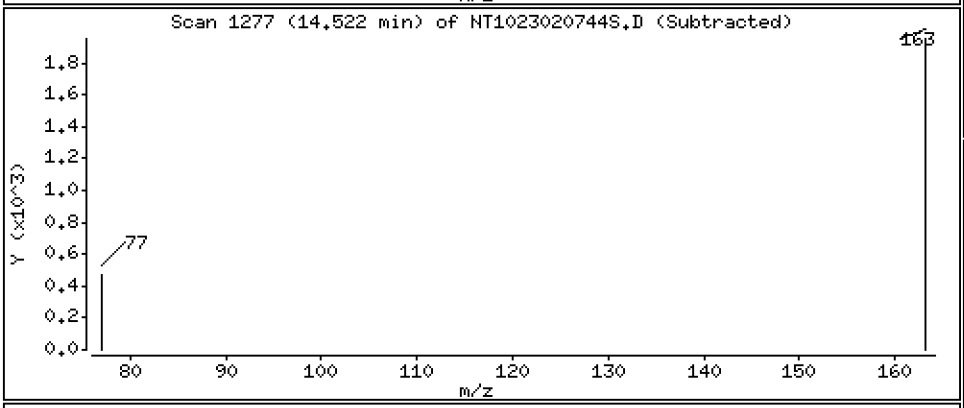
Column diameter: 0.25

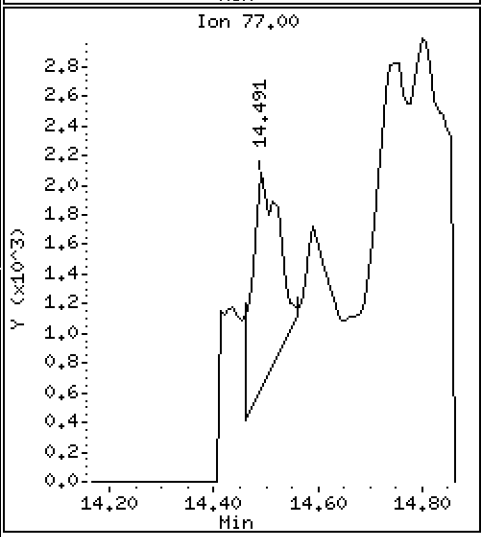
39 Dimethylphthalate

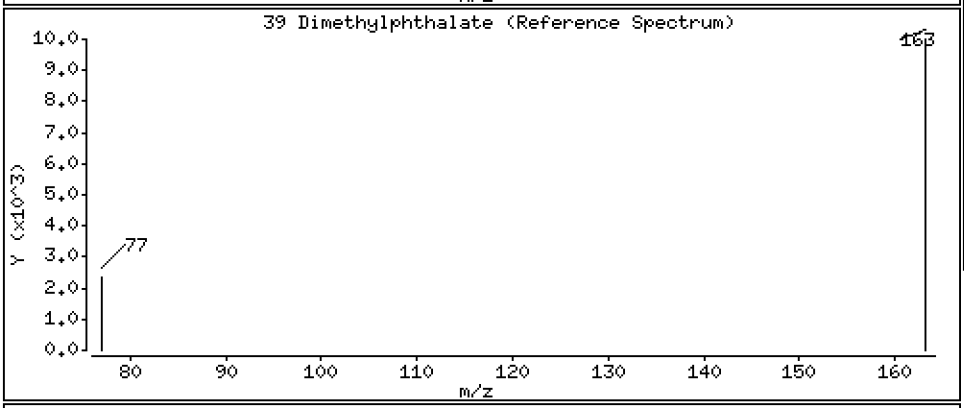
Concentration: 0.1028 ug/L

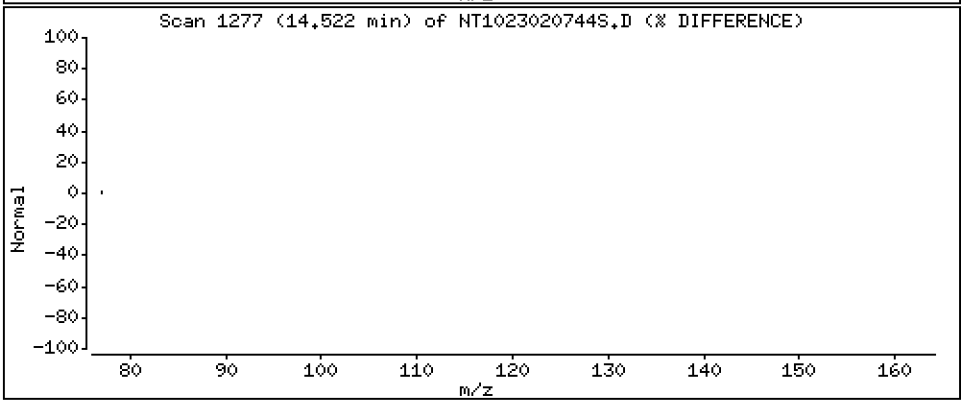












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

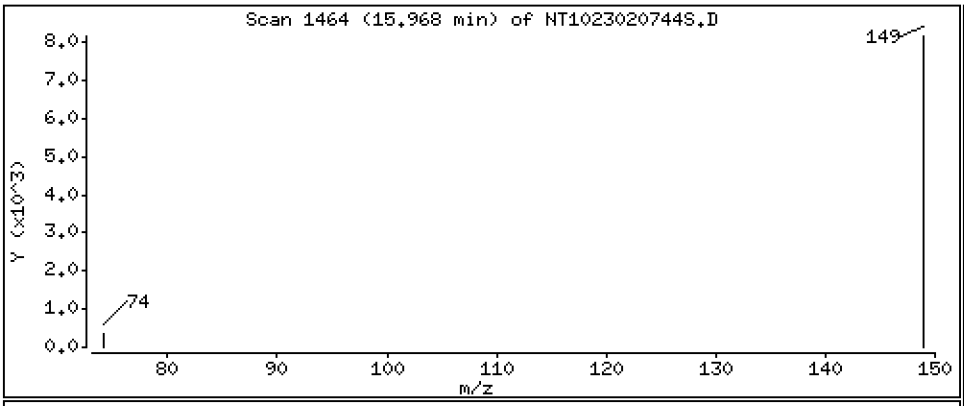
Operator: DSD

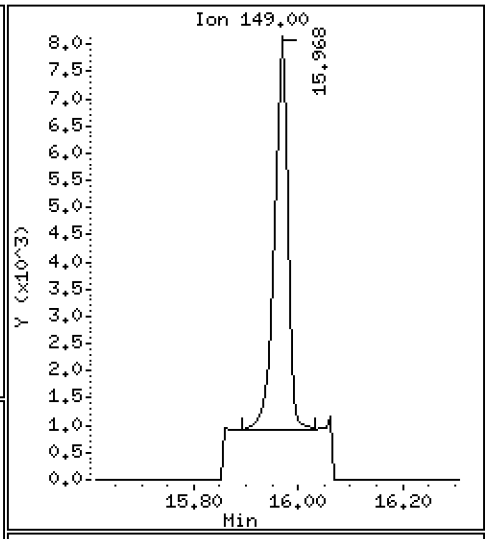
Column phase: ZB-5msi

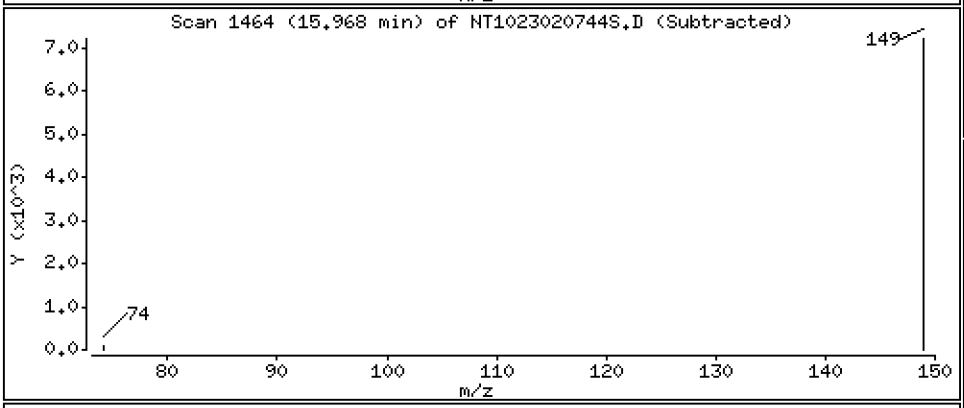
Column diameter: 0.25

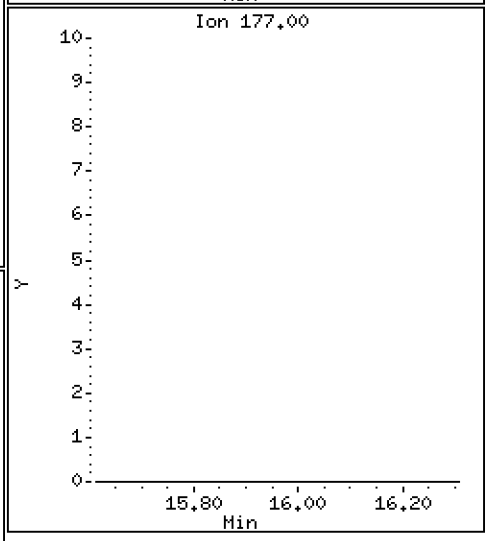
50 Diethylphthalate

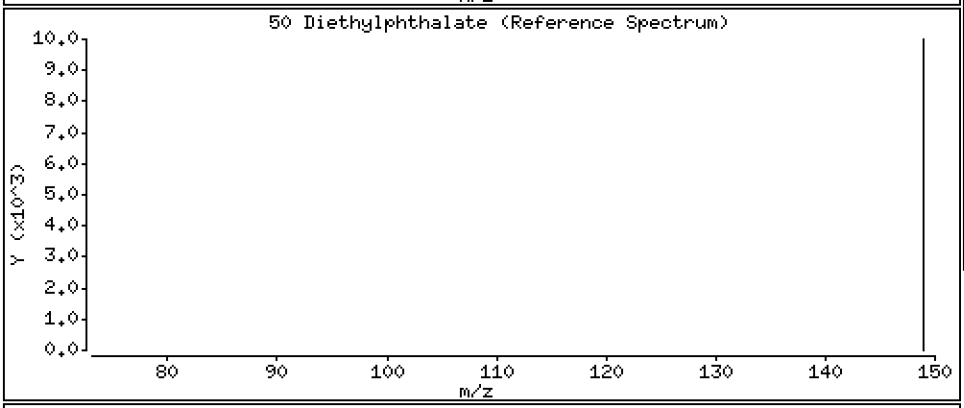
Concentration: 0.2089 ug/L

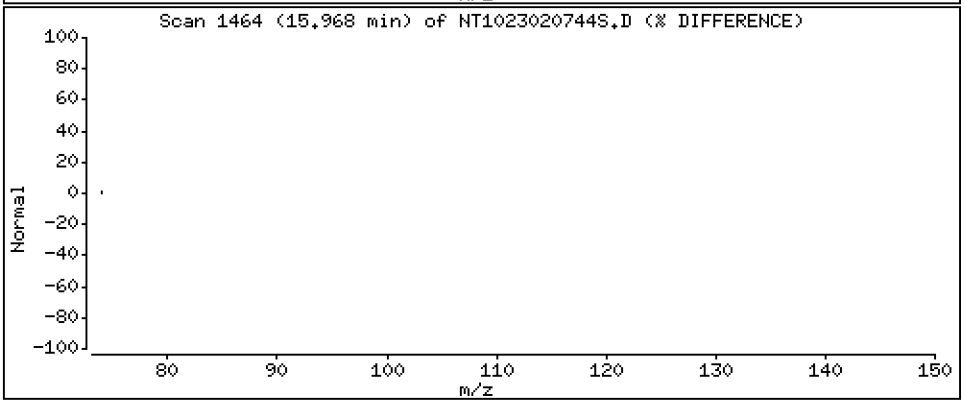












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

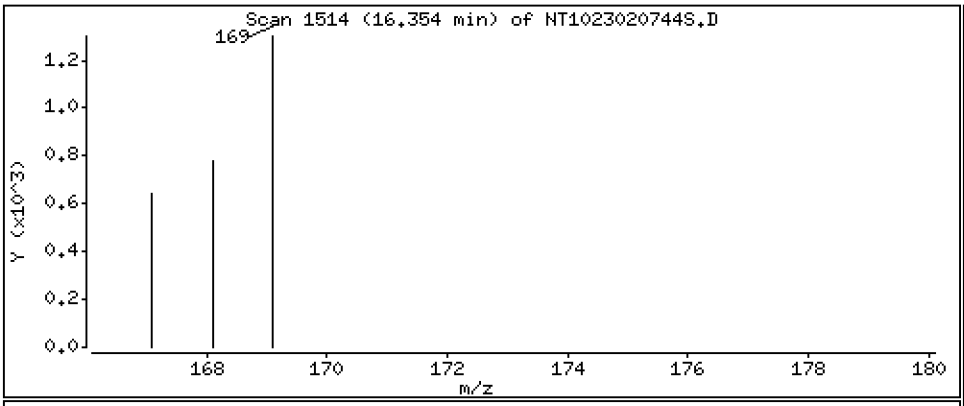
Operator: DSD

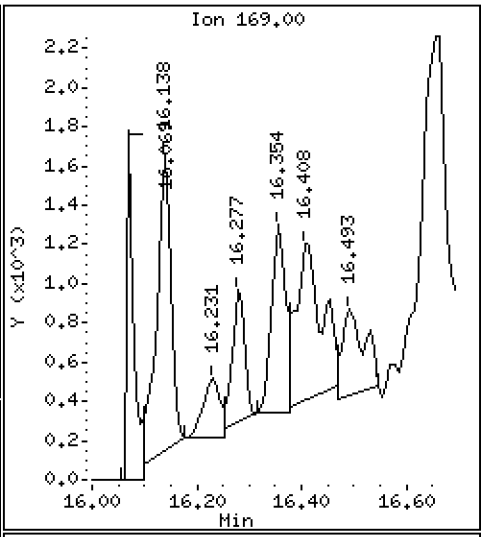
Column phase: ZB-5msi

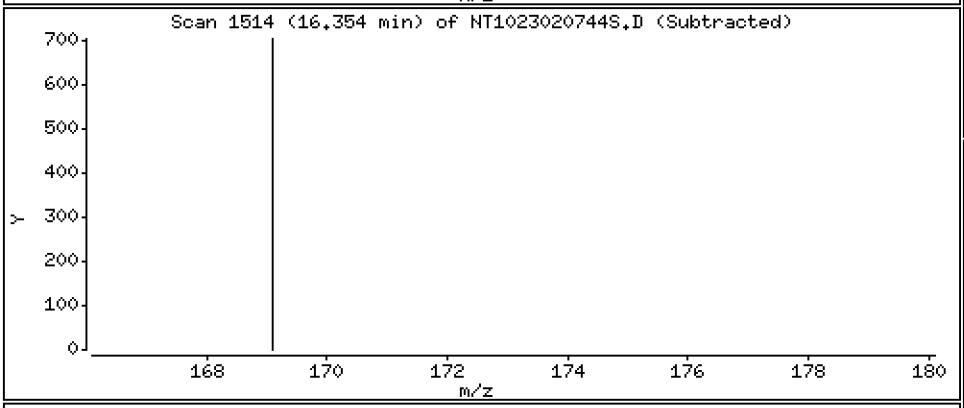
Column diameter: 0.25

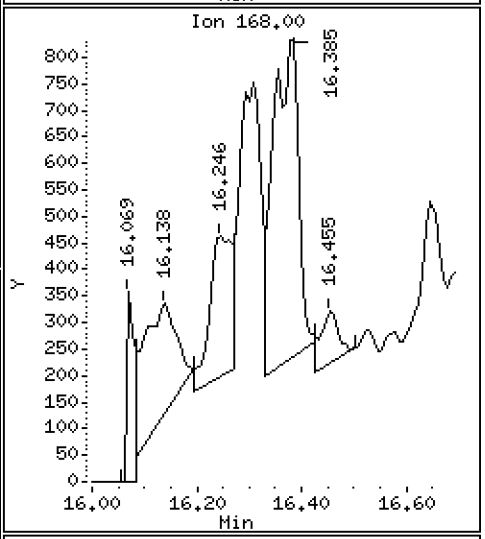
54 N-Nitrosodiphenylamine

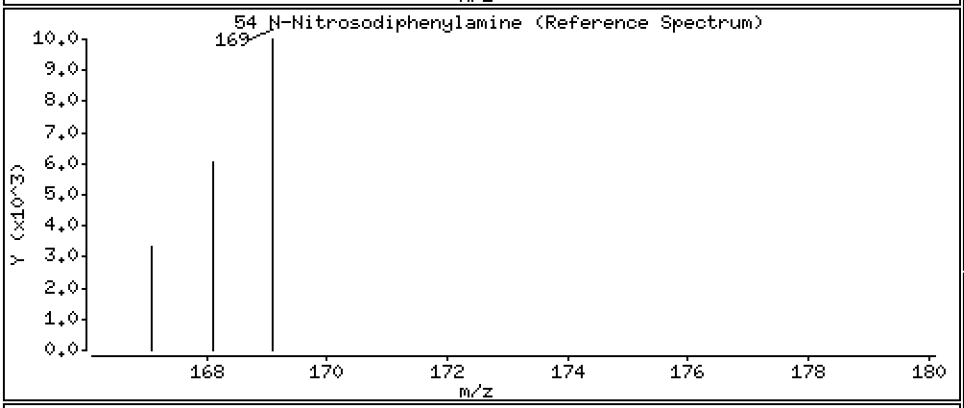
Concentration: 0.03490 ug/L

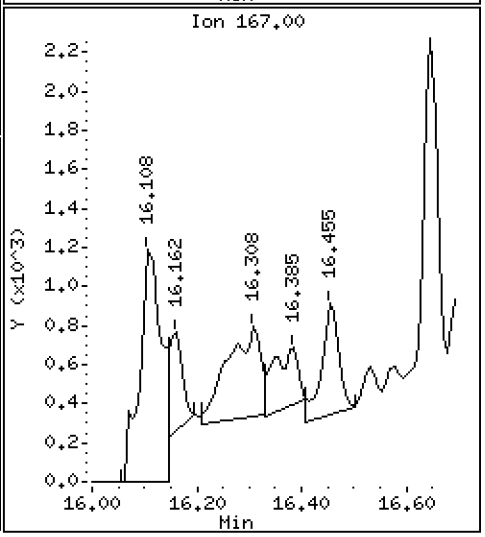


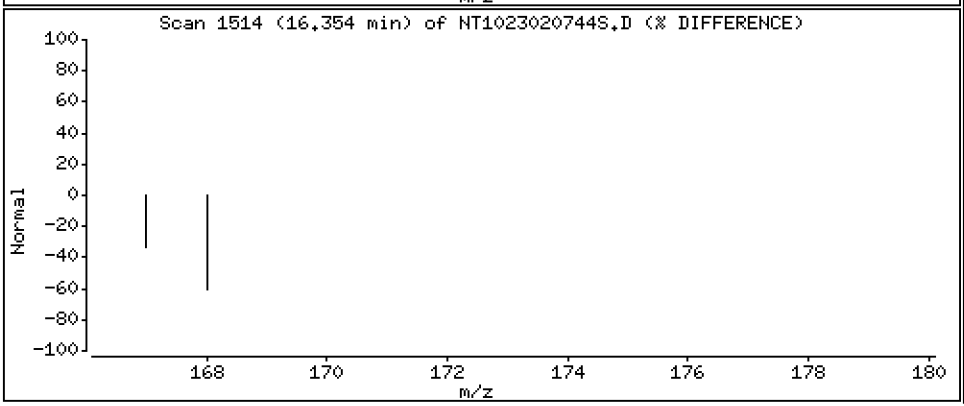












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

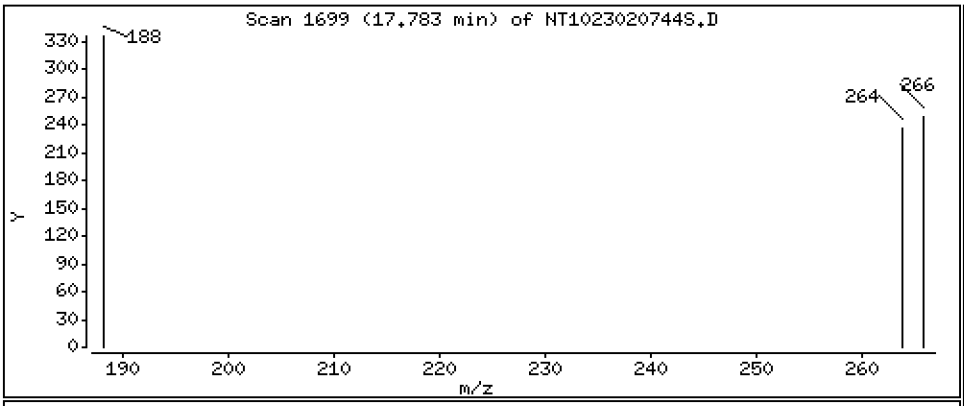
Operator: DSD

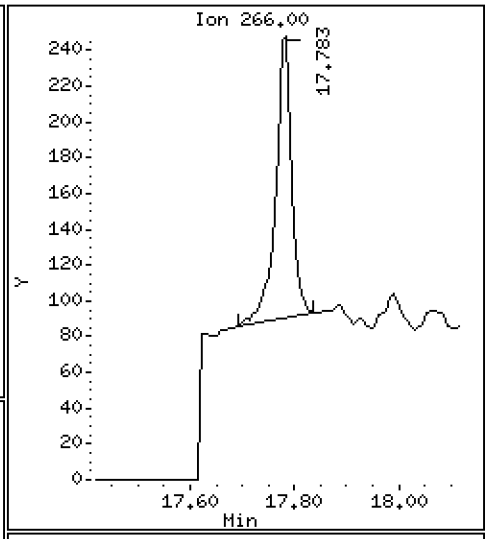
Column phase: ZB-5msi

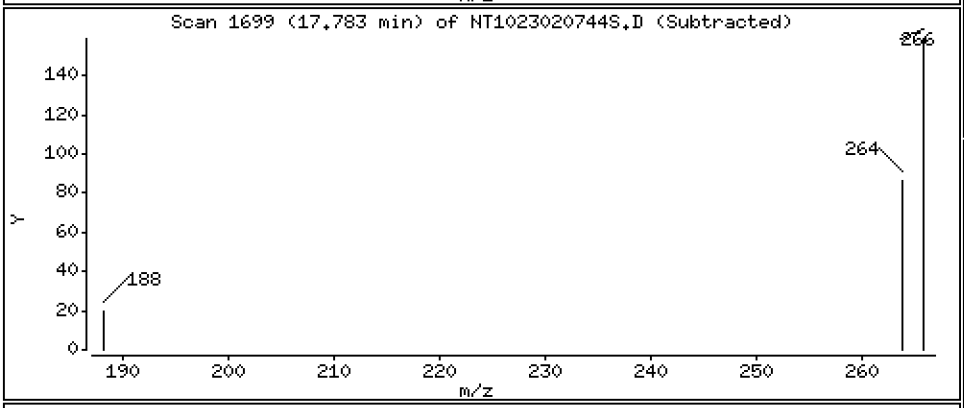
Column diameter: 0.25

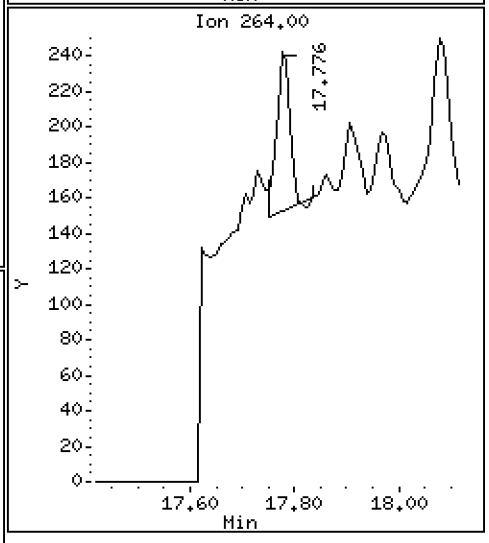
58 Pentachlorophenol

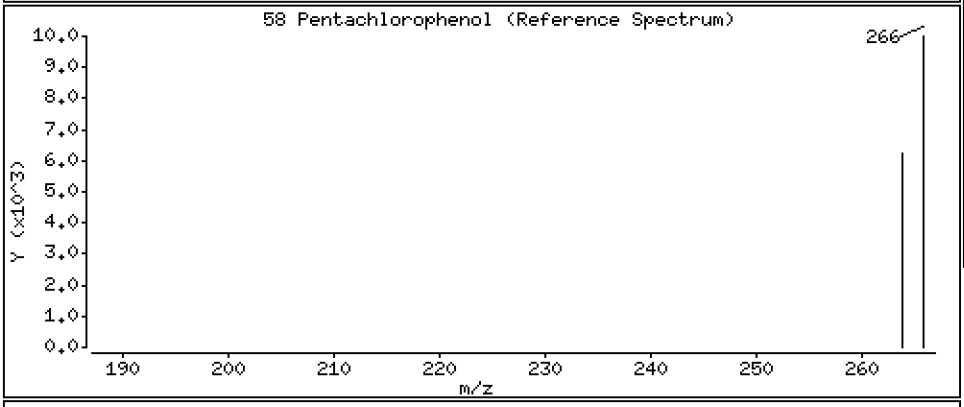
Concentration: 0.04249 ug/L

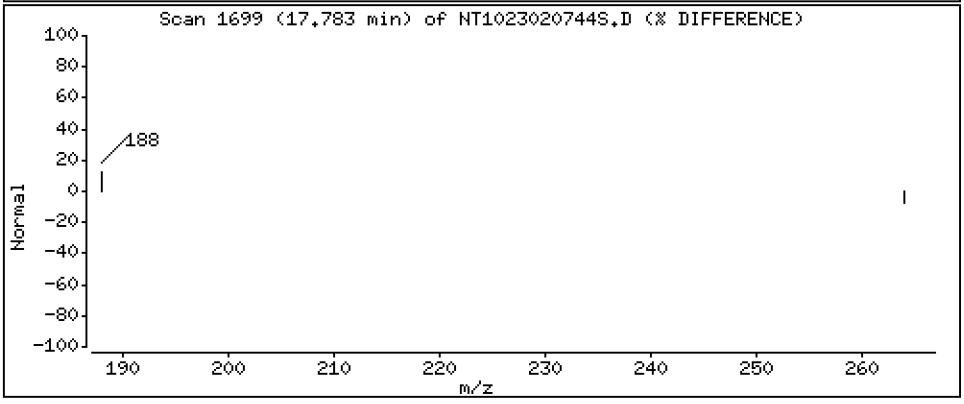












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

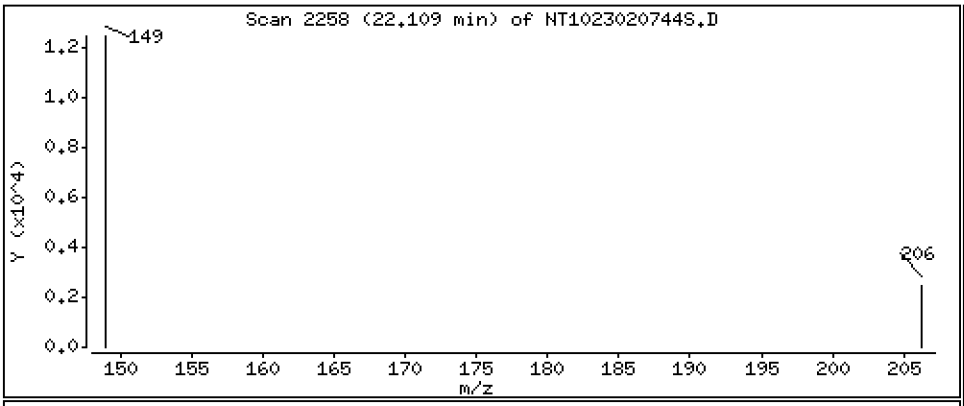
Operator: DSD

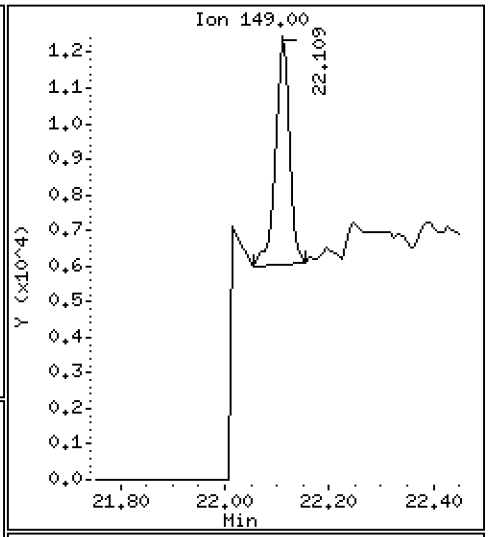
Column phase: ZB-5msi

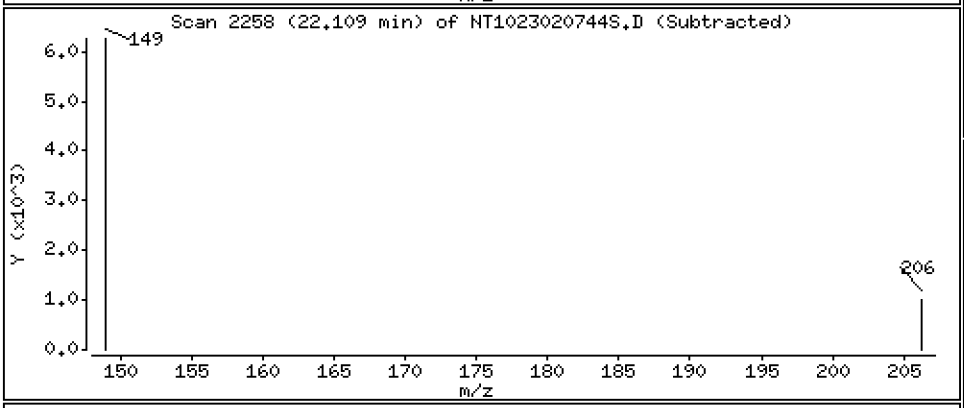
Column diameter: 0.25

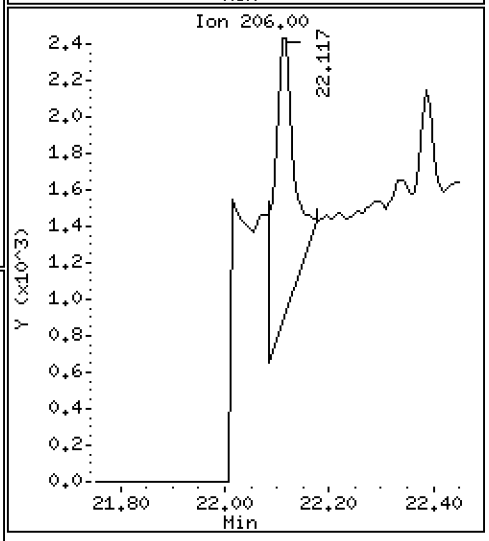
67 Butylbenzylphthalate

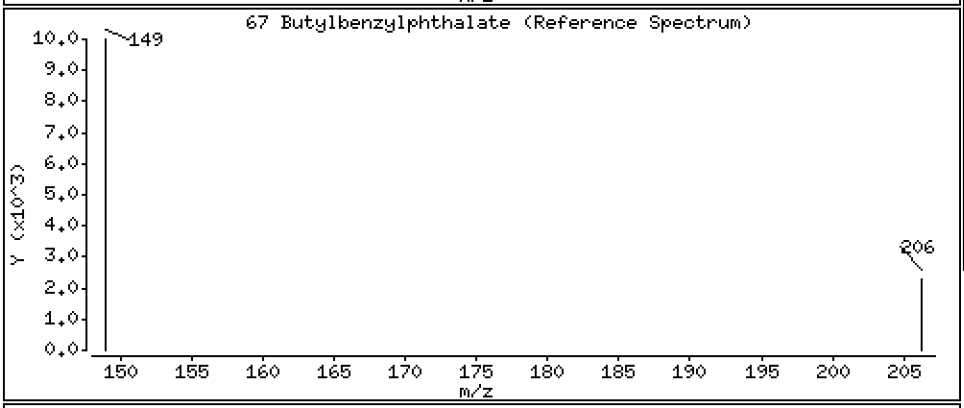
Concentration: 0.3073 ug/L

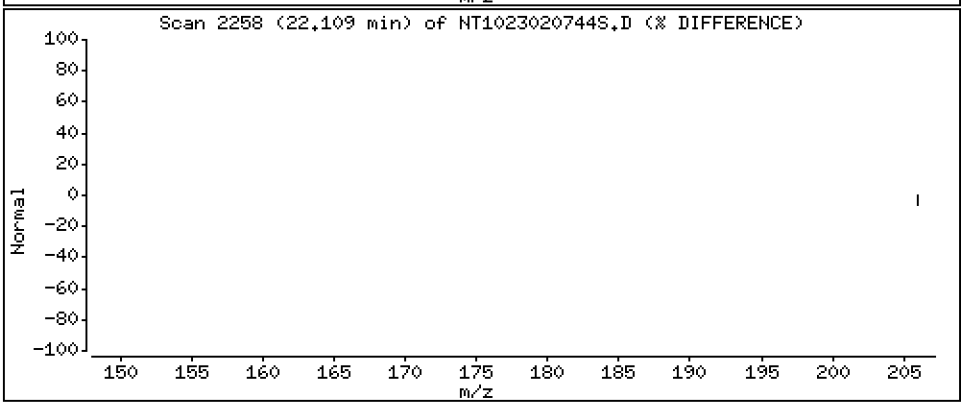












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Date : 08-FEB-2023 15:03

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-04

Volume Injected (uL): 1.0

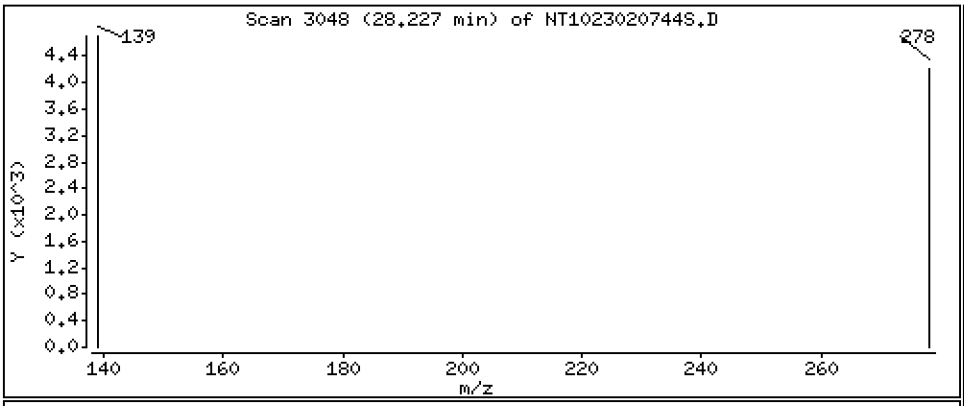
Operator: DSD

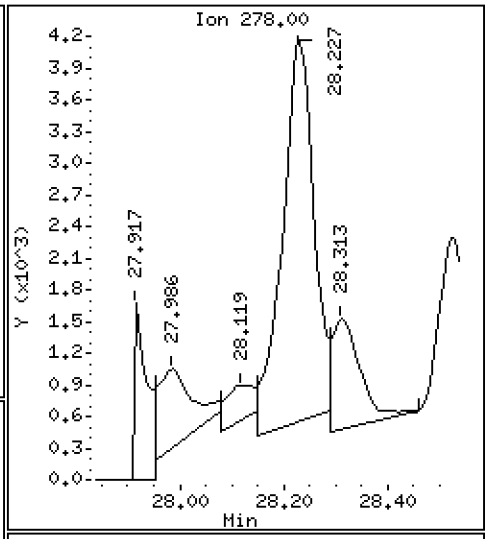
Column phase: ZB-5msi

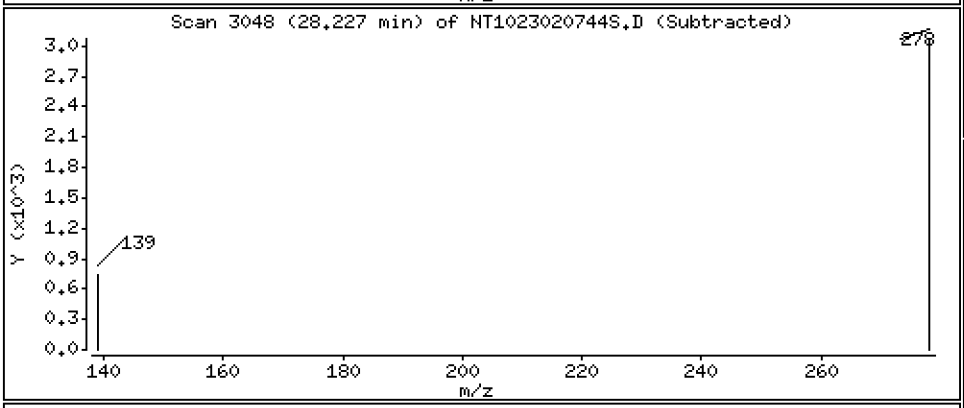
Column diameter: 0.25

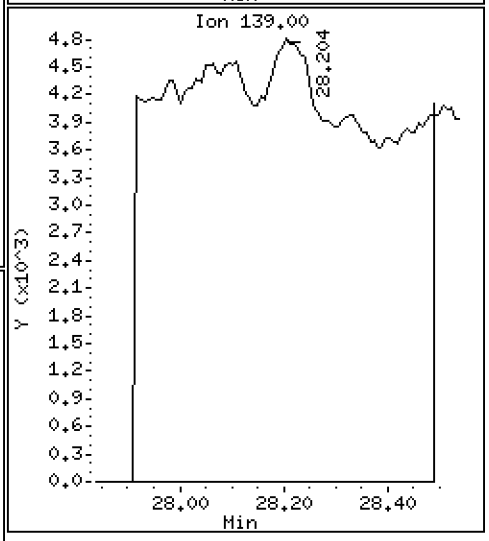
79 Dibenzo(a,h)anthracene

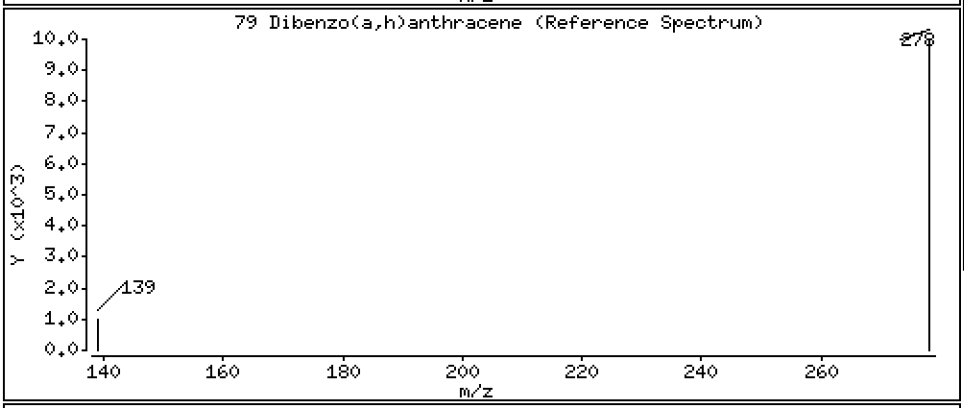
Concentration: 0.2489 ug/L

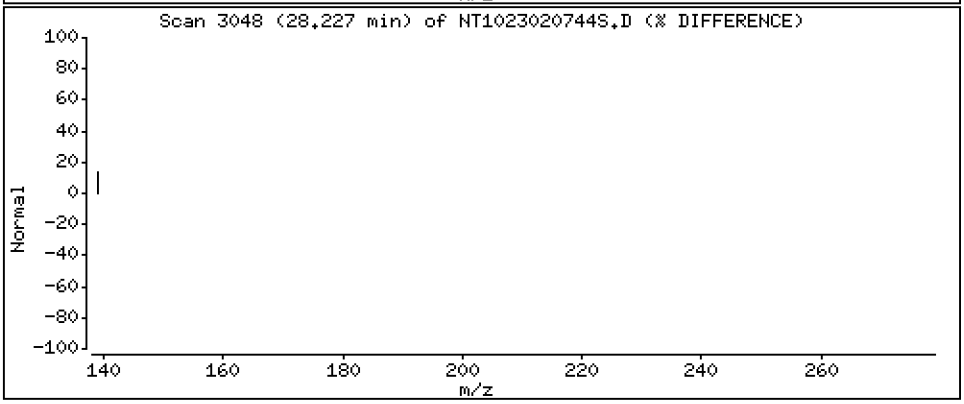












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020744S.D
Lab Smp Id: 22L0459-04
Inj Date : 08-FEB-2023 15:03 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : 22L0459-04
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
$	1 2-Fluorophenol	112	6.793	6.777	(0.757)	146371	5.16254	5.163(R)
	3 Phenol	94	8.377	8.369	(0.934)	22650	0.52979	0.5298
	7 1,3-Dichlorobenzene	146	8.910	8.902	(0.993)	133	0.00345	0.003454(M)
*	8 1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	93235	4.00000	
	9 1,4-Dichlorobenzene	146	8.995	8.996	(1.003)	962	0.02556	0.02556(M)
	11 Benzyl alcohol	79	9.244	9.236	(1.030)	9607	0.46063	0.4606
	12 1,2-Dichlorobenzene	146	9.352	9.353	(1.042)	242	0.00659	0.006587(M)
	13 2-Methylphenol	108	9.477	9.461	(1.056)	689	0.02361	0.02361(M)
	15 4-Methylphenol	108	9.741	9.733	(1.086)	21690	0.72862	0.7286
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	10.780	10.763	(0.943)	934	0.02901	0.02901
	24 Benzoic acid	105	10.915	10.924	(0.955)	11839	0.79277	0.7928(H)
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.427	11.427	(1.000)	366510	4.00000	
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	39 Dimethylphthalate	163	14.522	14.514	(0.967)	4133	0.10278	0.1028(M)
*	42 Acenaphthene-d10	162	15.017	15.009	(1.000)	172531	4.00000	
	50 Diethylphthalate	149	15.968	15.960	(1.063)	12652	0.20892	0.2089(M)
	54 N-Nitrosodiphenylamine	169	16.354	16.346	(0.907)	1864	0.03490	0.03490
	57 Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.783	17.768	(0.986)	336	0.04249	0.04249(M)
*	59 Phenanthrene-d10	188	18.030	18.023	(1.000)	323195	4.00000	
$	66 Terphenyl-d14	244	21.195	21.164	(0.918)	242275	4.48163	4.482(R)
	67 Butylbenzylphthalate	149	22.108	22.101	(0.957)	11228	0.30727	0.3073(M)
*	69 Chrysene-d12	240	23.092	23.069	(1.000)	243552	4.00000	
*	77 Perylene-d12	264	25.662	25.631	(1.000)	225418	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.227	28.188	(1.100)	15724	0.24890	0.2489(H)
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020744S.D
Lab Smp Id: 22L0459-04
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	93235	-24.56
27 Naphthalene-d8	454738	227369	909476	366510	-19.40
42 Acenaphthene-d10	223117	111559	446234	172531	-22.67
59 Phenanthrene-d10	408770	204385	817540	323195	-20.93
69 Chrysene-d12	339328	169664	678656	243552	-28.23
77 Perylene-d12	382671	191336	765342	225418	-41.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	-0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	-0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.02	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.03	0.04
69 Chrysene-d12	23.07	22.57	23.57	23.09	0.10
77 Perylene-d12	25.63	25.13	26.13	25.66	0.12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020744S.D

Lab ID: 22L0459-04
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 15:03

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

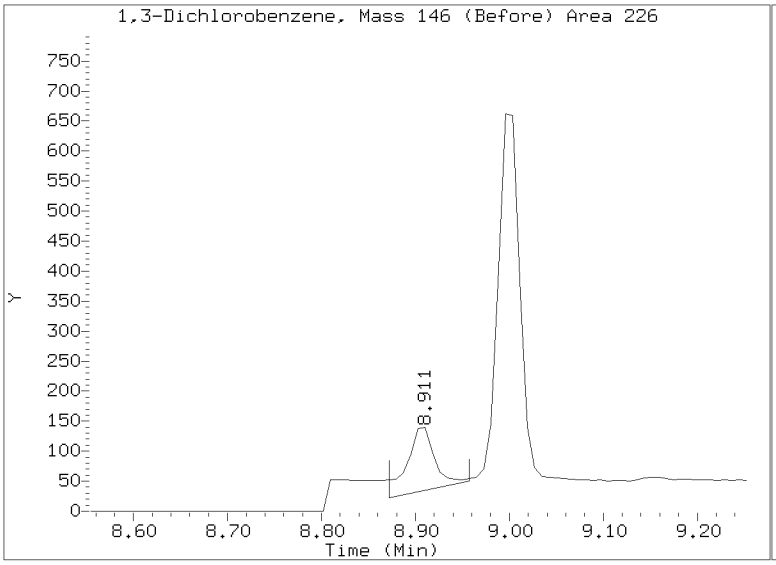
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

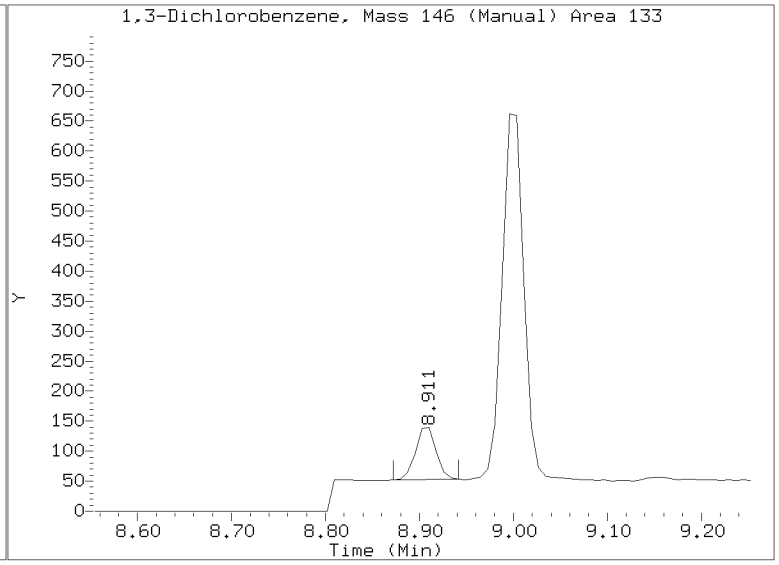
Exception: 1,2,4-Trichlorobenzene 0.0010

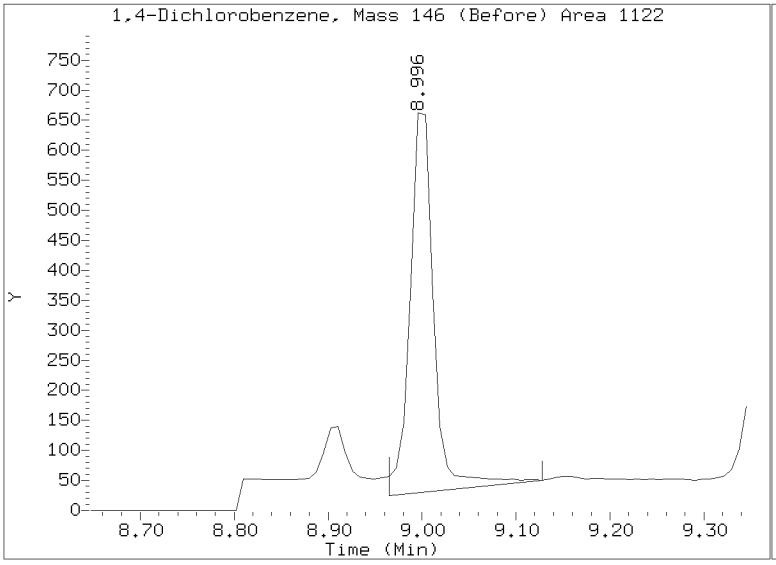
* Only compounds listed in the work order have been verified by the analyst *

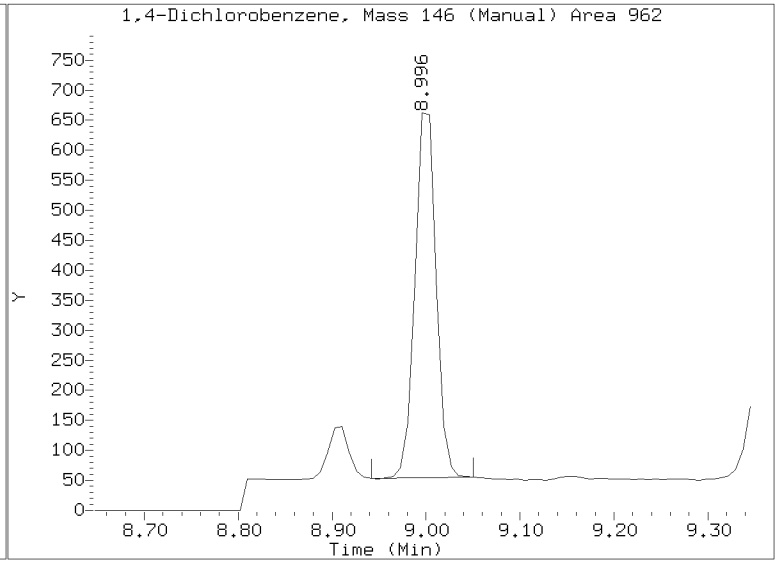
Quant Ion Manual Peak Adjustment Report

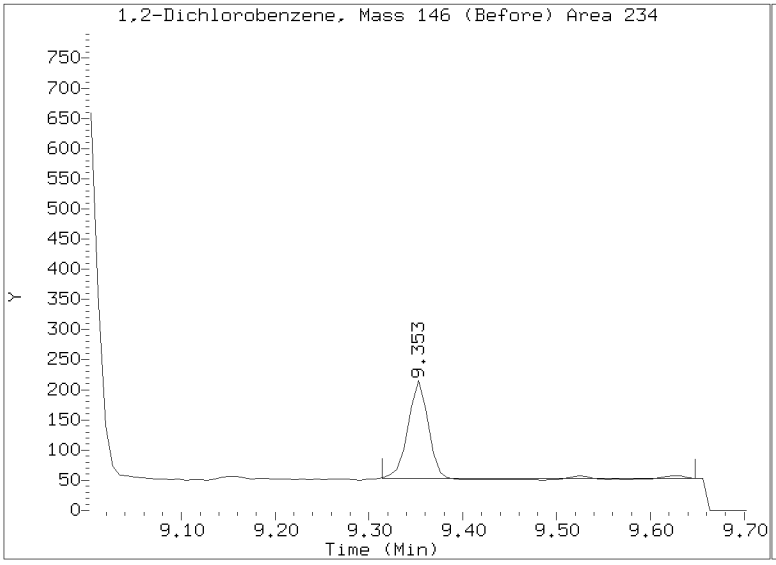
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020744S.D
Injection Date: 08-FEB-2023 15:03
Lab ID:22L0459-04 Client ID:
Report Date: 02/09/2023 15:00

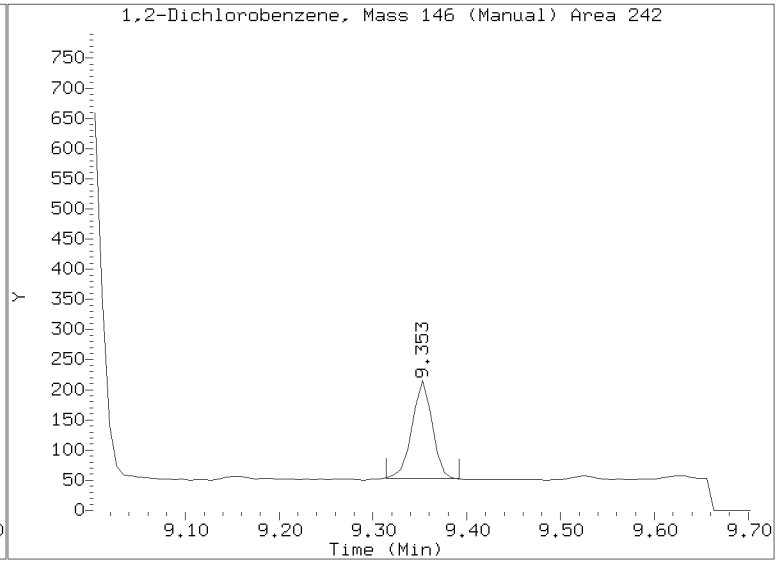






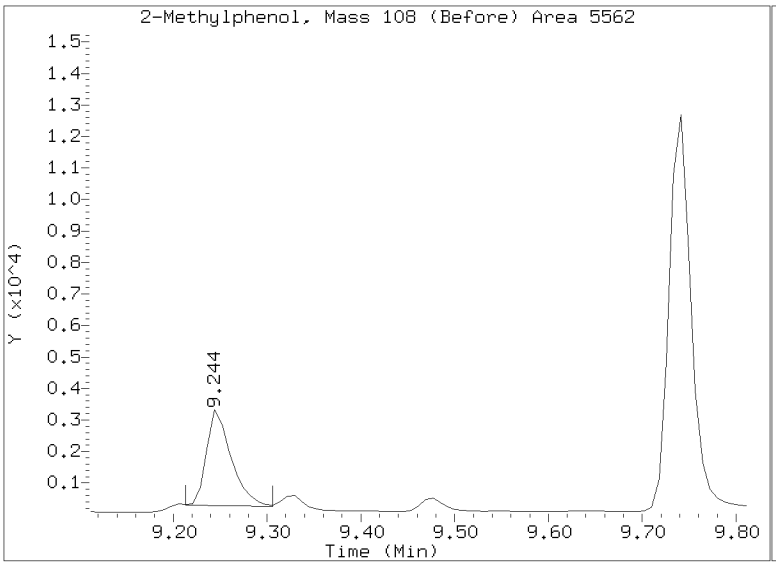


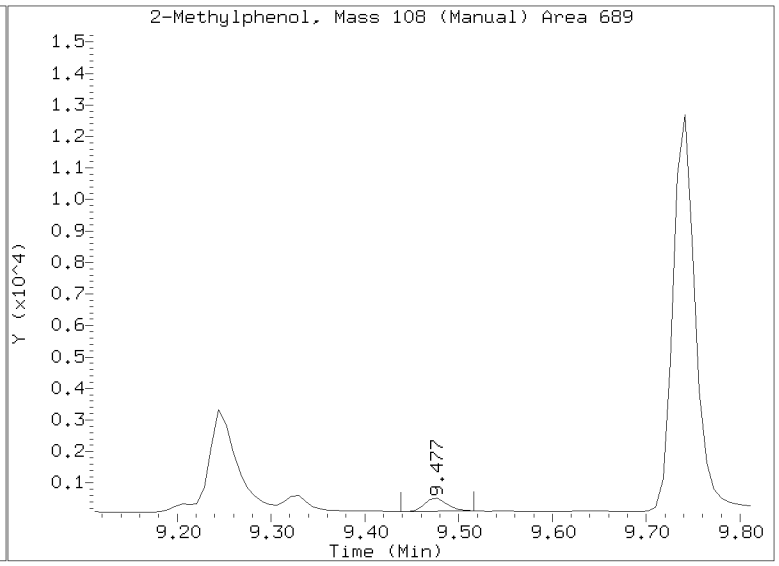


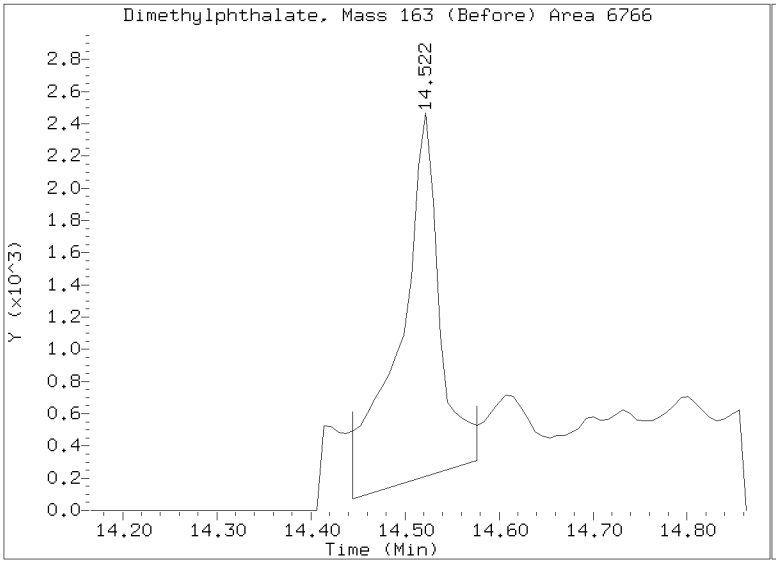


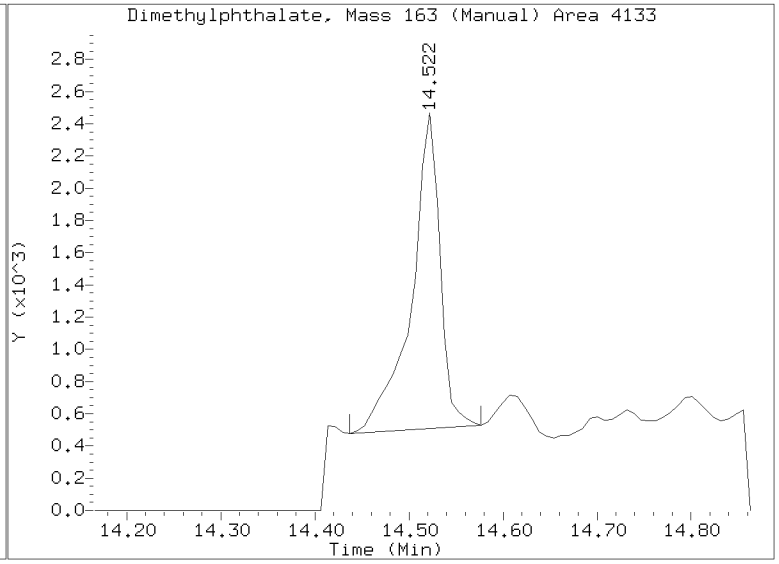
Quant Ion Manual Peak Adjustment Report

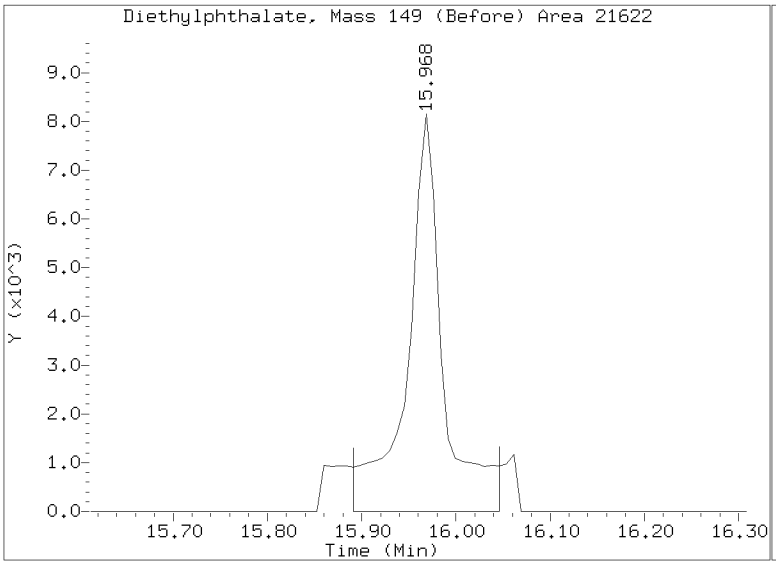
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020744S.D
Injection Date: 08-FEB-2023 15:03
Lab ID:22L0459-04 Client ID:
Report Date: 02/09/2023 15:00

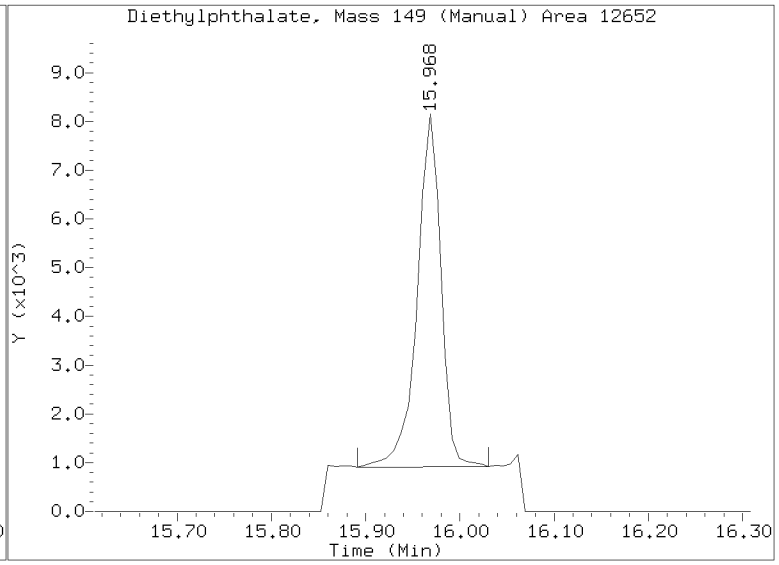












Quant Ion Manual Peak Adjustment Report

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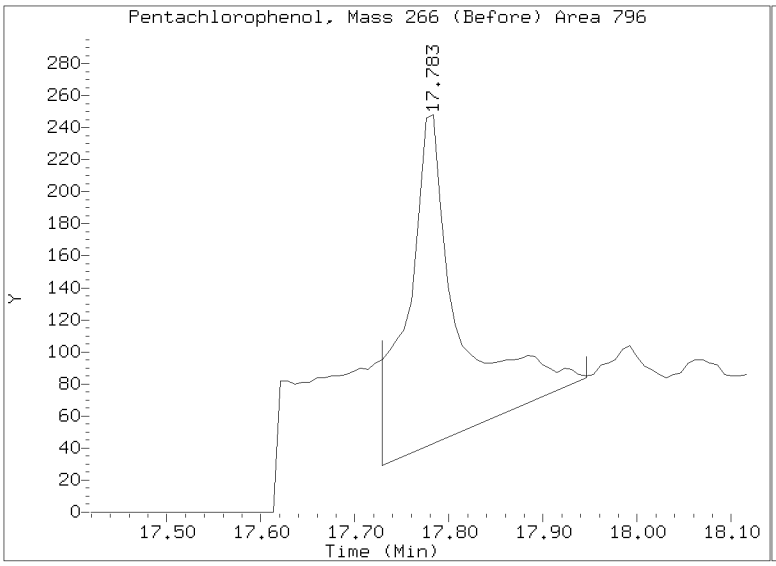
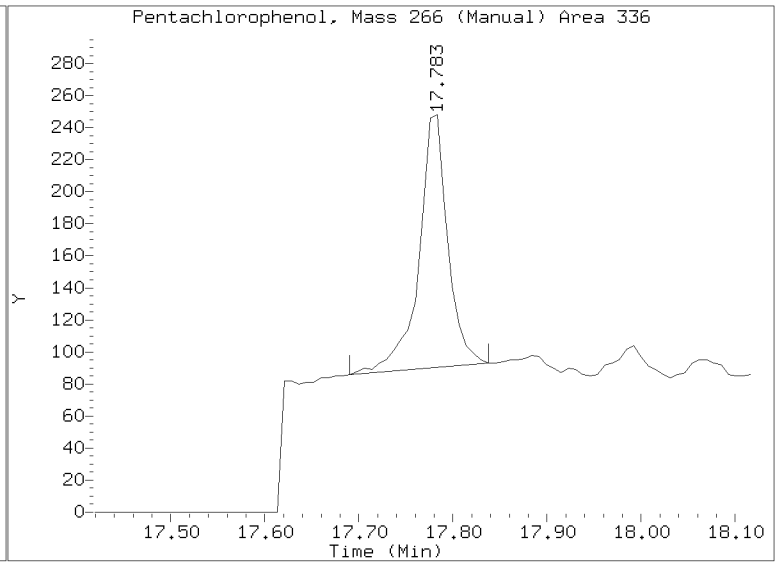
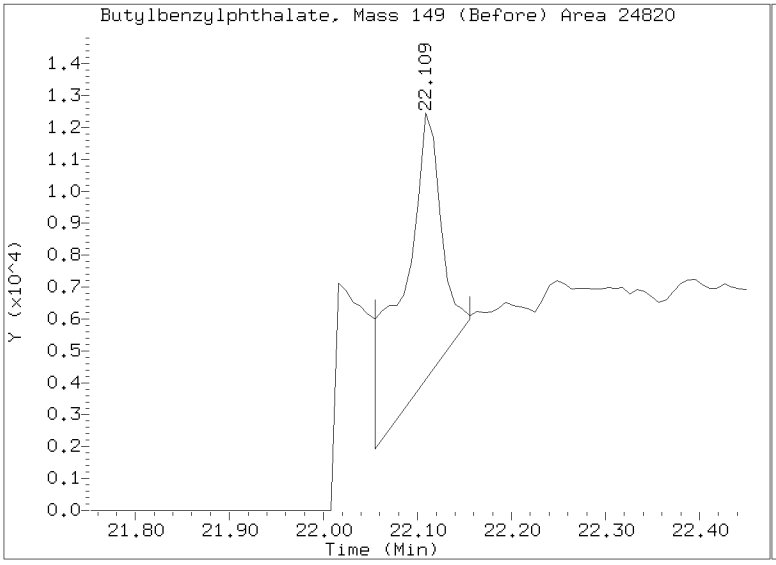
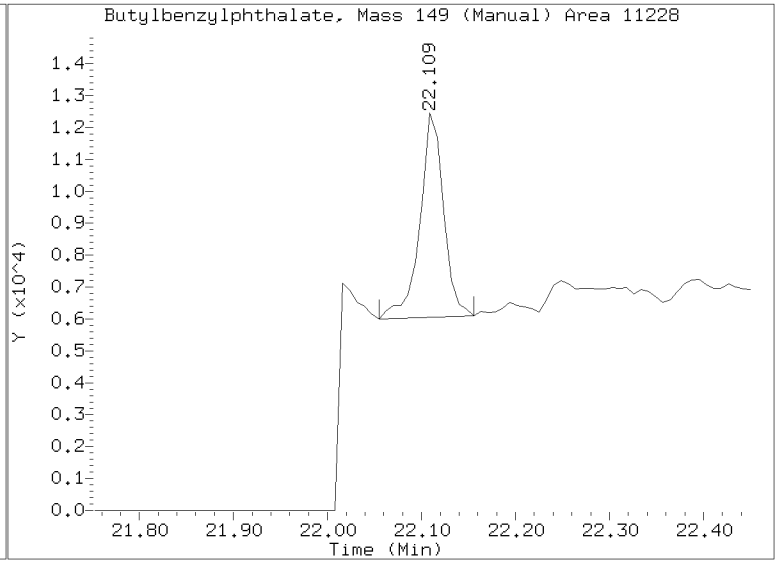
Injection Date: 08-FEB-2023 15:03
Lab ID:22L0459-04 Client ID:
Report Date: 02/09/2023 15:00









Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1002C

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

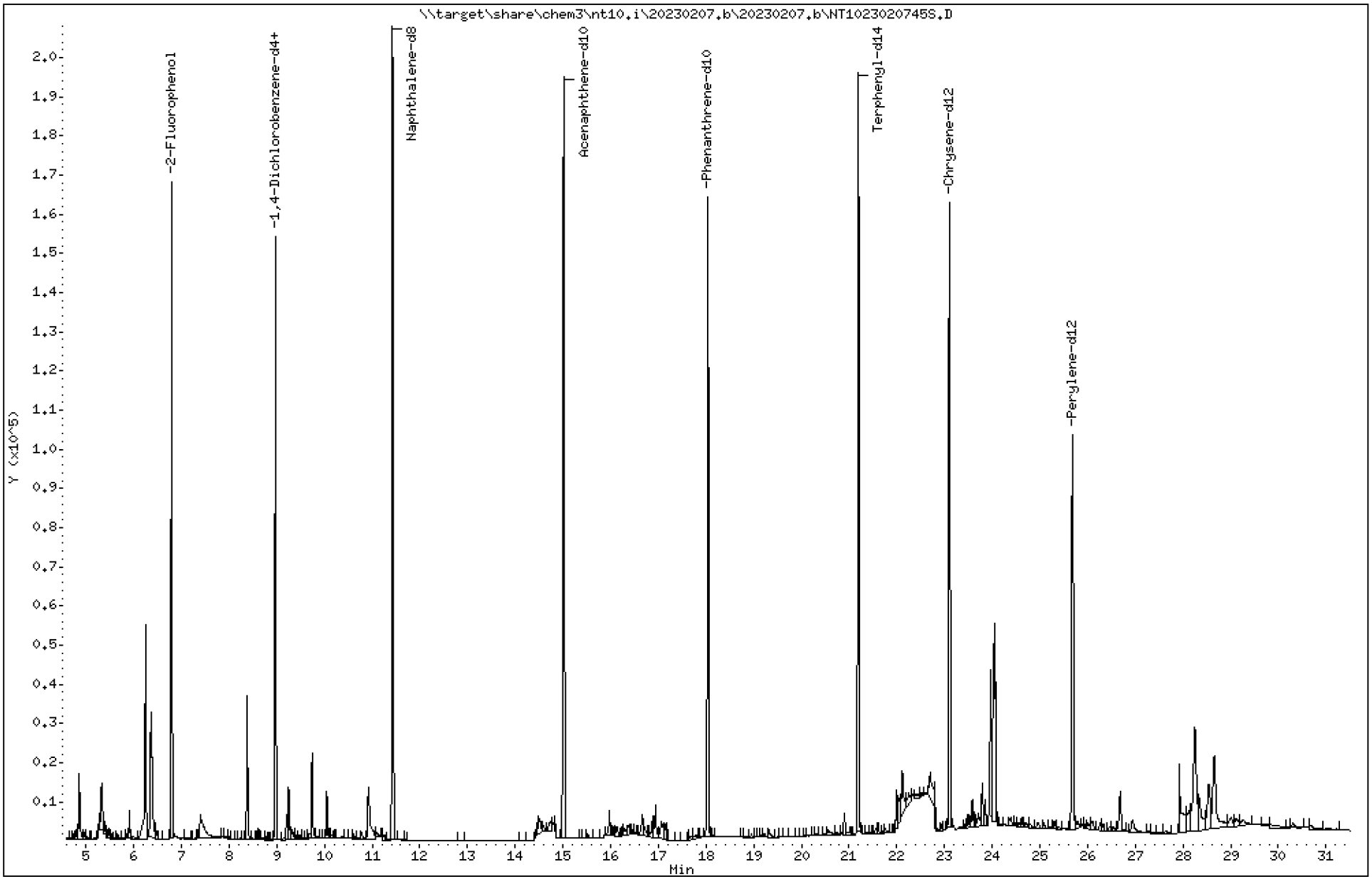
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-05 A	SDG:	22L0459
Sampled:	12/16/22 11:20	Prepared:	01/05/23 16:13	File ID:	NT1023020745S.D
% Solids:	54.59	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/08/23 15:41
Batch:	BLA0064	Sequence:	SLB0106	Initial/Final:	18.35 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GB00019

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	4.3	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	1.3	J	0.7	5.0
100-51-6	Benzyl Alcohol	1	78.2		2.5	20.0
65-85-0	Benzoic acid	1	176		13.4	99.8
105-67-9	2,4-Dimethylphenol	1	5.1	J	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0		1.3	5.0
87-86-5	Pentachlorophenol	1	7.8	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.71	565	75.5	27 - 120	
p-Terphenyl-d14	499.14	501	100	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207458.D
Date : 08-FEB-2023 15:41
Client ID:
Sample Info: 22L0459-05
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: DSD
Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207455S.D

Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

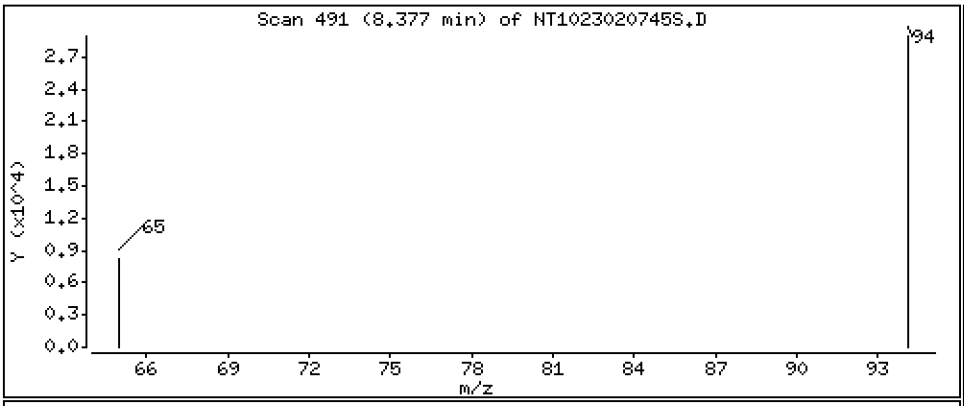
Operator: DSD

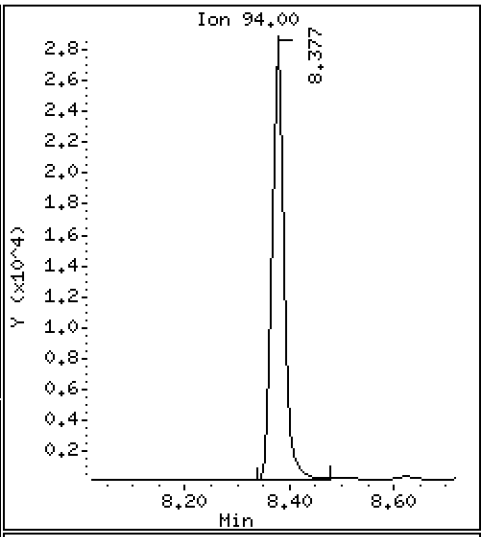
Column phase: ZB-5msi

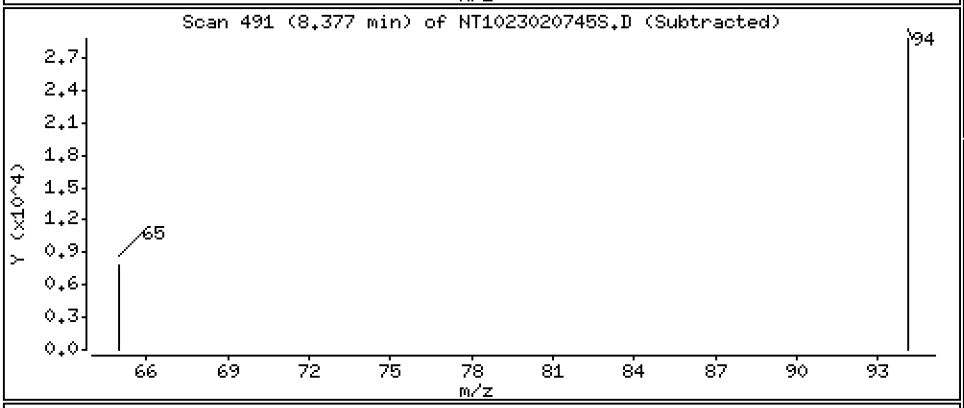
Column diameter: 0.25

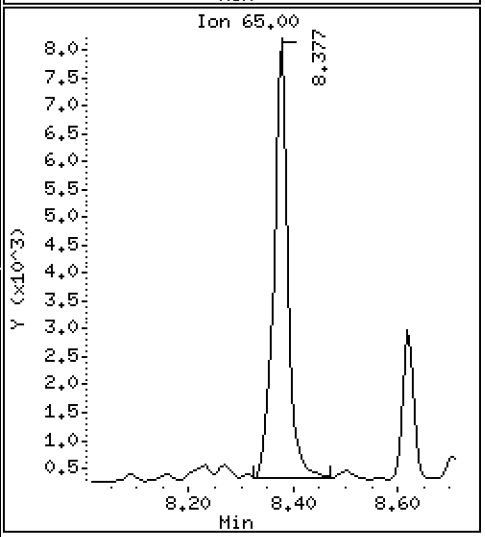
3 Phenol

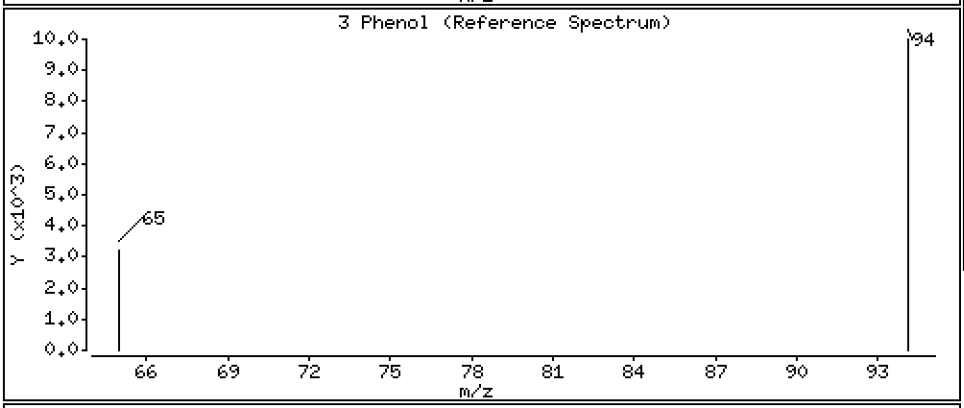
Concentration: 1.100 ug/L

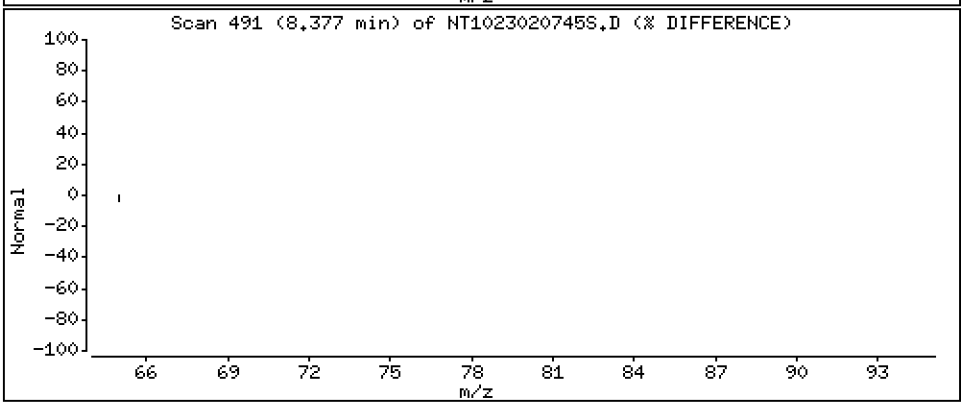












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020745S.D

Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

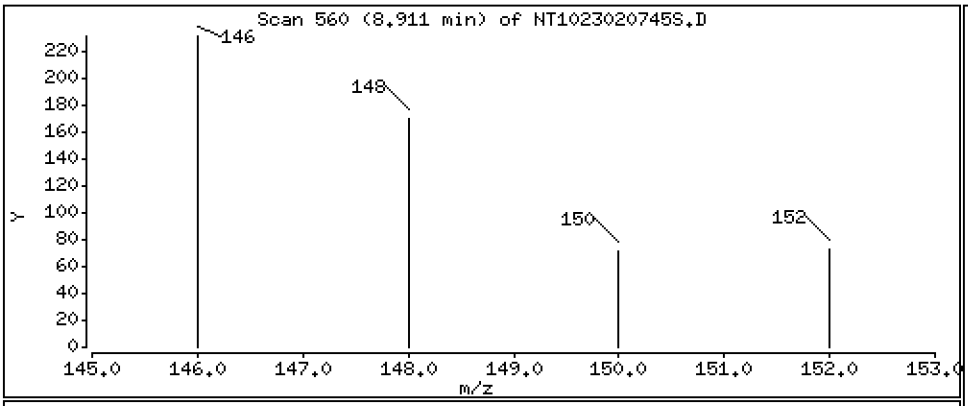
Operator: DSD

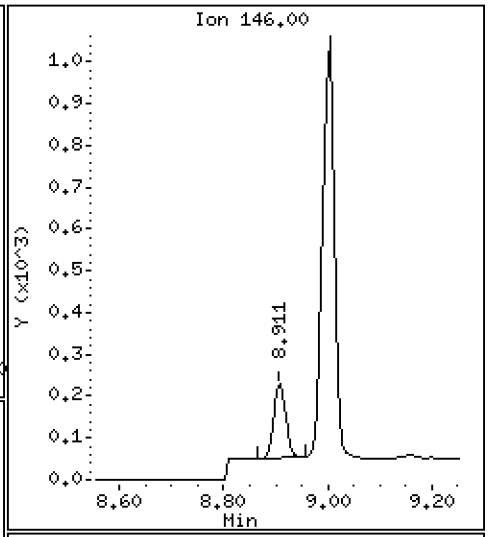
Column phase: ZB-5msi

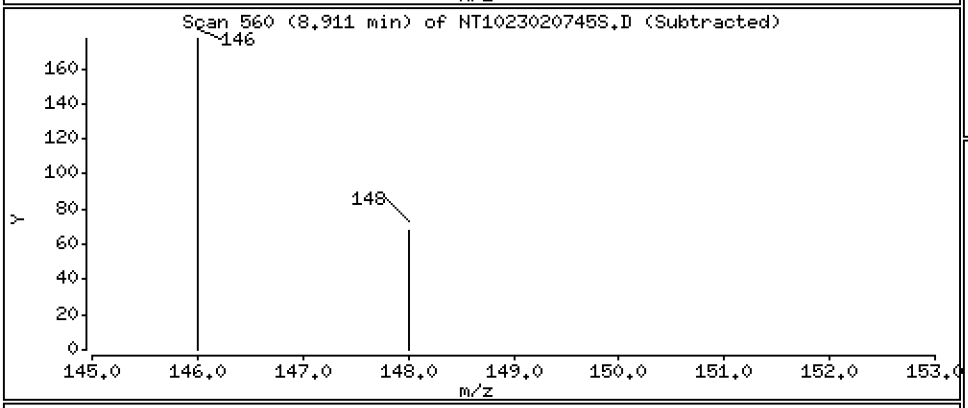
Column diameter: 0.25

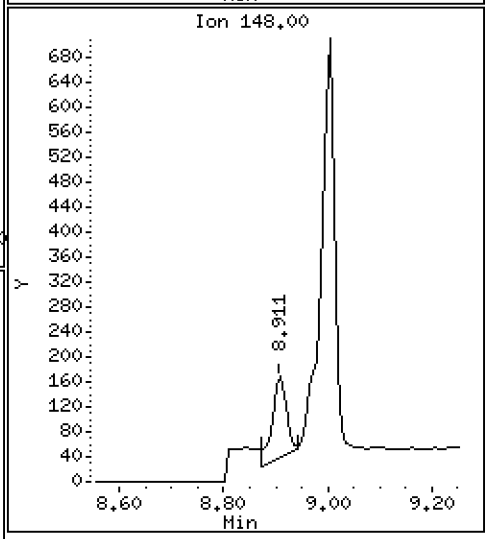
7 1,3-Dichlorobenzene

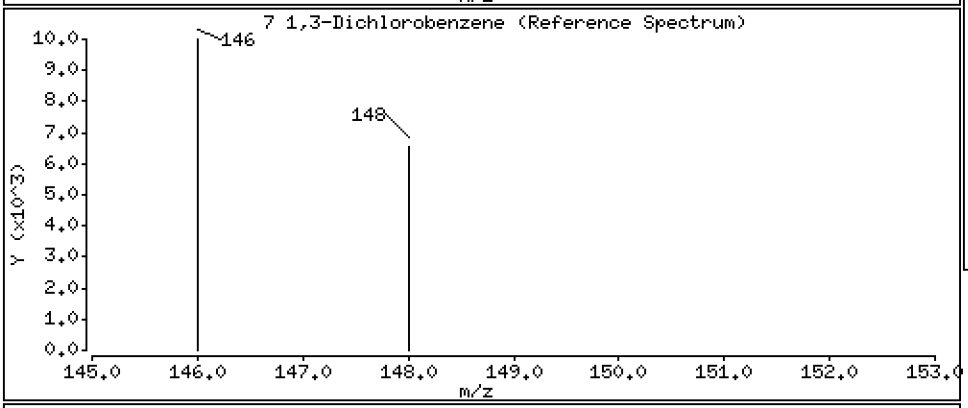
Concentration: 0.007366 ug/L

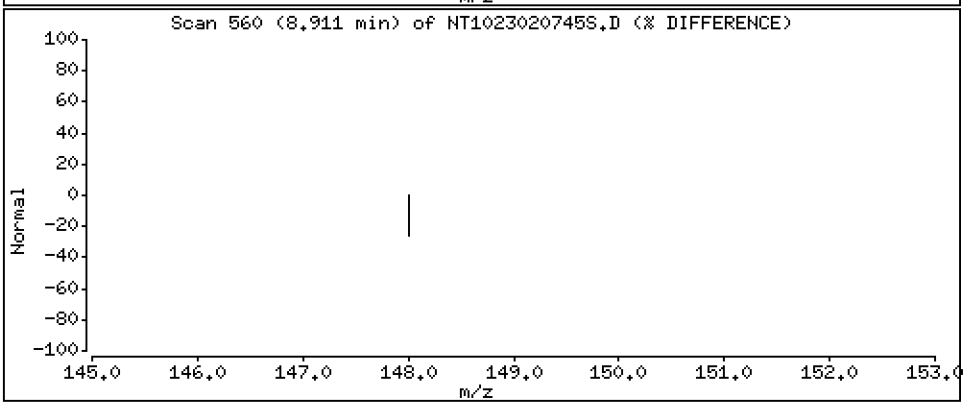












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207455S.D

Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

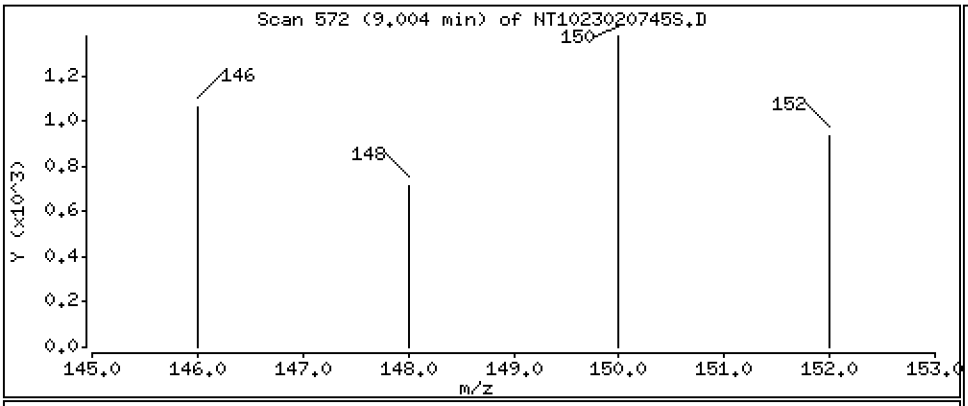
Operator: DSD

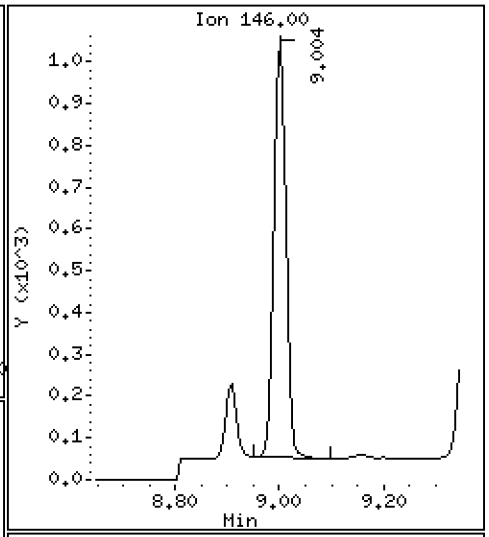
Column phase: ZB-5msi

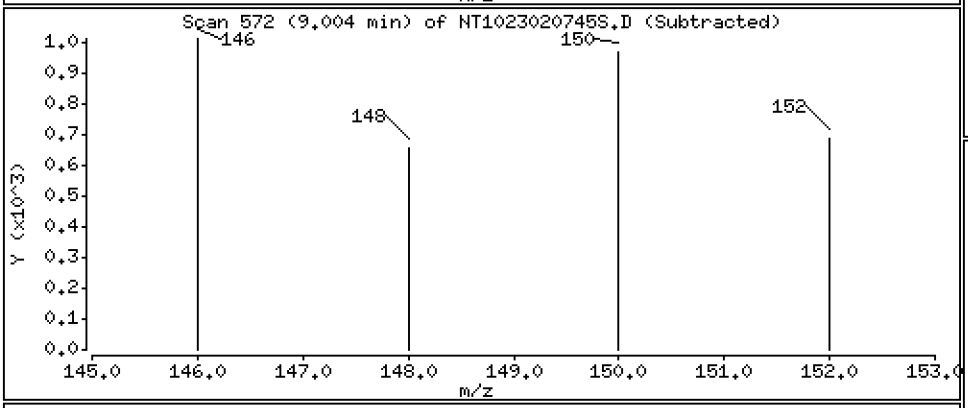
Column diameter: 0.25

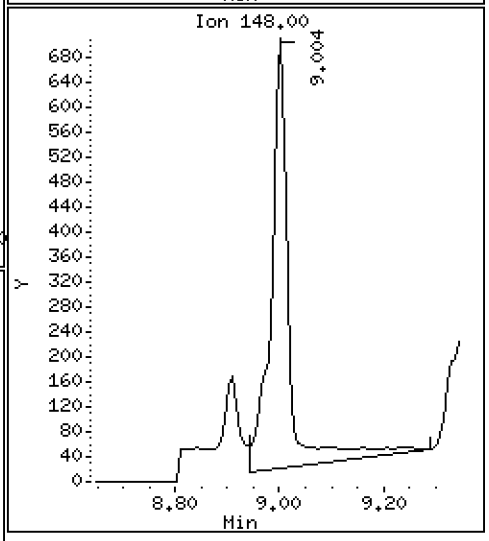
9 1,4-Dichlorobenzene

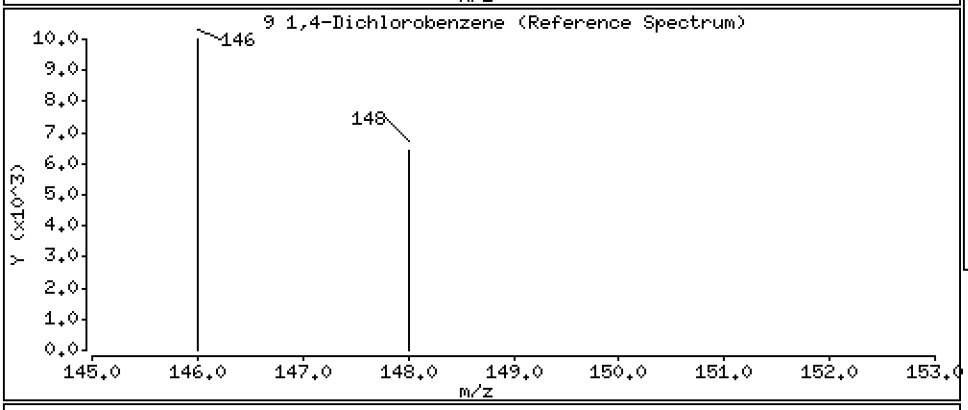
Concentration: 0.04286 ug/L

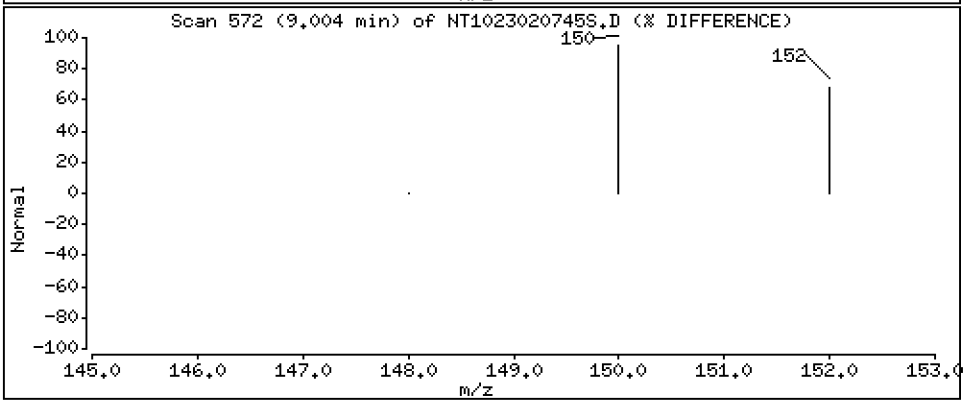












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020745S.D

Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

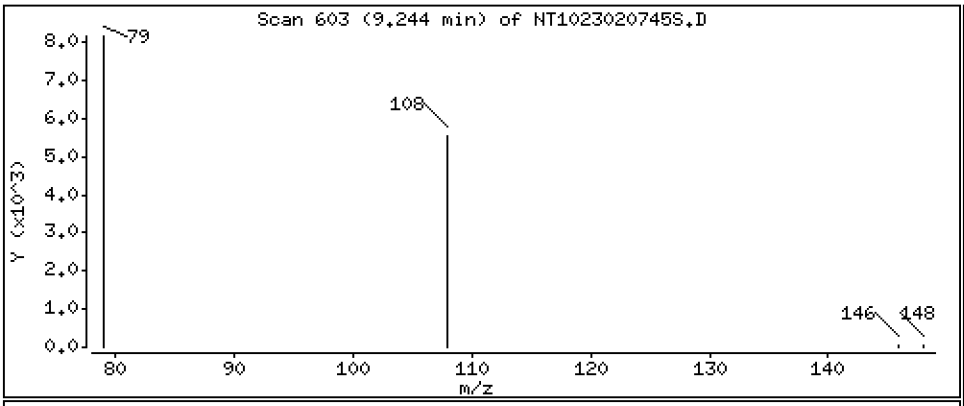
Operator: DSD

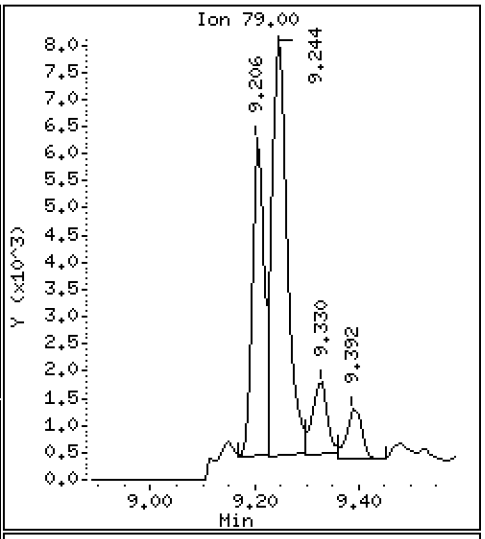
Column phase: ZB-5msi

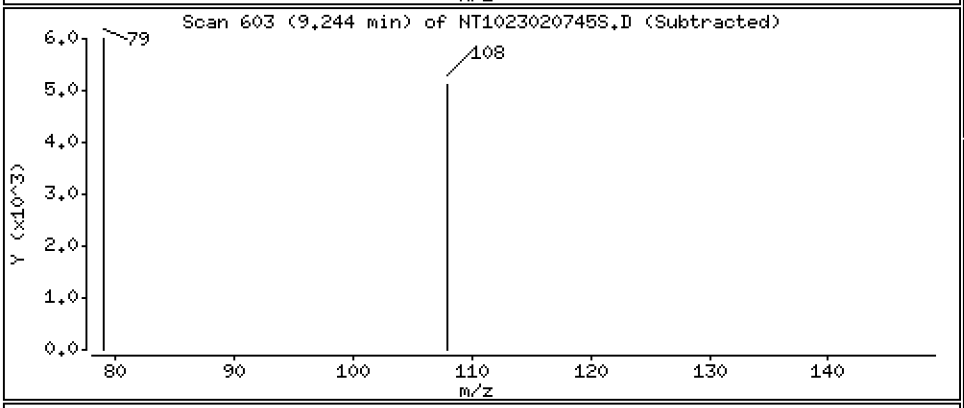
Column diameter: 0.25

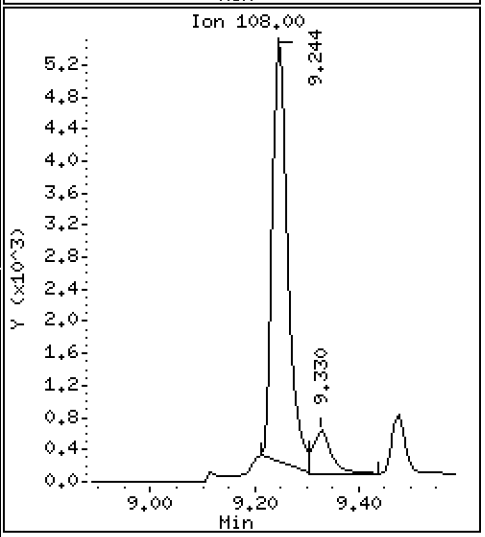
11 Benzyl alcohol

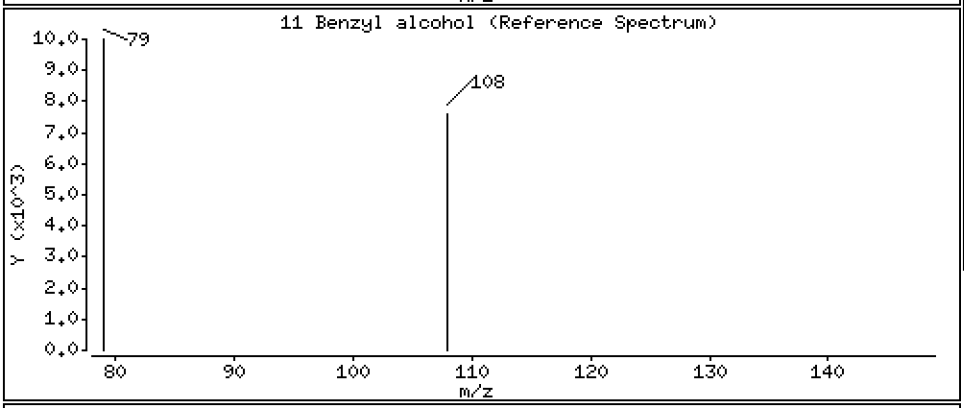
Concentration: 0.7835 ug/L

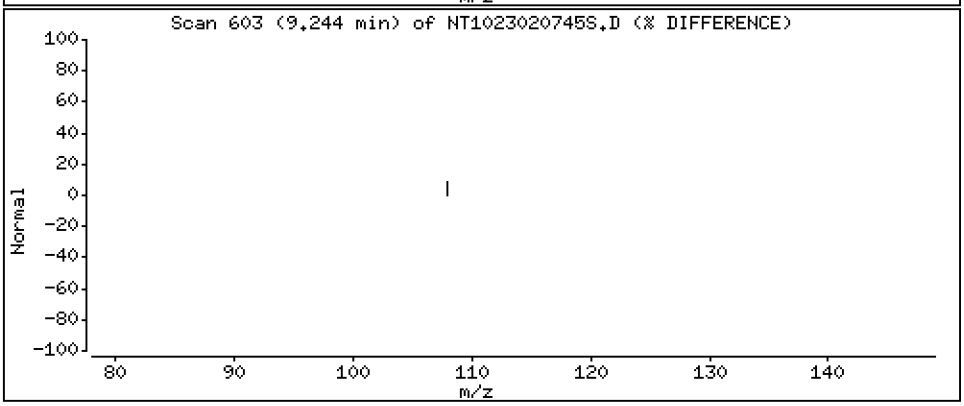












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020745S.D

Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

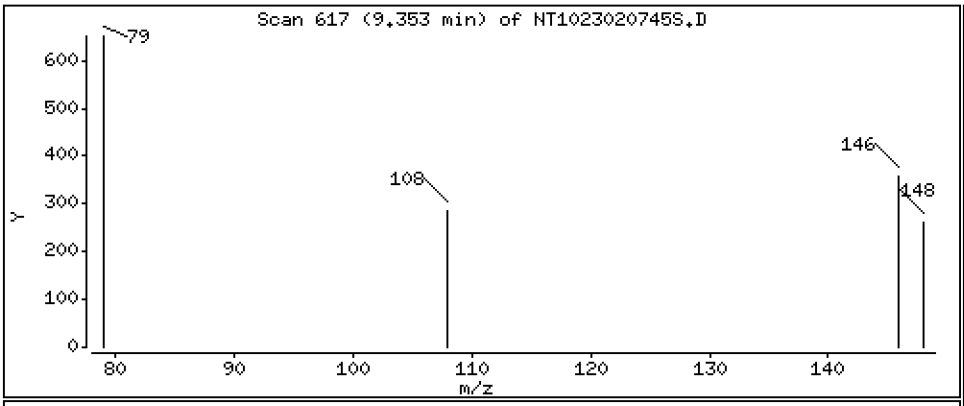
Operator: DSD

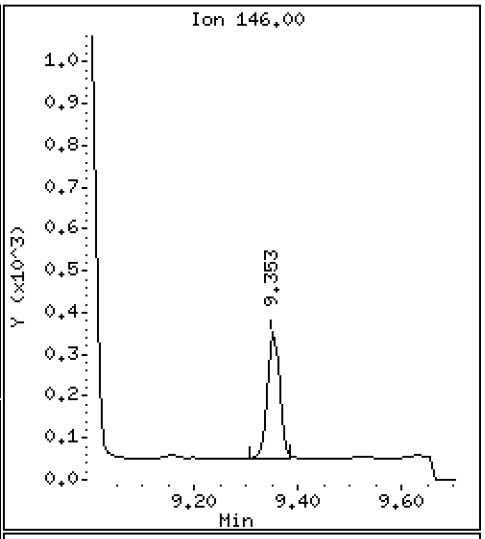
Column phase: ZB-5msi

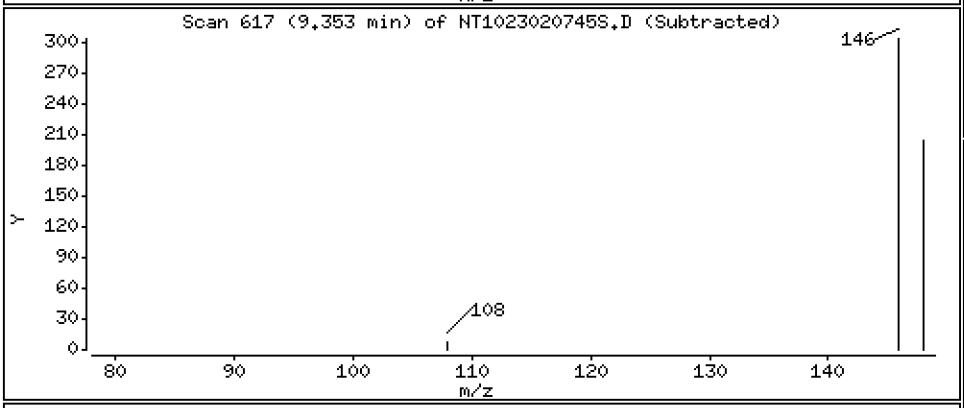
Column diameter: 0.25

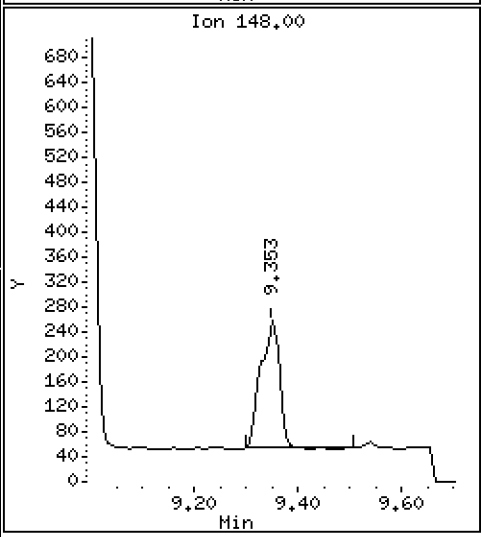
12 1,2-Dichlorobenzene

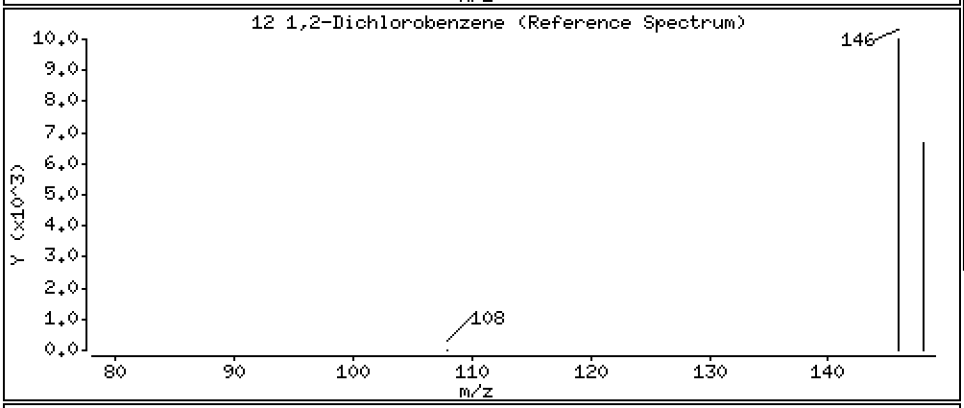
Concentration: 0.01330 ug/L

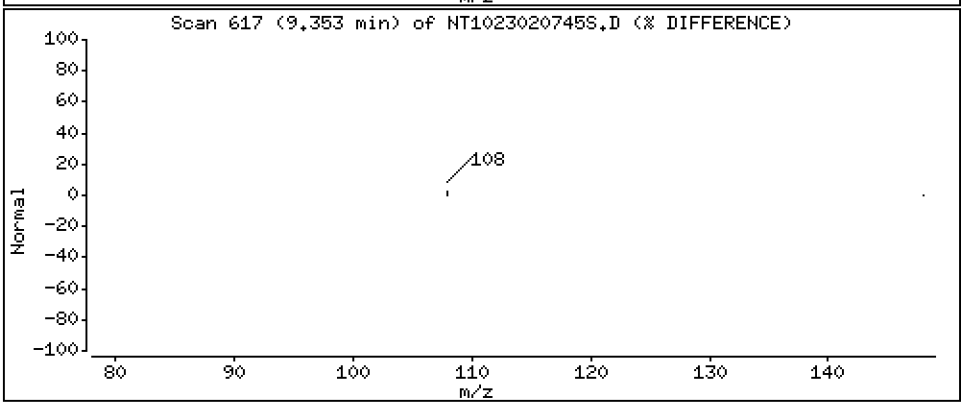












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Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

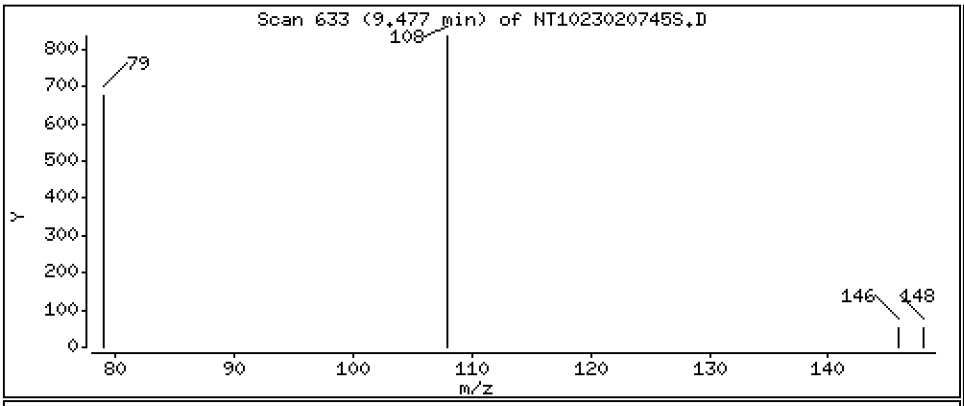
Operator: DSD

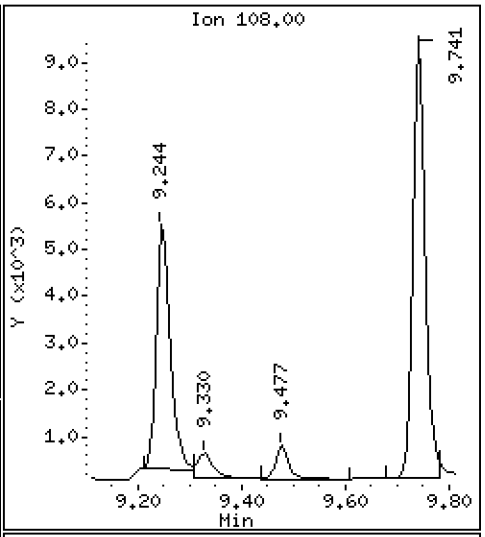
Column phase: ZB-5msi

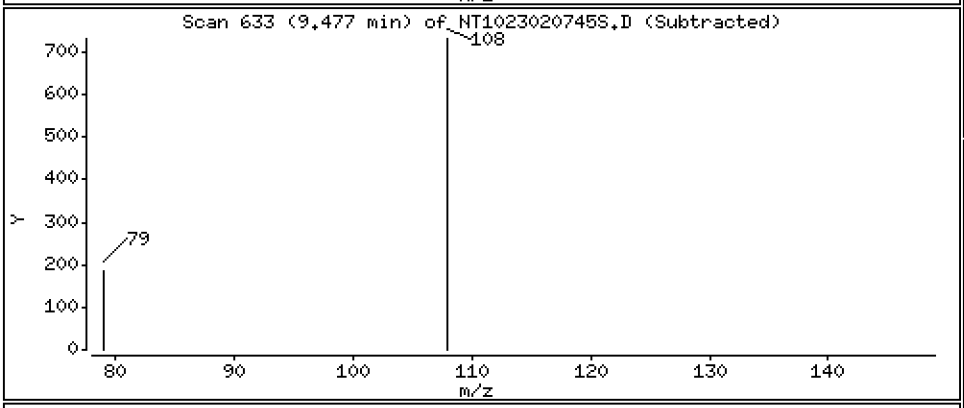
Column diameter: 0.25

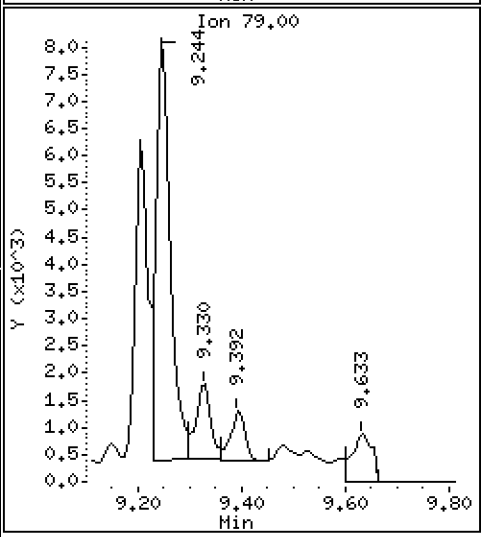
13 2-Methylphenol

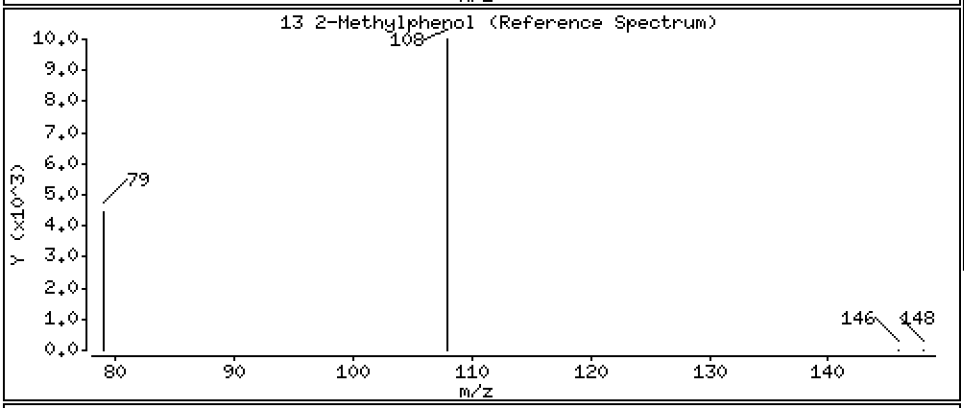
Concentration: 0.04604 ug/L

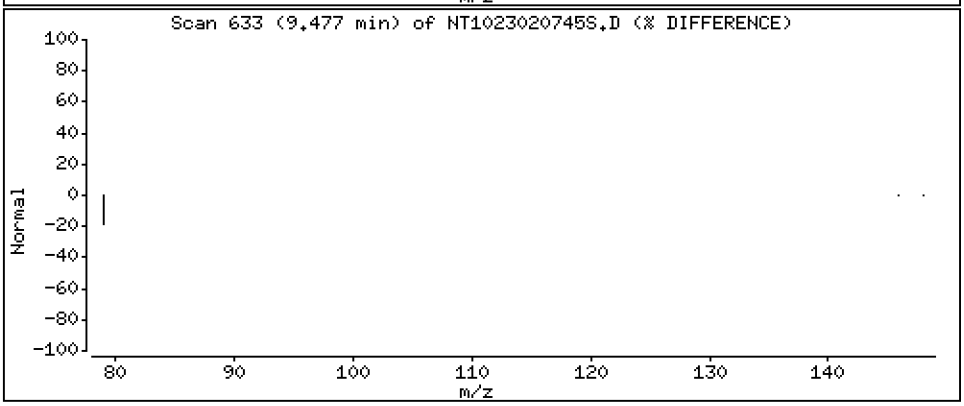












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Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

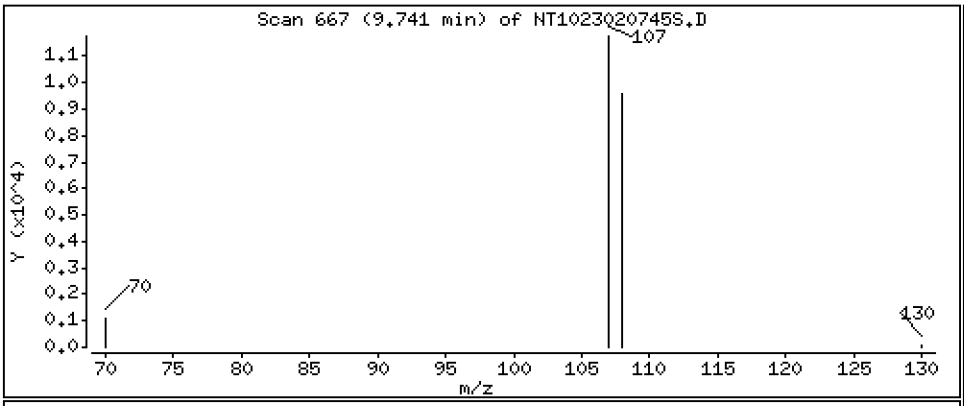
Operator: DSD

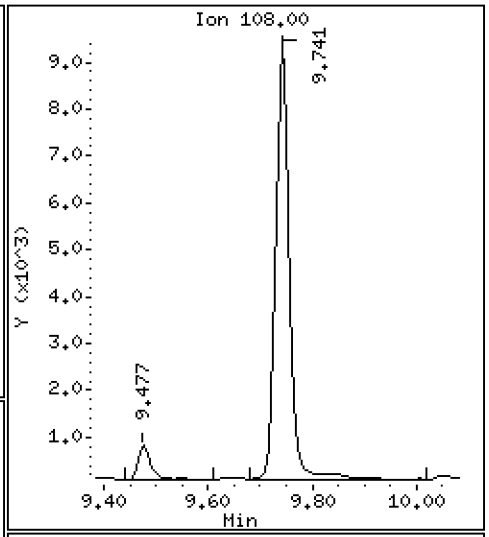
Column phase: ZB-5msi

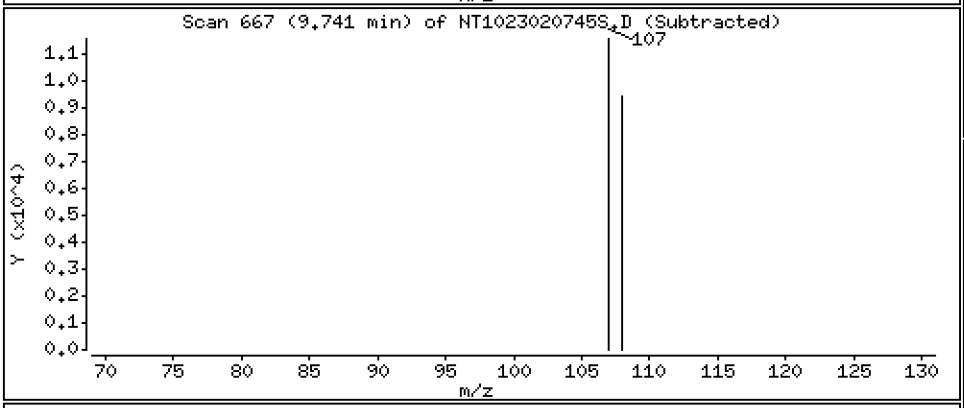
Column diameter: 0.25

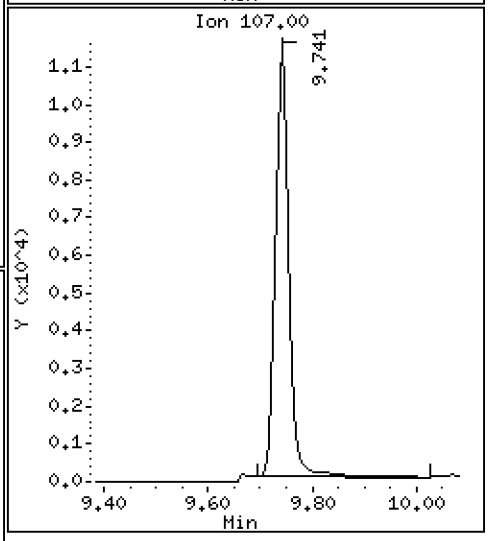
15 4-Methylphenol

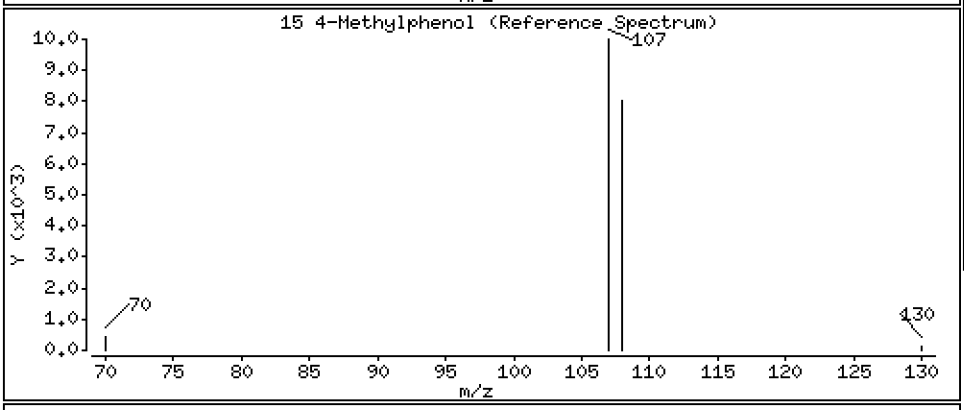
Concentration: 0.5914 ug/L

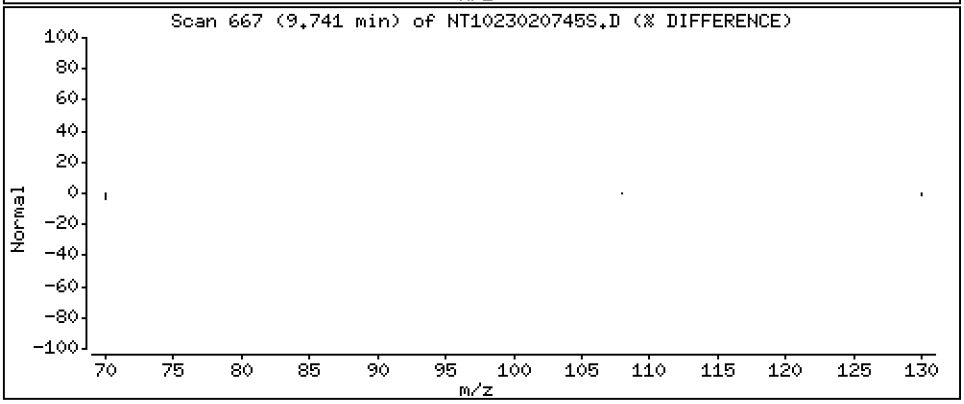












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Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

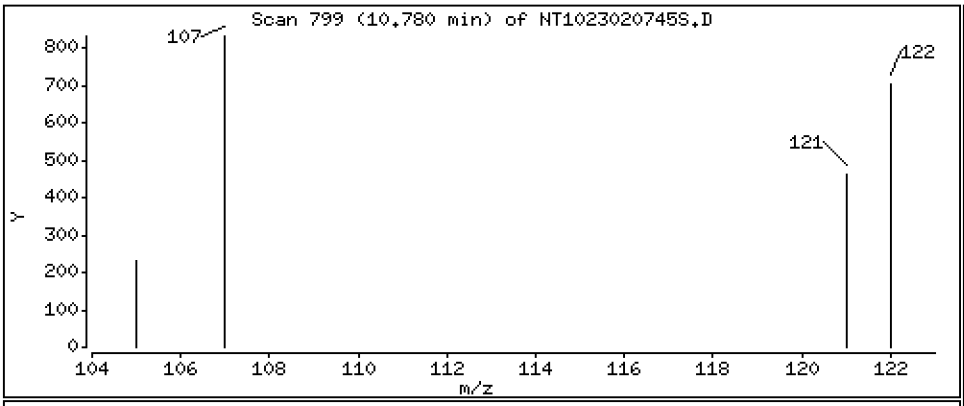
Operator: DSD

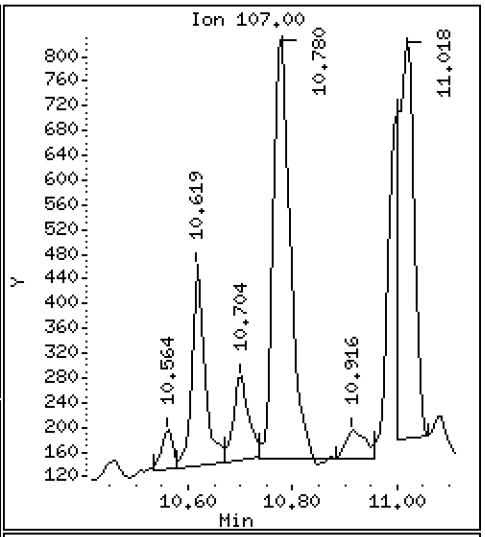
Column phase: ZB-5msi

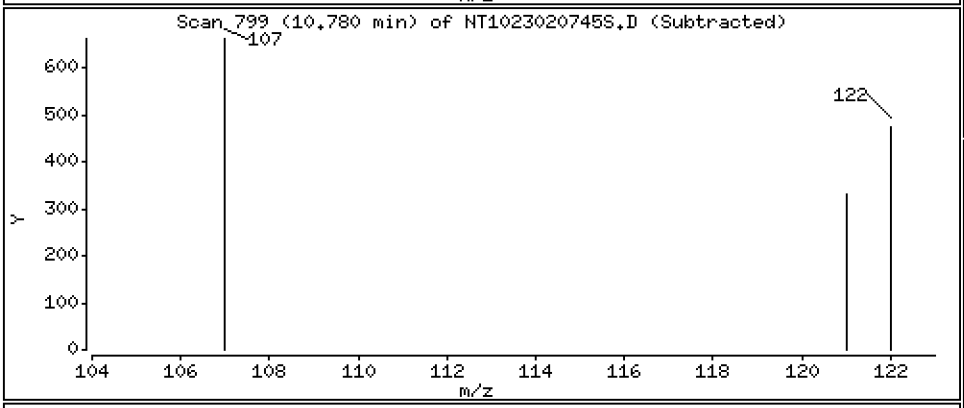
Column diameter: 0.25

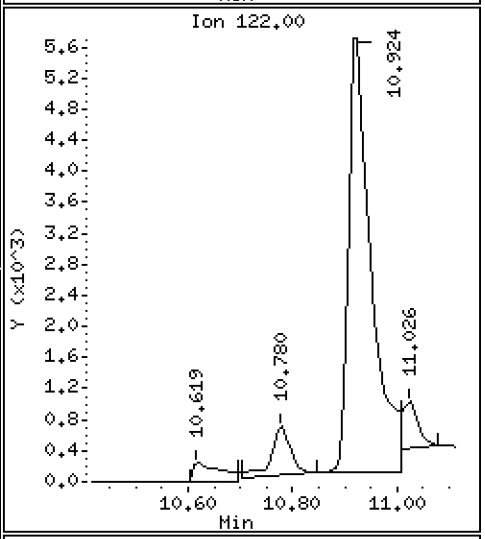
22 2,4-Dimethylphenol

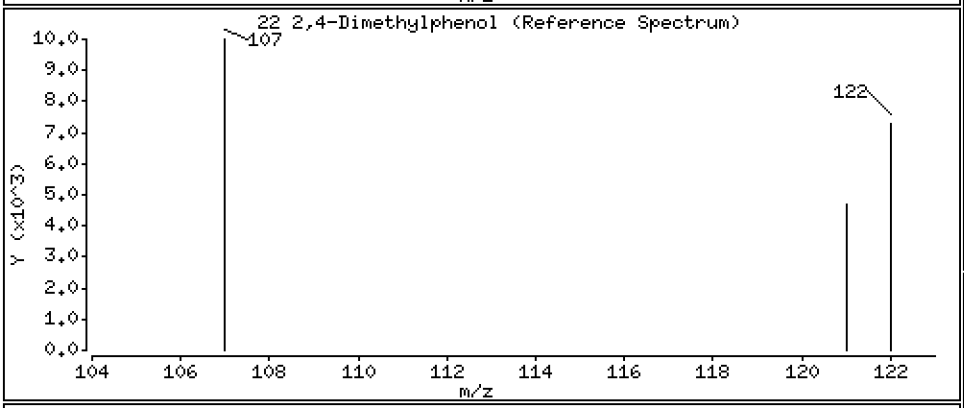
Concentration: 0.05082 ug/L

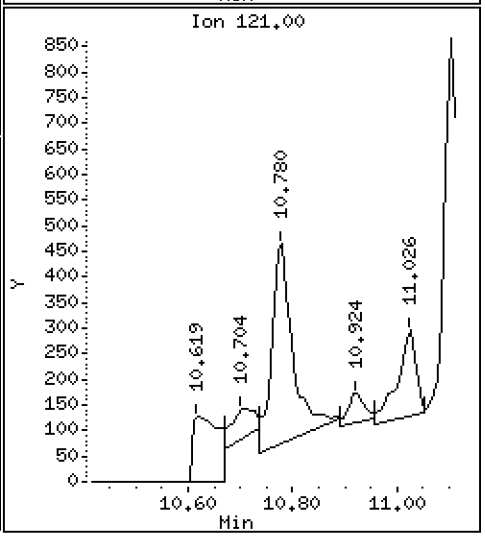


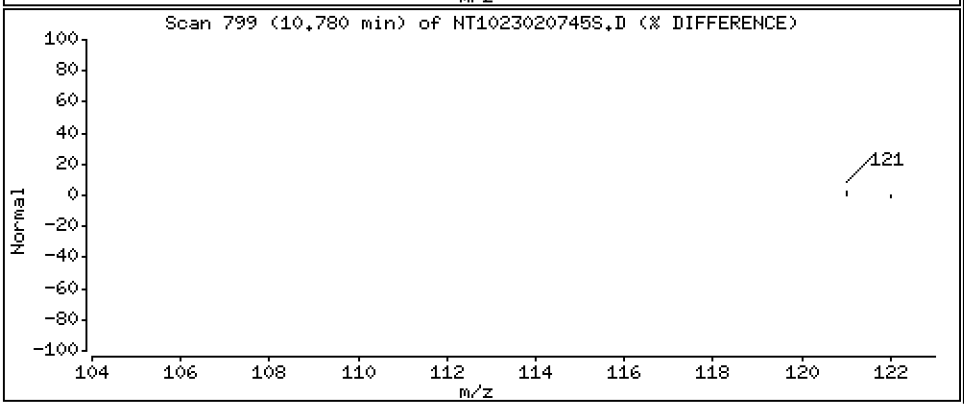












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Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

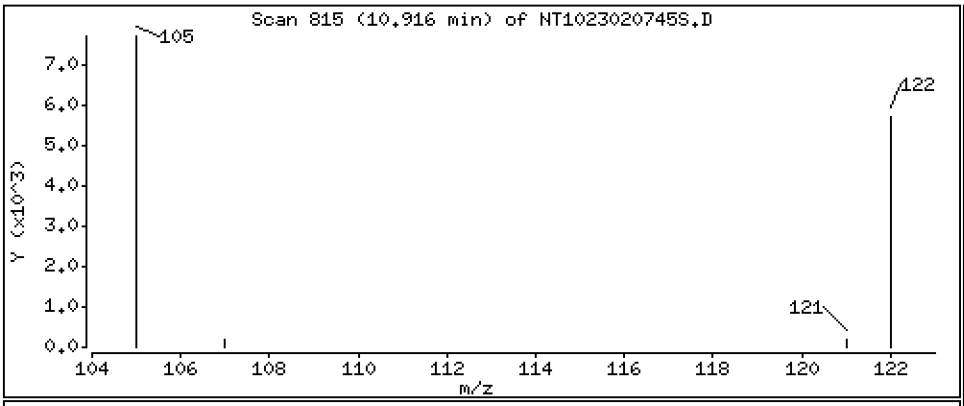
Operator: DSD

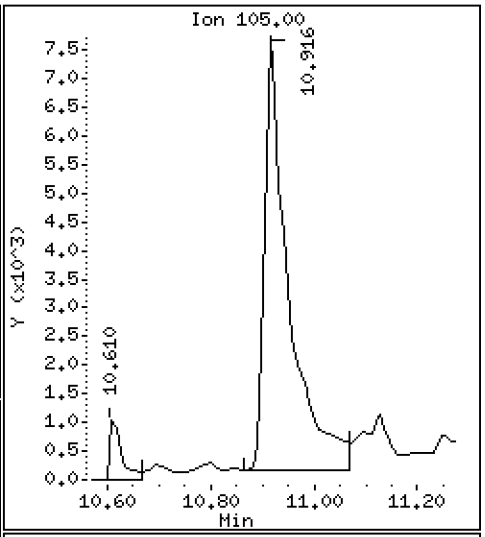
Column phase: ZB-5msi

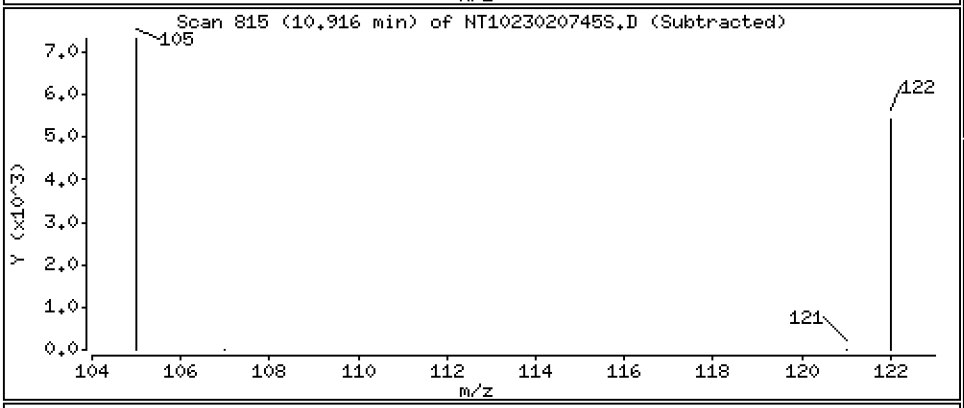
Column diameter: 0.25

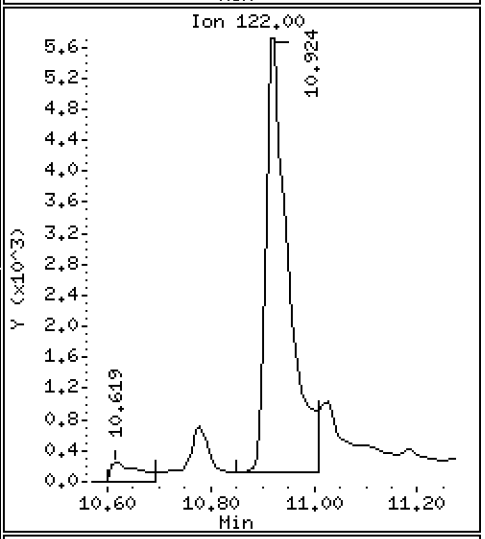
24 Benzoic acid

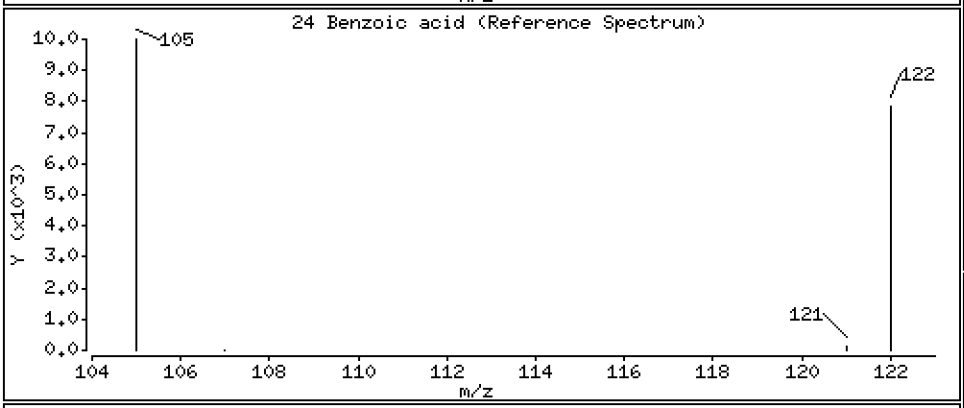
Concentration: 1.759 ug/L

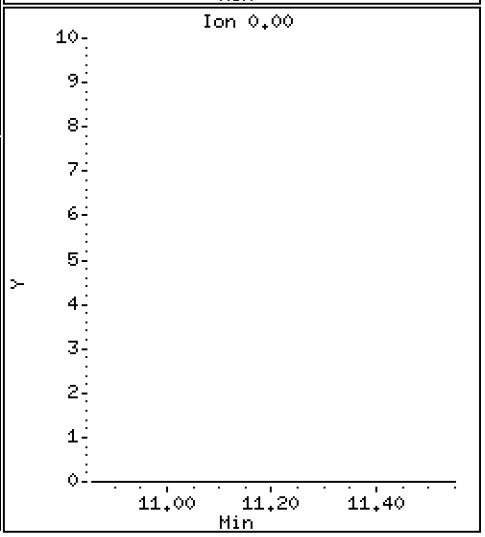


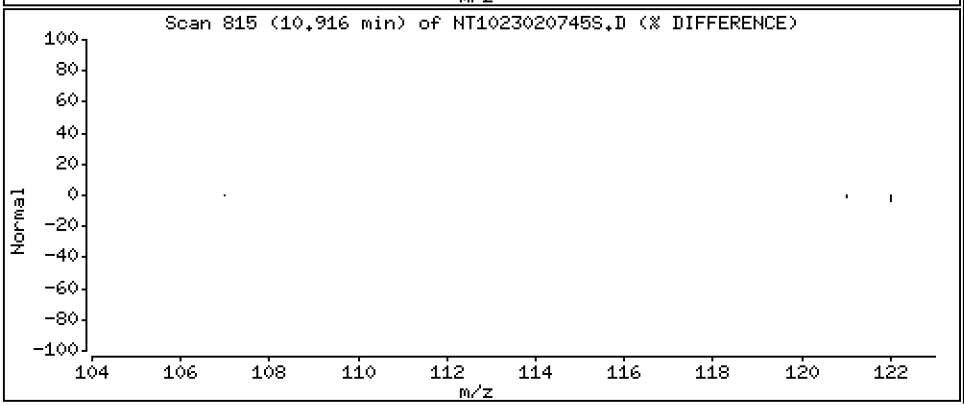












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020745S.D

Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

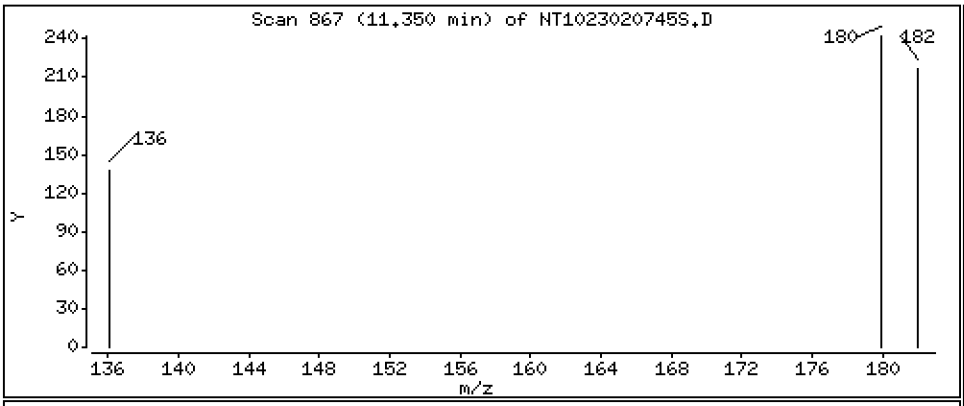
Operator: DSD

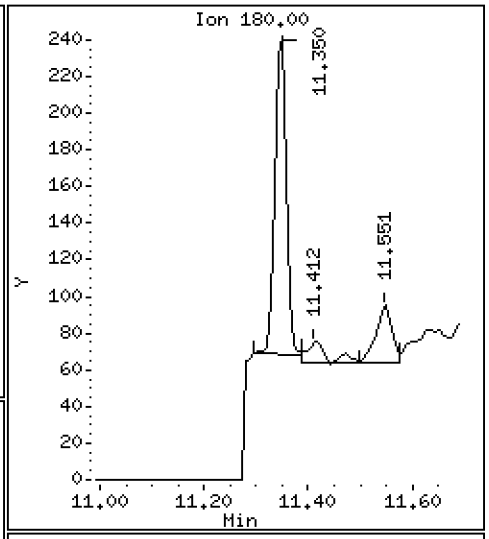
Column phase: ZB-5msi

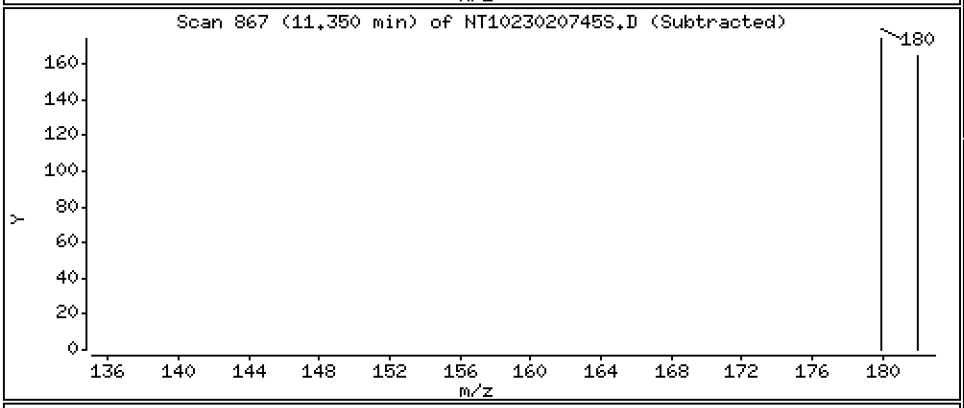
Column diameter: 0.25

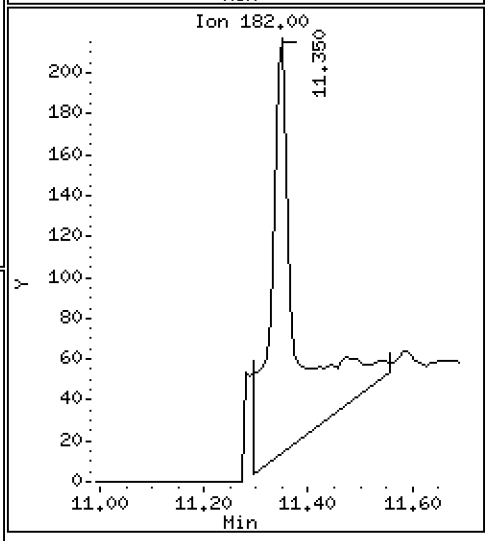
26 1,2,4-Trichlorobenzene

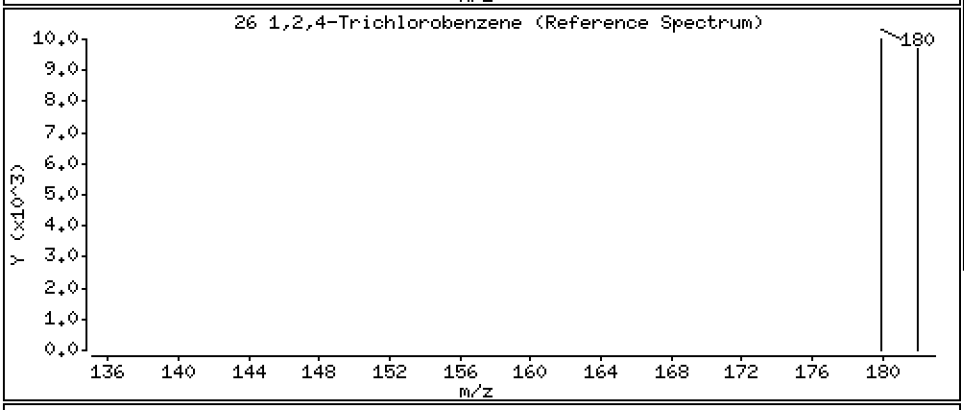
Concentration: 0.009825 ug/L

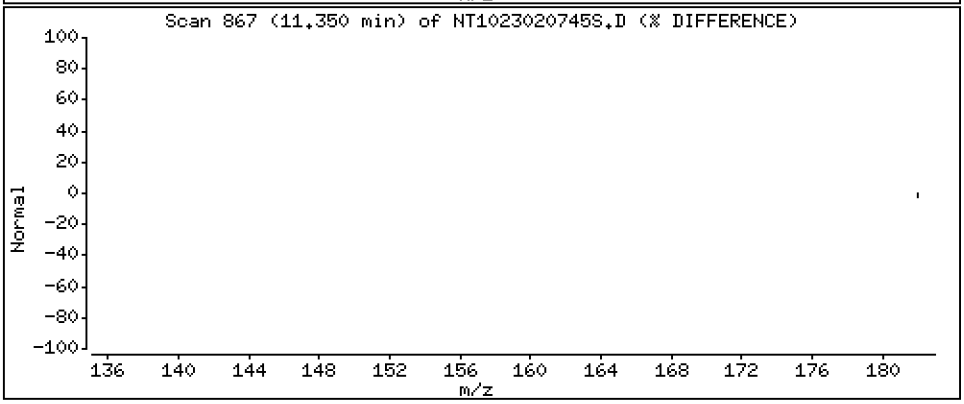












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Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

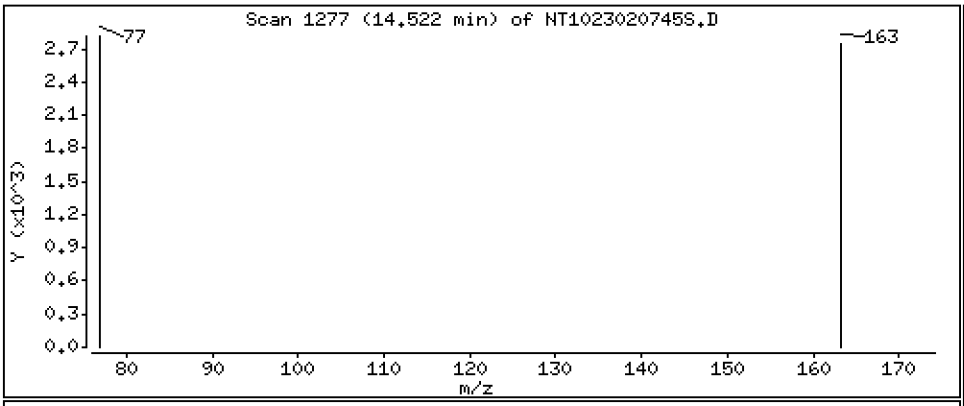
Operator: DSD

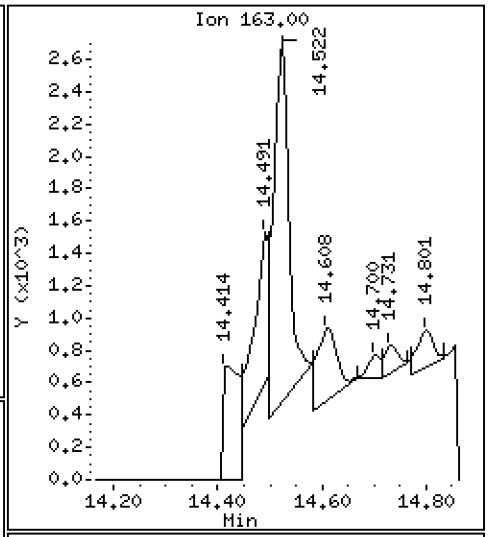
Column phase: ZB-5msi

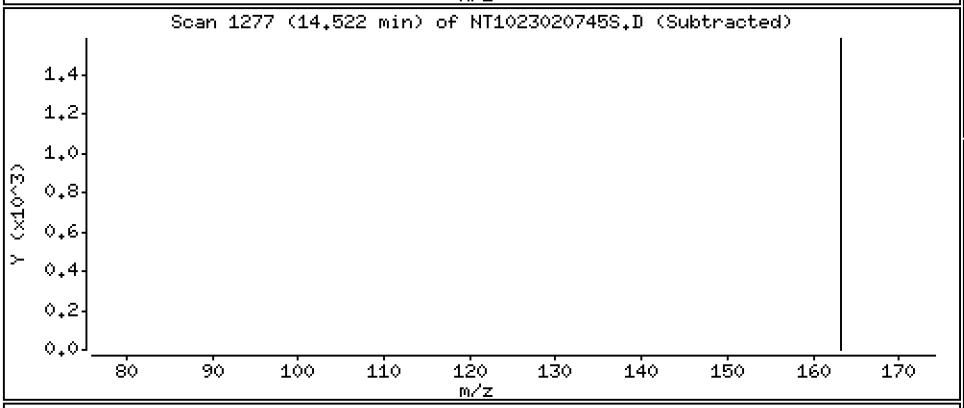
Column diameter: 0.25

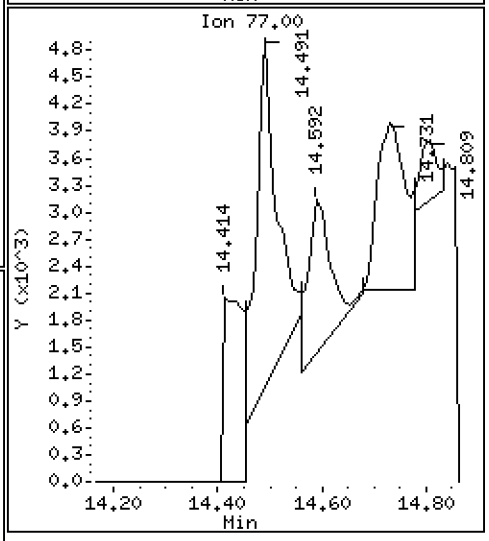
39 Dimethylphthalate

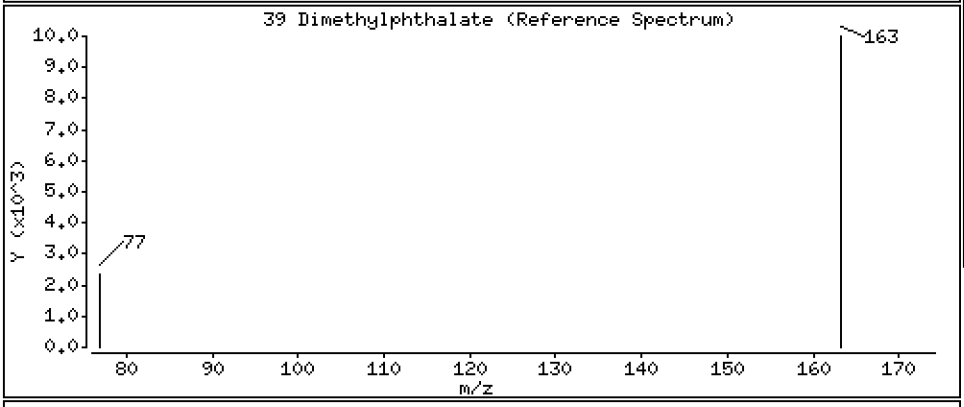
Concentration: 0.1212 ug/L

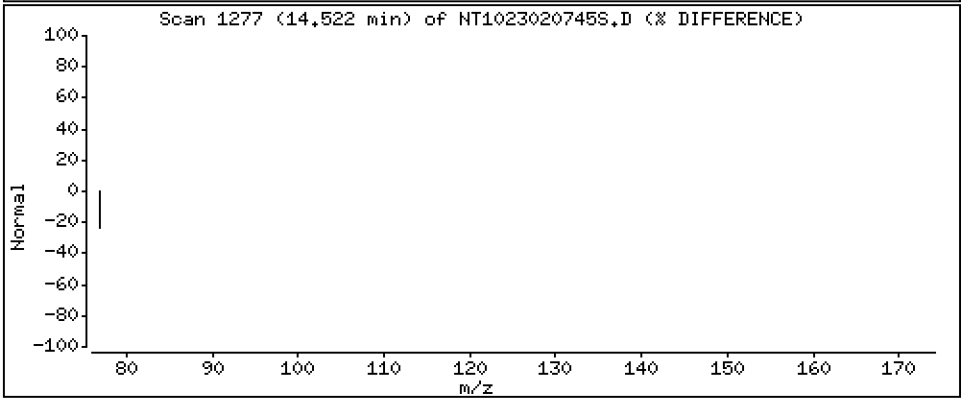












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Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

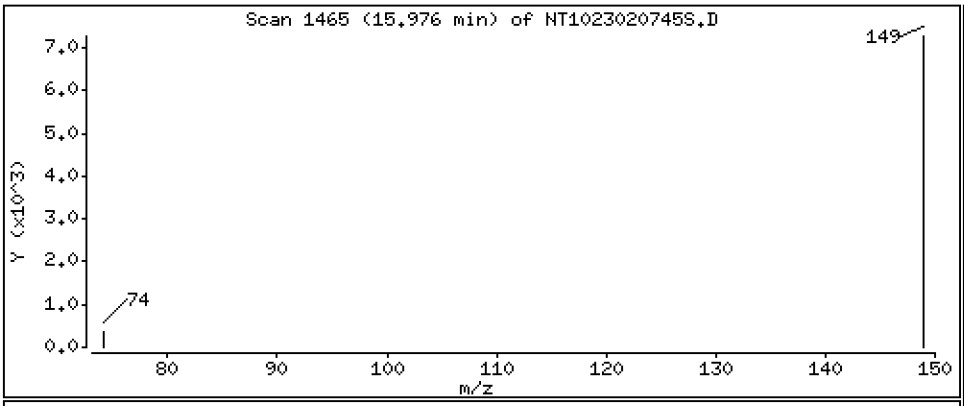
Operator: DSD

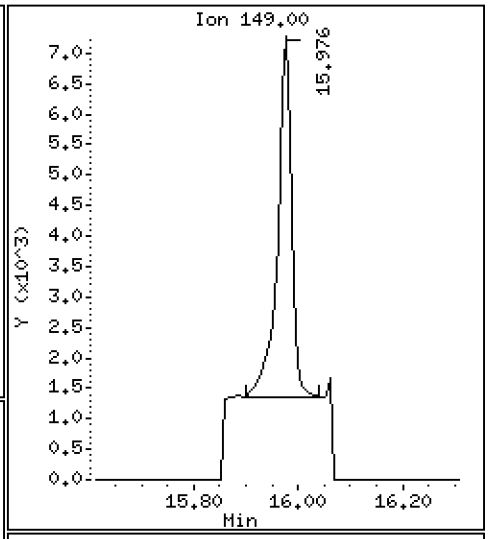
Column phase: ZB-5msi

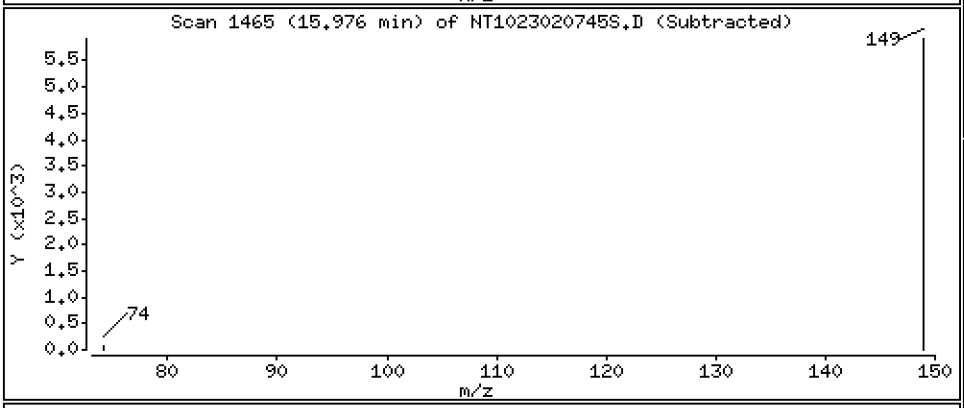
Column diameter: 0.25

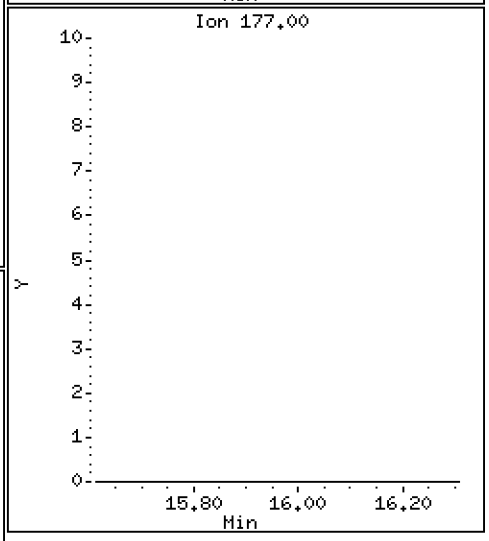
50 Diethylphthalate

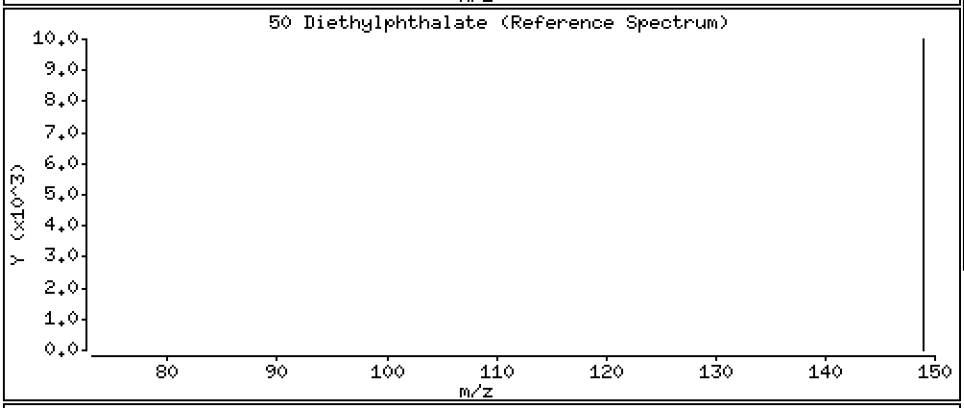
Concentration: 0.1992 ug/L

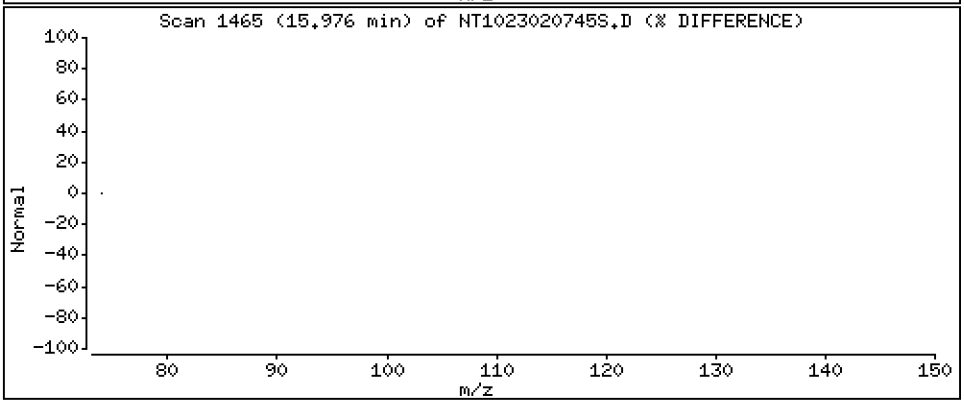












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Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

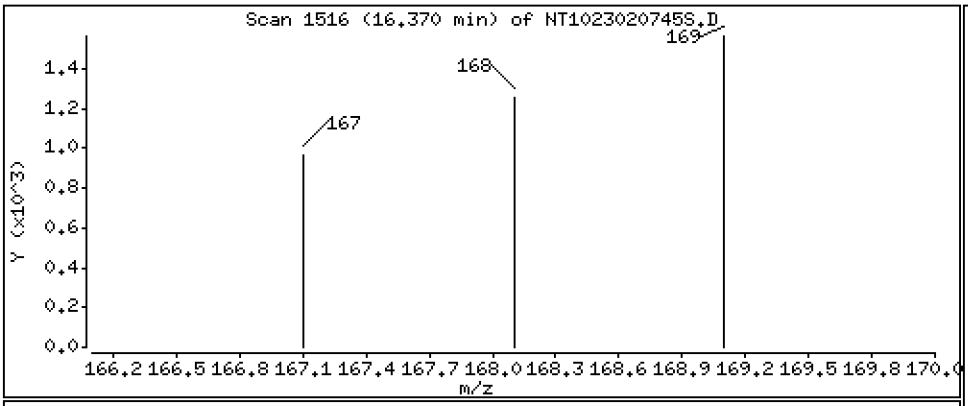
Operator: DSD

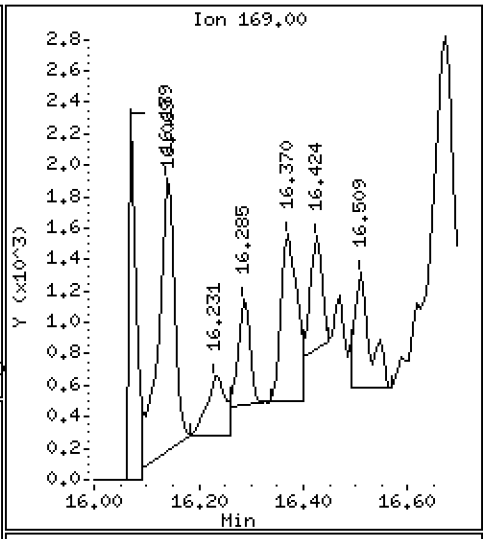
Column phase: ZB-5msi

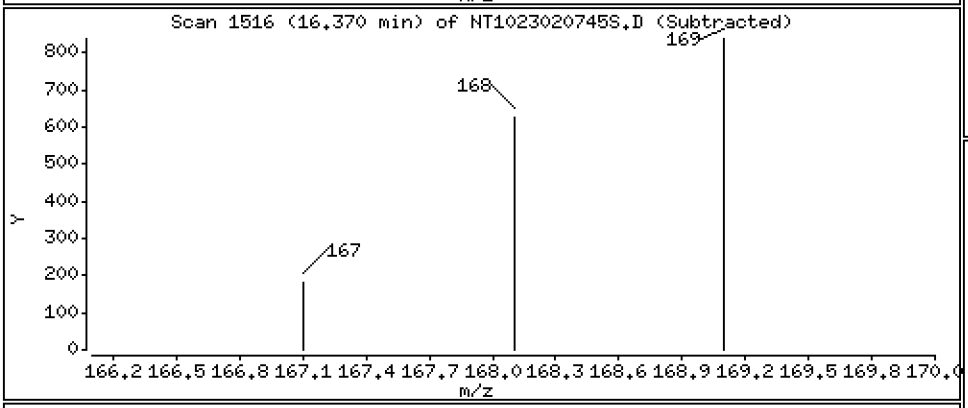
Column diameter: 0.25

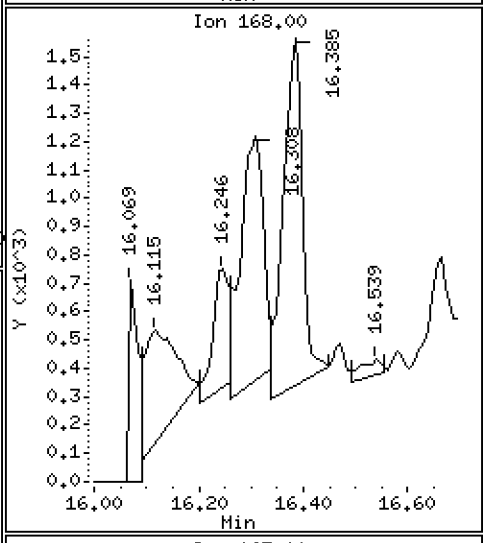
54 N-Nitrosodiphenylamine

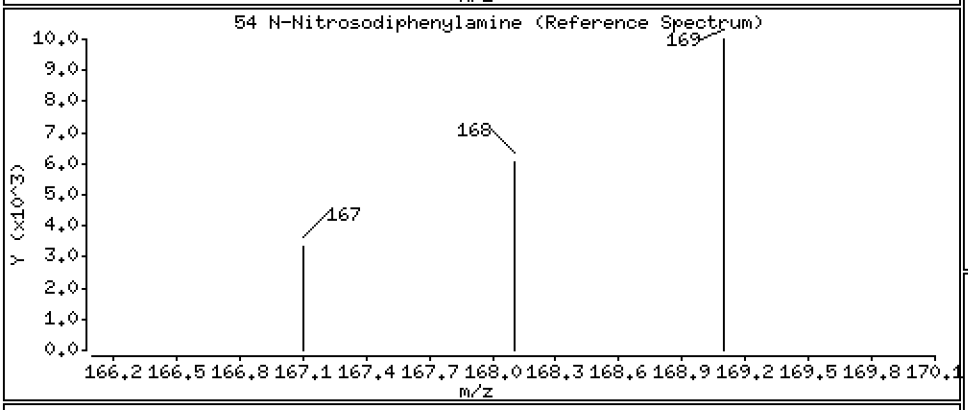
Concentration: 0.05001 ug/L

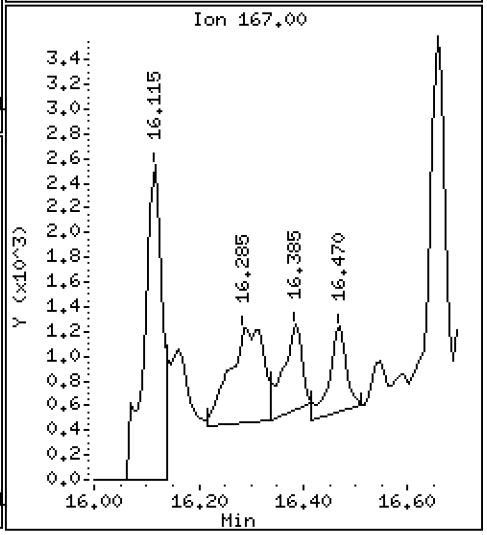


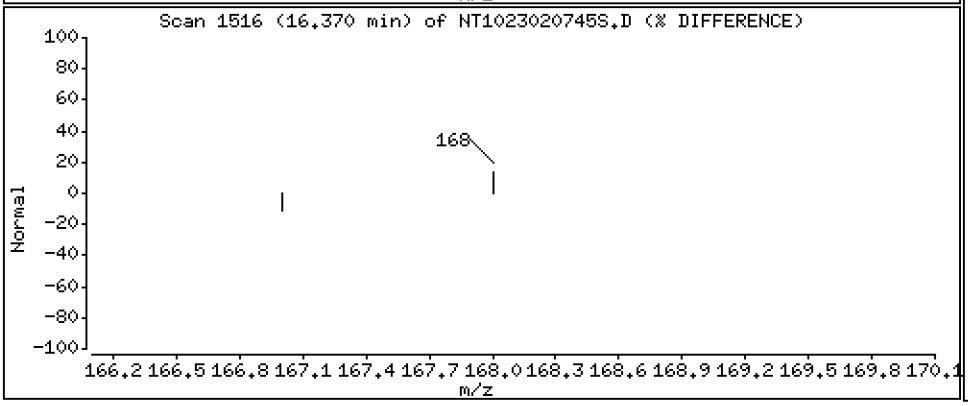












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Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

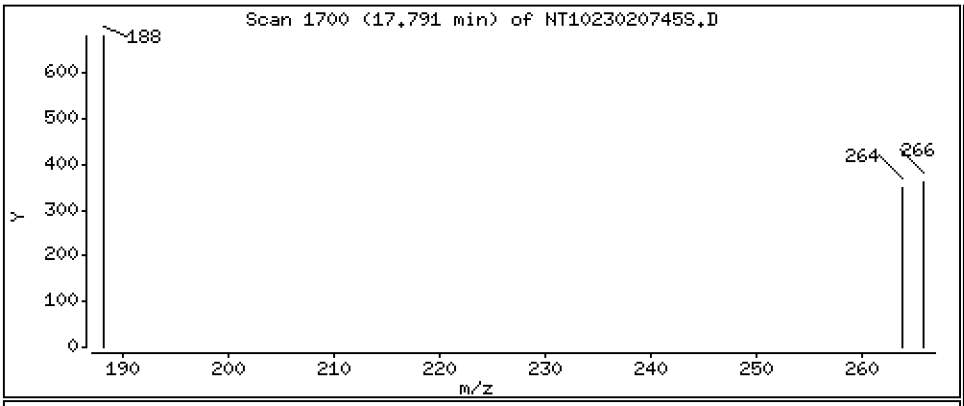
Operator: DSD

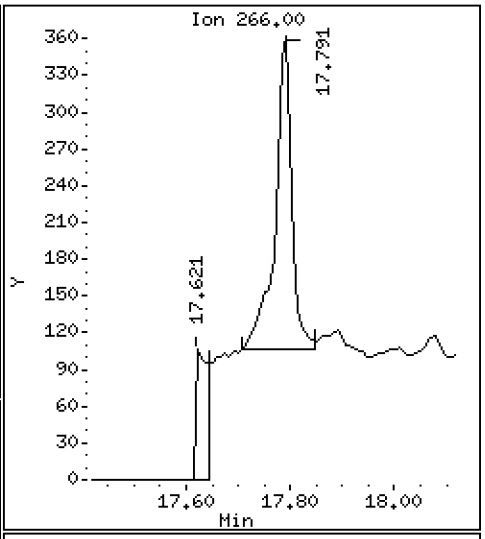
Column phase: ZB-5msi

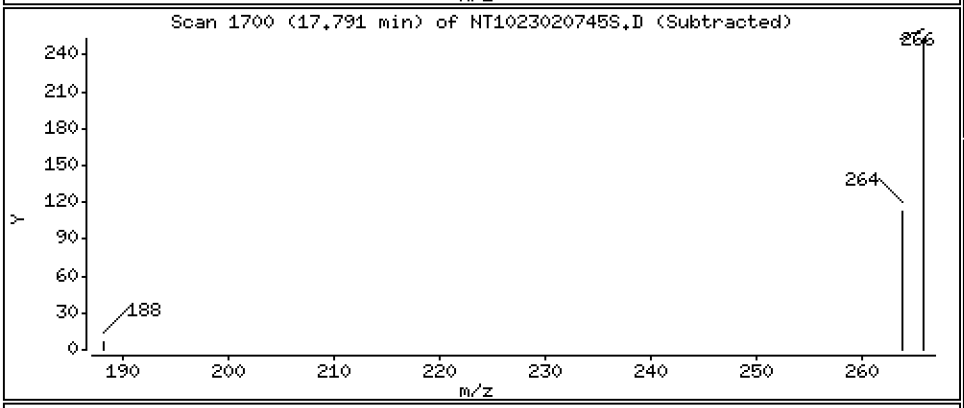
Column diameter: 0.25

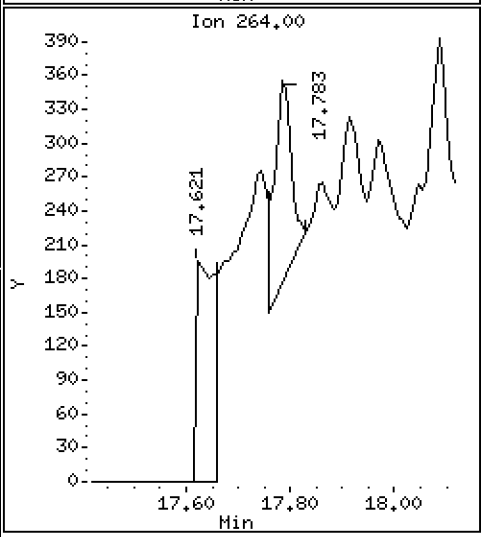
58 Pentachlorophenol

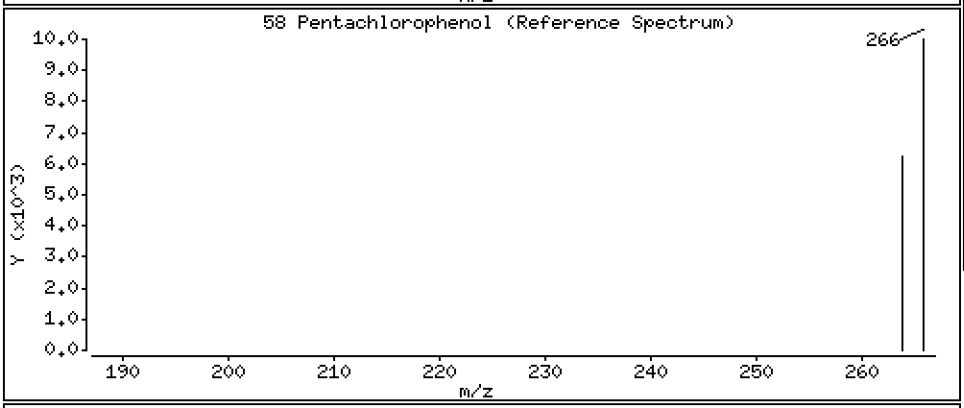
Concentration: 0.07774 ug/L

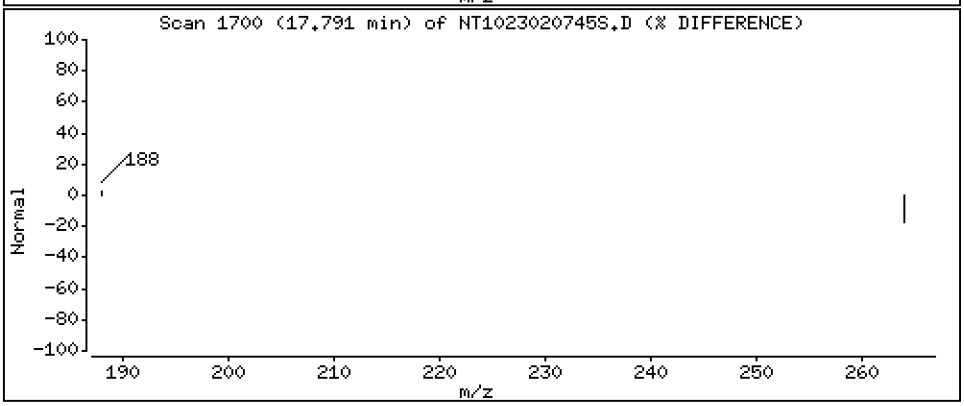












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Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

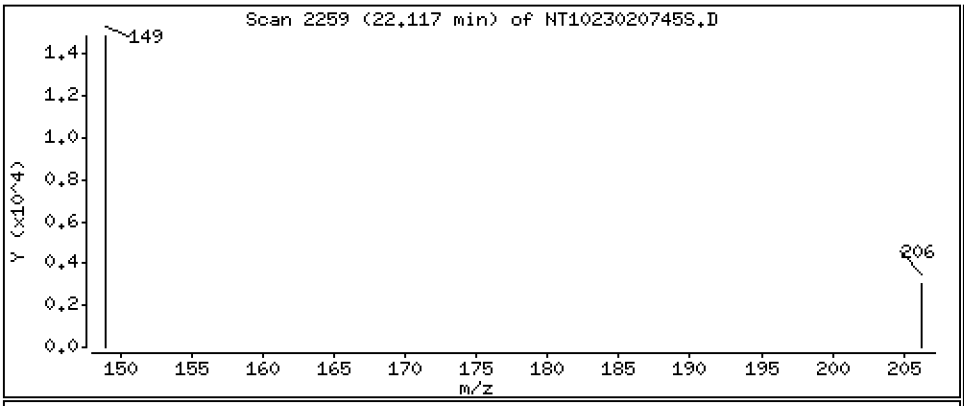
Operator: DSD

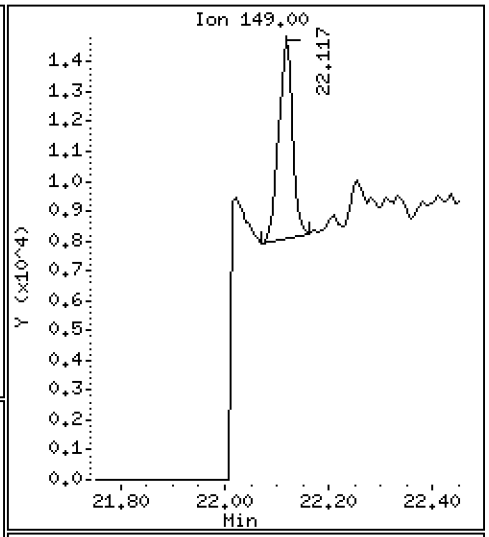
Column phase: ZB-5msi

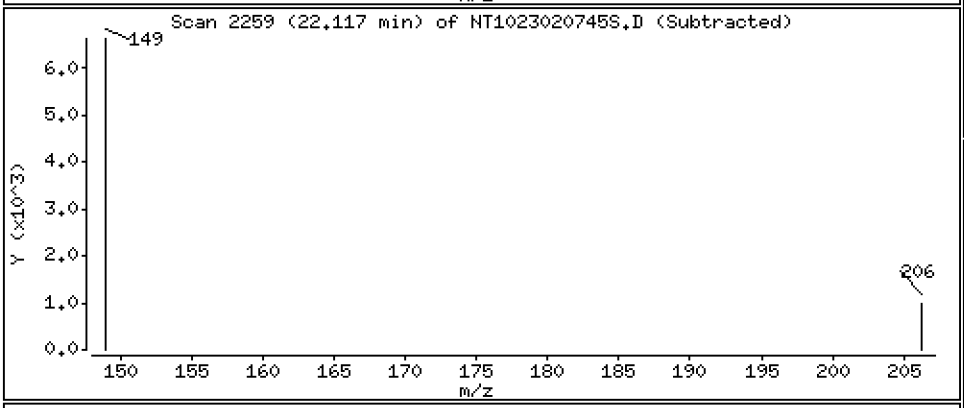
Column diameter: 0.25

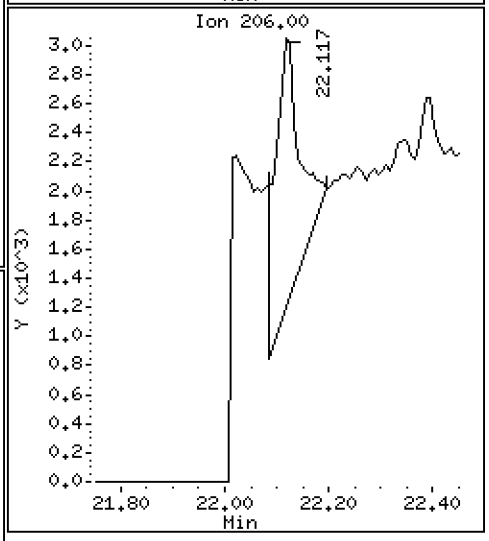
67 Butylbenzylphthalate

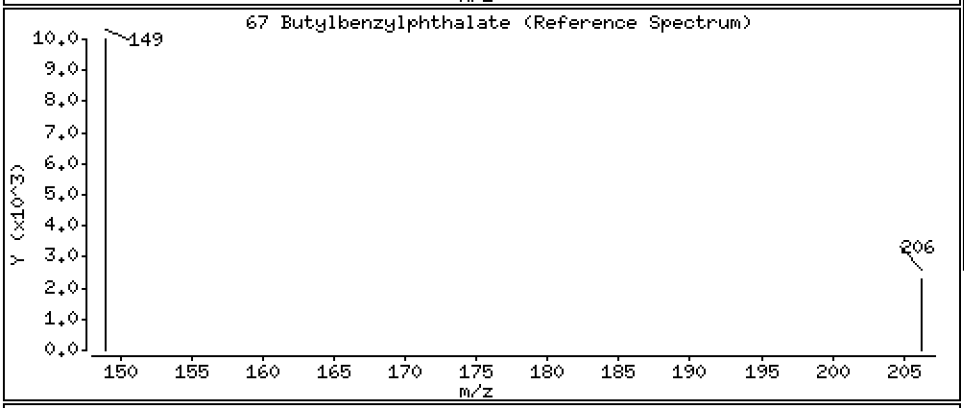
Concentration: 0.3535 ug/L

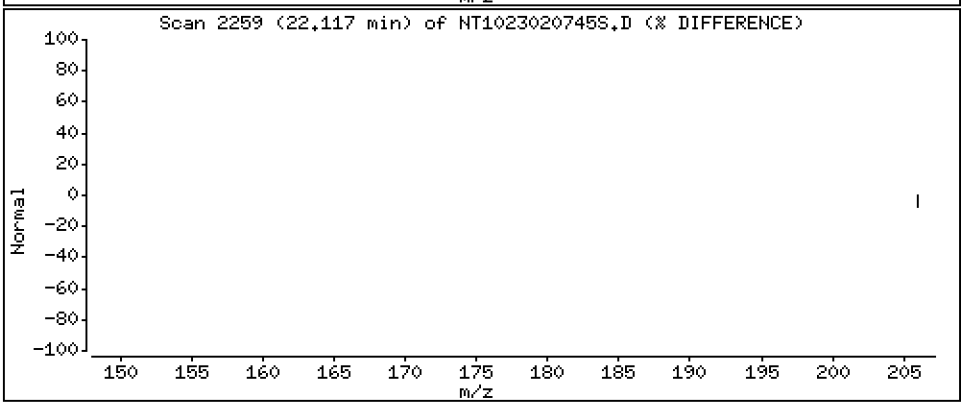












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Date : 08-FEB-2023 15:41

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-05

Volume Injected (uL): 1.0

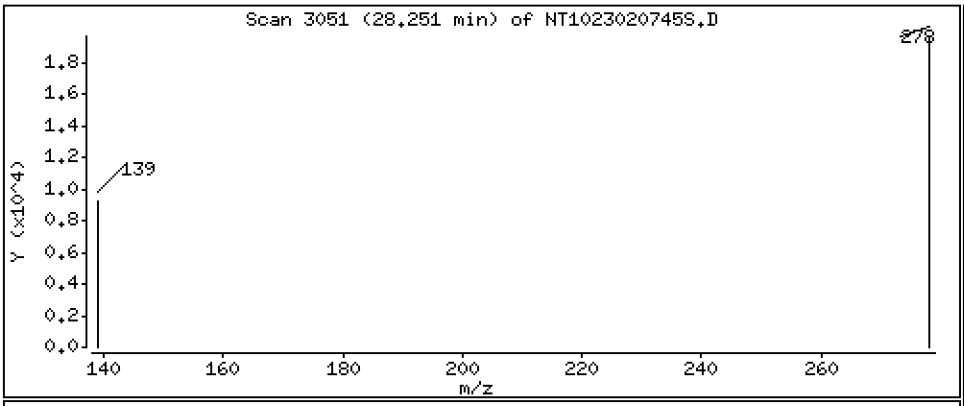
Operator: DSD

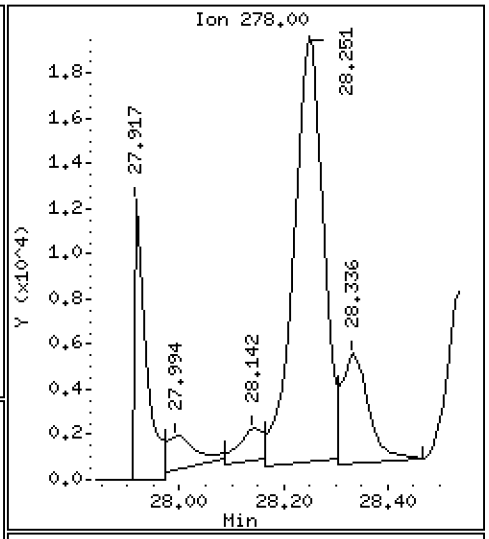
Column phase: ZB-5msi

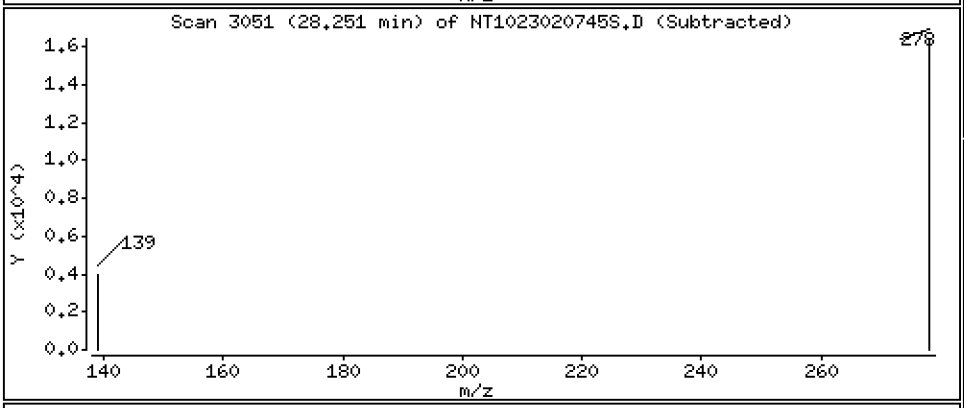
Column diameter: 0.25

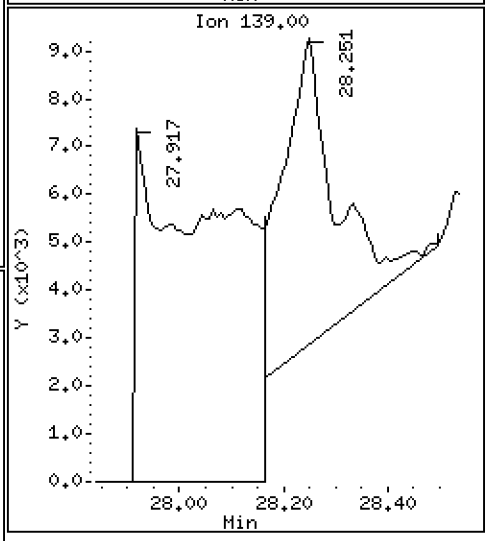
79 Dibenzo(a,h)anthracene

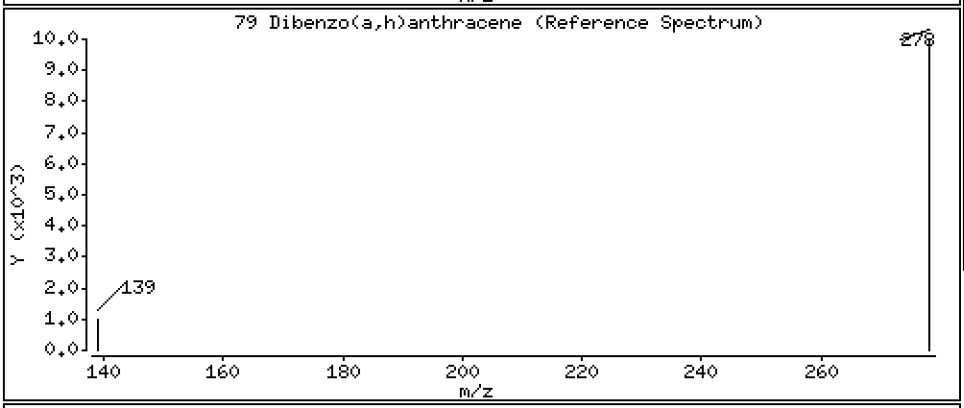
Concentration: 1.415 ug/L

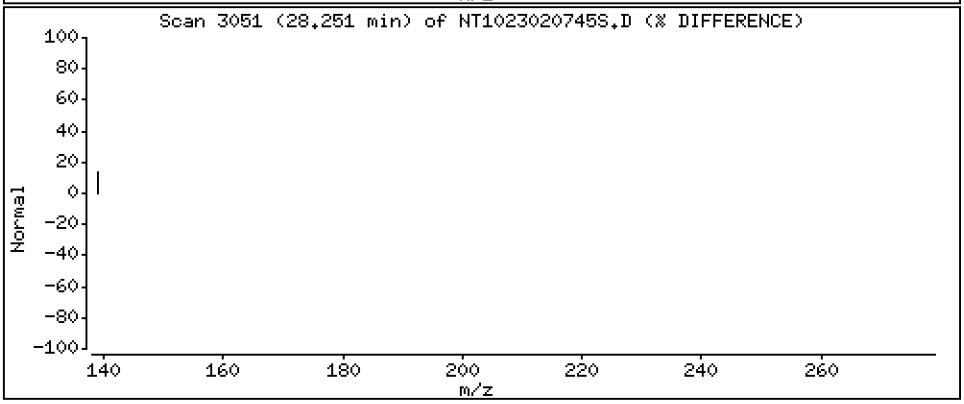












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020745S.D
Lab Smp Id: 22L0459-05
Inj Date : 08-FEB-2023 15:41 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : 22L0459-05
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.793	6.777	(0.757)	151073	5.65995	5.660(R)
3	Phenol	94	8.377	8.369	(0.934)	44287	1.10036	1.100
7	1,3-Dichlorobenzene	146	8.910	8.902	(0.993)	267	0.00737	0.007366(M)
* 8	1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	87773	4.00000	
9	1,4-Dichlorobenzene	146	9.003	8.996	(1.003)	1519	0.04286	0.04286(M)
11	Benzyl alcohol	79	9.244	9.236	(1.030)	15384	0.78353	0.7835
12	1,2-Dichlorobenzene	146	9.353	9.353	(1.042)	460	0.01330	0.01330(M)
13	2-Methylphenol	108	9.477	9.461	(1.056)	1265	0.04604	0.04604
15	4-Methylphenol	108	9.741	9.733	(1.086)	16574	0.59140	0.5914
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.780	10.763	(0.943)	1534	0.05082	0.05082
24	Benzoic acid	105	10.915	10.924	(0.955)	24753	1.75850	1.759
26	1,2,4-Trichlorobenzene	180	11.350	11.342	(0.993)	278	0.00983	0.009825
* 27	Naphthalene-d8	136	11.427	11.427	(1.000)	343641	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	14.522	14.514	(0.967)	4555	0.12123	0.1212
* 42	Acenaphthene-d10	162	15.017	15.009	(1.000)	161215	4.00000	
50	Diethylphthalate	149	15.976	15.960	(1.064)	11271	0.19918	0.1992(M)
54	N-Nitrosodiphenylamine	169	16.369	16.346	(0.907)	2472	0.05001	0.05001
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.791	17.768	(0.986)	569	0.07774	0.07774
*	59 Phenanthrene-d10	188	18.038	18.023	(1.000)	299100	4.00000	
$	66 Terphenyl-d14	244	21.195	21.164	(0.918)	250907	5.02172	5.022(R)
	67 Butylbenzylphthalate	149	22.116	22.101	(0.957)	11938	0.35347	0.3535(M)
*	69 Chrysene-d12	240	23.100	23.069	(1.000)	225102	4.00000	
*	77 Perylene-d12	264	25.686	25.631	(1.000)	189075	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.250	28.188	(1.100)	74988	1.41514	1.415(H)
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020745S.D
Lab Smp Id: 22L0459-05
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	87773	-28.98
27 Naphthalene-d8	454738	227369	909476	343641	-24.43
42 Acenaphthene-d10	223117	111559	446234	161215	-27.74
59 Phenanthrene-d10	408770	204385	817540	299100	-26.83
69 Chrysene-d12	339328	169664	678656	225102	-33.66
77 Perylene-d12	382671	191336	765342	189075	-50.59 <-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	-0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	-0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.02	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.04	0.09
69 Chrysene-d12	23.07	22.57	23.57	23.10	0.13
77 Perylene-d12	25.63	25.13	26.13	25.69	0.21

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020745S.D

Lab ID: 22L0459-05
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 15:41

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

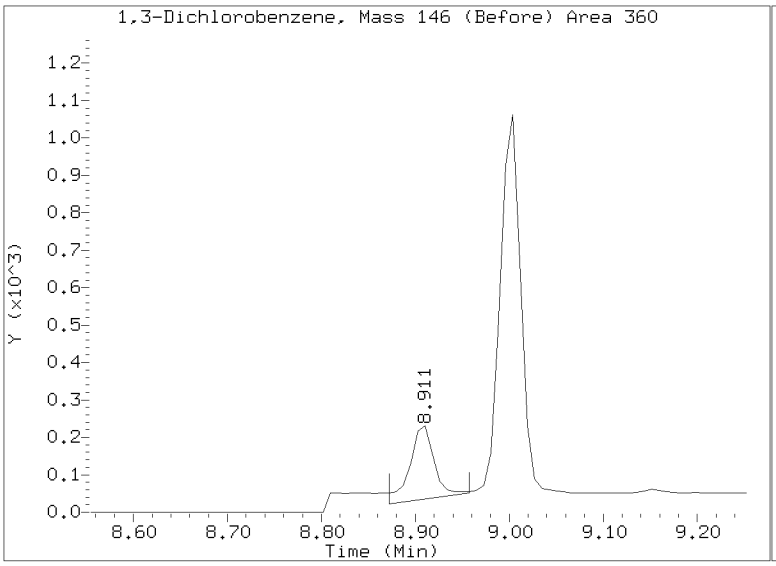
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

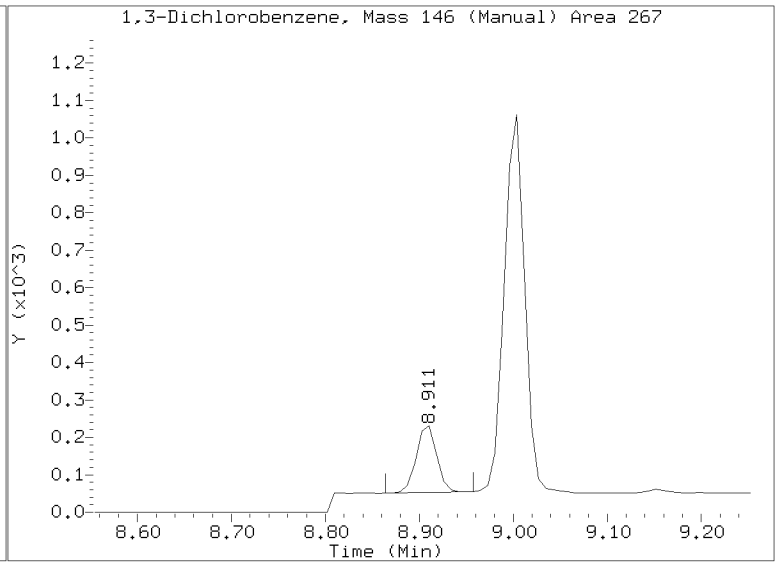
Exception: 1,2,4-Trichlorobenzene 0.0010

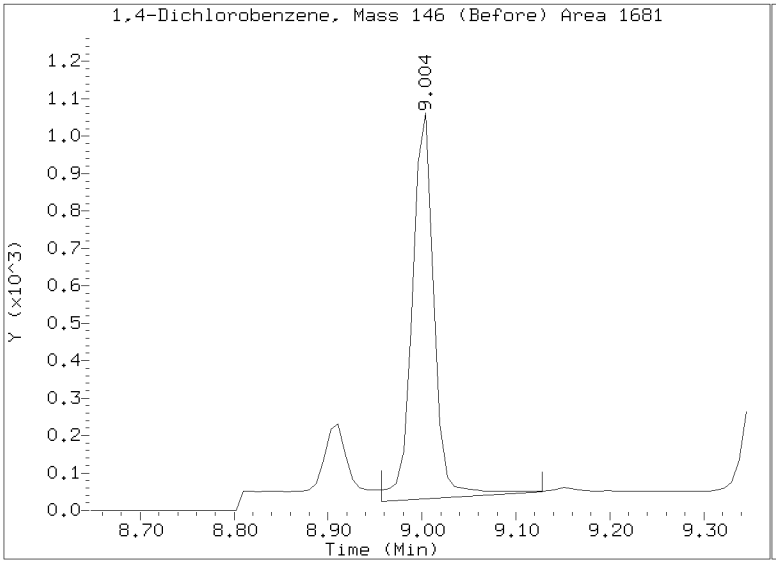
* Only compounds listed in the work order have been verified by the analyst *

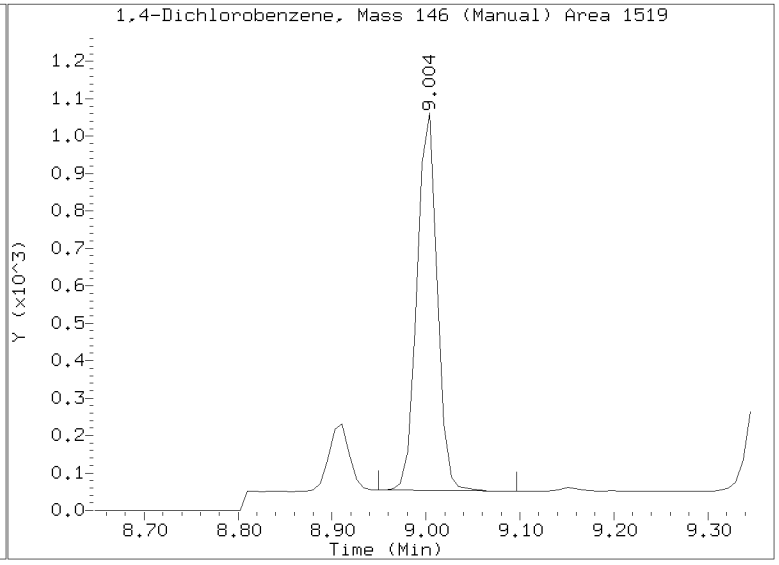
Quant Ion Manual Peak Adjustment Report

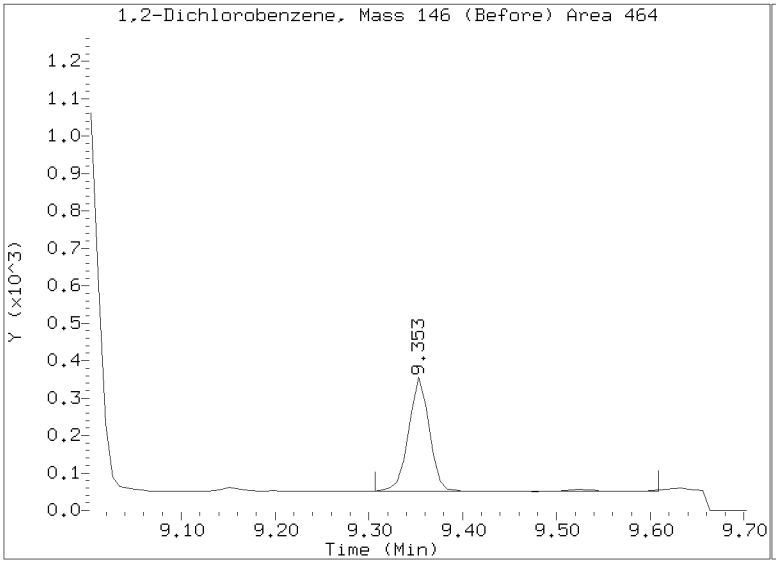
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020745S.D
Injection Date: 08-FEB-2023 15:41
Lab ID:22L0459-05 Client ID:
Report Date: 02/09/2023 15:00

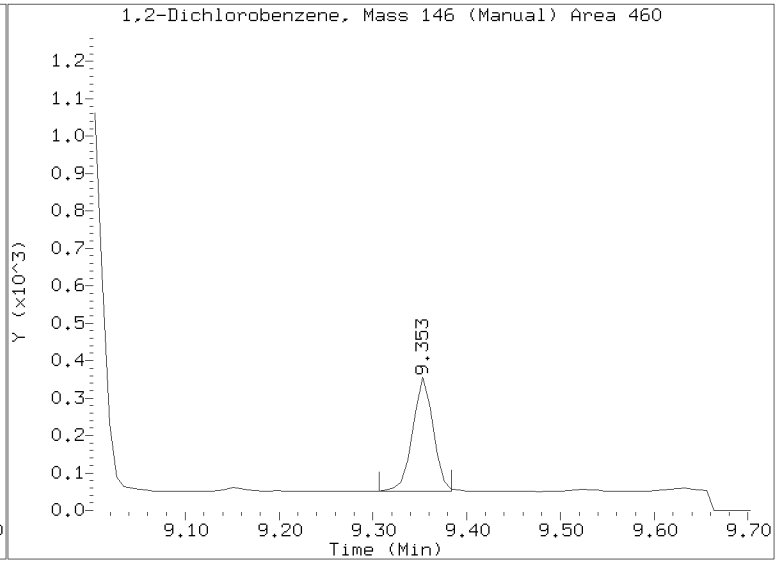






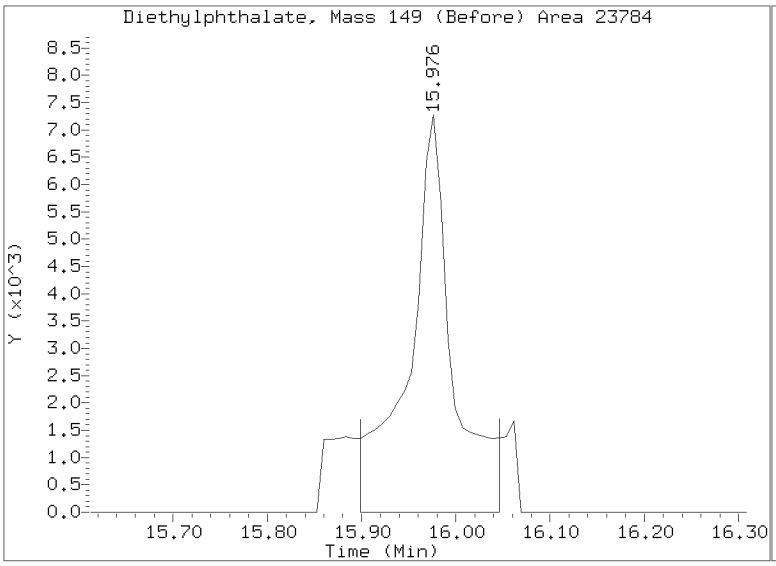


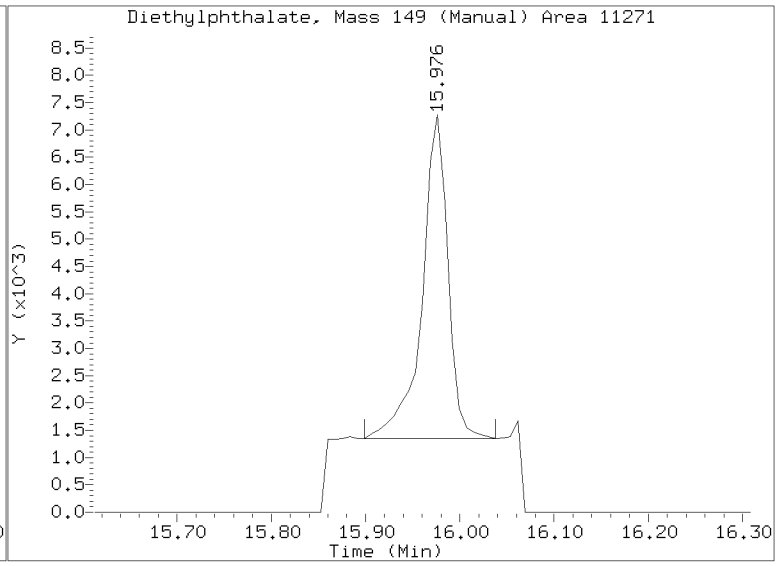


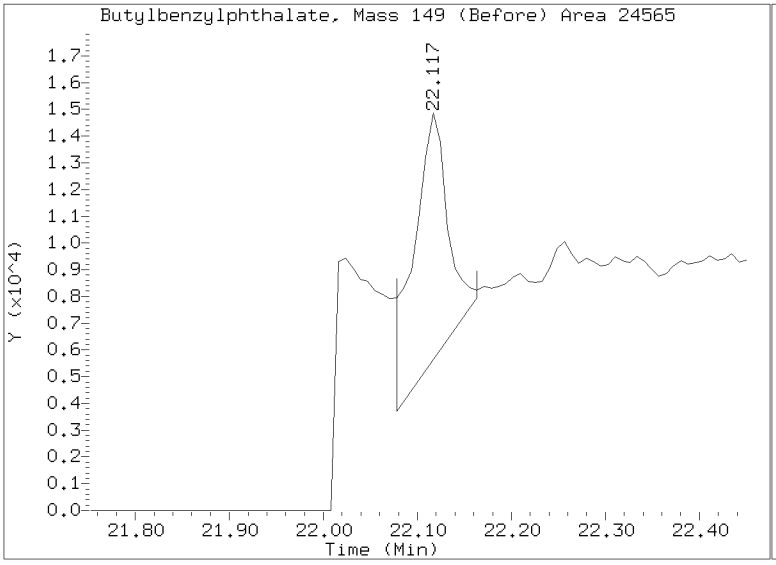


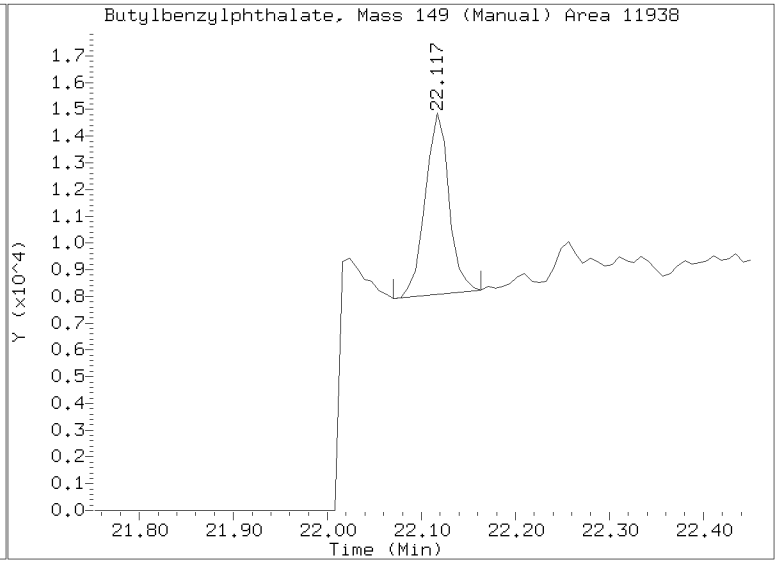
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020745S.D
Injection Date: 08-FEB-2023 15:41
Lab ID:22L0459-05 Client ID:
Report Date: 02/09/2023 15:00









Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1070B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-06 A	SDG:	22L0459
Sampled:	12/16/22 12:01	Prepared:	01/05/23 16:13	File ID:	NT1023020746S.D
% Solids:	52.36	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/08/23 16:20
Batch:	BLA0064	Sequence:	SLB0106	Initial/Final:	19.11 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GB00019

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	7.9		0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	3.0	J	0.7	5.0
100-51-6	Benzyl Alcohol	1	61.9		2.5	20.0
65-85-0	Benzoic acid	1	163		13.4	99.9
105-67-9	2,4-Dimethylphenol	1	5.5	J	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	2.7	J	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	11.3		1.3	5.0
87-86-5	Pentachlorophenol	1	10.8	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.55	602	80.3	27 - 120	
p-Terphenyl-d14	499.70	509	102	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207465.D

Page 1

Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

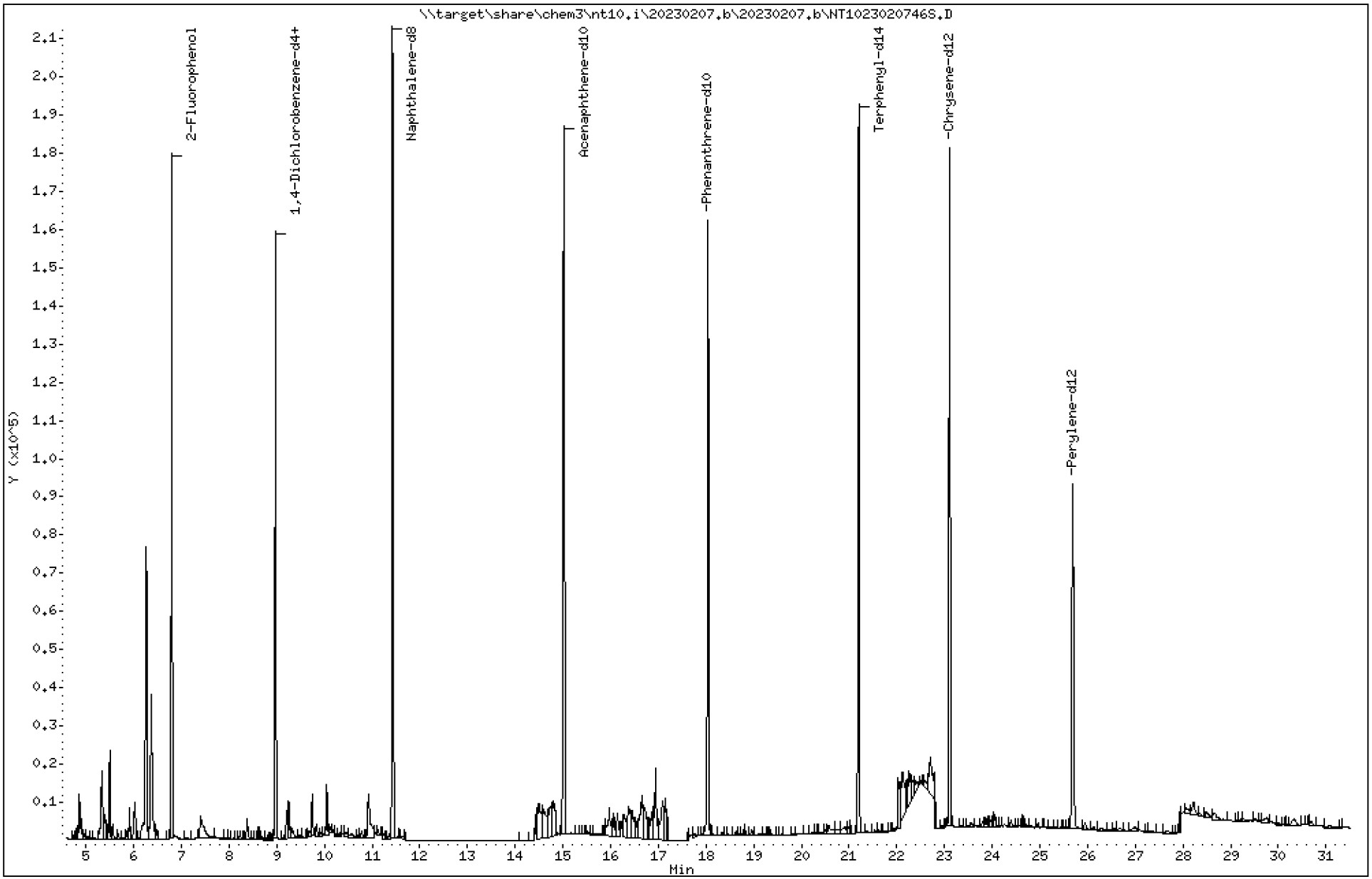
Sample Info: 22L0459-06

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

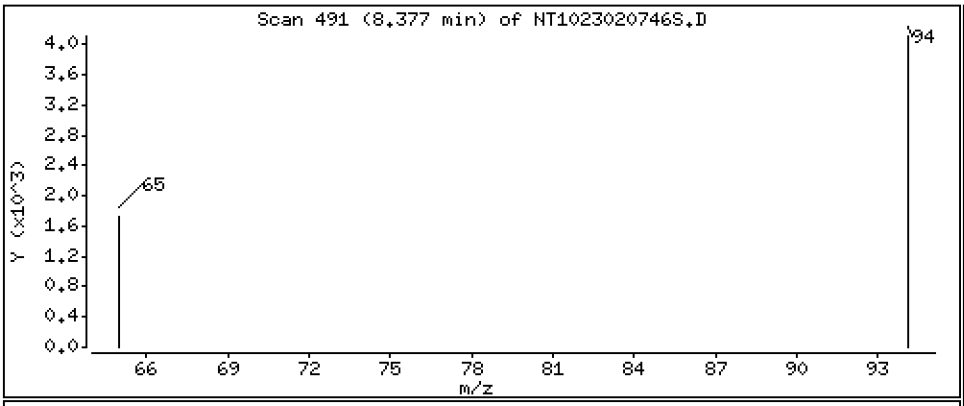
Operator: DSD

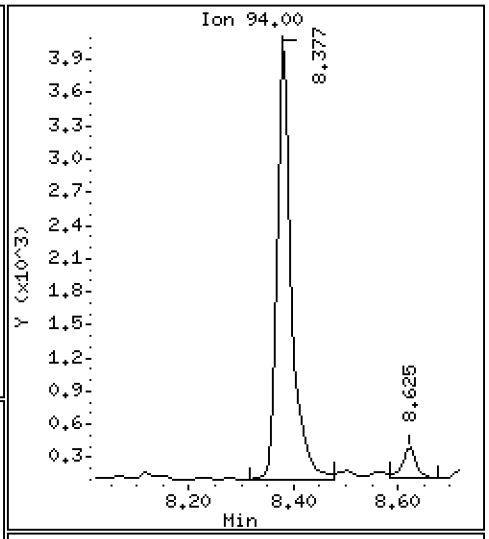
Column phase: ZB-5msi

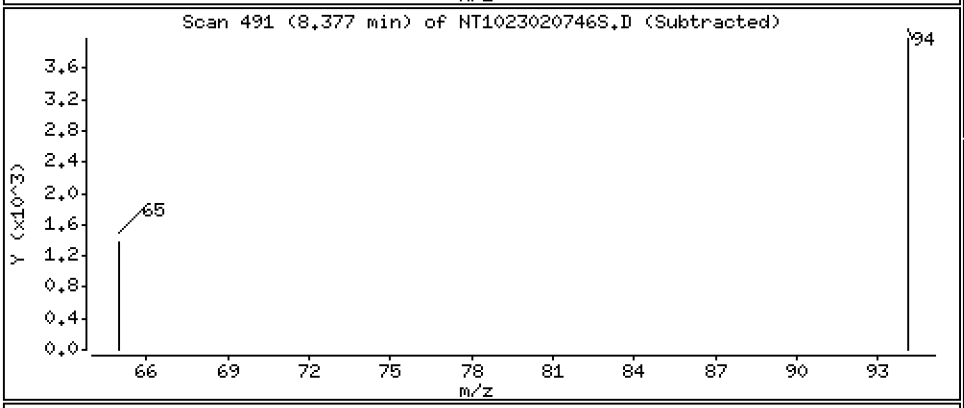
Column diameter: 0.25

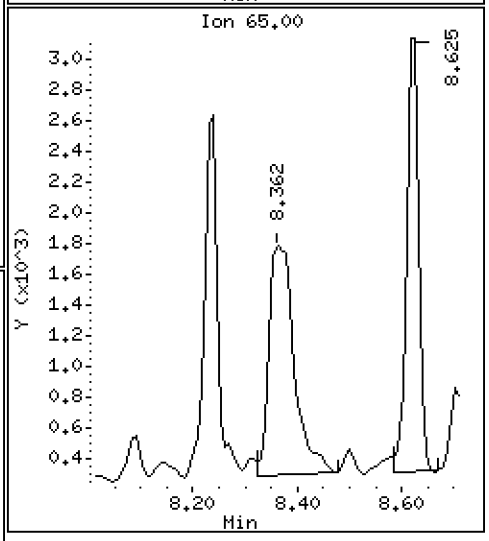
3 Phenol

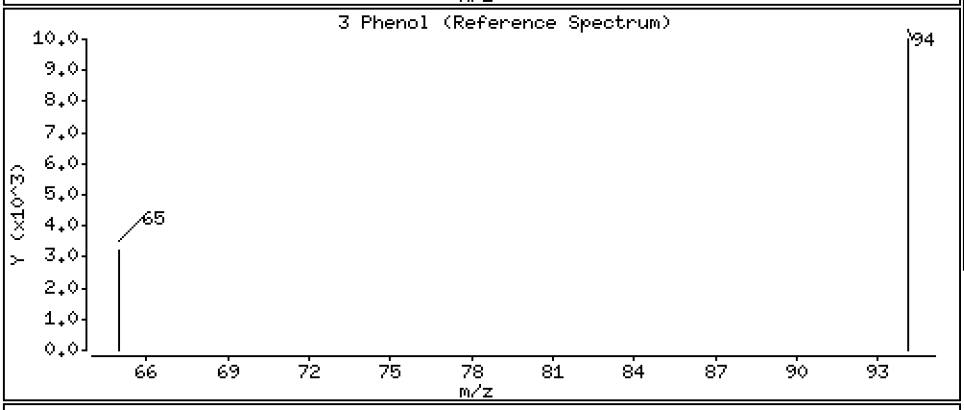
Concentration: 0.1838 ug/L

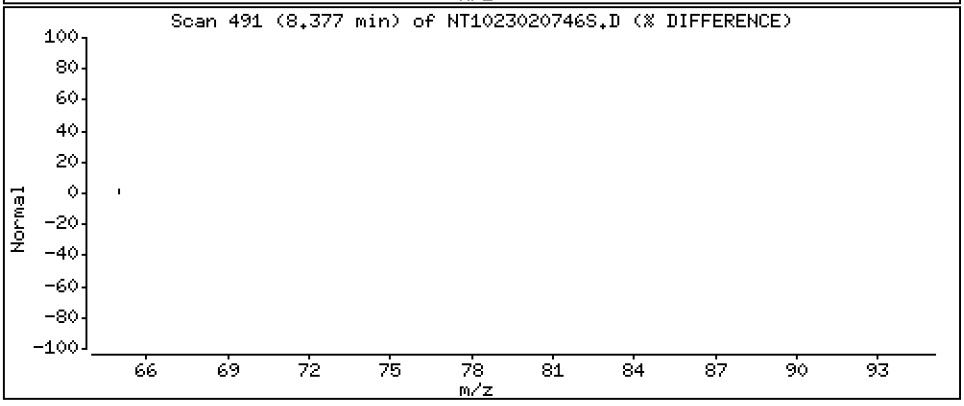












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Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

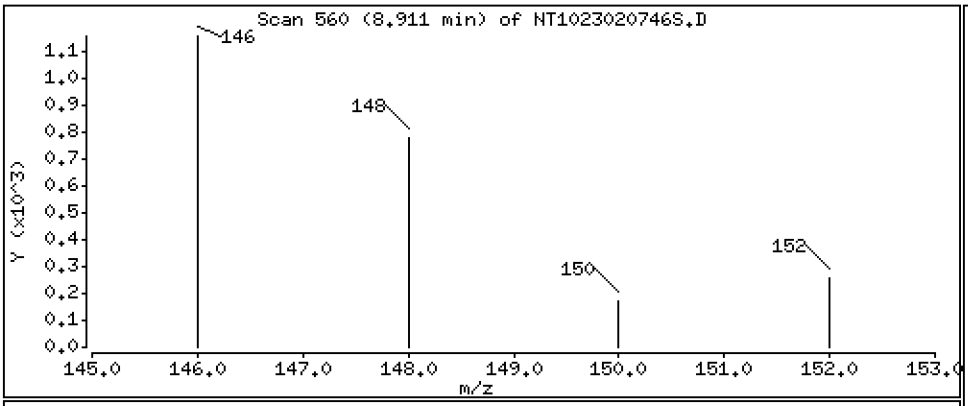
Operator: DSD

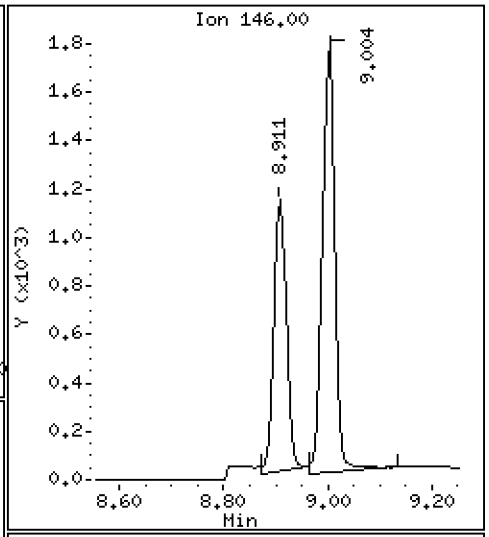
Column phase: ZB-5msi

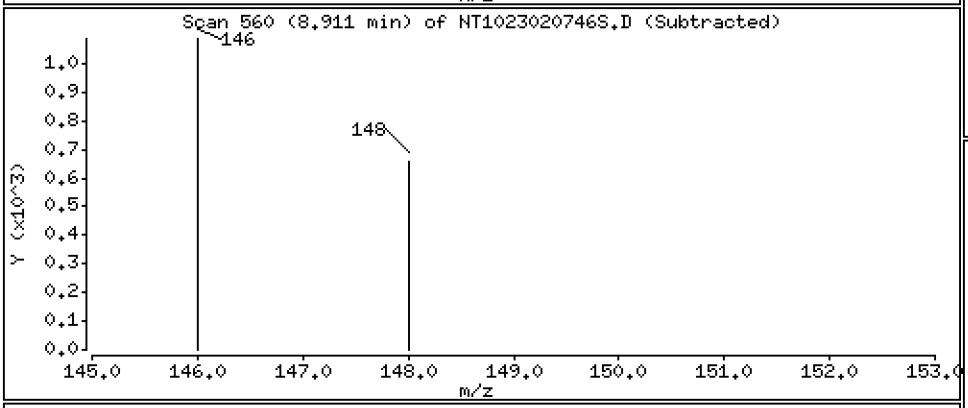
Column diameter: 0.25

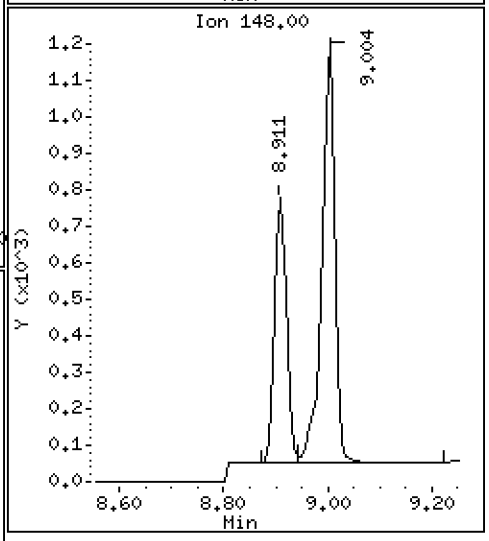
7 1,3-Dichlorobenzene

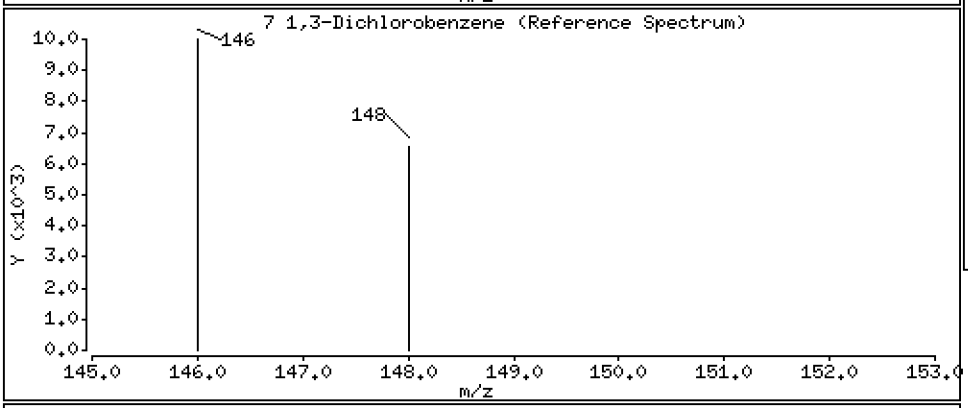
Concentration: 0.04885 ug/L

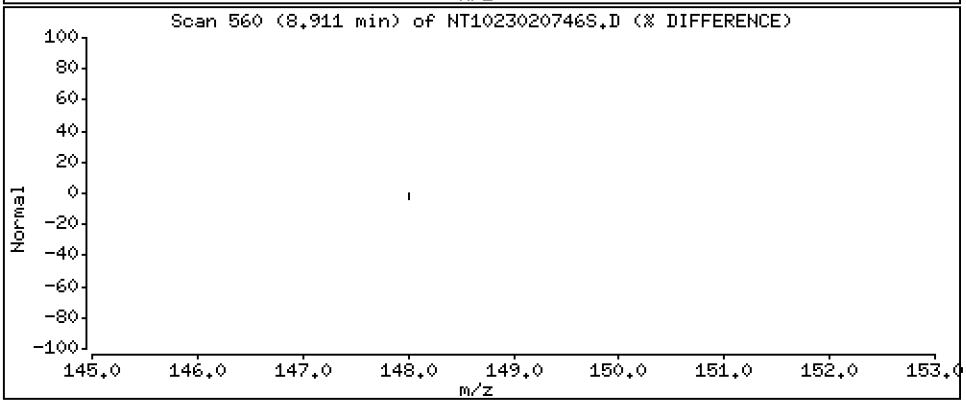












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Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

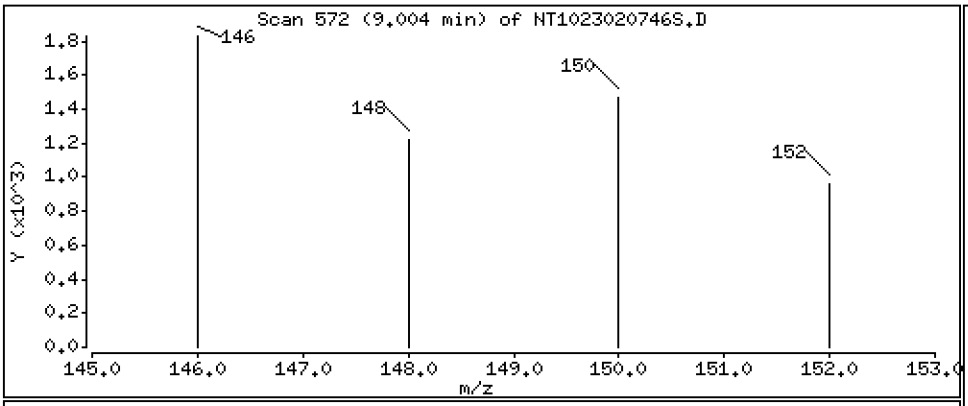
Operator: DSD

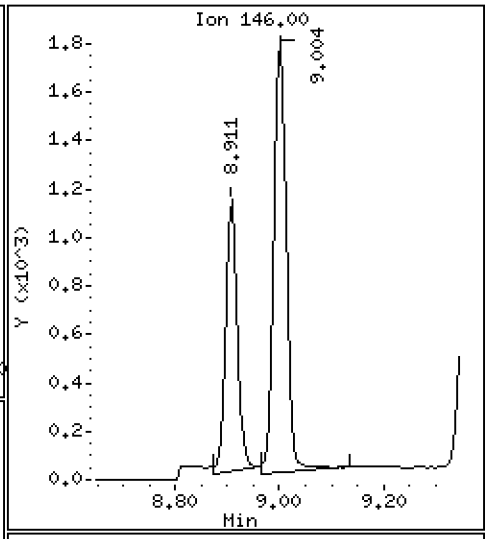
Column phase: ZB-5msi

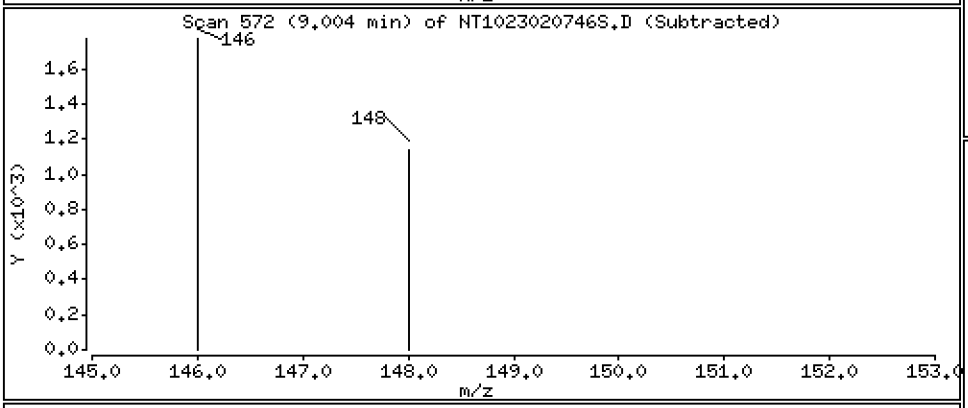
Column diameter: 0.25

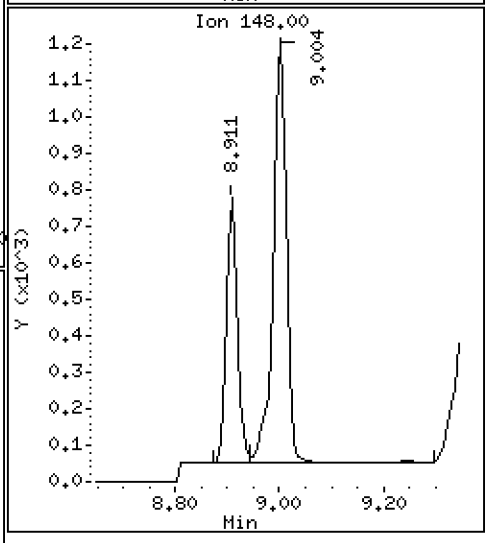
9 1,4-Dichlorobenzene

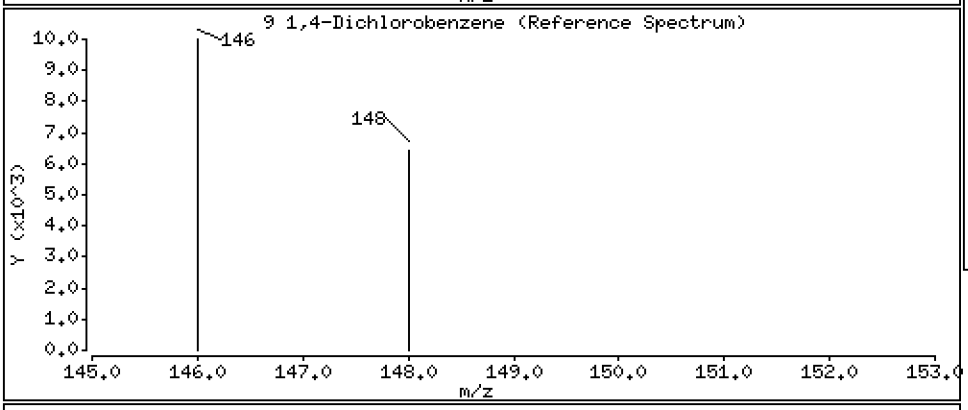
Concentration: 0.07864 ug/L

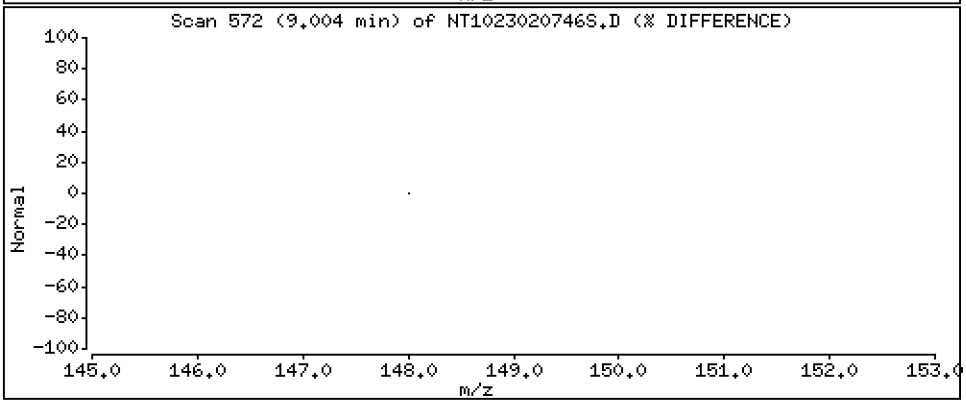












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Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

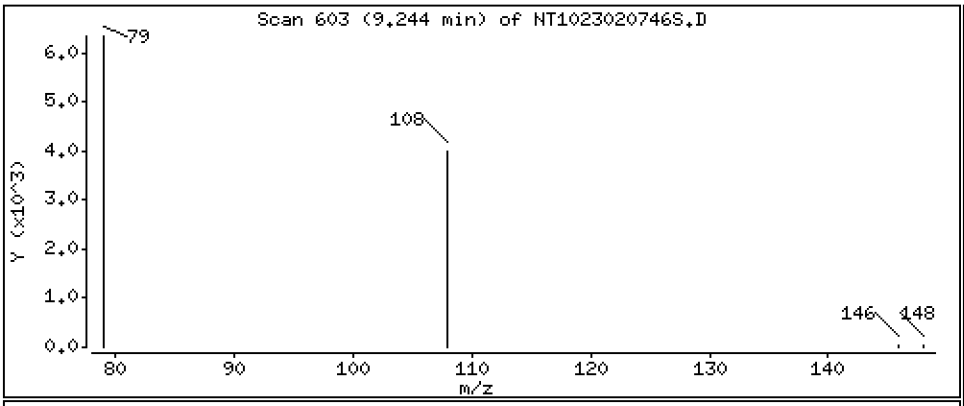
Operator: DSD

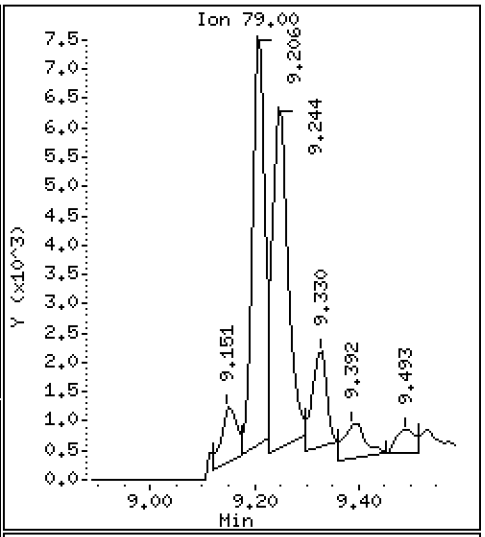
Column phase: ZB-5msi

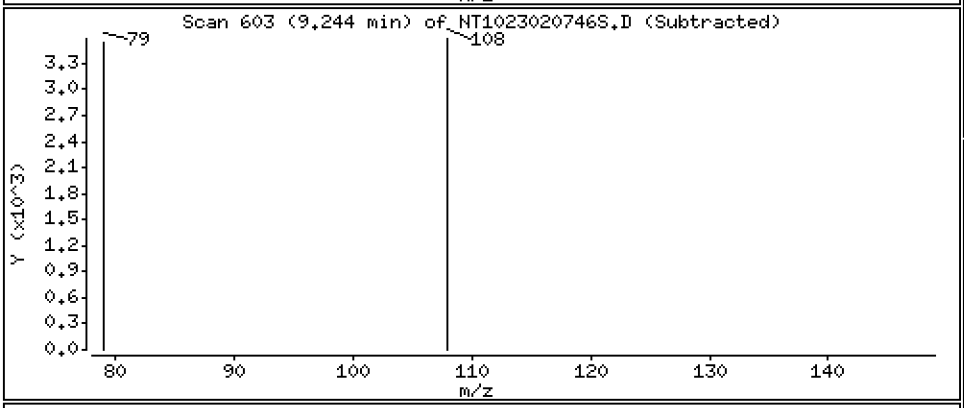
Column diameter: 0.25

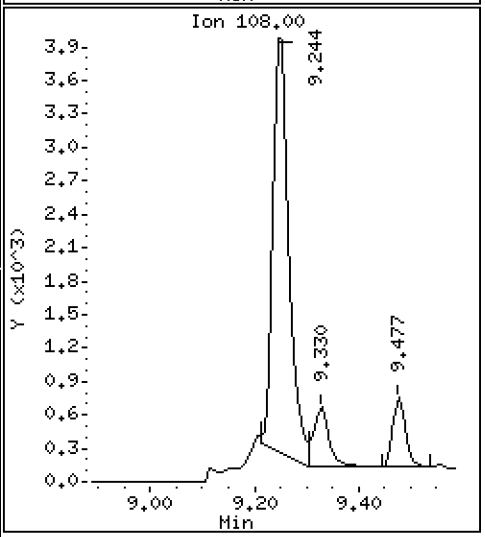
11 Benzyl alcohol

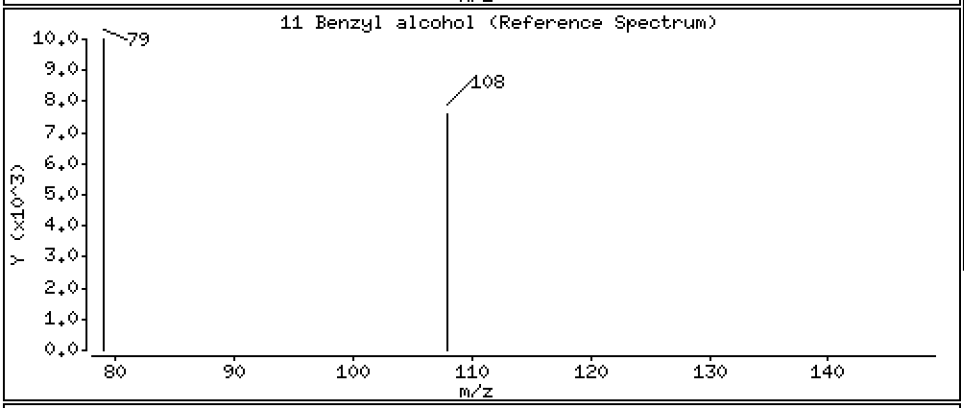
Concentration: 0.6195 ug/L

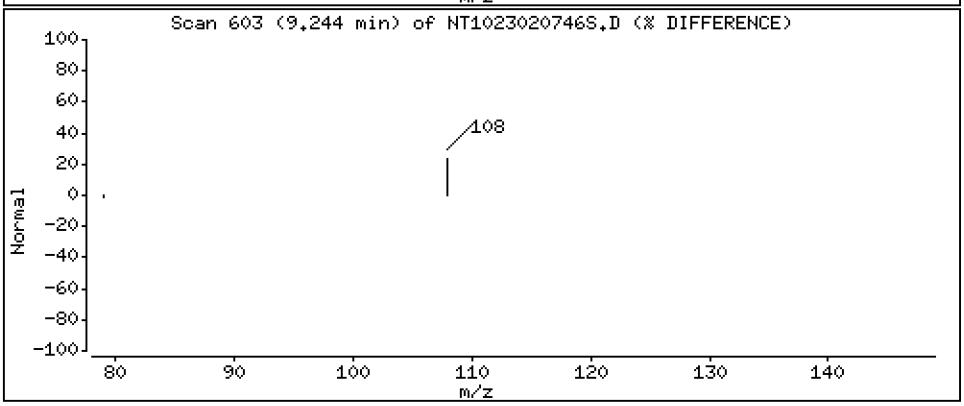












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207465S.D

Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

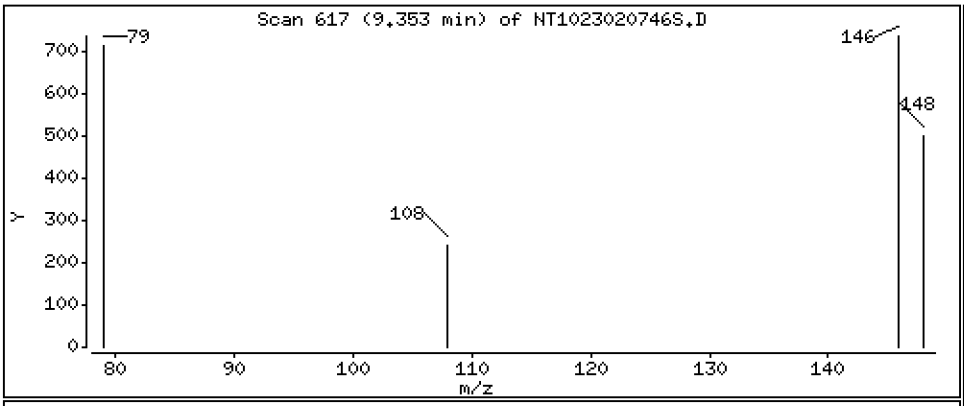
Operator: DSD

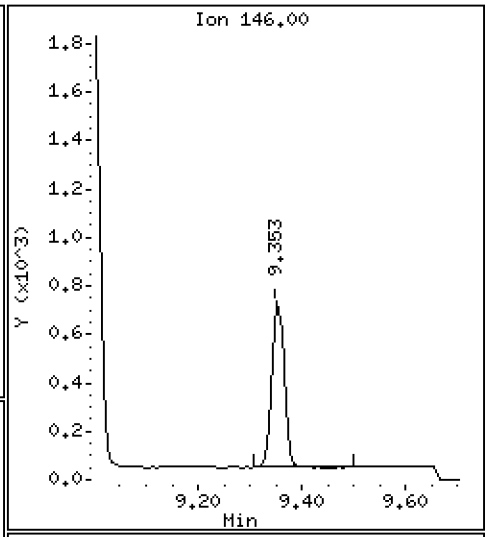
Column phase: ZB-5msi

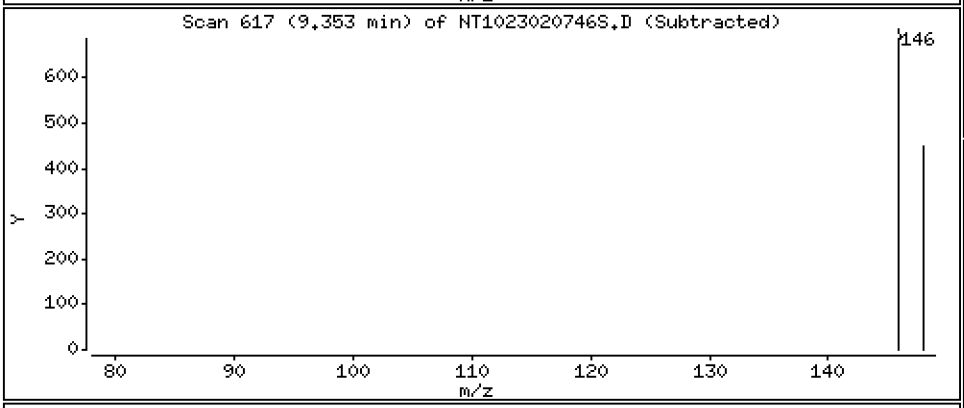
Column diameter: 0.25

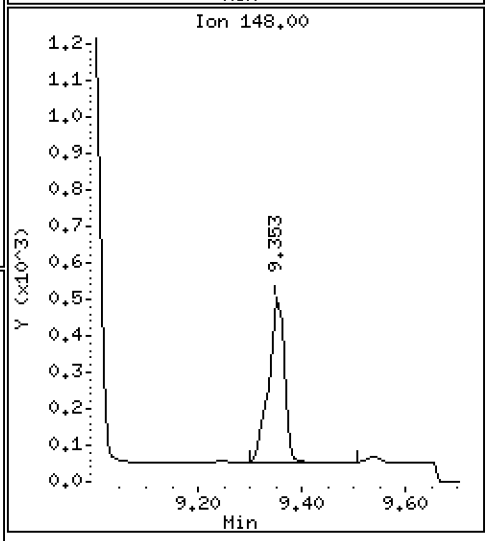
12 1,2-Dichlorobenzene

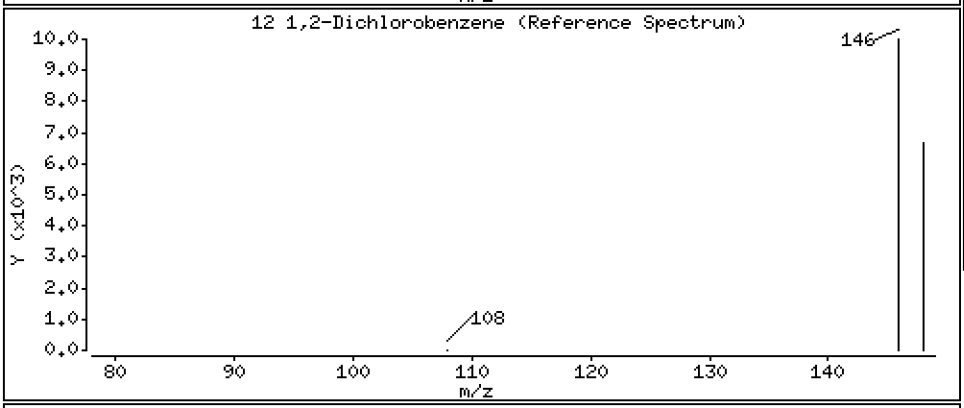
Concentration: 0.02975 ug/L

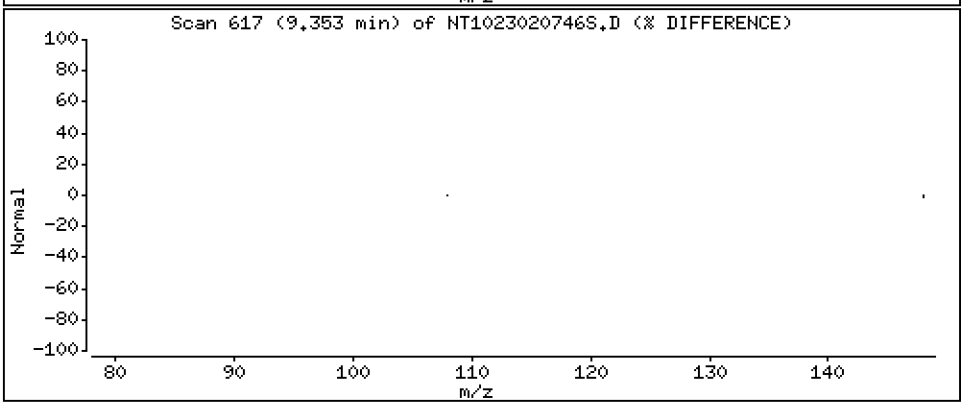












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Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

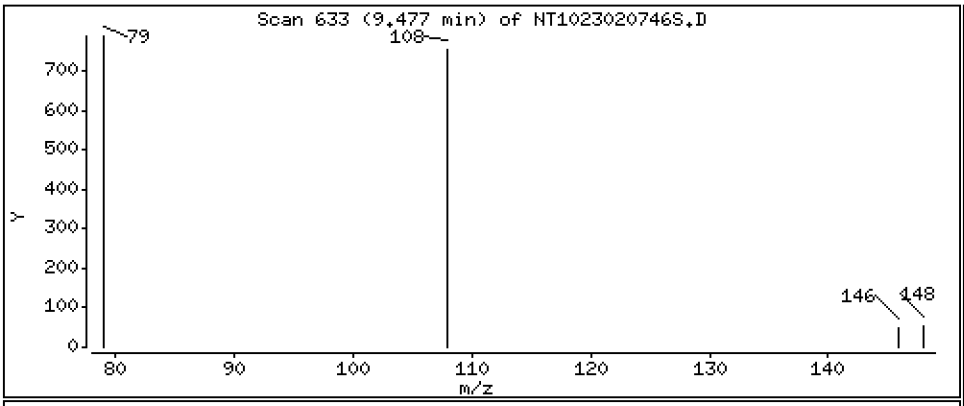
Operator: DSD

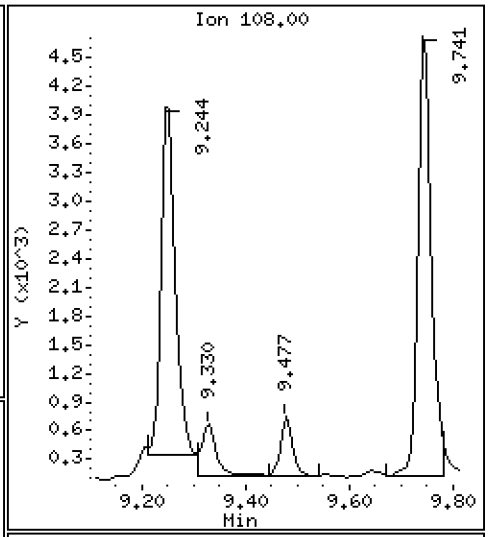
Column phase: ZB-5msi

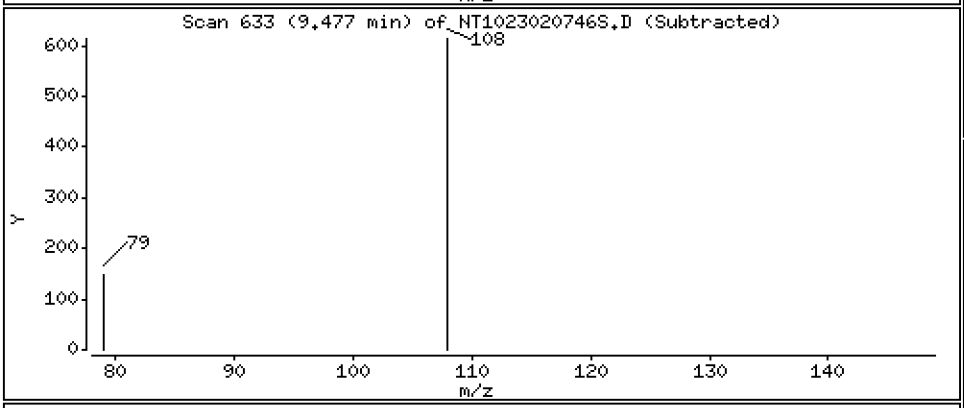
Column diameter: 0.25

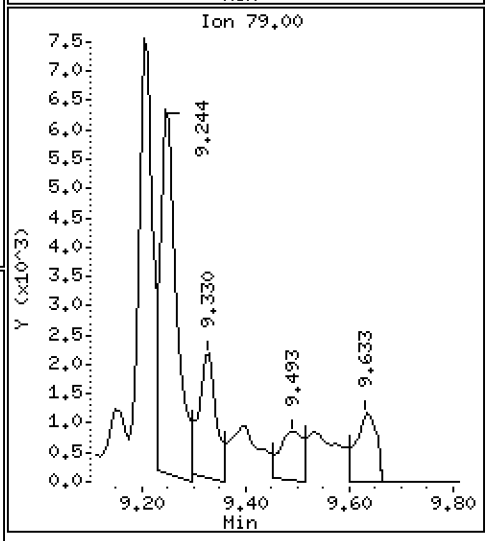
13 2-Methylphenol

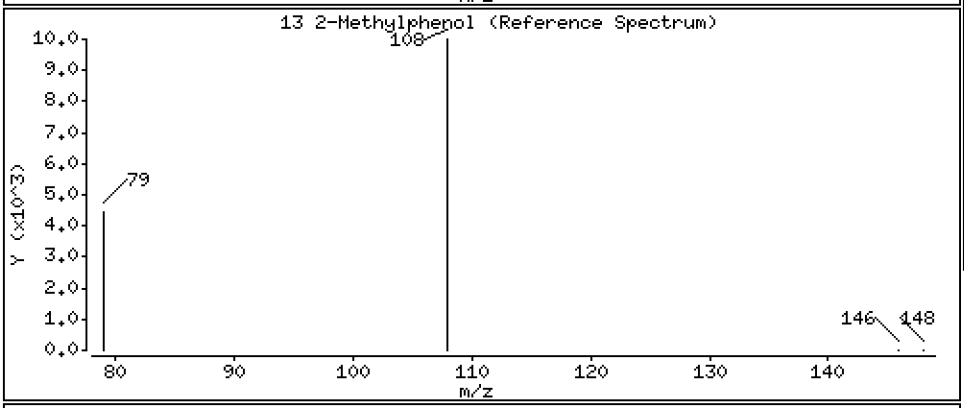
Concentration: 0.03531 ug/L

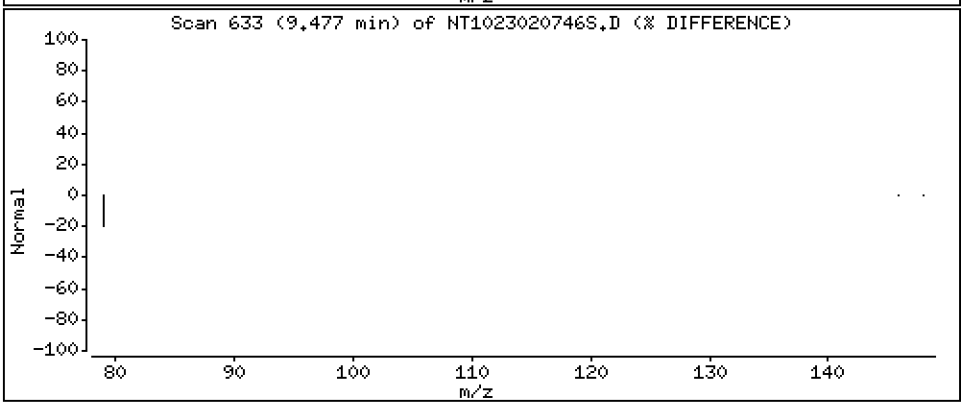












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Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

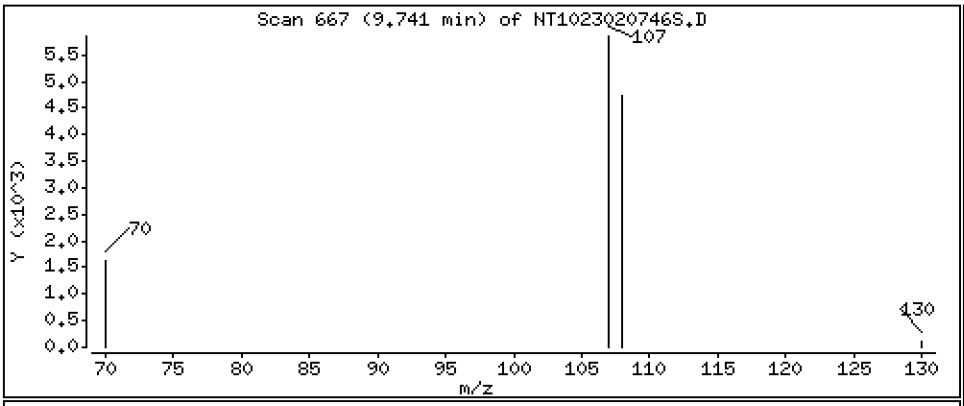
Operator: DSD

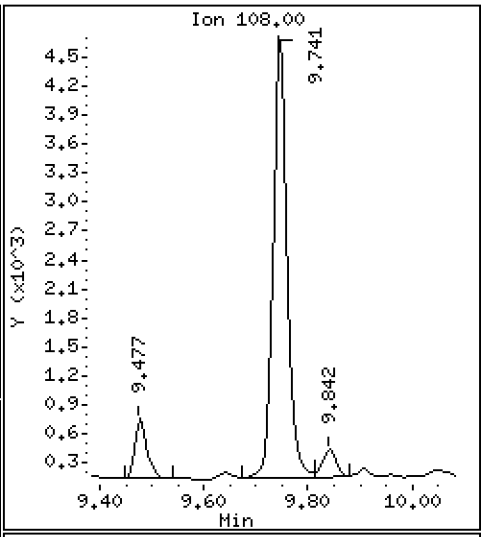
Column phase: ZB-5msi

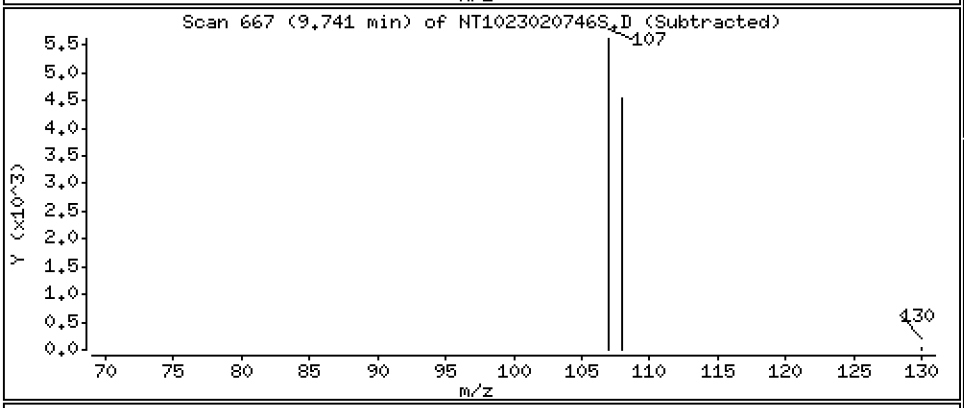
Column diameter: 0.25

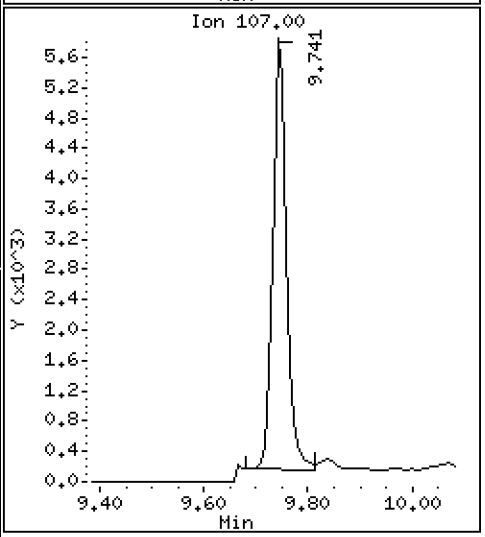
15 4-Methylphenol

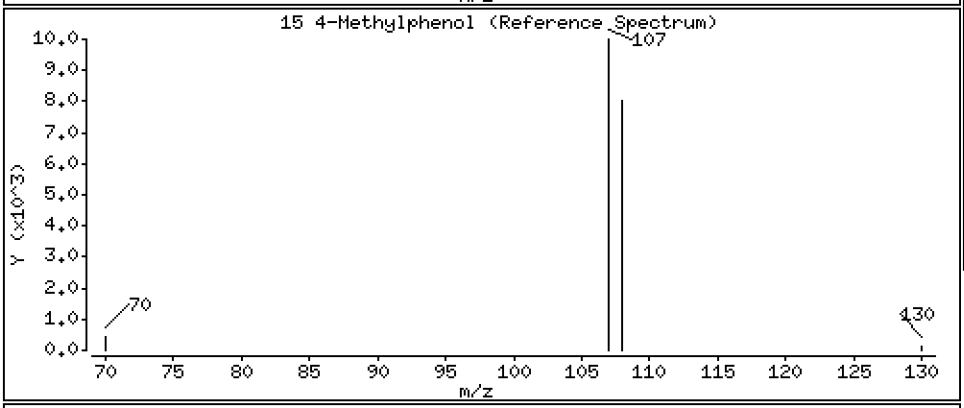
Concentration: 0.3019 ug/L

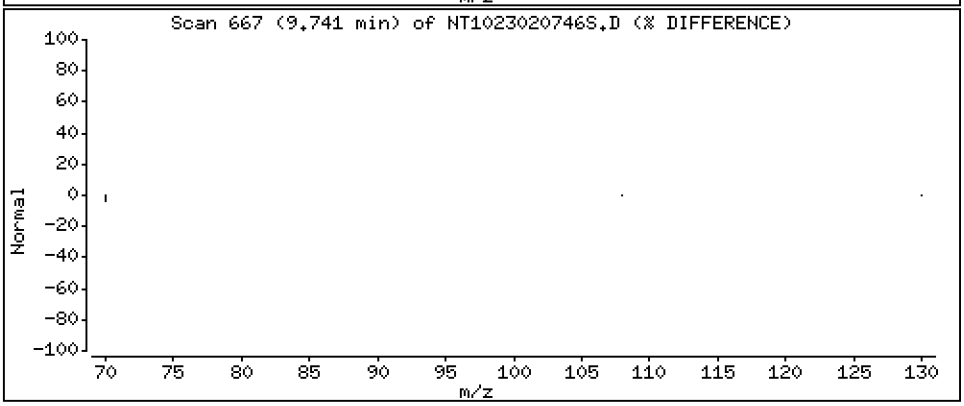












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Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

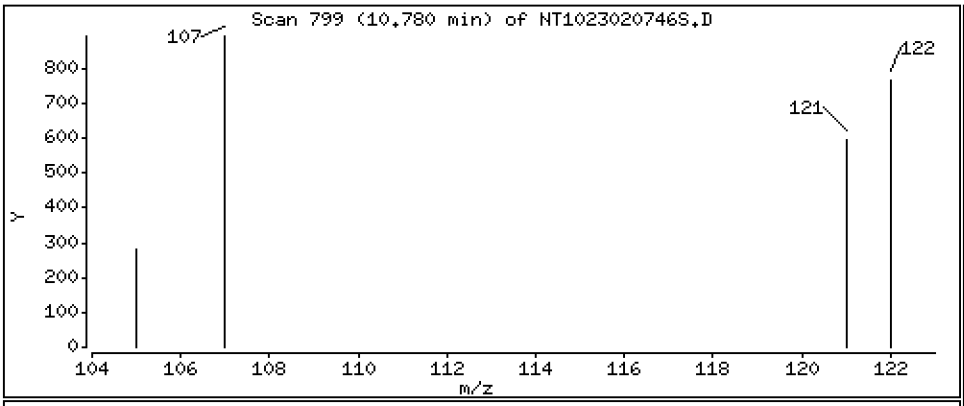
Operator: DSD

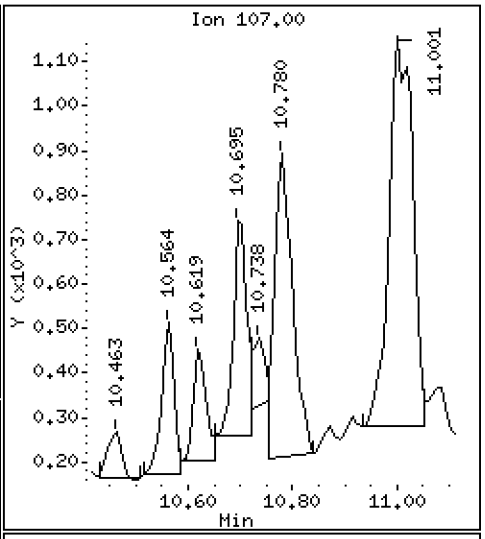
Column phase: ZB-5msi

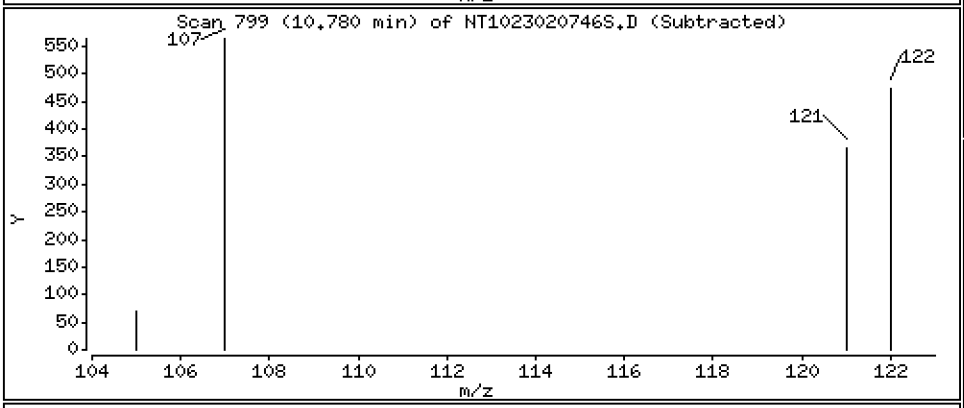
Column diameter: 0.25

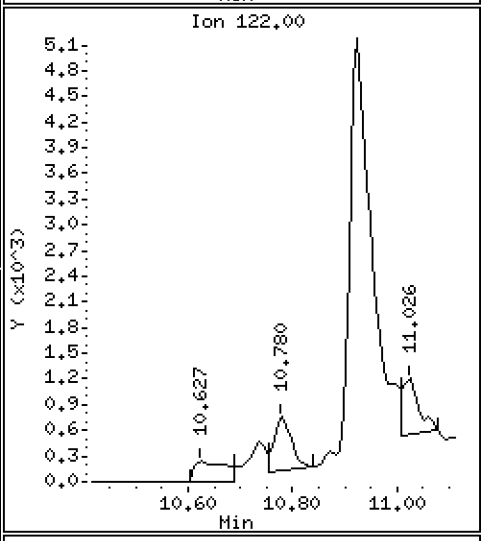
22 2,4-Dimethylphenol

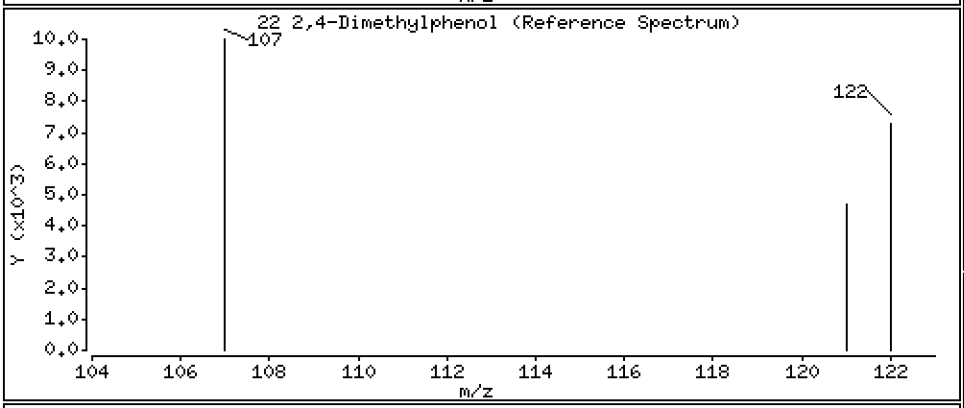
Concentration: 0.05462 ug/L

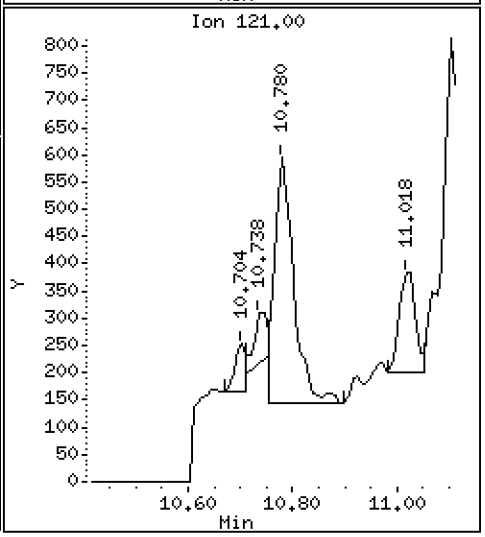


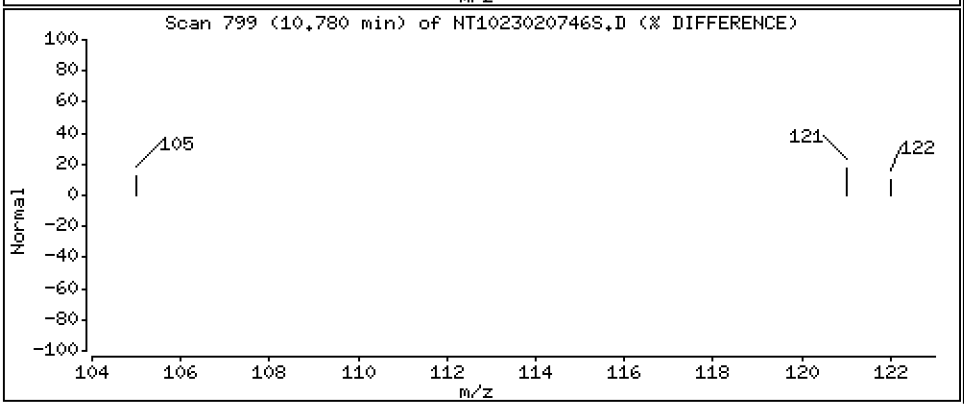












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Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

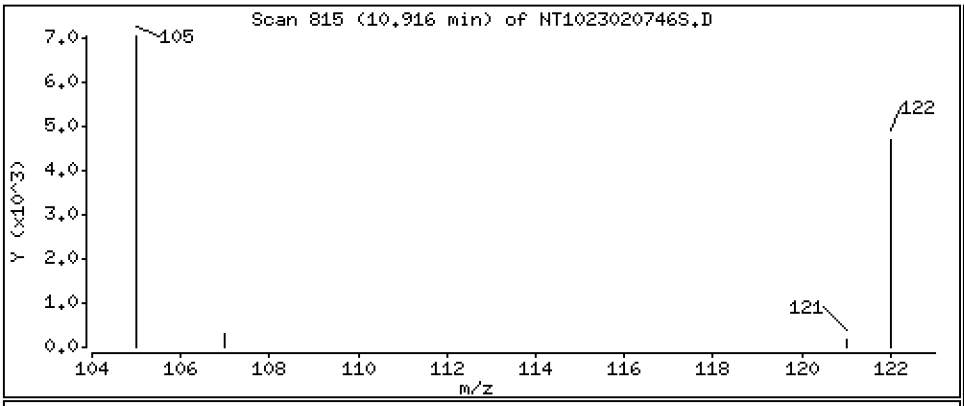
Operator: DSD

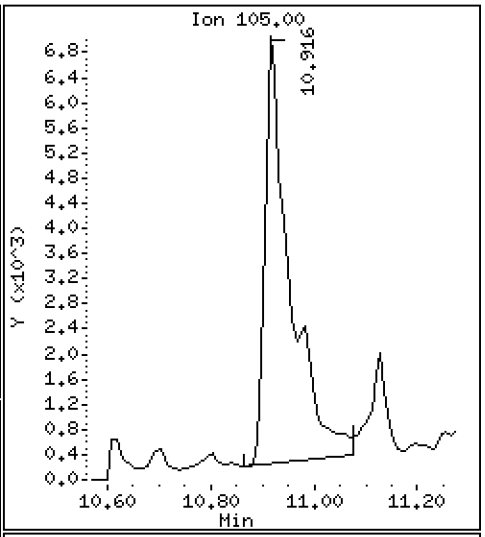
Column phase: ZB-5msi

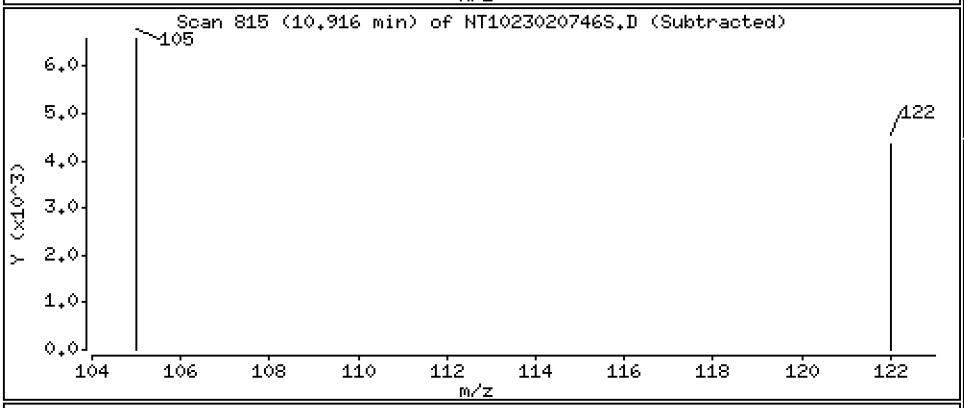
Column diameter: 0.25

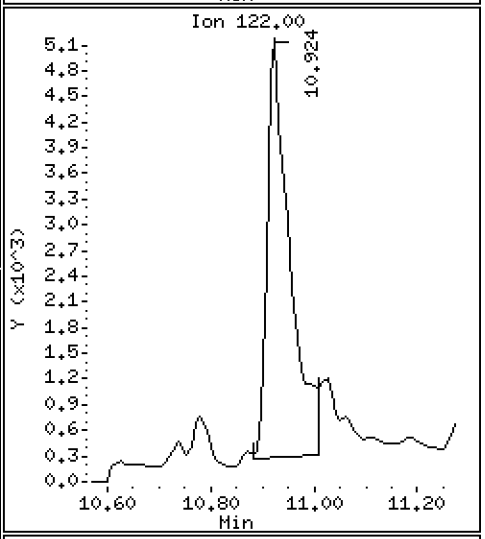
24 Benzoic acid

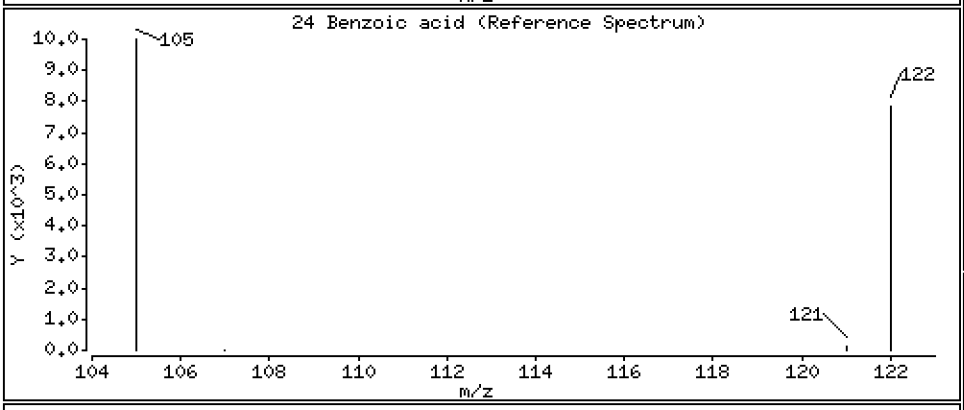
Concentration: 1.635 ug/L

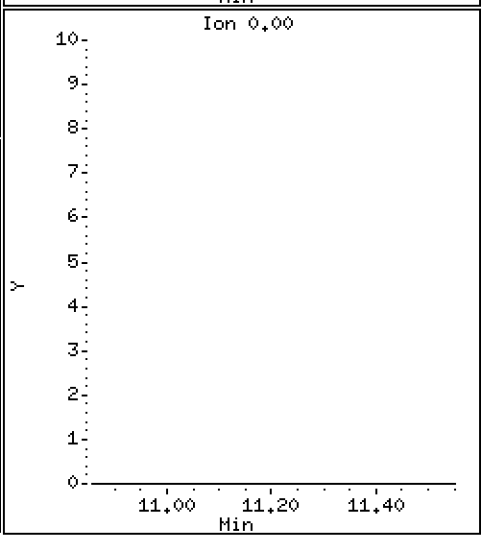


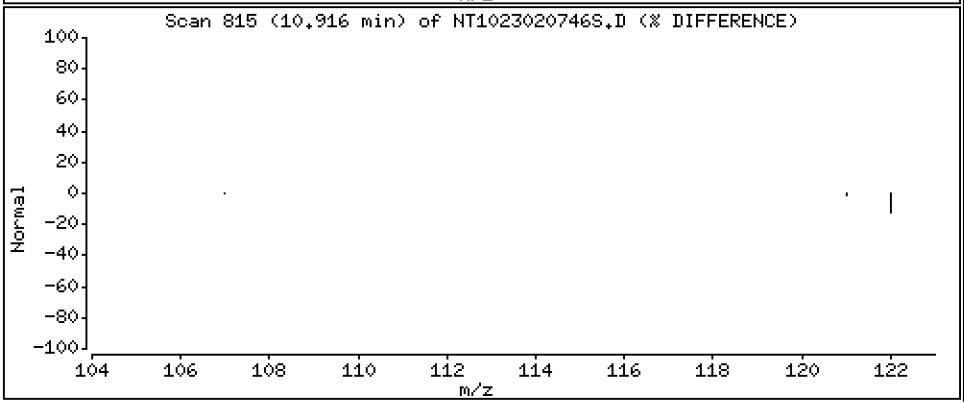












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Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

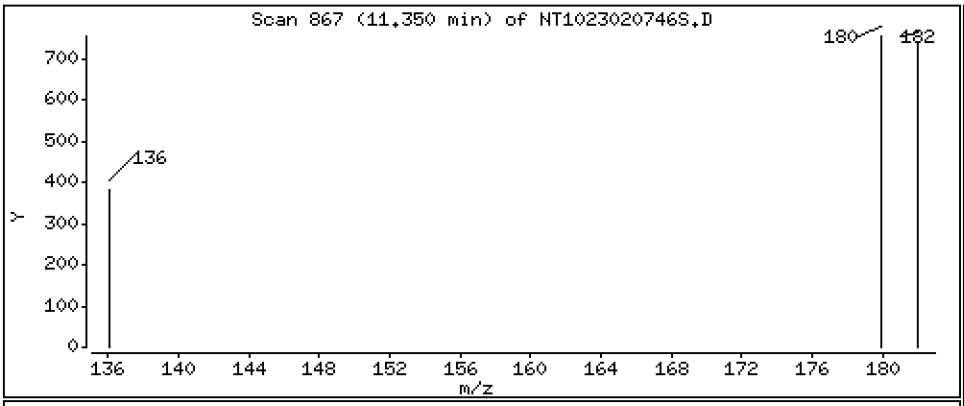
Operator: DSD

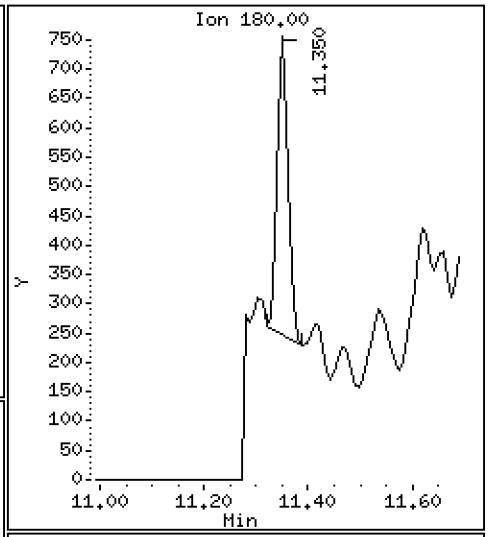
Column phase: ZB-5msi

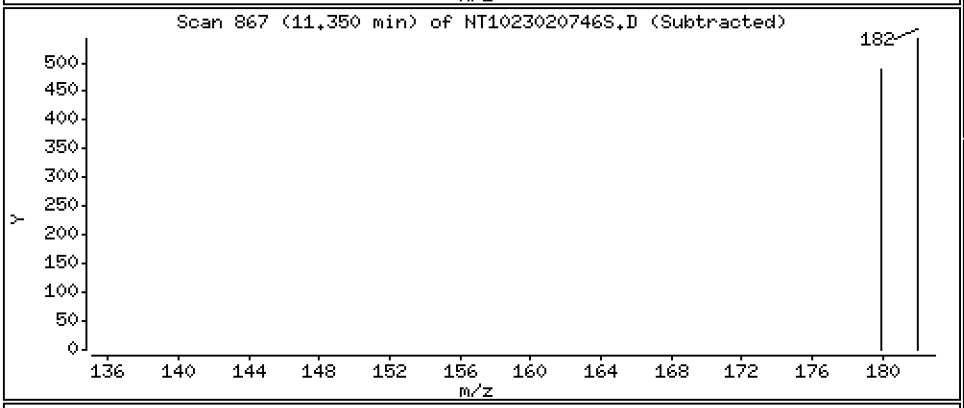
Column diameter: 0.25

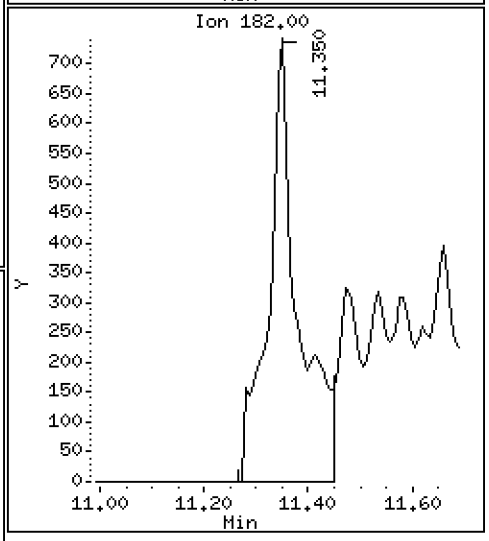
26 1,2,4-Trichlorobenzene

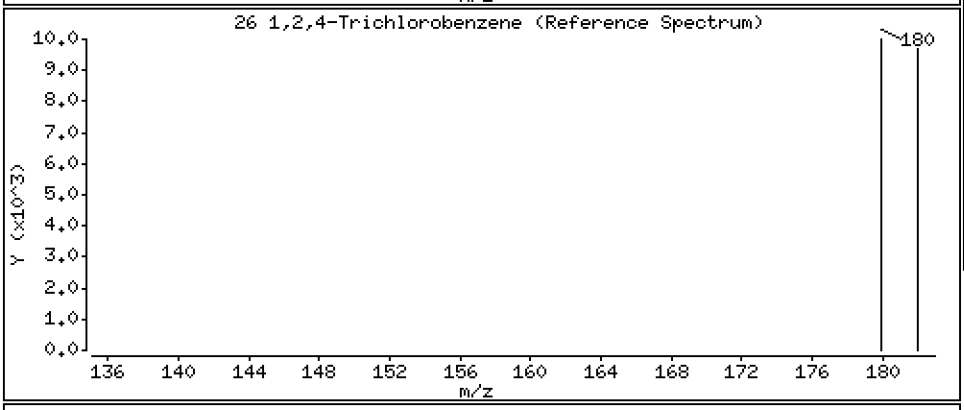
Concentration: 0.02687 ug/L

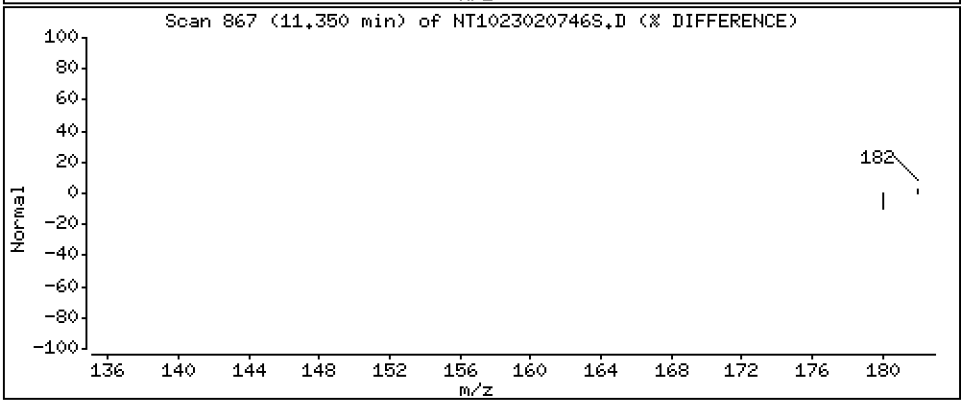












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Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

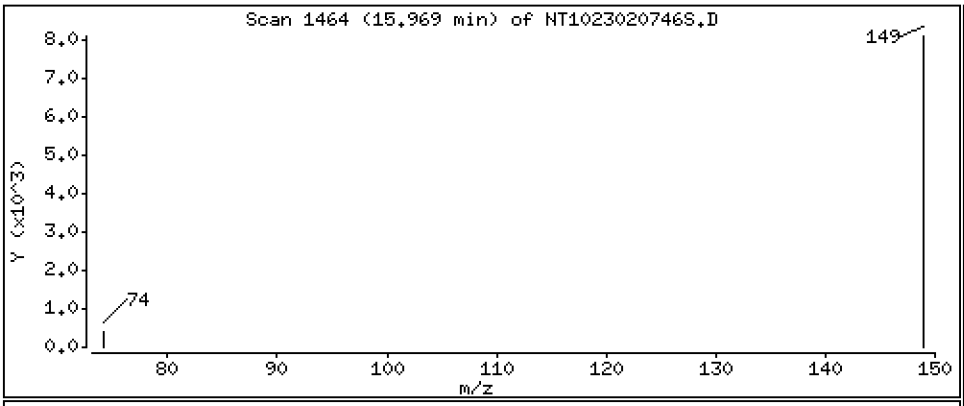
Operator: DSD

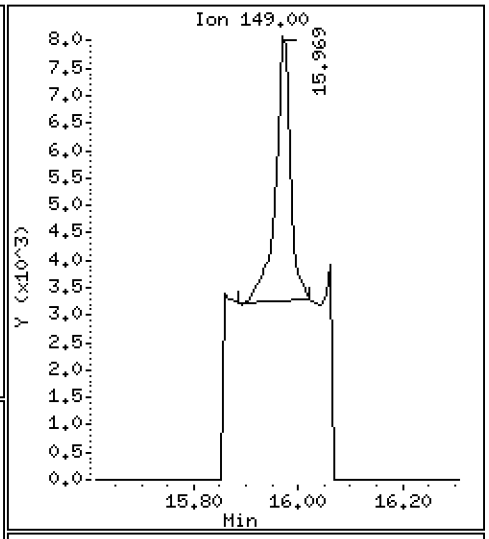
Column phase: ZB-5msi

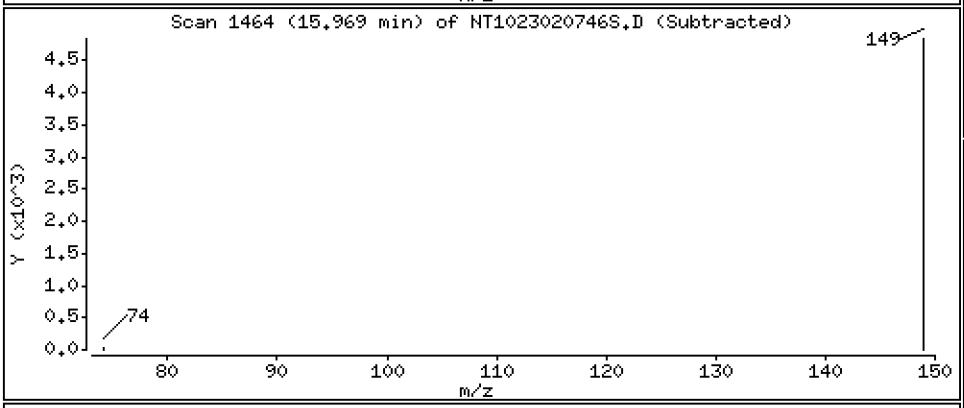
Column diameter: 0.25

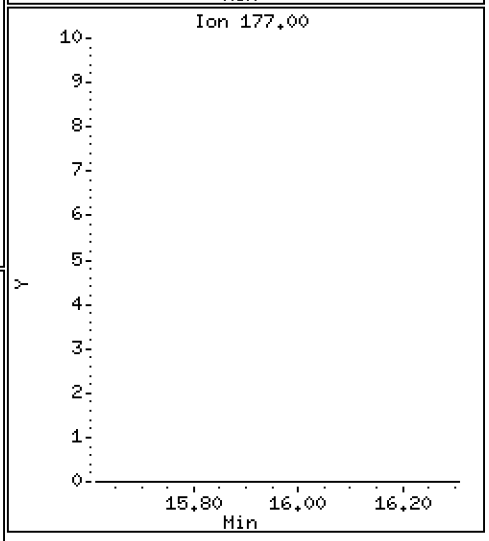
50 Diethylphthalate

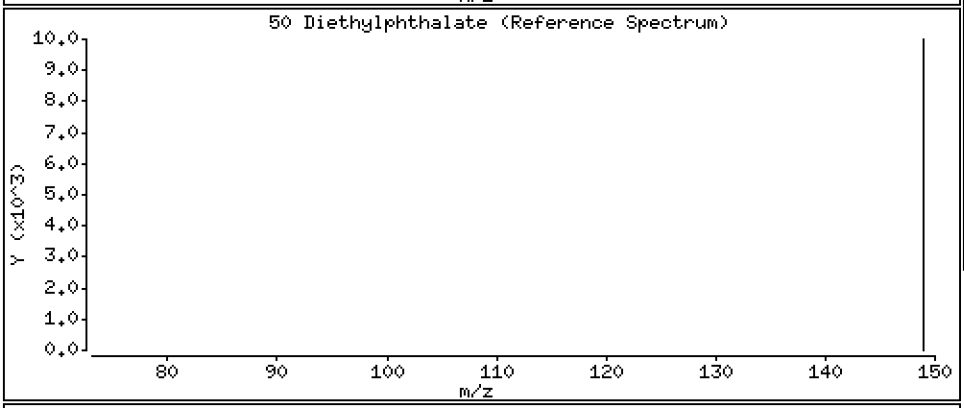
Concentration: 0.1712 ug/L

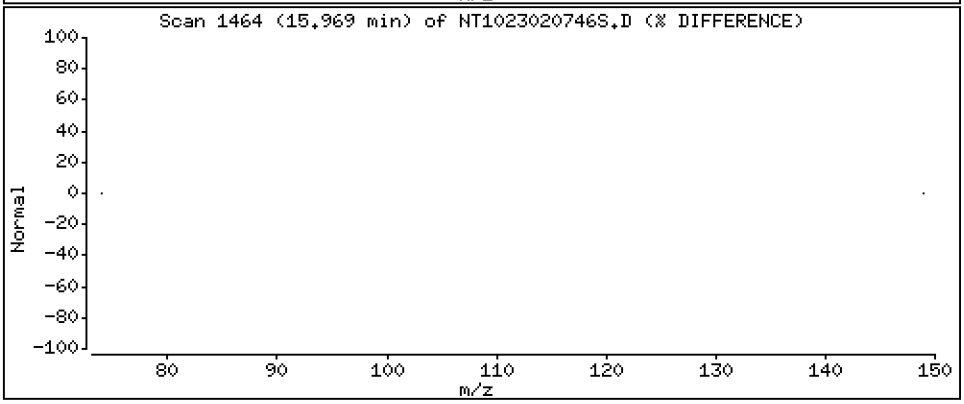












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Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

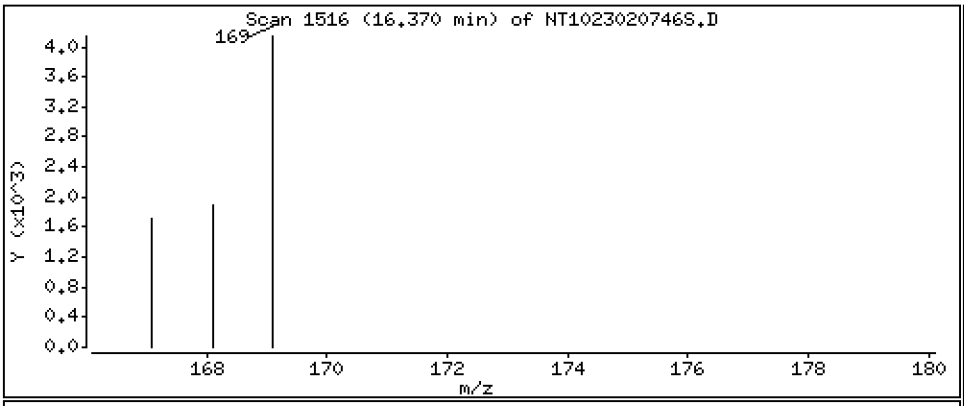
Operator: DSD

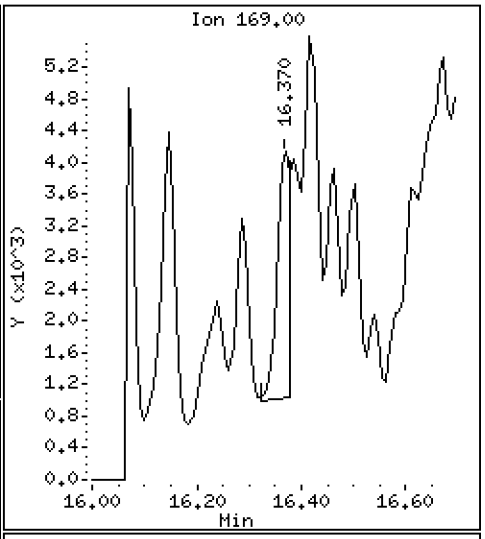
Column phase: ZB-5msi

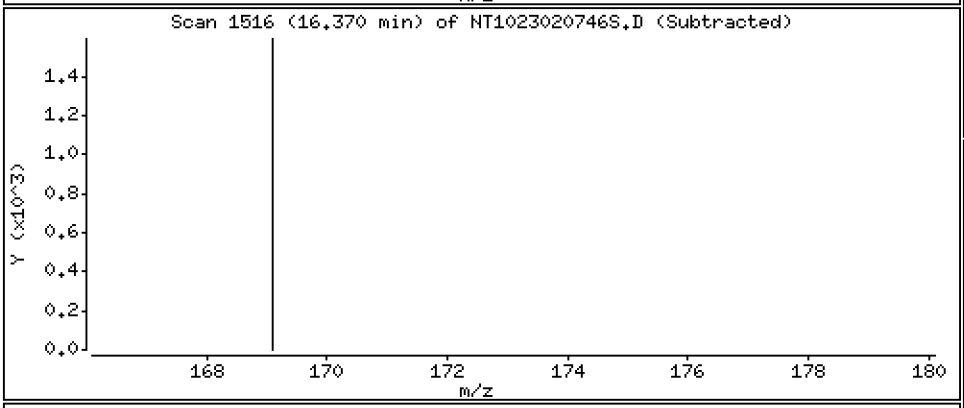
Column diameter: 0.25

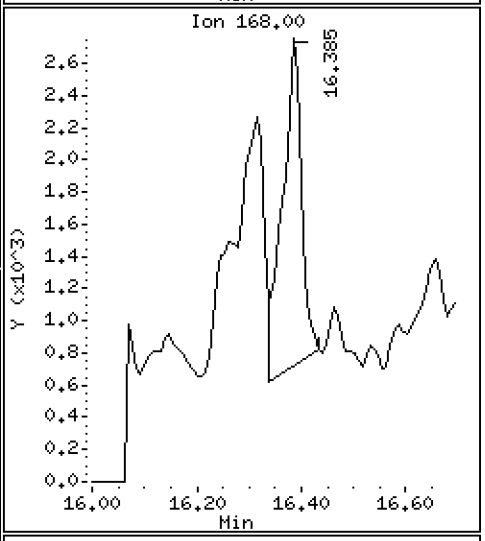
54 N-Nitrosodiphenylamine

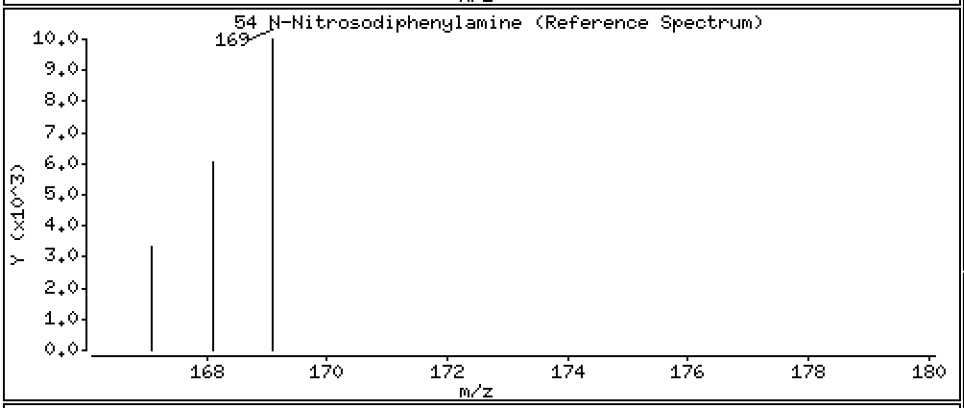
Concentration: 0.1126 ug/L

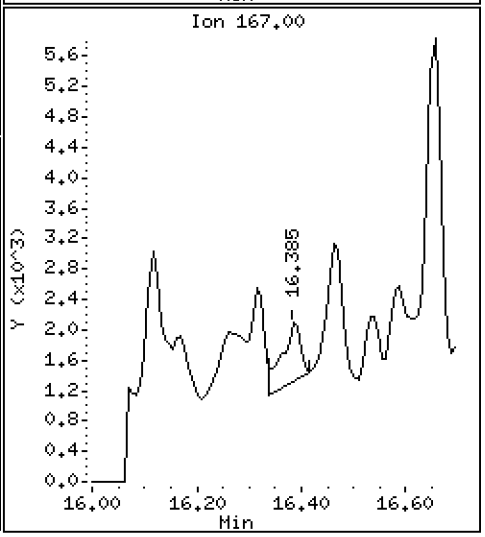


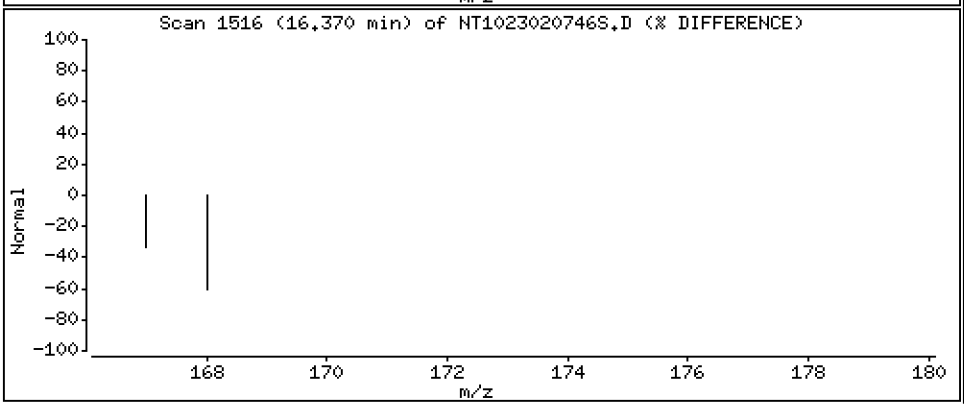












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020746S.D

Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

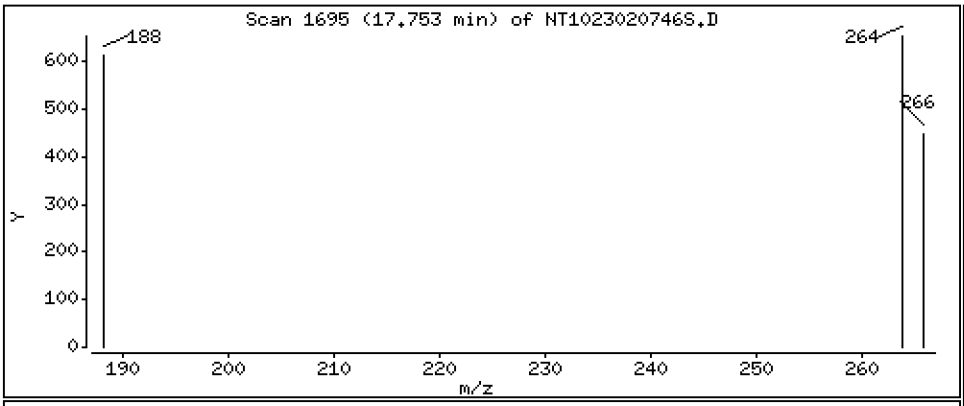
Operator: DSD

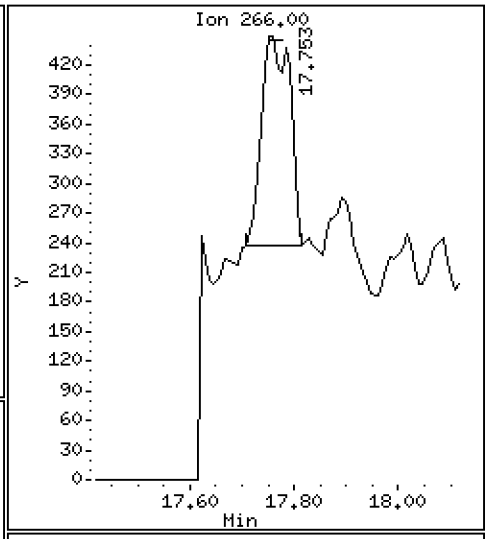
Column phase: ZB-5msi

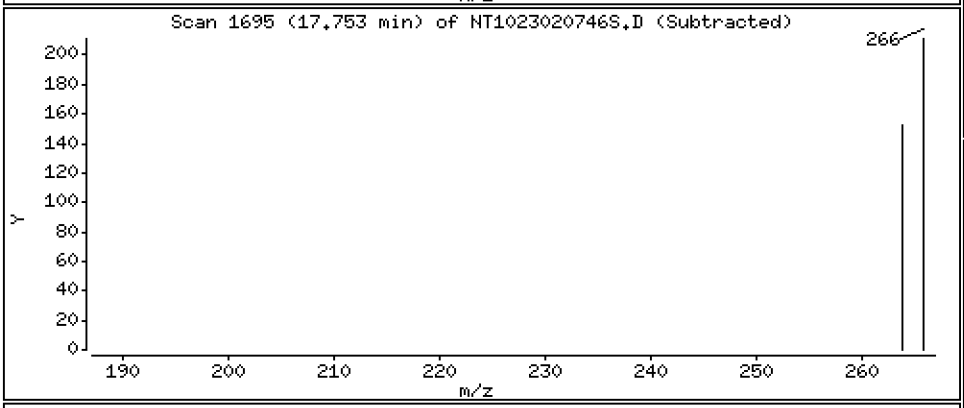
Column diameter: 0.25

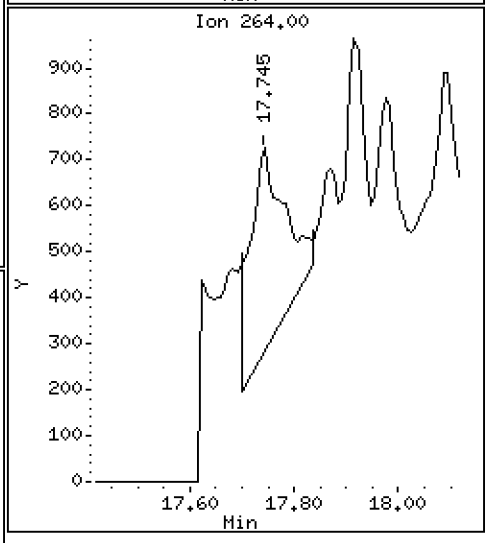
58 Pentachlorophenol

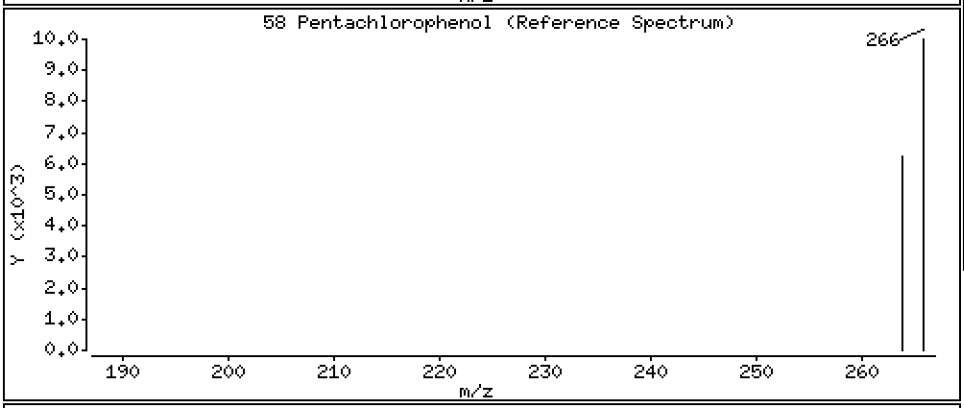
Concentration: 0.1078 ug/L

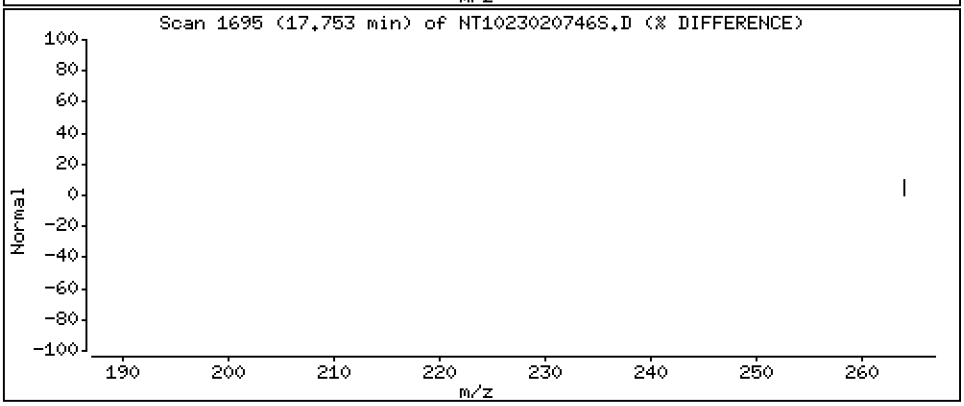












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020746S.D

Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

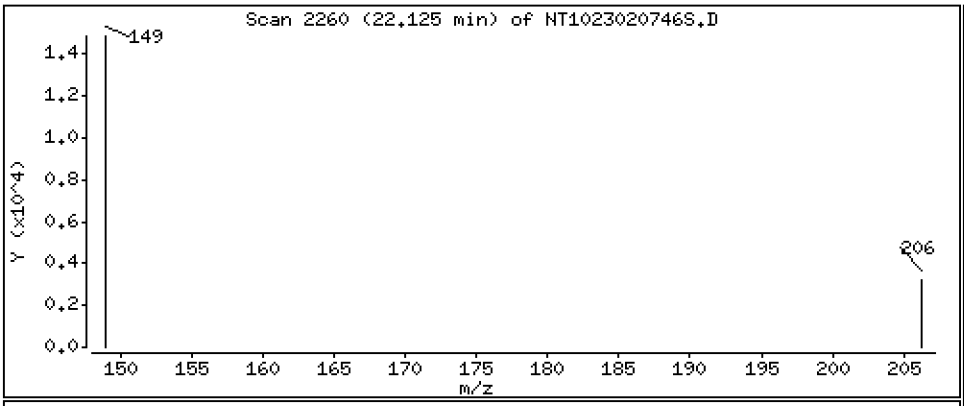
Operator: DSD

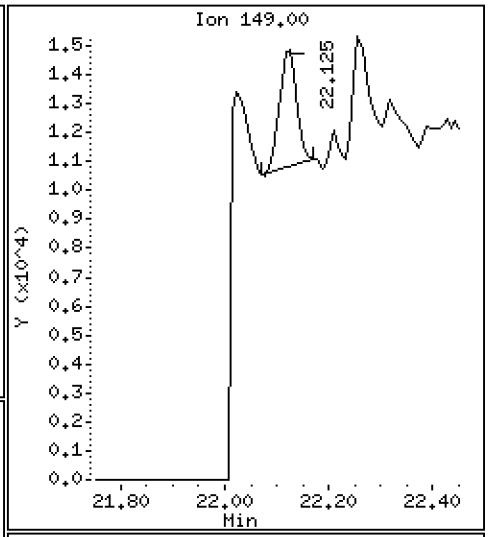
Column phase: ZB-5msi

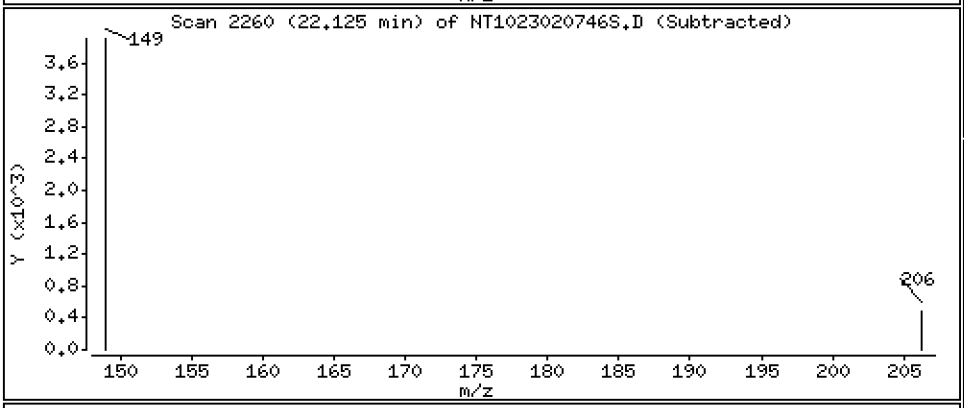
Column diameter: 0.25

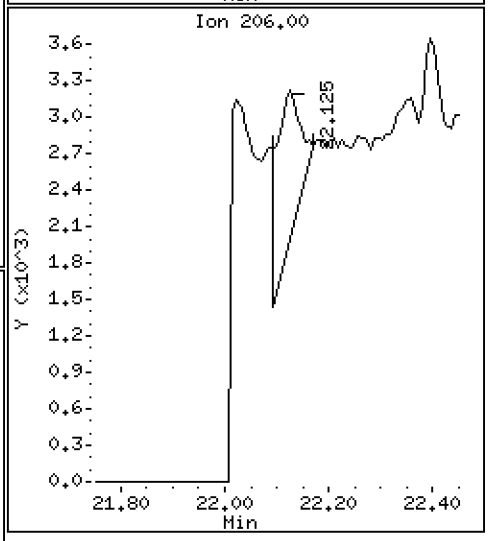
67 Butylbenzylphthalate

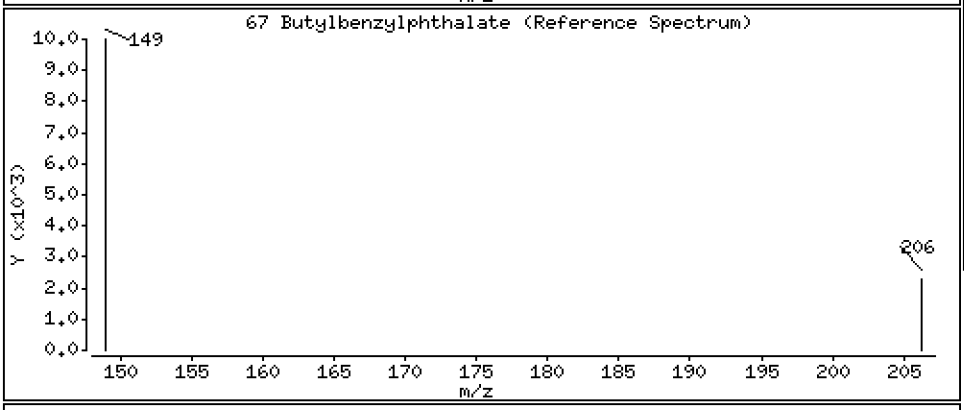
Concentration: 0.2621 ug/L

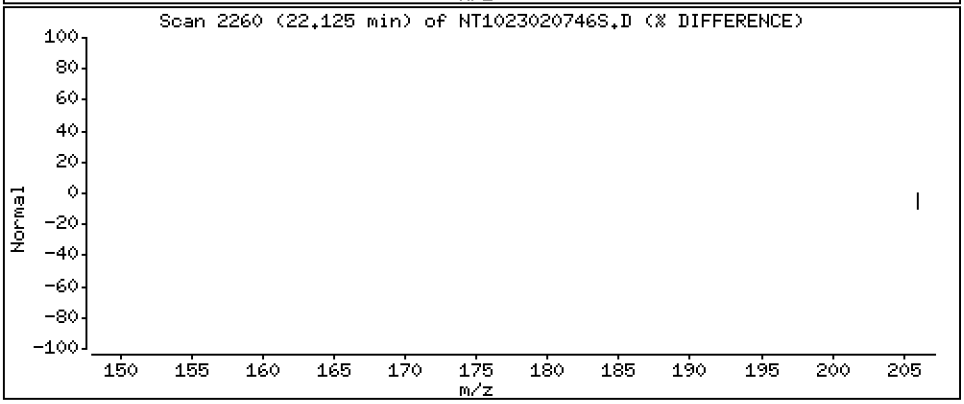












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020746S.D

Date : 08-FEB-2023 16:20

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-06

Volume Injected (uL): 1.0

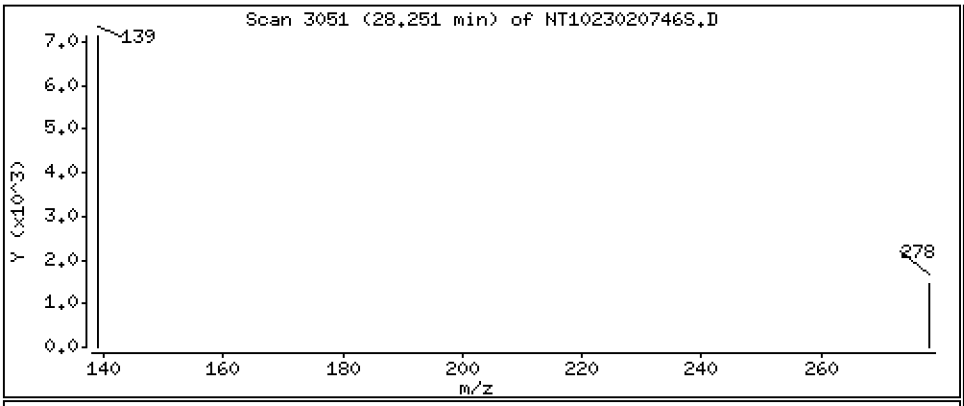
Operator: DSD

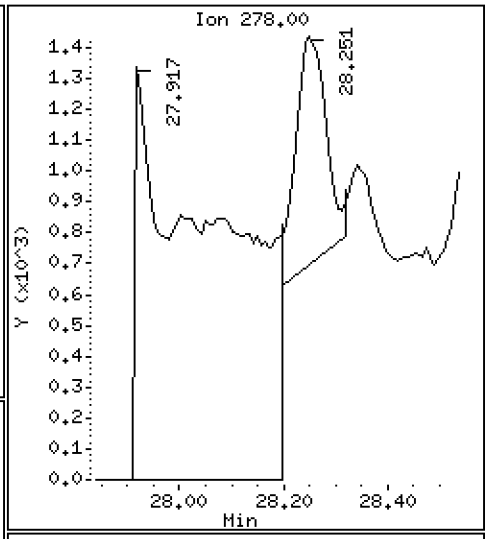
Column phase: ZB-5msi

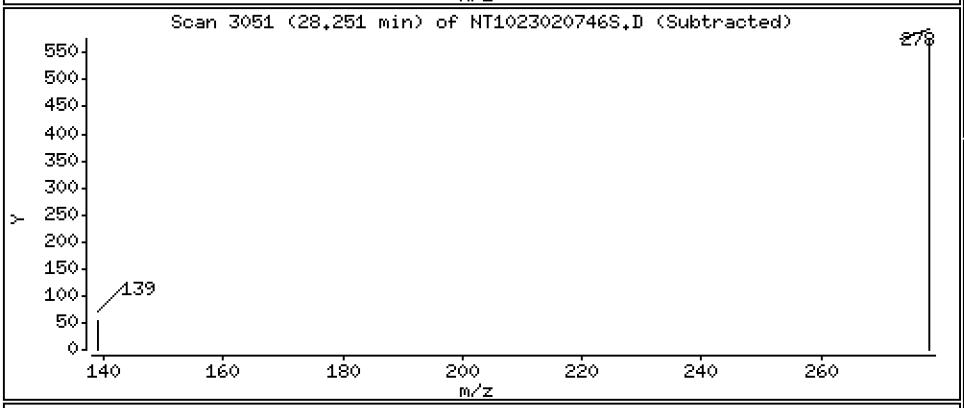
Column diameter: 0.25

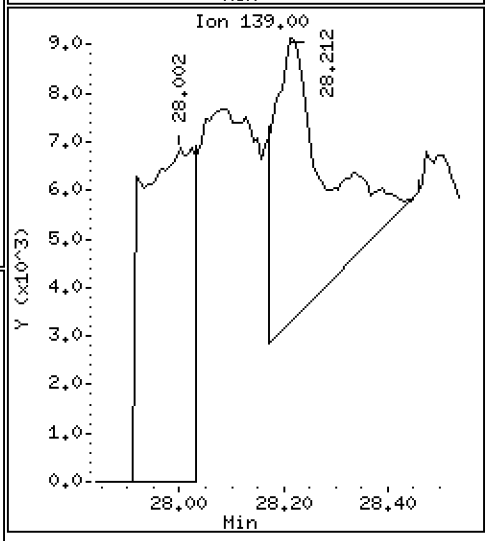
79 Dibenzo(a,h)anthracene

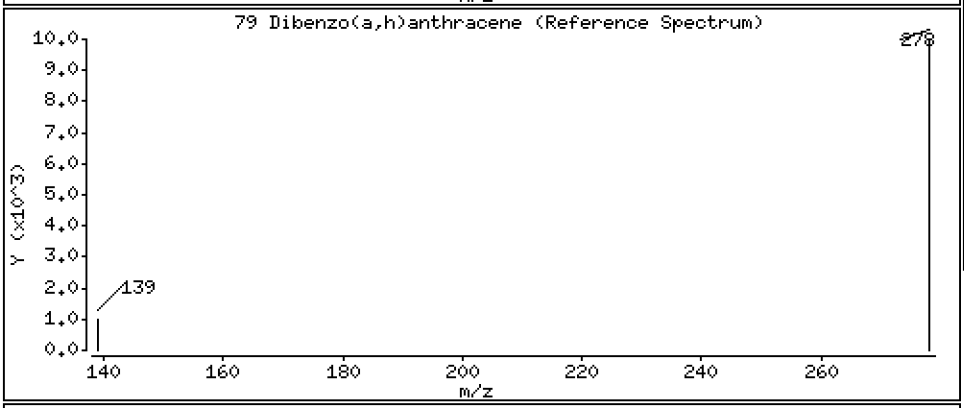
Concentration: 0.05925 ug/L

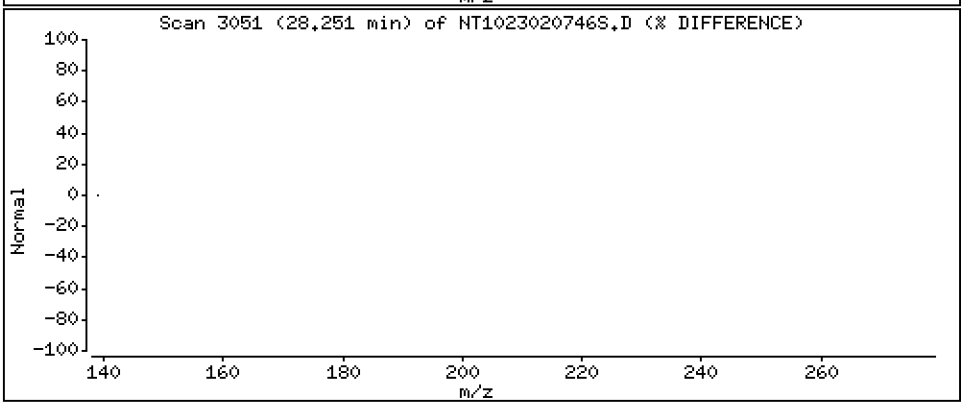












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020746S.D
Lab Smp Id: 22L0459-06
Inj Date : 08-FEB-2023 16:20 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : 22L0459-06
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.793	6.777	(0.757)	163798	6.01936	6.019(R)
3	Phenol	94	8.377	8.369	(0.934)	7541	0.18378	0.1838
7	1,3-Dichlorobenzene	146	8.910	8.902	(0.993)	1805	0.04885	0.04885
* 8	1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	89484	4.00000	
9	1,4-Dichlorobenzene	146	9.003	8.996	(1.003)	2841	0.07864	0.07864
11	Benzyl alcohol	79	9.244	9.236	(1.030)	12401	0.61952	0.6195
12	1,2-Dichlorobenzene	146	9.353	9.353	(1.042)	1049	0.02975	0.02975
13	2-Methylphenol	108	9.477	9.461	(1.056)	989	0.03531	0.03531
15	4-Methylphenol	108	9.741	9.733	(1.086)	8627	0.30195	0.3019
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.780	10.763	(0.943)	1670	0.05462	0.05462
24	Benzoic acid	105	10.915	10.924	(0.955)	23296	1.63518	1.635(M)
26	1,2,4-Trichlorobenzene	180	11.350	11.342	(0.993)	770	0.02687	0.02687(M)
* 27	Naphthalene-d8	136	11.427	11.427	(1.000)	348042	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	Compound Not Detected.					
* 42	Acenaphthene-d10	162	15.017	15.009	(1.000)	160019	4.00000	
50	Diethylphthalate	149	15.968	15.960	(1.063)	9615	0.17118	0.1712(M)
54	N-Nitrosodiphenylamine	169	16.369	16.346	(0.907)	5604	0.11265	0.1126(M)
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.752	17.768	(0.984)	794	0.10776	0.1078(M)
*	59 Phenanthrene-d10	188	18.038	18.023	(1.000)	301023	4.00000	
$	66 Terphenyl-d14	244	21.203	21.164	(0.918)	260197	5.09360	5.094(R)
	67 Butylbenzylphthalate	149	22.124	22.101	(0.957)	9051	0.26212	0.2621(M)
*	69 Chrysene-d12	240	23.108	23.069	(1.000)	230142	4.00000	
*	77 Perylene-d12	264	25.686	25.631	(1.000)	184992	4.00000	(H)
	79 Dibenzo(a,h)anthracene	278	28.250	28.188	(1.104)	3072	0.05925	0.05925
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020746S.D
Lab Smp Id: 22L0459-06
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
8 1,4-Dichlorobenze	123596	61798	247192	89484	-27.60	
27 Naphthalene-d8	454738	227369	909476	348042	-23.46	
42 Acenaphthene-d10	223117	111559	446234	160019	-28.28	
59 Phenanthrene-d10	408770	204385	817540	301023	-26.36	
69 Chrysene-d12	339328	169664	678656	230142	-32.18	
77 Perylene-d12	382671	191336	765342	184992	-51.66	<-

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.02	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.04	0.09
69 Chrysene-d12	23.07	22.57	23.57	23.11	0.17
77 Perylene-d12	25.63	25.13	26.13	25.69	0.21

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020746S.D

Lab ID: 22L0459-06
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 16:20

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

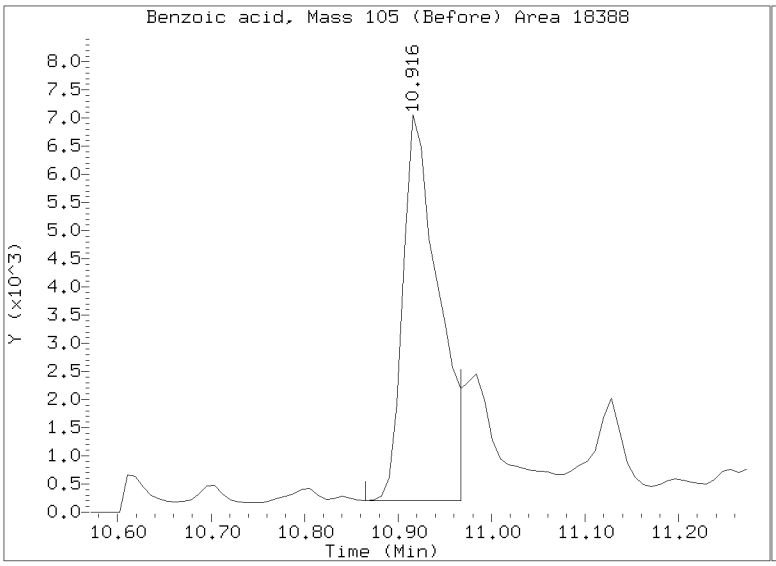
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

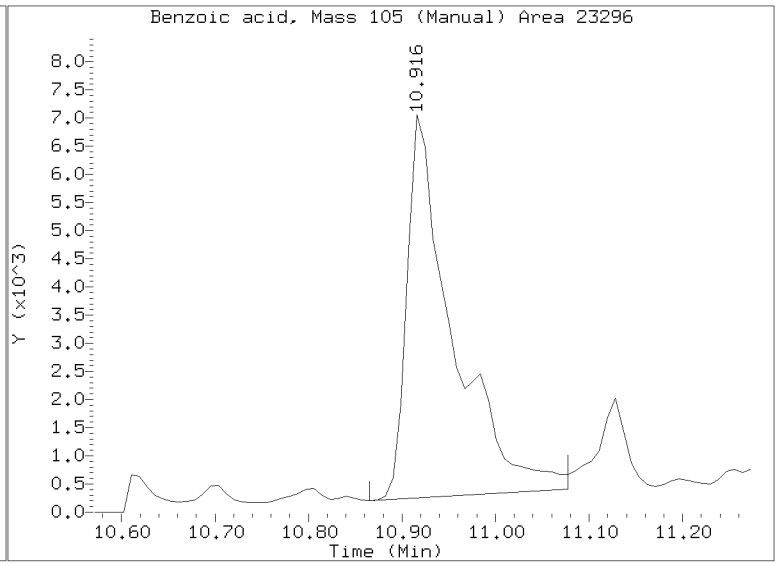
Exception: 1,2,4-Trichlorobenzene 0.0010

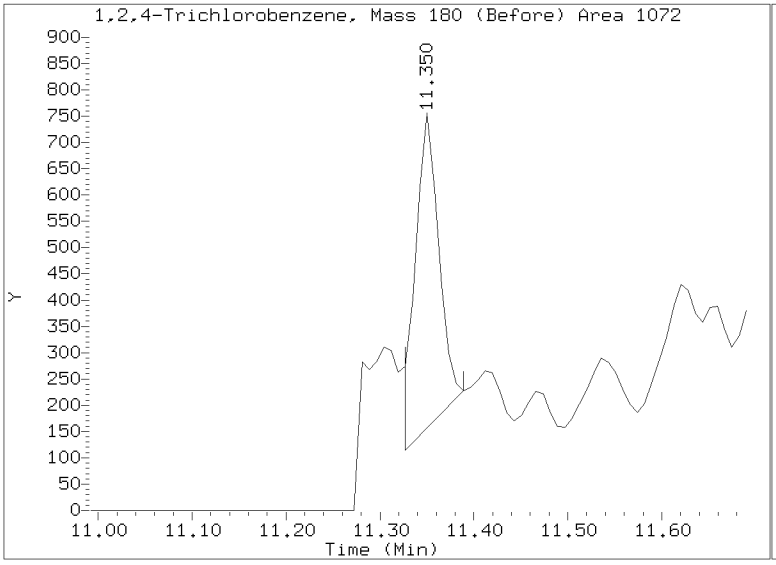
* Only compounds listed in the work order have been verified by the analyst *

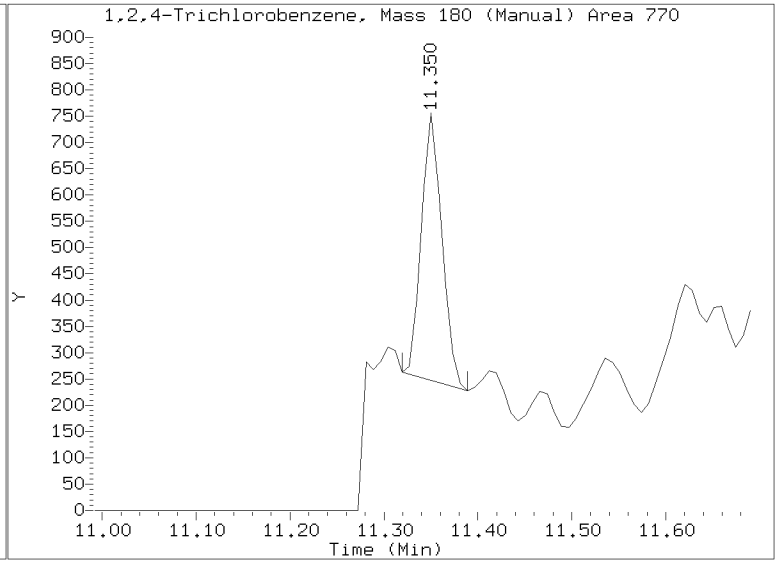
Quant Ion Manual Peak Adjustment Report

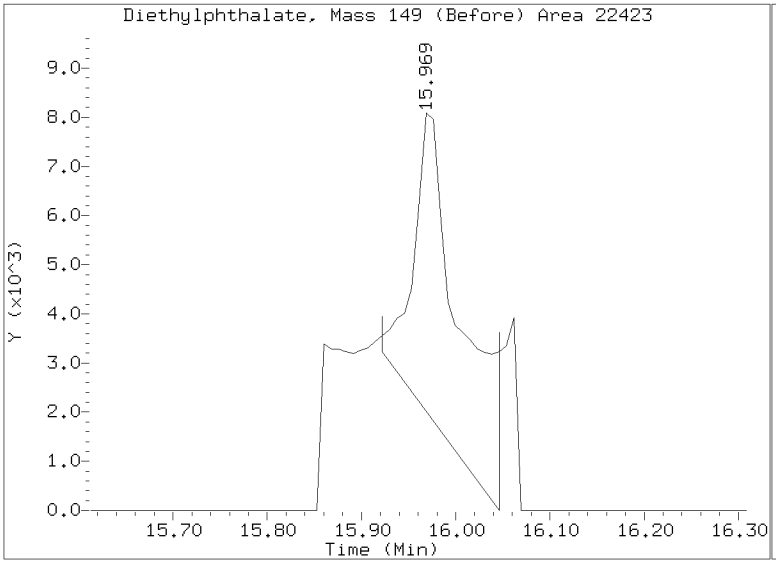
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020746S.D
Injection Date: 08-FEB-2023 16:20
Lab ID:22L0459-06 Client ID:
Report Date: 02/09/2023 15:00

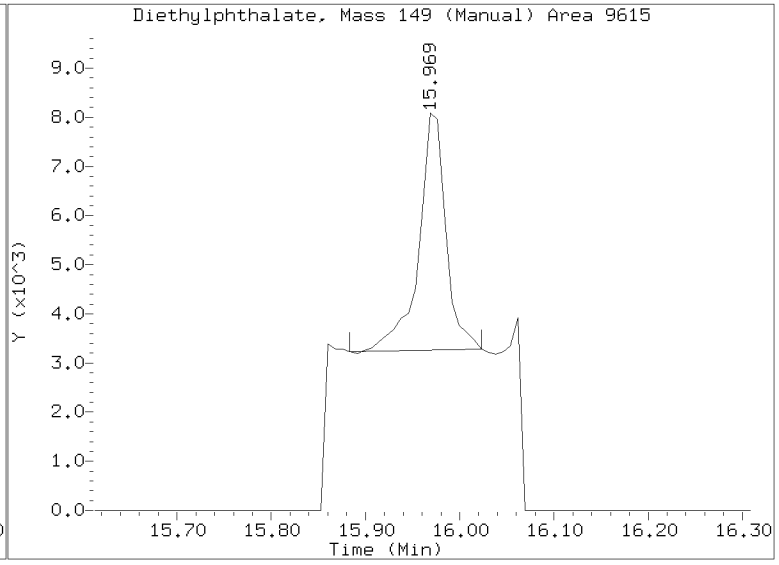












Quant Ion Manual Peak Adjustment Report

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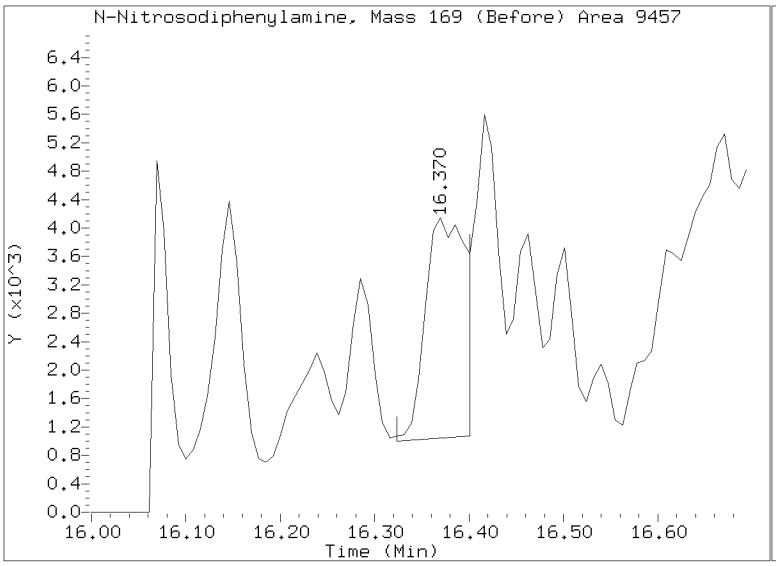
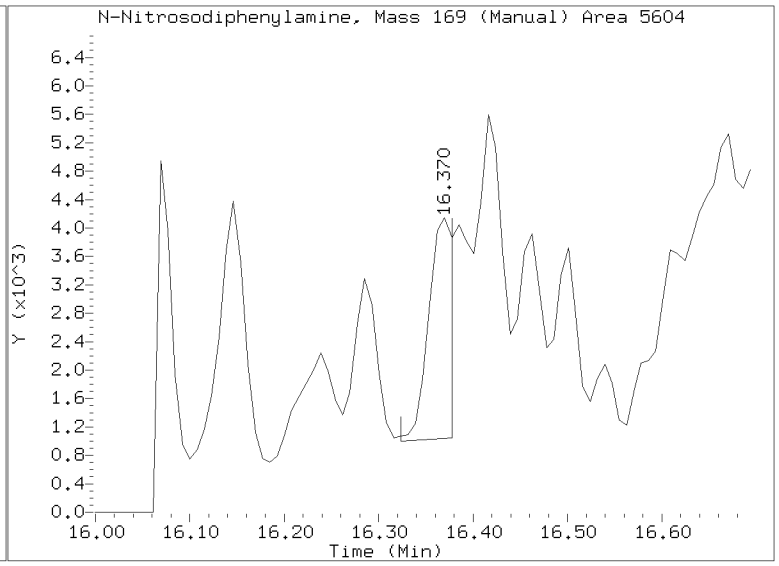
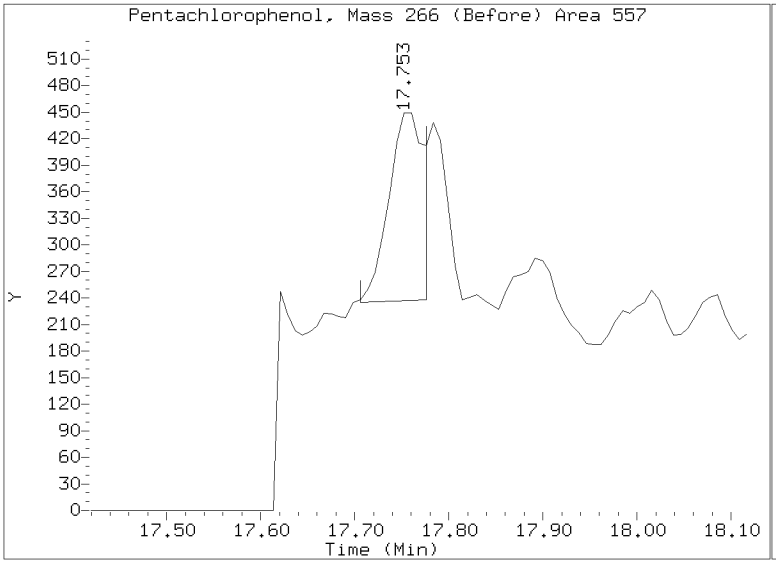
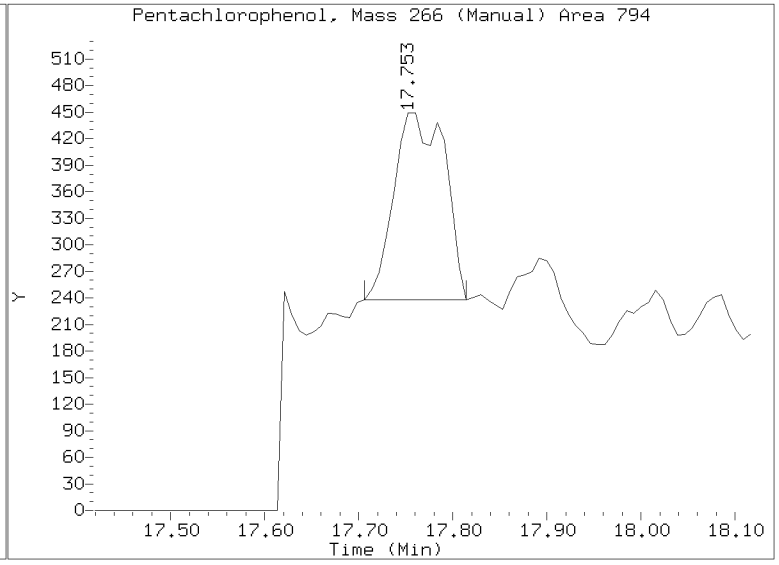
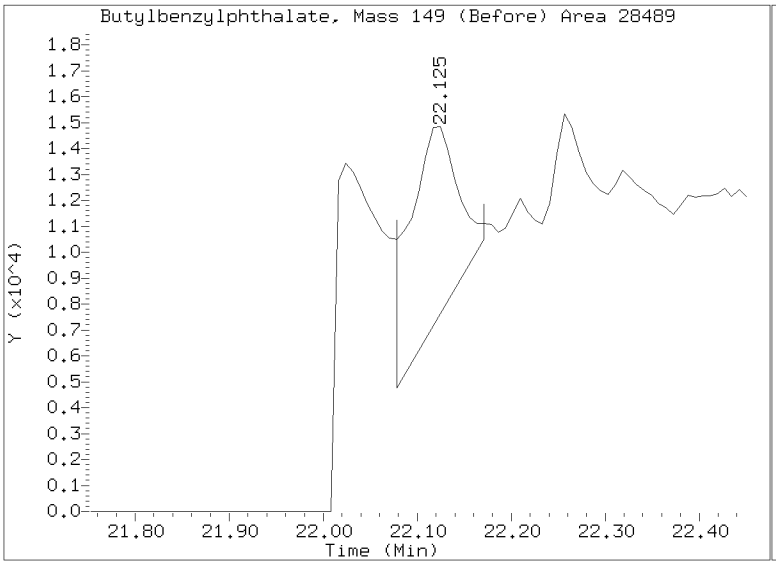
Injection Date: 08-FEB-2023 16:20
Lab ID:22L0459-06 Client ID:
Report Date: 02/09/2023 15:00

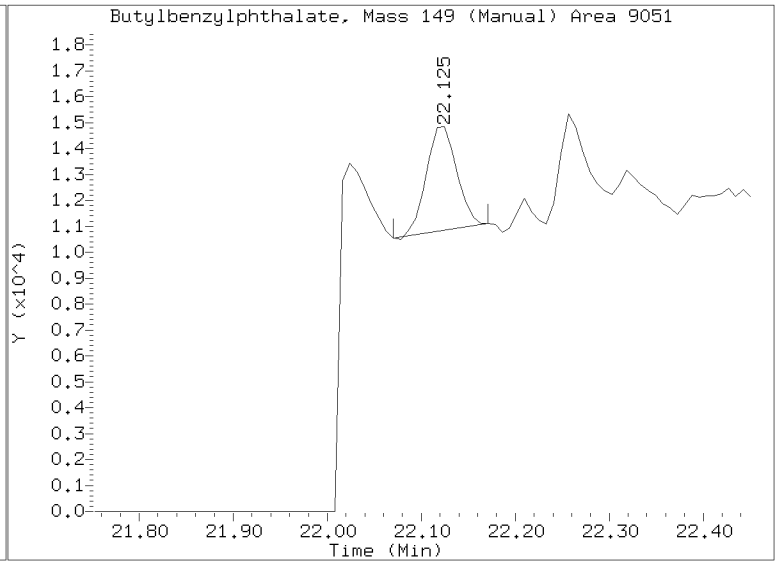












Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1091B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-07 A	SDG:	22L0459
Sampled:	12/16/22 12:38	Prepared:	01/05/23 16:13	File ID:	NT1023020747S.D
% Solids:	61.13	Preparation:	EPA 3546 (Microwave)	Analyzed:	02/08/23 16:58
Batch:	BLA0064	Sequence:	SLB0106	Initial/Final:	16.38 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GB00019

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	5.2		0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	2.3	J	0.7	5.0
100-51-6	Benzyl Alcohol	1	77.3		2.5	20.0
65-85-0	Benzoic acid	1	195		13.4	99.9
105-67-9	2,4-Dimethylphenol	1	5.3	J	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	3.5	J	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	6.2		1.3	5.0
87-86-5	Pentachlorophenol	1	4.2	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.02	526	70.2	27 - 120	
p-Terphenyl-d14	499.35	469	93.9	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207478.D

Page 1

Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

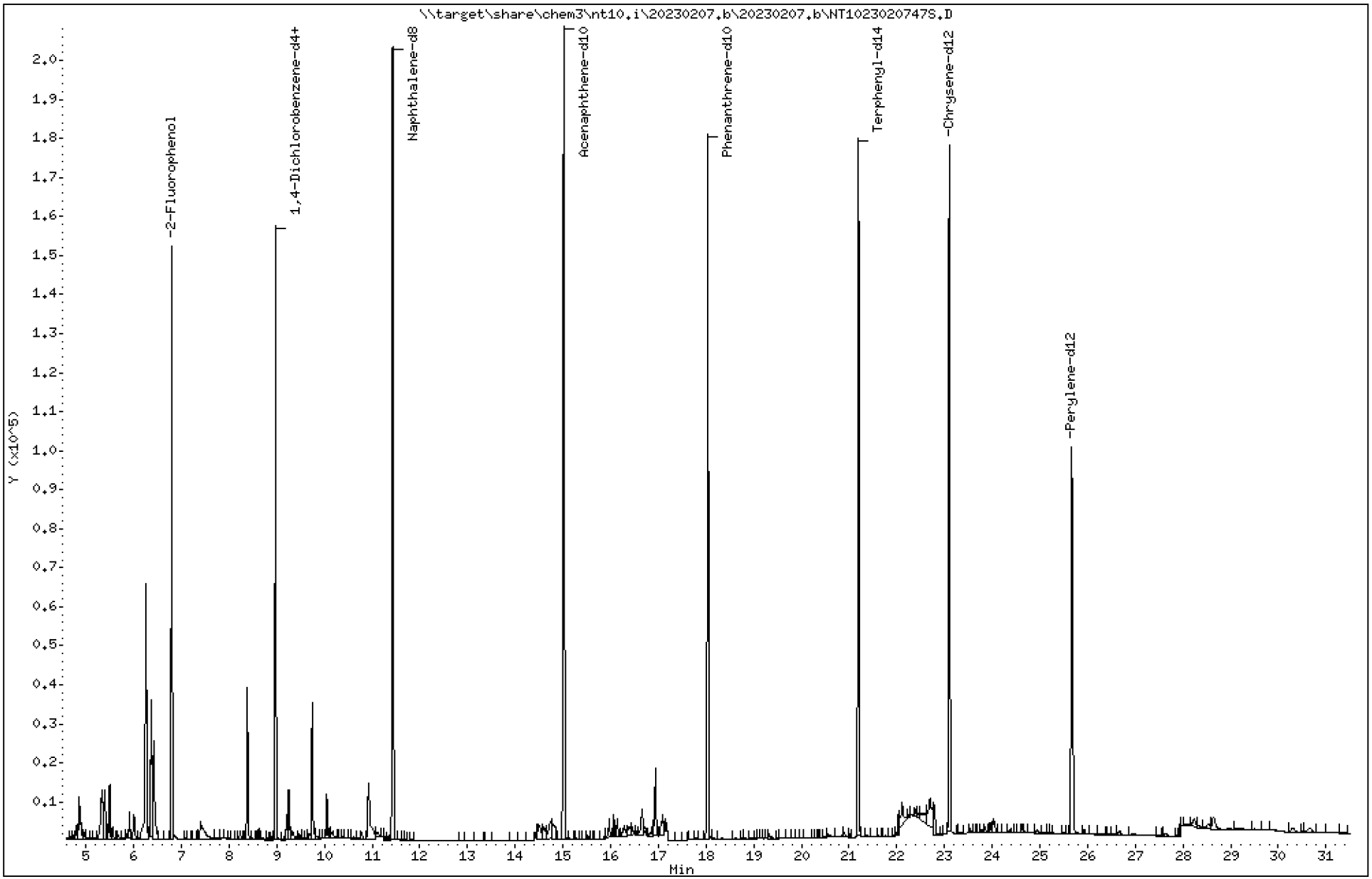
Sample Info: 22L0459-07

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

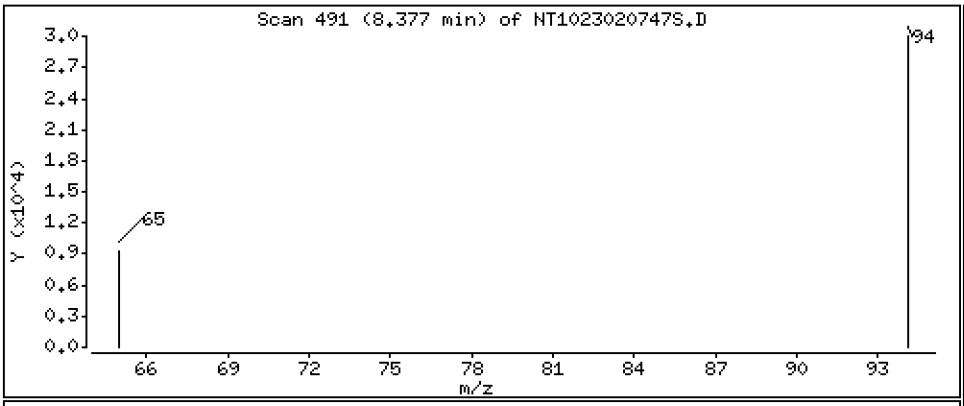
Operator: DSD

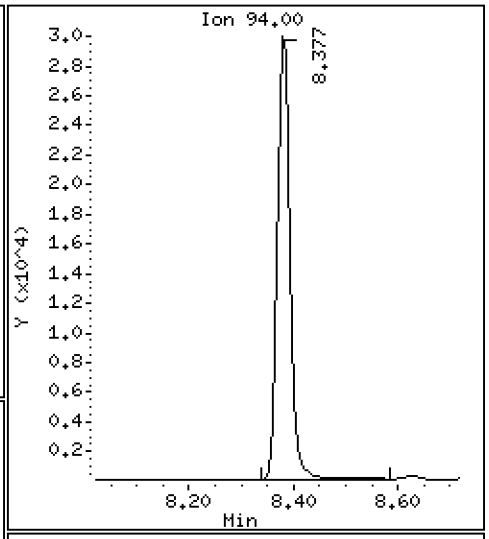
Column phase: ZB-5msi

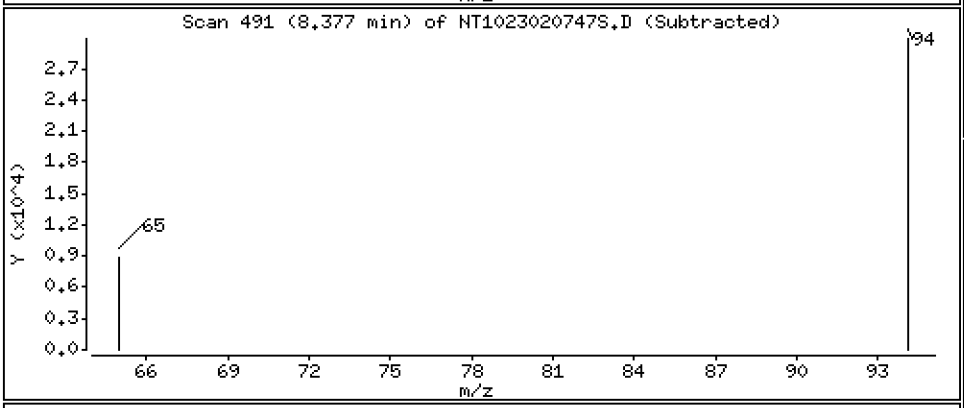
Column diameter: 0.25

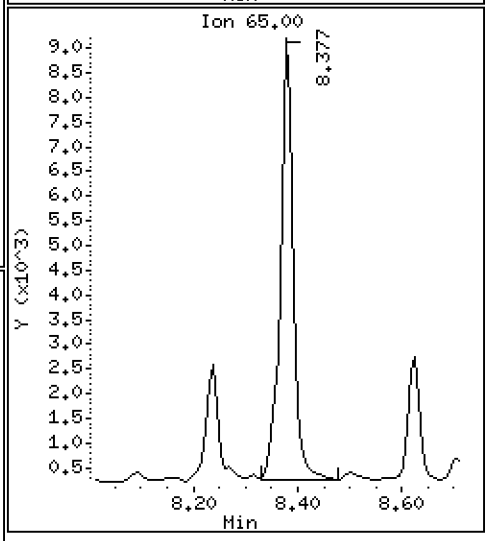
3 Phenol

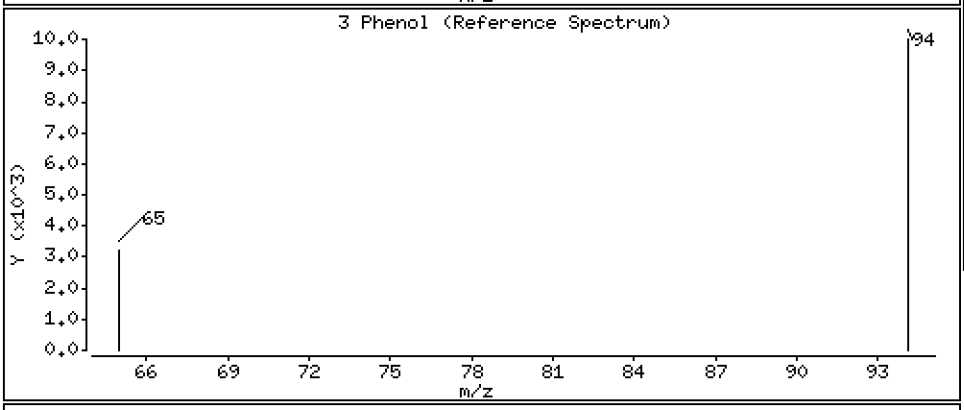
Concentration: 1.206 ug/L

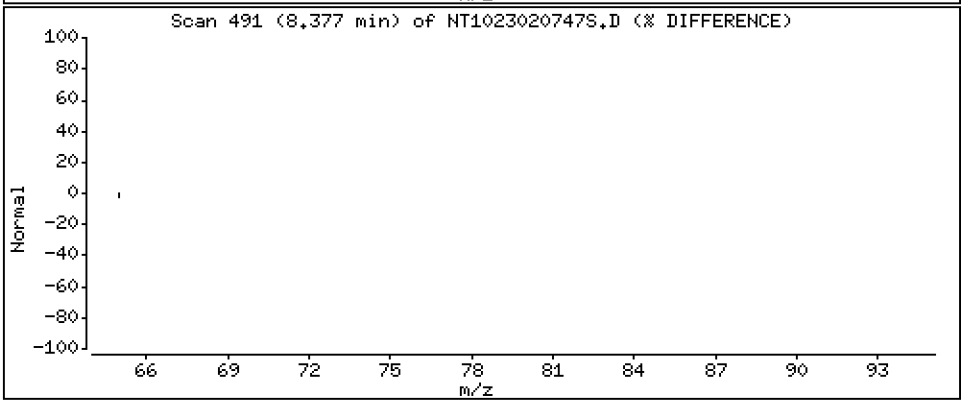












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Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

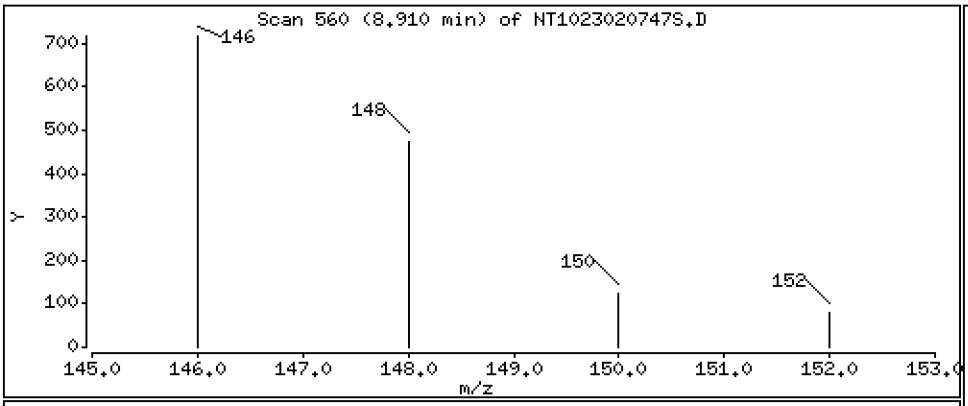
Operator: DSD

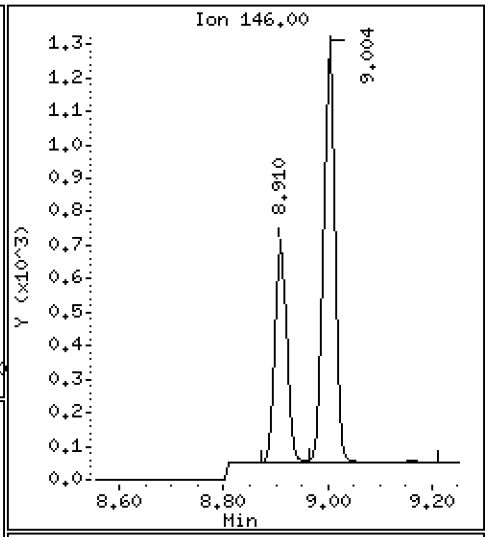
Column phase: ZB-5msi

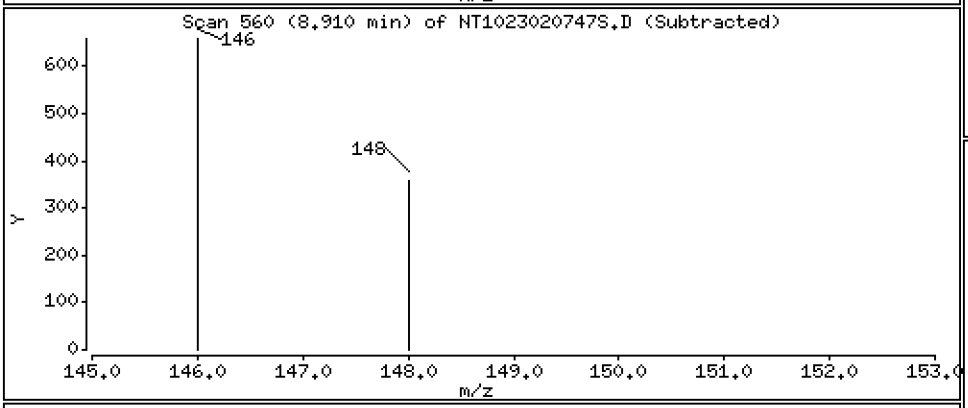
Column diameter: 0.25

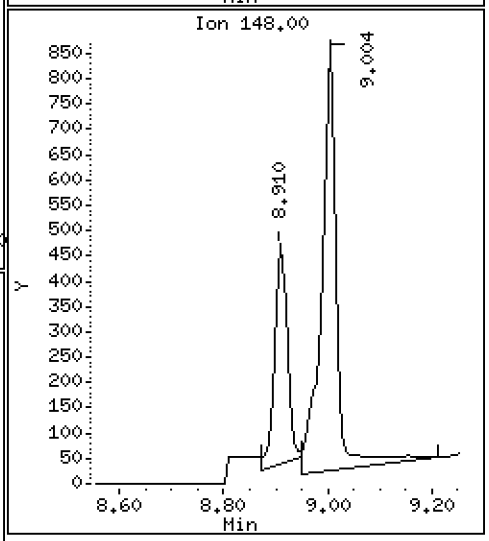
7 1,3-Dichlorobenzene

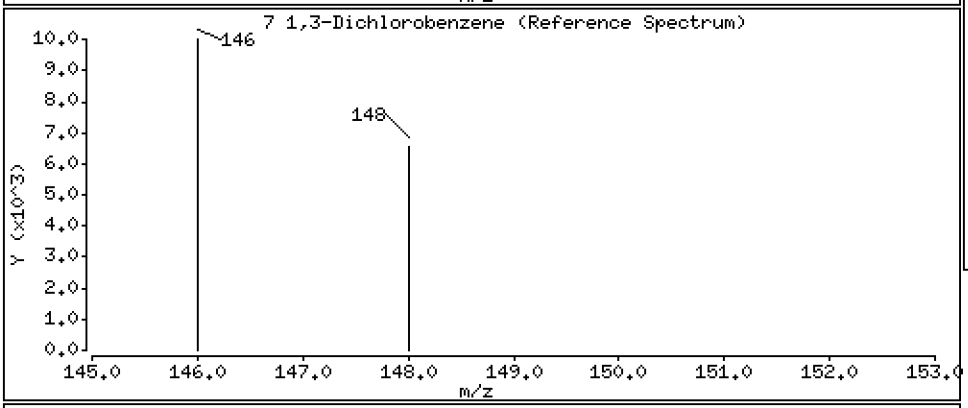
Concentration: 0.02686 ug/L

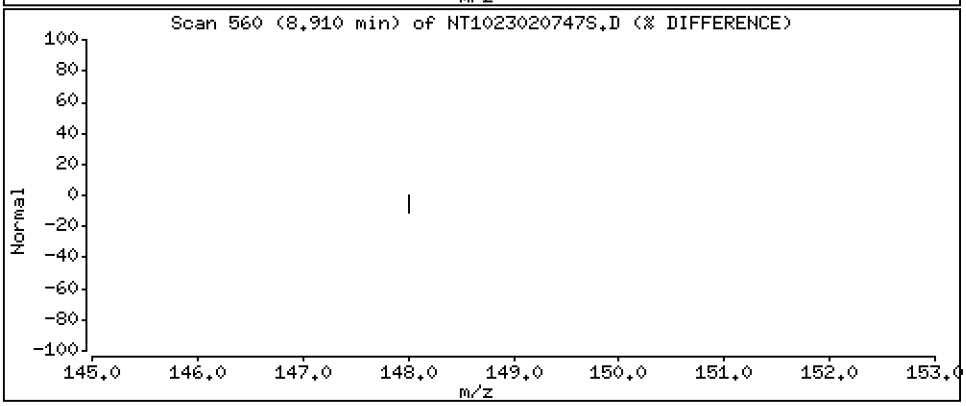












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020747S.D

Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

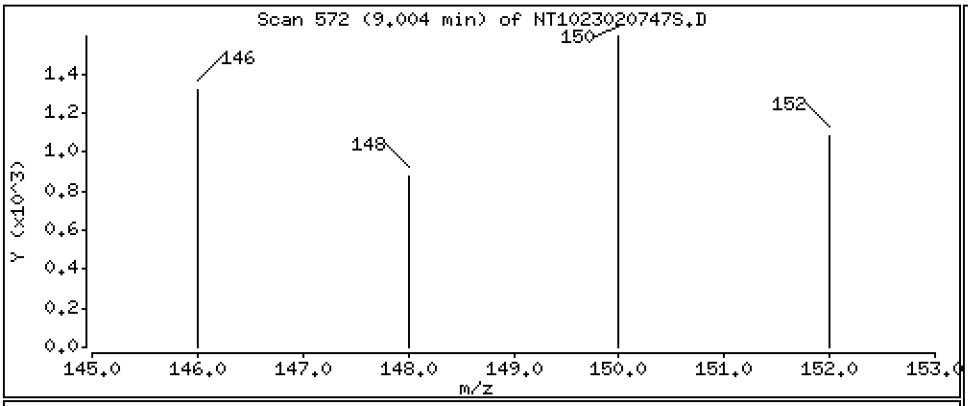
Operator: DSD

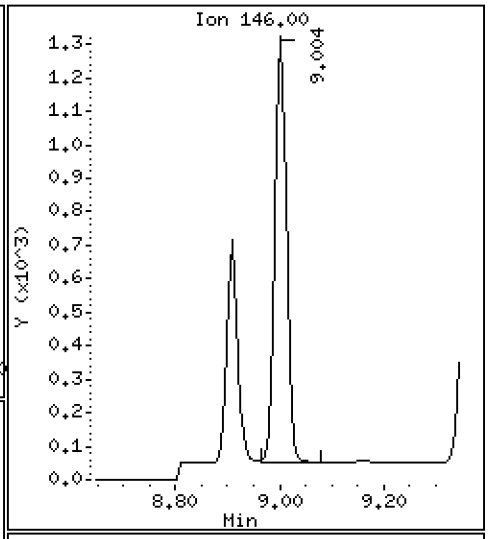
Column phase: ZB-5msi

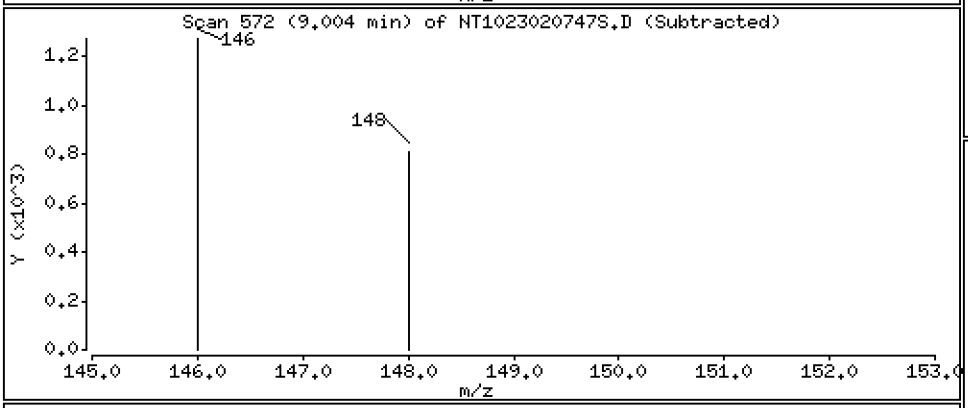
Column diameter: 0.25

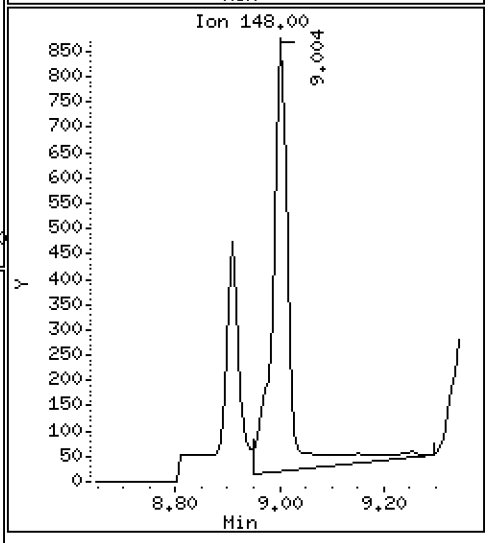
9 1,4-Dichlorobenzene

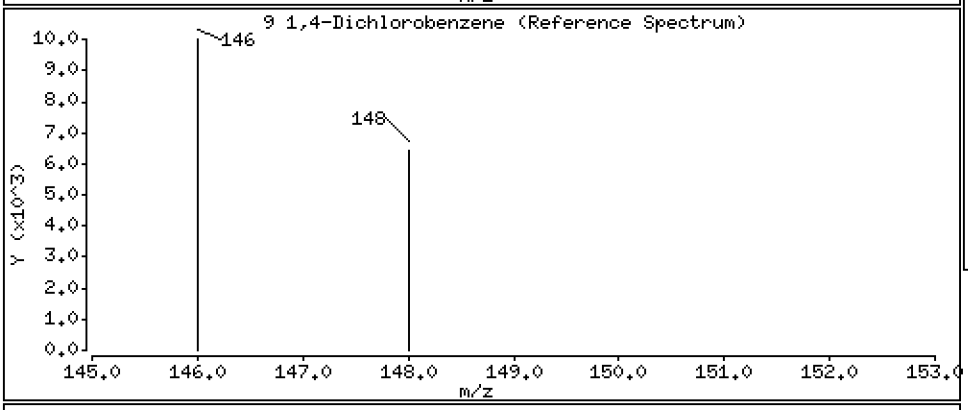
Concentration: 0.05248 ug/L

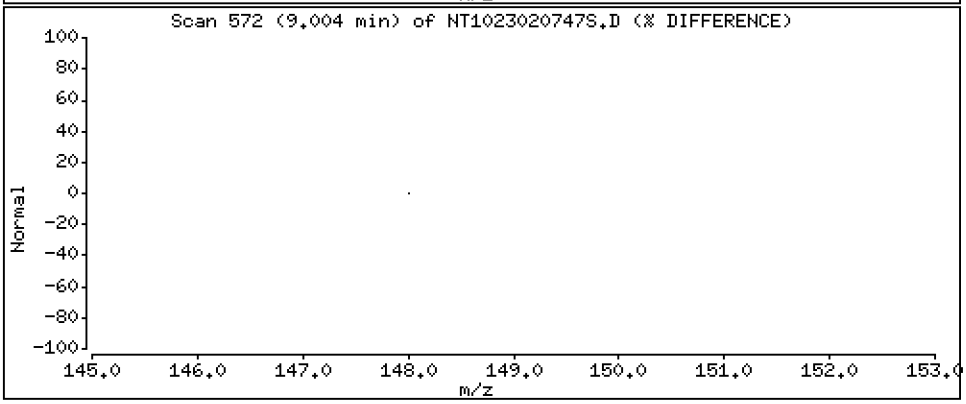












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Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

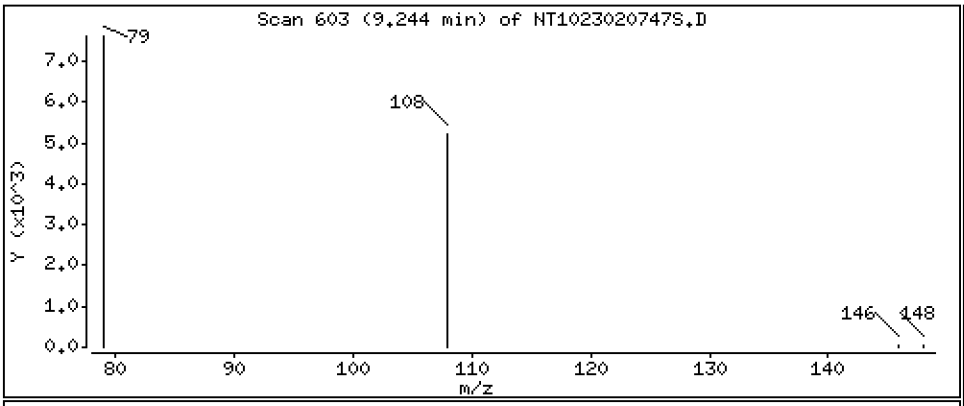
Operator: DSD

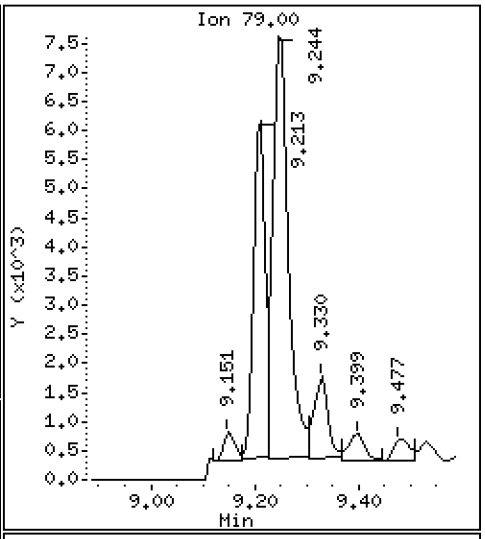
Column phase: ZB-5msi

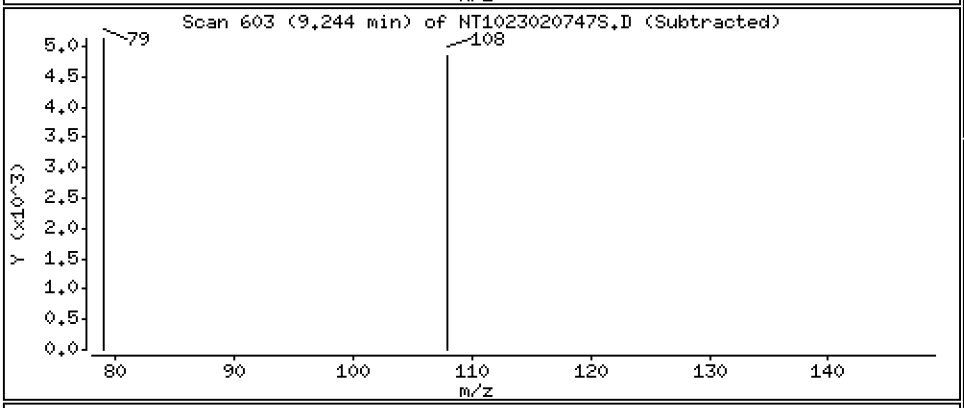
Column diameter: 0.25

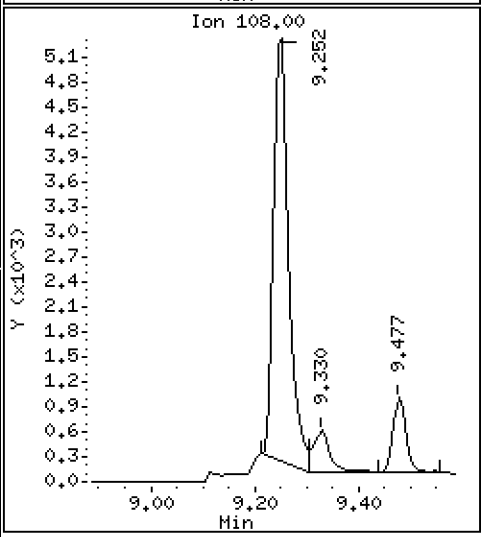
11 Benzyl alcohol

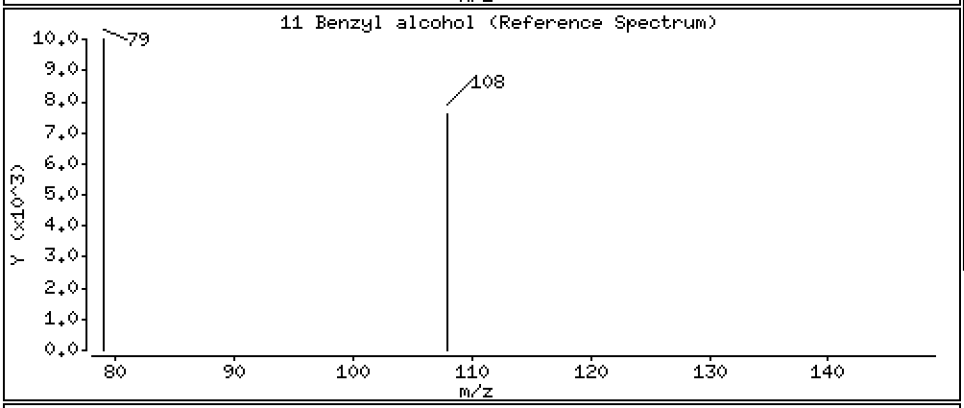
Concentration: 0.7745 ug/L

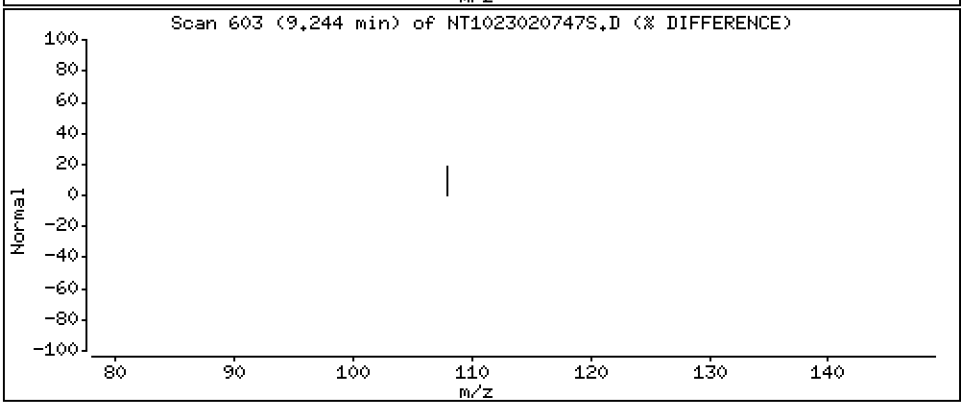












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Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

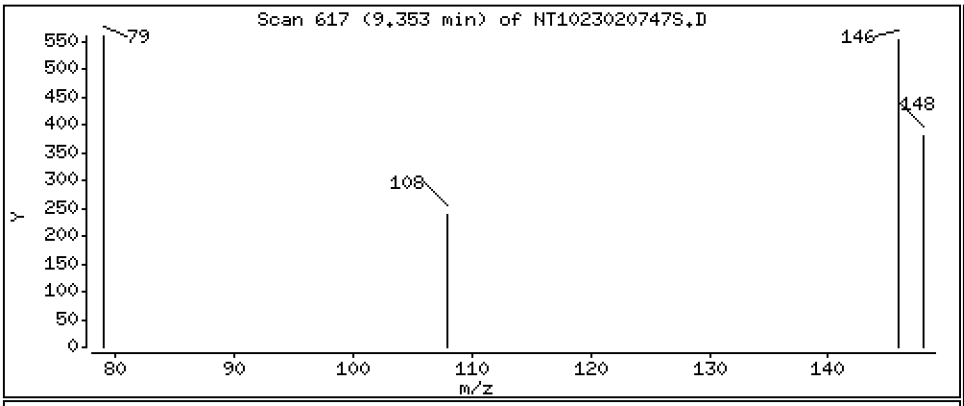
Operator: DSD

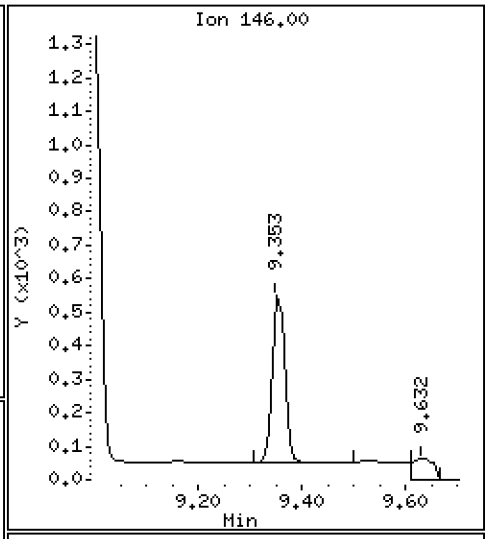
Column phase: ZB-5msi

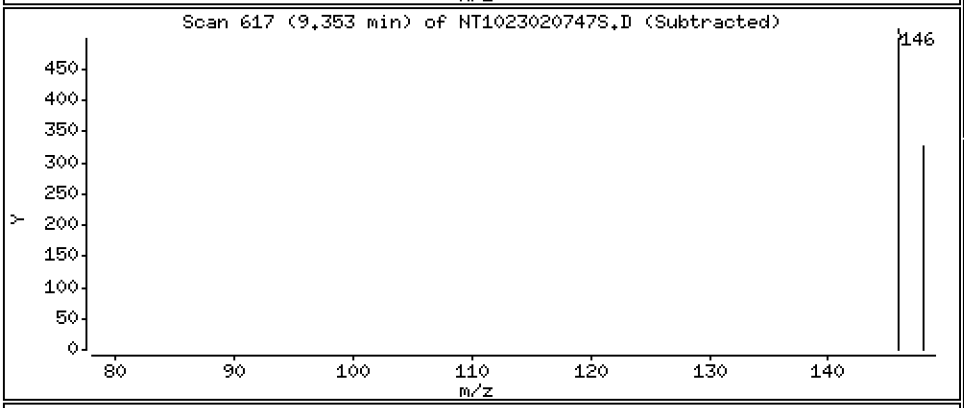
Column diameter: 0.25

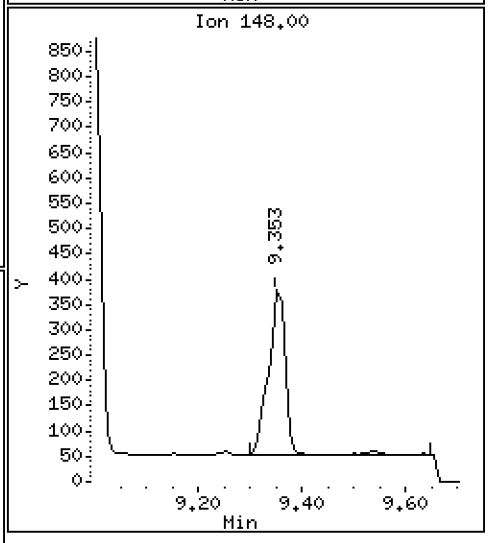
12 1,2-Dichlorobenzene

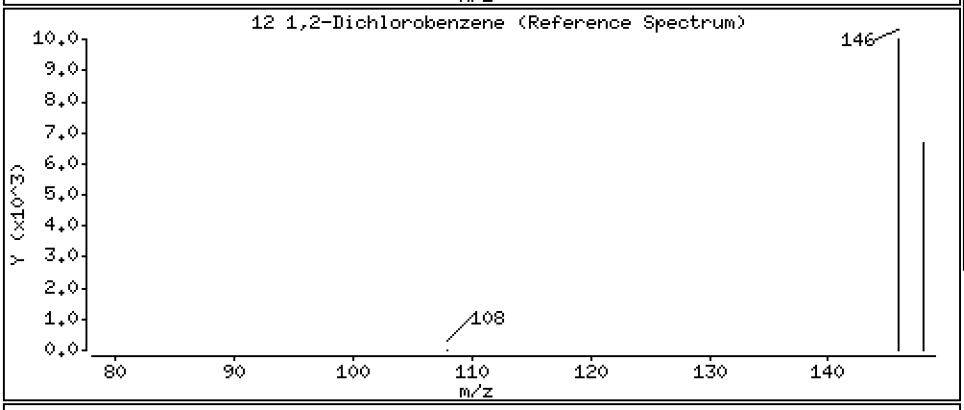
Concentration: 0.02260 ug/L

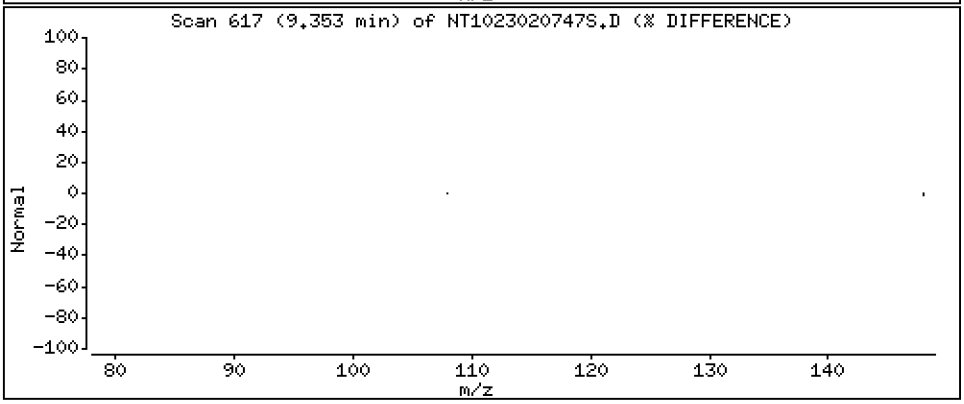












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Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

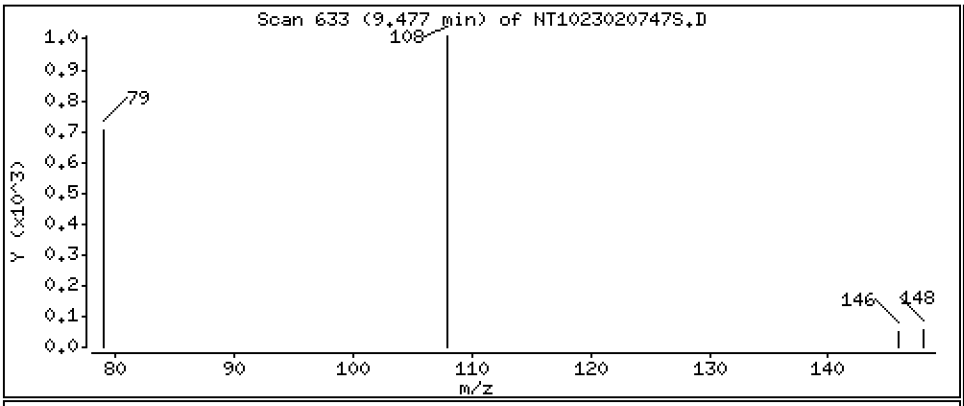
Operator: DSD

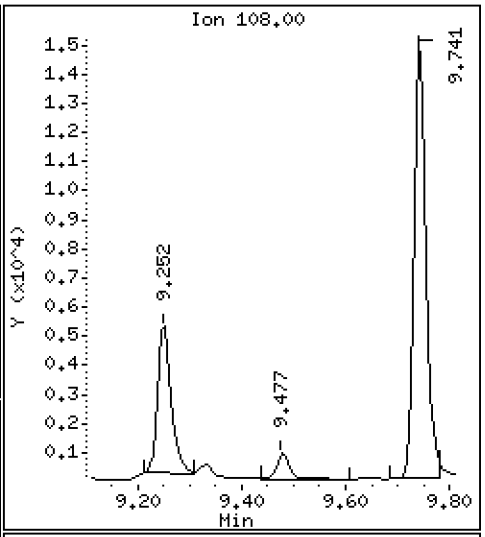
Column phase: ZB-5msi

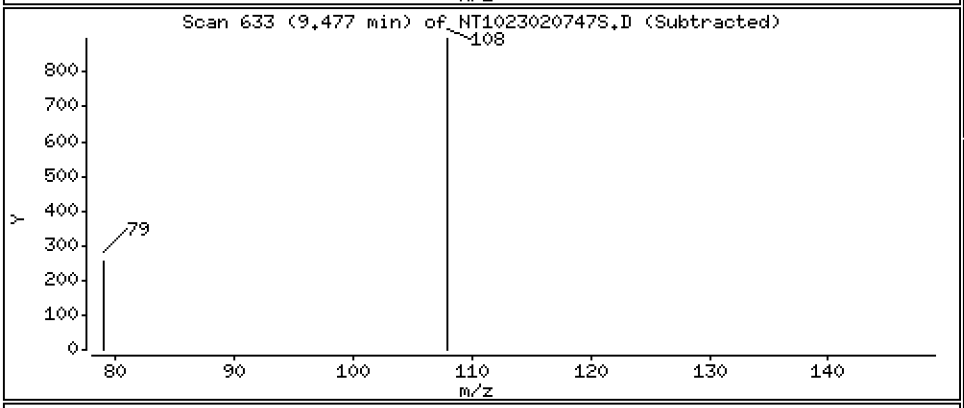
Column diameter: 0.25

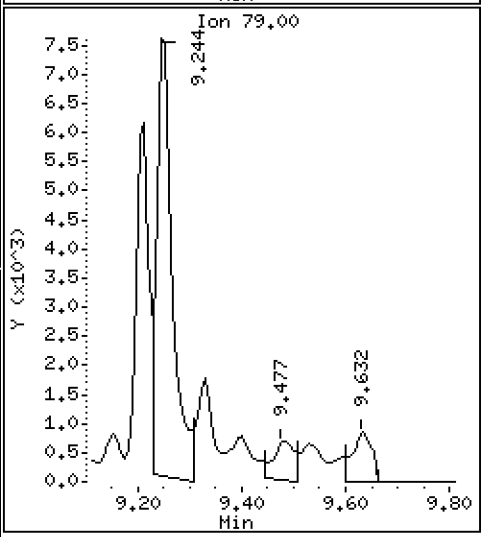
13 2-Methylphenol

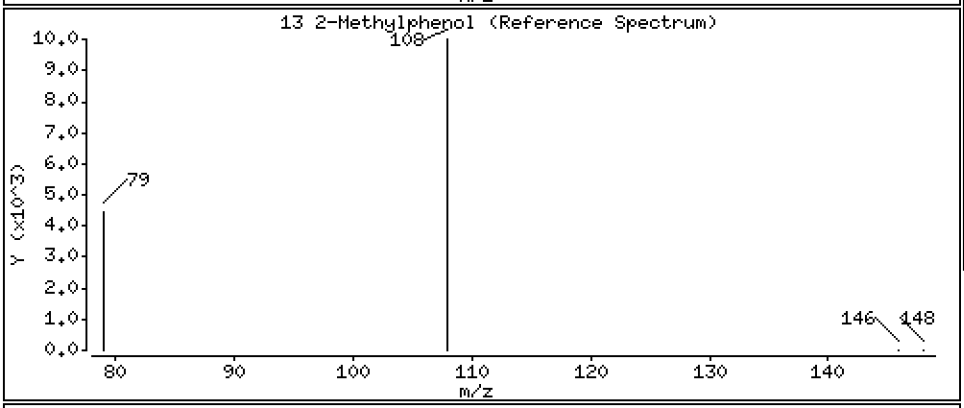
Concentration: 0.05630 ug/L

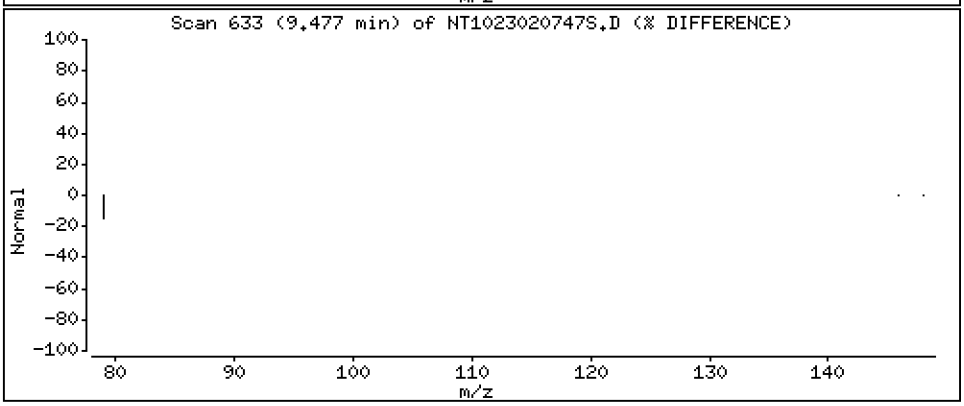












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Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

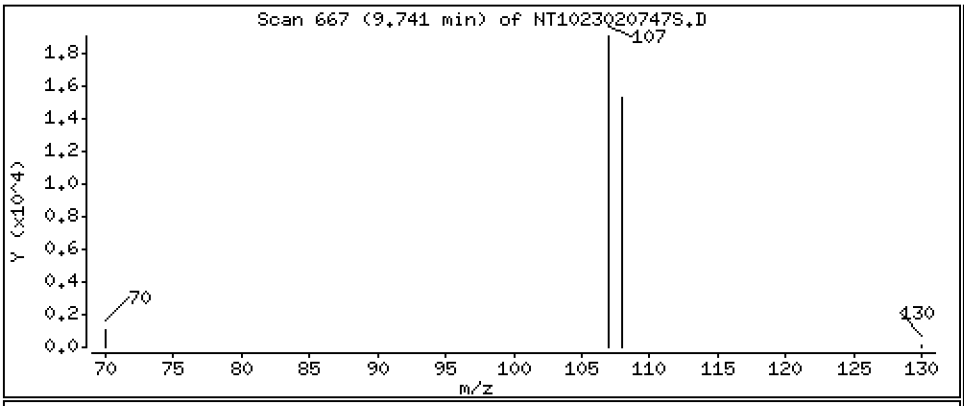
Operator: DSD

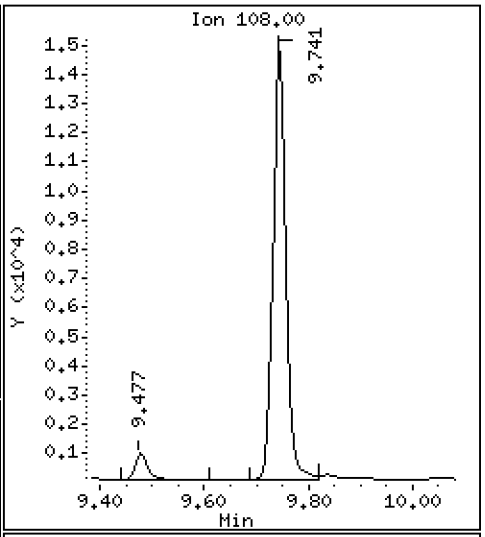
Column phase: ZB-5msi

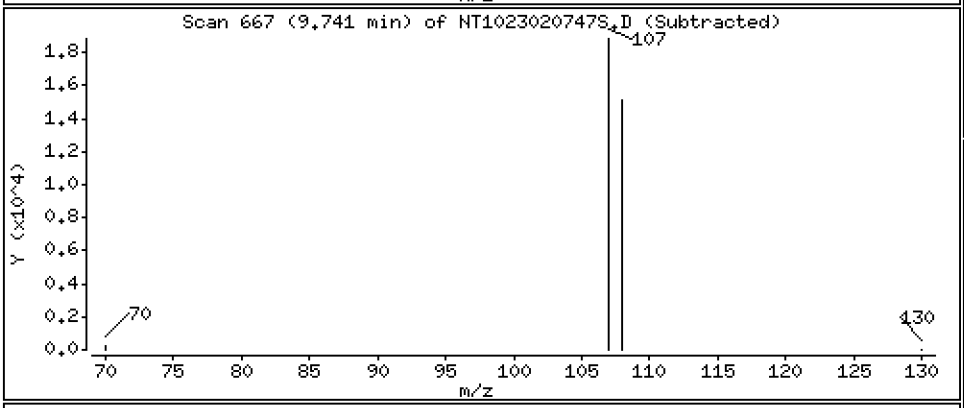
Column diameter: 0.25

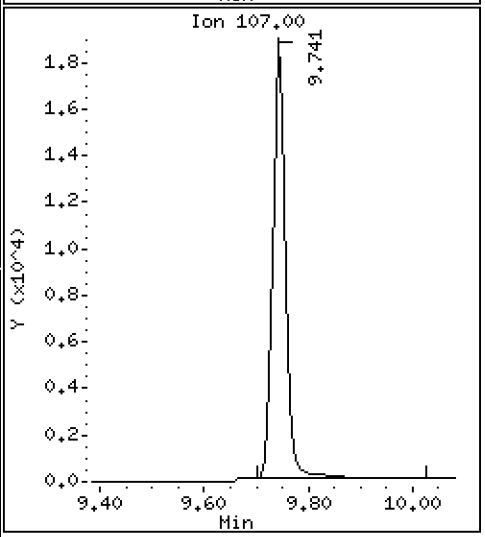
15 4-Methylphenol

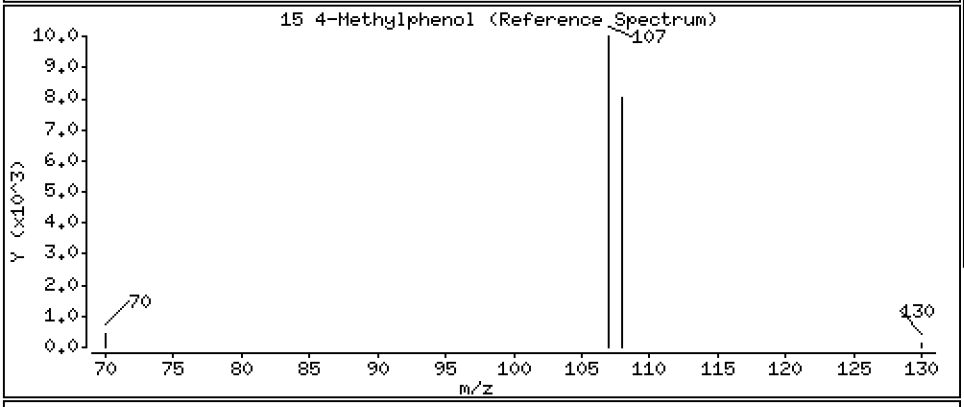
Concentration: 0.8957 ug/L

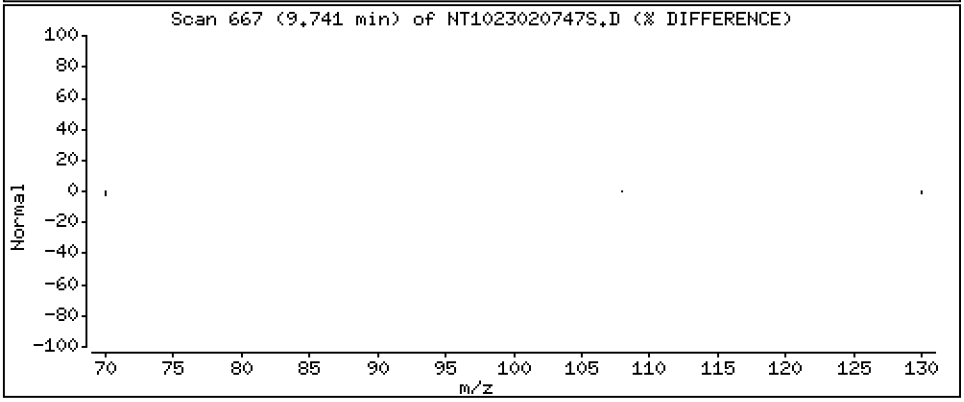












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207475.D

Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

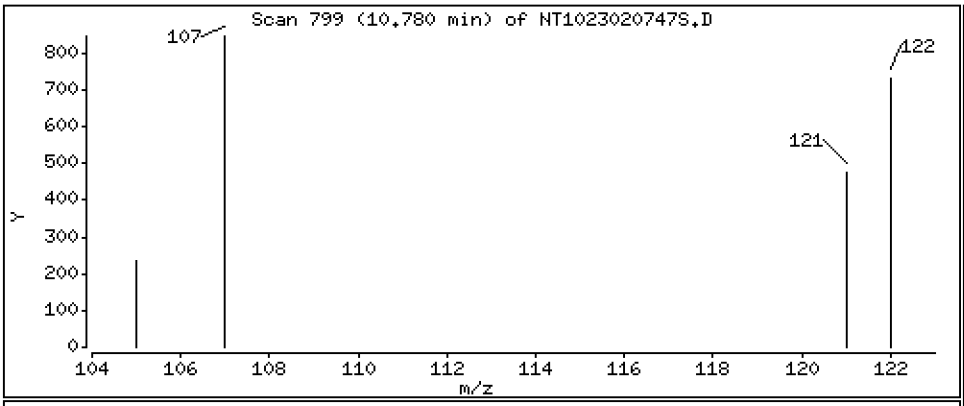
Operator: DSD

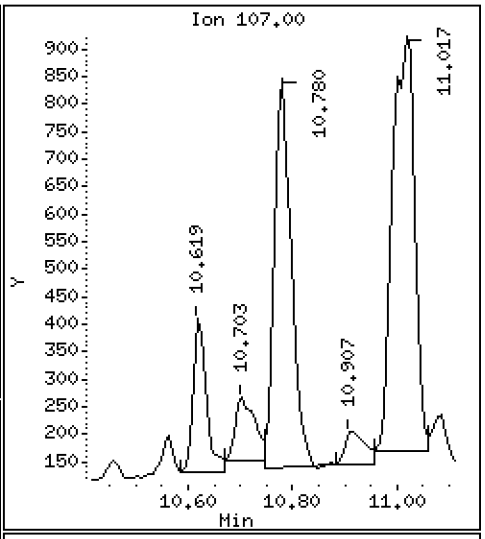
Column phase: ZB-5msi

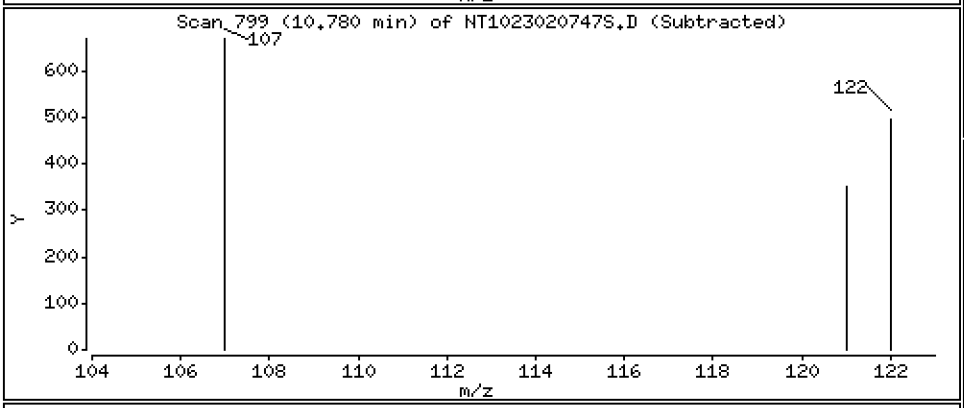
Column diameter: 0.25

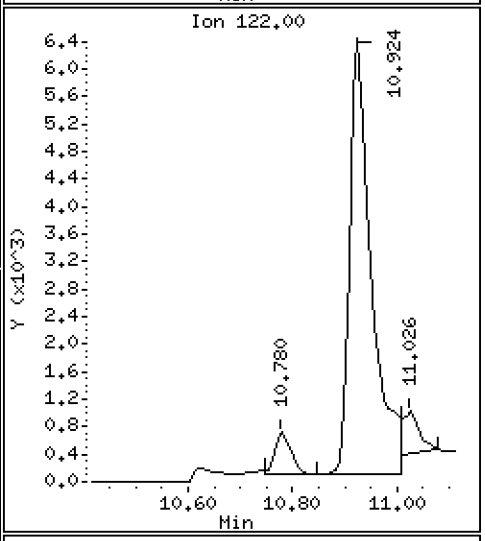
22 2,4-Dimethylphenol

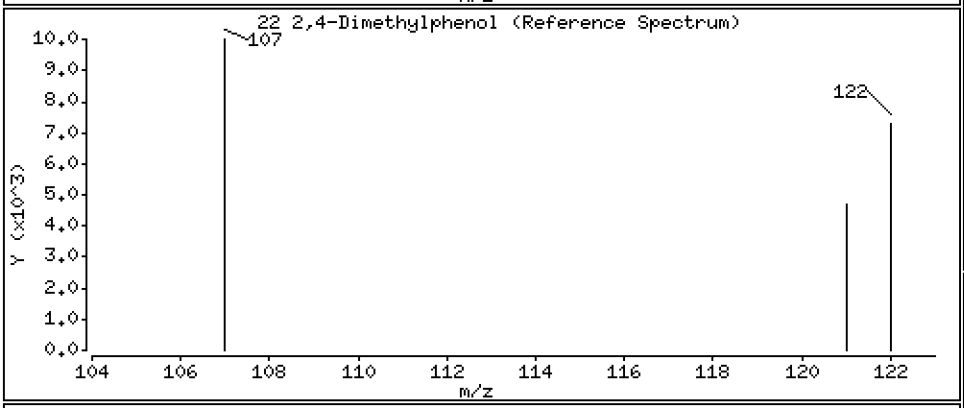
Concentration: 0.05267 ug/L

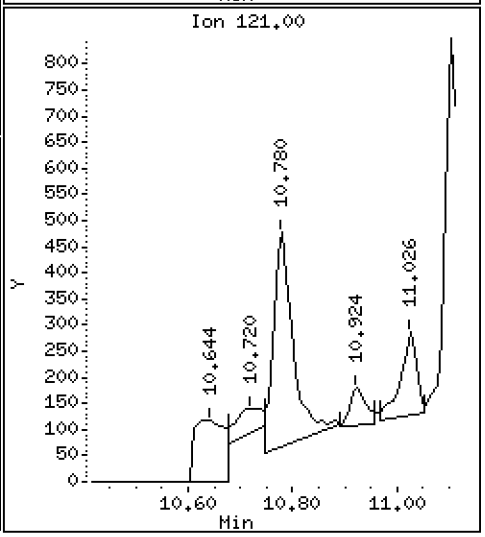


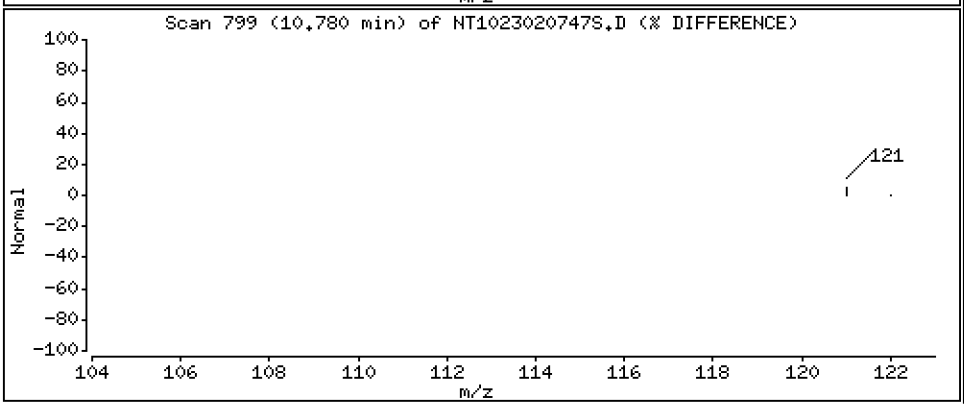












Date : 08-FEB-2023 16:58

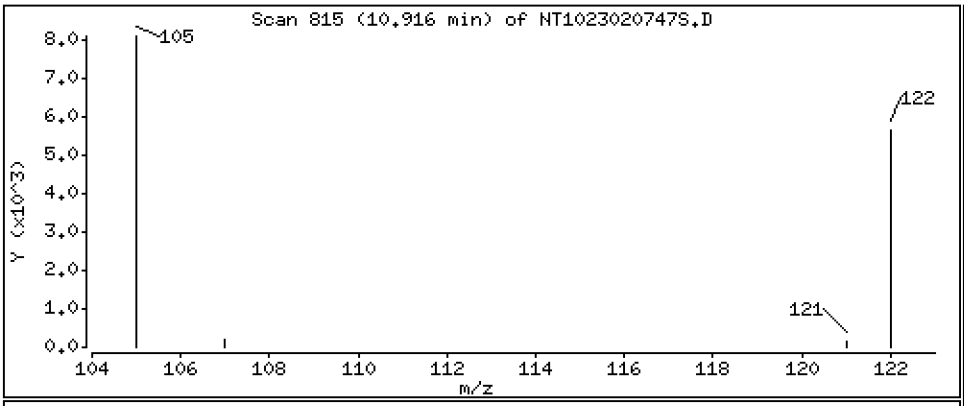
Client ID: Instrument: nt10.i

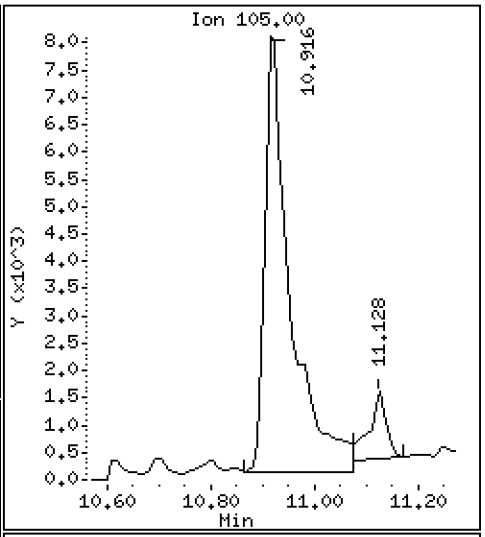
Sample Info: 22L0459-07

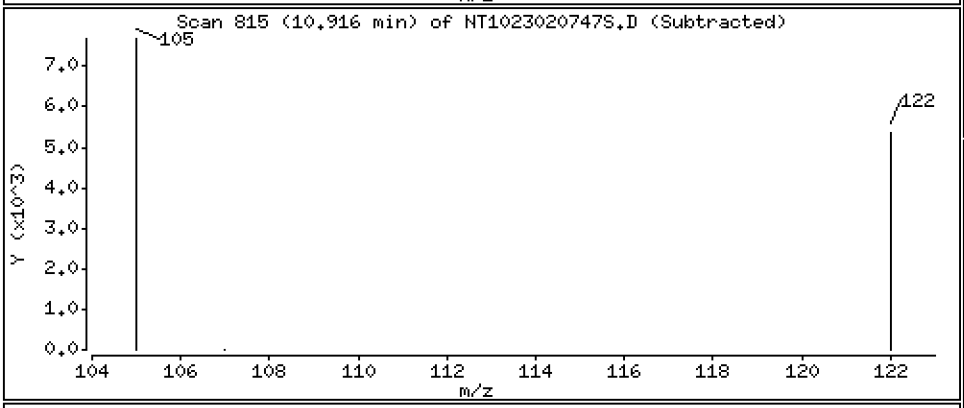
Volume Injected (uL): 1.0 Operator: DSD

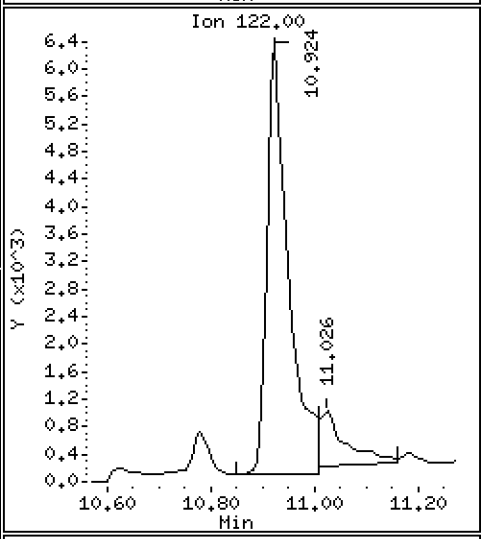
Column phase: ZB-5msi Column diameter: 0.25

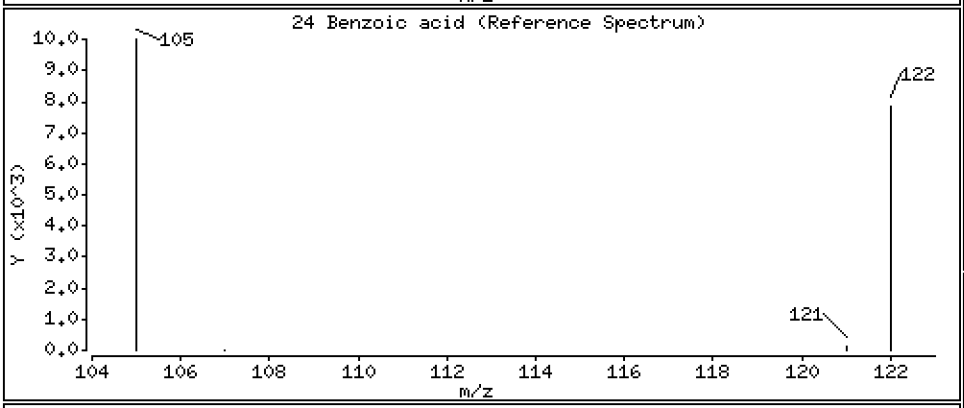
24 Benzoic acid Concentration: 1.954 ug/L

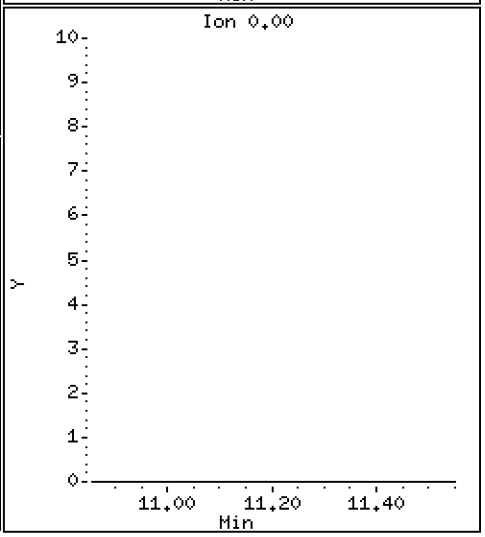


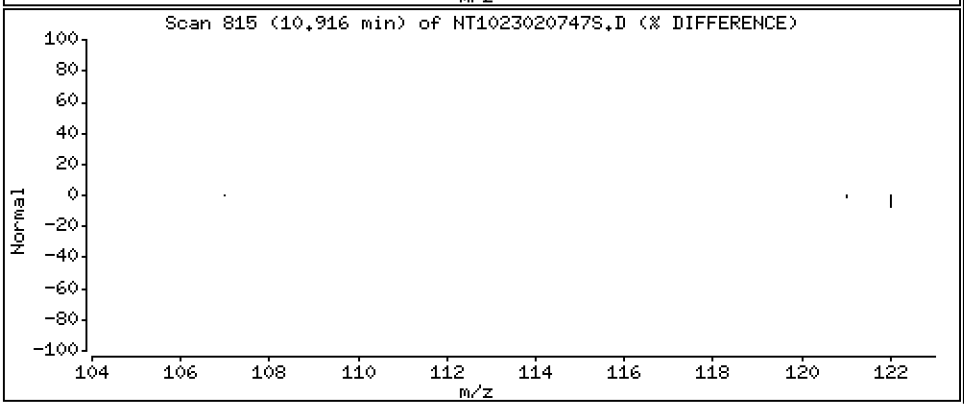












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Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

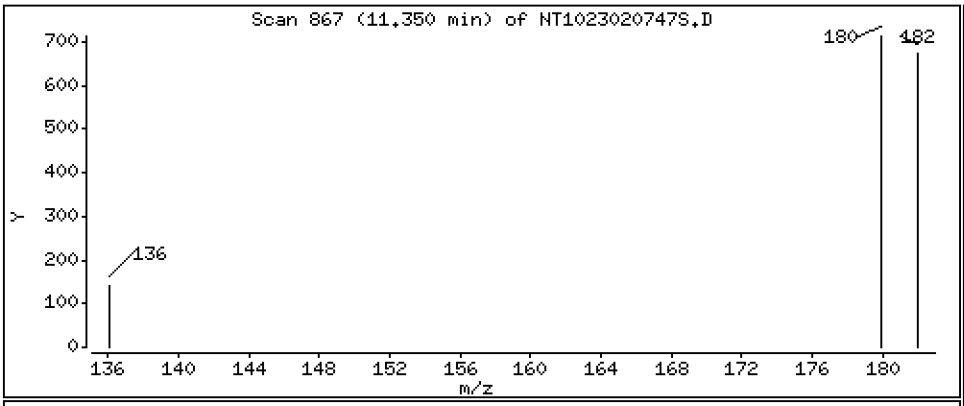
Operator: DSD

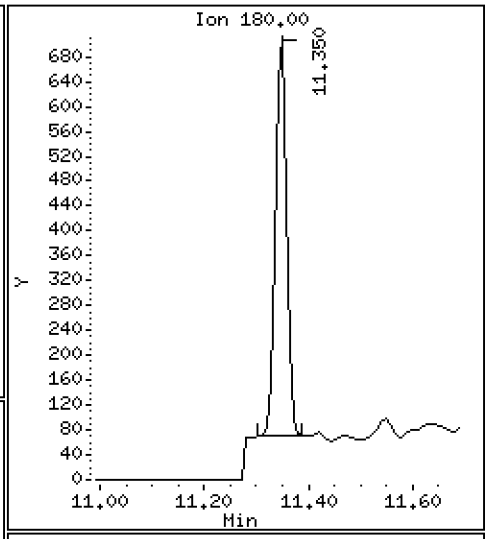
Column phase: ZB-5msi

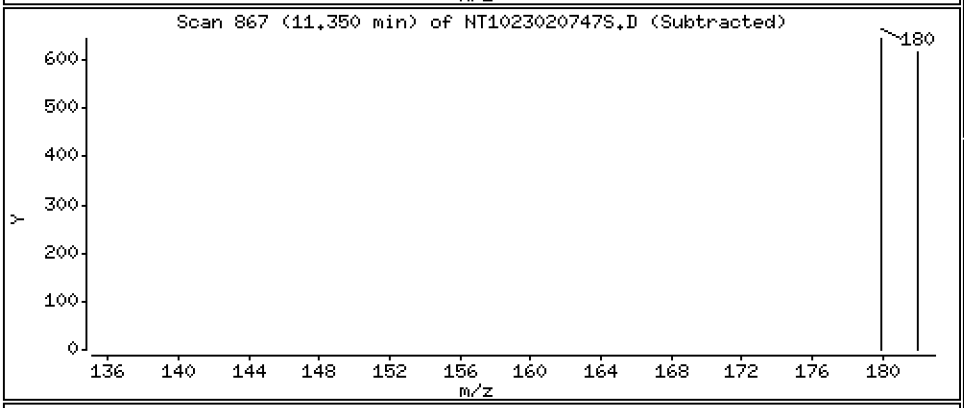
Column diameter: 0.25

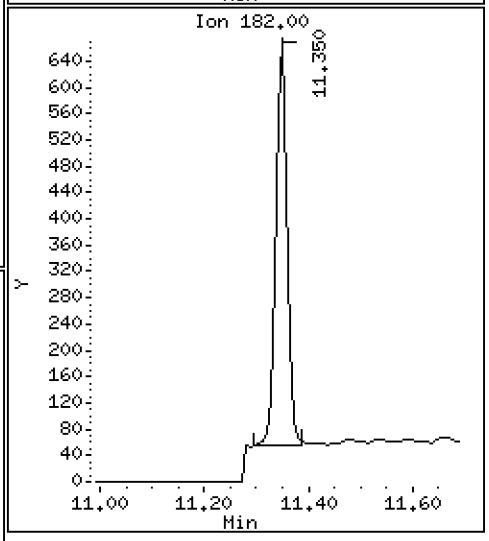
26 1,2,4-Trichlorobenzene

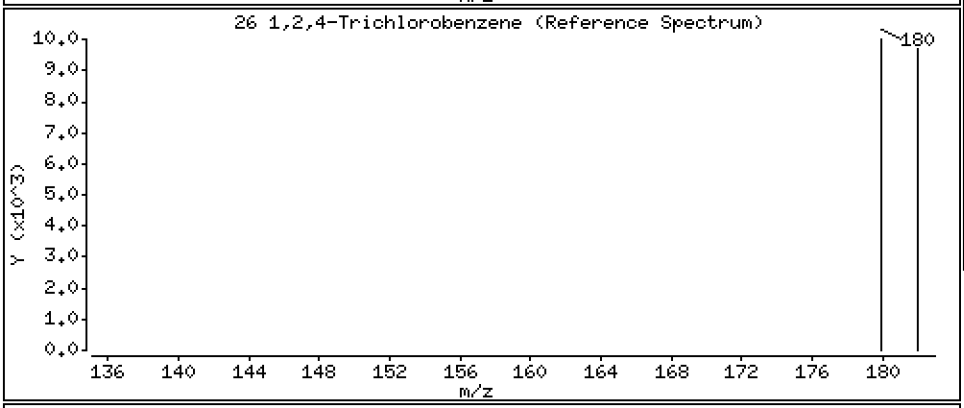
Concentration: 0.03521 ug/L

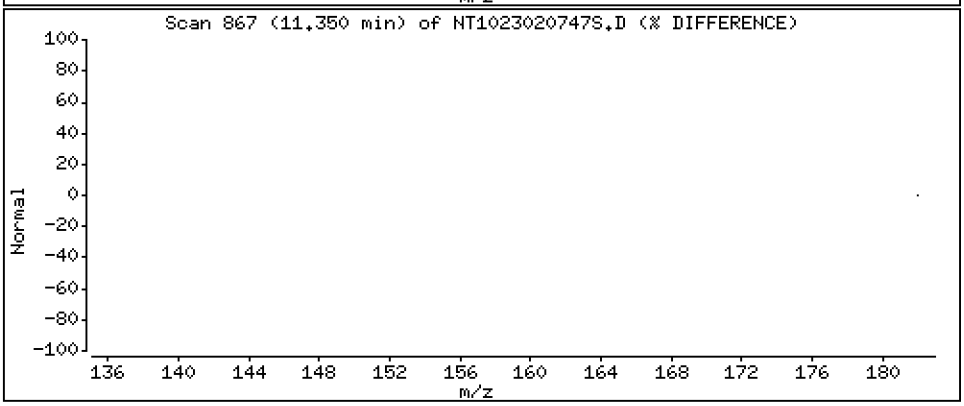












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207475.D

Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

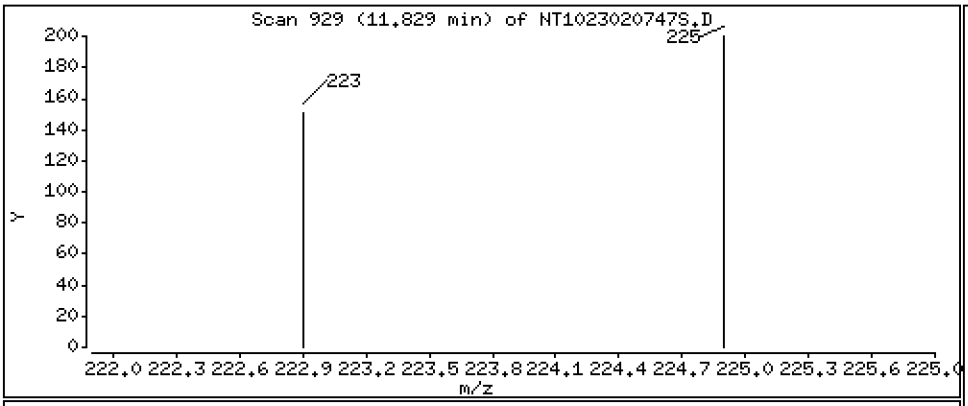
Operator: DSD

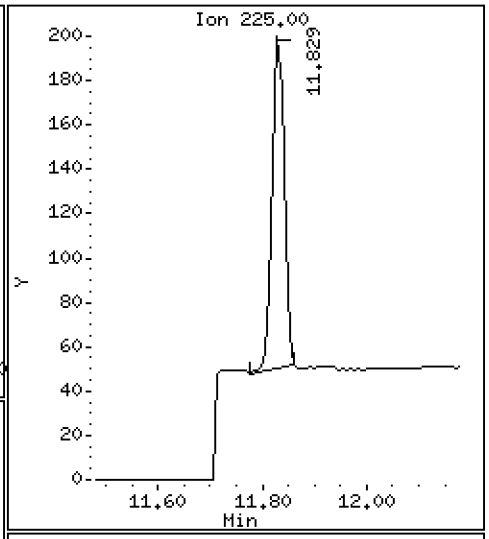
Column phase: ZB-5msi

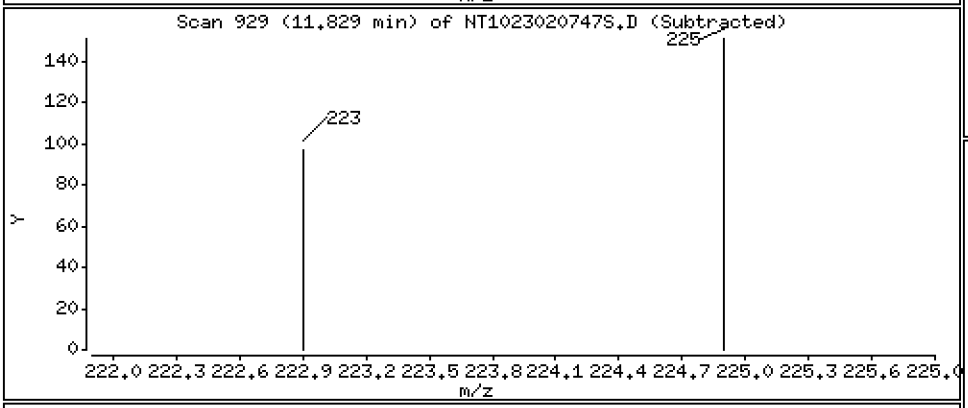
Column diameter: 0.25

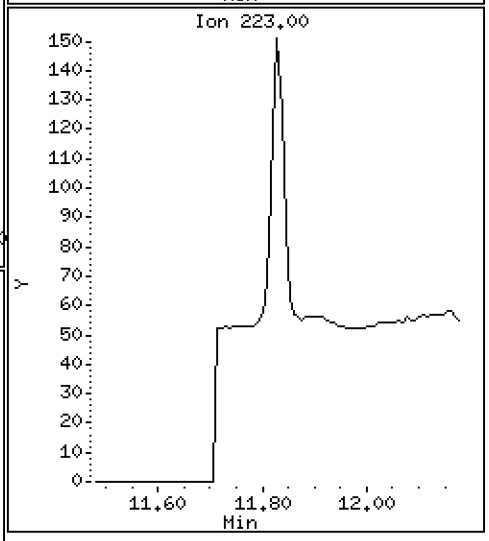
30 Hexachlorobutadiene

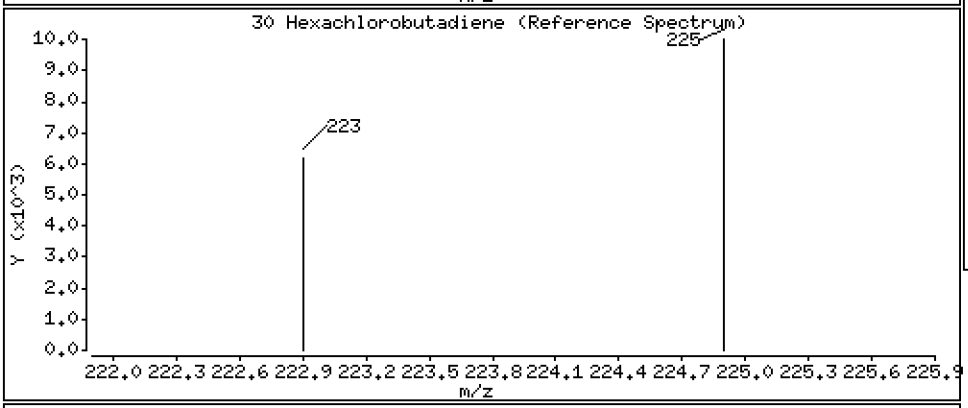
Concentration: 0.01442 ug/L

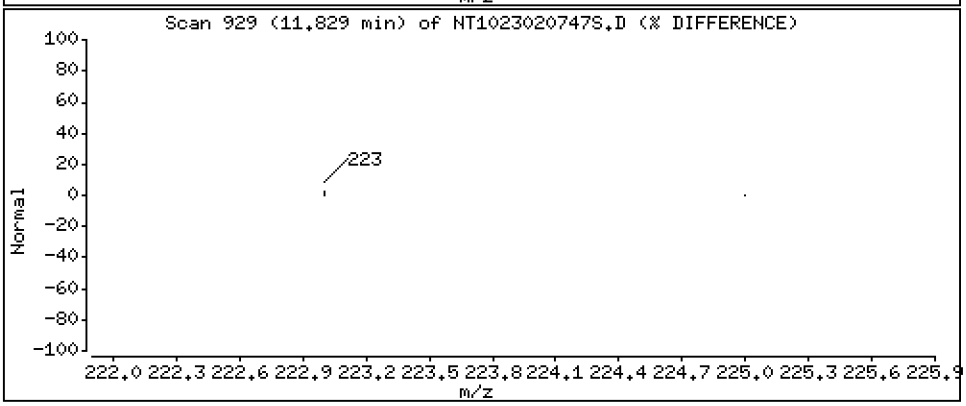












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Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

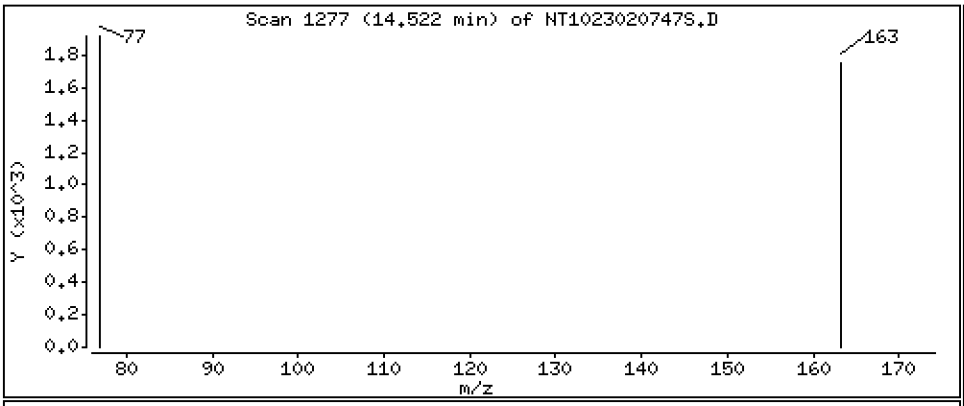
Operator: DSD

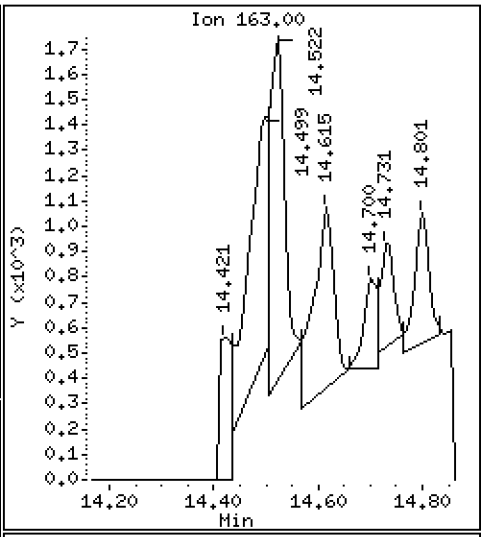
Column phase: ZB-5msi

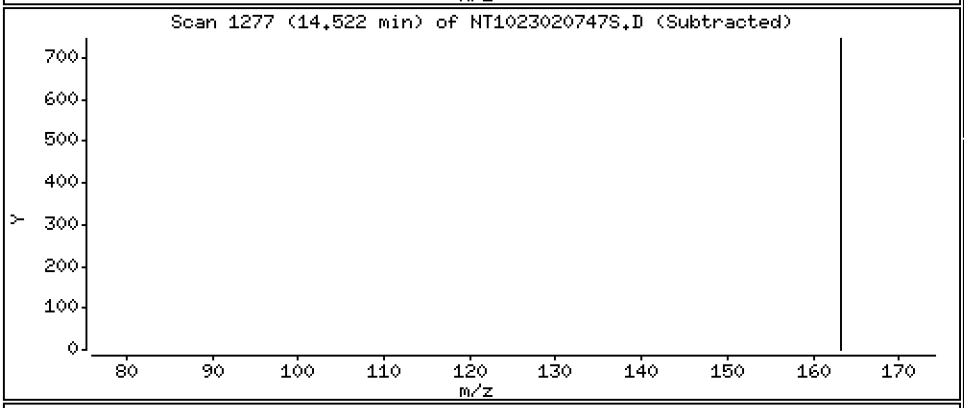
Column diameter: 0.25

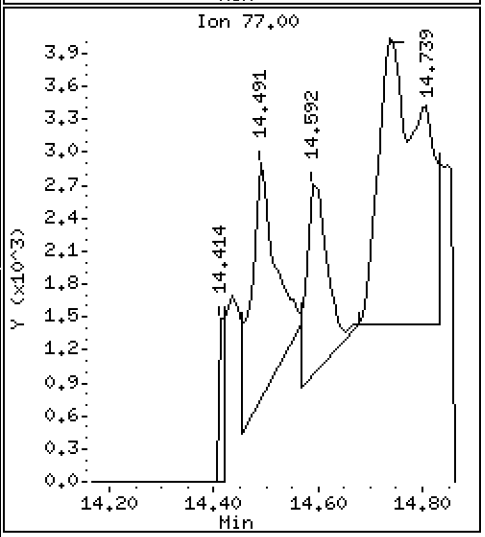
39 Dimethylphthalate

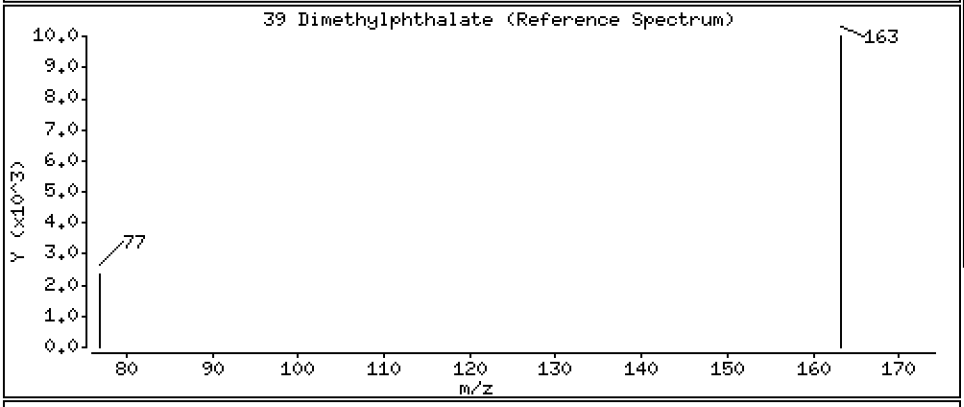
Concentration: 0.06904 ug/L

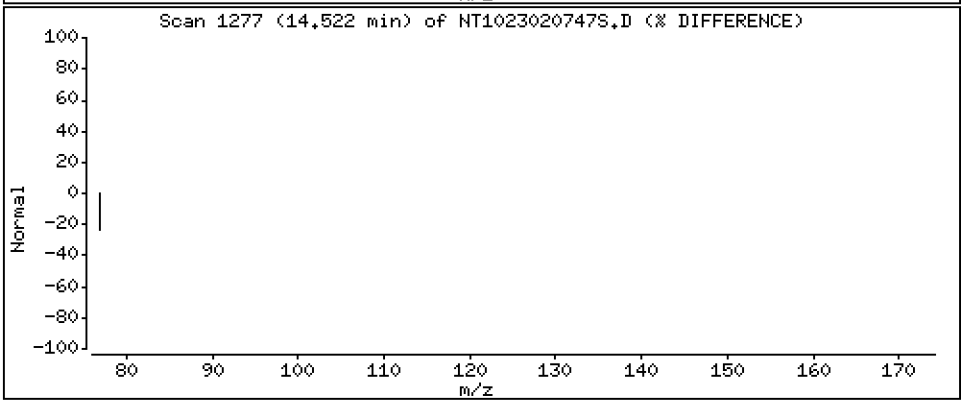












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Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

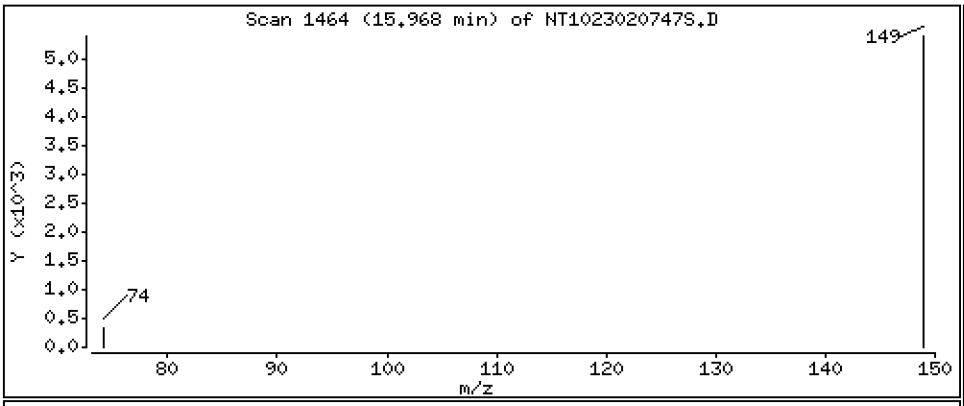
Operator: DSD

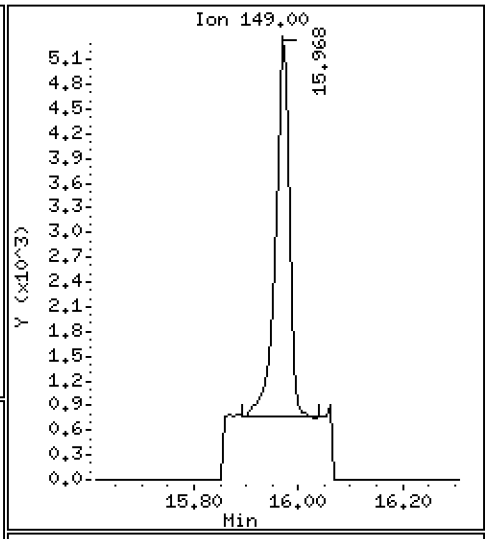
Column phase: ZB-5msi

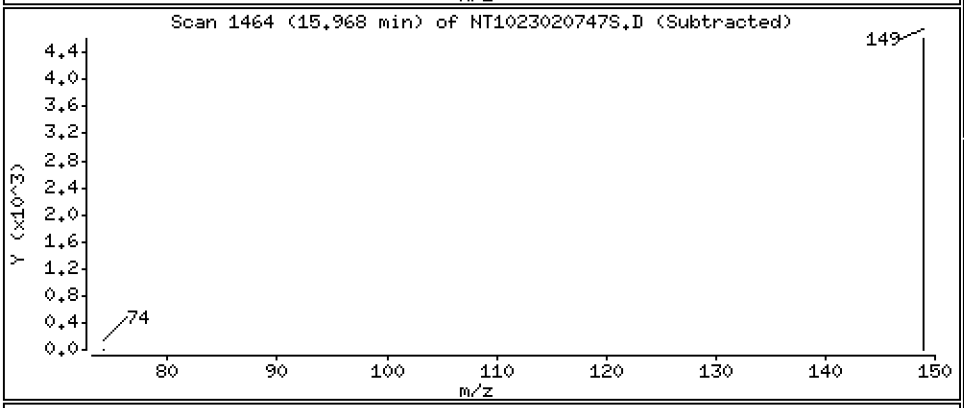
Column diameter: 0.25

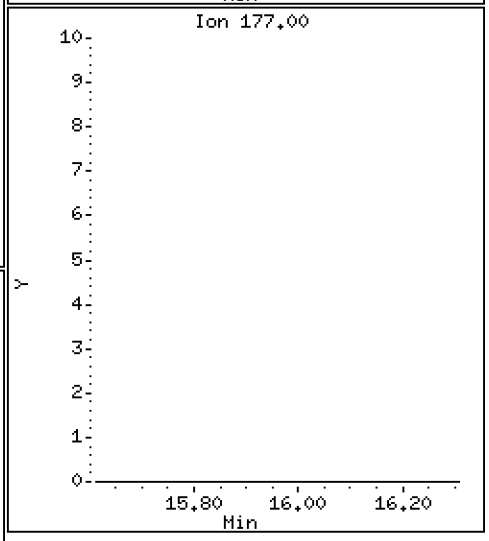
50 Diethylphthalate

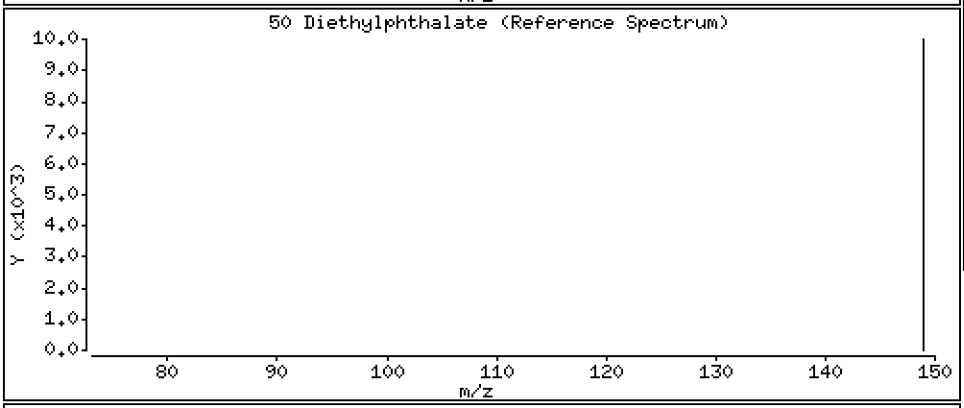
Concentration: 0.1480 ug/L

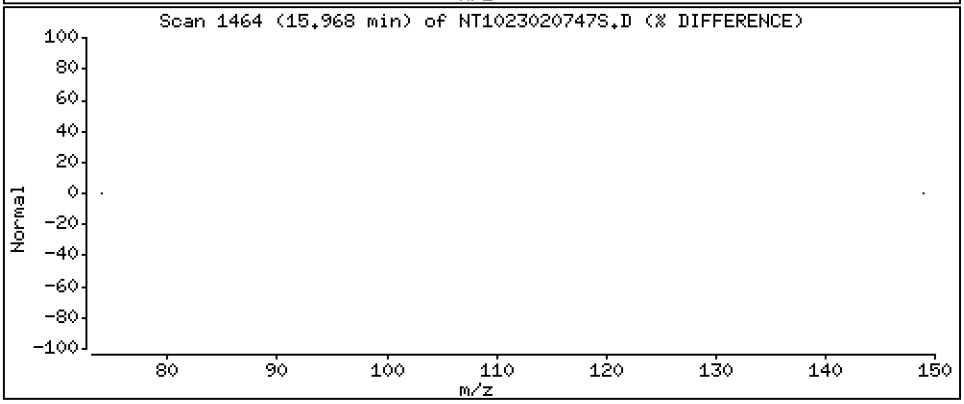












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Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

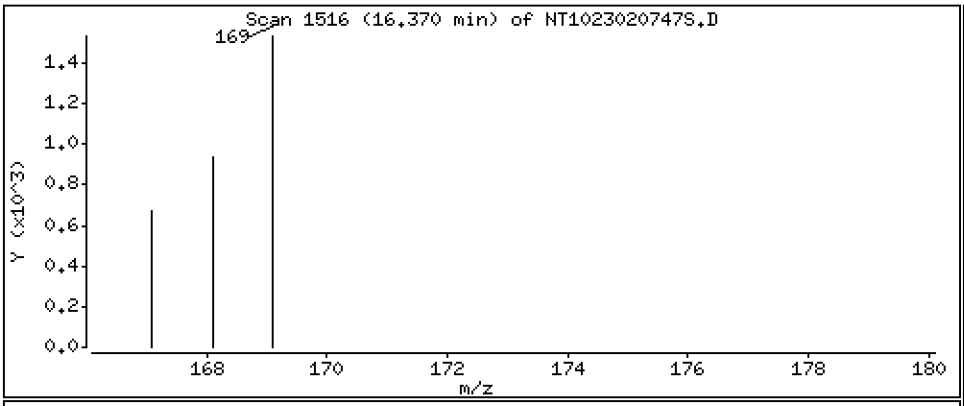
Operator: DSD

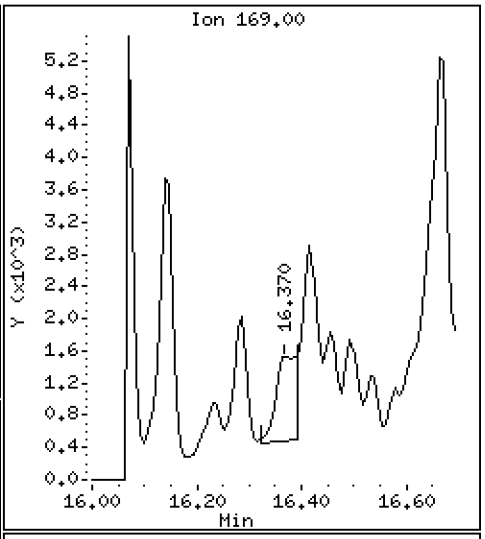
Column phase: ZB-5msi

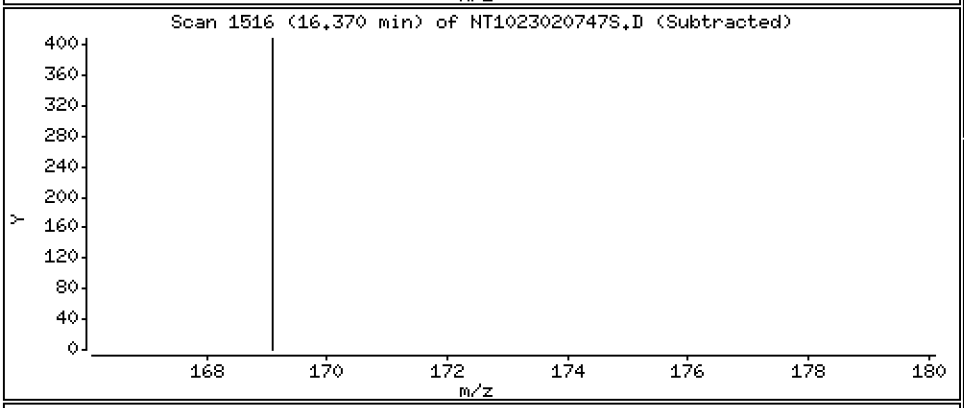
Column diameter: 0.25

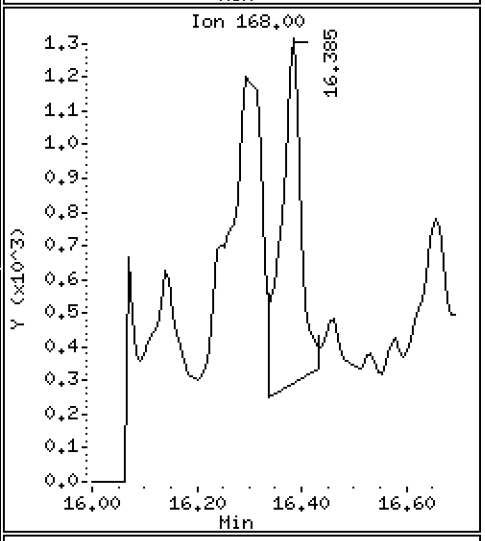
54 N-Nitrosodiphenylamine

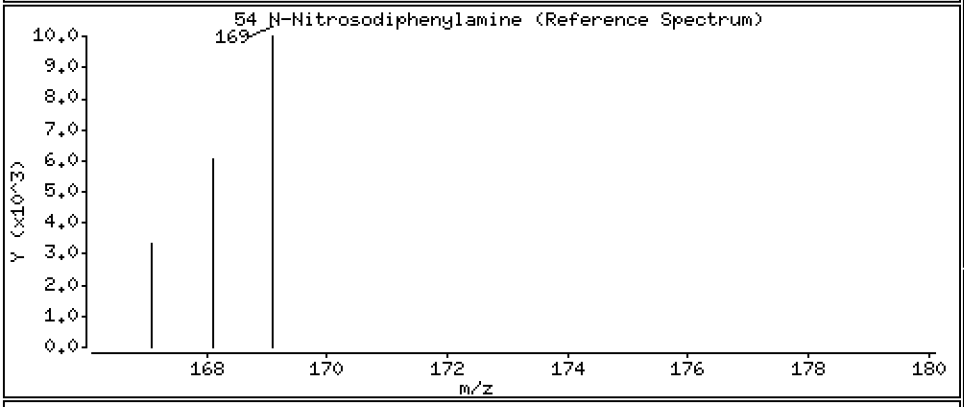
Concentration: 0.06241 ug/L

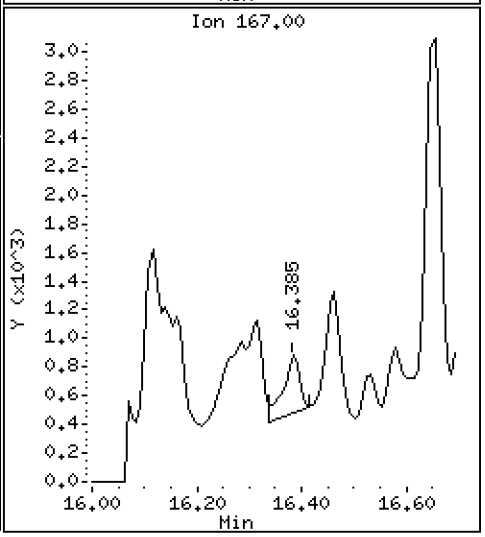


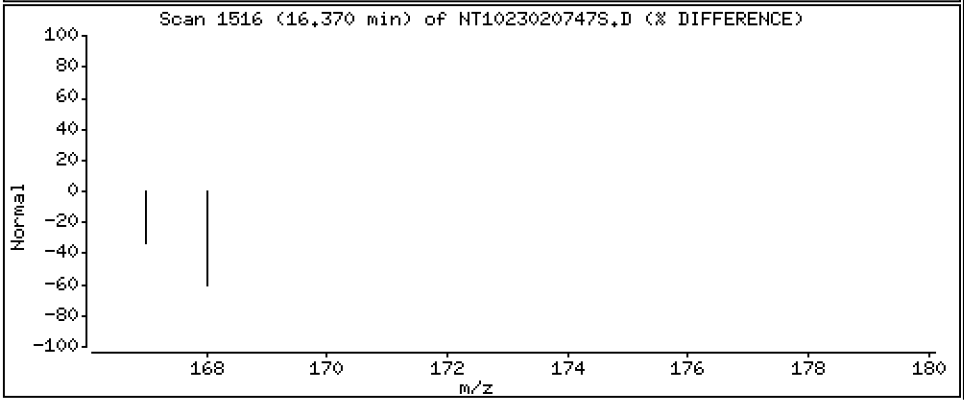












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Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

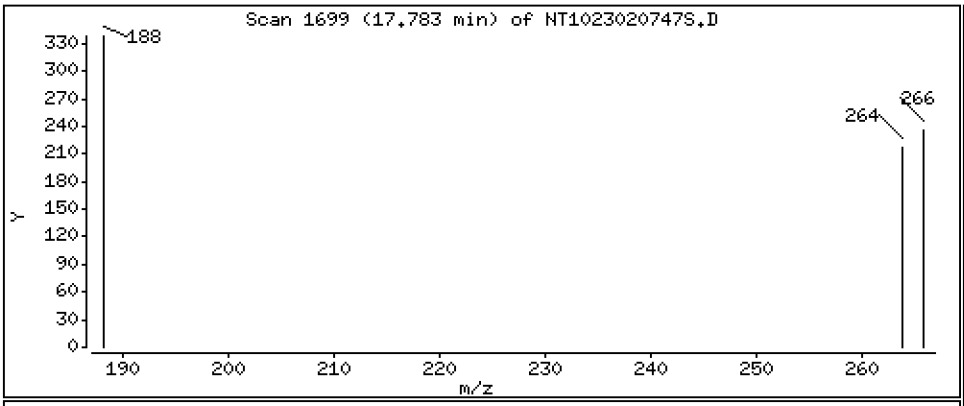
Operator: DSD

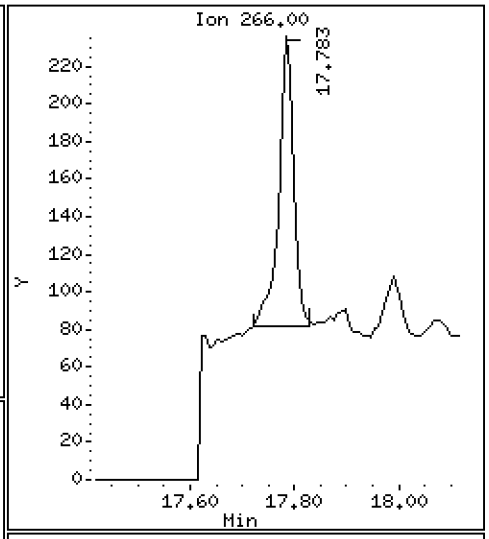
Column phase: ZB-5msi

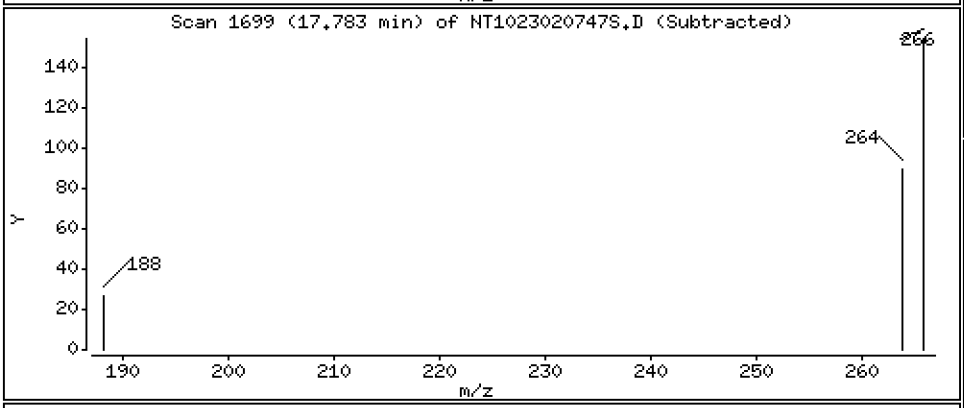
Column diameter: 0.25

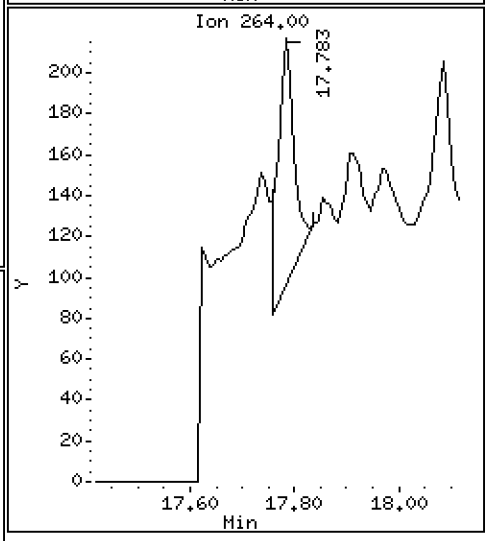
58 Pentachlorophenol

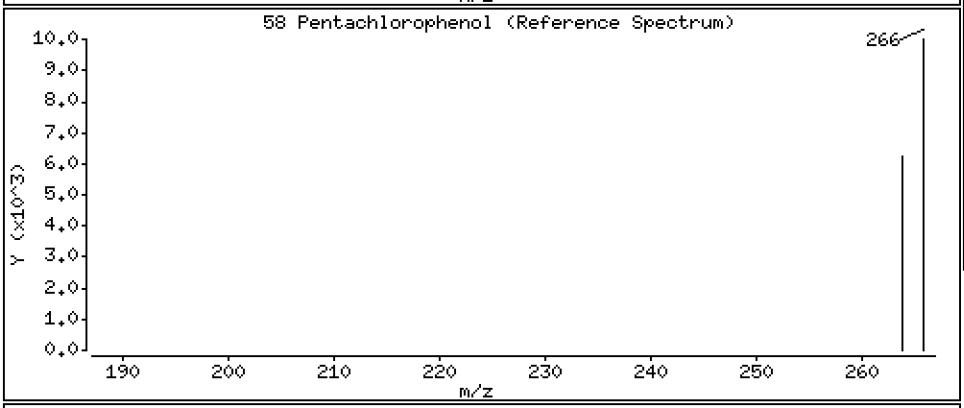
Concentration: 0.04167 ug/L

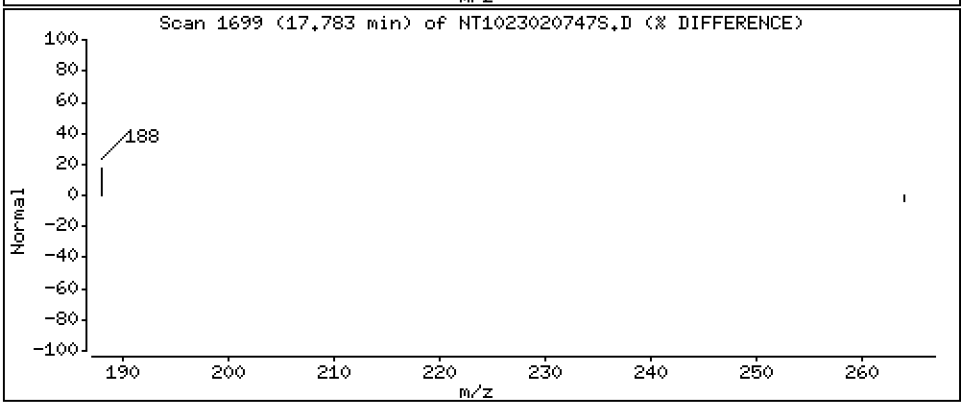












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020747S.D

Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

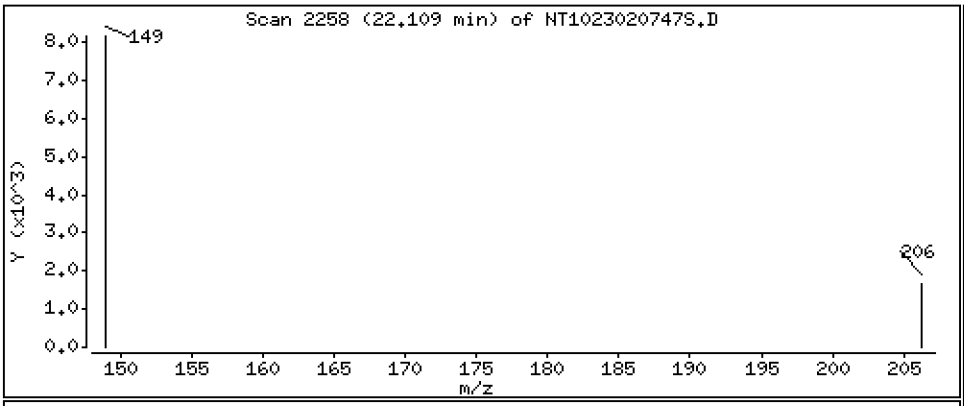
Operator: DSD

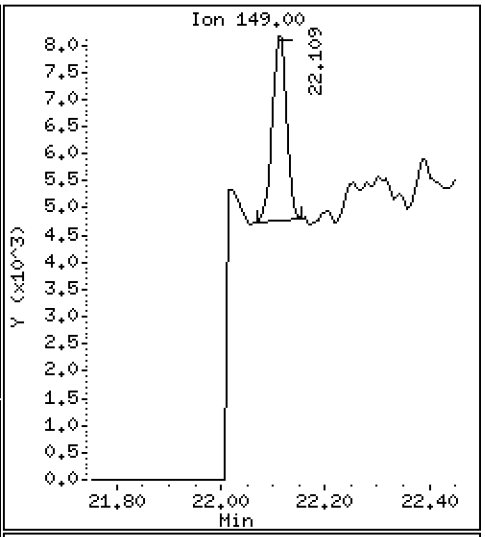
Column phase: ZB-5msi

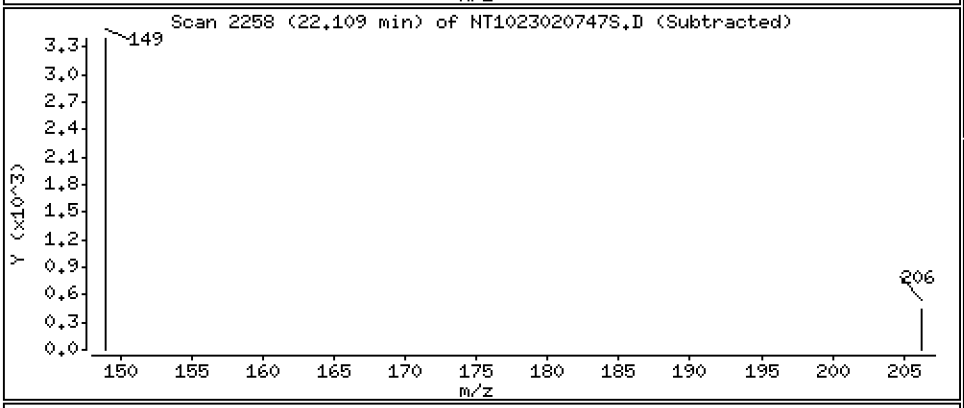
Column diameter: 0.25

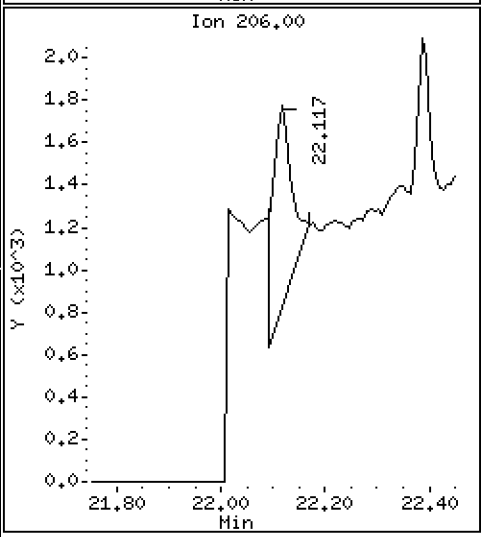
67 Butylbenzylphthalate

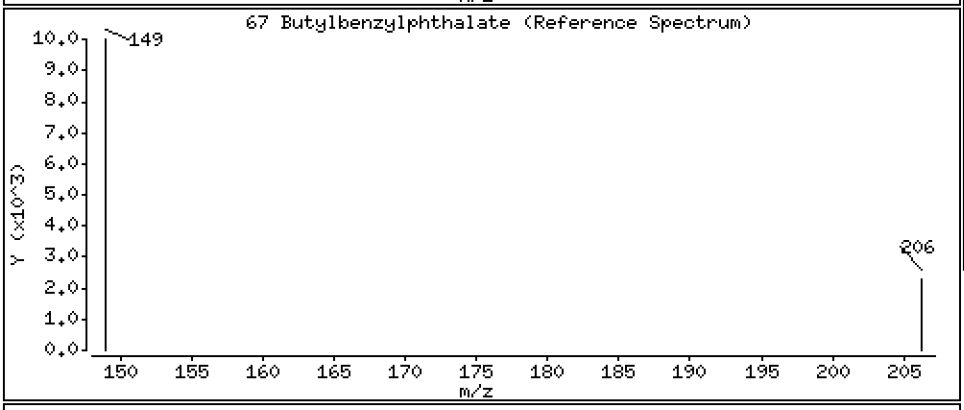
Concentration: 0.1859 ug/L

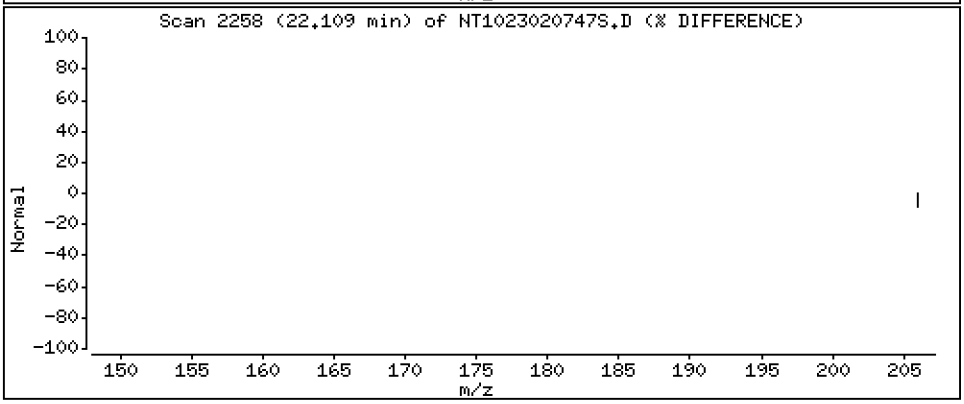












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020747S.D

Date : 08-FEB-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: 22L0459-07

Volume Injected (uL): 1.0

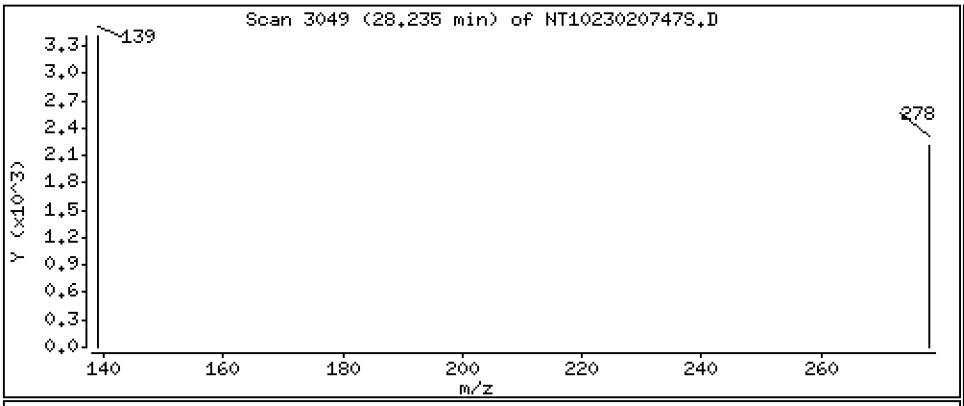
Operator: DSD

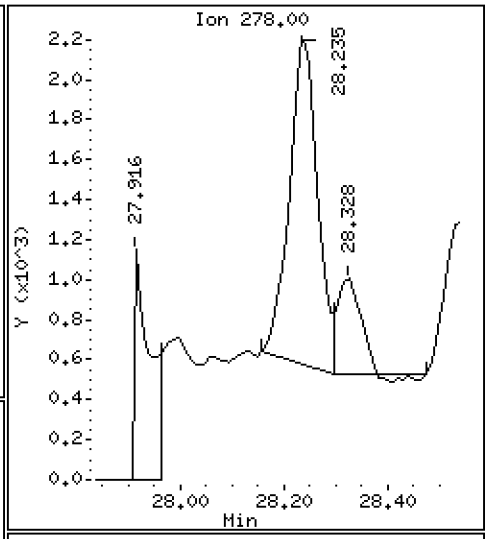
Column phase: ZB-5msi

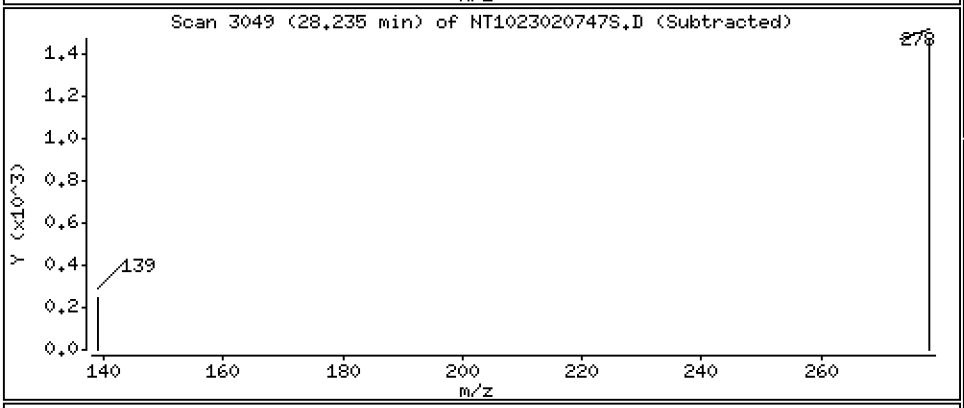
Column diameter: 0.25

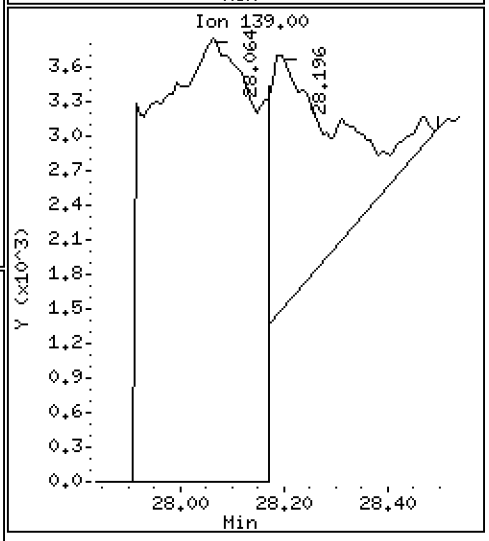
79 Dibenzo(a,h)anthracene

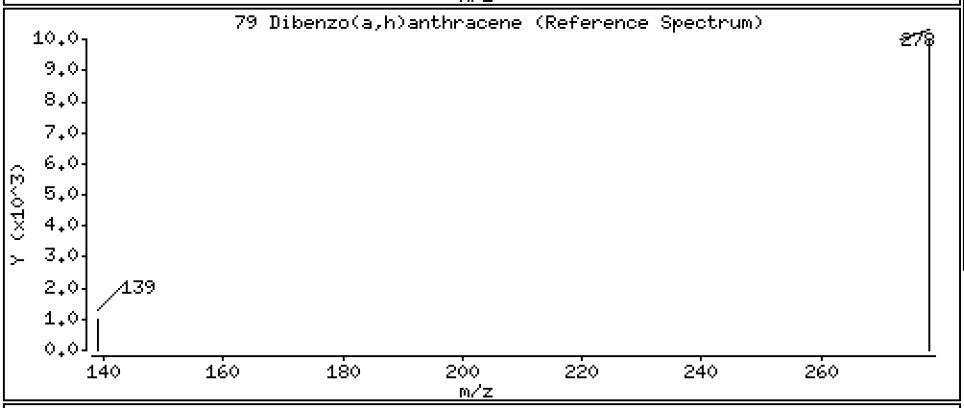
Concentration: 0.1192 ug/L

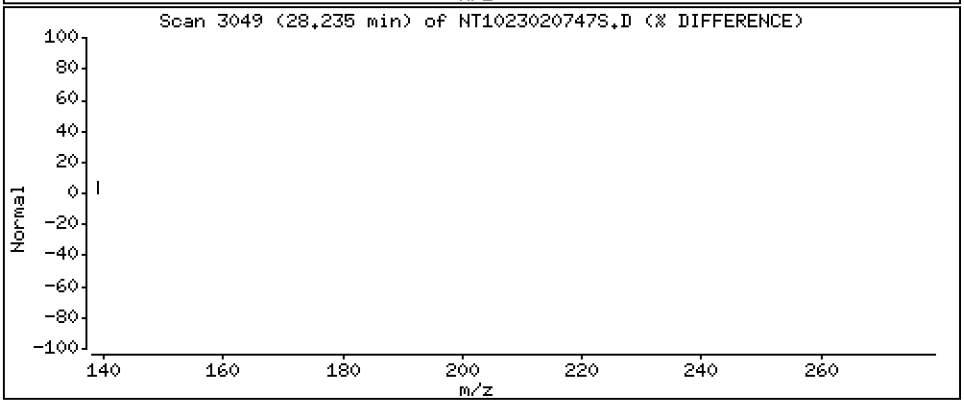












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020747S.D
Lab Smp Id: 22L0459-07
Inj Date : 08-FEB-2023 16:58 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : 22L0459-07
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.792	6.777	(0.757)	140554	5.26274	5.263(R)
3	Phenol	94	8.377	8.369	(0.934)	48571	1.20608	1.206
7	1,3-Dichlorobenzene	146	8.910	8.902	(0.993)	974	0.02686	0.02686
* 8	1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	87825	4.00000	
9	1,4-Dichlorobenzene	146	9.003	8.996	(1.003)	1861	0.05248	0.05248(M)
11	Benzyl alcohol	79	9.244	9.236	(1.030)	15216	0.77451	0.7745
12	1,2-Dichlorobenzene	146	9.352	9.353	(1.042)	782	0.02260	0.02260
13	2-Methylphenol	108	9.477	9.461	(1.056)	1548	0.05630	0.05630
15	4-Methylphenol	108	9.740	9.733	(1.086)	25116	0.89567	0.8957
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.779	10.763	(0.943)	1599	0.05267	0.05267
24	Benzoic acid	105	10.915	10.924	(0.955)	27696	1.95413	1.954
26	1,2,4-Trichlorobenzene	180	11.350	11.342	(0.993)	1002	0.03521	0.03521(M)
* 27	Naphthalene-d8	136	11.434	11.427	(1.000)	345632	4.00000	
30	Hexachlorobutadiene	225	11.828	11.829	(1.034)	224	0.01442	0.01442(M)
39	Dimethylphthalate	163	14.522	14.514	(0.967)	2596	0.06904	0.06904
* 42	Acenaphthene-d10	162	15.017	15.009	(1.000)	161330	4.00000	
50	Diethylphthalate	149	15.968	15.960	(1.063)	8381	0.14800	0.1480(M)
54	N-Nitrosodiphenylamine	169	16.369	16.346	(0.907)	3116	0.06241	0.06241(MH)
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.783	17.768	(0.986)	308	0.04167	0.04167(M)
*	59 Phenanthrene-d10	188	18.038	18.023	(1.000)	302095	4.00000	
$	66 Terphenyl-d14	244	21.195	21.164	(0.918)	230516	4.69401	4.694(R)
	67 Butylbenzylphthalate	149	22.108	22.101	(0.957)	6172	0.18593	0.1859(M)
*	69 Chrysene-d12	240	23.099	23.069	(1.000)	221246	4.00000	
*	77 Perylene-d12	264	25.670	25.631	(1.000)	188691	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.234	28.188	(1.100)	6305	0.11923	0.1192
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Report Date: 09-Feb-2023 15:00

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020747S.D
Lab Smp Id: 22L0459-07
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	87825	-28.94
27 Naphthalene-d8	454738	227369	909476	345632	-23.99
42 Acenaphthene-d10	223117	111559	446234	161330	-27.69
59 Phenanthrene-d10	408770	204385	817540	302095	-26.10
69 Chrysene-d12	339328	169664	678656	221246	-34.80
77 Perylene-d12	382671	191336	765342	188691	-50.69 <-

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	-0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	0.07
42 Acenaphthene-d10	15.01	14.51	15.51	15.02	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.04	0.08
69 Chrysene-d12	23.07	22.57	23.57	23.10	0.13
77 Perylene-d12	25.63	25.13	26.13	25.67	0.15

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020747S.D

Lab ID: 22L0459-07
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 16:58

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

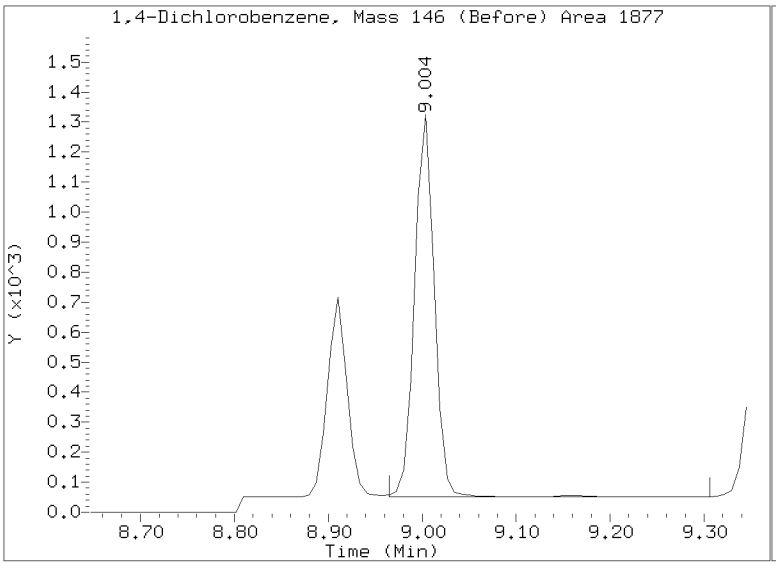
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

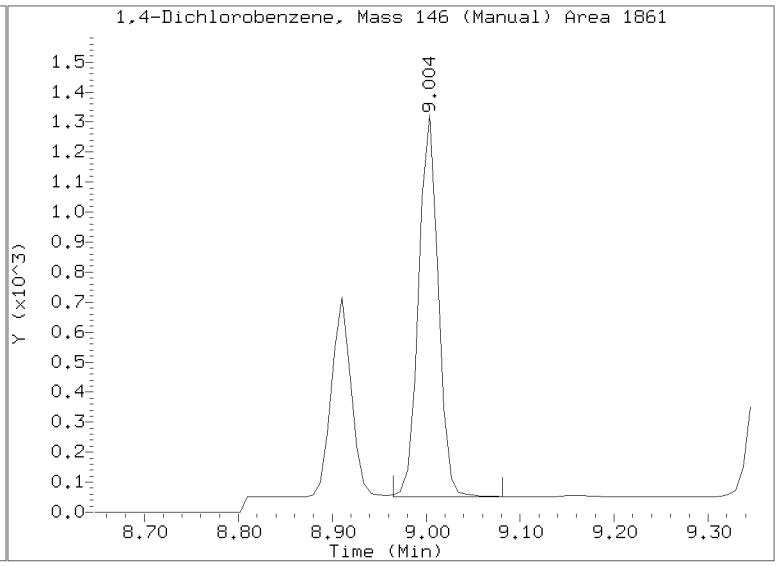
Exception: 1,2,4-Trichlorobenzene 0.0010

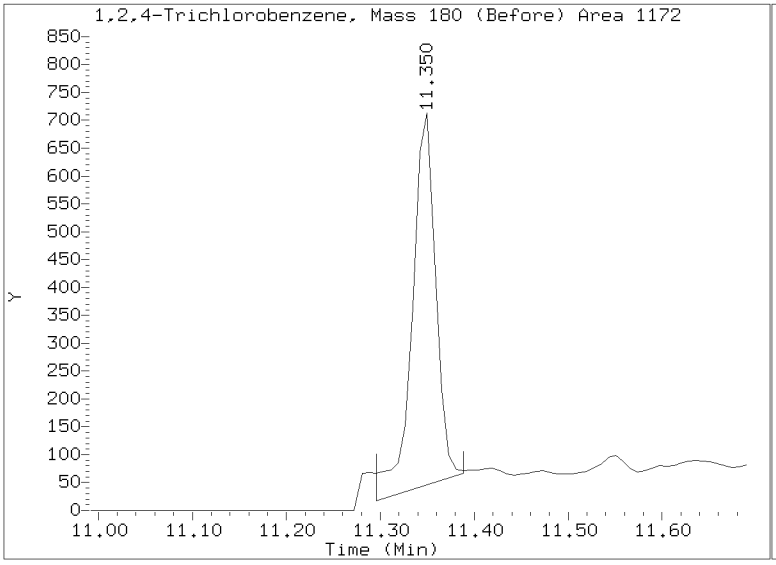
* Only compounds listed in the work order have been verified by the analyst *

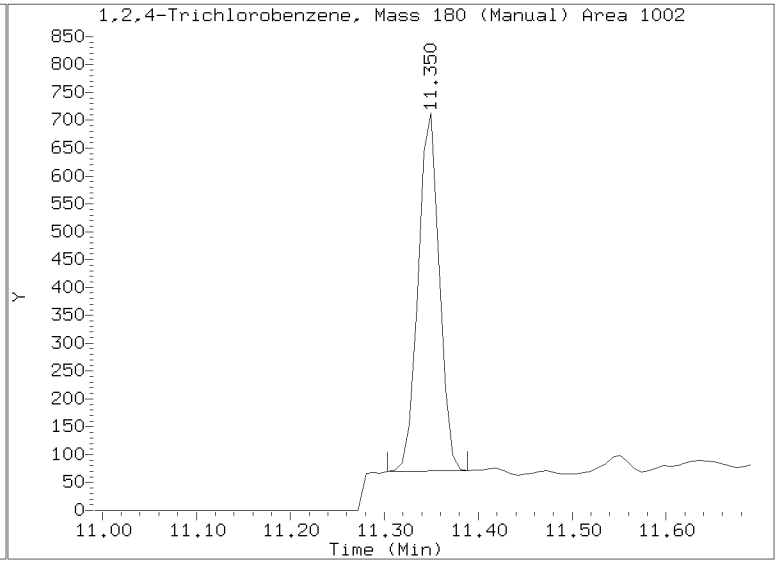
Quant Ion Manual Peak Adjustment Report

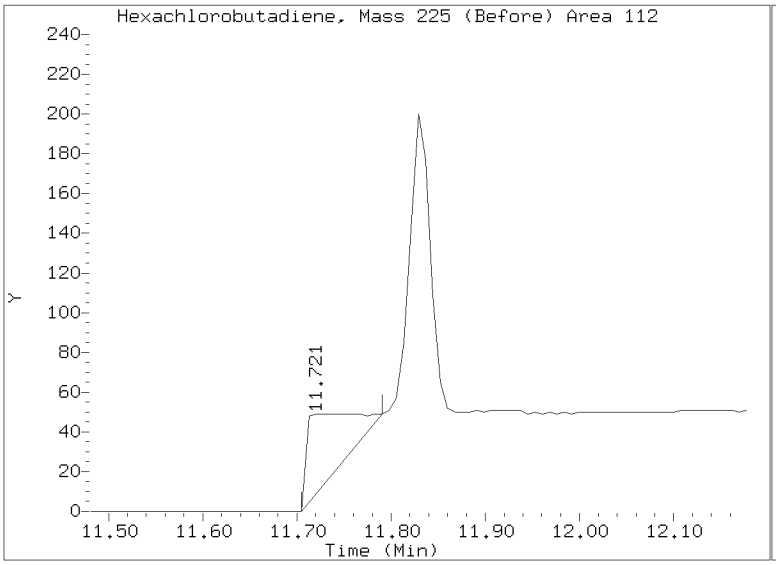
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020747S.D
Injection Date: 08-FEB-2023 16:58
Lab ID:22L0459-07 Client ID:
Report Date: 02/09/2023 15:00

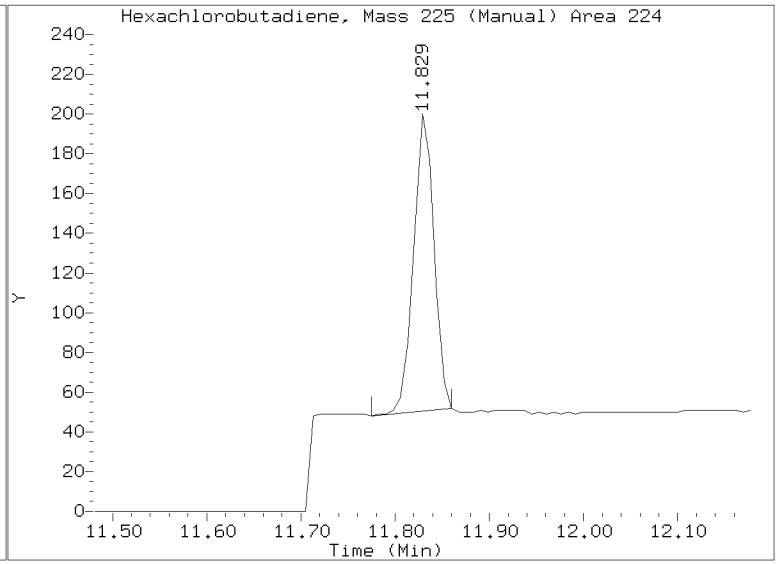






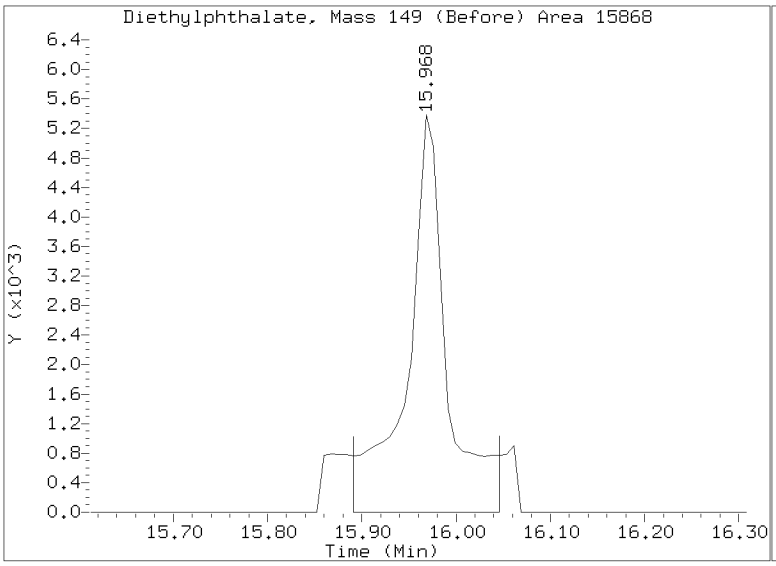


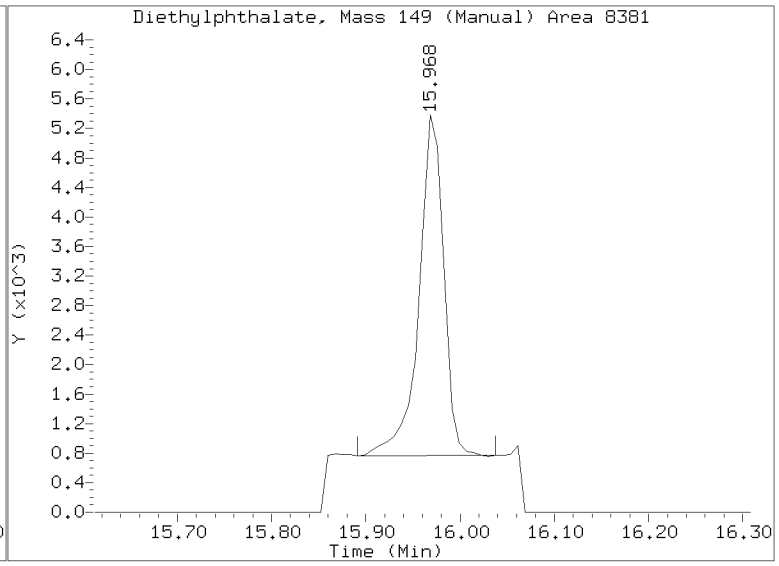


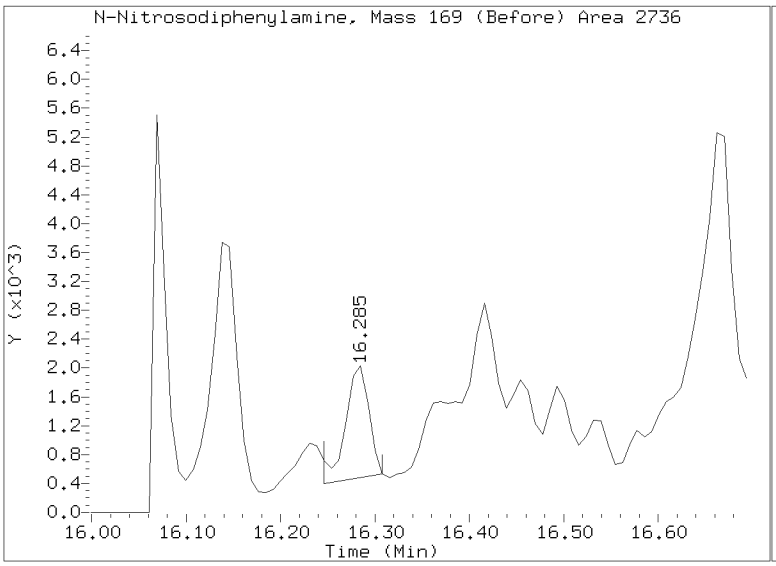


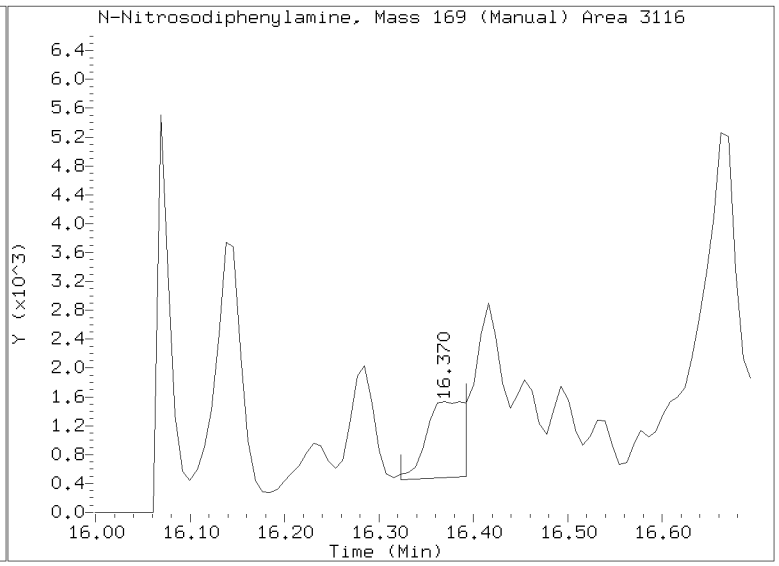
Quant Ion Manual Peak Adjustment Report

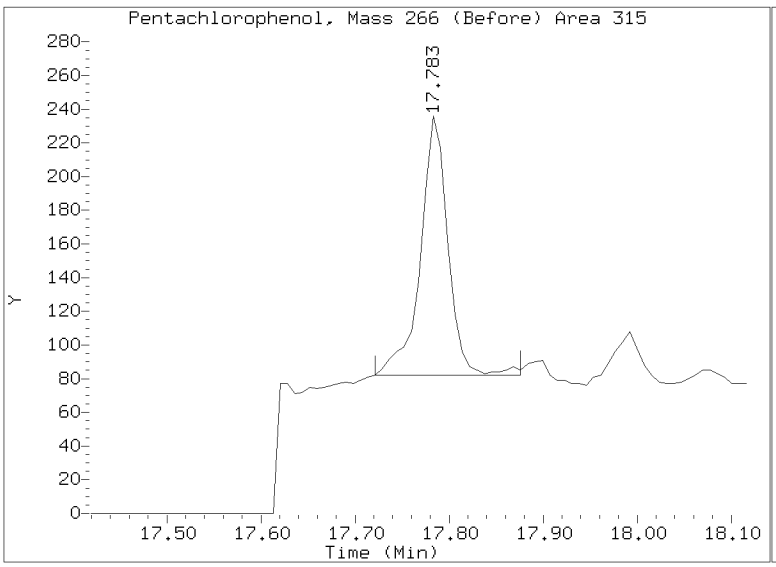
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020747S.D
Injection Date: 08-FEB-2023 16:58
Lab ID:22L0459-07 Client ID:
Report Date: 02/09/2023 15:00

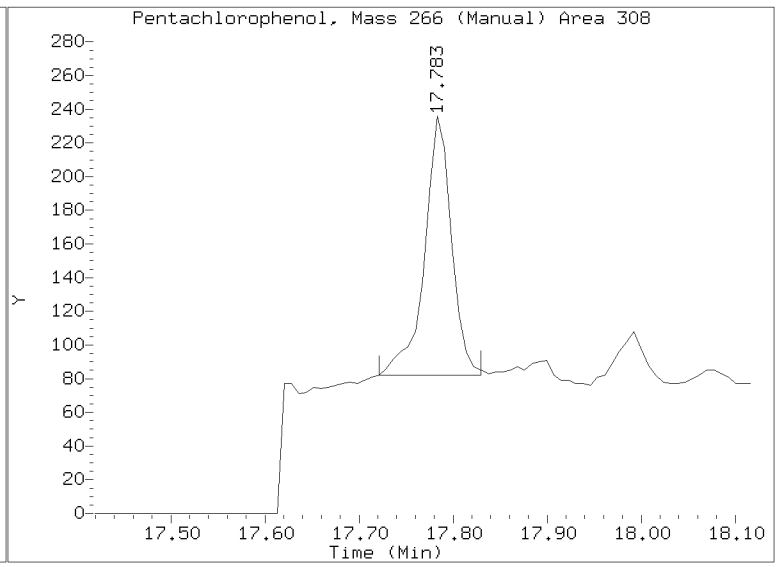












Quant Ion Manual Peak Adjustment Report

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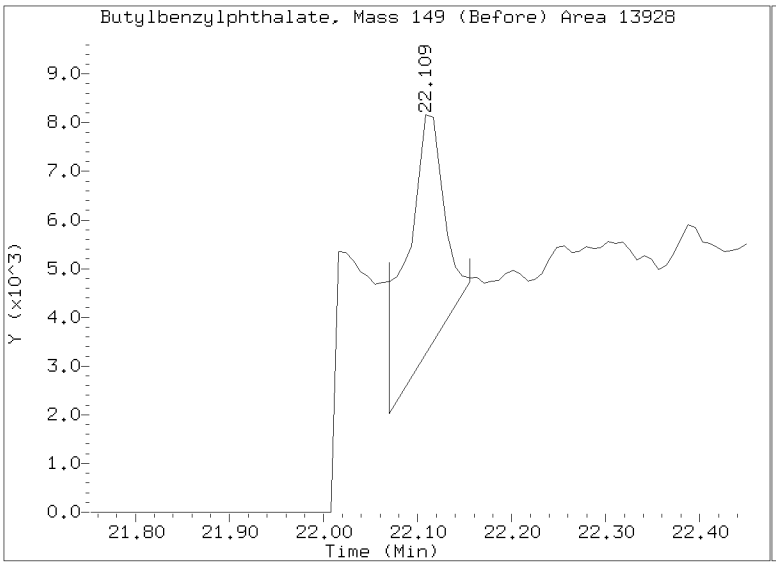
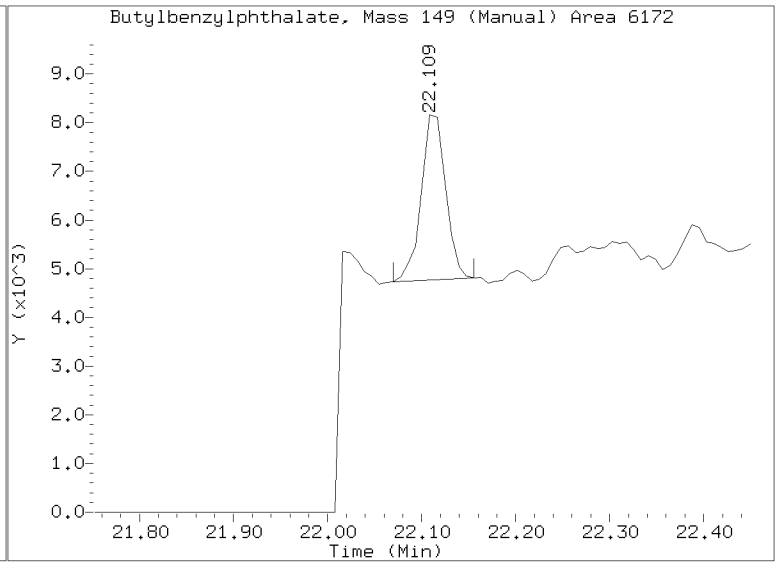
Injection Date: 08-FEB-2023 16:58
Lab ID:22L0459-07 Client ID:
Report Date: 02/09/2023 15:00





PREPARATION BATCH SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLA0064 Batch Matrix: Solid
Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1123B	22L0459-01	NT1023020739S.D	01/05/23 16:13	
LDW23-SC1053C	22L0459-02	NT1023020742S.D	01/05/23 16:13	
LDW23-SC1039C	22L0459-03	NT1023020743S.D	01/05/23 16:13	
LDW23-SC1007B	22L0459-04	NT1023020744S.D	01/05/23 16:13	
LDW23-SC1002C	22L0459-05	NT1023020745S.D	01/05/23 16:13	
LDW23-SC1070B	22L0459-06	NT1023020746S.D	01/05/23 16:13	
LDW23-SC1091B	22L0459-07	NT1023020747S.D	01/05/23 16:13	
Blank	BLA0064-BLK2	NT1023020736S.D	01/05/23 16:13	
LCS	BLA0064-BS2	NT1023020737S.D	01/05/23 16:13	
LCS Dup	BLA0064-BSD2	NT1023020738S.D	01/05/23 16:13	
LDW23-SC1123B	BLA0064-MS2	NT1023020740S.D	01/05/23 16:13	
LDW23-SC1123B	BLA0064-MSD2	NT1023020741S.D	01/05/23 16:13	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0064

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)
8270E-SIM Dual Scan SVOC in Solid (Version:AOC4 List)

WO Comments
22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Analysis: 8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf)

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 (2) 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0459-01 A	56.6	(17.66) 17.66	(1:1)	1mL	1	0.5	
22L0459-02 A	57.9	(17.28) 17.31	(1:1)	1mL	1	0.5	
22L0459-03 A	55.0	(18.18) 18.19	(1:1)	1mL	1	0.5	
22L0459-04 A	56.4	(17.75) 17.80	(1:1)	1mL	1	0.5	
22L0459-05 A	54.6	(18.32) 18.35	(1:1)	1mL	1	0.5	
22L0459-06 A	52.4	(19.10) 19.11	(1:1)	1mL	1	0.5	
22L0459-07 A	61.1	(16.36) 16.38	(1:1)	1mL	1	0.5	

Analysis: 8270E-SIM Dual Scan SVOC

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 (2) 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0459-01 A	56.6	(17.66) 17.66	(1:1)	1mL	1	0.5	
22L0459-02 A	57.9	(17.28) 17.31	(1:1)	1mL	1	0.5	
22L0459-03 A	55.0	(18.18) 18.19	(1:1)	1mL	1	0.5	
22L0459-04 A	56.4	(17.75) 17.80	(1:1)	1mL	1	0.5	
22L0459-05 A	54.6	(18.32) 18.35	(1:1)	1mL	1	0.5	
22L0459-06 A	52.4	(19.10) 19.11	(1:1)	1mL	1	0.5	
22L0459-07 A	61.1	(16.36) 16.38	(1:1)	1mL	1	0.5	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 (2) 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLA0064-BLK1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLA0064-BS1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLA0064-BSD1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLA0064-MS1		() 17.66 17.66	(1:1)	1mL	1	0.5	Use 22L0459-01
BLA0064-MSD1		() 17.66 17.66	(1:1)	1mL	1	0.5	Use 22L0459-01
~~BLA0064-SRM1~~	~~100.0~~	~~(10.00) 10.0~~	(1:1)	1mL	1	0.5	~~Use K000591~~

R 01/04/23

See notes Thu 1/11/23

CL 1/5/2023 — Client ID verified By / Date

VRh 1/13/23 — Preparation Reviewed By / Date

01/05/23 16:17 — Extraction Date and Time

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0064

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)
8270E-SIM Dual Scan SVOC in Solid (Version:AOC4 List)

Matrix: Solid **Date Prepared:** 1/5/2023 **Balance ID:** B139298002 **Set Up By:** 01/04/23

WO Comments

22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
39	Benzidine Spike
QLS 14	QLS Spike (Freezer)

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0064

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)
8270E-SIM Dual Scan SVOC in Solid (Version:AOC4 List)

WO Comments
22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps | **Reagents Used**

Prep Steps	Station/Reagent	Standard ID
Microwave 1 2 3 CT 01/06/23 Analyst/Date	**Microwave** Analyst: CT Date: 01/06/23	
	Anhydrous Sodium Sulfate	KO11763
	1:1 Methylene Chloride/Acetone	KO11547
	Methylene Chloride	KO10561
	Pre-Deactivated Glass Wool	KO10195
Pre-GPC KD 100°C Exchange to Hexane (add 10 mL to KD) 0 2 4 **5** 6 CP 1/10/23 Analyst/Date	**Pre GPC KD** Analyst: CP Date: 1/10/23	
	Pre-Deactivated Glass Wool	
	Anhydrous Sodium Sulfate	
	Methylene Chloride	K005942
	Hexane	KO11373
TurboVap Pre GPC 1 2 3 **4** 5 TWC 1/11/23 Analyst/Date	**GPC Filter Prep** Analyst: TWC Date: 1/11/23	
Post GPC KD 80-85°C 0 2 4 **5** 6 NKB 1/13/23 Analyst/Date	Methylene Chloride	K005942
	GPC Analyst: TWC Date: 1/11/23	
	Methylene Chloride	K005942
	GPC Calibration File	CLK0035-GPC2
TurboVap 1 2 3 **4** 5 NKB 1/13/23 Analyst/Date	**Post GPC KD** Analyst: NKB Date: 1/13/23	
	Methylene Chloride	K005942
Water Wash NKB 1/13/23 Analyst/Date	**Vialing** Analyst: NKB Date: 1/13/23	
	Methylene Chloride	K005942

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 100/150µg/mL	A K010466 Exp Date: 5/9/2023	50µL	CT	✓
Full List Spike (Freezer) 100µg/mL	7 K010225 (V) Exp KO71297 Date: 8/31/2023	50µL	CT	✓
Base Spike 200µg/mL	56 K010225 (V) Exp KO43759 Date: 4/19/2023	50µL	CT	✓
Acid Spike 100/200µg/mL	38 K010225 (V) Exp KO43764 Date: 4/19/2023	50µL	CT	✓

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0064

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:AOC4 List)
8270E-SIM Dual Scan SVOC in Solid (Version:AOC4 List)

WO Comments

22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add DCM ONLY to the vessels (until solvent is 3 inches above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 10-15 min in Refridgerator 05. Re-homogenize while cool. 7. Decant DCM into Erienmeyer flask with a funnel containing pre-deactivated glasswool. 8. Rinse with DCM 9. Microwave a 2nd time using 1:1 DCM/ACE. 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with DCM. 11. KD: Add 10 mL Hexane directly to extract in the KD. 12. GPC REQUIRED 100°C water bath (CLP) KD to 5mL. 13. Vialers to take 1:5 Split Pre- GPC. 14. (After GPC): KD at 80°C. 15. TurboVap to 1mL in DCM. 16. WATER WASH REQUIRED: 16a. Vial 1mL of all extracts in 2mL amber vials in DCM. 16b. Add ~0.5mL DI water and vortex for ~5 seconds each. 16c. Centrifuge extracts for 5 minutes at 1500-2000rpm. 16d. Transfer and vial 0.5mL to new 2mL amber vials (Avoiding collecting water in syringe and cleaning syringe with Acetone and DCM between each vial). 17. Archive water wahed vials and deliever new vials to GC Department for analysis. A. Need Total Solids Y / N B. Archive/Freeze Y / N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PSDOA/SVOC Extraction Batch: BLA0064

Total Solids Batch: BKL0664 Work Order(s): 22L0459

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 01-07	CR 12/30/22
[X] Standing Water Decanted (Not shared)= 07	CR 12/30/22
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[X] Previously Frozen = 01-07	CR 12/30/22
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[X] Other Notes/Comments= (Note problems, concerns, corrective actions). TWC 1/11/23 ~~Turbo tube w/ SRM broke and SRM was completely lost - confirmed w/ PM that it was okay to continue on w/ NO SRM~~ Turbo tube w/ SRM broke and extract was lost - PM confirmed to continue on w/o SRM	TWC 1/11/23
[X] Share Samples Y / (N)	CR 12/30/22
[X] Multiple Jars Y / (N)	CR 12/30/22
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-11,11:47:25 PM
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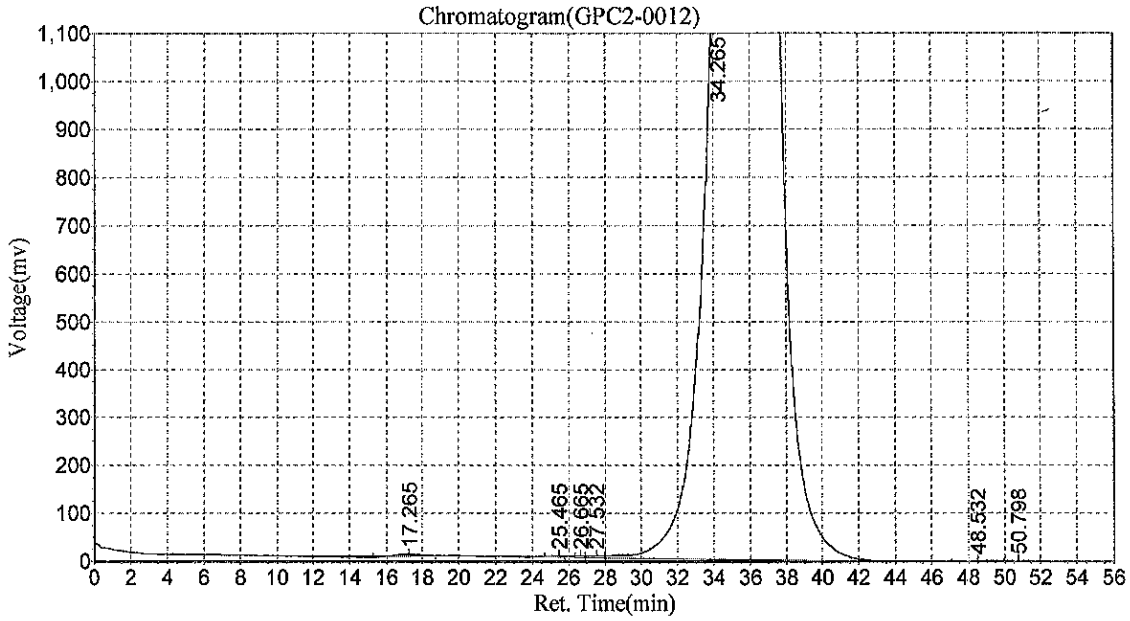
Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
Date/Time2023-01-11,11:47:26 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.265	4124.792	472130.063	0.1141
2		25.465	2737.385	135159.188	0.0327
3		26.665	3543.673	119488.547	0.0289
4		27.532	4396.048	253699.391	0.0613
5		34.265	1370326.500	412558432.000	99.6614
6		48.532	2315.200	255654.484	0.0618
7		50.798	1954.920	165402.453	0.0400
Total			1389398.518	413959966.125	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

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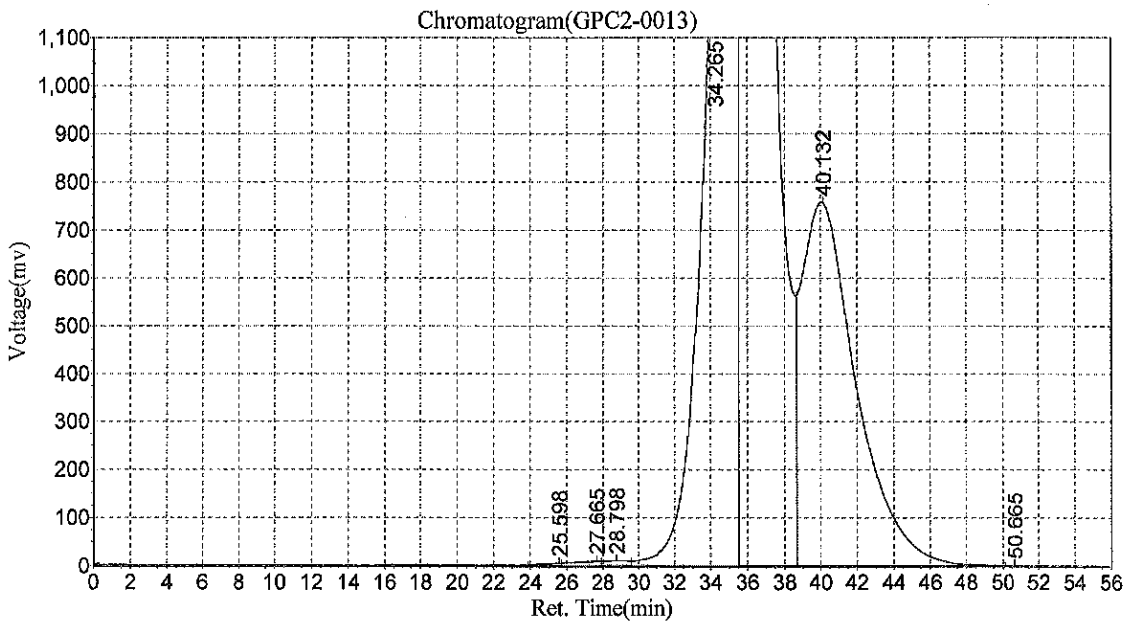
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-12,12:45:09 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		25.598	4900.369	307773.688	0.0885
2		27.665	8696.245	922940.563	0.2654
3		28.798	10413.759	959961.000	0.2760
4		34.265	1373576.125	187233200.000	53.8310
5		40.132	757711.875	158237600.000	45.4945
6		50.665	2190.417	155298.094	0.0446
Total			2157488.790	347816773.344	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

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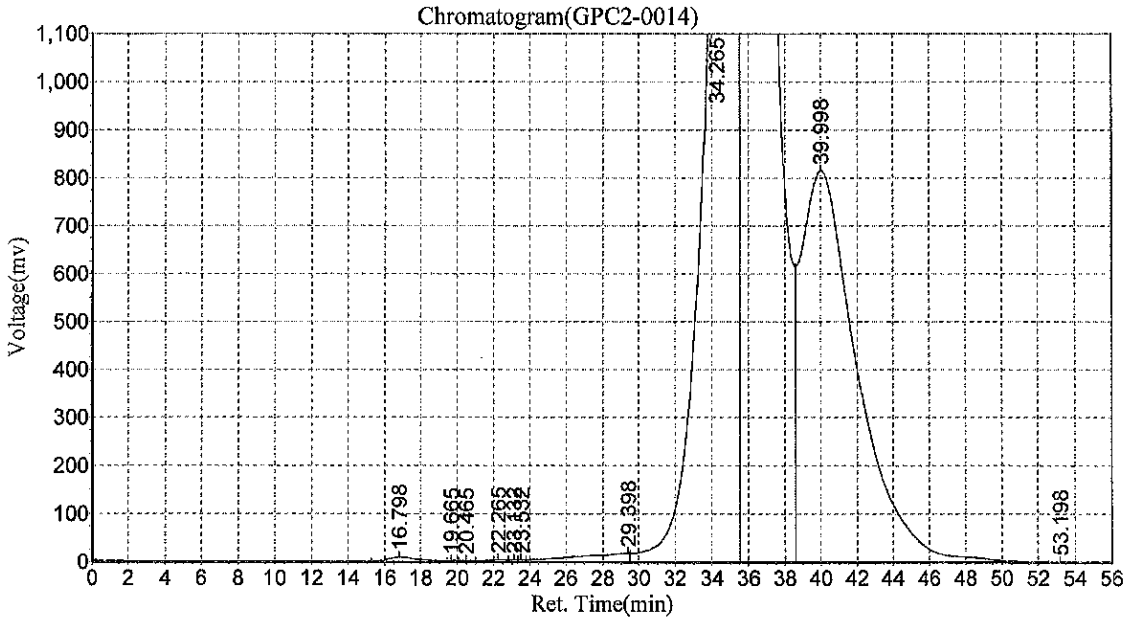

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.798	9936.963	1230275.625	0.3222
2		19.665	3850.095	141855.469	0.0372
3		20.465	3883.993	211823.703	0.0555
4		22.265	5049.262	461390.625	0.1208
5		23.132	5005.650	152564.781	0.0400
6		23.532	5055.599	137628.047	0.0360
7		29.398	18717.846	4192658.000	1.0980
8		34.265	1375307.750	197529008.000	51.7322
9		39.998	815888.000	177638272.000	46.5228
10		53.198	1840.291	134775.625	0.0353
Total			2244535.449	381830251.875	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

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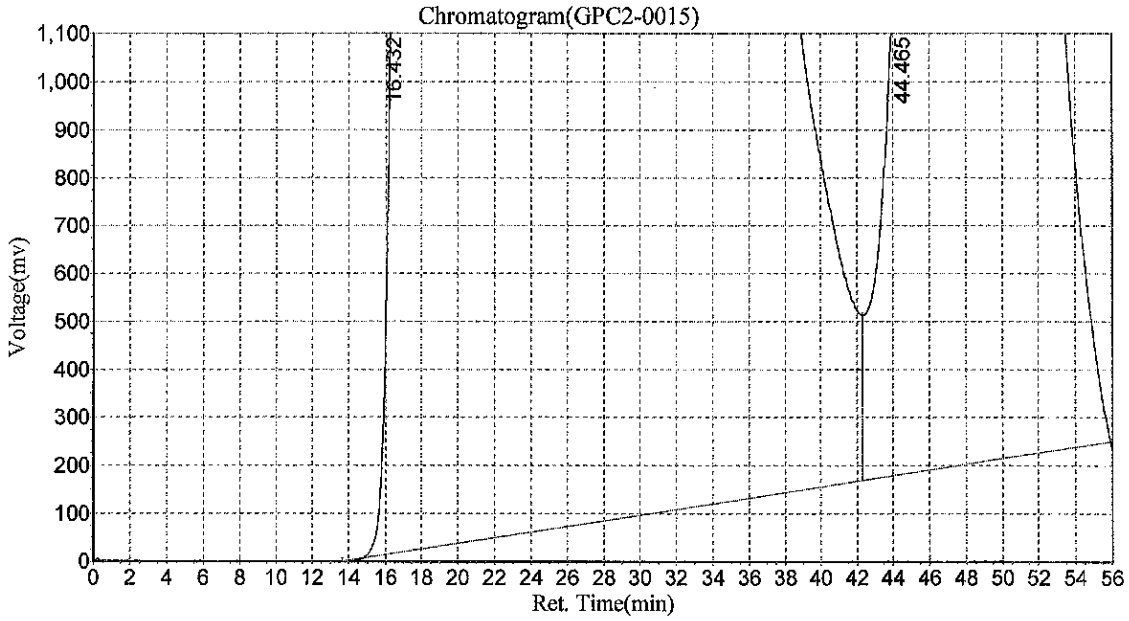

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.432	1362821.250	1869500160.000	70.9798
2		44.465	1193203.500	764346880.000	29.0202
Total			2556024.750	2633847040.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

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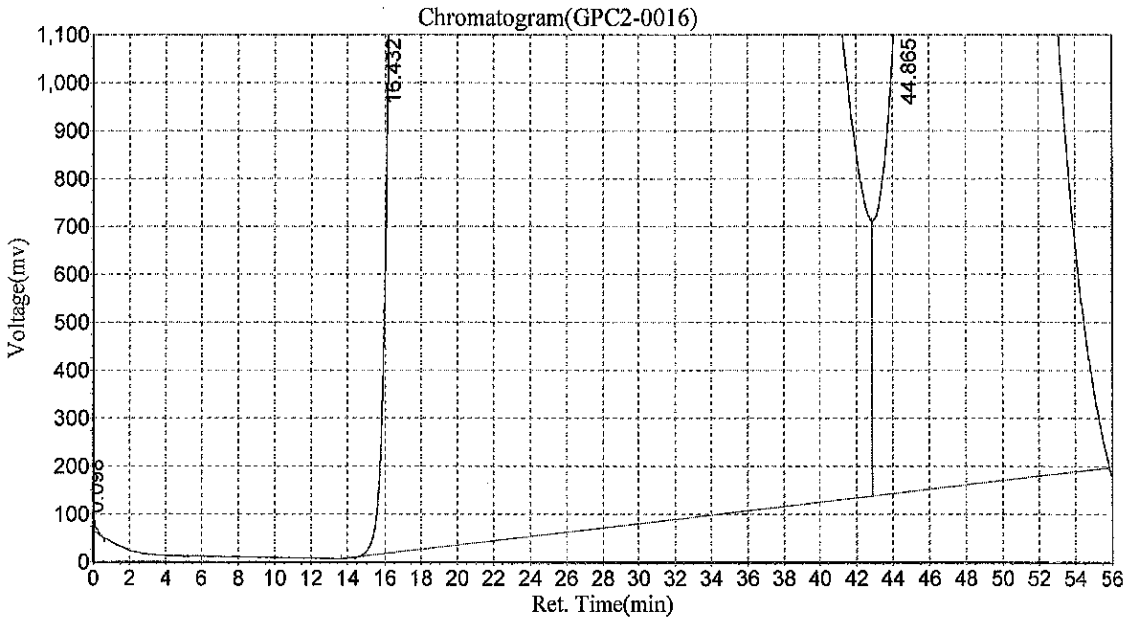
Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
Date/Time2023-01-12,3:38:20 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.098	10223.777	124340.398	0.0045
2		16.432	1359033.250	1988065664.000	72.4609
3		44.865	1225611.750	755449664.000	27.5346
Total			2594868.777	2743639668.398	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

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Analyst£ºTWC
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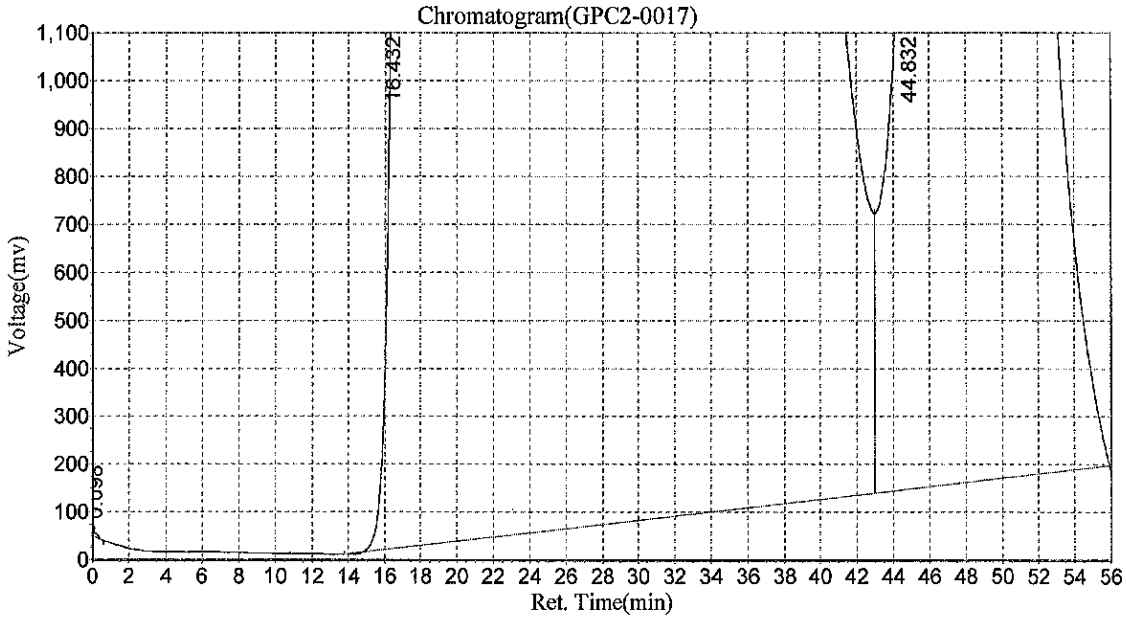

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.098	8264.667	126936.797	0.0046
2		16.432	1356264.250	1976438400.000	72.3643
3		44.832	1227733.375	754667712.000	27.6310
Total			2592262.292	2731233048.797	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

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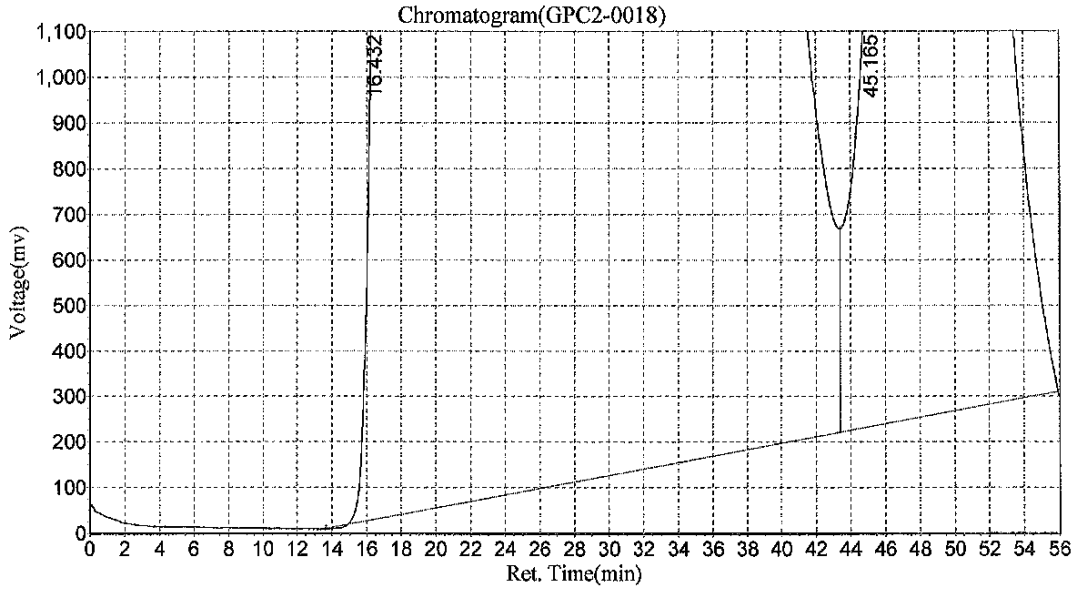
Analyst£°TWC
Date/Time2023-01-12,5:33:46 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.432	1350121.750	1912228096.000	74.0445
2		45.165	1141061.750	670311424.000	25.9555
Total			2491183.500	2582539520.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-12,8:26:53 AM
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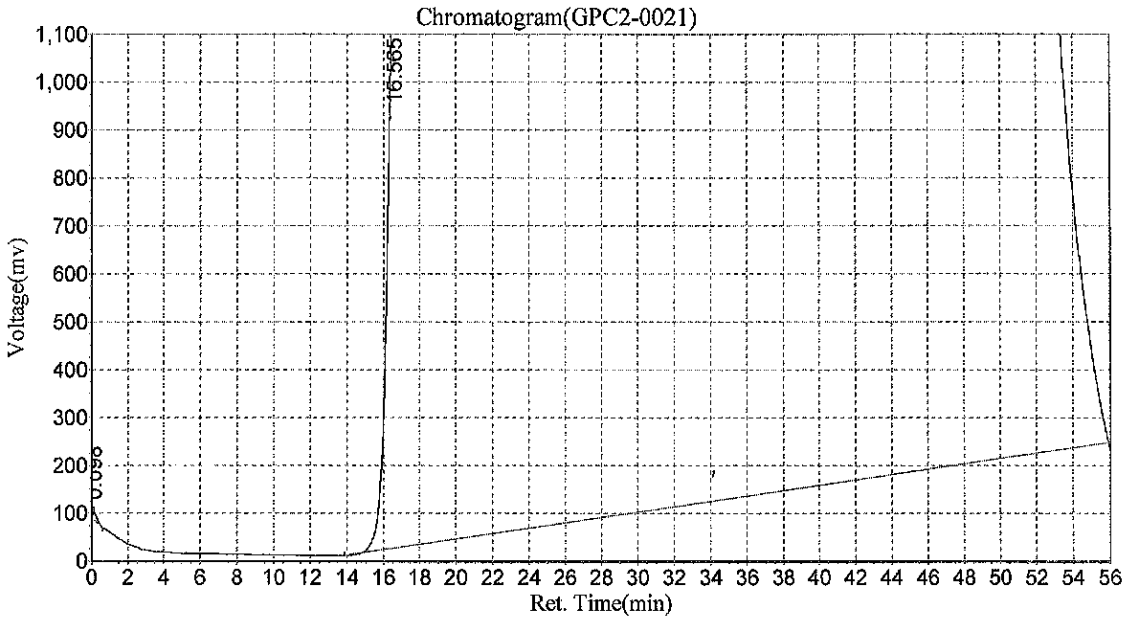
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-12,8:26:54 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.098	13280.111	182083.203	0.0064
2		16.565	1352261.500	2826899968.000	99.9936
Total			1365541.611	2827082051.203	100.000

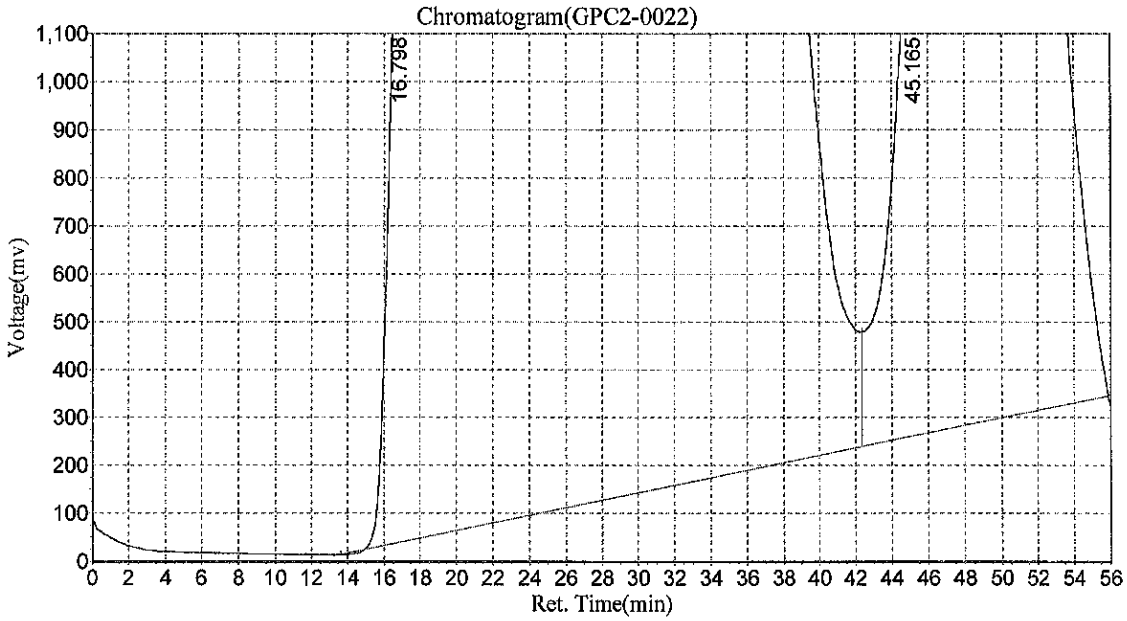
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-12,9:24:34 AM
Data File:c:\n2000\data\gpc2\011123\GPC2-0022
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-12,9:24:36 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.798	1339576.125	1662511104.000	70.8931
2		45.165	1110858.750	682584192.000	29.1069
Total			2450434.875	2345095296.000	100.000

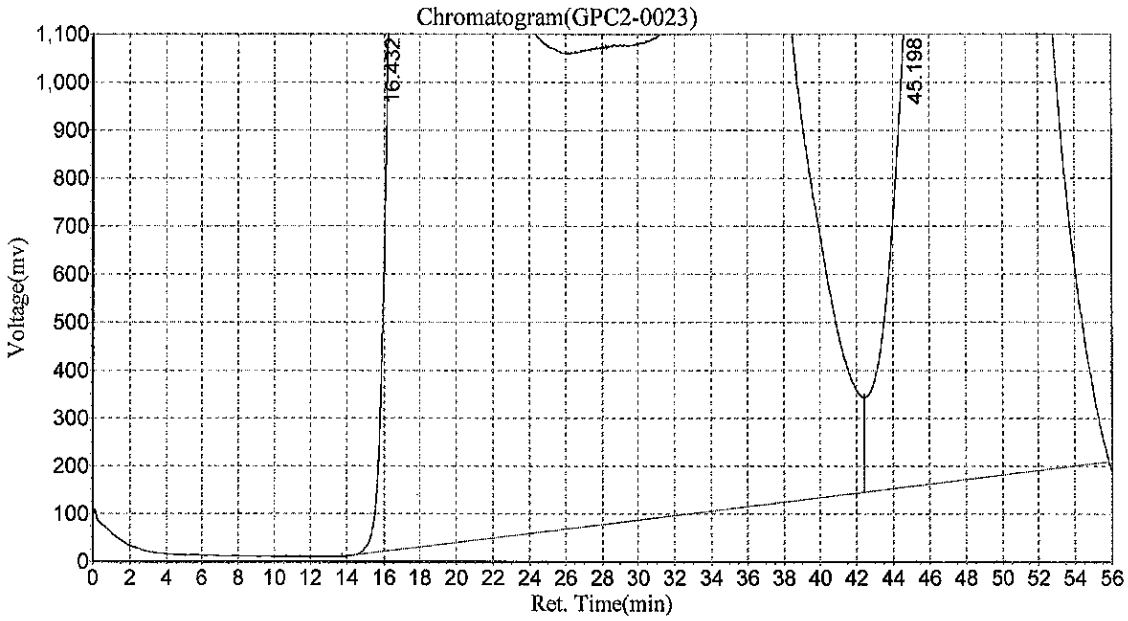
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-12,10:22:18 AM
Data File:c:\n2000\data\gpc2\011123\GPC2-0023
Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
Date/Time2023-01-12,10:22:20 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.432	1356088.750	1670189952.000	70.3528
2		45.198	1214622.250	703830464.000	29.6472
Total			2570711.000	2374020416.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8270E-SIM

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLA0064-BLK2	File ID:	NT1023020736S.D
Sampled:	N/A	Prepared:	01/05/23 16:13	Analyzed:	02/08/23 09:56
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BLA0064	Sequence:	SLB0106	Calibration:	GB00019
Instrument:	NT10	Column:	ZB-5MSi		

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	0.8	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	5.0	U	0.7	5.0
100-51-6	Benzyl Alcohol	1	20.0	U	2.5	20.0
65-85-0	Benzoic acid	1	100	U	13.4	100
105-67-9	2,4-Dimethylphenol	1	20.0	U	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	20.0	U	2.1	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	750.00	564	75.2	27 - 120	
p-Terphenyl-d14	500.00	518	104	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207368.D

Date : 08-FEB-2023 09:56

Client ID:

Instrument: nt10.i

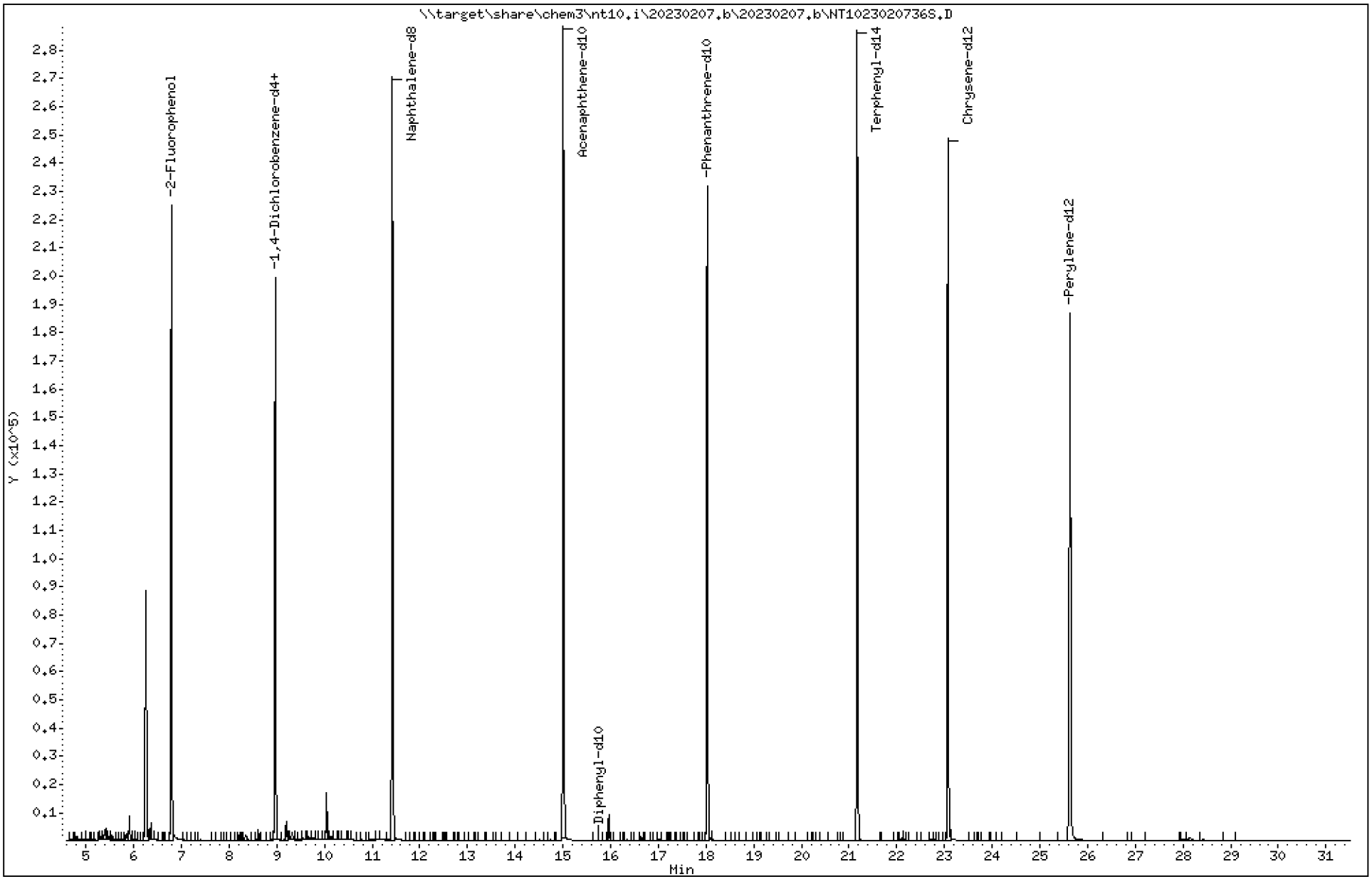
Sample Info: BLA0064-BLK3

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 08-FEB-2023 09:56

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BLK3

Volume Injected (uL): 1.0

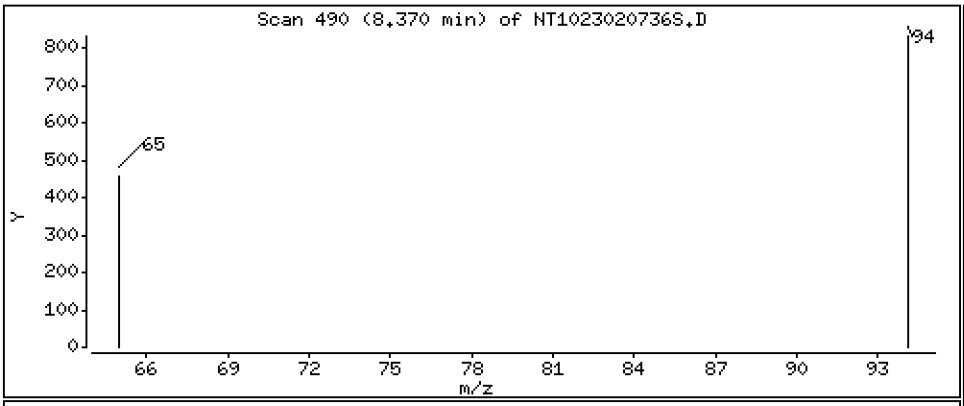
Operator: DSD

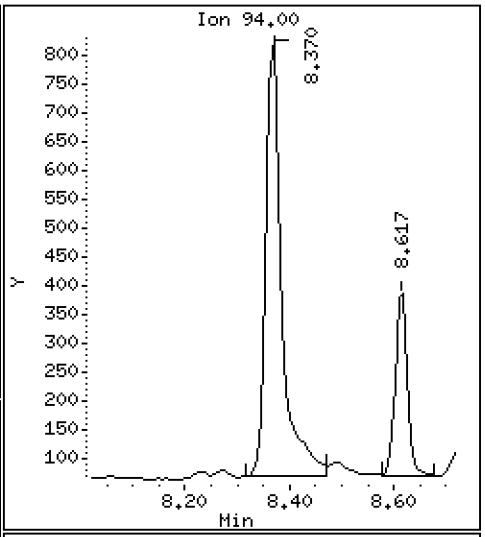
Column phase: ZB-5msi

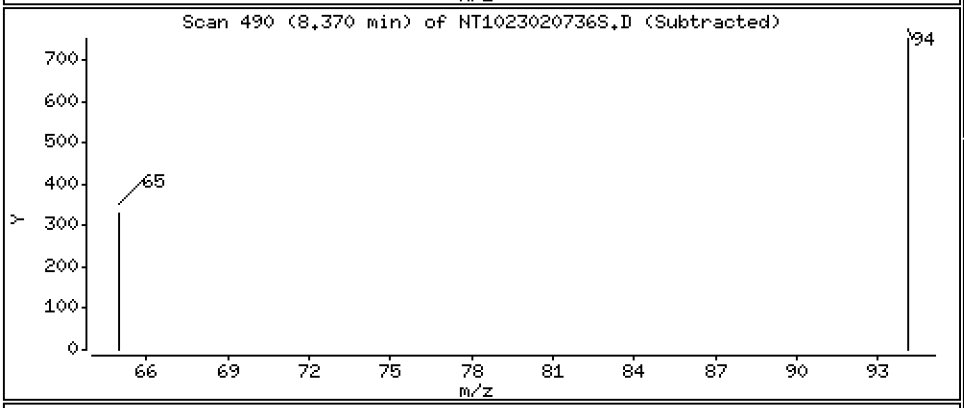
Column diameter: 0.25

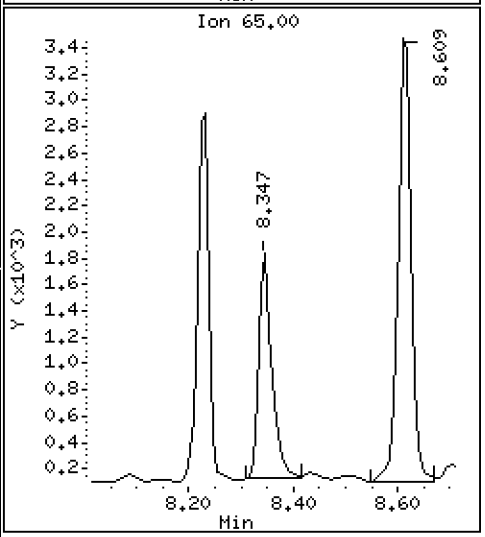
3 Phenol

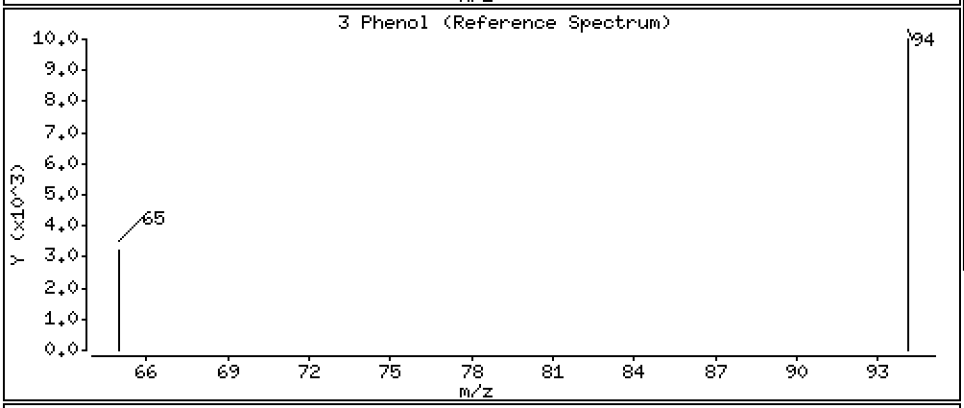
Concentration: 0.02812 ug/L

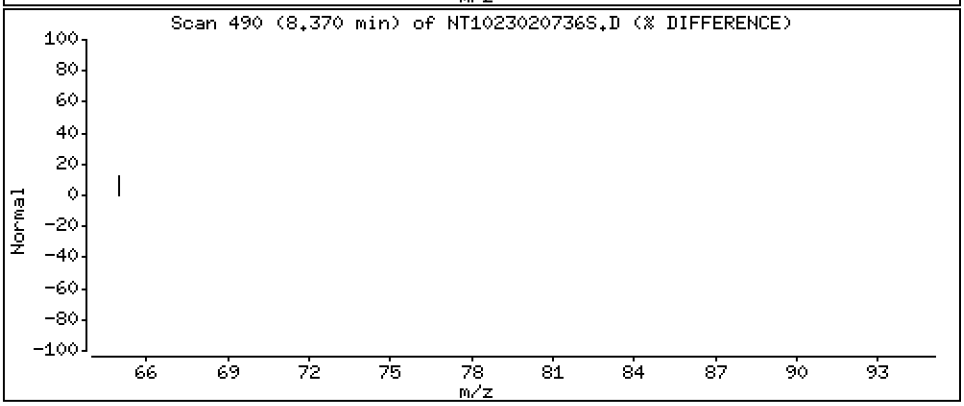












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Date : 08-FEB-2023 09:56

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BLK3

Volume Injected (uL): 1.0

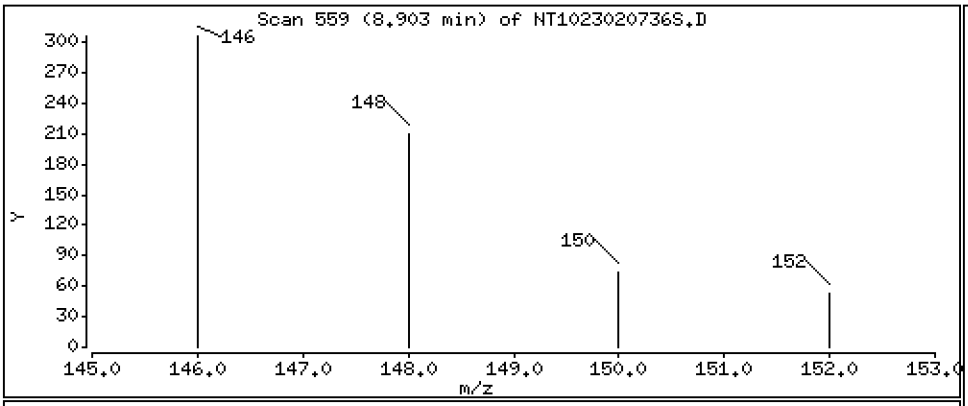
Operator: DSD

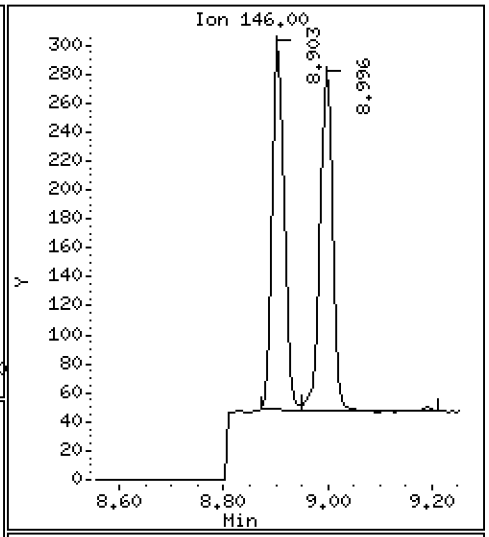
Column phase: ZB-5msi

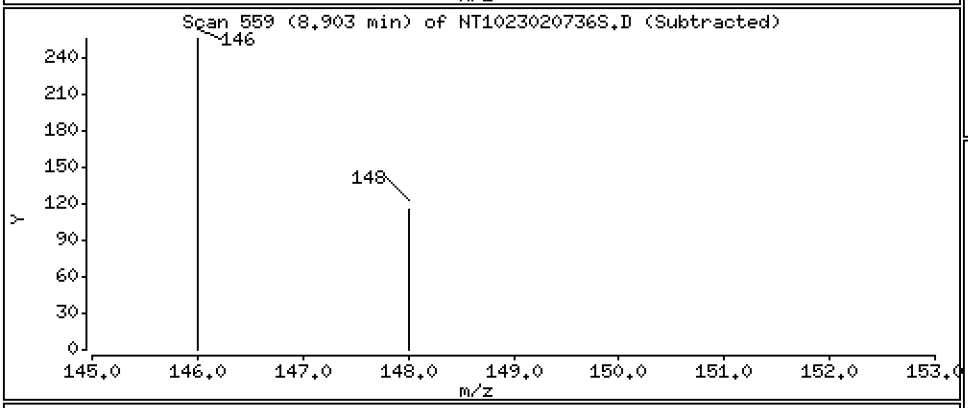
Column diameter: 0.25

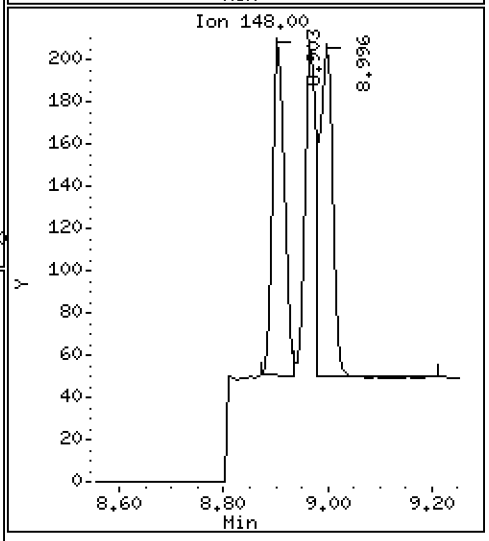
7 1,3-Dichlorobenzene

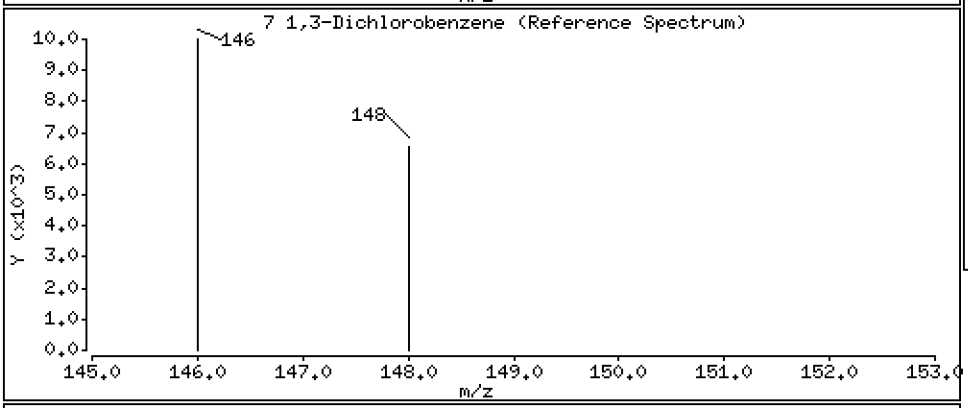
Concentration: 0.007868 ug/L

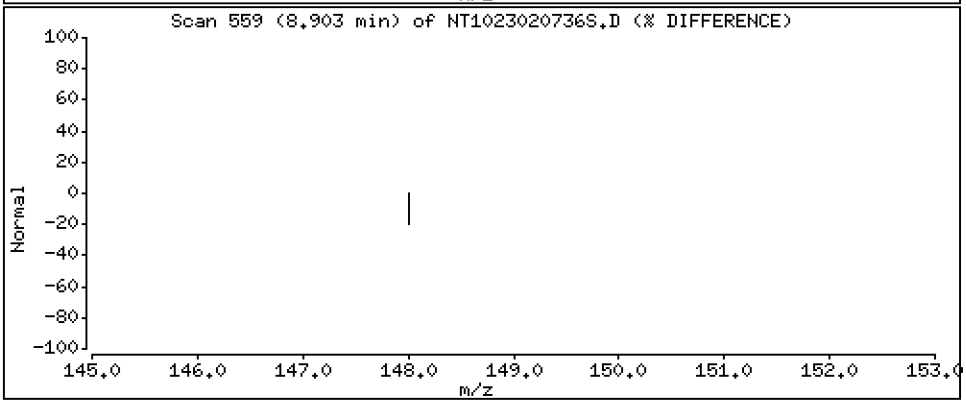












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Date : 08-FEB-2023 09:56

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BLK3

Volume Injected (uL): 1.0

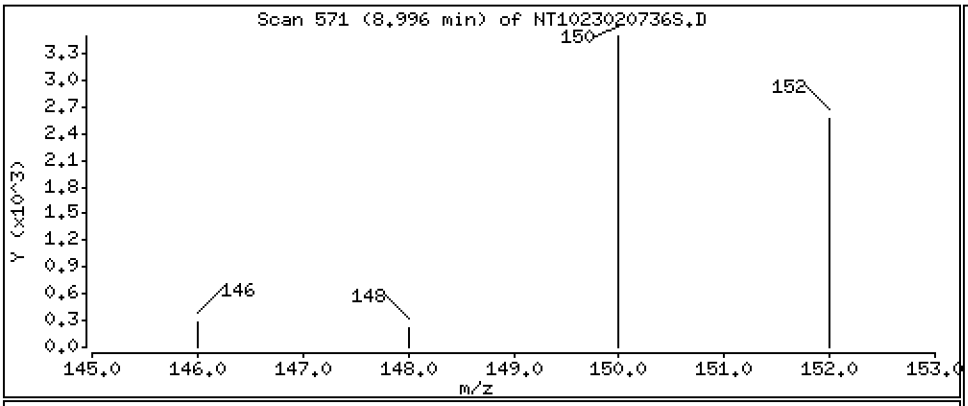
Operator: DSD

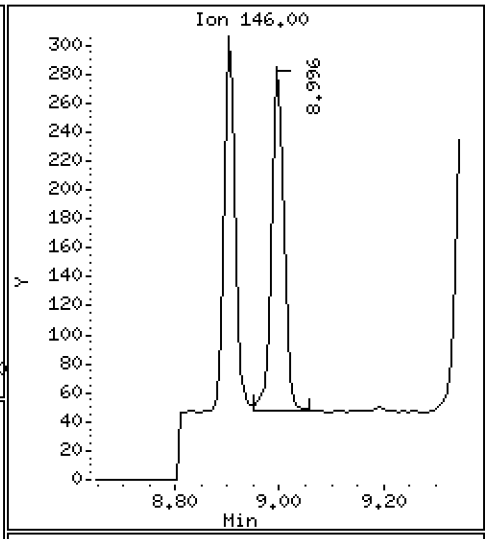
Column phase: ZB-5msi

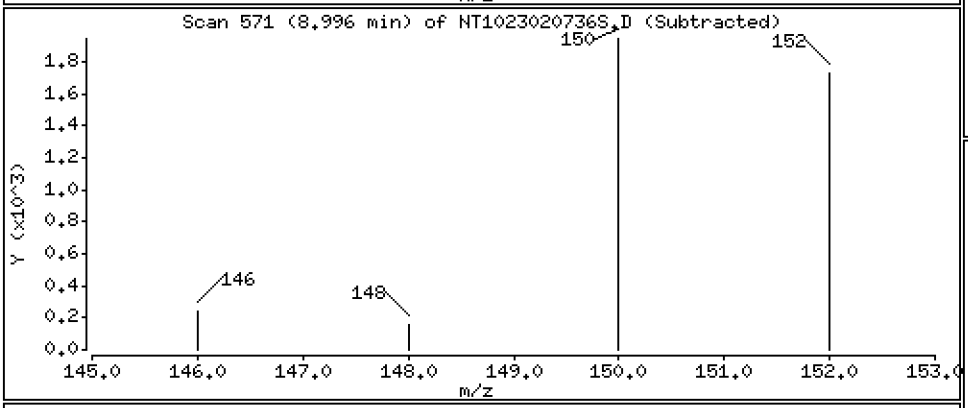
Column diameter: 0.25

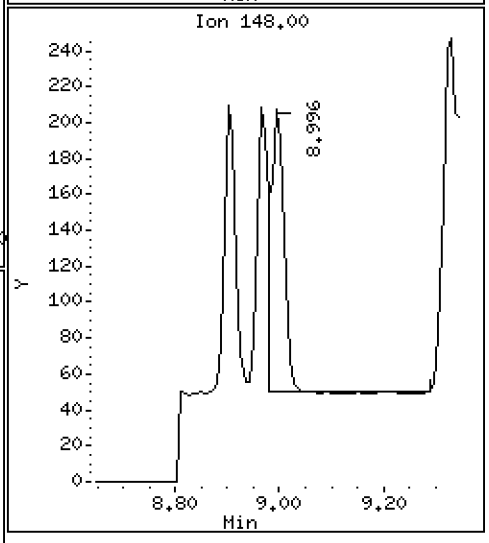
9 1,4-Dichlorobenzene

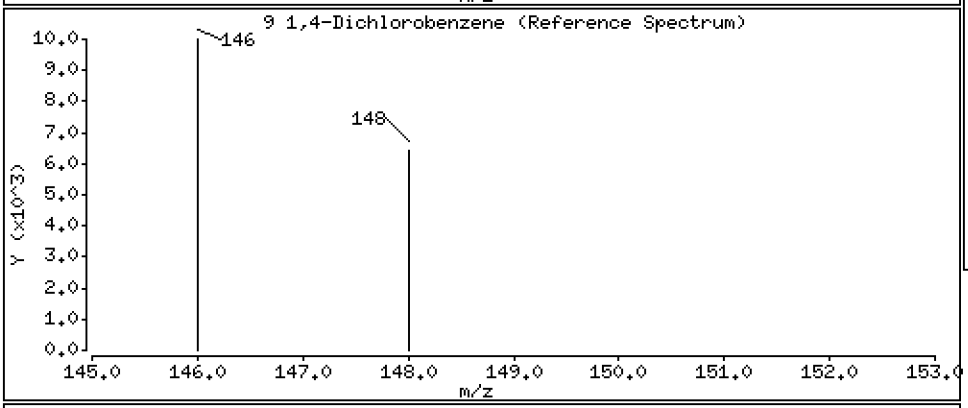
Concentration: 0.007698 ug/L

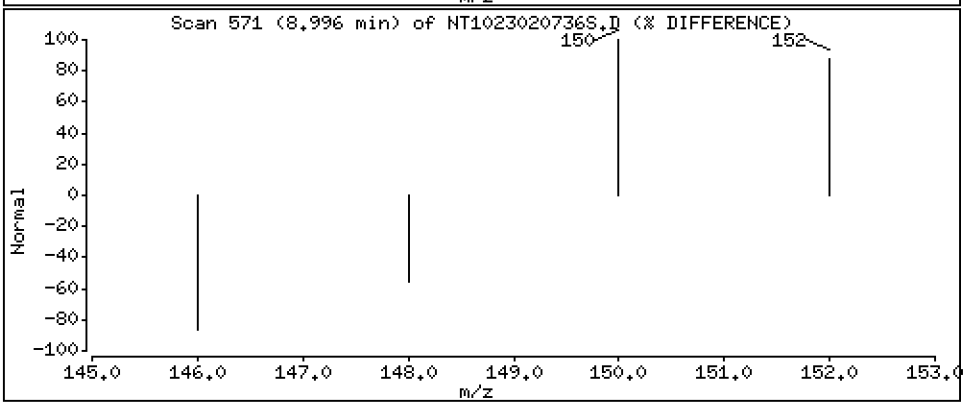












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Date : 08-FEB-2023 09:56

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BLK3

Volume Injected (uL): 1.0

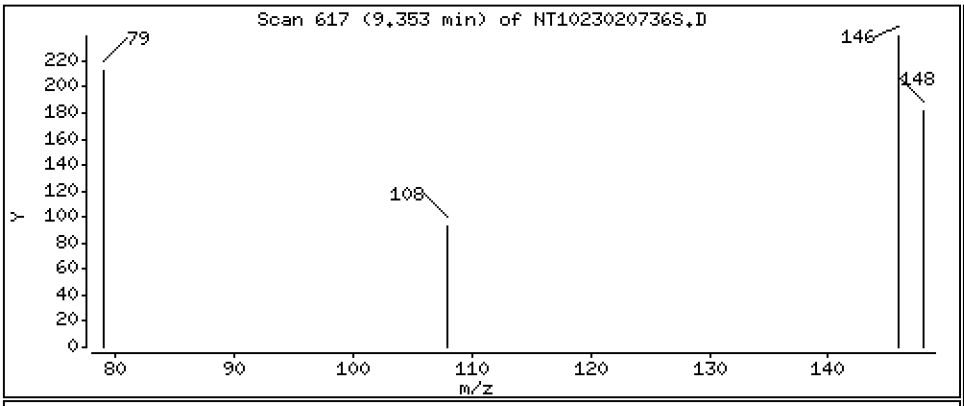
Operator: DSD

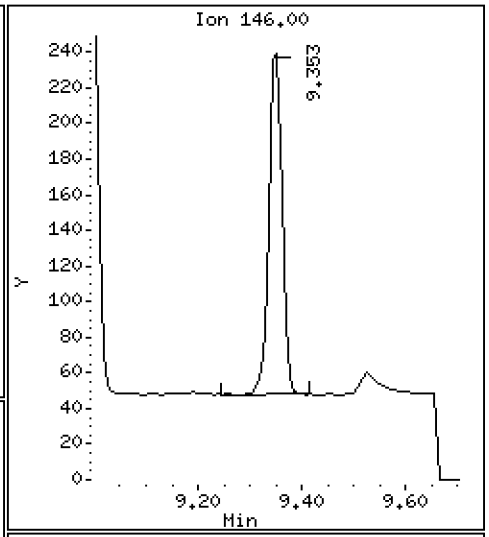
Column phase: ZB-5msi

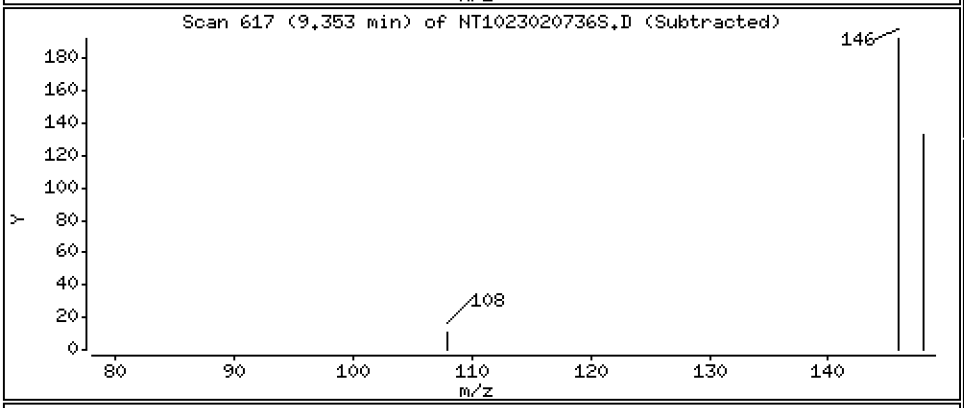
Column diameter: 0.25

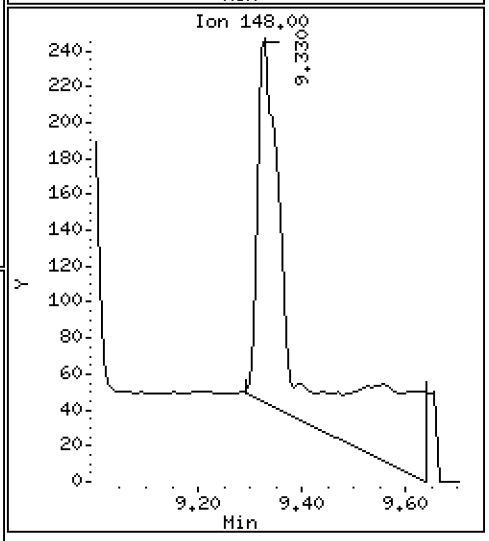
12 1,2-Dichlorobenzene

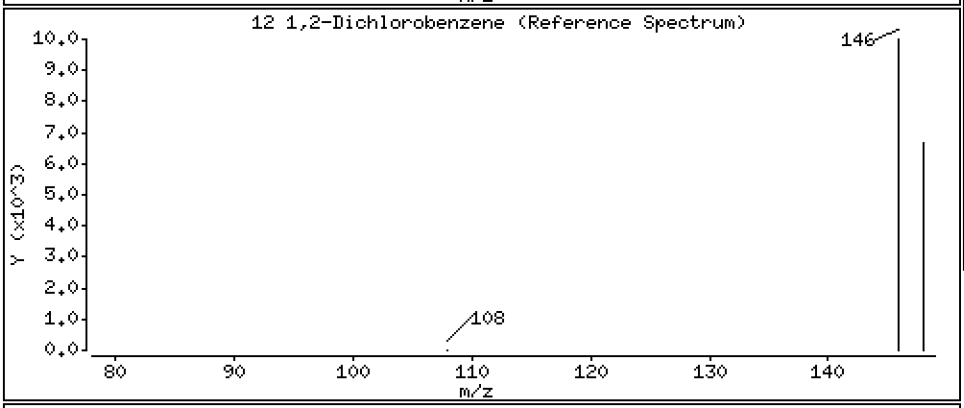
Concentration: 0.006853 ug/L

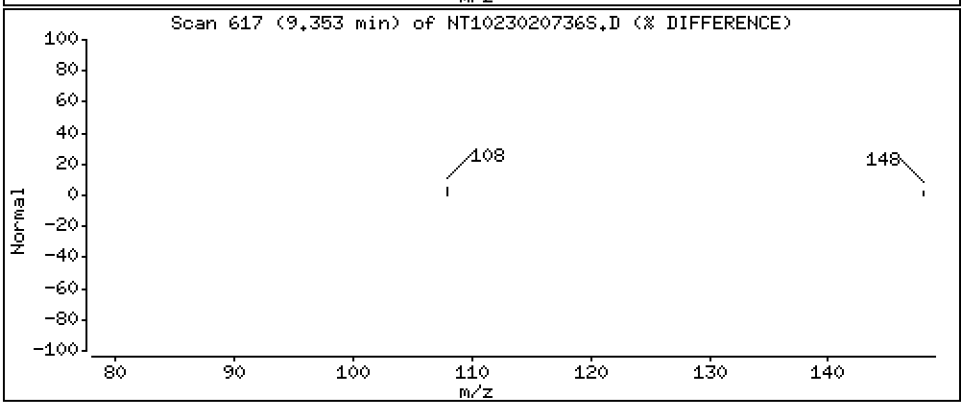












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Date : 08-FEB-2023 09:56

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BLK3

Volume Injected (uL): 1.0

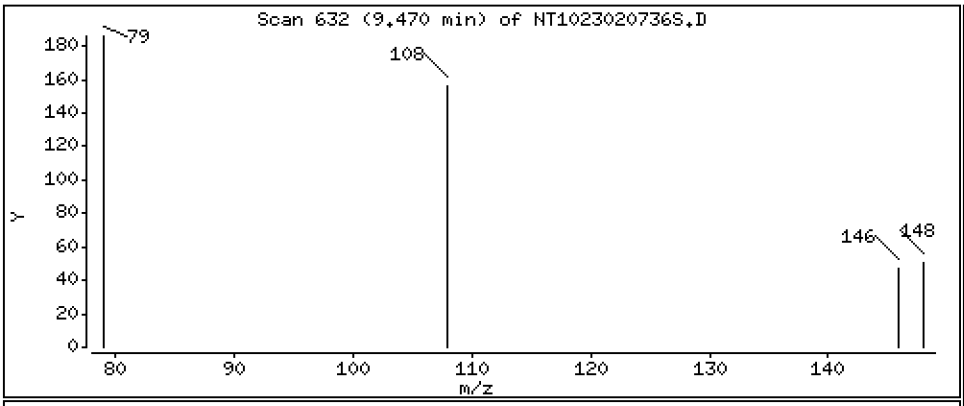
Operator: DSD

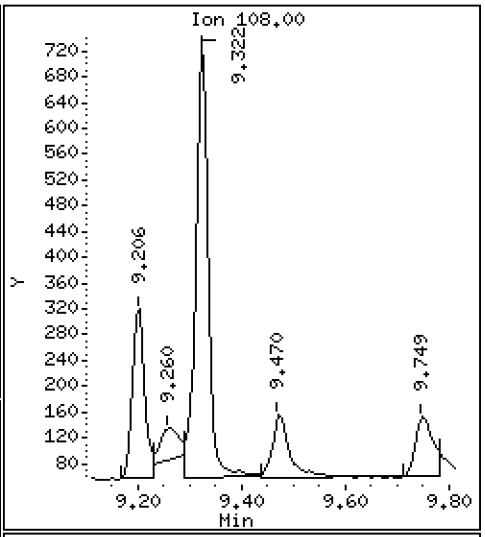
Column phase: ZB-5msi

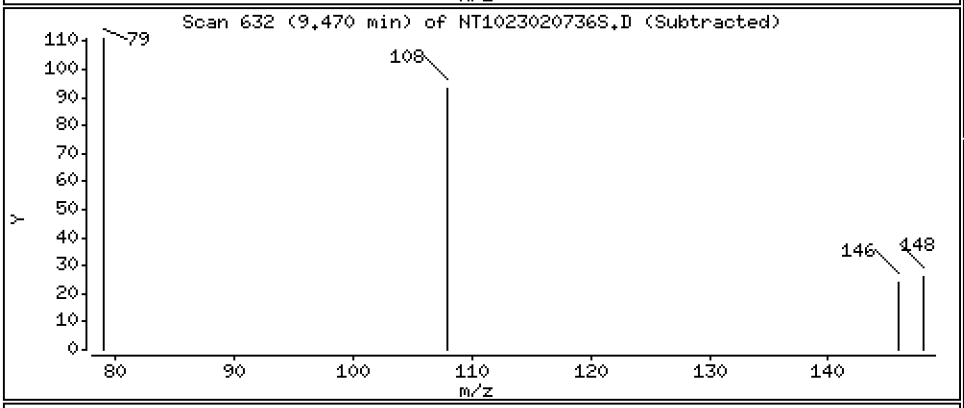
Column diameter: 0.25

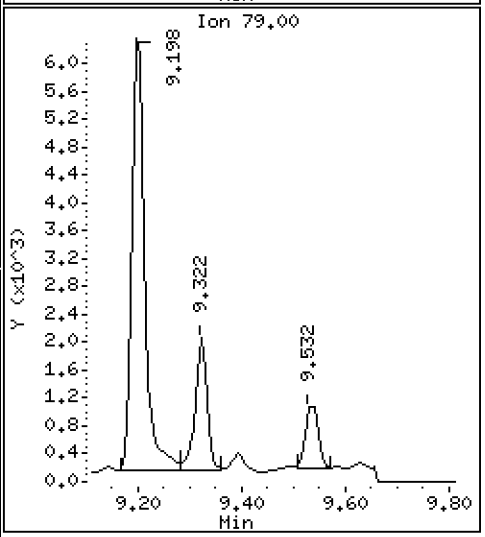
13 2-Methylphenol

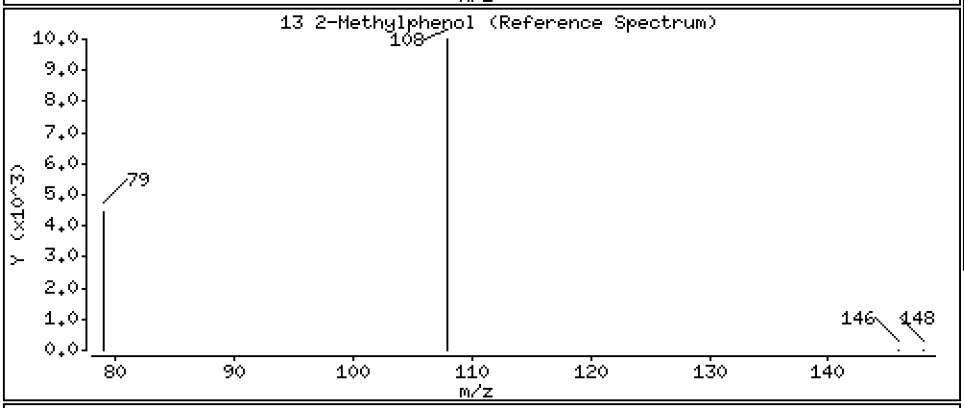
Concentration: 0.005999 ug/L

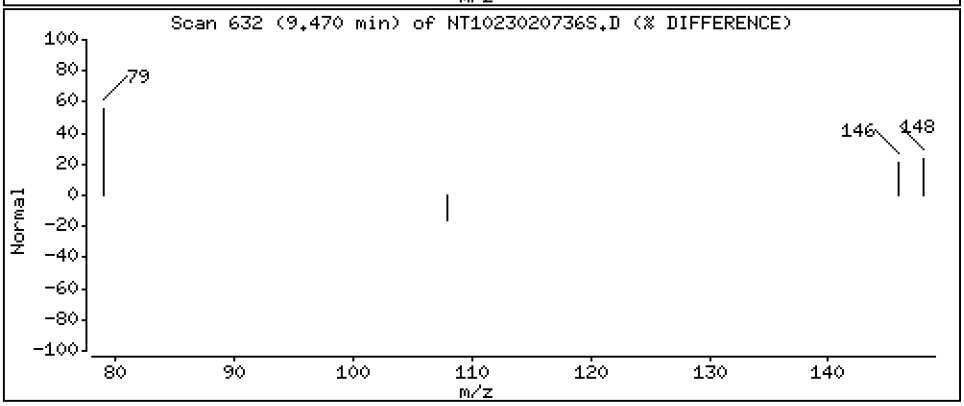












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Date : 08-FEB-2023 09:56

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BLK3

Volume Injected (uL): 1.0

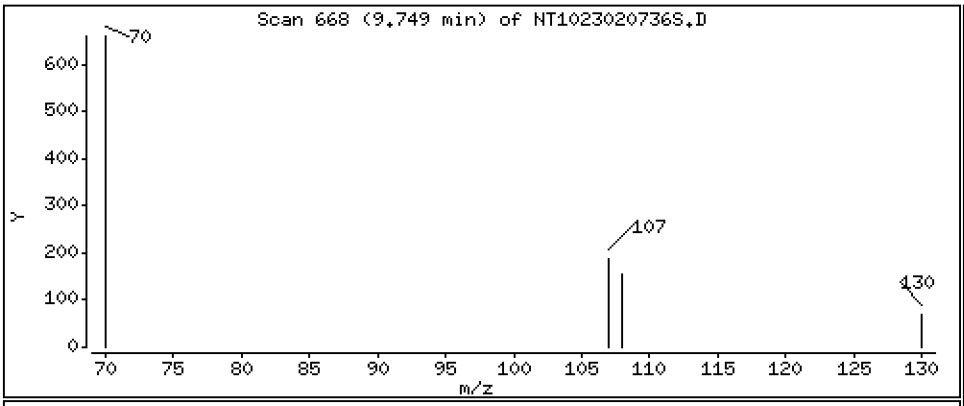
Operator: DSD

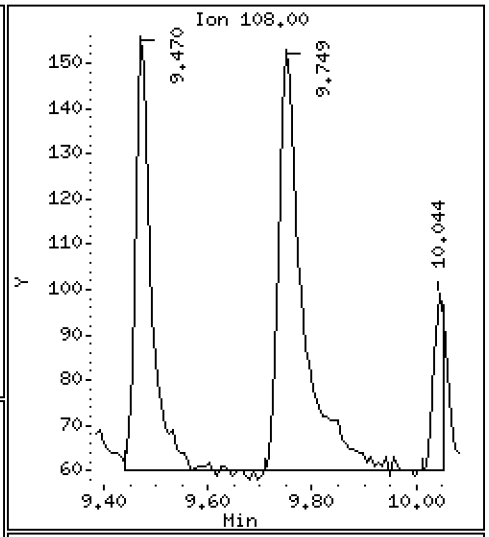
Column phase: ZB-5msi

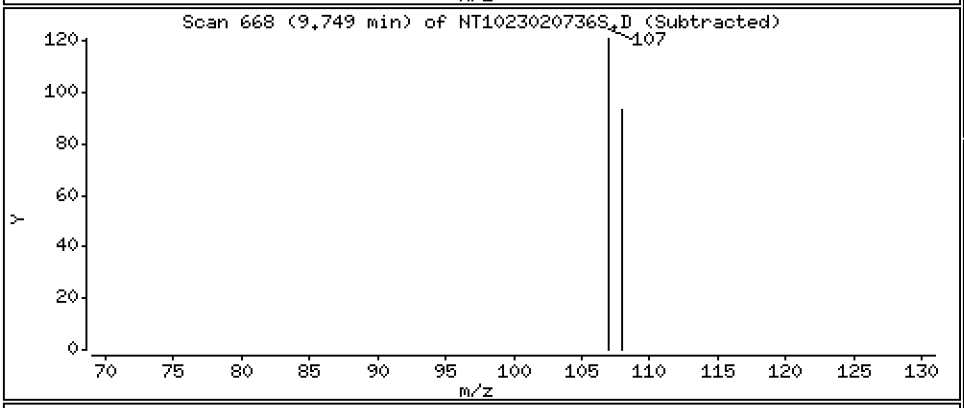
Column diameter: 0.25

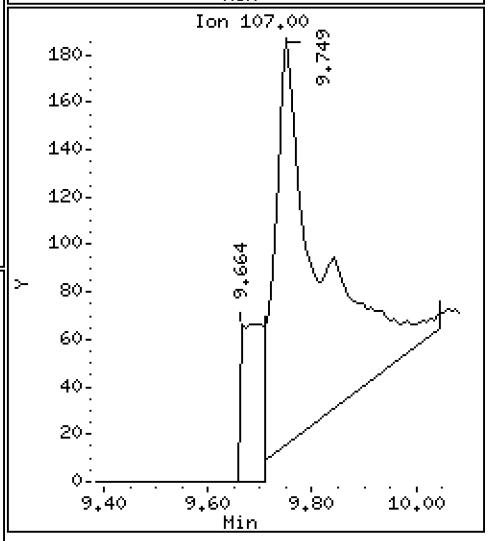
15 4-Methylphenol

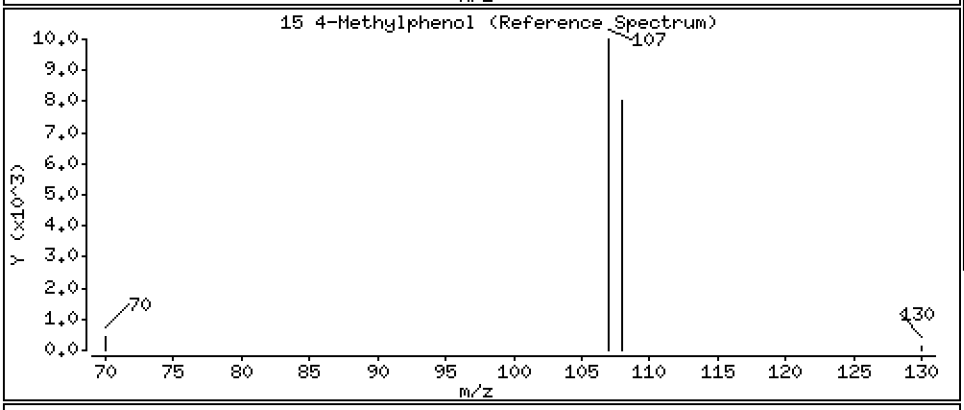
Concentration: 0.007990 ug/L

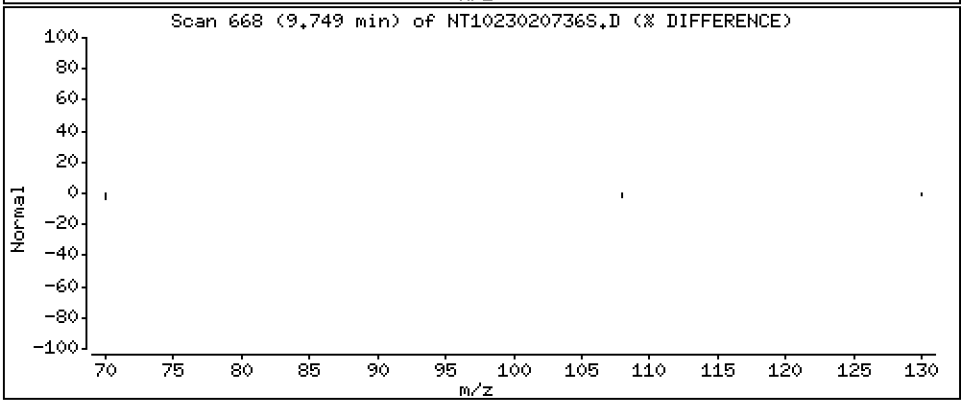












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207368.D

Date : 08-FEB-2023 09:56

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BLK3

Volume Injected (uL): 1.0

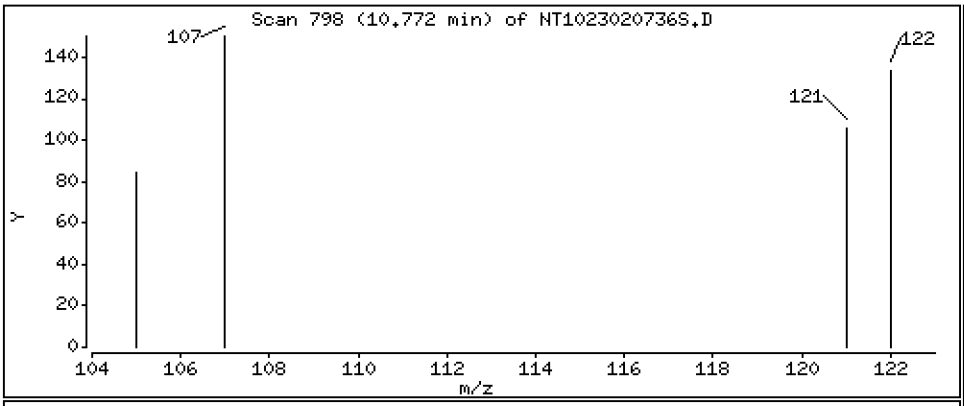
Operator: DSD

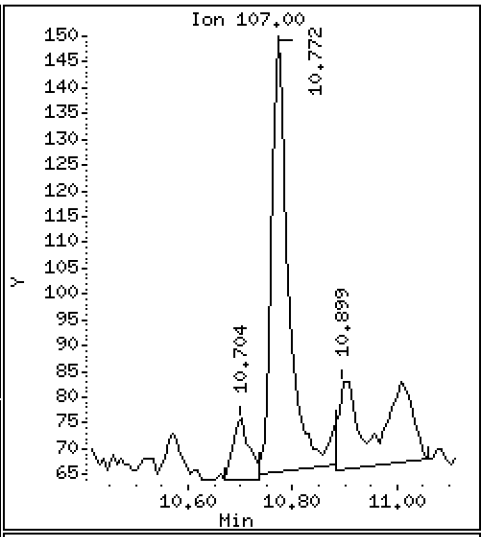
Column phase: ZB-5msi

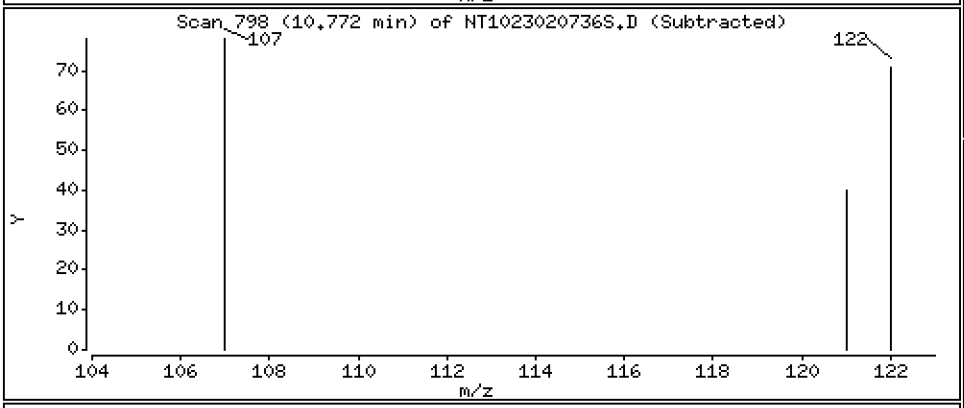
Column diameter: 0.25

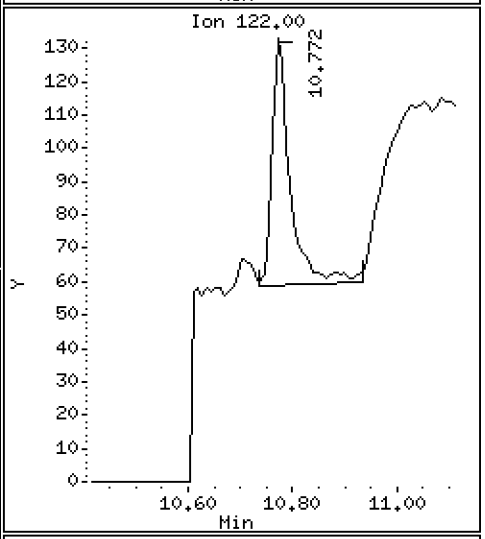
22 2,4-Dimethylphenol

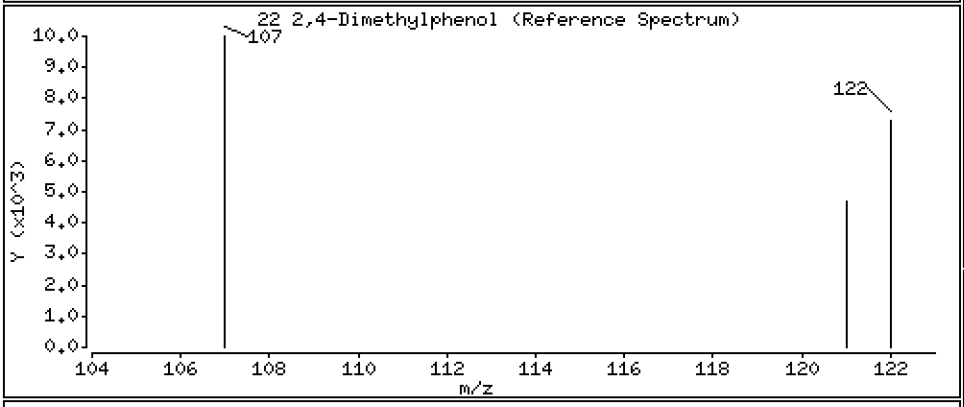
Concentration: 0.004957 ug/L

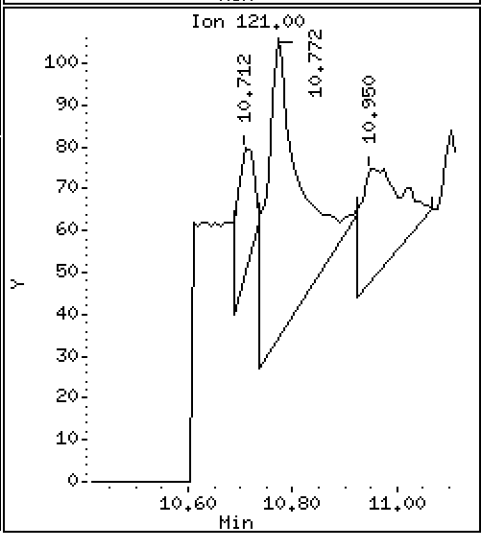


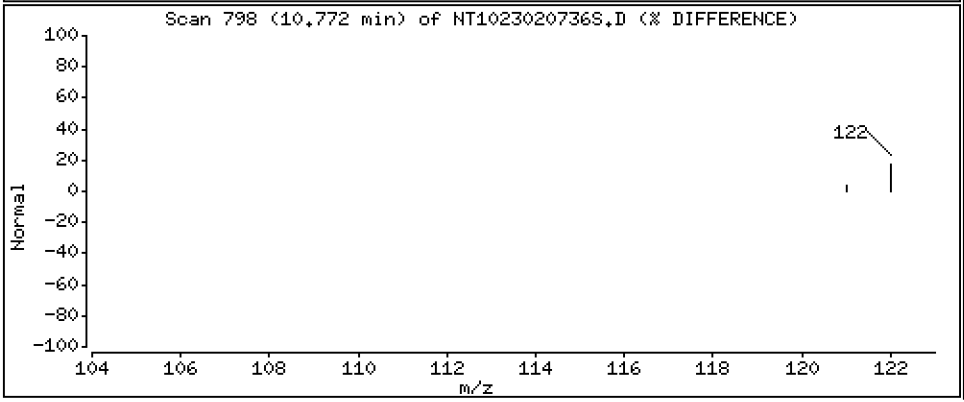












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Date : 08-FEB-2023 09:56

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BLK3

Volume Injected (uL): 1.0

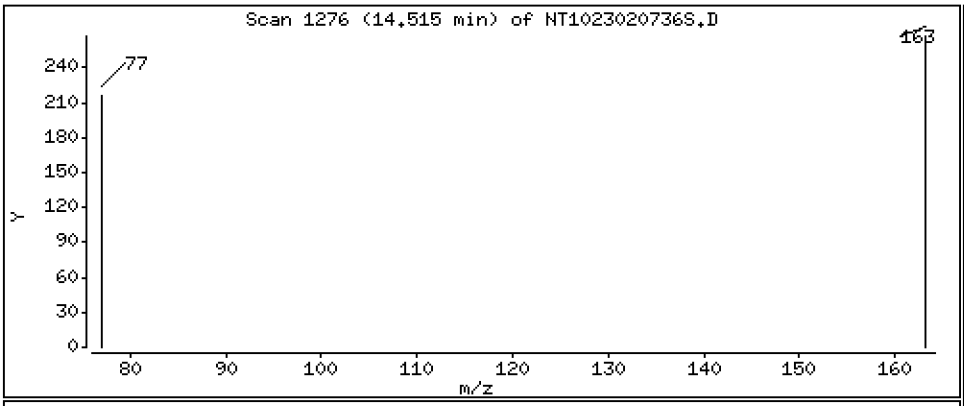
Operator: DSD

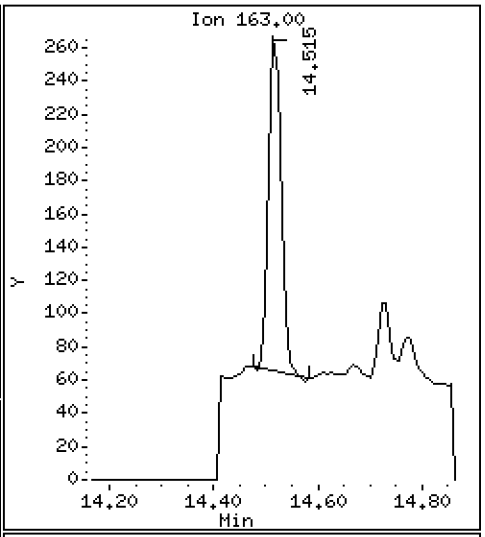
Column phase: ZB-5msi

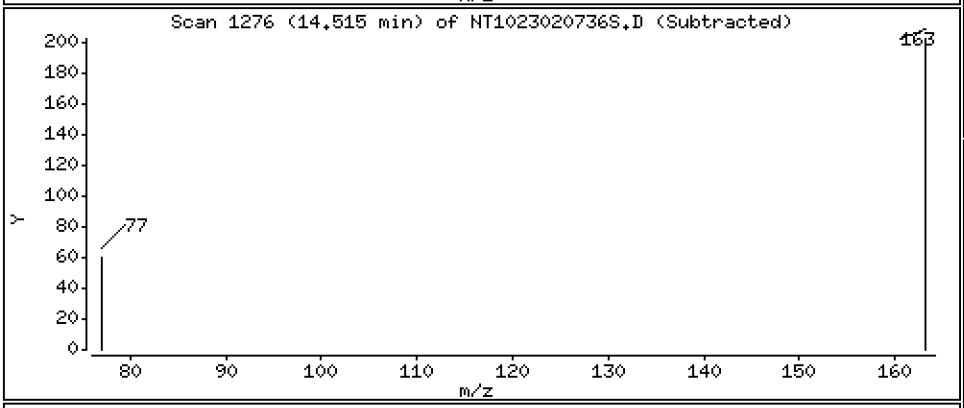
Column diameter: 0.25

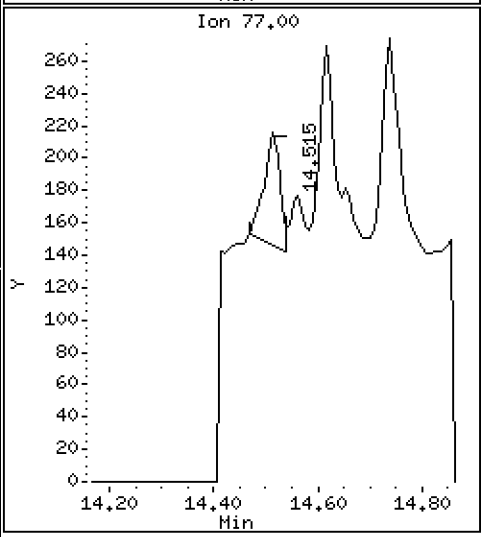
39 Dimethylphthalate

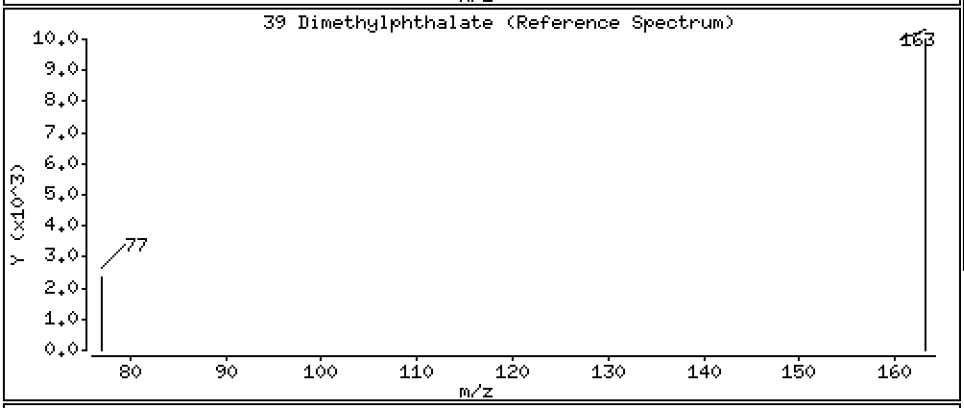
Concentration: 0.006317 ug/L

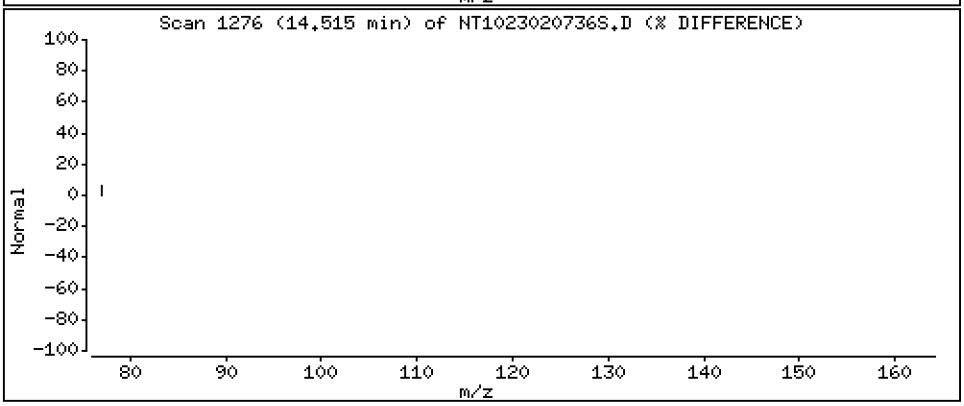












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Date : 08-FEB-2023 09:56

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BLK3

Volume Injected (uL): 1.0

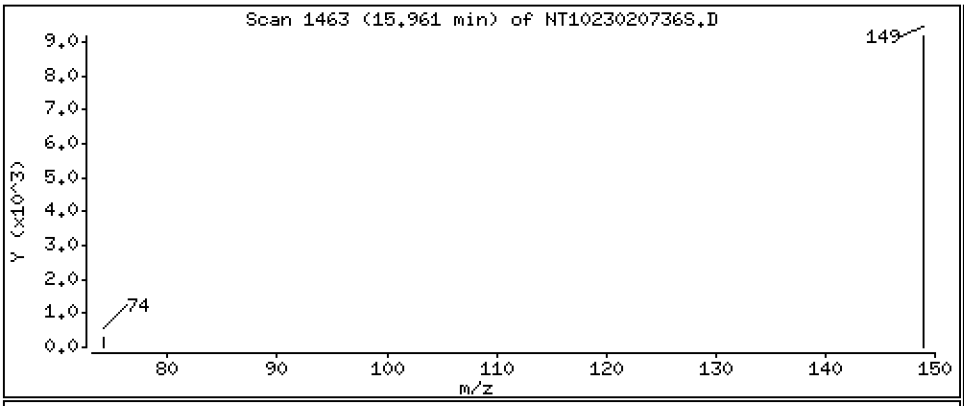
Operator: DSD

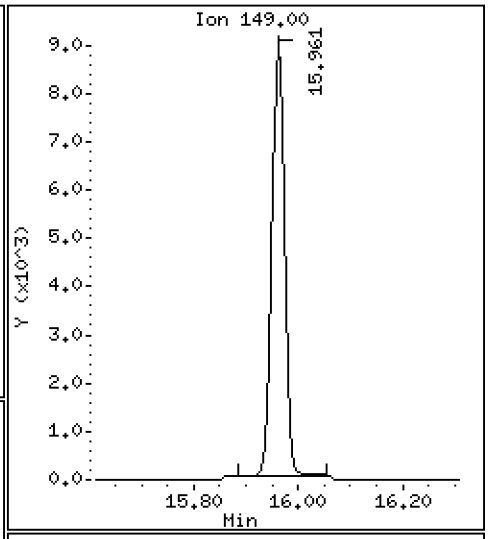
Column phase: ZB-5msi

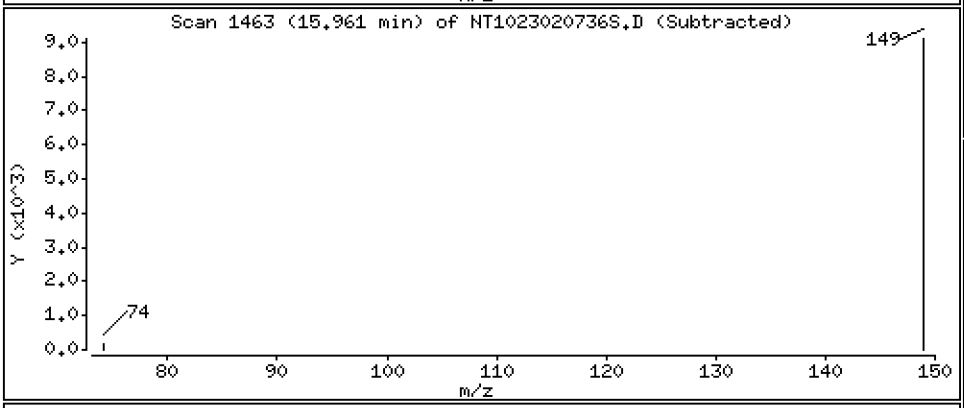
Column diameter: 0.25

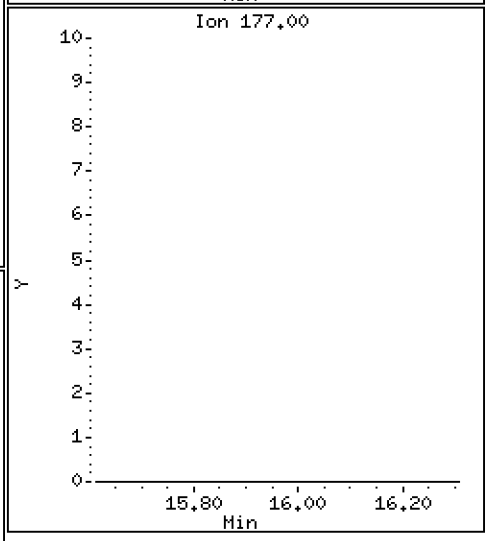
50 Diethylphthalate

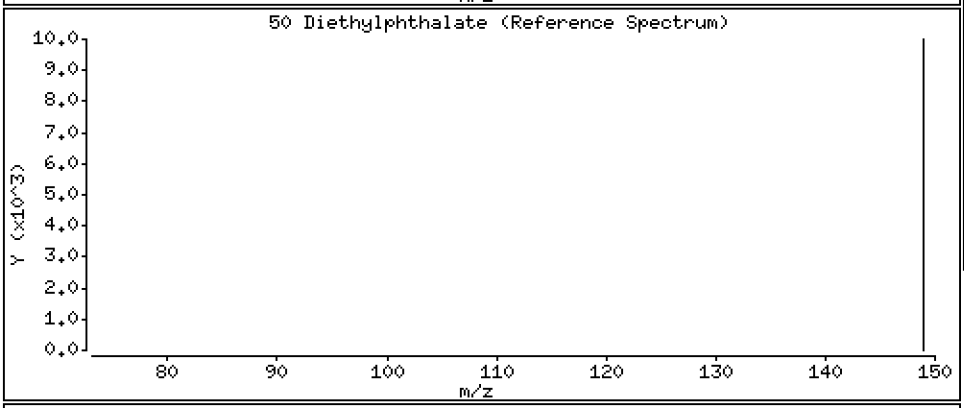
Concentration: 0.1910 ug/L

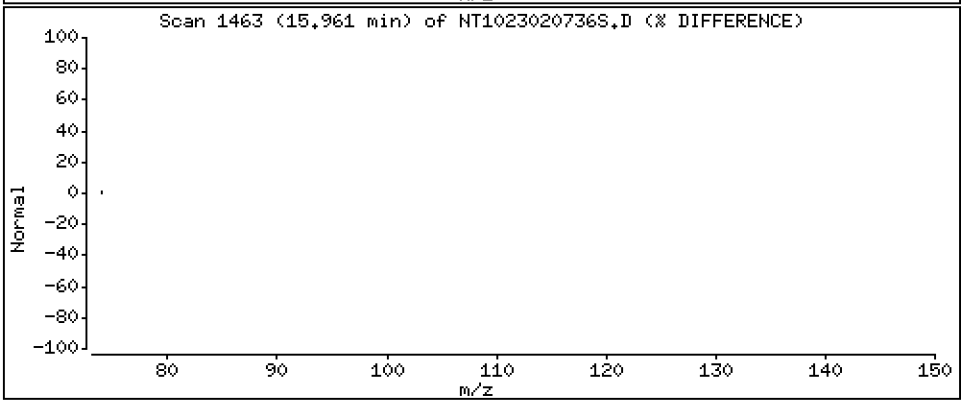












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Date : 08-FEB-2023 09:56

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BLK3

Volume Injected (uL): 1.0

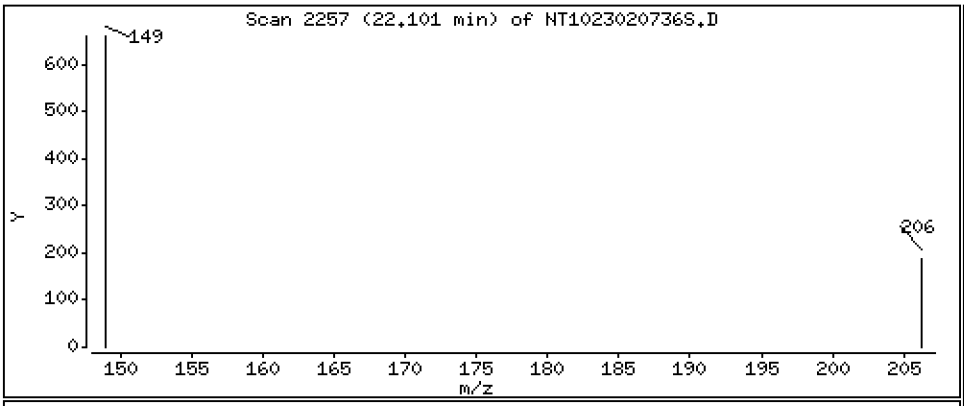
Operator: DSD

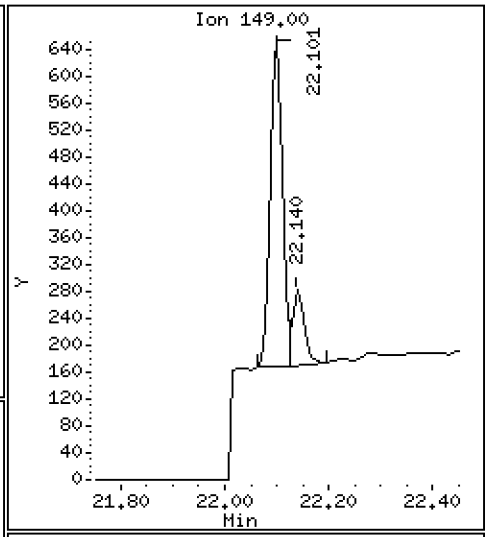
Column phase: ZB-5msi

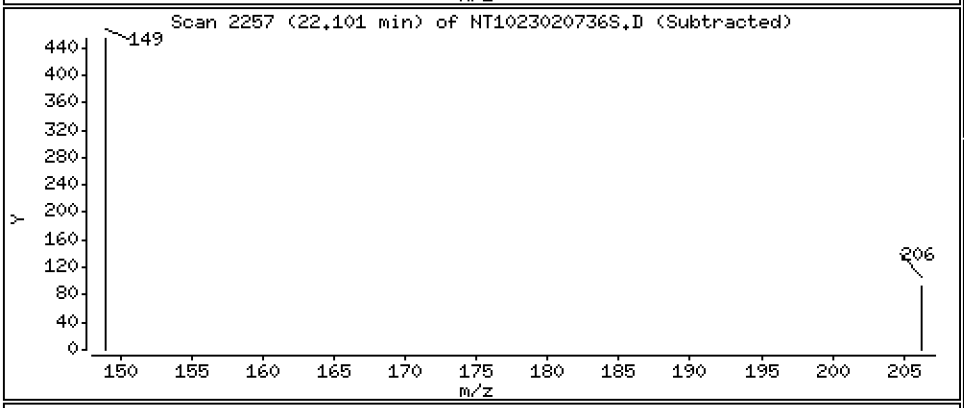
Column diameter: 0.25

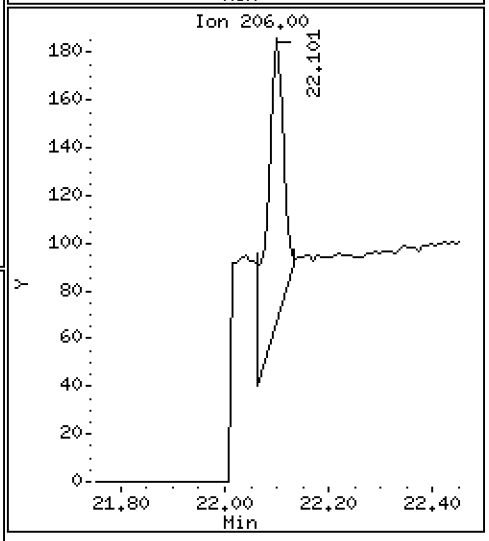
67 Butylbenzylphthalate

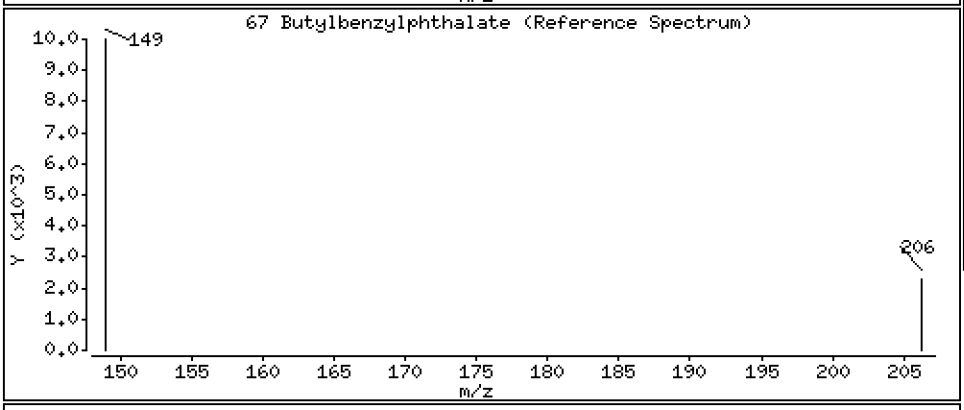
Concentration: 0.01581 ug/L

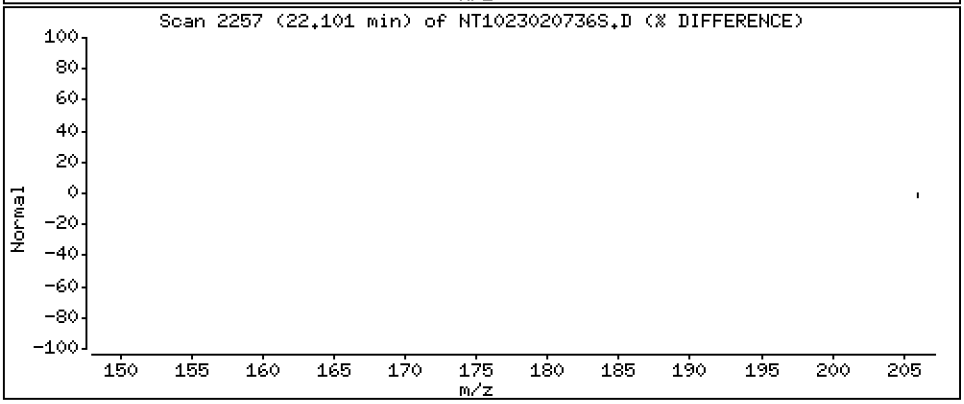












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020736S.D
Lab Smp Id: BLA0064-BLK3
Inj Date : 08-FEB-2023 09:56 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLA0064-BLK3
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.785	6.777	(0.757)	206293	5.63699	5.637(R)
3	Phenol	94	8.369	8.369	(0.934)	1552	0.02812	0.02812
7	1,3-Dichlorobenzene	146	8.903	8.902	(0.993)	391	0.00787	0.007868
* 8	1,4-Dichlorobenzene-d4	152	8.965	8.972	(1.000)	120344	4.00000	
9	1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	374	0.00770	0.007698(M)
11	Benzyl alcohol	79	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	9.353	9.353	(1.043)	325	0.00685	0.006853(M)
13	2-Methylphenol	108	9.469	9.461	(1.056)	226	0.00600	0.005999
15	4-Methylphenol	108	9.749	9.733	(1.087)	307	0.00799	0.007990
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.771	10.763	(0.943)	194	0.00496	0.004957
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.427	11.427	(1.000)	445549	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	14.514	14.514	(0.967)	317	0.00632	0.006317(M)
* 42	Acenaphthene-d10	162	15.010	15.009	(1.000)	215301	4.00000	
50	Diethylphthalate	149	15.960	15.960	(1.063)	14437	0.19104	0.1910
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.023	18.023	(1.000)	395423	4.00000	
$	66 Terphenyl-d14	244	21.172	21.164	(0.918)	366045	5.18148	5.181(R)
	67 Butylbenzylphthalate	149	22.101	22.101	(0.958)	755	0.01581	0.01581
*	69 Chrysene-d12	240	23.069	23.069	(1.000)	318273	4.00000	
*	77 Perylene-d12	264	25.624	25.631	(1.000)	350817	4.00000	
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020736S.D
Lab Smp Id: BLA0064-BLK3
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	120344	-2.63
27 Naphthalene-d8	454738	227369	909476	445549	-2.02
42 Acenaphthene-d10	223117	111559	446234	215301	-3.50
59 Phenanthrene-d10	408770	204385	817540	395423	-3.27
69 Chrysene-d12	339328	169664	678656	318273	-6.20
77 Perylene-d12	382671	191336	765342	350817	-8.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	-0.09
27 Naphthalene-d8	11.43	10.93	11.93	11.43	0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.01	0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.00
69 Chrysene-d12	23.07	22.57	23.57	23.07	0.00
77 Perylene-d12	25.63	25.13	26.13	25.62	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020736S.D

Lab ID: BLA0064-BLK3
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 09:56

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

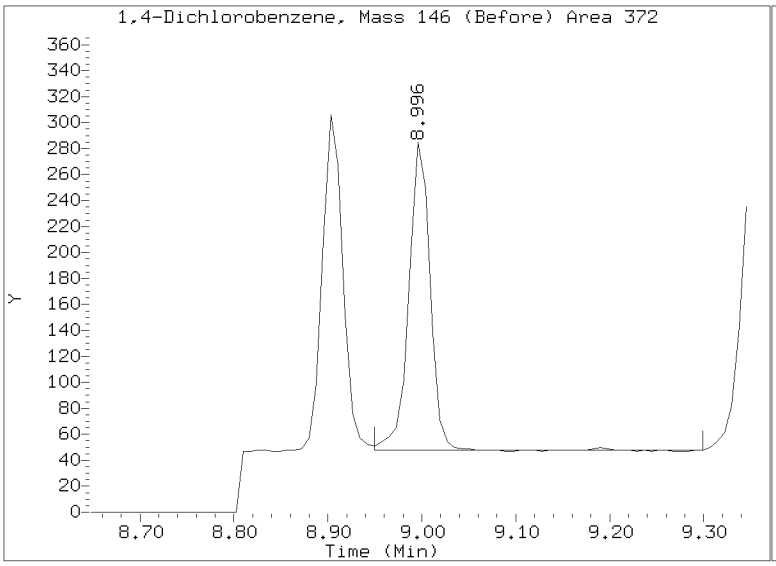
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

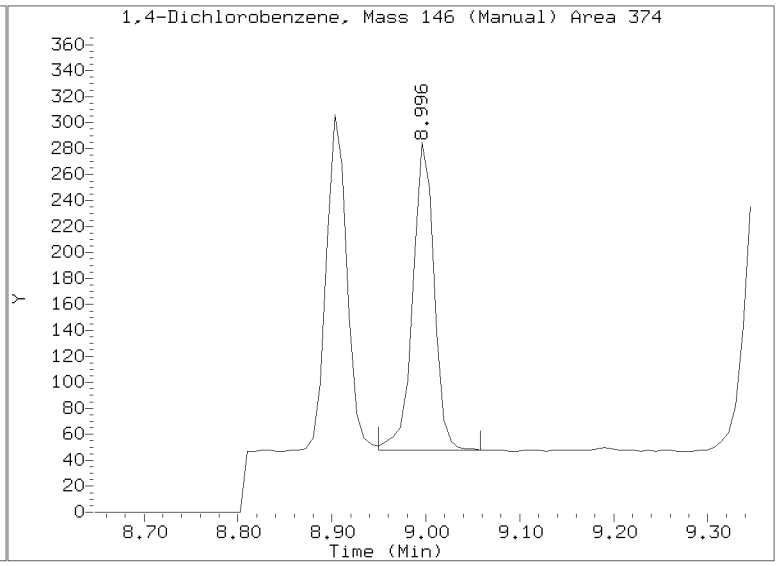
Exception: 1,2,4-Trichlorobenzene 0.0010

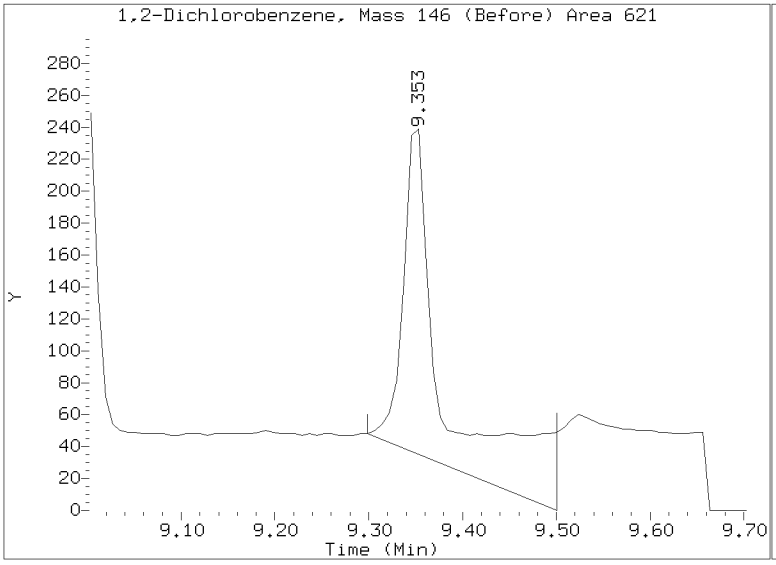
* Only compounds listed in the work order have been verified by the analyst *

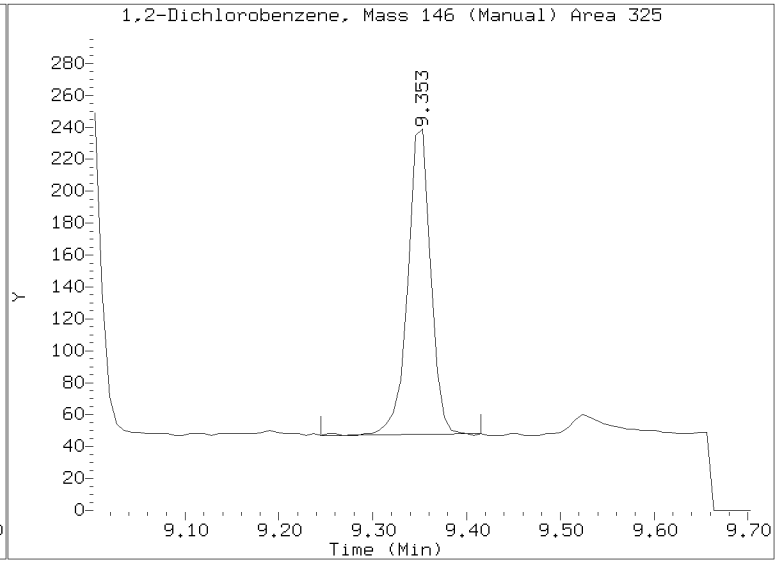
Quant Ion Manual Peak Adjustment Report

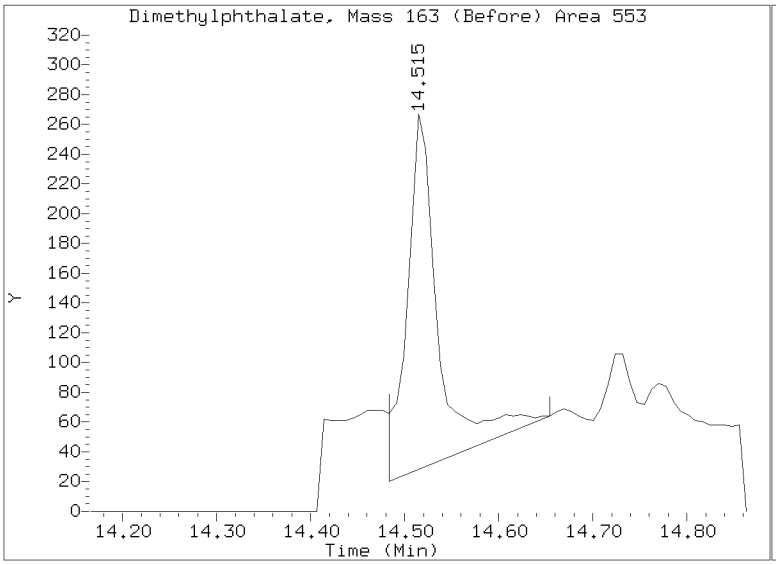
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020736S.D
Injection Date: 08-FEB-2023 09:56
Lab ID:BLA0064-BLK3 Client ID:
Report Date: 02/09/2023 14:59

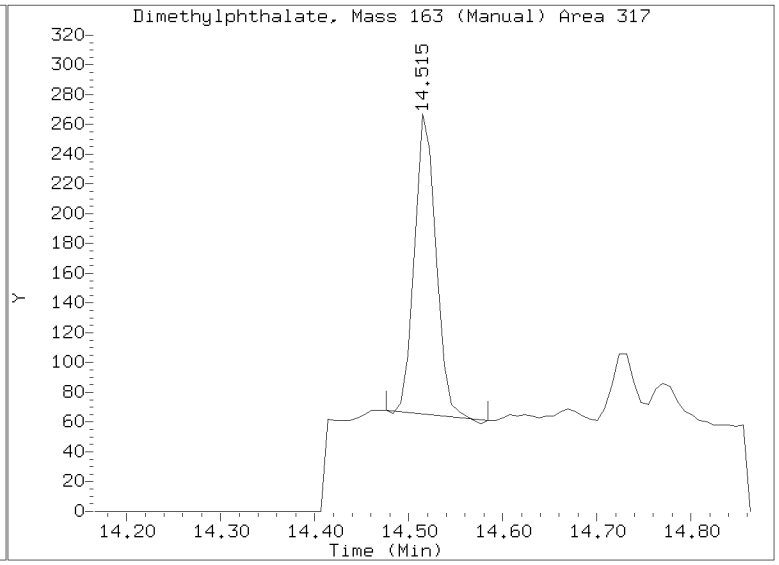












LCS / LCS DUPLICATE RECOVERY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	02/08/23 10:35
Batch:	BLA0064	Laboratory ID:	BLA0064-BS2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
1,4-Dichlorobenzene	500	219		43.8	36 - 120
1,2-Dichlorobenzene	500	224		44.8	36 - 120
Benzyl Alcohol	500	303		60.6	25 - 123
Benzoic acid	2300	365		15.9	10 - 160
2,4-Dimethylphenol	1300	310		23.8	10 - 120
1,2,4-Trichlorobenzene	500	222		44.4	35 - 120
N-Nitrosodiphenylamine	500	210		42.0	27 - 120
Pentachlorophenol	1300	795		61.2	26 - 120

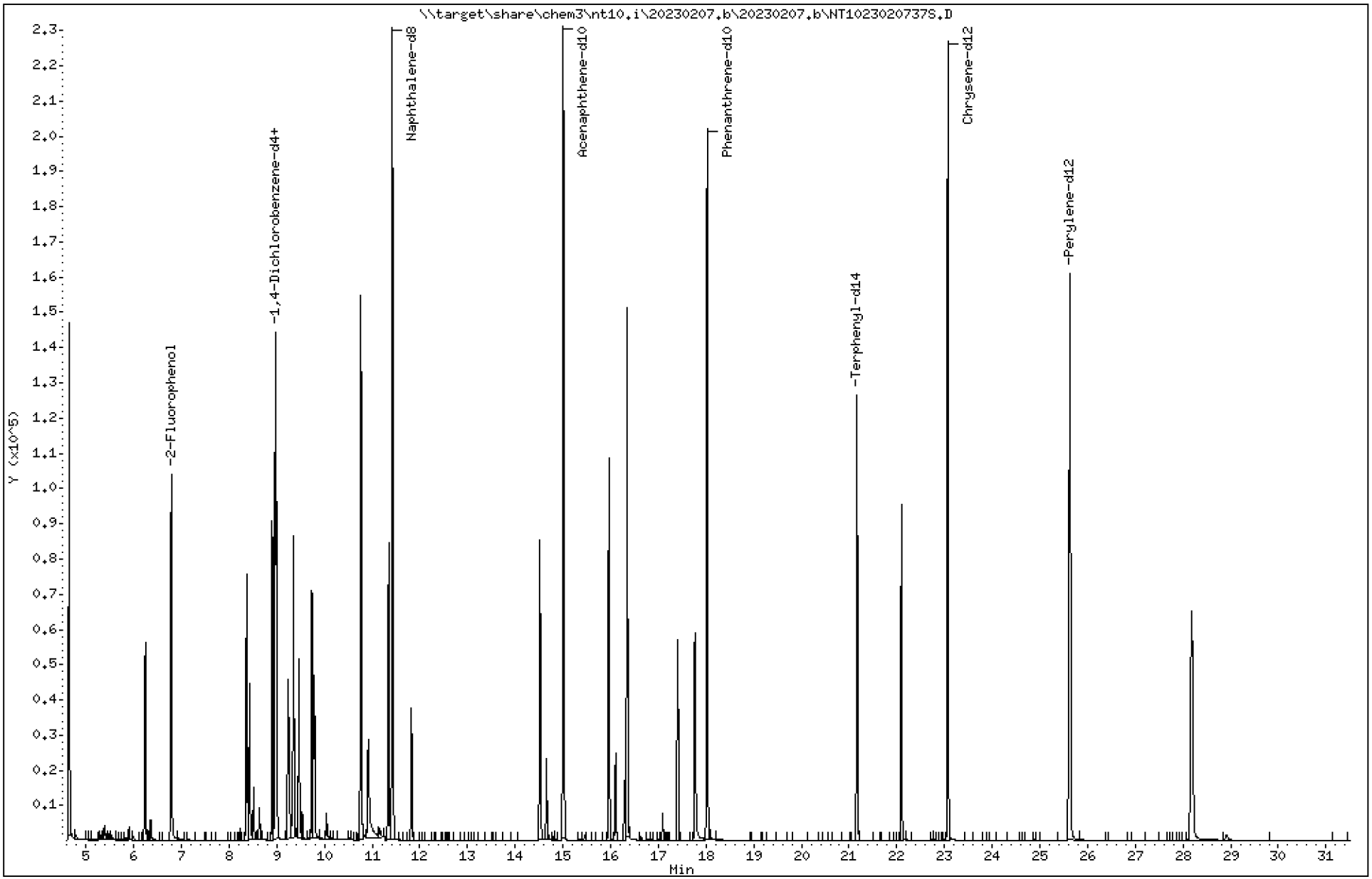
* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #		QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	500	325	*	65.0	39.0	*	30	36 - 120
1,2-Dichlorobenzene	500	328	*	65.7	37.7	*	30	36 - 120
Benzyl Alcohol	500	422	*	84.5	32.9	*	30	25 - 123
Benzoic acid	2300	2740	*	119	153	*	30	10 - 160
2,4-Dimethylphenol	1300	881	*	67.8	96.0	*	30	10 - 120
1,2,4-Trichlorobenzene	500	348	*	69.7	44.2	*	30	35 - 120
N-Nitrosodiphenylamine	500	337	*	67.4	46.4	*	30	27 - 120
Pentachlorophenol	1300	1300	*	100	48.5	*	30	26 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207378.D
Date : 08-FEB-2023 10:35
Client ID:
Sample Info: BLA0064-BS2
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: DSD
Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207375.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

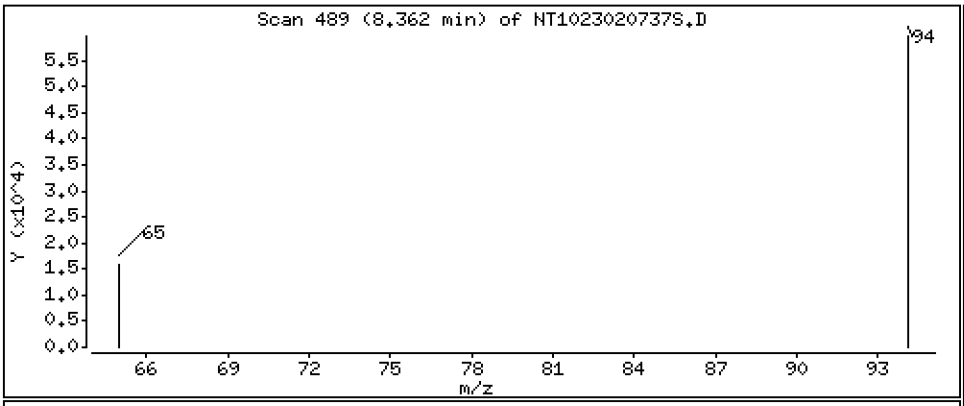
Operator: DSD

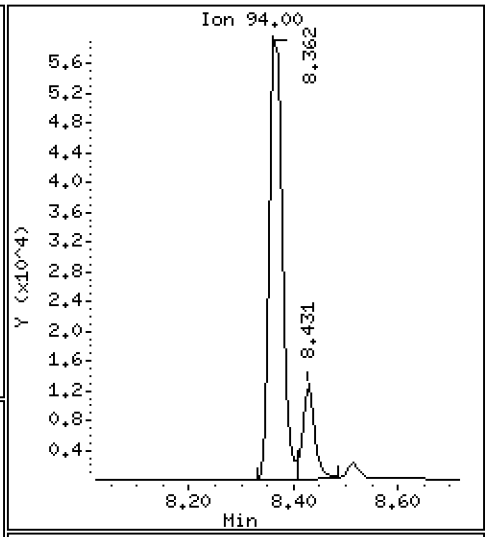
Column phase: ZB-5msi

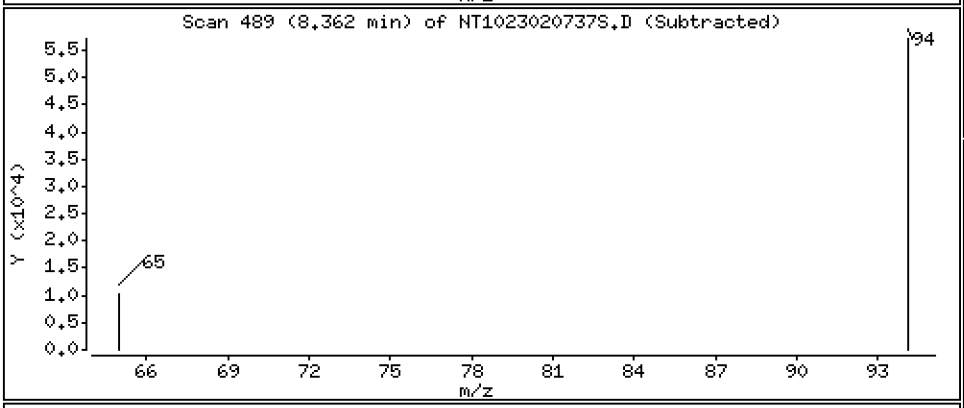
Column diameter: 0.25

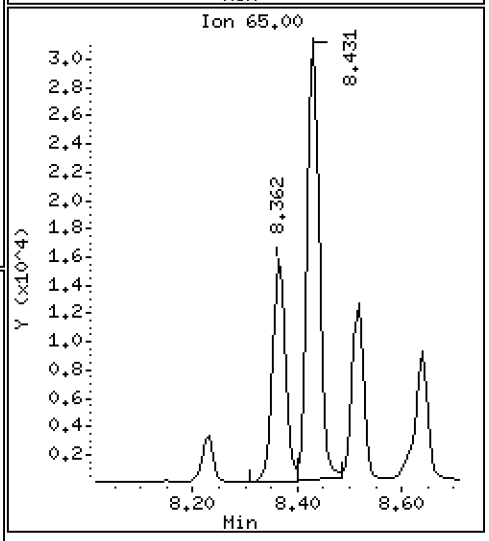
3 Phenol

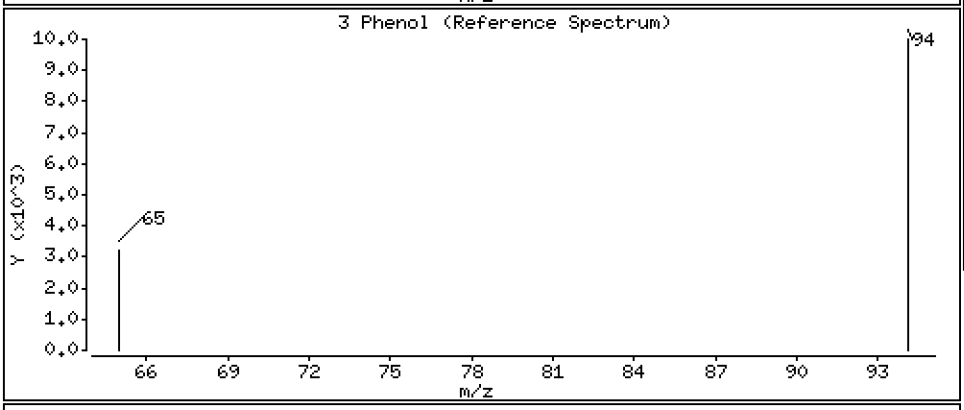
Concentration: 2.371 ug/L

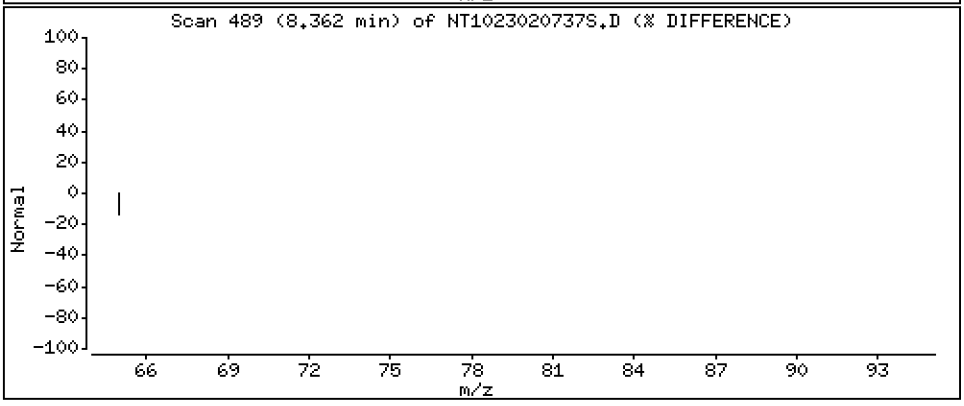












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207375.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

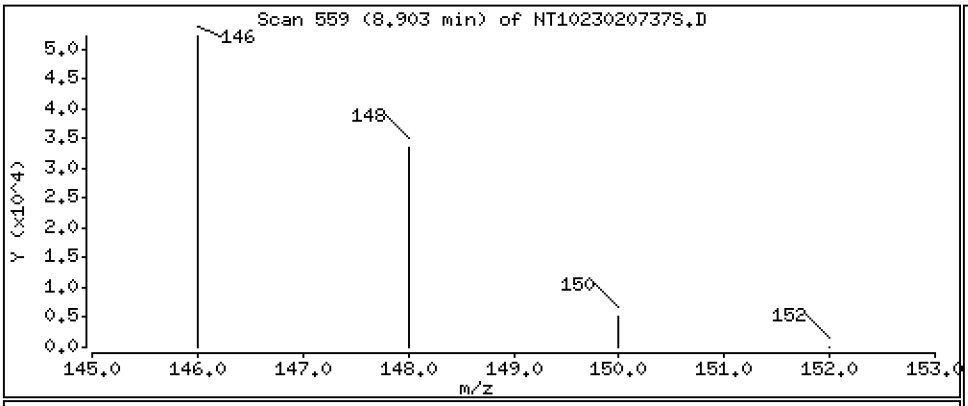
Operator: DSD

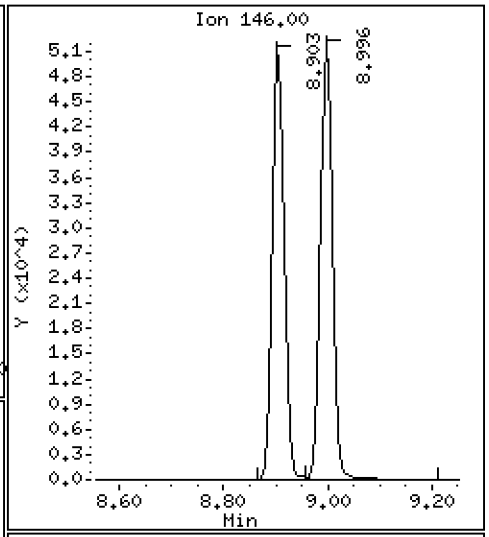
Column phase: ZB-5msi

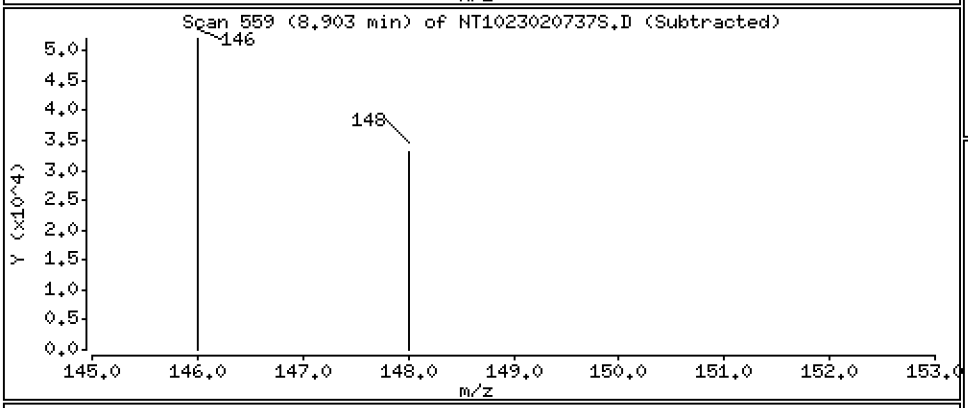
Column diameter: 0.25

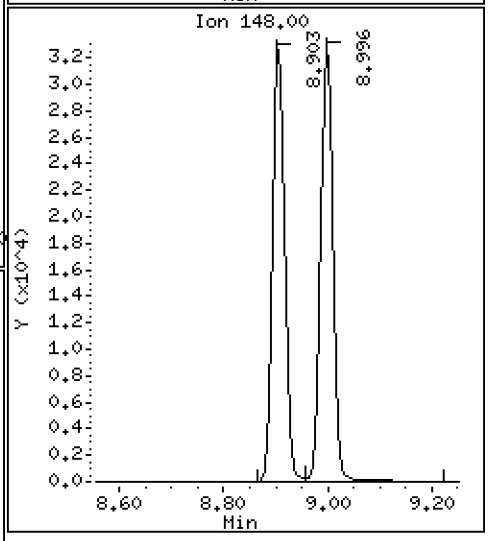
7 1,3-Dichlorobenzene

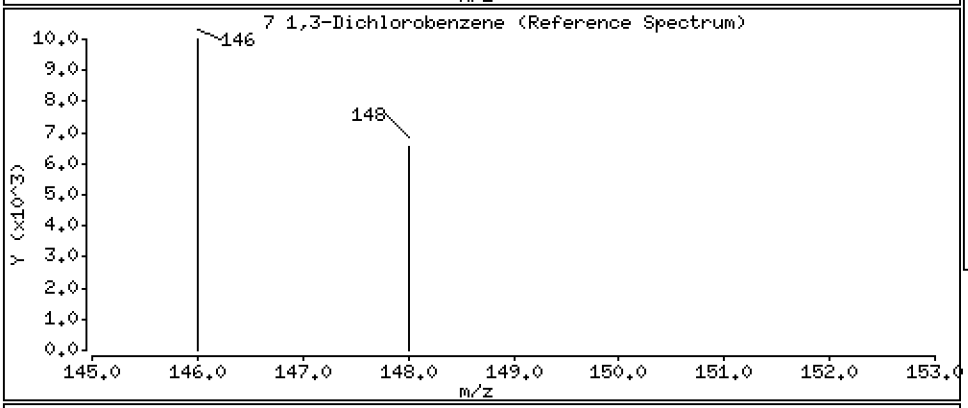
Concentration: 2.136 ug/L

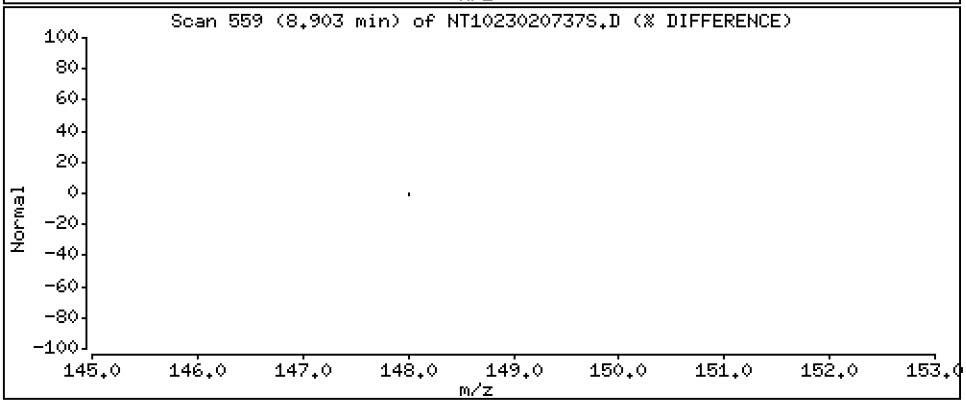












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207375.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

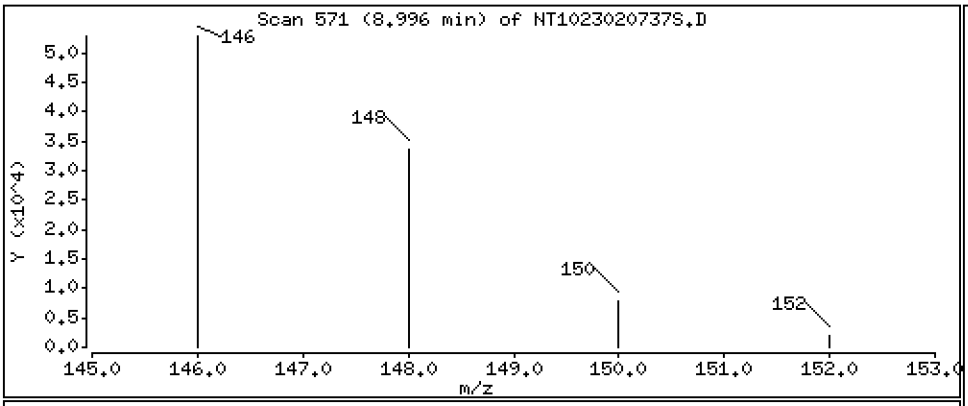
Operator: DSD

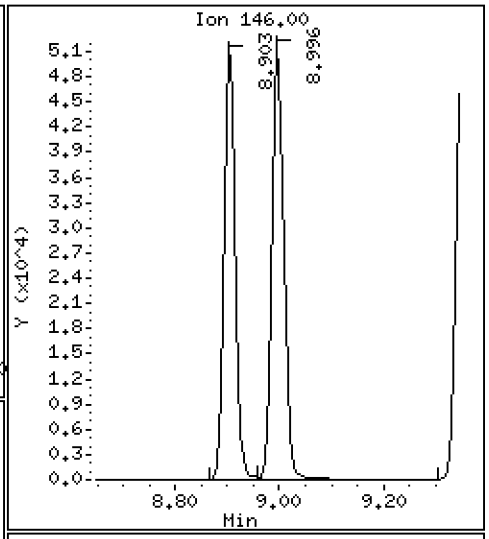
Column phase: ZB-5msi

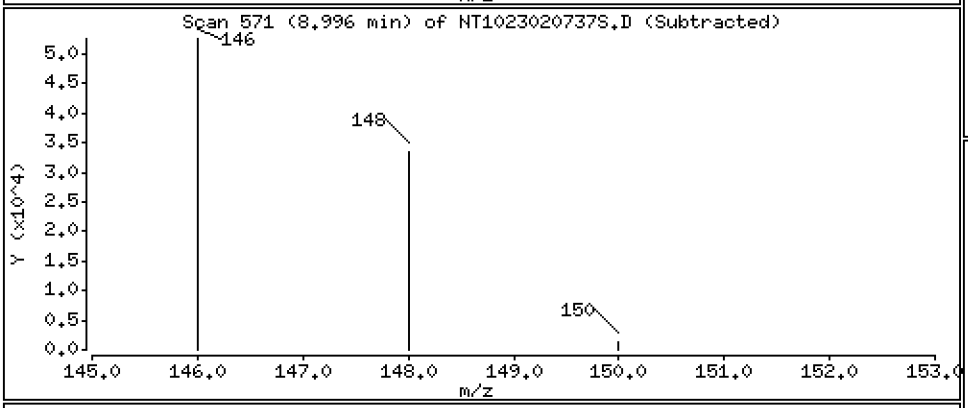
Column diameter: 0.25

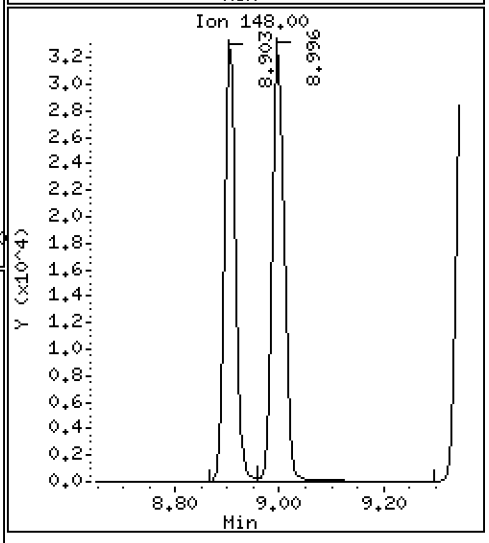
9 1,4-Dichlorobenzene

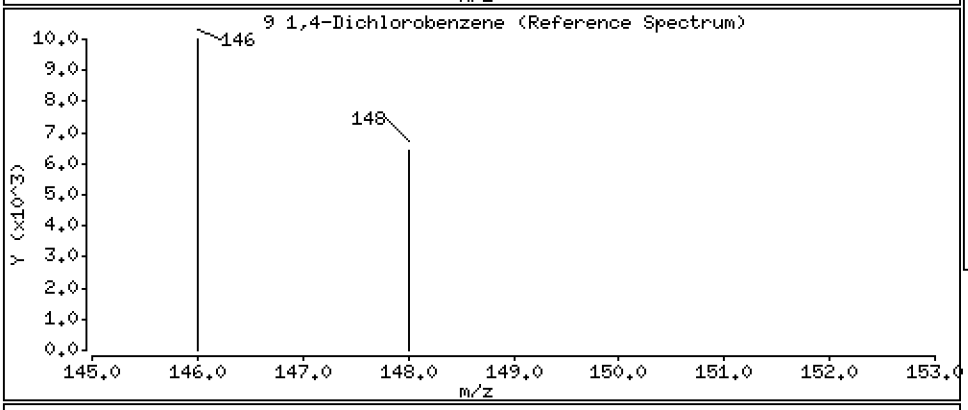
Concentration: 2.188 ug/L

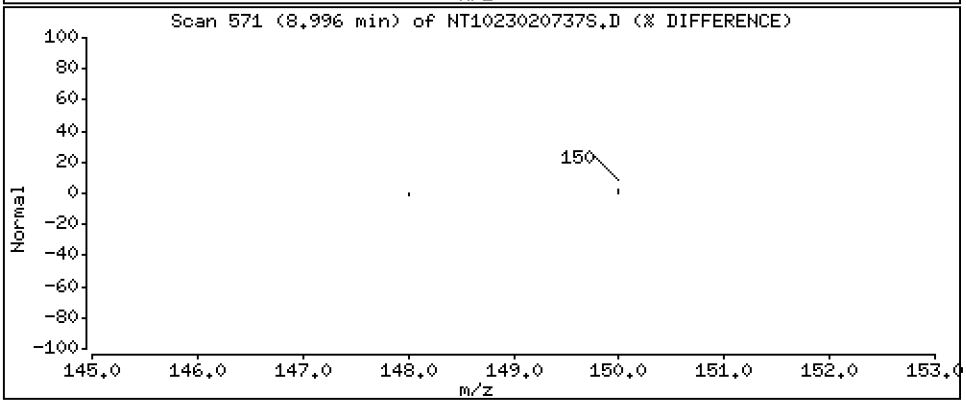












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207375.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

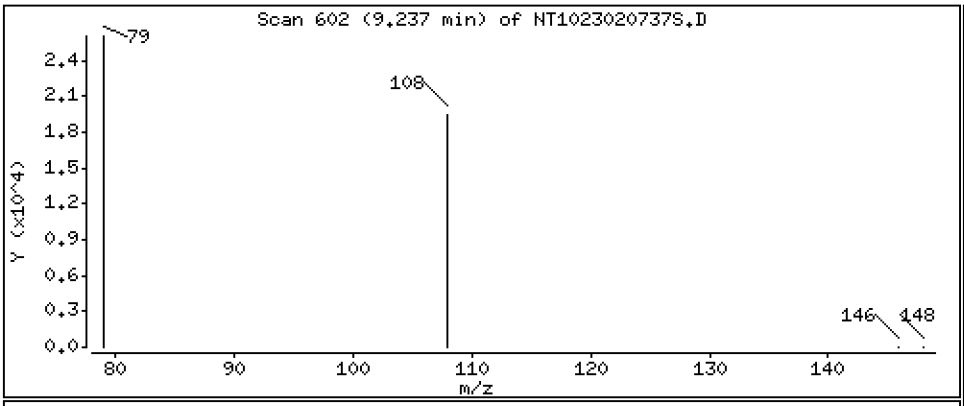
Operator: DSD

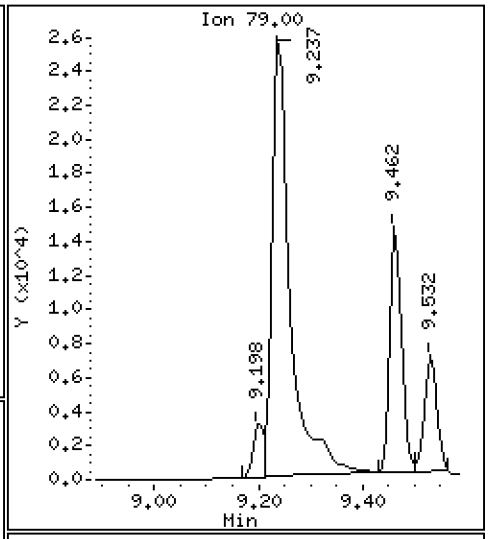
Column phase: ZB-5msi

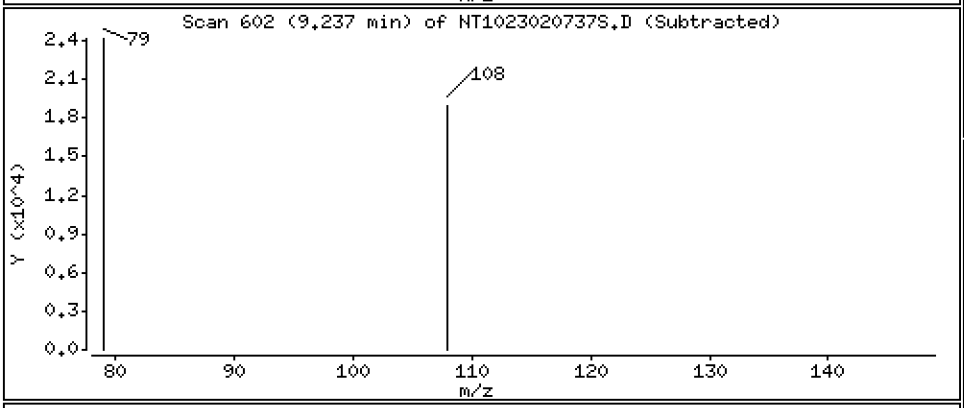
Column diameter: 0.25

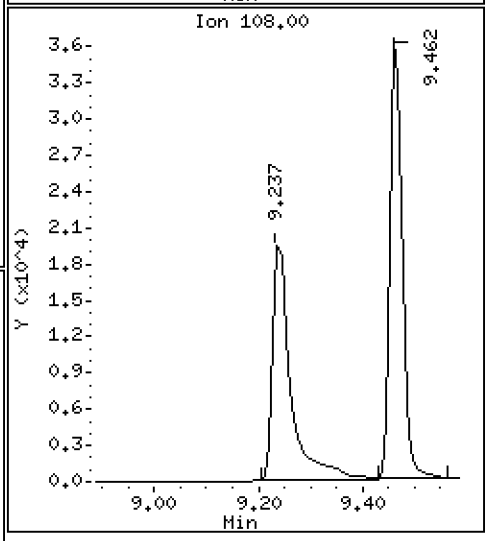
11 Benzyl alcohol

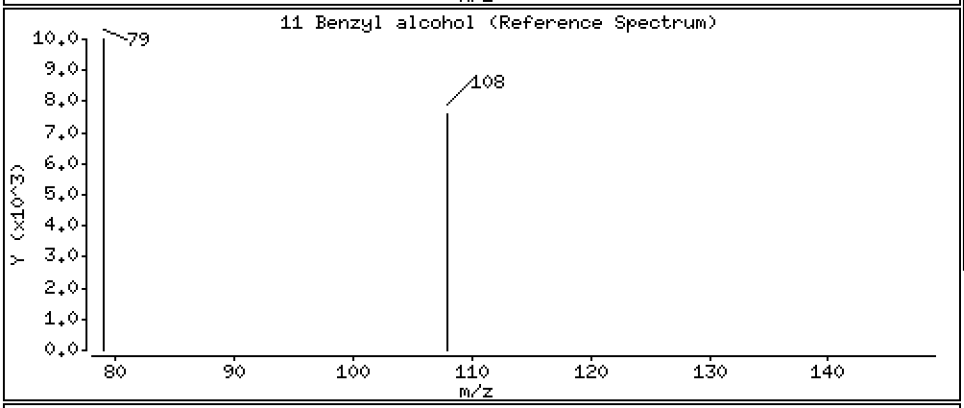
Concentration: 3.032 ug/L

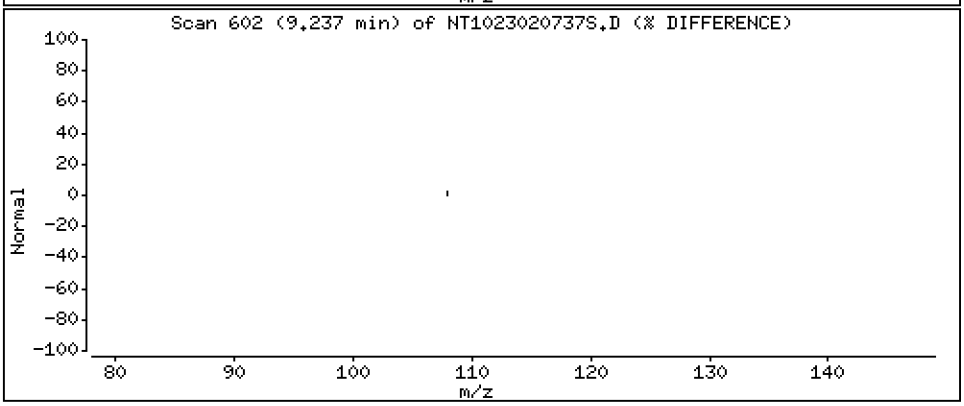












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207375.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

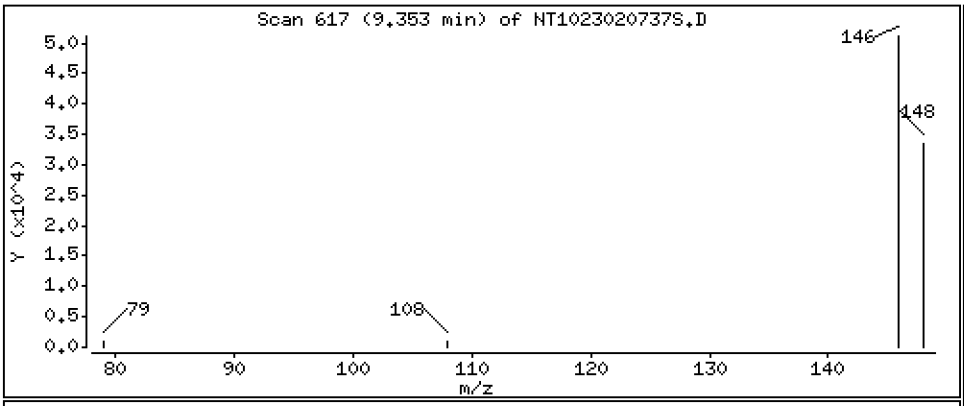
Operator: DSD

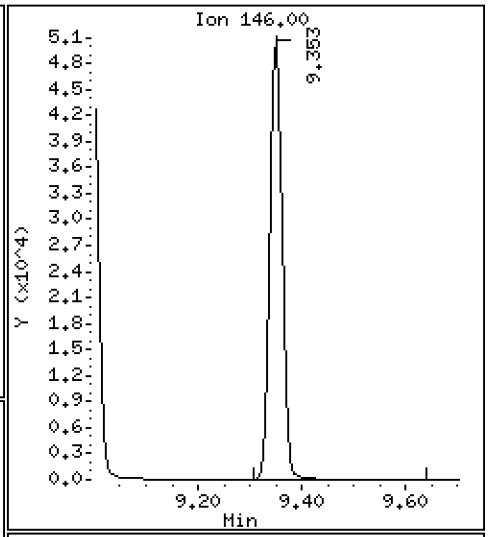
Column phase: ZB-5msi

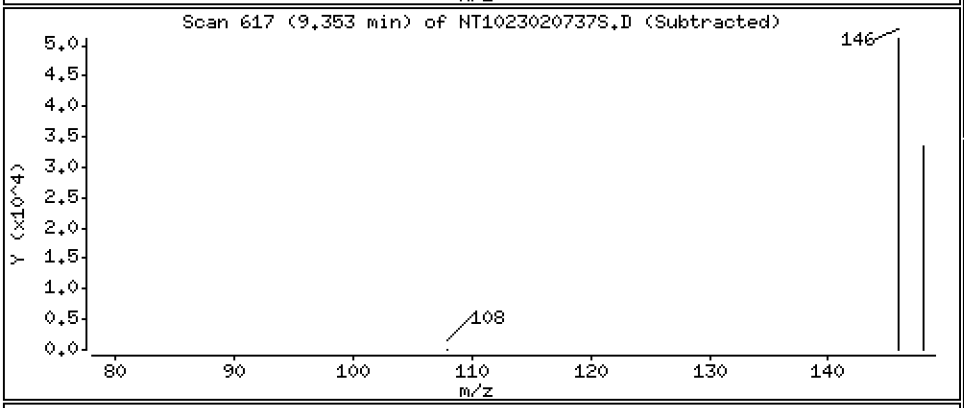
Column diameter: 0.25

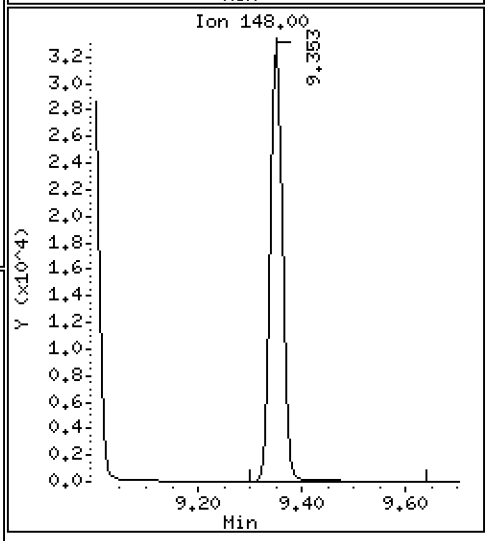
12 1,2-Dichlorobenzene

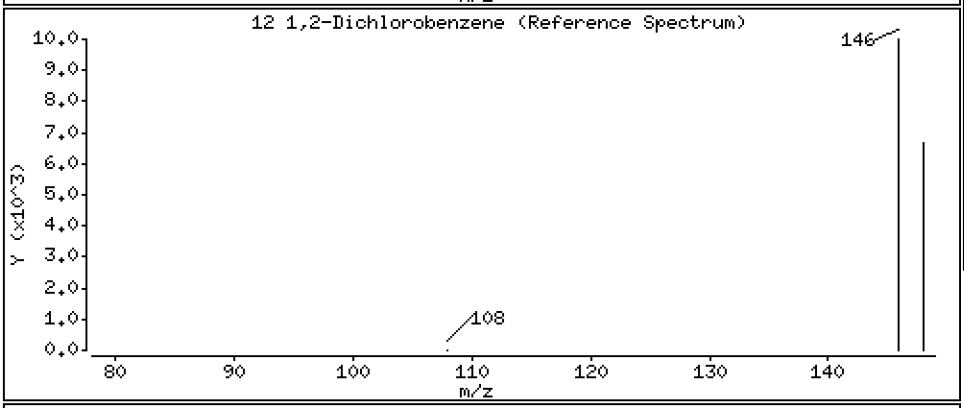
Concentration: 2.242 ug/L

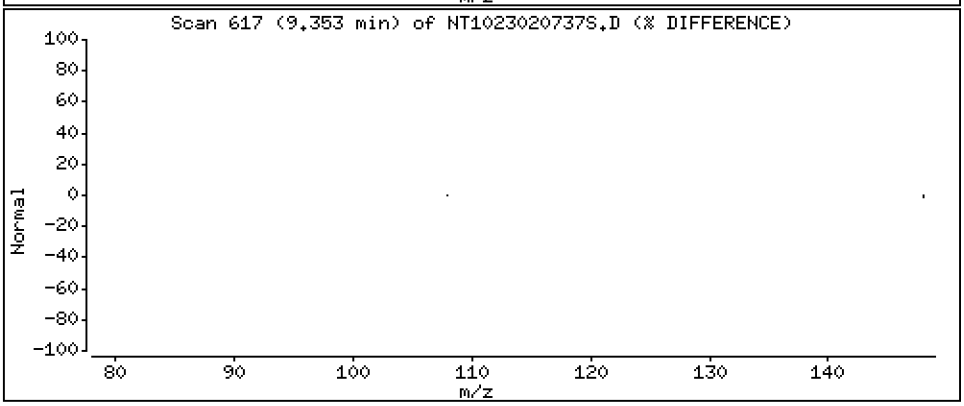












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207375.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

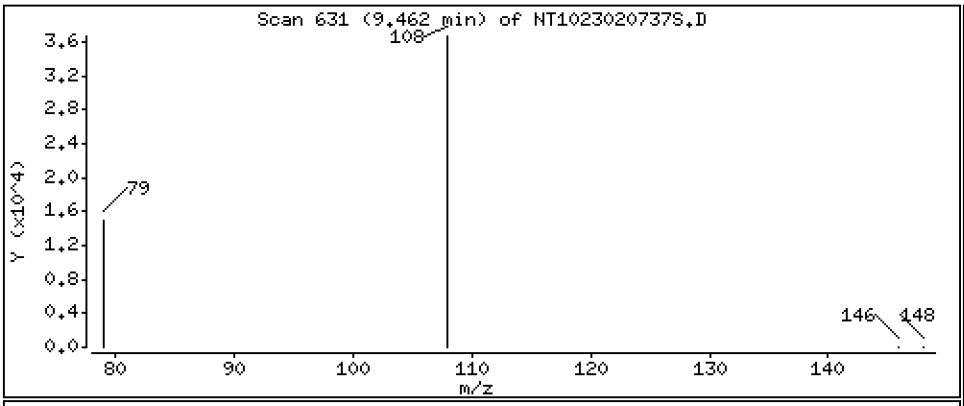
Operator: DSD

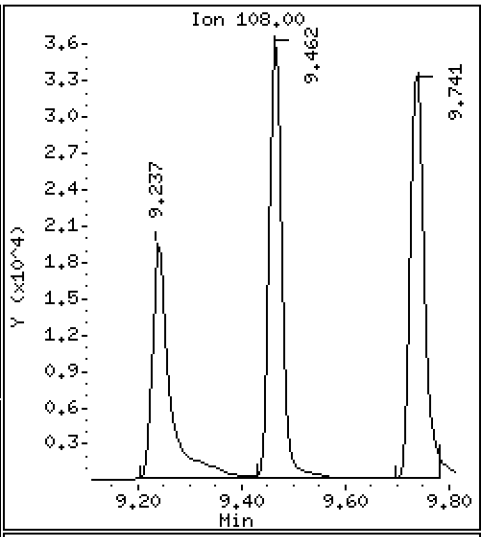
Column phase: ZB-5msi

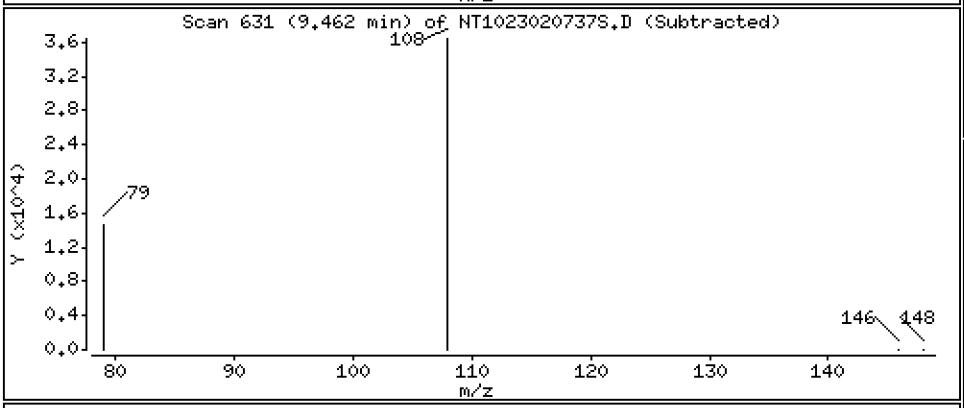
Column diameter: 0.25

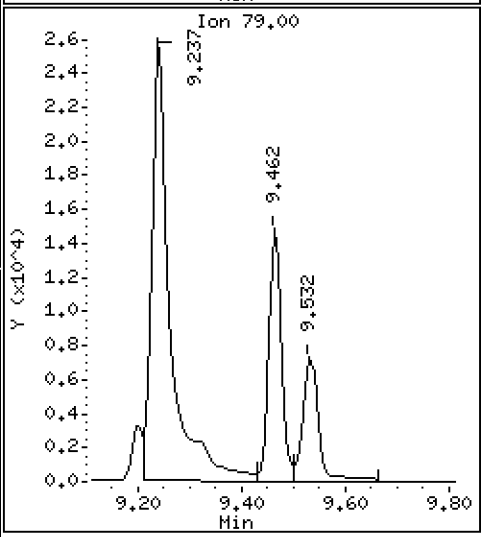
13 2-Methylphenol

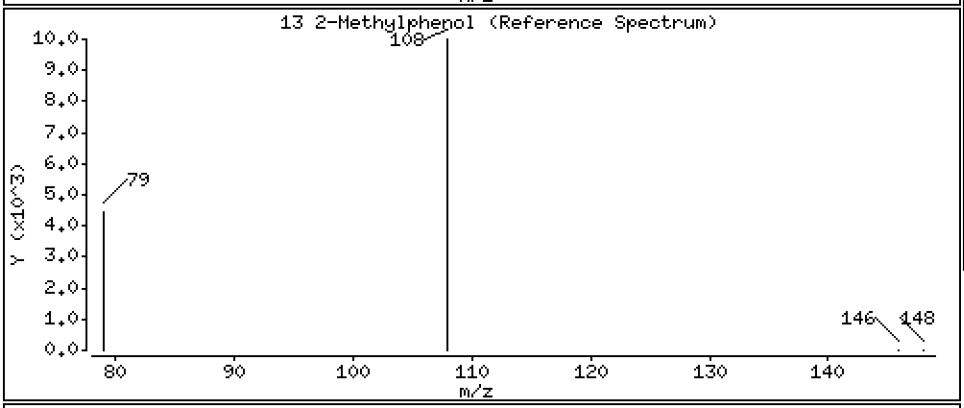
Concentration: 2.109 ug/L

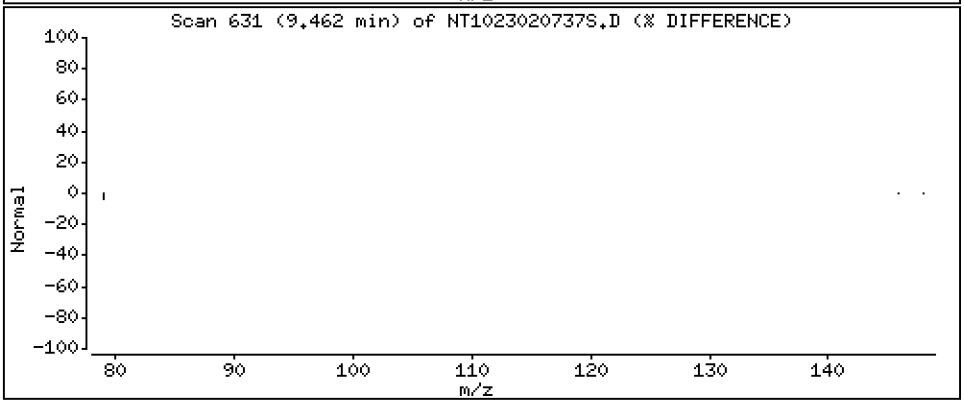












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207375.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

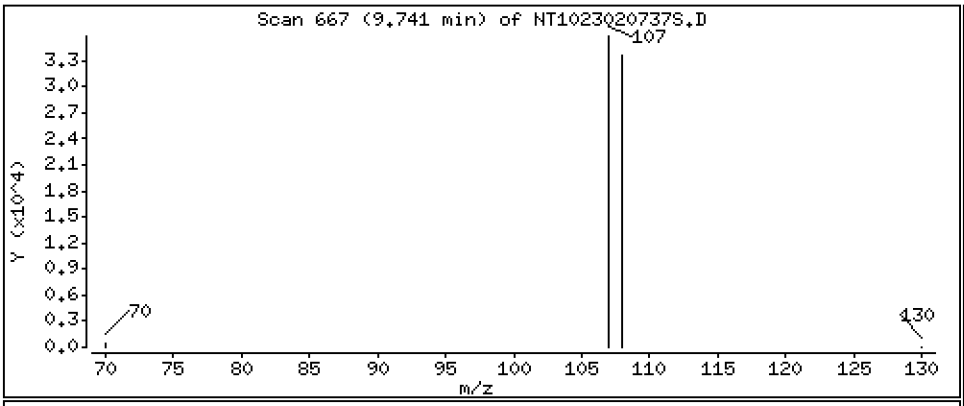
Operator: DSD

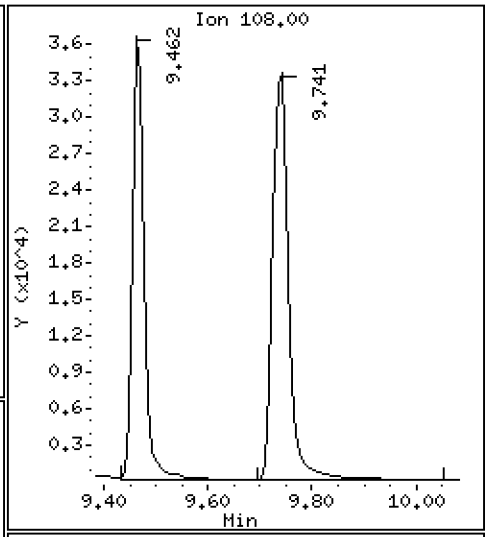
Column phase: ZB-5msi

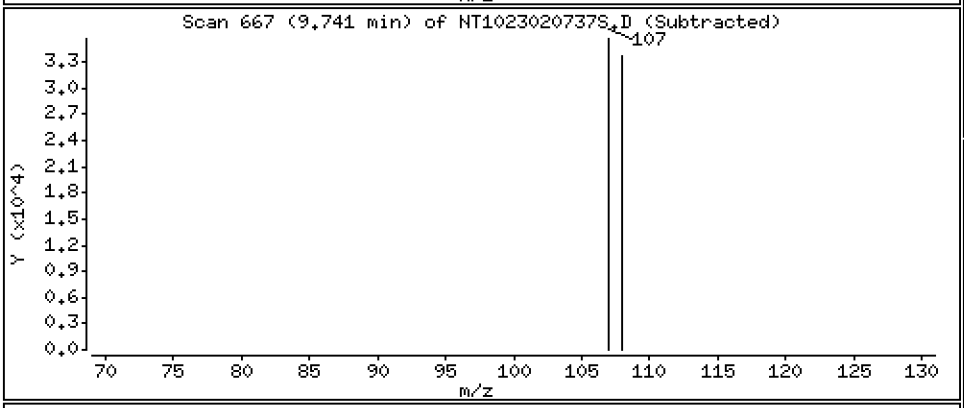
Column diameter: 0.25

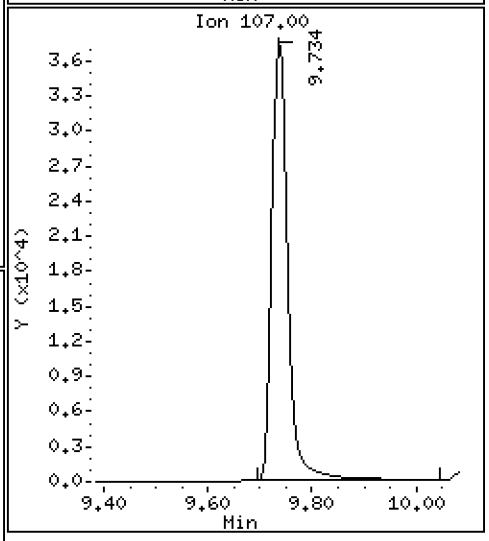
15 4-Methylphenol

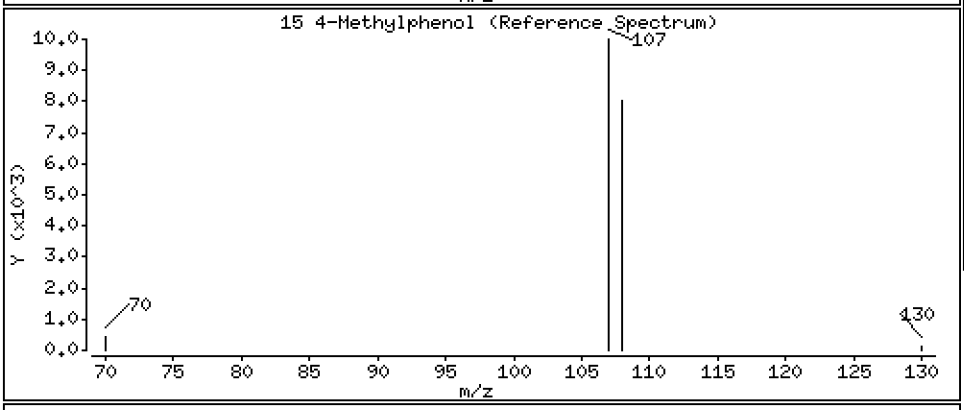
Concentration: 2.426 ug/L

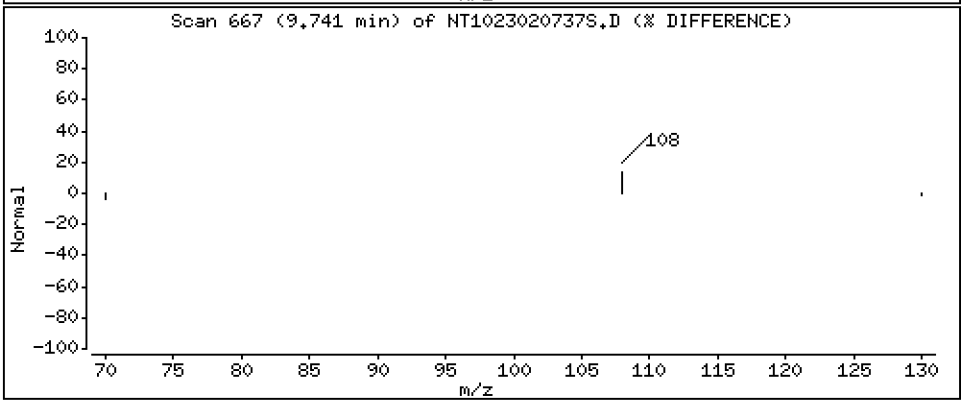












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207375.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

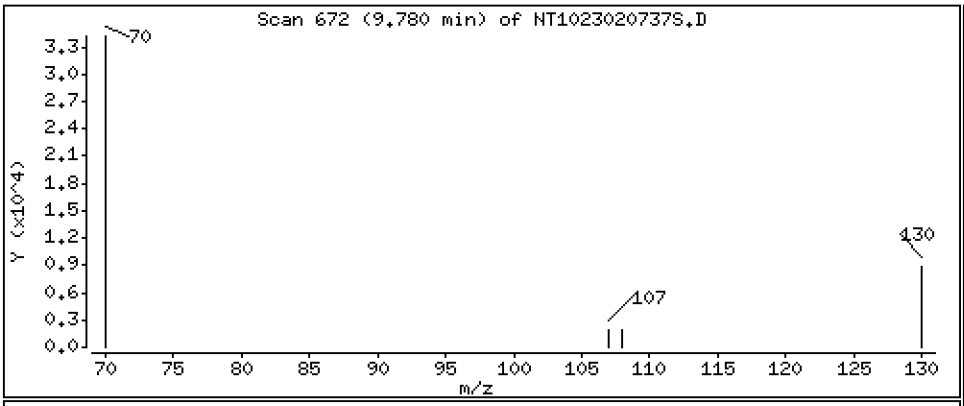
Operator: DSD

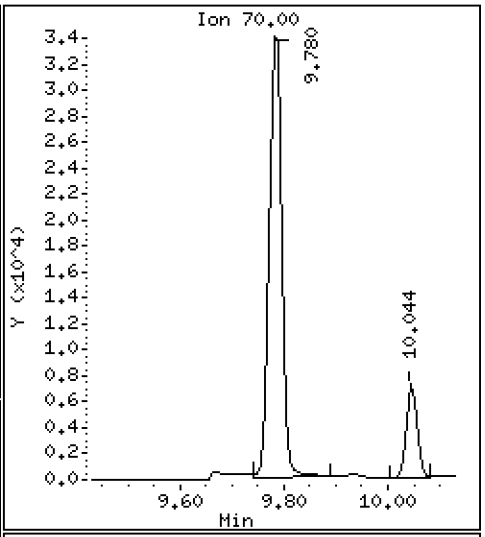
Column phase: ZB-5msi

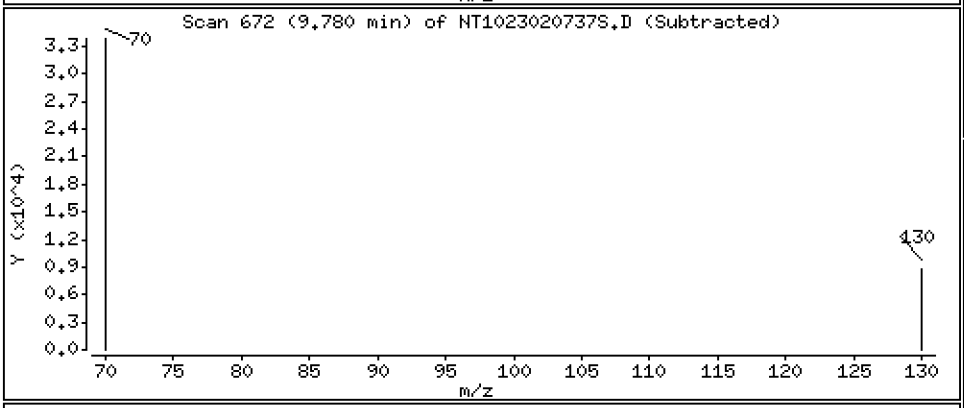
Column diameter: 0.25

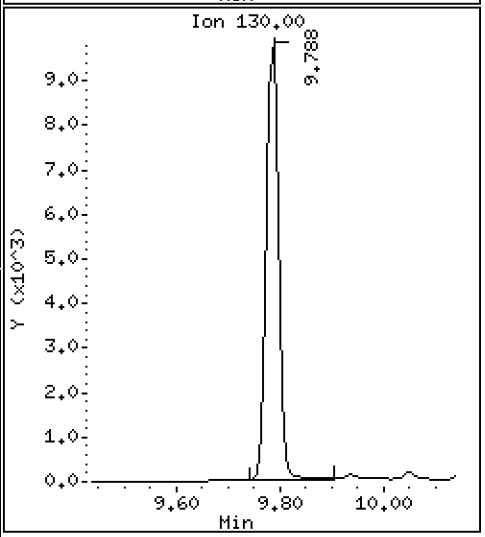
16 N-Nitroso-di-n-propylamine

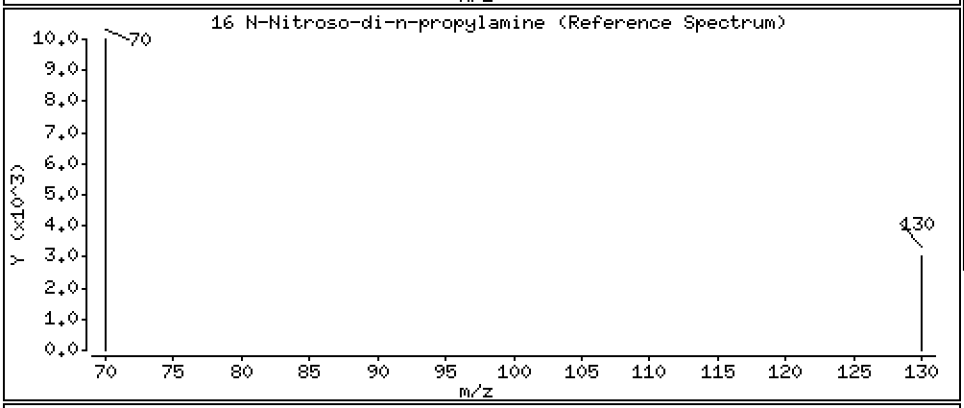
Concentration: 2.698 ug/L

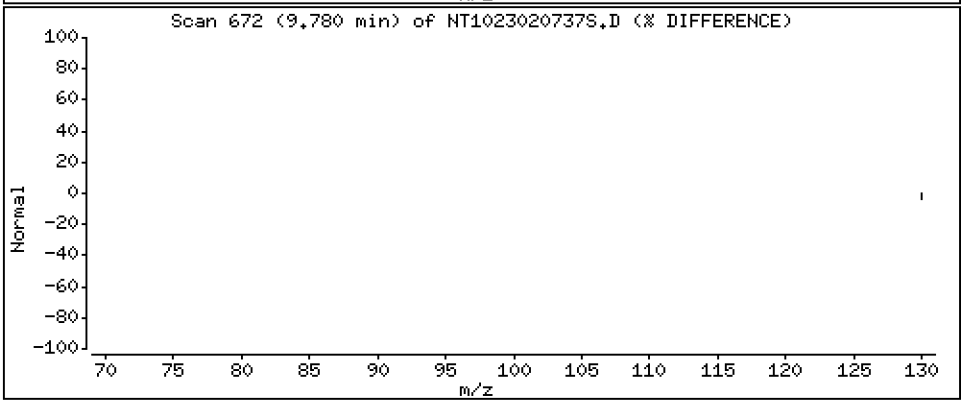












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Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

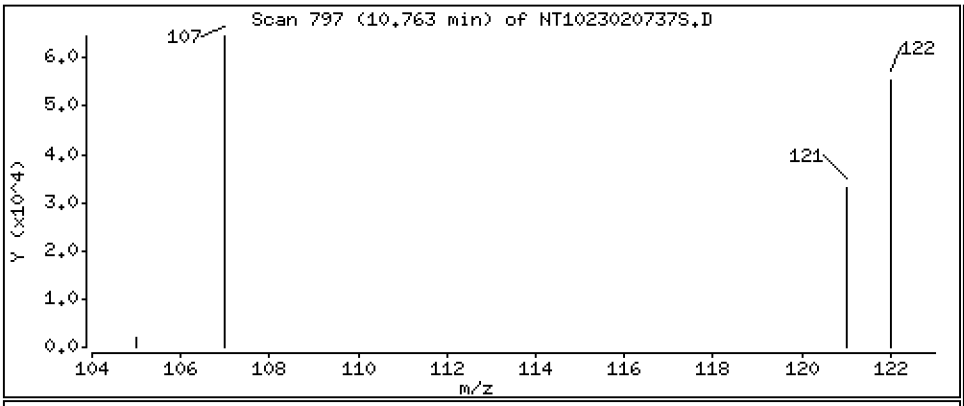
Operator: DSD

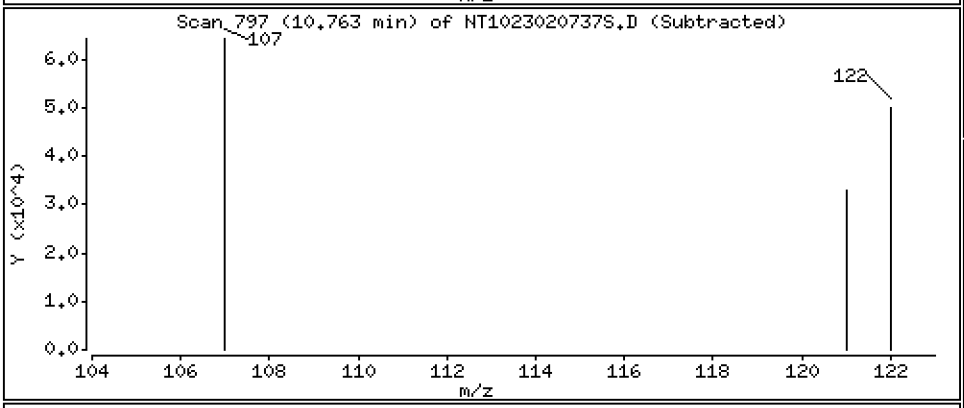
Column phase: ZB-5msi

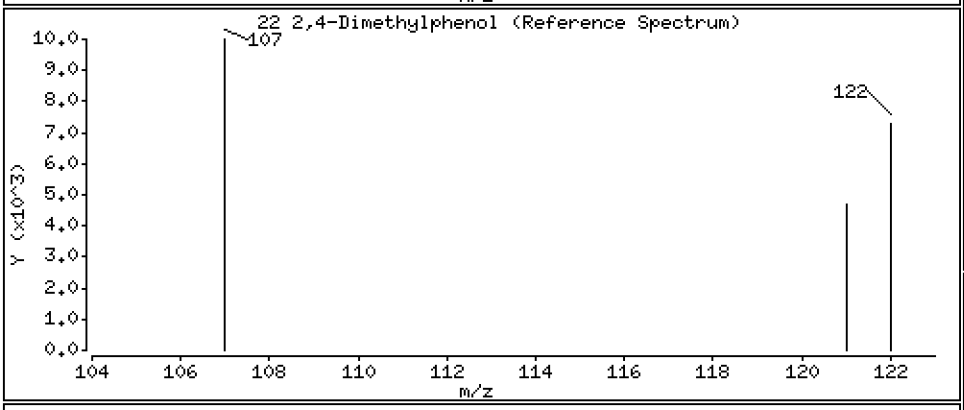
Column diameter: 0.25

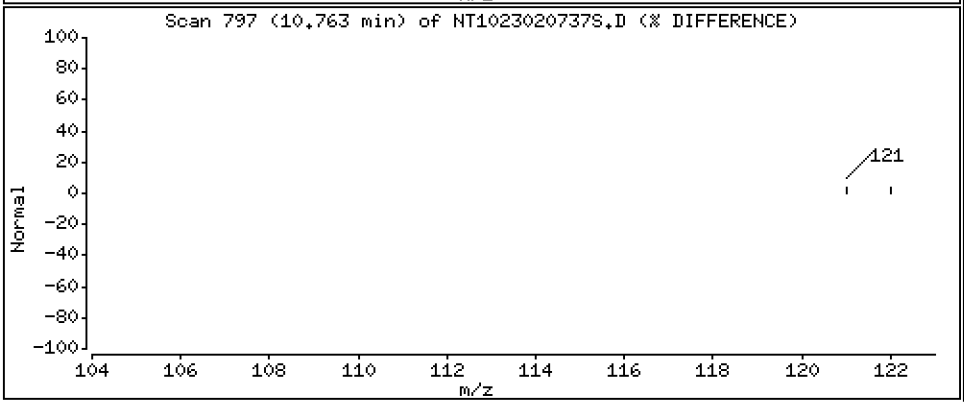
22 2,4-Dimethylphenol

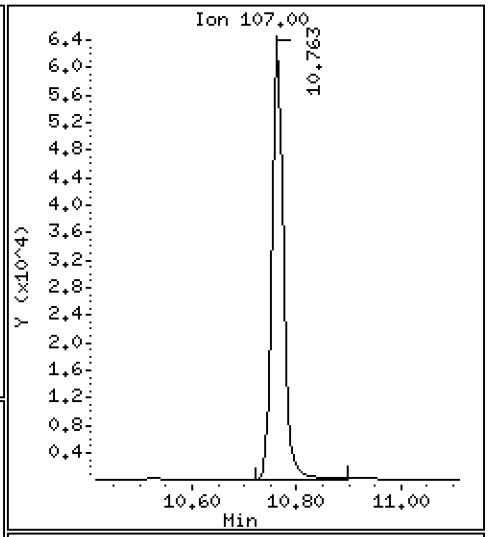
Concentration: 3.096 ug/L

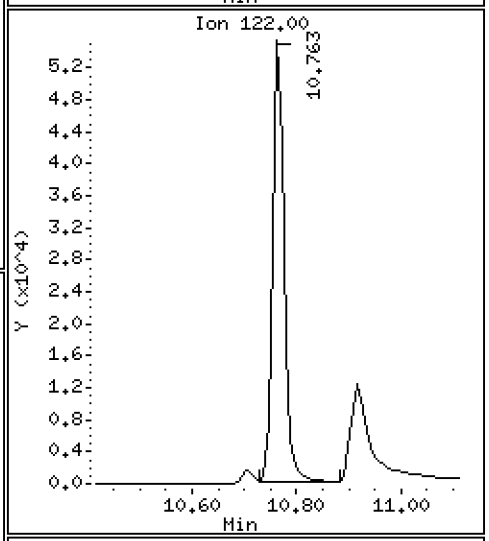


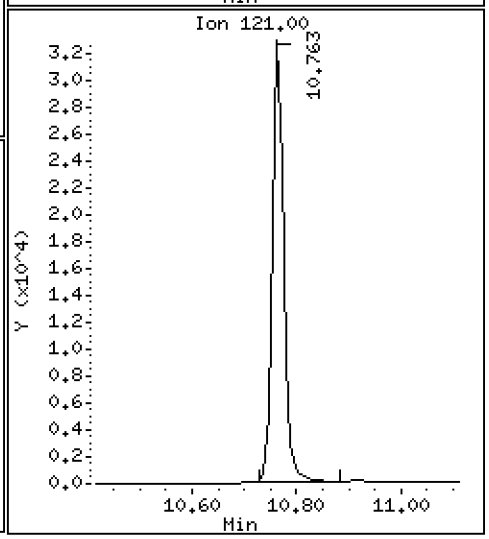












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Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

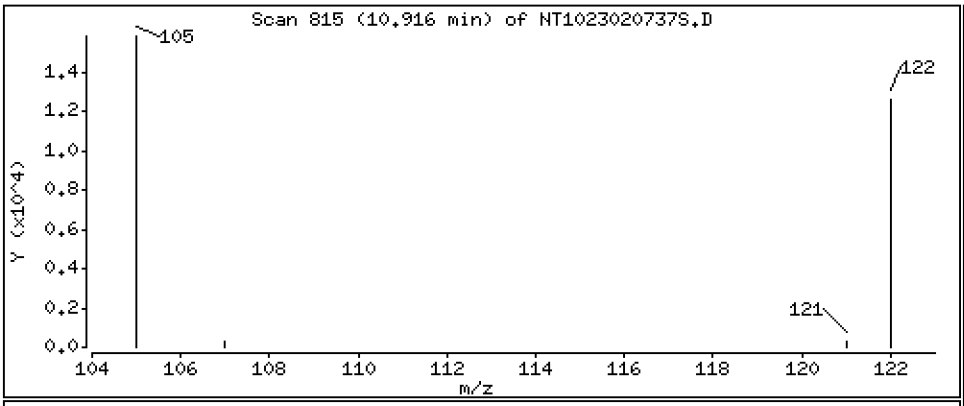
Operator: DSD

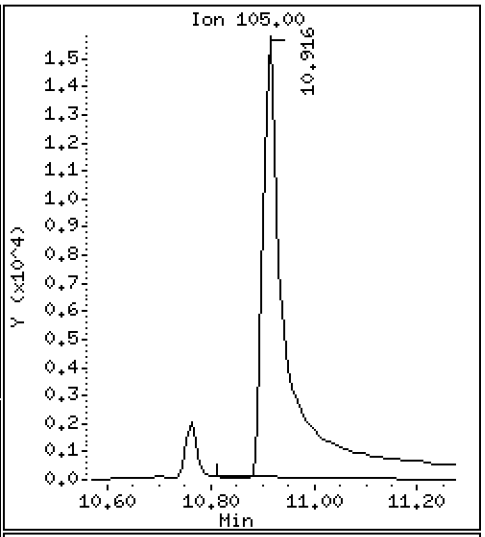
Column phase: ZB-5msi

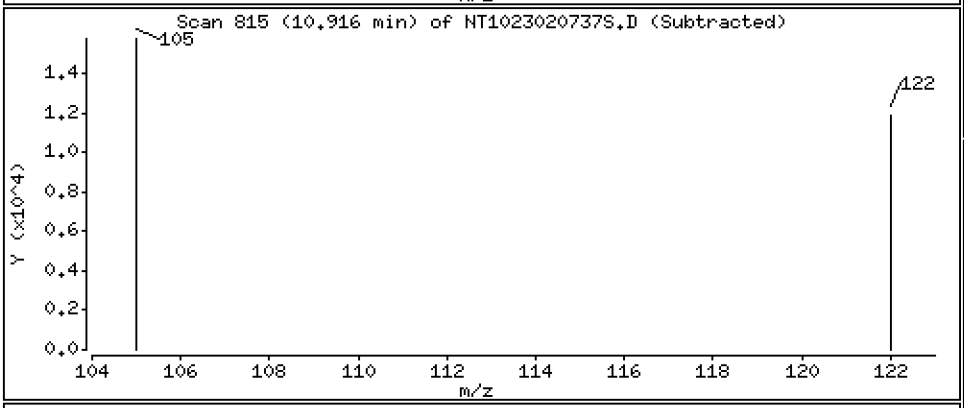
Column diameter: 0.25

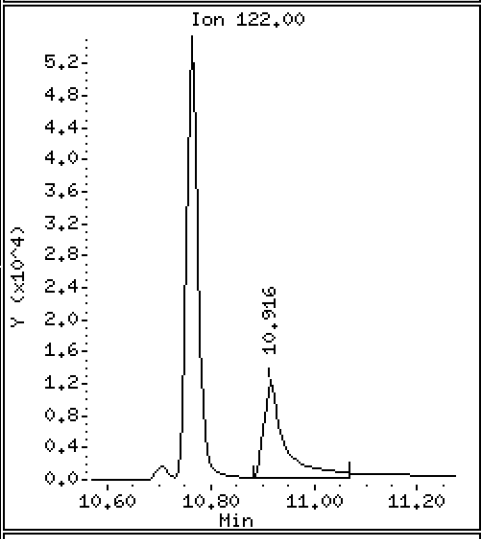
24 Benzoic acid

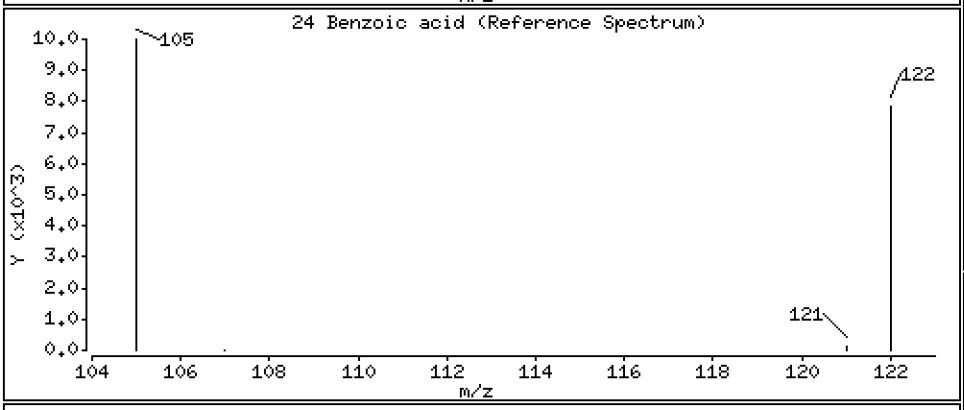
Concentration: 3.649 ug/L

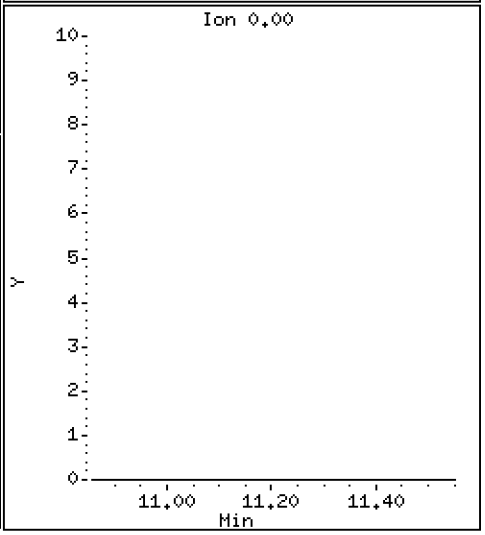


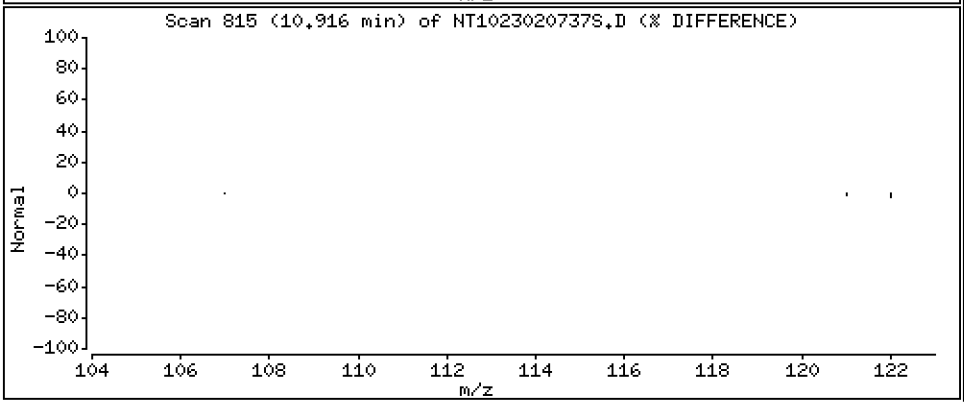












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Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

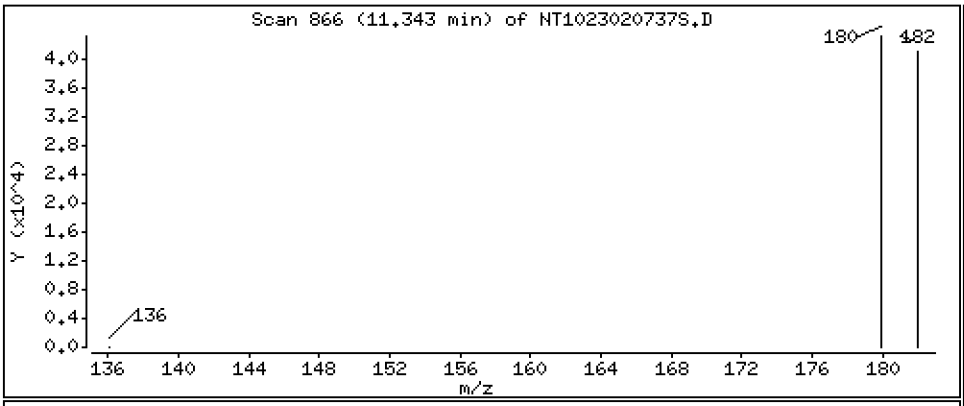
Operator: DSD

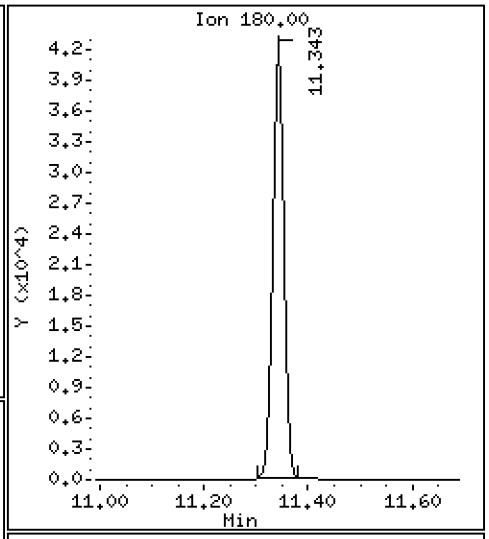
Column phase: ZB-5msi

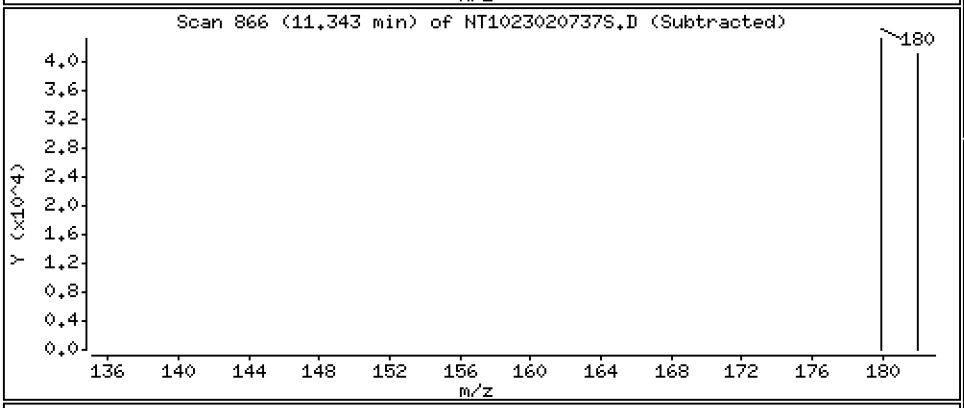
Column diameter: 0.25

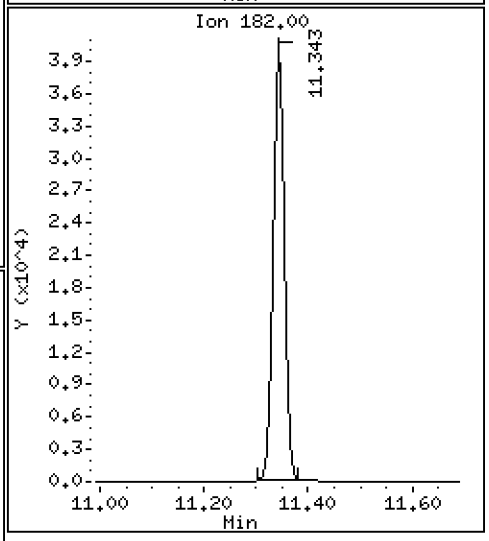
26 1,2,4-Trichlorobenzene

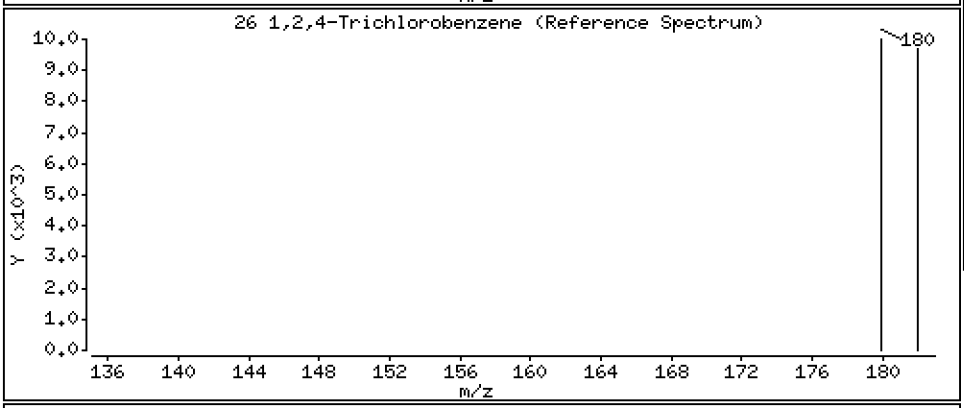
Concentration: 2.222 ug/L

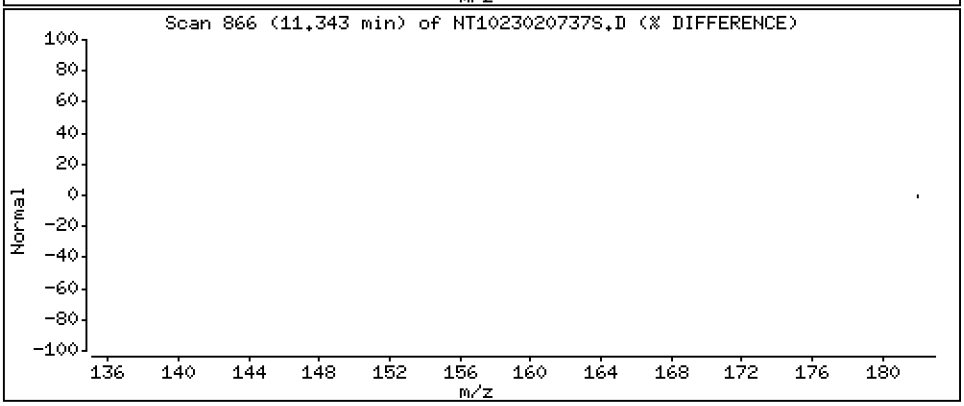












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Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

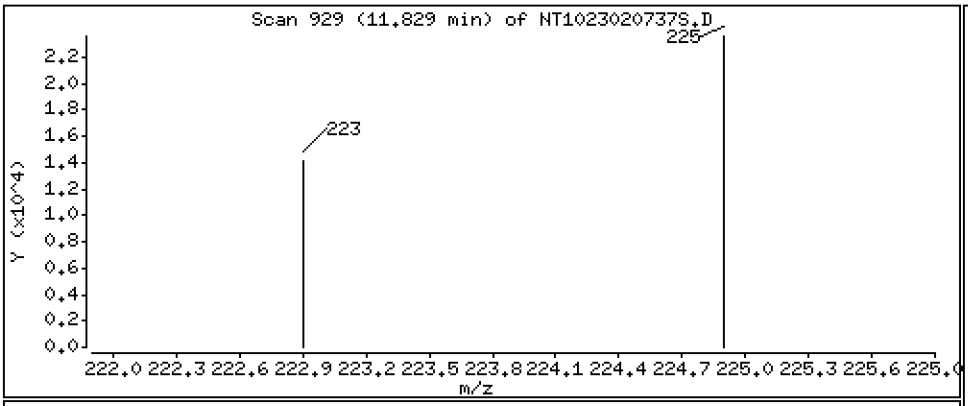
Operator: DSD

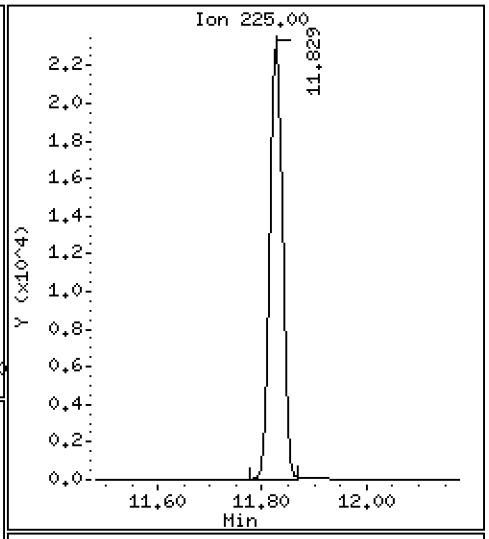
Column phase: ZB-5msi

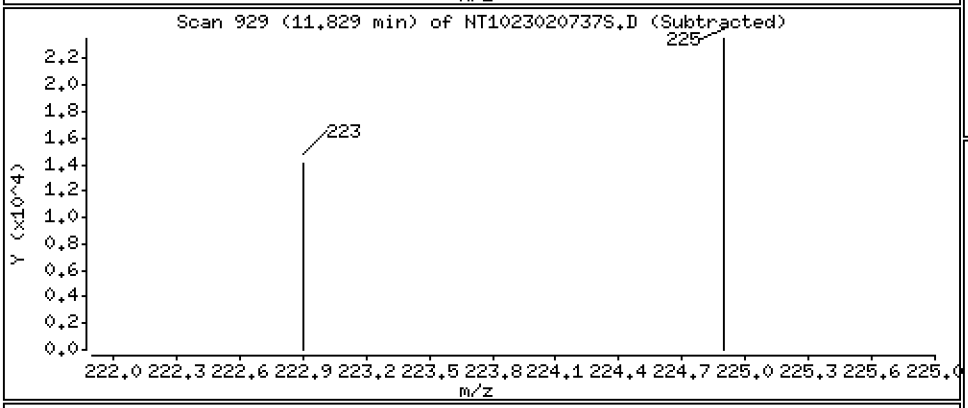
Column diameter: 0.25

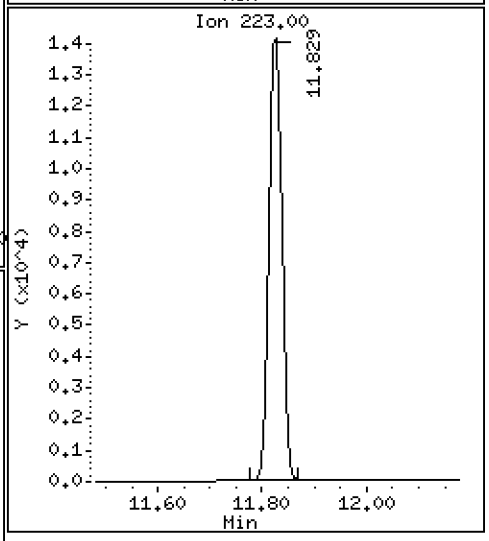
30 Hexachlorobutadiene

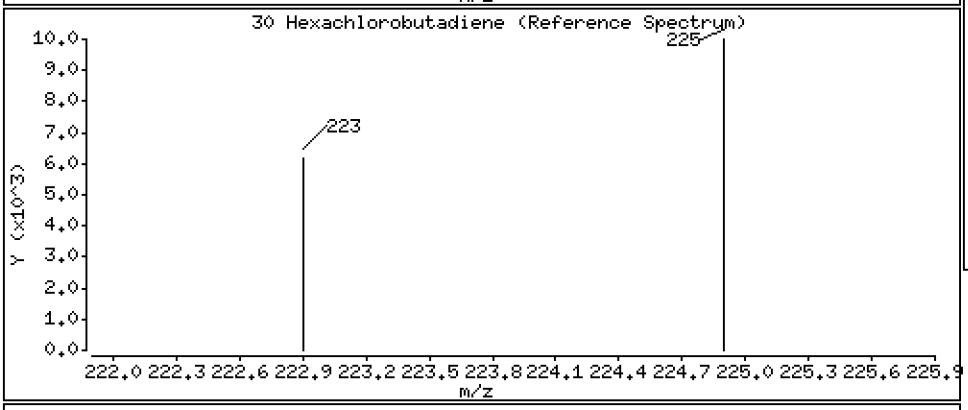
Concentration: 2.320 ug/L

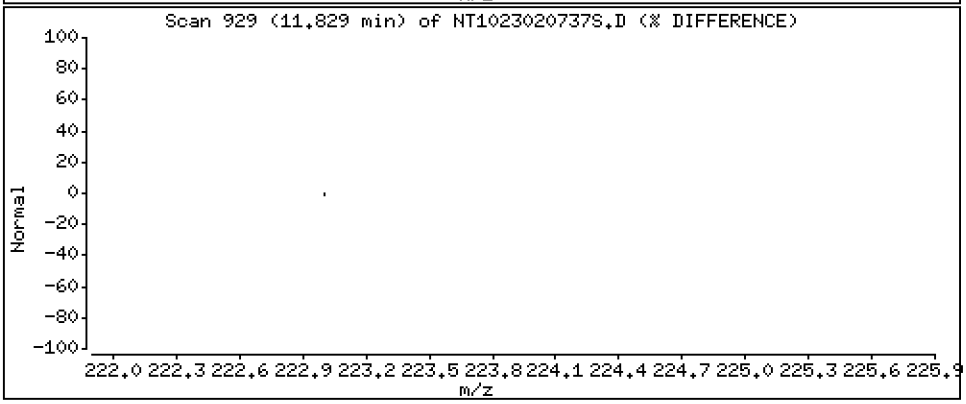












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020737S.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

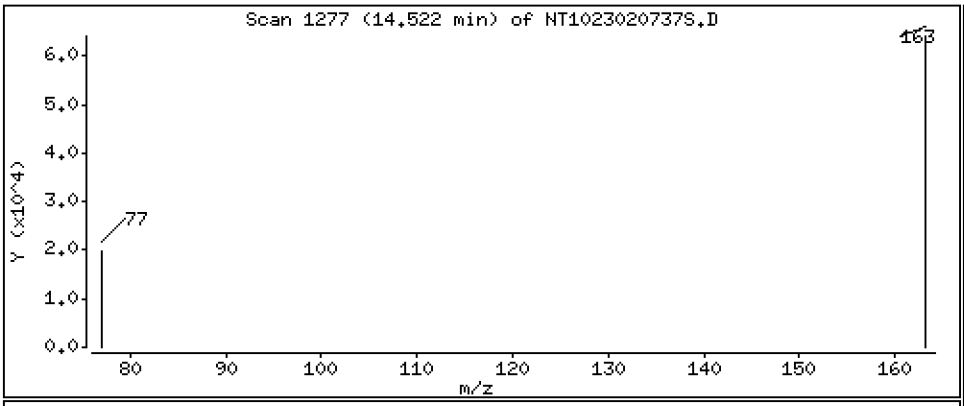
Operator: DSD

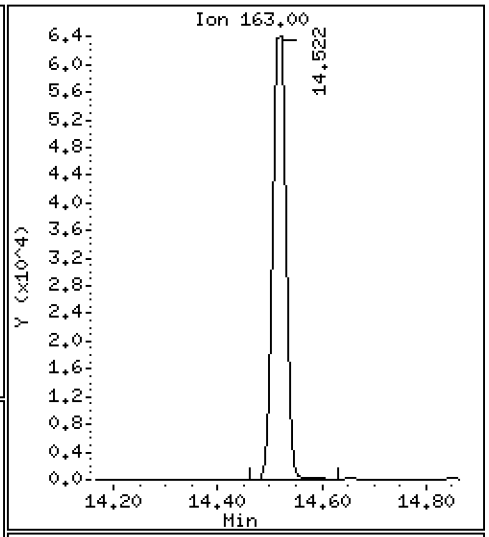
Column phase: ZB-5msi

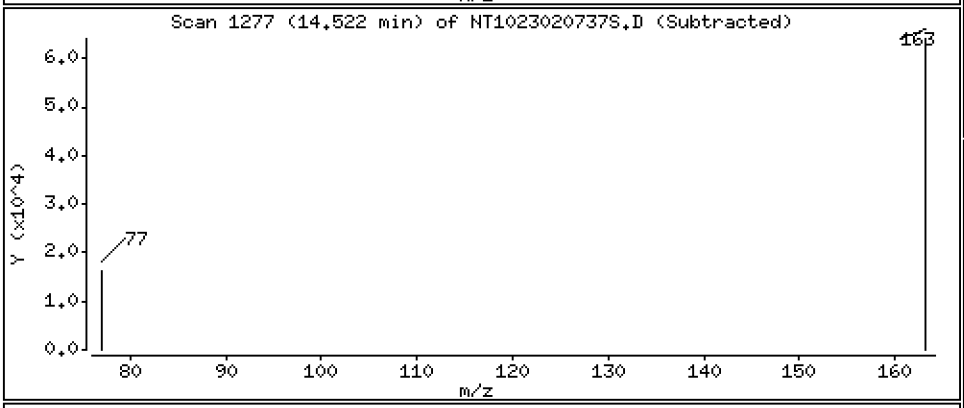
Column diameter: 0.25

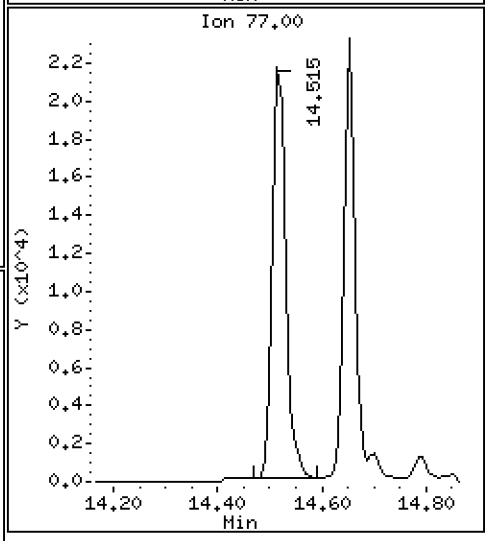
39 Dimethylphthalate

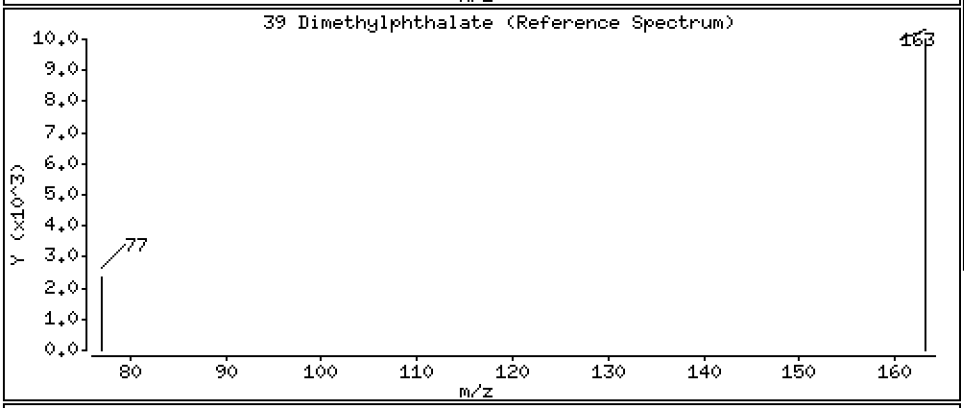
Concentration: 2.529 ug/L

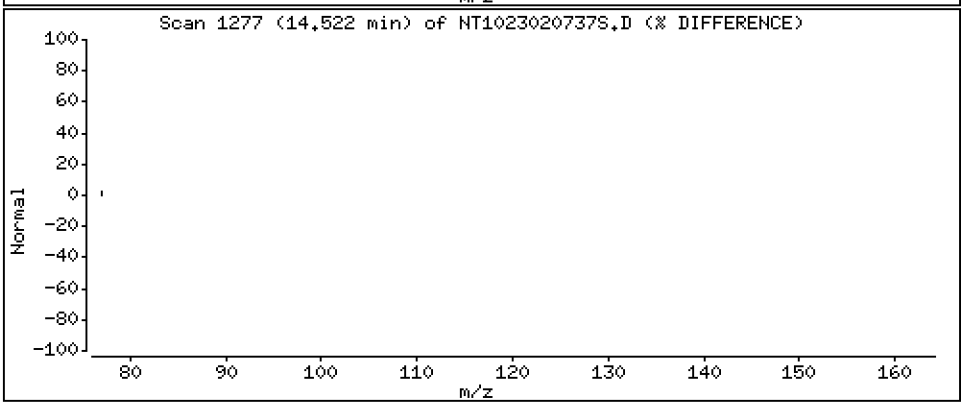












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Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

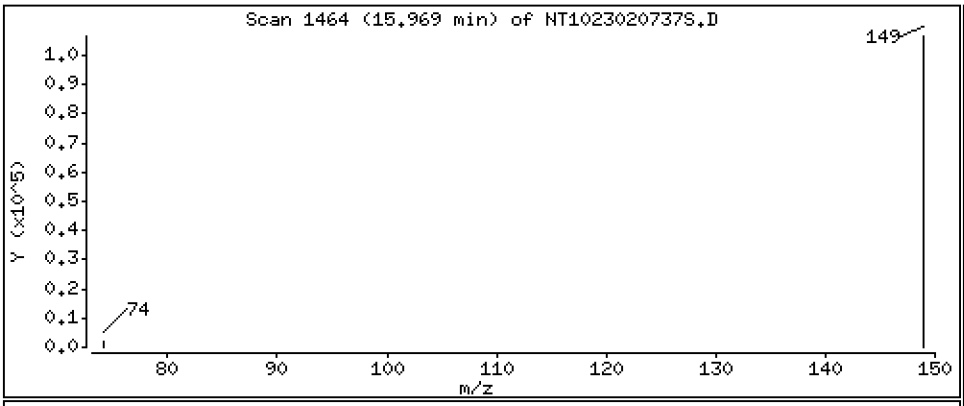
Operator: DSD

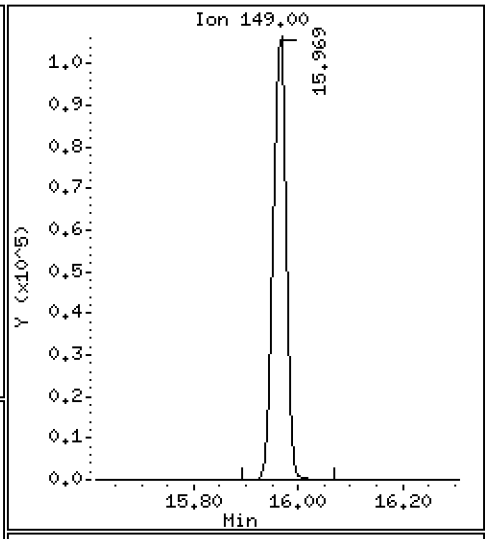
Column phase: ZB-5msi

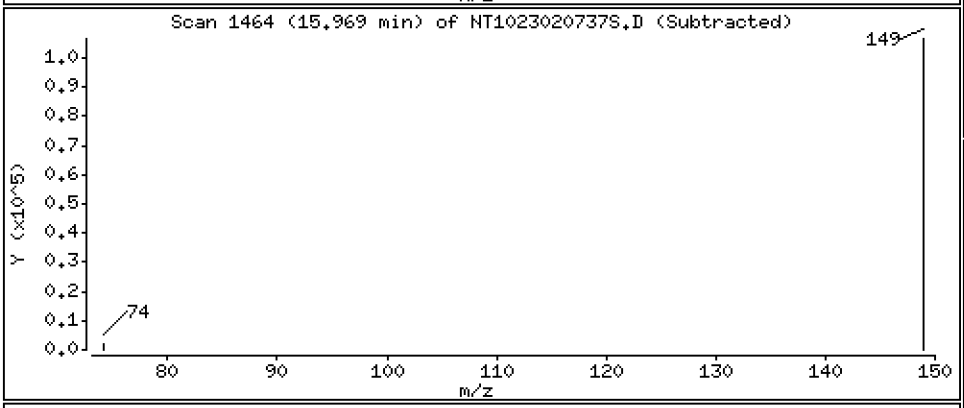
Column diameter: 0.25

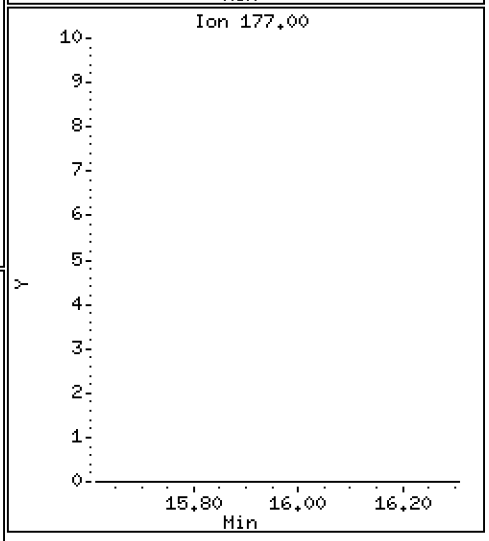
50 Diethylphthalate

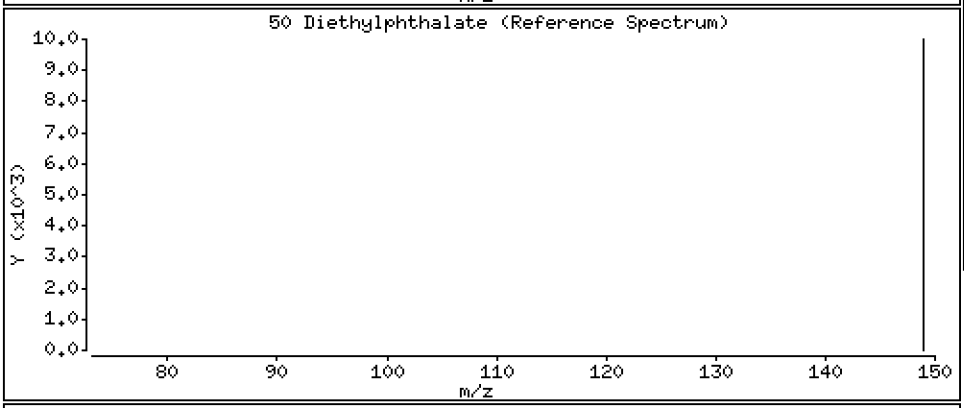
Concentration: 2.794 ug/L

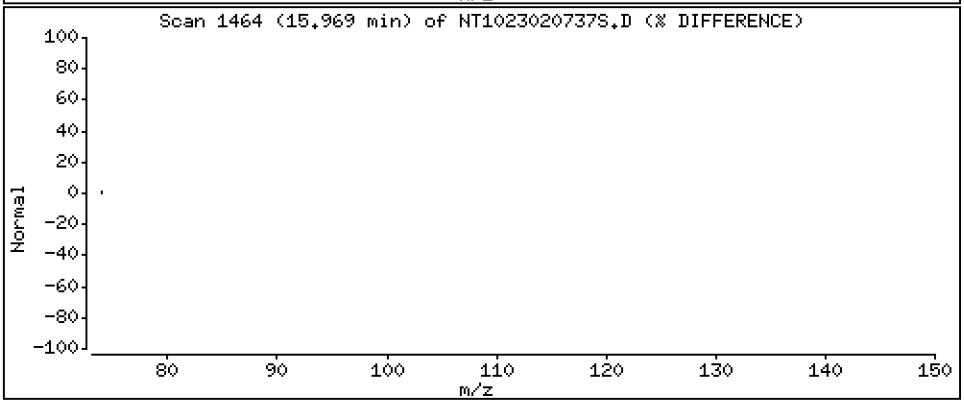












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Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

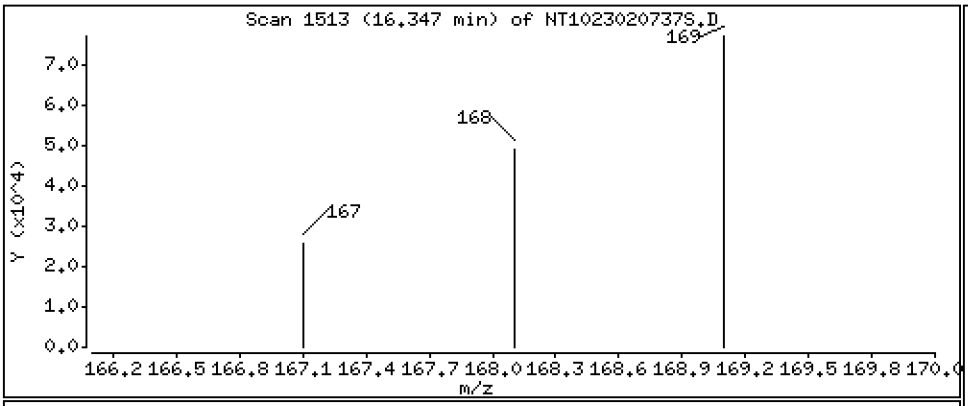
Operator: DSD

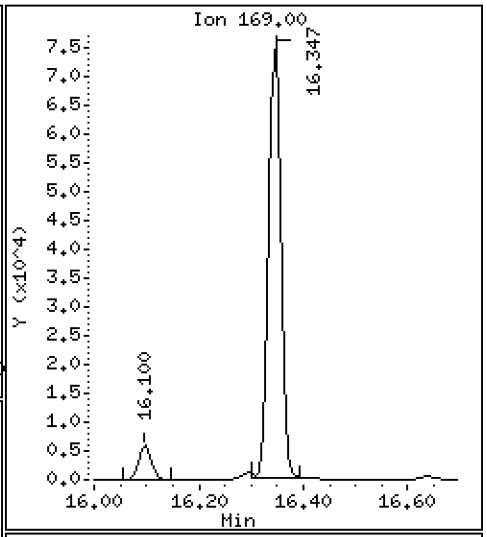
Column phase: ZB-5msi

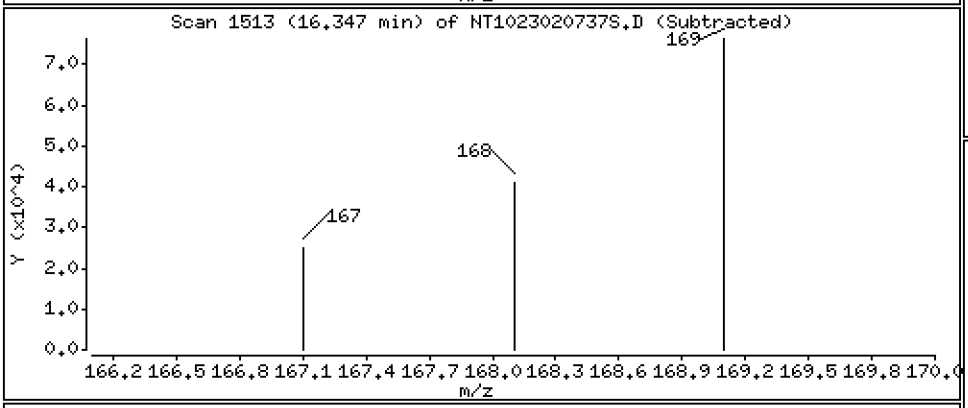
Column diameter: 0.25

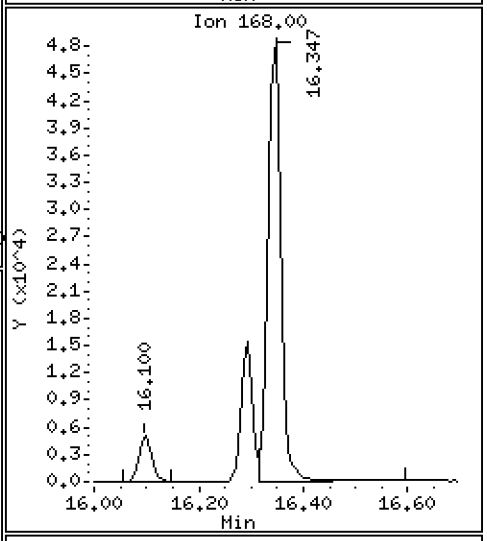
54 N-Nitrosodiphenylamine

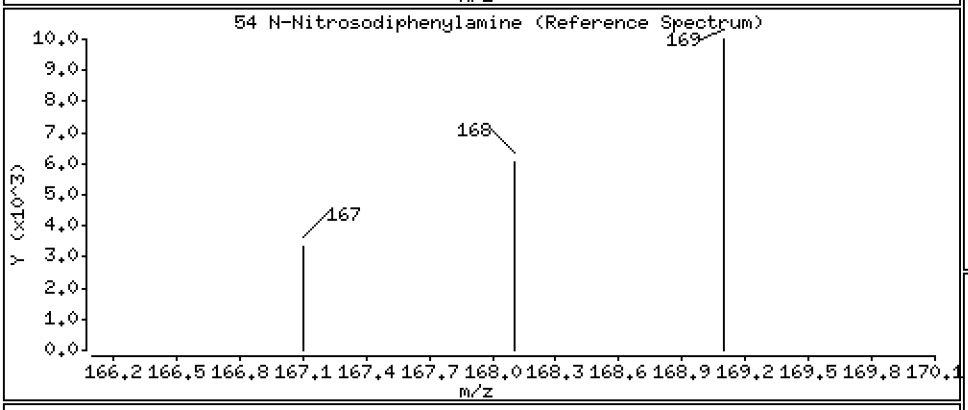
Concentration: 2.101 ug/L

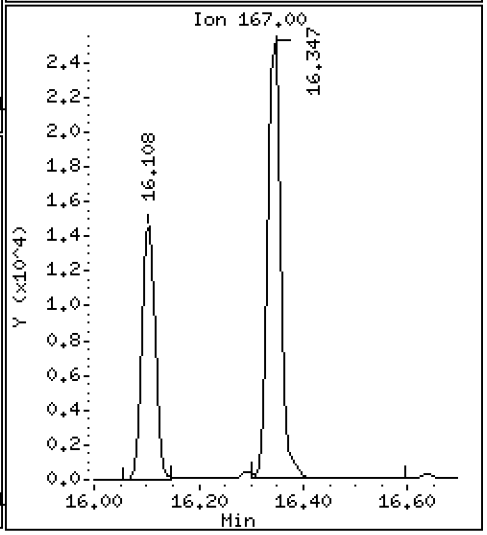


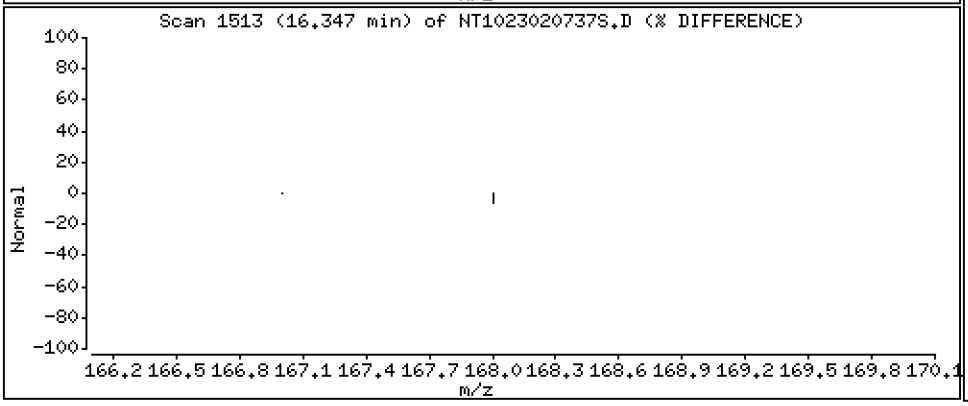












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020737S.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

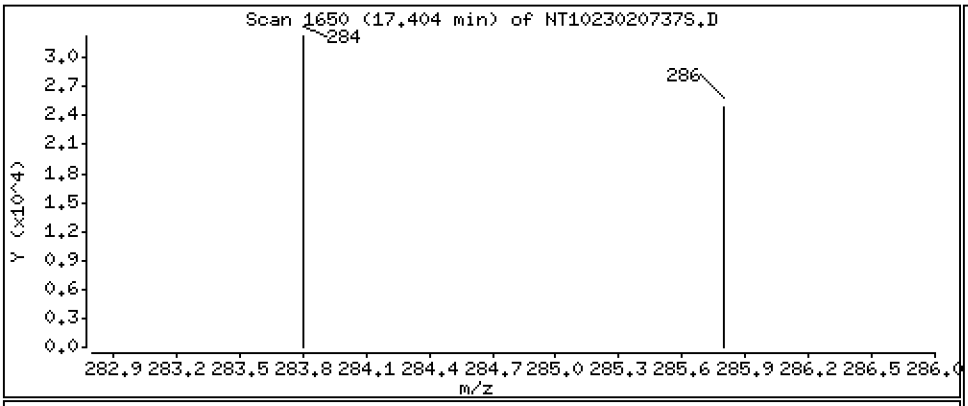
Operator: DSD

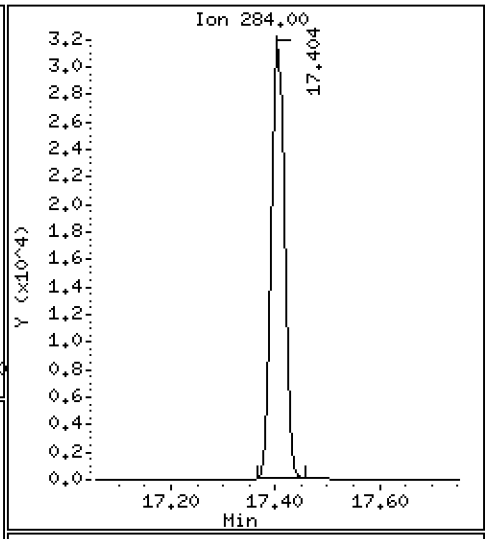
Column phase: ZB-5msi

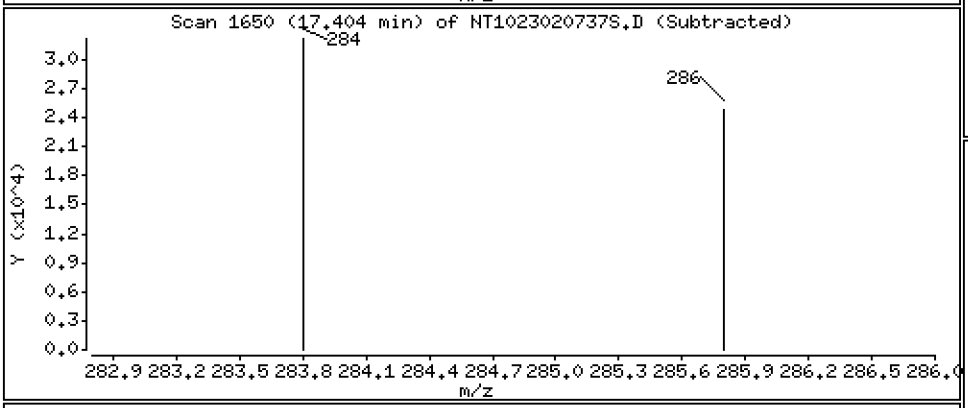
Column diameter: 0.25

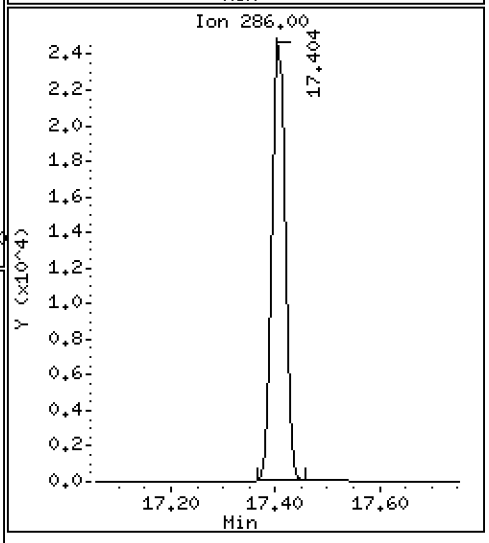
57 Hexachlorobenzene

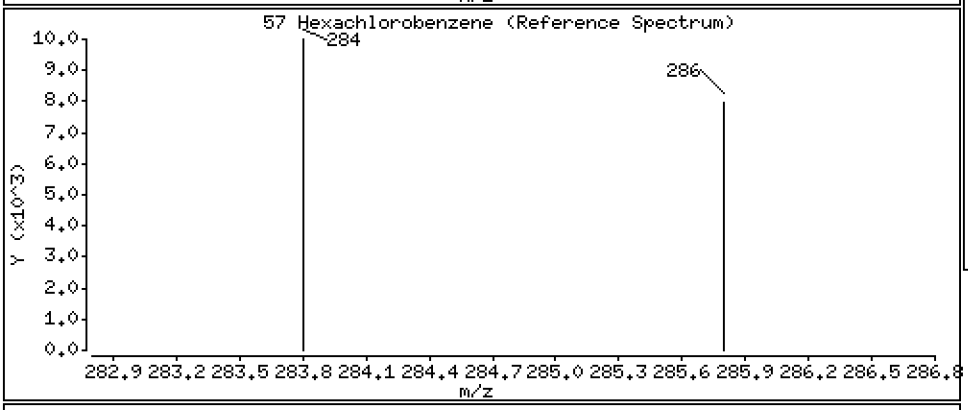
Concentration: 2.254 ug/L

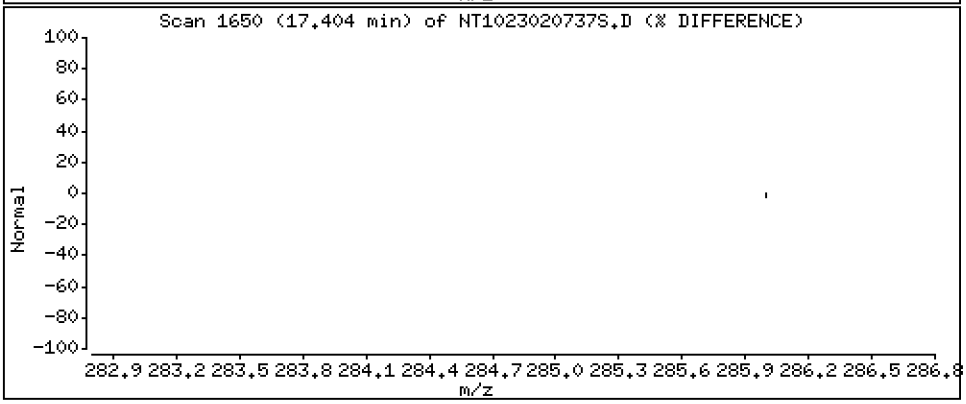












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020737S.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

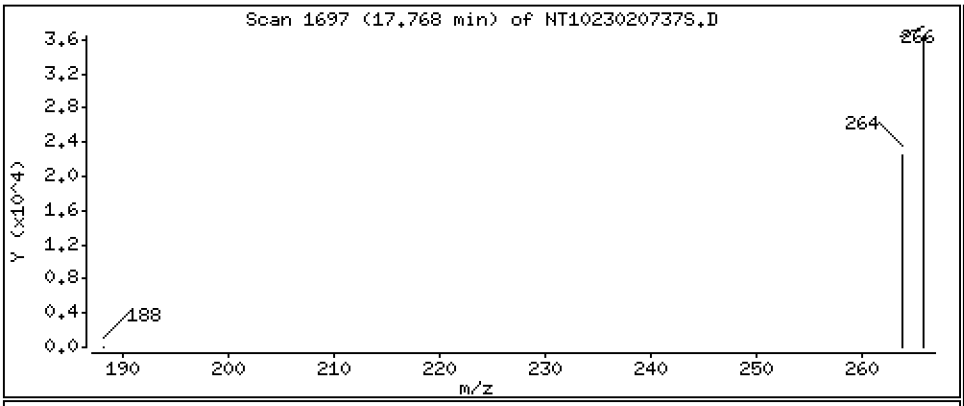
Operator: DSD

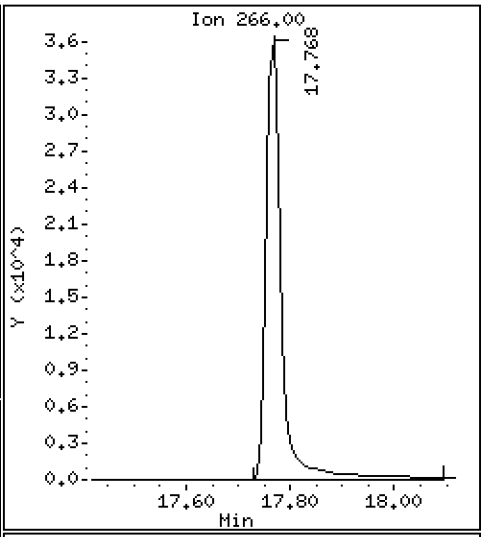
Column phase: ZB-5msi

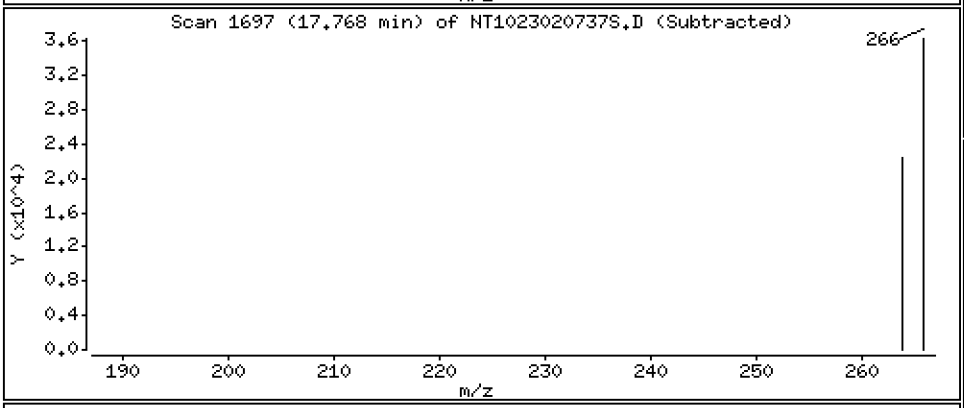
Column diameter: 0.25

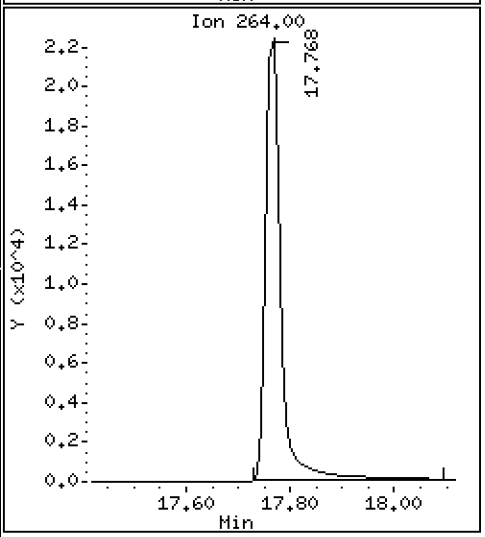
58 Pentachlorophenol

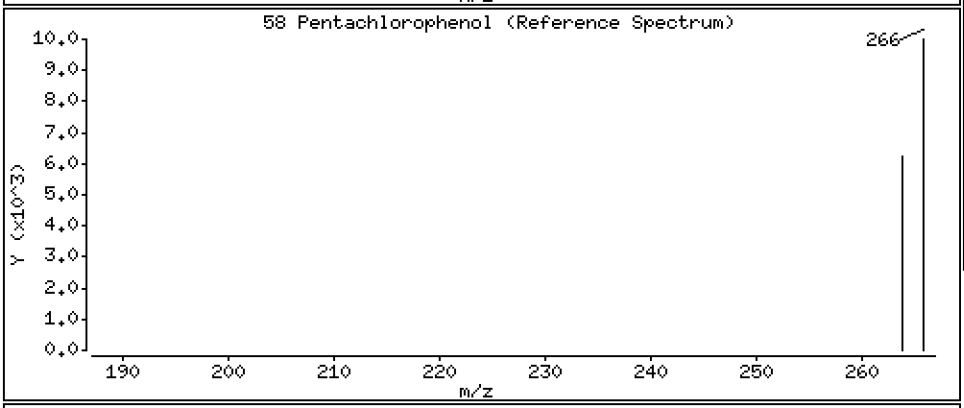
Concentration: 7.953 ug/L

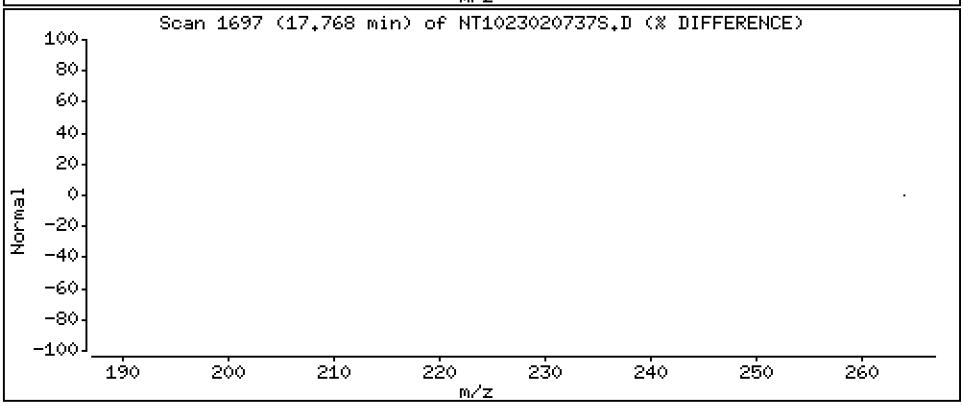












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207375.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

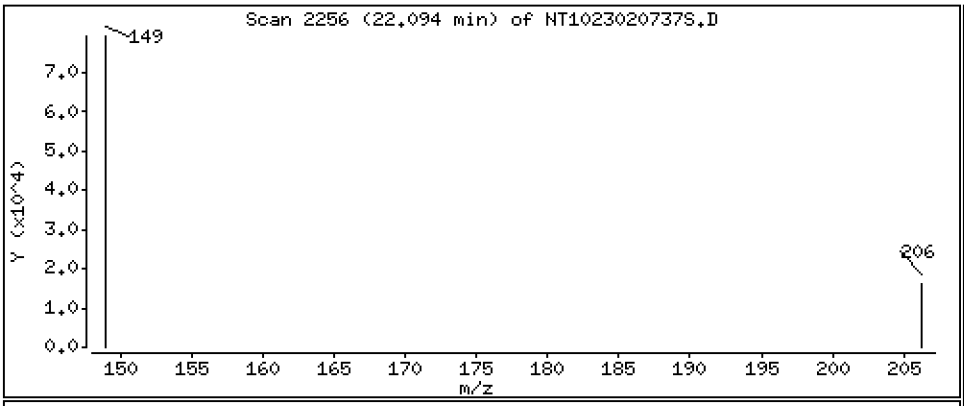
Operator: DSD

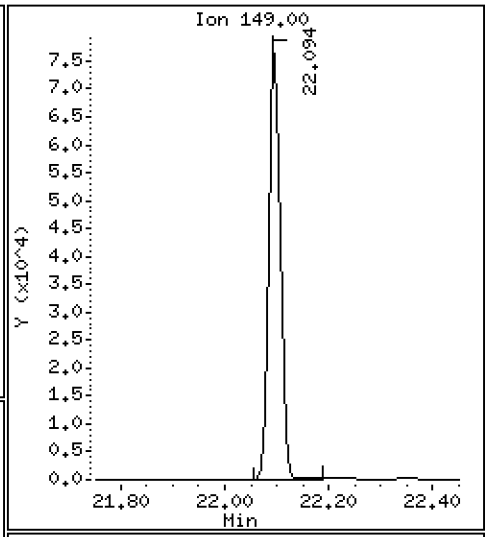
Column phase: ZB-5msi

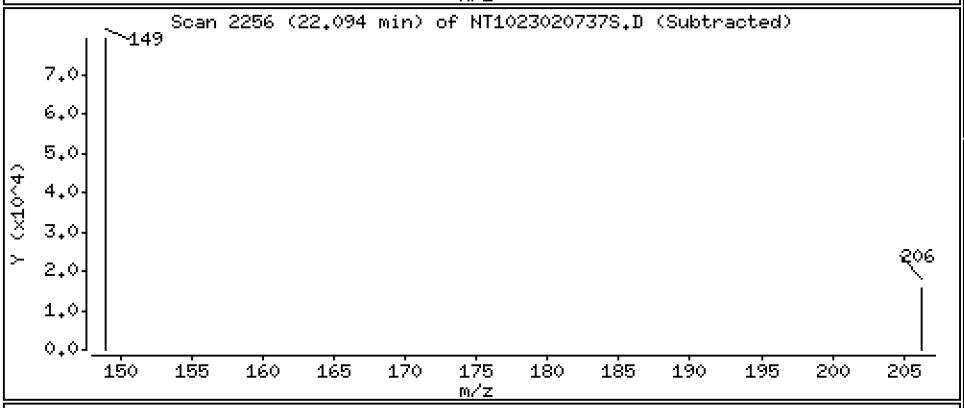
Column diameter: 0.25

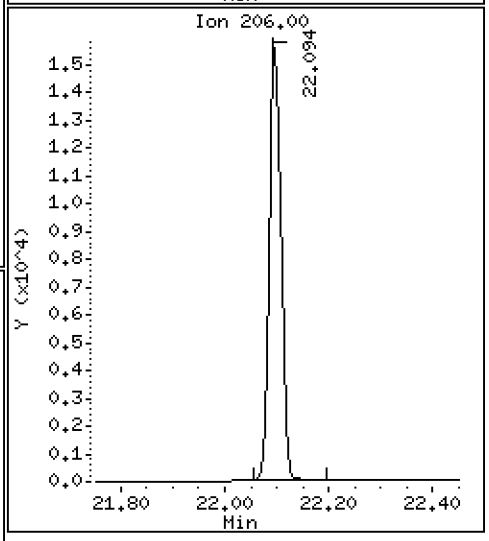
67 Butylbenzylphthalate

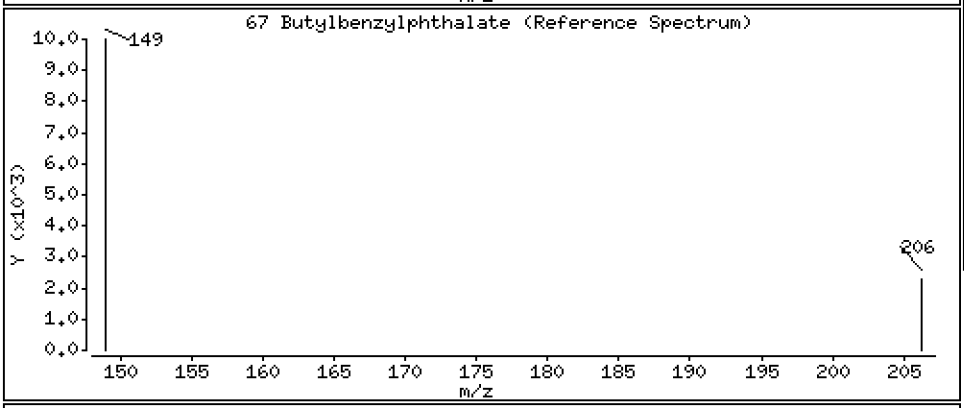
Concentration: 2.767 ug/L

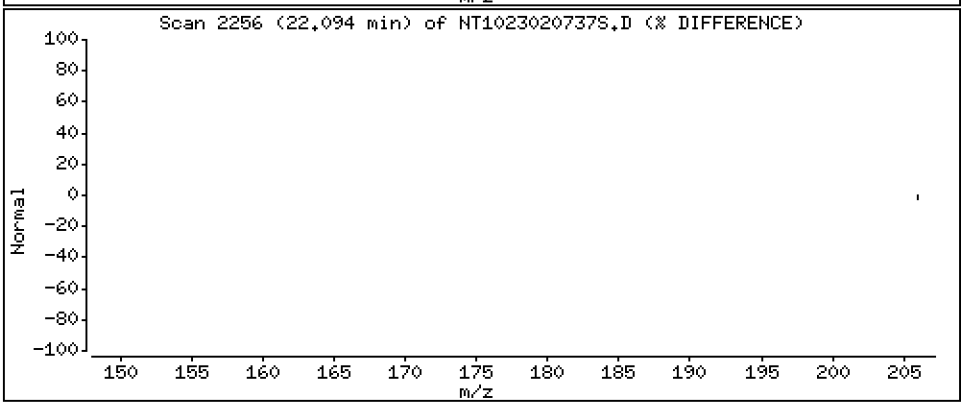












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020737S.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

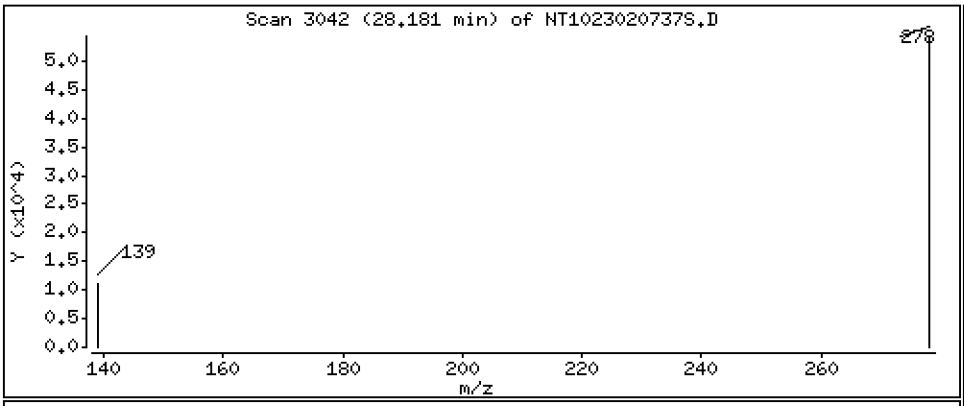
Operator: DSD

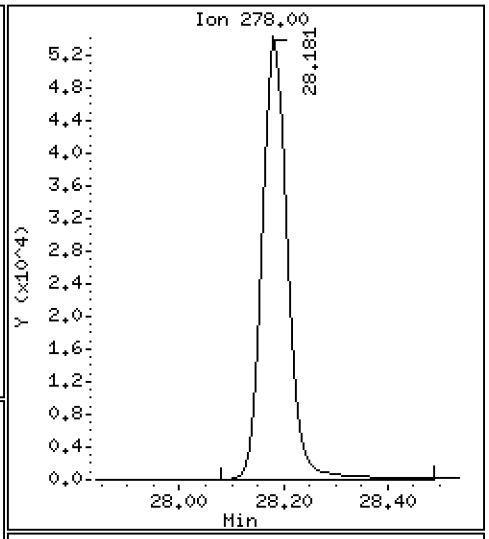
Column phase: ZB-5msi

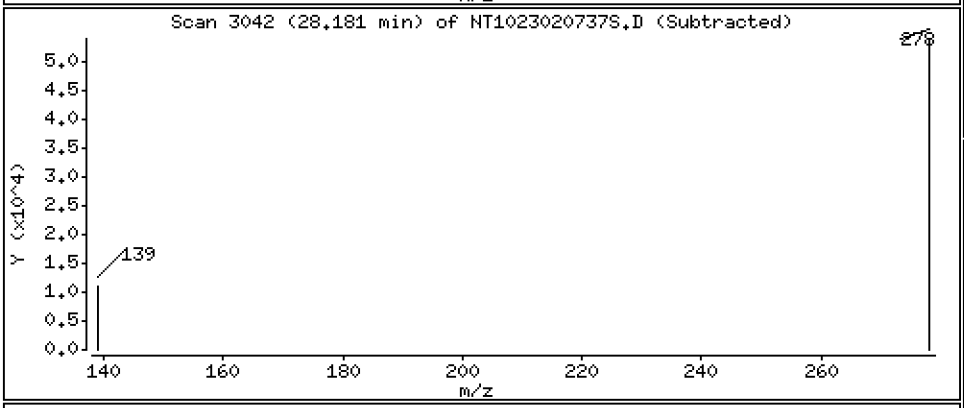
Column diameter: 0.25

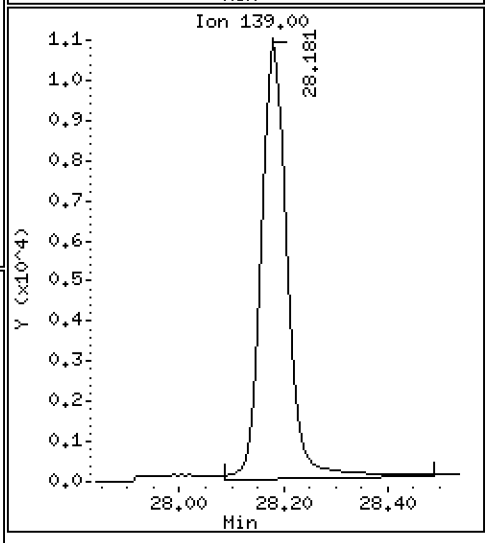
79 Dibenzo(a,h)anthracene

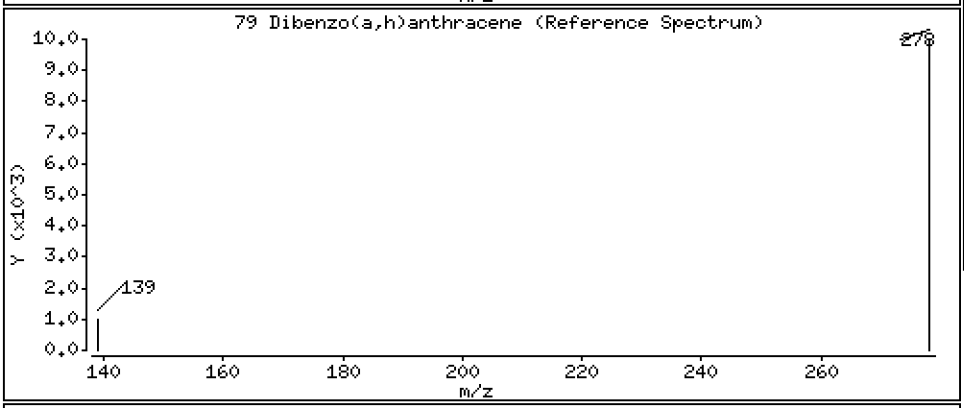
Concentration: 2.143 ug/L

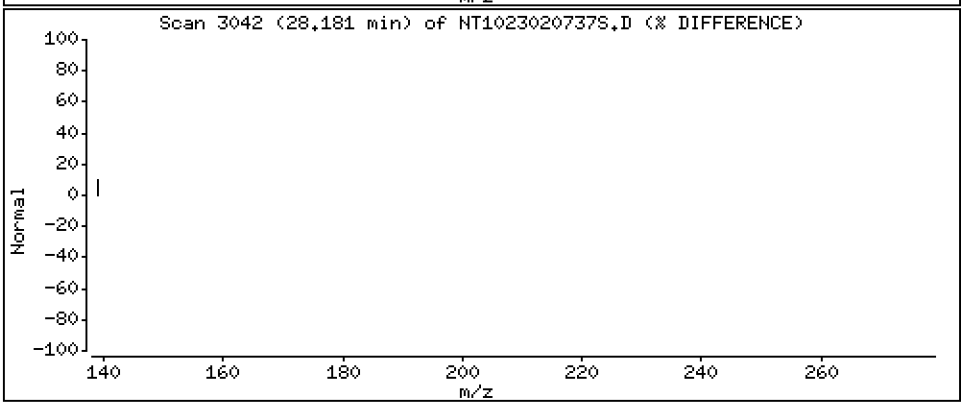












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207375.D

Date : 08-FEB-2023 10:35

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BS2

Volume Injected (uL): 1.0

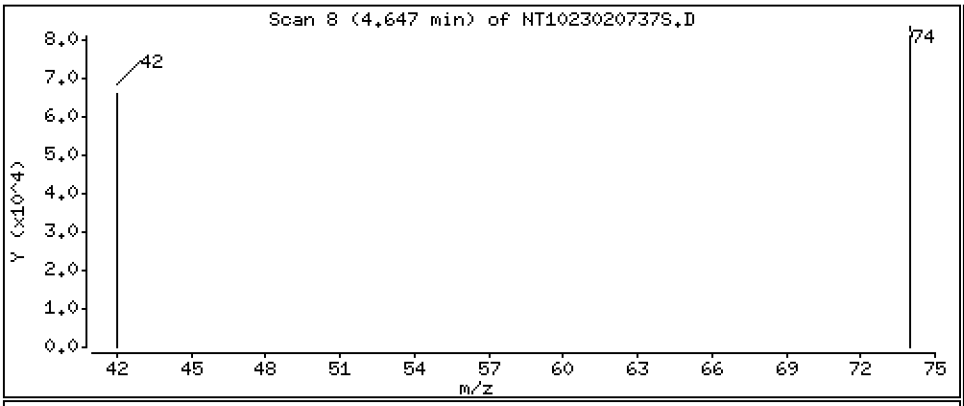
Operator: DSD

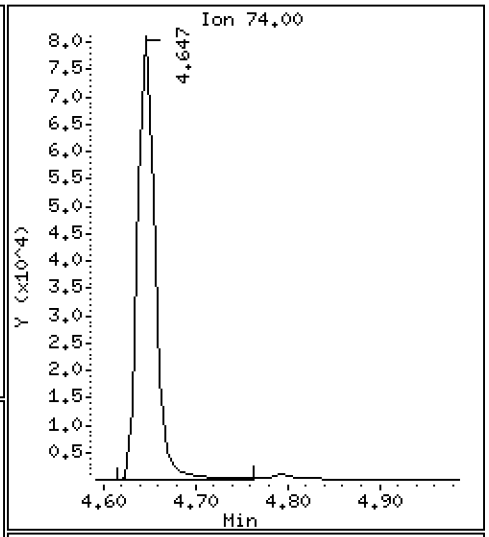
Column phase: ZB-5msi

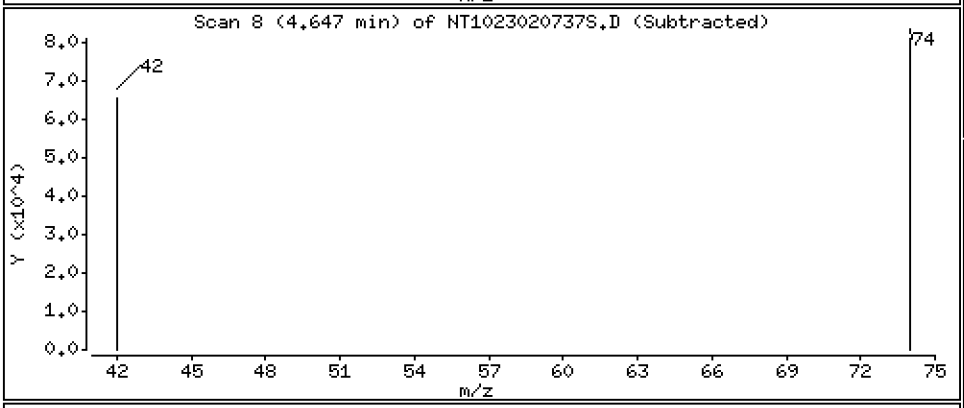
Column diameter: 0.25

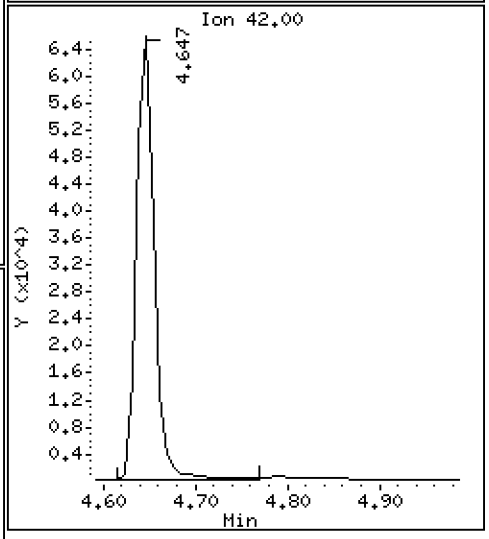
90 N-Nitrosodimethylamine

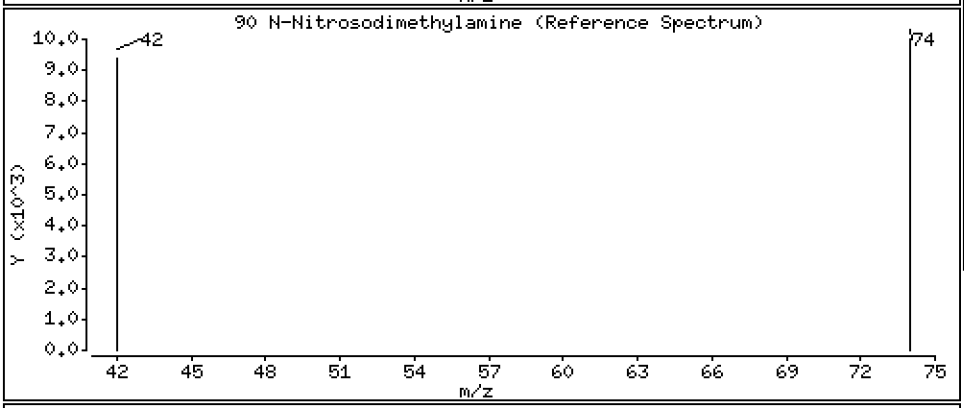
Concentration: 6.040 ug/L

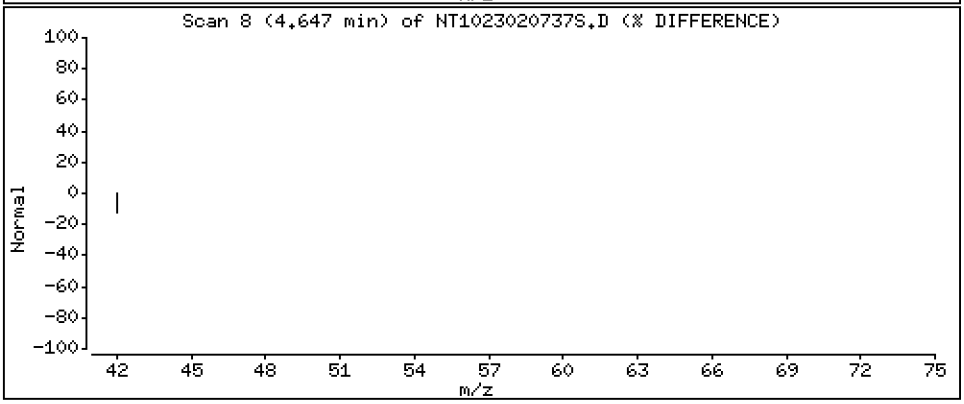












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020737S.D
Lab Smp Id: BLA0064-BS2
Inj Date : 08-FEB-2023 10:35 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLA0064-BS2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.785	6.777	(0.756)	97608	3.58104	3.581(R)
3	Phenol	94	8.361	8.369	(0.932)	97460	2.37127	2.371
7	1,3-Dichlorobenzene	146	8.903	8.902	(0.992)	79061	2.13603	2.136
* 8	1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	89632	4.00000	
9	1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	79181	2.18807	2.188
11	Benzyl alcohol	79	9.236	9.236	(1.029)	60793	3.03206	3.032
12	1,2-Dichlorobenzene	146	9.353	9.353	(1.042)	79197	2.24231	2.242
13	2-Methylphenol	108	9.461	9.461	(1.054)	59174	2.10893	2.109
15	4-Methylphenol	108	9.741	9.733	(1.086)	69421	2.42575	2.426
16	N-Nitroso-di-n-propylamine	70	9.780	9.780	(1.090)	55121	2.69809	2.698
22	2,4-Dimethylphenol	107	10.763	10.763	(0.942)	97034	3.09647	3.096
24	Benzoic acid	105	10.915	10.924	(0.955)	53885	3.64856	3.649(MH)
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	65276	2.22231	2.222
* 27	Naphthalene-d8	136	11.427	11.427	(1.000)	356743	4.00000	
30	Hexachlorobutadiene	225	11.829	11.829	(1.035)	37209	2.32018	2.320
39	Dimethylphthalate	163	14.522	14.514	(0.968)	106462	2.52938	2.529
* 42	Acenaphthene-d10	162	15.009	15.009	(1.000)	180593	4.00000	
50	Diethylphthalate	149	15.968	15.960	(1.064)	177130	2.79434	2.794
54	N-Nitrosodiphenylamine	169	16.346	16.346	(0.907)	116096	2.10070	2.101
57	Hexachlorobenzene	284	17.404	17.404	(0.966)	53020	2.25426	2.254

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.768	17.768	(0.986)	70164	7.95280	7.953
*	59 Phenanthrene-d10	188	18.023	18.023	(1.000)	334413	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.917)	164065	2.70354	2.704(R)
	67 Butylbenzylphthalate	149	22.093	22.101	(0.958)	113489	2.76667	2.767
*	69 Chrysene-d12	240	23.069	23.069	(1.000)	273402	4.00000	
*	77 Perylene-d12	264	25.624	25.631	(1.000)	304782	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.180	28.188	(1.100)	183066	2.14319	2.143
	90 N-Nitrosodimethylamine	74	4.646	4.638	(0.518)	107880	6.03973	6.040

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020737S.D
Lab Smp Id: BLA0064-BS2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	89632	-27.48
27 Naphthalene-d8	454738	227369	909476	356743	-21.55
42 Acenaphthene-d10	223117	111559	446234	180593	-19.06
59 Phenanthrene-d10	408770	204385	817540	334413	-18.19
69 Chrysene-d12	339328	169664	678656	273402	-19.43
77 Perylene-d12	382671	191336	765342	304782	-20.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.01	0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.00
69 Chrysene-d12	23.07	22.57	23.57	23.07	0.00
77 Perylene-d12	25.63	25.13	26.13	25.62	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020737S.D

Lab ID: BLA0064-BS2
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 10:35

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

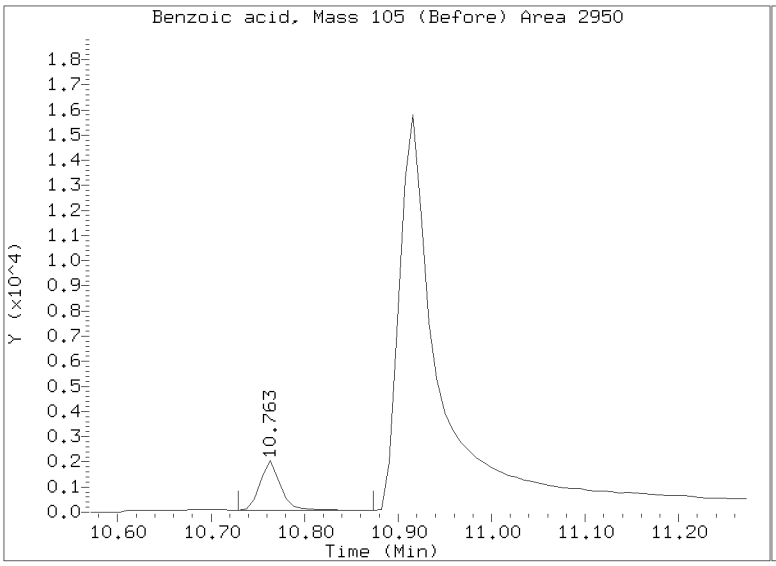
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

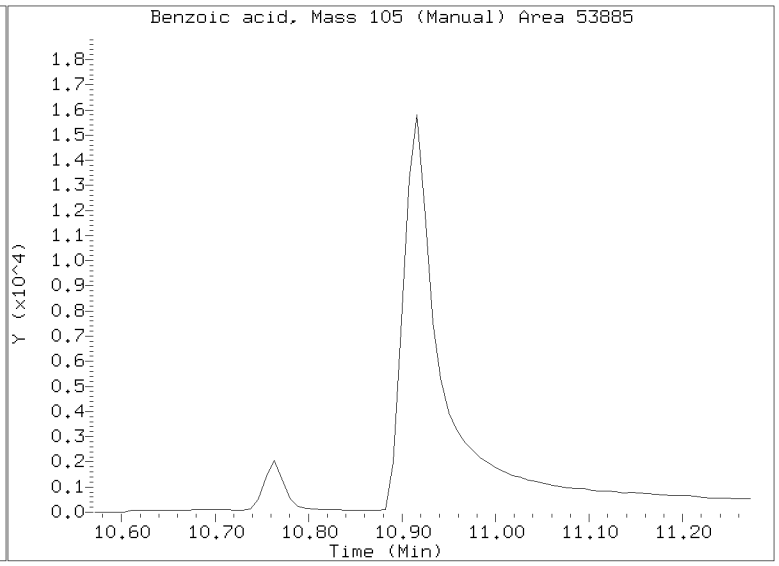
Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

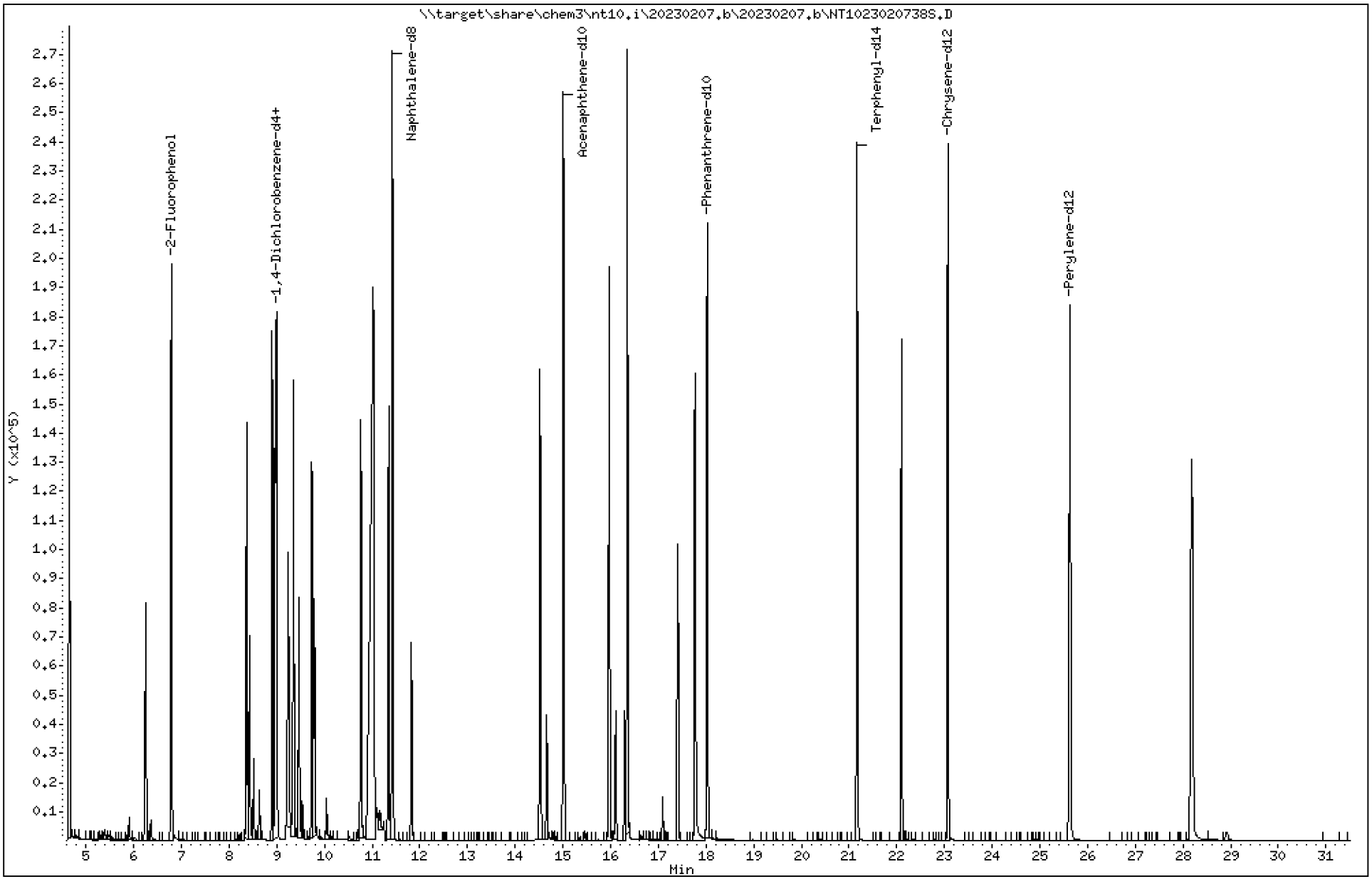
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020737S.D
Injection Date: 08-FEB-2023 10:35
Lab ID:BLA0064-BS2 Client ID:
Report Date: 02/09/2023 14:59





Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207388.D
Date : 08-FEB-2023 11:13
Client ID:
Sample Info: BLA0064-BSD2
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: DSD
Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

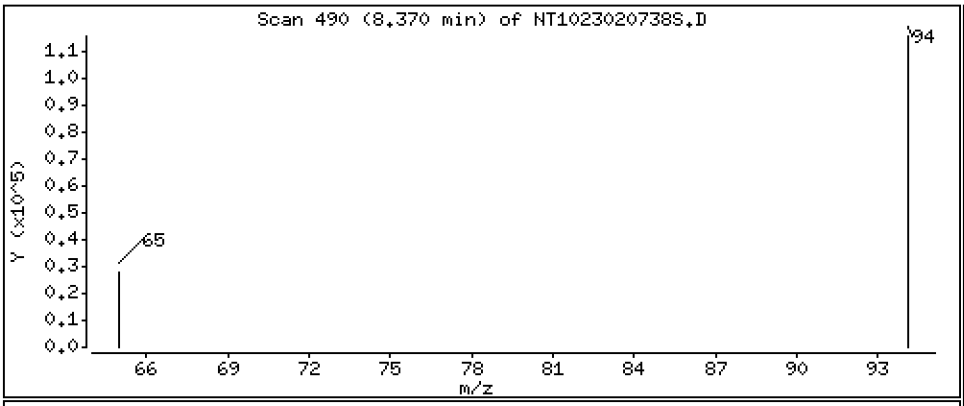
Operator: DSD

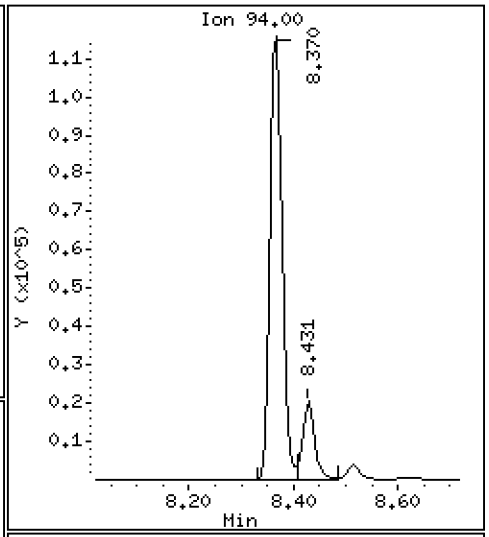
Column phase: ZB-5msi

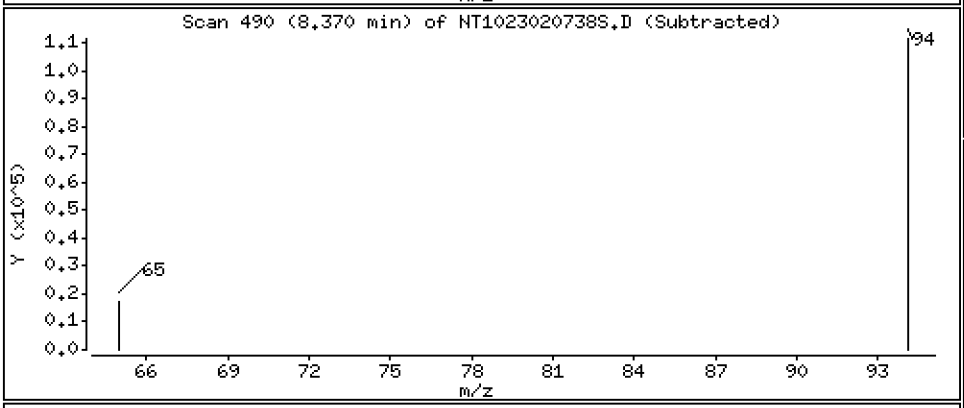
Column diameter: 0.25

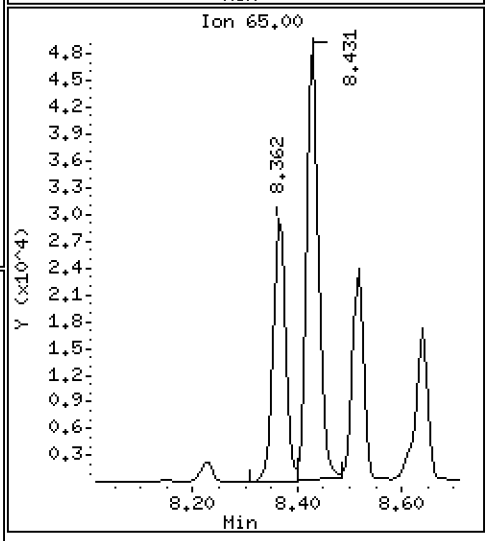
3 Phenol

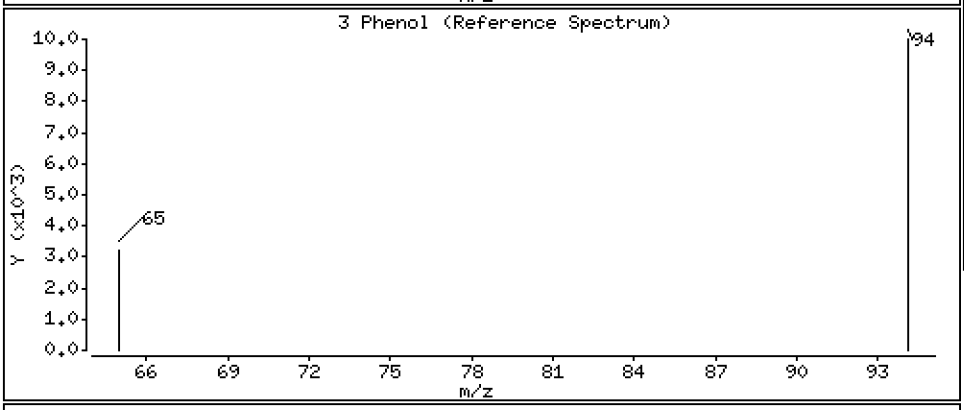
Concentration: 3.638 ug/L

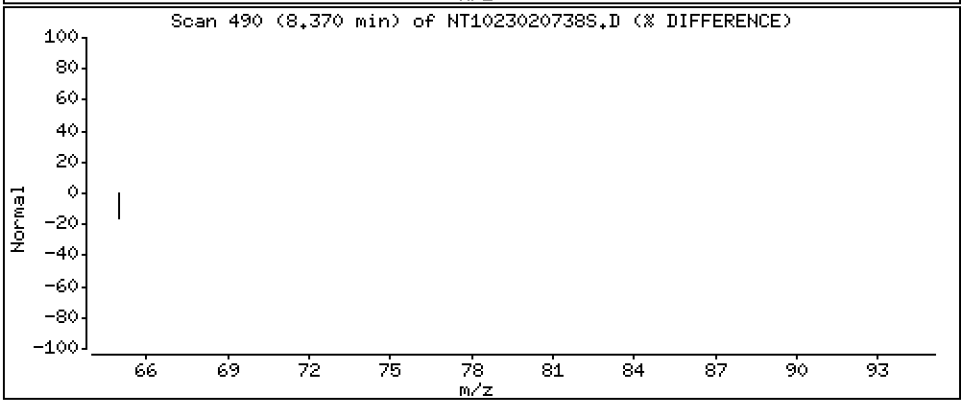












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

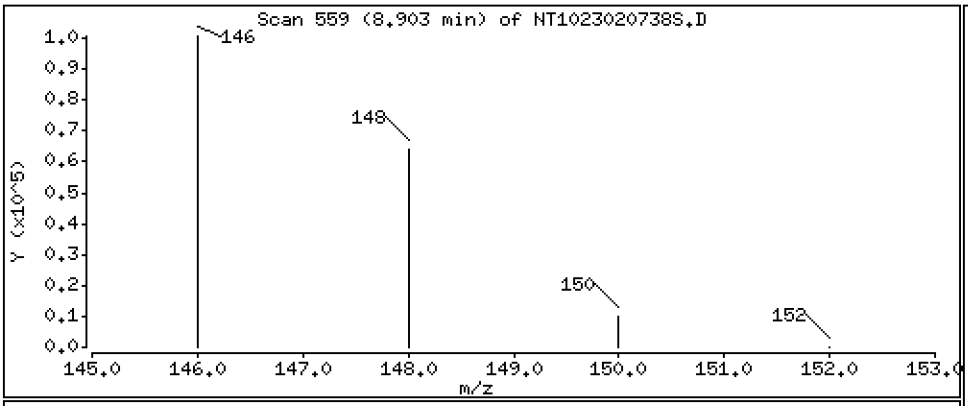
Operator: DSD

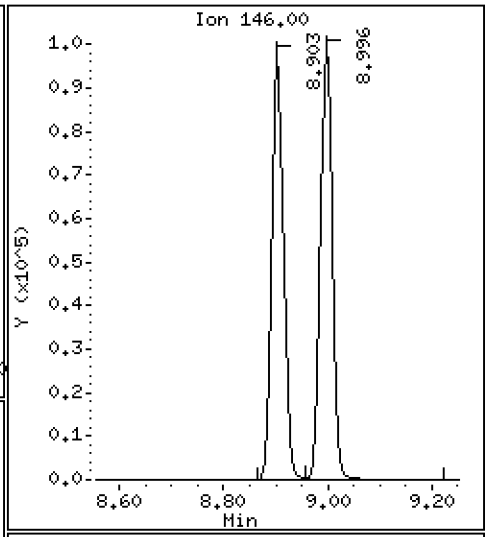
Column phase: ZB-5msi

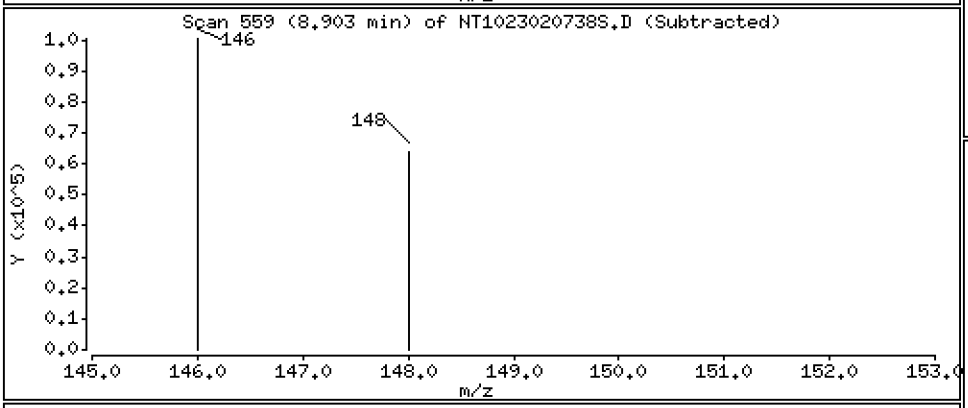
Column diameter: 0.25

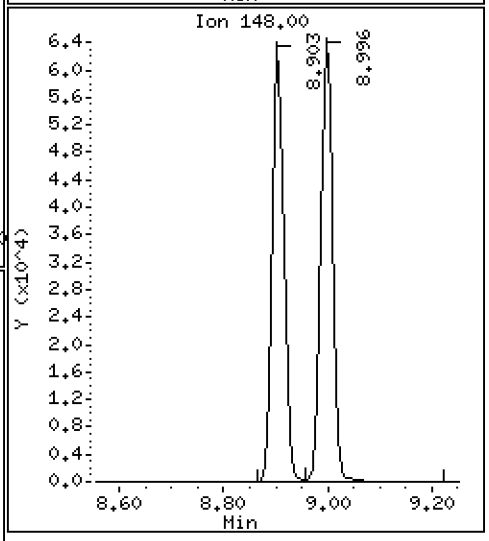
7 1,3-Dichlorobenzene

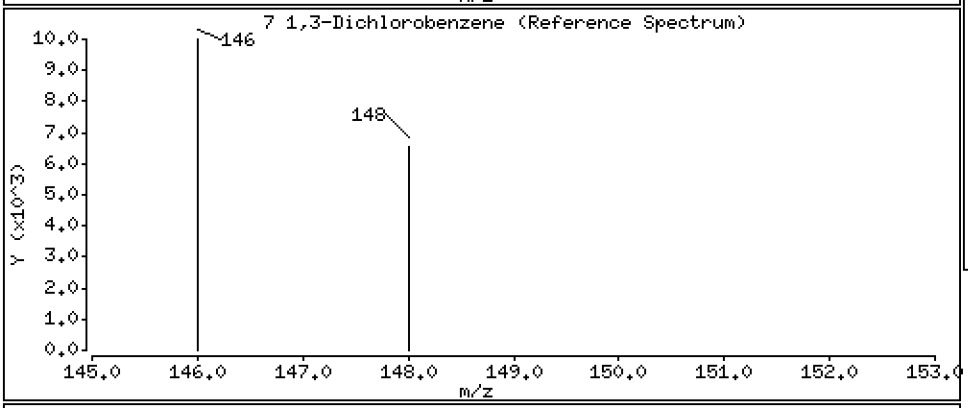
Concentration: 3.352 ug/L

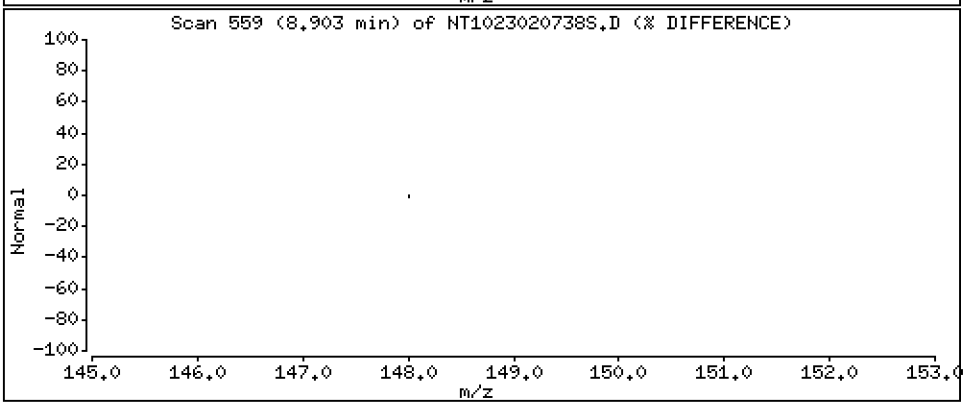












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

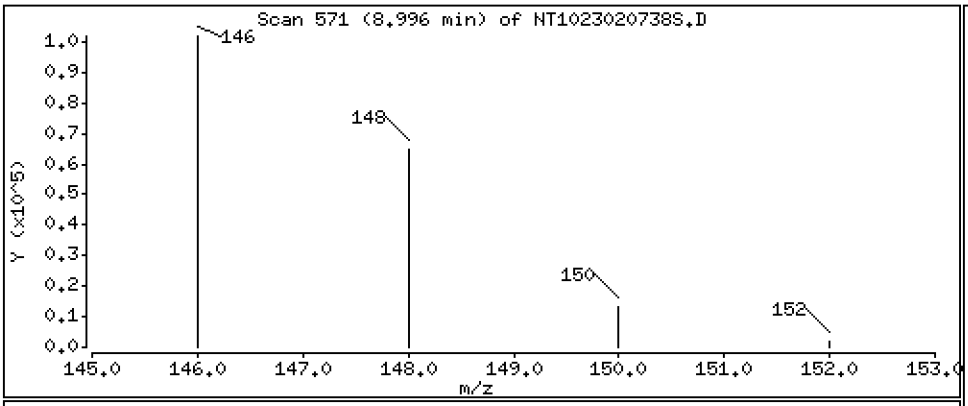
Operator: DSD

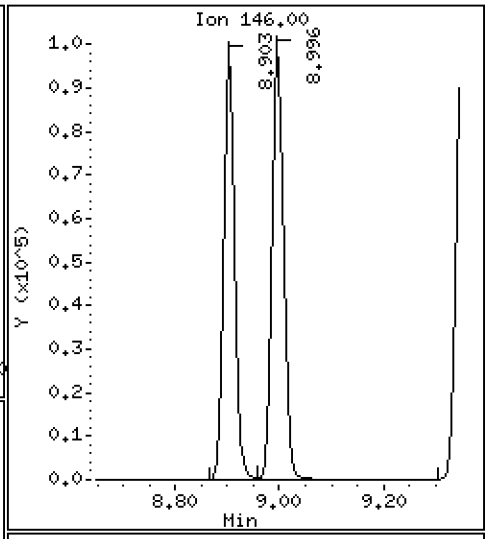
Column phase: ZB-5msi

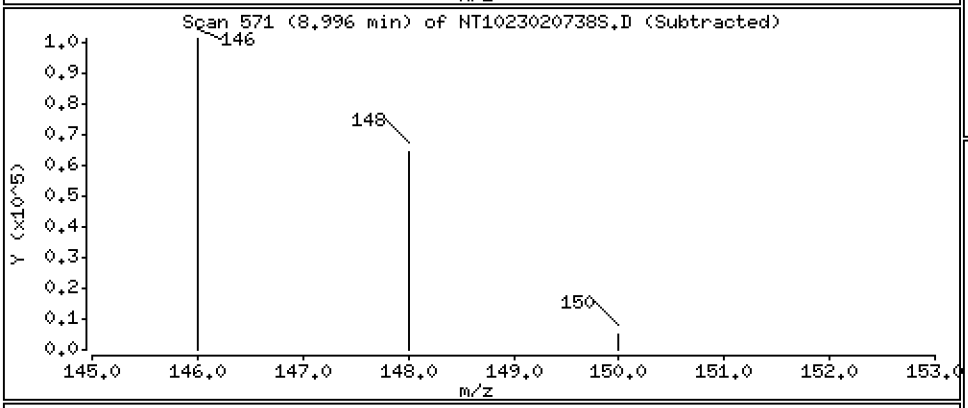
Column diameter: 0.25

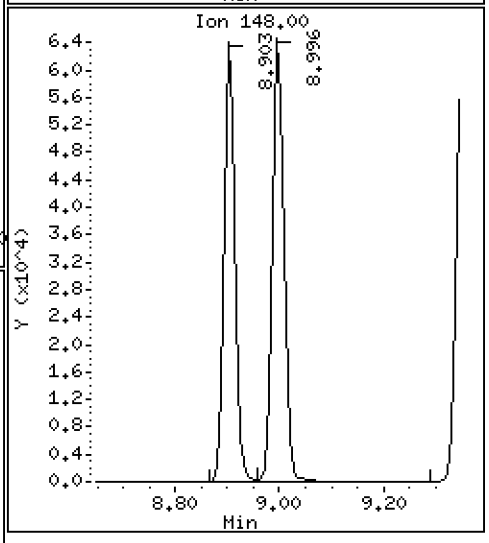
9 1,4-Dichlorobenzene

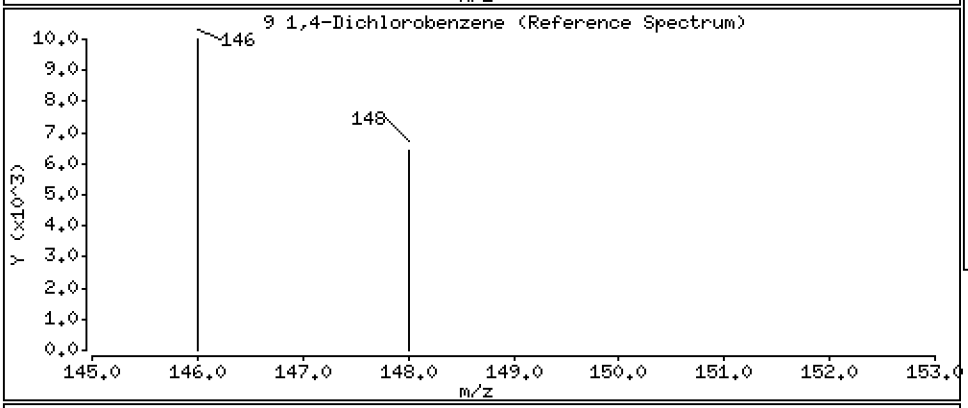
Concentration: 3.453 ug/L

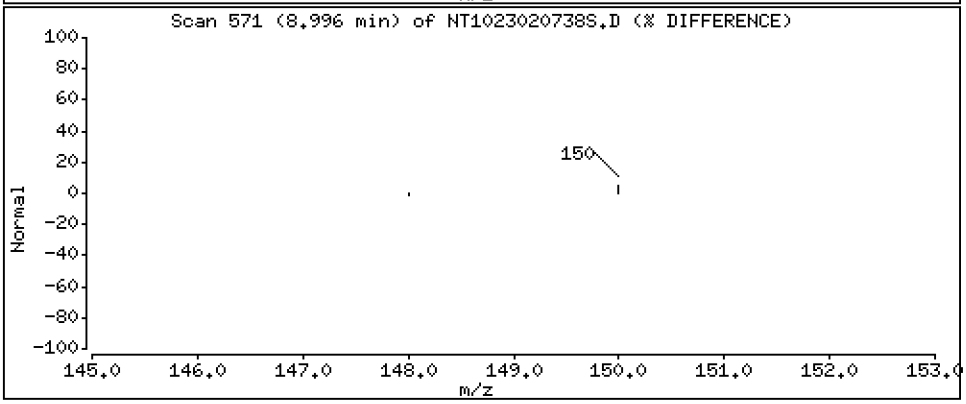












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

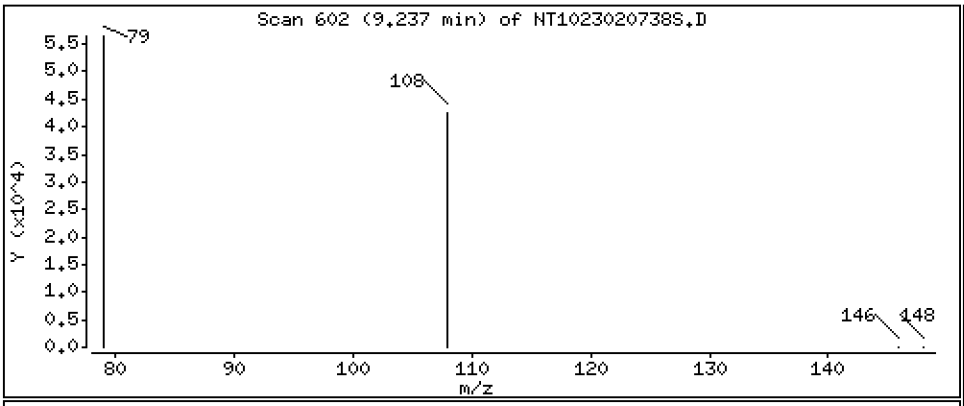
Operator: DSD

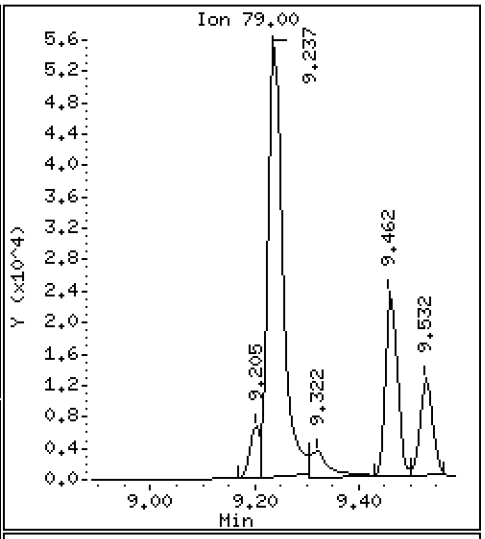
Column phase: ZB-5msi

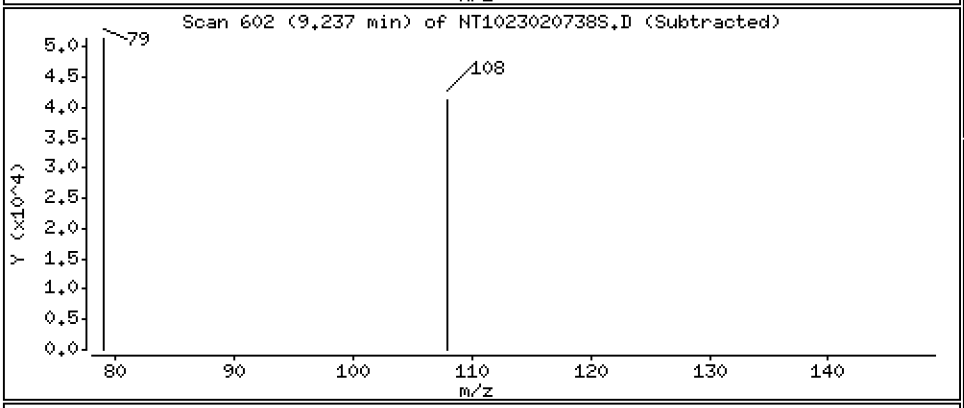
Column diameter: 0.25

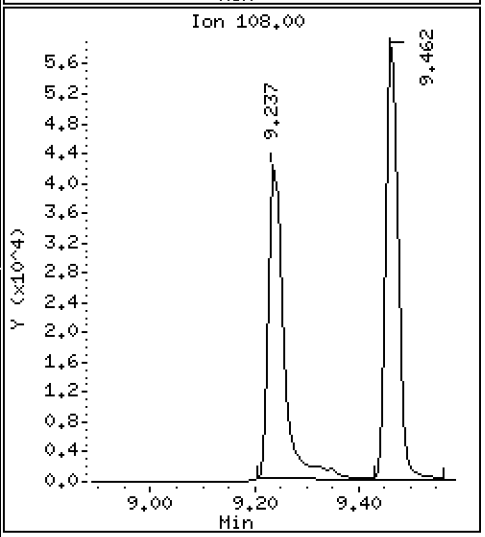
11 Benzyl alcohol

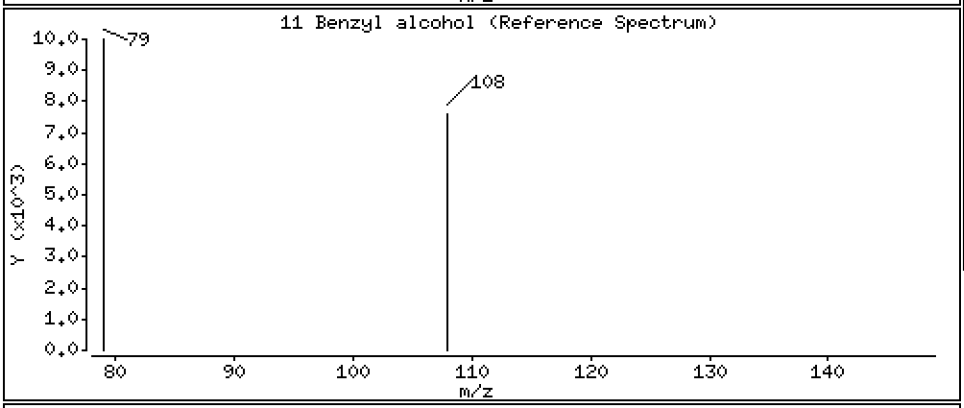
Concentration: 4.422 ug/L

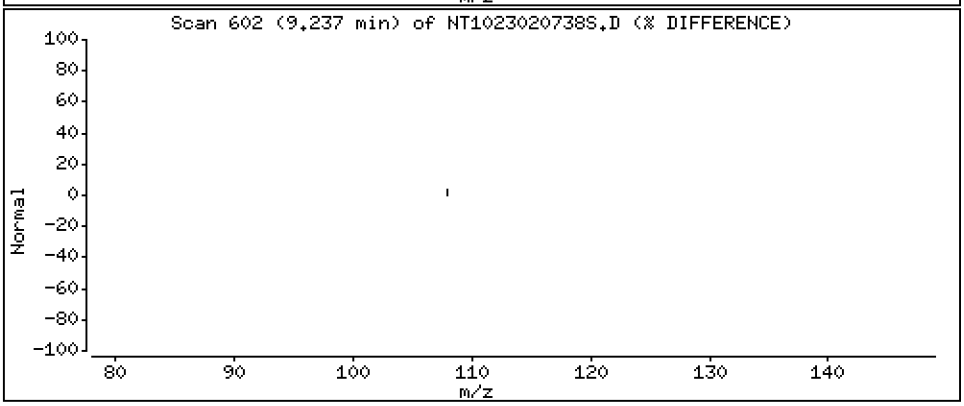












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

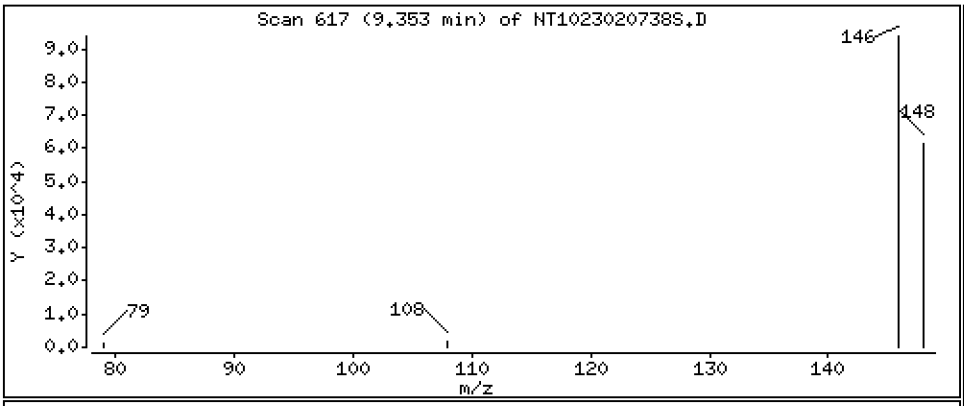
Operator: DSD

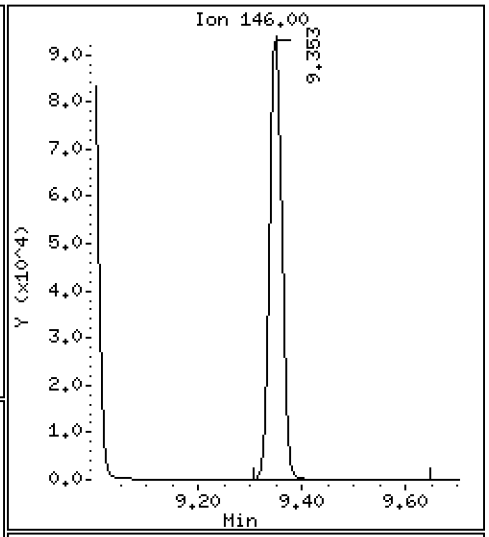
Column phase: ZB-5msi

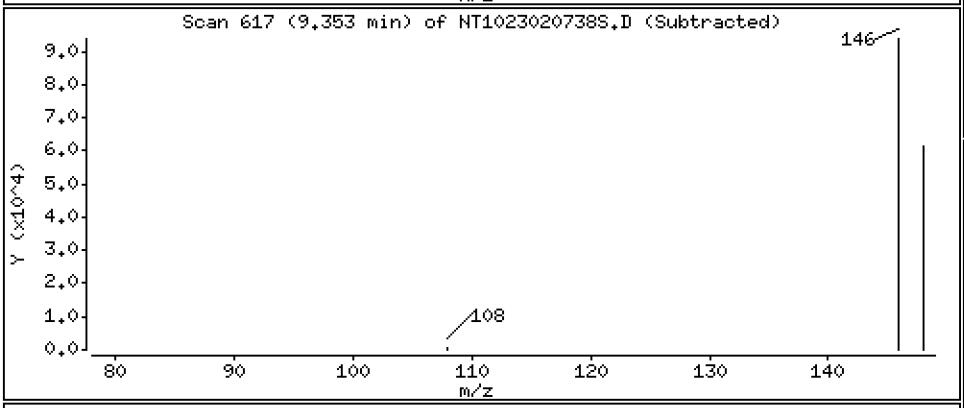
Column diameter: 0.25

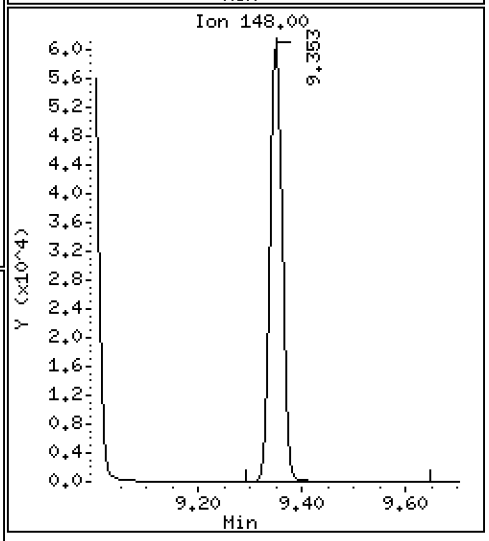
12 1,2-Dichlorobenzene

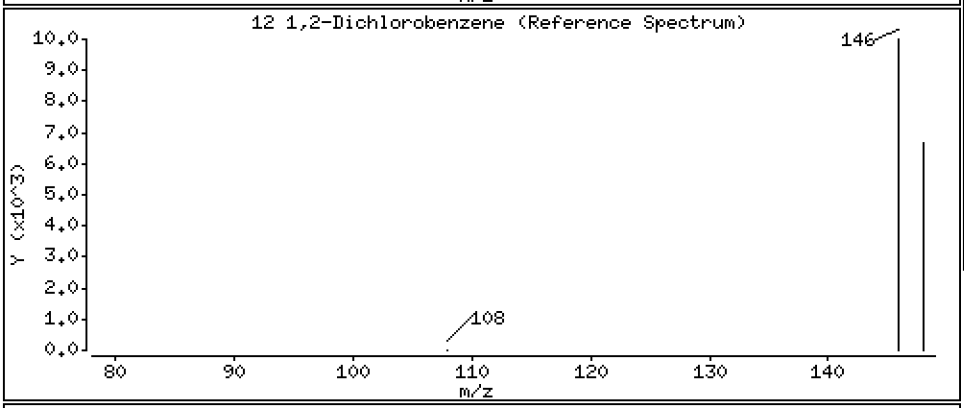
Concentration: 3.474 ug/L

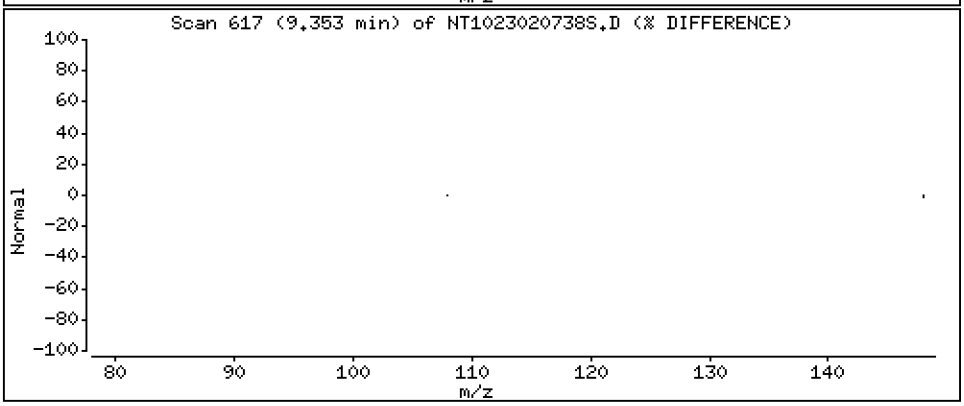












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

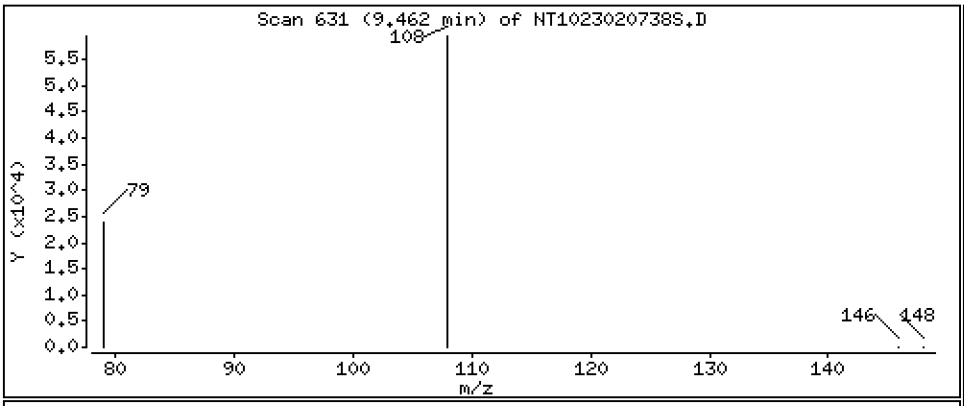
Operator: DSD

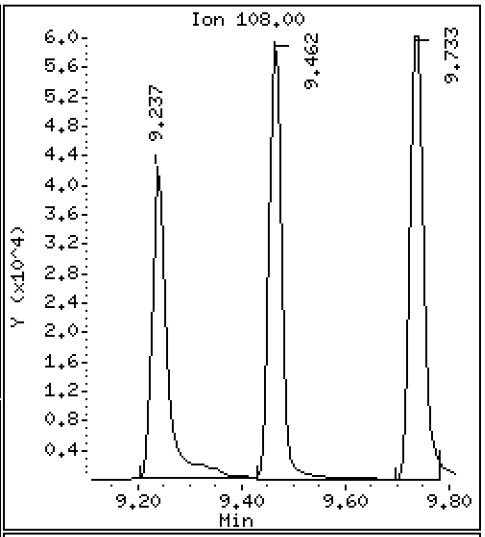
Column phase: ZB-5msi

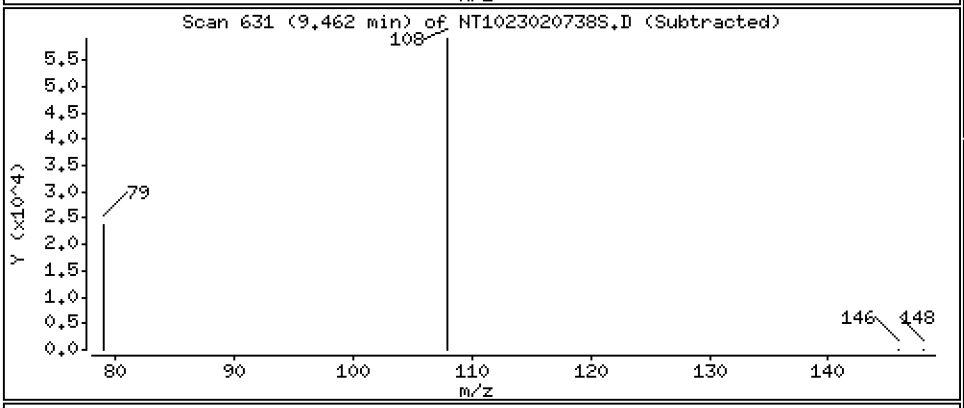
Column diameter: 0.25

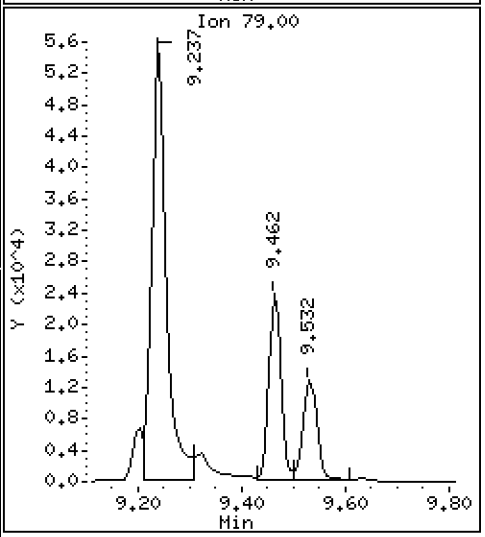
13 2-Methylphenol

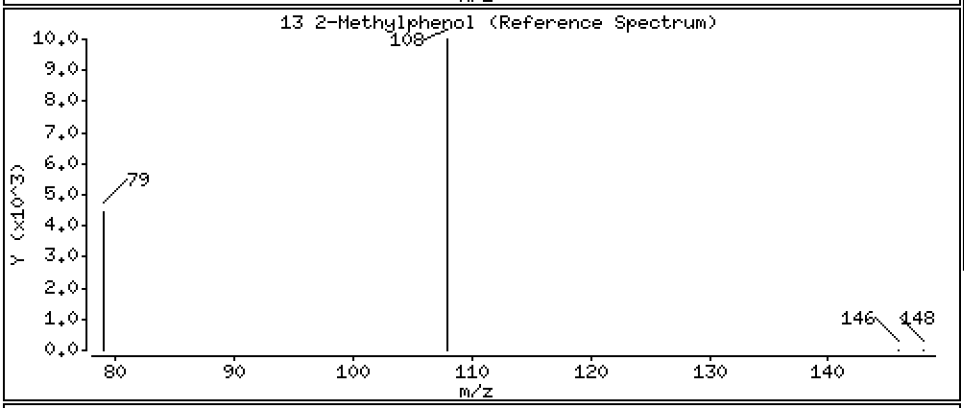
Concentration: 2.842 ug/L

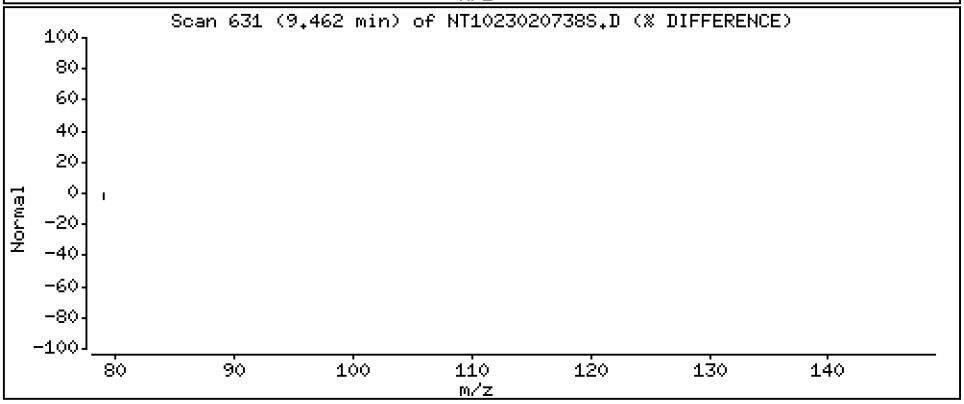












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

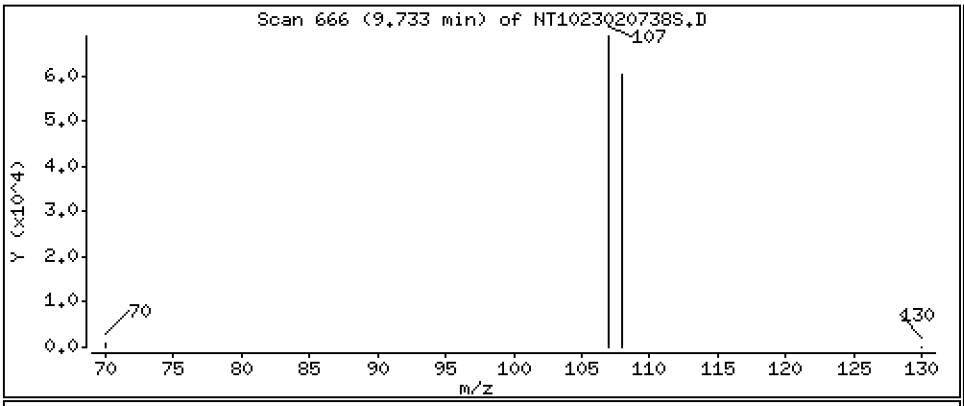
Operator: DSD

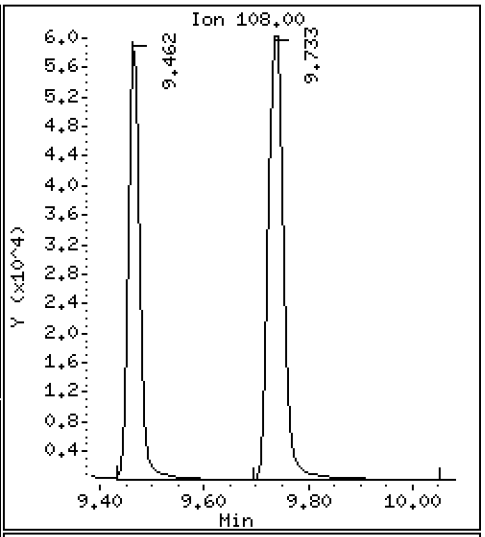
Column phase: ZB-5msi

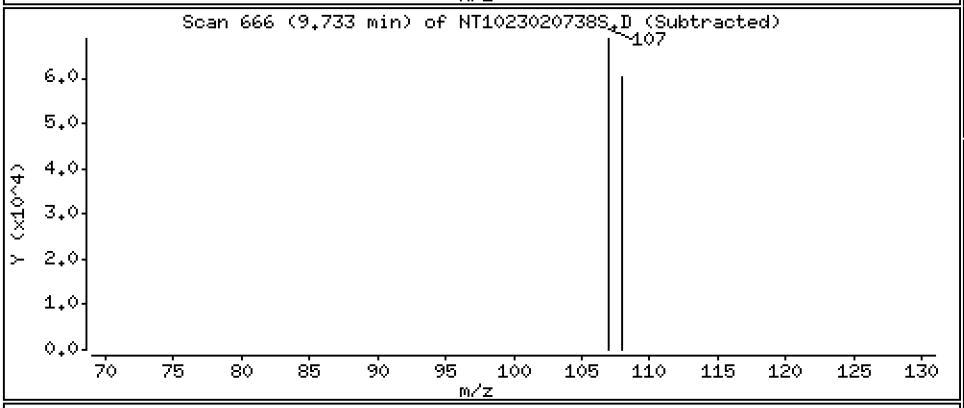
Column diameter: 0.25

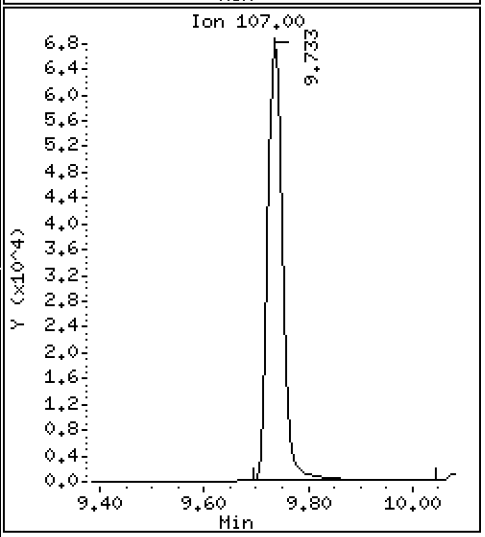
15 4-Methylphenol

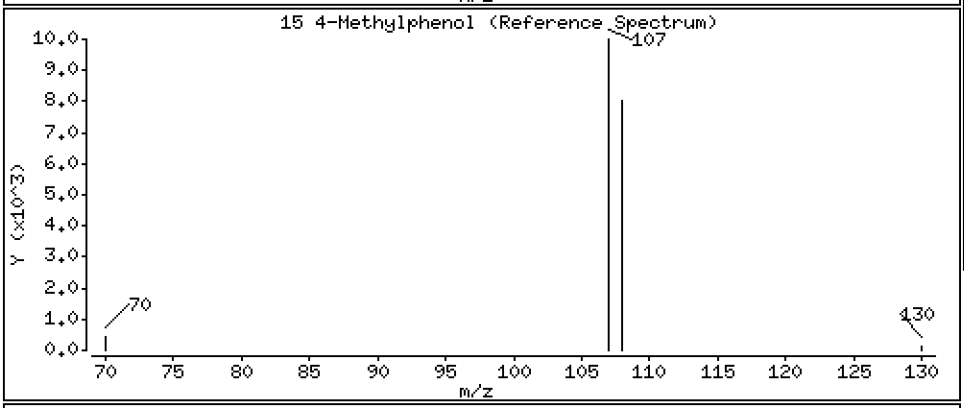
Concentration: 3.494 ug/L

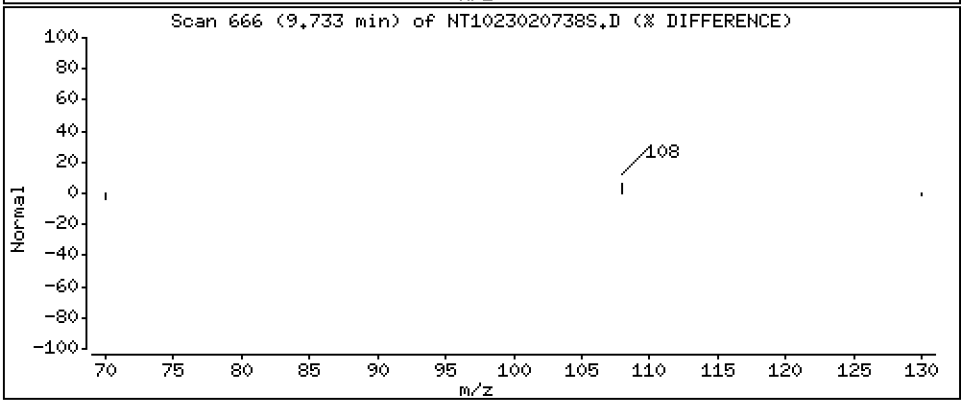












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

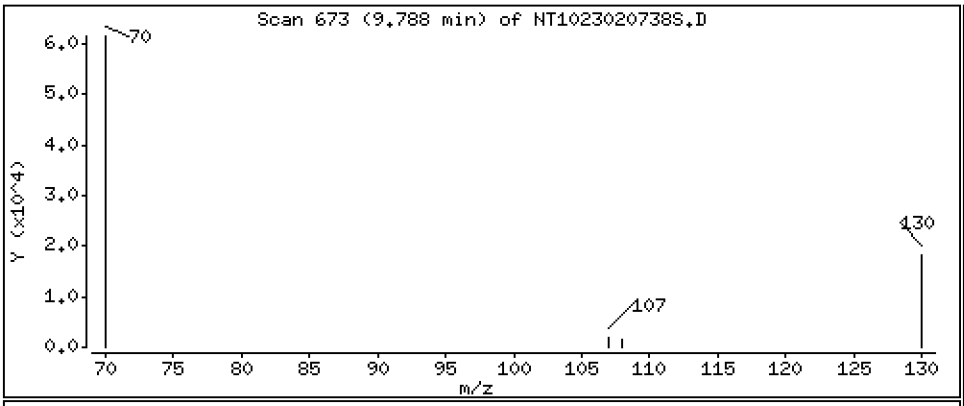
Operator: DSD

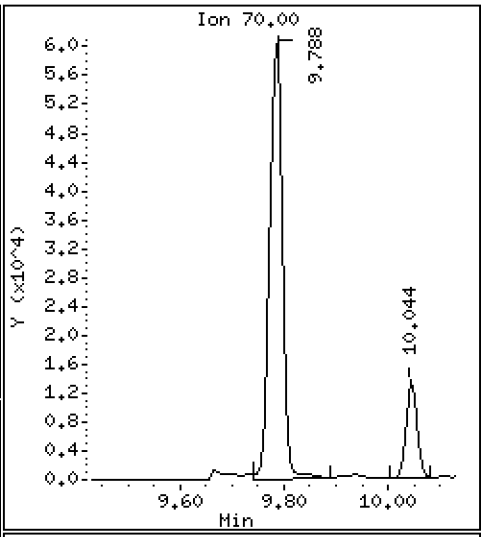
Column phase: ZB-5msi

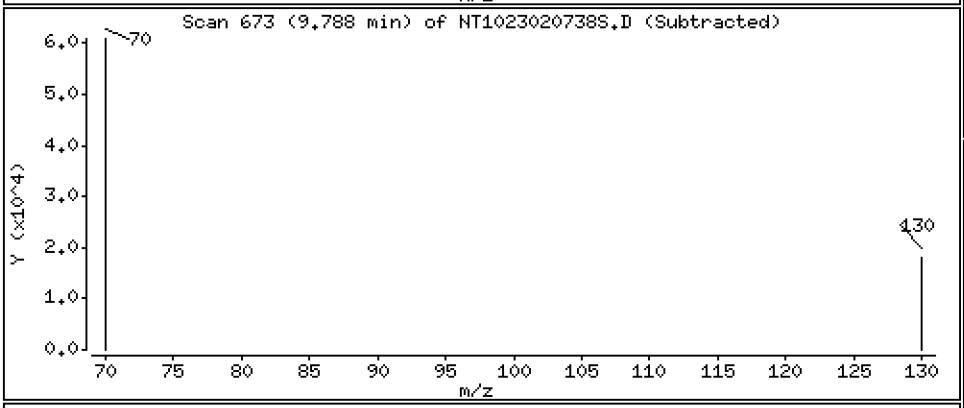
Column diameter: 0.25

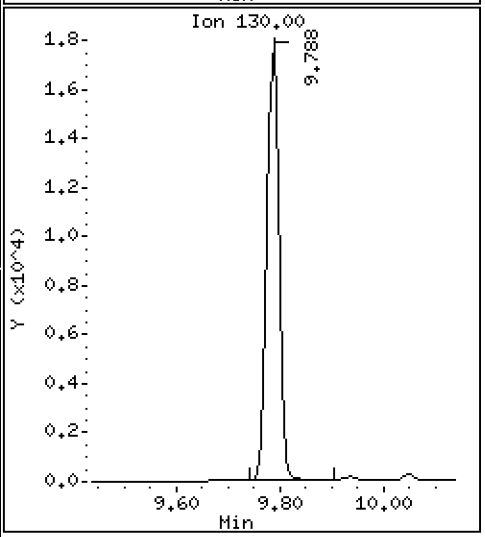
16 N-Nitroso-di-n-propylamine

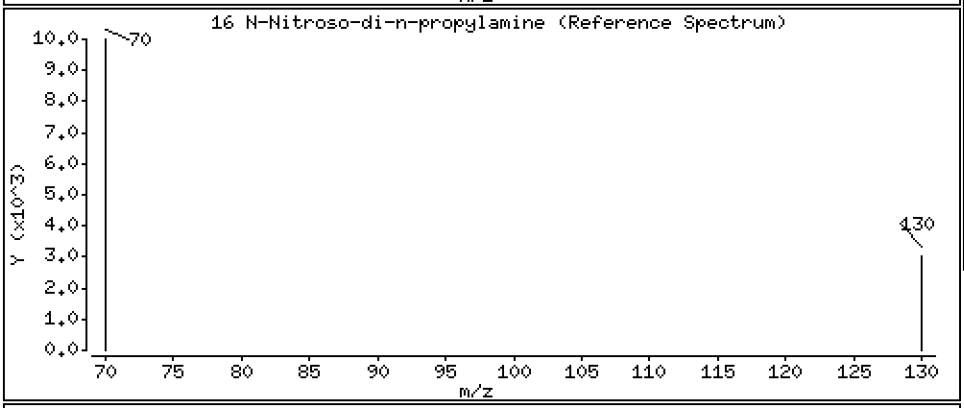
Concentration: 4.053 ug/L

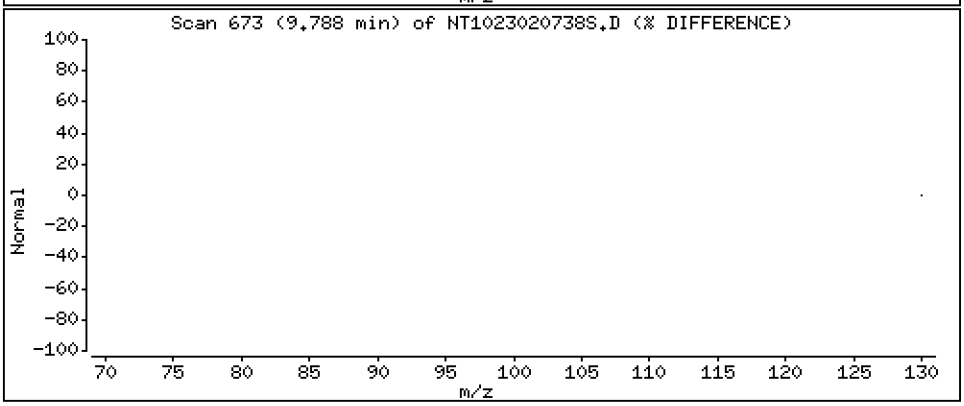












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

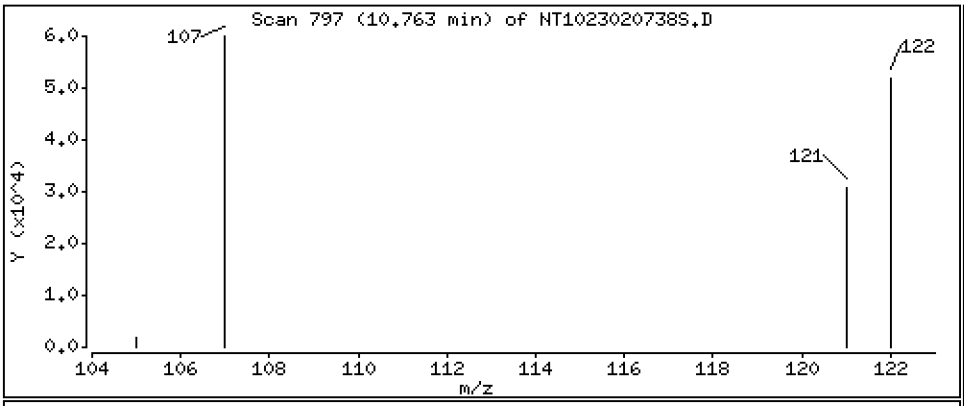
Operator: DSD

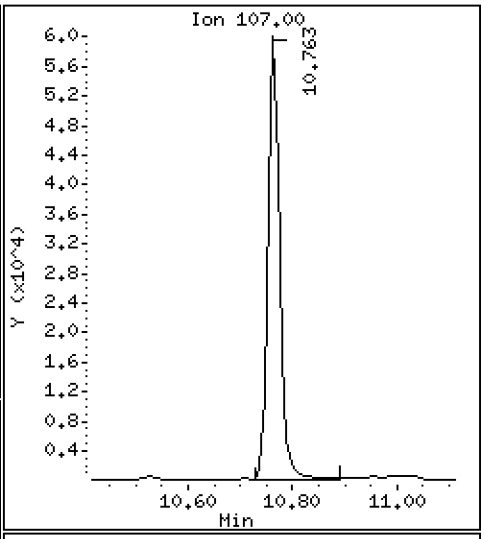
Column phase: ZB-5msi

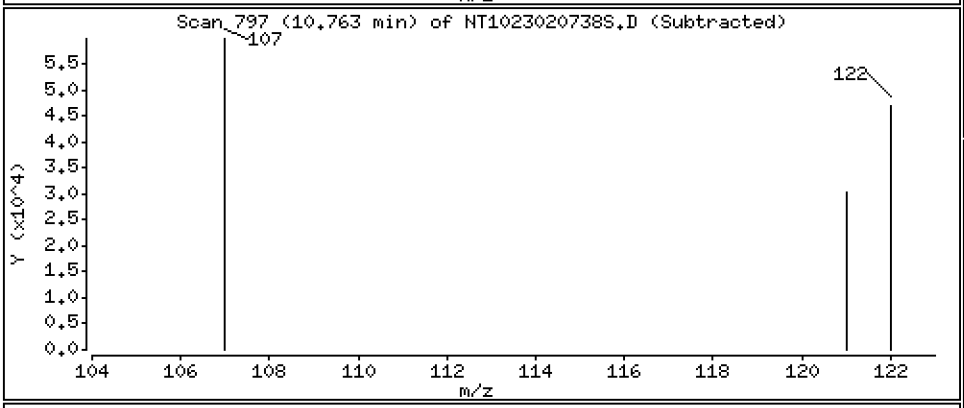
Column diameter: 0.25

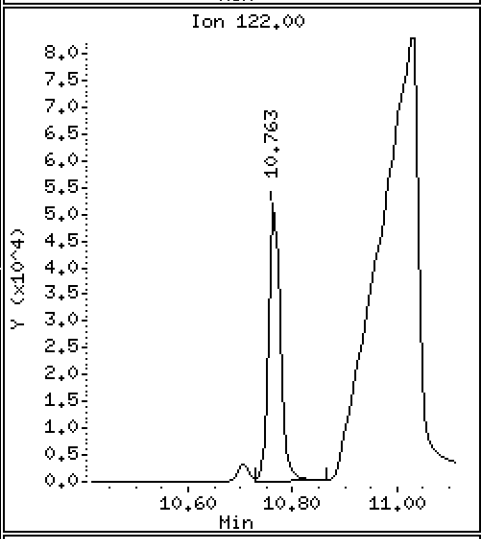
22 2,4-Dimethylphenol

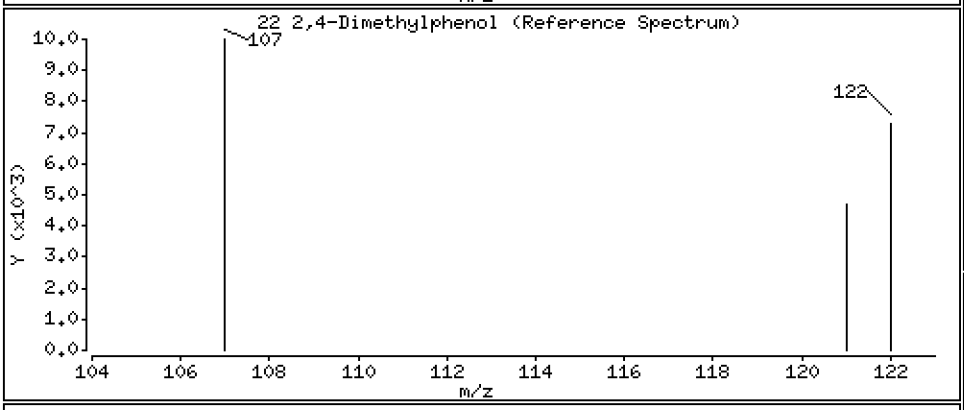
Concentration: 2.575 ug/L

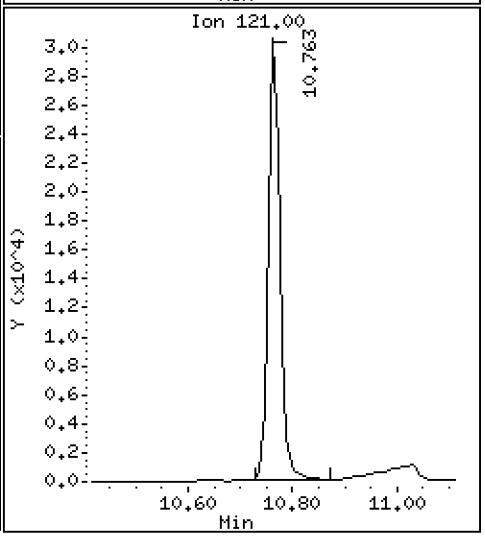


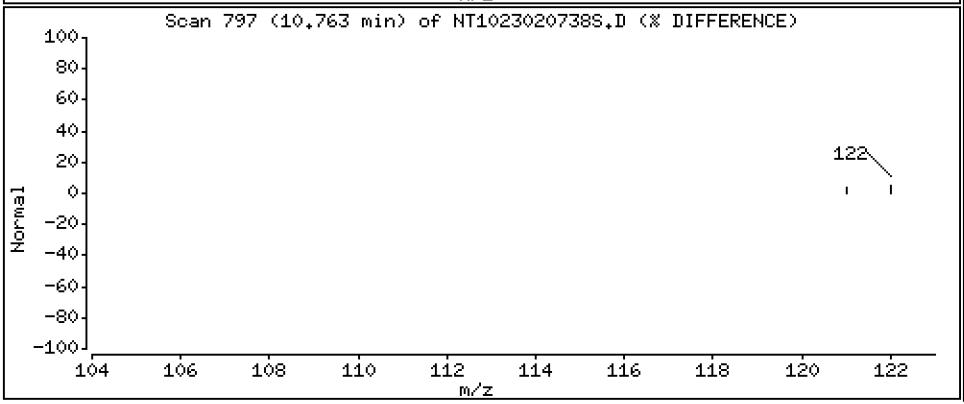












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

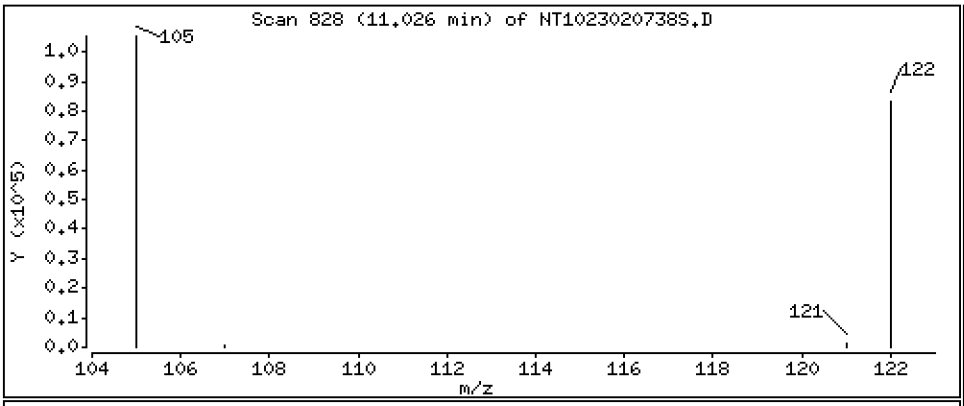
Operator: DSD

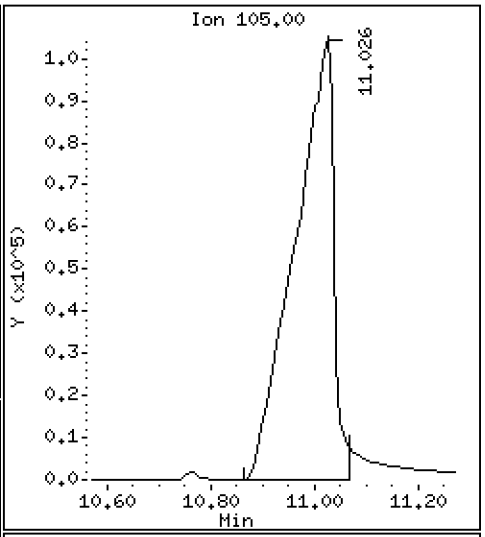
Column phase: ZB-5msi

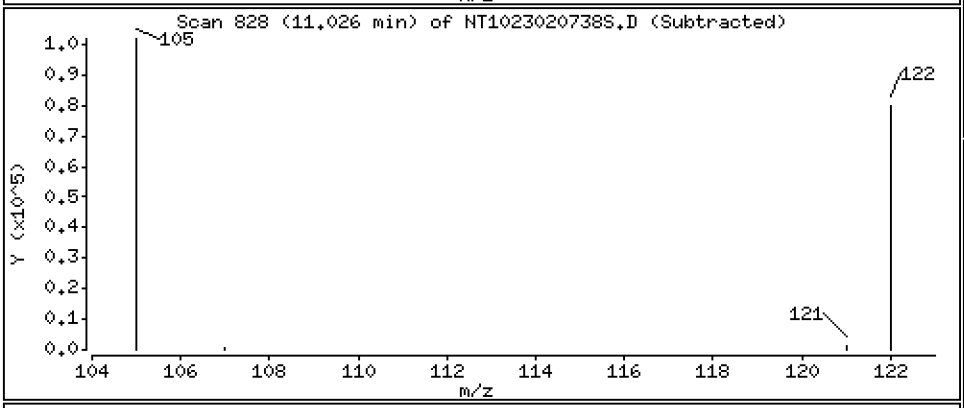
Column diameter: 0.25

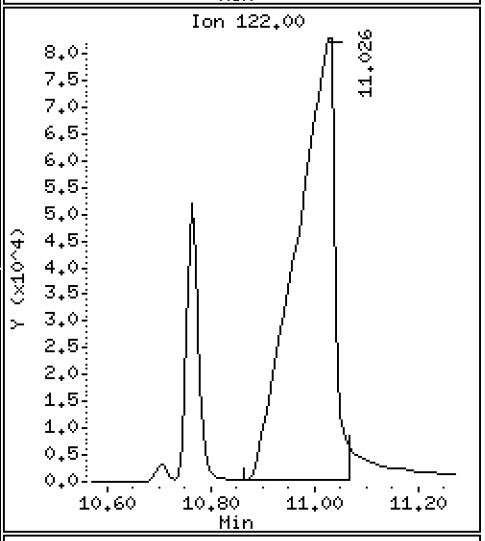
24 Benzoic acid

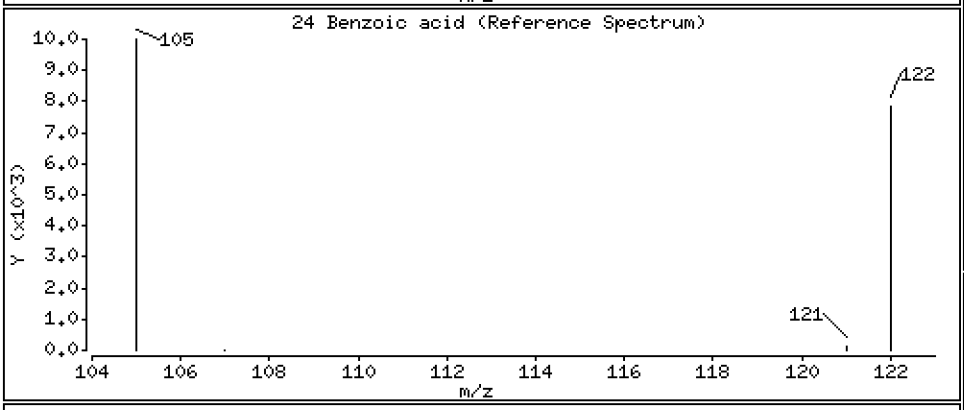
Concentration: 27.15 ug/L

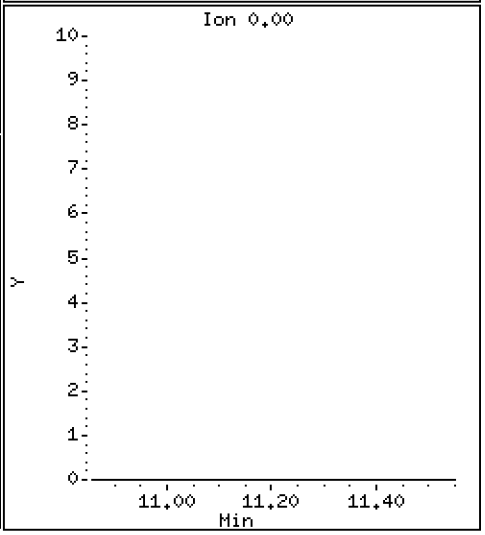


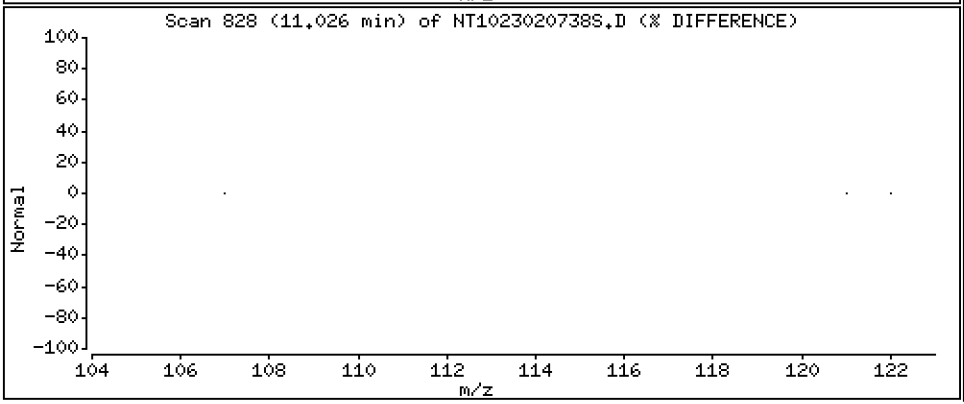












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

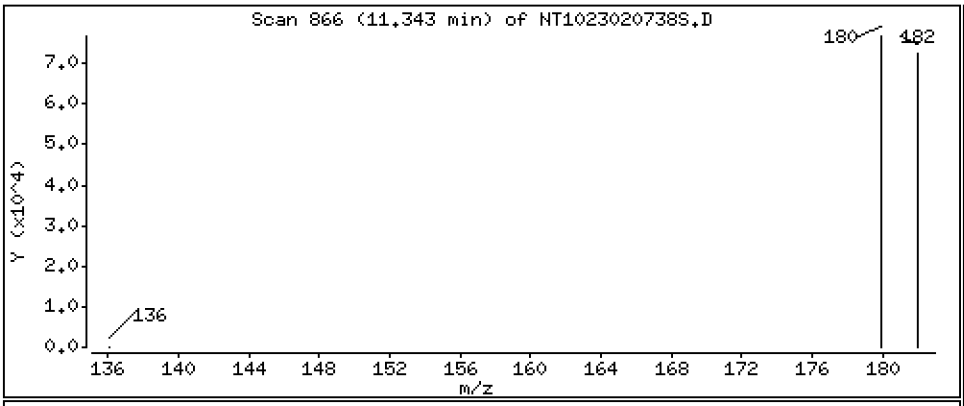
Operator: DSD

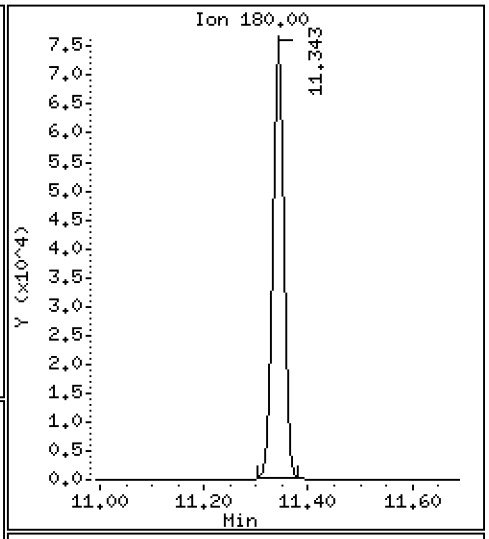
Column phase: ZB-5msi

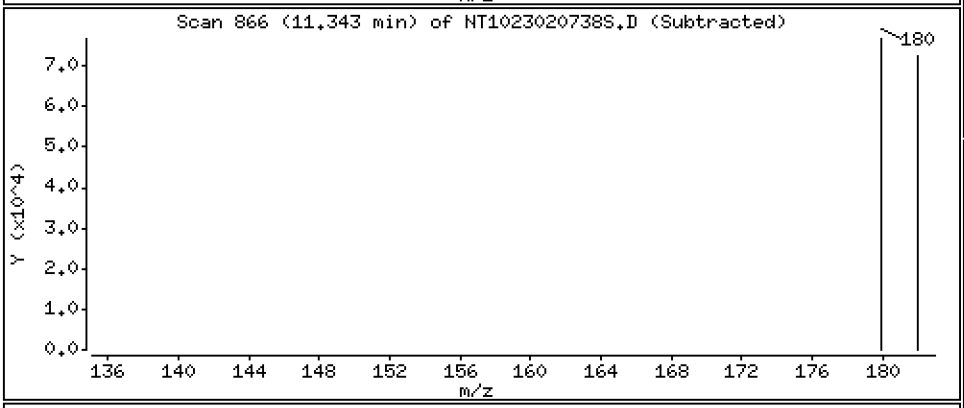
Column diameter: 0.25

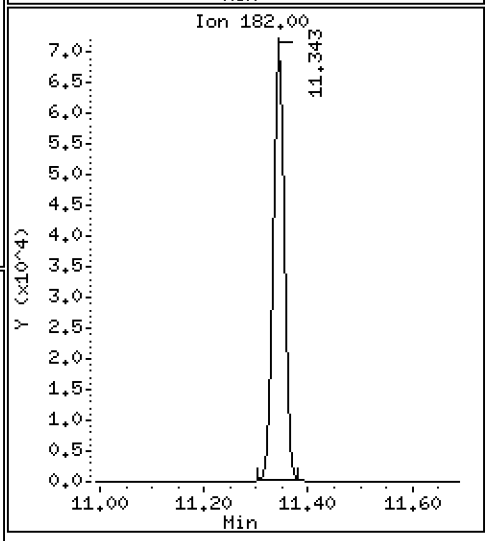
26 1,2,4-Trichlorobenzene

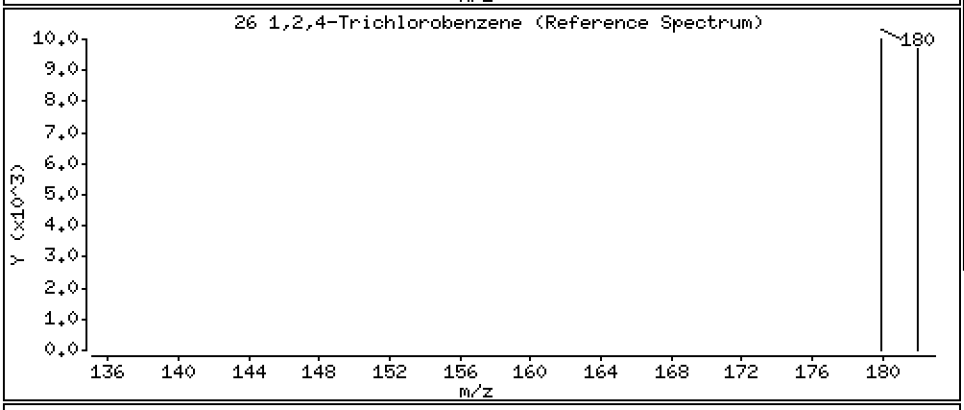
Concentration: 3.485 ug/L

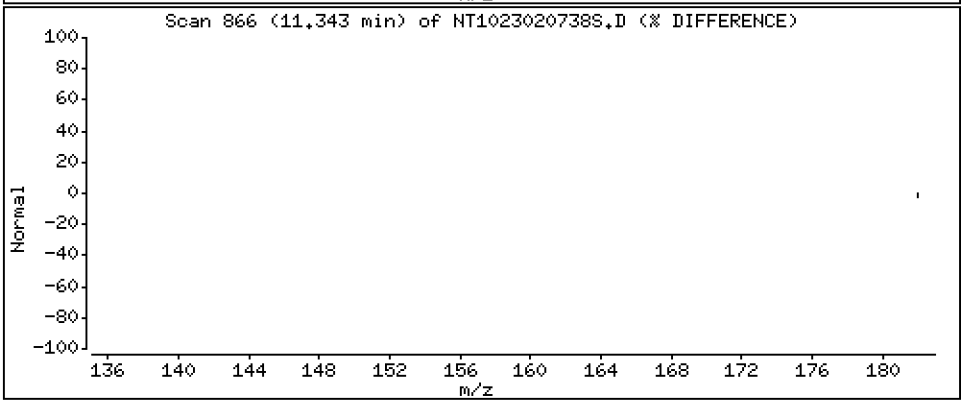












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

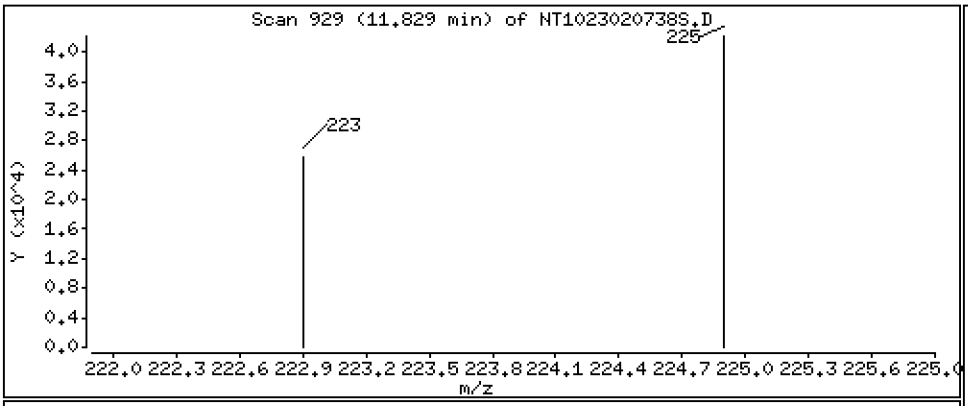
Operator: DSD

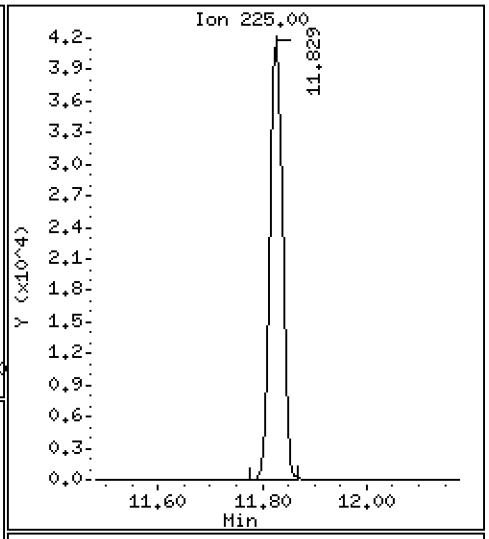
Column phase: ZB-5msi

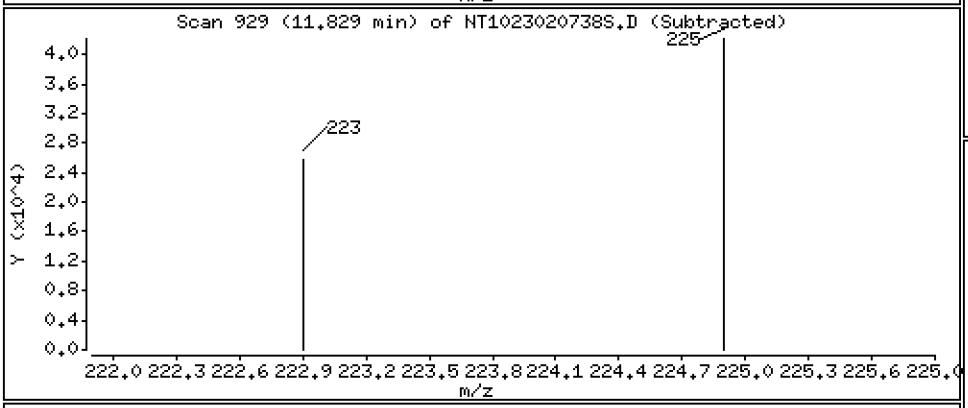
Column diameter: 0.25

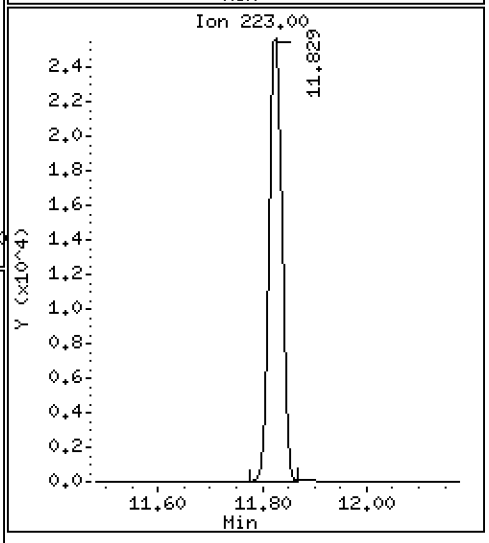
30 Hexachlorobutadiene

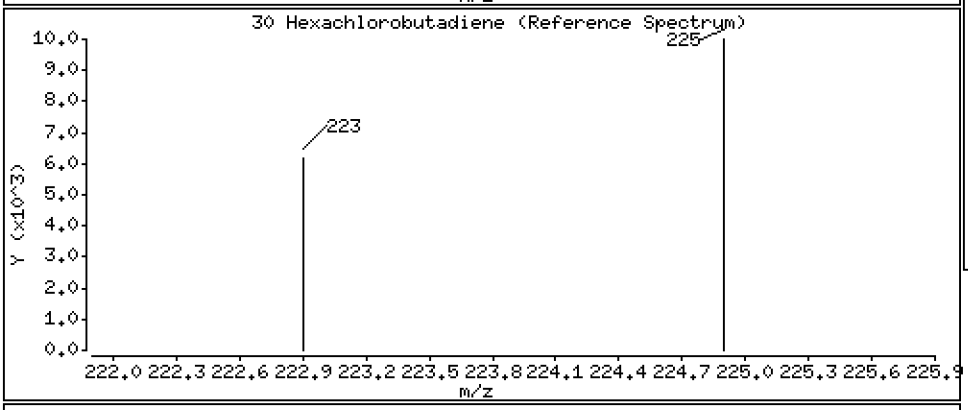
Concentration: 3.652 ug/L

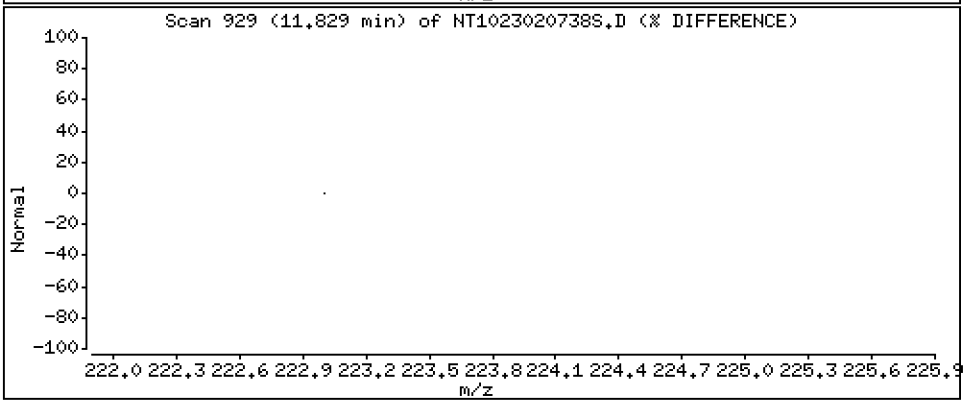












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

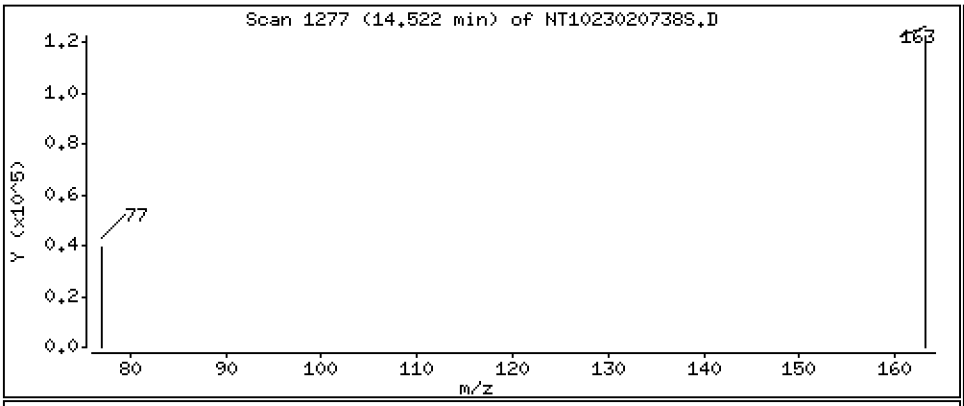
Operator: DSD

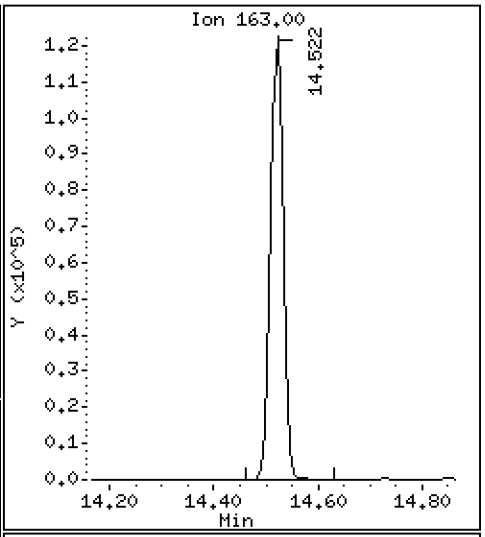
Column phase: ZB-5msi

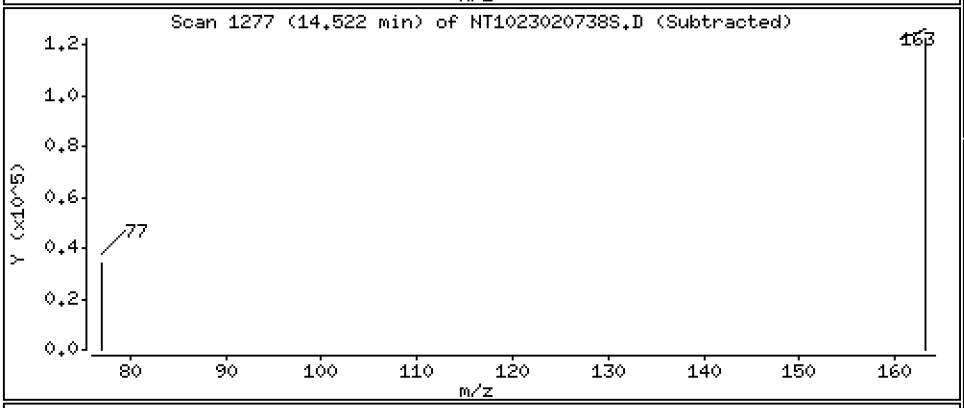
Column diameter: 0.25

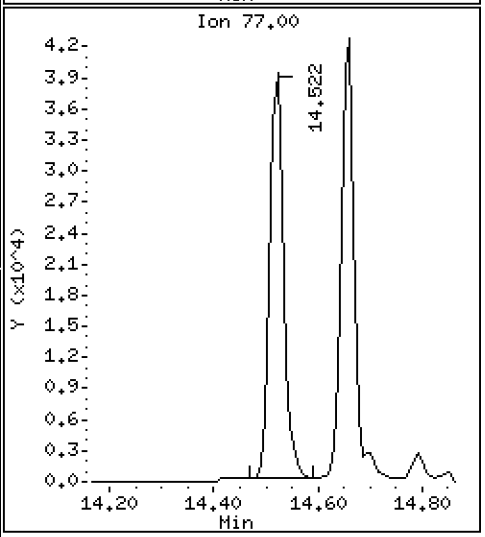
39 Dimethylphthalate

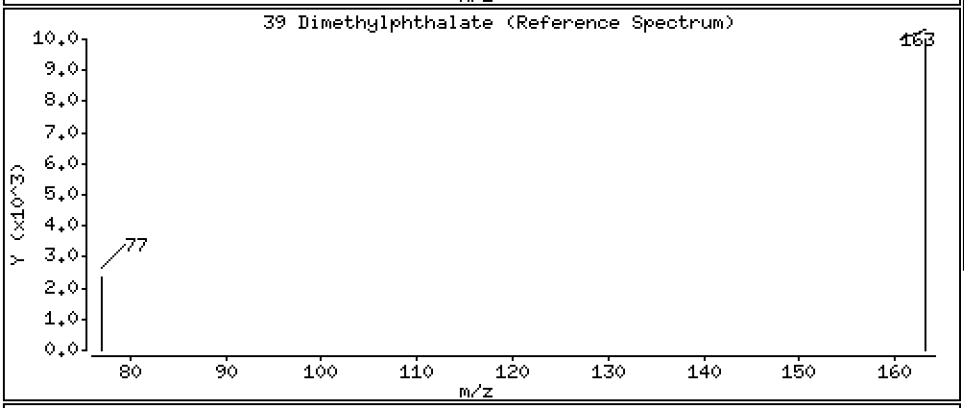
Concentration: 4.209 ug/L

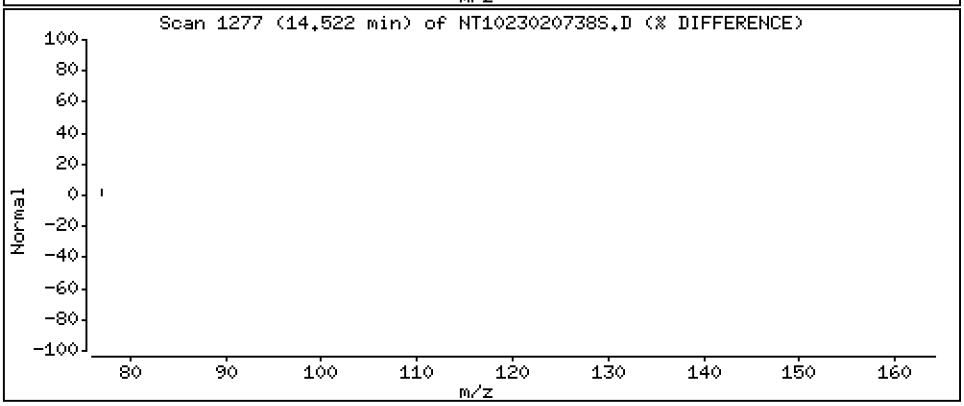












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

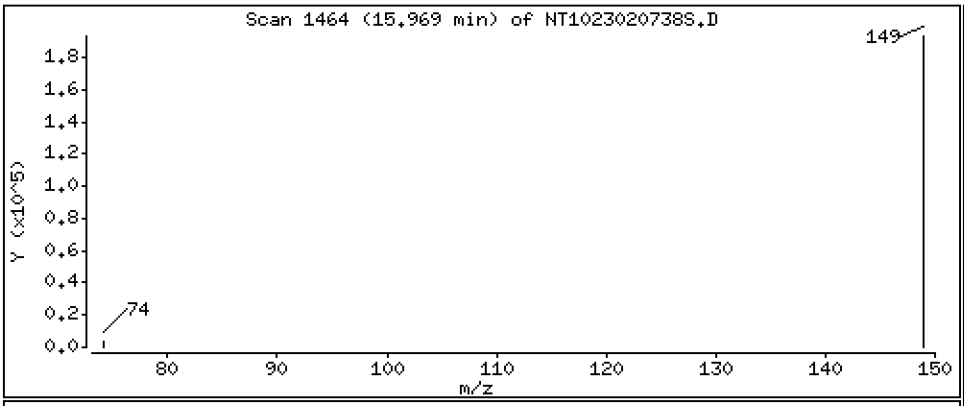
Operator: DSD

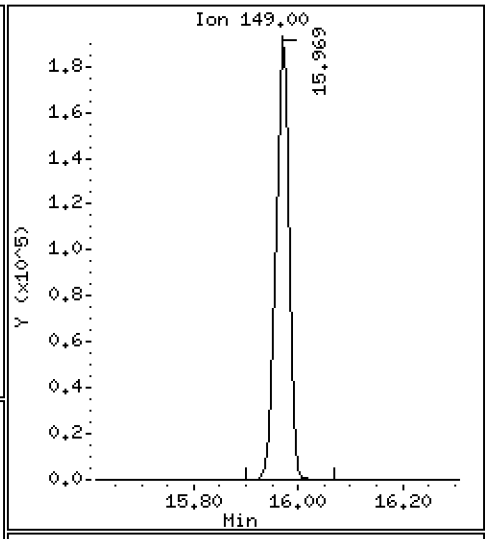
Column phase: ZB-5msi

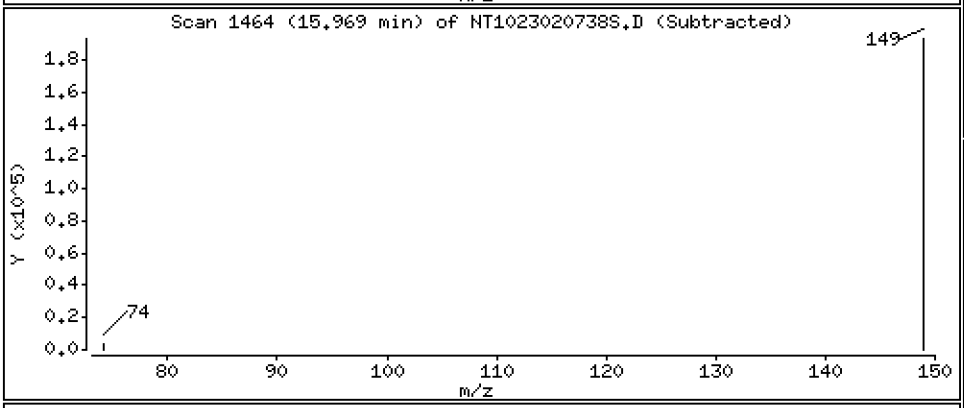
Column diameter: 0.25

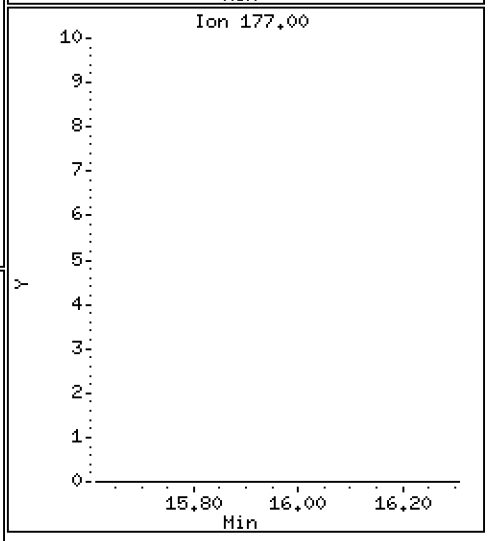
50 Diethylphthalate

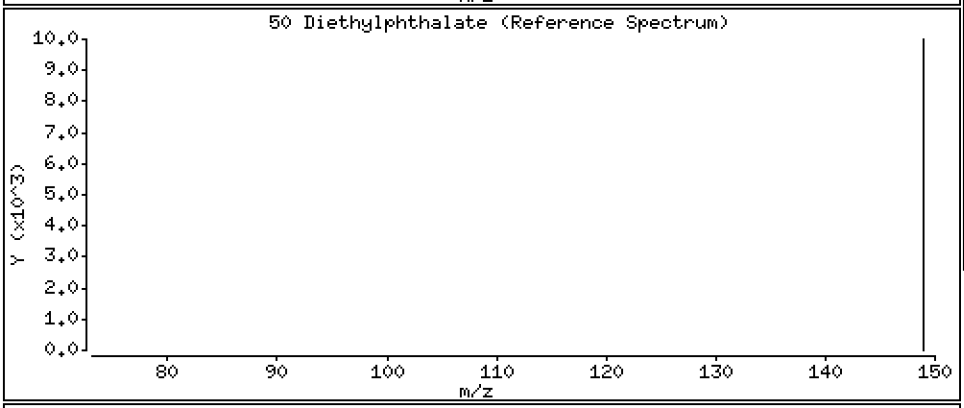
Concentration: 4.712 ug/L

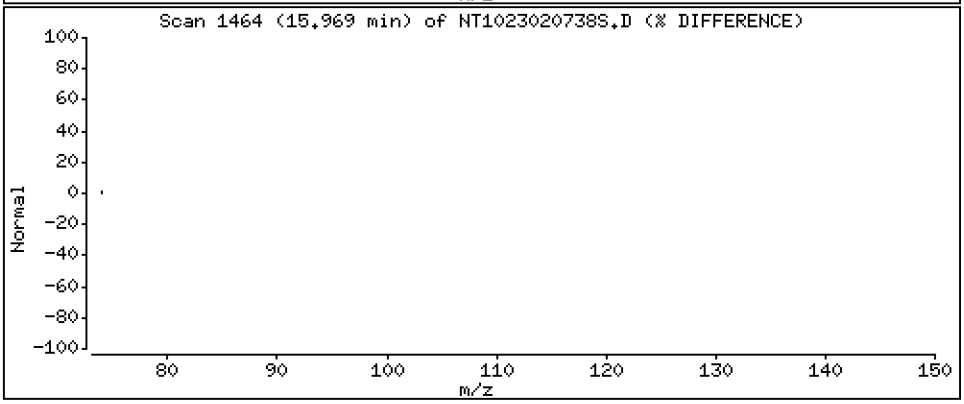












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

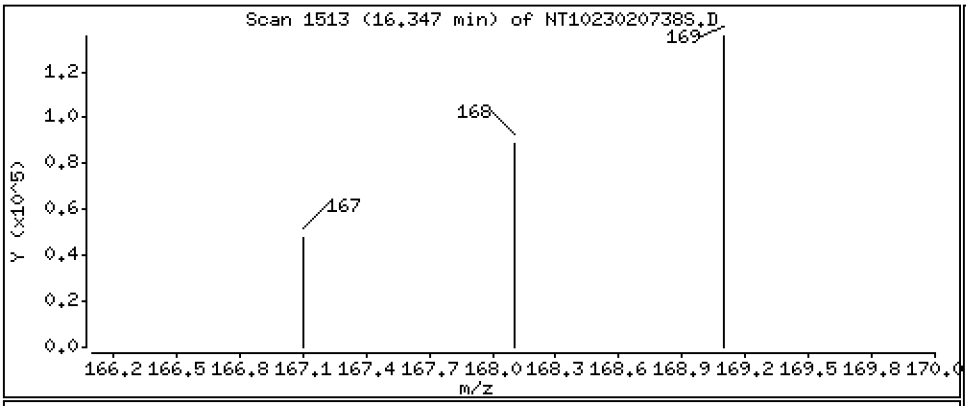
Operator: DSD

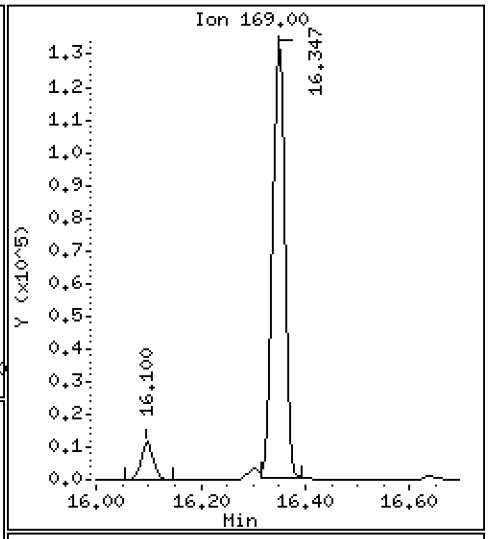
Column phase: ZB-5msi

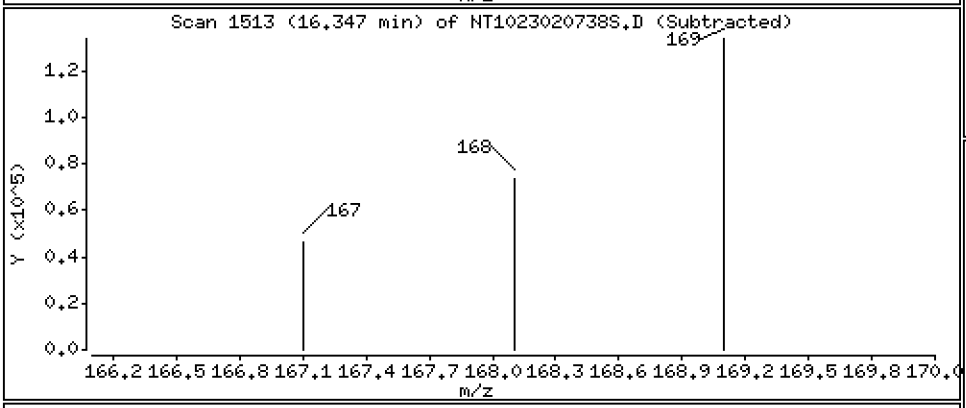
Column diameter: 0.25

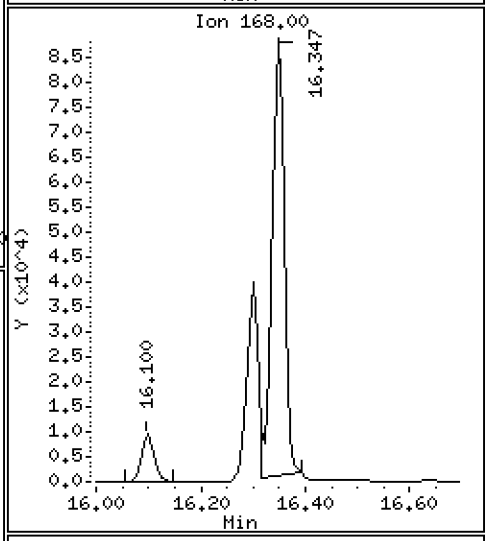
54 N-Nitrosodiphenylamine

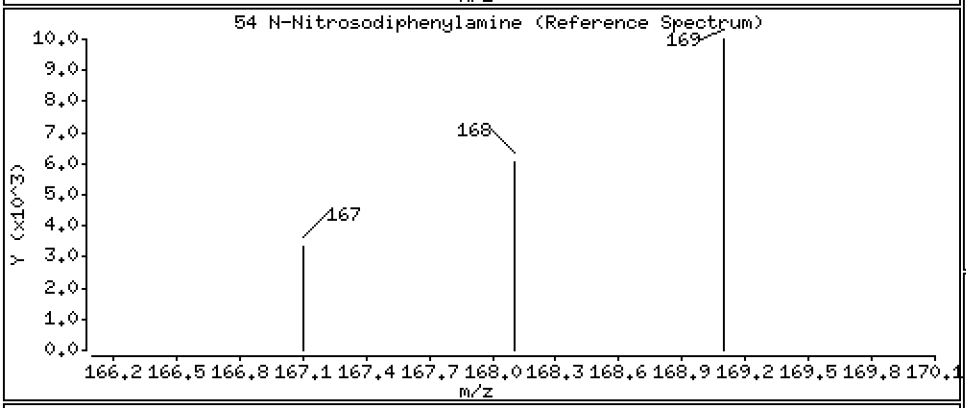
Concentration: 3.370 ug/L

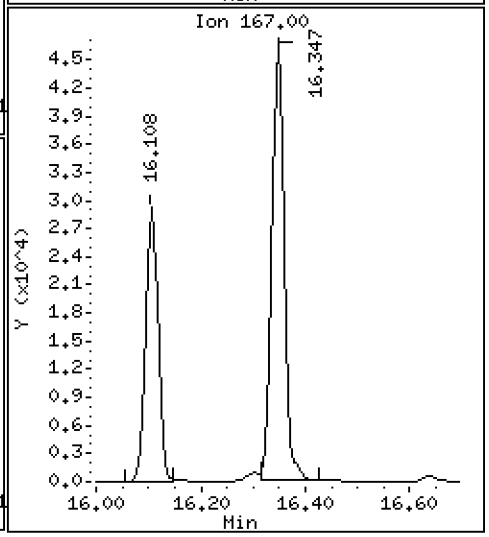


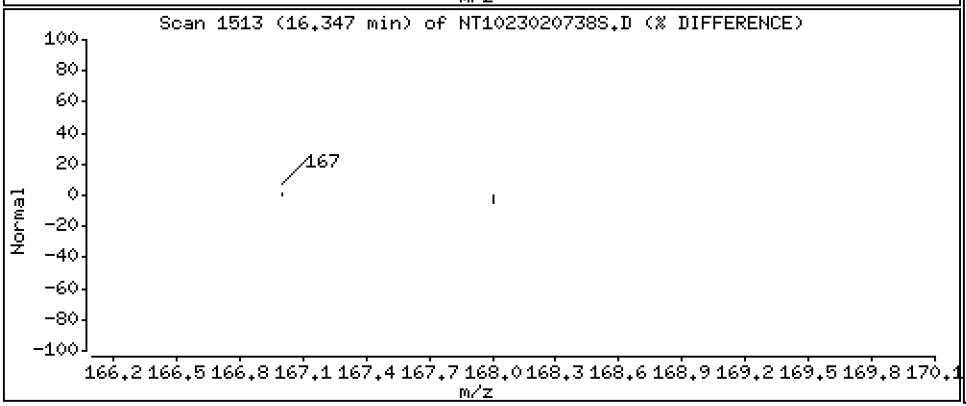












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

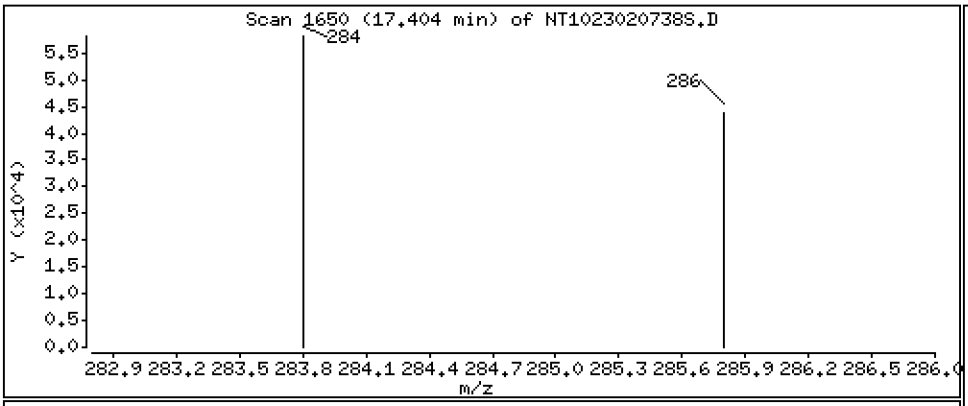
Operator: DSD

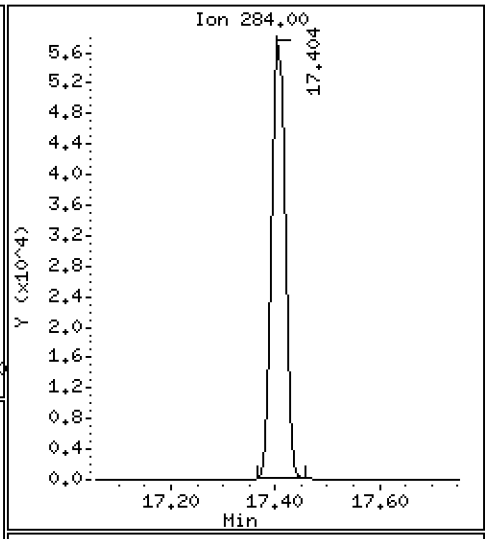
Column phase: ZB-5msi

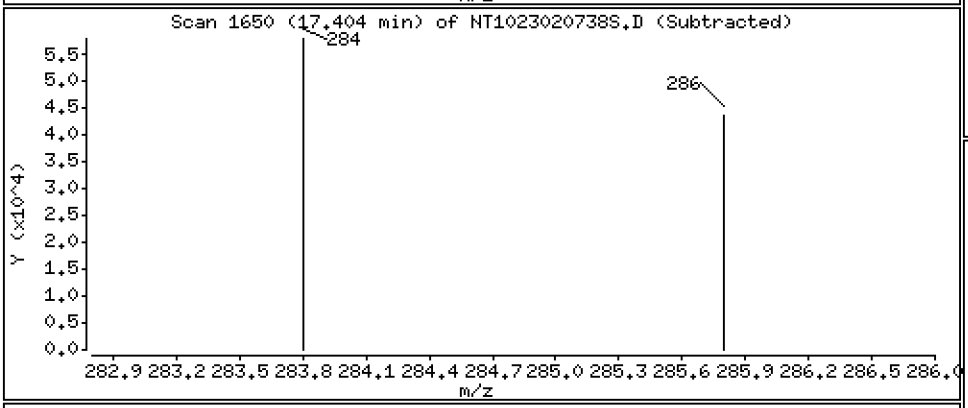
Column diameter: 0.25

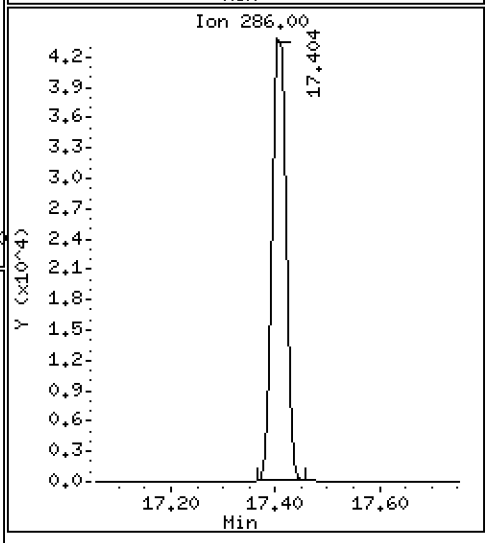
57 Hexachlorobenzene

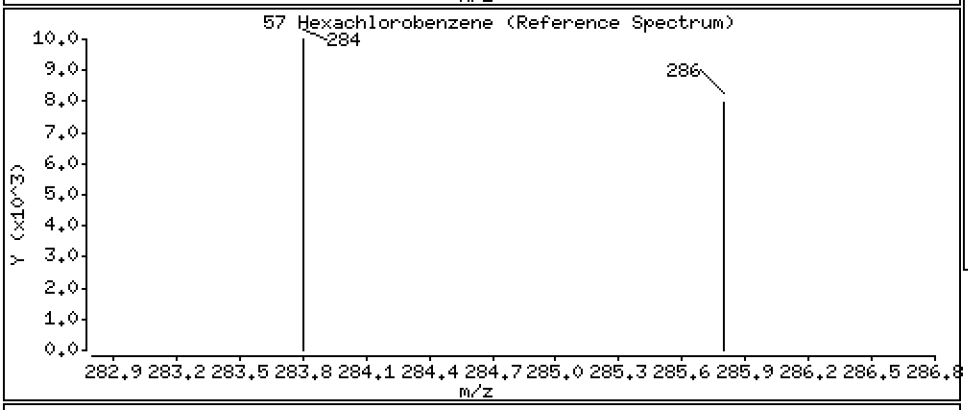
Concentration: 3.805 ug/L

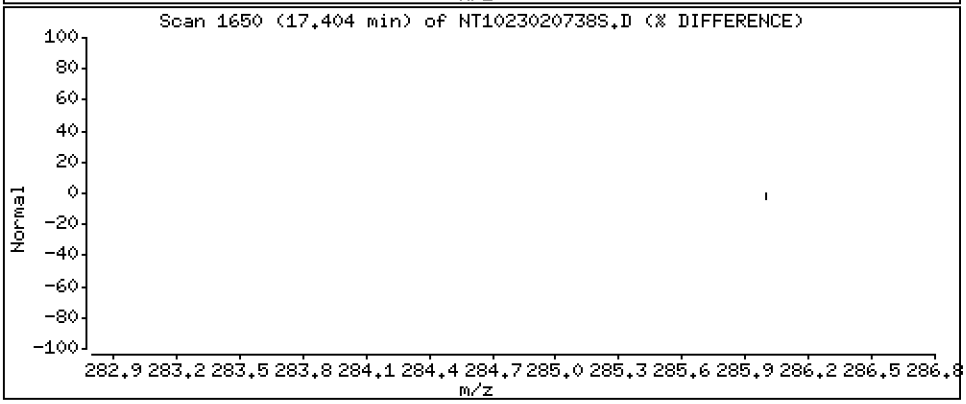












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

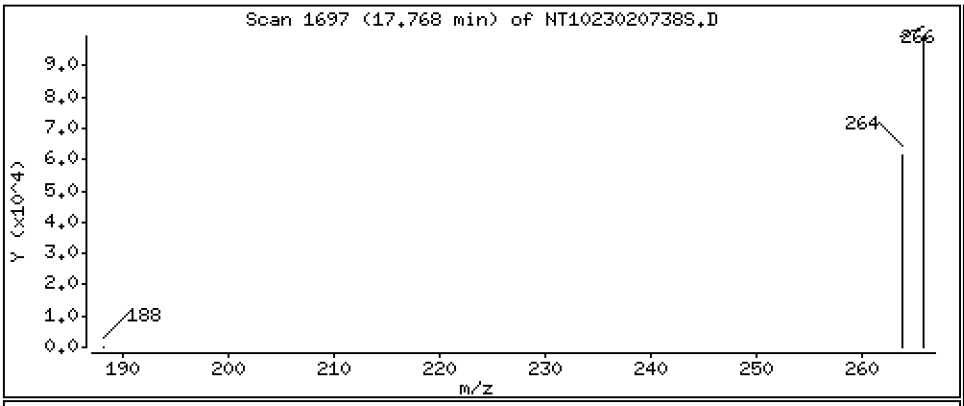
Operator: DSD

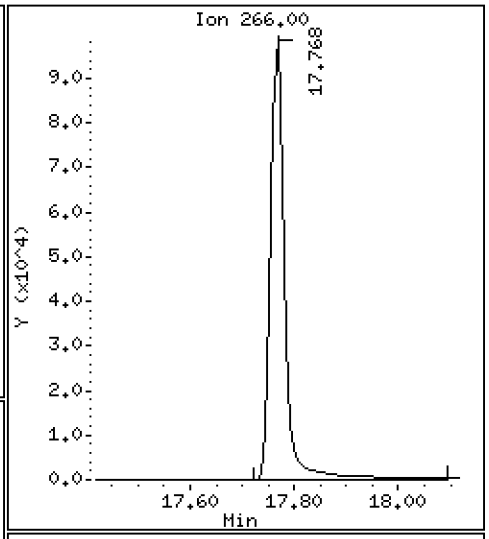
Column phase: ZB-5msi

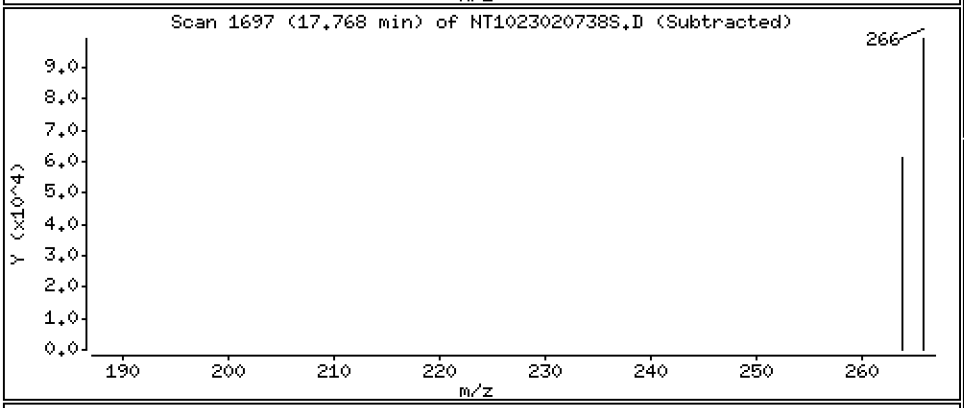
Column diameter: 0.25

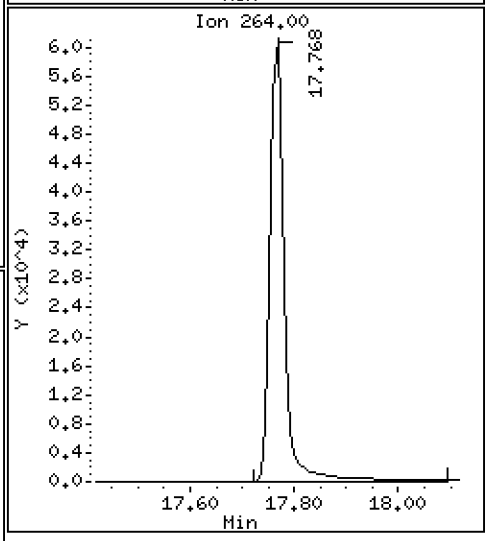
58 Pentachlorophenol

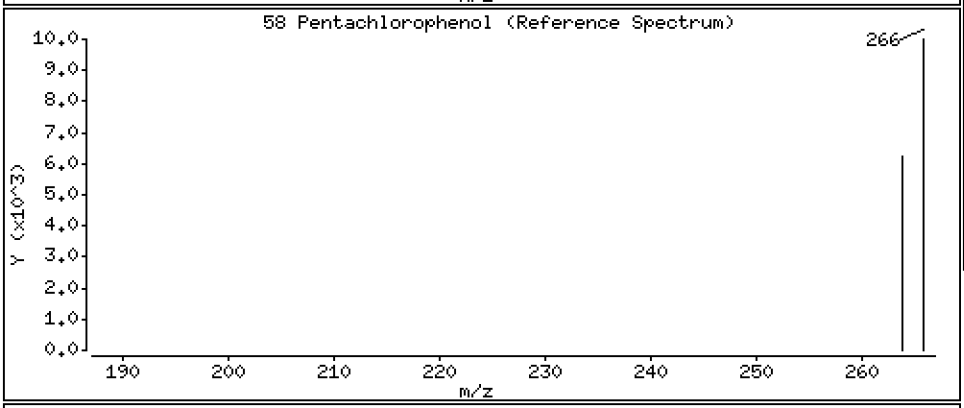
Concentration: 16.47 ug/L

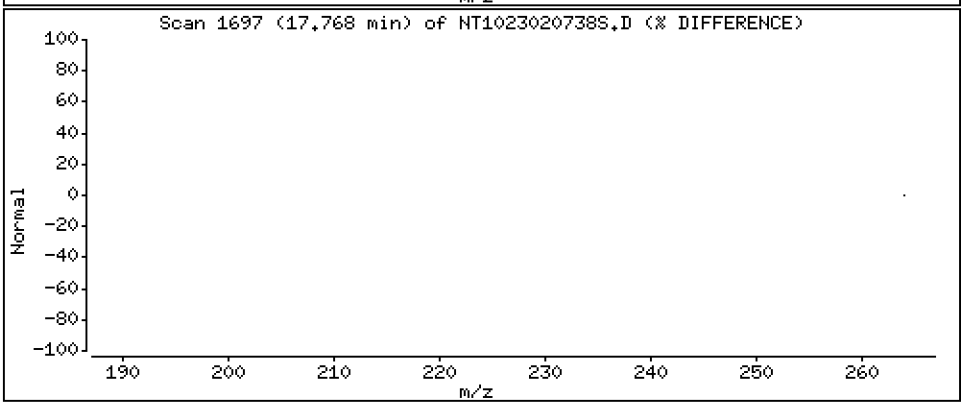












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

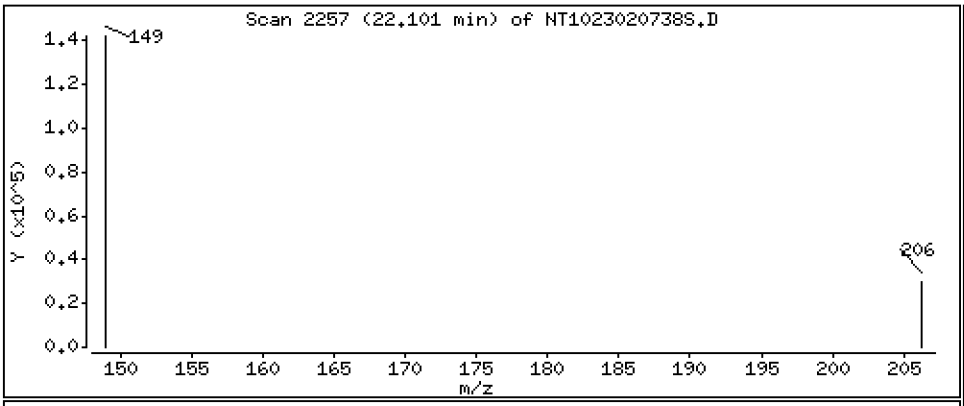
Operator: DSD

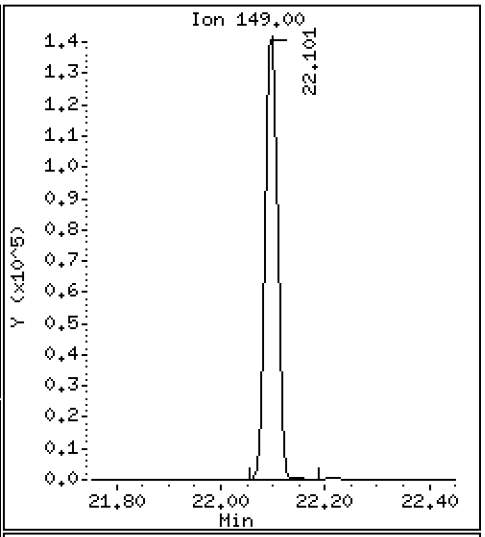
Column phase: ZB-5msi

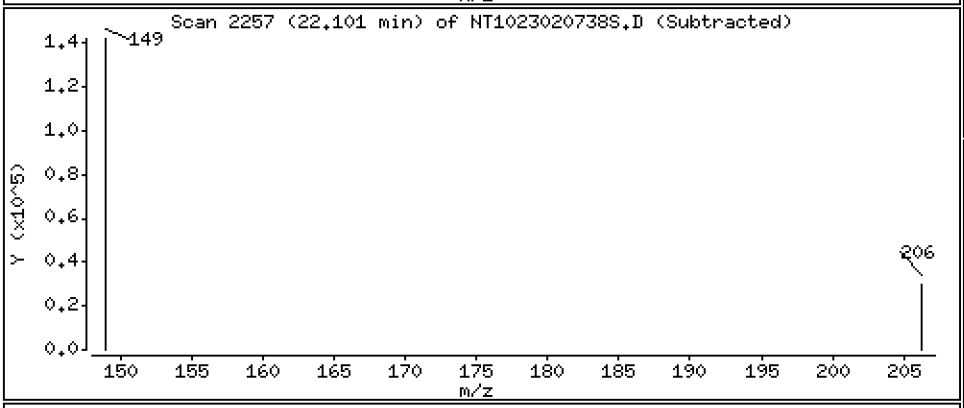
Column diameter: 0.25

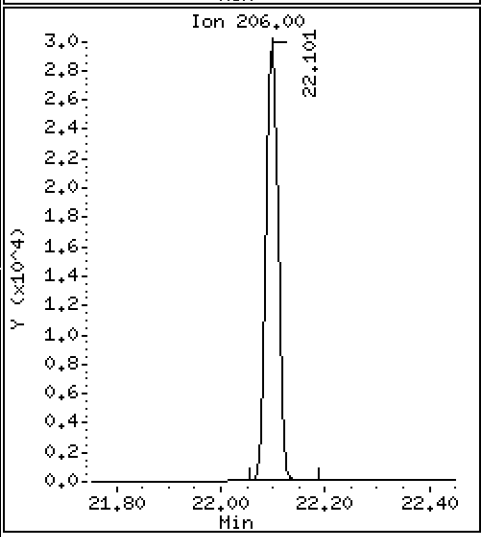
67 Butylbenzylphthalate

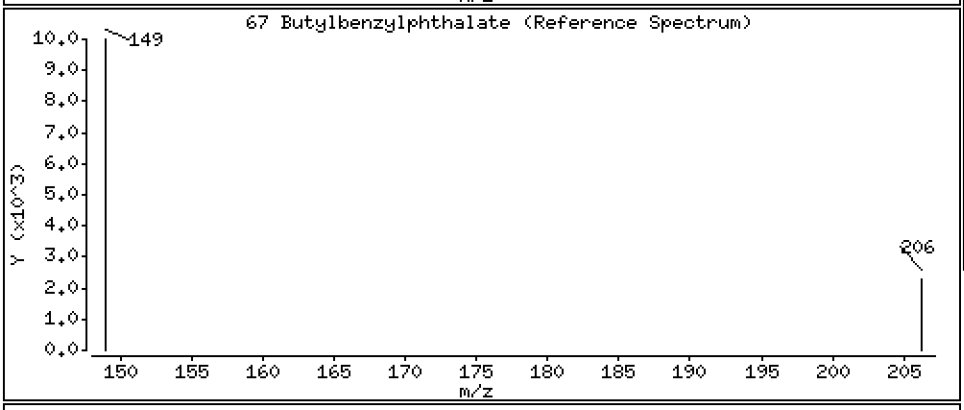
Concentration: 5.002 ug/L

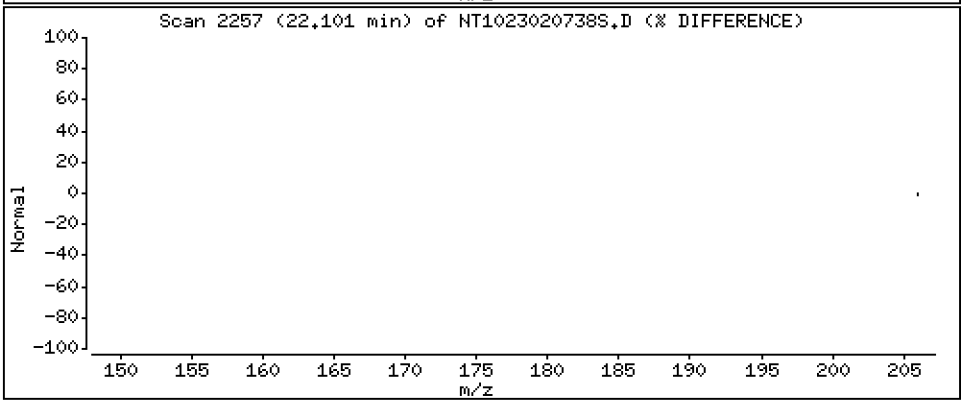












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

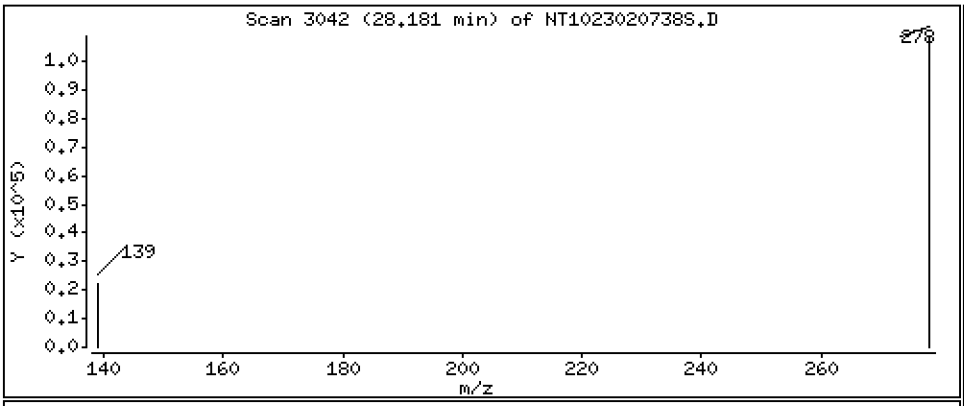
Operator: DSD

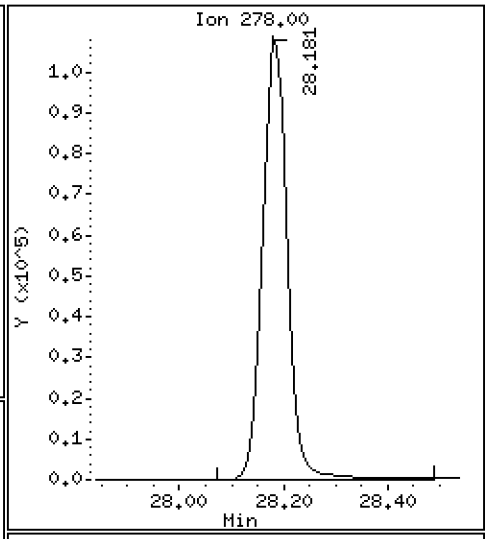
Column phase: ZB-5msi

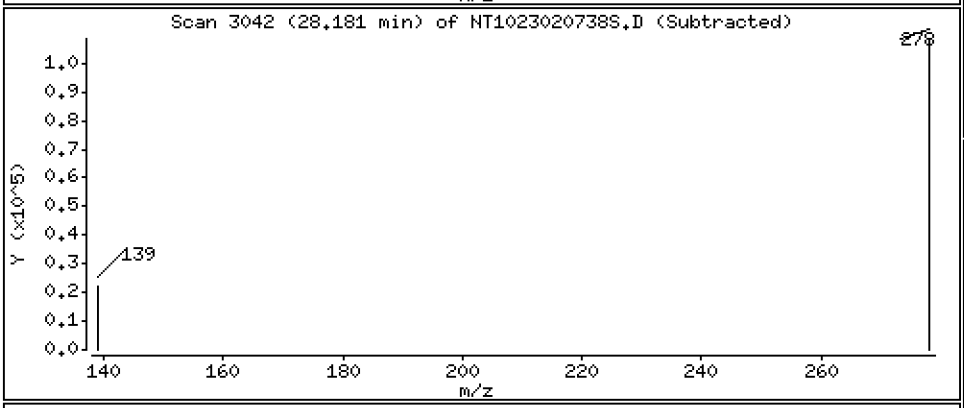
Column diameter: 0.25

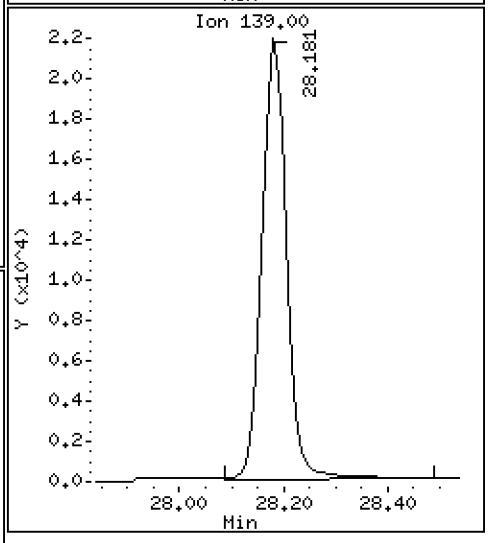
79 Dibenzo(a,h)anthracene

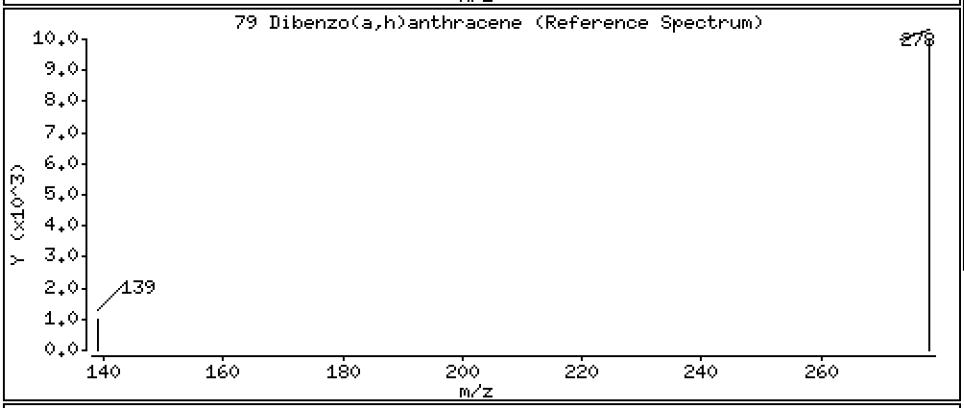
Concentration: 3.798 ug/L

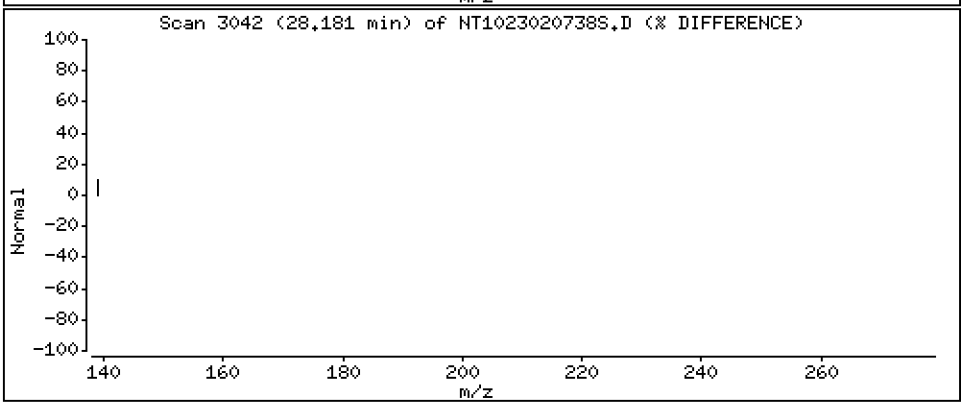












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207385.D

Date : 08-FEB-2023 11:13

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-BSD2

Volume Injected (uL): 1.0

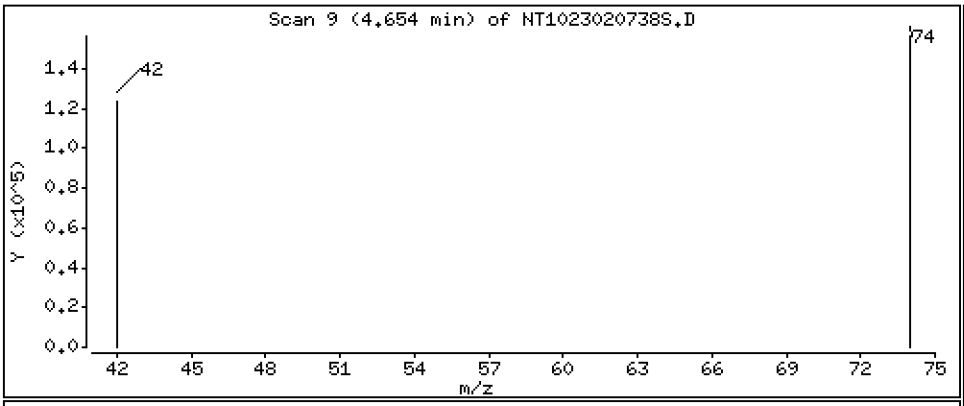
Operator: DSD

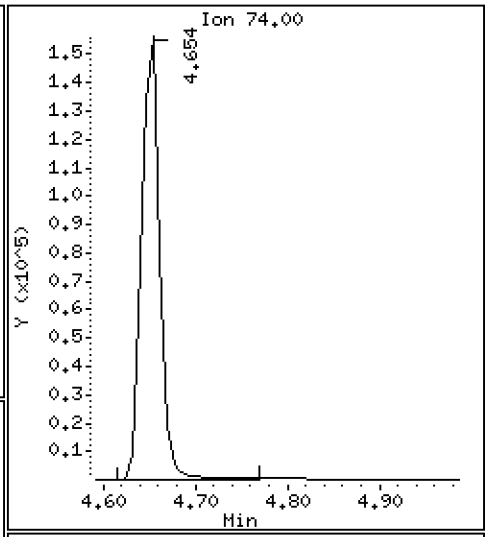
Column phase: ZB-5msi

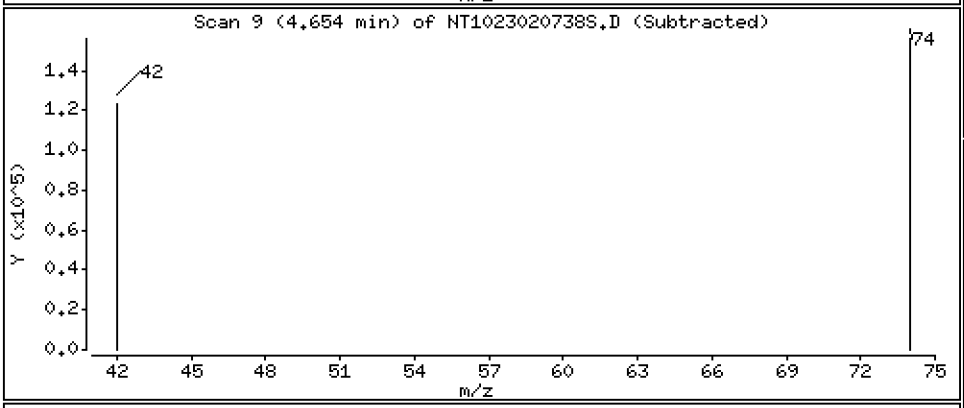
Column diameter: 0.25

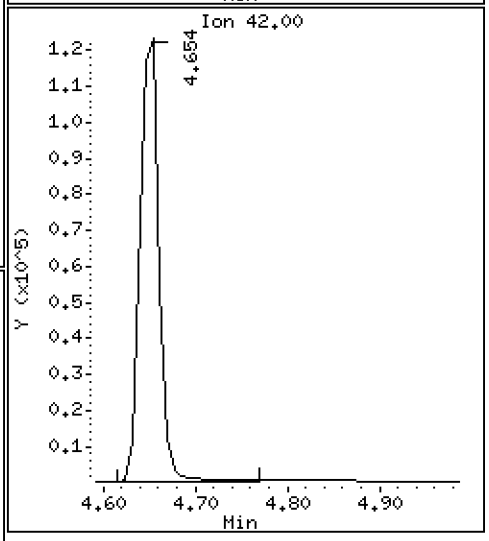
90 N-Nitrosodimethylamine

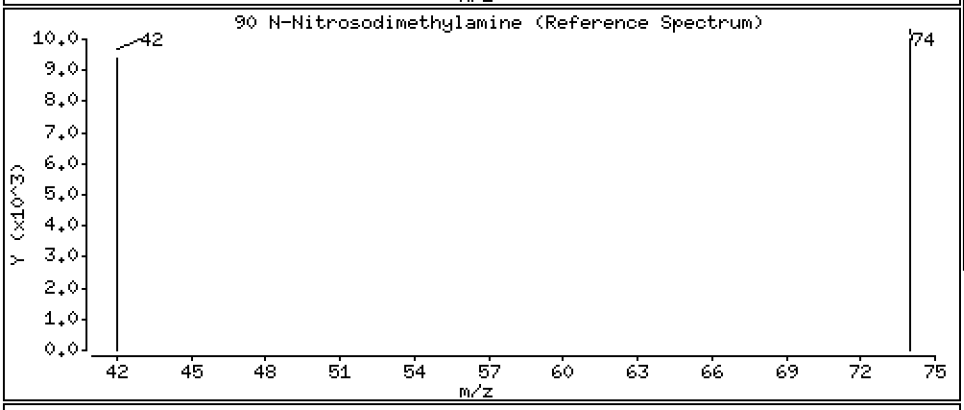
Concentration: 10.17 ug/L

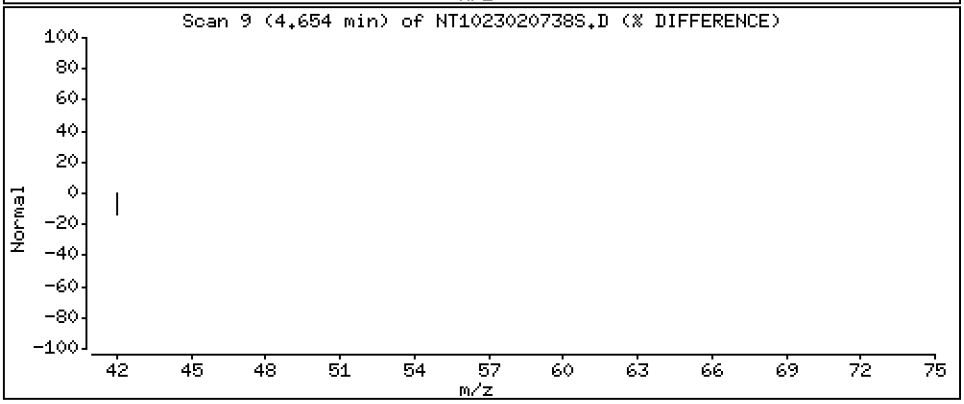












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020738S.D
Lab Smp Id: BLA0064-BSD2
Inj Date : 08-FEB-2023 11:13 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLA0064-BSD2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
$	1 2-Fluorophenol	112	6.785	6.777	(0.756)	181001	5.54124	5.541(R)
	3 Phenol	94	8.369	8.369	(0.933)	179186	3.63799	3.638
	7 1,3-Dichlorobenzene	146	8.902	8.902	(0.992)	148680	3.35197	3.352
*	8 1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	107414	4.00000	
	9 1,4-Dichlorobenzene	146	8.995	8.996	(1.003)	149756	3.45324	3.453
	11 Benzyl alcohol	79	9.236	9.236	(1.029)	106256	4.42221	4.422
	12 1,2-Dichlorobenzene	146	9.353	9.353	(1.042)	147048	3.47414	3.474
	13 2-Methylphenol	108	9.461	9.461	(1.055)	95560	2.84190	2.842
	15 4-Methylphenol	108	9.733	9.733	(1.085)	119822	3.49376	3.494
	16 N-Nitroso-di-n-propylamine	70	9.787	9.780	(1.091)	99219	4.05262	4.053
	22 2,4-Dimethylphenol	107	10.763	10.763	(0.942)	92072	2.57454	2.575
	24 Benzoic acid	105	11.026	10.924	(0.965)	545139	27.1528	27.15
	26 1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	116825	3.48511	3.485
*	27 Naphthalene-d8	136	11.427	11.427	(1.000)	407123	4.00000	
	30 Hexachlorobutadiene	225	11.829	11.829	(1.035)	66843	3.65224	3.652
	39 Dimethylphthalate	163	14.522	14.514	(0.968)	197746	4.20853	4.209
*	42 Acenaphthene-d10	162	15.009	15.009	(1.000)	201603	4.00000	
	50 Diethylphthalate	149	15.968	15.960	(1.064)	333415	4.71168	4.712
	54 N-Nitrosodiphenylamine	169	16.346	16.346	(0.907)	205468	3.37037	3.370
	57 Hexachlorobenzene	284	17.404	17.404	(0.966)	98729	3.80535	3.805

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.767	17.768	(0.986)	178771	16.4739	16.47
*	59 Phenanthrene-d10	188	18.023	18.023	(1.000)	368890	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.917)	321064	4.85272	4.853(R)
	67 Butylbenzylphthalate	149	22.101	22.101	(0.958)	223707	5.00219	5.002
*	69 Chrysene-d12	240	23.069	23.069	(1.000)	298075	4.00000	
*	77 Perylene-d12	264	25.624	25.631	(1.000)	333508	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.180	28.188	(1.100)	354986	3.79793	3.798
	90 N-Nitrosodimethylamine	74	4.654	4.638	(0.519)	217753	10.1728	10.17

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020738S.D
Lab Smp Id: BLA0064-BSD2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	107414	-13.09
27 Naphthalene-d8	454738	227369	909476	407123	-10.47
42 Acenaphthene-d10	223117	111559	446234	201603	-9.64
59 Phenanthrene-d10	408770	204385	817540	368890	-9.76
69 Chrysene-d12	339328	169664	678656	298075	-12.16
77 Perylene-d12	382671	191336	765342	333508	-12.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	-0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	-0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.01	-0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	-0.00
69 Chrysene-d12	23.07	22.57	23.57	23.07	-0.00
77 Perylene-d12	25.63	25.13	26.13	25.62	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020738S.D

Lab ID: BLA0064-BSD2
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 11:13

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.965	0.956	0.0089	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

MS / MS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	02/08/23 12:29
Batch:	BLA0064	Laboratory ID:	BLA0064-MS2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	17.66 g / 1 mL	Source Sample:	LDW23-SC1123B

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
1,4-Dichlorobenzene	500	6.6		283		55.3	36 - 120
1,2-Dichlorobenzene	500	2.6	J	284		56.4	36 - 120
Benzyl Alcohol	500	50.8		459		81.6	25 - 123
Benzoic acid	2300	116		1080		41.9	10 - 160
2,4-Dimethylphenol	1300	6.9	J	937		71.6	10 - 120
1,2,4-Trichlorobenzene	500	ND	U	318		63.7	35 - 120
N-Nitrosodiphenylamine	500	4.9	J	369		72.8	27 - 120
Pentachlorophenol	1300	14.8	J	1570		120	26 - 120

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	02/08/23 13:08
Batch:	BLA0064	Laboratory ID:	BLA0064-MSD2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	17.66 g / 1 mL	Source Sample:	LDW23-SC1123B

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	500	339		66.6	18.1	30	36 - 120
1,2-Dichlorobenzene	500	341		67.6	18.1	30	36 - 120
Benzyl Alcohol	500	499		89.6	8.36	30	25 - 123
Benzoic acid	2300	1500	*	60.2	32.6 *	30	10 - 160
2,4-Dimethylphenol	1300	1390	*	107	39.1 *	30	10 - 120
1,2,4-Trichlorobenzene	500	363		72.7	13.2	30	35 - 120
N-Nitrosodiphenylamine	500	375		74.0	1.52	30	27 - 120
Pentachlorophenol	1300	1650	*	126 *	4.87	30	26 - 120

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207405.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

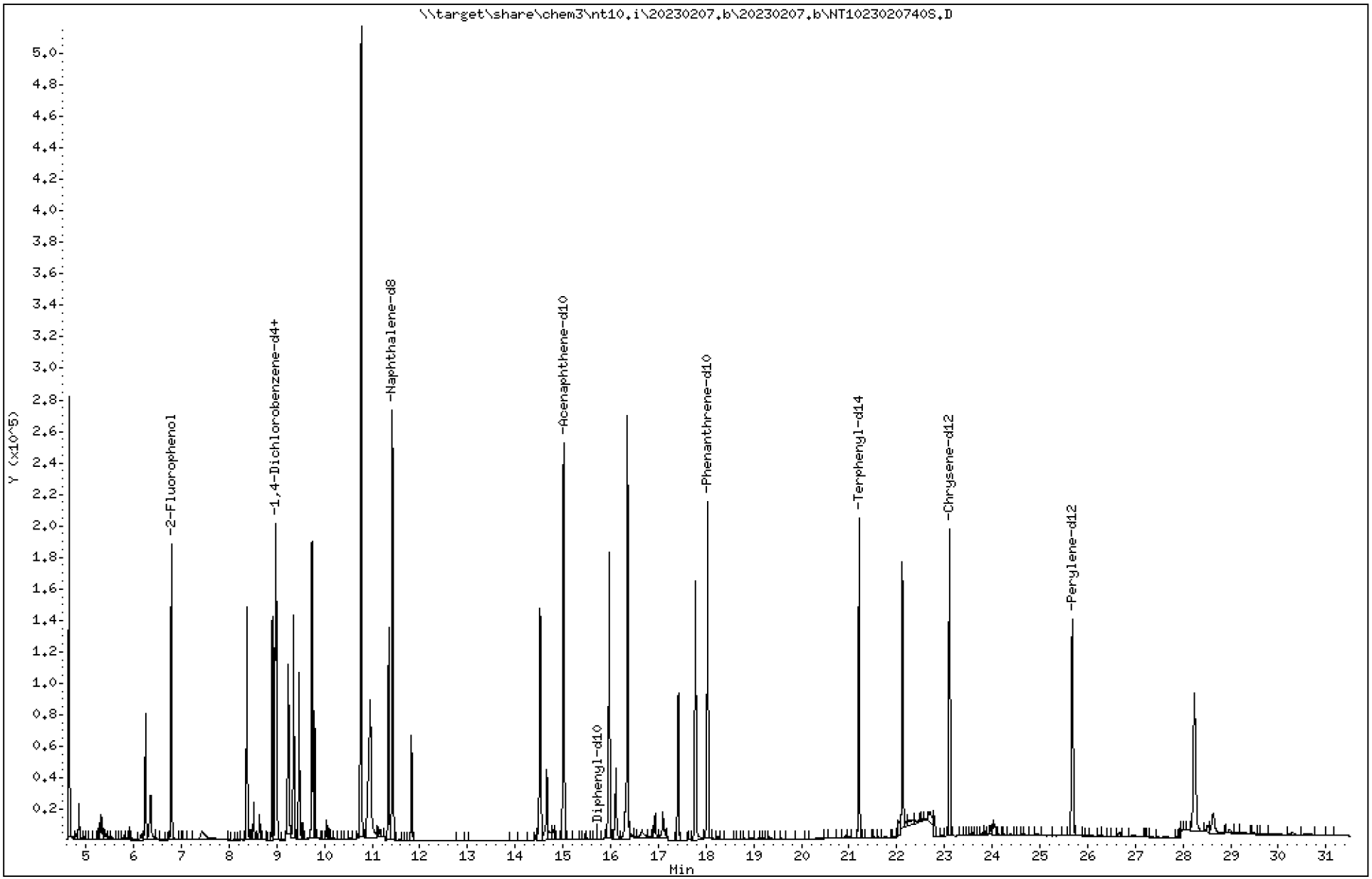
Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207405.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

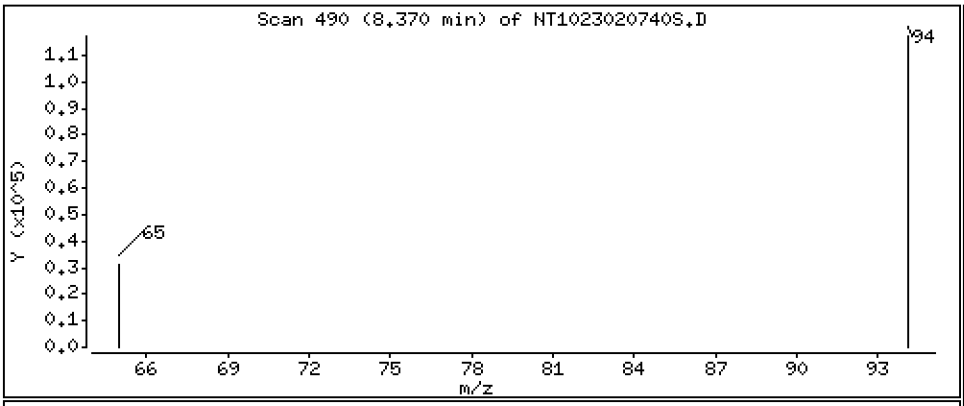
Operator: DSD

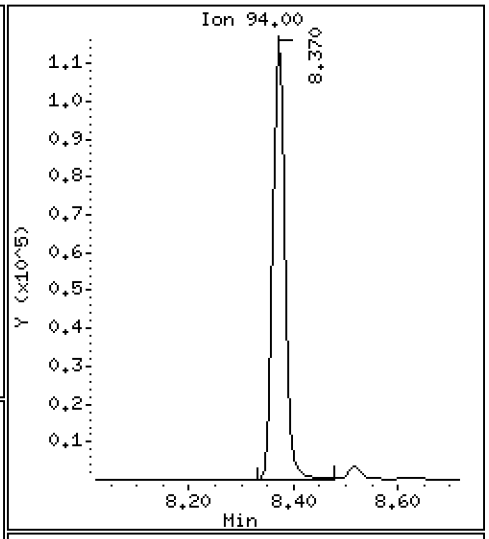
Column phase: ZB-5msi

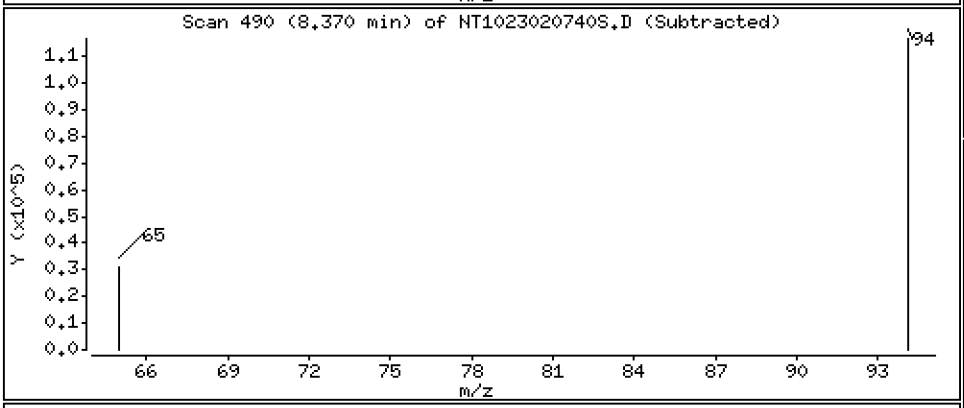
Column diameter: 0.25

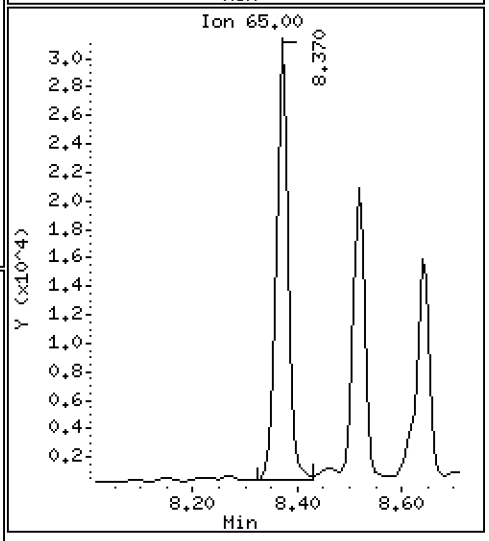
3 Phenol

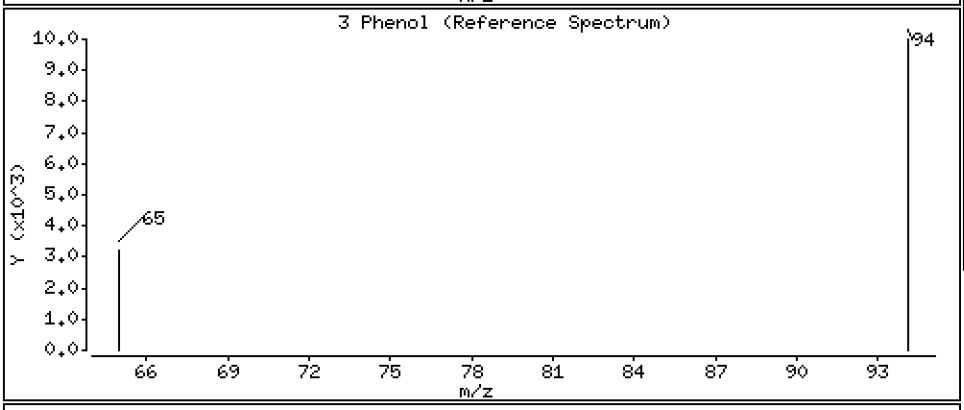
Concentration: 3.391 ug/L

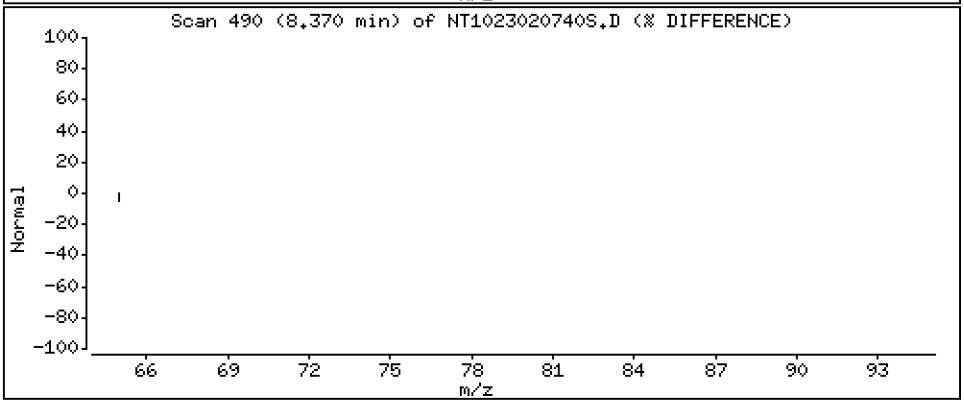












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207405.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

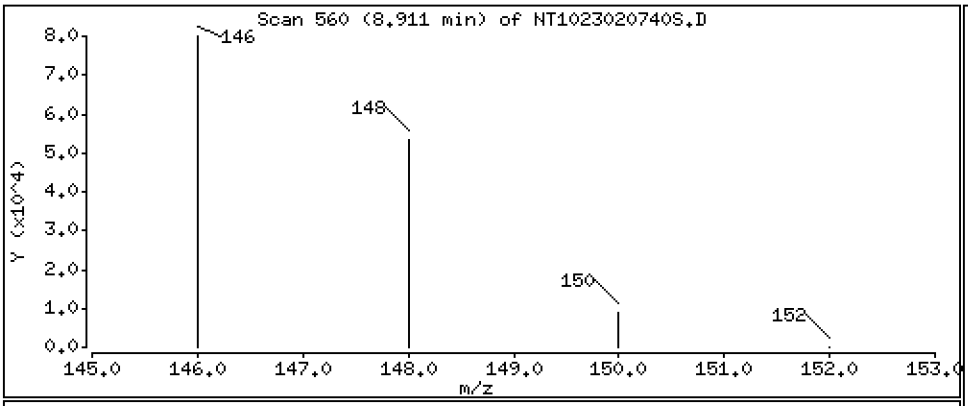
Operator: DSD

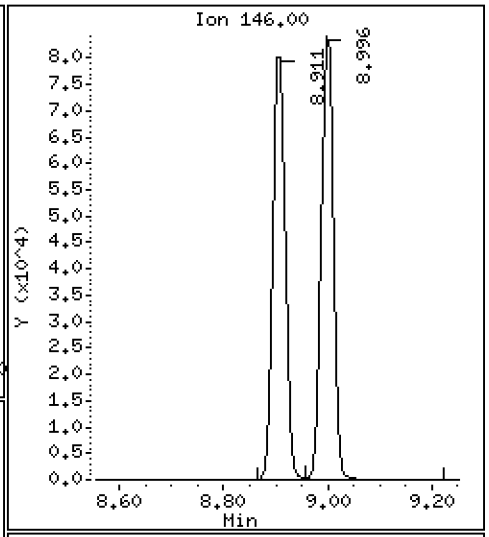
Column phase: ZB-5msi

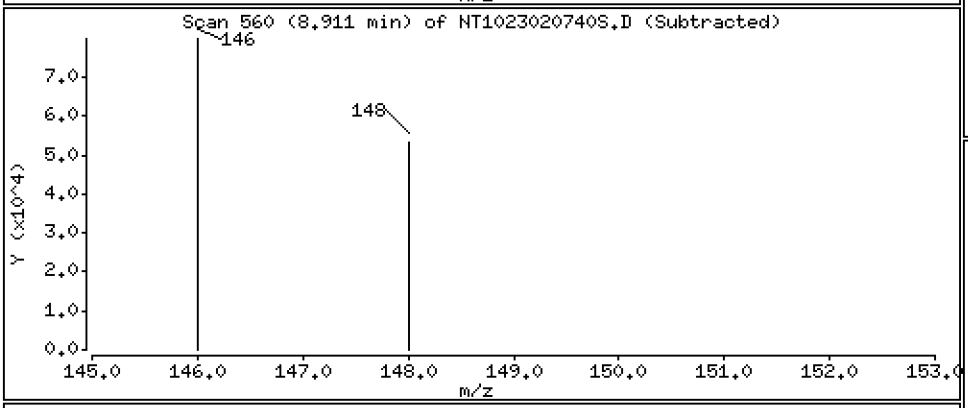
Column diameter: 0.25

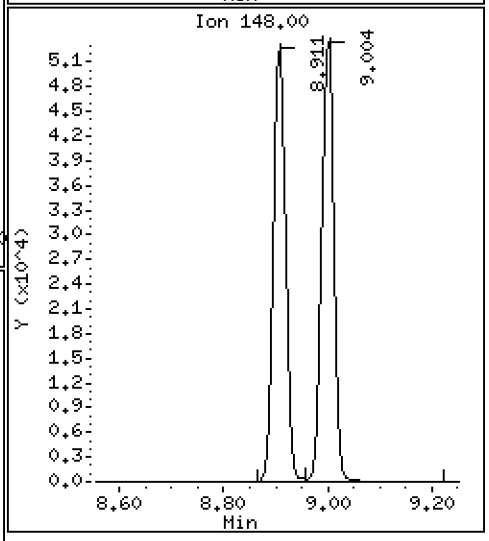
7 1,3-Dichlorobenzene

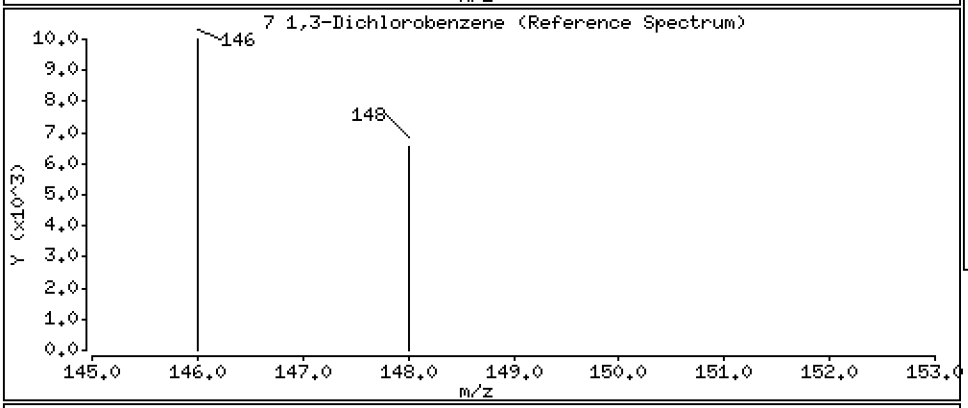
Concentration: 2.714 ug/L

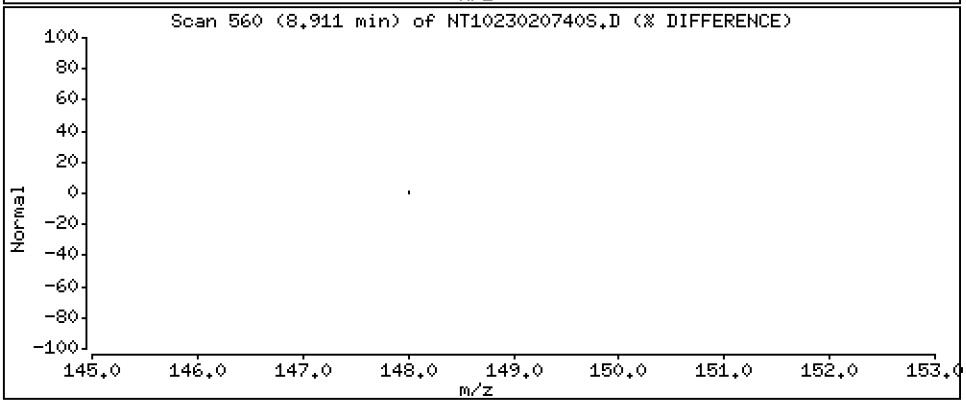












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207405.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

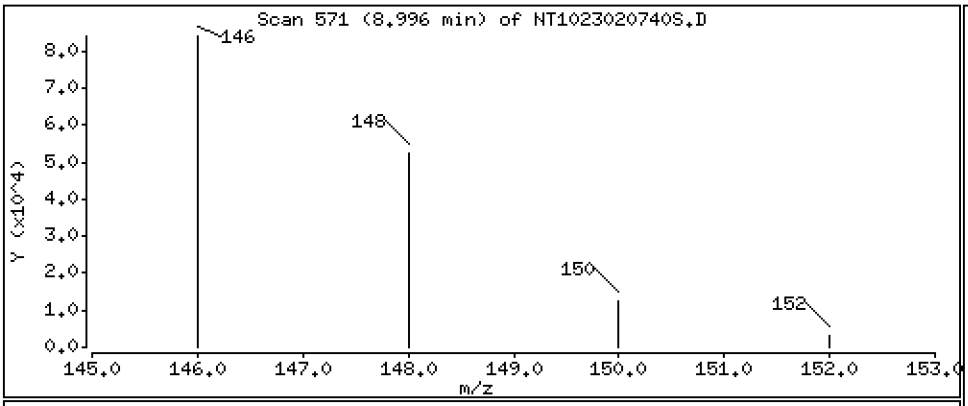
Operator: DSD

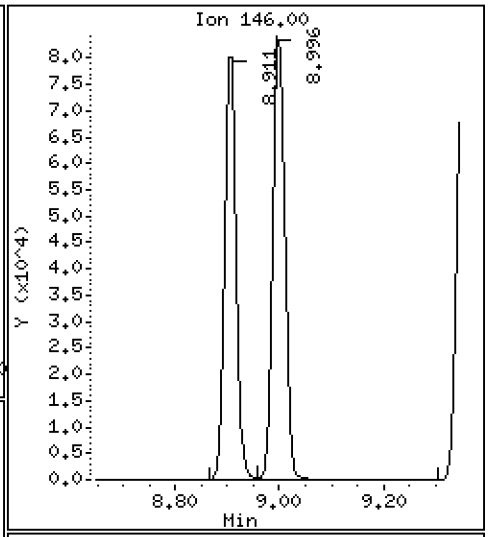
Column phase: ZB-5msi

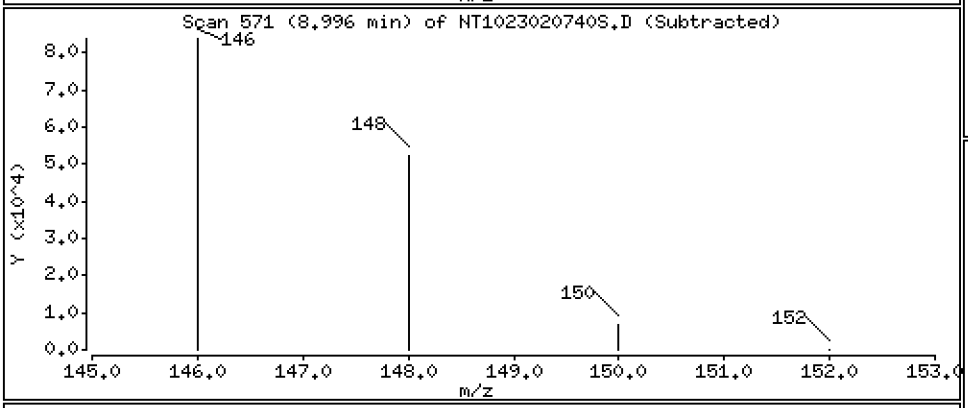
Column diameter: 0.25

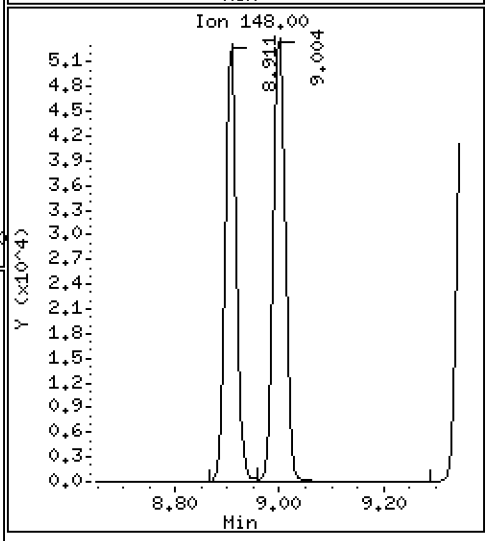
9 1,4-Dichlorobenzene

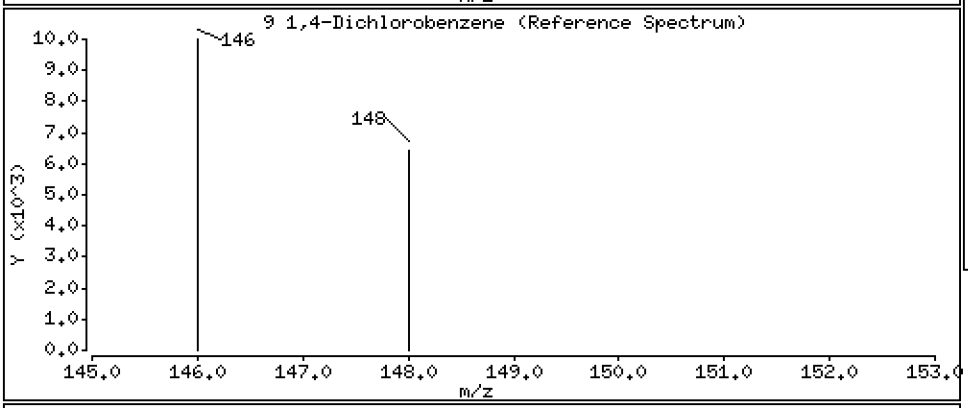
Concentration: 2.832 ug/L

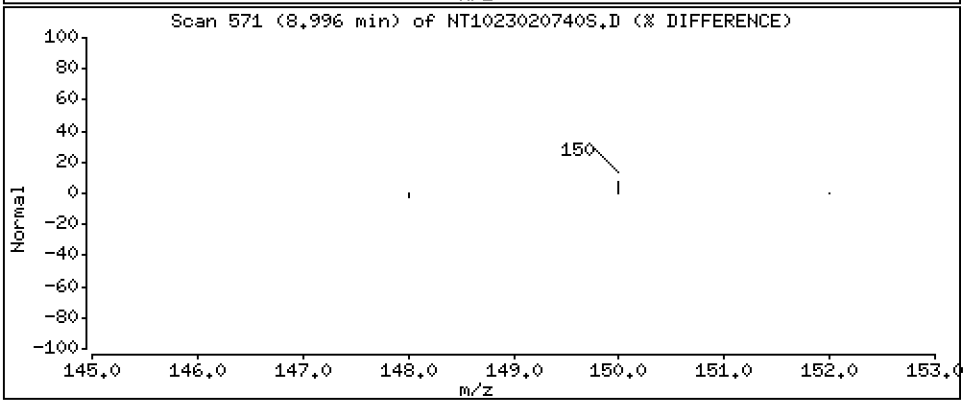












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207405.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

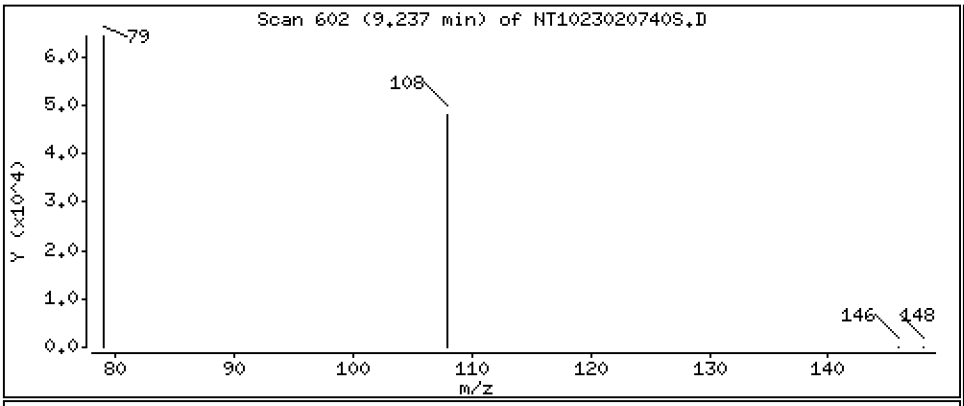
Operator: DSD

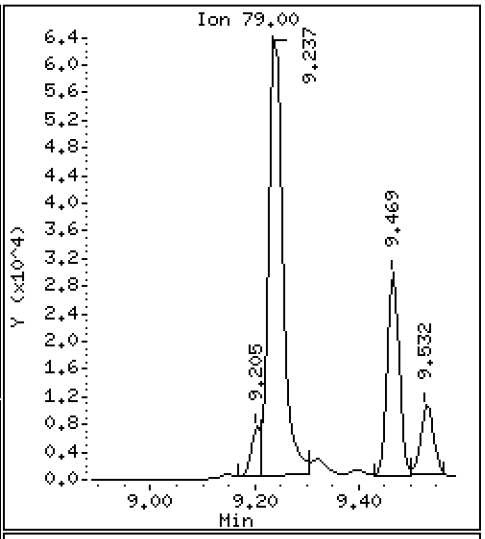
Column phase: ZB-5msi

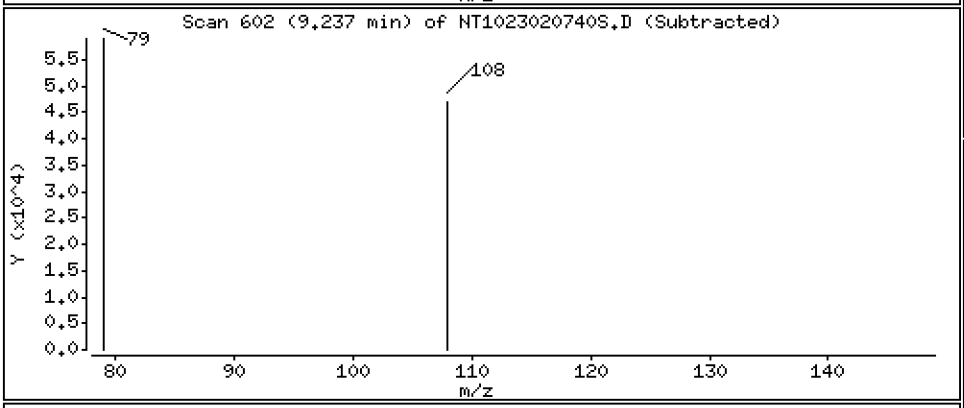
Column diameter: 0.25

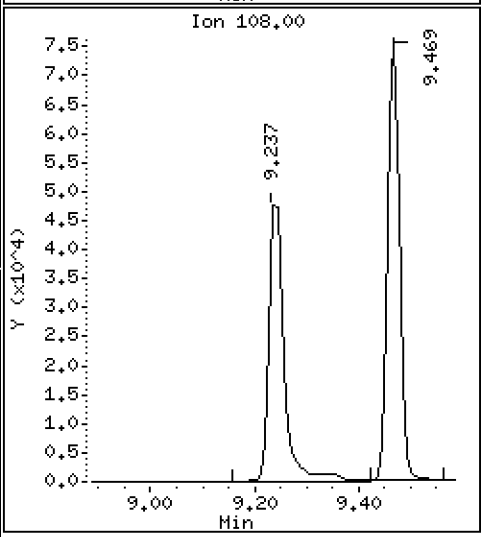
11 Benzyl alcohol

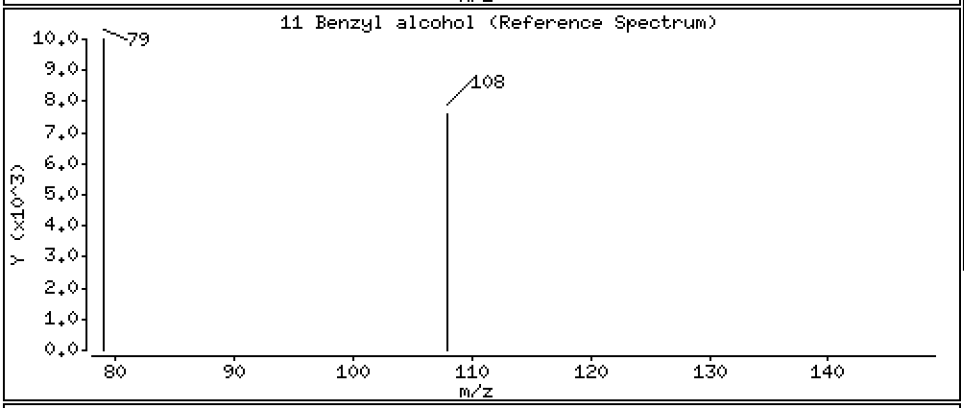
Concentration: 4.590 ug/L

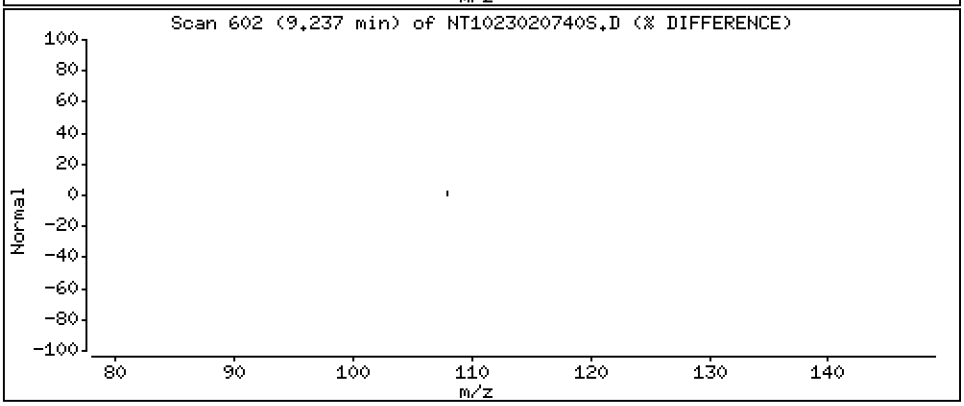












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207405.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

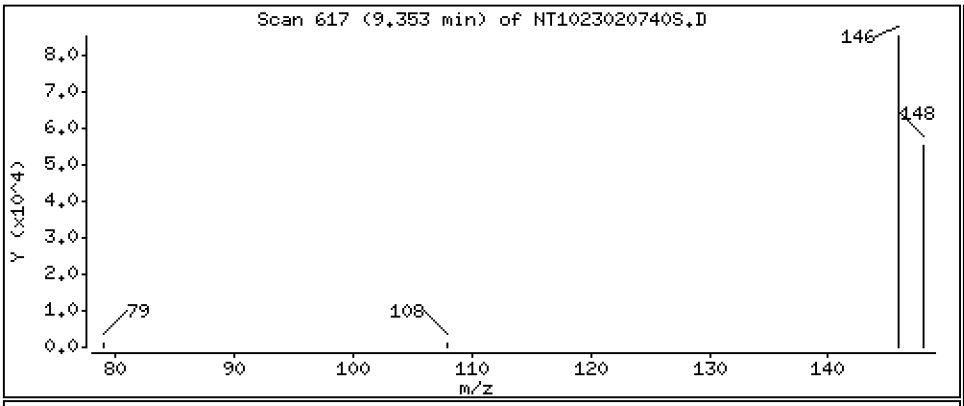
Operator: DSD

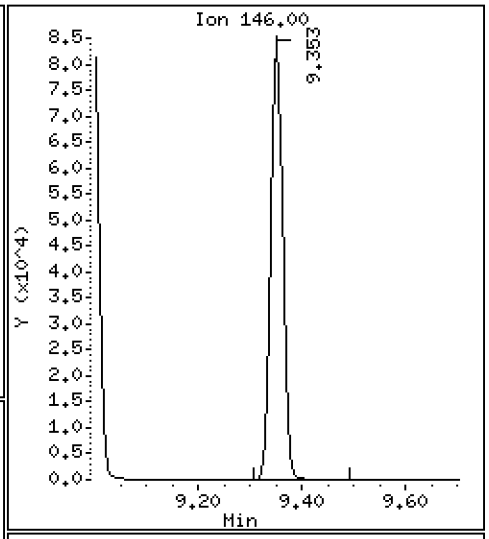
Column phase: ZB-5msi

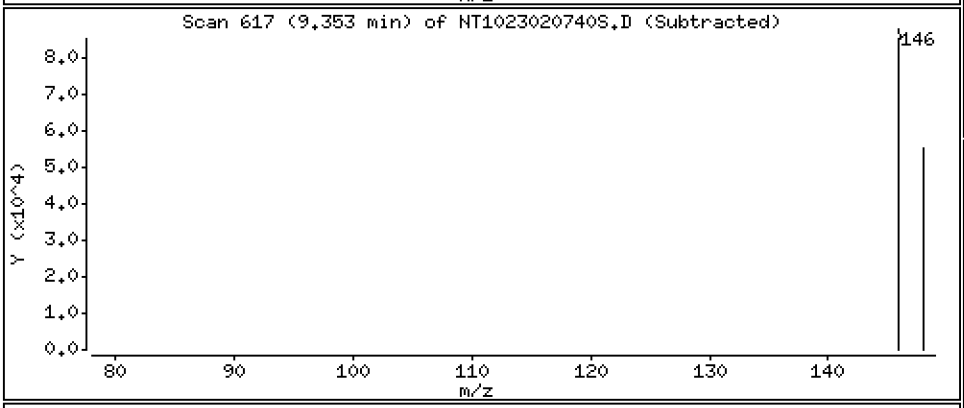
Column diameter: 0.25

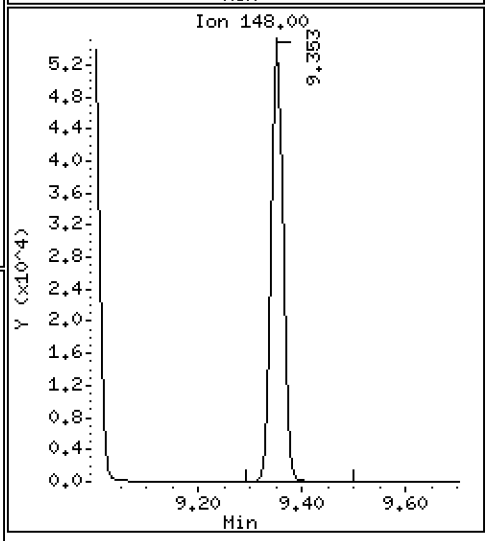
12 1,2-Dichlorobenzene

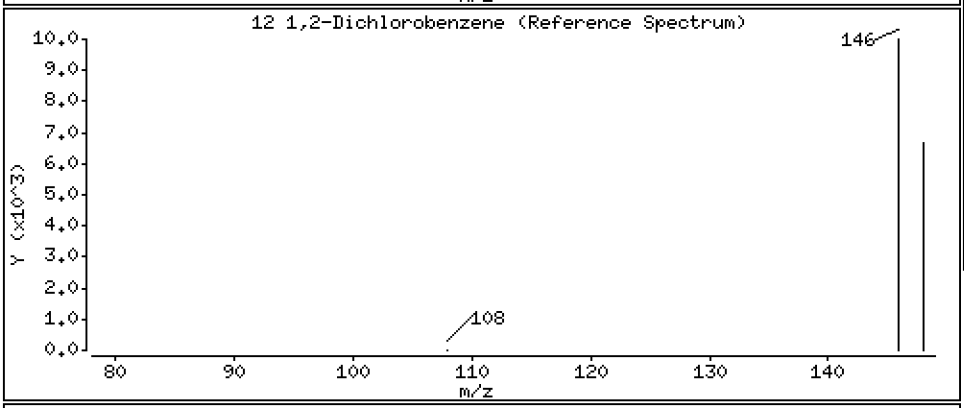
Concentration: 2.843 ug/L

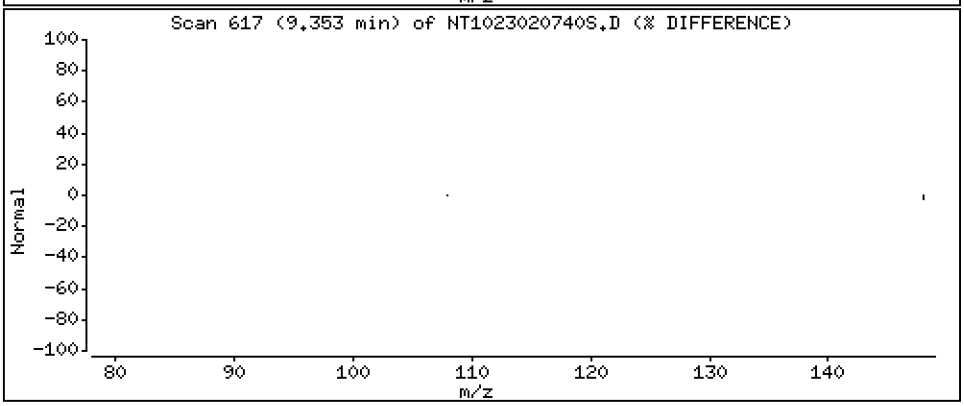












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207405.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

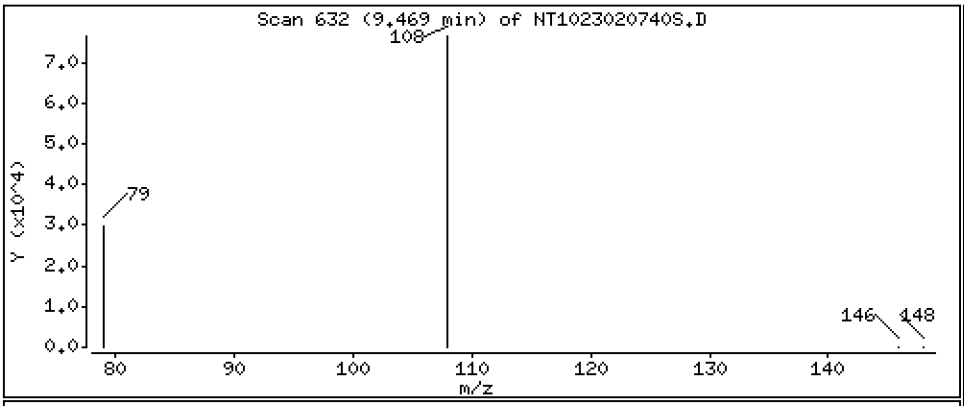
Operator: DSD

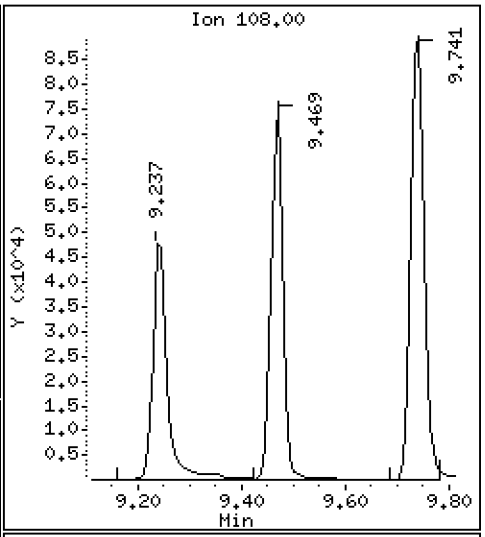
Column phase: ZB-5msi

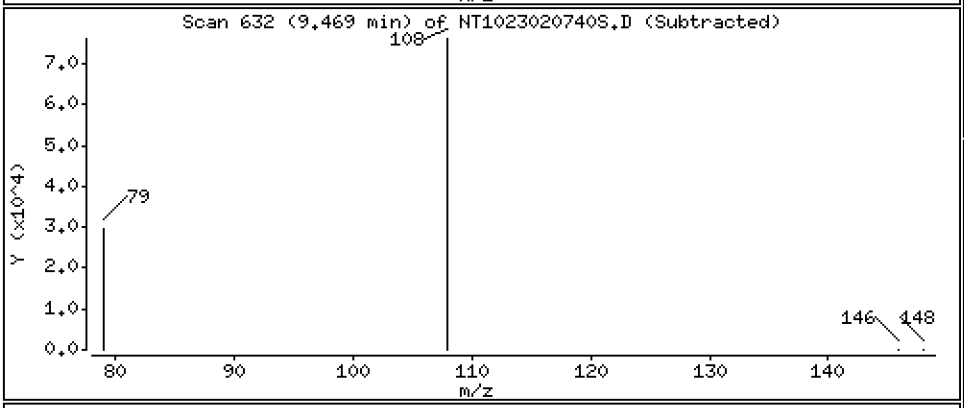
Column diameter: 0.25

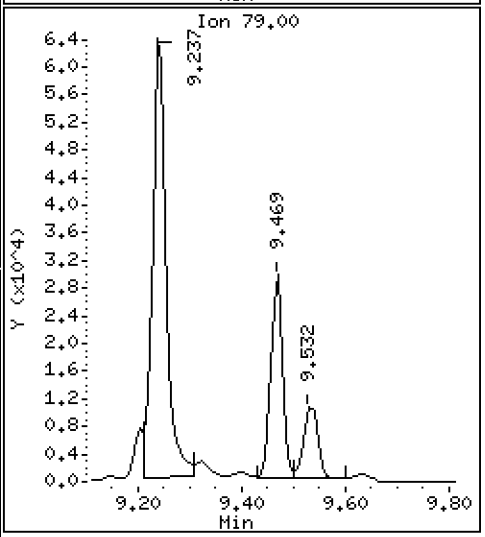
13 2-Methylphenol

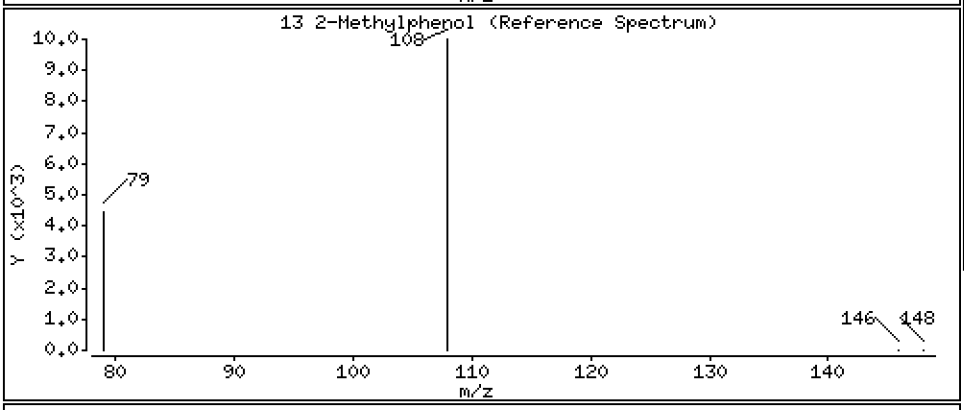
Concentration: 3.247 ug/L

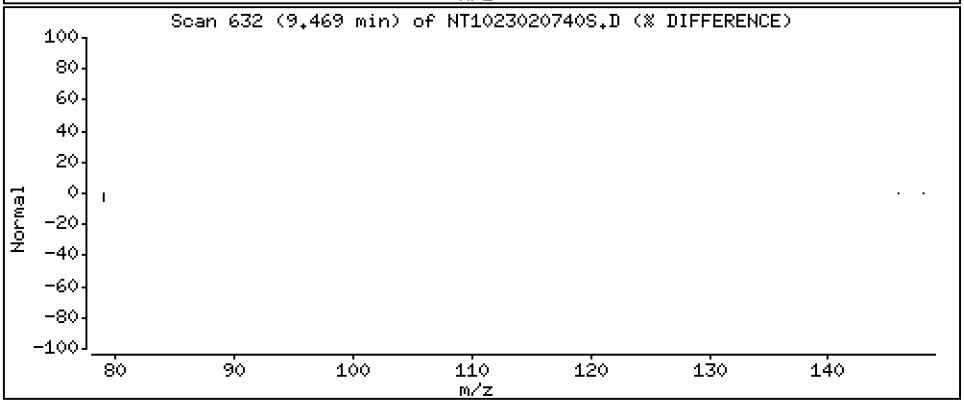












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020740S.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

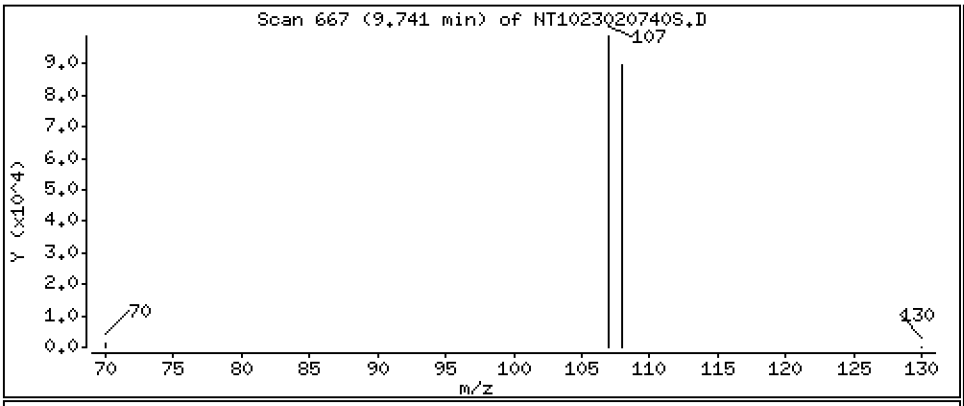
Operator: DSD

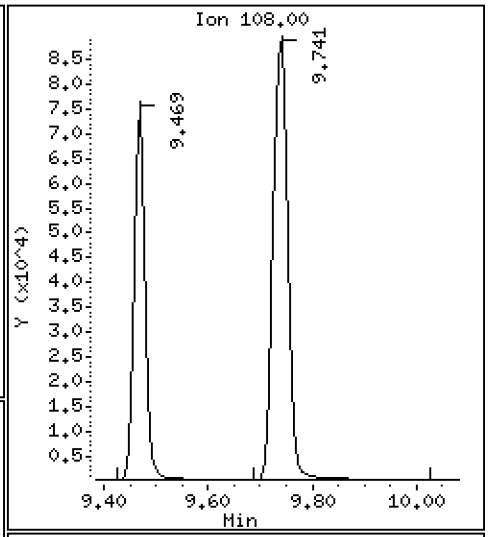
Column phase: ZB-5msi

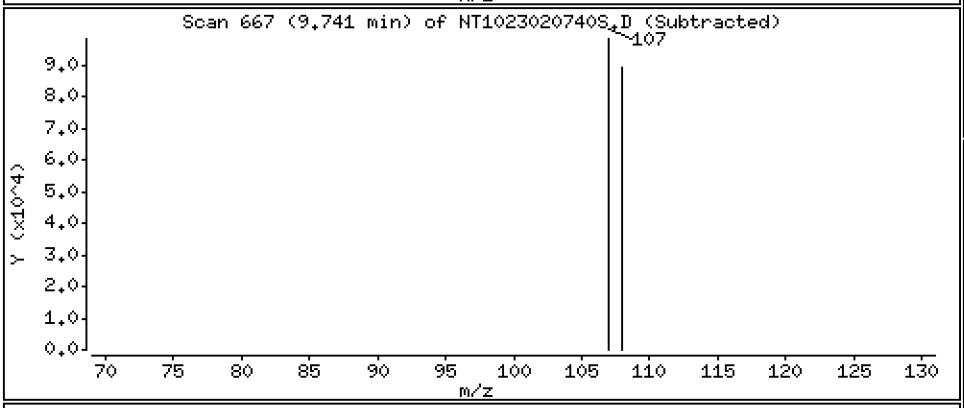
Column diameter: 0.25

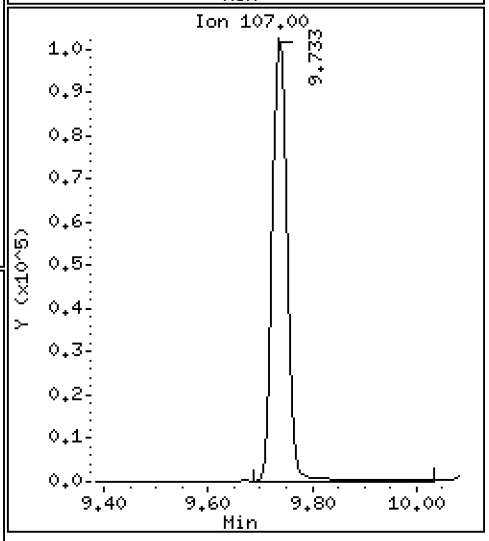
15 4-Methylphenol

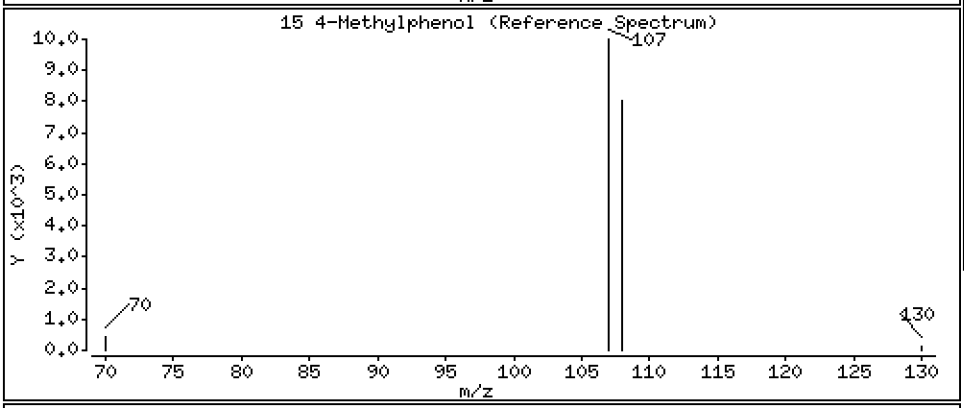
Concentration: 4.706 ug/L

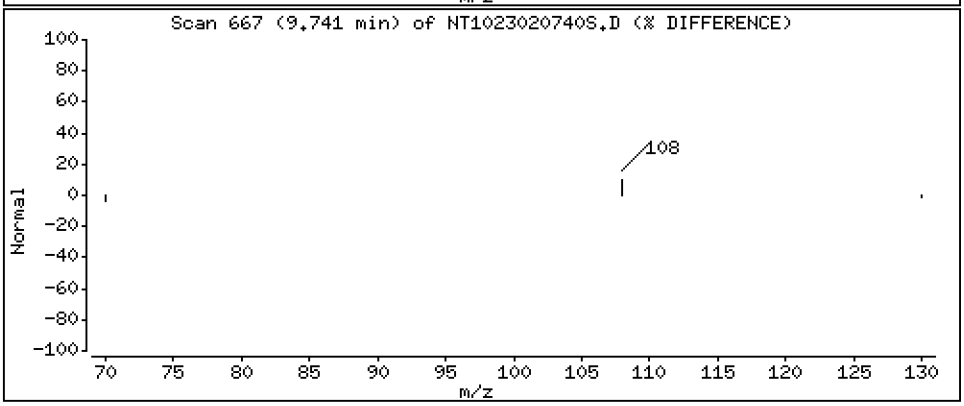












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207405.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

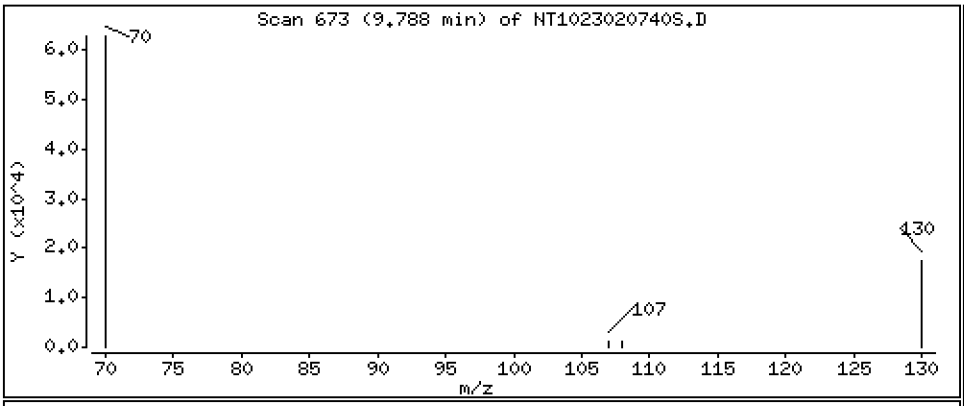
Operator: DSD

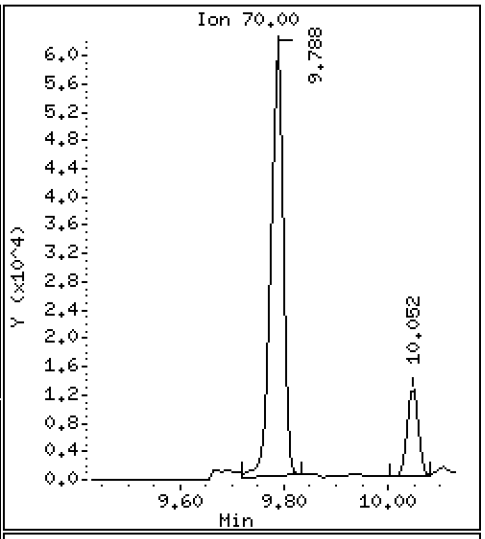
Column phase: ZB-5msi

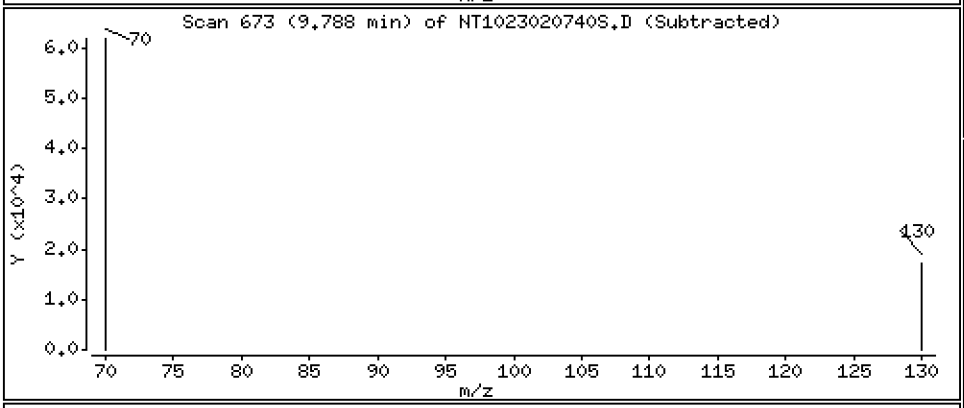
Column diameter: 0.25

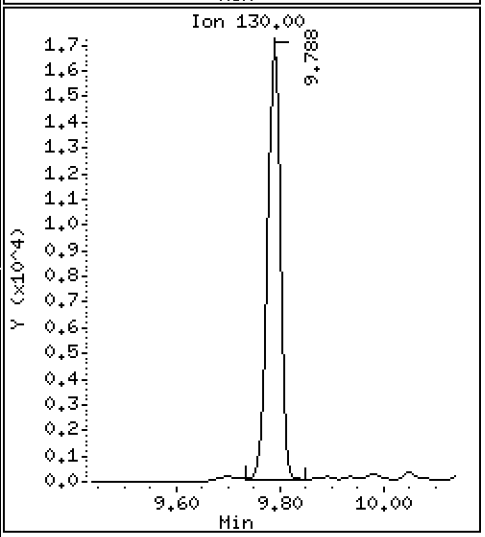
16 N-Nitroso-di-n-propylamine

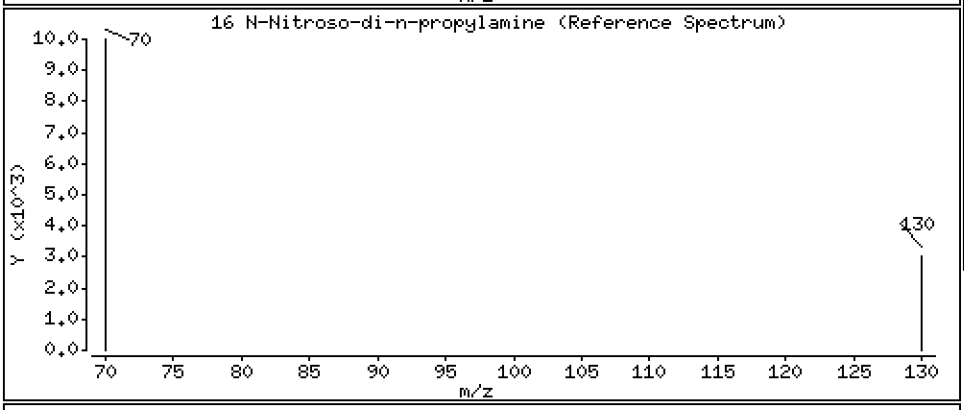
Concentration: 3.808 ug/L

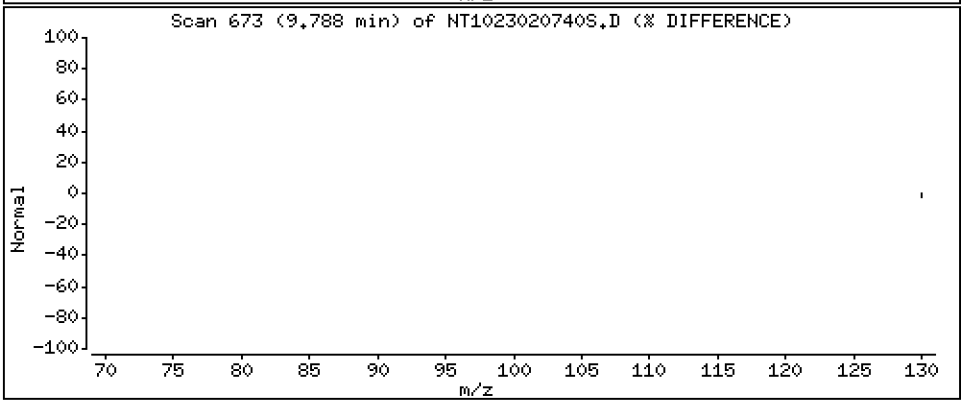












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Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

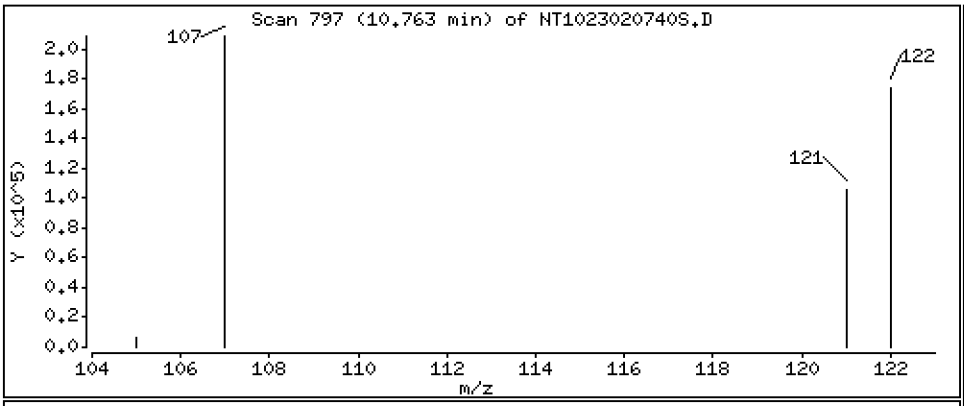
Operator: DSD

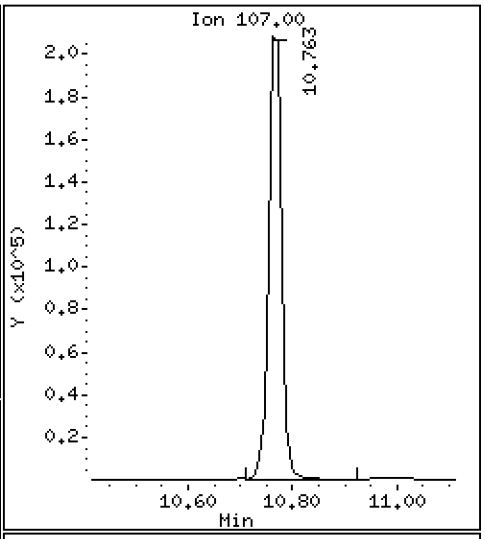
Column phase: ZB-5msi

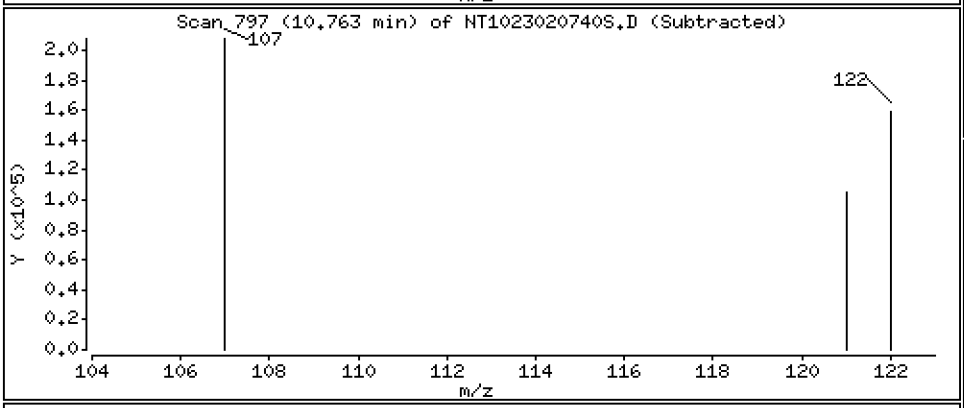
Column diameter: 0.25

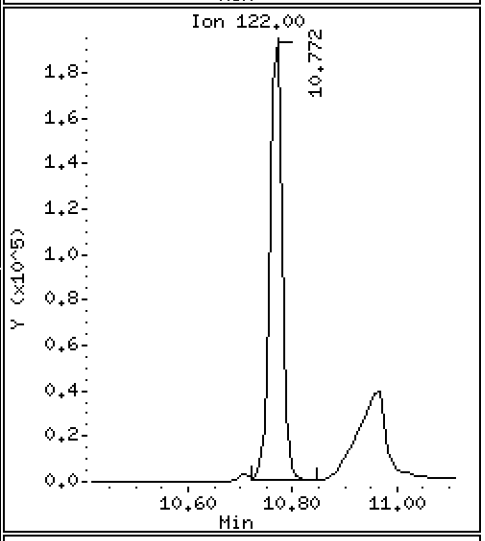
22 2,4-Dimethylphenol

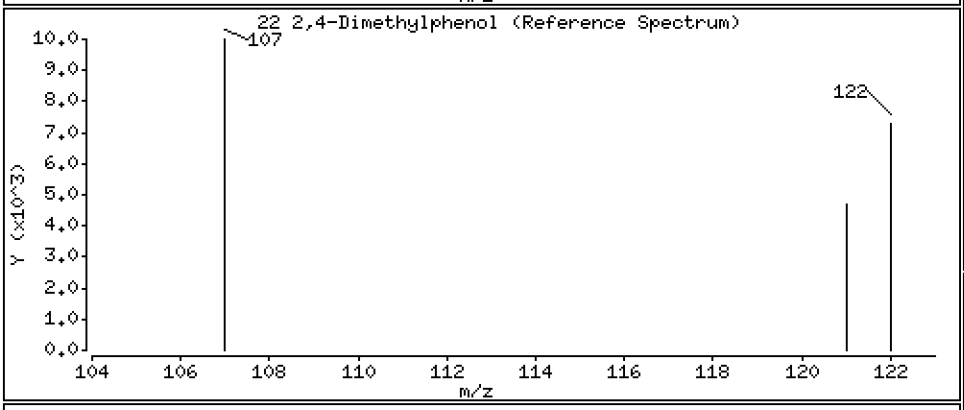
Concentration: 9.372 ug/L

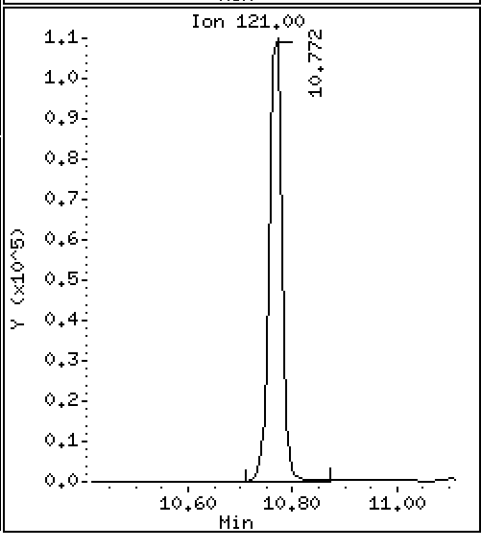


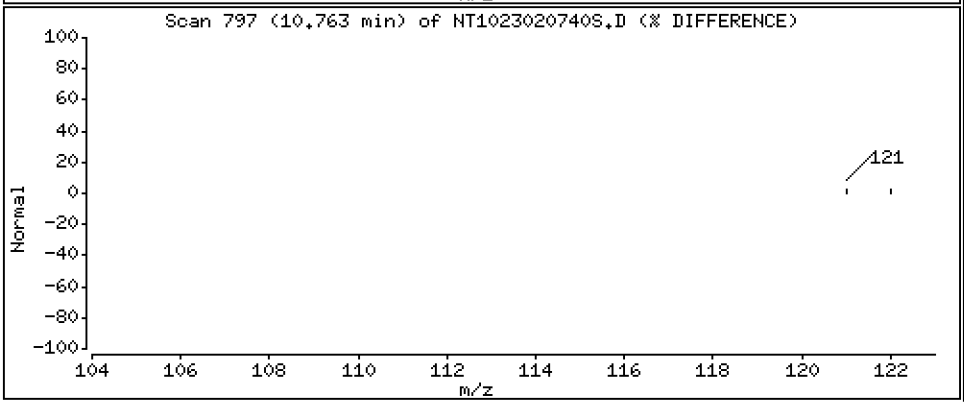












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Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

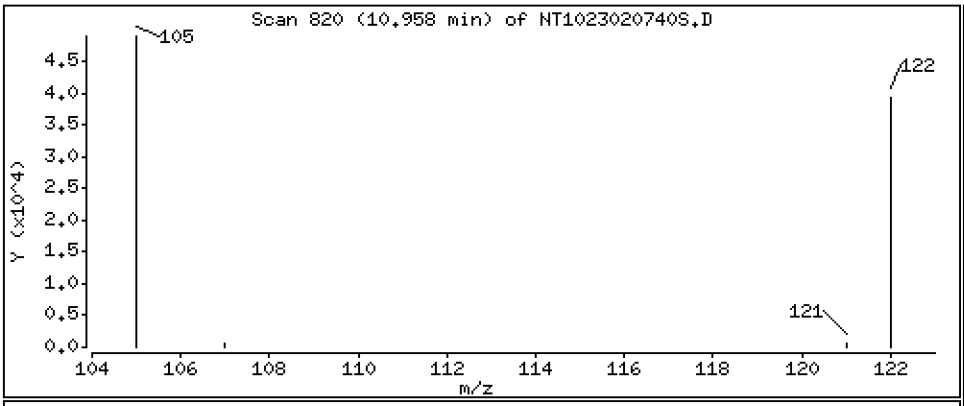
Operator: DSD

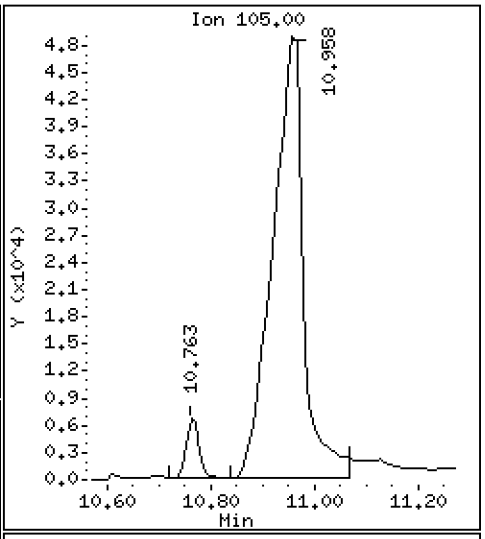
Column phase: ZB-5msi

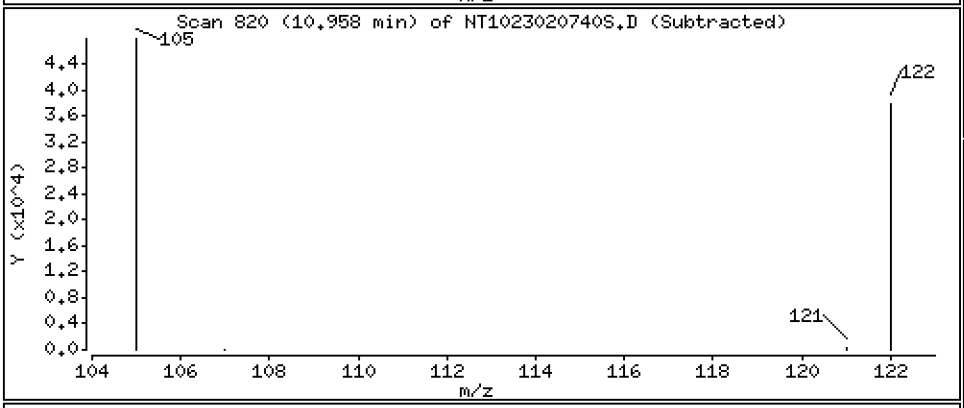
Column diameter: 0.25

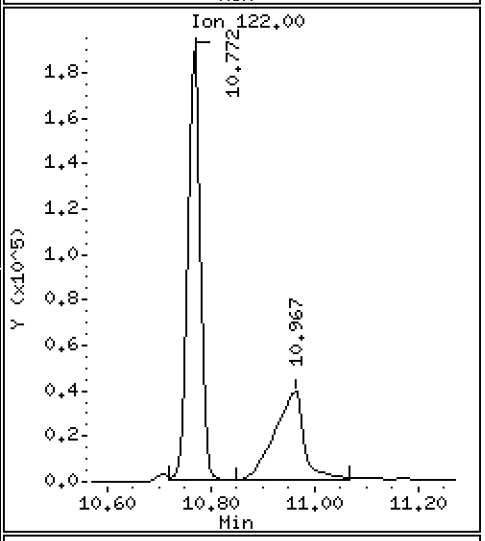
24 Benzoic acid

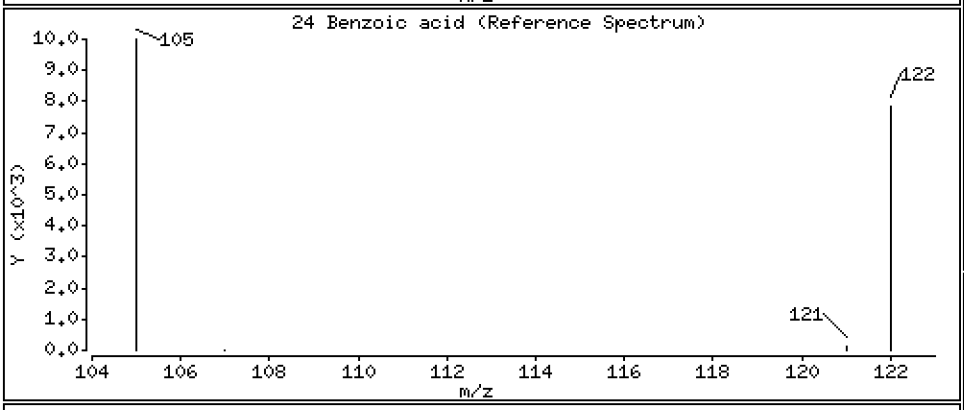
Concentration: 10.79 ug/L

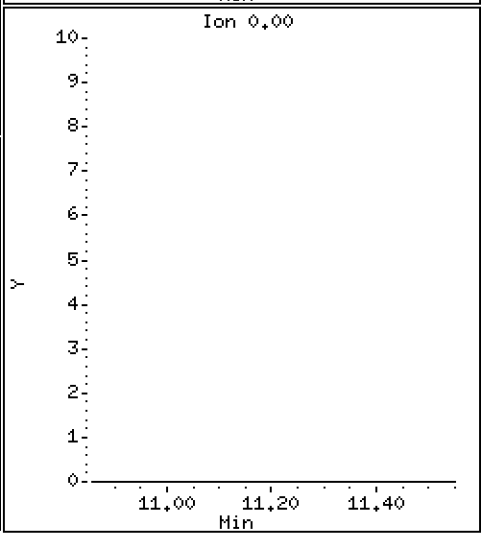


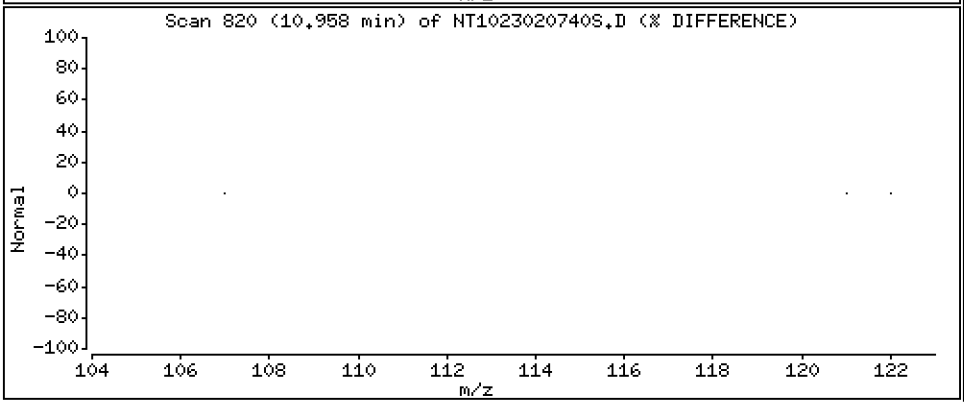












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Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

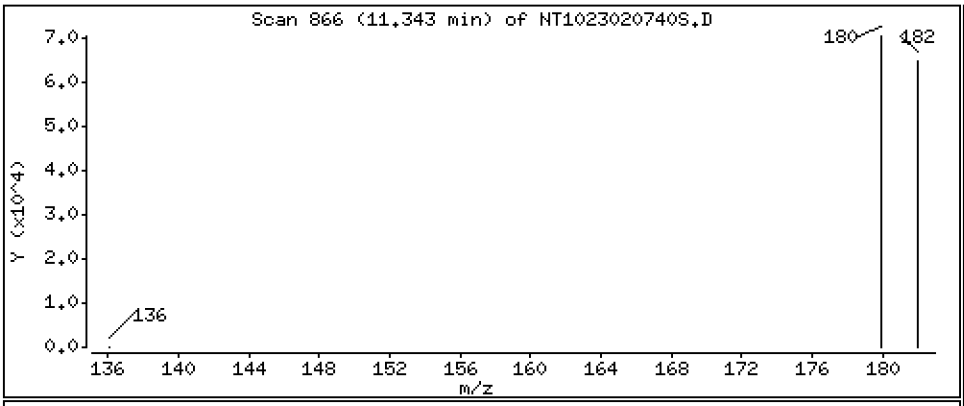
Operator: DSD

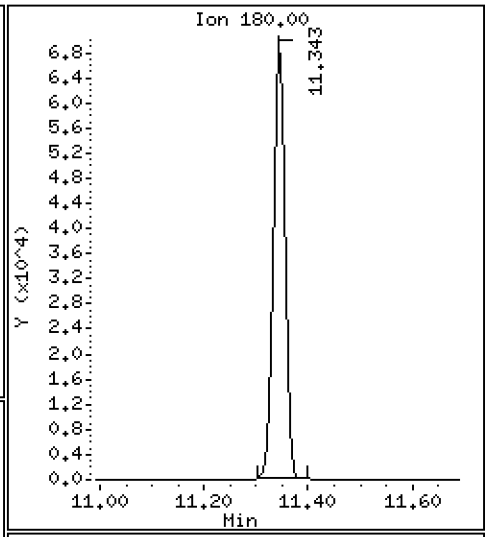
Column phase: ZB-5msi

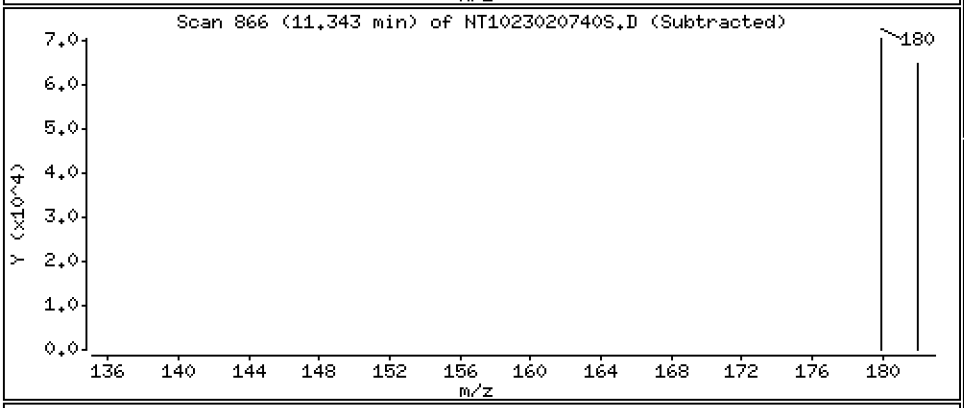
Column diameter: 0.25

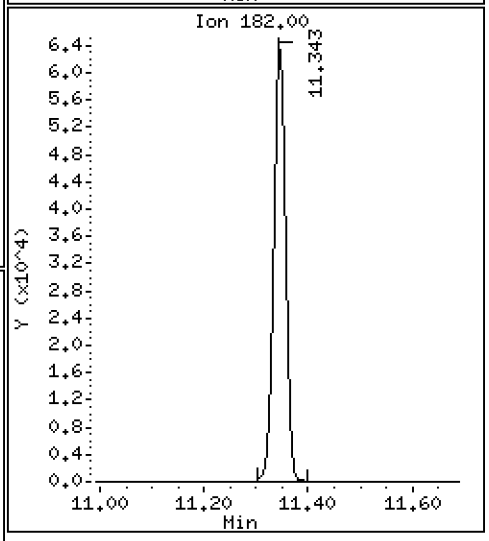
26 1,2,4-Trichlorobenzene

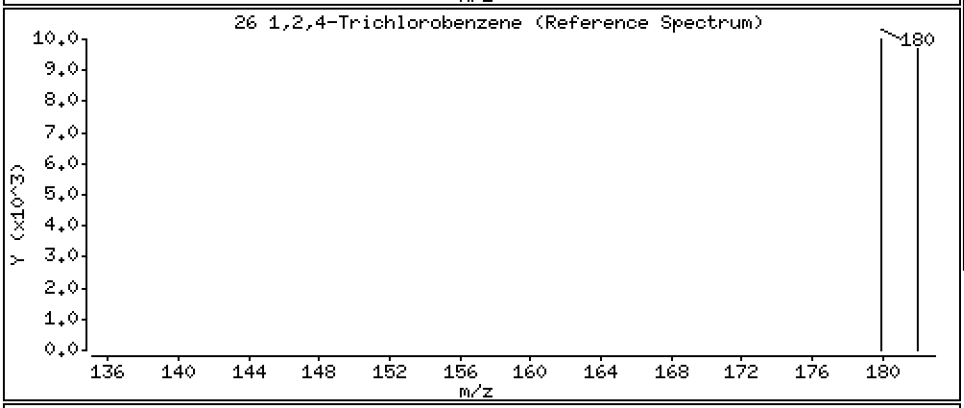
Concentration: 3.183 ug/L

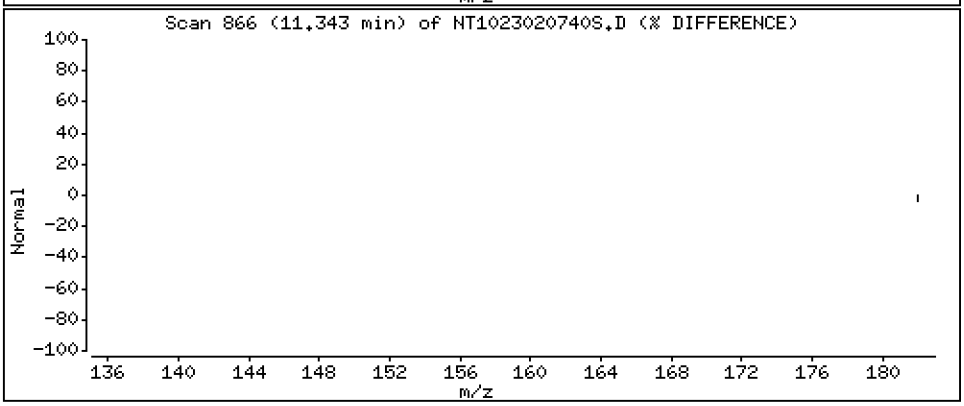












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207405.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

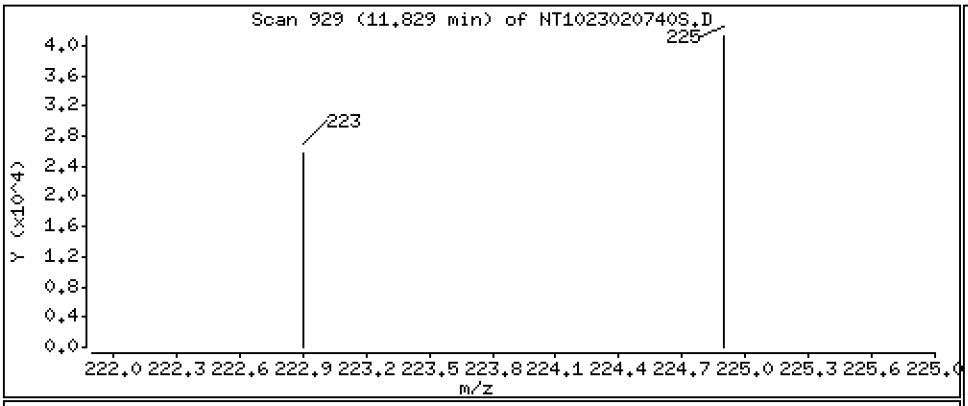
Operator: DSD

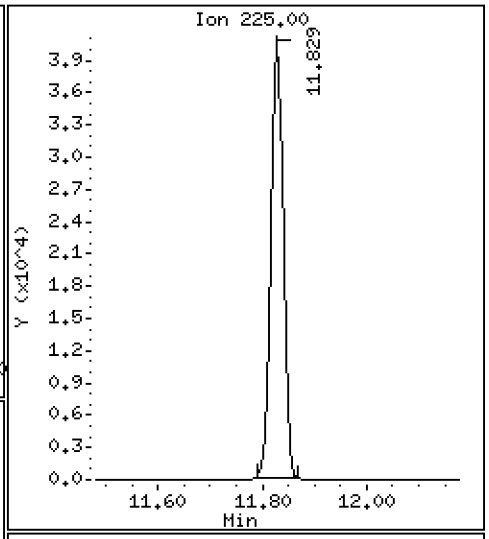
Column phase: ZB-5msi

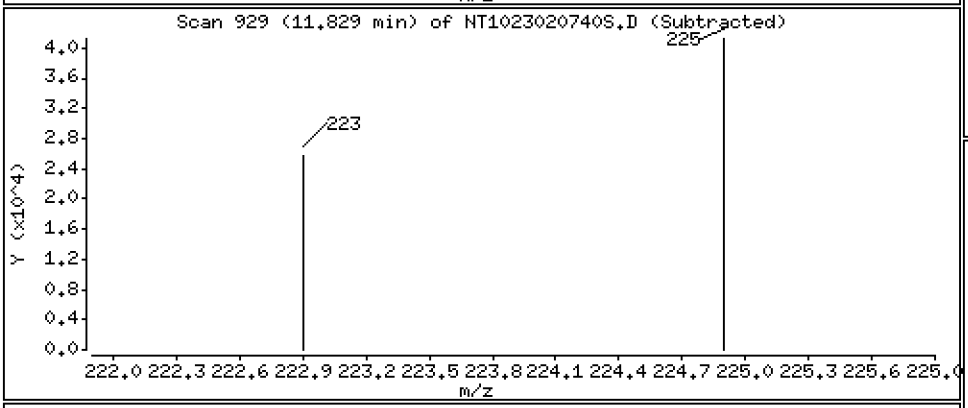
Column diameter: 0.25

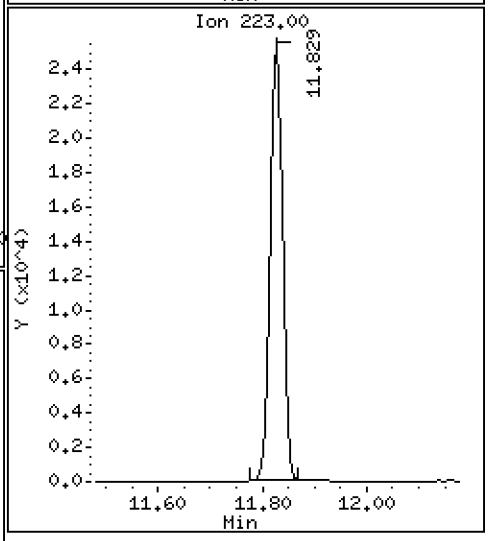
30 Hexachlorobutadiene

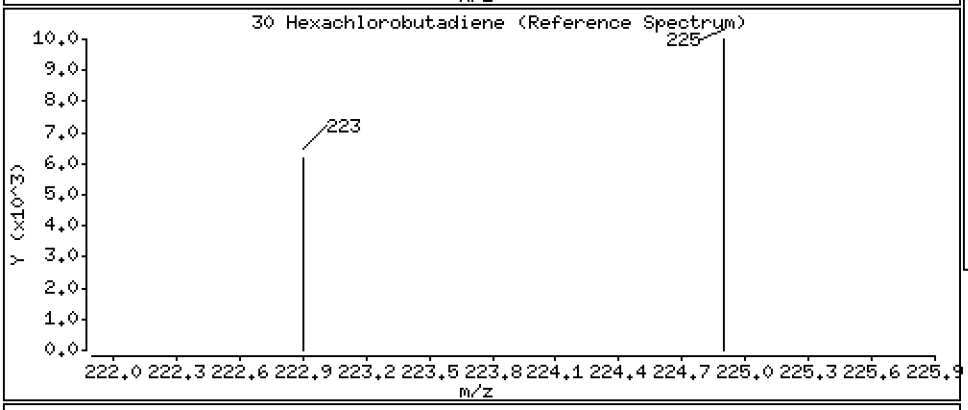
Concentration: 3.240 ug/L

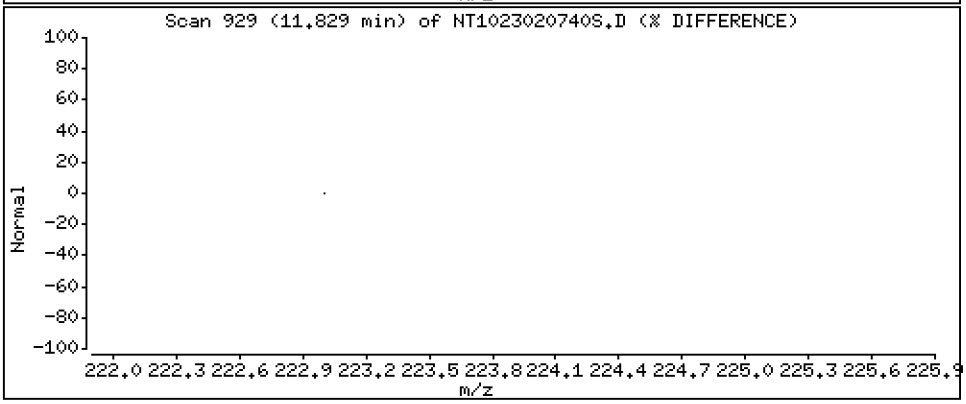












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020740S.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

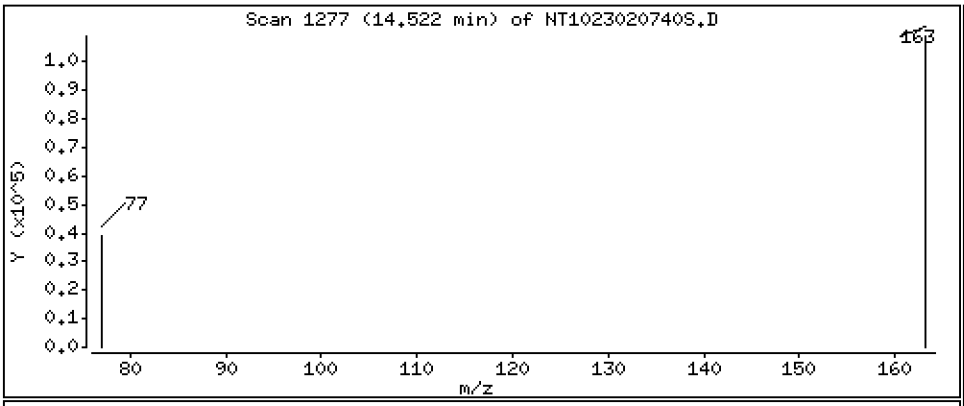
Operator: DSD

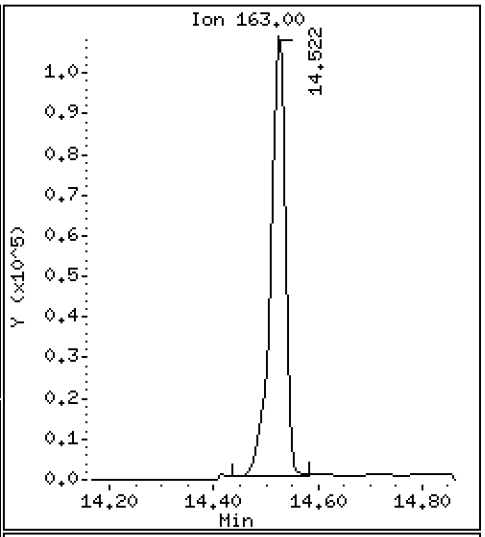
Column phase: ZB-5msi

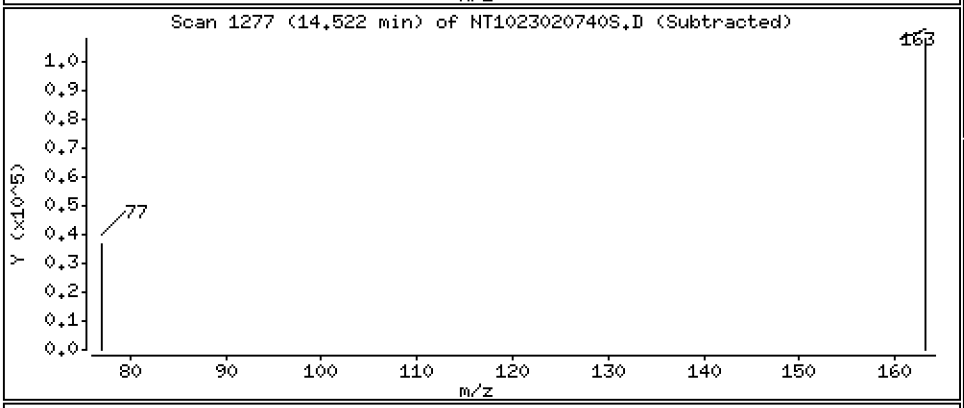
Column diameter: 0.25

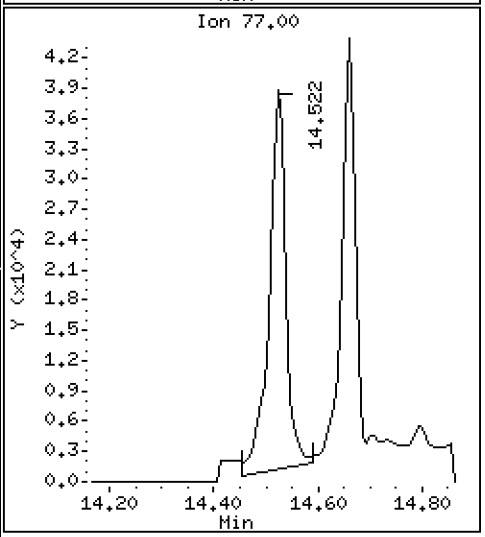
39 Dimethylphthalate

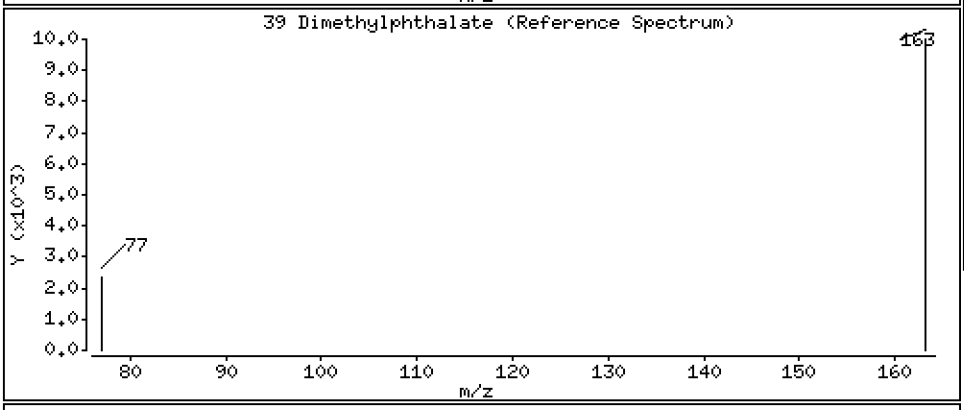
Concentration: 4.222 ug/L

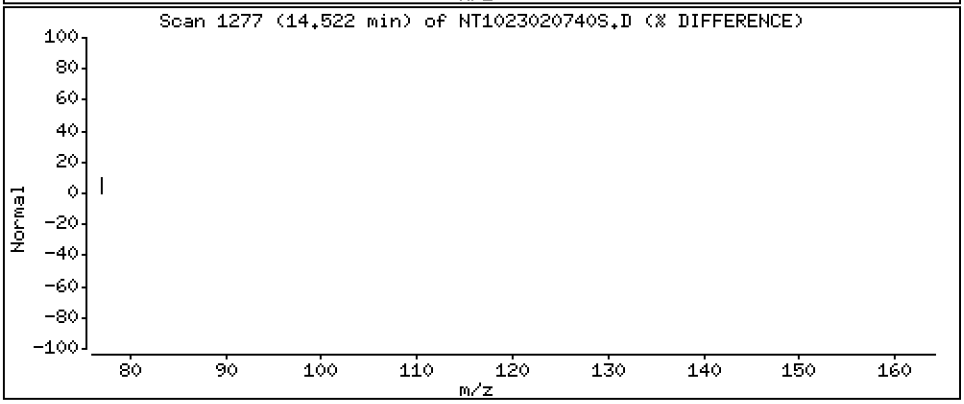












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Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

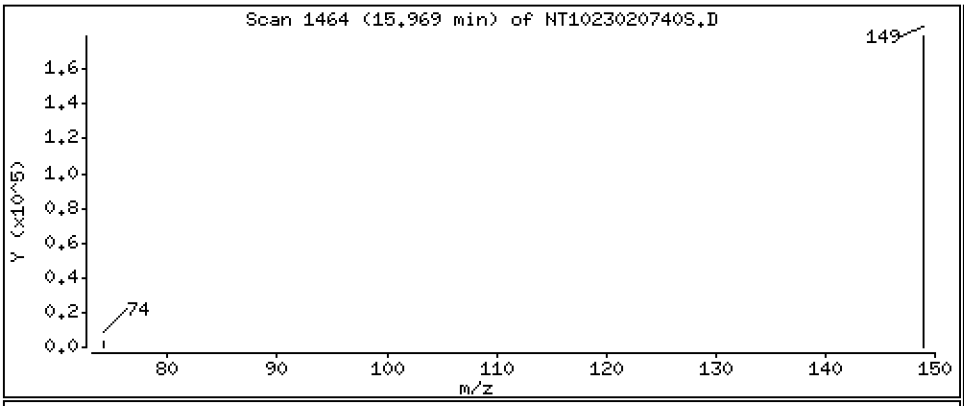
Operator: DSD

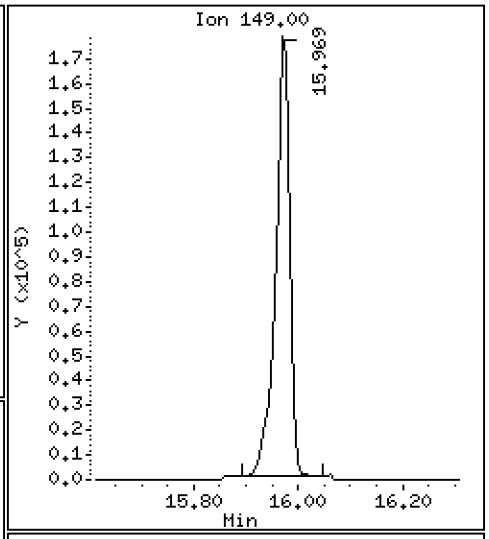
Column phase: ZB-5msi

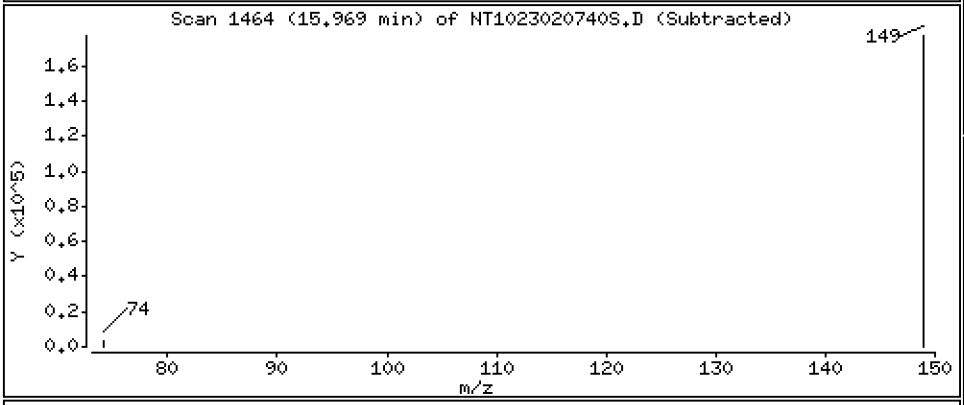
Column diameter: 0.25

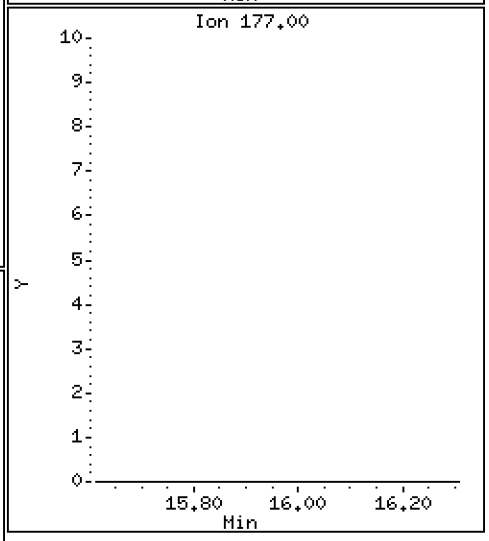
50 Diethylphthalate

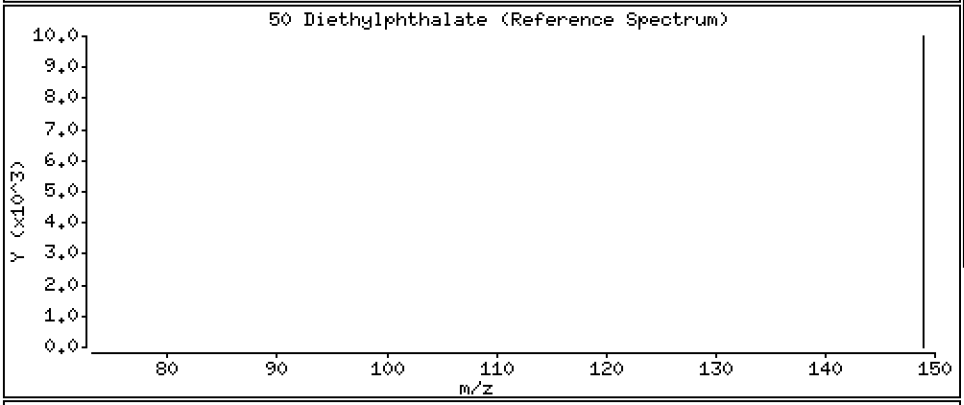
Concentration: 4.550 ug/L

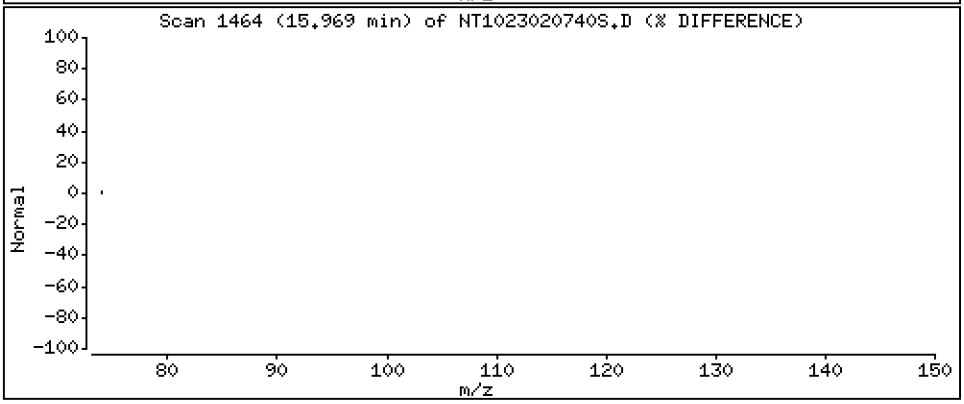












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Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

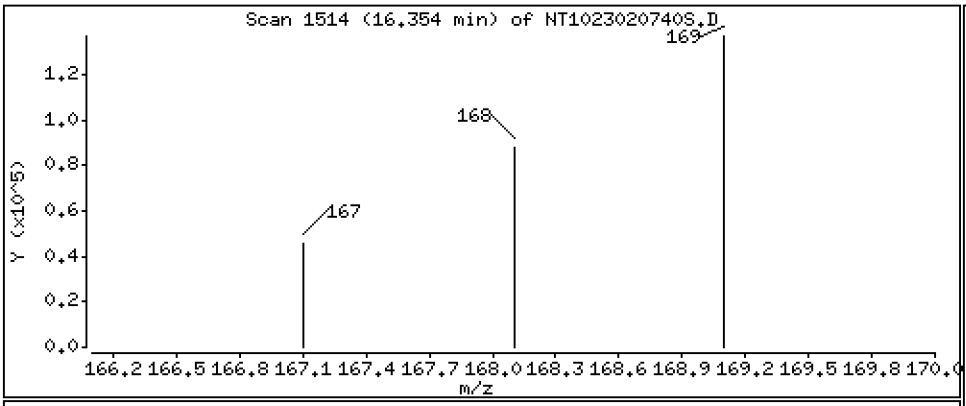
Operator: DSD

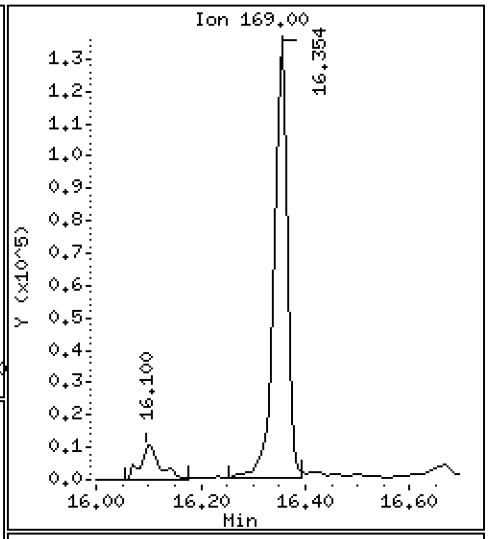
Column phase: ZB-5msi

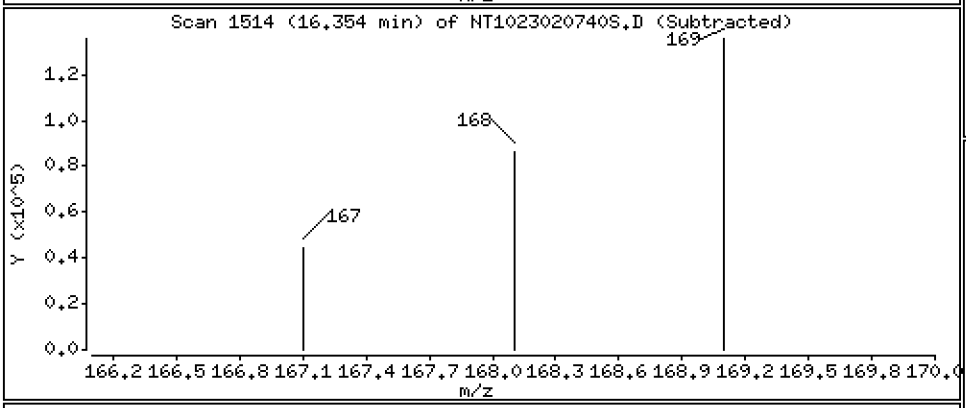
Column diameter: 0.25

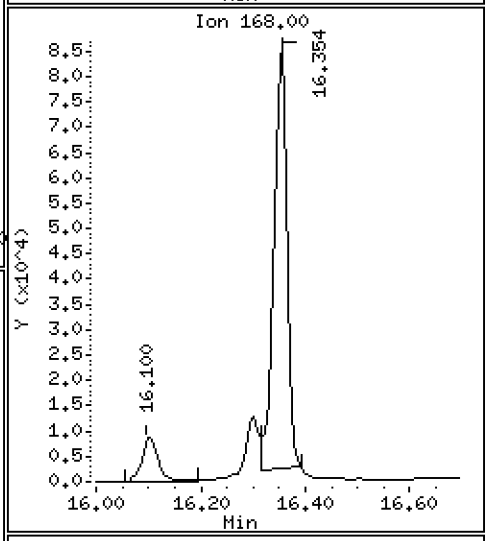
54 N-Nitrosodiphenylamine

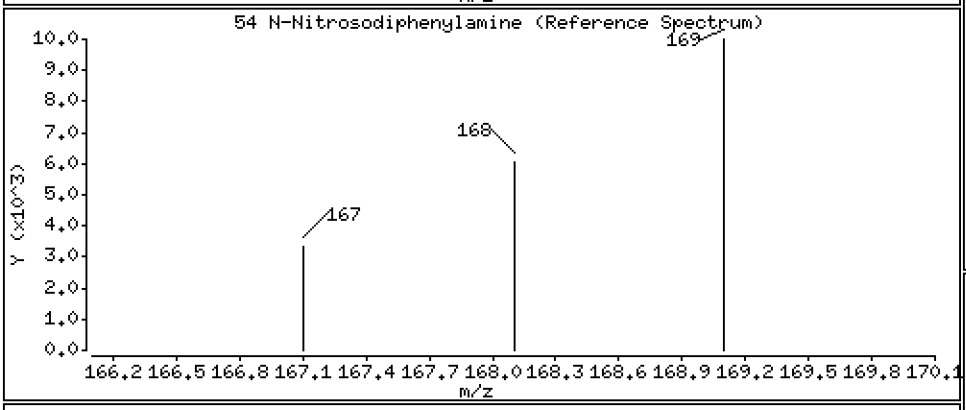
Concentration: 3.691 ug/L

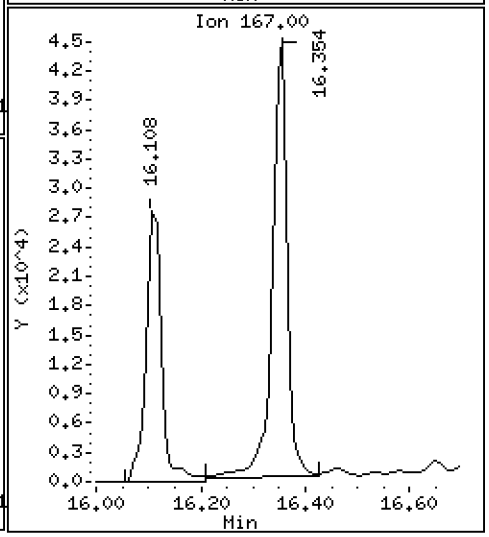


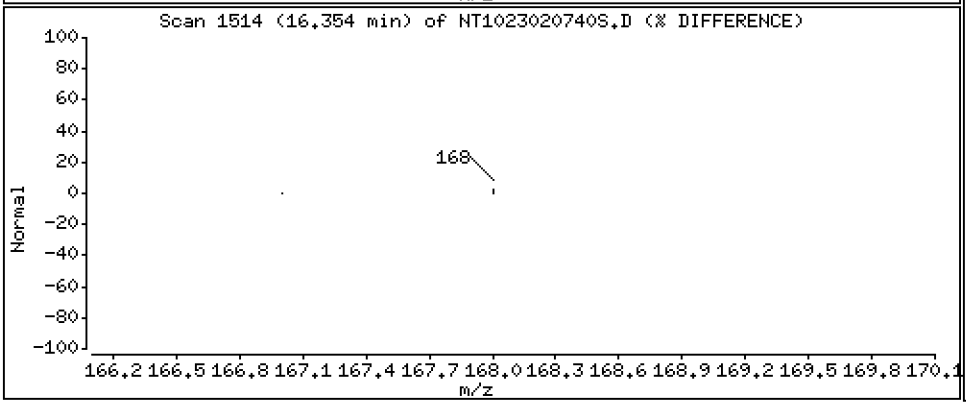












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020740S.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

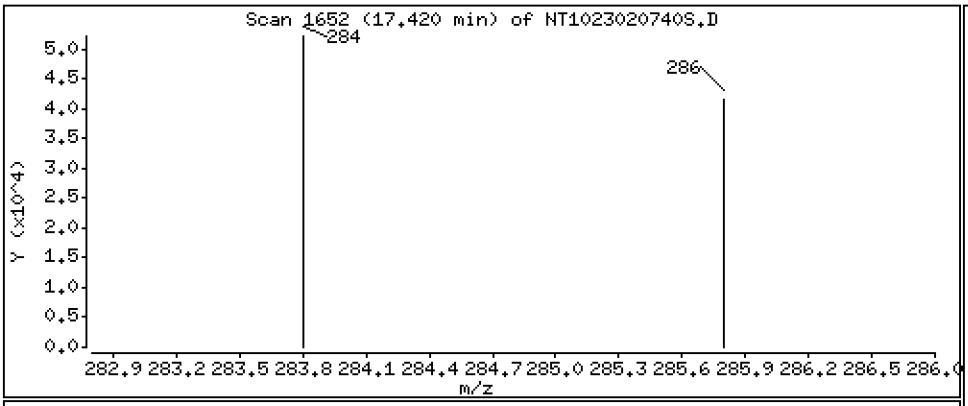
Operator: DSD

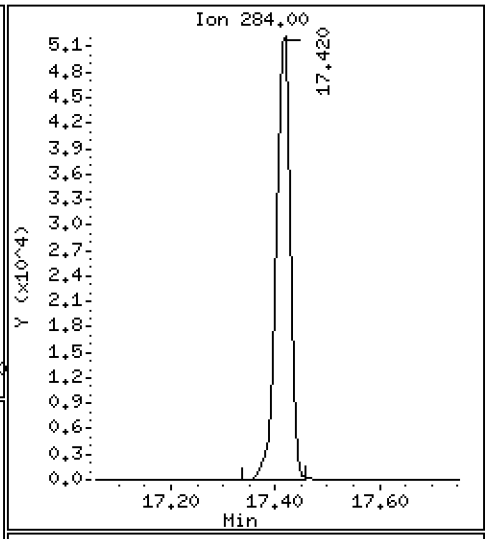
Column phase: ZB-5msi

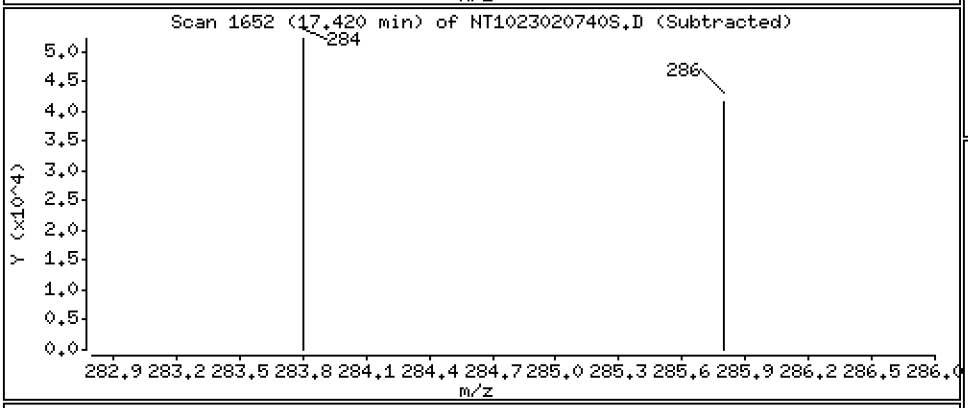
Column diameter: 0.25

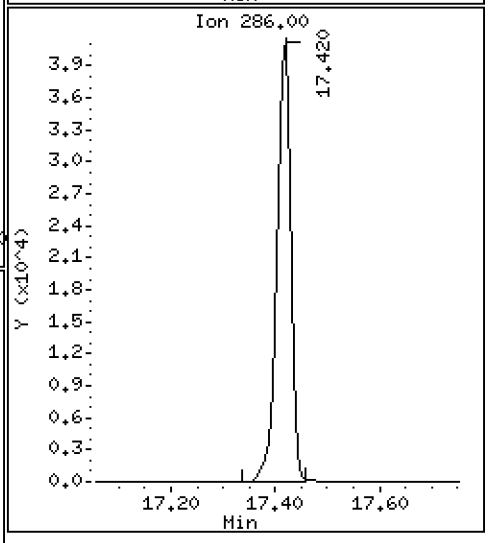
57 Hexachlorobenzene

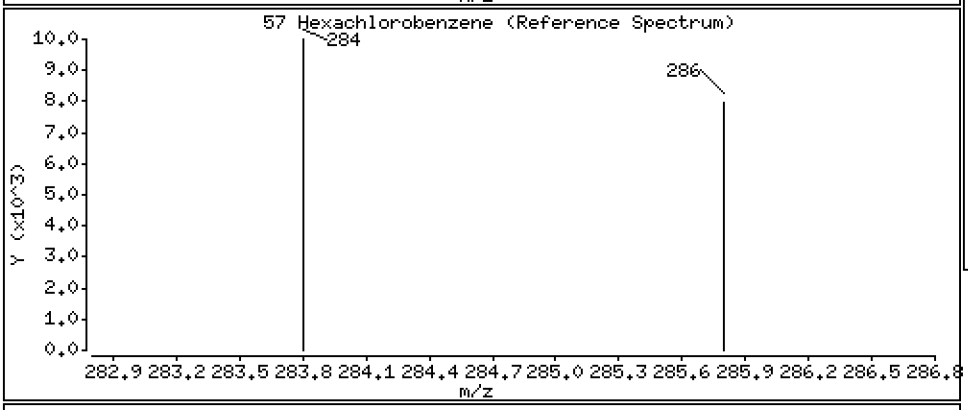
Concentration: 3.535 ug/L

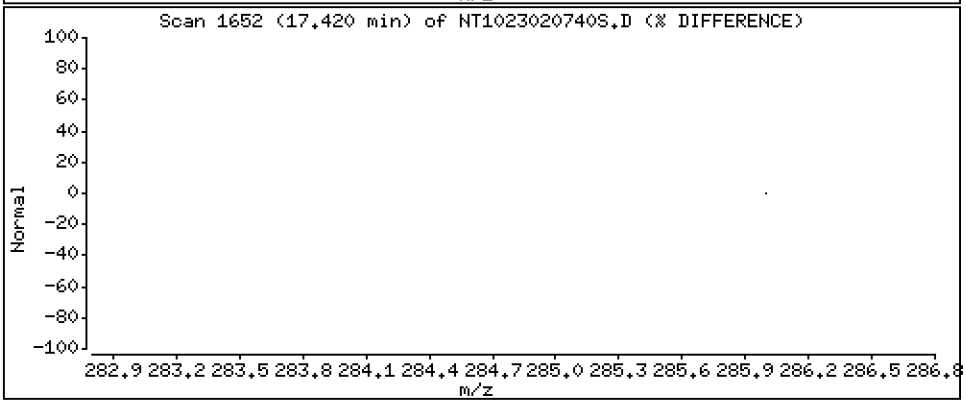












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020740S.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

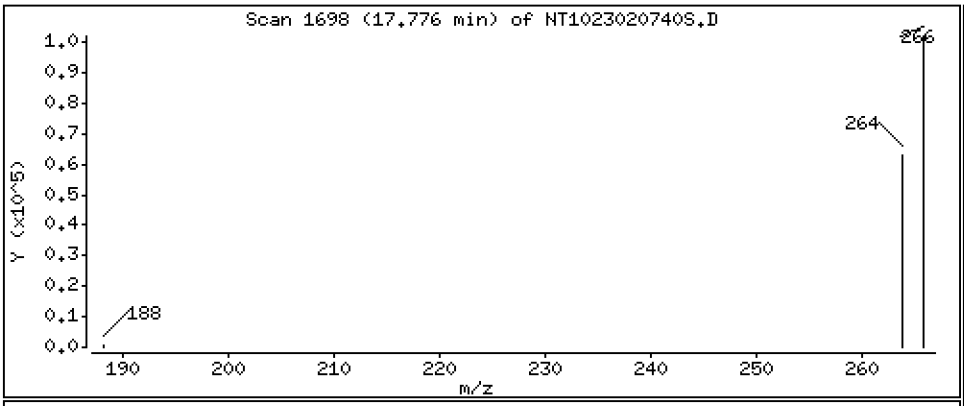
Operator: DSD

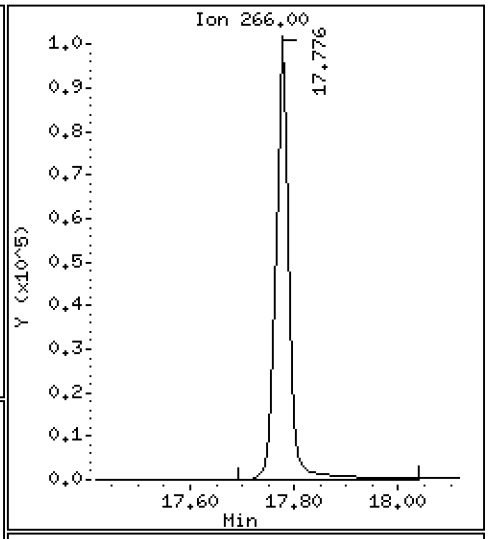
Column phase: ZB-5msi

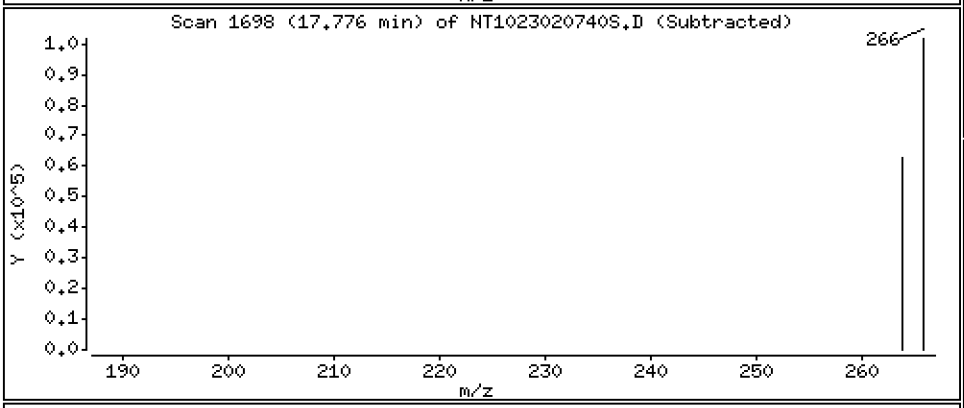
Column diameter: 0.25

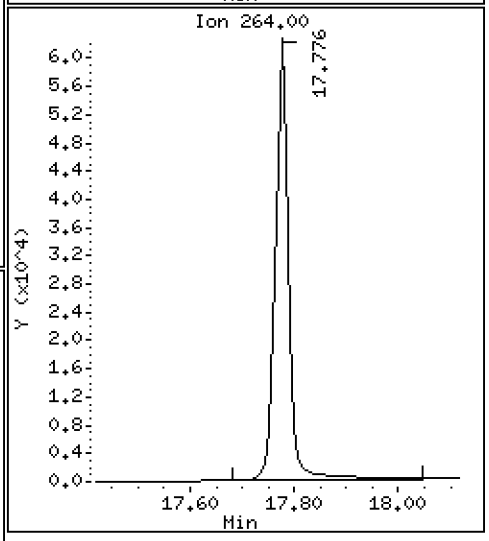
58 Pentachlorophenol

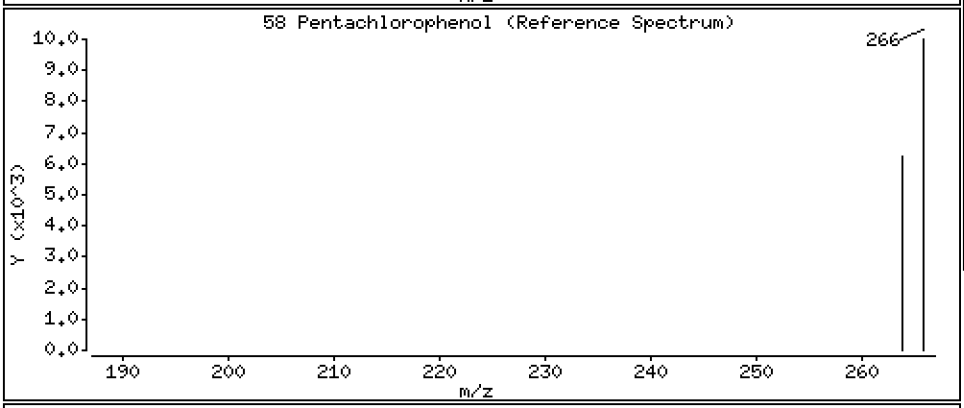
Concentration: 15.75 ug/L

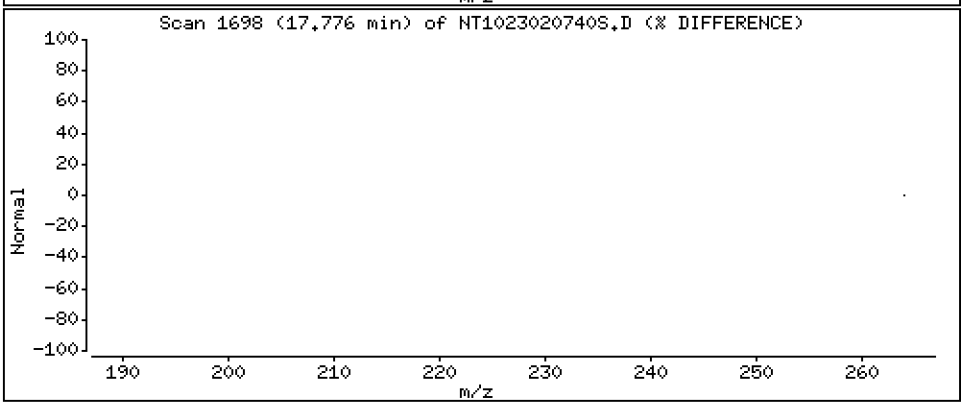












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Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

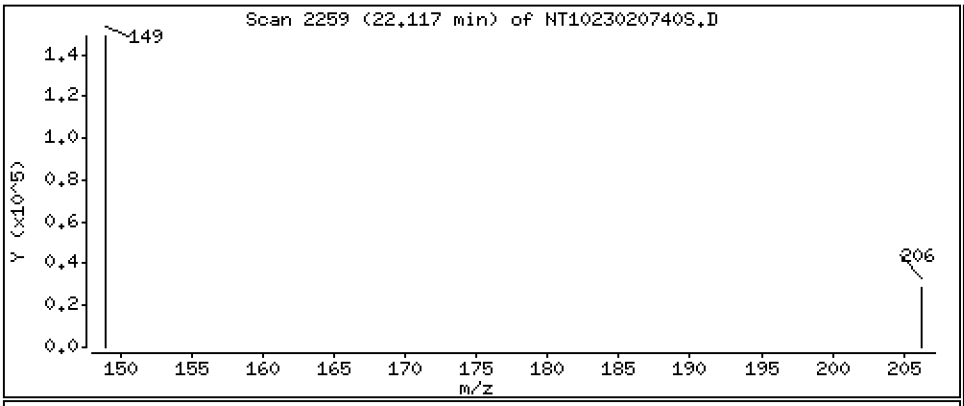
Operator: DSD

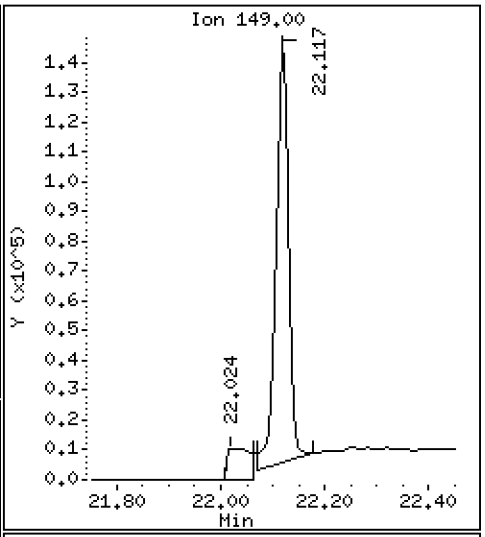
Column phase: ZB-5msi

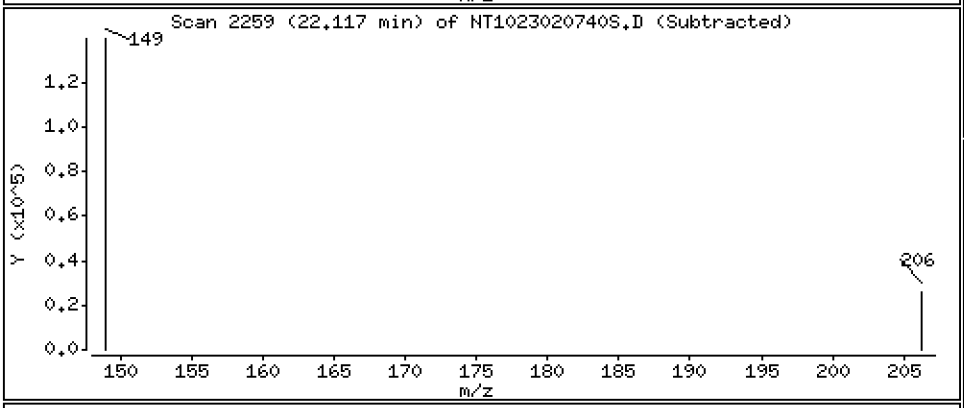
Column diameter: 0.25

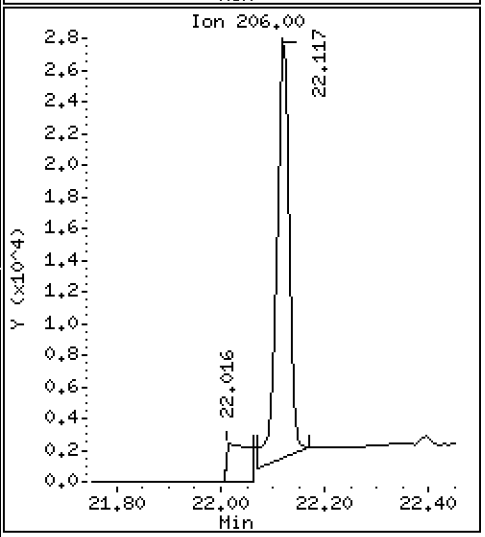
67 Butylbenzylphthalate

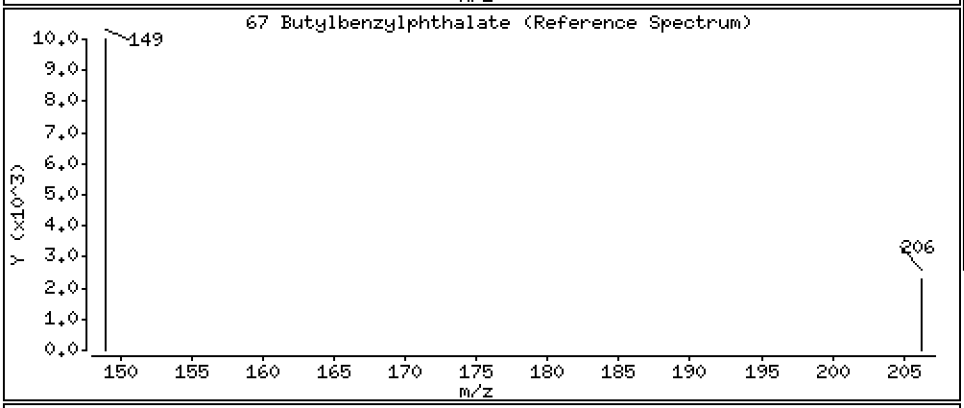
Concentration: 5.921 ug/L

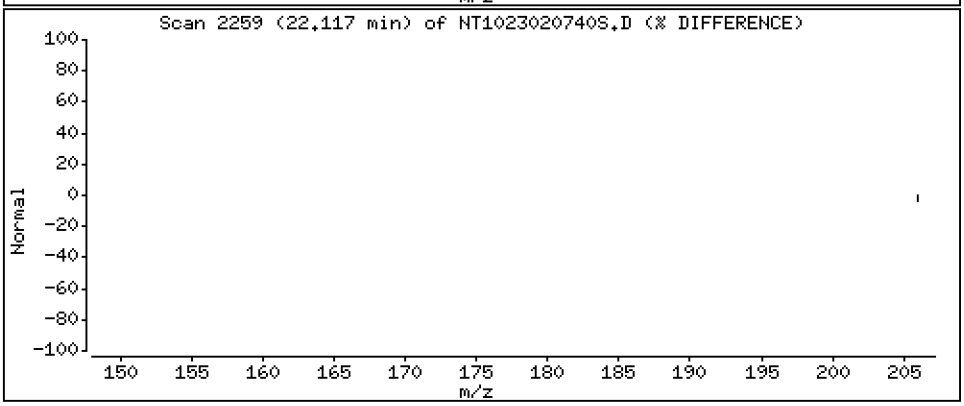












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020740S.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

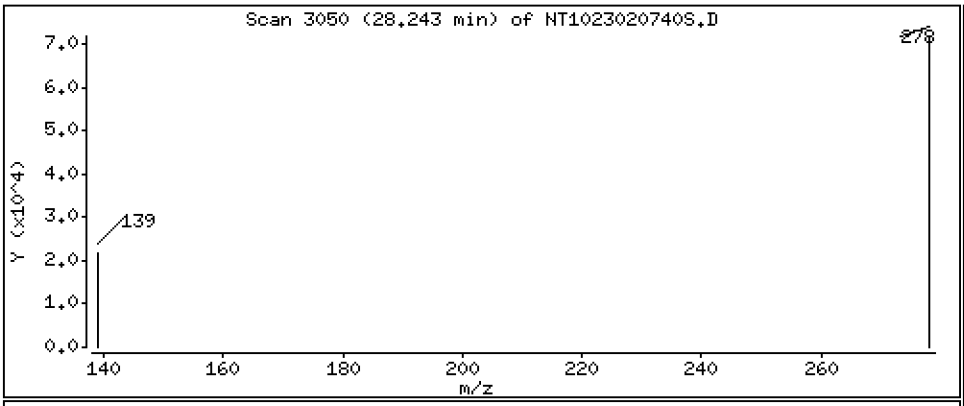
Operator: DSD

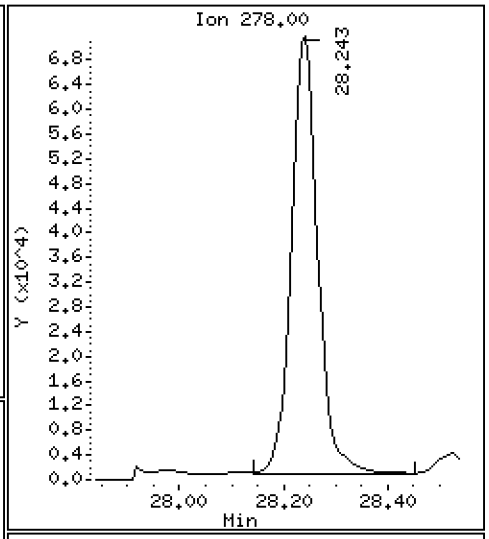
Column phase: ZB-5msi

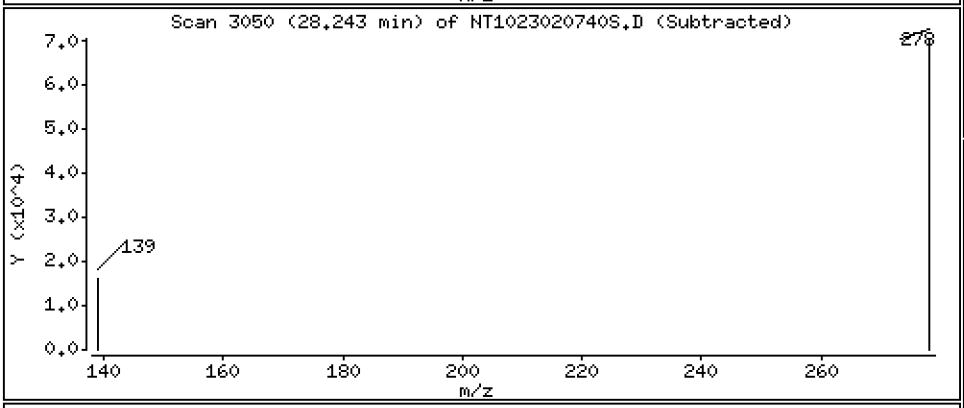
Column diameter: 0.25

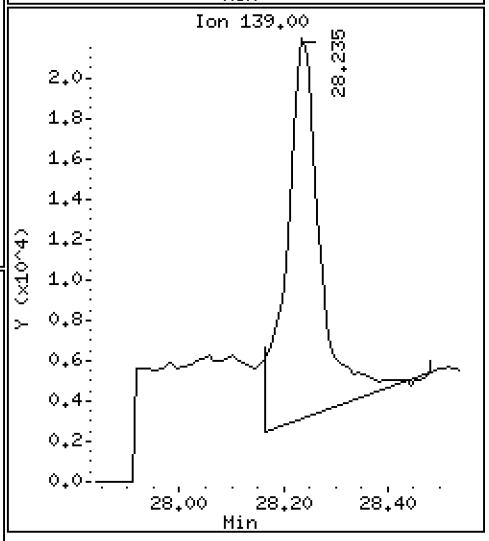
79 Dibenzo(a,h)anthracene

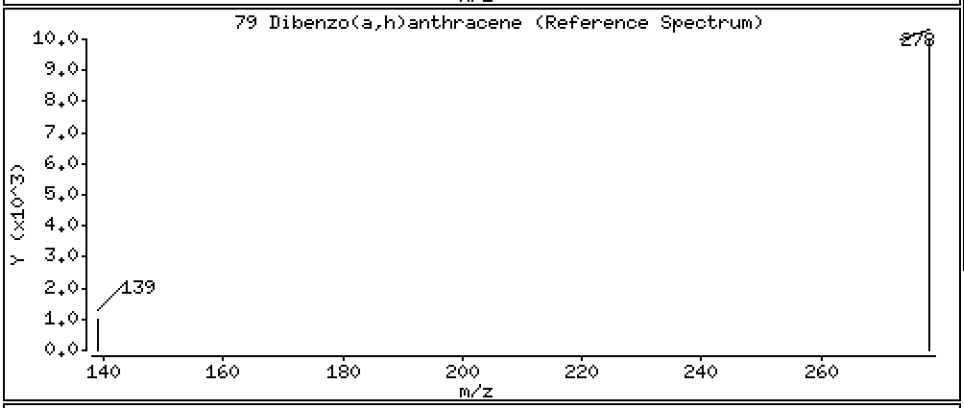
Concentration: 3.471 ug/L

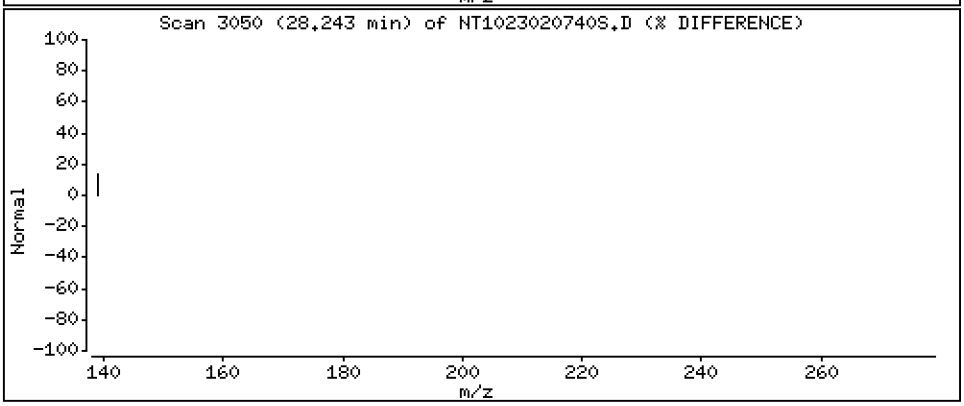












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207405.D

Date : 08-FEB-2023 12:29

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MS2

Volume Injected (uL): 1.0

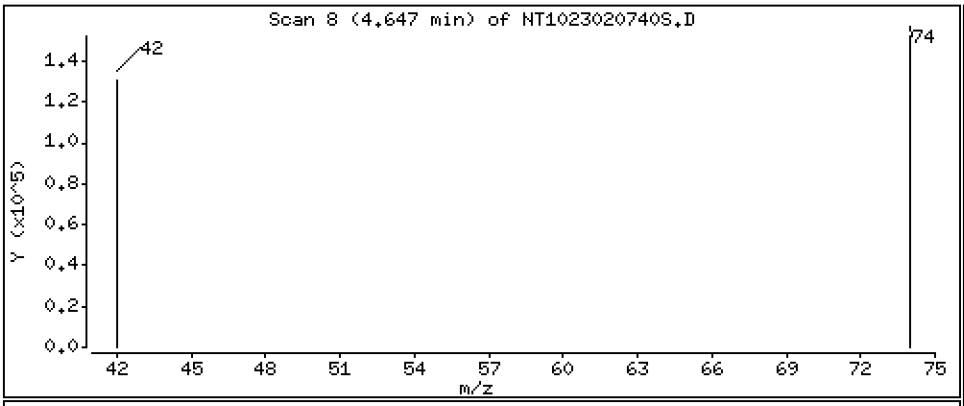
Operator: DSD

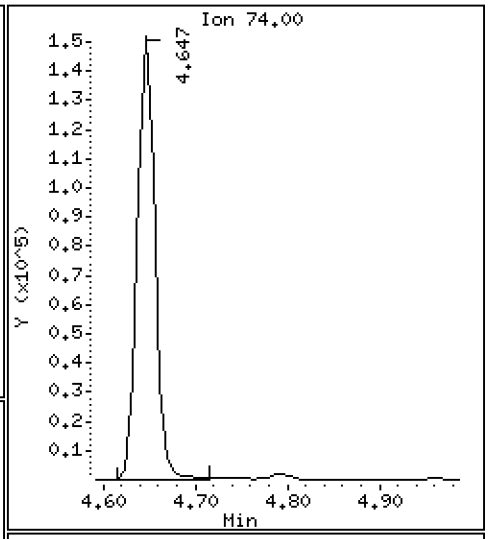
Column phase: ZB-5msi

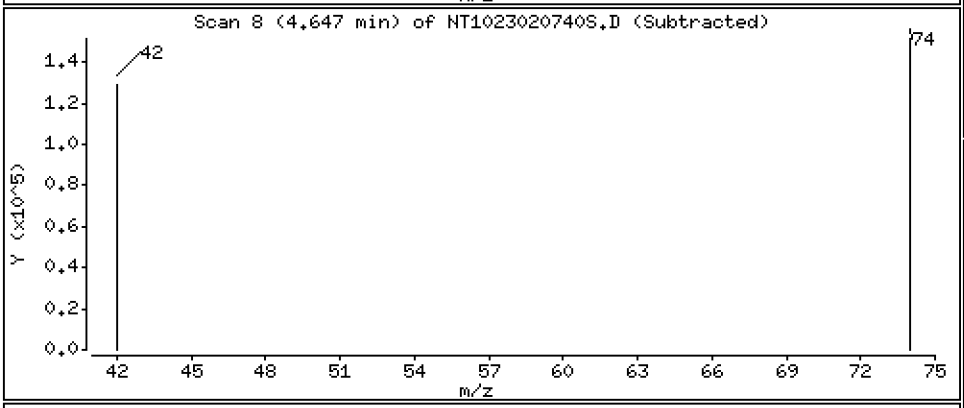
Column diameter: 0.25

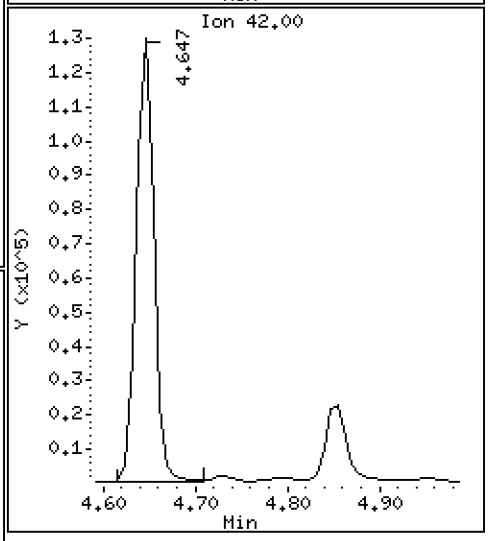
90 N-Nitrosodimethylamine

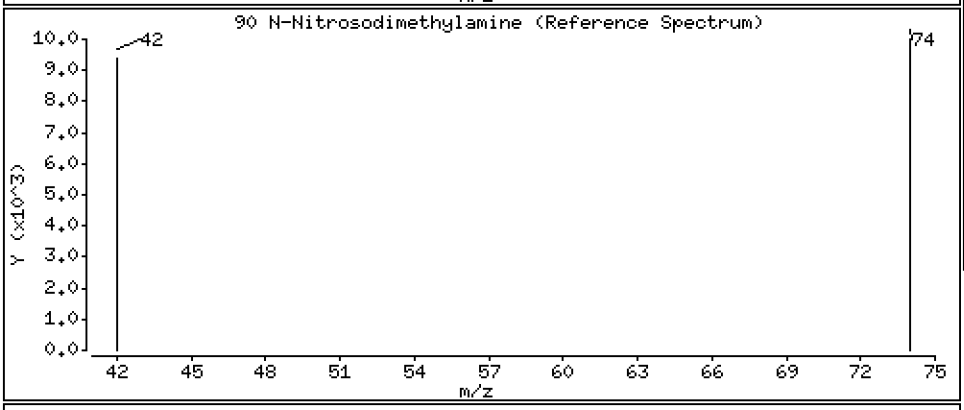
Concentration: 9.013 ug/L

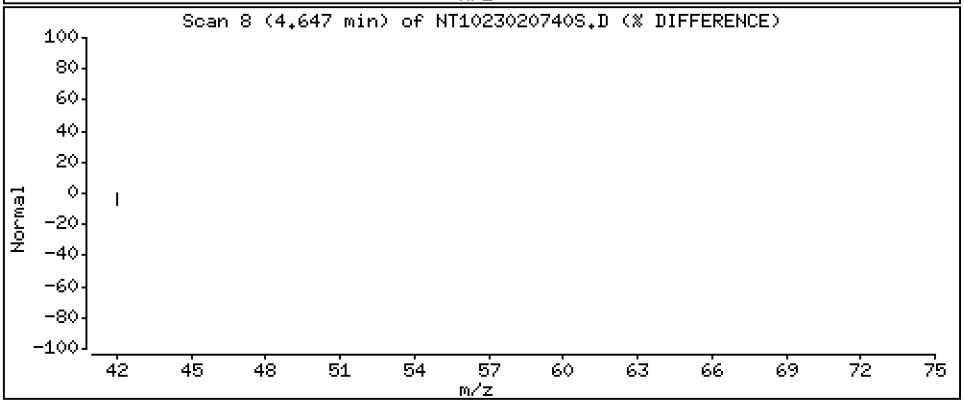












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020740S.D
Lab Smp Id: BLA0064-MS2
Inj Date : 08-FEB-2023 12:29 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLA0064-MS2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
$	1 2-Fluorophenol	112	6.785	6.777	(0.756)	166564	4.80568	4.806(R)
	3 Phenol	94	8.369	8.369	(0.933)	177246	3.39142	3.391
	7 1,3-Dichlorobenzene	146	8.910	8.902	(0.993)	127754	2.71438	2.714
*	8 1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	113976	4.00000	
	9 1,4-Dichlorobenzene	146	8.995	8.996	(1.003)	130305	2.83173	2.832
	11 Benzyl alcohol	79	9.236	9.236	(1.029)	117030	4.59019	4.590
	12 1,2-Dichlorobenzene	146	9.353	9.353	(1.042)	127691	2.84313	2.843
	13 2-Methylphenol	108	9.469	9.461	(1.055)	115857	3.24715	3.247
	15 4-Methylphenol	108	9.741	9.733	(1.086)	171272	4.70642	4.706
	16 N-Nitroso-di-n-propylamine	70	9.787	9.780	(1.091)	98937	3.80844	3.808
	22 2,4-Dimethylphenol	107	10.763	10.763	(0.942)	356438	9.37187	9.372
	24 Benzoic acid	105	10.958	10.924	(0.959)	202060	10.7921	10.79(H)
	26 1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	113487	3.18344	3.183
*	27 Naphthalene-d8	136	11.427	11.427	(1.000)	432968	4.00000	
	30 Hexachlorobutadiene	225	11.829	11.829	(1.035)	63063	3.24002	3.240
	39 Dimethylphthalate	163	14.522	14.514	(0.967)	203959	4.22210	4.222
*	42 Acenaphthene-d10	162	15.017	15.009	(1.000)	207269	4.00000	
	50 Diethylphthalate	149	15.968	15.960	(1.063)	331013	4.54987	4.550
	54 N-Nitrosodiphenylamine	169	16.354	16.346	(0.907)	231642	3.69141	3.691
	57 Hexachlorobenzene	284	17.419	17.404	(0.966)	94394	3.53457	3.535

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.775	17.768	(0.986)	173992	15.7487	15.75
*	59 Phenanthrene-d10	188	18.031	18.023	(1.000)	379712	4.00000	
$	66 Terphenyl-d14	244	21.210	21.164	(0.918)	260533	4.47546	4.475(R)
	67 Butylbenzylphthalate	149	22.116	22.101	(0.957)	232983	5.92088	5.921
*	69 Chrysene-d12	240	23.107	23.069	(1.000)	262267	4.00000	
*	77 Perylene-d12	264	25.678	25.631	(1.000)	260261	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.242	28.188	(1.100)	253192	3.47123	3.471
	90 N-Nitrosodimethylamine	74	4.646	4.638	(0.518)	204718	9.01326	9.013

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020740S.D
Lab Smp Id: BLA0064-MS2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	113976	-7.78
27 Naphthalene-d8	454738	227369	909476	432968	-4.79
42 Acenaphthene-d10	223117	111559	446234	207269	-7.10
59 Phenanthrene-d10	408770	204385	817540	379712	-7.11
69 Chrysene-d12	339328	169664	678656	262267	-22.71
77 Perylene-d12	382671	191336	765342	260261	-31.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	-0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	-0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.02	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.03	0.04
69 Chrysene-d12	23.07	22.57	23.57	23.11	0.17
77 Perylene-d12	25.63	25.13	26.13	25.68	0.18

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020740S.D

Lab ID: BLA0064-MS2
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 12:29

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207415.D

Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

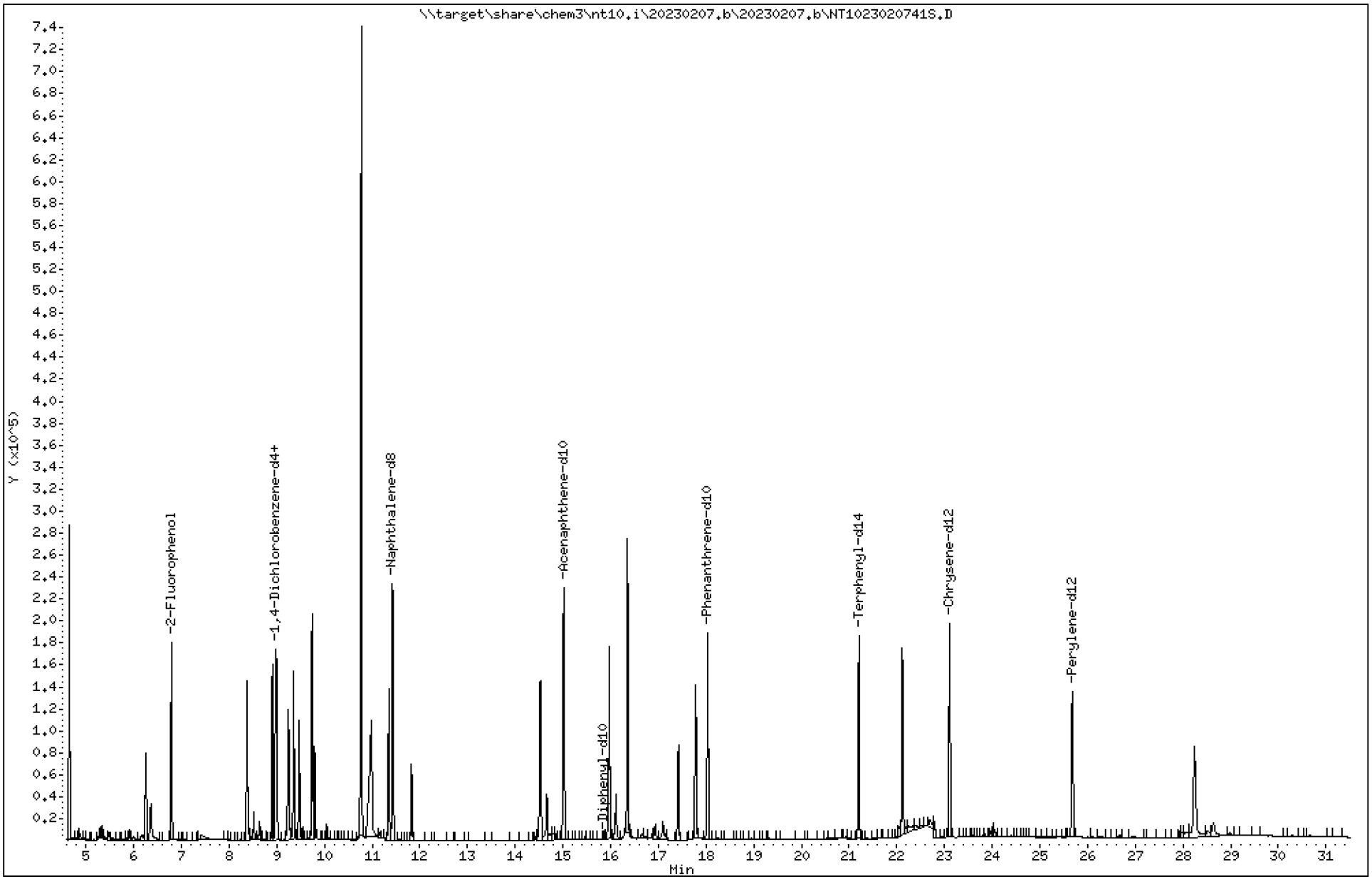
Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

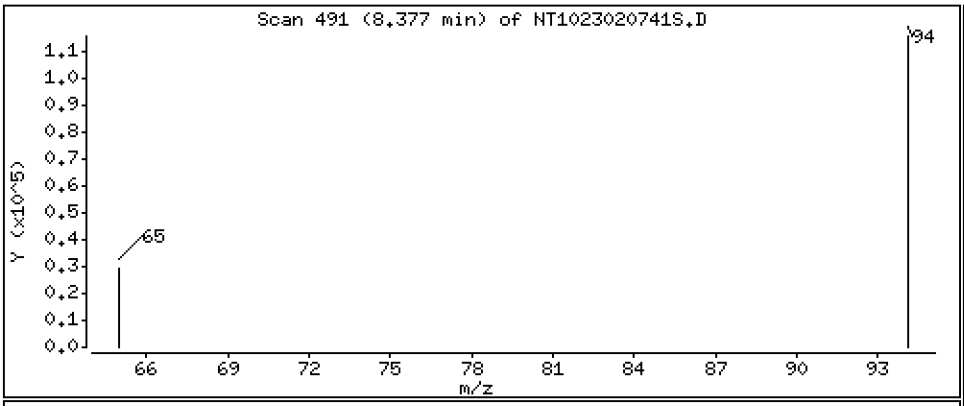
Operator: DSD

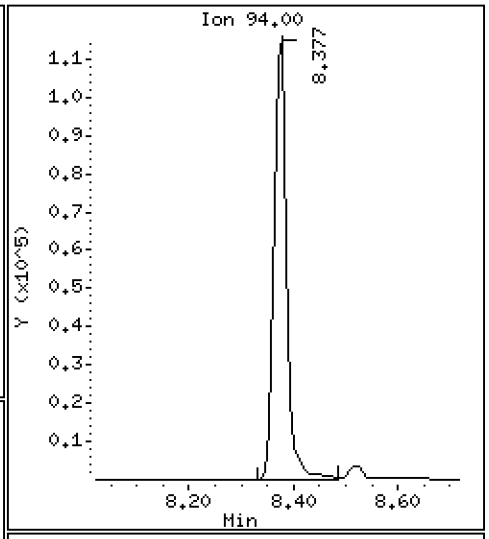
Column phase: ZB-5msi

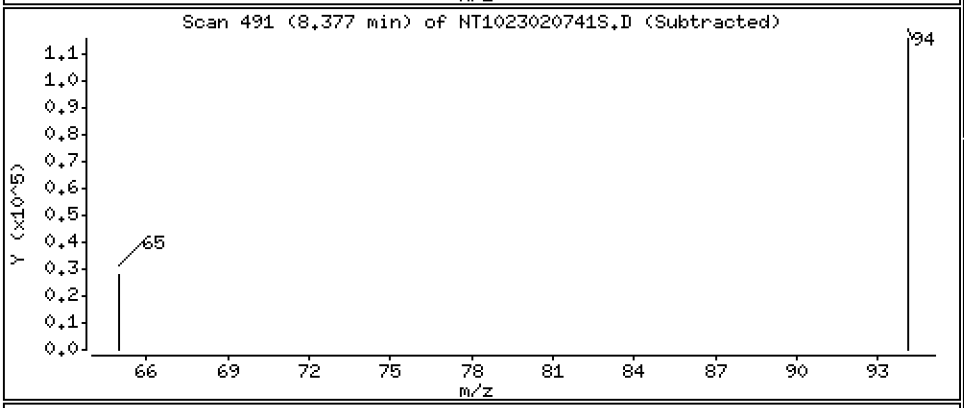
Column diameter: 0.25

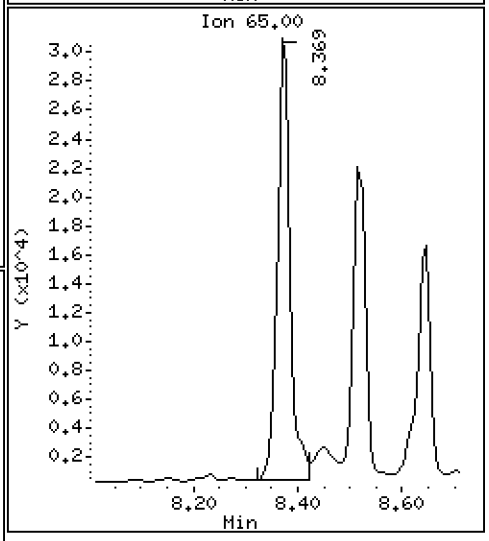
3 Phenol

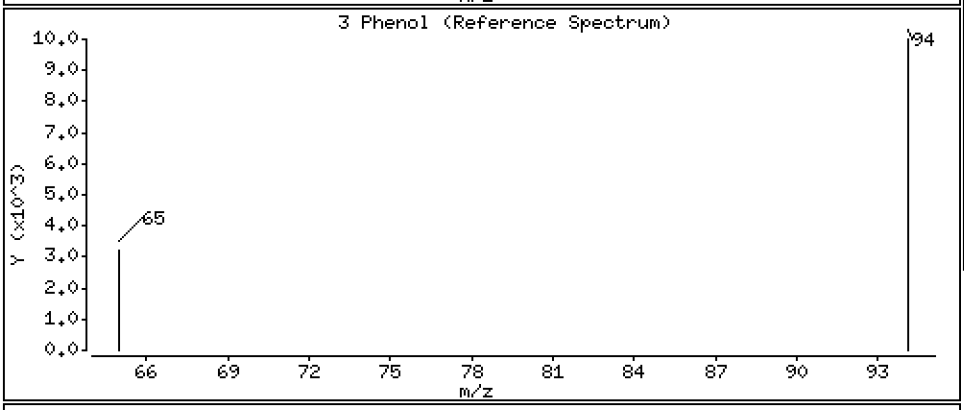
Concentration: 4.017 ug/L

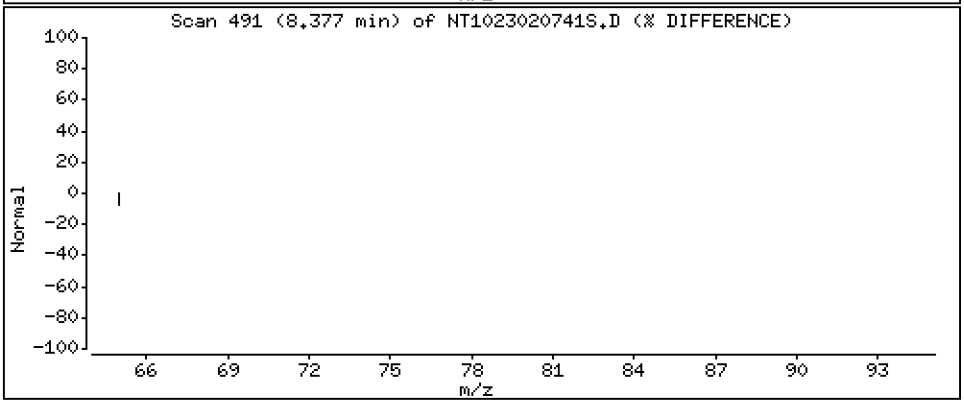












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 41S.D

Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

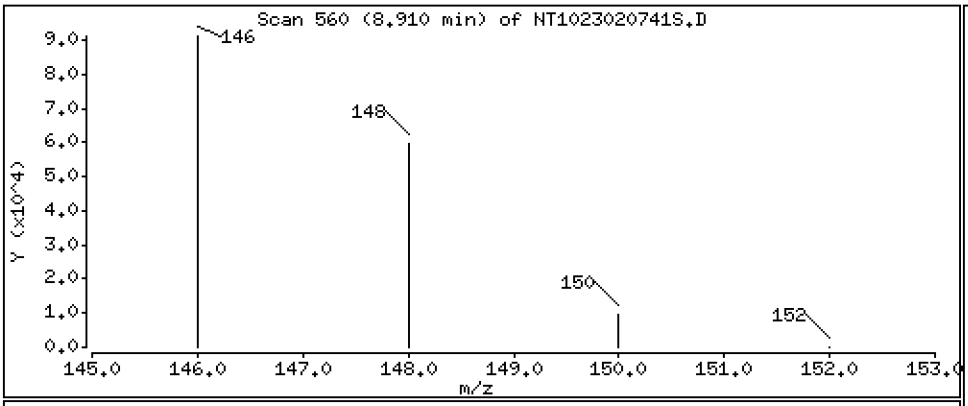
Operator: DSD

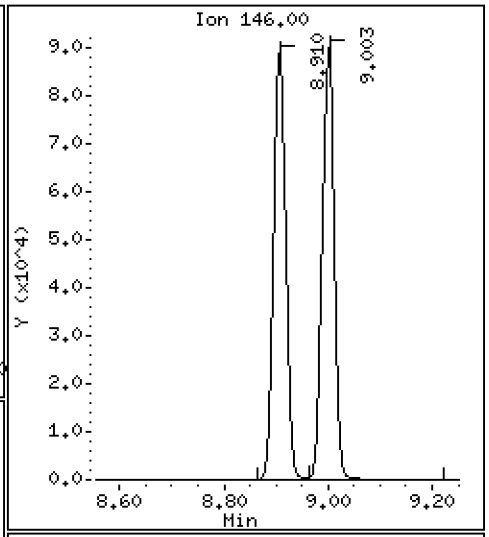
Column phase: ZB-5msi

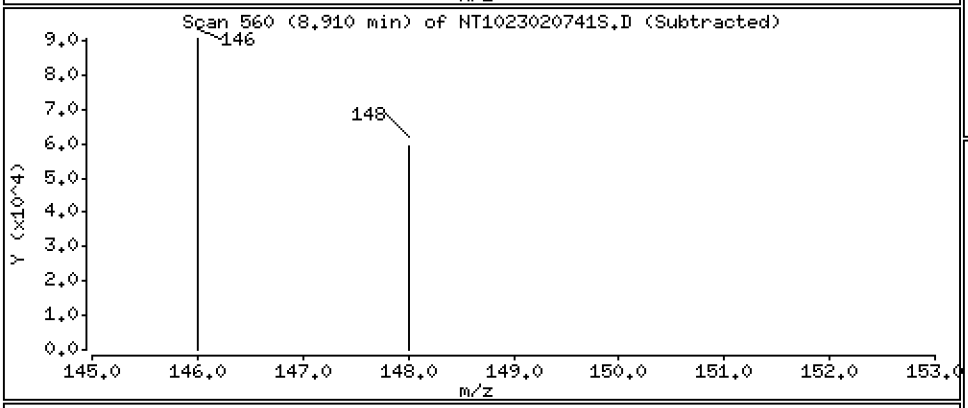
Column diameter: 0.25

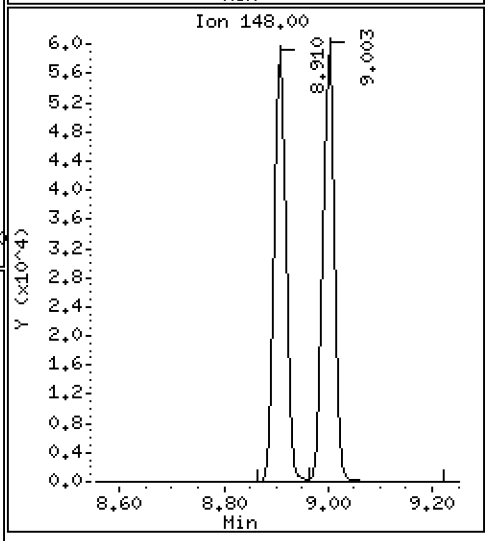
7 1,3-Dichlorobenzene

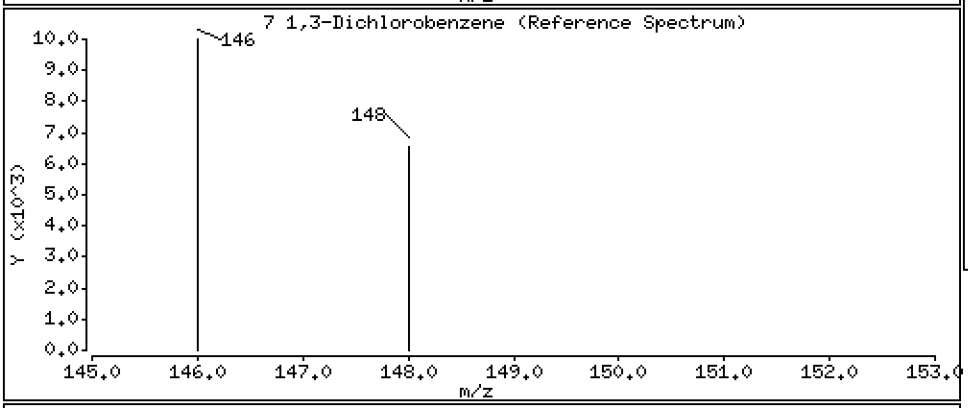
Concentration: 3.297 ug/L

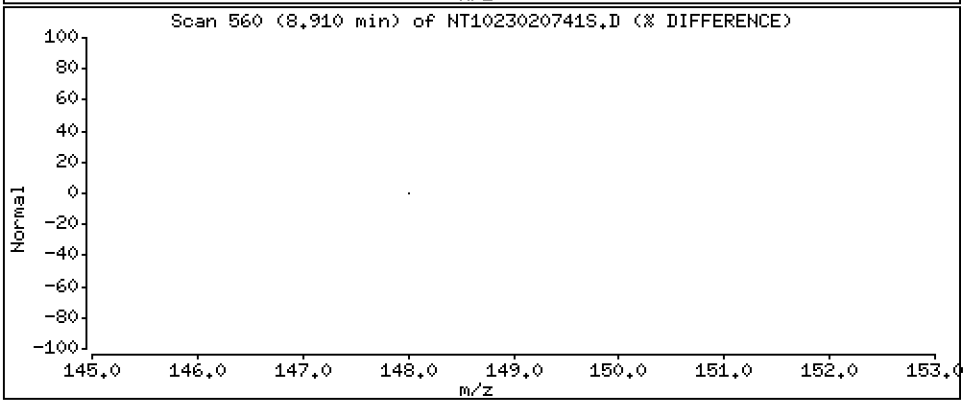












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 41S.D

Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

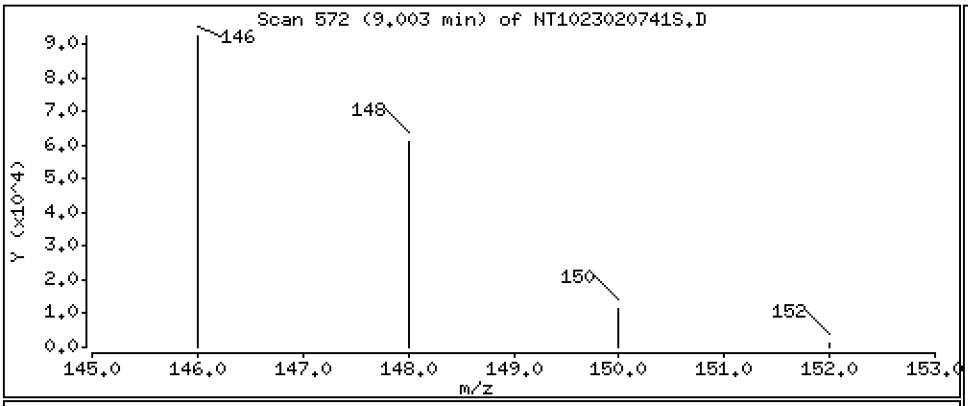
Operator: DSD

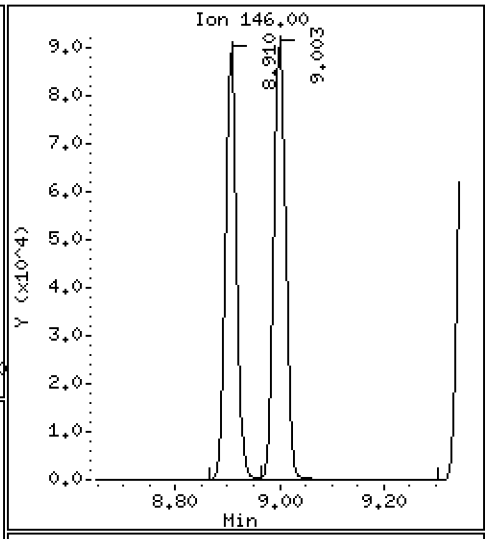
Column phase: ZB-5msi

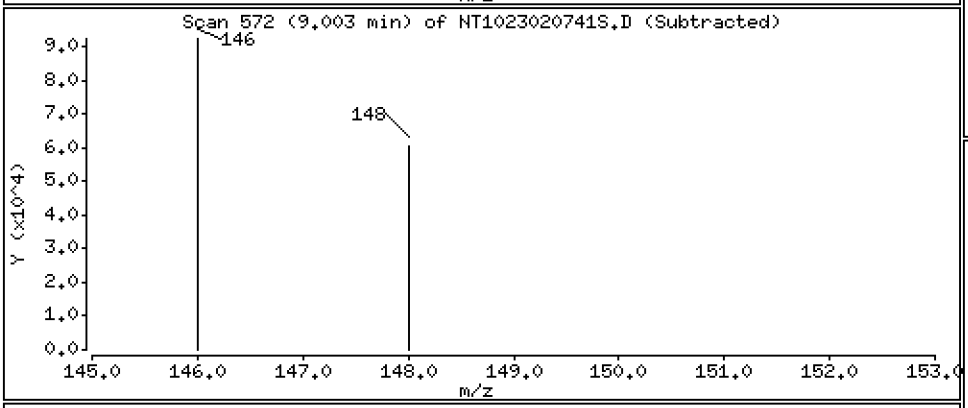
Column diameter: 0.25

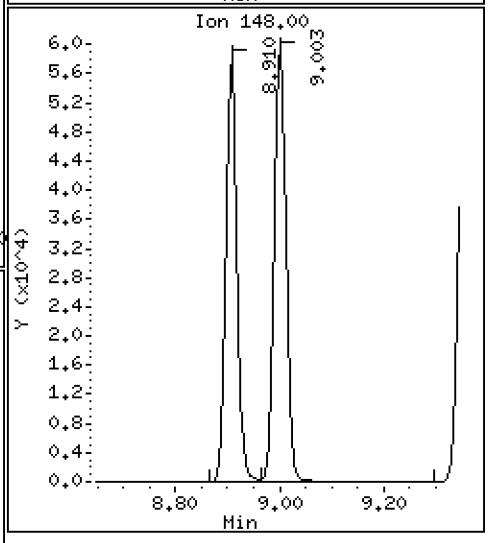
9 1,4-Dichlorobenzene

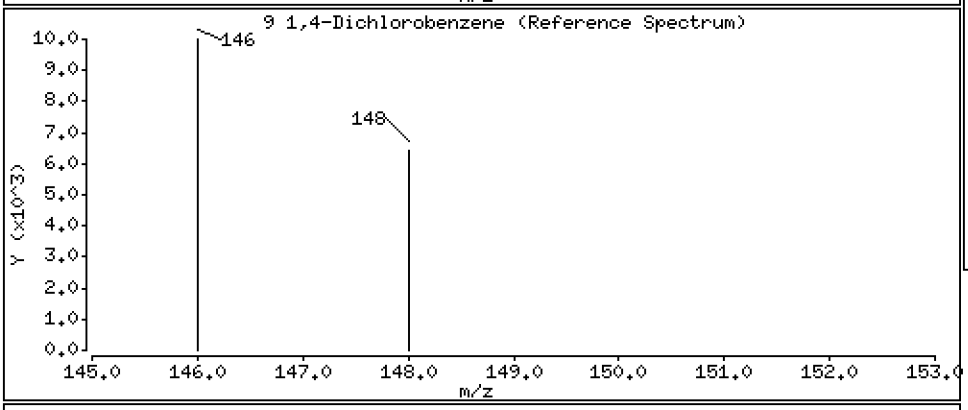
Concentration: 3.395 ug/L

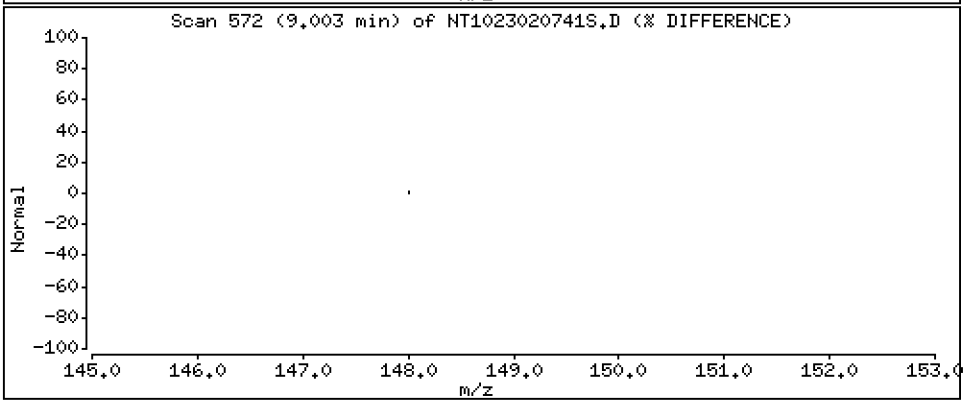












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 41S.D

Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

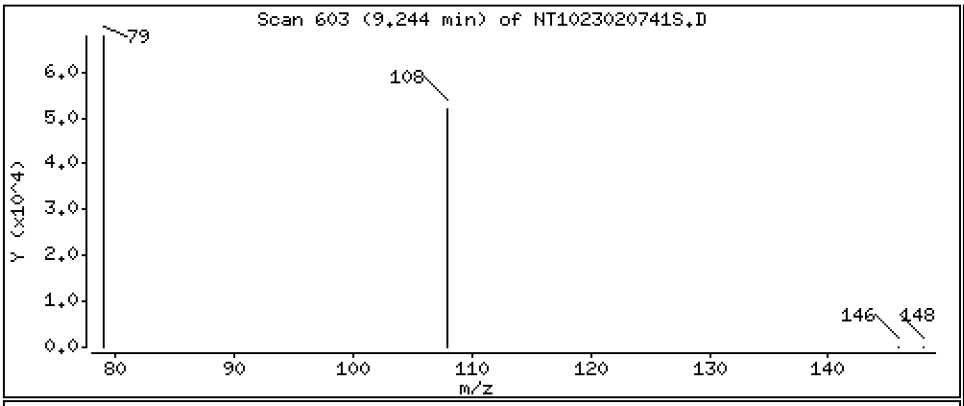
Operator: DSD

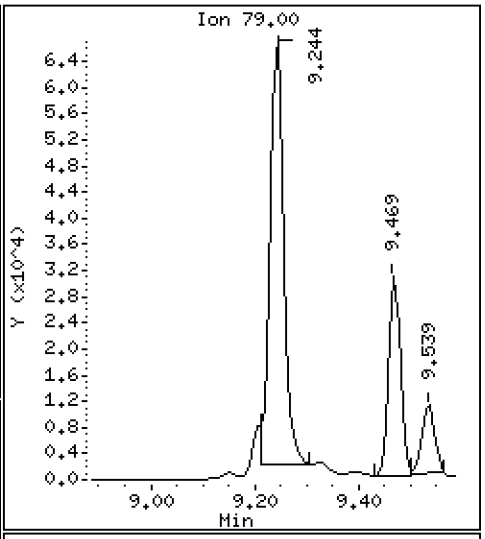
Column phase: ZB-5msi

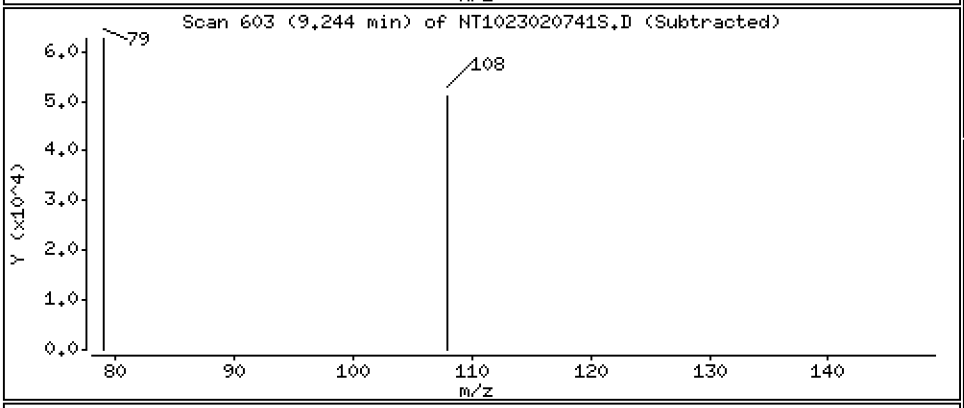
Column diameter: 0.25

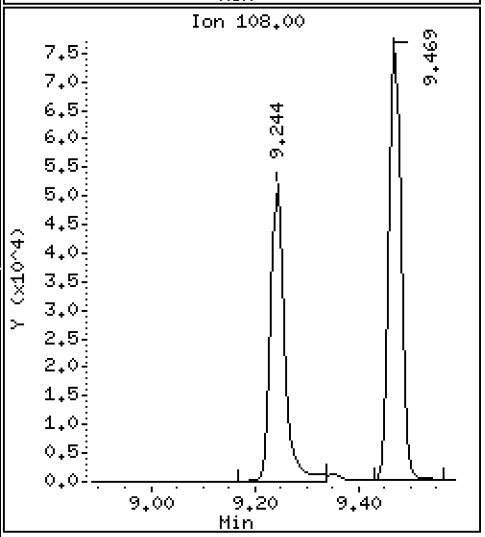
11 Benzyl alcohol

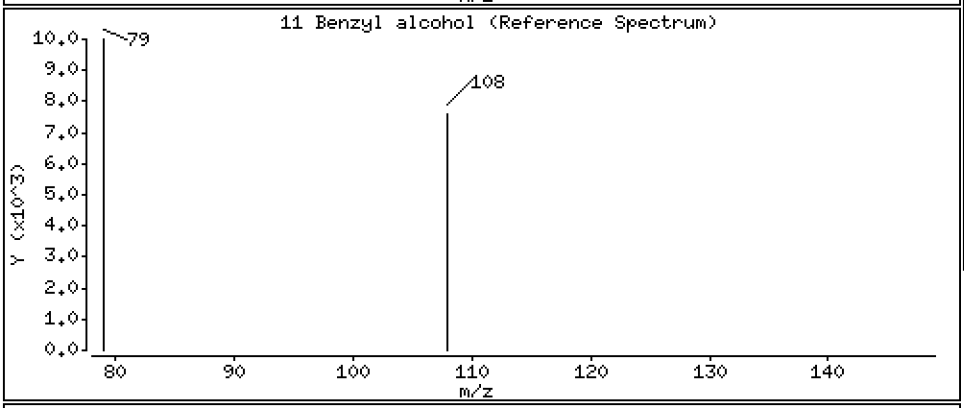
Concentration: 4.991 ug/L

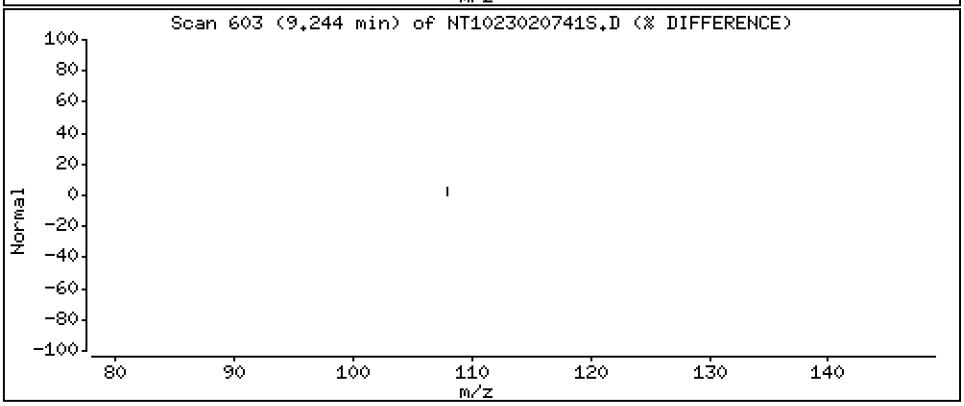












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 41S.D

Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

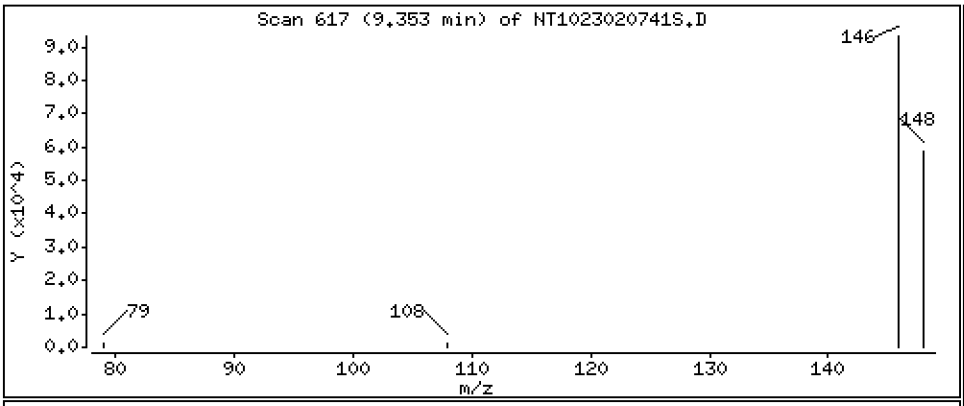
Operator: DSD

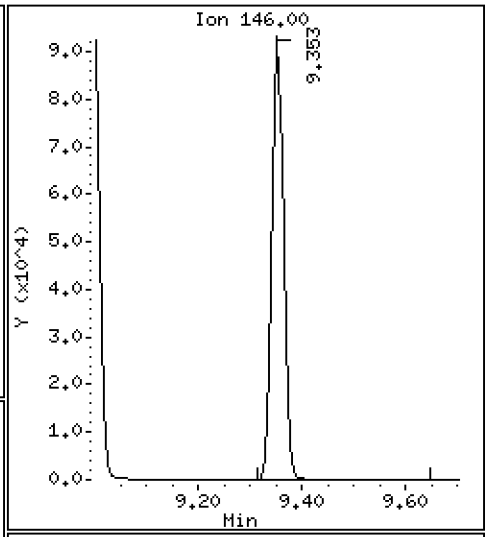
Column phase: ZB-5msi

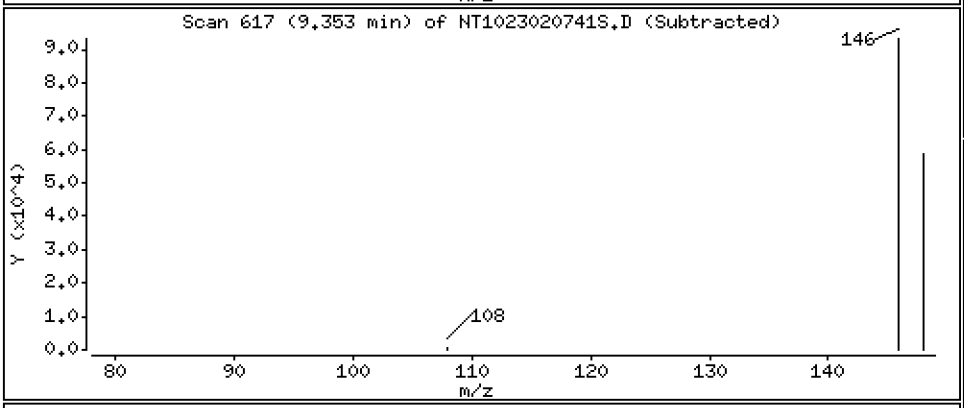
Column diameter: 0.25

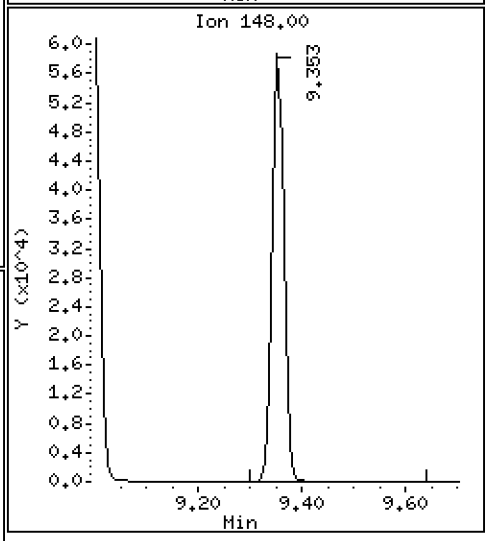
12 1,2-Dichlorobenzene

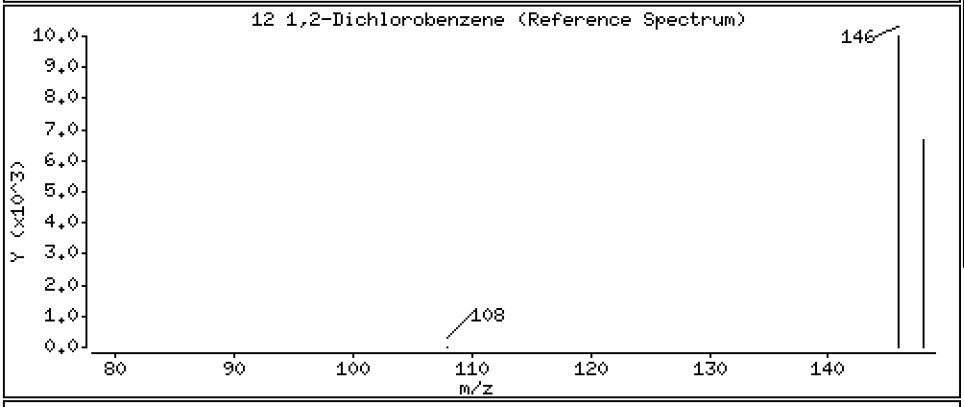
Concentration: 3.408 ug/L

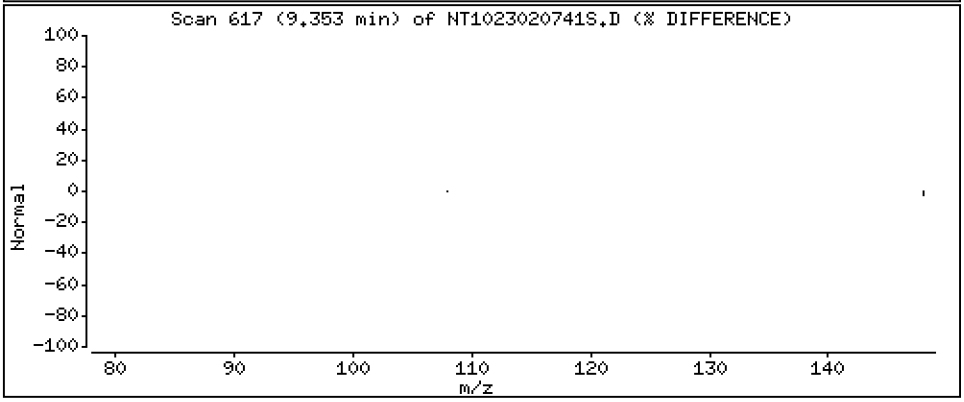












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 41S.D

Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

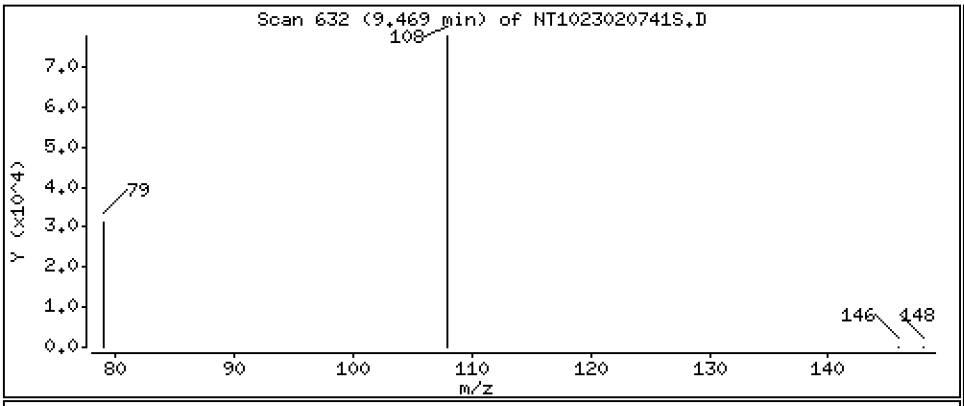
Operator: DSD

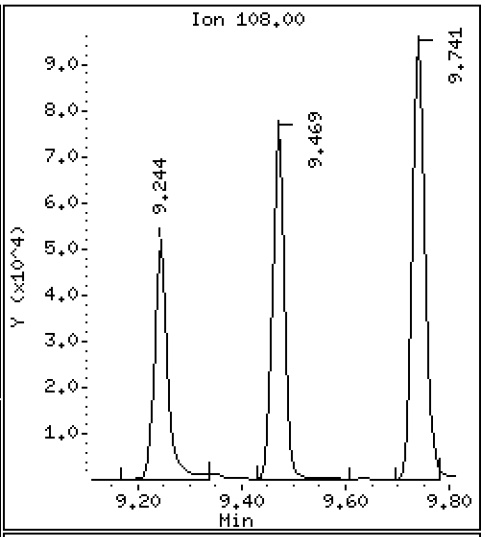
Column phase: ZB-5msi

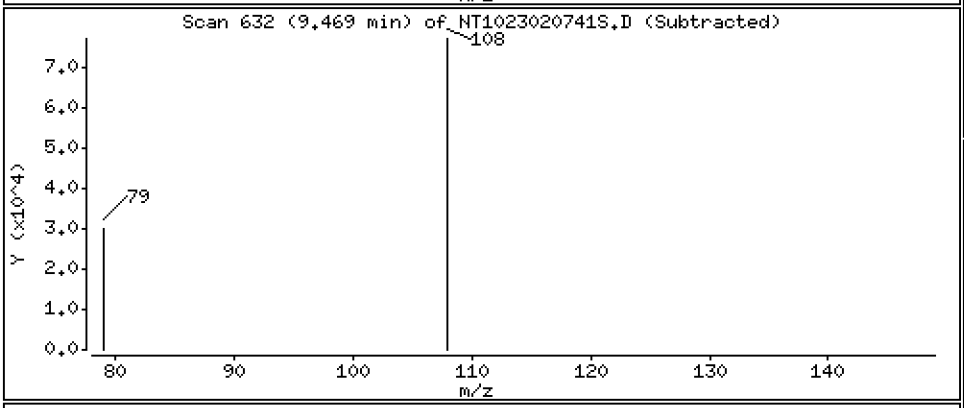
Column diameter: 0.25

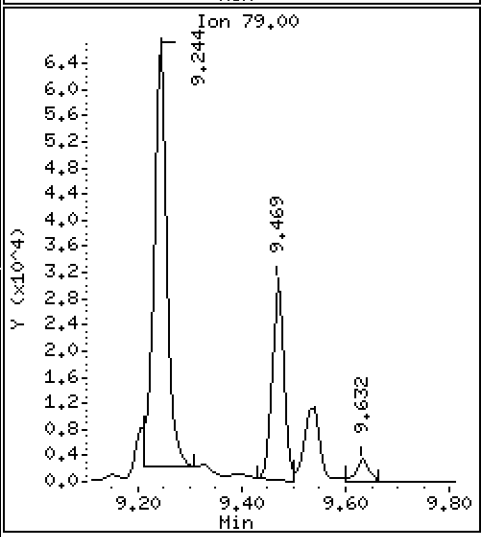
13 2-Methylphenol

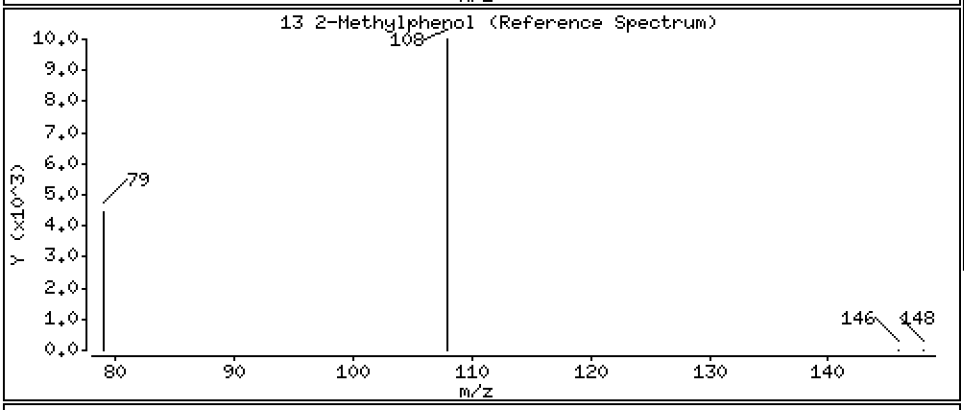
Concentration: 3.732 ug/L

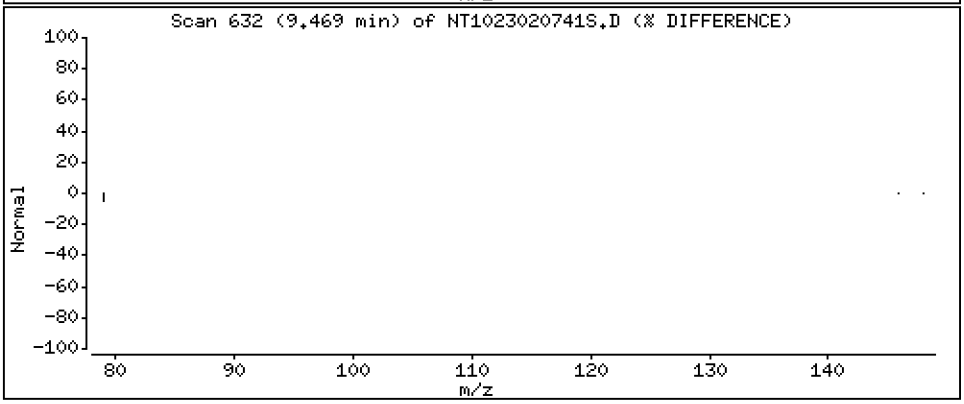












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Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

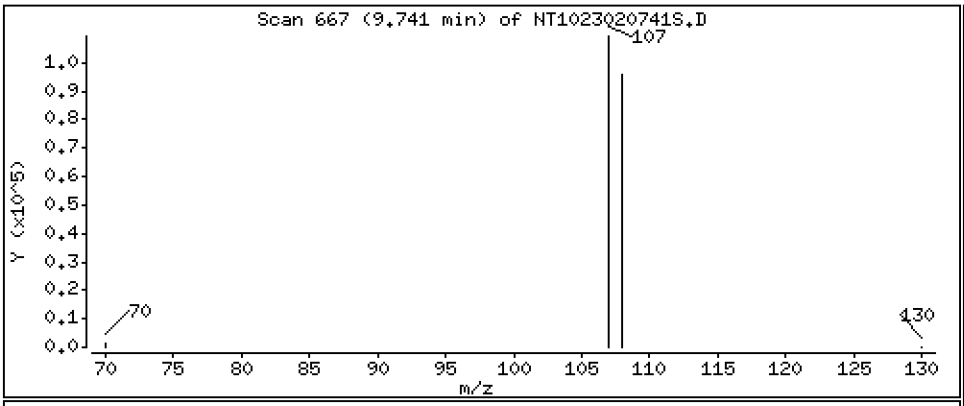
Operator: DSD

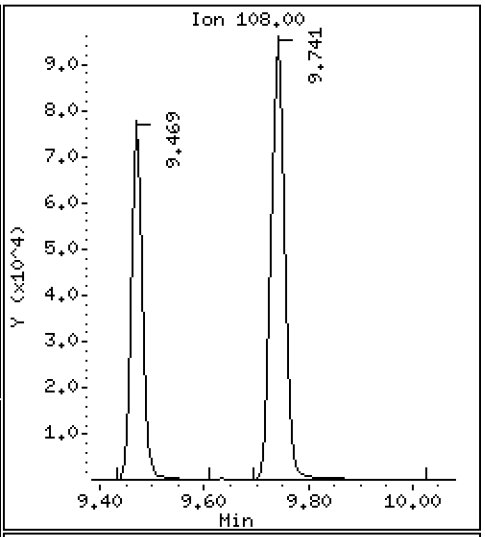
Column phase: ZB-5msi

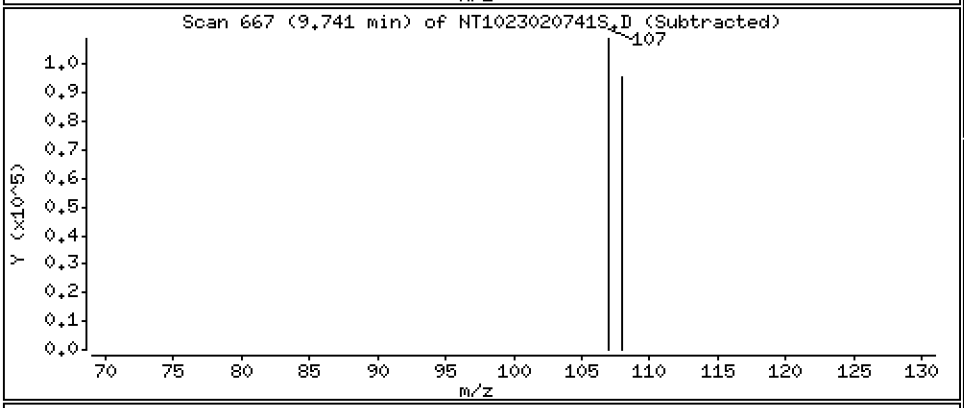
Column diameter: 0.25

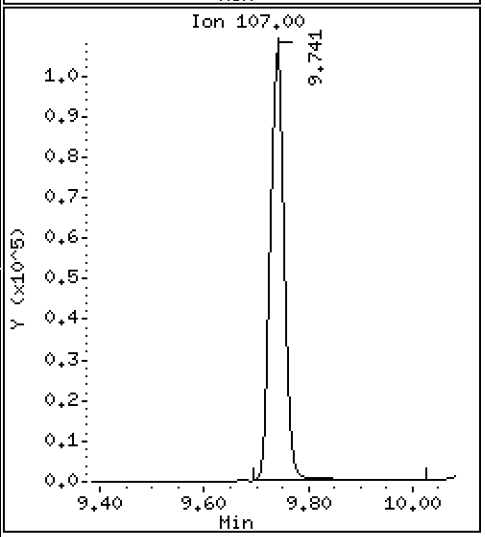
15 4-Methylphenol

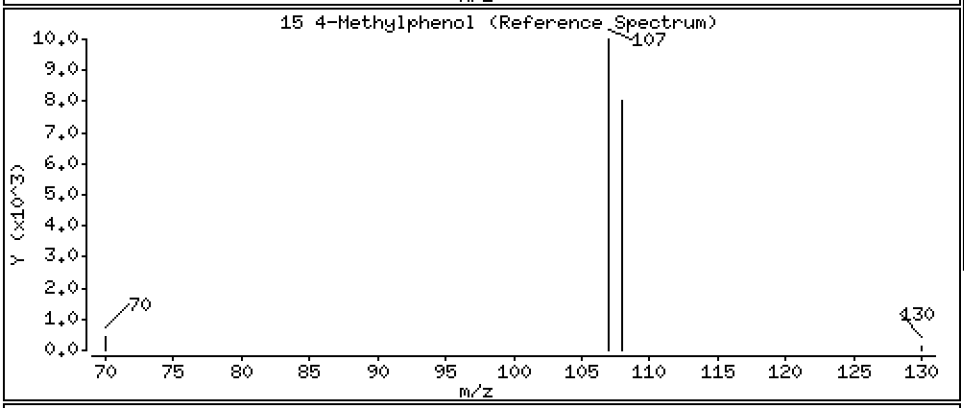
Concentration: 5.290 ug/L

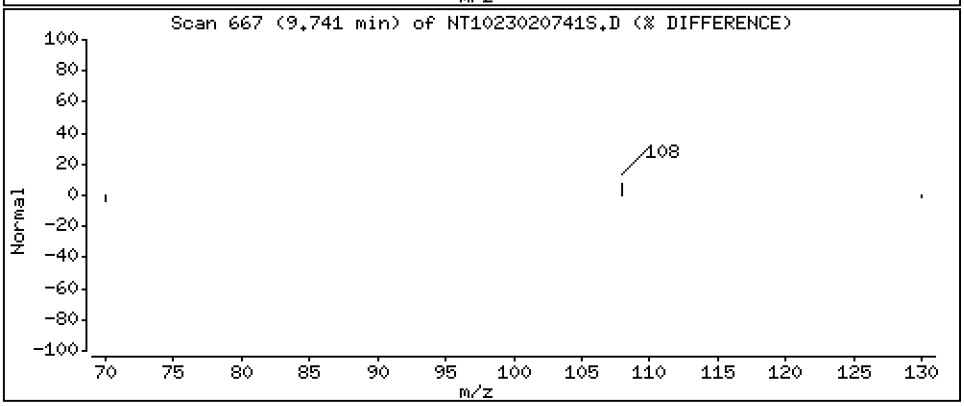












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 41S.D

Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

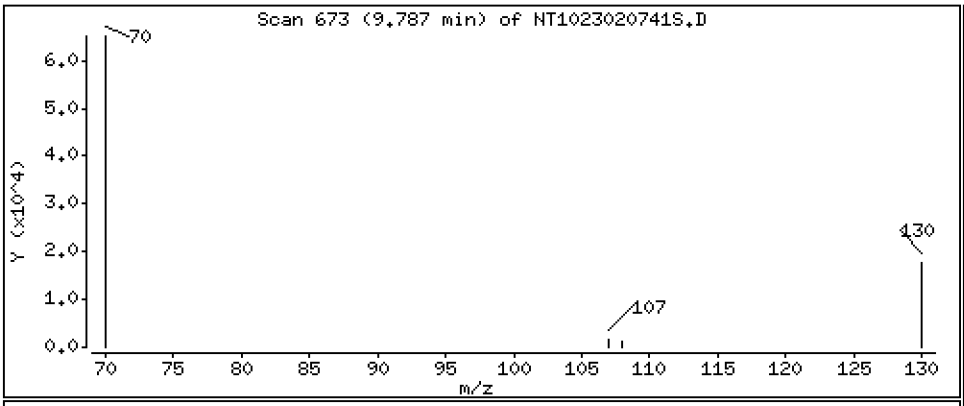
Operator: DSD

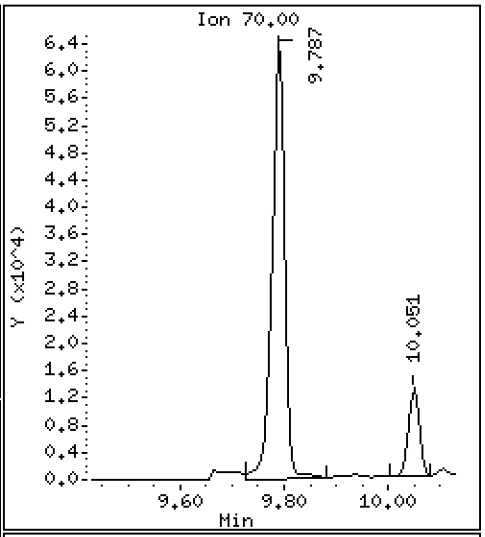
Column phase: ZB-5msi

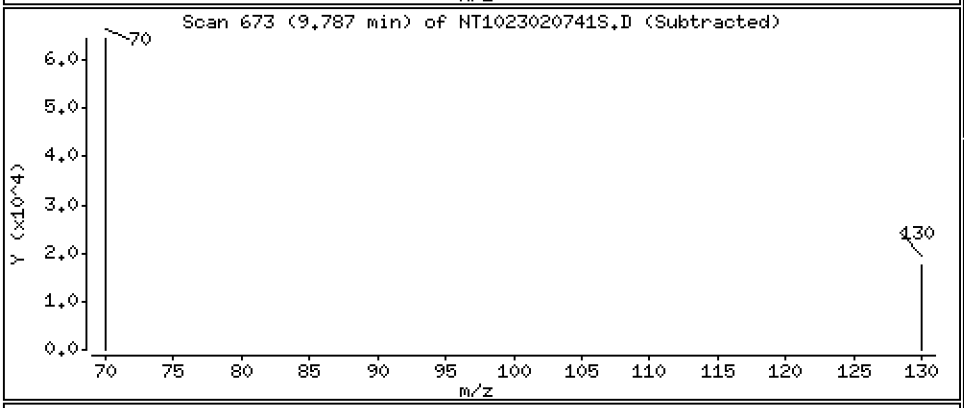
Column diameter: 0.25

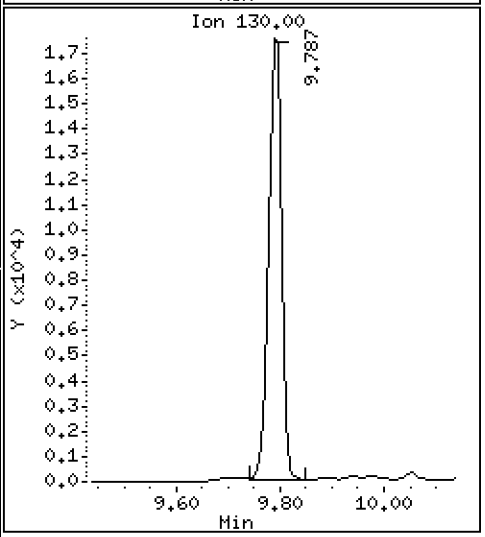
16 N-Nitroso-di-n-propylamine

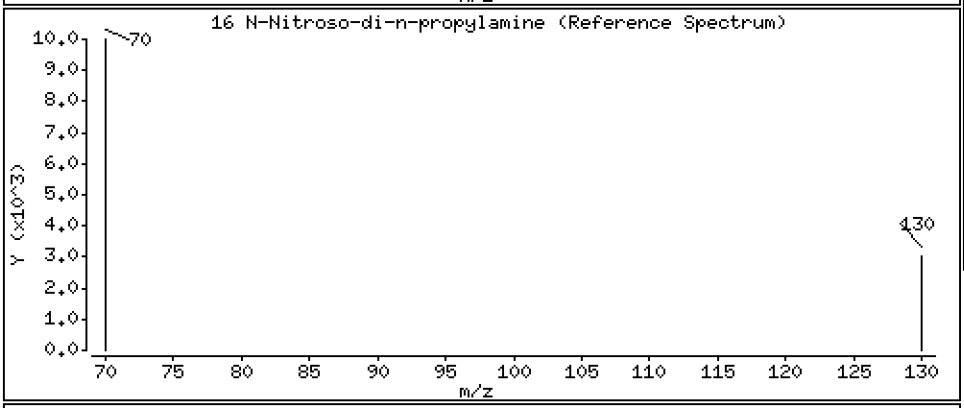
Concentration: 4.609 ug/L

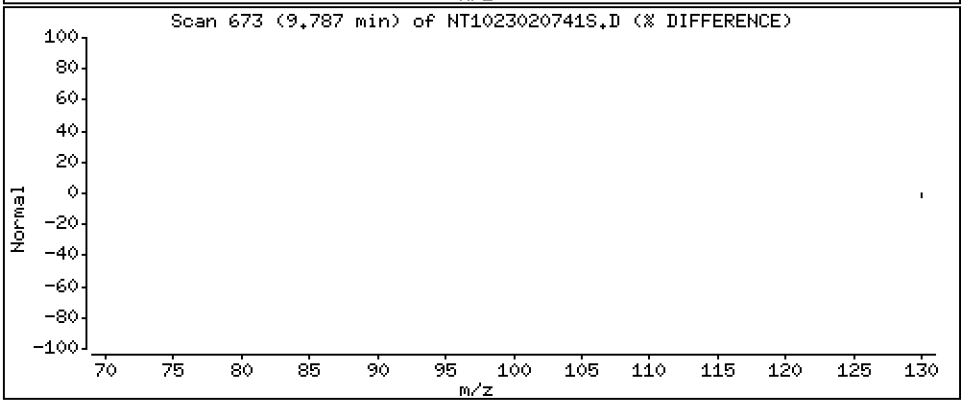












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Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

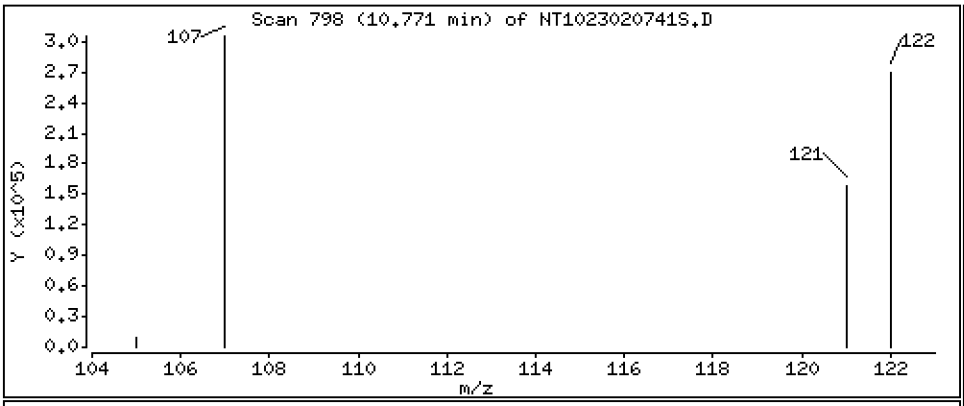
Operator: DSD

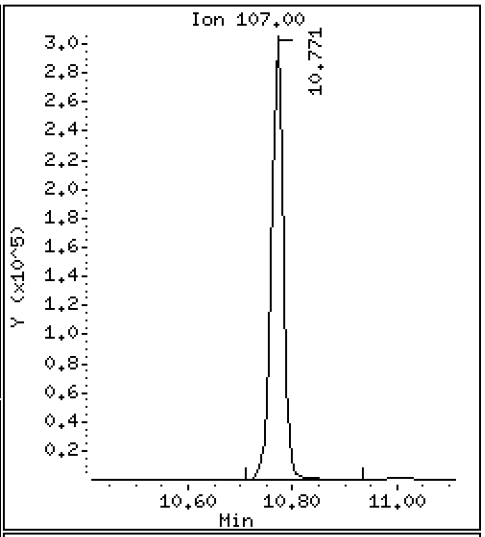
Column phase: ZB-5msi

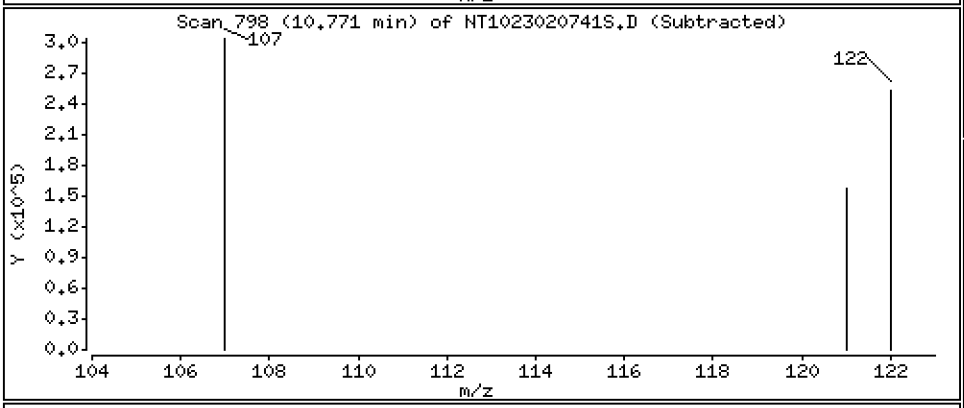
Column diameter: 0.25

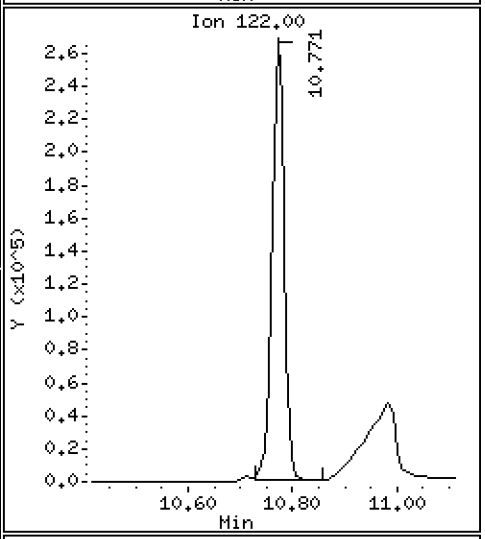
22 2,4-Dimethylphenol

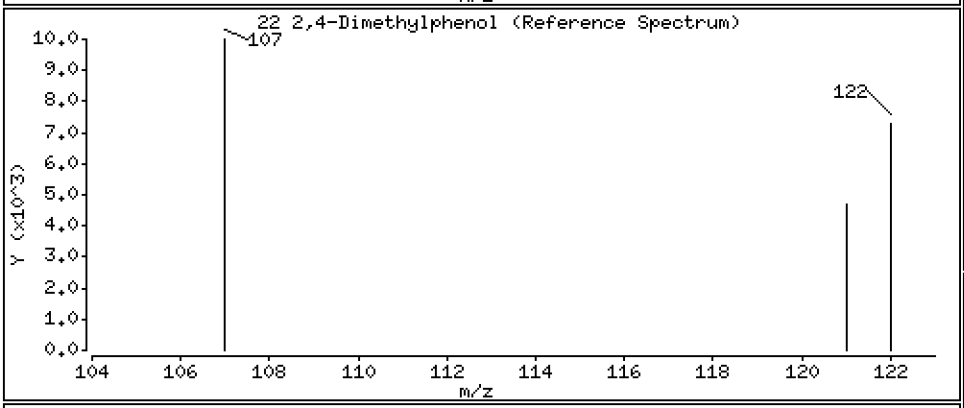
Concentration: 13.92 ug/L

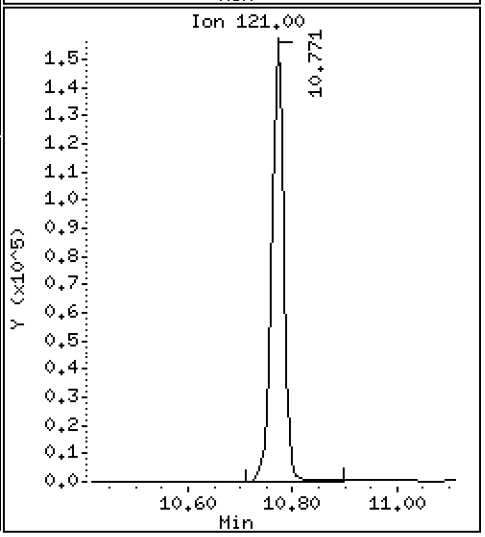


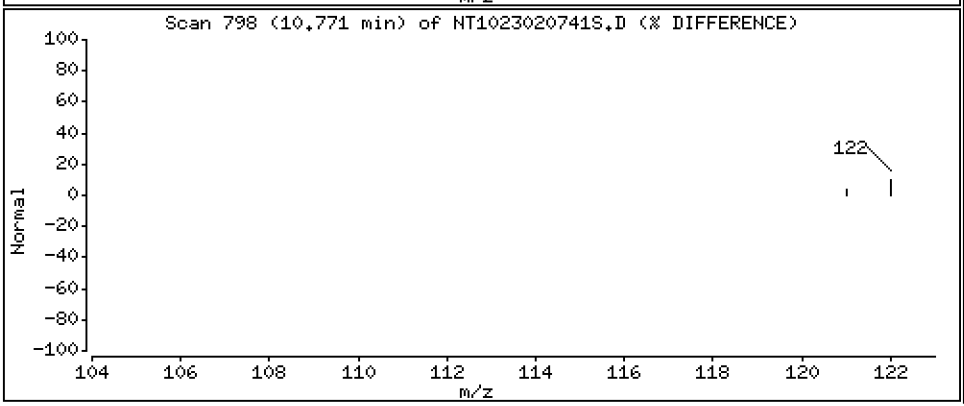












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Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

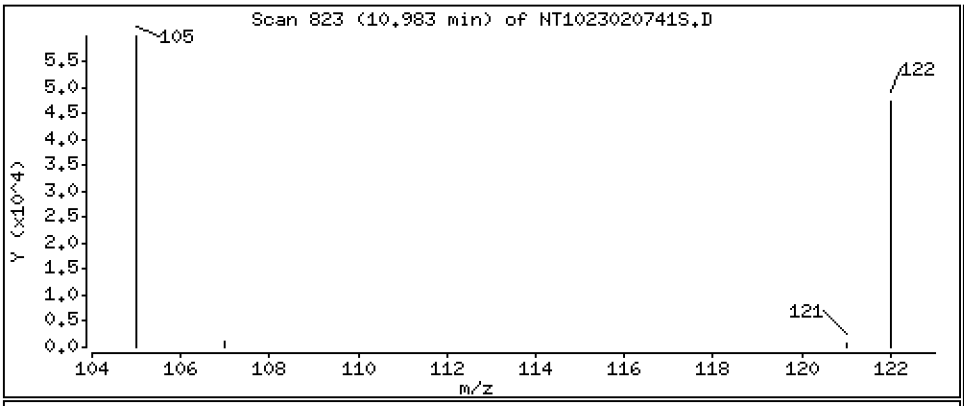
Operator: DSD

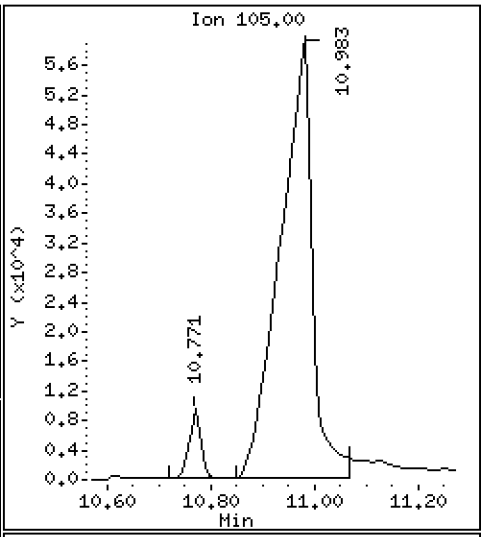
Column phase: ZB-5msi

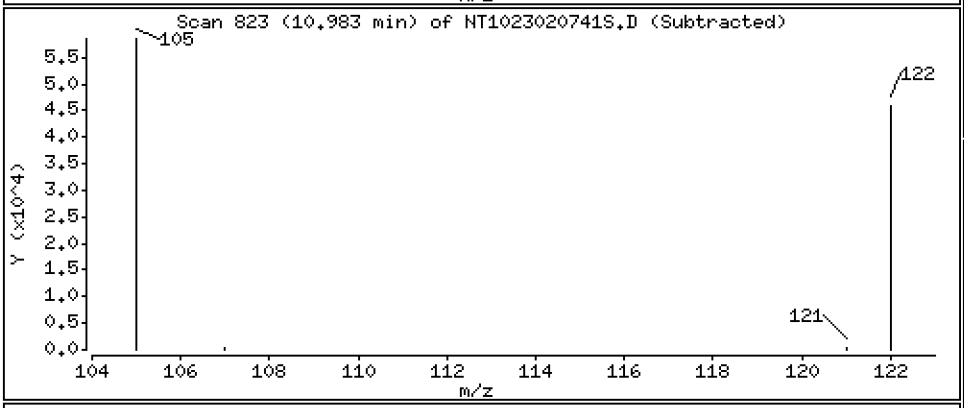
Column diameter: 0.25

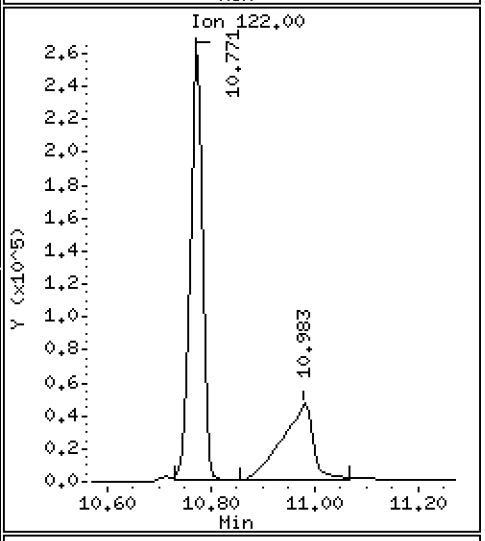
24 Benzoic acid

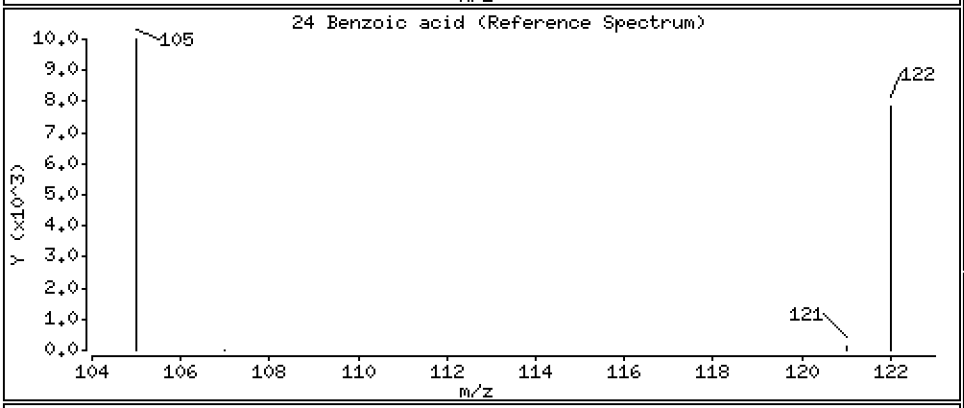
Concentration: 15.00 ug/L

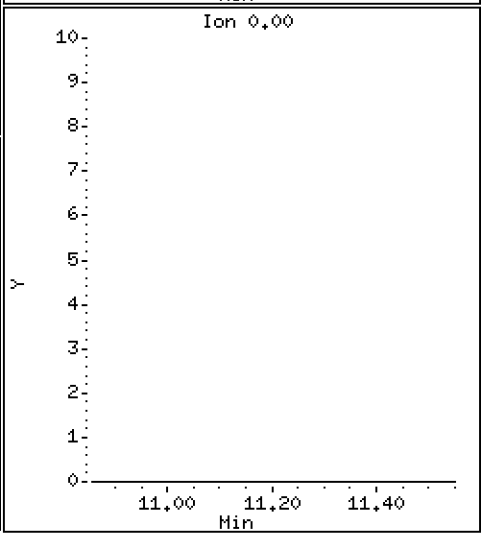


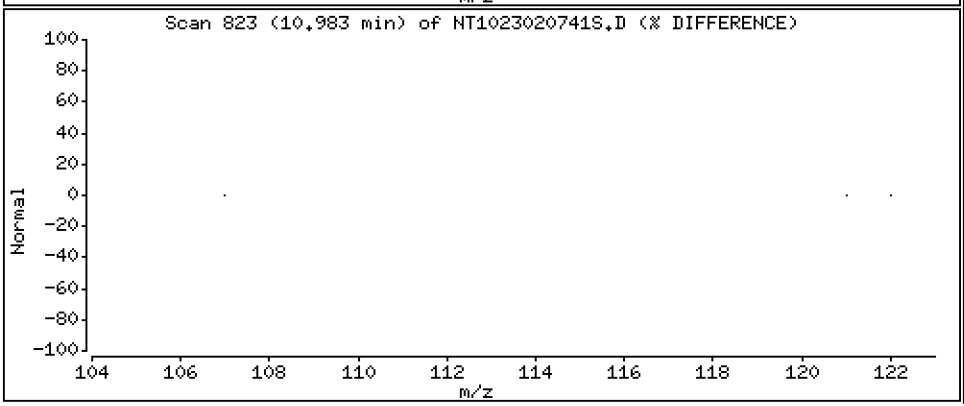












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Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

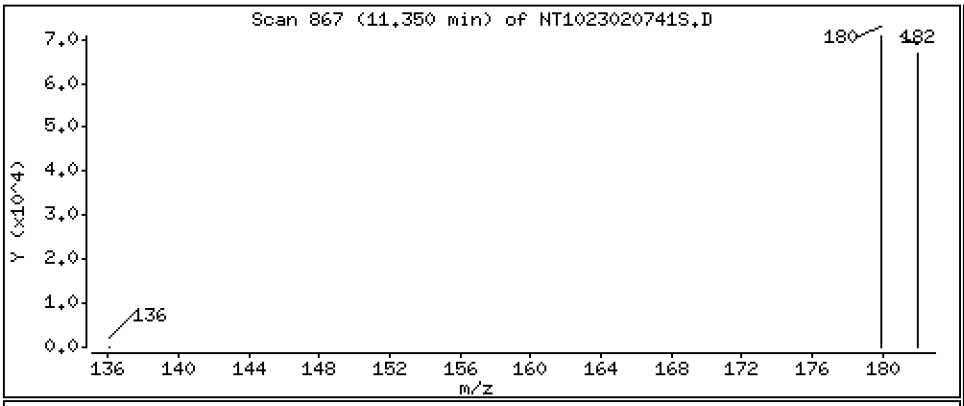
Operator: DSD

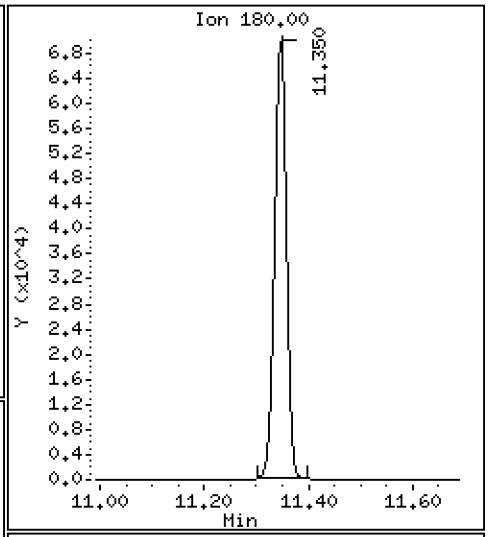
Column phase: ZB-5msi

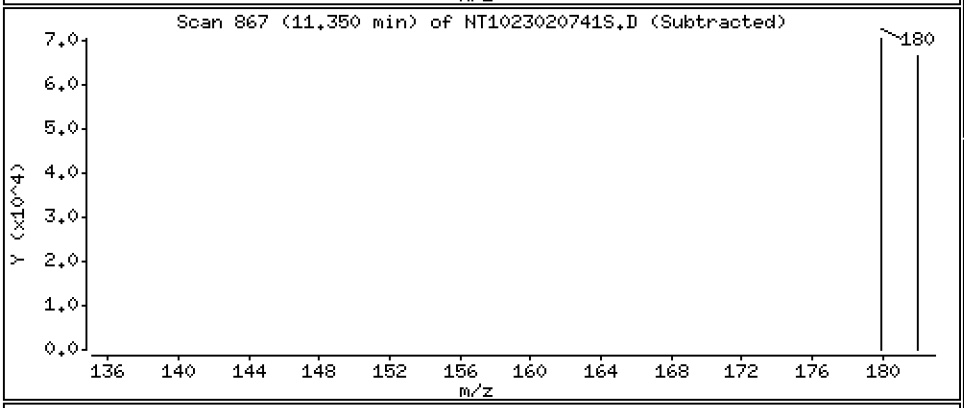
Column diameter: 0.25

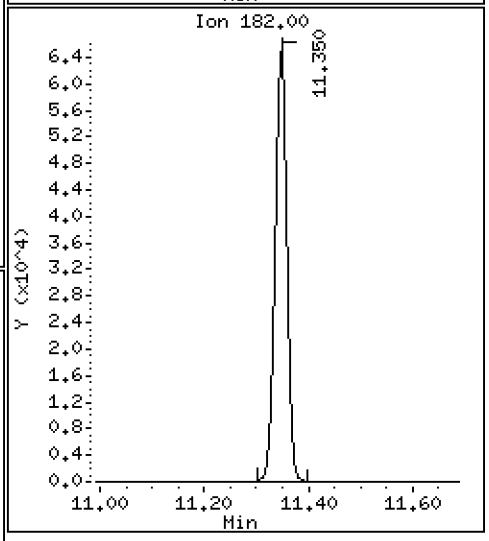
26 1,2,4-Trichlorobenzene

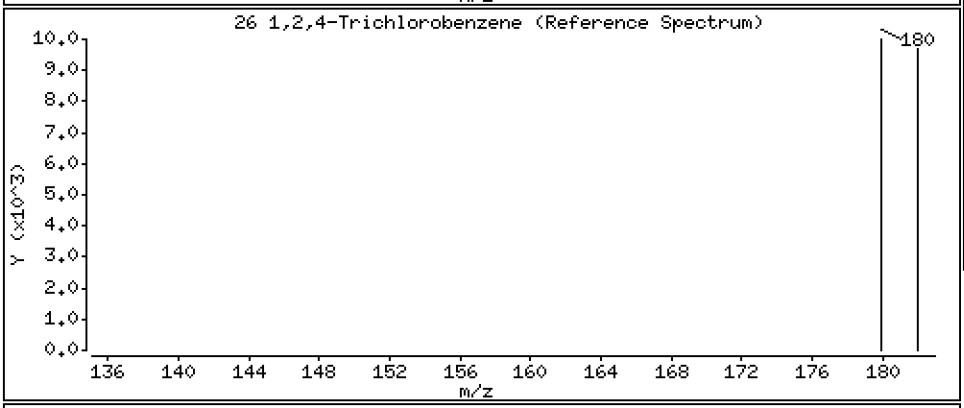
Concentration: 3.634 ug/L

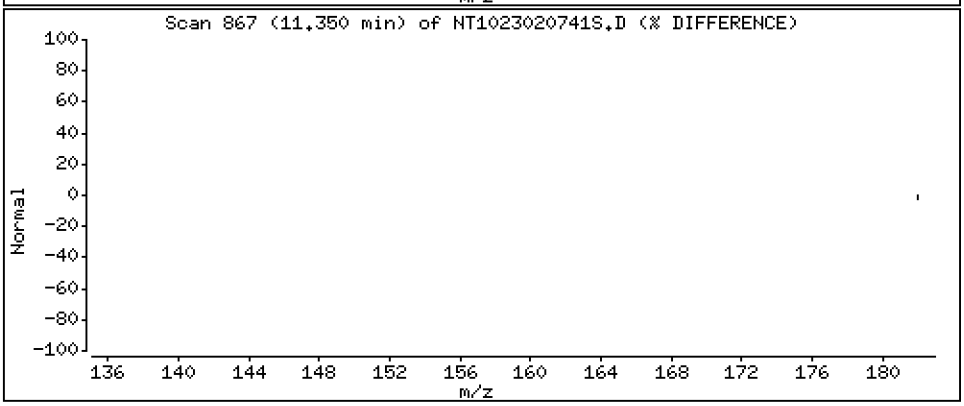












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Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

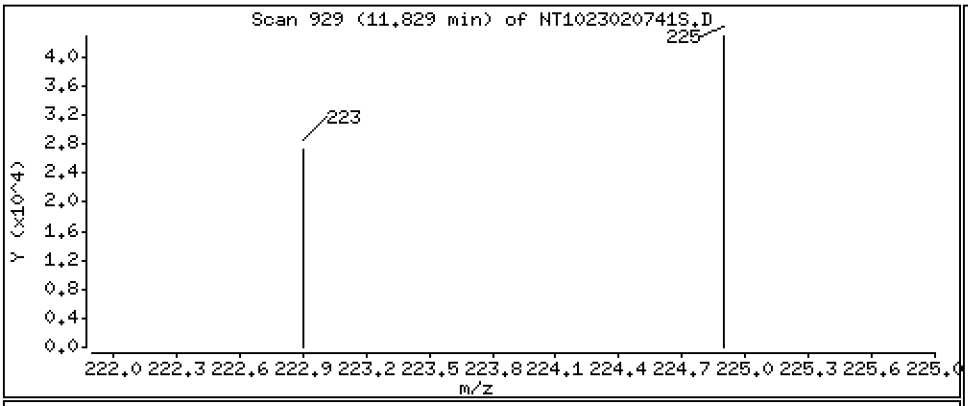
Operator: DSD

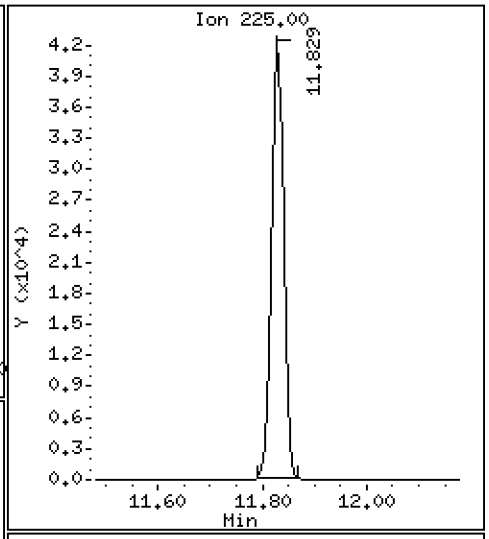
Column phase: ZB-5msi

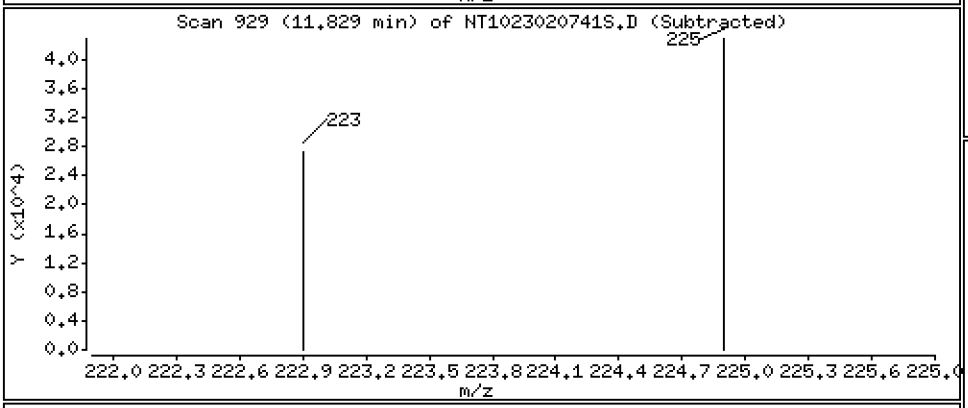
Column diameter: 0.25

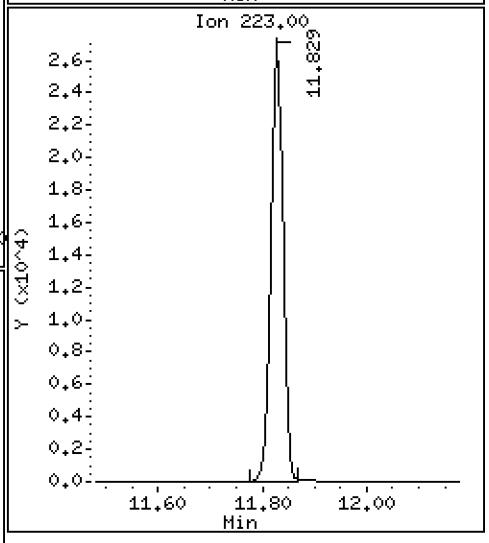
30 Hexachlorobutadiene

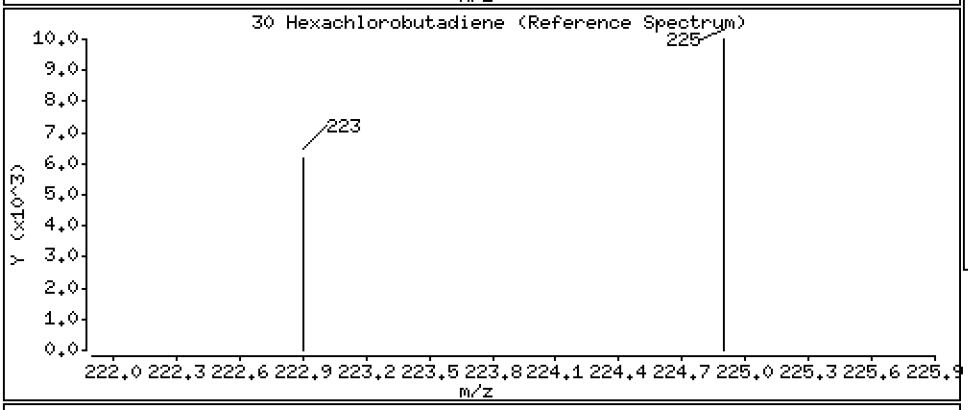
Concentration: 3.652 ug/L

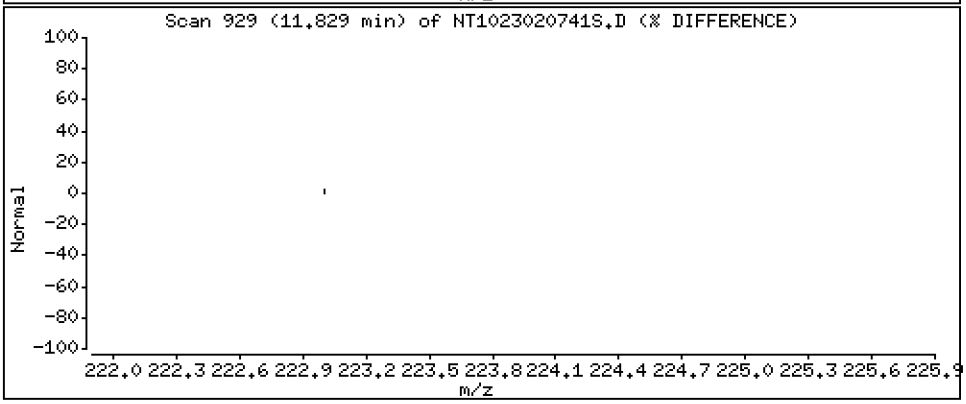












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Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

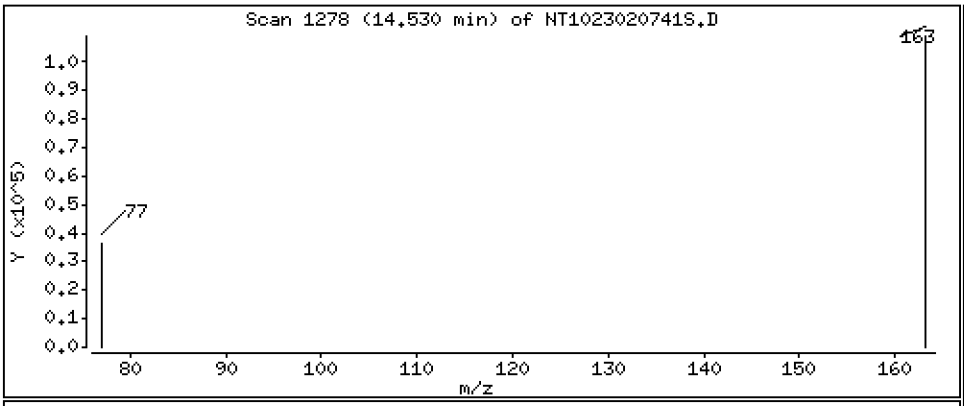
Operator: DSD

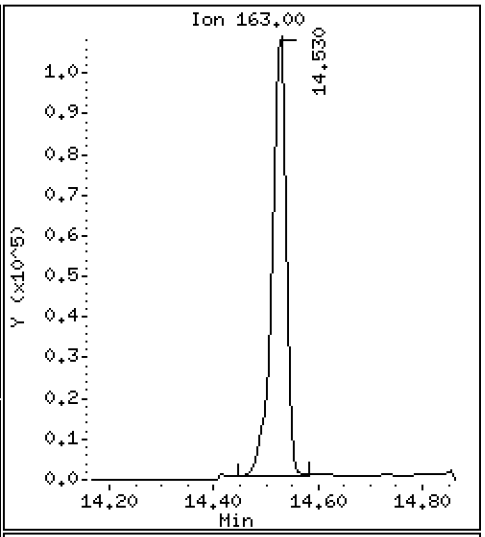
Column phase: ZB-5msi

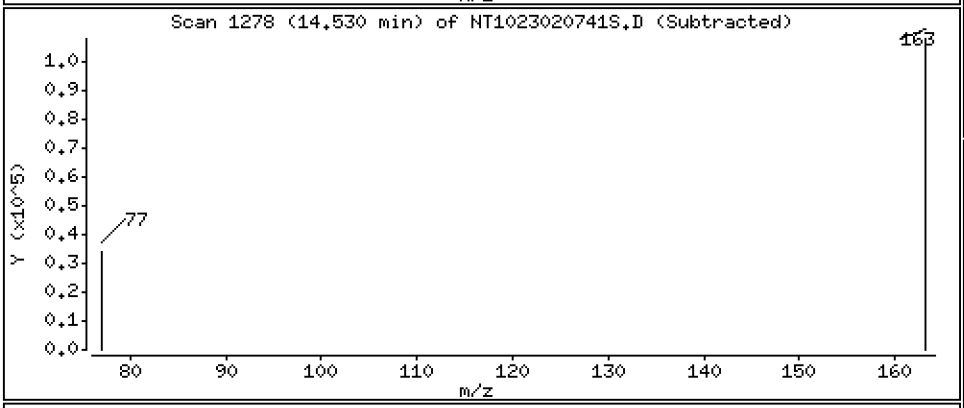
Column diameter: 0.25

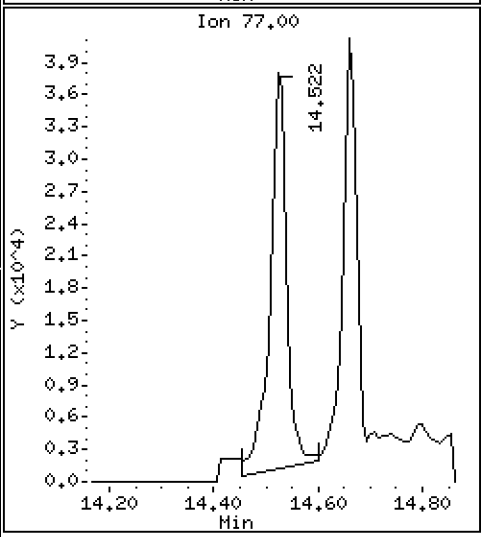
39 Dimethylphthalate

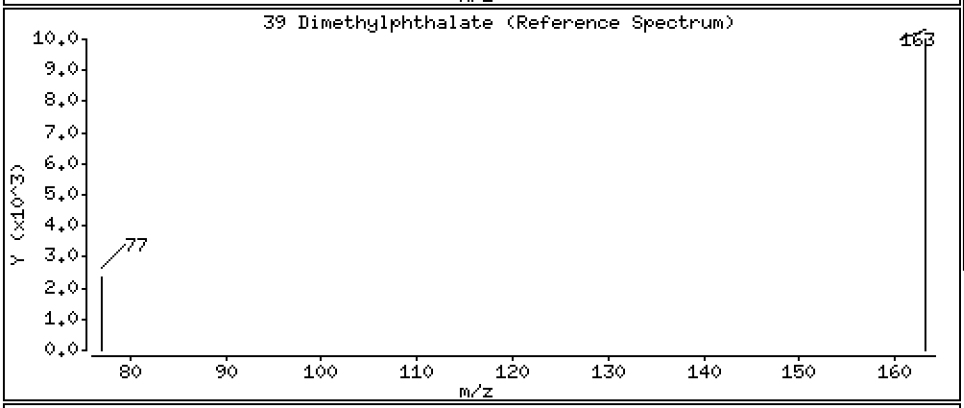
Concentration: 4.557 ug/L

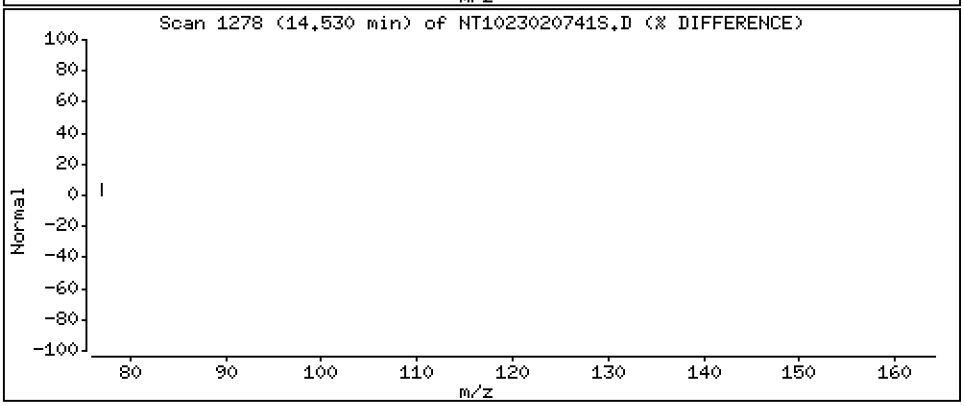












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Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

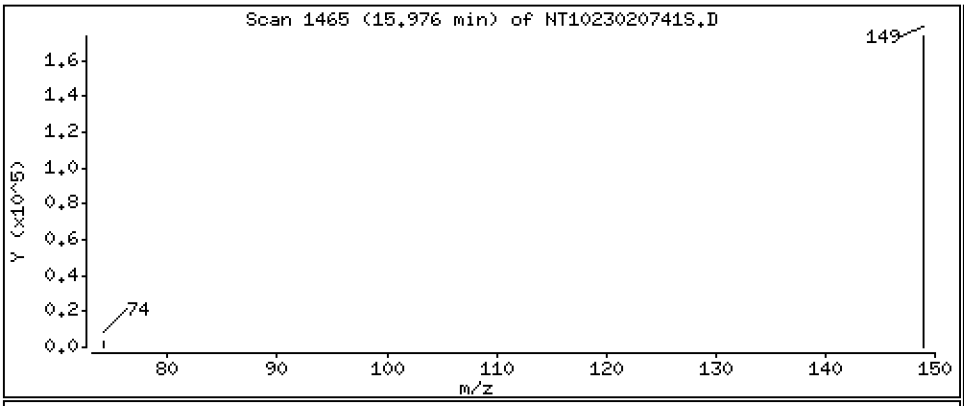
Operator: DSD

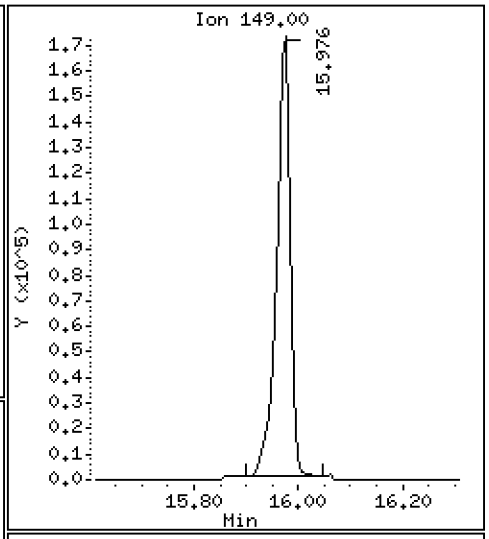
Column phase: ZB-5msi

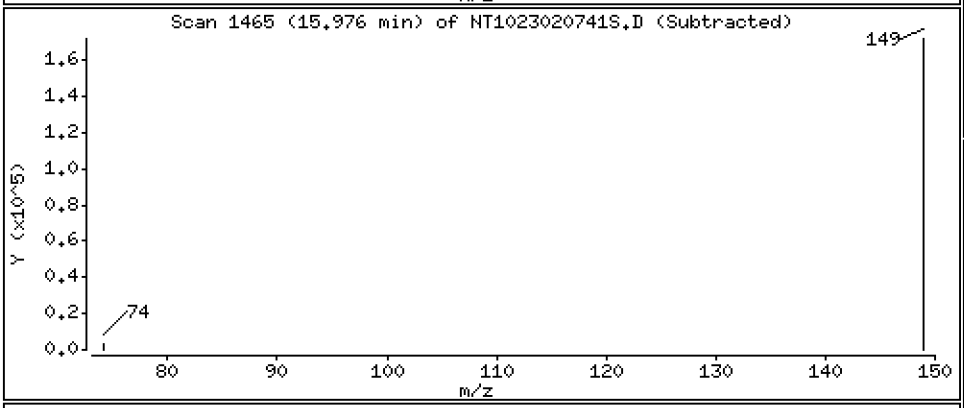
Column diameter: 0.25

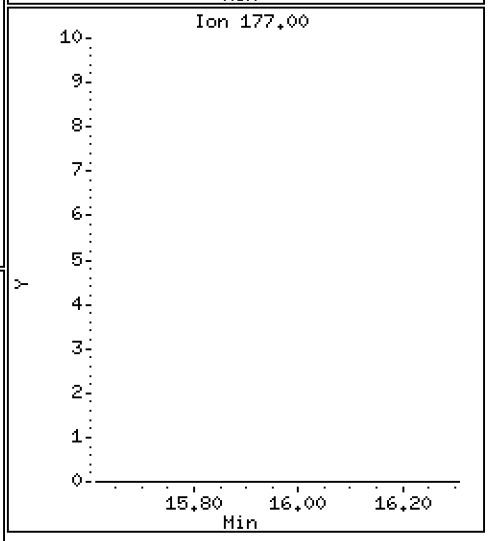
50 Diethylphthalate

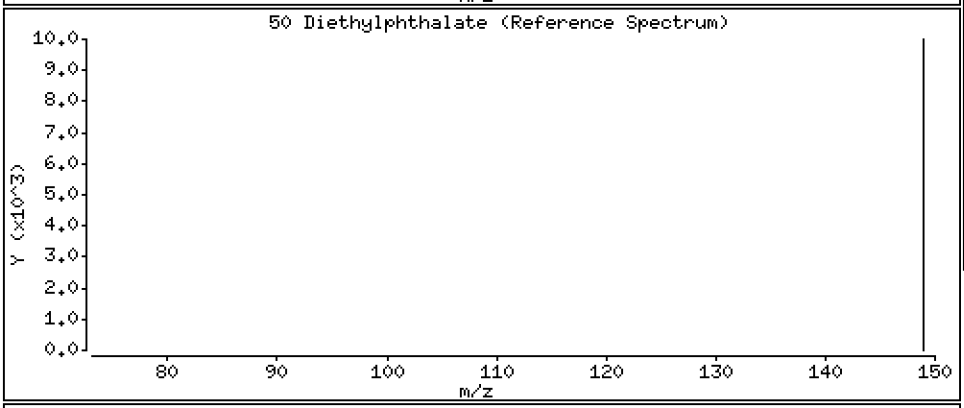
Concentration: 4.778 ug/L

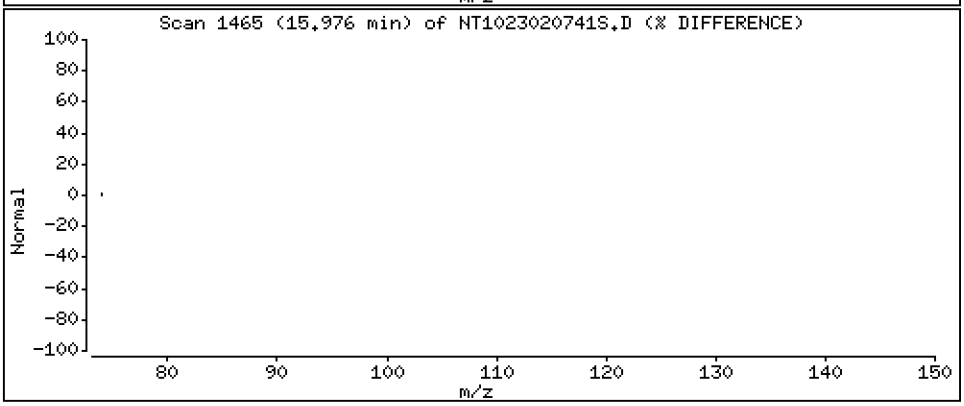












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Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

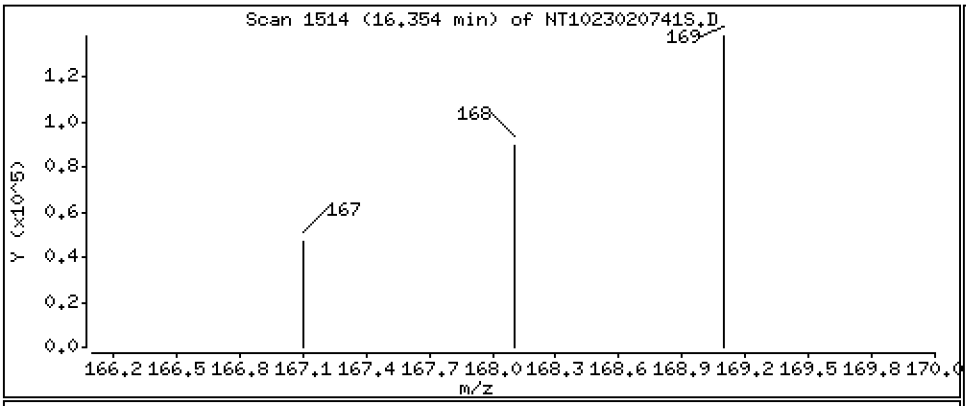
Operator: DSD

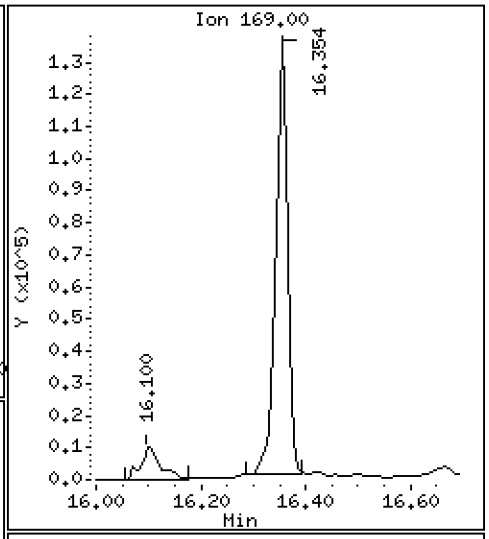
Column phase: ZB-5msi

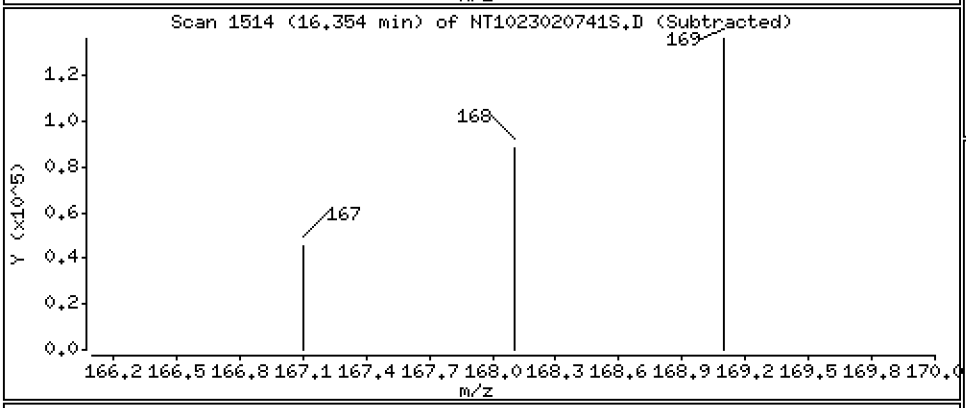
Column diameter: 0.25

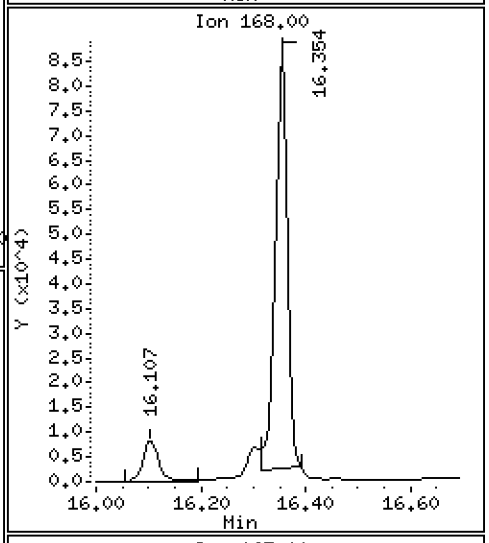
54 N-Nitrosodiphenylamine

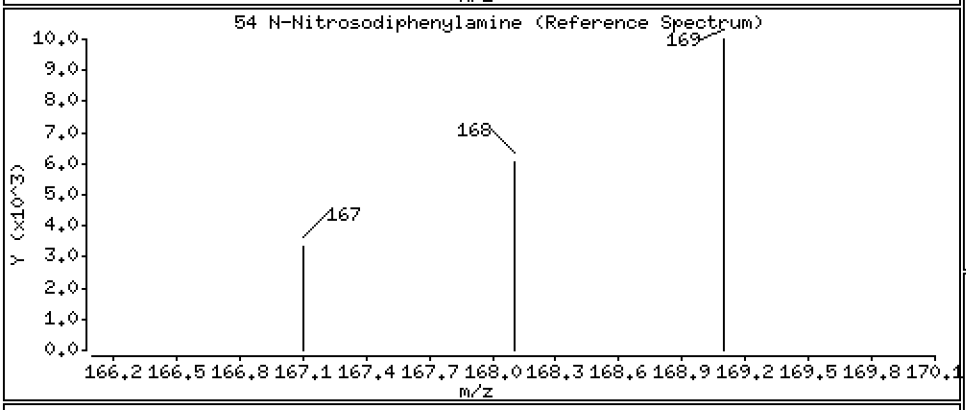
Concentration: 3.748 ug/L

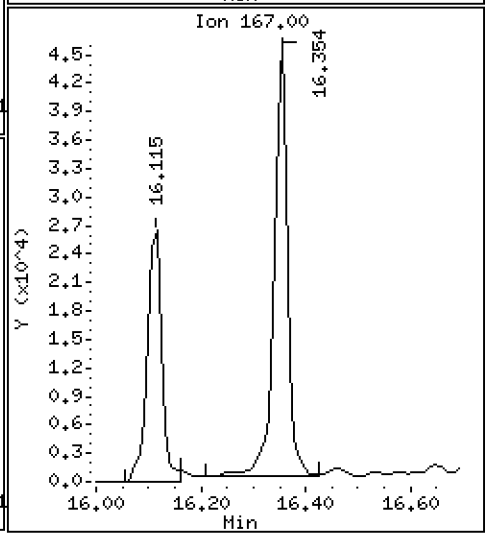


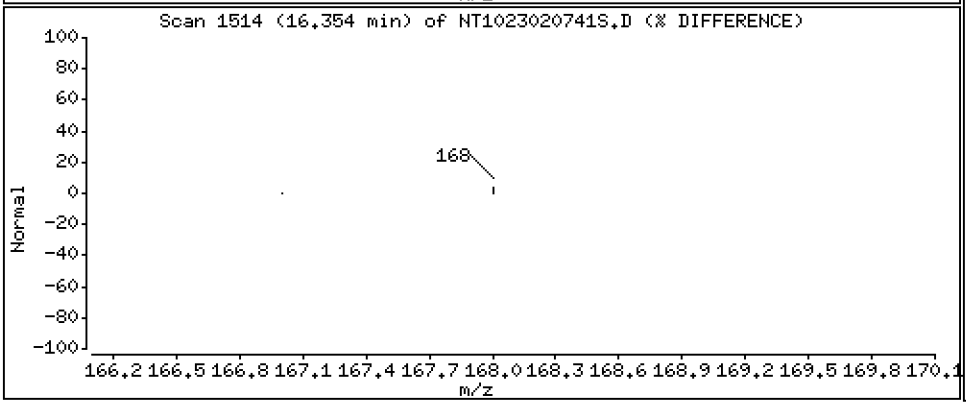












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Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

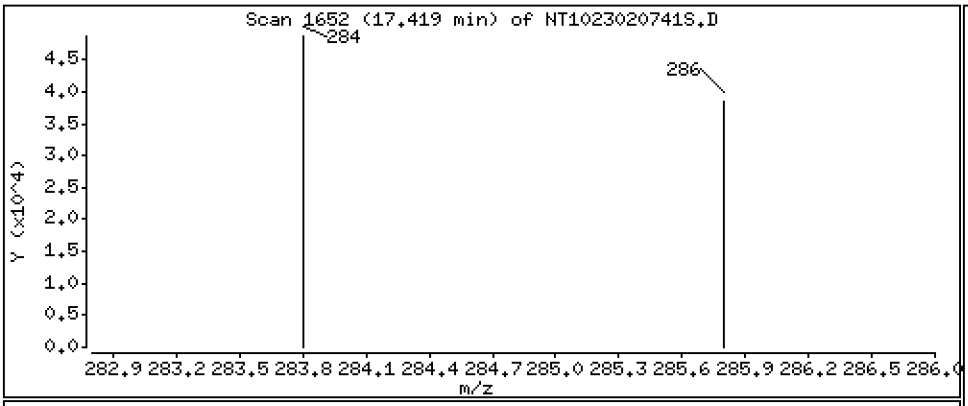
Operator: DSD

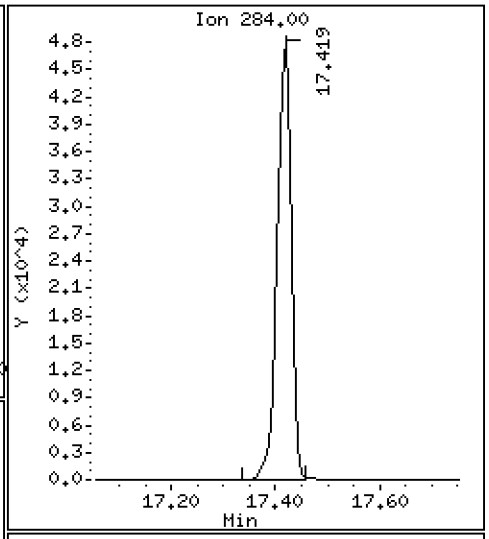
Column phase: ZB-5msi

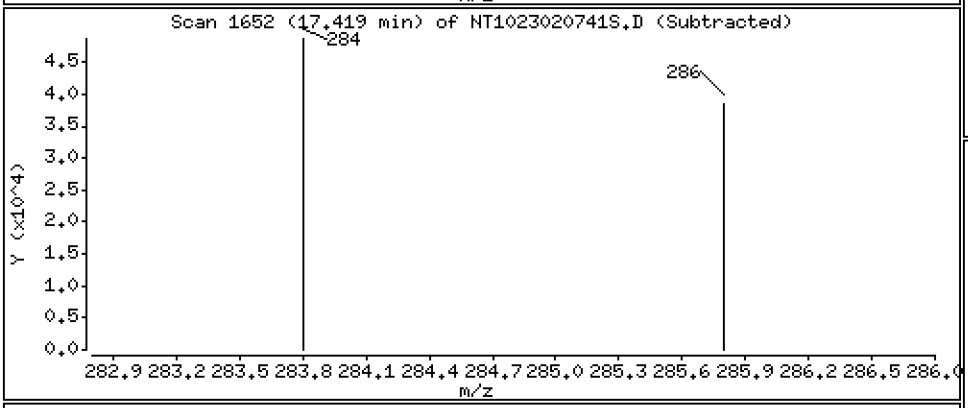
Column diameter: 0.25

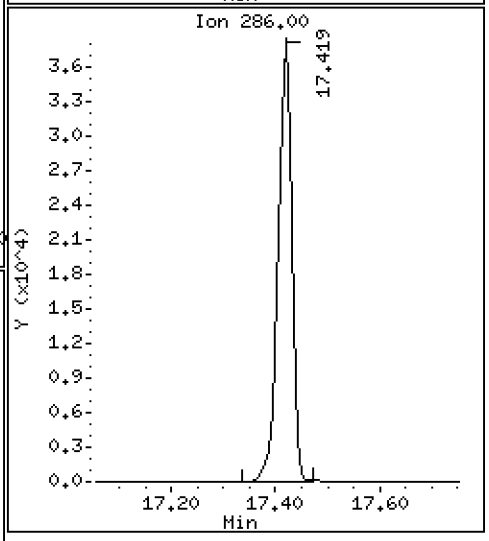
57 Hexachlorobenzene

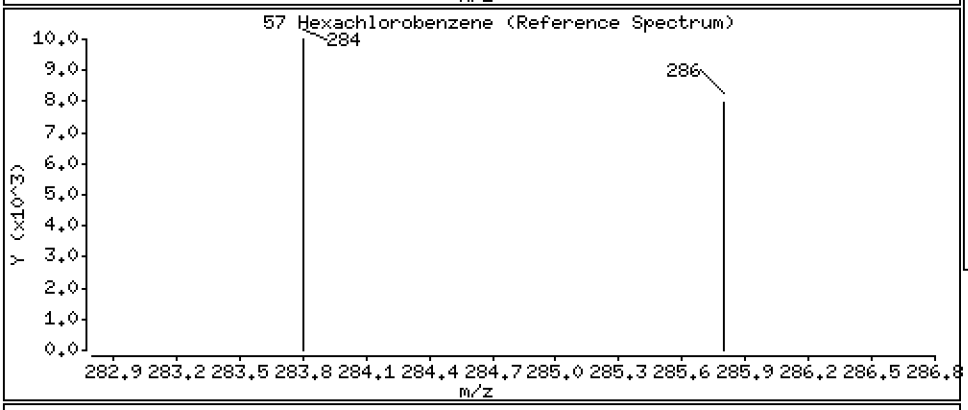
Concentration: 3.700 ug/L

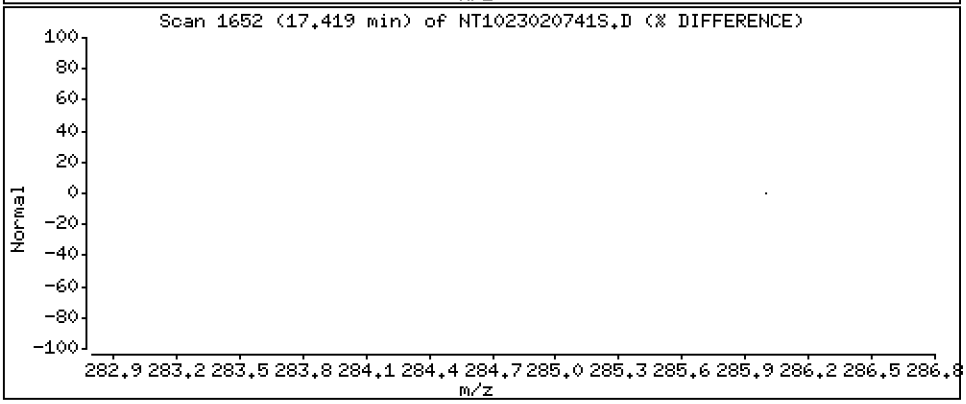












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 41S.D

Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

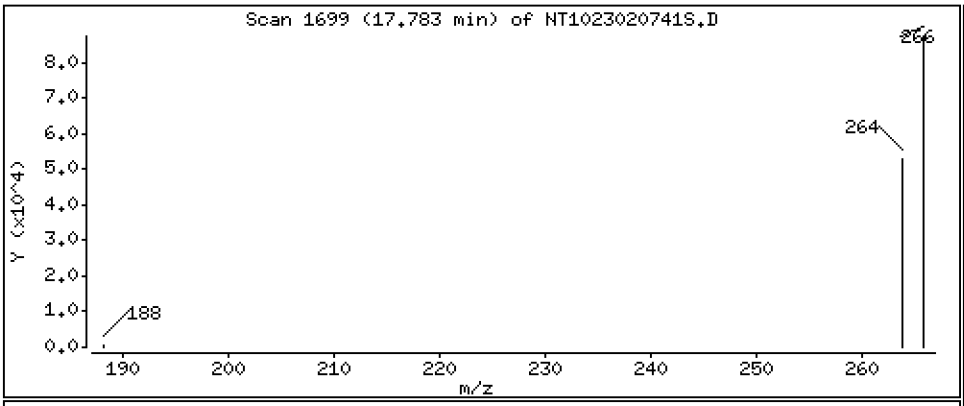
Operator: DSD

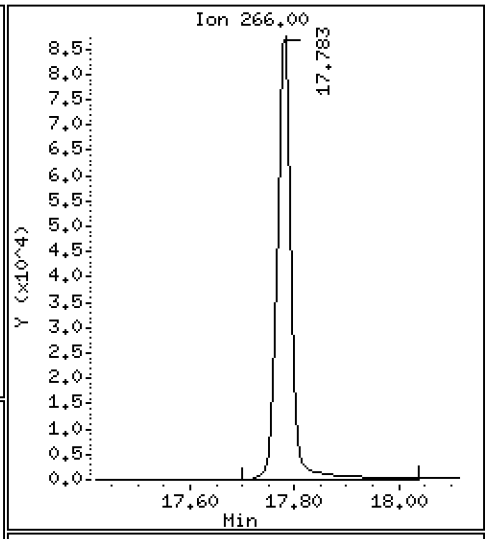
Column phase: ZB-5msi

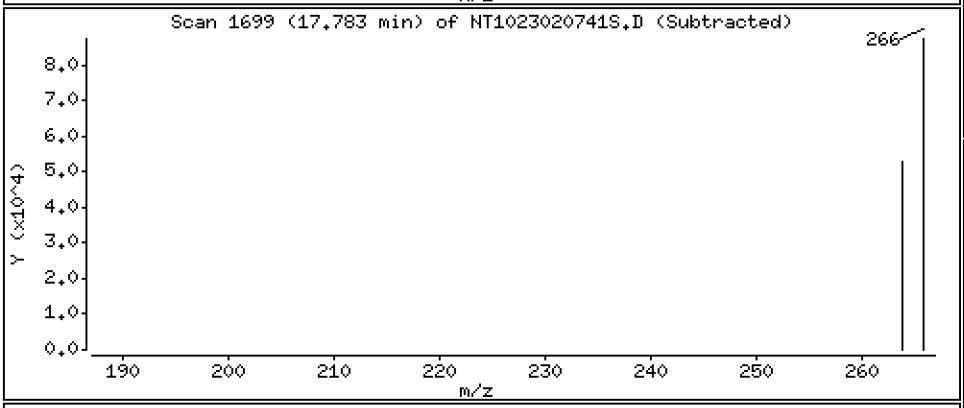
Column diameter: 0.25

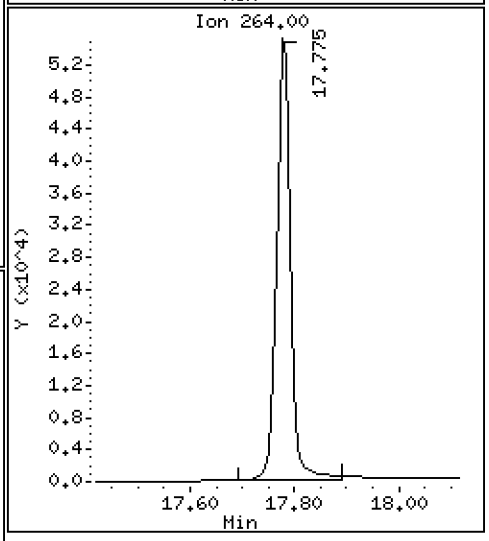
58 Pentachlorophenol

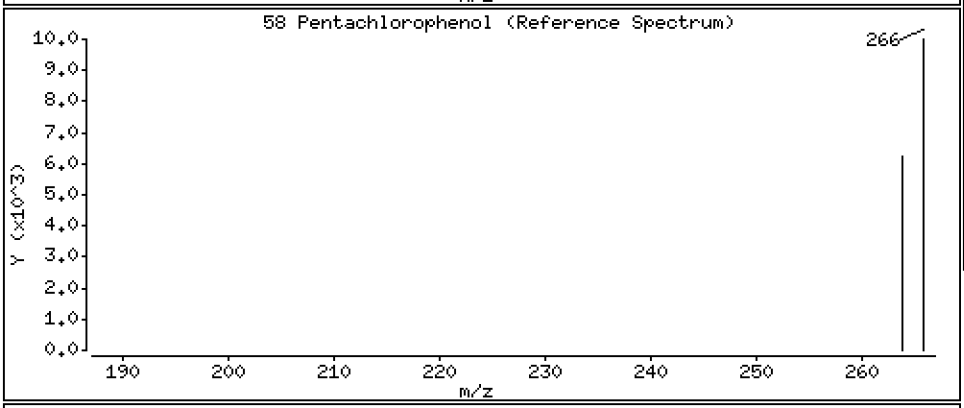
Concentration: 16.54 ug/L

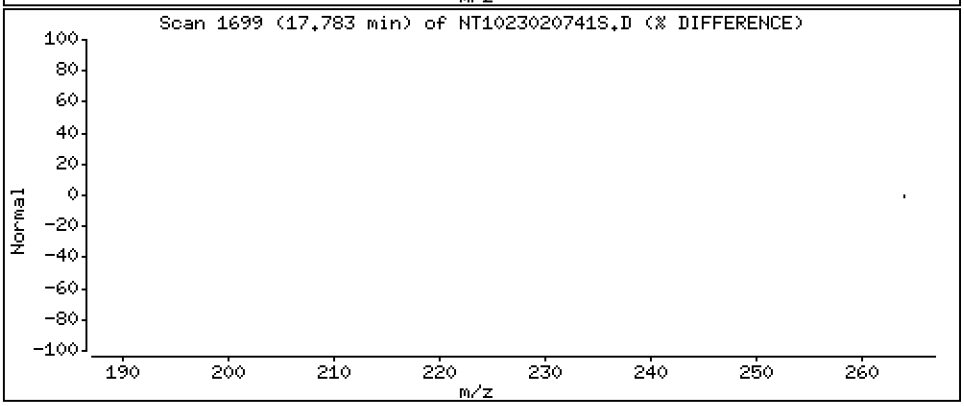












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207415.D

Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

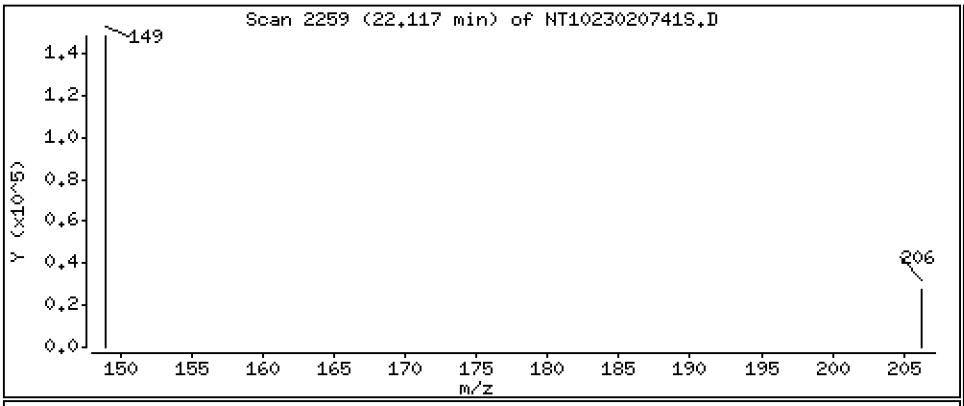
Operator: DSD

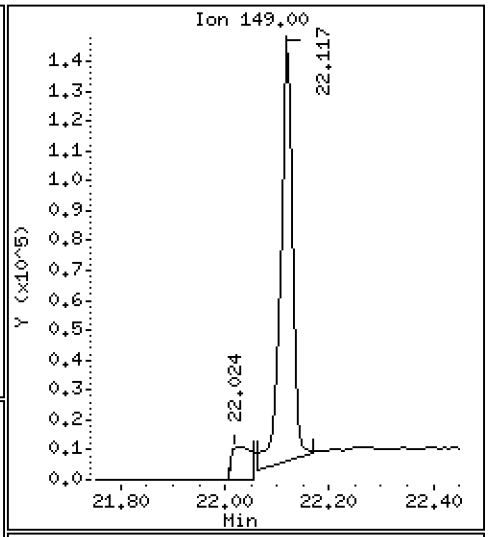
Column phase: ZB-5msi

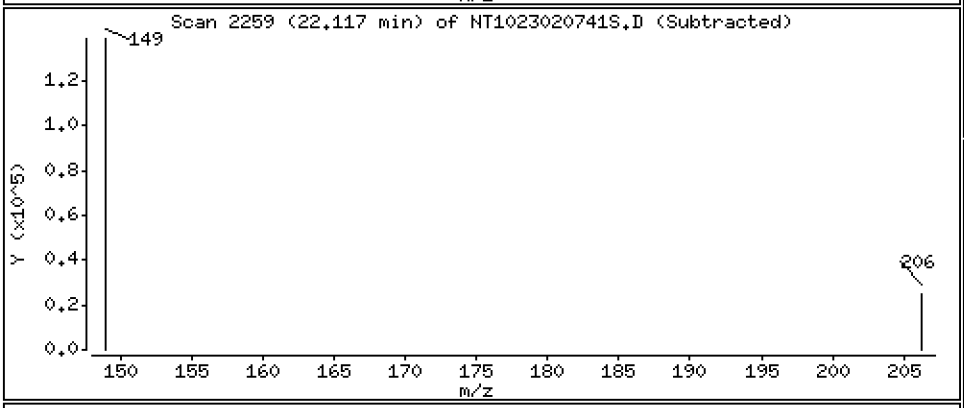
Column diameter: 0.25

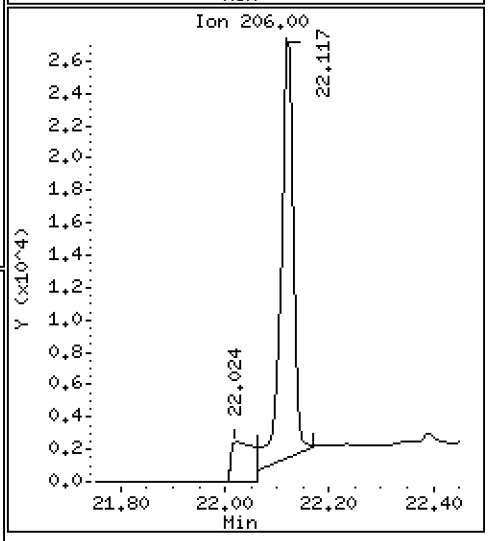
67 Butylbenzylphthalate

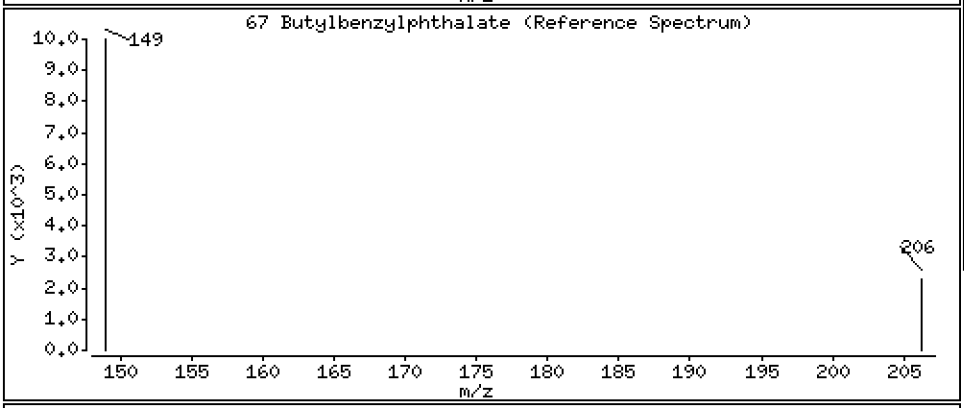
Concentration: 5.991 ug/L

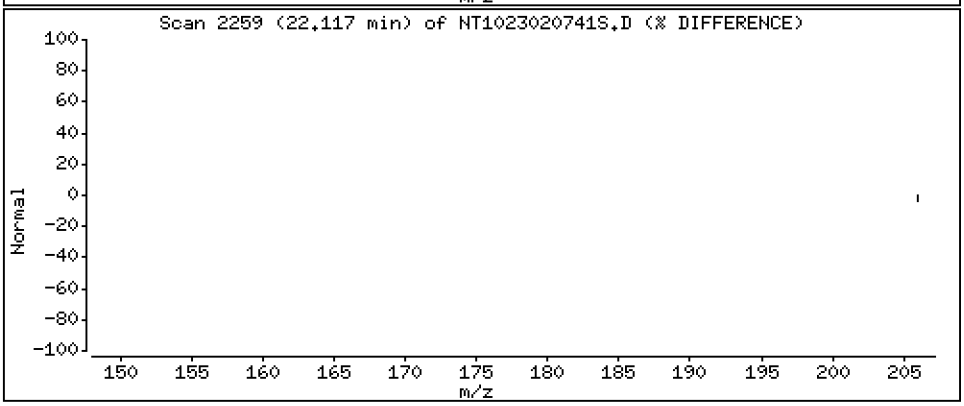












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020741S.D

Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

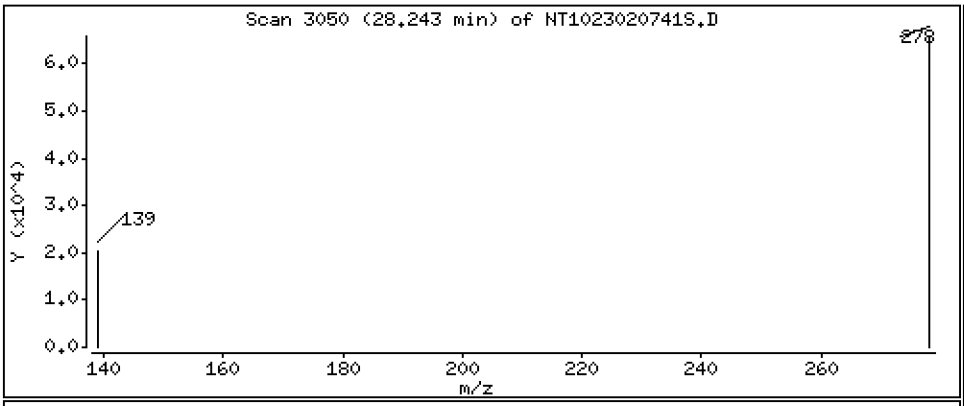
Operator: DSD

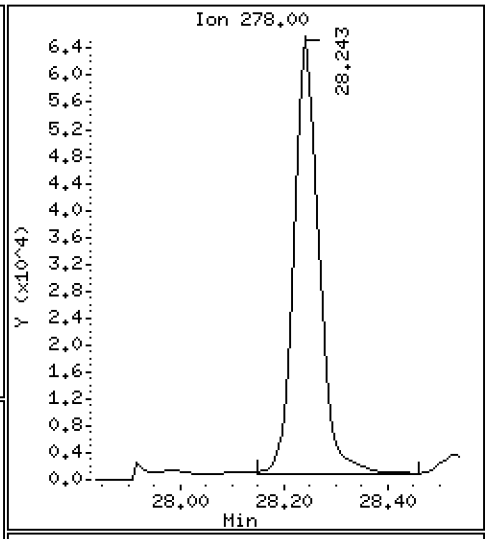
Column phase: ZB-5msi

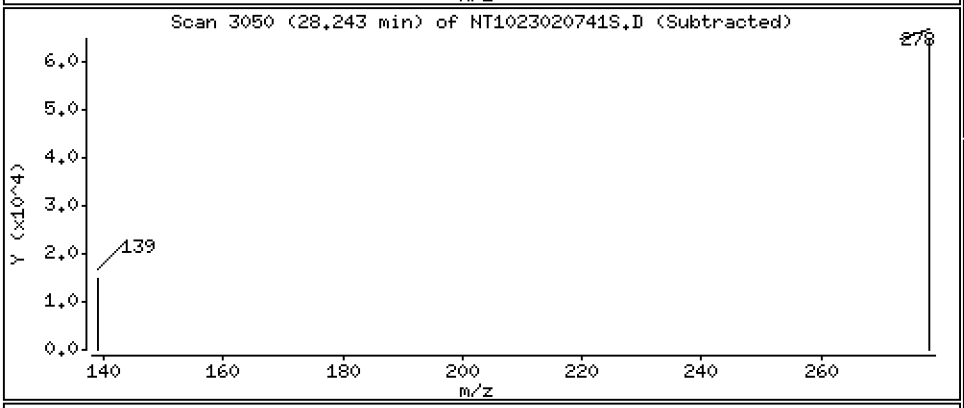
Column diameter: 0.25

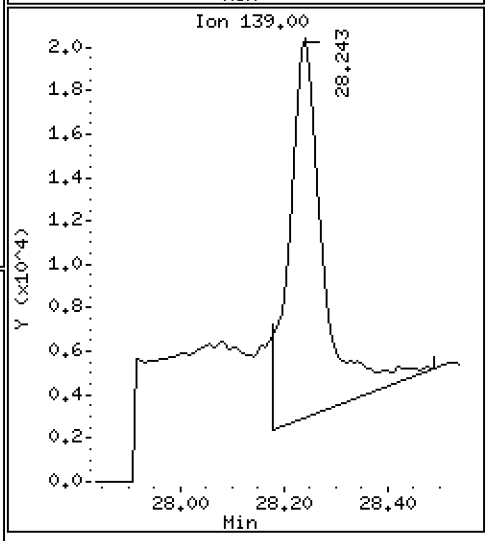
79 Dibenzo(a,h)anthracene

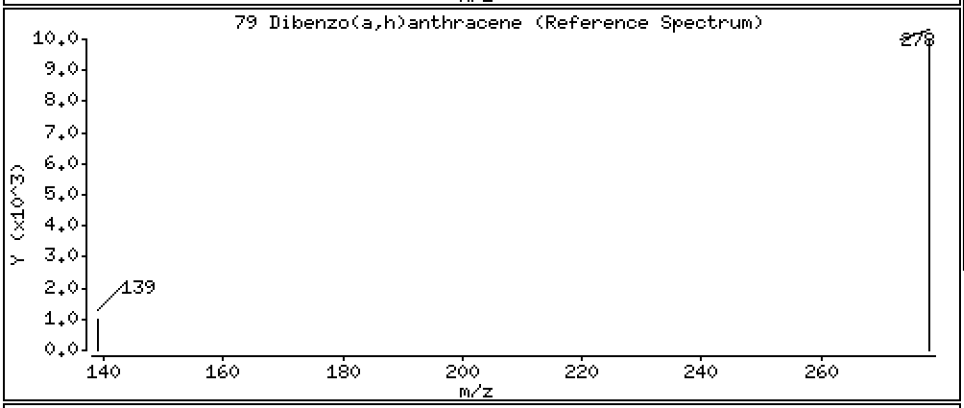
Concentration: 3.302 ug/L

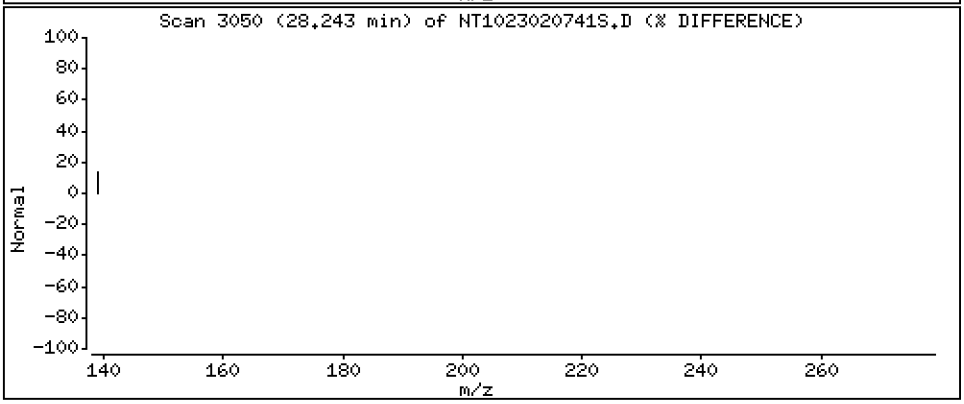












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 41S.D

Date : 08-FEB-2023 13:08

Client ID:

Instrument: nt10.i

Sample Info: BLA0064-MSD2

Volume Injected (uL): 1.0

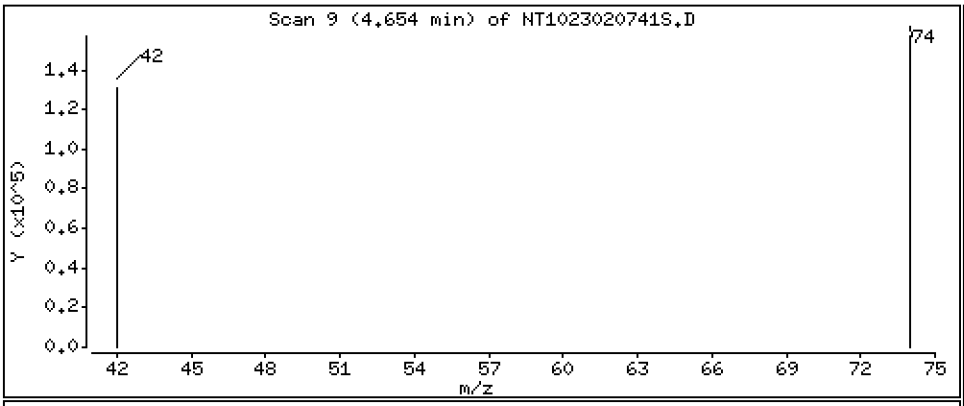
Operator: DSD

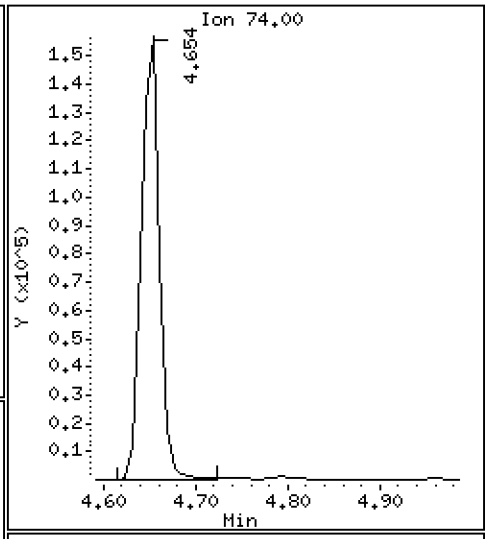
Column phase: ZB-5msi

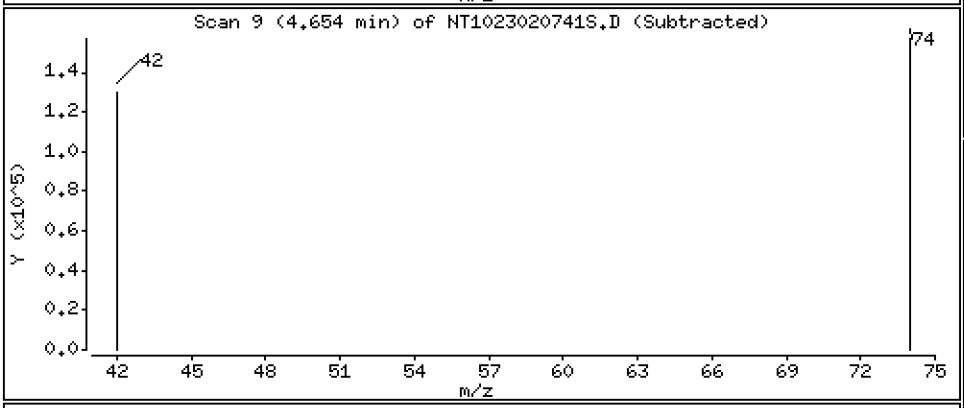
Column diameter: 0.25

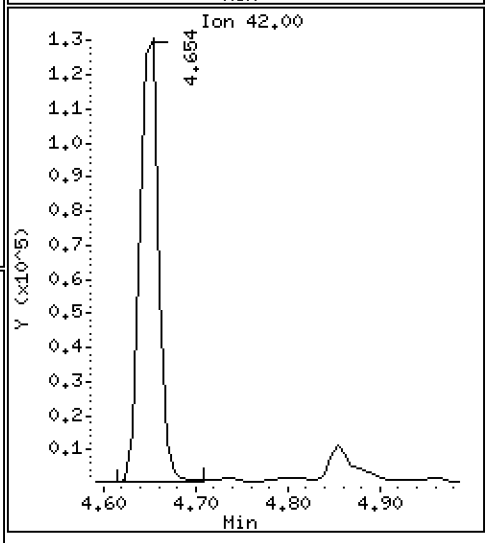
90 N-Nitrosodimethylamine

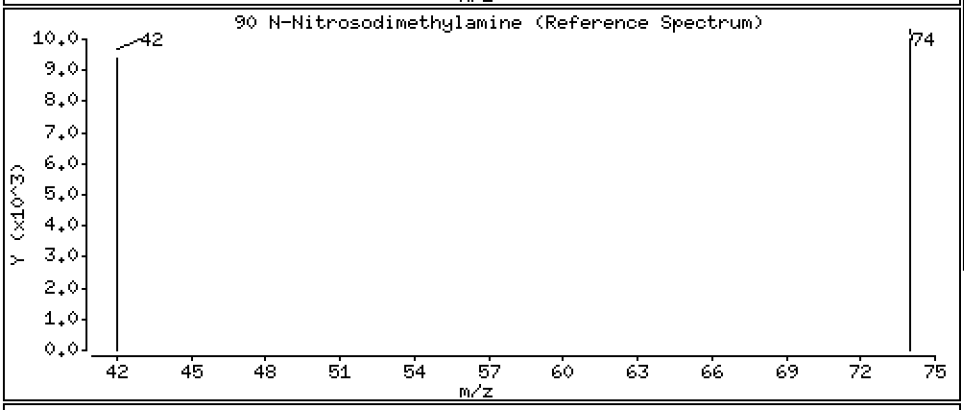
Concentration: 10.75 ug/L

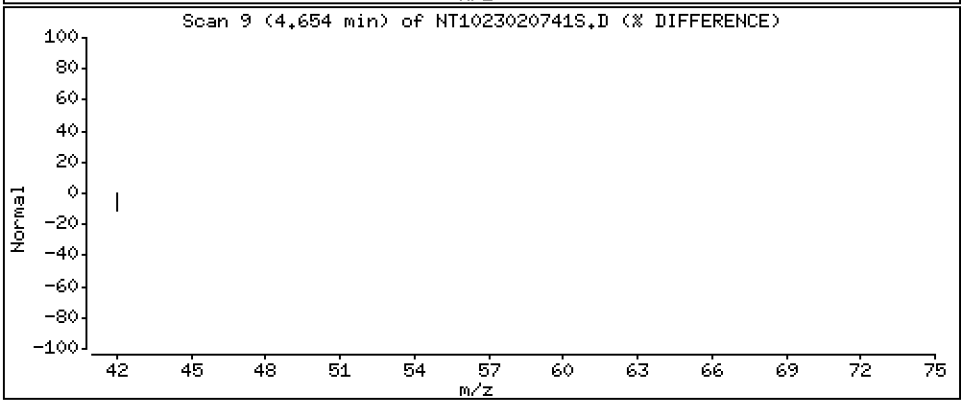












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020741S.D
Lab Smp Id: BLA0064-MSD2
Inj Date : 08-FEB-2023 13:08 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLA0064-MSD2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 14:58 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
$	1 2-Fluorophenol	112	6.792	6.777	(0.757)	171697	5.58115	5.581(R)
	3 Phenol	94	8.377	8.369	(0.934)	186362	4.01745	4.017
	7 1,3-Dichlorobenzene	146	8.910	8.902	(0.993)	137727	3.29687	3.297
*	8 1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	101164	4.00000	
	9 1,4-Dichlorobenzene	146	9.003	8.996	(1.003)	138658	3.39487	3.395
	11 Benzyl alcohol	79	9.244	9.236	(1.030)	112935	4.99057	4.991
	12 1,2-Dichlorobenzene	146	9.352	9.353	(1.042)	135840	3.40762	3.408
	13 2-Methylphenol	108	9.469	9.461	(1.055)	118196	3.73225	3.732
	15 4-Methylphenol	108	9.740	9.733	(1.086)	170874	5.29015	5.290
	16 N-Nitroso-di-n-propylamine	70	9.787	9.780	(1.091)	106264	4.60852	4.609
	22 2,4-Dimethylphenol	107	10.771	10.763	(0.943)	474817	13.9243	13.92
	24 Benzoic acid	105	10.983	10.924	(0.961)	259066	14.9957	15.00(H)
	26 1,2,4-Trichlorobenzene	180	11.349	11.342	(0.993)	116141	3.63363	3.634
*	27 Naphthalene-d8	136	11.427	11.427	(1.000)	388196	4.00000	
	30 Hexachlorobutadiene	225	11.828	11.829	(1.035)	63733	3.65210	3.652
	39 Dimethylphthalate	163	14.529	14.514	(0.968)	196205	4.55657	4.557
*	42 Acenaphthene-d10	162	15.017	15.009	(1.000)	184753	4.00000	
	50 Diethylphthalate	149	15.975	15.960	(1.064)	309848	4.77799	4.778
	54 N-Nitrosodiphenylamine	169	16.354	16.346	(0.907)	208825	3.74780	3.748
	57 Hexachlorobenzene	284	17.419	17.404	(0.966)	87746	3.70031	3.700

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.783	17.768	(0.986)	164162	16.5355	16.54
*	59 Phenanthrene-d10	188	18.038	18.023	(1.000)	337160	4.00000	
$	66 Terphenyl-d14	244	21.202	21.164	(0.918)	241581	4.36986	4.370(R)
	67 Butylbenzylphthalate	149	22.116	22.101	(0.957)	223866	5.99073	5.991
*	69 Chrysene-d12	240	23.107	23.069	(1.000)	249066	4.00000	
*	77 Perylene-d12	264	25.678	25.631	(1.000)	234870	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.242	28.188	(1.100)	217350	3.30198	3.302
	90 N-Nitrosodimethylamine	74	4.653	4.638	(0.519)	216711	10.7497	10.75

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020741S.D
Lab Smp Id: BLA0064-MSD2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	101164	-18.15
27 Naphthalene-d8	454738	227369	909476	388196	-14.63
42 Acenaphthene-d10	223117	111559	446234	184753	-17.19
59 Phenanthrene-d10	408770	204385	817540	337160	-17.52
69 Chrysene-d12	339328	169664	678656	249066	-26.60
77 Perylene-d12	382671	191336	765342	234870	-38.62

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	-0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	-0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.02	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.04	0.08
69 Chrysene-d12	23.07	22.57	23.57	23.11	0.17
77 Perylene-d12	25.63	25.13	26.13	25.68	0.18

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020741S.D

Lab ID: BLA0064-MSD2
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 13:08

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.961	0.956	0.0052	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020734S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Lab File ID:	NT1023020701S.D	Injection Date:	02/07/23
Instrument ID:	NT10	Injection Time:	11:54
Sequence:	SLB0106	Lab Sample ID:	SLB0106-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	60.5	PASS
70	Less than 2% of 69	0.483	PASS
197	Less than 2% of 198	0.49	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.86	PASS
365	1 - 100% of 198	2.39	PASS
441	Less than 150% of 443	74.8	PASS
442	1 - 200% of 198	47.5	PASS
443	15 - 24% of 442	19.4	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of 4,4'-DDT		
4,4'-DDT	Base peak, 100% relative abundance		

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Lab File ID:	NT1023020701S.D	Injection Date:	02/07/23
Instrument ID:	NT10	Injection Time:	11:54
Sequence:	SLB0106	Lab Sample ID:	SLB0106-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	60.5	PASS
70	Less than 2% of 69	0.483	PASS
197	Less than 2% of 198	0.49	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.86	PASS
365	1 - 100% of 198	2.39	PASS
441	Less than 150% of 443	74.8	PASS
442	1 - 200% of 198	47.5	PASS
443	15 - 24% of 442	19.4	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of 4,4'-DDT		
4,4'-DDT	Base peak, 100% relative abundance		

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SLB0106-TUN1	NT1023020701S.D	02/07/2023	11:54
Cal Standard	SLB0106-CAL8	NT1023020703S.D	02/07/2023	12:57
Cal Standard	SLB0106-CAL7	NT1023020704S.D	02/07/2023	13:35
Cal Standard	SLB0106-CAL6	NT1023020705S.D	02/07/2023	14:14
Cal Standard	SLB0106-CAL5	NT1023020706S.D	02/07/2023	14:52
Cal Standard	SLB0106-CAL4	NT1023020707S.D	02/07/2023	15:30
Cal Standard	SLB0106-CAL3	NT1023020708S.D	02/07/2023	16:09
Cal Standard	SLB0106-CAL2	NT1023020709S.D	02/07/2023	16:47
Cal Standard	SLB0106-CAL1	NT1023020710S.D	02/07/2023	17:25
Secondary Cal Check	SLB0106-SCV1	NT1023020711S.D	02/07/2023	18:04
Initial Cal Check	SLB0106-ICV1	NT1023020714S.D	02/07/2023	19:58
Low Cal Check	SLB0106-LCV1	NT1023020715S.D	02/07/2023	20:36
Blank	BLA0160-BLK3	NT1023020716S.D	02/07/2023	21:14
LCS	BLA0160-BS2	NT1023020717S.D	02/07/2023	21:52
LCS Dup	BLA0160-BSD2	NT1023020718S.D	02/07/2023	22:30
Reference	BLA0160-SRM2	NT1023020719S.D	02/07/2023	23:09
ZZZZZ	23A0031-01	NT1023020720S.D	02/07/2023	23:47
ZZZZZ	23A0031-02	NT1023020721S.D	02/08/2023	0:25
ZZZZZ	23A0031-03	NT1023020722S.D	02/08/2023	1:03
ZZZZZ	23A0031-04	NT1023020723S.D	02/08/2023	1:41
ZZZZZ	23A0031-05	NT1023020724S.D	02/08/2023	2:18
ZZZZZ	23A0031-06	NT1023020725S.D	02/08/2023	2:57
ZZZZZ	23A0031-07	NT1023020726S.D	02/08/2023	3:34
ZZZZZ	23A0031-08	NT1023020727S.D	02/08/2023	4:13
ZZZZZ	23A0031-09	NT1023020728S.D	02/08/2023	4:51
ZZZZZ	23A0031-10	NT1023020729S.D	02/08/2023	5:29

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E-SIM

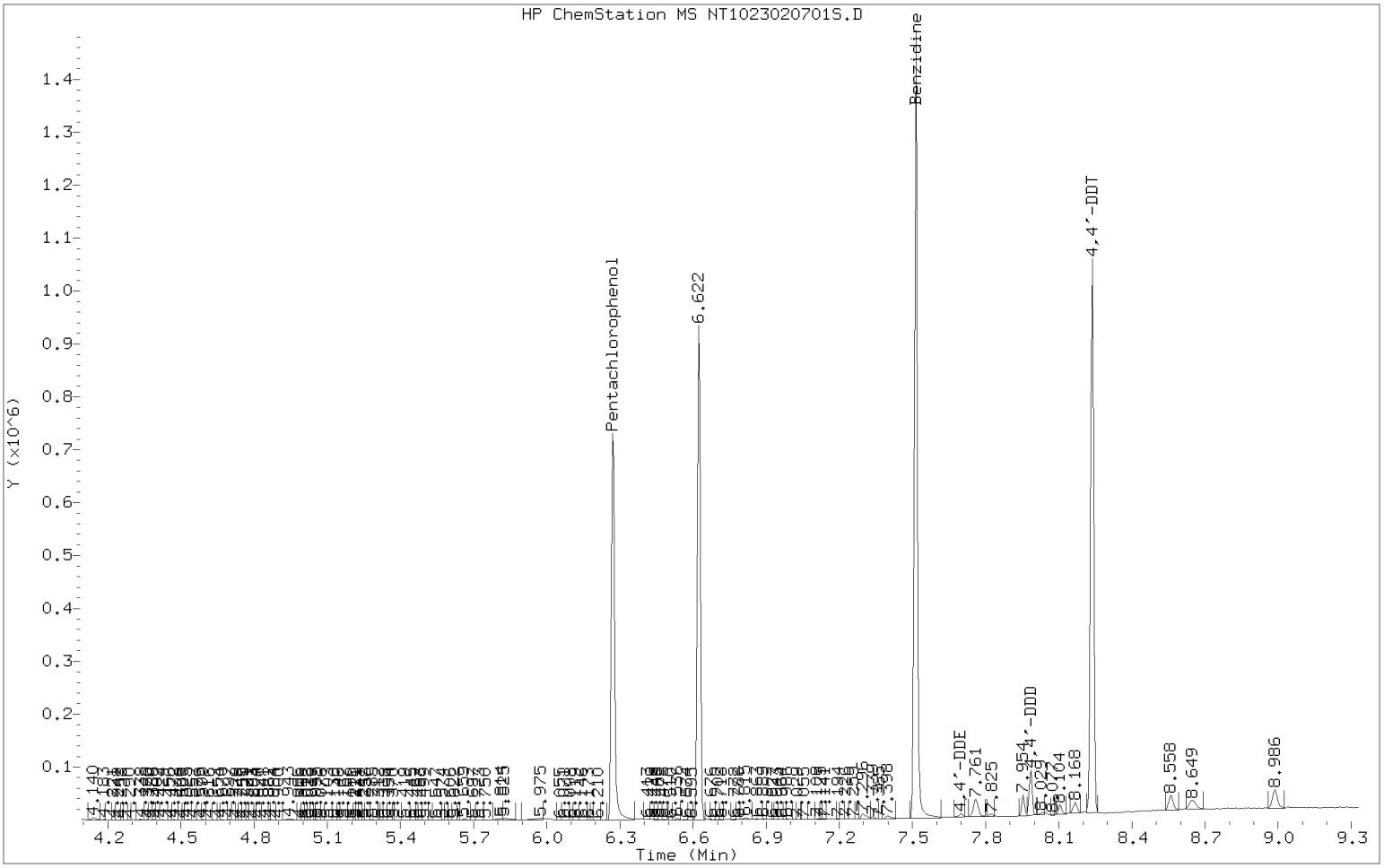
Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Lab File ID:	NT1023020701S.D	Injection Date:	02/07/23
Instrument ID:	NT10	Injection Time:	11:54
Sequence:	SLB0106	Lab Sample ID:	SLB0106-TUN1

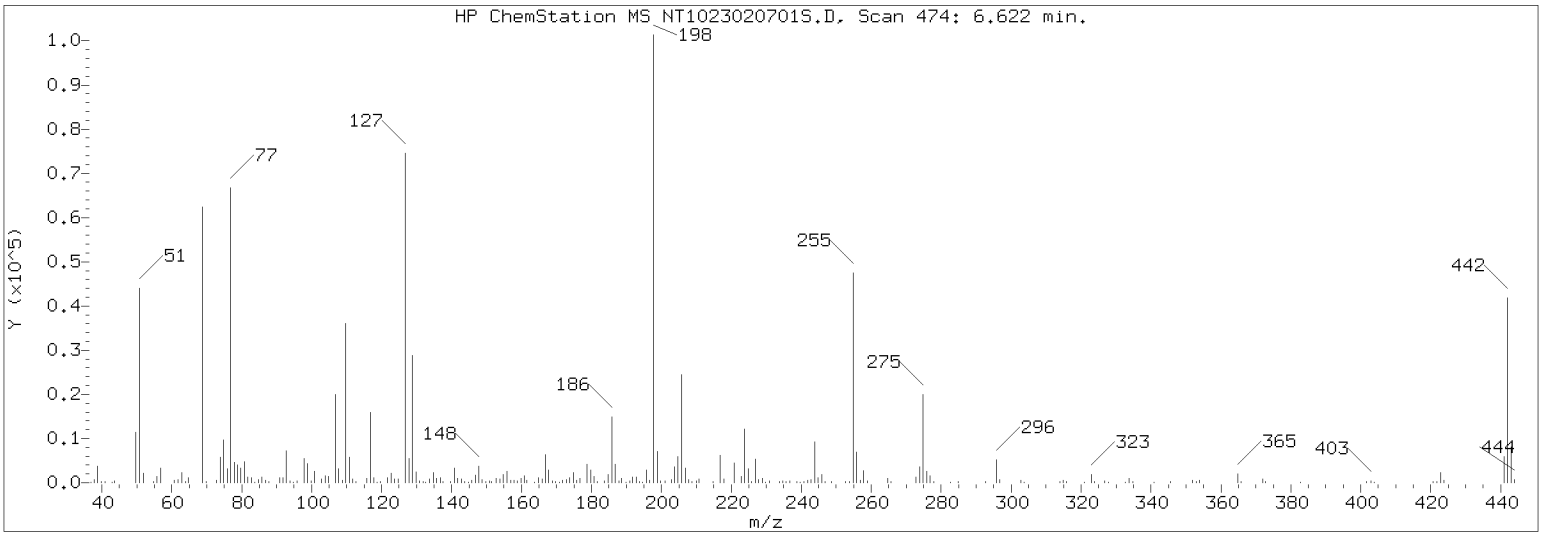
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	60.5	PASS
70	Less than 2% of 69	0.483	PASS
197	Less than 2% of 198	0.49	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.86	PASS
365	1 - 100% of 198	2.39	PASS
441	Less than 150% of 443	74.8	PASS
442	1 - 200% of 198	47.5	PASS
443	15 - 24% of 442	19.4	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of 4,4'-DDT		
4,4'-DDT	Base peak, 100% relative abundance		

ZZZZZ	23A0031-11	NT1023020730S.D	02/08/2023	6:07
ZZZZZ	23A0031-12	NT1023020731S.D	02/08/2023	6:45
Initial Cal Check	SLB0106-ICV2	NT1023020734S.D	02/08/2023	8:40
Blank	BLA0064-BLK2	NT1023020736S.D	02/08/2023	9:56
LCS	BLA0064-BS2	NT1023020737S.D	02/08/2023	10:35
LCS Dup	BLA0064-BSD2	NT1023020738S.D	02/08/2023	11:13
LDW23-SC1123B	22L0459-01	NT1023020739S.D	02/08/2023	11:51
Matrix Spike	BLA0064-MS2	NT1023020740S.D	02/08/2023	12:29
Matrix Spike Dup	BLA0064-MSD2	NT1023020741S.D	02/08/2023	13:08
LDW23-SC1053C	22L0459-02	NT1023020742S.D	02/08/2023	13:46
LDW23-SC1039C	22L0459-03	NT1023020743S.D	02/08/2023	14:25
LDW23-SC1007B	22L0459-04	NT1023020744S.D	02/08/2023	15:03
LDW23-SC1002C	22L0459-05	NT1023020745S.D	02/08/2023	15:41
LDW23-SC1070B	22L0459-06	NT1023020746S.D	02/08/2023	16:20
LDW23-SC1091B	22L0459-07	NT1023020747S.D	02/08/2023	16:58
Initial Cal Check	SLB0106-ICV3	NT1023020750S.D	02/08/2023	18:52
Blank	BLA0160-BLK4	NT1023020752S.D	02/08/2023	20:08
ZZZZZ	23A0031-13	NT1023020754S.D	02/08/2023	21:25
ZZZZZ	23A0031-14	NT1023020755S.D	02/08/2023	22:03
Matrix Spike	BLA0160-MS2	NT1023020756S.D	02/08/2023	22:41
Matrix Spike Dup	BLA0160-MSD2	NT1023020757S.D	02/08/2023	23:19
Calibration Check	SLB0106-CCV1	NT1023020760S.D	02/09/2023	1:13

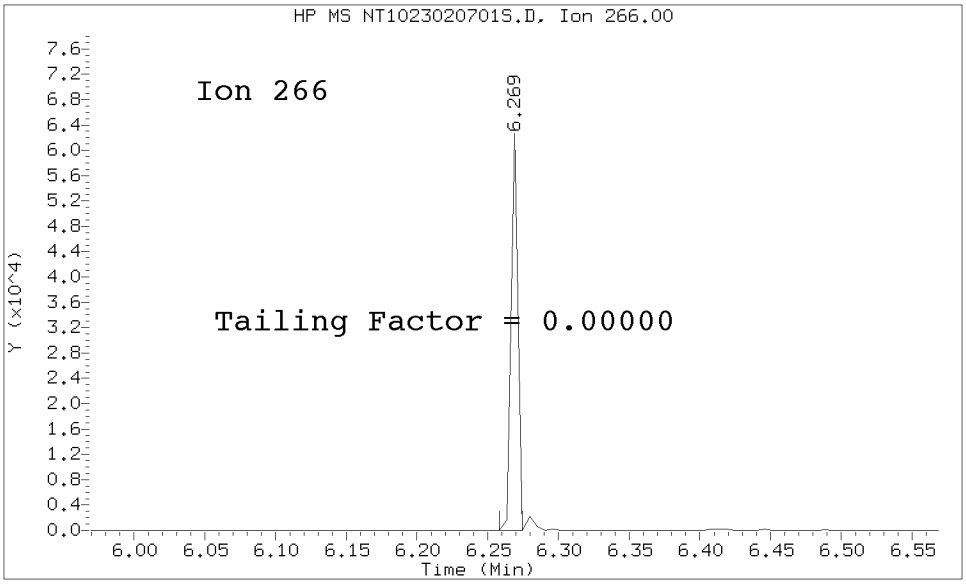
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230207.b/20230207.b/NT1023020701S.D/NT1023020701S.D
Method Used: \20230207.b\20230207.b\DFTPP8270E.m Inst: nt10
Injection Date: 07-FEB-2023 11:54 Operator: DSD
Sample Info: SLB0106-TUN1 SLB0106-TUN1
Report Date: 02/09/2023 12:56



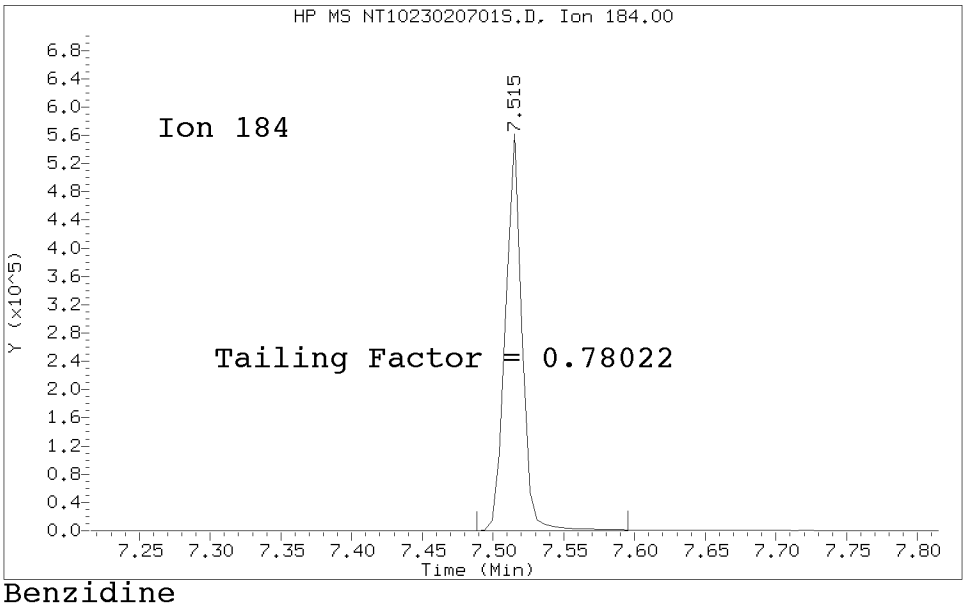


Datafile Analyzed: /20230207.b/20230207.b/NT1023020701S.D/NT1023020701S.D
Method Used: \20230207.b\20230207.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 07-FEB-2023 11:54 Operator: DSD
Sample Info: SEQ-TUN1
Report Date: 02/09/2023 12:56



Pentachlorophenol
==========
Exp. RT = 6.269
Found RT = 6.269

Tail Factor = 0.000 Maximum Allowed = 2.0



Benzidine
==========
Exp. RT = 7.515
Found RT = 7.515

Tail Factor = 0.780 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.0000000	2.000	PASS
Benzidine	0.7802198	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	149280			N/A
4,4-DDE	735	0.5	20.0	PASS
4,4-DDD	12536	7.7	20.0	PASS
4,4-DDD + DDE	13271	8.2	20.0	PASS

Tuning Sample, nt10.i/20230207.b/20230207.b/NT1023020701S.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	60.47
70	Less than 2.00% of mass 69	0.29 (0.48)
197	Less than 2.00% of mass 198	0.49
199	5.00 - 9.00% of mass 198	6.86
365	1.00 - 100.00% of mass 198	2.39
441	Less than 150.00% of mass 443	6.91 (74.79)
442	Less than 200.00% of mass 198	47.52
443	15.00 - 24.00% of mass 442	9.23 (19.43)

Data File: NT1023020701S.D
Spectrum: Avg. Scans 473-475 (6.62), Background Scan 468
Location of Maximum: 198.00
Number of points: 230

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	119	116.00	359	180.00	2190	254.00	118
38.00	475	117.00	11928	181.00	1080	255.00	37560
39.00	2852	118.00	862	182.00	148	256.00	5492
40.00	228	119.00	105	184.00	220	257.00	441
41.00	60	120.00	163	185.00	1473	258.00	2142
43.00	52	122.00	932	186.00	11286	259.00	374
44.00	19	123.00	1583	187.00	3200	265.00	861
49.00	199	124.00	690	188.00	636	266.00	153
50.00	8730	125.00	703	189.00	393	273.00	1096
51.00	32904	127.00	55096	190.00	58	274.00	2954
52.00	1756	128.00	4133	191.00	351	275.00	16094
55.00	283	129.00	21552	192.00	960	276.00	2062
56.00	1097	130.00	1846	193.00	1072	277.00	1379
57.00	2521	131.00	354	194.00	250	278.00	185
61.00	464	132.00	220	195.00	53	283.00	130
62.00	564	133.00	55	196.00	2314	284.00	59
63.00	1603	134.00	606	197.00	379	285.00	205
64.00	237	135.00	1785	198.00	77392	293.00	262
65.00	848	136.00	683	199.00	5312	296.00	4424
69.00	46800	137.00	996	200.00	419	297.00	608
70.00	226	138.00	76	201.00	374	302.00	75
73.00	286	140.00	245	203.00	595	303.00	429
74.00	4406	141.00	2462	204.00	2841	304.00	113
75.00	7199	142.00	1192	205.00	4572	314.00	253
76.00	2399	143.00	511	206.00	18736	315.00	423
77.00	49840	144.00	185	207.00	2575	316.00	233
78.00	3477	145.00	68	208.00	609	321.00	120
79.00	2952	146.00	430	209.00	199	323.00	1536
80.00	2464	147.00	1292	210.00	336	324.00	224
81.00	3558	148.00	2914	211.00	768	327.00	262
82.00	946	149.00	591	215.00	254	328.00	111
83.00	770	150.00	144	217.00	4805	333.00	112
84.00	191	151.00	589	218.00	615	334.00	892
85.00	584	153.00	789	221.00	3522	335.00	216
86.00	997	154.00	600	223.00	1075	341.00	125
87.00	447	155.00	1374	224.00	9658	346.00	270
88.00	140	156.00	1954	225.00	2516	352.00	368
91.00	854	157.00	519	226.00	114	353.00	232
92.00	848	158.00	446	227.00	4133	354.00	428
93.00	5377	159.00	293	228.00	597	365.00	1853
94.00	366	160.00	719	229.00	841	366.00	222
95.00	195	161.00	1289	230.00	64	371.00	50
96.00	333	162.00	174	231.00	384	372.00	649
98.00	4109	164.00	57	234.00	215	373.00	150
99.00	3213	165.00	910	235.00	397	383.00	160
100.00	283	166.00	717	236.00	100	402.00	209
101.00	1952	167.00	4756	237.00	321	403.00	396
103.00	639	168.00	2216	239.00	184	404.00	124
104.00	1244	169.00	394	240.00	63	421.00	262

105.00	1190	170.00	79	241.00	196	422.00	242
106.00	77	171.00	147	242.00	509	423.00	1998
107.00	14850	172.00	428	243.00	289	424.00	382
108.00	2302	173.00	510	244.00	7324	441.00	5344
109.00	279	174.00	899	245.00	989	442.00	36776
110.00	26472	175.00	1734	246.00	1436	443.00	7145
111.00	4139	176.00	479	247.00	288	444.00	677
112.00	545	177.00	846	249.00	228		
113.00	159	179.00	3266	253.00	167		

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00019	Instrument:	NT10
Calibration Date:	02/07/2023	Column (1):	ZB-5MSi

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
1,4-Dichlorobenzene	0.05	1.746853	0.1	1.824146	0.2	1.716999	0.5	1.644641	1	1.644952	2.5	1.438483
1,2-Dichlorobenzene	0.05	1.669075	0.1	1.760731	0.2	1.667808	0.5	1.606479	1	1.634269	2.5	1.411825
Benzyl Alcohol	0.05	0.6229253	0.1	0.8641461	0.2	0.9367905	0.5	0.833555	1	0.9600758	2.5	0.9355283
Benzoic acid					0.8	8.566733E-03	2	5.676729E-02	4	0.119262	10	0.1531063
2,4-Dimethylphenol	0.1	0.3465196	0.2	0.3862129	0.4	0.3773608	1	0.3774286	2	0.3776882	5	0.3233556
1,2,4-Trichlorobenzene	0.05	0.3447792	0.1	0.372557	0.2	0.3515607	0.5	0.3391428	1	0.3445313	2.5	0.2917329
N-Nitrosodiphenylamine	0.05	0.7055404	0.1	0.7523853	0.2	0.6919824	0.5	0.6814253	1	0.6964491	2.5	0.599221
Pentachlorophenol			0.2	1.561504E-02	0.4	3.010523E-02	1	6.365281E-02	2	9.115425E-02	5	9.408531E-02
2-Fluorophenol	0.075	1.044048	0.15	1.337668	0.3	1.310317	0.75	1.272772	1.5	1.301572	3.75	1.150276
p-Terphenyl-d14	0.05	0.9131011	0.1	0.9901217	0.2	0.940309	0.5	0.9119706	1	0.9287552	2.5	0.7799

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00019	Instrument:	NT10
Calibration Date:	02/07/2023	Column (1):	ZB-5MSi

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
1,4-Dichlorobenzene	5	1.453912	10	1.449533								
1,2-Dichlorobenzene	5	1.437155	10	1.422238								
Benzyl Alcohol	5	0.989421	10	1.015741								
Benzoic acid	20	0.1943862	40	0.2347868								
2,4-Dimethylphenol	10	0.3258606	20	0.2965172								
1,2,4-Trichlorobenzene	5	0.2954888	10	0.2949844								
N-Nitrosodiphenylamine	5	0.5876583	10	0.57369								
Pentachlorophenol	10	0.1119245	20	0.1245814								
2-Fluorophenol	7.5	1.184621	15	1.129849								
p-Terphenyl-d14	5	0.7926175	10	0.8460514								

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00019	Instrument:	NT10
Calibration Date:	02/07/2023	Column (1):	ZB-5MSi

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
1,4-Dichlorobenzene	1.61494	9.3			RSD (15)	
1,2-Dichlorobenzene	1.576198	8.5			RSD (15)	
Benzyl Alcohol	0.8947729	14.0			RSD (15)	
Benzoic acid	0.1278126	66.3		0.9953	QCOD (0.99)	
2,4-Dimethylphenol	0.3513679	9.5			RSD (15)	
1,2,4-Trichlorobenzene	0.3293471	9.4			RSD (15)	
N-Nitrosodiphenylamine	0.661044	9.9			RSD (15)	
Pentachlorophenol	7.587408E-02	54.1		0.9984	QCOD (0.99)	
2-Fluorophenol	1.21639	8.6			RSD (15)	
p-Terphenyl-d14	0.8878533	8.4			RSD (15)	

ANALYSIS SEQUENCE

SLB0106

Instrument ID: NT10
Calibration ID: GB00019
MS EM Level: 1000 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L000749

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLB0106-TUN1	MS Tune	QC		1	K008469		02/07/2023 11:54	NT1023020701S.D	DSD	
SLB0106-CAL8	CAL 10.0	QC		2	K011110	K010831	02/07/2023 12:57	NT1023020703S.D	DSD	
SLB0106-CAL7	CAL 5.0	QC		3	K011109	K010831	02/07/2023 13:35	NT1023020704S.D	DSD	
SLB0106-CAL6	CAL 2.5	QC		4	K011108	K010831	02/07/2023 14:14	NT1023020705S.D	DSD	
SLB0106-CAL5	CAL 1.0	QC		5	K011107	K010831	02/07/2023 14:52	NT1023020706S.D	DSD	
SLB0106-CAL4	CAL 0.50	QC		6	K011106	K010831	02/07/2023 15:30	NT1023020707S.D	DSD	
SLB0106-CAL3	CAL 0.20	QC		7	K011105	K010831	02/07/2023 16:09	NT1023020708S.D	DSD	
SLB0106-CAL2	CAL 0.10	QC		8	K011452	K010831	02/07/2023 16:47	NT1023020709S.D	DSD	
SLB0106-CAL1	CAL 0.05	QC		9	K011453	K010831	02/07/2023 17:25	NT1023020710S.D	DSD	
SLB0106-SCV1	SCV 5.0	QC		10	K010066	K010831	02/07/2023 18:04	NT1023020711S.D	DSD	
SLB0106-ICV1	Initial Cal Check	QC		11	K011107	K010831	02/07/2023 19:58	NT1023020714S.D	DSD	
SLB0106-LCV1	LCV 0.1	QC		12	K011452	K010831	02/07/2023 20:36	NT1023020715S.D	DSD	
BLA0160-BLK3	Blank	QC		13		K010831	02/07/2023 21:14	NT1023020716S.D	DSD	
BLA0160-BS2	LCS	QC		14		K010831	02/07/2023 21:52	NT1023020717S.D	DSD	
BLA0160-BSD2	LCS Dup	QC		15		K010831	02/07/2023 22:30	NT1023020718S.D	DSD	
BLA0160-SRM2	Reference	QC		16		K010831	02/07/2023 23:09	NT1023020719S.D	DSD	
23A0031-01	LDW23-SS1002	270E-SIM Dual Scan SVO	A 01	17		K010831	02/07/2023 23:47	NT1023020720S.D	DSD	
23A0031-02	LDW23-SS1001	270E-SIM Dual Scan SVO	A 01	18		K010831	02/08/2023 00:25	NT1023020721S.D	DSD	
23A0031-03	LDW23-SS1199	270E-SIM Dual Scan SVO	A 01	19		K010831	02/08/2023 01:03	NT1023020722S.D	DSD	
23A0031-04	LDW23-SS1199-FD	270E-SIM Dual Scan SVO	A 01	20		K010831	02/08/2023 01:41	NT1023020723S.D	DSD	
23A0031-05	LDW23-SS1191	270E-SIM Dual Scan SVO	A 01	21		K010831	02/08/2023 02:18	NT1023020724S.D	DSD	
23A0031-06	LDW23-SS1191-FD	270E-SIM Dual Scan SVO	A 01	22		K010831	02/08/2023 02:57	NT1023020725S.D	DSD	

ANALYSIS SEQUENCE

SLB0106

Instrument ID: NT10
Calibration ID: GB00019
MS EM Level: 1000 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L000749

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
23A0031-07	LDW23-SS1177	270E-SIM Dual Scan SVO	A 01	23		K010831	02/08/2023 03:34	NT1023020726S.D	DSD	
23A0031-08	LDW23-SS1177-FD	270E-SIM Dual Scan SVO	A 01	24		K010831	02/08/2023 04:13	NT1023020727S.D	DSD	
23A0031-09	LDW23-SS1156	270E-SIM Dual Scan SVO	A 01	25		K010831	02/08/2023 04:51	NT1023020728S.D	DSD	
23A0031-10	LDW23-SS1156-FD	270E-SIM Dual Scan SVO	A 01	26		K010831	02/08/2023 05:29	NT1023020729S.D	DSD	
23A0031-11	LDW23-SS1143	270E-SIM Dual Scan SVO	A 01	27		K010831	02/08/2023 06:07	NT1023020730S.D	DSD	
23A0031-12	LDW23-SS1143-FD	270E-SIM Dual Scan SVO	A 01	28		K010831	02/08/2023 06:45	NT1023020731S.D	DSD	
SLB0106-ICV2	ABN 1	QC		29	K011107	K010831	02/08/2023 08:40	NT1023020734S.D	DSD	
BLA0064-BLK2	Blank	QC		30		K010831	02/08/2023 09:56	NT1023020736S.D	DSD	
BLA0064-BS2	LCS	QC		31		K010831	02/08/2023 10:35	NT1023020737S.D	DSD	
BLA0064-BSD2	LCS Dup	QC		32		K010831	02/08/2023 11:13	NT1023020738S.D	DSD	
22L0459-01	LDW23-SC1123B	270E-SIM Dual Scan SVO	A 01	33		K010831	02/08/2023 11:51	NT1023020739S.D	DSD	
BLA0064-MS2	Matrix Spike	QC		34		K010831	02/08/2023 12:29	NT1023020740S.D	DSD	
BLA0064-MSD2	Matrix Spike Dup	QC		35		K010831	02/08/2023 13:08	NT1023020741S.D	DSD	
22L0459-02	LDW23-SC1053C	270E-SIM Dual Scan SVO	A 01	36		K010831	02/08/2023 13:46	NT1023020742S.D	DSD	
22L0459-03	LDW23-SC1039C	270E-SIM Dual Scan SVO	A 01	37		K010831	02/08/2023 14:25	NT1023020743S.D	DSD	
22L0459-04	LDW23-SC1007B	270E-SIM Dual Scan SVO	A 01	38		K010831	02/08/2023 15:03	NT1023020744S.D	DSD	
22L0459-05	LDW23-SC1002C	270E-SIM Dual Scan SVO	A 01	39		K010831	02/08/2023 15:41	NT1023020745S.D	DSD	
22L0459-06	LDW23-SC1070B	270E-SIM Dual Scan SVO	A 01	40		K010831	02/08/2023 16:20	NT1023020746S.D	DSD	
22L0459-07	LDW23-SC1091B	270E-SIM Dual Scan SVO	A 01	41		K010831	02/08/2023 16:58	NT1023020747S.D	DSD	
SLB0106-ICV3	ABN 1	QC		42	K011107	K010831	02/08/2023 18:52	NT1023020750S.D	DSD	
BLA0160-BLK4	Blank	QC		43			02/08/2023 20:08	NT1023020752S.D	DSD	
23A0031-13	LDW23-SS1137	270E-SIM Dual Scan SVO	A 01	44		K010831	02/08/2023 21:25	NT1023020754S.D	DSD	

ANALYSIS SEQUENCE

SLB0106

Instrument ID: NT10
Calibration ID: GB00019
MS EM Level: 1000 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L000749

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
23A0031-14	LDW23-SS1138	270E-SIM Dual Scan SVO	A 01	45		K010831	02/08/2023 22:03	NT1023020755S.D	DSD	
BLA0160-MS2	Matrix Spike	QC		46		K010831	02/08/2023 22:41	NT1023020756S.D	DSD	
BLA0160-MSD2	Matrix Spike Dup	QC		47		K010831	02/08/2023 23:19	NT1023020757S.D	DSD	
SLB0106-CCV1	ABN 1	QC		48	K011107	K010831	02/09/2023 01:13	NT1023020760S.D	DSD	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b

	Time	Filename	LabID	ClientId	DF											
1	1154	NT1023020701S.D	SLB0106-TUN1		1	|NO ISTDS FOUND||										
2	1218	NT1023020702S.D			1	|NO ISTDS FOUND||										
3	1257	NT1023020703S.D	SLB0106-CAL8		1	| 8.96	127627||11.43	477552||15.01	233486||18.02	439772||23.07	343972||25.62	368450|				
4	1335	NT1023020704S.D	SLB0106-CAL7		1	| 8.96	117157||11.42	443872||15.00	226196||18.02	406281||23.07	352619||25.62	360424|				
5	1414	NT1023020705S.D	SLB0106-CAL6		1	| 8.96	120943||11.42	451498||15.00	230284||18.02	411788||23.07	362547||25.62	370447|				
6	1452	NT1023020706S.D	SLB0106-CAL5		1	| 8.96	128794||11.42	469043||15.00	233225||18.02	433858||23.06	361809||25.62	380407|				
7	1530	NT1023020707S.D	SLB0106-CAL4		1	| 8.97	134585||11.42	492819||15.00	241419||18.02	453837||23.06	377942||25.62	396018|				
8	1609	NT1023020708S.D	SLB0106-CAL3		1	| 8.96	110996||11.42	400386||15.00	198387||18.02	365385||23.06	297264||25.62	312718|				
9	1647	NT1023020709S.D	SLB0106-CAL2		1	| 8.96	136875||11.42	493562||15.00	242772||18.02	447005||23.06	366662||25.62	385910|				
10	1725	NT1023020710S.D	SLB0106-CAL1		1	| 8.97	114171||11.42	413714||15.00	201294||18.02	378490||23.06	311028||25.62	320643|				
11	1804	NT1023020711S.D	SLB0106-SCV1		1	| 8.97	121574||11.42	457304||15.01	231625||18.02	412906||23.07	357298||25.62	361150|				
12	1842	NT1023020712S.D			1	|NO ISTDS FOUND||										
13	1920	NT1023020713S.D	SEQ-LCV1		1	| 8.96	127448||11.42	459191||15.00	228840||18.02	413751||23.06	342486||25.62	357565|				
14	1958	NT1023020714S.D	SLB0106-ICV1		1	| 8.97	127975||11.42	464967||15.00	234978||18.02	431277||23.07	358788||25.62	370755|				
15	2036	NT1023020715S.D	SLB0106-LCV1		1	| 8.96	137052||11.42	493177||15.00	243620||18.02	446506||23.06	370022||25.62	388403|				
16	2114	NT1023020716S.D	BLA0160-BLK3		1	| 8.97	110723||11.42	402412||15.00	198377||18.02	367157||23.06	298048||25.62	282205|				
17	2152	NT1023020717S.D	BLA0160-BS2		1	| 8.97	110807||11.42	403307||15.01	202270||18.02	373870||23.07	306885||25.62	305930|				
18	2230	NT1023020718S.D	BLA0160-BSD2		1	| 8.96	112259||11.42	411473||15.01	204242||18.02	378986||23.07	304094||25.62	300628|				
19	2309	NT1023020719S.D	BLA0160-SRM2		1	| 8.96	112114||11.42	410278||15.00	203758||18.02	385638||23.07	301014||25.62	290133|				
20	2347	NT1023020720S.D	23A0031-01		1	| 8.96	107965||11.42	398657||15.00	196682||18.02	351390||23.07	270613||25.62	328913|				

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b

	Time	Filename	LabID	ClientId	DF												
21	0025	NT1023020721S.D	23A0031-02		1	8.97	112022	11.42	417387	15.01	206013	18.02	383214	23.07	283048	25.63	338155
22	0103	NT1023020722S.D	23A0031-03		1	8.96	100015	11.42	372094	15.00	180738	18.02	329551	23.07	244901	25.63	299557
23	0141	NT1023020723S.D	23A0031-04		1	8.97	109315	11.42	410277	15.01	199704	18.02	372823	23.07	275317	25.63	325043
24	0218	NT1023020724S.D	23A0031-05		1	8.97	102071	11.42	380853	15.01	187319	18.02	346716	23.07	258406	25.63	308547
25	0257	NT1023020725S.D	23A0031-06		1	8.97	104003	11.43	387135	15.01	189939	18.02	361779	23.07	267322	25.63	309509
26	0334	NT1023020726S.D	23A0031-07		1	8.97	98993	11.42	371726	15.01	181917	18.02	336826	23.08	253244	25.63	298568
27	0413	NT1023020727S.D	23A0031-08		1	8.97	104338	11.43	394877	15.01	194034	18.02	358656	23.08	274629	25.64	313774
28	0451	NT1023020728S.D	23A0031-09		1	8.97	103917	11.43	394505	15.01	191584	18.02	355293	23.08	276147	25.65	297452
29	0529	NT1023020729S.D	23A0031-10		1	8.97	106518	11.43	402507	15.01	194380	18.03	358489	23.08	281548	25.65	300684
30	0607	NT1023020730S.D	23A0031-11		1	8.97	92717	11.43	351247	15.01	166081	18.02	312170	23.08	243505	25.63	275249
31	0645	NT1023020731S.D	23A0031-12		1	8.97	89897	11.43	337409	15.01	161506	18.02	297891	23.08	238544	25.64	263371
32	0724	NT1023020732S.D	SEQ-ICV2		1	8.97	115715	11.43	441080	15.01	220681	18.02	400233	23.08	345619	25.63	382335
33	0802	NT1023020733S.D	SEQ-LCV2		1	8.97	120550	11.43	440099	15.01	211763	18.02	390655	23.07	319612	25.62	370093
34	0840	NT1023020734S.D	SLB0106-ICV2		1	8.97	123596	11.43	454738	15.01	223117	18.02	408770	23.07	339328	25.63	382671
35	0918	NT1023020735S.D	SLB0106-LCV2		1	8.97	136631	11.43	494473	15.01	239109	18.02	436435	23.07	359093	25.63	406370
36	0956	NT1023020736S.D	BLA0064-BLK3		1	8.97	120344	11.43	445549	15.01	215301	18.02	395423	23.07	318273	25.62	350817
37	1035	NT1023020737S.D	BLA0064-BS2		1	8.97	89632	11.43	356743	15.01	180593	18.02	334413	23.07	273402	25.62	304782
38	1113	NT1023020738S.D	BLA0064-BSD2		1	8.97	107414	11.43	407123	15.01	201603	18.02	368890	23.07	298075	25.62	333508
39	1151	NT1023020739S.D	22L0459-01		1	8.97	110965	11.43	424736	15.01	204070	18.03	369495	23.09	284476	25.66	290541
40	1229	NT1023020740S.D	BLA0064-MS2		1	8.97	113976	11.43	432968	15.02	207269	18.03	379712	23.11	262267	25.68	260261
41	1308	NT1023020741S.D	BLA0064-MSD2		1	8.97	101164	11.43	388196	15.02	184753	18.04	337160	23.11	249066	25.68	234870

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b

	Time	Filename	LabID	ClientId	DF											
42	1346	NT1023020742S.D	22L0459-02		1	8.97	100891	11.43	392038	15.01	184063	18.03	341544	23.09	262324	25.67	250582
43	1425	NT1023020743S.D	22L0459-03		1	8.97	104328	11.43	406627	15.02	190468	18.04	354546	23.11	237446	25.69	215820
44	1503	NT1023020744S.D	22L0459-04		1	8.97	93235	11.43	366510	15.02	172531	18.03	323195	23.09	243552	25.66	225418
45	1541	NT1023020745S.D	22L0459-05		1	8.97	87773	11.43	343641	15.02	161215	18.04	299100	23.10	225102	25.69	189075
46	1620	NT1023020746S.D	22L0459-06		1	8.97	89484	11.43	348042	15.02	160019	18.04	301023	23.11	230142	25.69	184992
47	1658	NT1023020747S.D	22L0459-07		1	8.97	87825	11.43	345632	15.02	161330	18.04	302095	23.10	221246	25.67	188691
48	1736	NT1023020748S.D	SEQ-ICV3		1	8.97	85503	11.43	322816	15.02	162377	18.03	296201	23.08	269910	25.65	230520
49	1814	NT1023020749S.D	SEQ-LCV3		1	8.97	92311	11.43	336993	15.02	159967	18.03	300791	23.08	265211	25.64	229502
50	1852	NT1023020750S.D	SLB0106-ICV3		1	8.97	95705	11.43	353101	15.02	170881	18.03	321878	23.08	279976	25.65	238134
51	1931	NT1023020751S.D	SLB0106-LCV2		1	8.97	106466	11.43	387137	15.02	180160	18.03	334996	23.08	298320	25.64	251310
52	2008	NT1023020752S.D	BLA0160-BLK4		1	8.97	76782	11.43	288603	15.02	136246	18.03	252608	23.08	216105	25.64	173878
53	2047	NT1023020753S.D	23A0031-12		1	8.97	67580	11.43	252826	15.02	121531	18.03	222356	23.08	185834	25.65	164863
54	2125	NT1023020754S.D	23A0031-13		1	8.97	62896	11.43	238179	15.02	113969	18.03	207414	23.08	169045	25.66	154288
55	2203	NT1023020755S.D	23A0031-14		1	8.97	65989	11.43	251708	15.02	121538	18.03	225060	23.08	180743	25.65	162217
56	2241	NT1023020756S.D	BLA0160-MS1		1	8.97	67342	11.43	253069	15.02	124418	18.04	231566	23.09	187881	25.66	166627
57	2319	NT1023020757S.D	BLA0160-MSD1		1	8.97	62997	11.43	237770	15.02	116238	18.04	216331	23.08	175285	25.66	153226
58	2357	NT1023020758S.D	SEQ-CCV1		1	8.97	87868	11.44	331321	15.02	168992	18.03	309546	23.08	279182	25.65	221462
59	0035	NT1023020759S.D	SEQ-LCV1		1	8.97	93356	11.43	344344	15.02	165502	18.03	307169	23.08	266666	25.65	211167
60	0113	NT1023020760S.D	SLB0106-CCV1		1	8.97	95964	11.43	350716	15.02	174033	18.03	317531	23.08	279383	25.66	215378
61	0151	NT1023020761S.D	SIM-LCV1		1	8.97	107874	11.43	389989	15.02	183546	18.04	339249	23.08	301426	25.66	229883

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b

Instrument: nt10.i Date: 07-FEB-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
1154	NT1023020701S.D	SLB0106-TUN1	1	NO MANUAL INTEGRATION
1218	NT1023020702S.D		1	NO MANUAL INTEGRATION
1257	NT1023020703S.D	SLB0106-CAL8	1	NO MANUAL INTEGRATION
1335	NT1023020704S.D	SLB0106-CAL7	1	NO MANUAL INTEGRATION
1414	NT1023020705S.D	SLB0106-CAL6	1	NO MANUAL INTEGRATION
1452	NT1023020706S.D	SLB0106-CAL5	1	NO MANUAL INTEGRATION
1530	NT1023020707S.D	SLB0106-CAL4	1	NO MANUAL INTEGRATION
1609	NT1023020708S.D	SLB0106-CAL3	1	Benzoic acid, Pentachlorophenol,
1647	NT1023020709S.D	SLB0106-CAL2	1	Pentachlorophenol,
1725	NT1023020710S.D	SLB0106-CAL1	1	Hexachlorobutadiene, Benzyl alcohol, N-Nitroso-di-n-propylamine, Hexachlorobenzene, Pentachlorophenol, Dibenzo Butylbenzylphthalate,
1804	NT1023020711S.D	SLB0106-SCV1	1	NO MANUAL INTEGRATION
1842	NT1023020712S.D		1	NO MANUAL INTEGRATION
1920	NT1023020713S.D	SEQ-LCV1	1	NO MANUAL INTEGRATION
1958	NT1023020714S.D	SLB0106-ICV1	1	NO MANUAL INTEGRATION
2036	NT1023020715S.D	SLB0106-LCV1	1	Benzyl alcohol, N-Nitroso-di-n-propylamine, Pentachlorophenol,
2114	NT1023020716S.D	BLA0160-BLK3	1	NO MANUAL INTEGRATION
2152	NT1023020717S.D	BLA0160-BS2	1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b page

Instrument: nt10.i Date: 07-FEB-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
2230	NT1023020718S.D	BLA0160-BSD2	1	NO MANUAL INTEGRATION
2309	NT1023020719S.D	BLA0160-SRM2	1	NO MANUAL INTEGRATION
2347	NT1023020720S.D	23A0031-01	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 2,4-Dimethylphenol, Dimethylphthalate, Diethylphthalate, Butylbenzyl
0025	NT1023020721S.D	23A0031-02	1	1,4-Dichlorobenzene, Dimethylphthalate, Diethylphthalate, Butylbenzylphthalate,
0103	NT1023020722S.D	23A0031-03	1	1,4-Dichlorobenzene, Benzoic acid, Dimethylphthalate, Pentachlorophenol, Butylbenzylphthalate,
0141	NT1023020723S.D	23A0031-04	1	1,4-Dichlorobenzene, Dimethylphthalate, Pentachlorophenol, Butylbenzylphthalate,
0218	NT1023020724S.D	23A0031-05	1	1,4-Dichlorobenzene, Benzoic acid, Diethylphthalate, Pentachlorophenol, Butylbenzylphthalate,
0257	NT1023020725S.D	23A0031-06	1	1,4-Dichlorobenzene, Benzoic acid, Diethylphthalate, Pentachlorophenol, Butylbenzylphthalate,
0334	NT1023020726S.D	23A0031-07	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Methylphenol, Benzoic acid, Dimethylphthalate, Diethylphthalate, Pentachlorophenol, Butylbenzylphthalate,
0413	NT1023020727S.D	23A0031-08	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Benzoic acid, Dimethylphthalate, Diethylphthalate, Pentachlorophenol Butylbenzylphthalate,
0451	NT1023020728S.D	23A0031-09	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzoic acid, Dimethylphthalate, Diethylphthalate, Pentachlorophenol Dibenzo(a,h)anthracene, Butylbenzylphthalate,
0529	NT1023020729S.D	23A0031-10	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Dimethylphthalate, Diethylphthalate, Pentachlorophenol, Dibenzo(a,h) Butylbenzylphthalate,
0607	NT1023020730S.D	23A0031-11	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzoic acid, Dimethylphthalate, Pentachlorophenol, Butylbenzylphtha
0645	NT1023020731S.D	23A0031-12	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Dimethylphthalate, Diethylphthalate, Pentachlorophenol, Butylbenzylp
0724	NT1023020732S.D	SEQ-ICV2	1	NO MANUAL INTEGRATION
0802	NT1023020733S.D	SEQ-LCV2	1	NO MANUAL INTEGRATION
0840	NT1023020734S.D	SLB0106-ICV2	1	NO MANUAL INTEGRATION
0918	NT1023020735S.D	SLB0106-LCV2	1	Pentachlorophenol,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b page

Instrument: nt10.i Date: 08-FEB-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
0956	NT1023020736S.D	BLA0064-BLK3	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Dimethylphthalate,
1035	NT1023020737S.D	BLA0064-BS2	1	Benzoic acid,
1113	NT1023020738S.D	BLA0064-BSD2	1	NO MANUAL INTEGRATION
1151	NT1023020739S.D	22L0459-01	1	1,4-Dichlorobenzene, 2-Methylphenol, 1,2,4-Trichlorobenzene, Dimethylphthalate, Diethylphthalate, N-Nitrosodip Hexachlorobenzene, Pentachlorophenol, Butylbenzylphthalate,
1229	NT1023020740S.D	BLA0064-MS2	1	NO MANUAL INTEGRATION
1308	NT1023020741S.D	BLA0064-MSD2	1	NO MANUAL INTEGRATION
1346	NT1023020742S.D	22L0459-02	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Dimethylphthalate, Diethylphthalate, Hexachlorobenzene, Pentachlorop Butylbenzylphthalate,
1425	NT1023020743S.D	22L0459-03	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Dimethylphthalate, Diethylphthalate, Hexachlorobenzene, Pentachlorop Butylbenzylphthalate,
1503	NT1023020744S.D	22L0459-04	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 2-Methylphenol, Dimethylphthalate, Diethylphtha Pentachlorophenol, Butylbenzylphthalate,
1541	NT1023020745S.D	22L0459-05	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Diethylphthalate, Butylbenzylphthalate,
1620	NT1023020746S.D	22L0459-06	1	Benzoic acid, 1,2,4-Trichlorobenzene, Diethylphthalate, N-Nitrosodiphenylamine, Pentachlorophenol, Butylbenzyl
1658	NT1023020747S.D	22L0459-07	1	Hexachlorobutadiene, 1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene, Diethylphthalate, N-Nitrosodiphenylamine, Pe Butylbenzylphthalate,
1736	NT1023020748S.D	SEQ-ICV3	1	NO MANUAL INTEGRATION
1814	NT1023020749S.D	SEQ-LCV3	1	NO MANUAL INTEGRATION
1852	NT1023020750S.D	SLB0106-ICV3	1	NO MANUAL INTEGRATION
1931	NT1023020751S.D	SLB0106-LCV2	1	Benzoic acid,
2008	NT1023020752S.D	BLA0160-BLK4	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Pentachlorophenol,
2047	NT1023020753S.D	23A0031-12	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Diethylphthalate, Dibenzo(a,h)anthracene, Butylbenzylphthalate,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b page

Instrument: nt10.i Date: 08-FEB-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
2125	NT1023020754S.D	23A0031-13	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Diethylphthalate, N-Nitrosodiphenylamine, Penta Butylbenzylphthalate,
2203	NT1023020755S.D	23A0031-14	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Diethylphthalate, N-Nitrosodiphenylamine, Penta Dibenzo(a,h)anthracene, Butylbenzylphthalate,
2241	NT1023020756S.D	BLA0160-MS1	1	NO MANUAL INTEGRATION
2319	NT1023020757S.D	BLA0160-MSD1	1	NO MANUAL INTEGRATION
2357	NT1023020758S.D	SEQ-CCV1	1	NO MANUAL INTEGRATION
0035	NT1023020759S.D	SEQ-LCV1	1	NO MANUAL INTEGRATION
0113	NT1023020760S.D	SLB0106-CCV1	1	NO MANUAL INTEGRATION
0151	NT1023020761S.D	SIM-LCV1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 10-Feb-2023 09:08

NT1023020701S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020702S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020703S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020704S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020705S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020706S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020707S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020708S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020709S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020710S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020711S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020712S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020713S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020714S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020715S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020716S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020717S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020718S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020719S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020720S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020721S.D	Data Locked	van, 10-Feb-2023 09:07
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NT1023020723S.D	Data Locked	van, 10-Feb-2023 09:07
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NT1023020725S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020726S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020727S.D	Data Locked	van, 10-Feb-2023 09:07
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NT1023020754S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020755S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020756S.D	Data Locked	van, 10-Feb-2023 09:07
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NT1023020758S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020759S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020760S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020761S.D	Data Locked	van, 10-Feb-2023 09:07

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INITIAL CALIBRATION DATA

Start Cal Date : 07-FEB-2023 12:57
End Cal Date : 07-FEB-2023 17:25
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Last Edit : 09-Feb-2023 11:45 van

Calibration File Names:
Level 1: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020710S.D
Level 2: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020709S.D
Level 3: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020708S.D
Level 4: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020707S.D
Level 5: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020706S.D
Level 6: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020705S.D
Level 7: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020704S.D
Level 8: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020703S.D

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
142 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
137 NewCpnd_131	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
133 Butylatedhydroxytoluene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
131 1-Methylphenanthrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
146 Benzo(j)fluoranthene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
130 Dibenzothiophene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
129 1-Methylfluorene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
128 N-Hexadecane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
127 2-Isopropylnaphthalene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
126 N-Tetradecane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
120 2,3,4,6-Tetrachlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
119 7,12-Dimethylbenz(a)anthracen	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
118 Triphenyl Phosphate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
117 Butyl Diphenyl Phosphate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
116 Dibutyl Phenyl Phosphate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
115 Tributyl Phosphate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
114 Beta-Pinene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
111 Azobenzene (1,2-DP-Hydrazine)	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
107 4,5-Dichloro-2-Methoxyphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
106 Guaiacol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
105 1-methylnaphthalene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
3 Phenol	1.58079	1.89837	1.89484	1.96176	2.04969	1.73555					
	1.79475	1.75767					AVRG		1.83418		8.03055
4 Bis(2-Chloroethyl)ether	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
6 2-Chlorophenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
7 1,3-Dichlorobenzene	1.74615	1.86857	1.75087	1.68994	1.69567	1.47816					
	1.50050	1.48435					AVRG		1.65178		8.86723
9 1,4-Dichlorobenzene	1.74685	1.82415	1.71700	1.64464	1.64495	1.43848					
	1.45391	1.44953					AVRG		1.61494		9.29693

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
11 Benzyl alcohol	0.62293	0.86415	0.93679	0.83356	0.96008	0.93553					
	0.98942	1.01574					AVRG		0.89477		14.00156
12 1,2-Dichlorobenzene	1.66908	1.76073	1.66781	1.60648	1.63427	1.41183					
	1.43716	1.42224					AVRG		1.57620		8.49209
13 2-Methylphenol	1.22343	1.34546	1.28491	1.31129	1.33606	1.16129					
	1.18325	1.17175					AVRG		1.25218		6.08280
14 2,2'-oxybis(1-Chloropropane)	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
15 4-Methylphenol	1.10010	1.29695	1.28113	1.35183	1.40798	1.23738					
	1.28055	1.26128					AVRG		1.27715		7.02159
16 N-Nitroso-di-n-propylamine	0.75326	1.05498	0.93120	0.93342	0.96840	0.85951					
	0.89599	0.89695					AVRG		0.91171		9.53389
17 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
20 Isophorone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
21 2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
22 2,4-Dimethylphenol	0.34652	0.38621	0.37736	0.37743	0.37769	0.32336					
	0.32586	0.29652					AVRG		0.35137		9.45702
23 Bis(2-Chloroethoxy)methane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
24 Benzoic acid	+++++	+++++	686	13988	55939	172818					
	431413	1121229					QUAD	0.000e+000	6.16200	-0.81584	0.99832
25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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26 1,2,4-Trichlorobenzene	0.34478	0.37256	0.35156	0.33914	0.34453	0.29173					
	0.29549	0.29498					AVRG		0.32935		9.37065
28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
30 Hexachlorobutadiene	0.18854	0.20123	0.19331	0.18374	0.18745	0.16034					
	0.16117	0.16275					AVRG		0.17982		8.93978
31 4-Chloro-3-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
33 Hexachlorocyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-FEB-2023 12:57
End Cal Date : 07-FEB-2023 17:25
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Last Edit : 09-Feb-2023 11:45 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
34 2,4,6-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
35 2,4,5-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
37 2-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
38 2-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
39 Dimethylphthalate	0.92442	1.02335	0.96145	0.99495	1.01023	0.83721					
	0.84244	0.86408					AVRG		0.93227		8.20643
40 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
41 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
43 3-Nitroaniline	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
44 Acenaphthene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
45 2,4-Dinitrophenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
46 Dibenzofuran	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
47 4-Nitrophenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
48 2,4-Dinitrotoluene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
49 Fluorene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
50 Diethylphthalate	1.49592	1.46195	1.39898	1.47147	1.52944	1.26227					
	1.28852	+++++					AVRG		1.41551		7.33141
51 4-Chlorophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
53 4,6-Dinitro-2-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
54 N-Nitrosodiphenylamine	0.70554	0.75239	0.69198	0.68143	0.69645	0.59922					
	0.58766	0.57369					AVRG		0.66104		9.86820
56 4-Bromophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
57 Hexachlorobenzene	0.29697	0.32447	0.29832	0.29138	0.29541	0.25345					
	0.25082	0.23980					AVRG		0.28133		10.51574

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
58 Pentachlorophenol	+++++	349	1100	7222	19774	48429					
	113682	+++++					QUAD	0.000e+000	11.93360	-10.73390	0.99902
60 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
61 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
62 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
63 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
64 Fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
65 Pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
67 Butylbenzylphthalate	1953	5564	8910	29952	61304	127815					
	254316	549960					QUAD	0.000e+000	1.81649	-0.15663	0.99943
68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
72 bis(2-Ethylhexyl)phthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
76 Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
78 Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
79 Dibenzo(a,h)anthracene	1.08133	1.21438	1.15874	1.13377	1.18525	1.02278					
	1.06172	1.11029					AVRG		1.12103		5.76967
80 Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
90 N-Nitrosodimethylamine	0.70175	0.83142	0.81237	0.84482	0.86394	0.76990					
	0.78099	0.77173					AVRG		0.79711		6.51683
91 Aniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
103 Pyridine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 1 2-Fluorophenol	1.04405	1.33767	1.31032	1.27277	1.30157	1.15028					
	1.18462	1.12985					AVRG		1.21639		8.59635
$ 145 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 2 Phenol-d5	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 5 2-Chlorophenol-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	5.0000 Level 7	10.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 10 1,2-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
$ 18 Nitrobenzene-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
$ 36 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
$ 55 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
$ 66 Terphenyl-d14	0.91310	0.99012	0.94031	0.91197	0.92876	0.77990	0.79262	0.84605	AVRG		0.88785		8.36094
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230207.b\20230207.b
Inst ID: nt10.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08
FILENAME:	NT1023020703S	NT1023020704S	NT1023020705S	NT1023020706S	NT1023020707S	NT1023020708S	NT1023020709S	NT1023020710S
INJ.DATE:	07-FEB-2023	07-FEB-2023	07-FEB-2023	07-FEB-2023	07-FEB-2023	07-FEB-2023	07-FEB-2023	07-FEB-2023
INJ.TIME:	12:57	13:35	14:14	14:52	15:30	16:09	16:47	17:25

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	6.778	6.770	6.778	6.778	6.778	6.778	6.778	6.786	6.786	6.286-7.286	6.778	0.004
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	33.580	33.080-34.080	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.873	30.373-31.373	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.496	14.996-15.996	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.428	19.928-20.928	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.471	19.971-20.971	+++++	+++++
137 NewCpnd_131	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.828	7.328-8.328	+++++	+++++
* 134 Di-n-octylphthalate-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.768	23.268-24.268	+++++	+++++
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.190	13.690-14.690	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.262	30.762-31.762	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	29.954	29.454-30.454	+++++	+++++
146 Benzo(j)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.752	23.252-24.252	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.717	27.217-28.217	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.566	20.066-21.066	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.796	19.296-20.296	+++++	+++++

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230207.b\20230207.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.349	22.849-23.849	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.474	21.974-22.974	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.191	10.691-11.691	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.779	17.279-18.279	+++++	+++++
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.310	15.810-16.810	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.707	17.207-18.207	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.921	8.421-9.421	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.736	3.236-4.236	+++++	+++++
$ 145 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.914	2.414-3.414	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.148	19.648-20.648	+++++	+++++
120 2,3,4,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.588	15.088-16.088	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.587	38.087-39.087	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.382	19.882-20.882	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.734	18.234-19.234	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.987	16.487-17.487	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.204	14.704-15.704	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.540	14.040-15.040	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.586	21.086-22.086	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.692	17.192-18.192	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.268	15.768-16.768	+++++	+++++
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.055	17.555-18.555	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.228	16.728-17.728	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230207.b\20230207.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
108	4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.517	16.017-17.017	+++++	+++++
107	4,5-Dichloro-2-Methoxy	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.803	14.303-15.303	+++++	+++++
106	Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.843	11.343-12.343	+++++	+++++
105	1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.927	12.427-13.427	+++++	+++++
$ 2	Phenol-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.235	7.735-8.735	+++++	+++++
3	Phenol	8.362	8.362	8.354	8.354	8.354	8.362	8.362	8.370	8.370	7.870-8.870	8.360	0.005
4	Bis(2-Chloroethyl)ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.397	7.897-8.897	+++++	+++++
$ 5	2-Chlorophenol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.490	7.990-8.990	+++++	+++++
6	2-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.521	8.021-9.021	+++++	+++++
7	1,3-Dichlorobenzene	8.903	8.903	8.903	8.903	8.903	8.903	8.903	8.903	8.903	8.403-9.403	8.903	0.000
* 8	1,4-Dichlorobenzene-d4	8.965	8.965	8.965	8.965	8.965	8.965	8.965	8.965	8.965	8.465-9.465	8.965	0.000
9	1,4-Dichlorobenzene	8.996	8.996	8.996	8.996	8.996	8.996	8.996	8.996	8.996	8.496-9.496	8.996	0.000
$ 10	1,2-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.230	8.730-9.730	+++++	+++++
11	Benzyl alcohol	9.237	9.229	9.229	9.229	9.237	9.244	9.244	9.268	9.268	8.768-9.768	9.239	0.013
12	1,2-Dichlorobenzene	9.345	9.345	9.345	9.345	9.345	9.345	9.345	9.345	9.345	8.845-9.845	9.345	0.000
13	2-Methylphenol	9.462	9.454	9.462	9.454	9.454	9.462	9.462	9.470	9.470	8.970-9.970	9.460	0.006
14	2,2'-oxybis(1-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.413	8.913-9.913	+++++	+++++
15	4-Methylphenol	9.726	9.725	9.725	9.726	9.726	9.733	9.733	9.741	9.741	9.241-10.241	9.730	0.006
16	N-Nitroso-di-n-propyla	9.788	9.780	9.780	9.780	9.780	9.780	9.780	9.780	9.780	9.280-10.280	9.781	0.003
17	Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.809	9.309-10.309	+++++	+++++
$ 18	Nitrobenzene-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.917	9.417-10.417	+++++	+++++
19	Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.948	9.448-10.448	+++++	+++++
20	Isophorone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.399	9.899-10.899	+++++	+++++
21	2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.575	10.075-11.075	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230207.b\20230207.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	22 2,4-Dimethylphenol	10.763	10.754	10.754	10.755	10.755	10.754	10.763	10.763	10.763	10.263-11.263	10.758	0.004
	23 Bis(2-Chloroethoxy)met	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.830	10.330-11.330	+++++	+++++
	24 Benzoic acid	11.060	10.983	10.941	10.916	10.916	11.204	+++++	+++++	11.204	10.704-11.704	11.003	0.112
	25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.033	10.533-11.533	+++++	+++++
	26 1,2,4-Trichlorobenzene	11.342	11.342	11.342	11.335	11.335	11.335	11.342	11.343	11.343	10.843-11.843	11.340	0.004
*	27 Naphthalene-d8	11.427	11.419	11.420	11.420	11.420	11.420	11.420	11.420	11.420	10.920-11.920	11.421	0.003
	28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.326	10.826-11.826	+++++	+++++
	29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.457	10.957-11.957	+++++	+++++
	30 Hexachlorobutadiene	11.829	11.829	11.821	11.829	11.822	11.829	11.829	11.829	11.829	11.329-12.329	11.827	0.004
	31 4-Chloro-3-methylpheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.432	11.932-12.932	+++++	+++++
	32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.710	12.210-13.210	+++++	+++++
	33 Hexachlorocyclopentadi	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.182	12.682-13.682	+++++	+++++
	34 2,4,6-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.330	12.830-13.830	+++++	+++++
	35 2,4,5-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.415	12.915-13.915	+++++	+++++
$	36 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.484	12.984-13.984	+++++	+++++
	37 2-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.686	13.186-14.186	+++++	+++++
	38 2-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.941	13.441-14.441	+++++	+++++
	39 Dimethylphthalate	14.522	14.514	14.514	14.515	14.515	14.514	14.515	14.515	14.515	14.015-15.015	14.516	0.003
	40 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.545	14.045-15.045	+++++	+++++
	41 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.506	14.006-15.006	+++++	+++++
*	42 Acenaphthene-d10	15.010	15.002	15.002	15.002	15.002	15.002	15.002	15.002	15.002	14.502-15.502	15.003	0.003
	43 3-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.785	14.285-15.285	+++++	+++++
	44 Acenaphthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.924	14.424-15.424	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230207.b\20230207.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	45 2,4-Dinitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.001	14.501-15.501	+++++	+++++
	46 Dibenzofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.248	14.748-15.748	+++++	+++++
	47 4-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.171	14.671-15.671	+++++	+++++
	48 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.302	14.802-15.802	+++++	+++++
	49 Fluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.952	15.452-16.452	+++++	+++++
	50 Diethylphthalate	15.976	15.968	15.961	15.961	15.961	15.961	15.961	15.961	15.961	15.461-16.461	15.964	0.006
	51 4-Chlorophenyl-phenyle	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.952	15.452-16.452	+++++	+++++
	52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.037	15.537-16.537	+++++	+++++
	53 4,6-Dinitro-2-methylph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.145	15.645-16.645	+++++	+++++
	54 N-Nitrosodiphenylamine	16.347	16.346	16.339	16.339	16.339	16.339	16.339	16.347	16.347	15.847-16.847	16.342	0.004
$	55 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.477	15.977-16.977	+++++	+++++
	56 4-Bromophenyl-phenylet	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.939	16.439-17.439	+++++	+++++
	57 Hexachlorobenzene	17.404	17.404	17.404	17.396	17.404	17.404	17.404	17.404	17.404	16.904-17.904	17.403	0.003
	58 Pentachlorophenol	17.760	17.760	17.760	17.760	17.768	17.776	17.783	17.799	17.799	17.299-18.299	17.771	0.014
*	59 Phenanthrene-d10	18.023	18.015	18.015	18.016	18.016	18.015	18.015	18.016	18.016	17.516-18.516	18.016	0.003
	60 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.899	17.399-18.399	+++++	+++++
	61 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.991	17.491-18.491	+++++	+++++
	62 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.324	17.824-18.824	+++++	+++++
	63 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.152	18.652-19.652	+++++	+++++
	64 Fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.289	19.789-20.789	+++++	+++++
	65 Pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.715	20.215-21.215	+++++	+++++
$	66 Terphenyl-d14	21.172	21.164	21.164	21.165	21.165	21.164	21.164	21.165	21.165	20.665-21.665	21.165	0.003
	67 Butylbenzylphthalate	22.101	22.093	22.093	22.094	22.094	22.093	22.094	22.094	22.094	21.594-22.594	22.094	0.003
	68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.875	22.375-23.375	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230207.b\20230207.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	69 Chrysene-d12	23.069	23.069	23.069	23.062	23.062	23.061	23.061	23.062	23.062	22.562-23.562	23.064	0.004
	70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.844	22.344-23.344	+++++	+++++
	71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.952	22.452-23.452	+++++	+++++
	72 bis(2-Ethylhexyl)phtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.007	22.507-23.507	+++++	+++++
	73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.990	23.490-24.490	+++++	+++++
	74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.687	24.187-25.187	+++++	+++++
	75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.725	24.225-25.225	+++++	+++++
	76 Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.283	24.783-25.783	+++++	+++++
*	77 Perylene-d12	25.624	25.616	25.616	25.616	25.617	25.616	25.616	25.617	25.617	25.117-26.117	25.617	0.003
	78 Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.794	27.294-28.294	+++++	+++++
	79 Dibenzo(a,h)anthracene	28.188	28.173	28.173	28.165	28.173	28.173	28.181	28.189	28.189	27.689-28.689	28.177	0.008
	80 Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	28.494	27.994-28.994	+++++	+++++
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.238	16.738-17.738	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	29.316	28.816-29.816	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.007	25.507-26.507	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	44.609	44.109-45.109	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.085	15.585-16.585	+++++	+++++
	90 N-Nitrosodimethylamine	4.646	4.638	4.639	4.639	4.639	4.631	4.646	4.647	4.647	4.147-5.147	4.641	0.006
	91 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.305	7.805-8.805	+++++	+++++
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.615	21.115-22.115	+++++	+++++
	93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.529	20.029-21.029	+++++	+++++
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.686	17.186-18.186	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.540	14.040-15.040	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.957	26.457-27.457	+++++	+++++

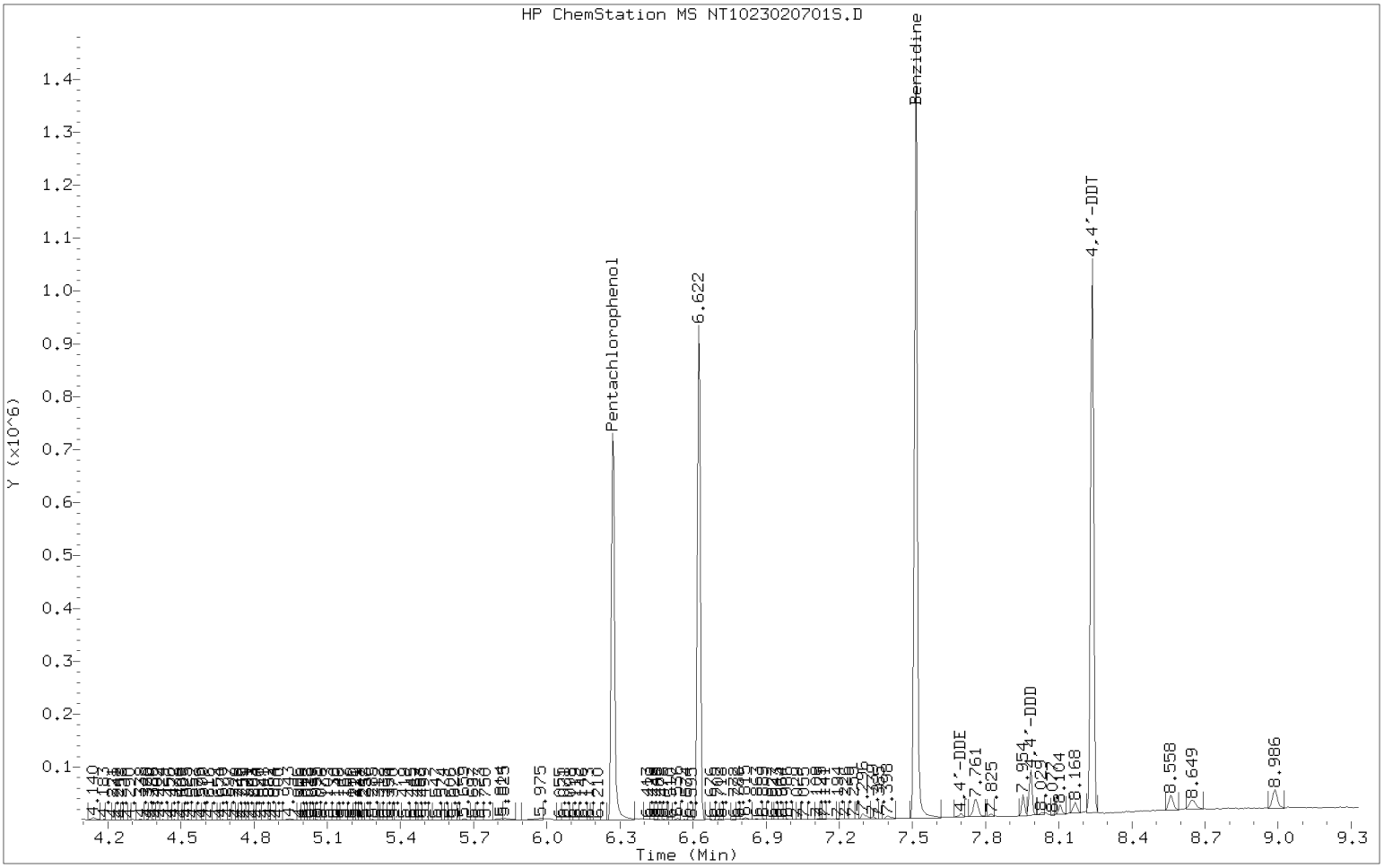
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

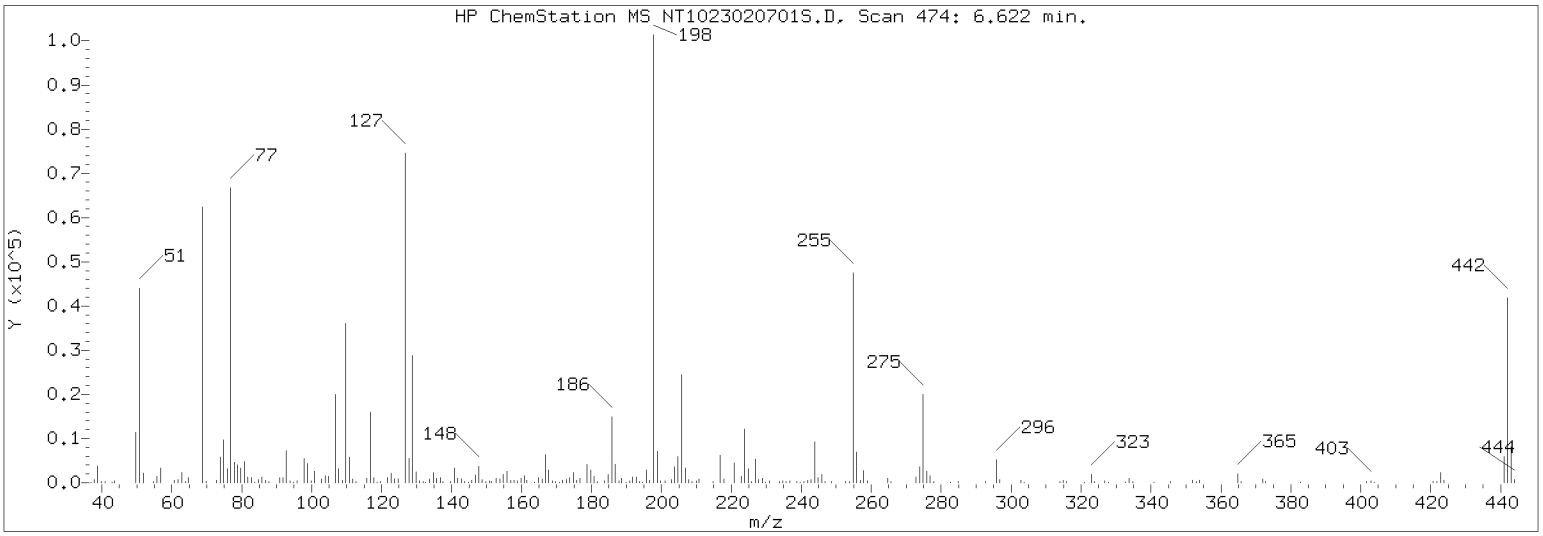
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230207.b\20230207.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.609	19.109-20.109	+++++	+++++
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.438	24.938-25.938	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.384	25.884-26.884	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.881	43.381-44.381	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	45.573	45.073-46.073	+++++	+++++
103 Pyridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.535	4.035-5.035	+++++	+++++

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230207.b/20230207.b/NT1023020701S.D/NT1023020701S.D
Method Used: \20230207.b\20230207.b\DFTPP8270E.m Inst: nt10
Injection Date: 07-FEB-2023 11:54 Operator: DSD
Sample Info: SLB0106-TUN1 SLB0106-TUN1
Report Date: 02/09/2023 12:56





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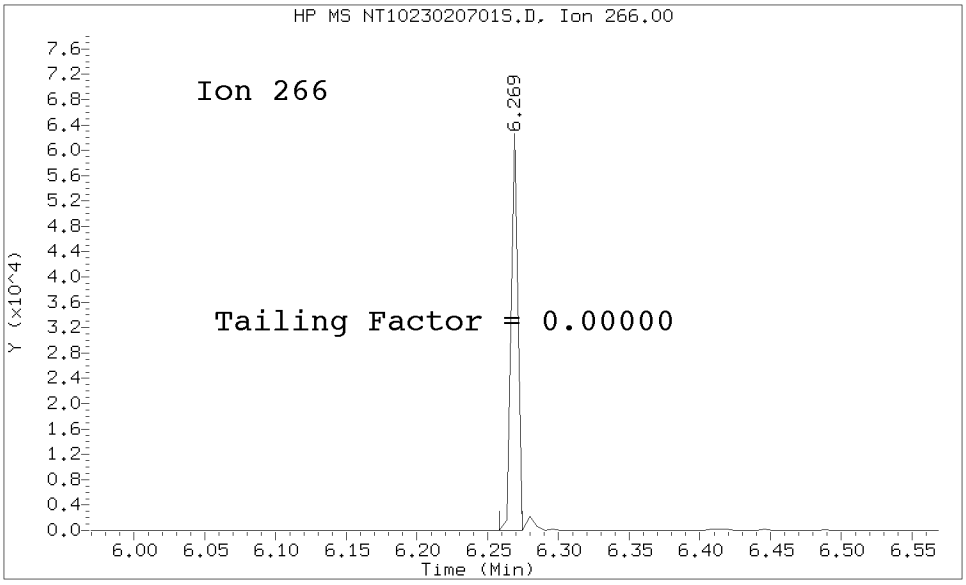
Method Used: \20230207.b\20230207.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 07-FEB-2023 11:54 Operator: DSD
Sample Info: SEQ-TUN1
Report Date: 02/09/2023 12:56



Pentachlorophenol
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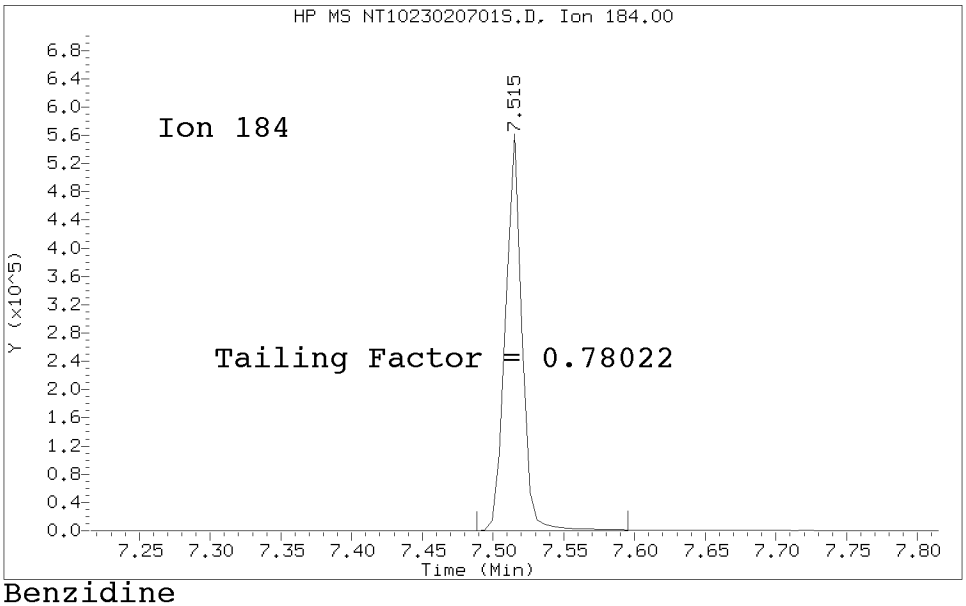
 Exp. RT = 6.269
Found RT = 6.269

Tail Factor = 0.000 Maximum Allowed = 2.0



Benzidine
==========
 Exp. RT = 7.515
Found RT = 7.515

Tail Factor = 0.780 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.0000000	2.000	PASS
Benzidine	0.7802198	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	149280			N/A
4,4-DDE	735	0.5	20.0	PASS
4,4-DDD	12536	7.7	20.0	PASS
4,4-DDD + DDE	13271	8.2	20.0	PASS

Tuning Sample, nt10.i/20230207.b/20230207.b/NT1023020701S.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	60.47
70	Less than 2.00% of mass 69	0.29 (0.48)
197	Less than 2.00% of mass 198	0.49
199	5.00 - 9.00% of mass 198	6.86
365	1.00 - 100.00% of mass 198	2.39
441	Less than 150.00% of mass 443	6.91 (74.79)
442	Less than 200.00% of mass 198	47.52
443	15.00 - 24.00% of mass 442	9.23 (19.43)

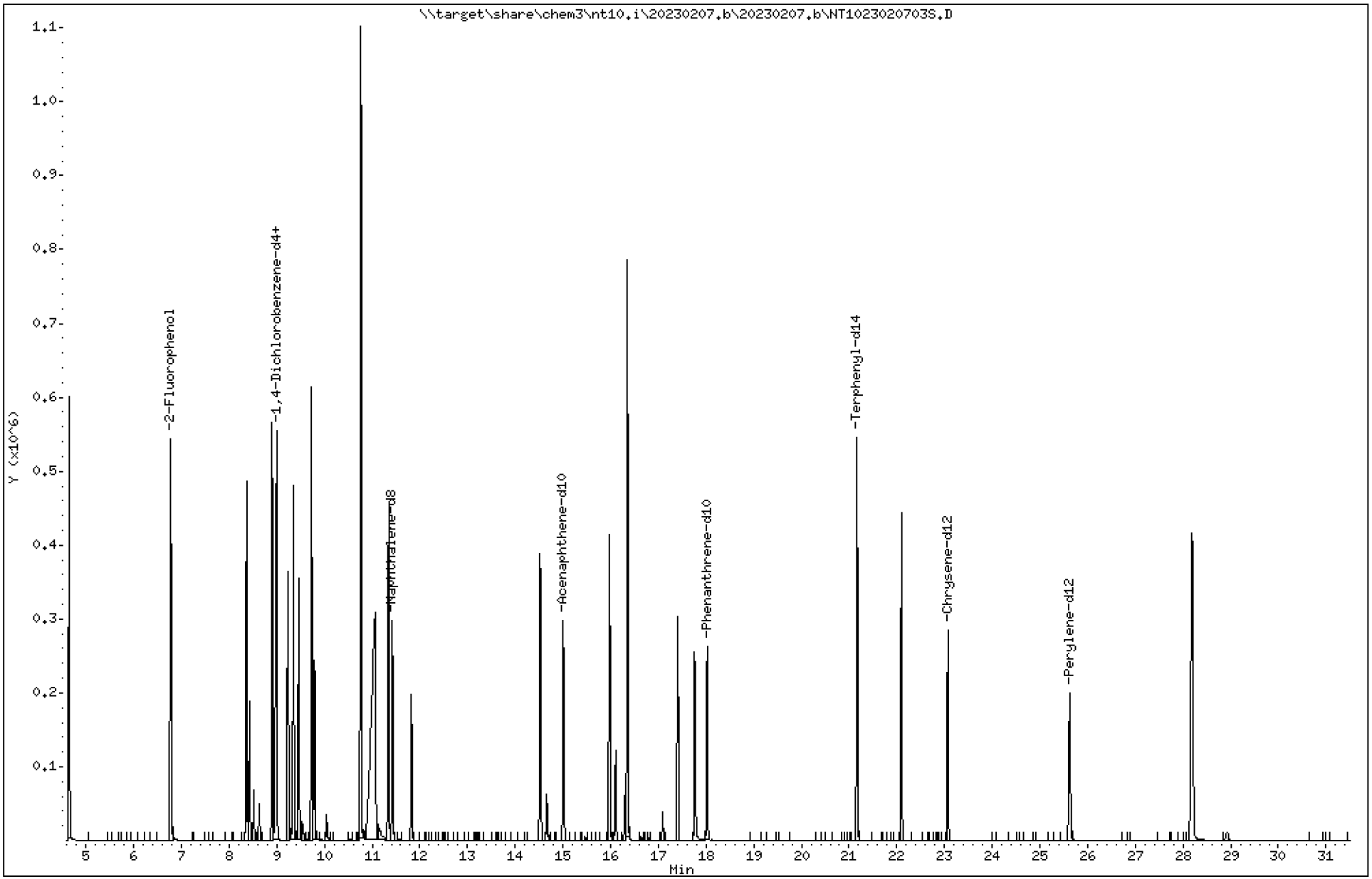
Data File: NT1023020701S.D
Spectrum: Avg. Scans 473-475 (6.62), Background Scan 468
Location of Maximum: 198.00
Number of points: 230

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	119	116.00	359	180.00	2190	254.00	118
38.00	475	117.00	11928	181.00	1080	255.00	37560
39.00	2852	118.00	862	182.00	148	256.00	5492
40.00	228	119.00	105	184.00	220	257.00	441
41.00	60	120.00	163	185.00	1473	258.00	2142
43.00	52	122.00	932	186.00	11286	259.00	374
44.00	19	123.00	1583	187.00	3200	265.00	861
49.00	199	124.00	690	188.00	636	266.00	153
50.00	8730	125.00	703	189.00	393	273.00	1096
51.00	32904	127.00	55096	190.00	58	274.00	2954
52.00	1756	128.00	4133	191.00	351	275.00	16094
55.00	283	129.00	21552	192.00	960	276.00	2062
56.00	1097	130.00	1846	193.00	1072	277.00	1379
57.00	2521	131.00	354	194.00	250	278.00	185
61.00	464	132.00	220	195.00	53	283.00	130
62.00	564	133.00	55	196.00	2314	284.00	59
63.00	1603	134.00	606	197.00	379	285.00	205
64.00	237	135.00	1785	198.00	77392	293.00	262
65.00	848	136.00	683	199.00	5312	296.00	4424
69.00	46800	137.00	996	200.00	419	297.00	608
70.00	226	138.00	76	201.00	374	302.00	75
73.00	286	140.00	245	203.00	595	303.00	429
74.00	4406	141.00	2462	204.00	2841	304.00	113
75.00	7199	142.00	1192	205.00	4572	314.00	253
76.00	2399	143.00	511	206.00	18736	315.00	423
77.00	49840	144.00	185	207.00	2575	316.00	233
78.00	3477	145.00	68	208.00	609	321.00	120
79.00	2952	146.00	430	209.00	199	323.00	1536
80.00	2464	147.00	1292	210.00	336	324.00	224
81.00	3558	148.00	2914	211.00	768	327.00	262
82.00	946	149.00	591	215.00	254	328.00	111
83.00	770	150.00	144	217.00	4805	333.00	112
84.00	191	151.00	589	218.00	615	334.00	892
85.00	584	153.00	789	221.00	3522	335.00	216
86.00	997	154.00	600	223.00	1075	341.00	125
87.00	447	155.00	1374	224.00	9658	346.00	270
88.00	140	156.00	1954	225.00	2516	352.00	368
91.00	854	157.00	519	226.00	114	353.00	232
92.00	848	158.00	446	227.00	4133	354.00	428
93.00	5377	159.00	293	228.00	597	365.00	1853
94.00	366	160.00	719	229.00	841	366.00	222
95.00	195	161.00	1289	230.00	64	371.00	50
96.00	333	162.00	174	231.00	384	372.00	649
98.00	4109	164.00	57	234.00	215	373.00	150
99.00	3213	165.00	910	235.00	397	383.00	160
100.00	283	166.00	717	236.00	100	402.00	209
101.00	1952	167.00	4756	237.00	321	403.00	396
103.00	639	168.00	2216	239.00	184	404.00	124
104.00	1244	169.00	394	240.00	63	421.00	262

105.00	1190	170.00	79	241.00	196	422.00	242
106.00	77	171.00	147	242.00	509	423.00	1998
107.00	14850	172.00	428	243.00	289	424.00	382
108.00	2302	173.00	510	244.00	7324	441.00	5344
109.00	279	174.00	899	245.00	989	442.00	36776
110.00	26472	175.00	1734	246.00	1436	443.00	7145
111.00	4139	176.00	479	247.00	288	444.00	677
112.00	545	177.00	846	249.00	228		
113.00	159	179.00	3266	253.00	167		

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207033S.D
Date : 07-FEB-2023 12:57
Client ID:
Sample Info: SLB0106-CAL8
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: DSD
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020703S.D
Lab Smp Id: SLB0106-CAL8
Inj Date : 07-FEB-2023 12:57 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-CAL8
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	6.777	6.785	(0.756)	540747	15.0000	13.93
3	Phenol	94	8.361	8.369	(0.933)	560814	10.0000	9.583
7	1,3-Dichlorobenzene	146	8.902	8.903	(0.993)	473607	10.0000	8.986
* 8	1,4-Dichlorobenzene-d4	152	8.964	8.965	(1.000)	127627	4.00000	
9	1,4-Dichlorobenzene	146	8.995	8.996	(1.003)	462499	10.0000	8.976
11	Benzyl alcohol	79	9.236	9.267	(1.030)	324090	10.0000	11.35
12	1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	453790	10.0000	9.023
13	2-Methylphenol	108	9.461	9.469	(1.055)	373868	10.0000	9.358
15	4-Methylphenol	108	9.725	9.741	(1.085)	402432	10.0000	9.876
16	N-Nitroso-di-n-propylamine	70	9.787	9.780	(1.092)	286188	10.0000	9.838
22	2,4-Dimethylphenol	107	10.763	10.763	(0.942)	708012	20.0000	16.88
24	Benzoic acid	105	11.060	11.204	(0.968)	1121229	40.0000	39.88
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	352176	10.0000	8.957
* 27	Naphthalene-d8	136	11.427	11.419	(1.000)	477552	4.00000	
30	Hexachlorobutadiene	225	11.829	11.829	(1.035)	194304	10.0000	9.051
39	Dimethylphthalate	163	14.522	14.514	(0.968)	504374	10.0000	9.269
* 42	Acenaphthene-d10	162	15.009	15.002	(1.000)	233486	4.00000	
50	Diethylphthalate	149	15.976	15.961	(1.064)	772595	10.0000	9.427
54	N-Nitrosodiphenylamine	169	16.346	16.346	(0.907)	630732	10.0000	8.679
57	Hexachlorobenzene	284	17.403	17.404	(0.966)	263639	10.0000	8.524

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	17.760	17.799	(0.985)	273937	20.0000	19.95
*	59 Phenanthrene-d10	188	18.023	18.015	(1.000)	439772	4.00000	
$	66 Terphenyl-d14	244	21.172	21.164	(0.918)	727545	10.0000	9.529
	67 Butylbenzylphthalate	149	22.101	22.094	(0.958)	549960	10.0000	10.66
*	69 Chrysene-d12	240	23.069	23.061	(1.000)	343972	4.00000	
*	77 Perylene-d12	264	25.624	25.616	(1.000)	368450	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.188	28.188	(1.100)	1022718	10.0000	9.904
	90 N-Nitrosodimethylamine	74	4.646	4.646	(0.518)	492470	20.0000	19.36

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020703S.D
Lab Smp Id: SLB0106-CAL8
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	127627	-0.91
27 Naphthalene-d8	469043	234522	938086	477552	1.81
42 Acenaphthene-d10	233225	116613	466450	233486	0.11
59 Phenanthrene-d10	433858	216929	867716	439772	1.36
69 Chrysene-d12	361809	180905	723618	343972	-4.93
77 Perylene-d12	380407	190204	760814	368450	-3.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.96	-0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.43	0.07
42 Acenaphthene-d10	15.00	14.50	15.50	15.01	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.04
69 Chrysene-d12	23.06	22.56	23.56	23.07	0.03
77 Perylene-d12	25.62	25.12	26.12	25.62	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020703S.D

Lab ID: SLB0106-CAL8
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 12:57

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.968	0.000	0.9678	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020704S.D

Date : 07-FEB-2023 13:35

Client ID:

Instrument: nt10.i

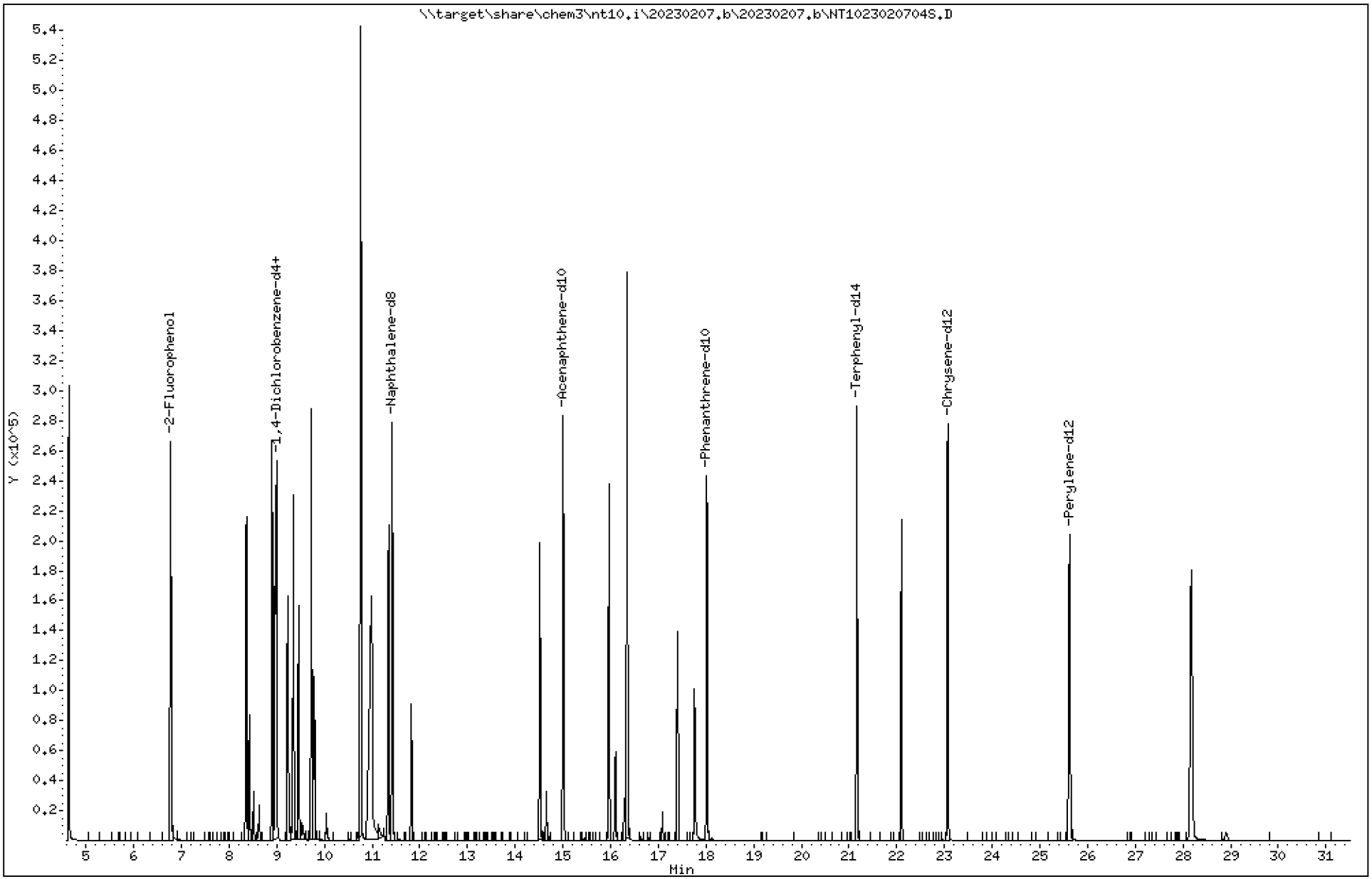
Sample Info: SLB0106-CAL7

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020704S.D
Lab Smp Id: SLB0106-CAL7
Inj Date : 07-FEB-2023 13:35 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-CAL7
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	6.769	6.785	(0.755)	260225	7.50000	7.304
3	Phenol	94	8.361	8.369	(0.933)	262834	5.00000	4.893
7	1,3-Dichlorobenzene	146	8.902	8.903	(0.993)	219743	5.00000	4.542
* 8	1,4-Dichlorobenzene-d4	152	8.964	8.965	(1.000)	117157	4.00000	
9	1,4-Dichlorobenzene	146	8.995	8.996	(1.003)	212920	5.00000	4.501
11	Benzyl alcohol	79	9.228	9.267	(1.029)	144897	5.00000	5.529
12	1,2-Dichlorobenzene	146	9.344	9.345	(1.042)	210466	5.00000	4.559
13	2-Methylphenol	108	9.453	9.469	(1.055)	173282	5.00000	4.725
15	4-Methylphenol	108	9.725	9.741	(1.085)	187532	5.00000	5.013
16	N-Nitroso-di-n-propylamine	70	9.779	9.780	(1.091)	131214	5.00000	4.914
22	2,4-Dimethylphenol	107	10.754	10.763	(0.942)	361601	10.0000	9.274
24	Benzoic acid	105	10.983	11.204	(0.962)	431413	20.0000	20.87
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	163949	5.00000	4.486
* 27	Naphthalene-d8	136	11.419	11.419	(1.000)	443872	4.00000	
30	Hexachlorobutadiene	225	11.828	11.829	(1.036)	89424	5.00000	4.482
39	Dimethylphthalate	163	14.514	14.514	(0.968)	238197	5.00000	4.518
* 42	Acenaphthene-d10	162	15.001	15.002	(1.000)	226196	4.00000	
50	Diethylphthalate	149	15.968	15.961	(1.064)	364322	5.00000	4.589
54	N-Nitrosodiphenylamine	169	16.346	16.346	(0.907)	298443	5.00000	4.445
57	Hexachlorobenzene	284	17.403	17.404	(0.966)	127381	5.00000	4.458

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
58	Pentachlorophenol	266	17.759	17.799	(0.986)	113682	10.0000	10.33
* 59	Phenanthrene-d10	188	18.015	18.015	(1.000)	406281	4.00000	
$ 66	Terphenyl-d14	244	21.164	21.164	(0.917)	349365	5.00000	4.464
67	Butylbenzylphthalate	149	22.093	22.094	(0.958)	254316	5.00000	4.807
* 69	Chrysene-d12	240	23.068	23.061	(1.000)	352619	4.00000	
* 77	Perylene-d12	264	25.616	25.616	(1.000)	360424	4.00000	
79	Dibenzo(a,h)anthracene	278	28.172	28.188	(1.100)	478335	5.00000	4.735
90	N-Nitrosodimethylamine	74	4.638	4.646	(0.517)	228745	10.0000	9.798

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020704S.D
Lab Smp Id: SLB0106-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	117157	-9.04
27 Naphthalene-d8	469043	234522	938086	443872	-5.37
42 Acenaphthene-d10	233225	116613	466450	226196	-3.01
59 Phenanthrene-d10	433858	216929	867716	406281	-6.36
69 Chrysene-d12	361809	180905	723618	352619	-2.54
77 Perylene-d12	380407	190204	760814	360424	-5.25

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.96	-0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	-0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.00	-0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	-0.00
69 Chrysene-d12	23.06	22.56	23.56	23.07	0.03
77 Perylene-d12	25.62	25.12	26.12	25.62	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020704S.D

Lab ID: SLB0106-CAL7
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 13:35

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.962	0.000	0.9618	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207055.D

Date : 07-FEB-2023 14:14

Client ID:

Instrument: nt10.i

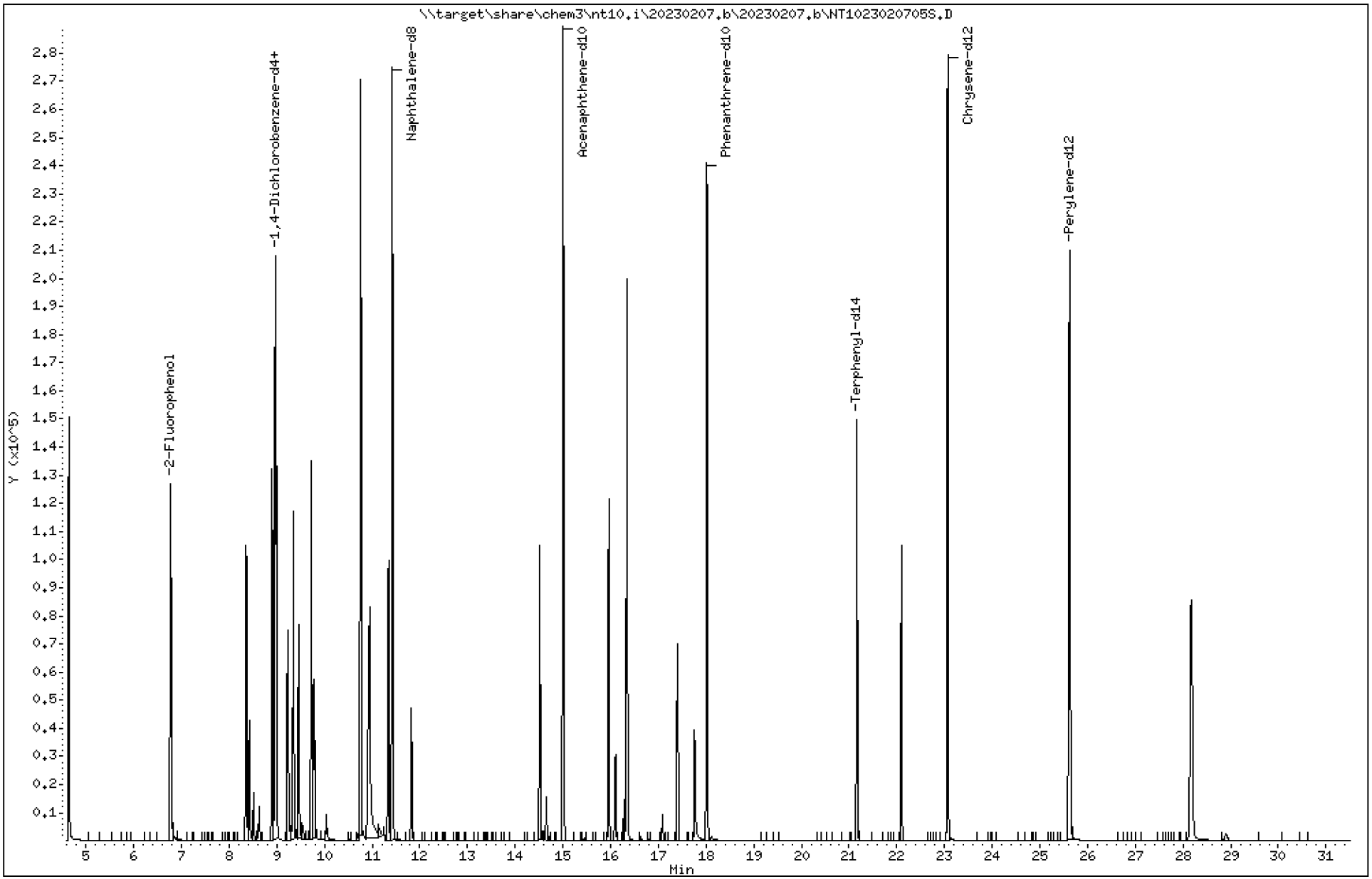
Sample Info: SLB0106-CAL6

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020705S.D
Lab Smp Id: SLB0106-CAL6
Inj Date : 07-FEB-2023 14:14 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-CAL6
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	6.777	6.785	(0.756)	130423	3.75000	3.546
3	Phenol	94	8.353	8.369	(0.932)	131189	2.50000	2.366
7	1,3-Dichlorobenzene	146	8.902	8.903	(0.993)	111733	2.50000	2.237
* 8	1,4-Dichlorobenzene-d4	152	8.964	8.965	(1.000)	120943	4.00000	
9	1,4-Dichlorobenzene	146	8.995	8.996	(1.003)	108734	2.50000	2.227
11	Benzyl alcohol	79	9.228	9.267	(1.029)	70716	2.50000	2.614
12	1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	106719	2.50000	2.239
13	2-Methylphenol	108	9.461	9.469	(1.055)	87781	2.50000	2.319
15	4-Methylphenol	108	9.725	9.741	(1.085)	93533	2.50000	2.422
16	N-Nitroso-di-n-propylamine	70	9.779	9.780	(1.091)	64970	2.50000	2.357
22	2,4-Dimethylphenol	107	10.754	10.763	(0.942)	182493	5.00000	4.601
24	Benzoic acid	105	10.941	11.204	(0.958)	172818	10.0000	8.956
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	82323	2.50000	2.214
* 27	Naphthalene-d8	136	11.419	11.419	(1.000)	451498	4.00000	
30	Hexachlorobutadiene	225	11.821	11.829	(1.035)	45245	2.50000	2.229
39	Dimethylphthalate	163	14.514	14.514	(0.968)	120497	2.50000	2.245
* 42	Acenaphthene-d10	162	15.001	15.002	(1.000)	230284	4.00000	
50	Diethylphthalate	149	15.960	15.961	(1.064)	181675	2.50000	2.248
54	N-Nitrosodiphenylamine	169	16.338	16.346	(0.907)	154220	2.50000	2.266
57	Hexachlorobenzene	284	17.403	17.404	(0.966)	65231	2.50000	2.252

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	17.760	17.799	(0.986)	48429	5.00000	4.612
*	59 Phenanthrene-d10	188	18.015	18.015	(1.000)	411788	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.917)	176719	2.50000	2.196
	67 Butylbenzylphthalate	149	22.093	22.094	(0.958)	127815	2.50000	2.350
*	69 Chrysene-d12	240	23.069	23.061	(1.000)	362547	4.00000	
*	77 Perylene-d12	264	25.616	25.616	(1.000)	370447	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.172	28.188	(1.100)	236804	2.50000	2.281
	90 N-Nitrosodimethylamine	74	4.638	4.646	(0.517)	116392	5.00000	4.829

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020705S.D
Lab Smp Id: SLB0106-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	120943	-6.10
27 Naphthalene-d8	469043	234522	938086	451498	-3.74
42 Acenaphthene-d10	233225	116613	466450	230284	-1.26
59 Phenanthrene-d10	433858	216929	867716	411788	-5.09
69 Chrysene-d12	361809	180905	723618	362547	0.20
77 Perylene-d12	380407	190204	760814	370447	-2.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.96	-0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	-0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.00	-0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	-0.00
69 Chrysene-d12	23.06	22.56	23.56	23.07	0.03
77 Perylene-d12	25.62	25.12	26.12	25.62	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020705S.D

Lab ID: SLB0106-CAL6
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 14:14

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.958	0.000	0.9581	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207065.D

Date : 07-FEB-2023 14:52

Client ID:

Instrument: nt10.i

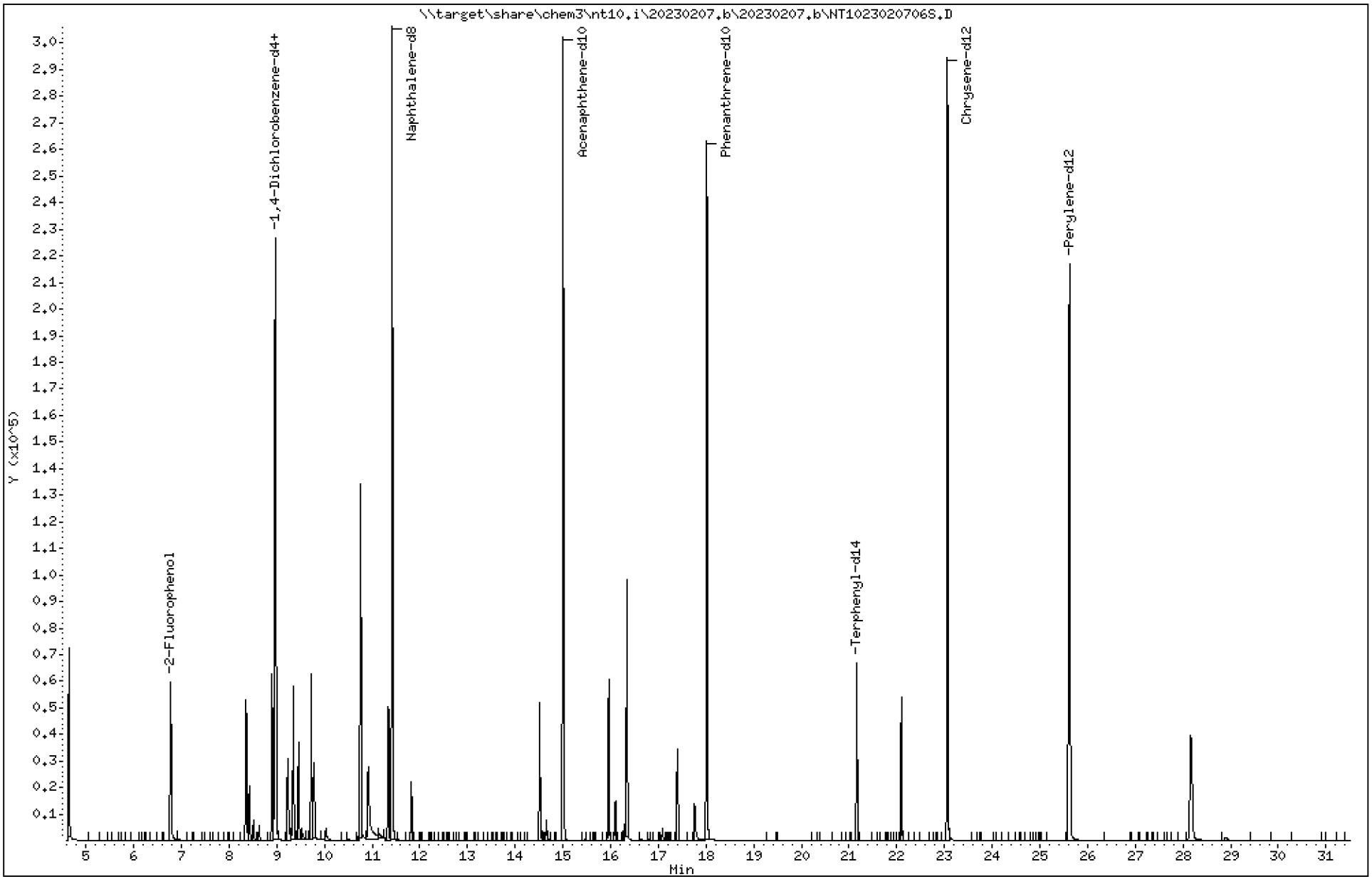
Sample Info: SLB0106-CAL5

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020706S.D
Lab Smp Id: SLB0106-CAL5
Inj Date : 07-FEB-2023 14:52 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-CAL5
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	6.777	6.785	(0.756)	62863	1.50000	1.605
3	Phenol	94	8.354	8.369	(0.932)	65997	1.00000	1.117
7	1,3-Dichlorobenzene	146	8.902	8.903	(0.993)	54598	1.00000	1.027
* 8	1,4-Dichlorobenzene-d4	152	8.965	8.965	(1.000)	128794	4.00000	
9	1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	52965	1.00000	1.019
11	Benzyl alcohol	79	9.228	9.267	(1.029)	30913	1.00000	1.073
12	1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	52621	1.00000	1.037
13	2-Methylphenol	108	9.454	9.469	(1.055)	43019	1.00000	1.067
15	4-Methylphenol	108	9.725	9.741	(1.085)	45335	1.00000	1.102
16	N-Nitroso-di-n-propylamine	70	9.780	9.780	(1.091)	31181	1.00000	1.062
22	2,4-Dimethylphenol	107	10.754	10.763	(0.942)	88576	2.00000	2.150
24	Benzoic acid	105	10.915	11.204	(0.956)	55939	4.00000	2.893
26	1,2,4-Trichlorobenzene	180	11.334	11.342	(0.993)	40400	1.00000	1.046
* 27	Naphthalene-d8	136	11.419	11.419	(1.000)	469043	4.00000	
30	Hexachlorobutadiene	225	11.829	11.829	(1.036)	21981	1.00000	1.042
39	Dimethylphthalate	163	14.514	14.514	(0.968)	58903	1.00000	1.084
* 42	Acenaphthene-d10	162	15.002	15.002	(1.000)	233225	4.00000	
50	Diethylphthalate	149	15.960	15.961	(1.064)	89176	1.00000	1.089
54	N-Nitrosodiphenylamine	169	16.339	16.346	(0.907)	75540	1.00000	1.054
57	Hexachlorobenzene	284	17.396	17.404	(0.966)	32042	1.00000	1.050

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	17.760	17.799	(0.986)	19774	2.00000	1.834
*	59 Phenanthrene-d10	188	18.015	18.015	(1.000)	433858	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.918)	84008	1.00000	1.046
	67 Butylbenzylphthalate	149	22.093	22.094	(0.958)	61304	1.00000	1.129
*	69 Chrysene-d12	240	23.061	23.061	(1.000)	361809	4.00000	
*	77 Perylene-d12	264	25.616	25.616	(1.000)	380407	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.165	28.188	(1.100)	112719	1.00000	1.057
	90 N-Nitrosodimethylamine	74	4.638	4.646	(0.517)	55635	2.00000	2.168

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020706S.D
Lab Smp Id: SLB0106-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	128794	0.00
27 Naphthalene-d8	469043	234522	938086	469043	0.00
42 Acenaphthene-d10	233225	116613	466450	233225	0.00
59 Phenanthrene-d10	433858	216929	867716	433858	0.00
69 Chrysene-d12	361809	180905	723618	361809	0.00
77 Perylene-d12	380407	190204	760814	380407	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.96	0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.00	0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.00
69 Chrysene-d12	23.06	22.56	23.56	23.06	0.00
77 Perylene-d12	25.62	25.12	26.12	25.62	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020706S.D

Lab ID: SLB0106-CAL5
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 14:52

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.956	0.000	0.9559	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207075.D

Page 1

Date : 07-FEB-2023 15:30

Client ID:

Instrument: nt10.i

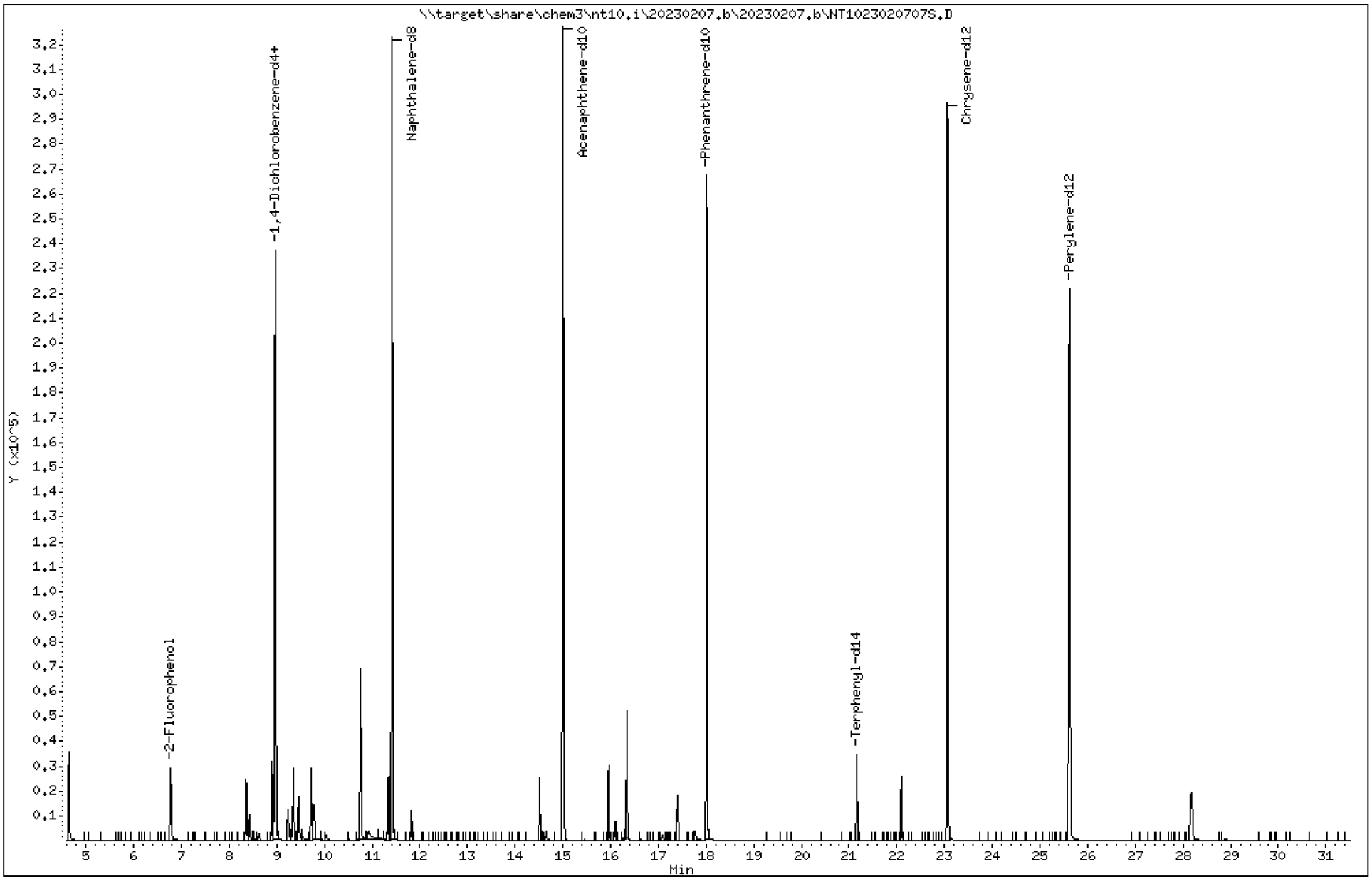
Sample Info: SLB0106-CAL4

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020707S.D
Lab Smp Id: SLB0106-CAL4
Inj Date : 07-FEB-2023 15:30 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-CAL4
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.777	6.785	(0.756)	32118	0.75000	0.7848
	3 Phenol	94	8.354	8.369	(0.932)	33003	0.50000	0.5348
	7 1,3-Dichlorobenzene	146	8.903	8.903	(0.993)	28430	0.50000	0.5116
*	8 1,4-Dichlorobenzene-d4	152	8.965	8.965	(1.000)	134585	4.00000	
	9 1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	27668	0.50000	0.5092
	11 Benzyl alcohol	79	9.236	9.267	(1.030)	14023	0.50000	0.4658
	12 1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	27026	0.50000	0.5096
	13 2-Methylphenol	108	9.454	9.469	(1.055)	22060	0.50000	0.5236
	15 4-Methylphenol	108	9.725	9.741	(1.085)	22742	0.50000	0.5292
	16 N-Nitroso-di-n-propylamine	70	9.780	9.780	(1.091)	15703	0.50000	0.5119
	22 2,4-Dimethylphenol	107	10.754	10.763	(0.942)	46501	1.00000	1.074
	24 Benzoic acid	105	10.916	11.204	(0.956)	13988	2.00000	0.6970
	26 1,2,4-Trichlorobenzene	180	11.334	11.342	(0.993)	20892	0.50000	0.5149
*	27 Naphthalene-d8	136	11.419	11.419	(1.000)	492819	4.00000	
	30 Hexachlorobutadiene	225	11.821	11.829	(1.035)	11319	0.50000	0.5109
	39 Dimethylphthalate	163	14.514	14.514	(0.968)	30025	0.50000	0.5336
*	42 Acenaphthene-d10	162	15.002	15.002	(1.000)	241419	4.00000	
	50 Diethylphthalate	149	15.960	15.961	(1.064)	44405	0.50000	0.5240
	54 N-Nitrosodiphenylamine	169	16.339	16.346	(0.907)	38657	0.50000	0.5154
	57 Hexachlorobenzene	284	17.404	17.404	(0.966)	16530	0.50000	0.5179

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
58	Pentachlorophenol	266	17.768	17.799	(0.986)	7222	1.00000	0.6471
* 59	Phenanthrene-d10	188	18.015	18.015	(1.000)	453837	4.00000	
$ 66	Terphenyl-d14	244	21.164	21.164	(0.918)	43084	0.50000	0.5136
67	Butylbenzylphthalate	149	22.093	22.094	(0.958)	29952	0.50000	0.5282
* 69	Chrysene-d12	240	23.061	23.061	(1.000)	377942	4.00000	
* 77	Perylene-d12	264	25.616	25.616	(1.000)	396018	4.00000	
79	Dibenzo(a,h)anthracene	278	28.173	28.188	(1.100)	56124	0.50000	0.5057
90	N-Nitrosodimethylamine	74	4.638	4.646	(0.517)	28425	1.00000	1.060

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020707S.D
Lab Smp Id: SLB0106-CAL4
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	134585	4.50
27 Naphthalene-d8	469043	234522	938086	492819	5.07
42 Acenaphthene-d10	233225	116613	466450	241419	3.51
59 Phenanthrene-d10	433858	216929	867716	453837	4.60
69 Chrysene-d12	361809	180905	723618	377942	4.46
77 Perylene-d12	380407	190204	760814	396018	4.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.97	0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.00	0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.00
69 Chrysene-d12	23.06	22.56	23.56	23.06	0.00
77 Perylene-d12	25.62	25.12	26.12	25.62	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020707S.D

Lab ID: SLB0106-CAL4
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 15:30

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.956	0.000	0.9559	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207085.D

Page 1

Date : 07-FEB-2023 16:09

Client ID:

Instrument: nt10.i

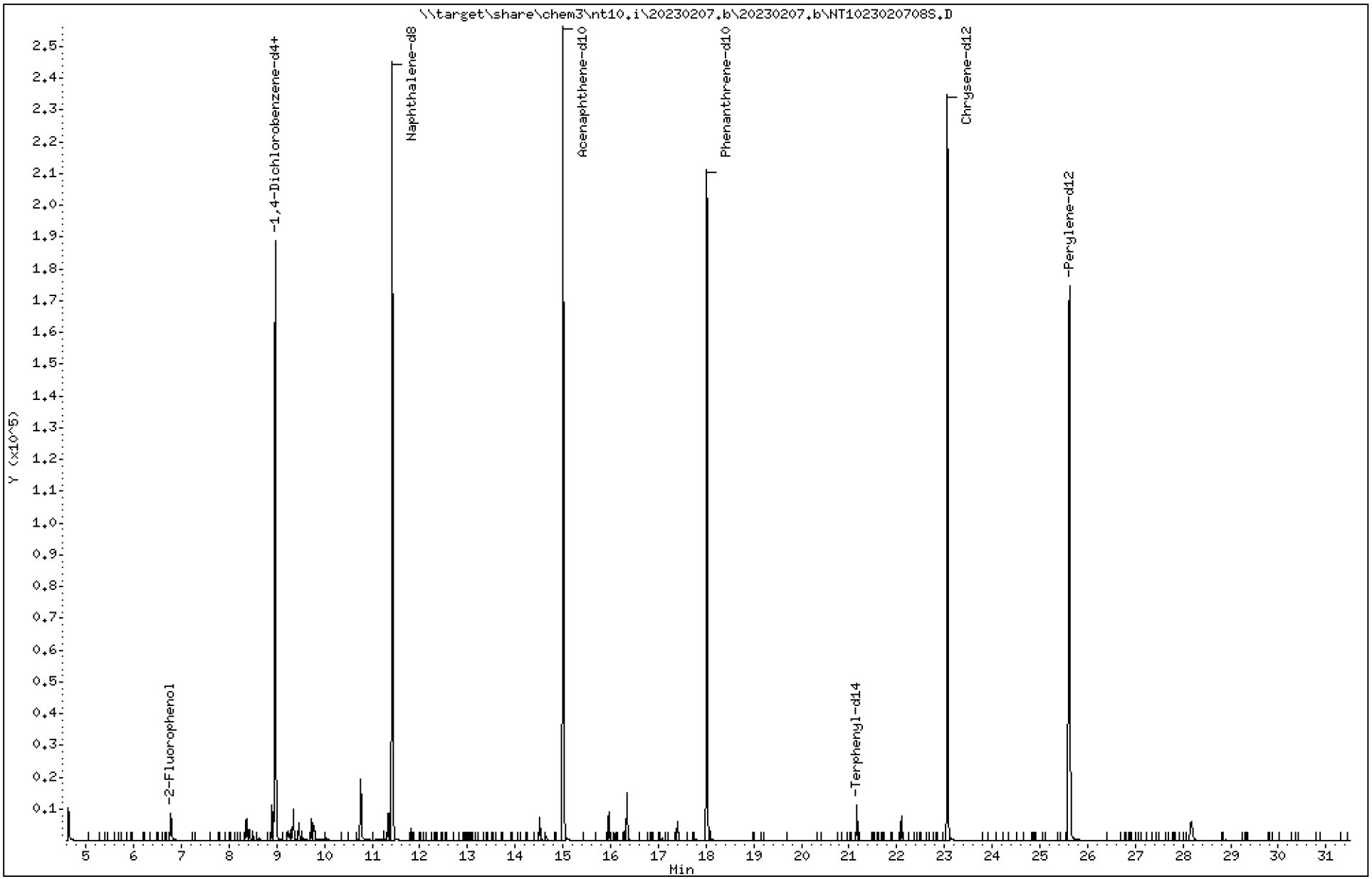
Sample Info: SLB0106-CAL3

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020708S.D
Lab Smp Id: SLB0106-CAL3
Inj Date : 07-FEB-2023 16:09 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-CAL3
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	6.777	6.785	(0.756)	10908	0.30000	0.3232
3	Phenol	94	8.361	8.369	(0.933)	10516	0.20000	0.2066
7	1,3-Dichlorobenzene	146	8.902	8.903	(0.993)	9717	0.20000	0.2120
* 8	1,4-Dichlorobenzene-d4	152	8.964	8.965	(1.000)	110996	4.00000	
9	1,4-Dichlorobenzene	146	8.995	8.996	(1.003)	9529	0.20000	0.2126
11	Benzyl alcohol	79	9.244	9.267	(1.031)	5199	0.20000	0.2094
12	1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	9256	0.20000	0.2116
13	2-Methylphenol	108	9.461	9.469	(1.055)	7131	0.20000	0.2052
15	4-Methylphenol	108	9.733	9.741	(1.086)	7110	0.20000	0.2006
16	N-Nitroso-di-n-propylamine	70	9.779	9.780	(1.091)	5168	0.20000	0.2043
22	2,4-Dimethylphenol	107	10.754	10.763	(0.942)	15109	0.40000	0.4296
24	Benzoic acid	105	11.204	11.204	(0.981)	686	0.80000	0.04222(M)
26	1,2,4-Trichlorobenzene	180	11.334	11.342	(0.993)	7038	0.20000	0.2135
* 27	Naphthalene-d8	136	11.419	11.419	(1.000)	400386	4.00000	
30	Hexachlorobutadiene	225	11.828	11.829	(1.036)	3870	0.20000	0.2150
39	Dimethylphthalate	163	14.514	14.514	(0.968)	9537	0.20000	0.2063
* 42	Acenaphthene-d10	162	15.001	15.002	(1.000)	198387	4.00000	
50	Diethylphthalate	149	15.960	15.961	(1.064)	13877	0.20000	0.1993
54	N-Nitrosodiphenylamine	169	16.338	16.346	(0.907)	12642	0.20000	0.2094
57	Hexachlorobenzene	284	17.403	17.404	(0.966)	5450	0.20000	0.2121

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	17.775	17.799	(0.987)	1100	0.40000	0.1230(M)
*	59 Phenanthrene-d10	188	18.015	18.015	(1.000)	365385	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.918)	13976	0.20000	0.2118
	67 Butylbenzylphthalate	149	22.093	22.094	(0.958)	8910	0.20000	0.1998
*	69 Chrysene-d12	240	23.061	23.061	(1.000)	297264	4.00000	
*	77 Perylene-d12	264	25.616	25.616	(1.000)	312718	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.172	28.188	(1.100)	18118	0.20000	0.2067
	90 N-Nitrosodimethylamine	74	4.630	4.646	(0.517)	9017	0.40000	0.4077

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020708S.D
Lab Smp Id: SLB0106-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	110996	-13.82
27 Naphthalene-d8	469043	234522	938086	400386	-14.64
42 Acenaphthene-d10	233225	116613	466450	198387	-14.94
59 Phenanthrene-d10	433858	216929	867716	365385	-15.78
69 Chrysene-d12	361809	180905	723618	297264	-17.84
77 Perylene-d12	380407	190204	760814	312718	-17.79

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.96	-0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	-0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.00	-0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	-0.00
69 Chrysene-d12	23.06	22.56	23.56	23.06	-0.00
77 Perylene-d12	25.62	25.12	26.12	25.62	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020708S.D

Lab ID: SLB0106-CAL3
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 16:09

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.981	0.000	0.9811	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

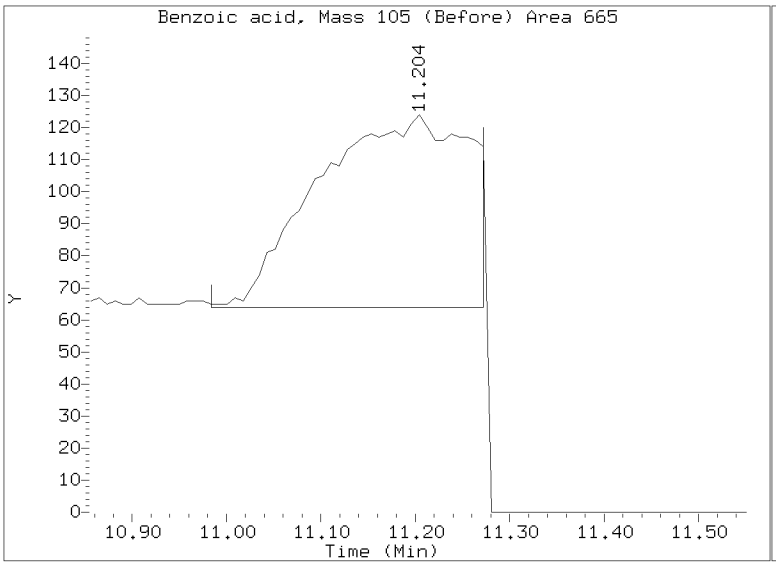
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

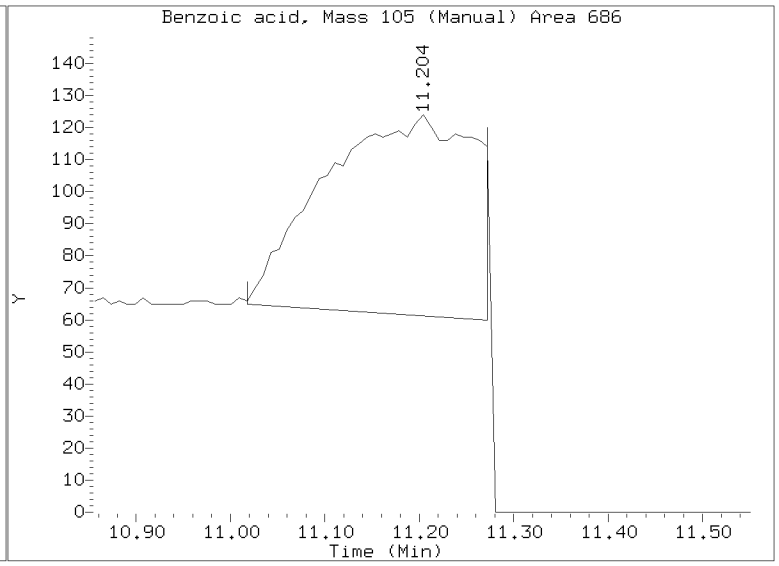
Exception: 1,2,4-Trichlorobenzene 0.0010

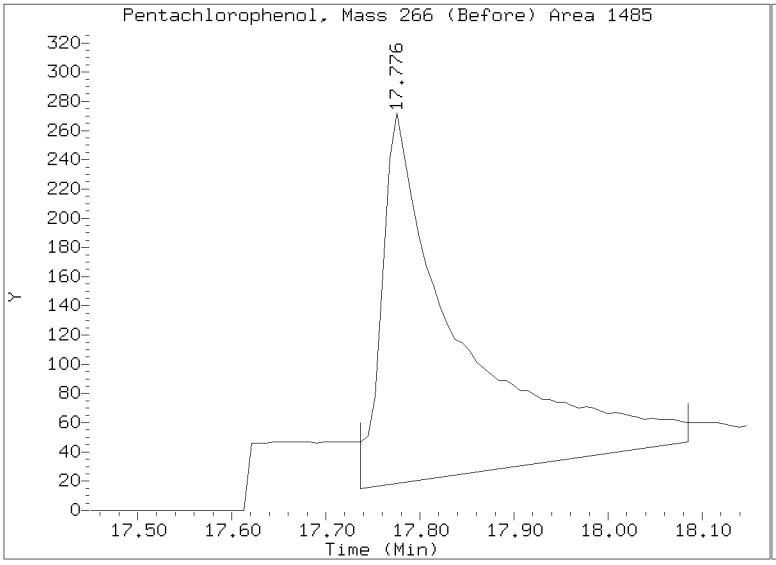
* Only compounds listed in the work order have been verified by the analyst *

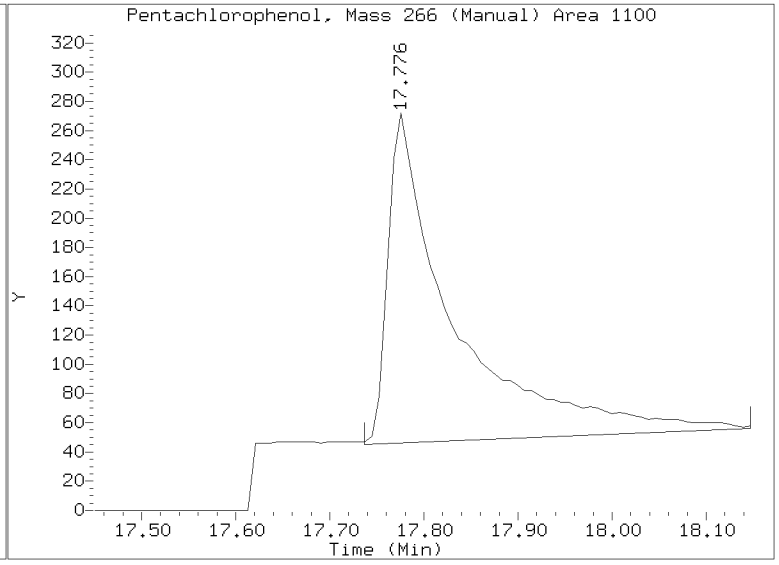
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020708S.D
Injection Date: 07-FEB-2023 16:09
Lab ID:SLB0106-CAL3 Client ID:
Report Date: 02/09/2023 12:53









Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207095.D

Page 1

Date : 07-FEB-2023 16:47

Client ID:

Instrument: nt10.i

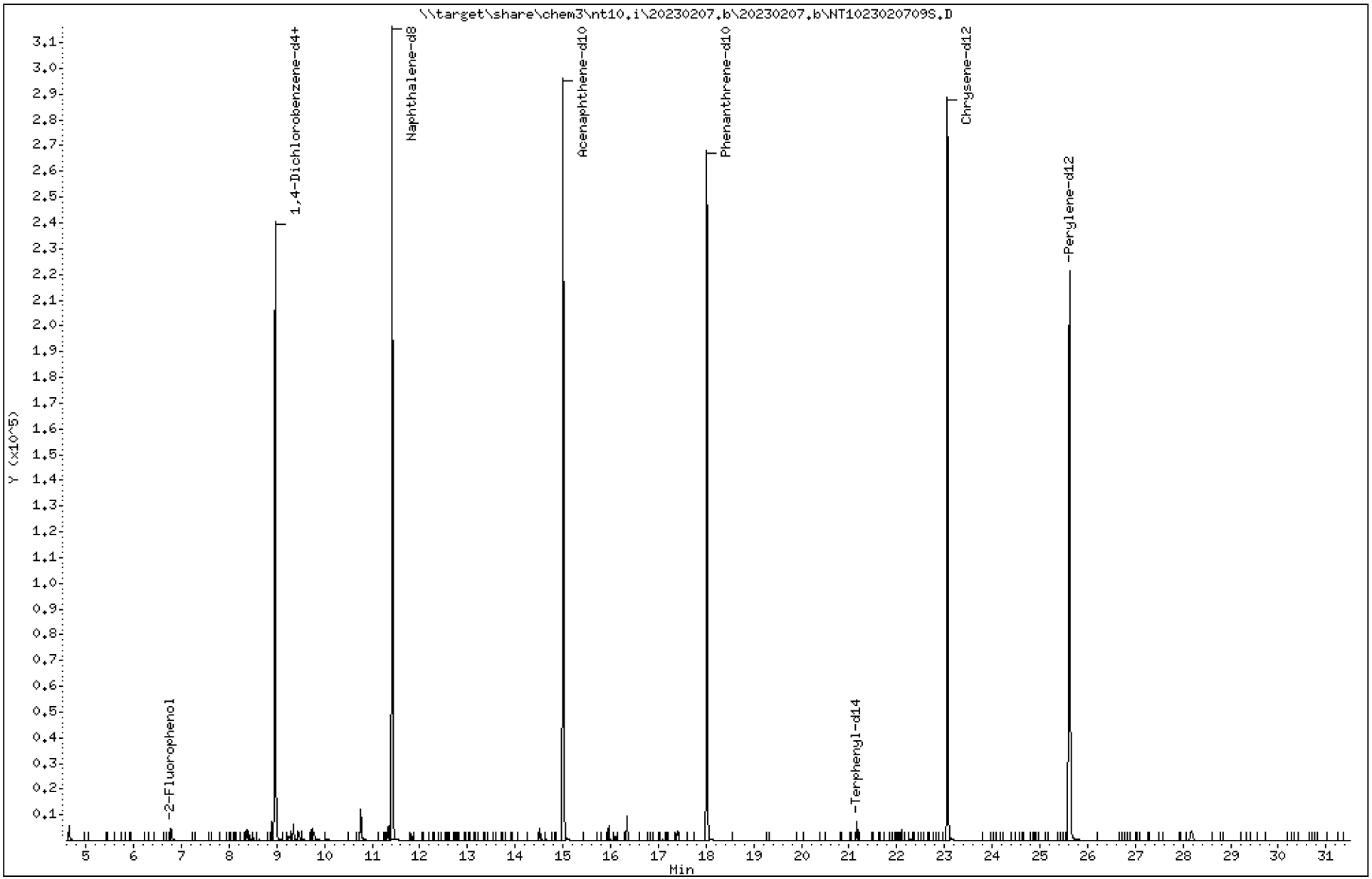
Sample Info: SLB0106-CAL2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020709S.D
Lab Smp Id: SLB0106-CAL2
Inj Date : 07-FEB-2023 16:47 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-CAL2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.777	6.785	(0.756)	6866	0.15000	0.1650
	3 Phenol	94	8.361	8.369	(0.933)	6496	0.10000	0.1035
	7 1,3-Dichlorobenzene	146	8.902	8.903	(0.993)	6394	0.10000	0.1131
*	8 1,4-Dichlorobenzene-d4	152	8.964	8.965	(1.000)	136875	4.00000	
	9 1,4-Dichlorobenzene	146	8.995	8.996	(1.003)	6242	0.10000	0.1130
	11 Benzyl alcohol	79	9.244	9.267	(1.031)	2957	0.10000	0.09658
	12 1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	6025	0.10000	0.1117
	13 2-Methylphenol	108	9.461	9.469	(1.055)	4604	0.10000	0.1074
	15 4-Methylphenol	108	9.733	9.741	(1.086)	4438	0.10000	0.1016
	16 N-Nitroso-di-n-propylamine	70	9.779	9.780	(1.091)	3610	0.10000	0.1157
	22 2,4-Dimethylphenol	107	10.763	10.763	(0.942)	9531	0.20000	0.2198
	24 Benzoic acid	105	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	4597	0.10000	0.1131
*	27 Naphthalene-d8	136	11.419	11.419	(1.000)	493562	4.00000	
	30 Hexachlorobutadiene	225	11.829	11.829	(1.036)	2483	0.10000	0.1119
	39 Dimethylphthalate	163	14.514	14.514	(0.968)	6211	0.10000	0.1098
*	42 Acenaphthene-d10	162	15.002	15.002	(1.000)	242772	4.00000	
	50 Diethylphthalate	149	15.960	15.961	(1.064)	8873	0.10000	0.1041
	54 N-Nitrosodiphenylamine	169	16.338	16.346	(0.907)	8408	0.10000	0.1138
	57 Hexachlorobenzene	284	17.403	17.404	(0.966)	3626	0.10000	0.1153

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	17.783	17.799	(0.987)	349	0.20000	0.03192(M)
*	59 Phenanthrene-d10	188	18.015	18.015	(1.000)	447005	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.918)	9076	0.10000	0.1115
	67 Butylbenzylphthalate	149	22.093	22.094	(0.958)	5564	0.10000	0.1011
*	69 Chrysene-d12	240	23.061	23.061	(1.000)	366662	4.00000	
*	77 Perylene-d12	264	25.616	25.616	(1.000)	385910	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.180	28.188	(1.100)	11716	0.10000	0.1083
	90 N-Nitrosodimethylamine	74	4.646	4.646	(0.518)	5690	0.20000	0.2086

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020709S.D
Lab Smp Id: SLB0106-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	136875	6.27
27 Naphthalene-d8	469043	234522	938086	493562	5.23
42 Acenaphthene-d10	233225	116613	466450	242772	4.09
59 Phenanthrene-d10	433858	216929	867716	447005	3.03
69 Chrysene-d12	361809	180905	723618	366662	1.34
77 Perylene-d12	380407	190204	760814	385910	1.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.96	-0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	-0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.00	-0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	-0.00
69 Chrysene-d12	23.06	22.56	23.56	23.06	-0.00
77 Perylene-d12	25.62	25.12	26.12	25.62	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020709S.D

Lab ID: SLB0106-CAL2
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 16:47

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

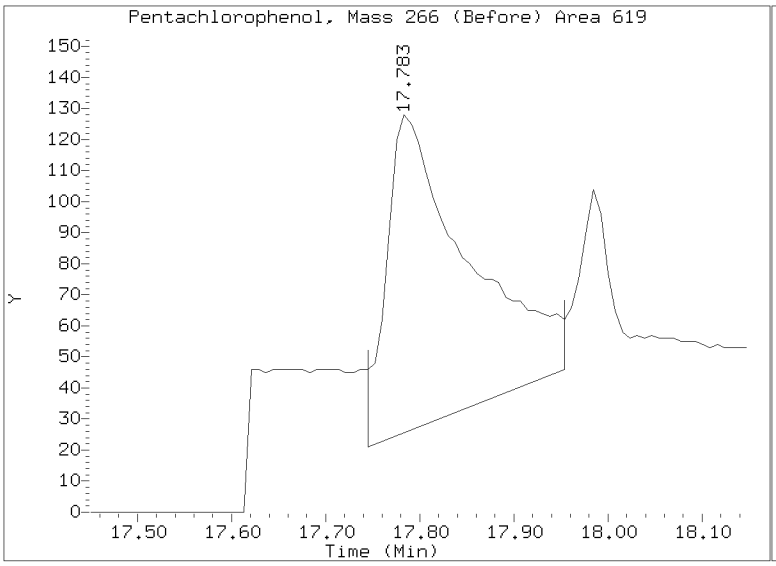
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

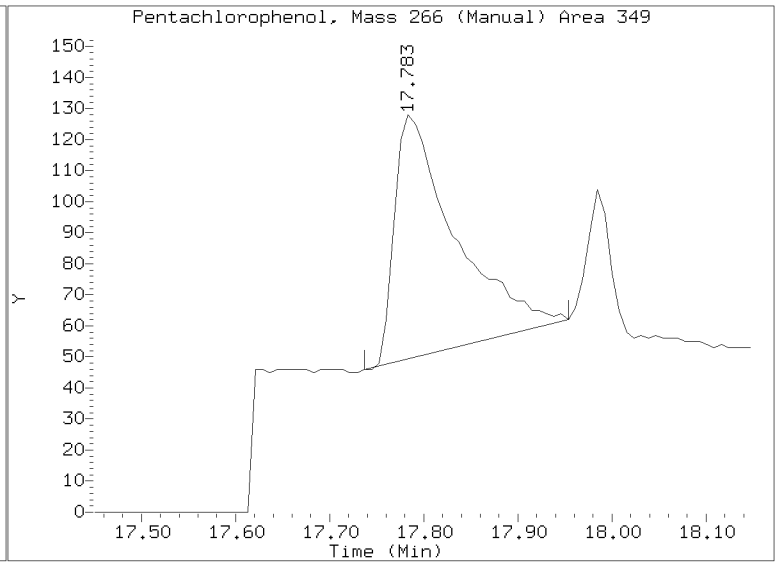
Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020709S.D
Injection Date: 07-FEB-2023 16:47
Lab ID:SLB0106-CAL2 Client ID:
Report Date: 02/09/2023 12:53





Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207105.D

Page 1

Date : 07-FEB-2023 17:25

Client ID:

Instrument: nt10.i

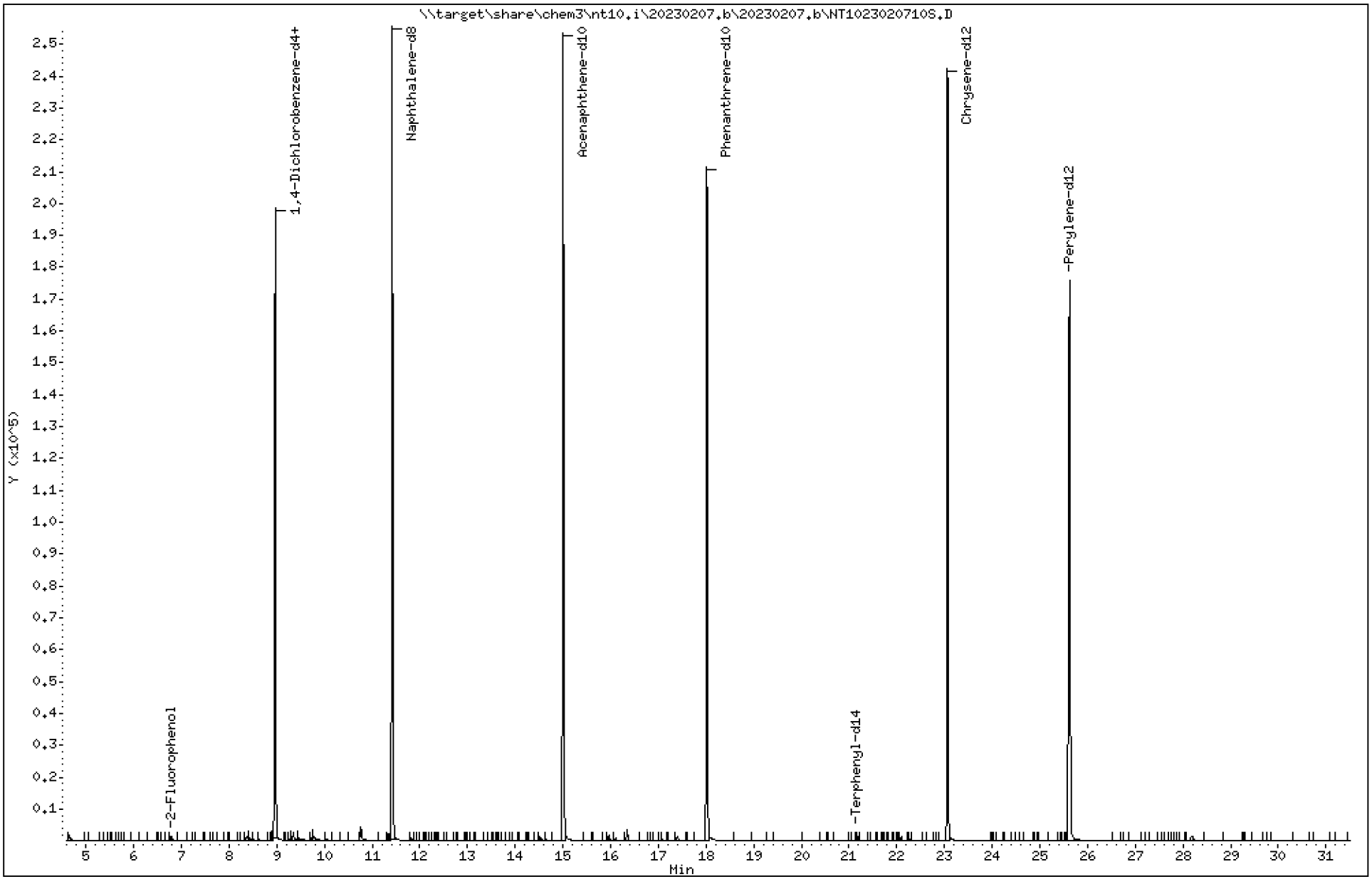
Sample Info: SLB0106-CAL1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020710S.D
Lab Smp Id: SLB0106-CAL1
Inj Date : 07-FEB-2023 17:25 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-CAL1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	6.785	6.785	(0.757)	2235	0.07500	0.06437
3	Phenol	94	8.369	8.369	(0.934)	2256	0.05000	0.04309
7	1,3-Dichlorobenzene	146	8.903	8.903	(0.993)	2492	0.05000	0.05286
* 8	1,4-Dichlorobenzene-d4	152	8.965	8.965	(1.000)	114171	4.00000	
9	1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	2493	0.05000	0.05408
11	Benzyl alcohol	79	9.267	9.267	(1.034)	889	0.05000	0.03481(M)
12	1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	2382	0.05000	0.05295
13	2-Methylphenol	108	9.469	9.469	(1.056)	1746	0.05000	0.04885
15	4-Methylphenol	108	9.741	9.741	(1.087)	1570	0.05000	0.04307
16	N-Nitroso-di-n-propylamine	70	9.780	9.780	(1.091)	1075	0.05000	0.04131(M)
22	2,4-Dimethylphenol	107	10.763	10.763	(0.943)	3584	0.10000	0.09862
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	1783	0.05000	0.05234
* 27	Naphthalene-d8	136	11.419	11.419	(1.000)	413714	4.00000	
30	Hexachlorobutadiene	225	11.829	11.829	(1.036)	975	0.05000	0.05242(M)
39	Dimethylphthalate	163	14.514	14.514	(0.968)	2326	0.05000	0.04958
* 42	Acenaphthene-d10	162	15.002	15.002	(1.000)	201294	4.00000	
50	Diethylphthalate	149	15.960	15.961	(1.064)	3764	0.05000	0.05327
54	N-Nitrosodiphenylamine	169	16.346	16.346	(0.907)	3338	0.05000	0.05337
57	Hexachlorobenzene	284	17.404	17.404	(0.966)	1405	0.05000	0.05278(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	17.799	17.799	(0.988)	43	0.10000	0.004645(M)
*	59 Phenanthrene-d10	188	18.015	18.015	(1.000)	378490	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.918)	3550	0.05000	0.05142
	67 Butylbenzylphthalate	149	22.093	22.094	(0.958)	1953	0.05000	0.04185(M)
*	69 Chrysene-d12	240	23.061	23.061	(1.000)	311028	4.00000	
*	77 Perylene-d12	264	25.616	25.616	(1.000)	320643	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.188	28.188	(1.100)	4334	0.05000	0.04823(M)
	90 N-Nitrosodimethylamine	74	4.646	4.646	(0.518)	2003	0.10000	0.08804

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020710S.D
Lab Smp Id: SLB0106-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	114171	-11.35
27 Naphthalene-d8	469043	234522	938086	413714	-11.80
42 Acenaphthene-d10	233225	116613	466450	201294	-13.69
59 Phenanthrene-d10	433858	216929	867716	378490	-12.76
69 Chrysene-d12	361809	180905	723618	311028	-14.04
77 Perylene-d12	380407	190204	760814	320643	-15.71

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.97	0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.00	0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.00
69 Chrysene-d12	23.06	22.56	23.56	23.06	0.00
77 Perylene-d12	25.62	25.12	26.12	25.62	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020710S.D

Lab ID: SLB0106-CAL1
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 17:25

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

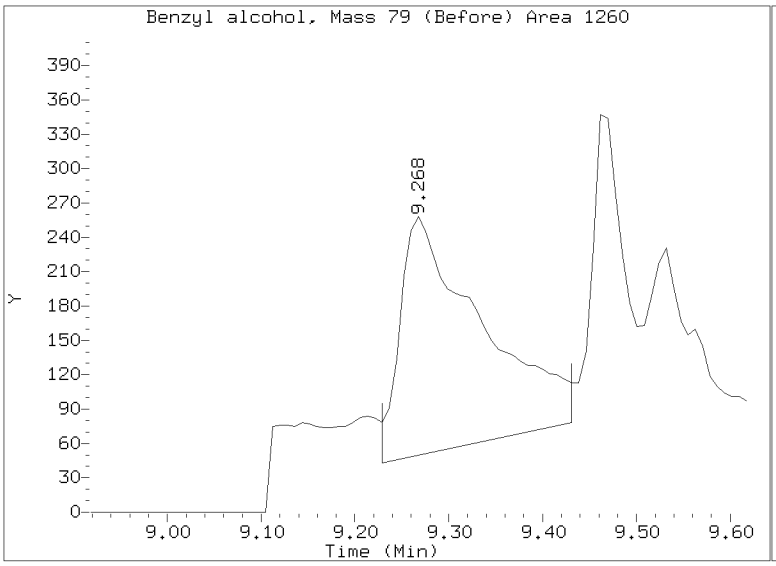
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

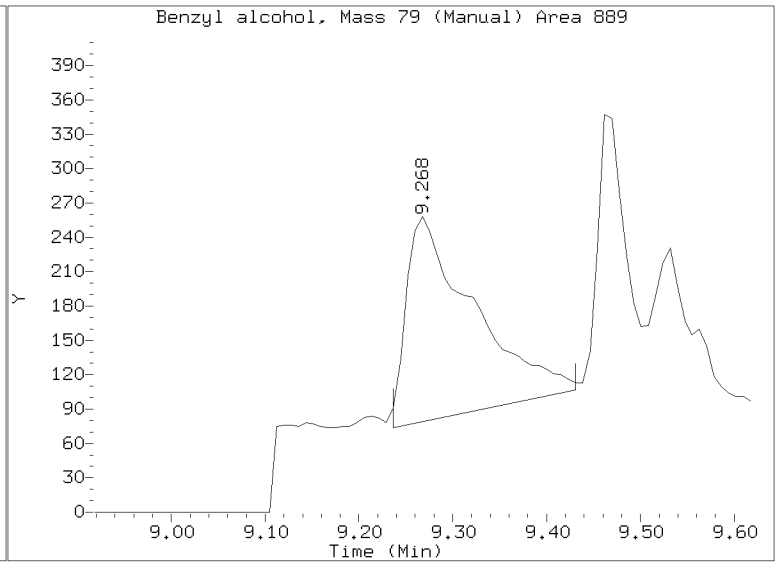
Exception: 1,2,4-Trichlorobenzene 0.0010

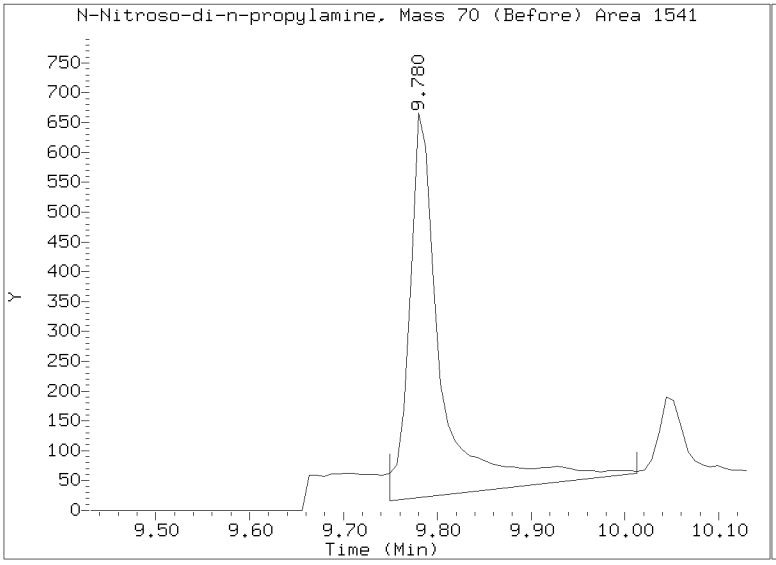
* Only compounds listed in the work order have been verified by the analyst *

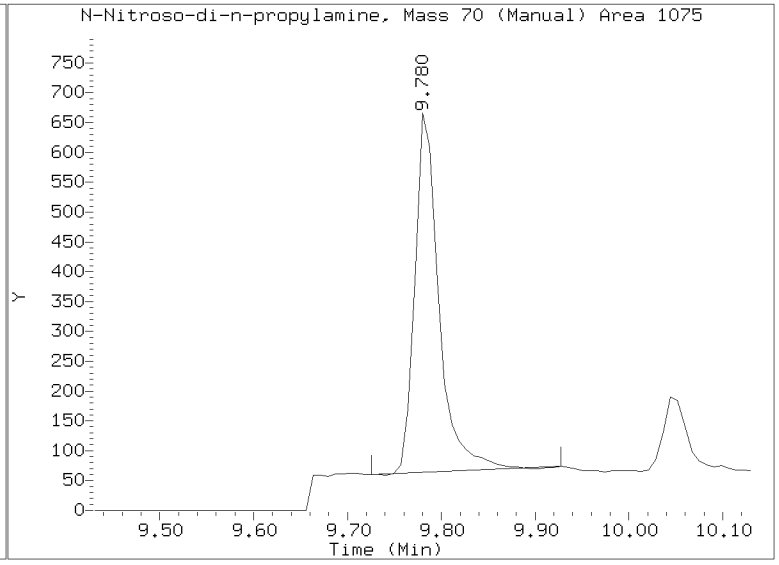
Quant Ion Manual Peak Adjustment Report

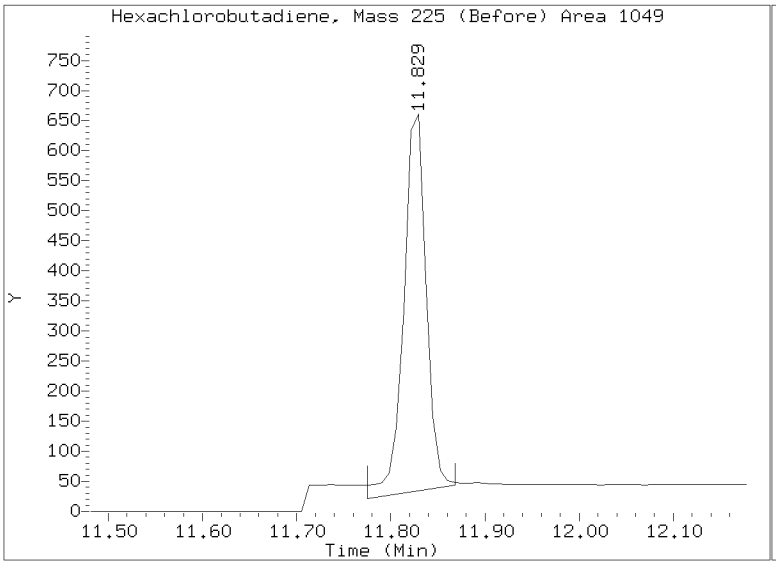
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020710S.D
Injection Date: 07-FEB-2023 17:25
Lab ID:SLB0106-CAL1 Client ID:
Report Date: 02/09/2023 12:53

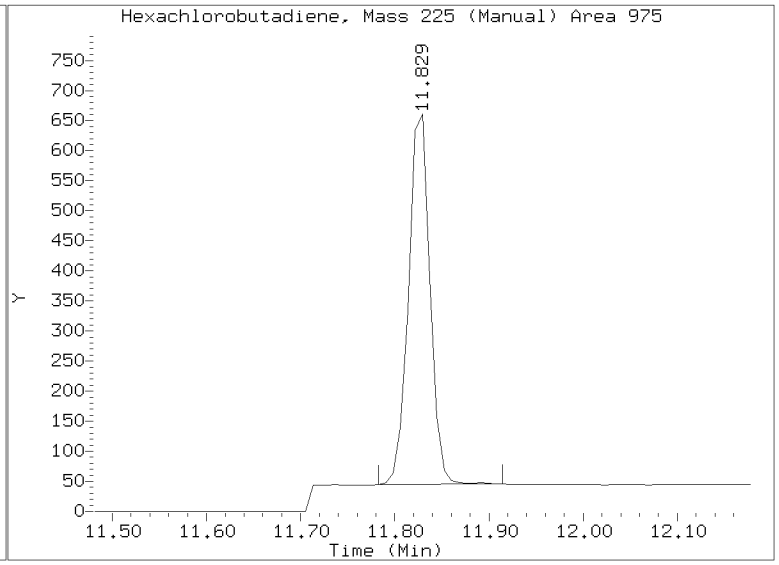












Quant Ion Manual Peak Adjustment Report

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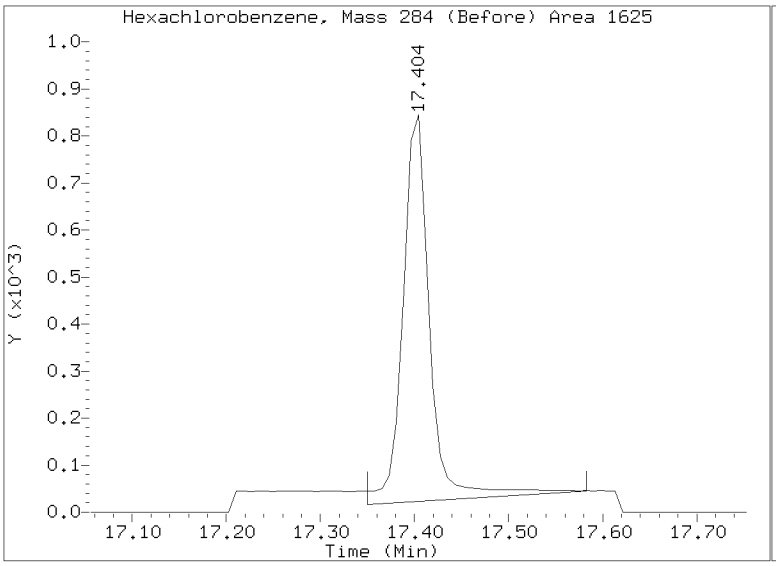
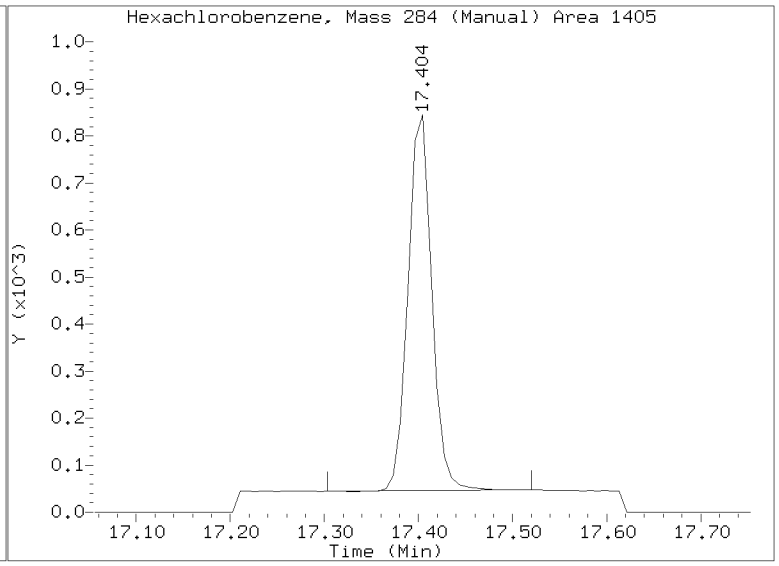
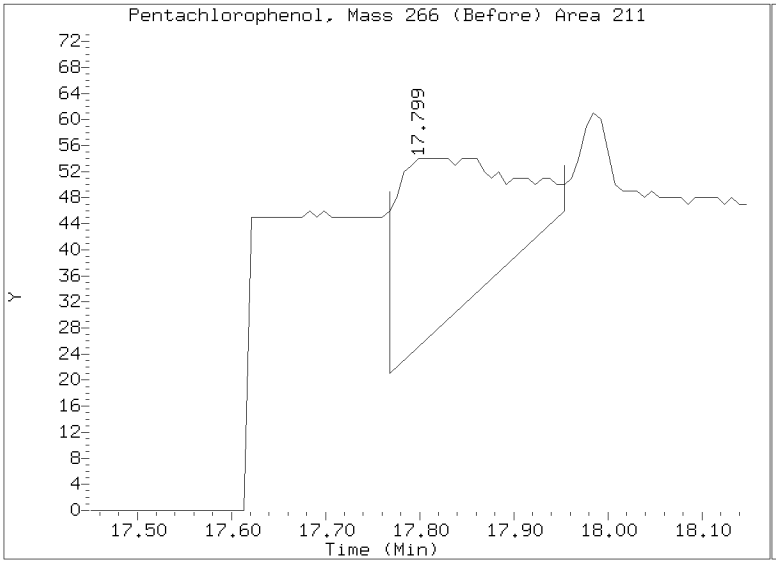
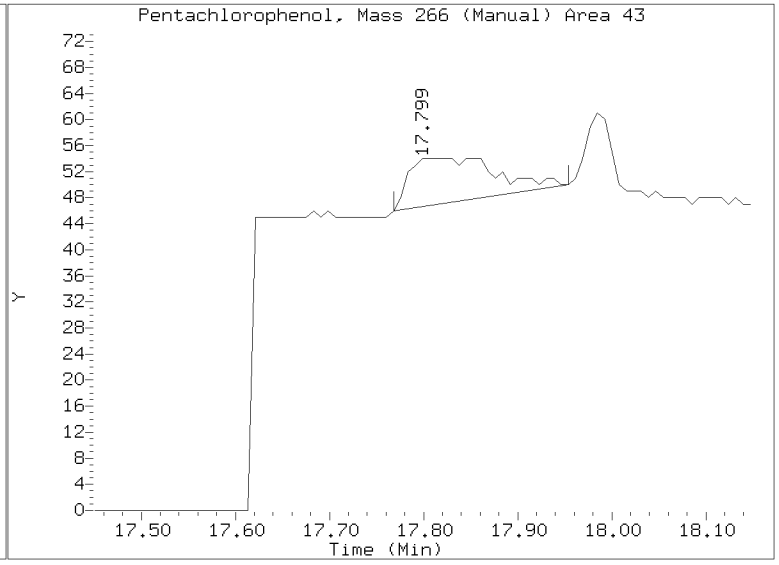
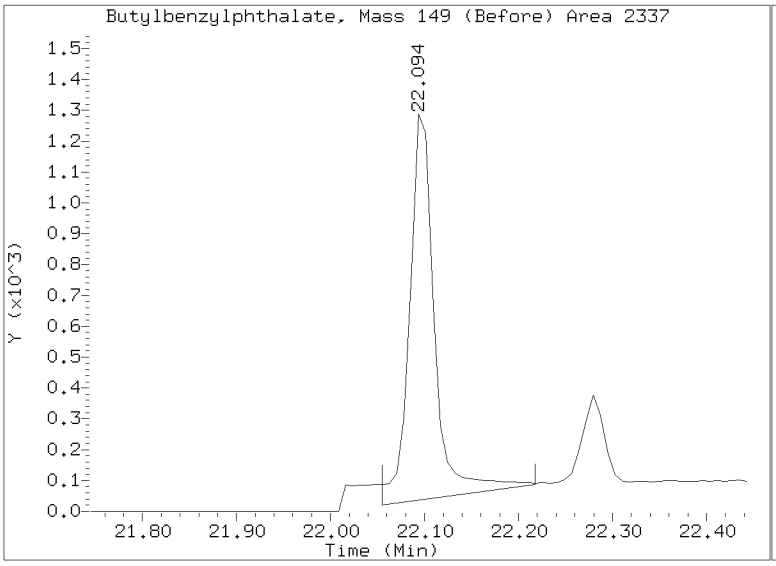
Injection Date: 07-FEB-2023 17:25
Lab ID:SLB0106-CAL1 Client ID:
Report Date: 02/09/2023 12:53

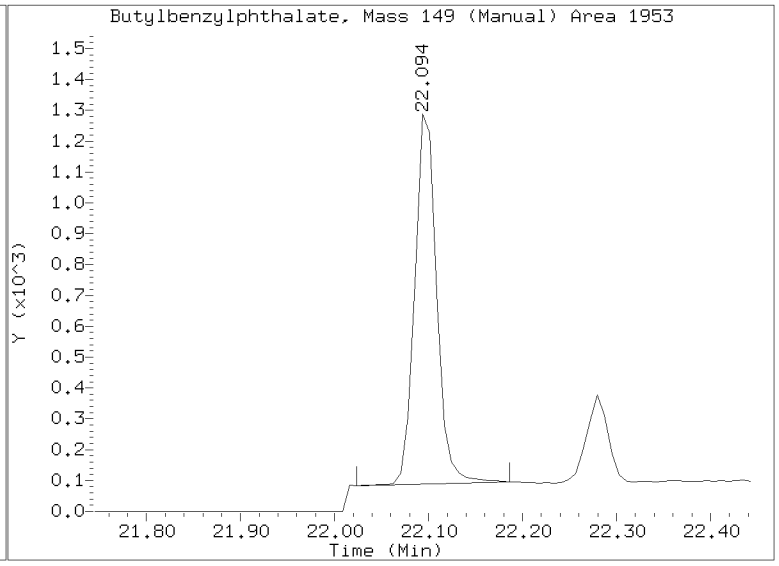












Quant Ion Manual Peak Adjustment Report

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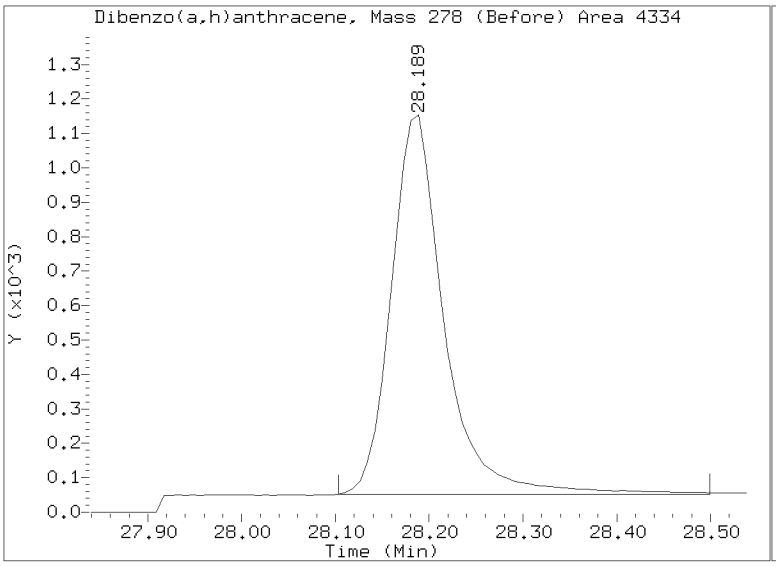
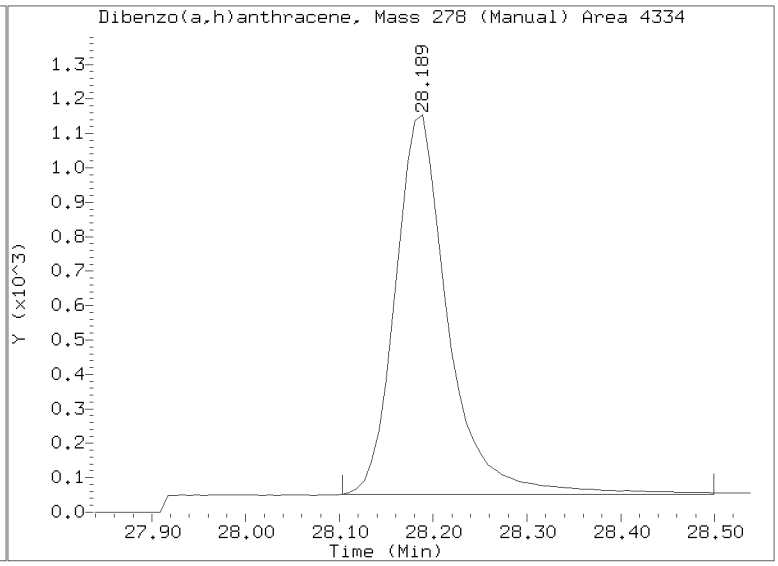
Injection Date: 07-FEB-2023 17:25
Lab ID:SLB0106-CAL1 Client ID:
Report Date: 02/09/2023 12:53





Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207111S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

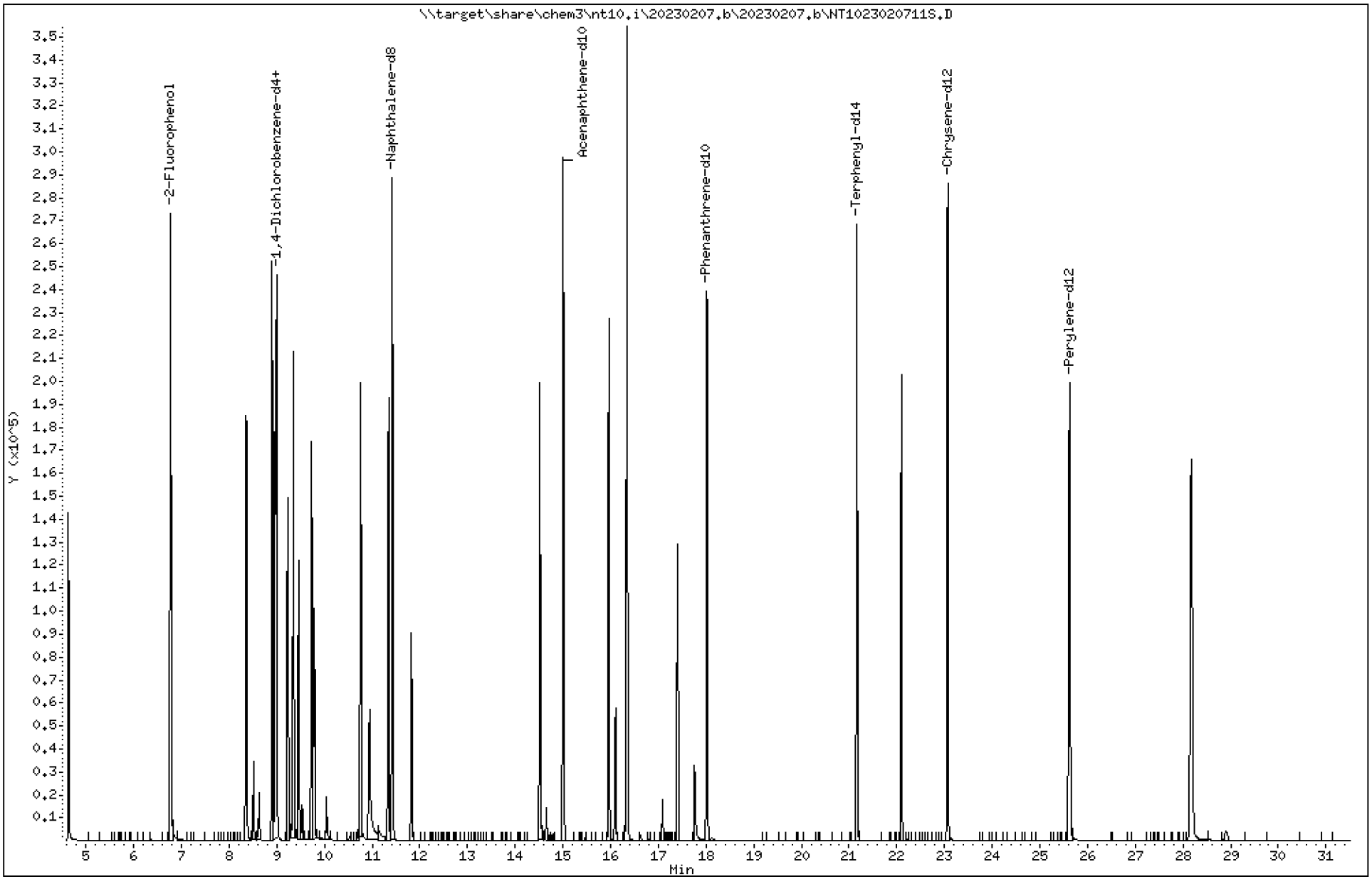
Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

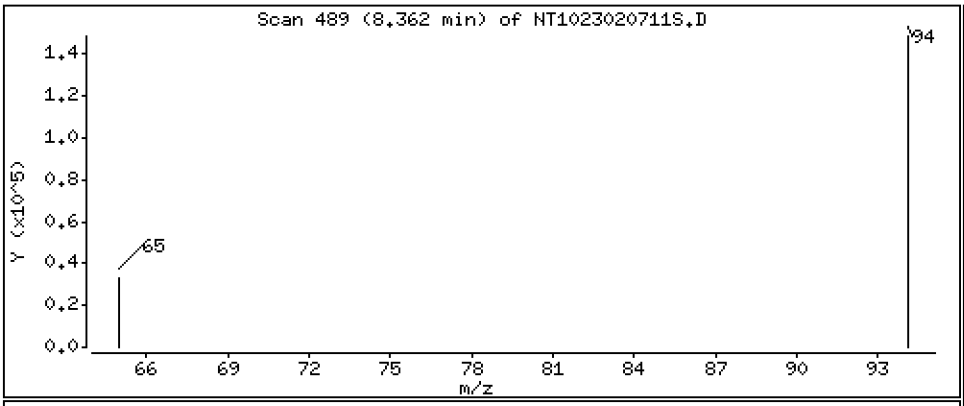
Operator: DSD

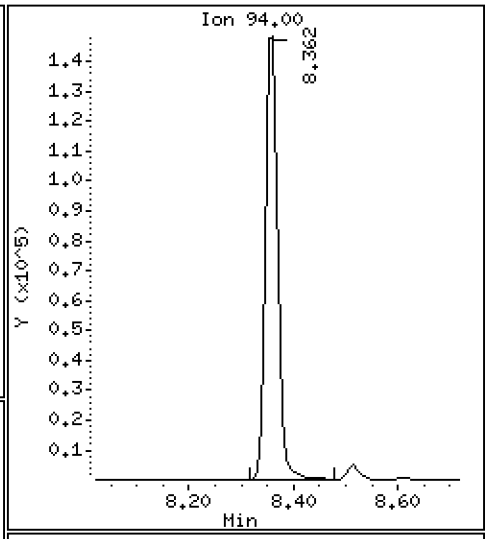
Column phase: ZB-5msi

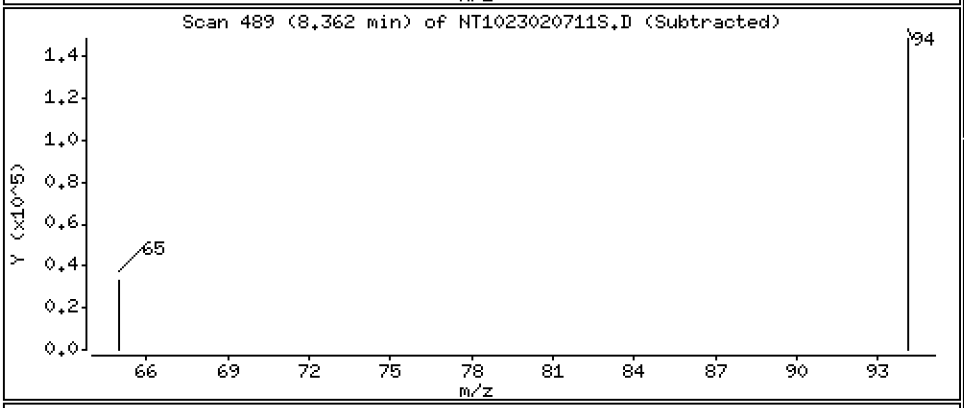
Column diameter: 0.25

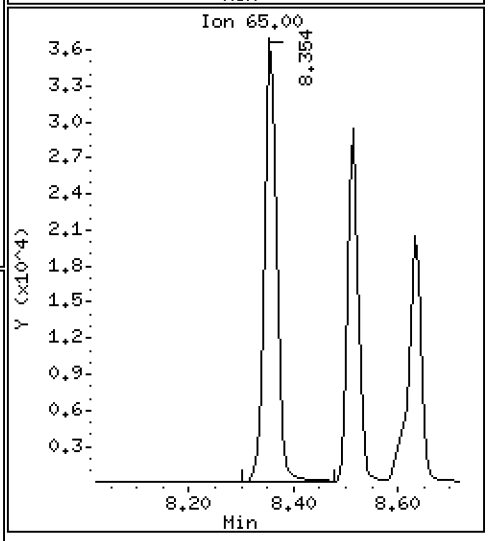
3 Phenol

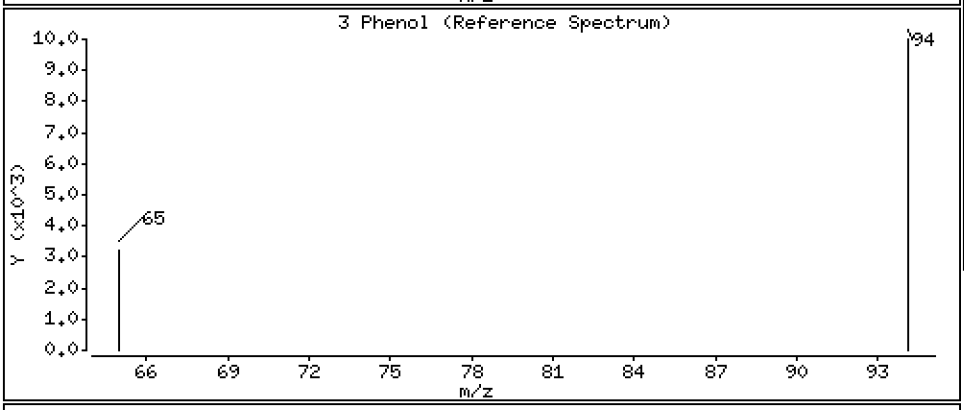
Concentration: 4.170 ug/L

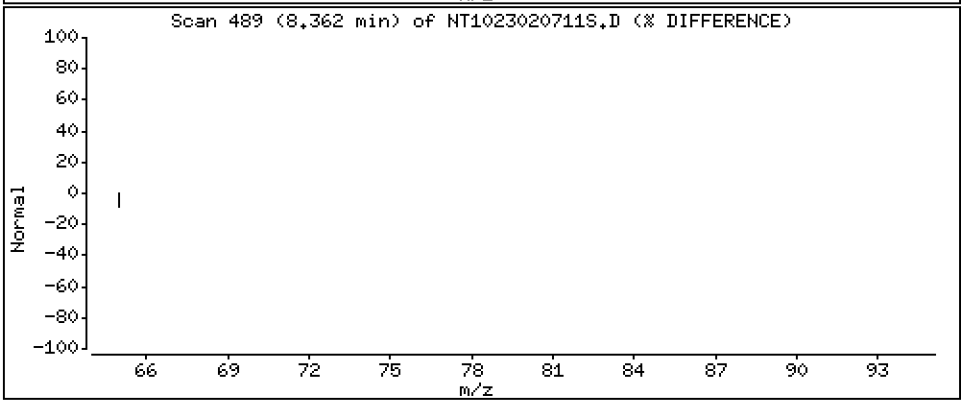












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

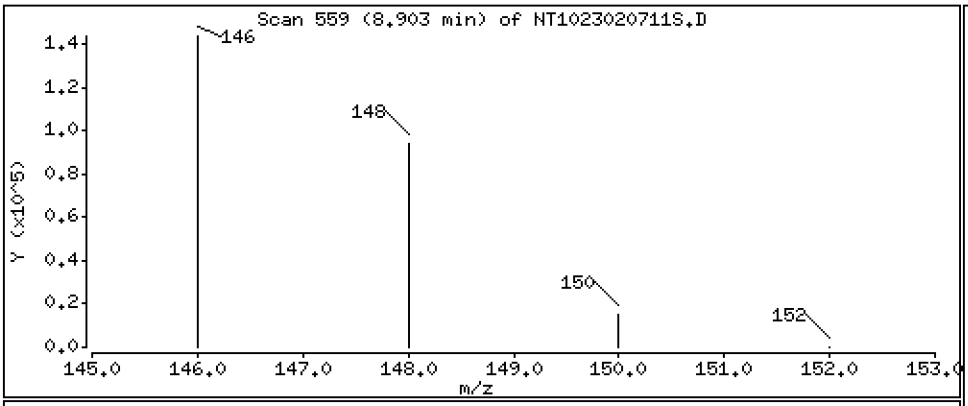
Operator: DSD

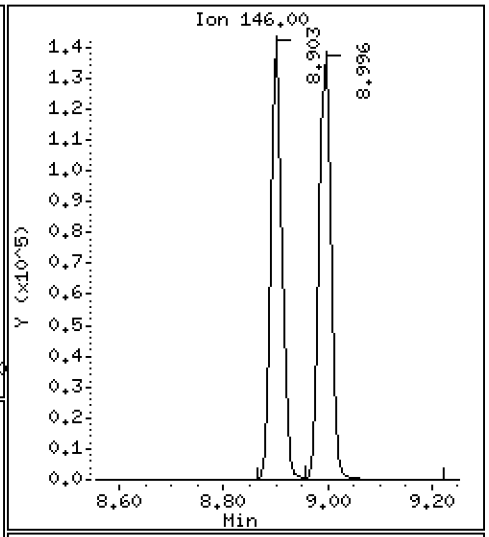
Column phase: ZB-5msi

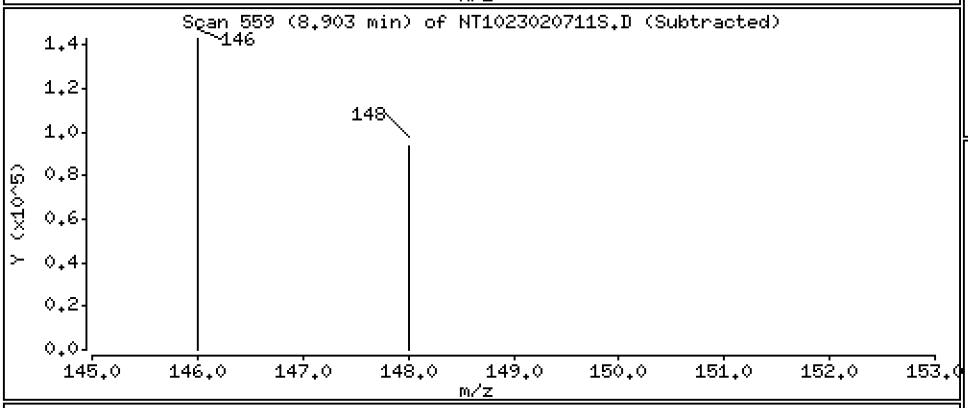
Column diameter: 0.25

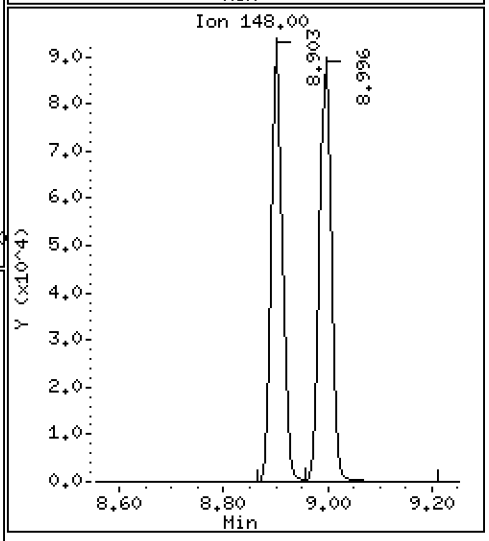
7 1,3-Dichlorobenzene

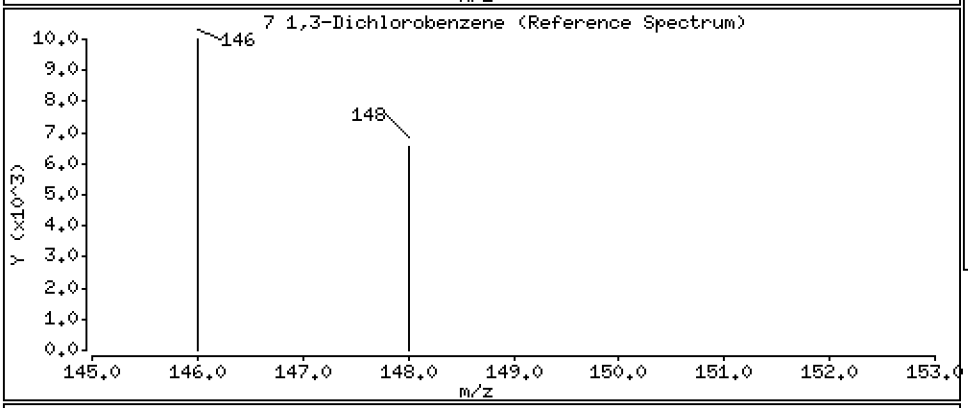
Concentration: 4.159 ug/L

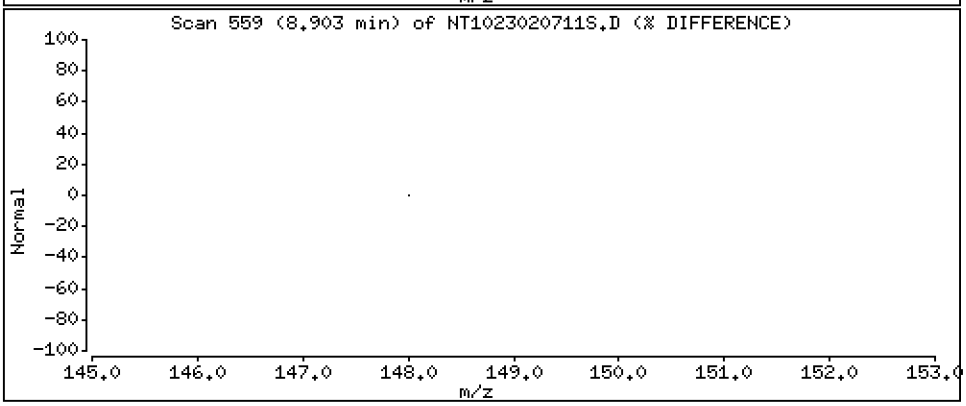












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

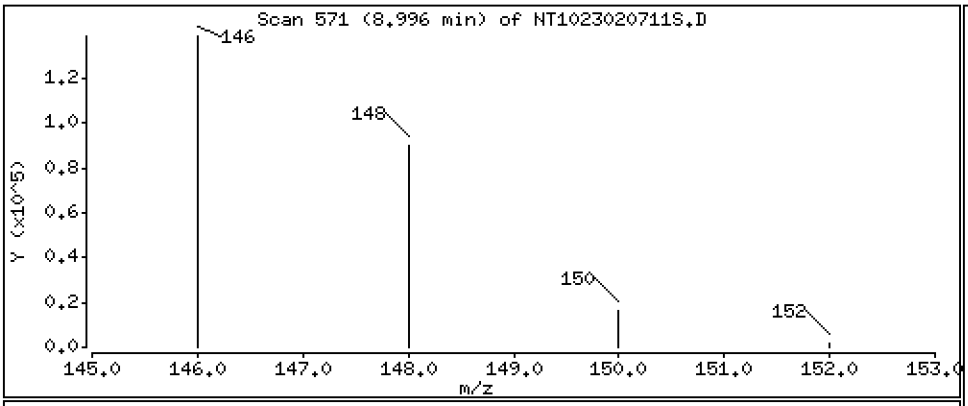
Operator: DSD

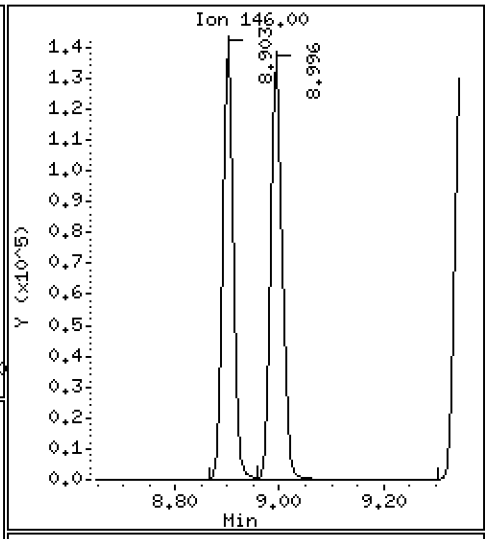
Column phase: ZB-5msi

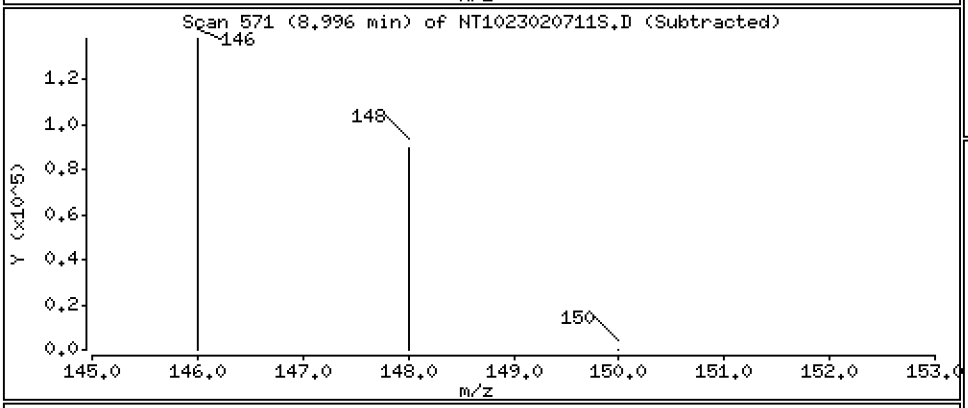
Column diameter: 0.25

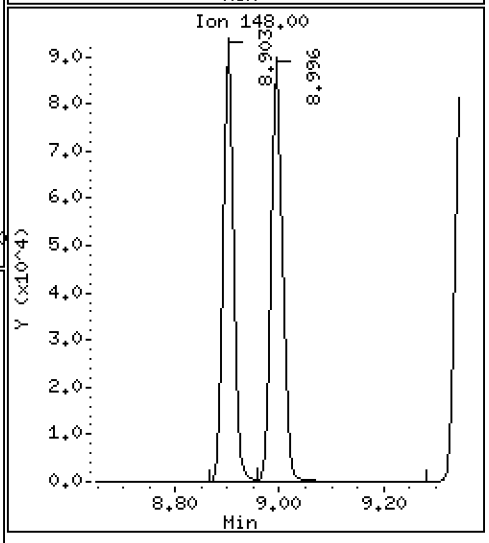
9 1,4-Dichlorobenzene

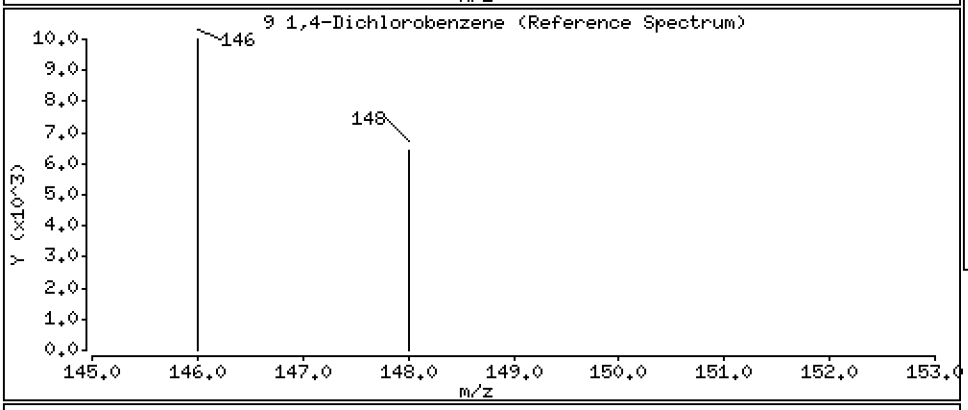
Concentration: 4.237 ug/L

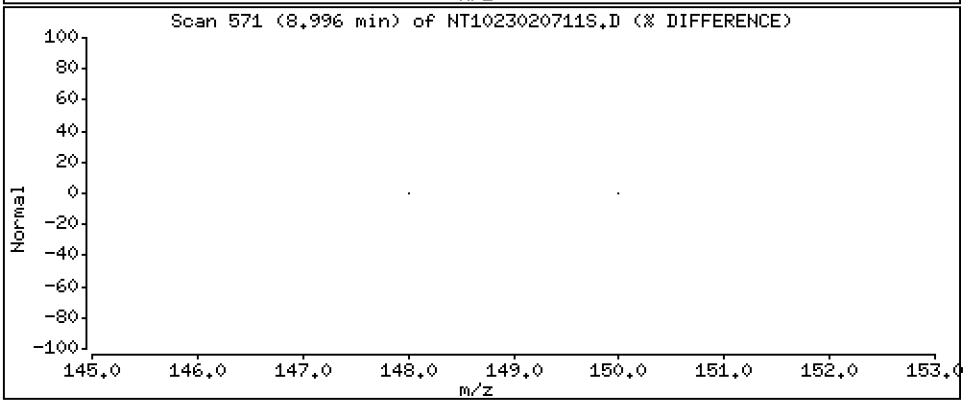












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

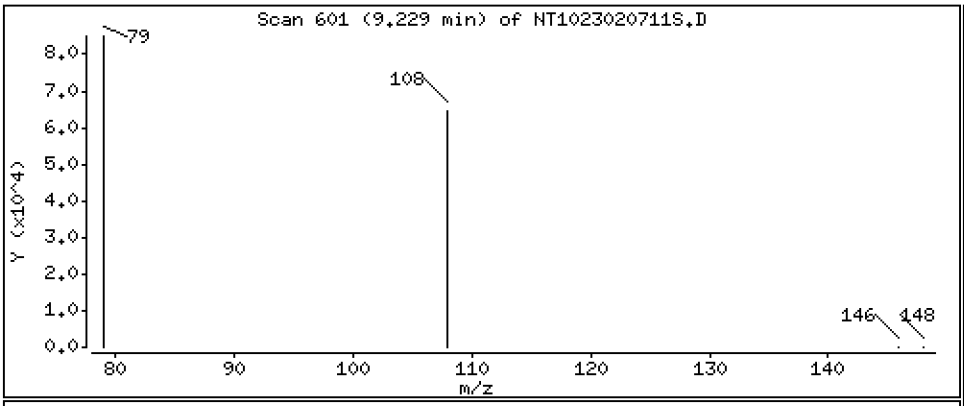
Operator: DSD

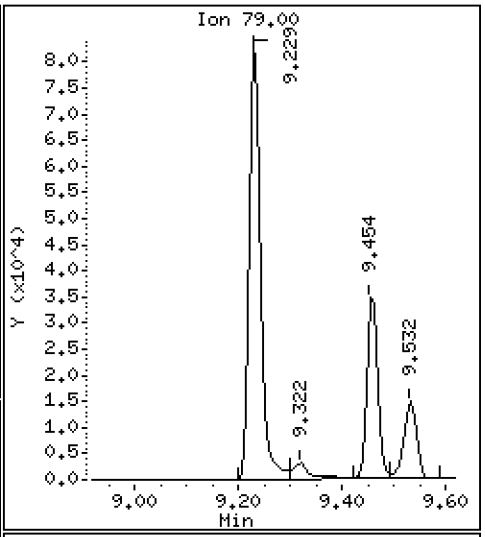
Column phase: ZB-5msi

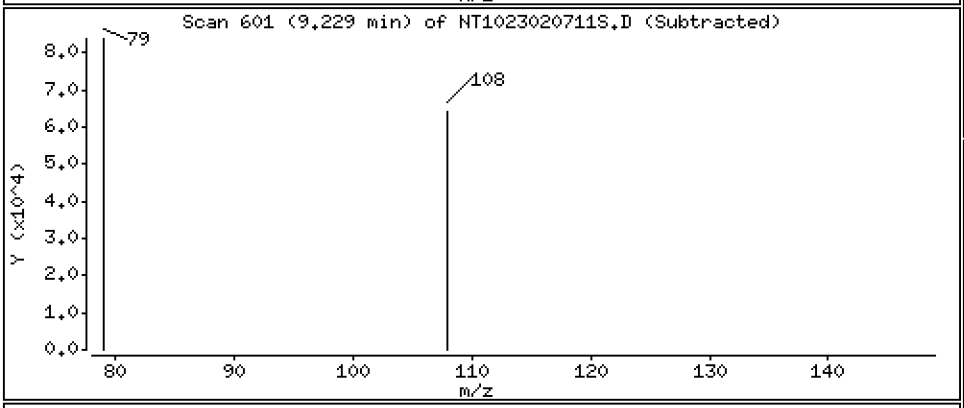
Column diameter: 0.25

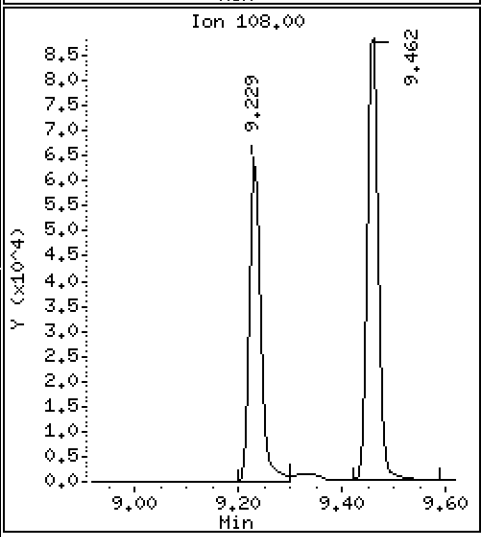
11 Benzyl alcohol

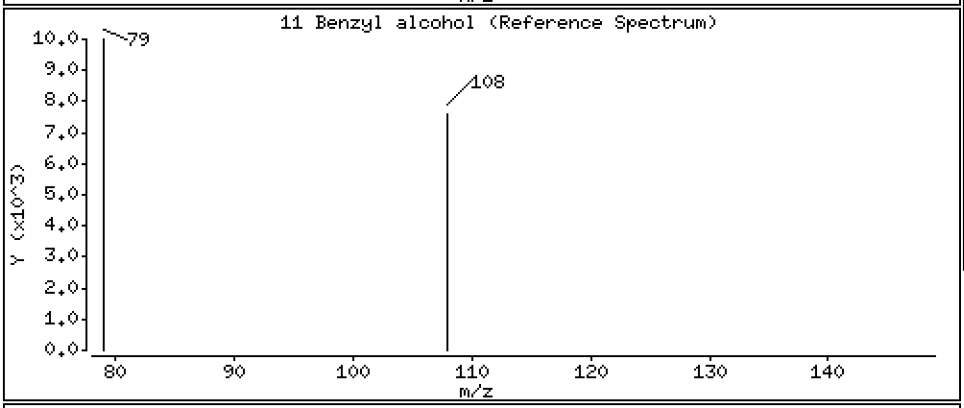
Concentration: 4.907 ug/L

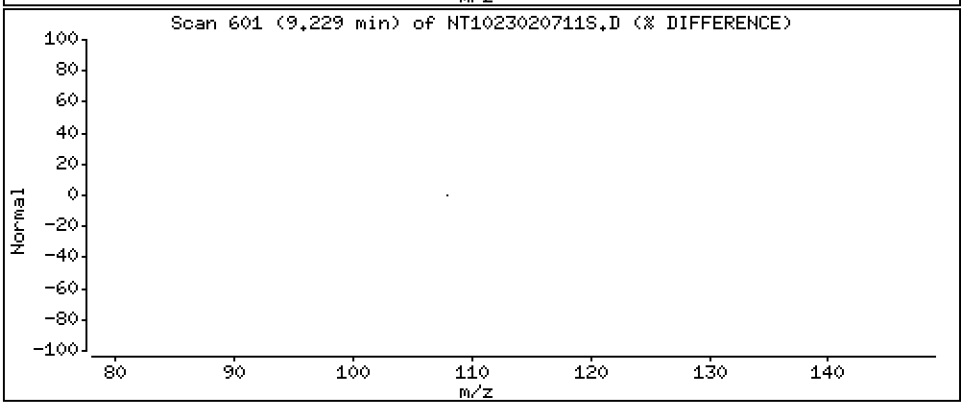












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

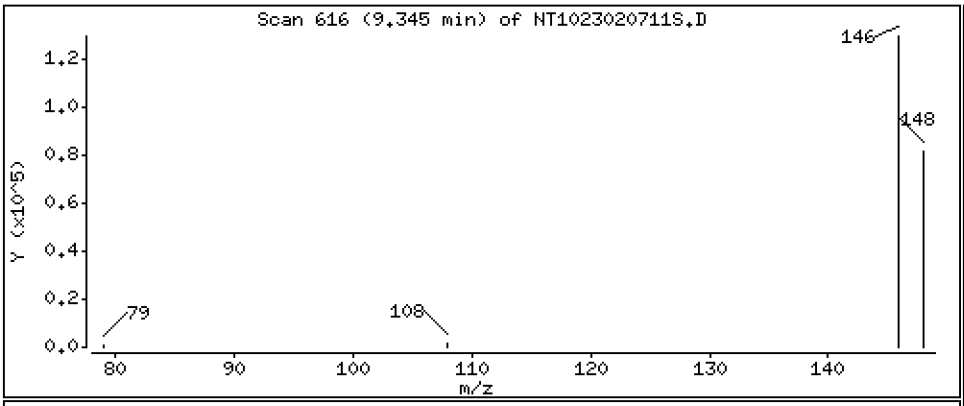
Operator: DSD

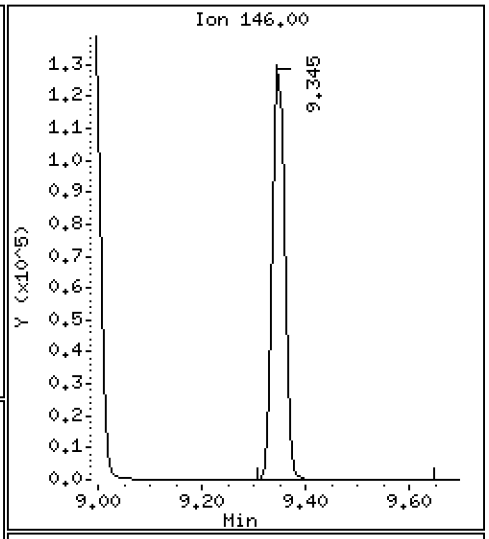
Column phase: ZB-5msi

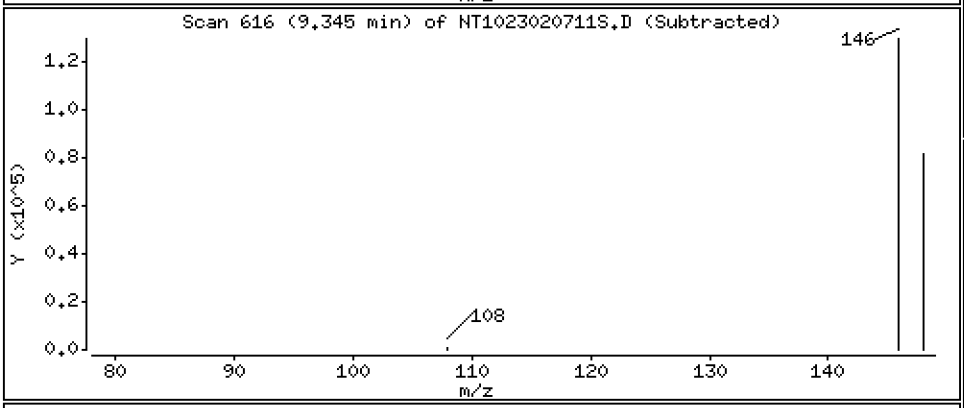
Column diameter: 0.25

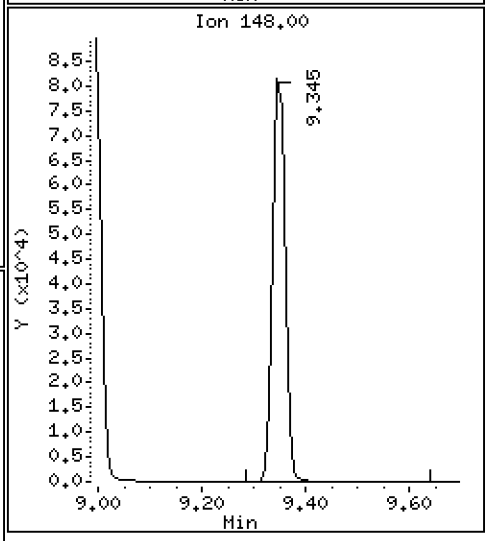
12 1,2-Dichlorobenzene

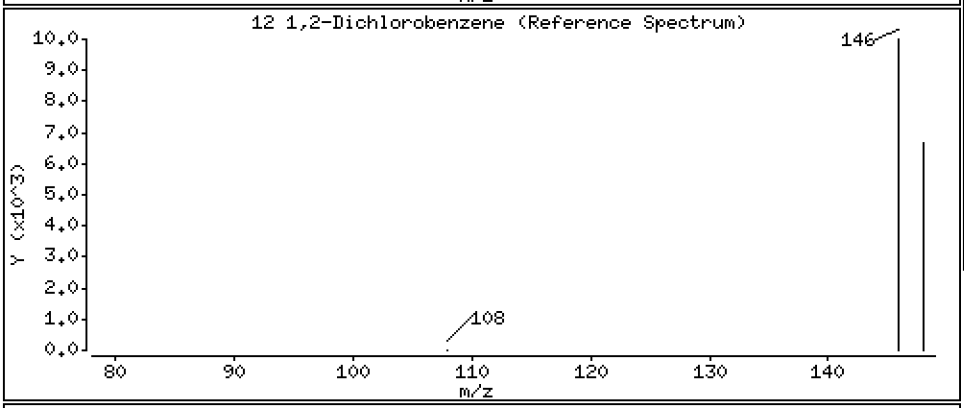
Concentration: 4.205 ug/L

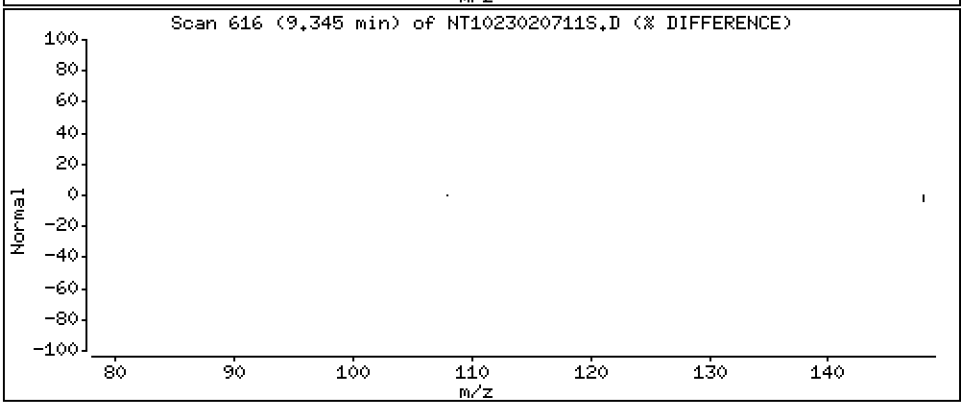












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

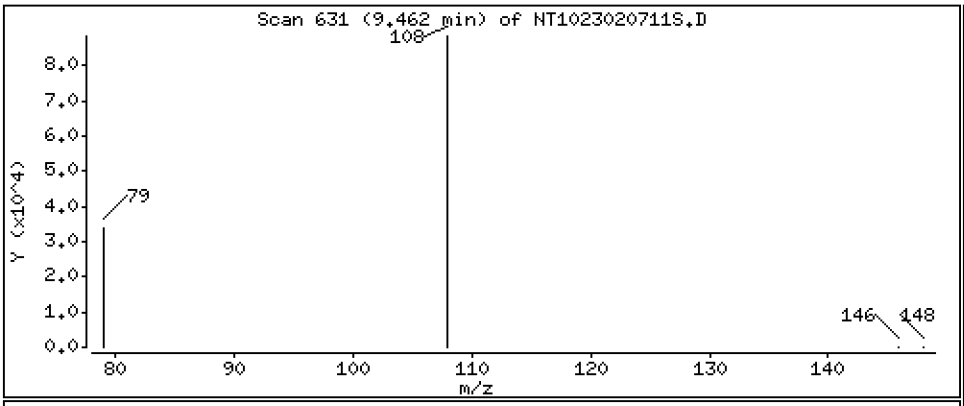
Operator: DSD

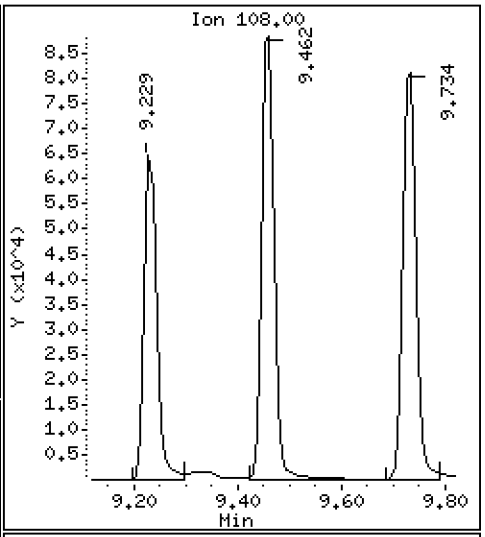
Column phase: ZB-5msi

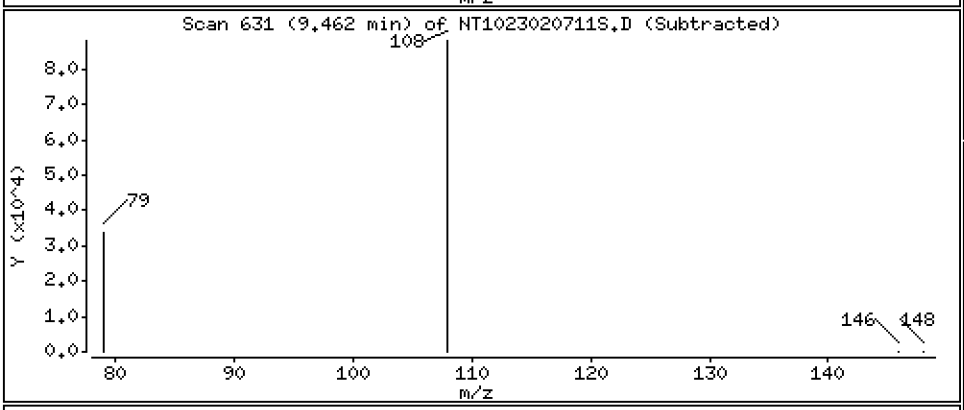
Column diameter: 0.25

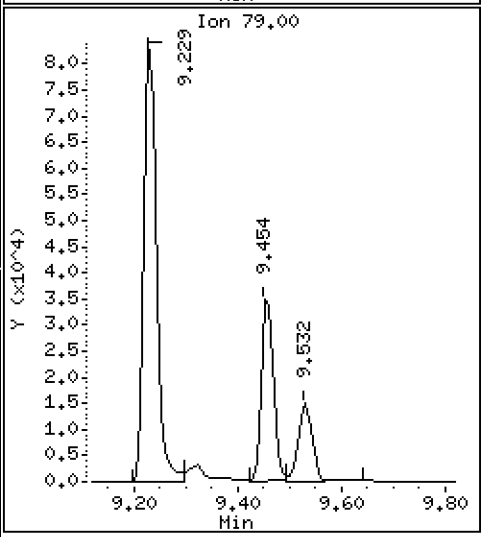
13 2-Methylphenol

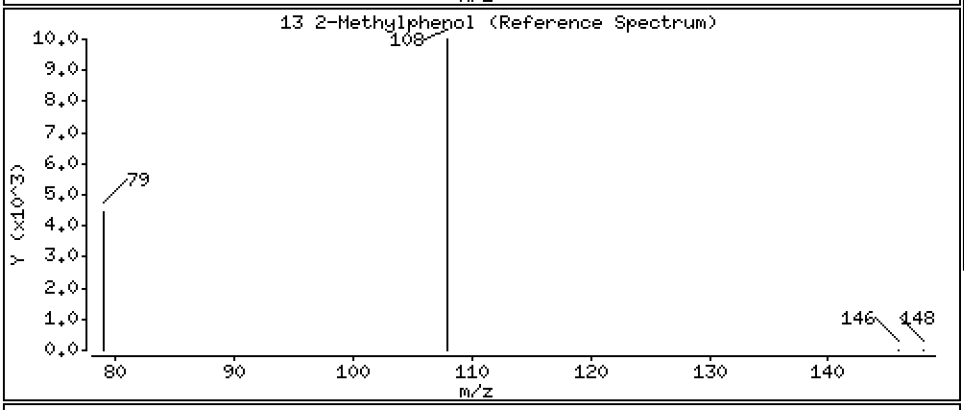
Concentration: 3.649 ug/L

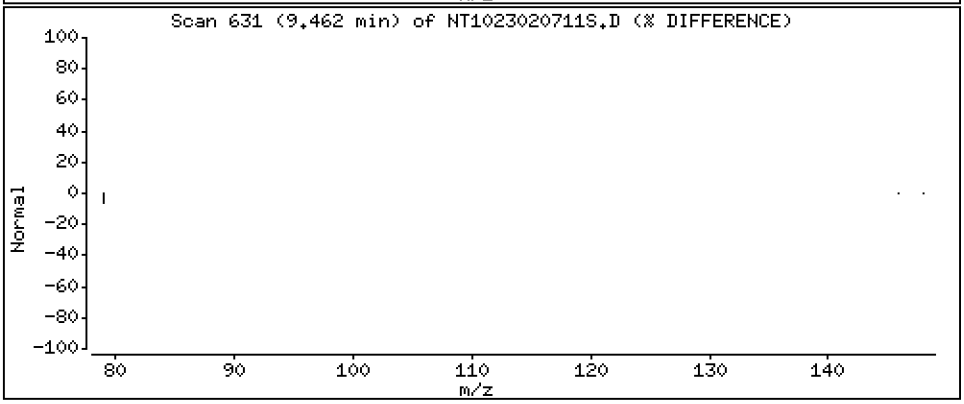












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020711S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

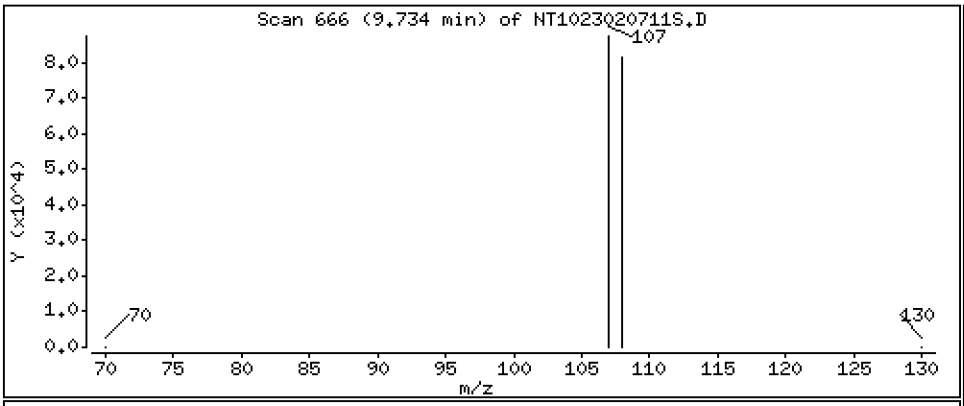
Operator: DSD

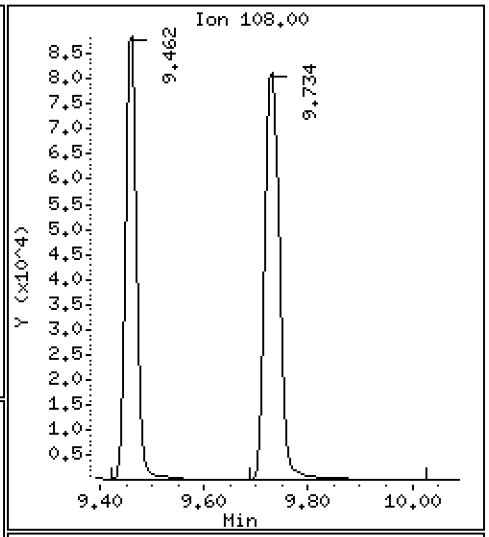
Column phase: ZB-5msi

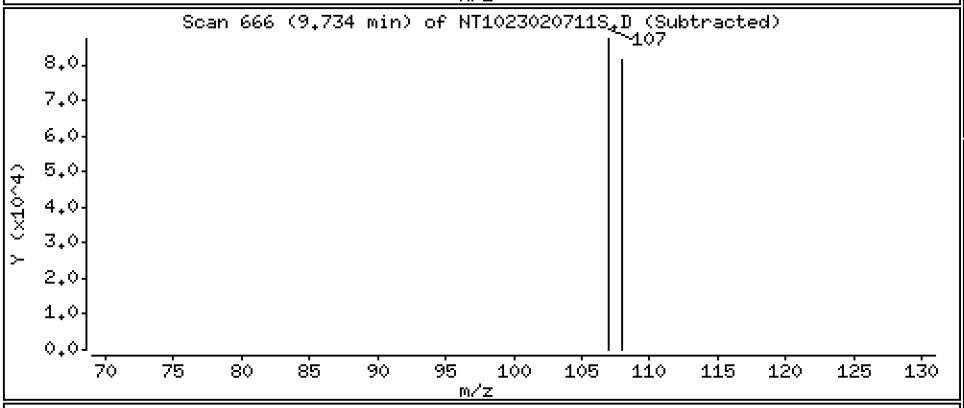
Column diameter: 0.25

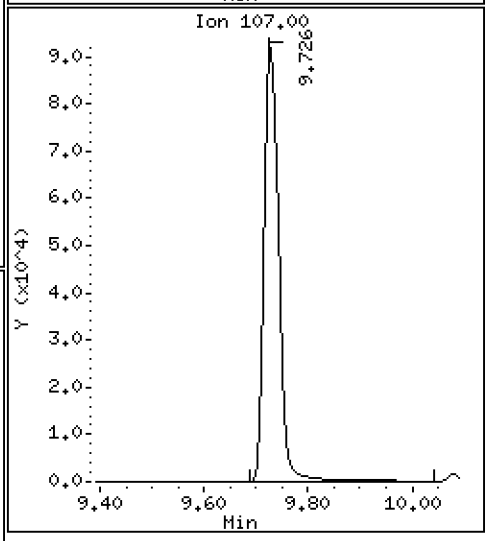
15 4-Methylphenol

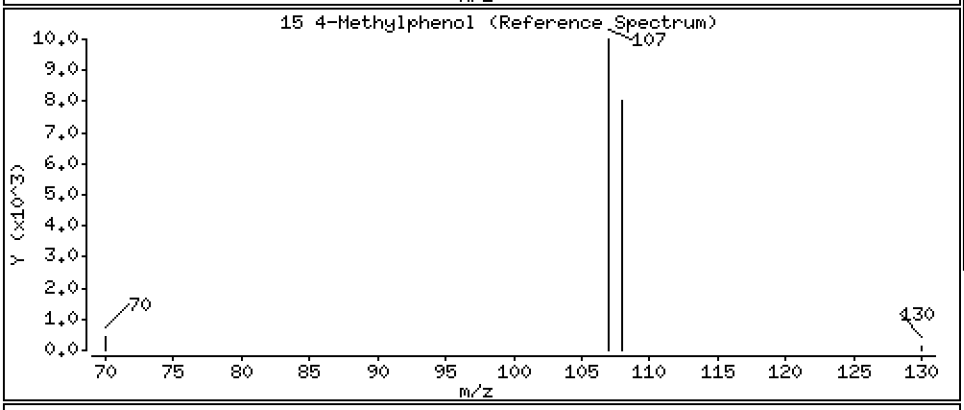
Concentration: 3.980 ug/L

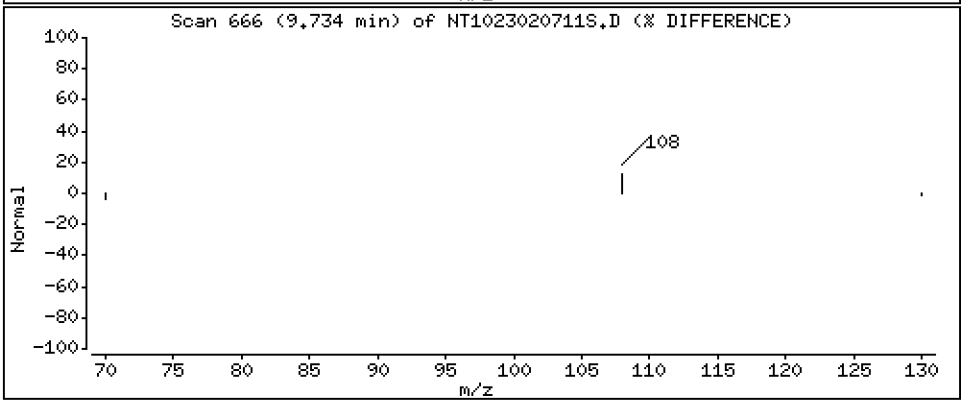












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

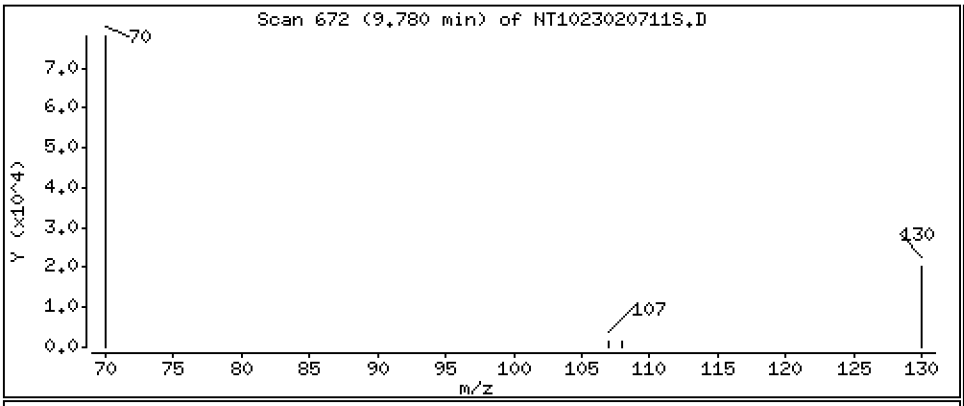
Operator: DSD

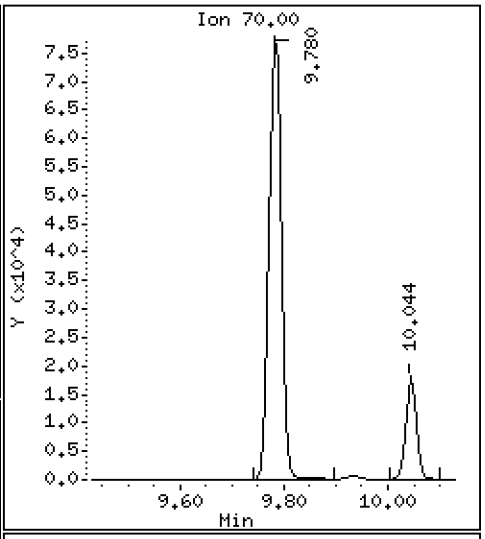
Column phase: ZB-5msi

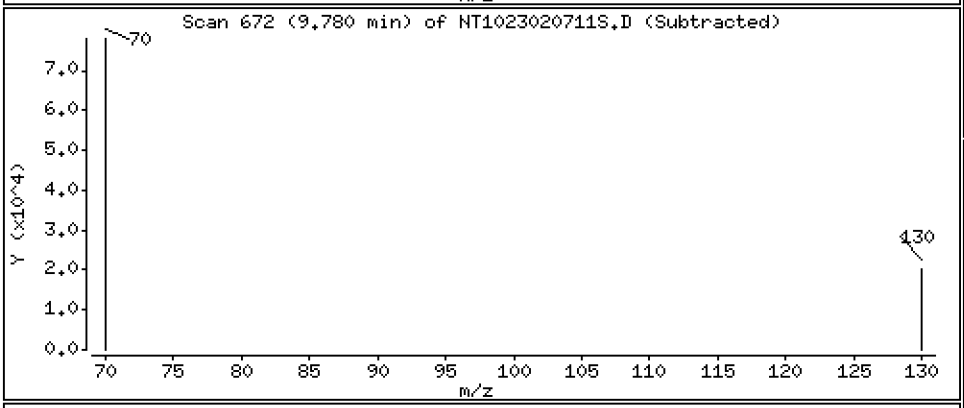
Column diameter: 0.25

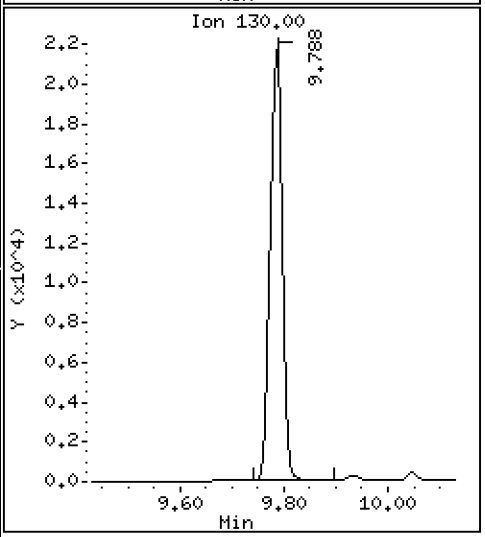
16 N-Nitroso-di-n-propylamine

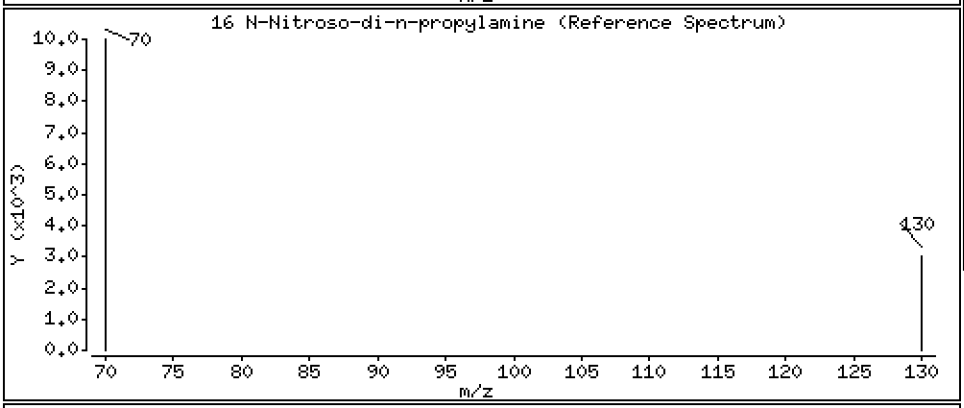
Concentration: 4.396 ug/L

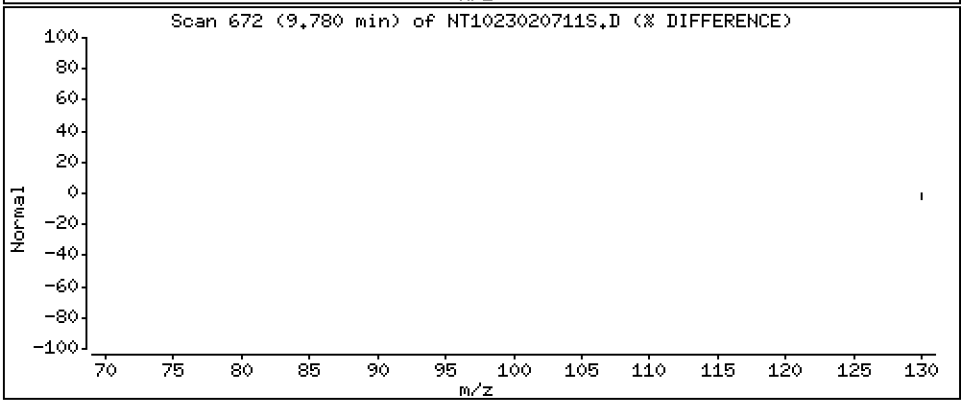












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

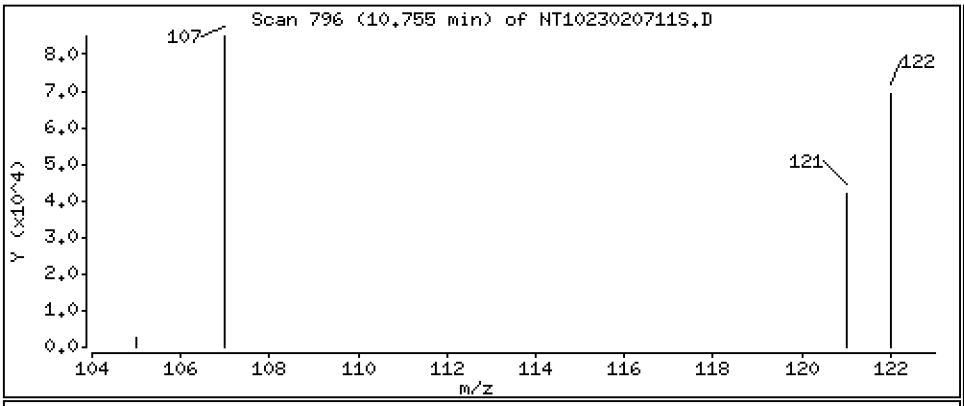
Operator: DSD

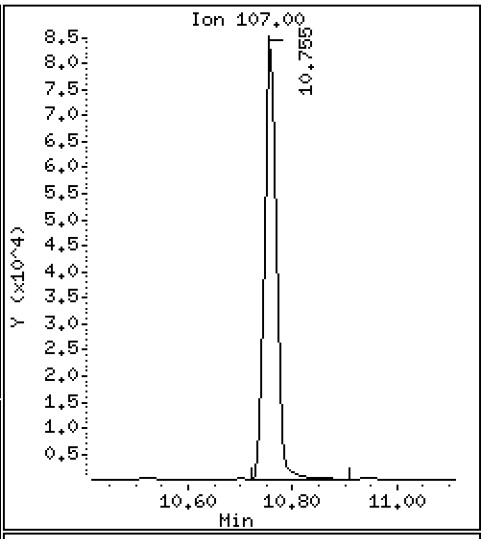
Column phase: ZB-5msi

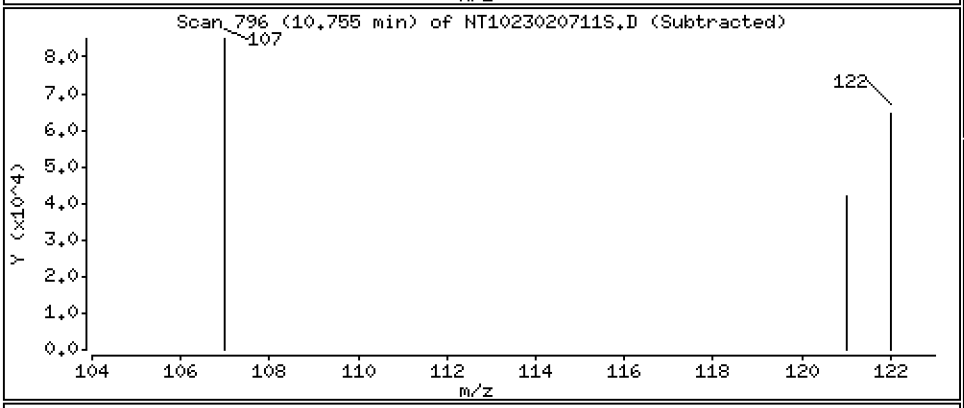
Column diameter: 0.25

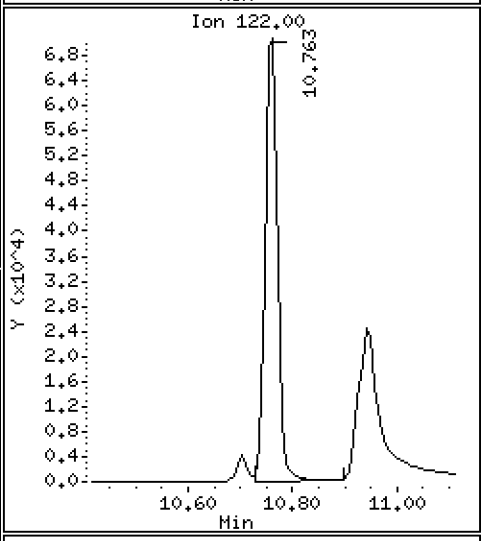
22 2,4-Dimethylphenol

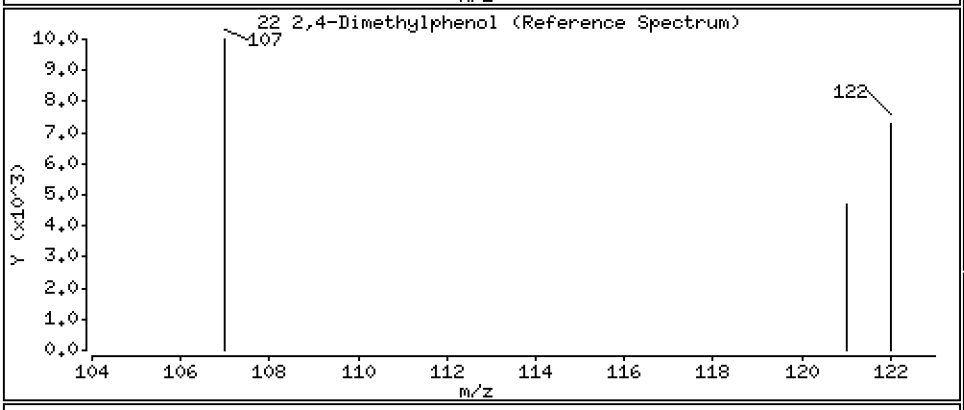
Concentration: 3.353 ug/L

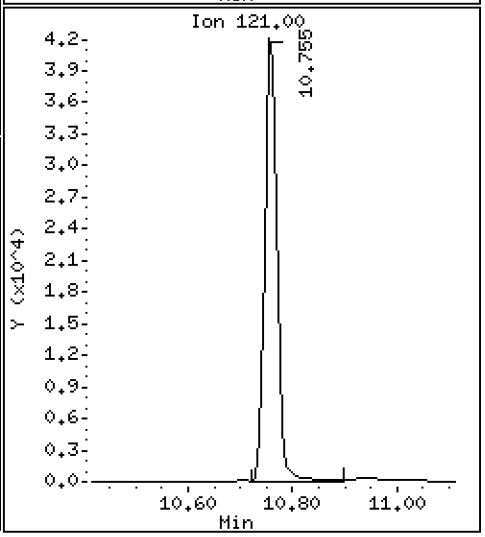


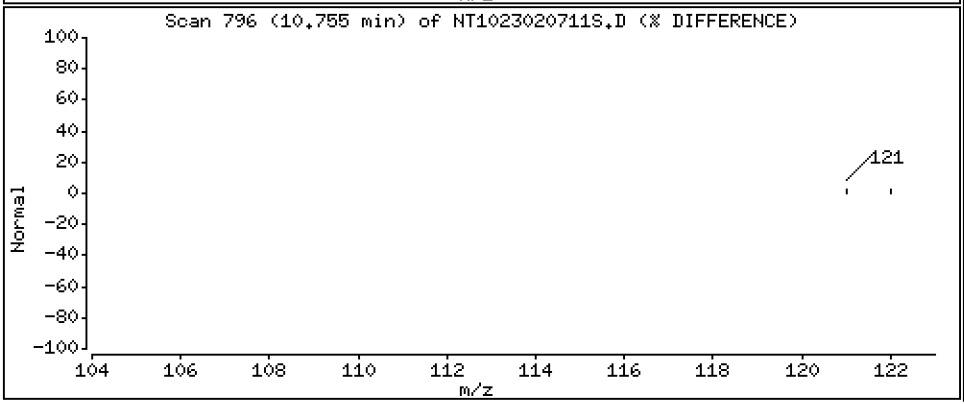












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

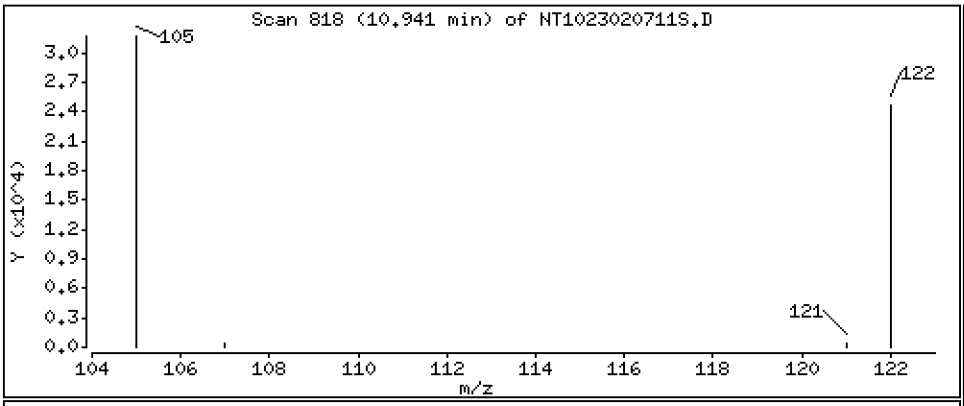
Operator: DSD

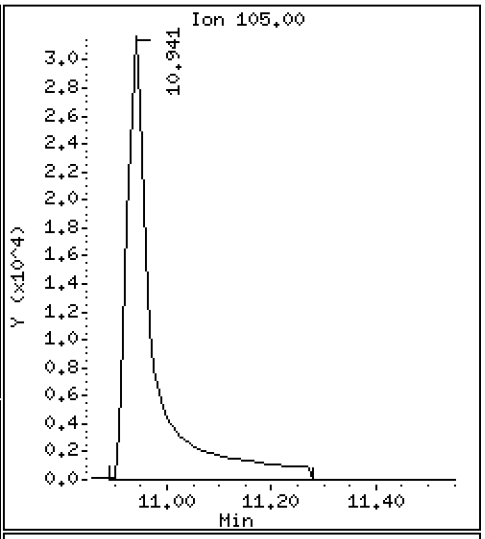
Column phase: ZB-5msi

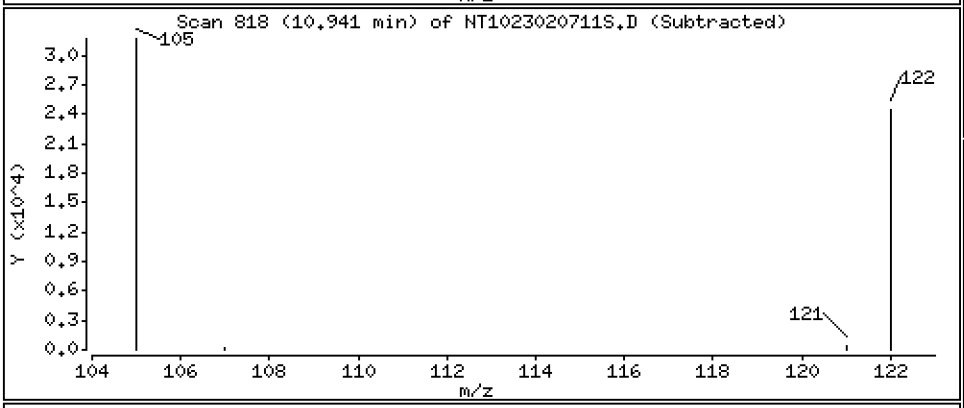
Column diameter: 0.25

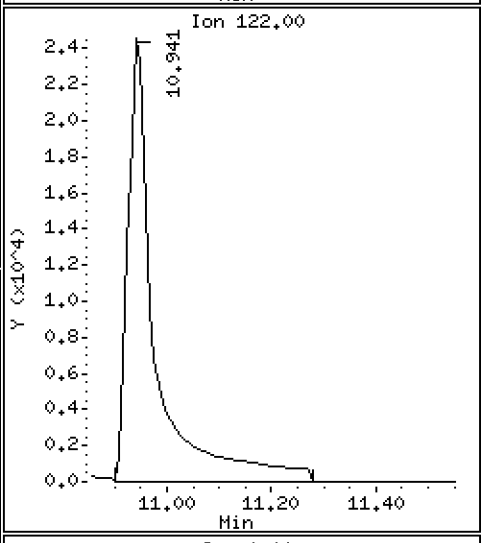
24 Benzoic acid

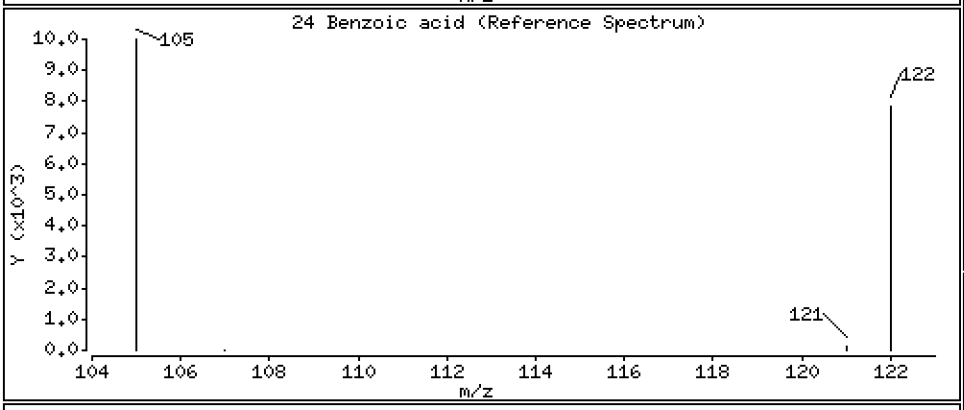
Concentration: 5.884 ug/L

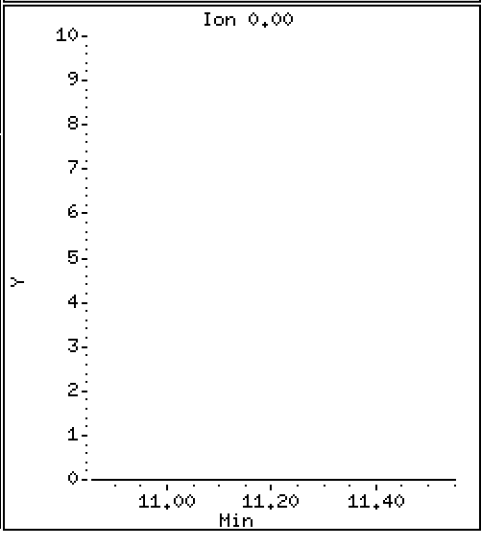


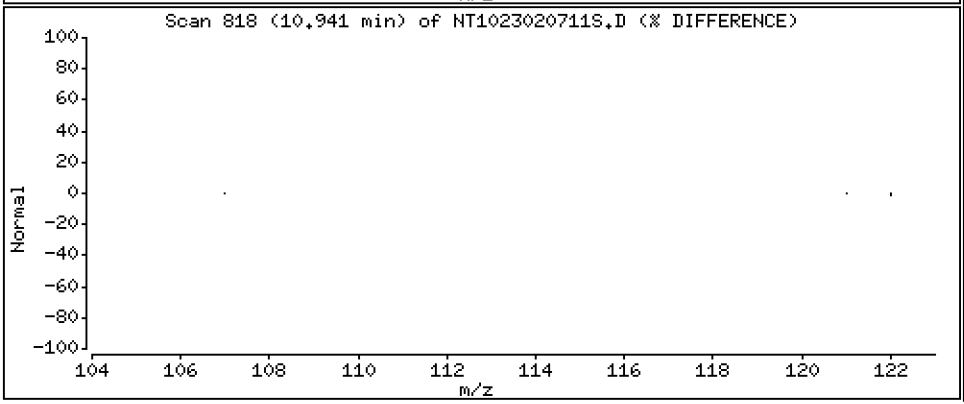












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

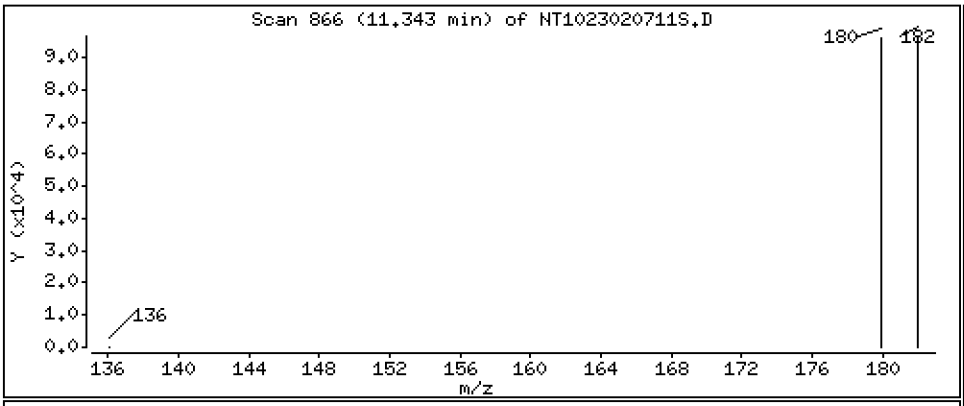
Operator: DSD

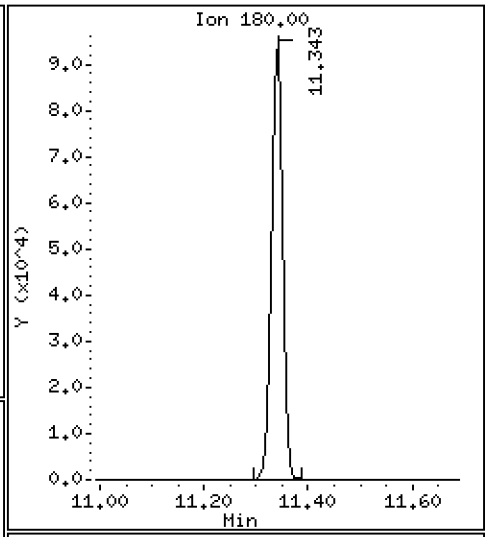
Column phase: ZB-5msi

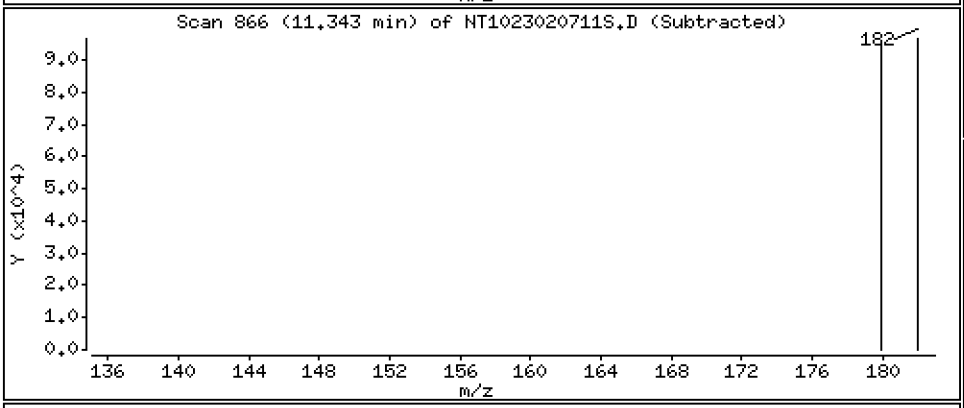
Column diameter: 0.25

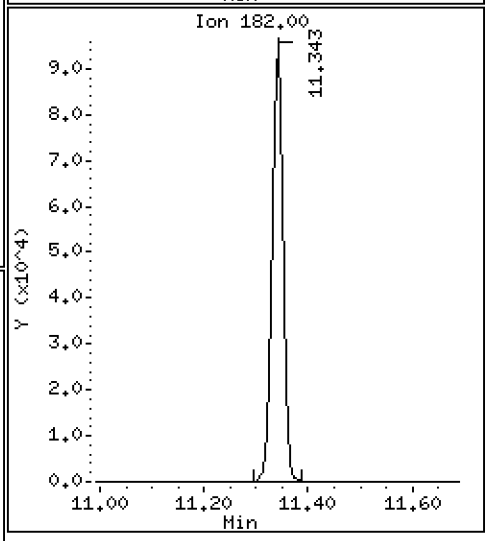
26 1,2,4-Trichlorobenzene

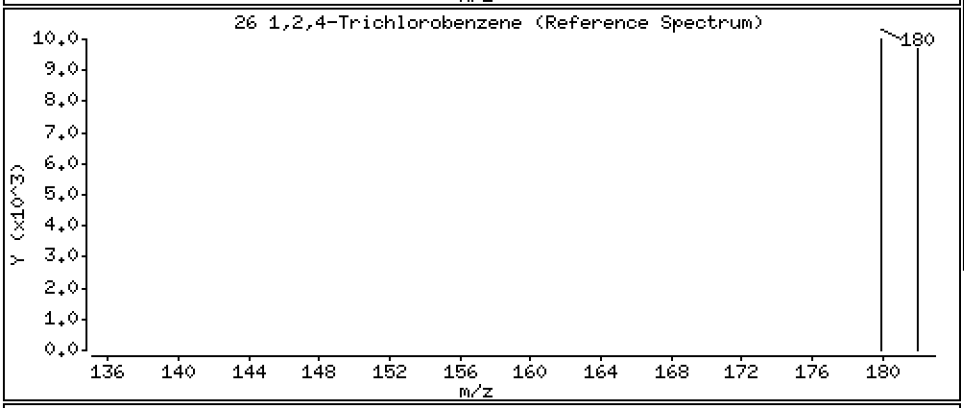
Concentration: 3.930 ug/L

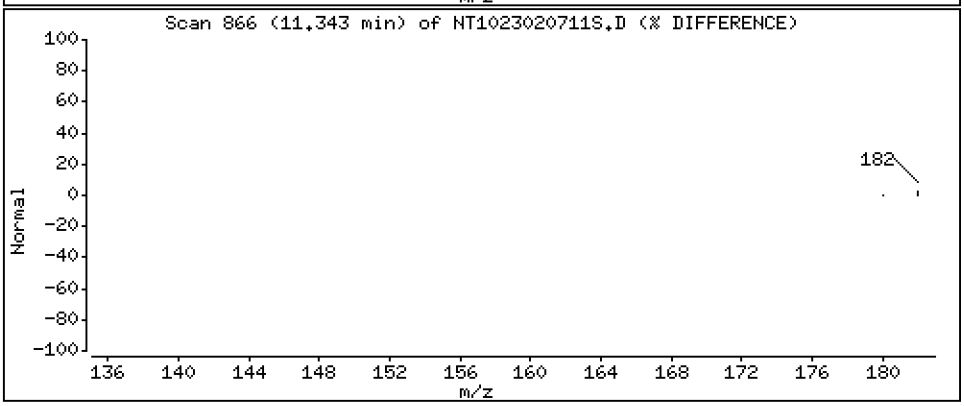












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

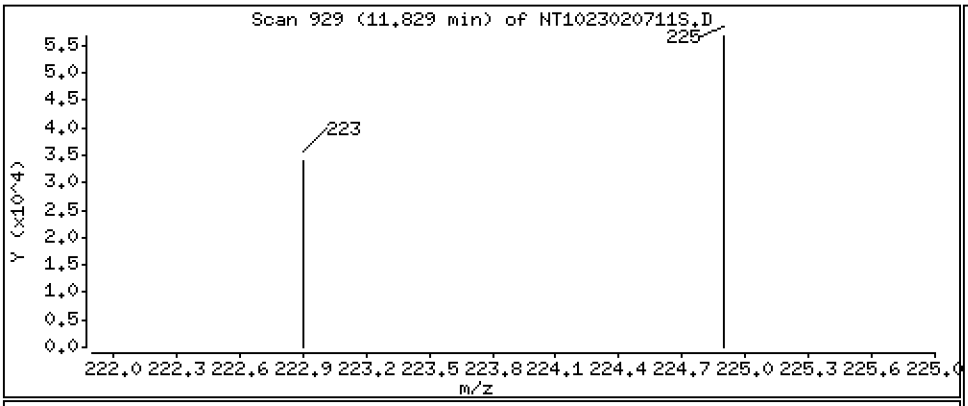
Operator: DSD

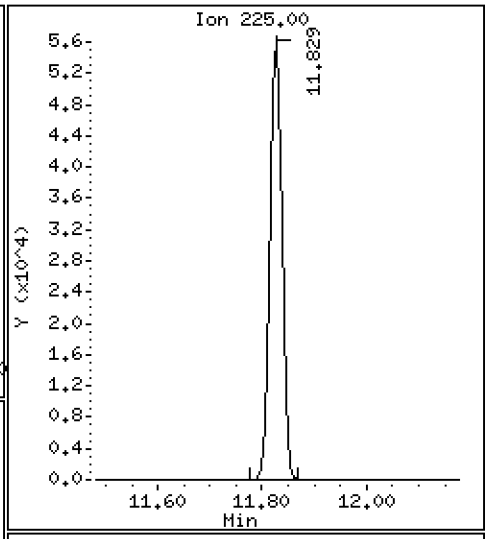
Column phase: ZB-5msi

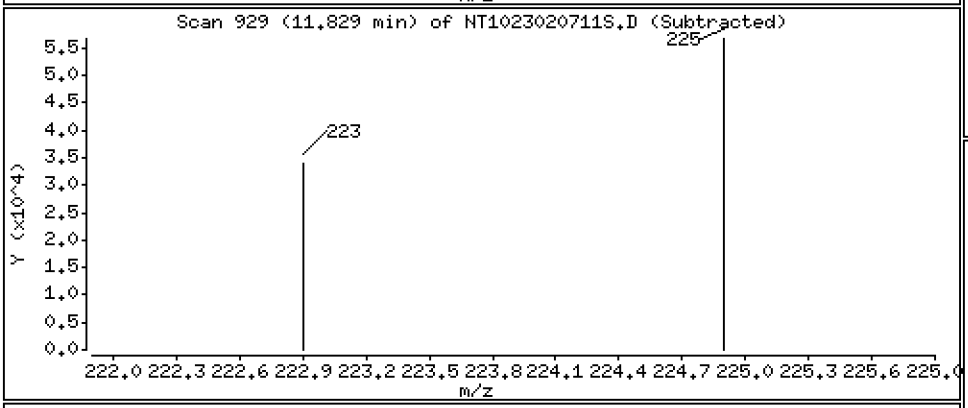
Column diameter: 0.25

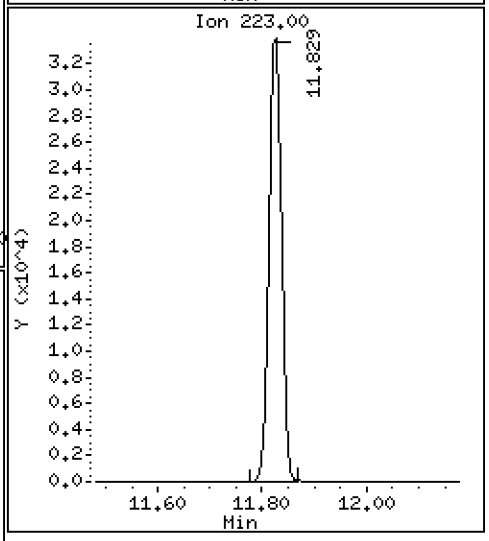
30 Hexachlorobutadiene

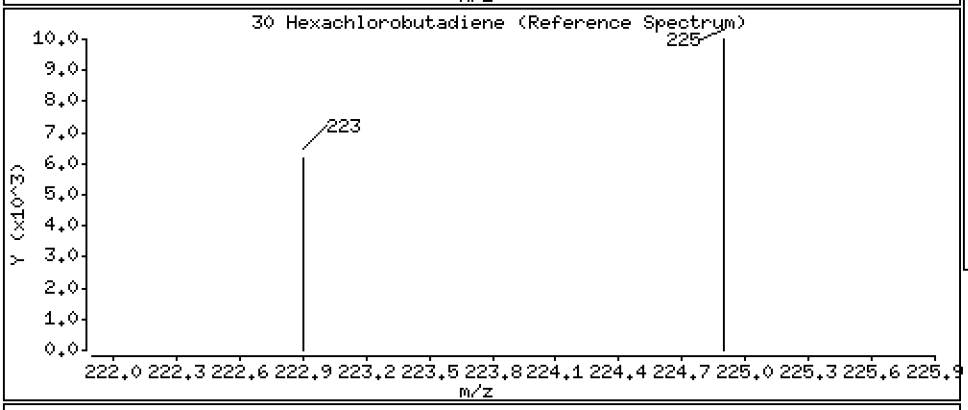
Concentration: 4.166 ug/L

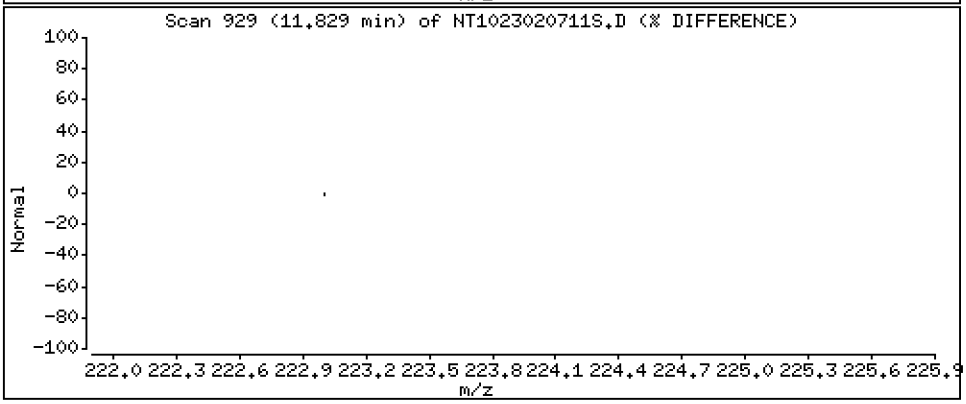












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

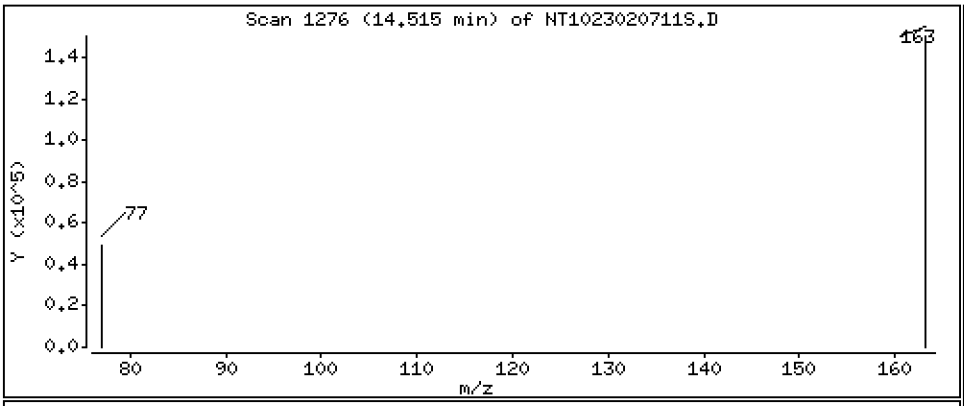
Operator: DSD

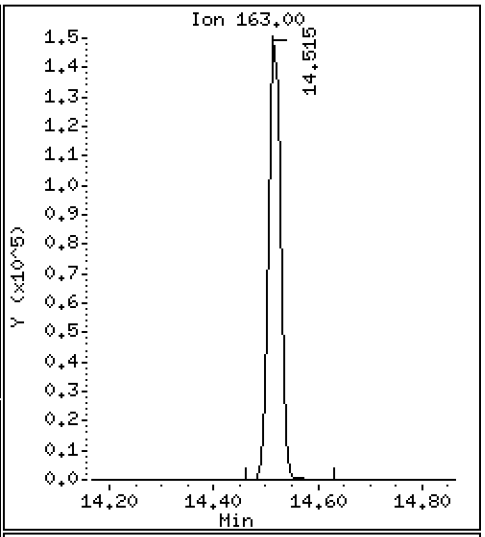
Column phase: ZB-5msi

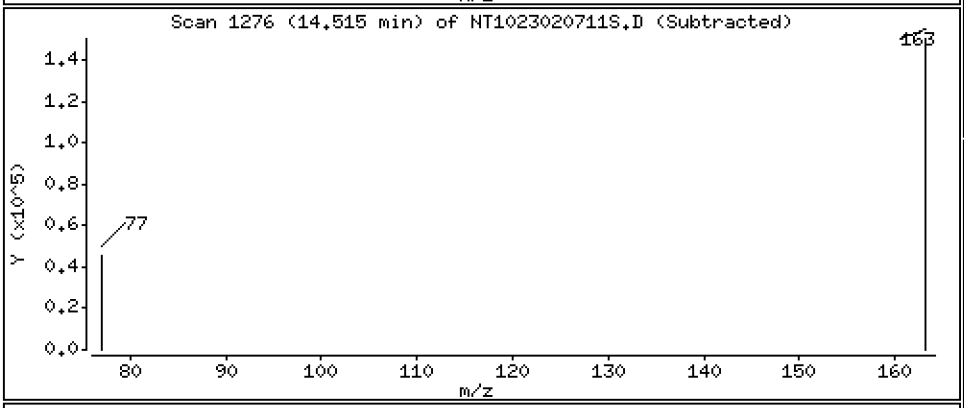
Column diameter: 0.25

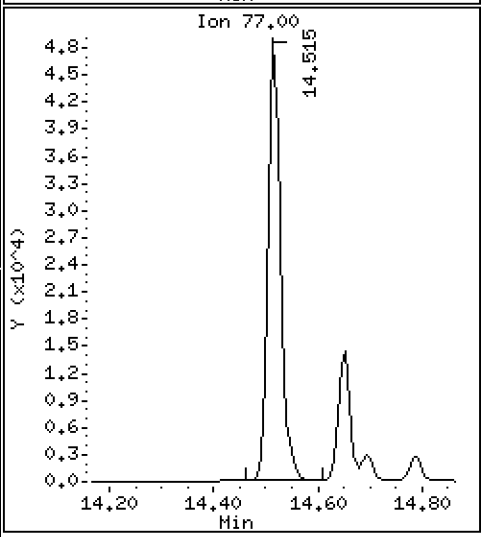
39 Dimethylphthalate

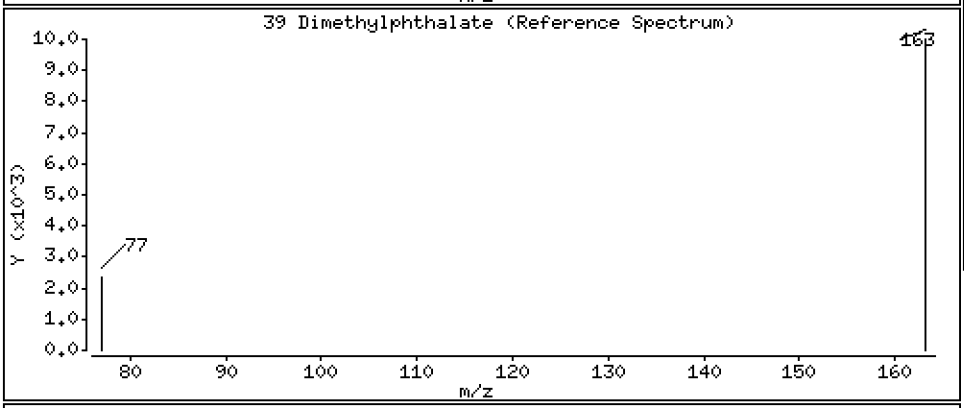
Concentration: 4.173 ug/L

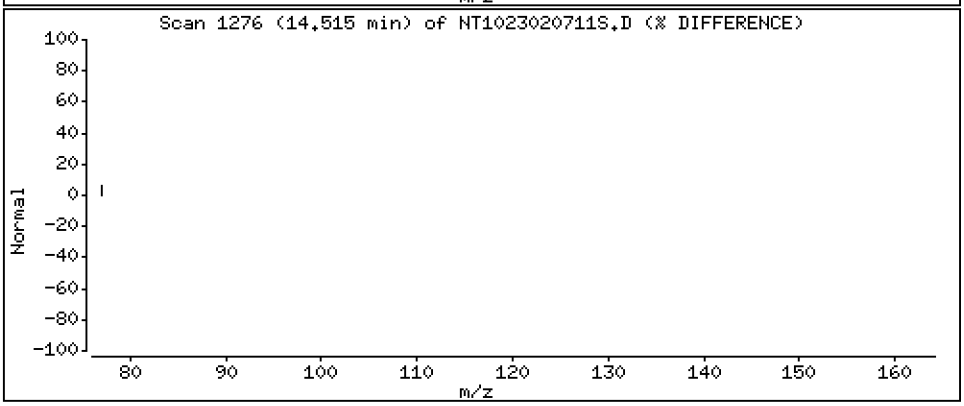












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

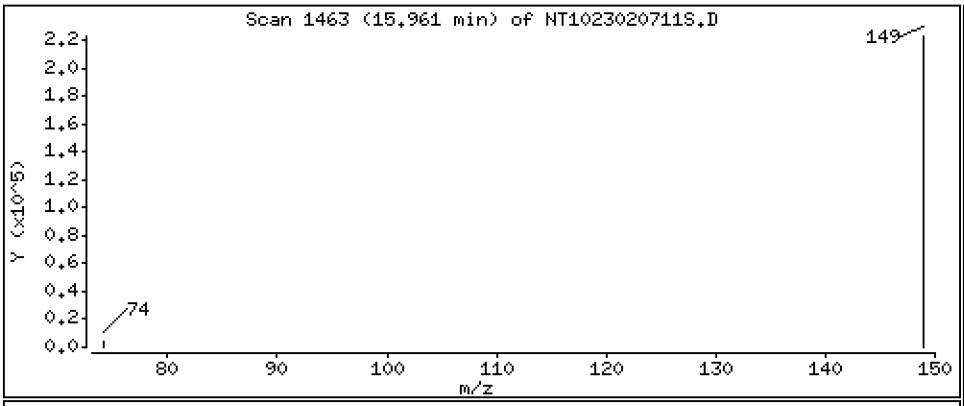
Operator: DSD

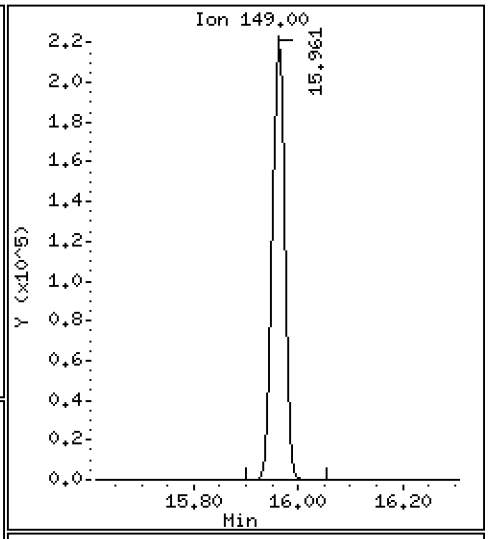
Column phase: ZB-5msi

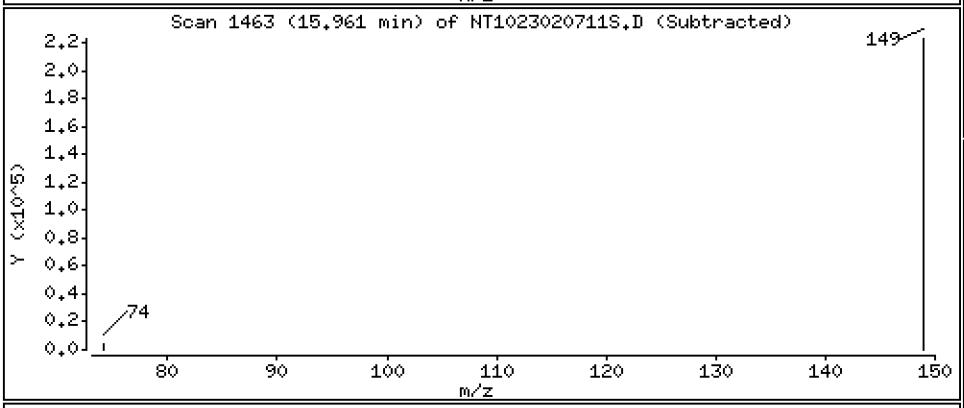
Column diameter: 0.25

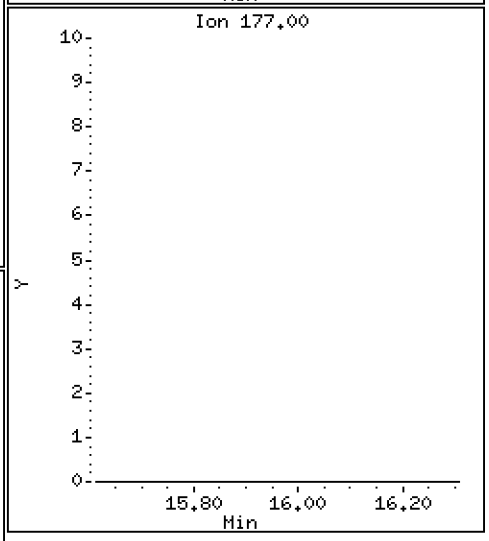
50 Diethylphthalate

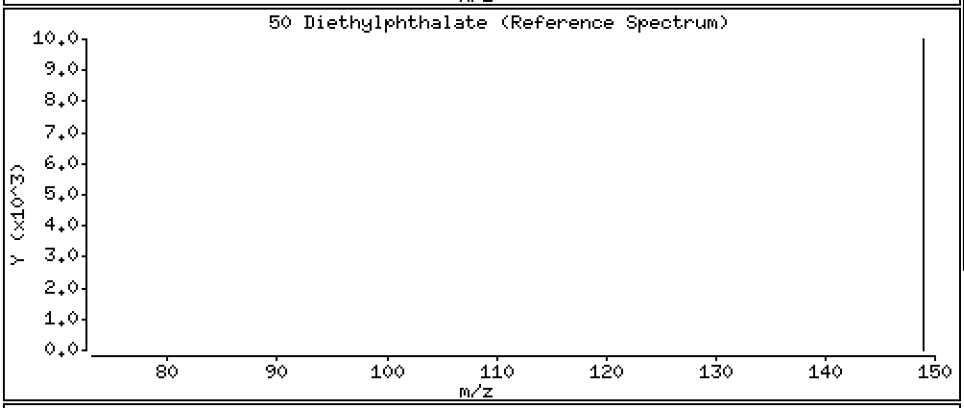
Concentration: 4.282 ug/L

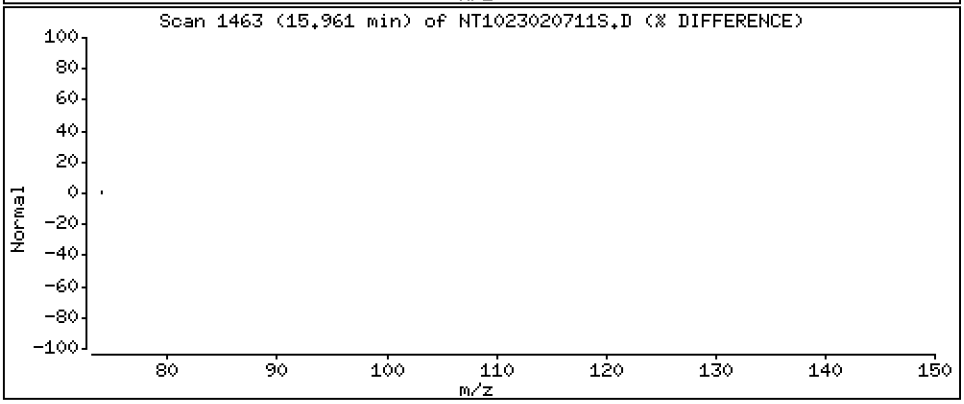












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

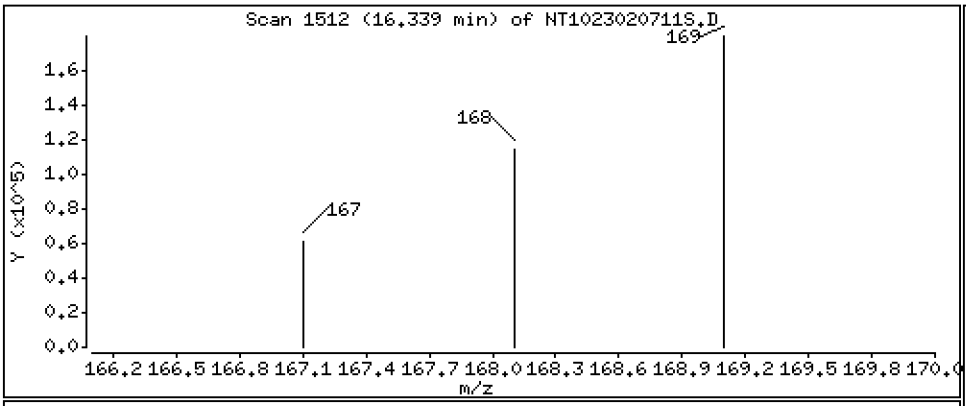
Operator: DSD

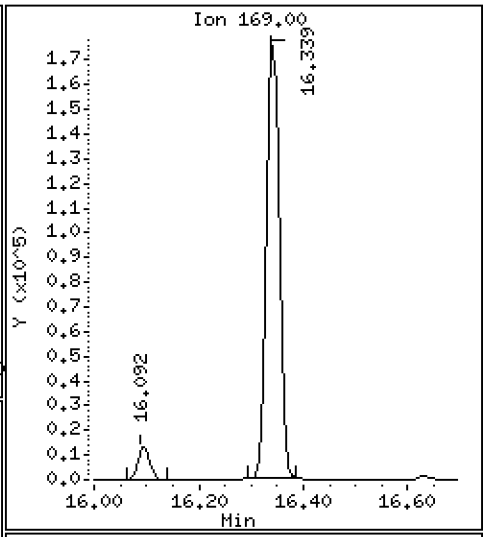
Column phase: ZB-5msi

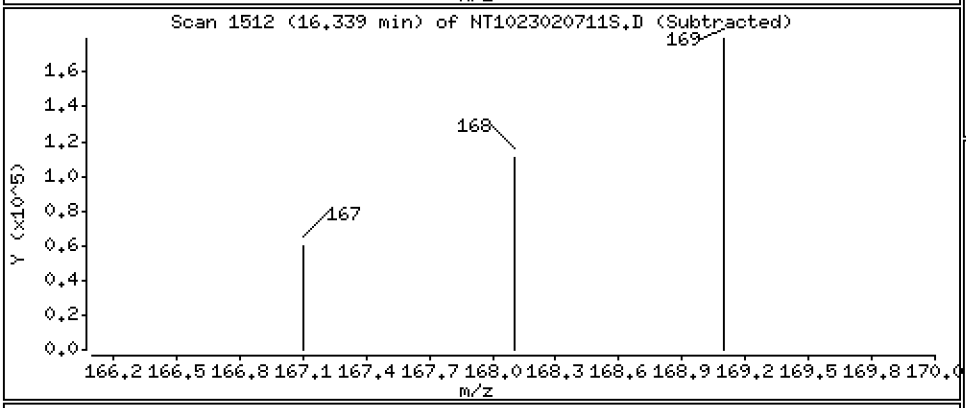
Column diameter: 0.25

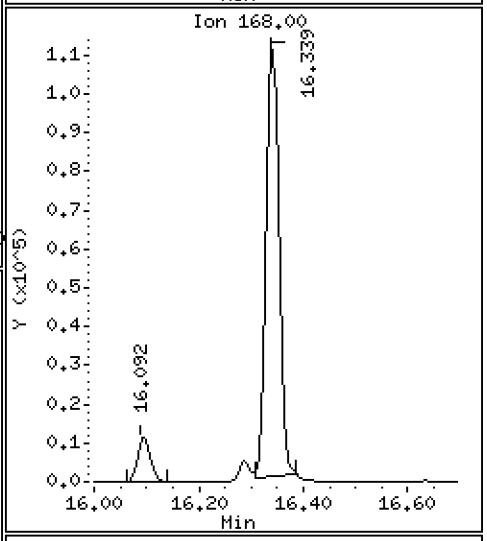
54 N-Nitrosodiphenylamine

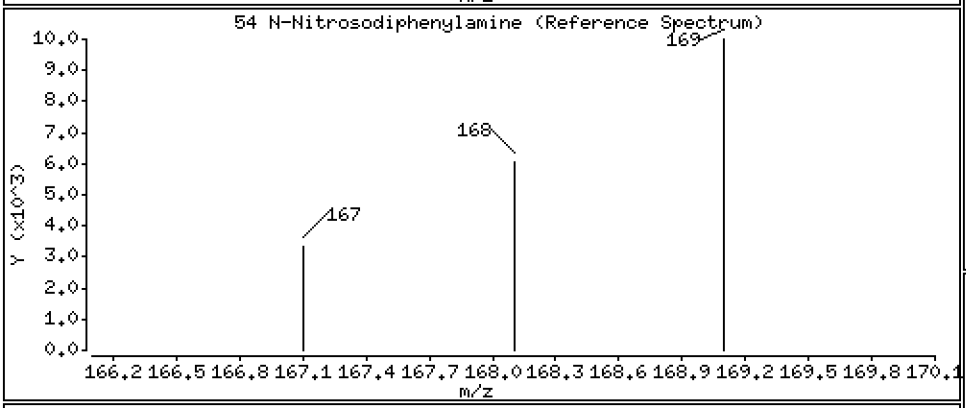
Concentration: 4.205 ug/L

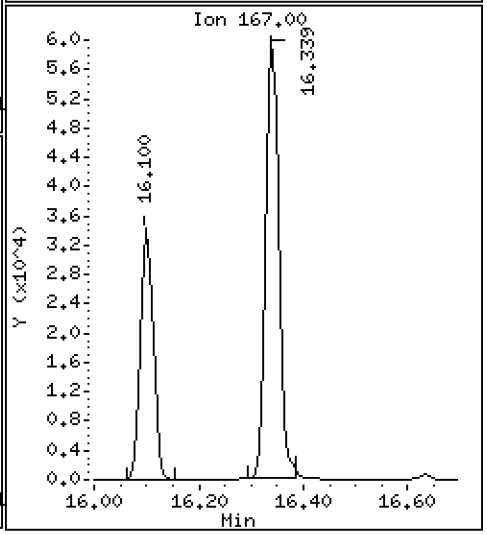


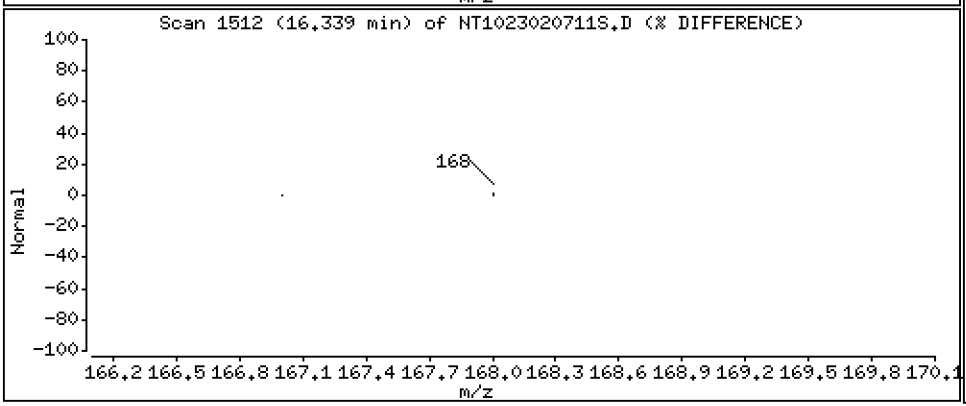












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

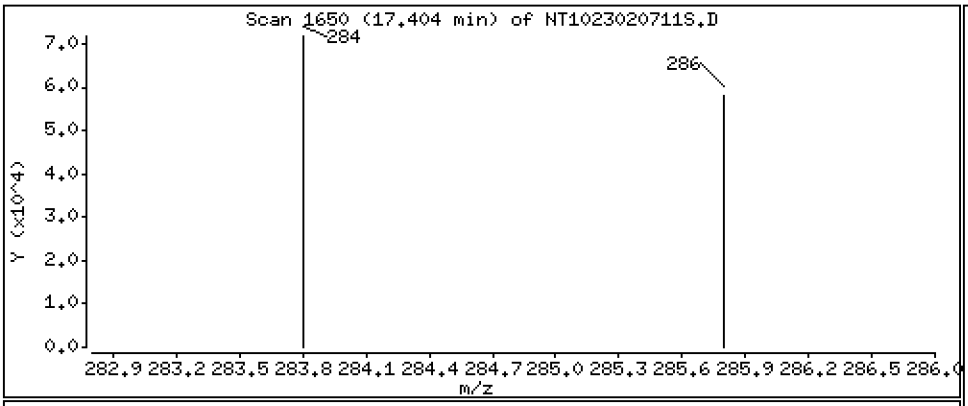
Operator: DSD

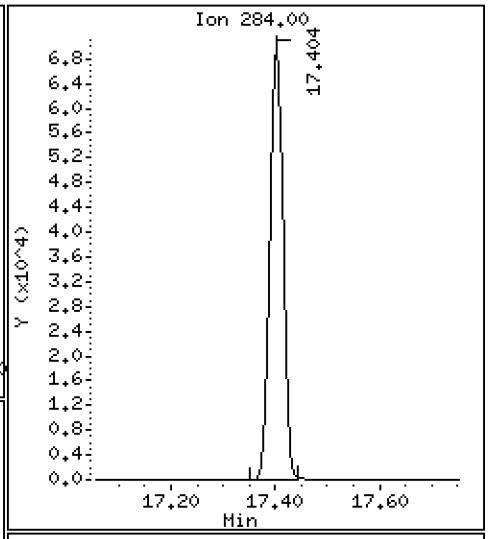
Column phase: ZB-5msi

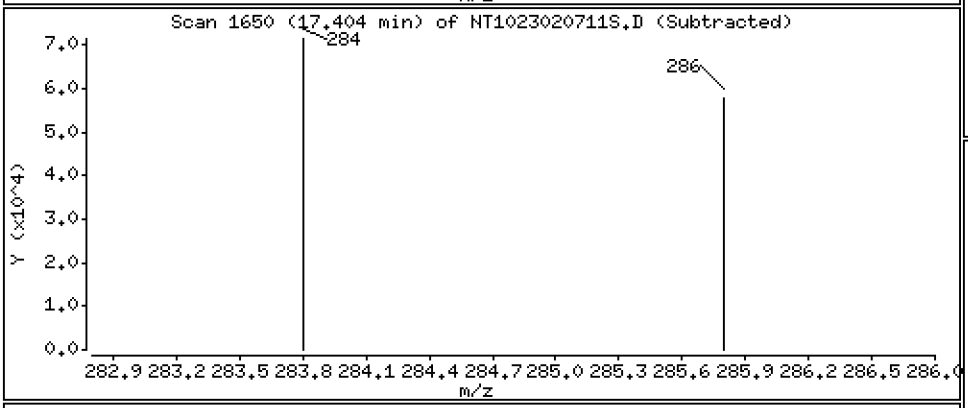
Column diameter: 0.25

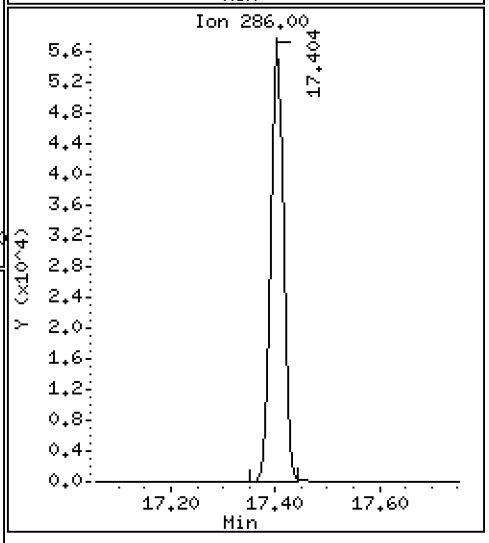
57 Hexachlorobenzene

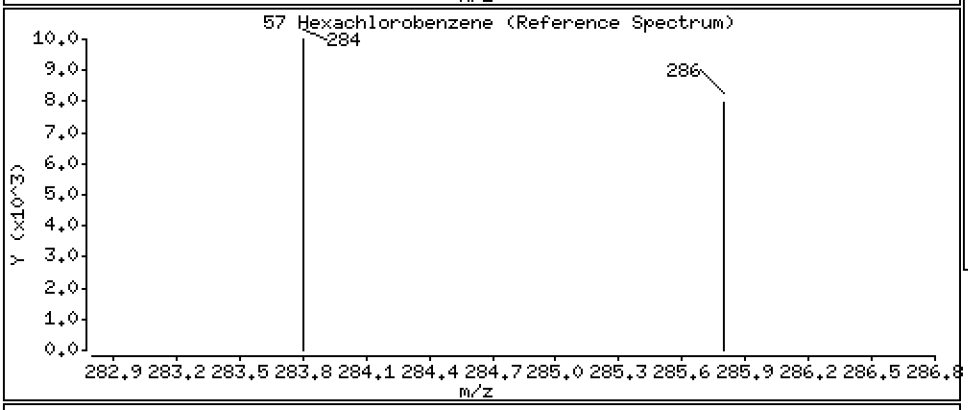
Concentration: 4.026 ug/L

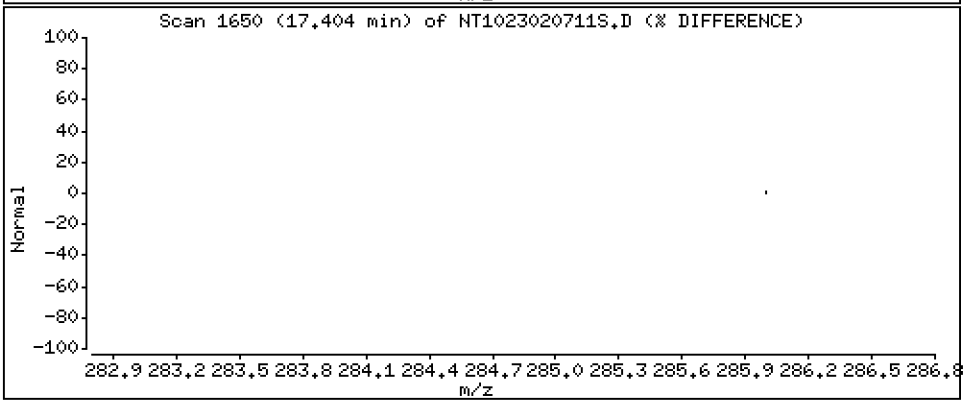












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

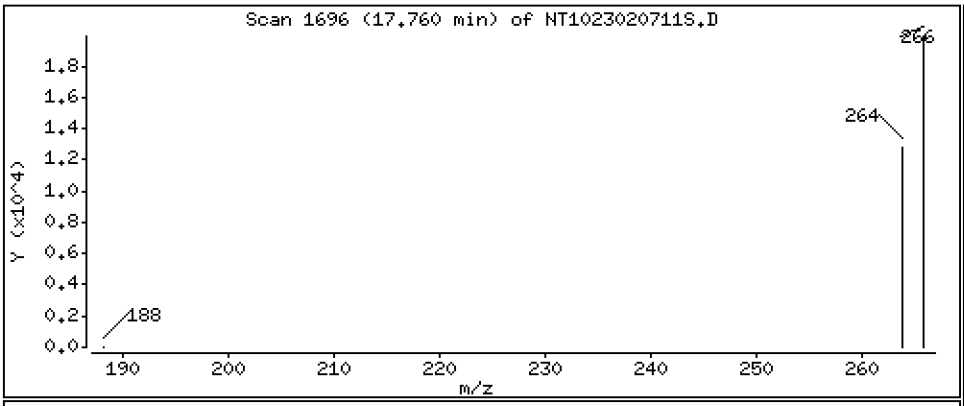
Operator: DSD

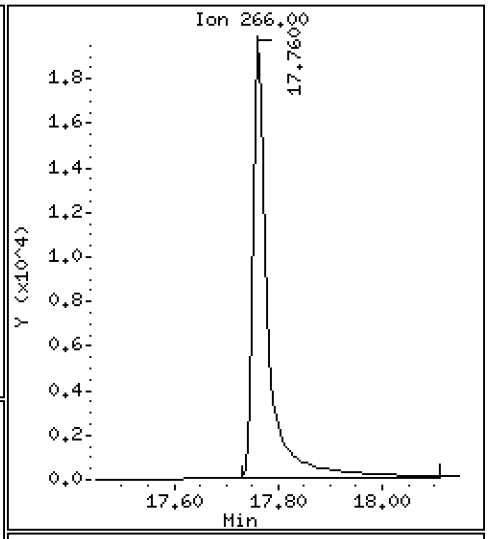
Column phase: ZB-5msi

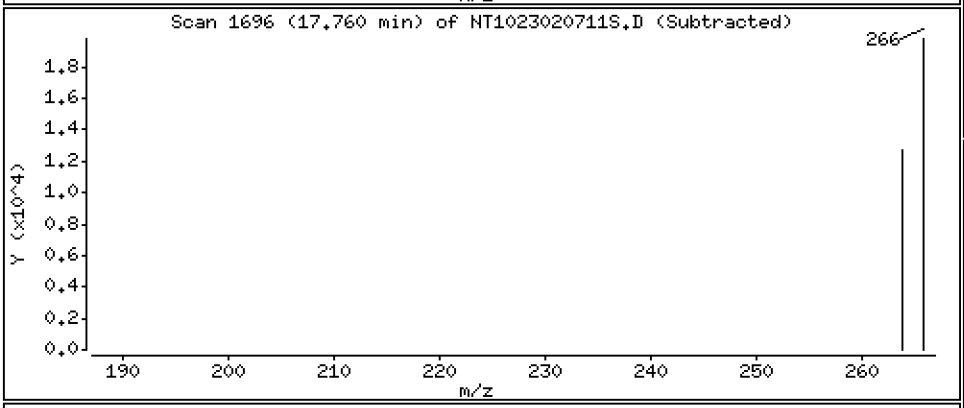
Column diameter: 0.25

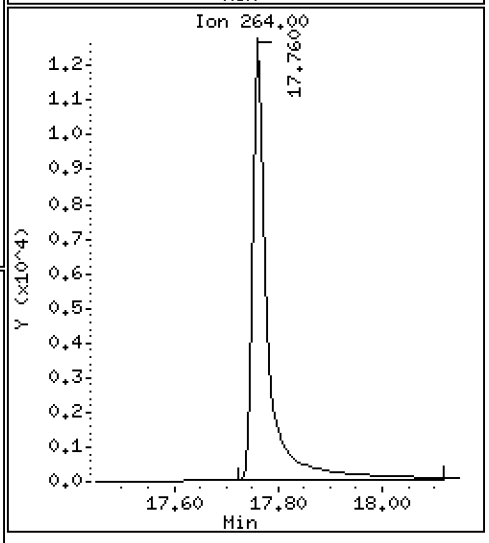
58 Pentachlorophenol

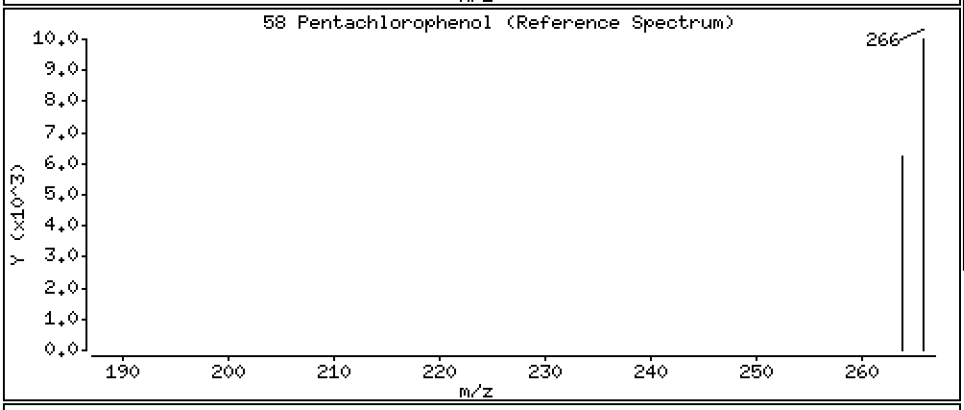
Concentration: 3.994 ug/L

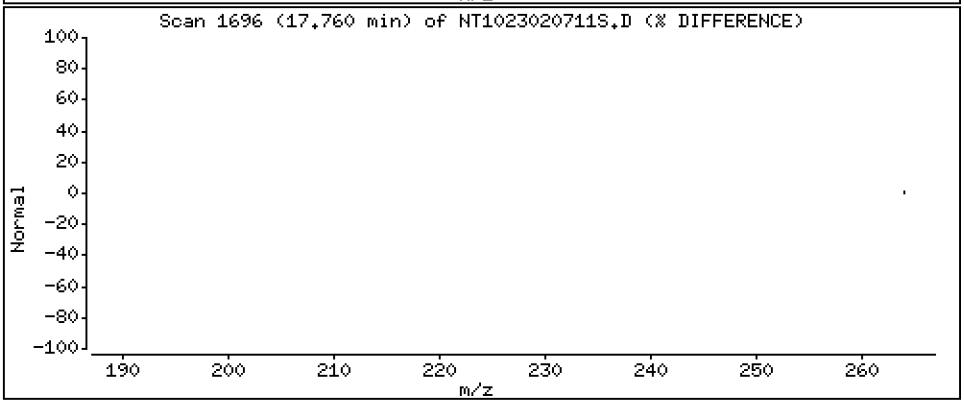












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

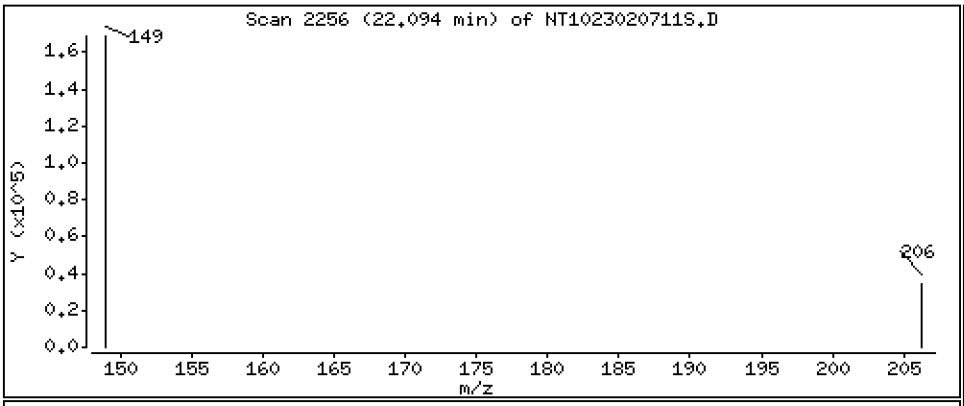
Operator: DSD

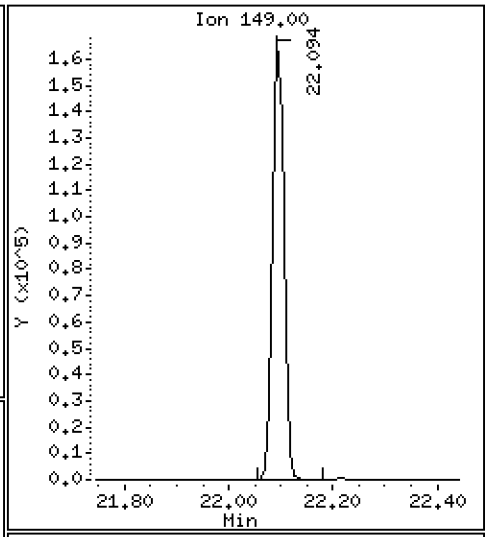
Column phase: ZB-5msi

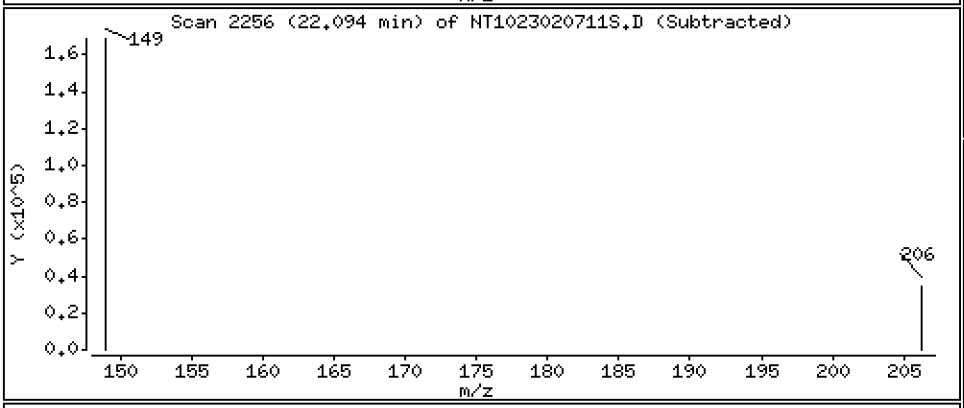
Column diameter: 0.25

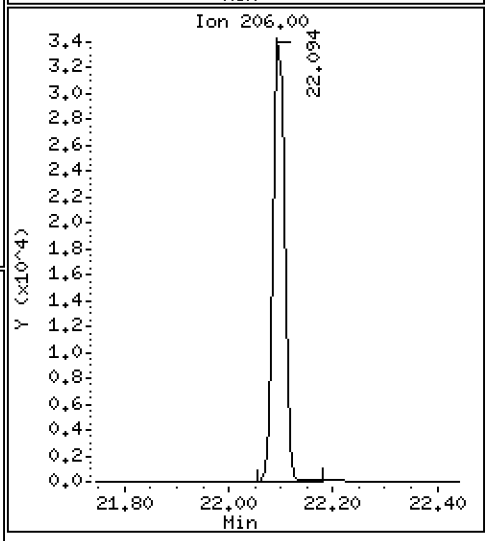
67 Butylbenzylphthalate

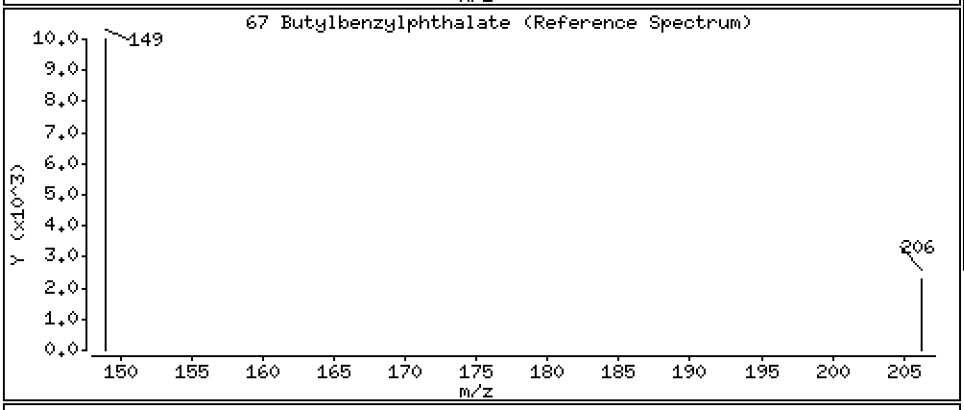
Concentration: 4.408 ug/L

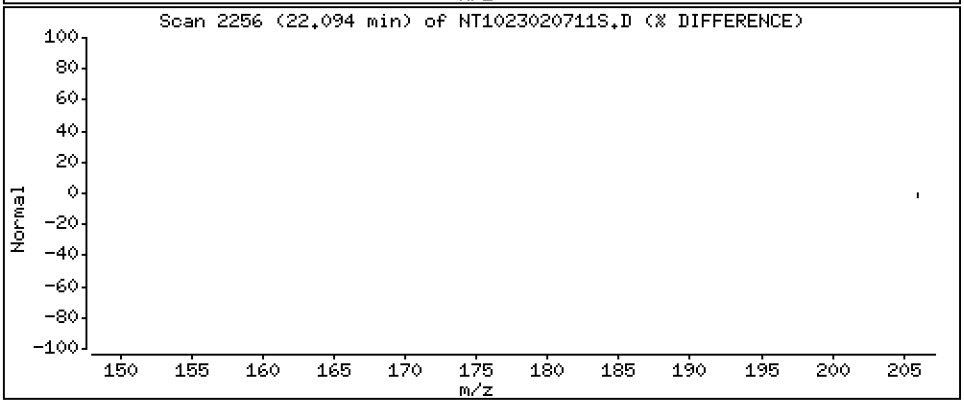












Date : 07-FEB-2023 18:04

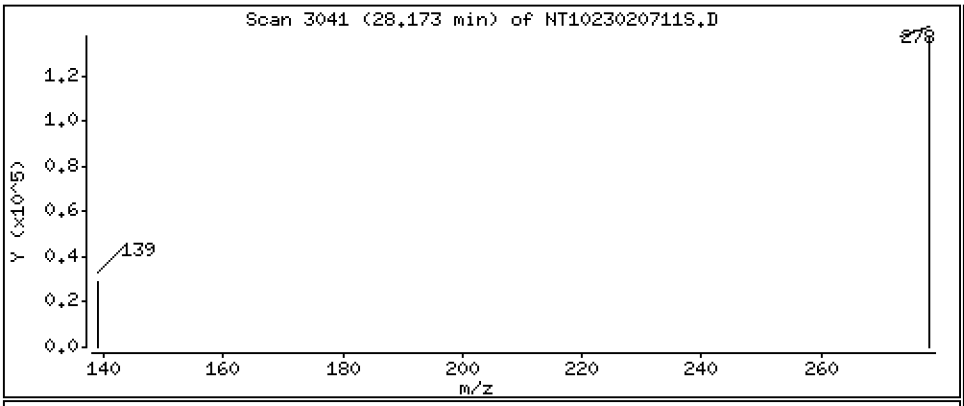
Client ID: Instrument: nt10.i

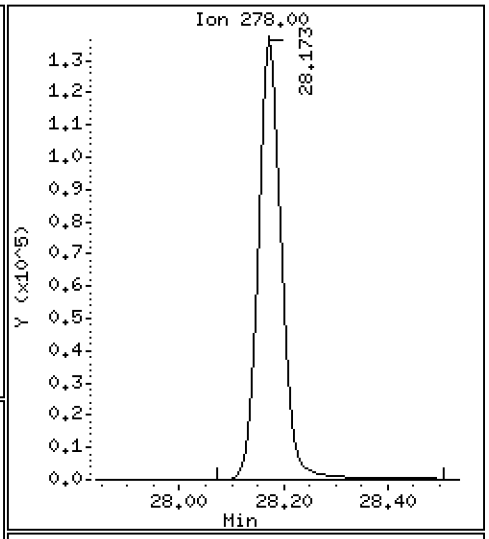
Sample Info: SLB0106-SCV1

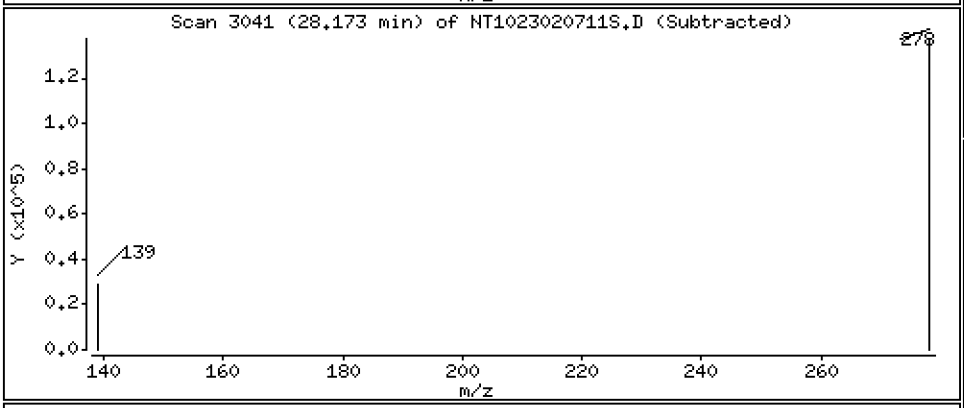
Volume Injected (uL): 1.0 Operator: DSD

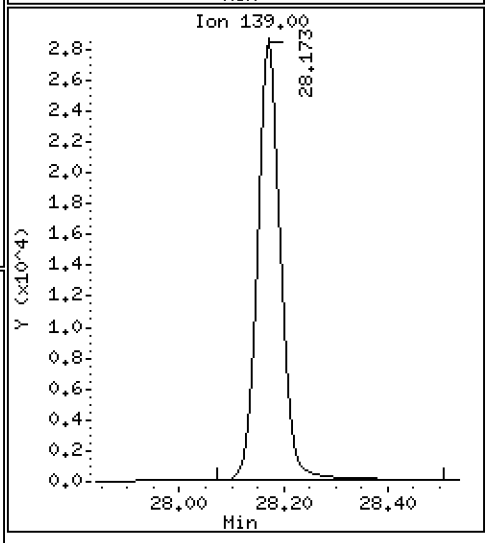
Column phase: ZB-5msi Column diameter: 0.25

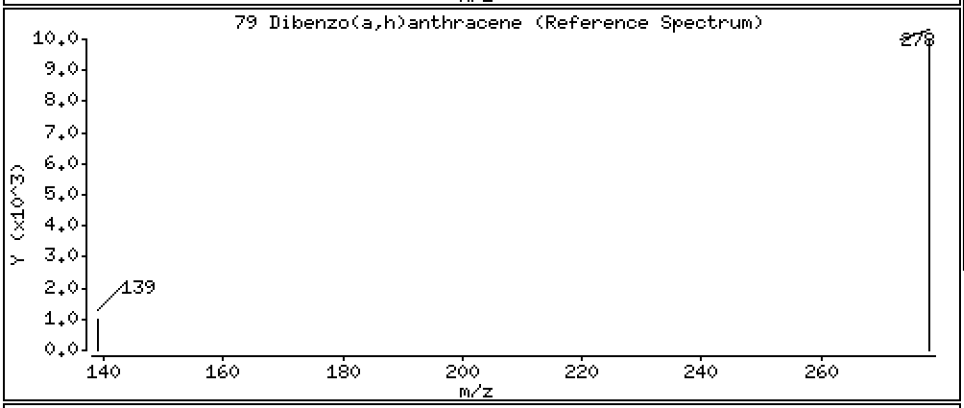
79 Dibenzo(a,h)anthracene Concentration: 4.213 ug/L

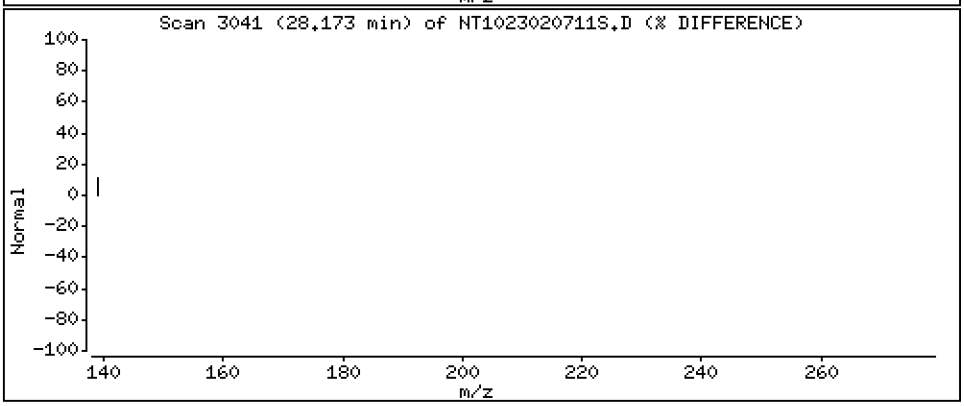












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

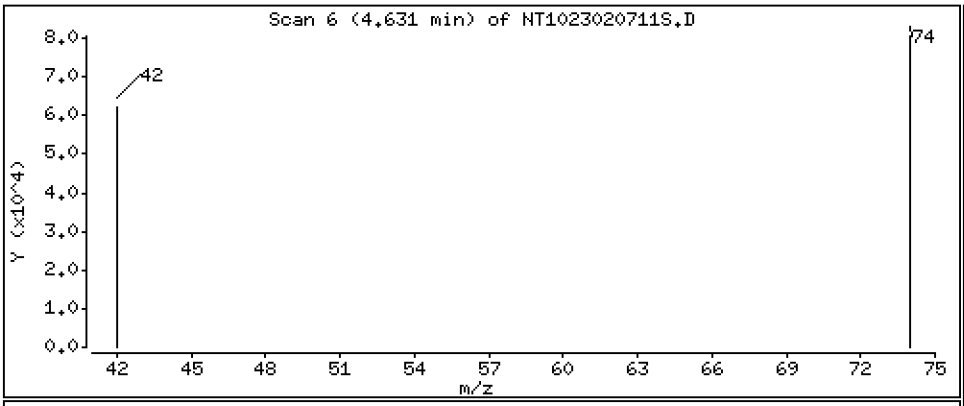
Operator: DSD

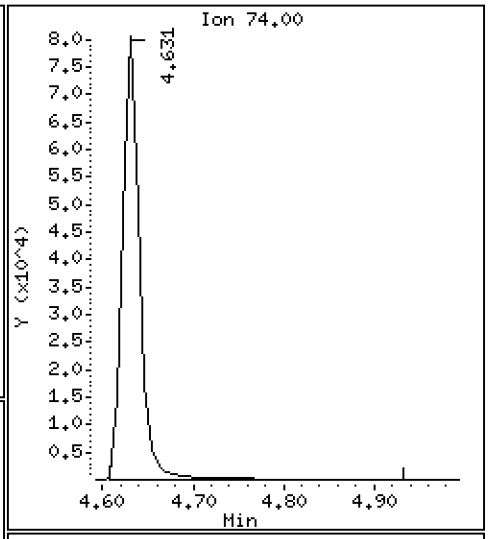
Column phase: ZB-5msi

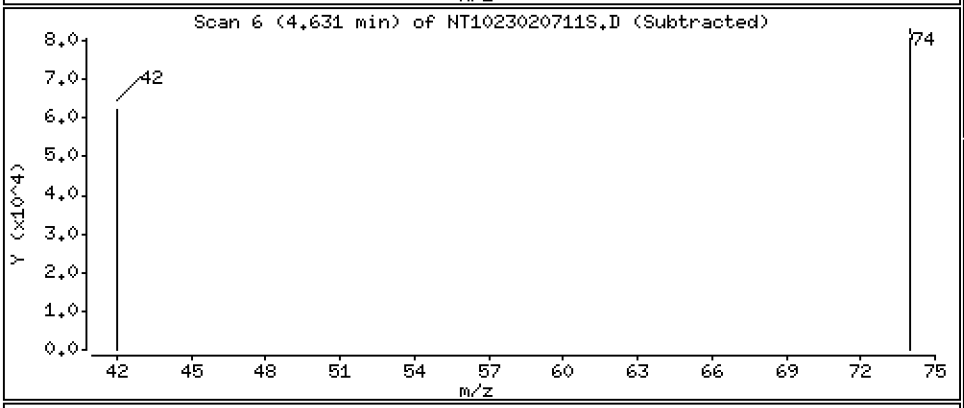
Column diameter: 0.25

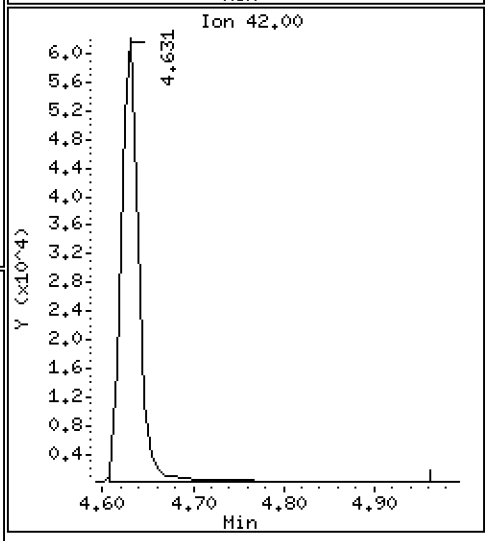
90 N-Nitrosodimethylamine

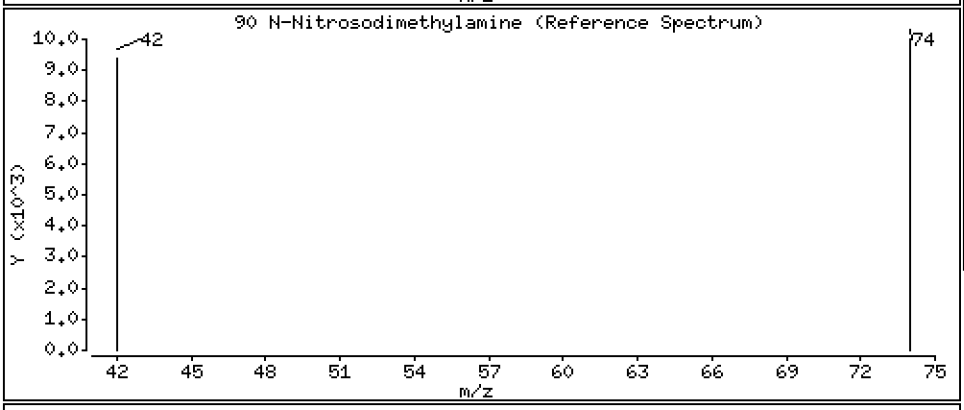
Concentration: 4.486 ug/L

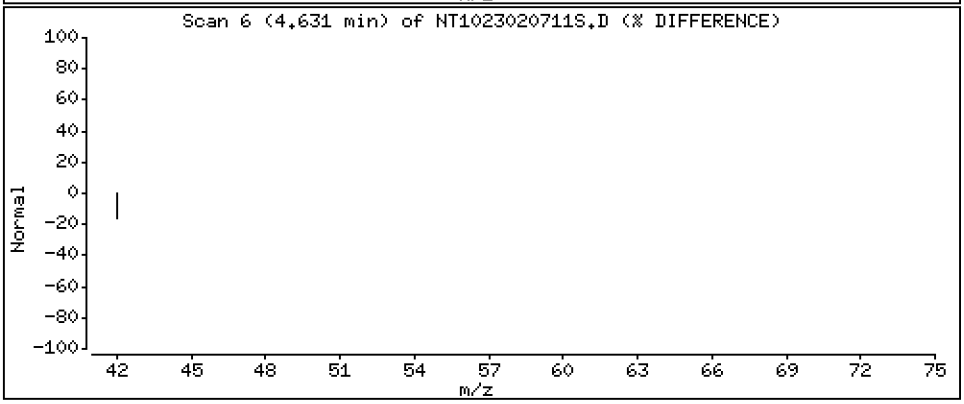












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020711S.D
Lab Smp Id: SLB0106-SCV1
Inj Date : 07-FEB-2023 18:04 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$	1 2-Fluorophenol	112	6.770	6.785	(0.755)	257806	6.97332	6.973(R)
	3 Phenol	94	8.362	8.369	(0.933)	232442	4.16958	4.170
	7 1,3-Dichlorobenzene	146	8.903	8.903	(0.993)	208793	4.15895	4.159
*	8 1,4-Dichlorobenzene-d4	152	8.965	8.965	(1.000)	121574	4.00000	
	9 1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	207977	4.23719	4.237
	11 Benzyl alcohol	79	9.228	9.267	(1.029)	133450	4.90710	4.907
	12 1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	201423	4.20453	4.205
	13 2-Methylphenol	108	9.461	9.469	(1.055)	138888	3.64937	3.649
	15 4-Methylphenol	108	9.733	9.741	(1.086)	154509	3.98044	3.980
	16 N-Nitroso-di-n-propylamine	70	9.780	9.780	(1.091)	121809	4.39583	4.396
	22 2,4-Dimethylphenol	107	10.754	10.763	(0.942)	134677	3.35264	3.353
	24 Benzoic acid	105	10.941	11.204	(0.958)	112855	5.88397	5.884
	26 1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	147977	3.93002	3.930
*	27 Naphthalene-d8	136	11.419	11.419	(1.000)	457304	4.00000	
	30 Hexachlorobutadiene	225	11.829	11.829	(1.036)	85644	4.16602	4.166
	39 Dimethylphthalate	163	14.514	14.514	(0.967)	225259	4.17269	4.173
*	42 Acenaphthene-d10	162	15.010	15.002	(1.000)	231625	4.00000	
	50 Diethylphthalate	149	15.960	15.961	(1.063)	348168	4.28244	4.282
	54 N-Nitrosodiphenylamine	169	16.339	16.346	(0.907)	286918	4.20471	4.205
	57 Hexachlorobenzene	284	17.404	17.404	(0.966)	116927	4.02634	4.026

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.760	17.799	(0.986)	41808	3.99436	3.994
*	59 Phenanthrene-d10	188	18.015	18.015	(1.000)	412906	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.917)	336208	4.23932	4.239(R)
	67 Butylbenzylphthalate	149	22.093	22.094	(0.958)	236283	4.40766	4.408
*	69 Chrysene-d12	240	23.069	23.061	(1.000)	357298	4.00000	
*	77 Perylene-d12	264	25.616	25.616	(1.000)	361150	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.173	28.188	(1.100)	426459	4.21339	4.213
	90 N-Nitrosodimethylamine	74	4.631	4.646	(0.517)	108685	4.48609	4.486

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020711S.D
Lab Smp Id: SLB0106-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	121574	-5.61
27 Naphthalene-d8	469043	234522	938086	457304	-2.50
42 Acenaphthene-d10	233225	116613	466450	231625	-0.69
59 Phenanthrene-d10	433858	216929	867716	412906	-4.83
69 Chrysene-d12	361809	180905	723618	357298	-1.25
77 Perylene-d12	380407	190204	760814	361150	-5.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.97	0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.01	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.00
69 Chrysene-d12	23.06	22.56	23.56	23.07	0.03
77 Perylene-d12	25.62	25.12	26.12	25.62	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020711S.D

Lab ID: SLB0106-SCV1
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 18:04

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.958	0.000	0.9581	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00019
Laboratory ID: SLB0106-SCV1
Sequence: SLB0106
Sequence Name: SCV 5.0
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
1,4-Dichlorobenzene	5.0000	4.2	-15.3	20.00
1,2-Dichlorobenzene	5.0000	4.2	-15.9	20.00
Benzyl Alcohol	5.0000	4.9	-1.9	20.00
Benzoic acid	10.000	5.9	-41.2 *	20.00
2,4-Dimethylphenol	5.0000	3.4	-32.9 *	20.00
1,2,4-Trichlorobenzene	5.0000	3.9	-21.4 *	20.00
N-Nitrosodiphenylamine	5.0000	4.2	-15.9	20.00
Pentachlorophenol	5.0000	4.0	-20.1 *	20.00
2-Fluorophenol	7.5000	6.97	-7.0	
p-Terphenyl-d14	5.0000	4.24	-15.2	

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Page 1

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

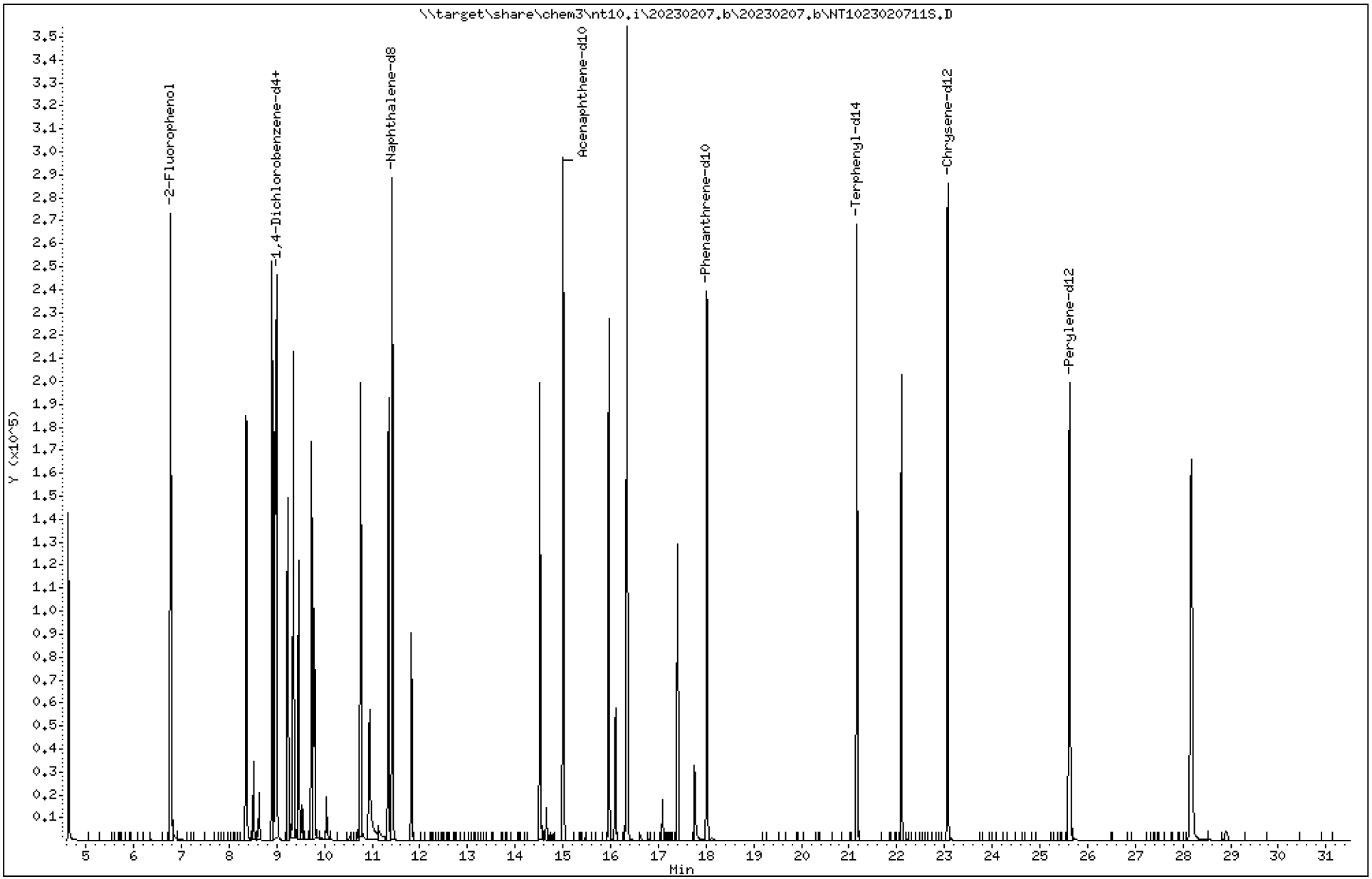
Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

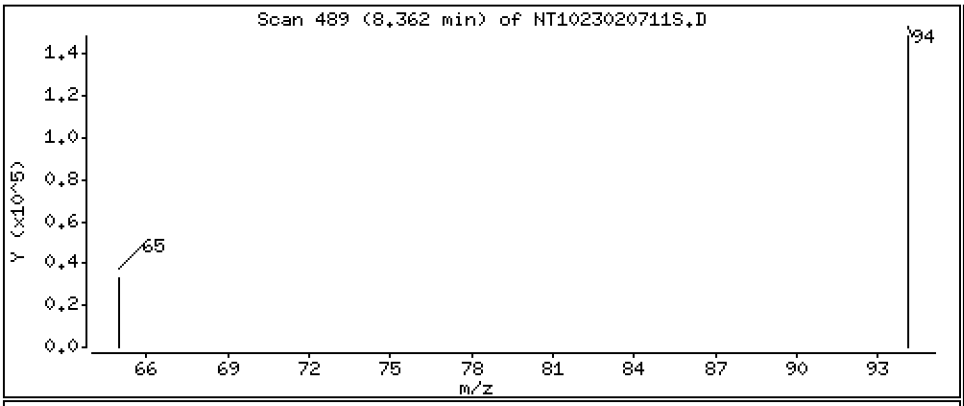
Operator: DSD

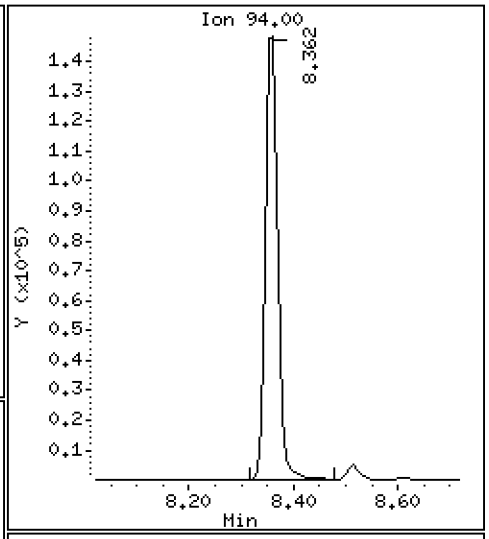
Column phase: ZB-5msi

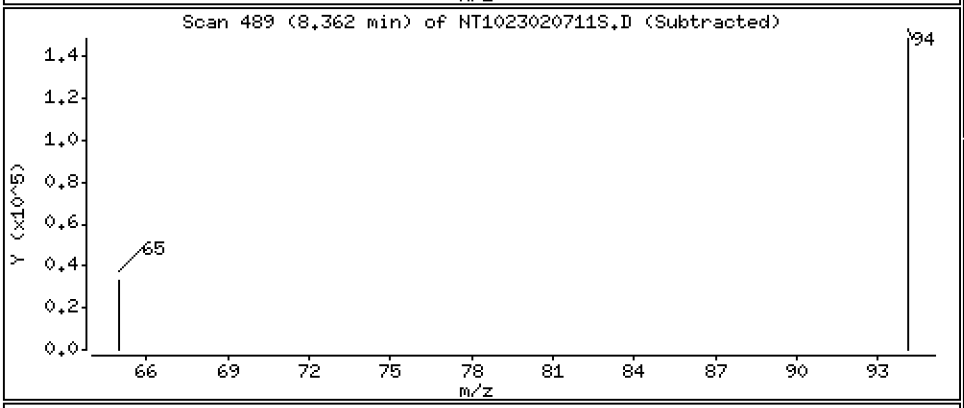
Column diameter: 0.25

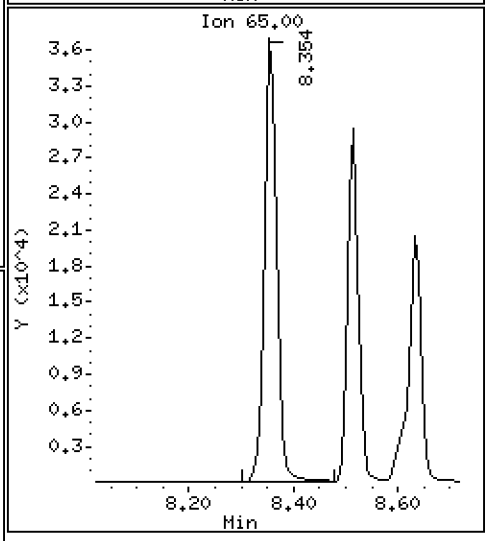
3 Phenol

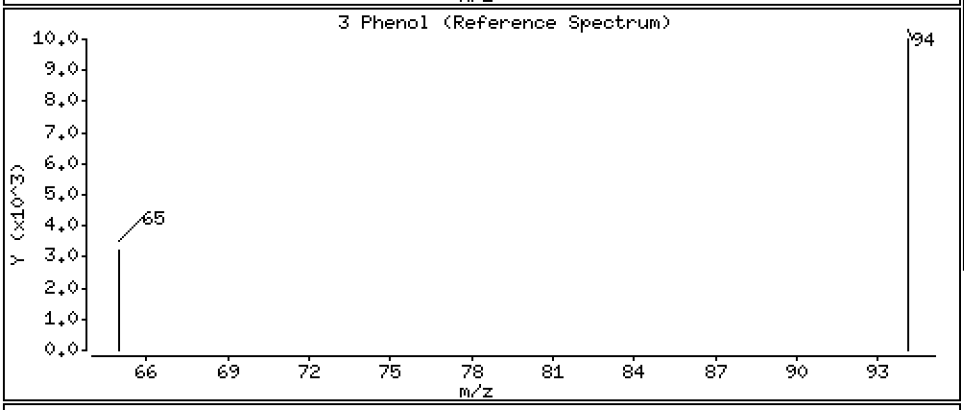
Concentration: 4.170 ug/L

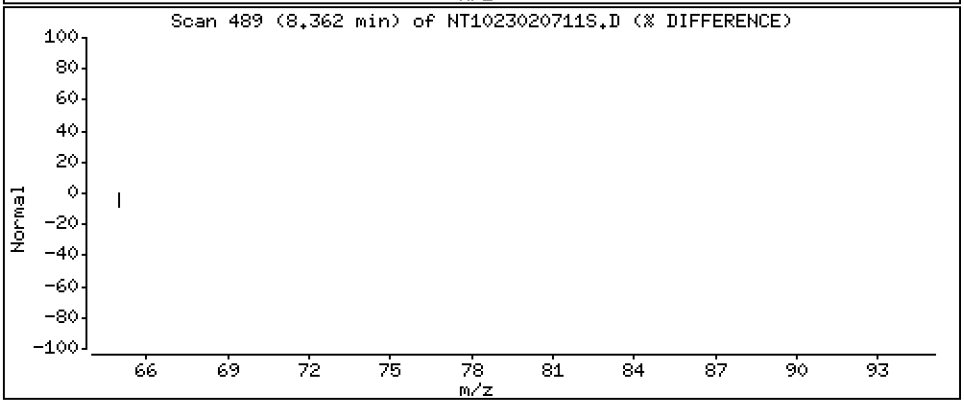












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

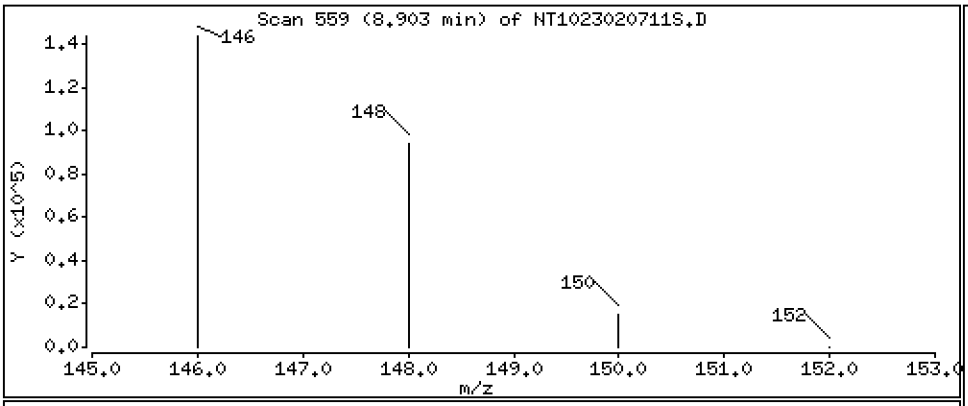
Operator: DSD

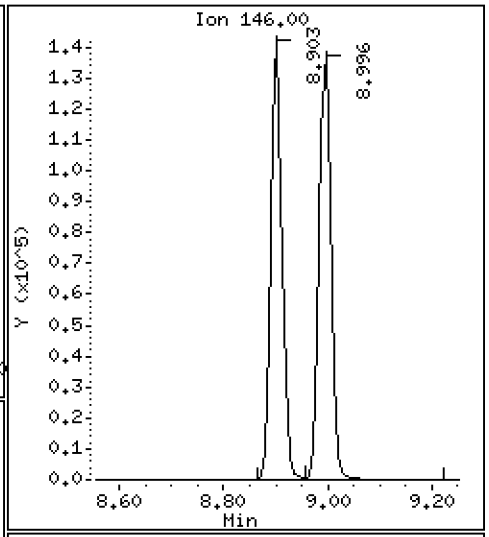
Column phase: ZB-5msi

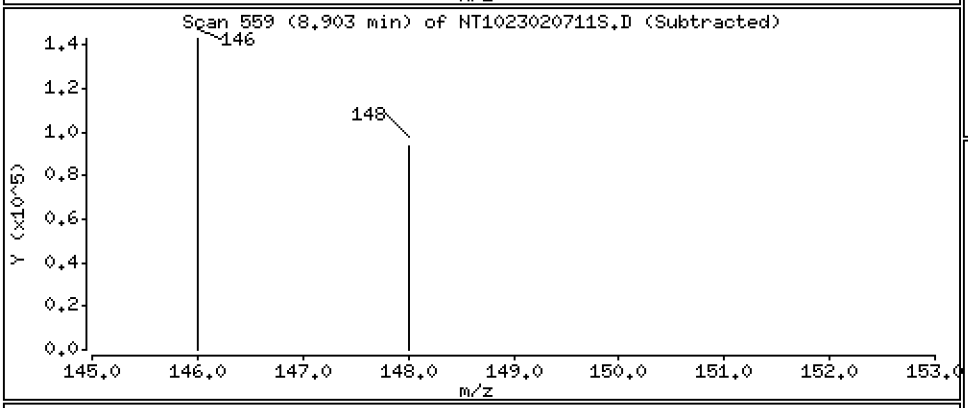
Column diameter: 0.25

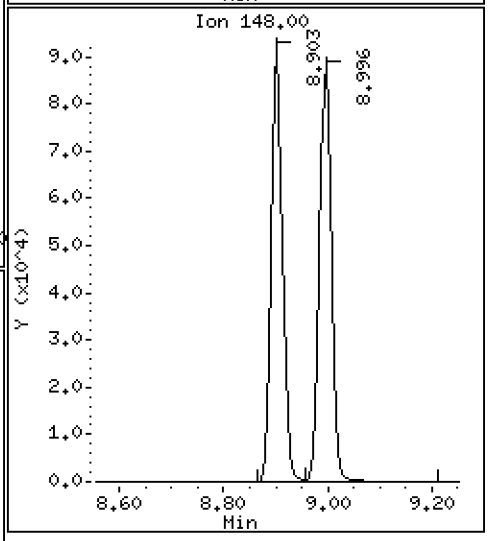
7 1,3-Dichlorobenzene

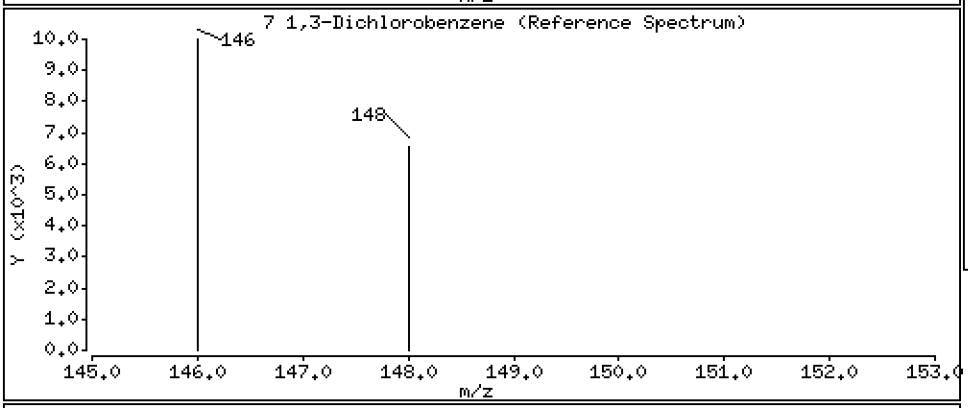
Concentration: 4.159 ug/L

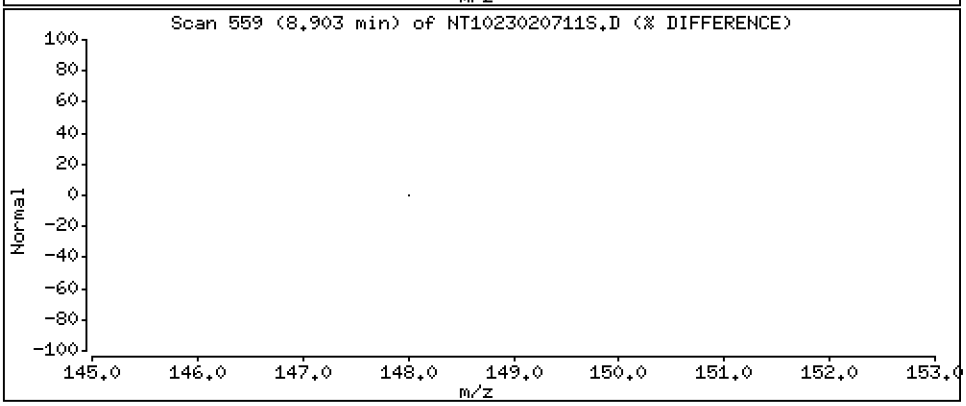












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

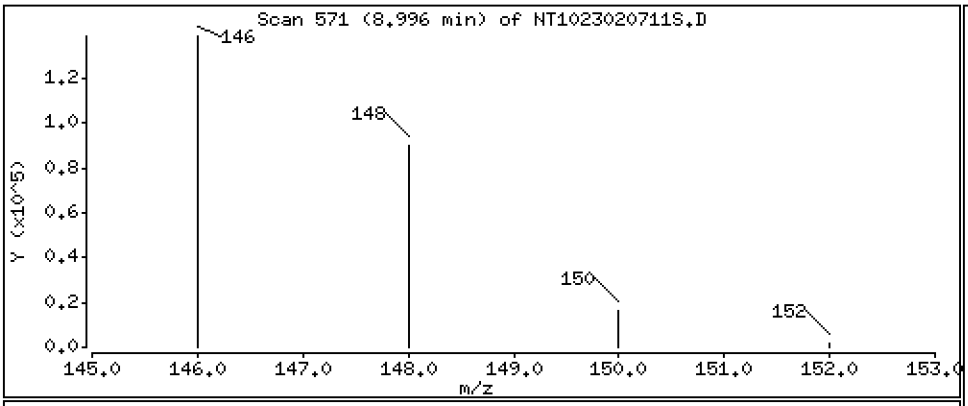
Operator: DSD

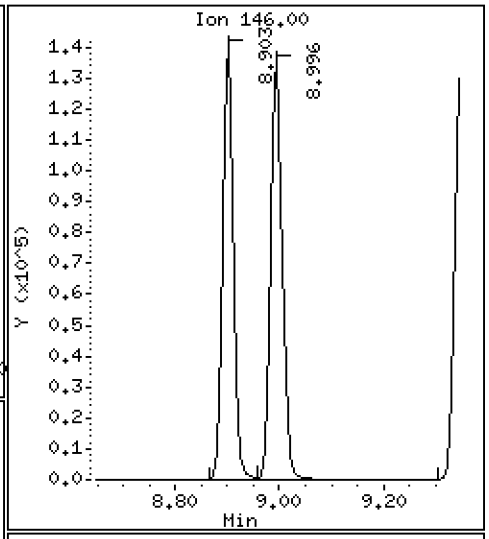
Column phase: ZB-5msi

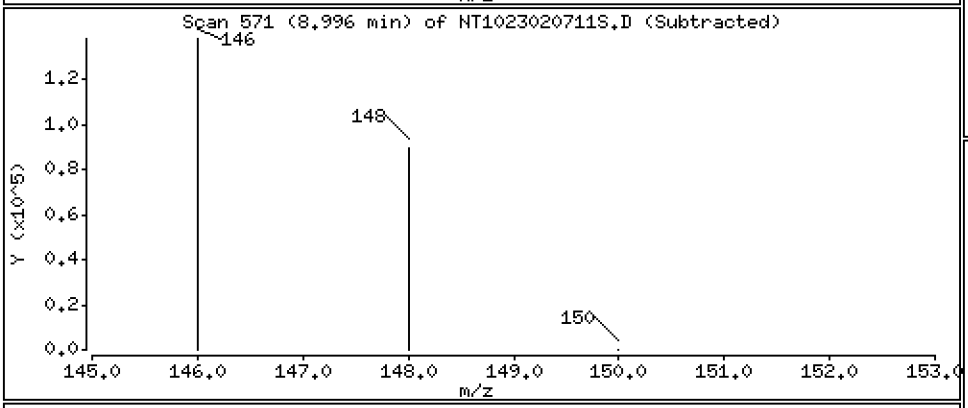
Column diameter: 0.25

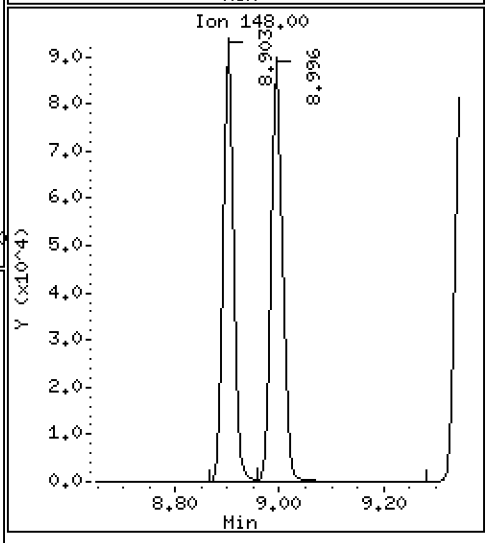
9 1,4-Dichlorobenzene

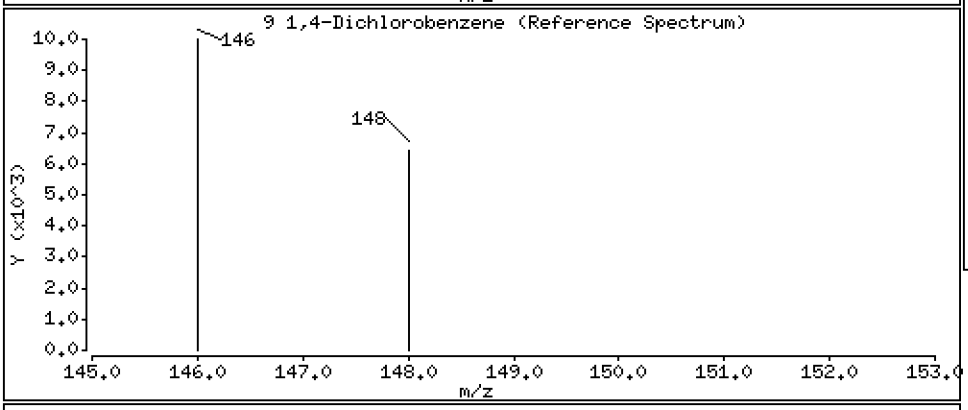
Concentration: 4.237 ug/L

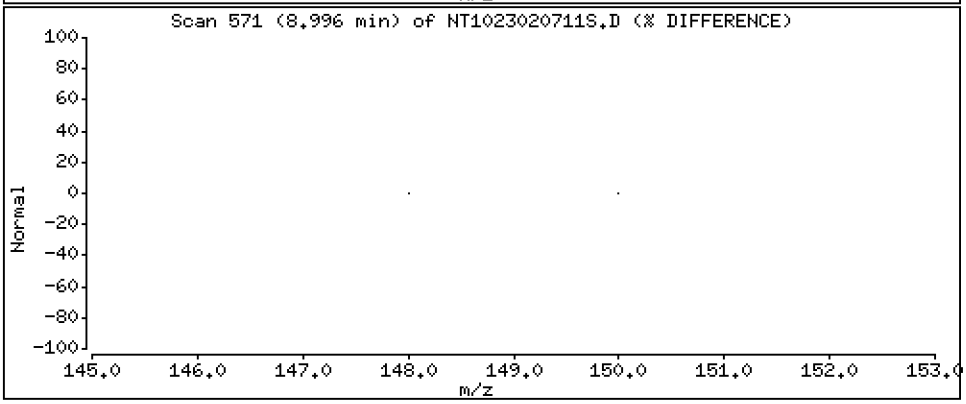












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

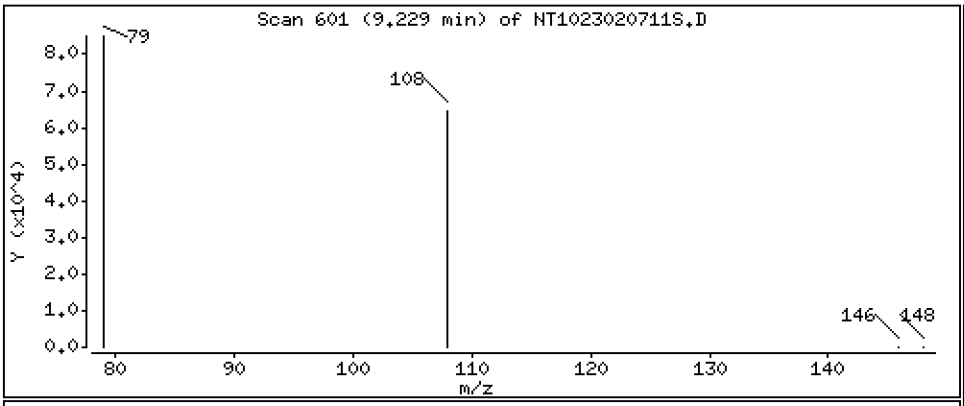
Operator: DSD

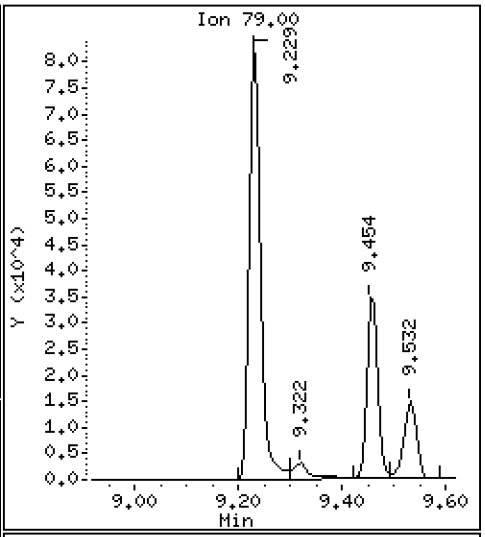
Column phase: ZB-5msi

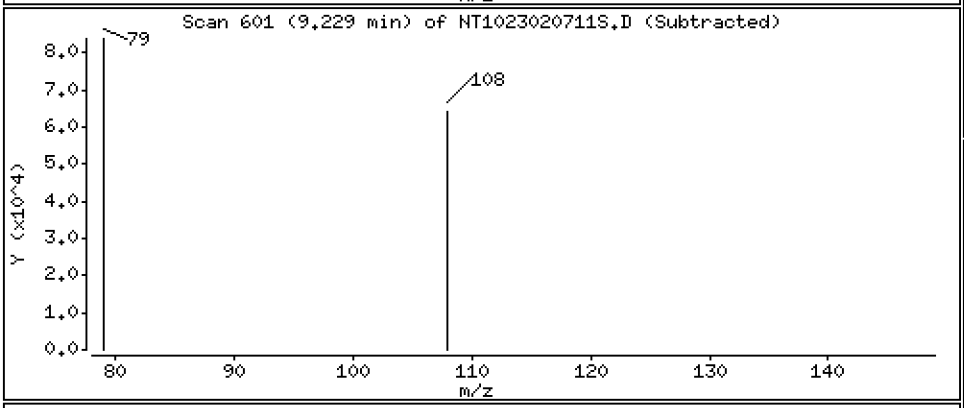
Column diameter: 0.25

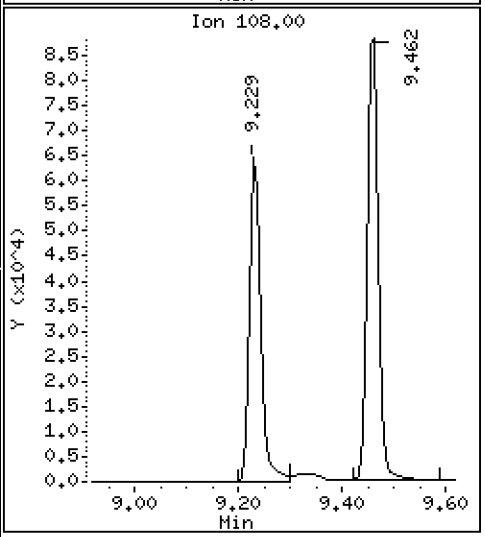
11 Benzyl alcohol

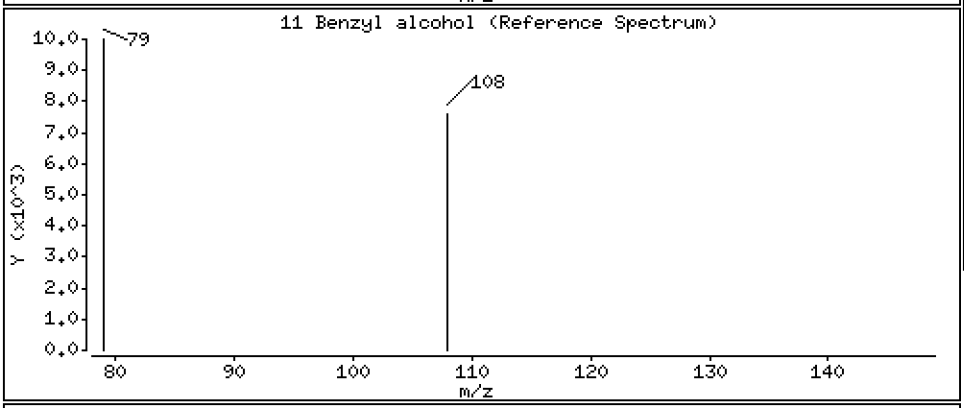
Concentration: 4.907 ug/L

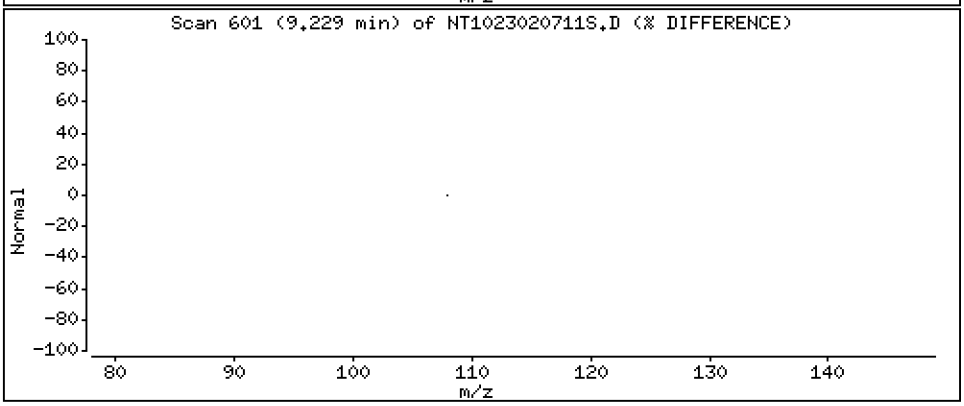












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

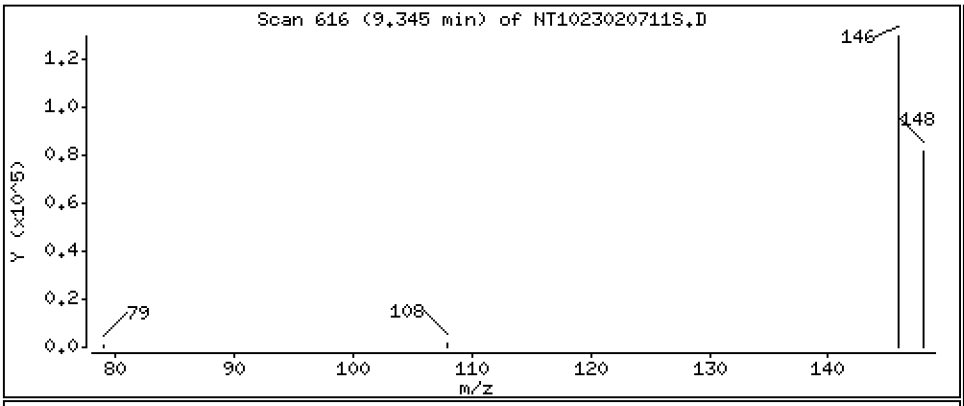
Operator: DSD

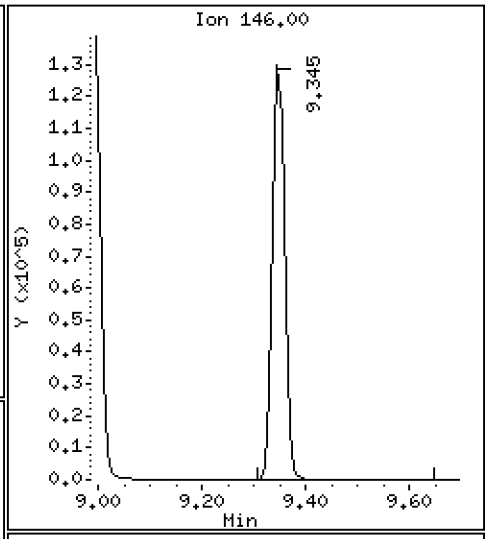
Column phase: ZB-5msi

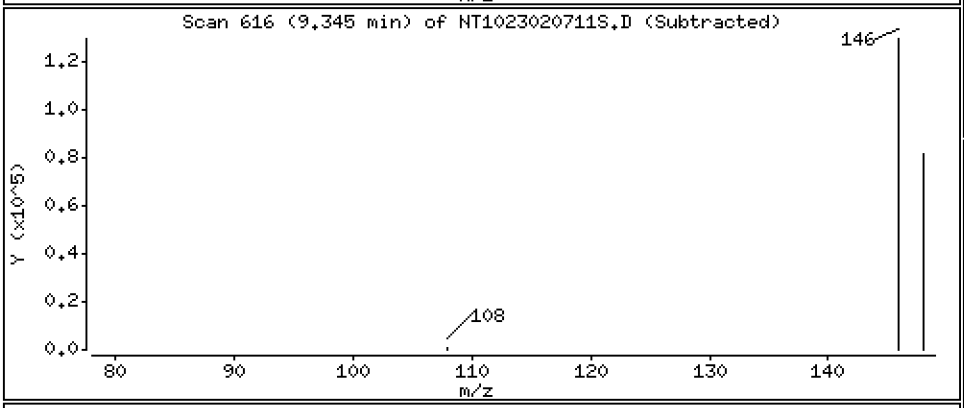
Column diameter: 0.25

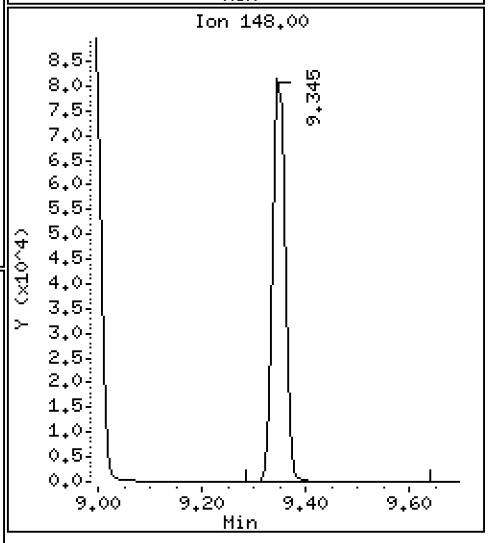
12 1,2-Dichlorobenzene

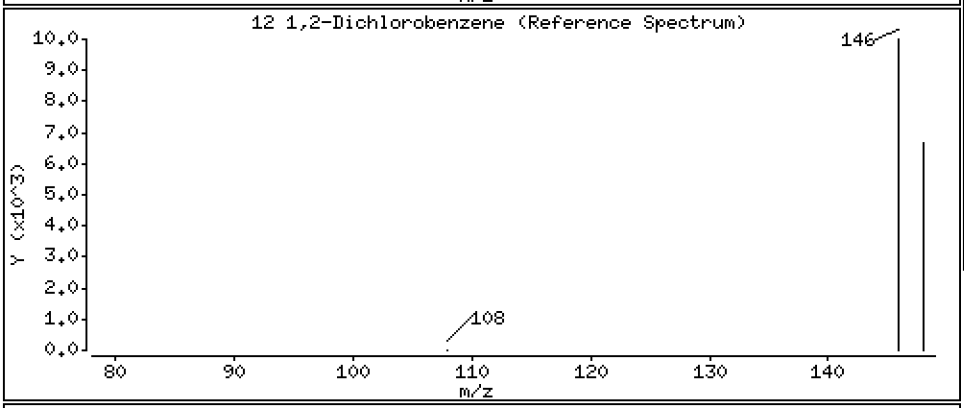
Concentration: 4.205 ug/L

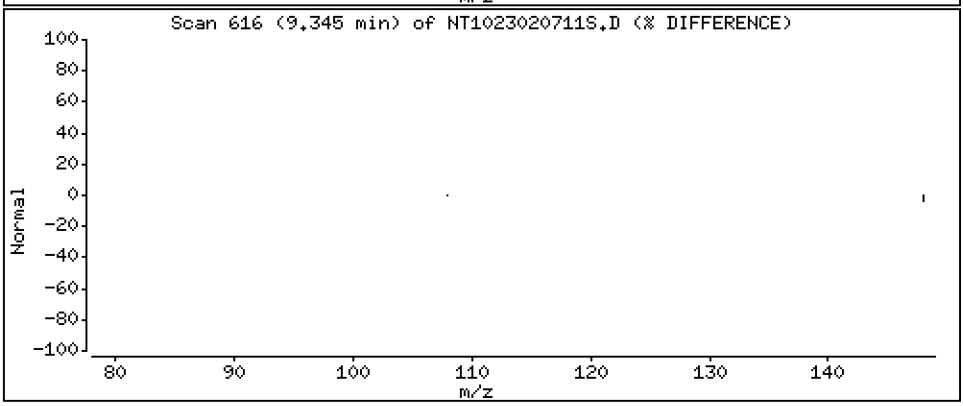












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

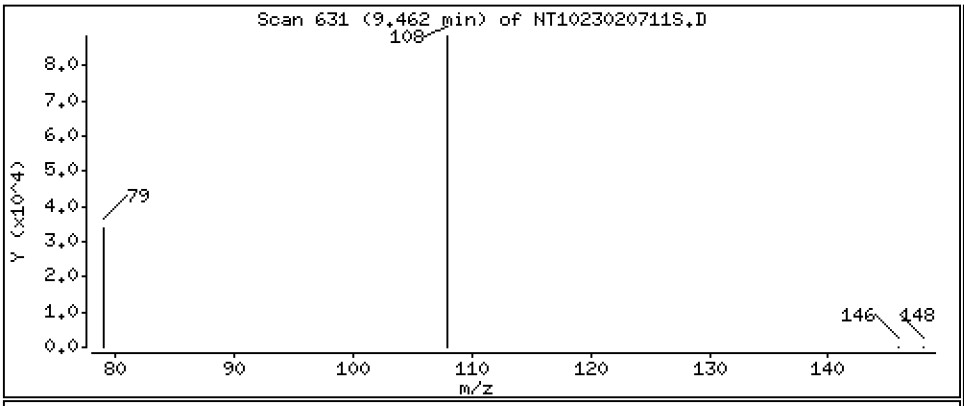
Operator: DSD

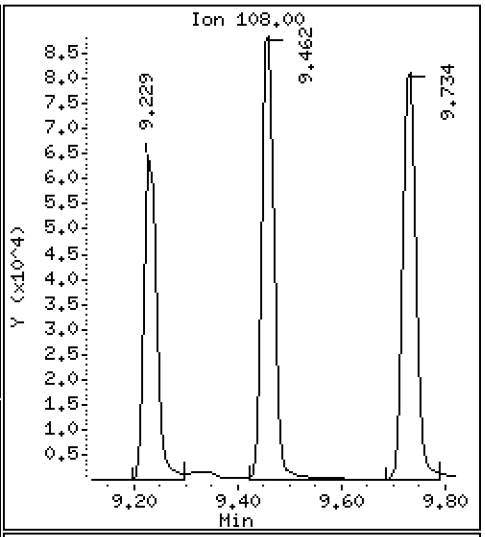
Column phase: ZB-5msi

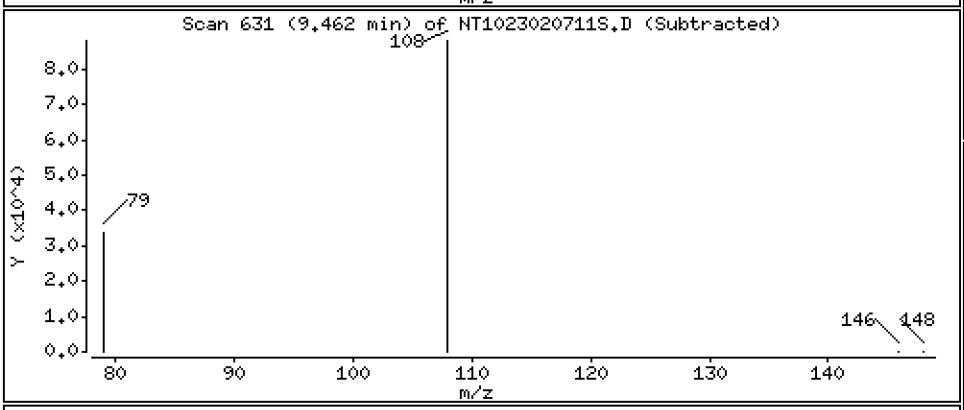
Column diameter: 0.25

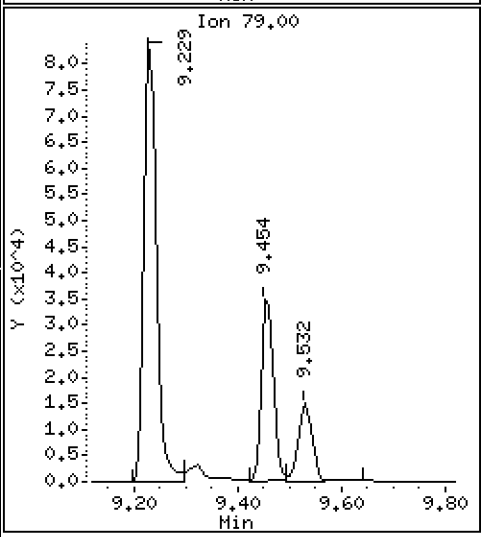
13 2-Methylphenol

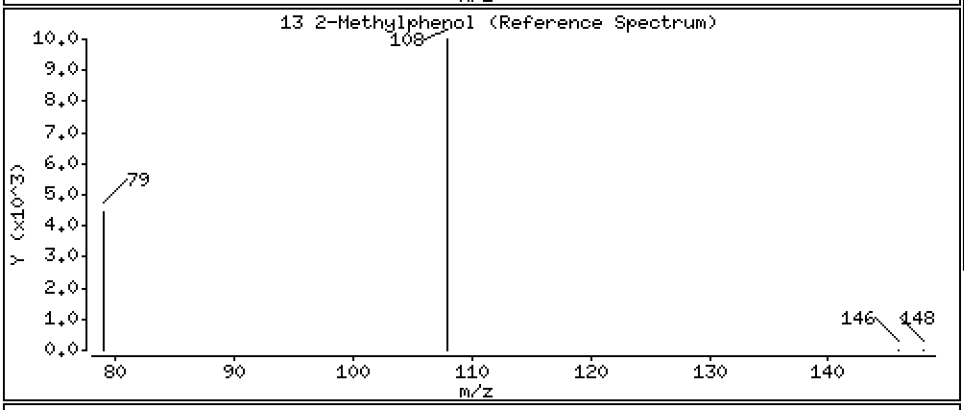
Concentration: 3.649 ug/L

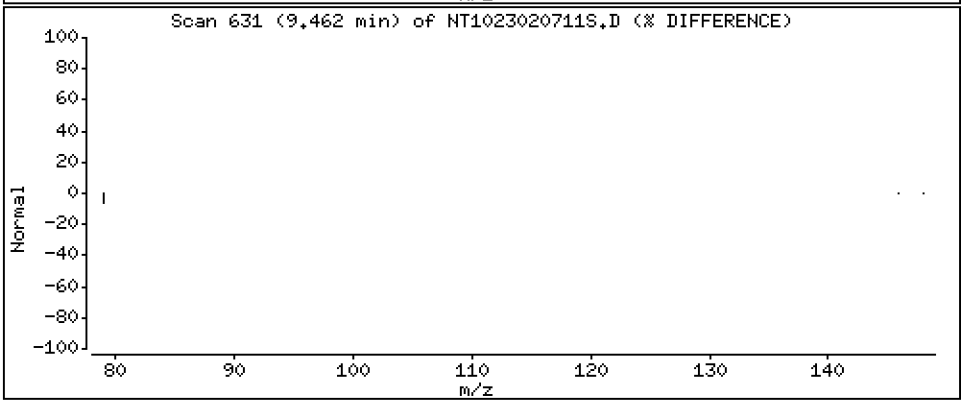












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020711S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

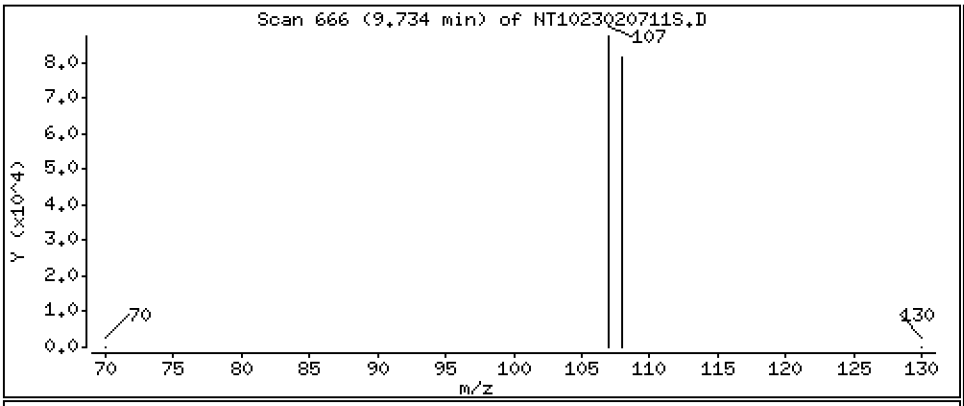
Operator: DSD

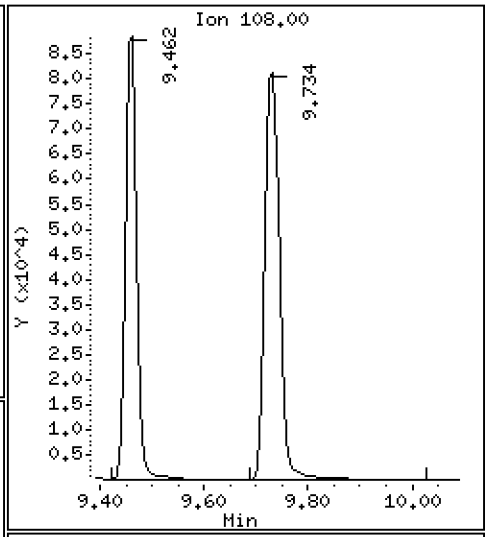
Column phase: ZB-5msi

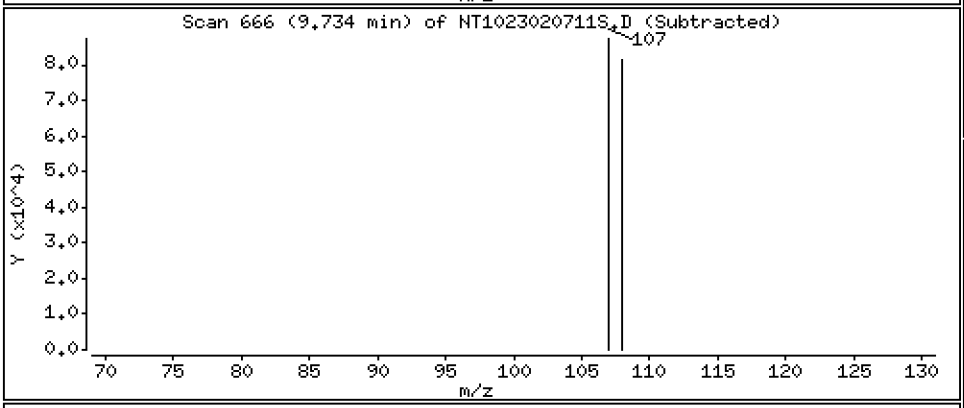
Column diameter: 0.25

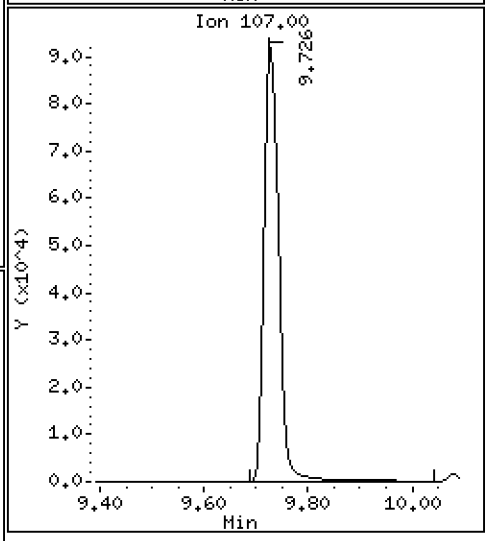
15 4-Methylphenol

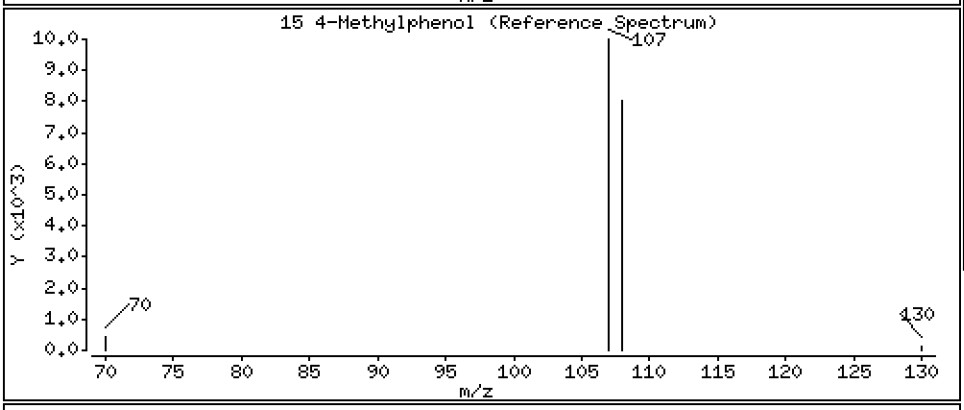
Concentration: 3.980 ug/L

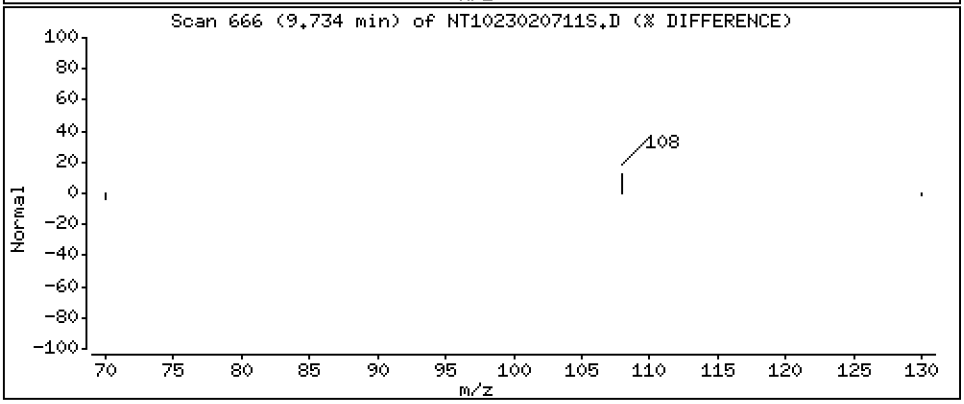












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

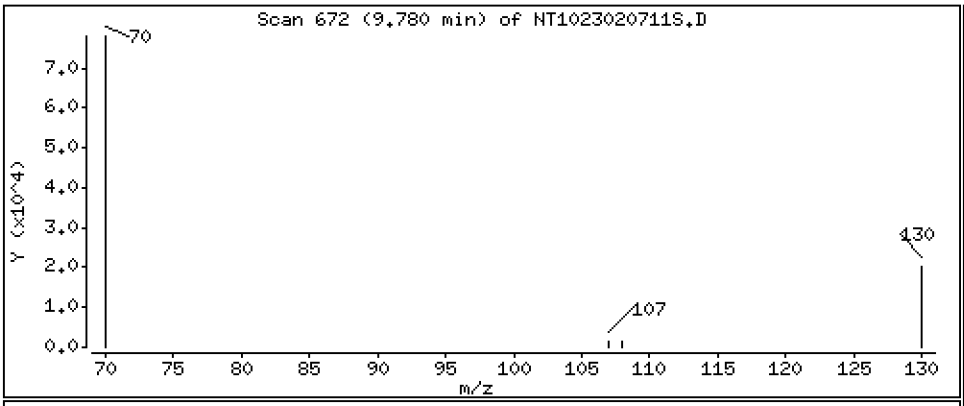
Operator: DSD

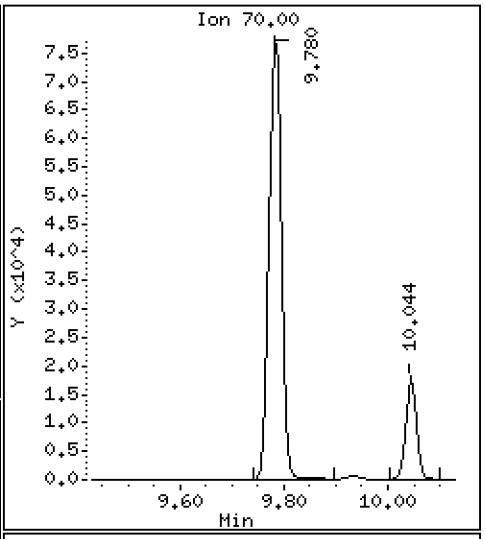
Column phase: ZB-5msi

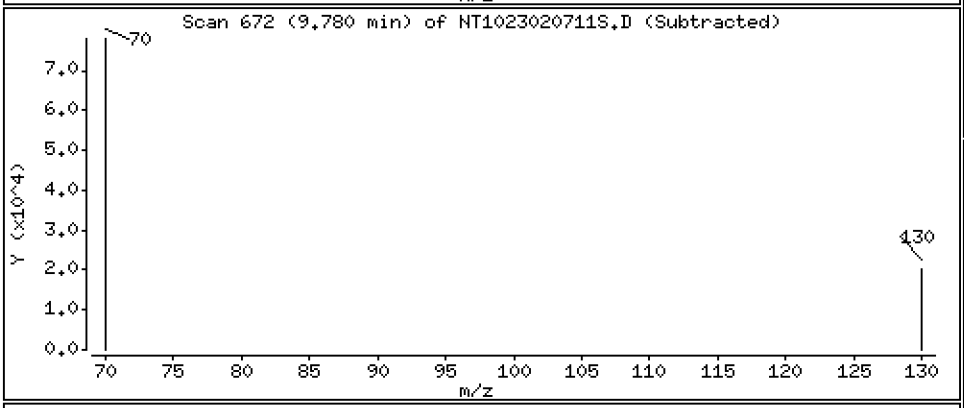
Column diameter: 0.25

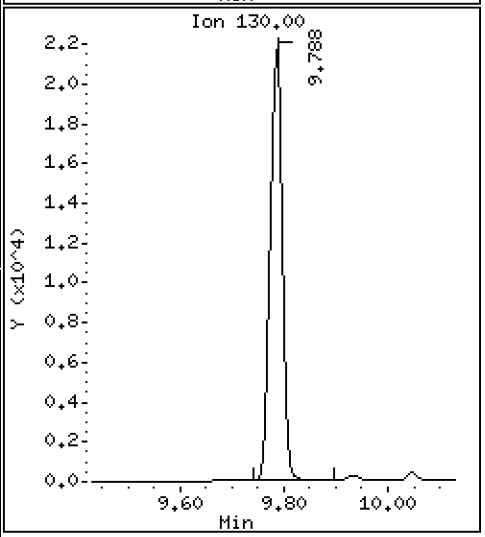
16 N-Nitroso-di-n-propylamine

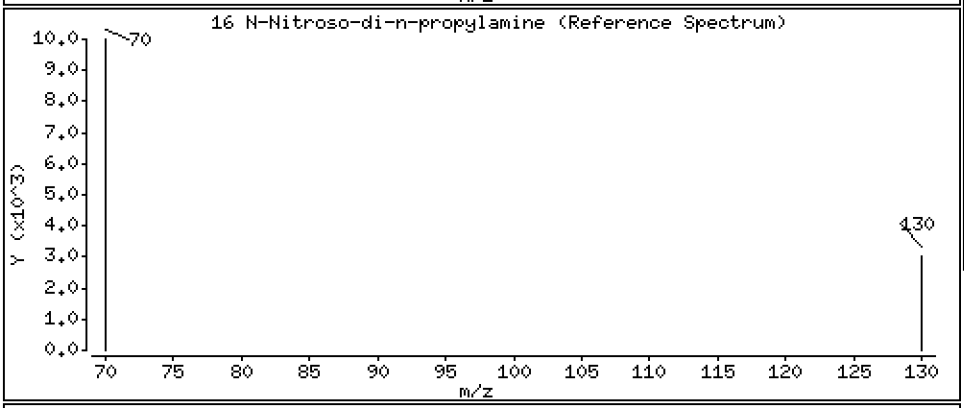
Concentration: 4.396 ug/L

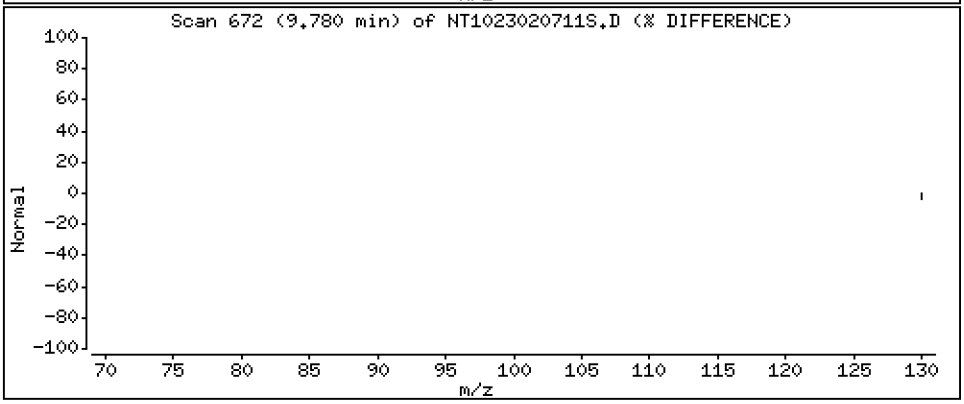












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

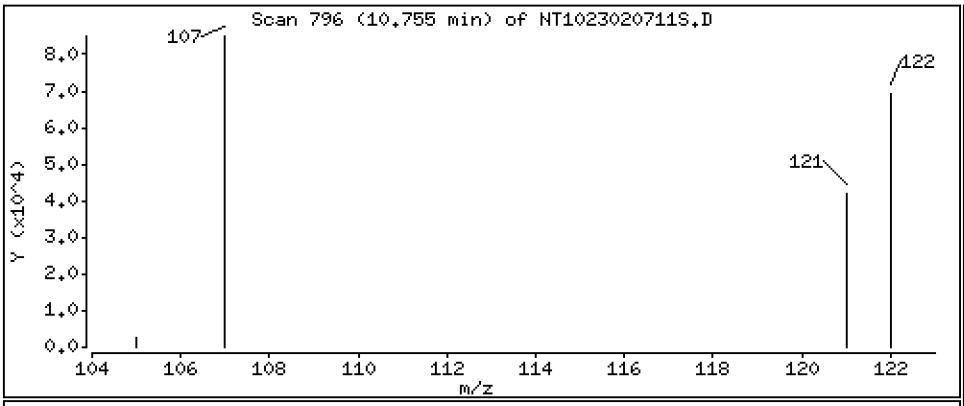
Operator: DSD

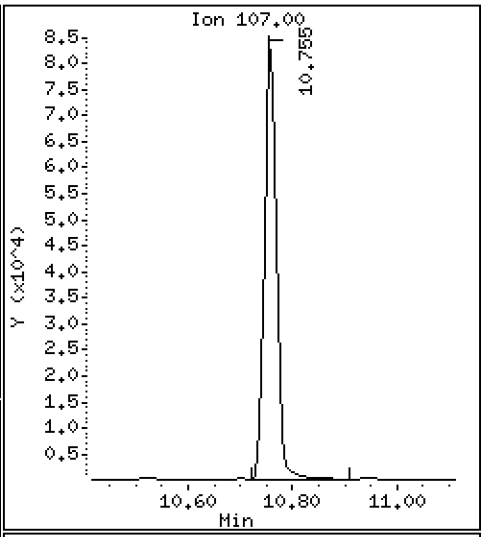
Column phase: ZB-5msi

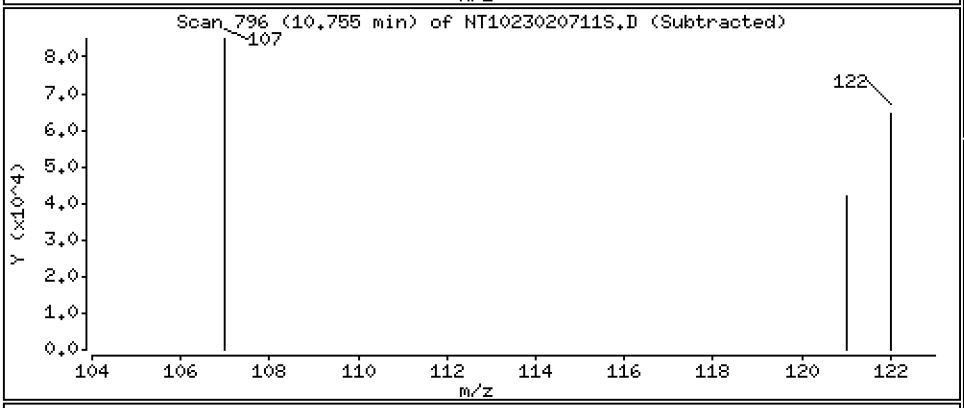
Column diameter: 0.25

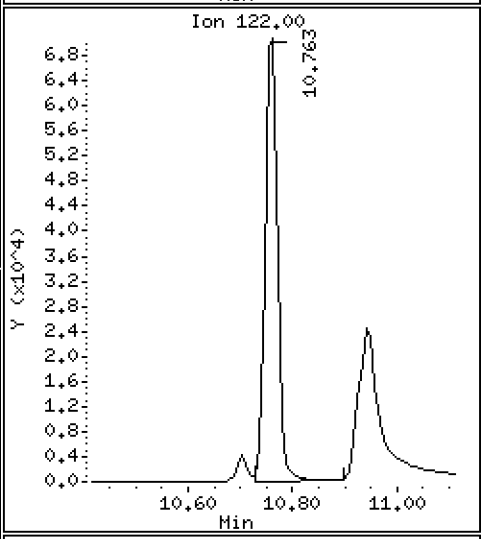
22 2,4-Dimethylphenol

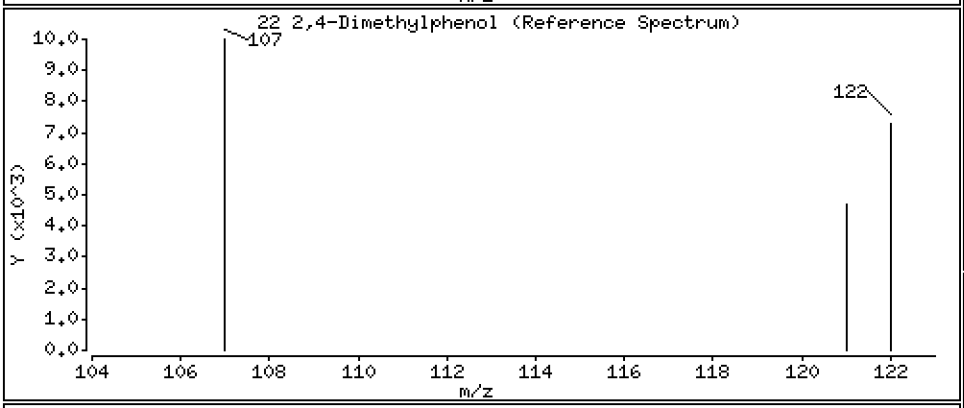
Concentration: 3.353 ug/L

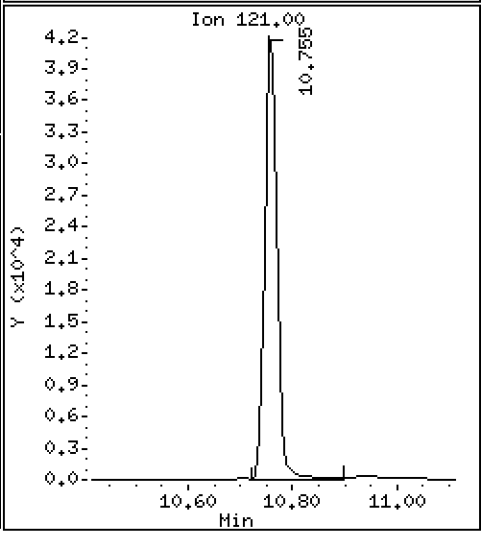


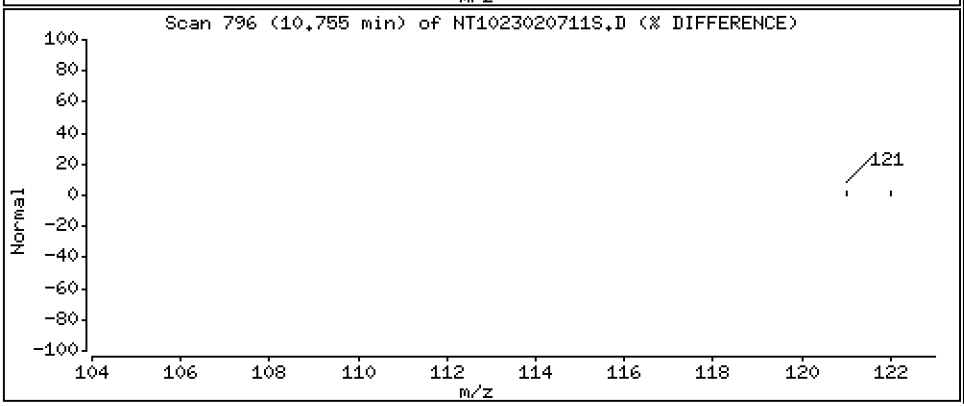












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

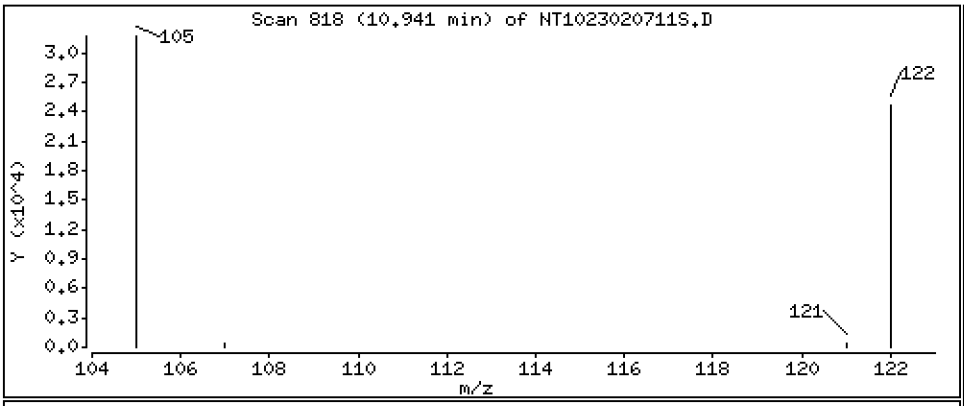
Operator: DSD

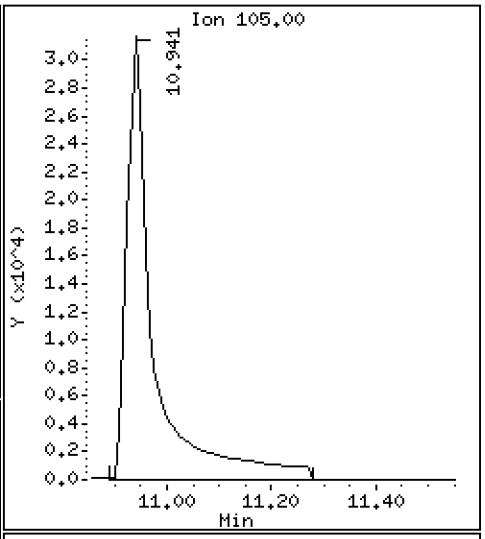
Column phase: ZB-5msi

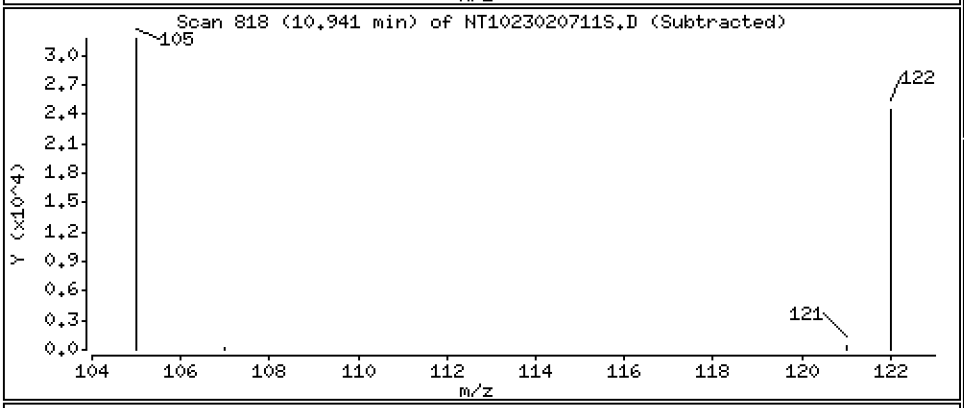
Column diameter: 0.25

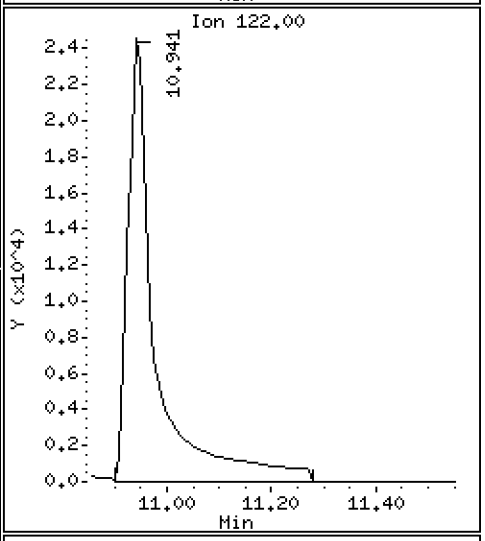
24 Benzoic acid

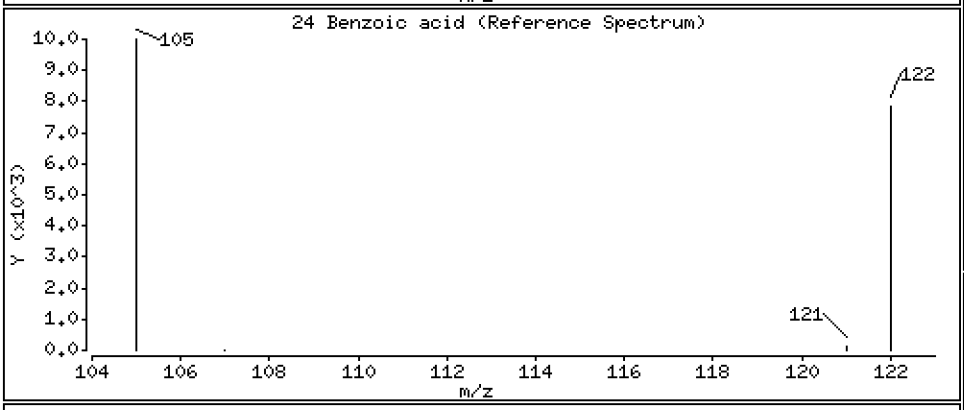
Concentration: 5.884 ug/L

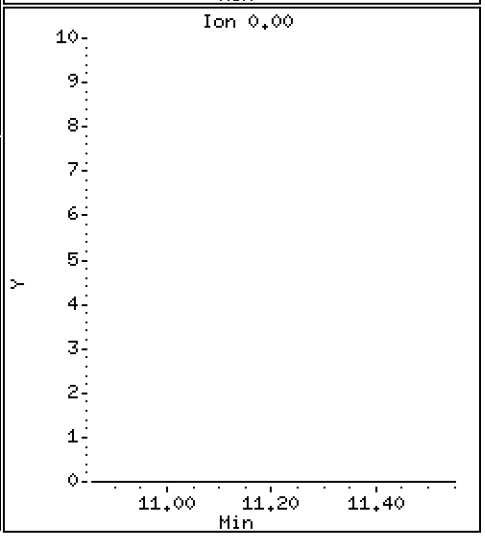


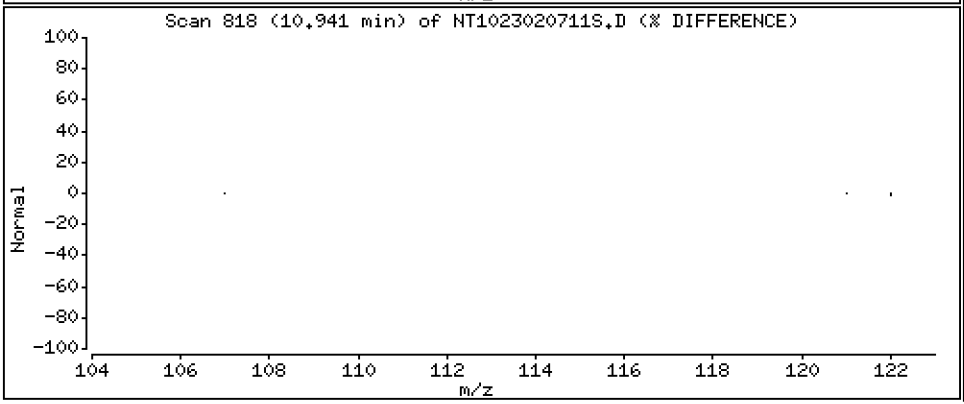












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

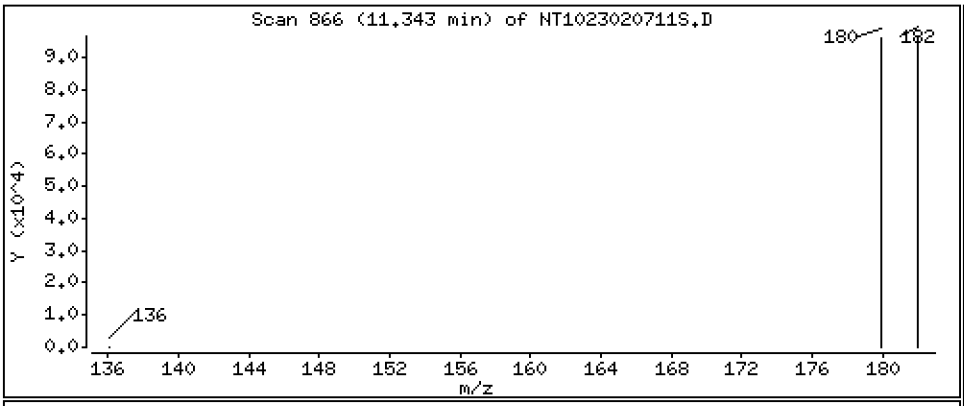
Operator: DSD

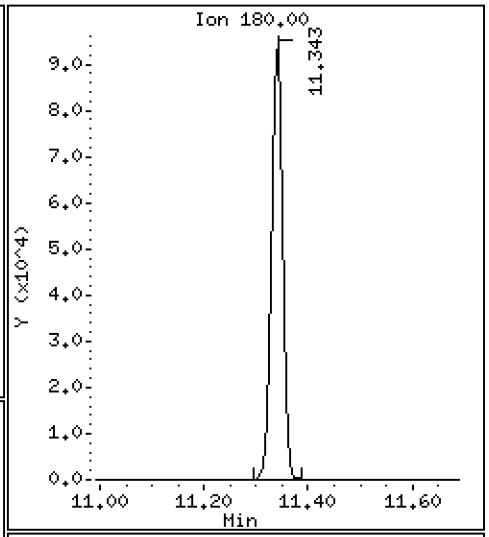
Column phase: ZB-5msi

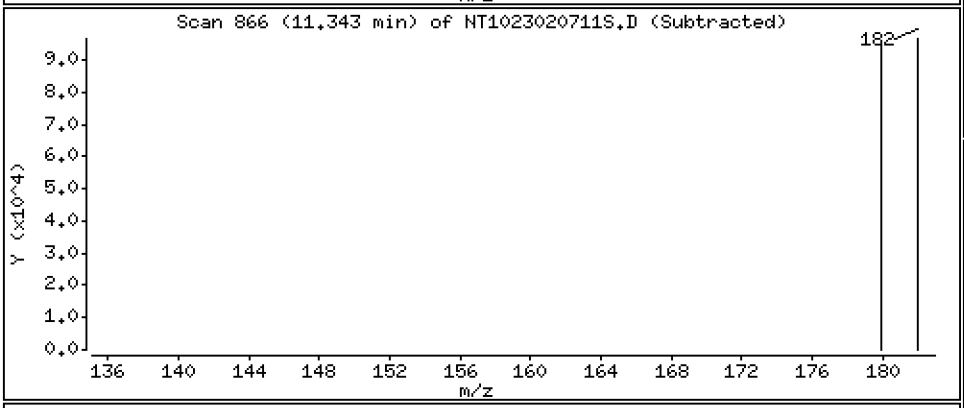
Column diameter: 0.25

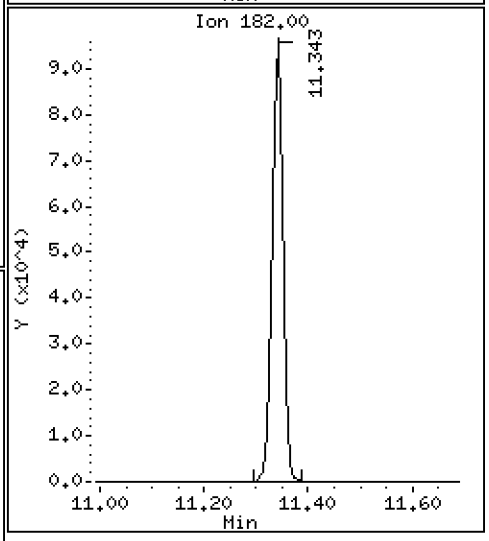
26 1,2,4-Trichlorobenzene

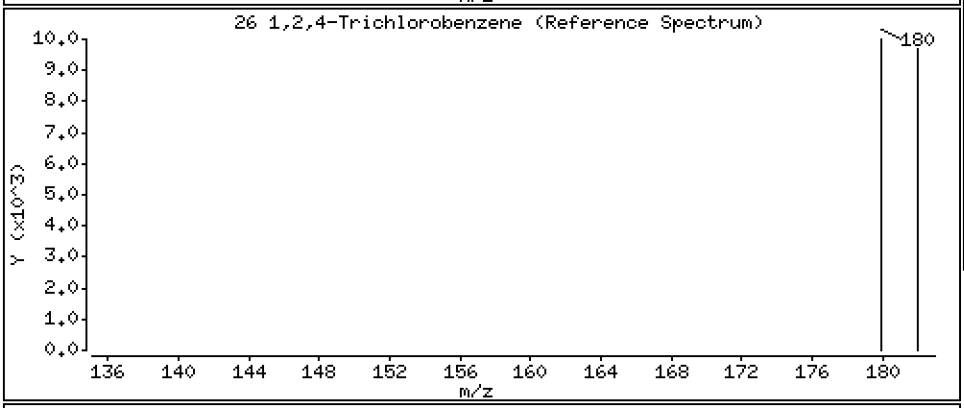
Concentration: 3.930 ug/L

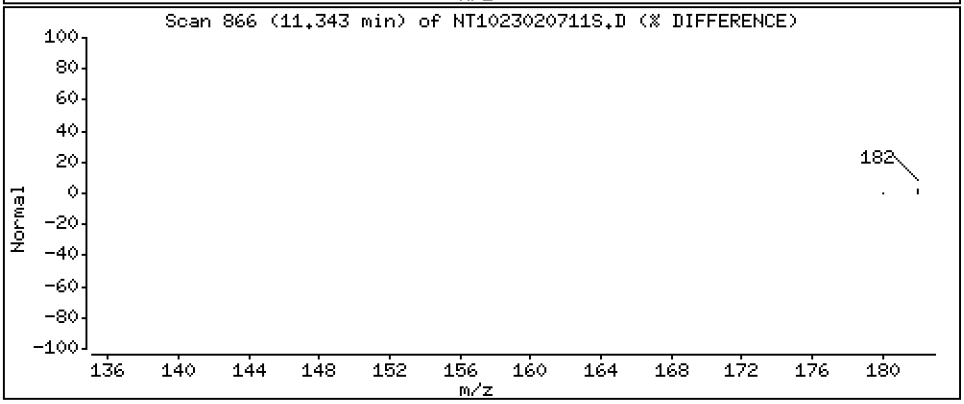












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

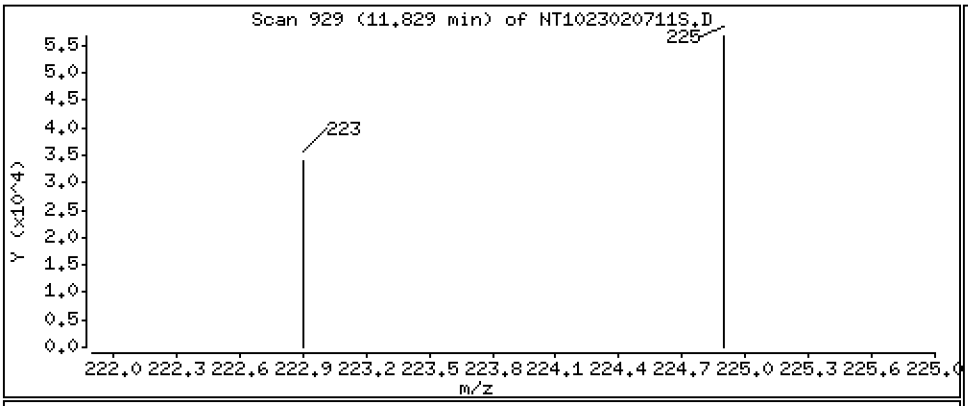
Operator: DSD

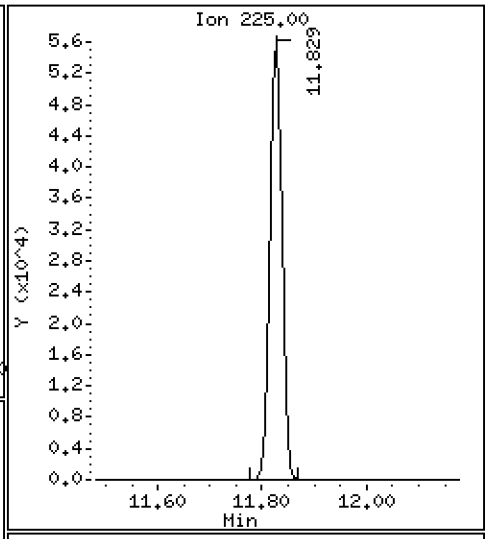
Column phase: ZB-5msi

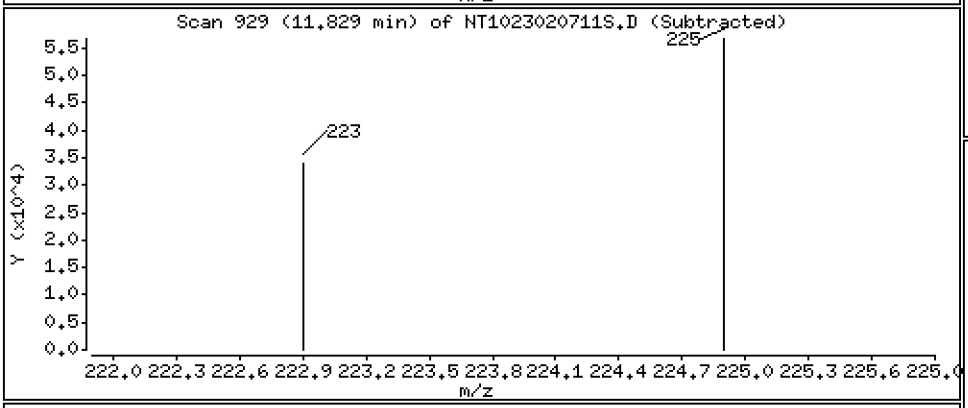
Column diameter: 0.25

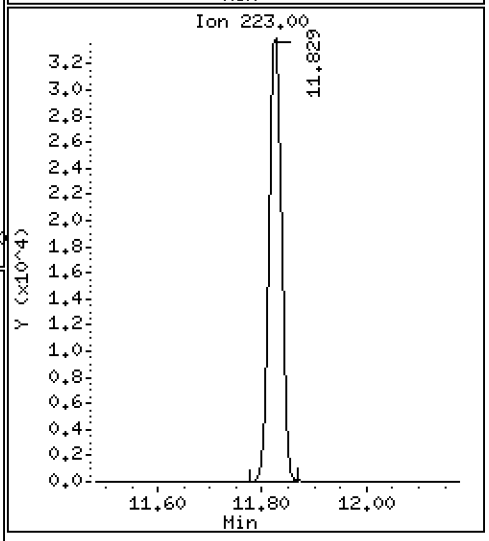
30 Hexachlorobutadiene

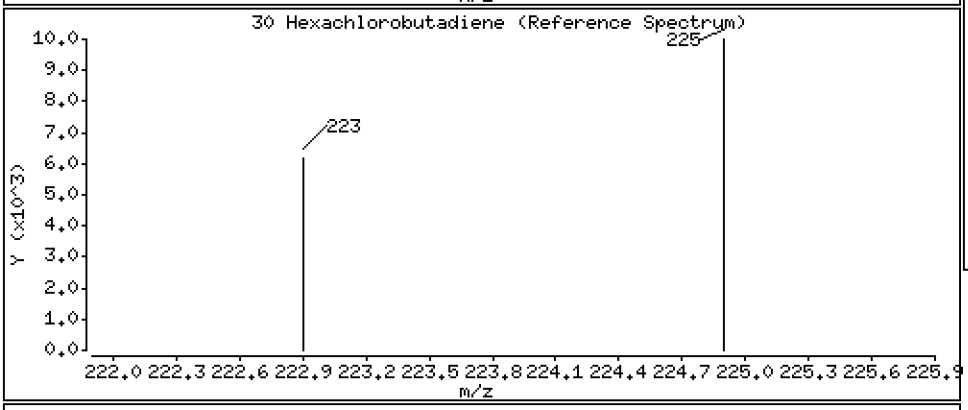
Concentration: 4.166 ug/L

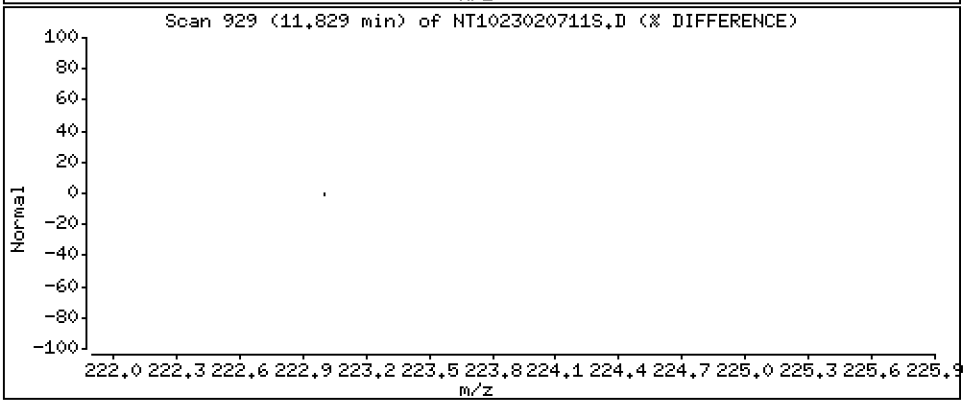












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

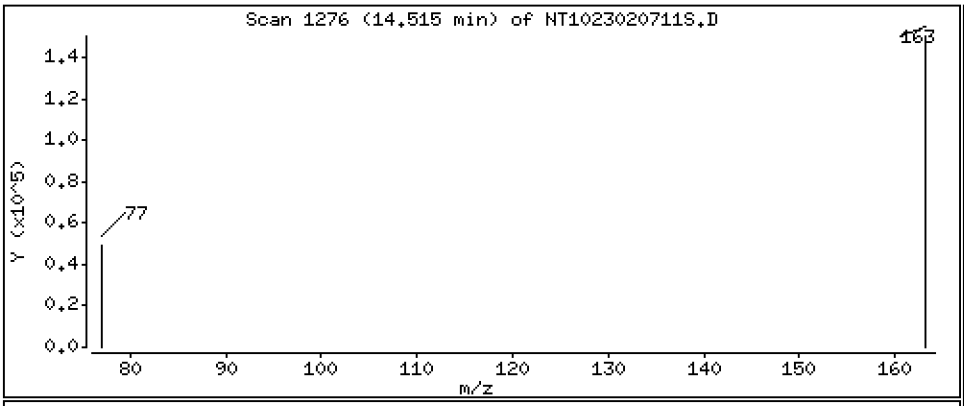
Operator: DSD

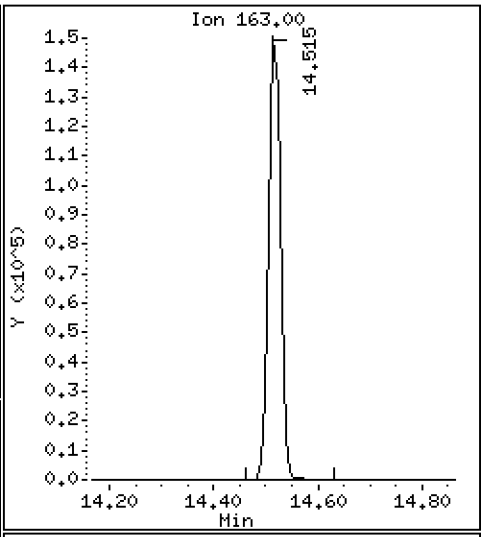
Column phase: ZB-5msi

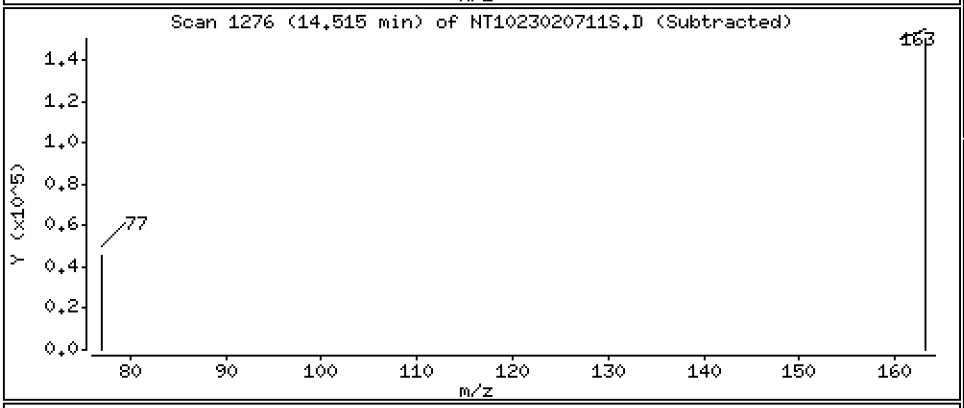
Column diameter: 0.25

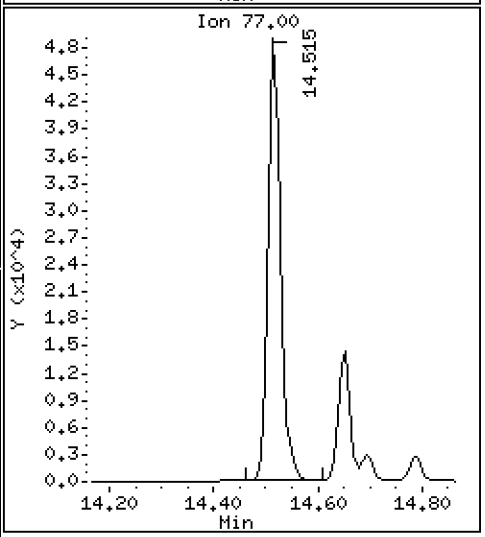
39 Dimethylphthalate

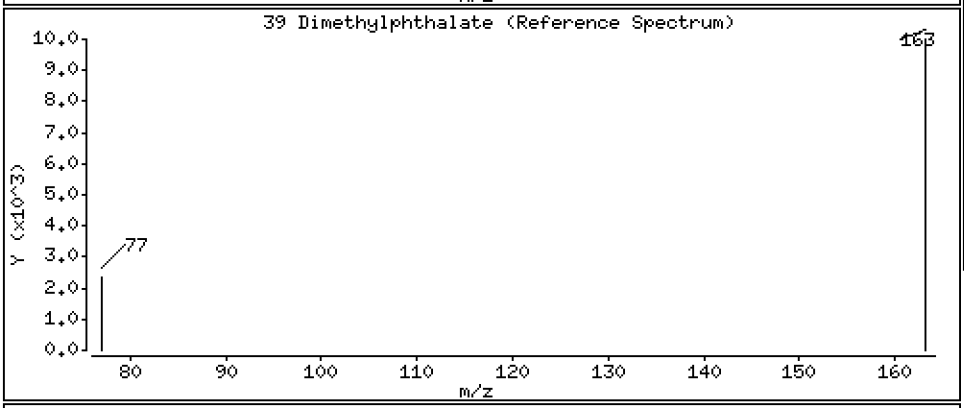
Concentration: 4.173 ug/L

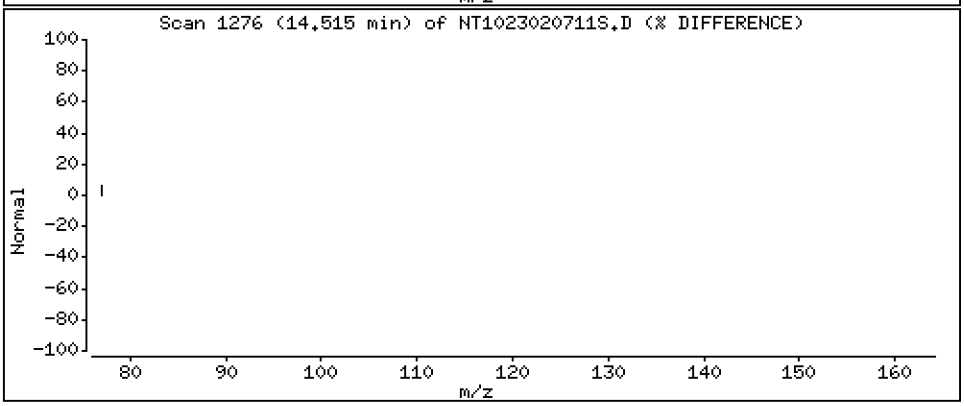












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

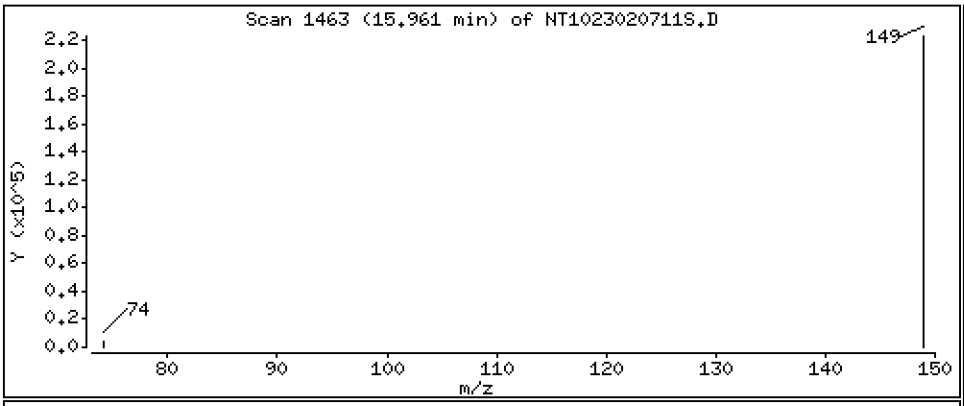
Operator: DSD

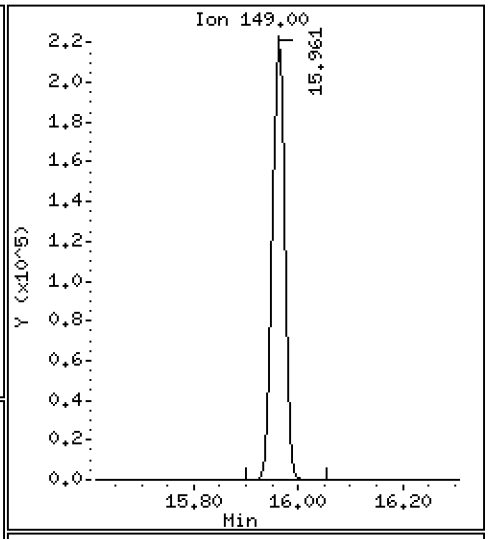
Column phase: ZB-5msi

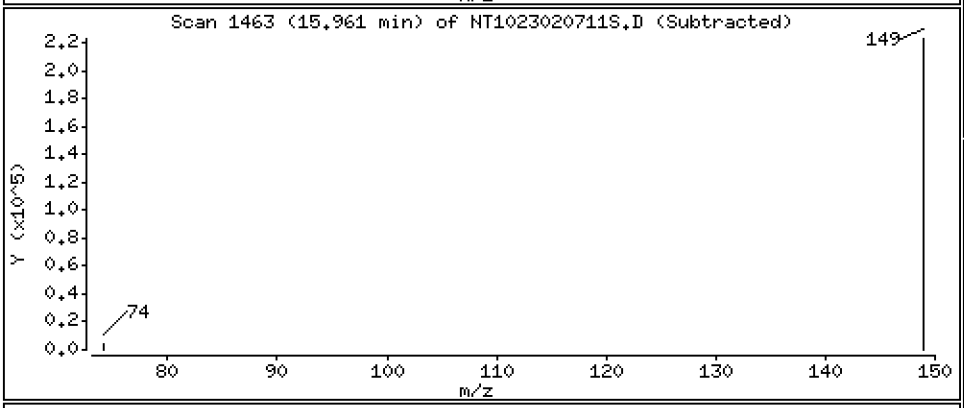
Column diameter: 0.25

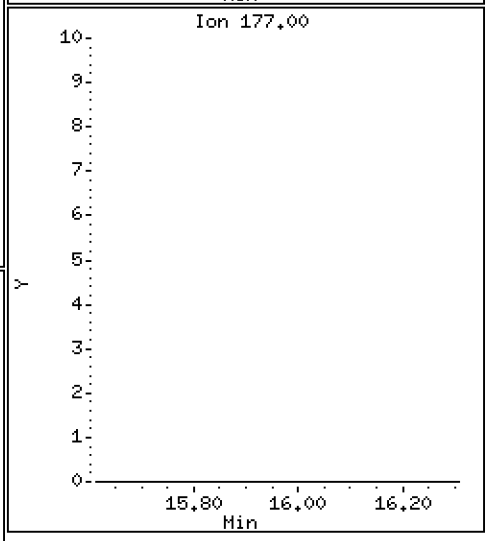
50 Diethylphthalate

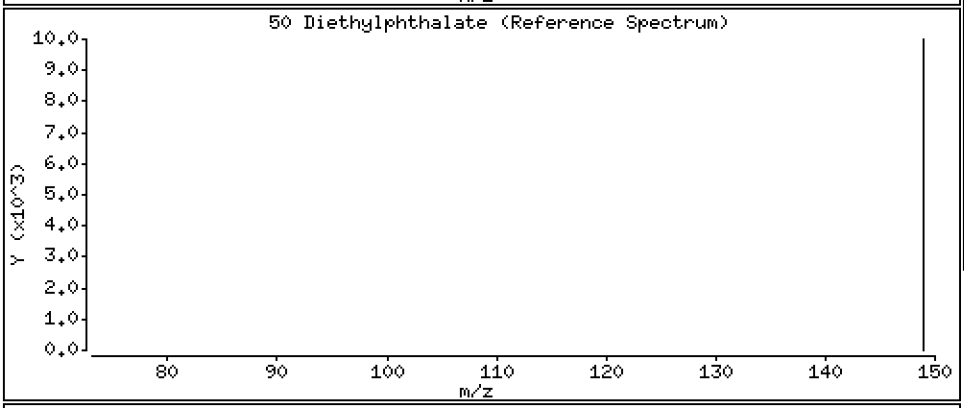
Concentration: 4.282 ug/L

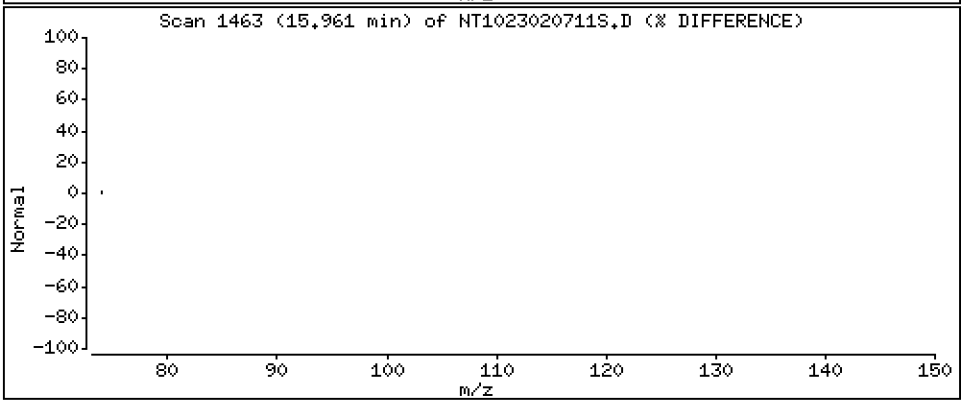












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

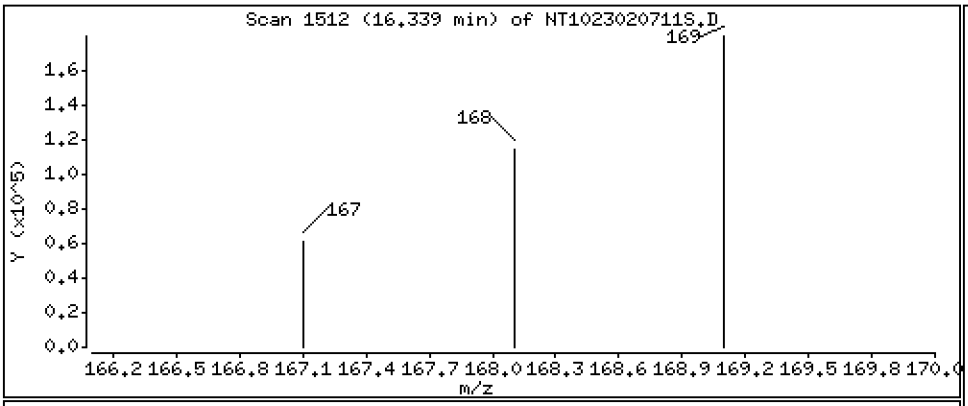
Operator: DSD

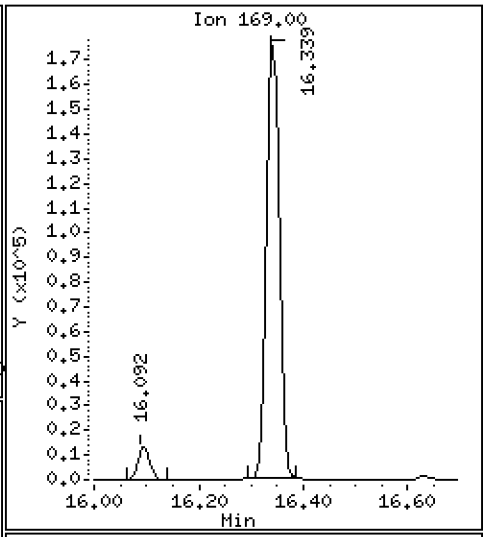
Column phase: ZB-5msi

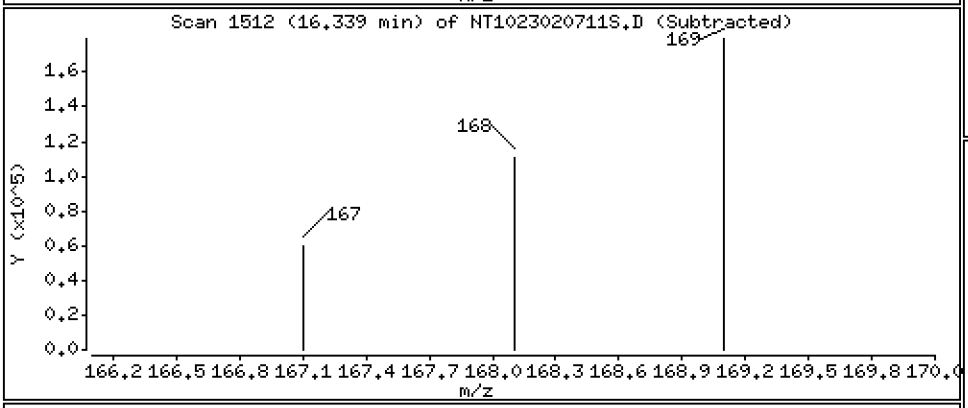
Column diameter: 0.25

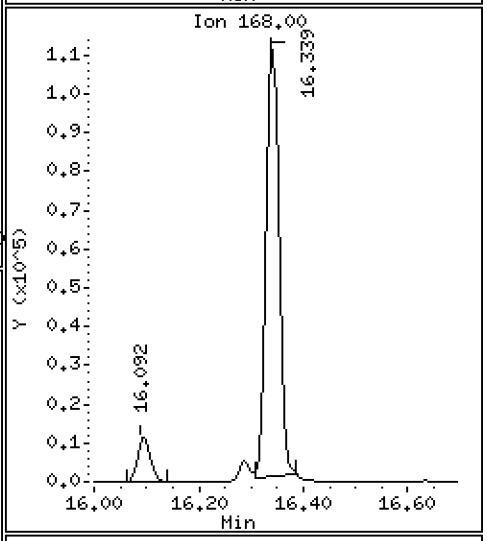
54 N-Nitrosodiphenylamine

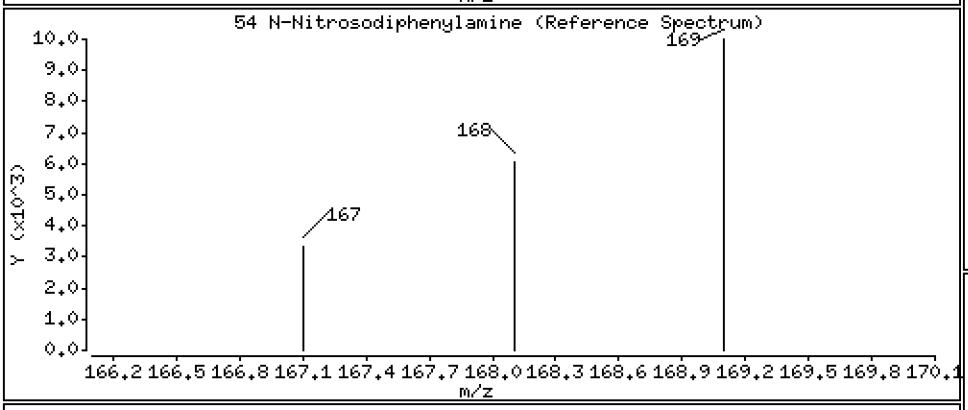
Concentration: 4.205 ug/L

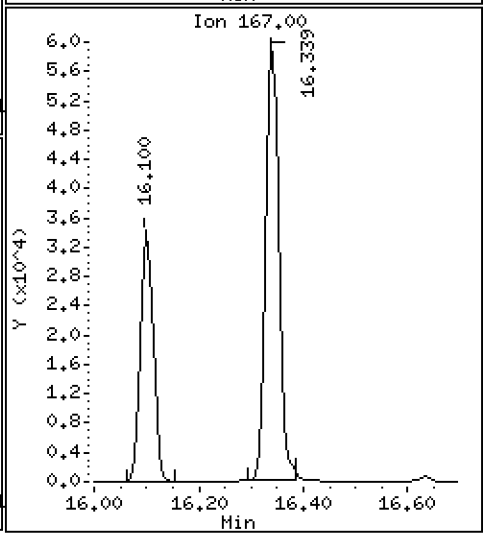


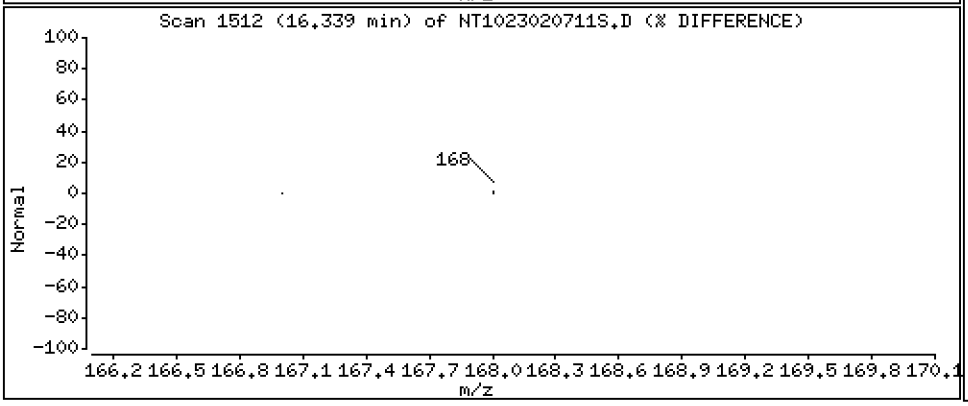












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

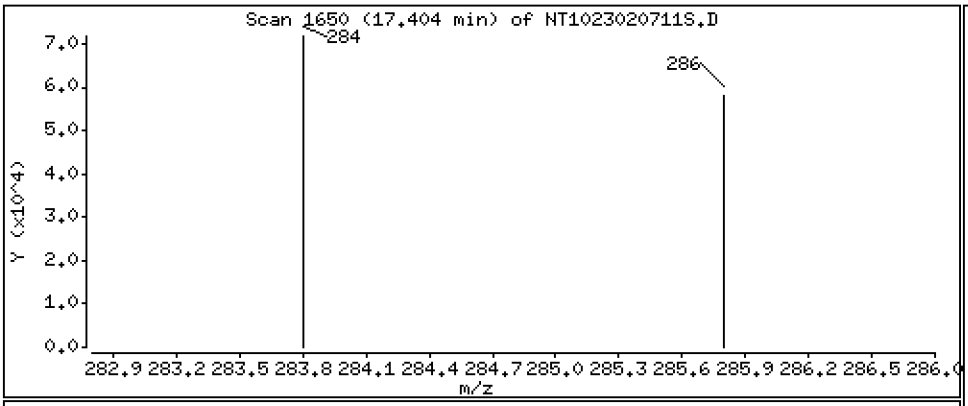
Operator: DSD

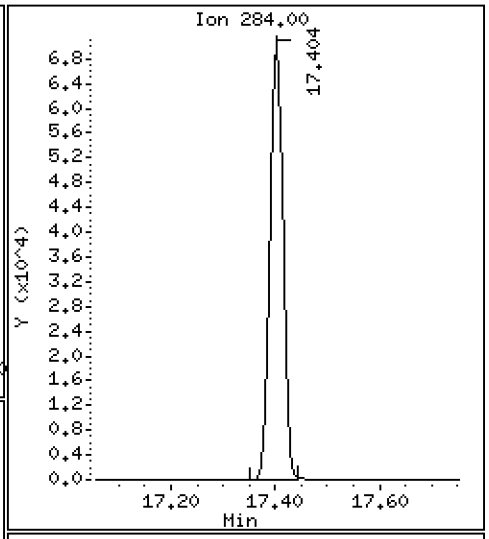
Column phase: ZB-5msi

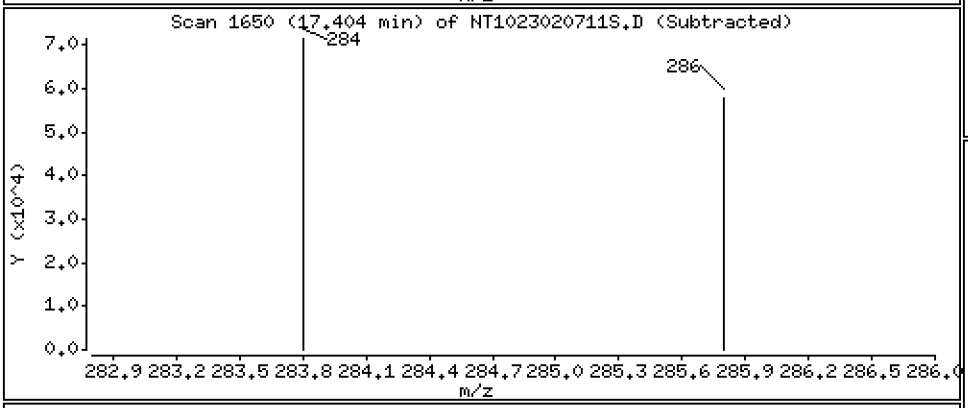
Column diameter: 0.25

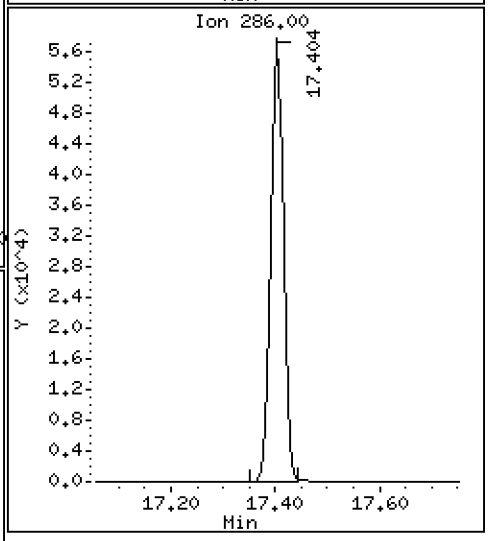
57 Hexachlorobenzene

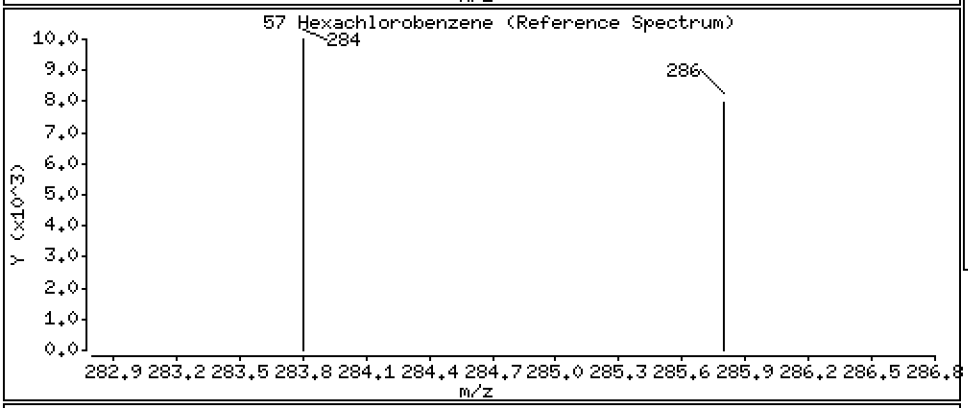
Concentration: 4.026 ug/L

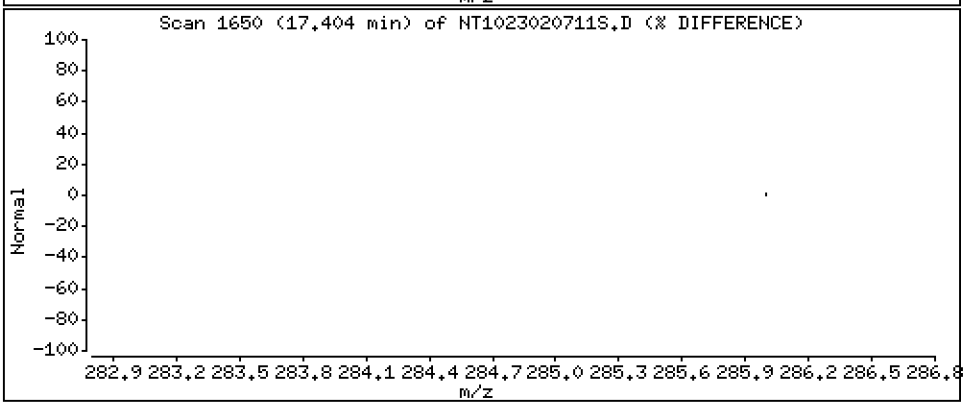












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

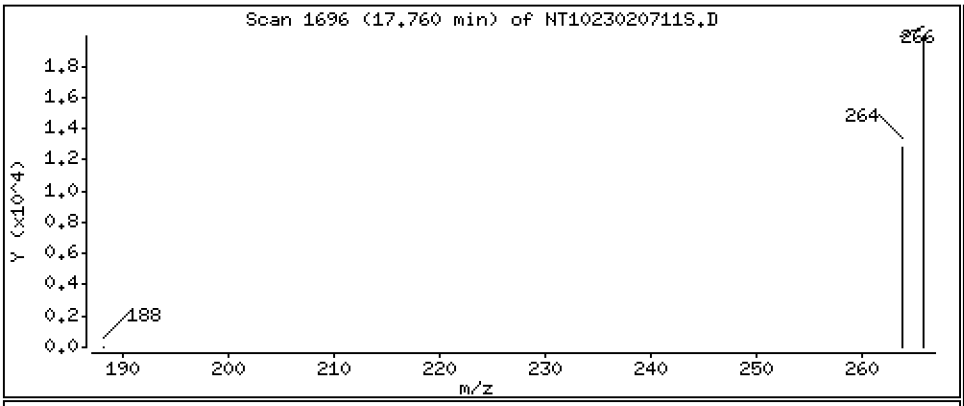
Operator: DSD

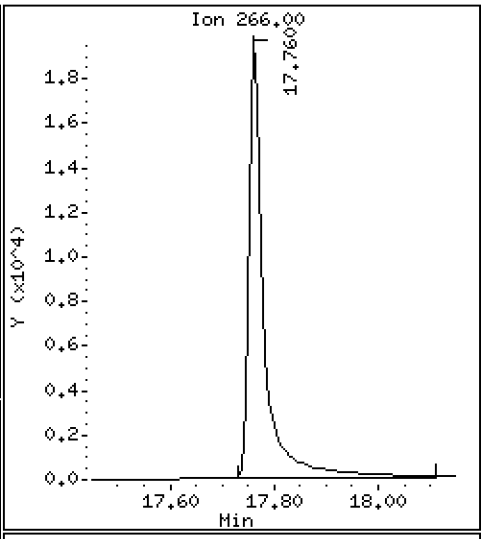
Column phase: ZB-5msi

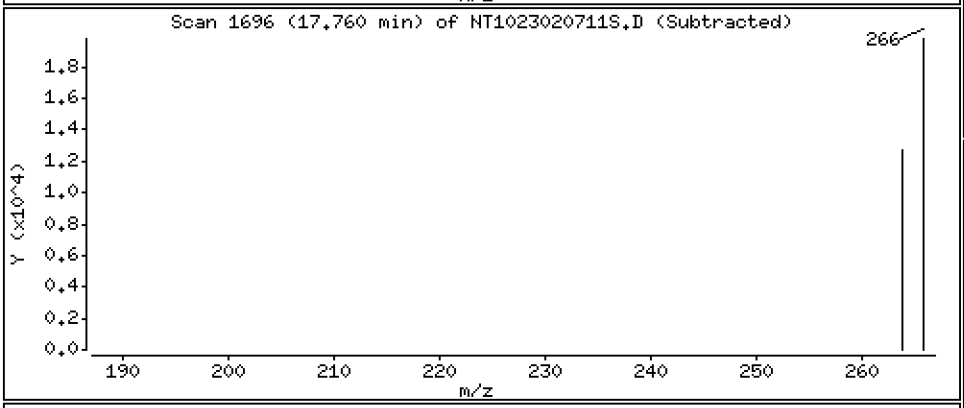
Column diameter: 0.25

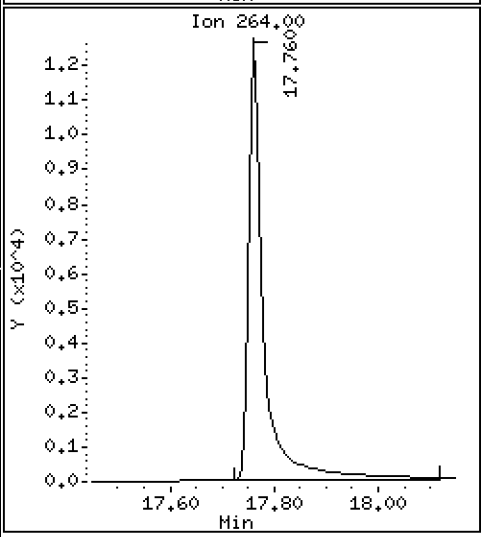
58 Pentachlorophenol

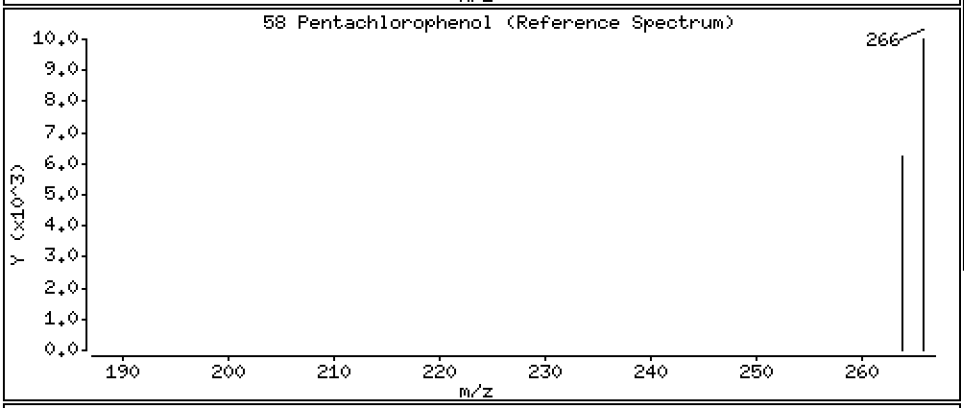
Concentration: 3.994 ug/L

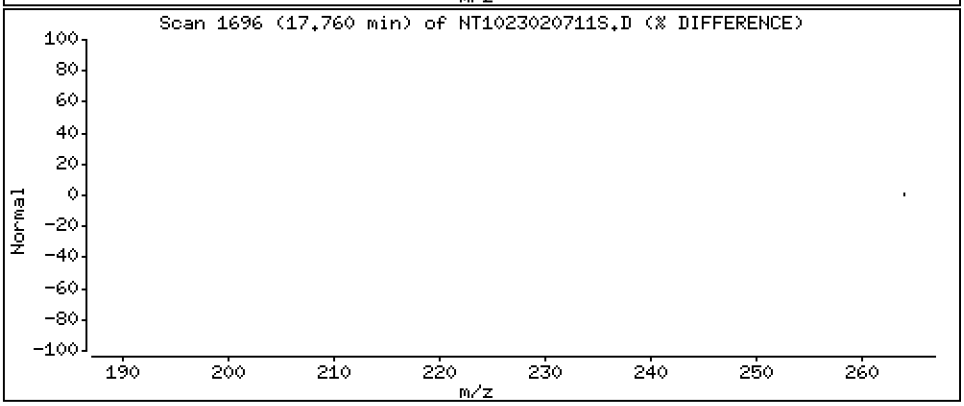












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

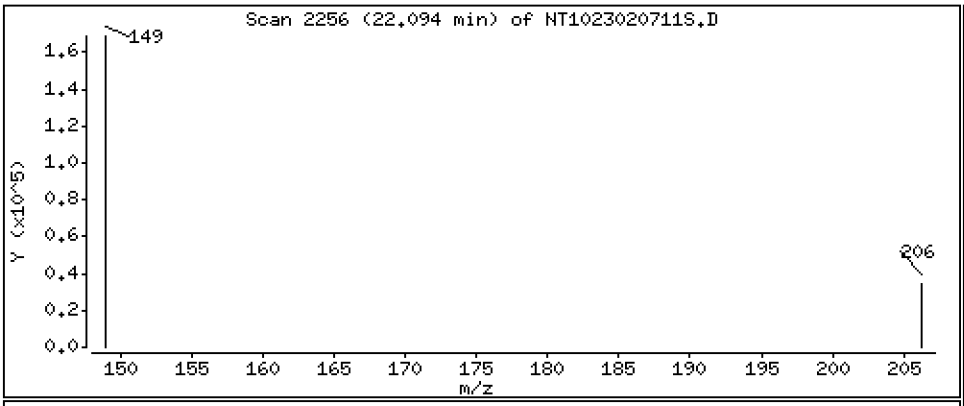
Operator: DSD

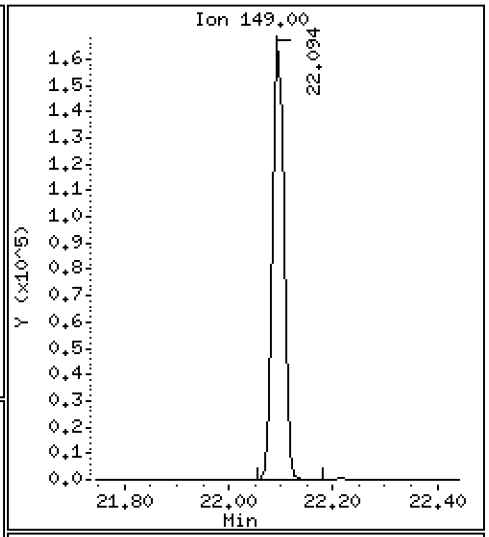
Column phase: ZB-5msi

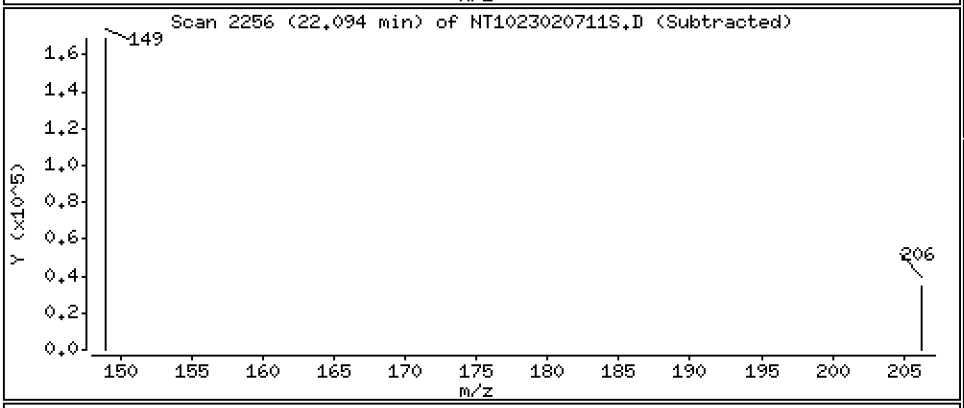
Column diameter: 0.25

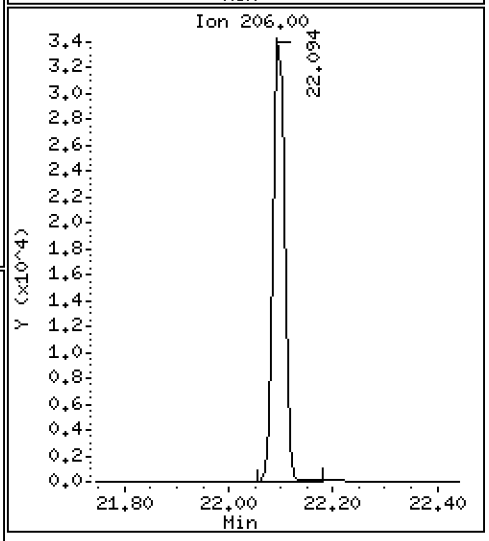
67 Butylbenzylphthalate

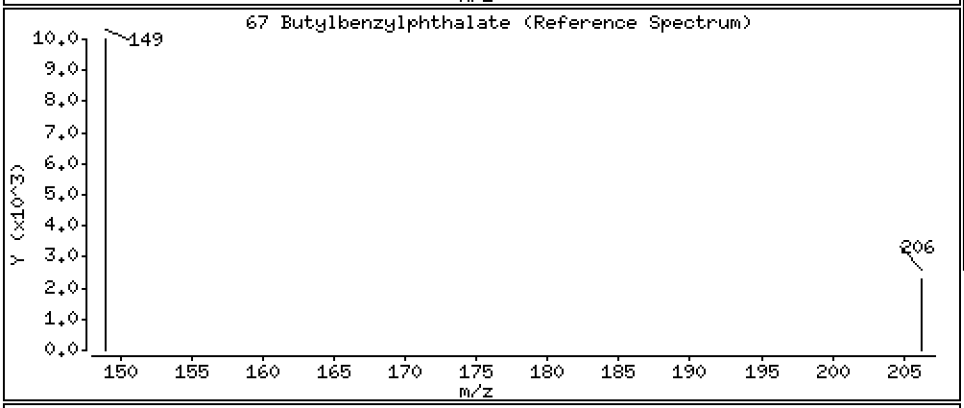
Concentration: 4.408 ug/L

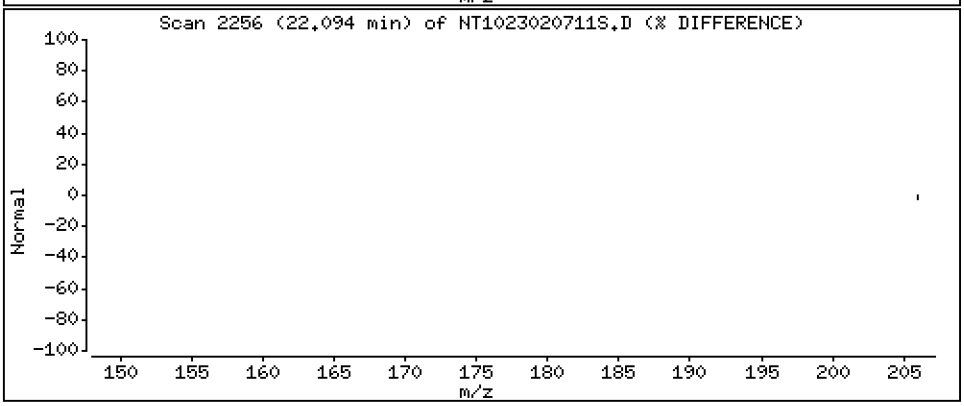












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

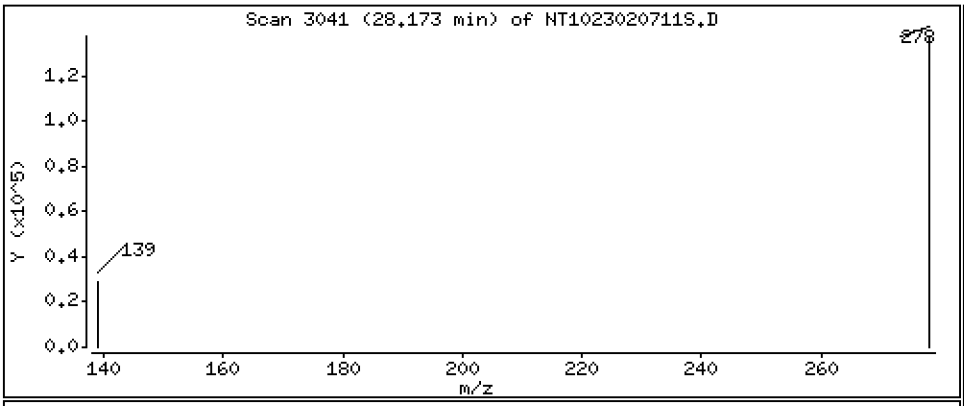
Operator: DSD

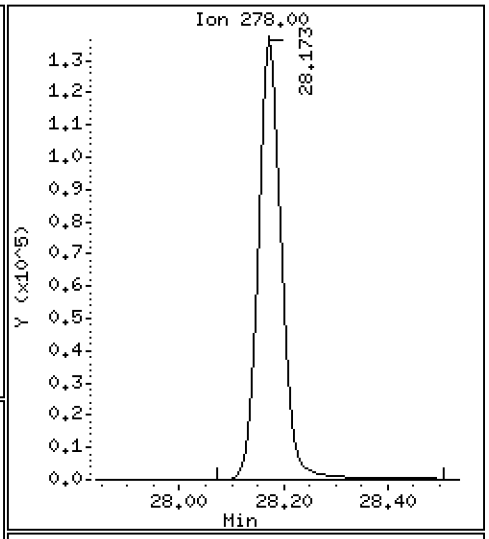
Column phase: ZB-5msi

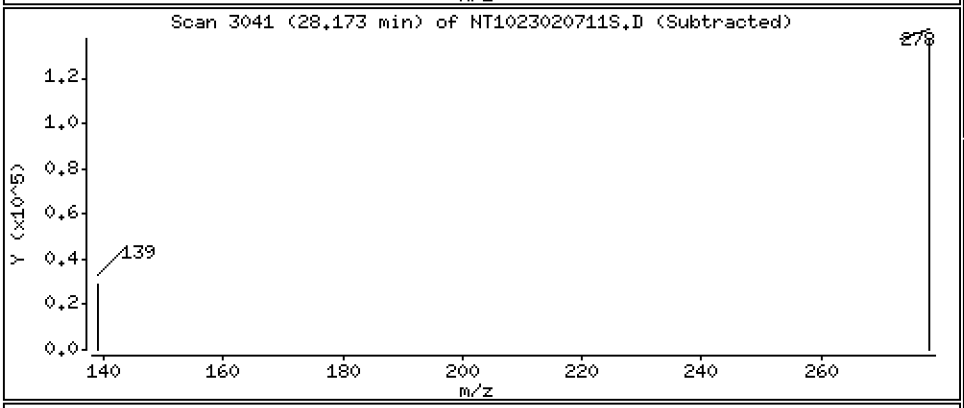
Column diameter: 0.25

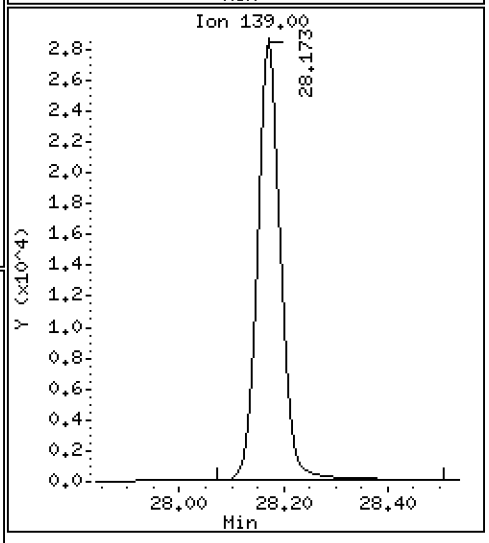
79 Dibenzo(a,h)anthracene

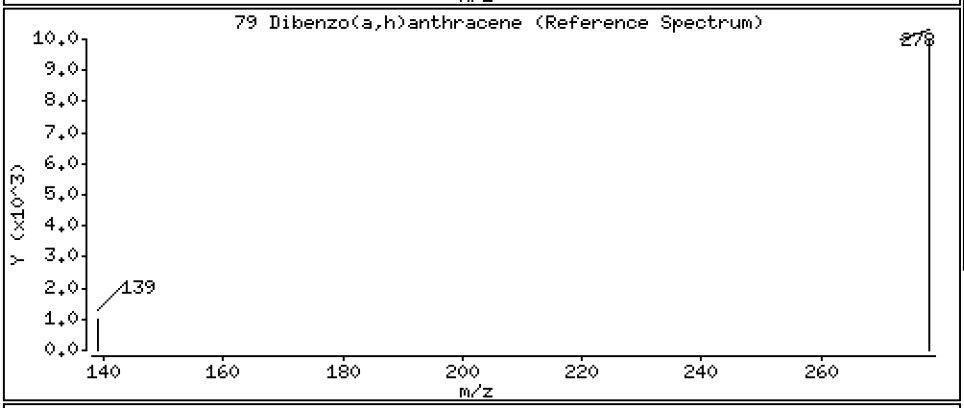
Concentration: 4.213 ug/L

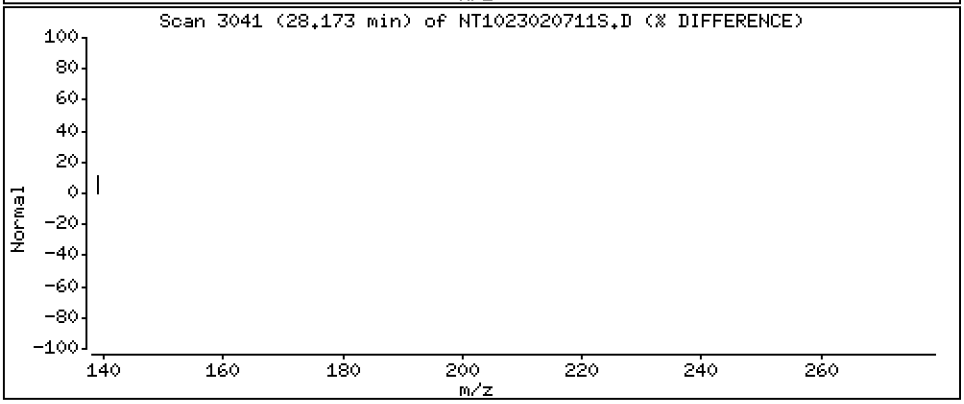












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

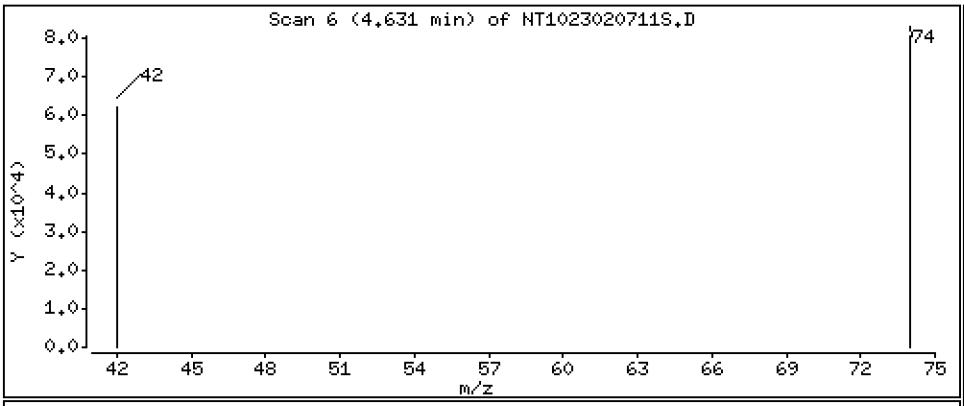
Operator: DSD

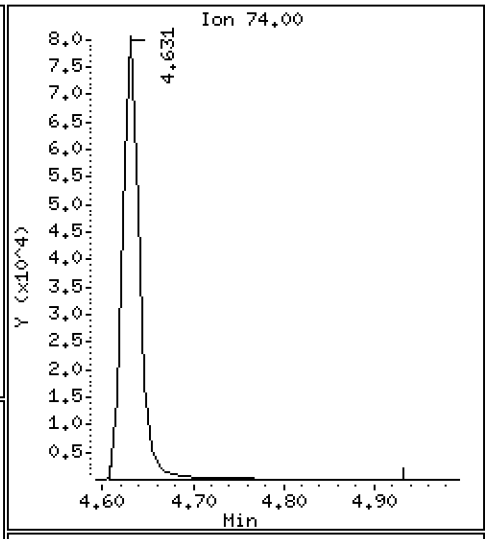
Column phase: ZB-5msi

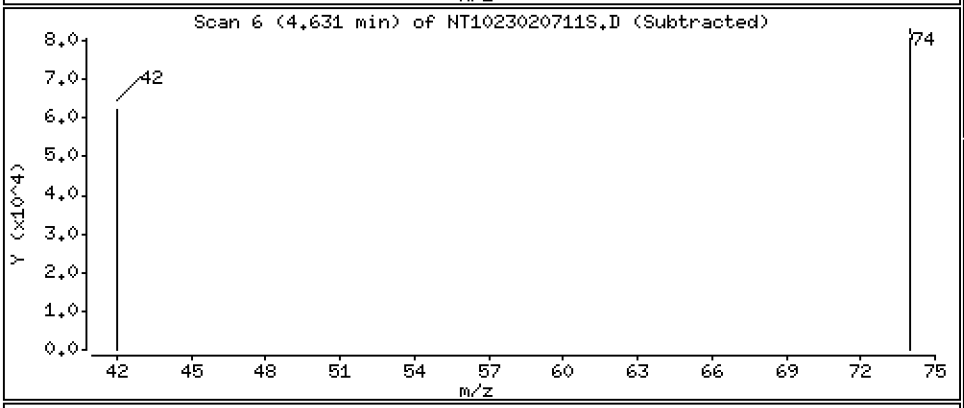
Column diameter: 0.25

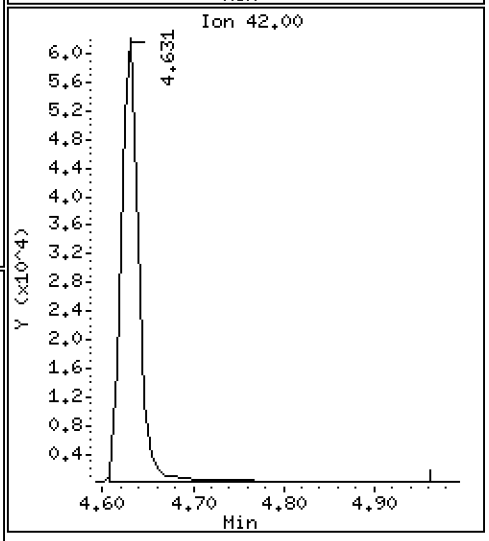
90 N-Nitrosodimethylamine

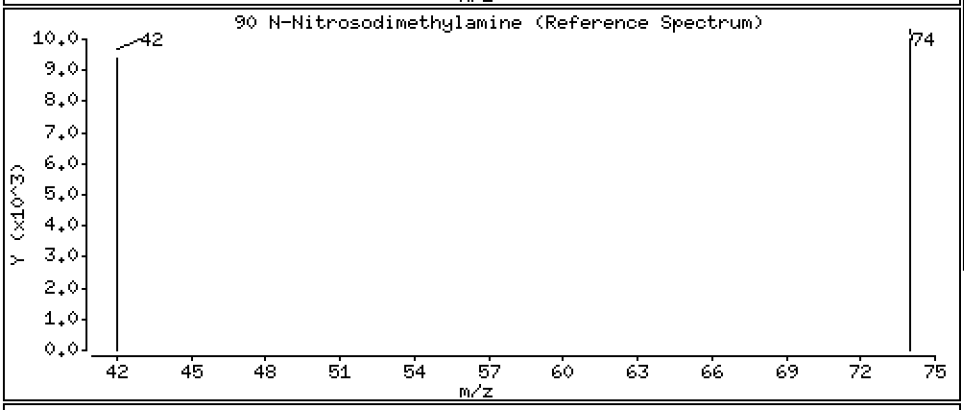
Concentration: 4.486 ug/L

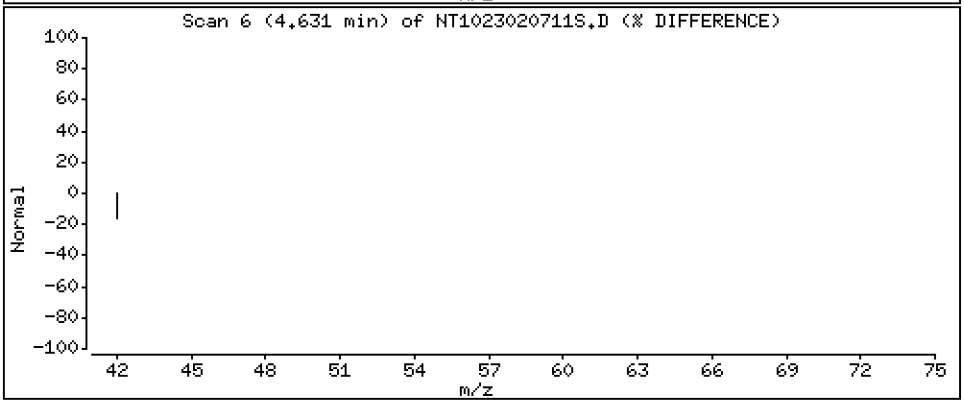












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020711S.D
Lab Smp Id: SLB0106-SCV1
Inj Date : 07-FEB-2023 18:04 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.770	6.785	(0.755)	257806	6.97332	6.973(R)
3	Phenol	94	8.362	8.369	(0.933)	232442	4.16958	4.170
7	1,3-Dichlorobenzene	146	8.903	8.903	(0.993)	208793	4.15895	4.159
* 8	1,4-Dichlorobenzene-d4	152	8.965	8.965	(1.000)	121574	4.00000	
9	1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	207977	4.23719	4.237
11	Benzyl alcohol	79	9.228	9.267	(1.029)	133450	4.90710	4.907
12	1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	201423	4.20453	4.205
13	2-Methylphenol	108	9.461	9.469	(1.055)	138888	3.64937	3.649
15	4-Methylphenol	108	9.733	9.741	(1.086)	154509	3.98044	3.980
16	N-Nitroso-di-n-propylamine	70	9.780	9.780	(1.091)	121809	4.39583	4.396
22	2,4-Dimethylphenol	107	10.754	10.763	(0.942)	134677	3.35264	3.353
24	Benzoic acid	105	10.941	11.204	(0.958)	112855	5.88397	5.884
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	147977	3.93002	3.930
* 27	Naphthalene-d8	136	11.419	11.419	(1.000)	457304	4.00000	
30	Hexachlorobutadiene	225	11.829	11.829	(1.036)	85644	4.16602	4.166
39	Dimethylphthalate	163	14.514	14.514	(0.967)	225259	4.17269	4.173
* 42	Acenaphthene-d10	162	15.010	15.002	(1.000)	231625	4.00000	
50	Diethylphthalate	149	15.960	15.961	(1.063)	348168	4.28244	4.282
54	N-Nitrosodiphenylamine	169	16.339	16.346	(0.907)	286918	4.20471	4.205
57	Hexachlorobenzene	284	17.404	17.404	(0.966)	116927	4.02634	4.026

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.760	17.799	(0.986)	41808	3.99436	3.994
*	59 Phenanthrene-d10	188	18.015	18.015	(1.000)	412906	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.917)	336208	4.23932	4.239(R)
	67 Butylbenzylphthalate	149	22.093	22.094	(0.958)	236283	4.40766	4.408
*	69 Chrysene-d12	240	23.069	23.061	(1.000)	357298	4.00000	
*	77 Perylene-d12	264	25.616	25.616	(1.000)	361150	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.173	28.188	(1.100)	426459	4.21339	4.213
	90 N-Nitrosodimethylamine	74	4.631	4.646	(0.517)	108685	4.48609	4.486

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020711S.D
Lab Smp Id: SLB0106-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	121574	-5.61
27 Naphthalene-d8	469043	234522	938086	457304	-2.50
42 Acenaphthene-d10	233225	116613	466450	231625	-0.69
59 Phenanthrene-d10	433858	216929	867716	412906	-4.83
69 Chrysene-d12	361809	180905	723618	357298	-1.25
77 Perylene-d12	380407	190204	760814	361150	-5.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.97	0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.01	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.00
69 Chrysene-d12	23.06	22.56	23.56	23.07	0.03
77 Perylene-d12	25.62	25.12	26.12	25.62	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020711S.D

Lab ID: SLB0106-SCV1
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 18:04

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.958	0.000	0.9581	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00019
Laboratory ID: SLB0106-SCV1
Sequence: SLB0106
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
1,4-Dichlorobenzene	5.0000	4.2	-15.3	20.00
1,2-Dichlorobenzene	5.0000	4.2	-15.9	20.00
Benzyl Alcohol	5.0000	4.9	-1.9	20.00
Benzoic acid	10.000	5.9	-41.2 *	20.00
2,4-Dimethylphenol	5.0000	3.4	-32.9 *	20.00
1,2,4-Trichlorobenzene	5.0000	3.9	-21.4 *	20.00
N-Nitrosodiphenylamine	5.0000	4.2	-15.9	20.00
Pentachlorophenol	5.0000	4.0	-20.1 *	20.00
2-Fluorophenol	7.5000	6.97	-7.0	
p-Terphenyl-d14	5.0000	4.24	-15.2	

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Page 1

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

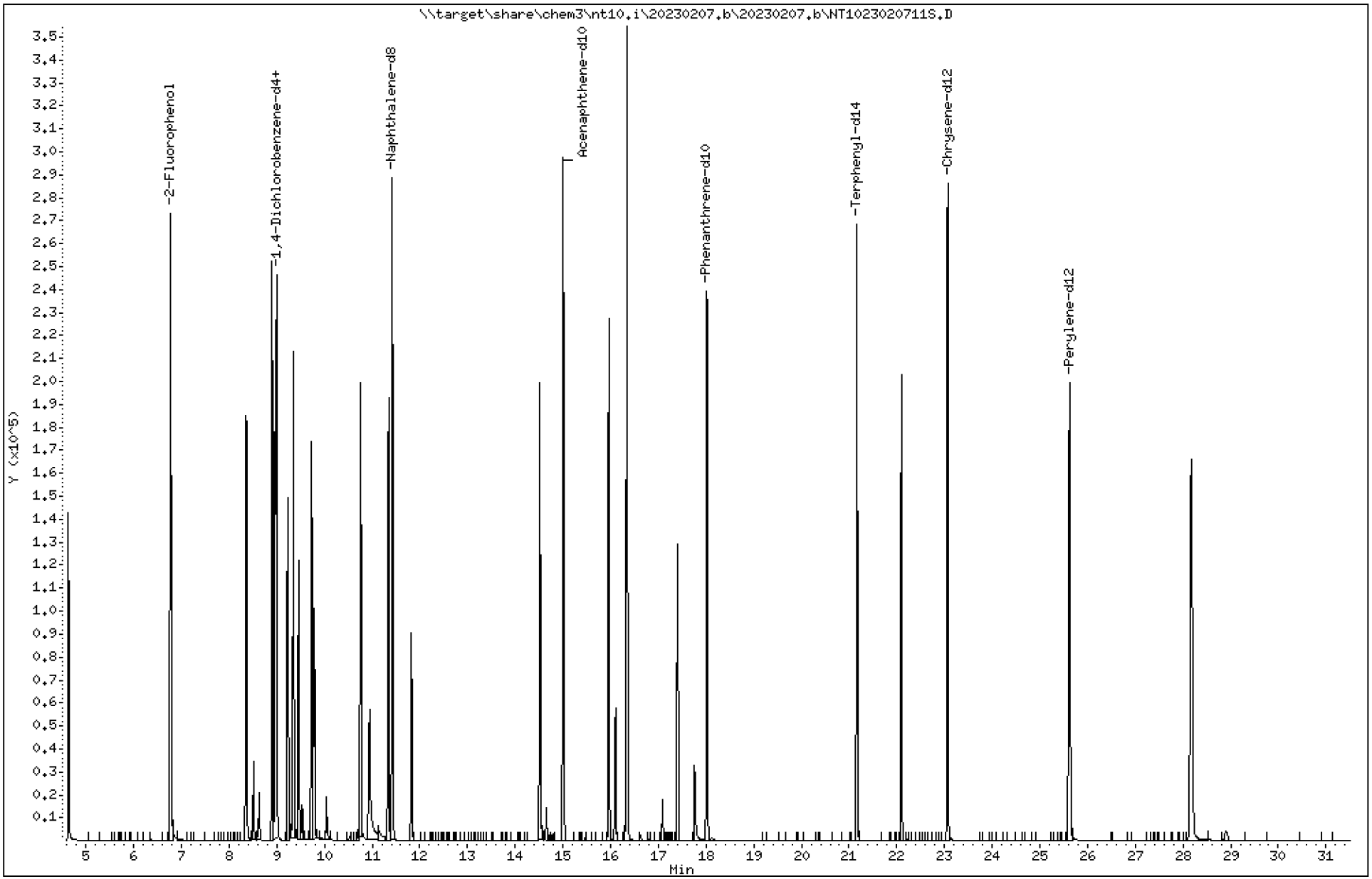
Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

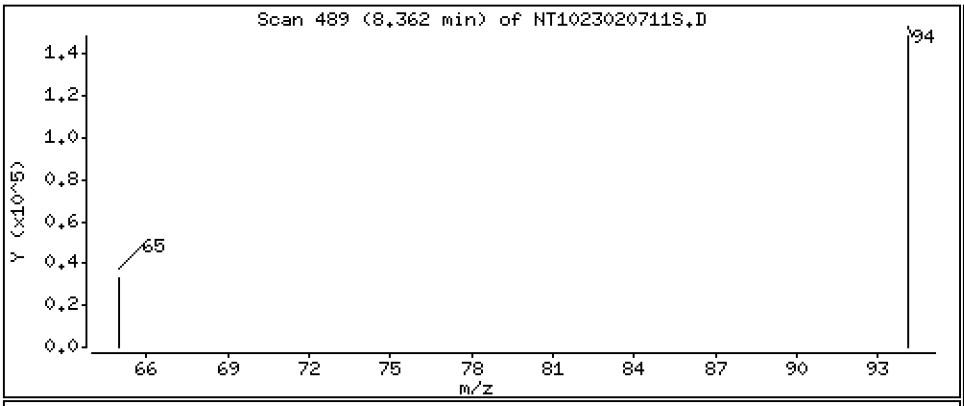
Operator: DSD

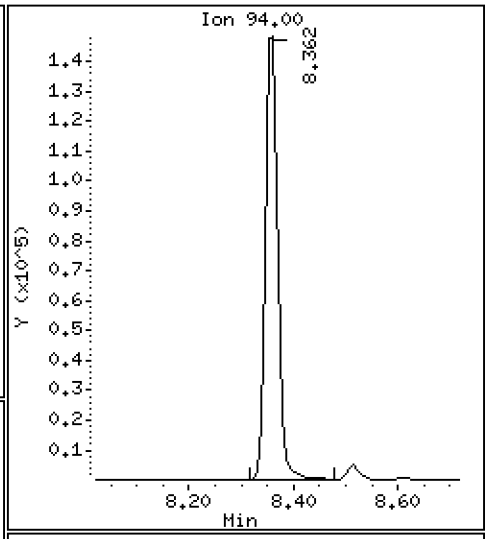
Column phase: ZB-5msi

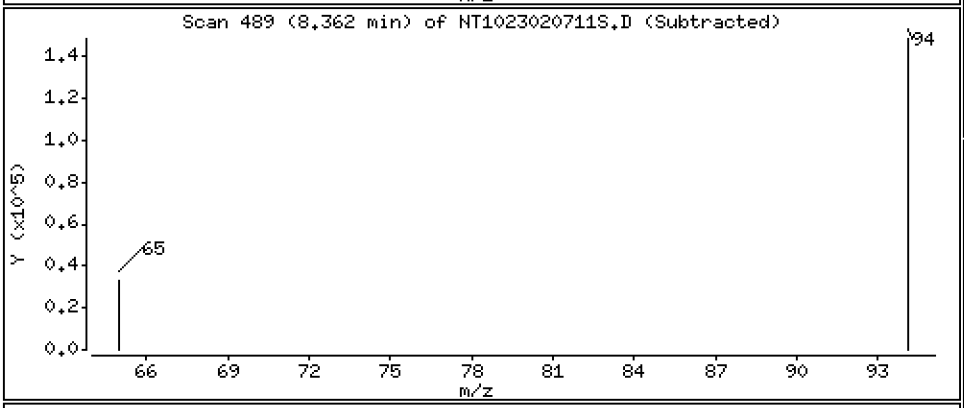
Column diameter: 0.25

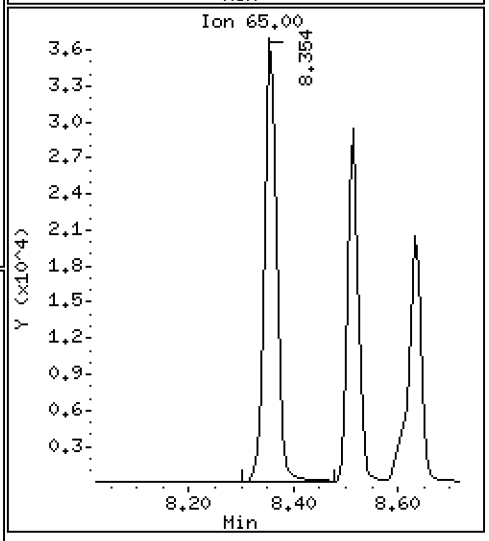
3 Phenol

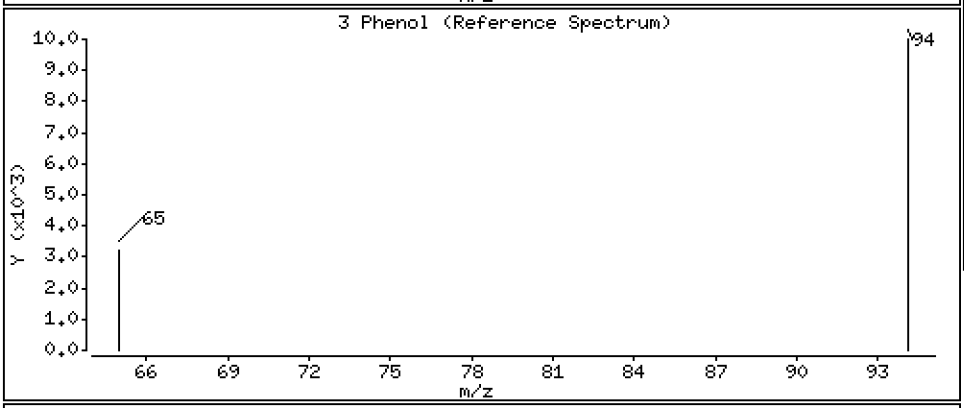
Concentration: 4.170 ug/L

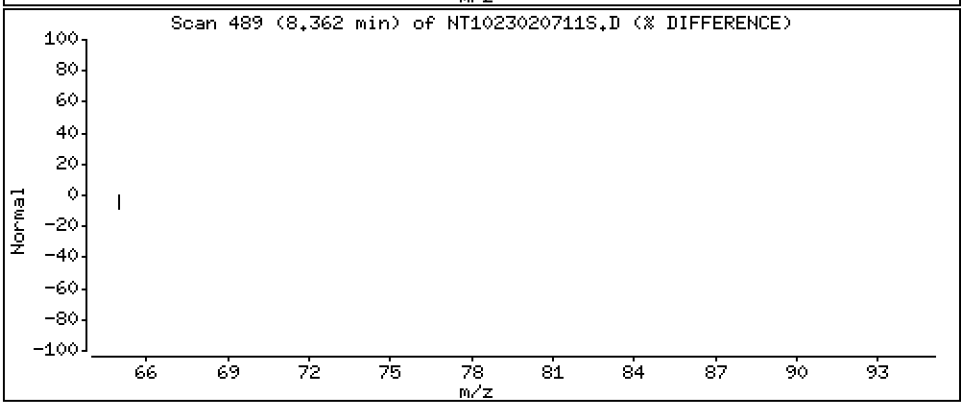












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

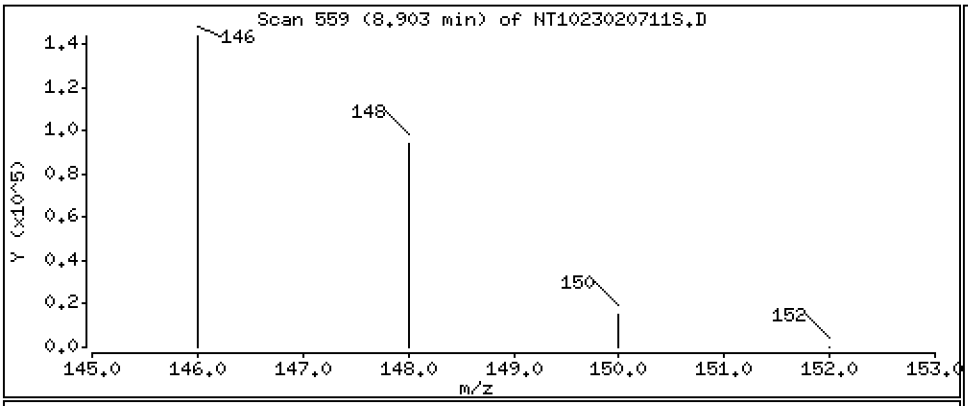
Operator: DSD

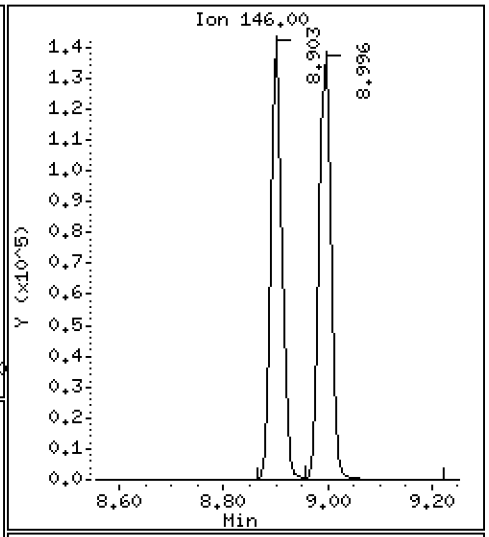
Column phase: ZB-5msi

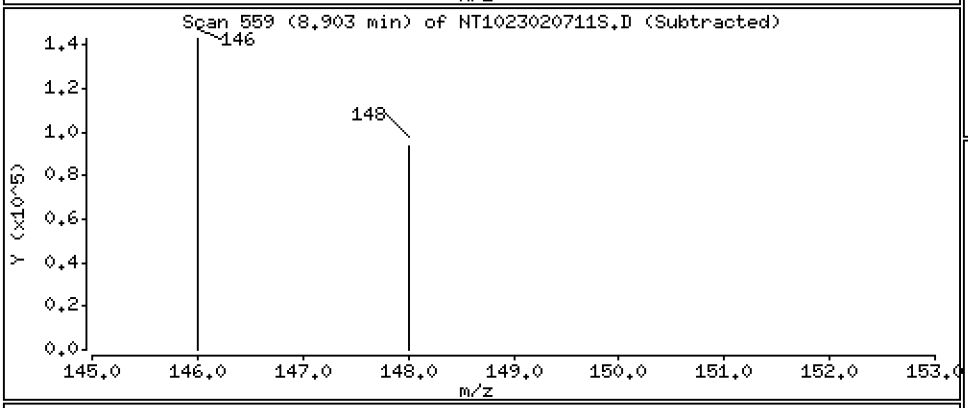
Column diameter: 0.25

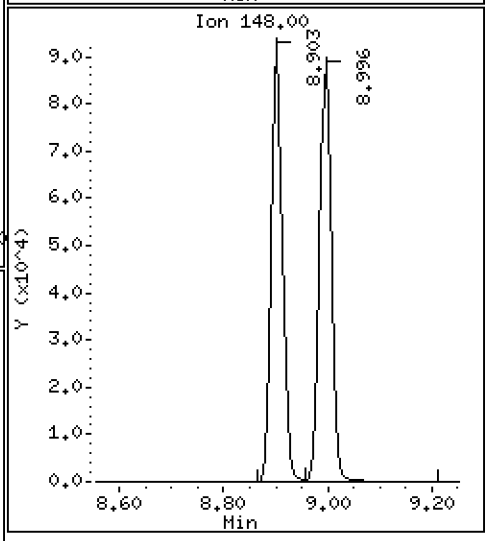
7 1,3-Dichlorobenzene

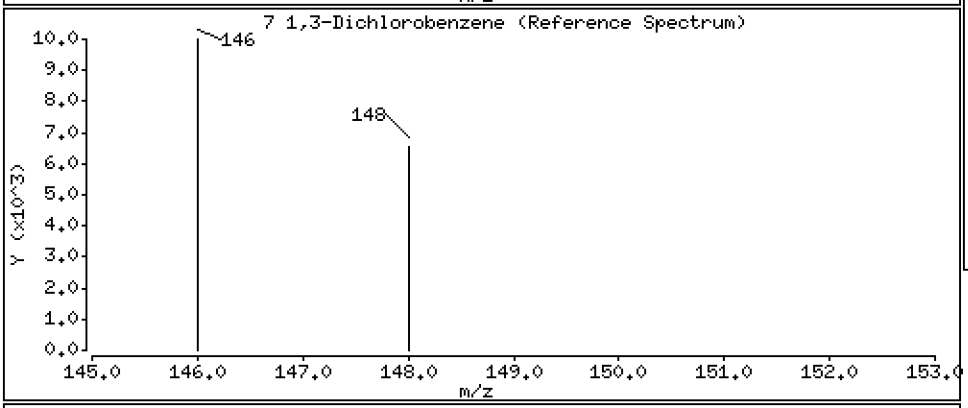
Concentration: 4.159 ug/L

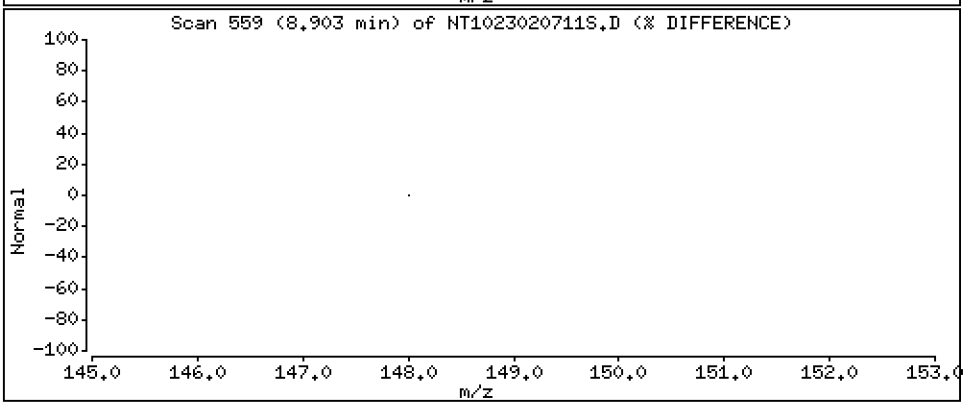












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

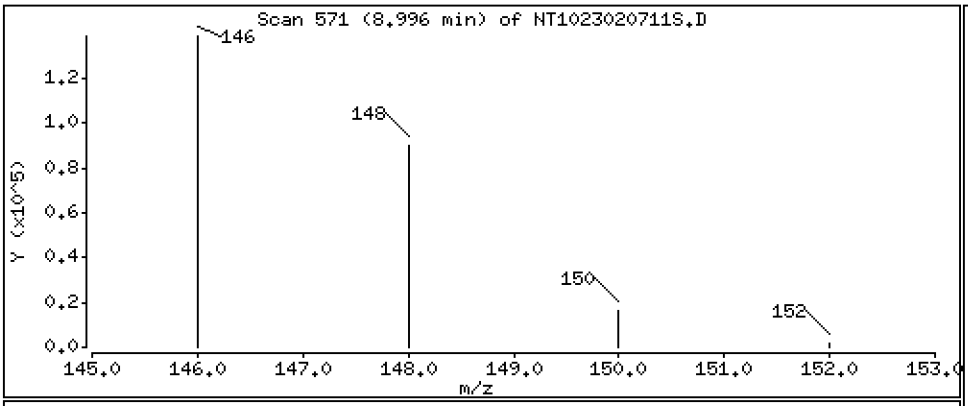
Operator: DSD

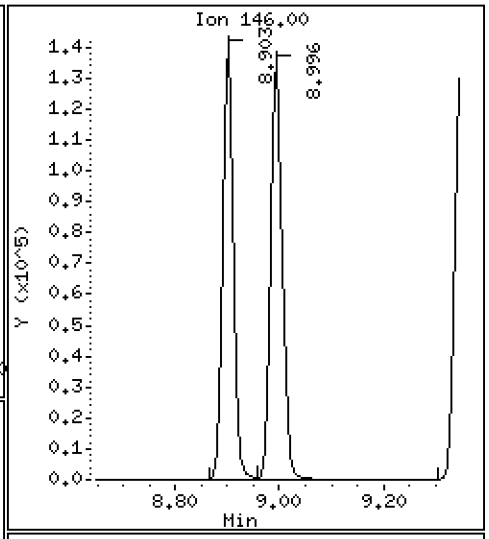
Column phase: ZB-5msi

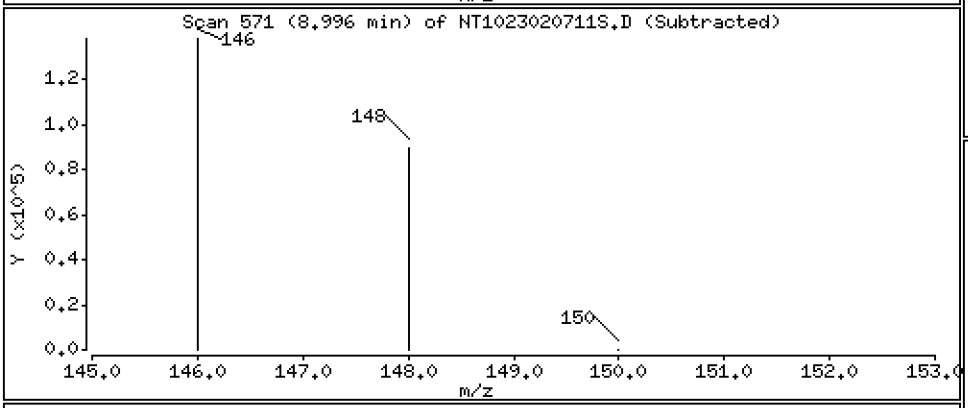
Column diameter: 0.25

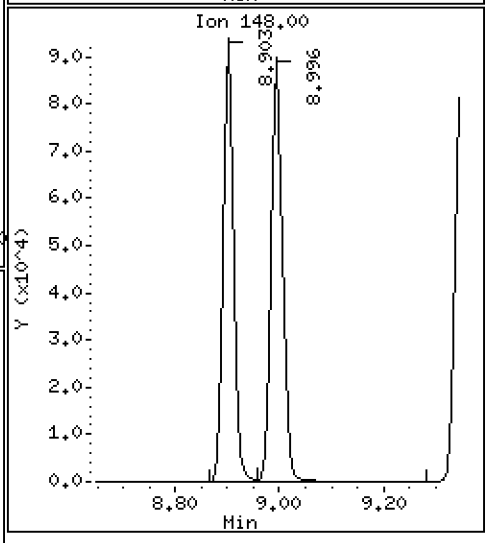
9 1,4-Dichlorobenzene

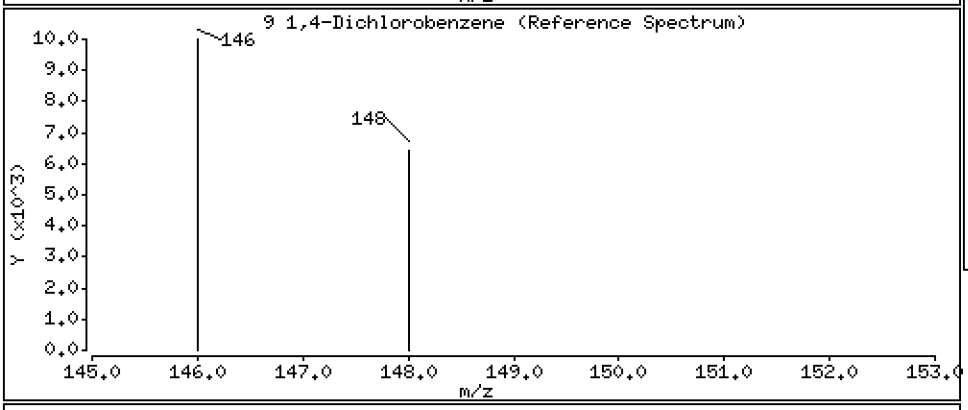
Concentration: 4.237 ug/L

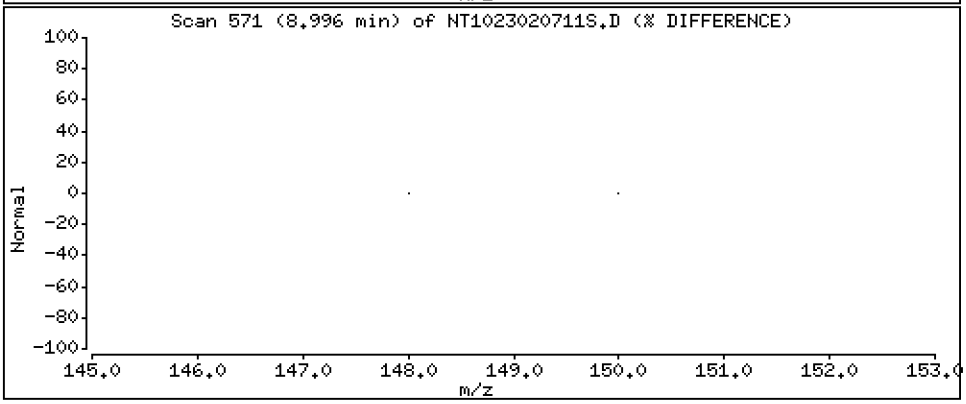












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

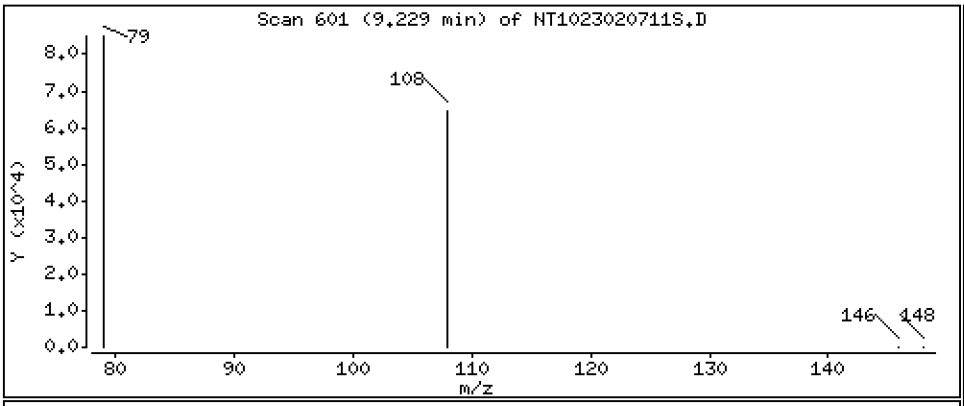
Operator: DSD

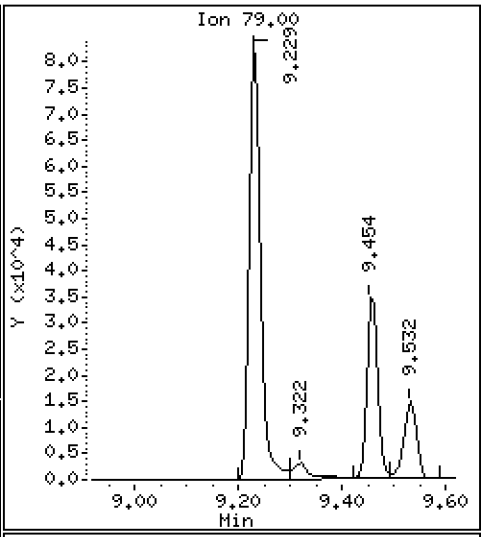
Column phase: ZB-5msi

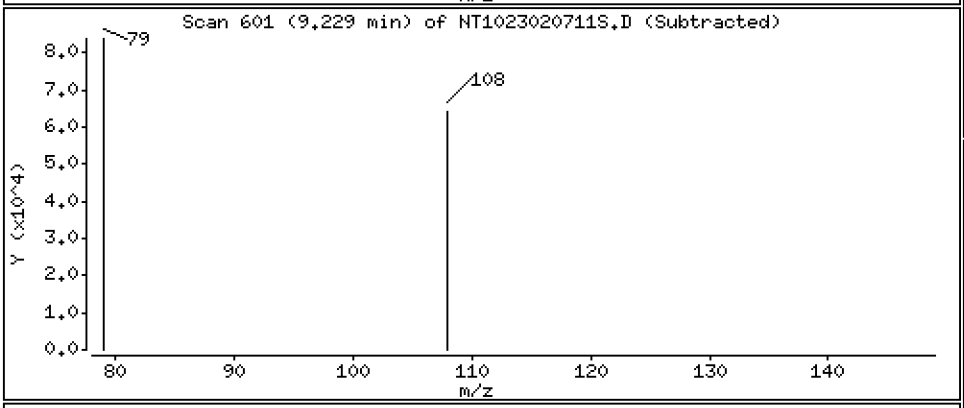
Column diameter: 0.25

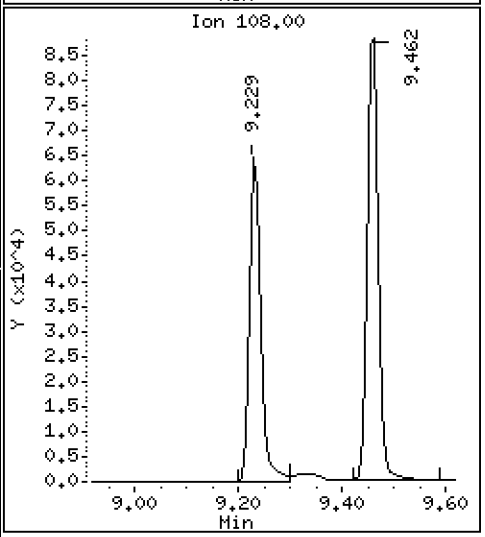
11 Benzyl alcohol

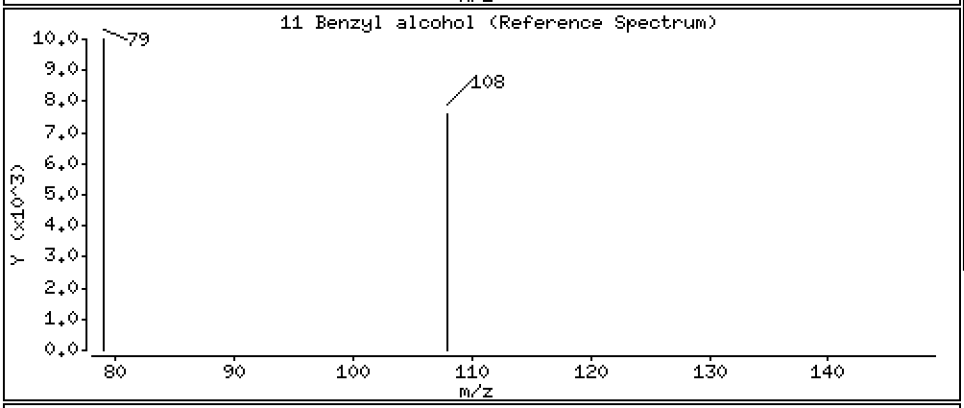
Concentration: 4.907 ug/L

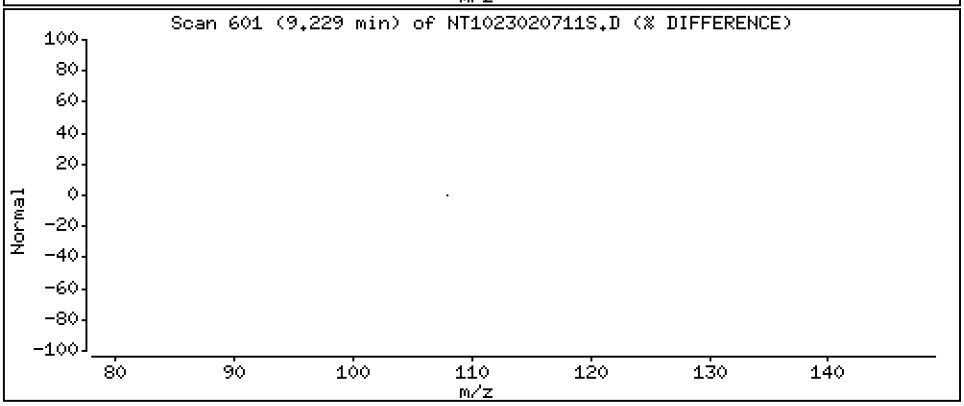












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

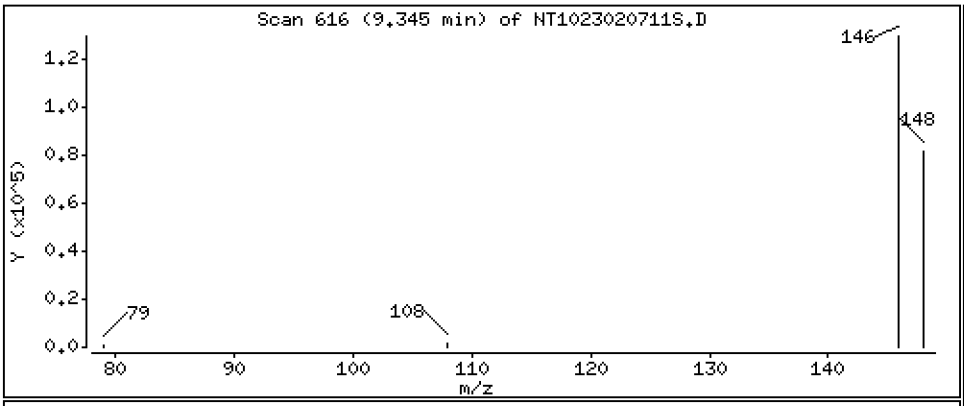
Operator: DSD

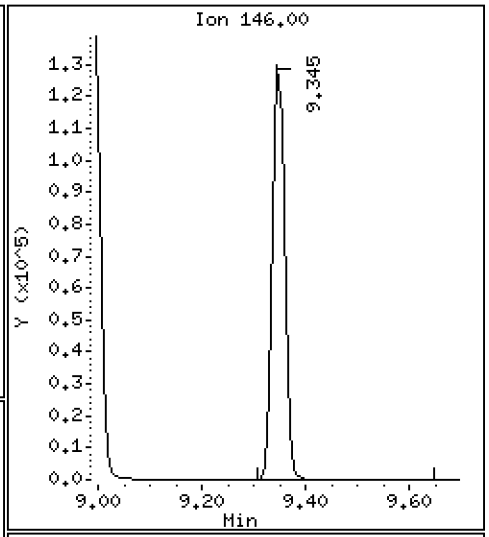
Column phase: ZB-5msi

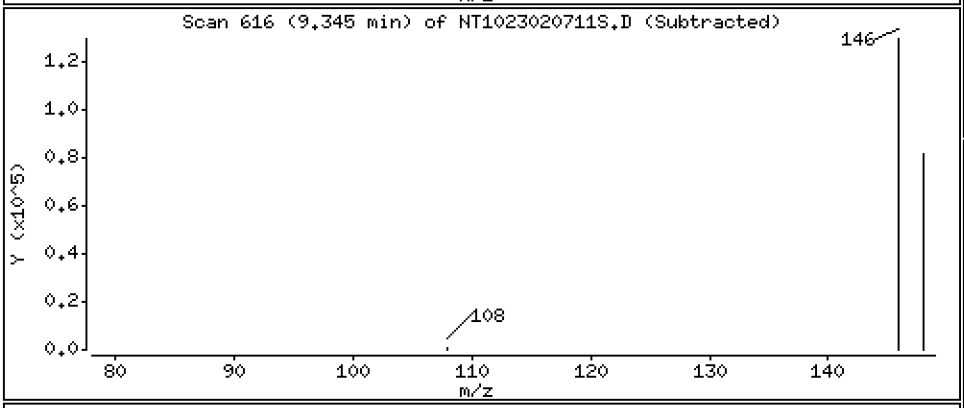
Column diameter: 0.25

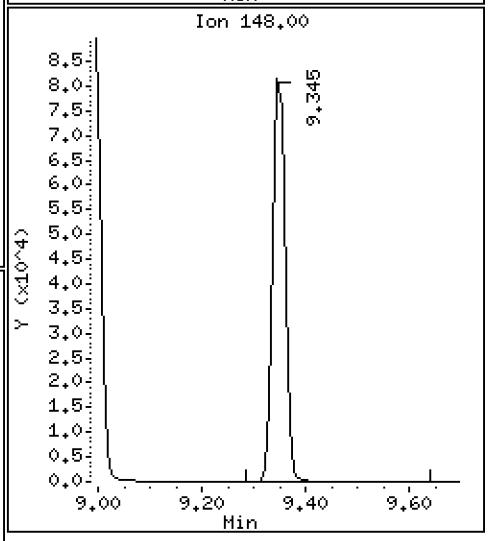
12 1,2-Dichlorobenzene

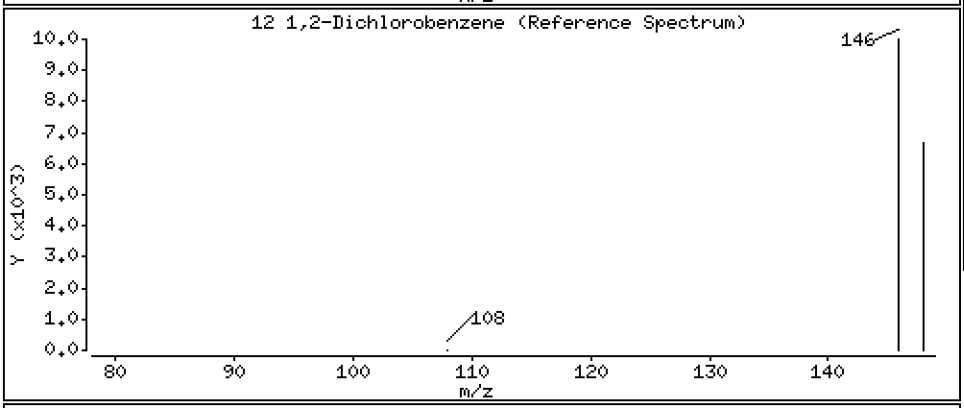
Concentration: 4.205 ug/L

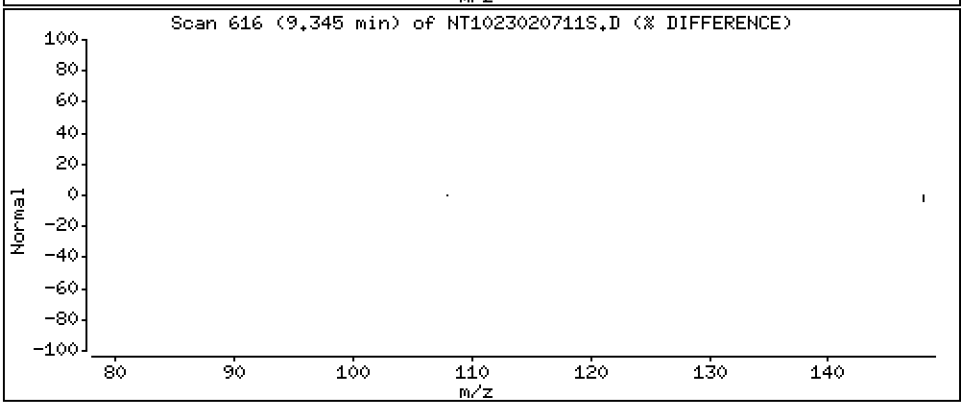












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

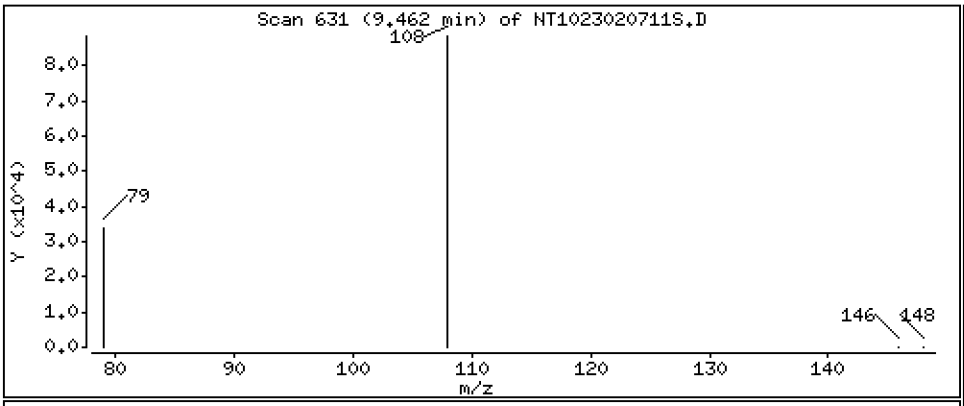
Operator: DSD

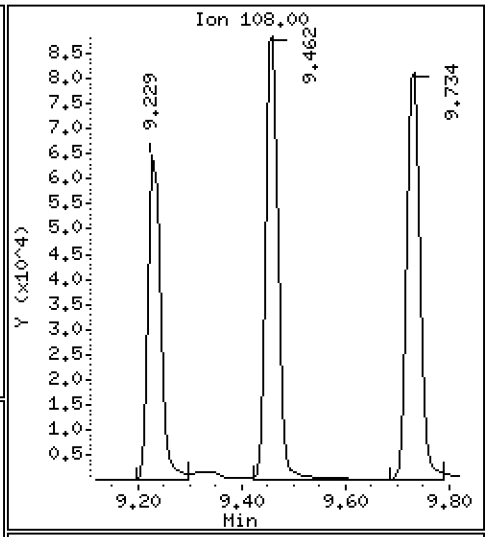
Column phase: ZB-5msi

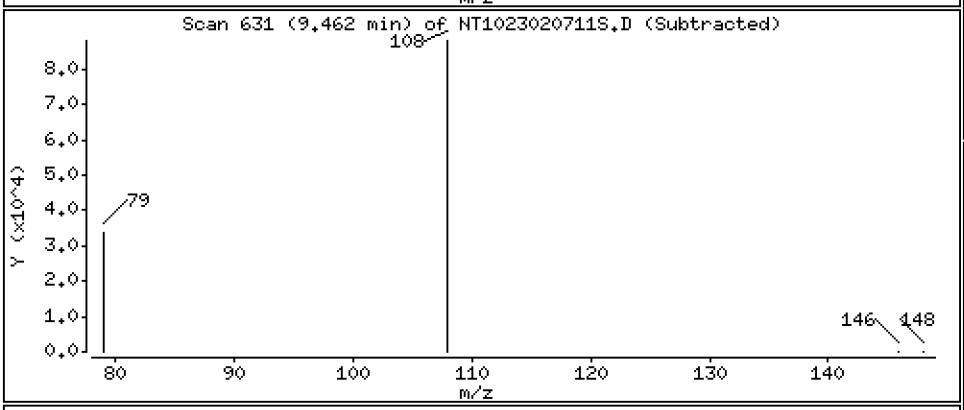
Column diameter: 0.25

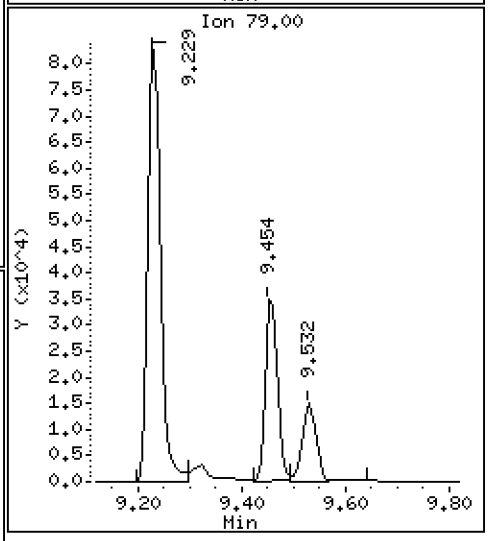
13 2-Methylphenol

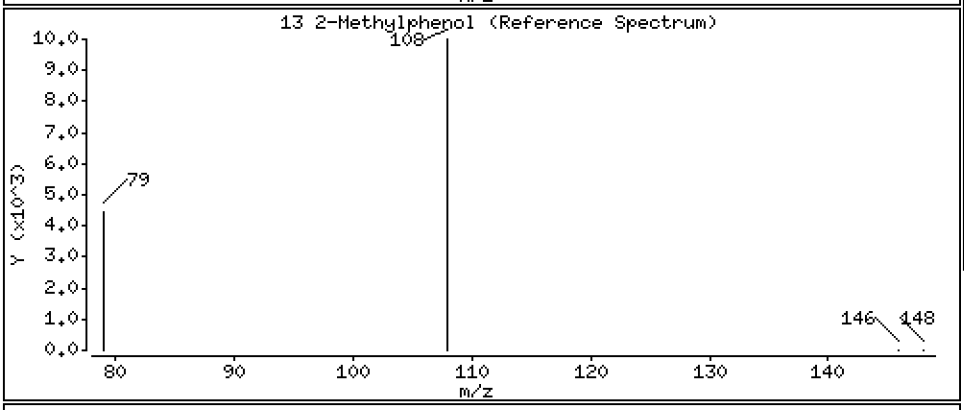
Concentration: 3.649 ug/L

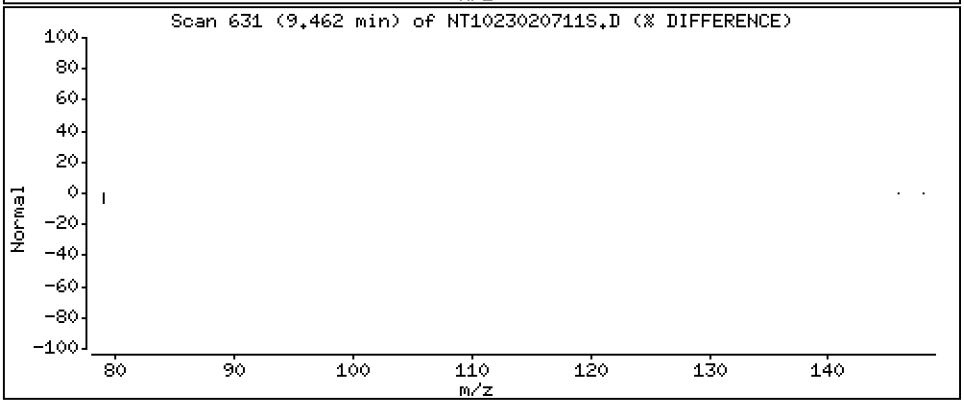












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020711S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

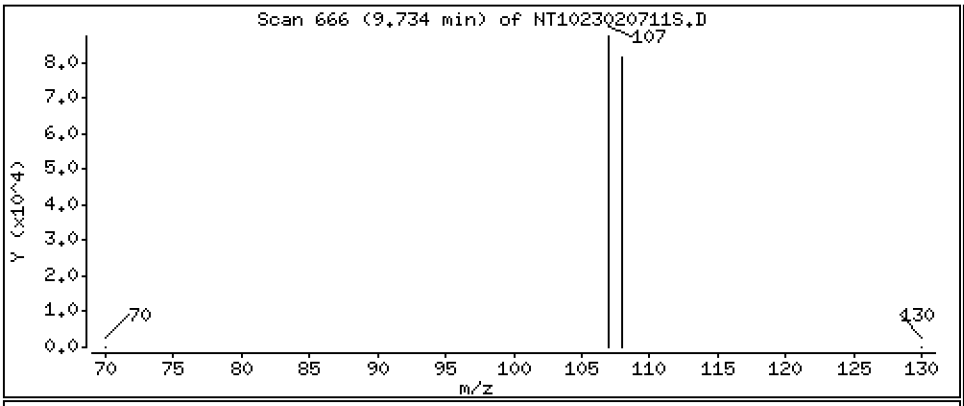
Operator: DSD

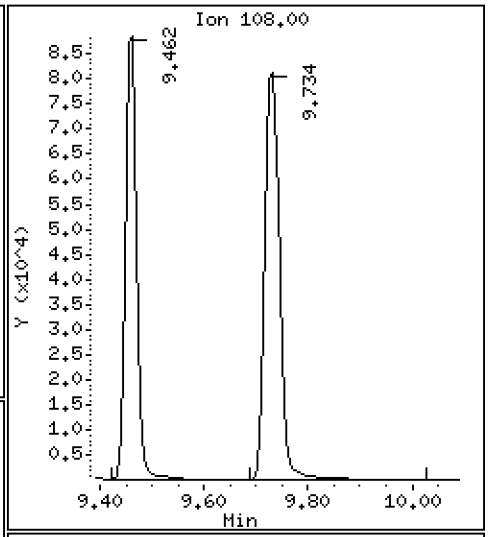
Column phase: ZB-5msi

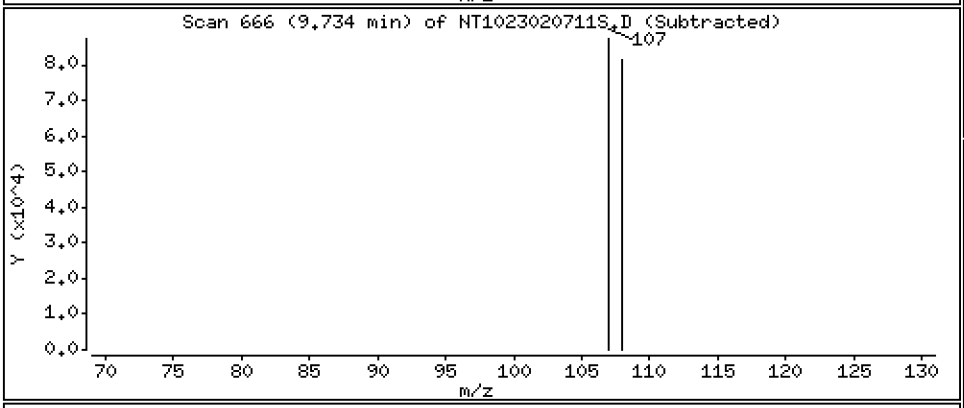
Column diameter: 0.25

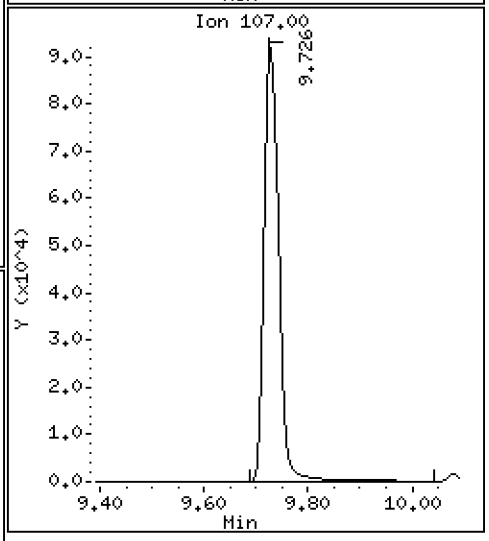
15 4-Methylphenol

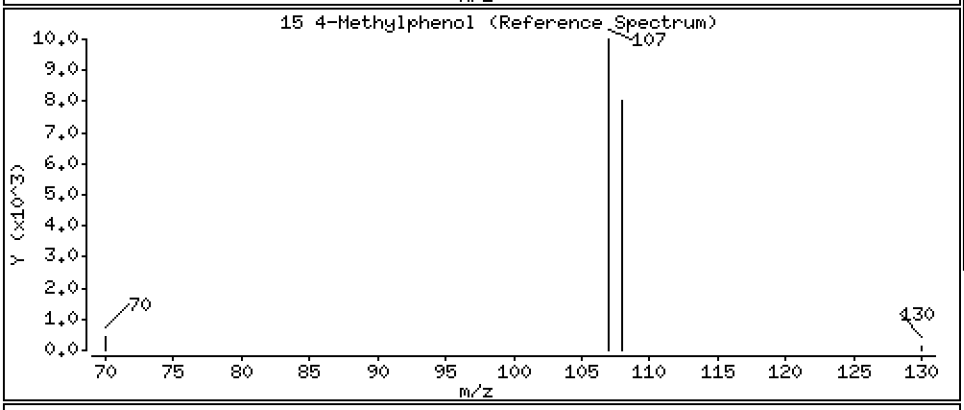
Concentration: 3.980 ug/L

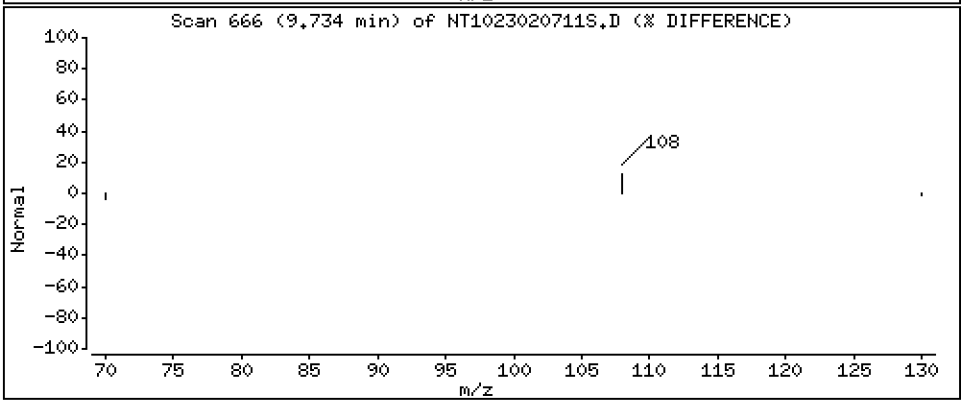












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

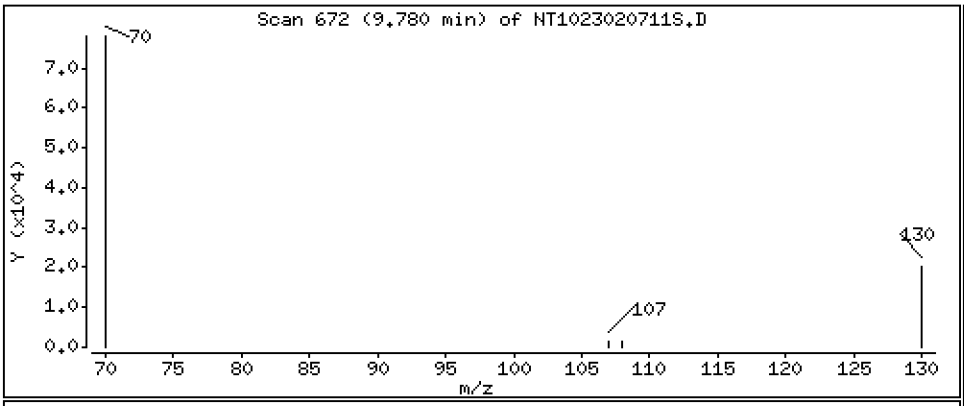
Operator: DSD

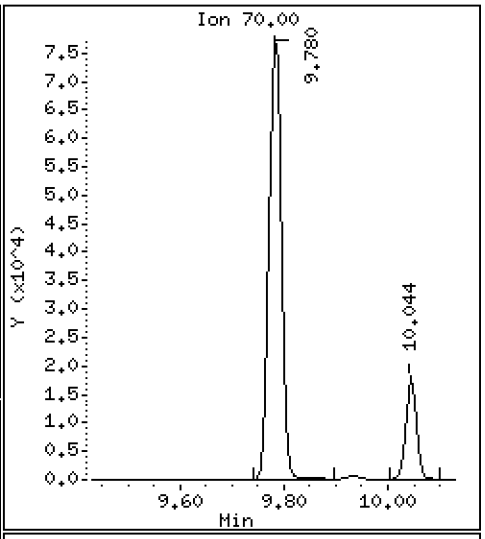
Column phase: ZB-5msi

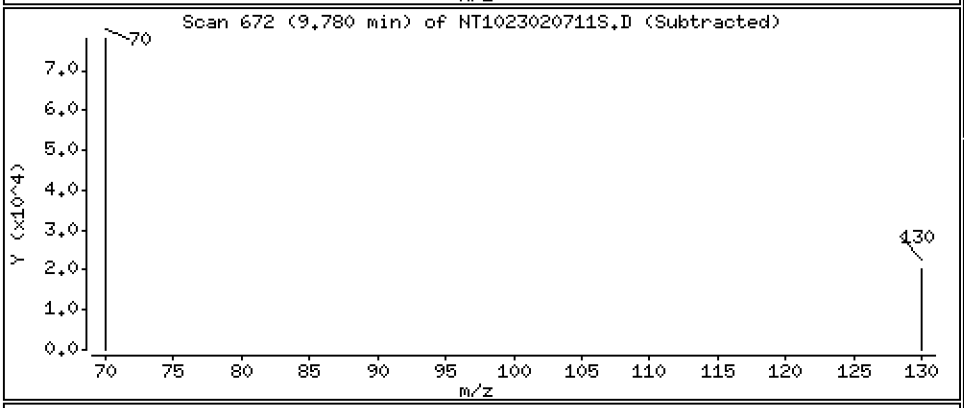
Column diameter: 0.25

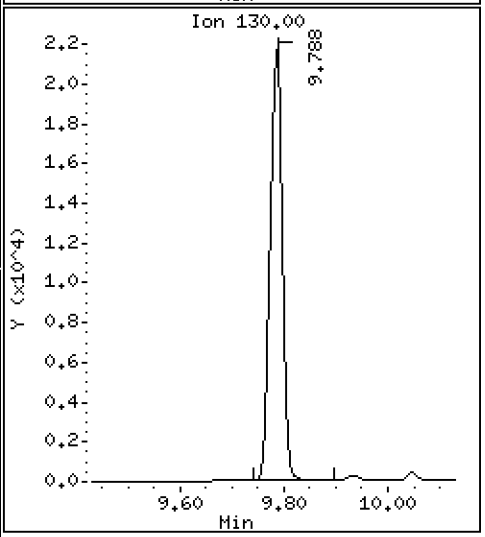
16 N-Nitroso-di-n-propylamine

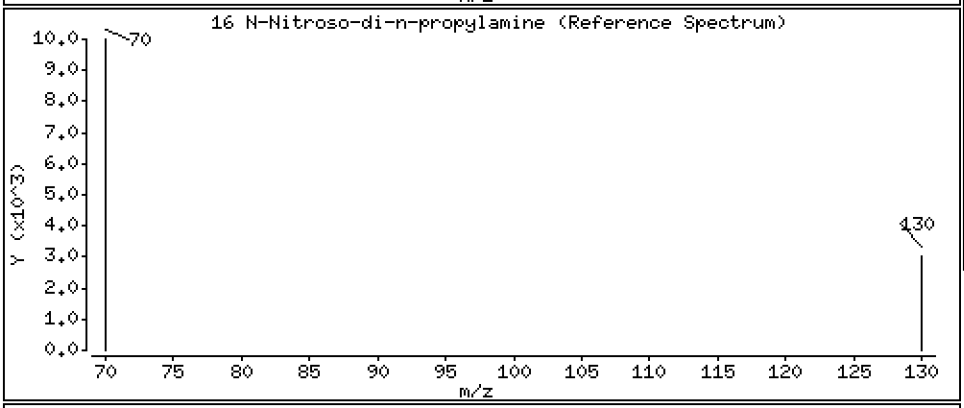
Concentration: 4.396 ug/L

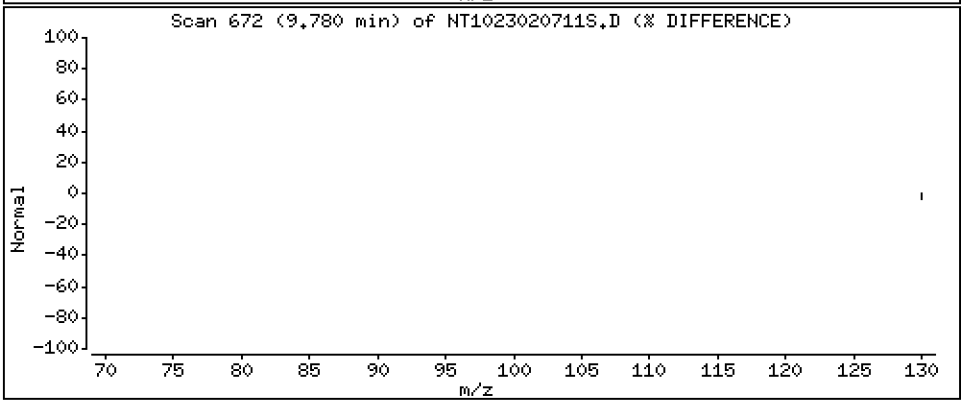












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

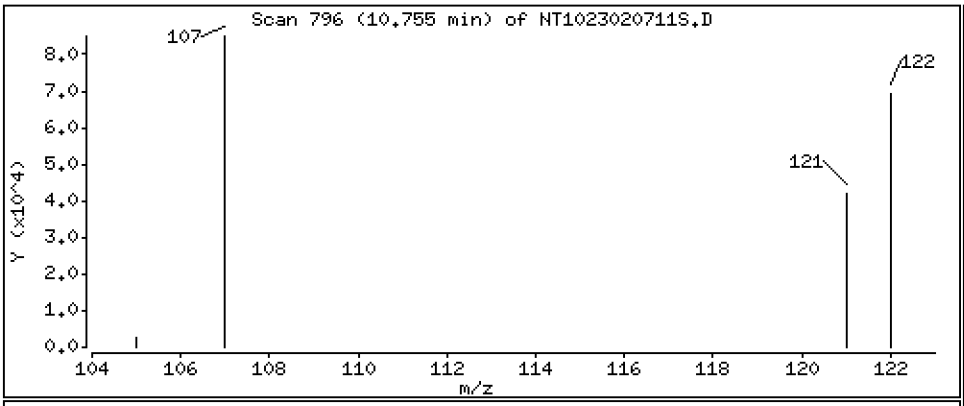
Operator: DSD

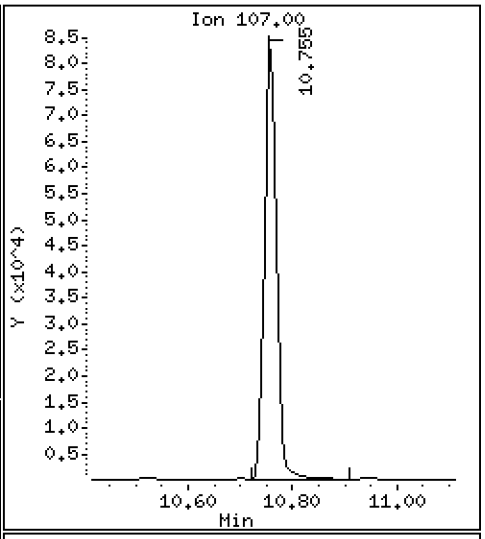
Column phase: ZB-5msi

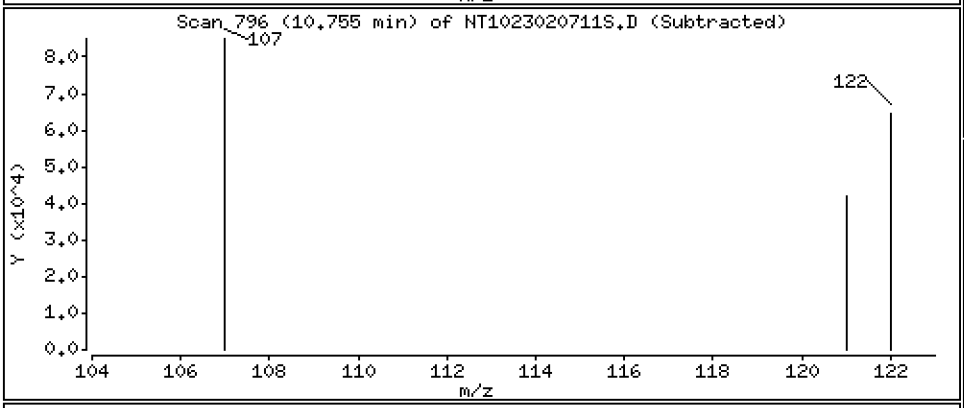
Column diameter: 0.25

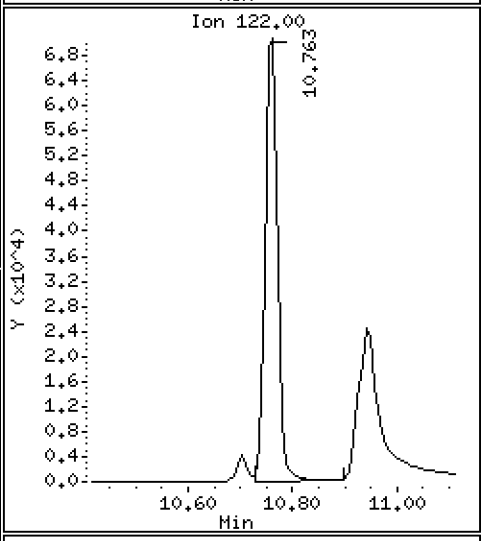
22 2,4-Dimethylphenol

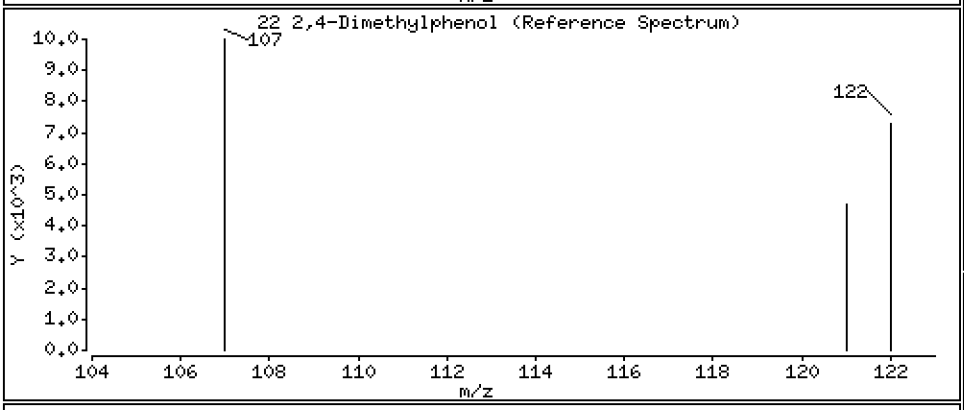
Concentration: 3.353 ug/L

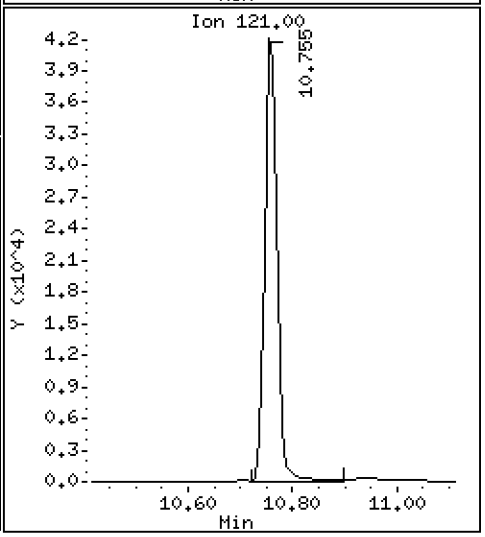


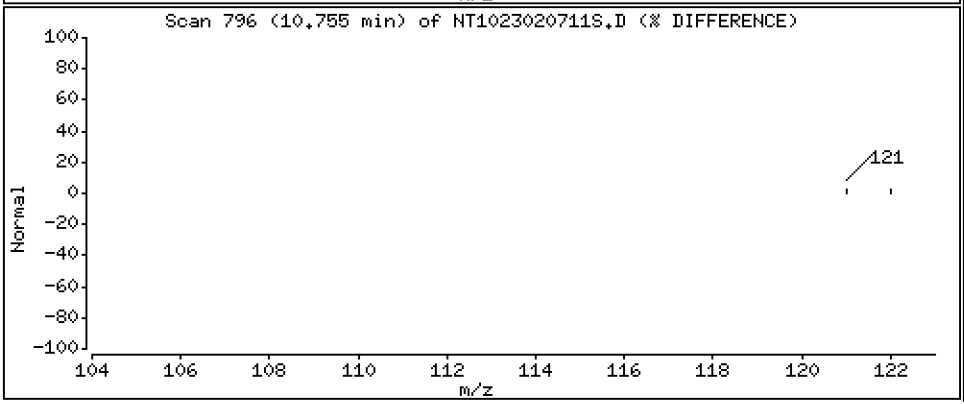












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

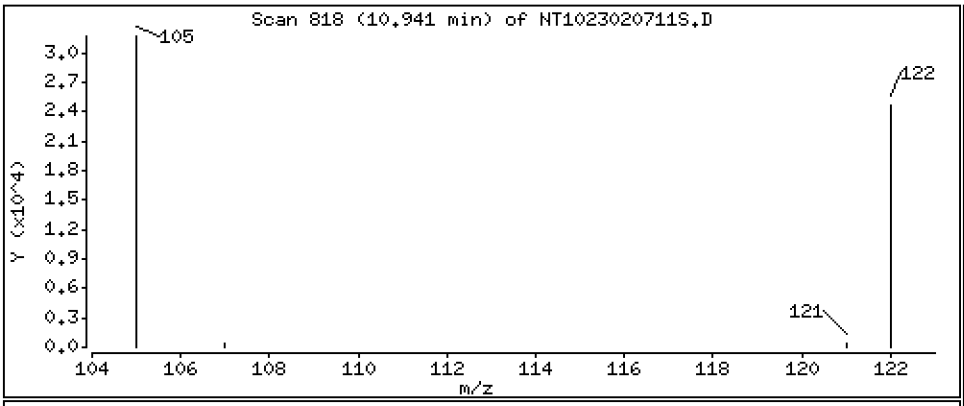
Operator: DSD

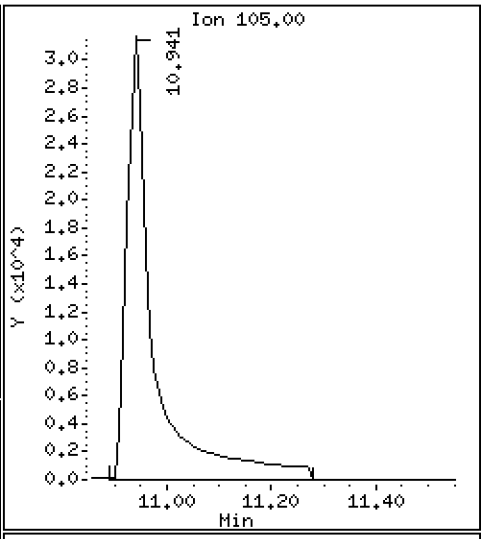
Column phase: ZB-5msi

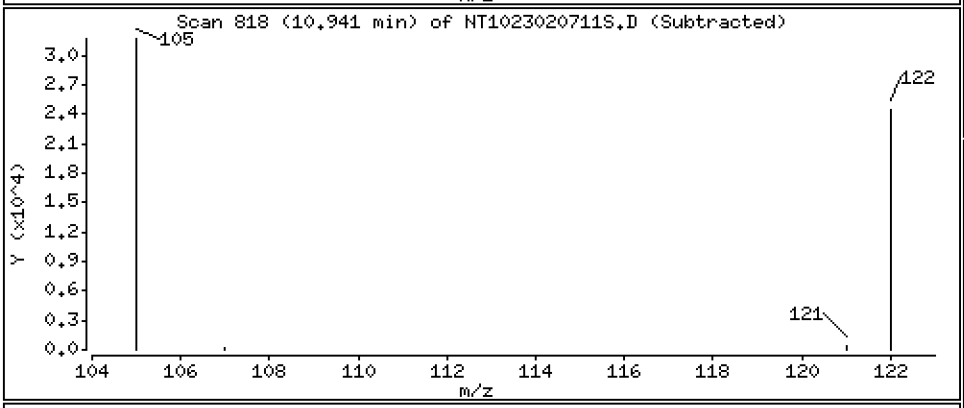
Column diameter: 0.25

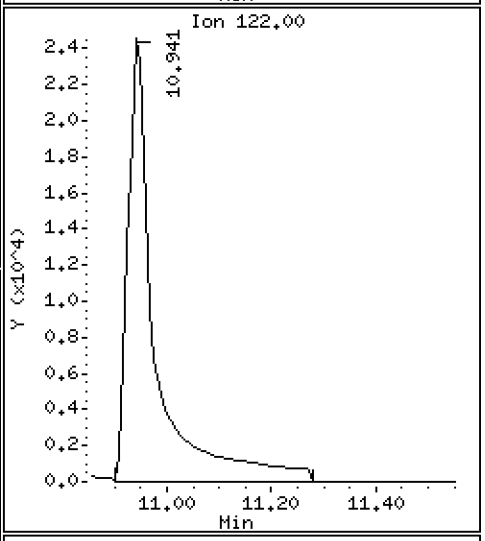
24 Benzoic acid

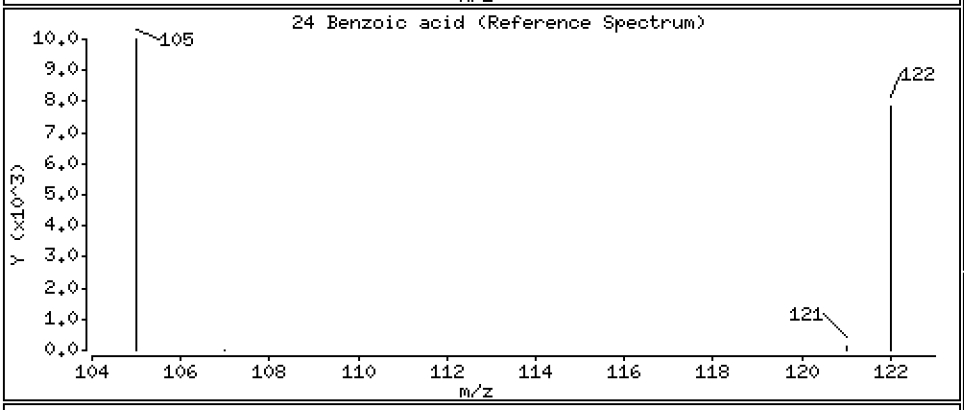
Concentration: 5.884 ug/L

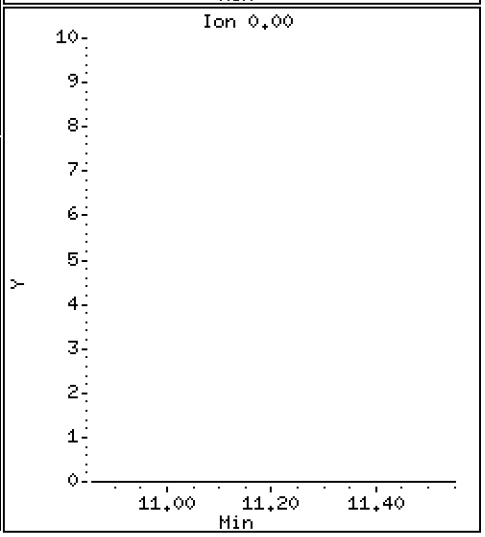


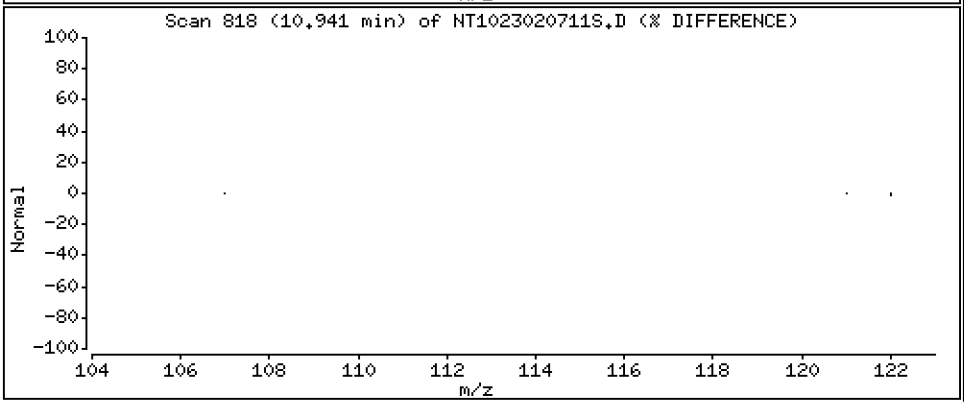












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

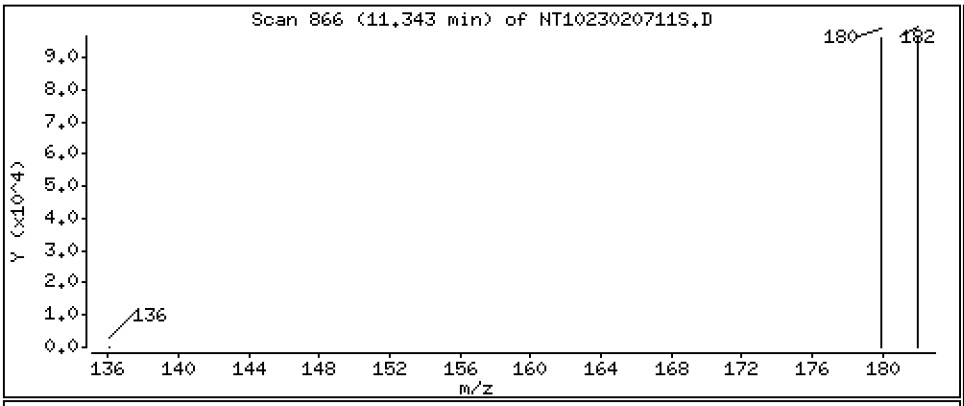
Operator: DSD

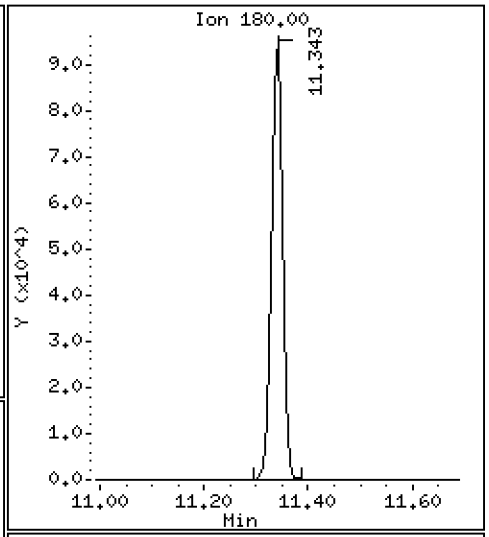
Column phase: ZB-5msi

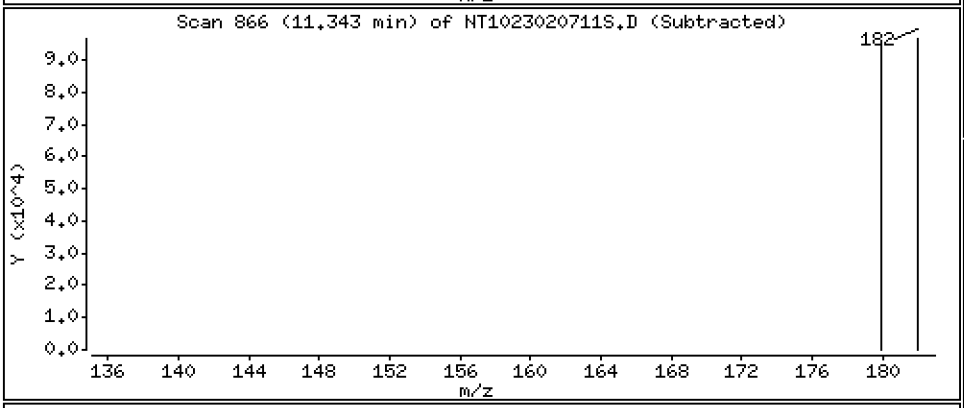
Column diameter: 0.25

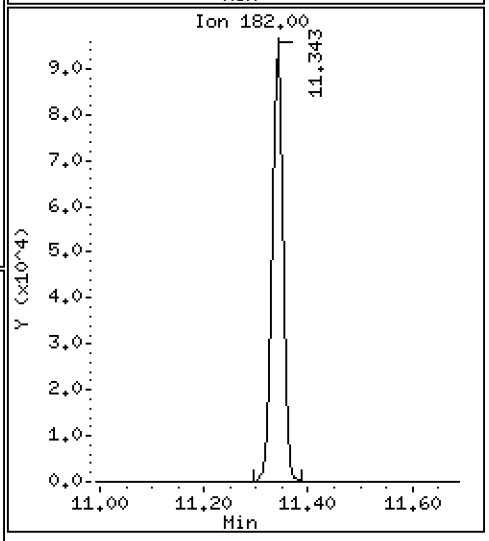
26 1,2,4-Trichlorobenzene

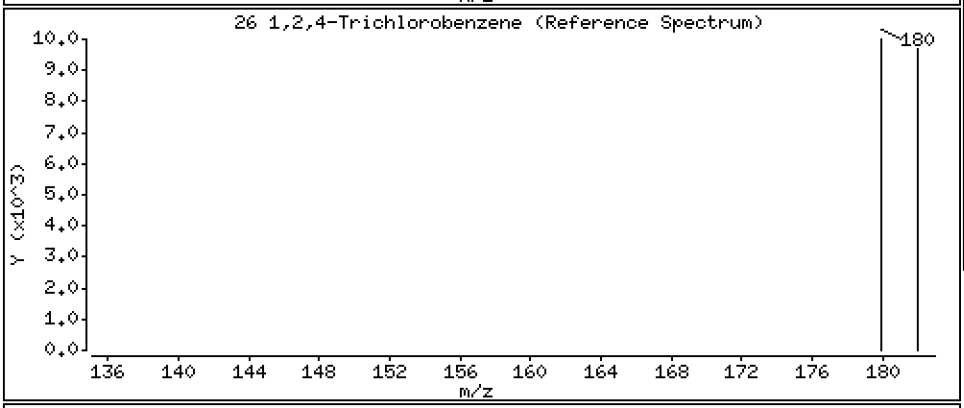
Concentration: 3.930 ug/L

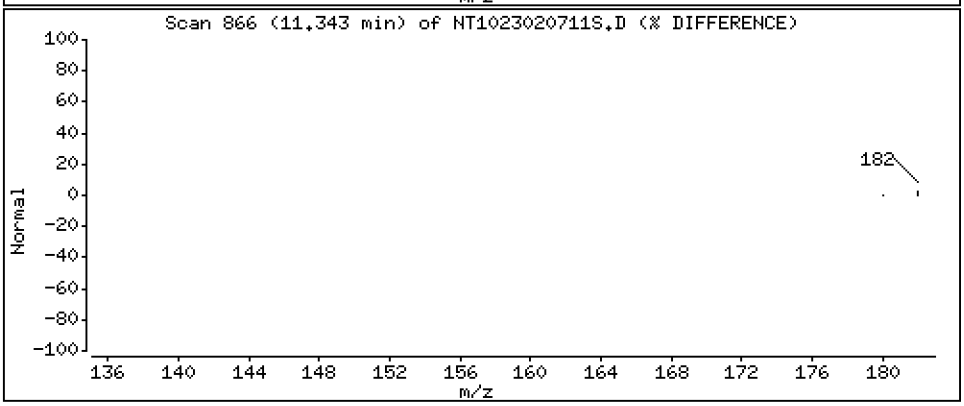












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

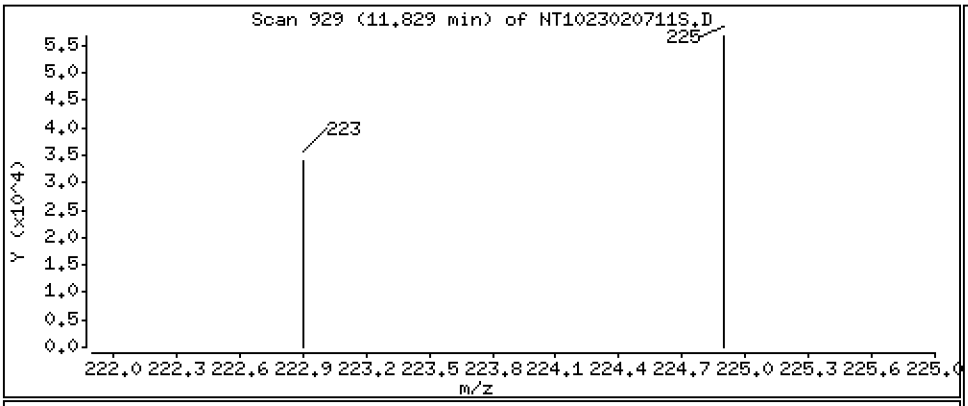
Operator: DSD

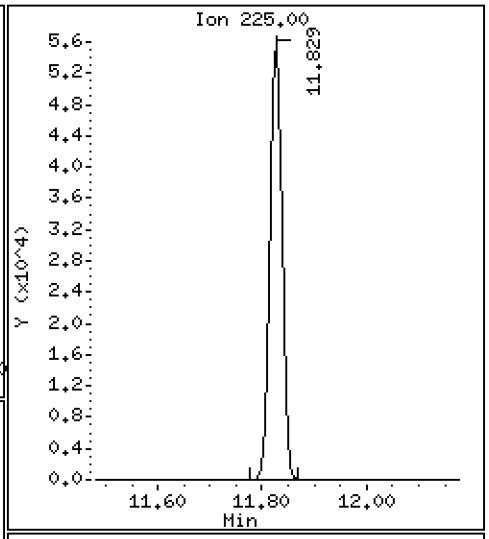
Column phase: ZB-5msi

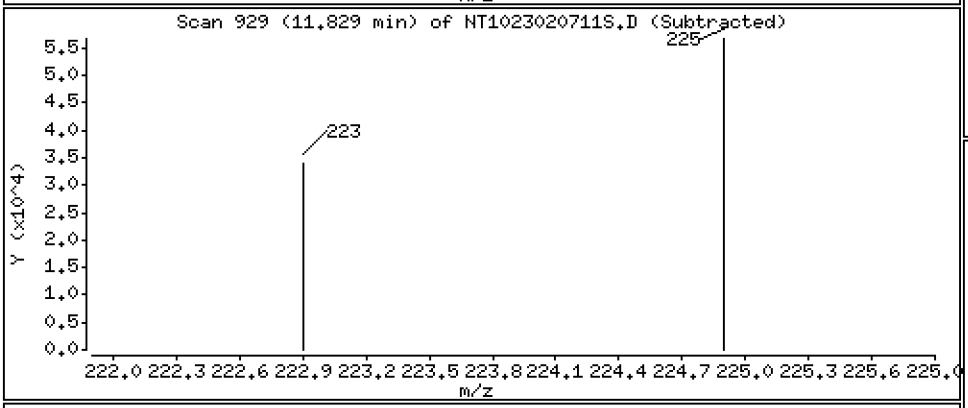
Column diameter: 0.25

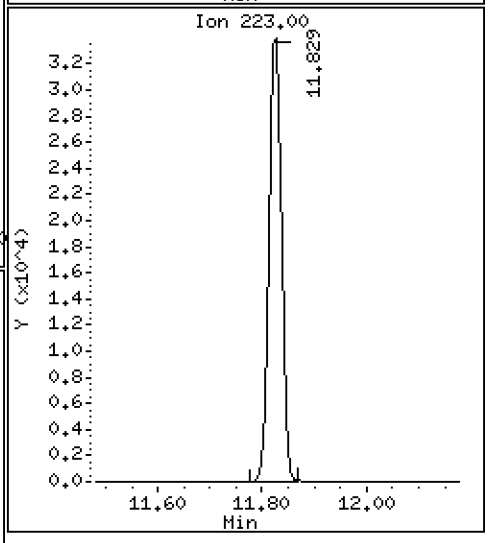
30 Hexachlorobutadiene

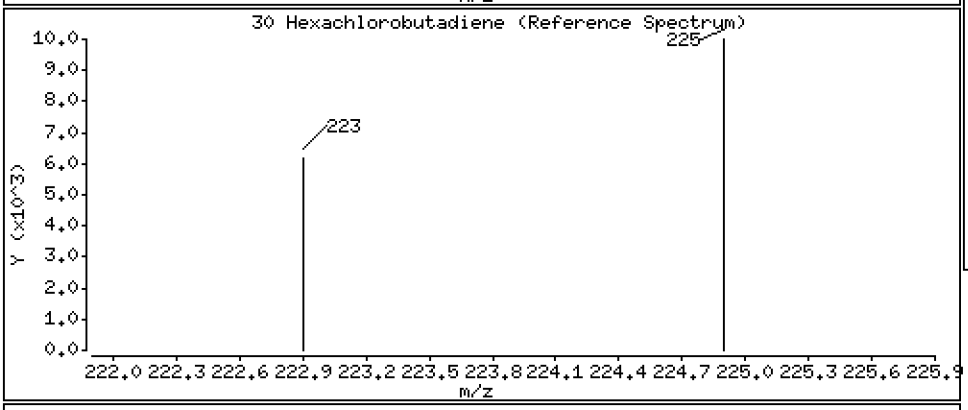
Concentration: 4.166 ug/L

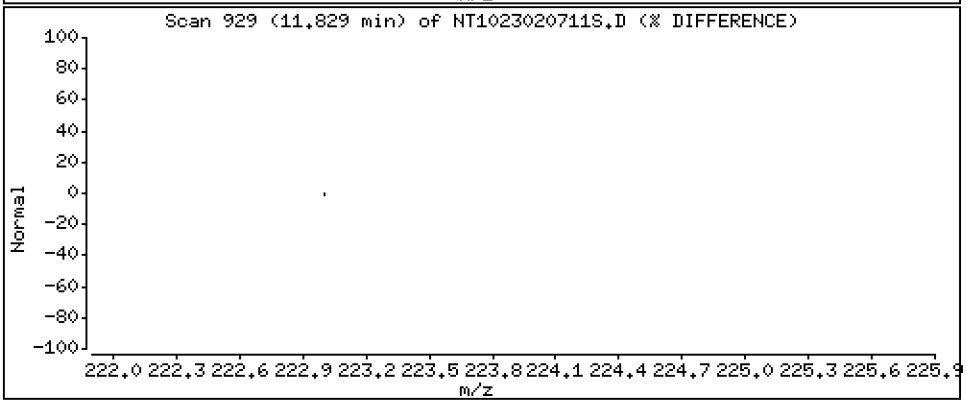












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

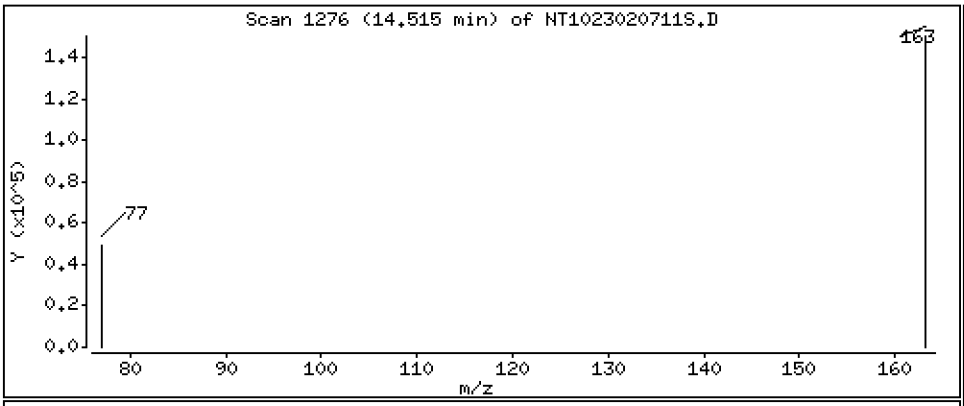
Operator: DSD

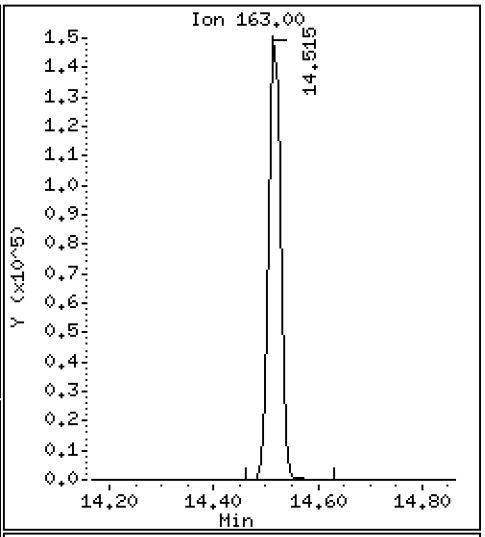
Column phase: ZB-5msi

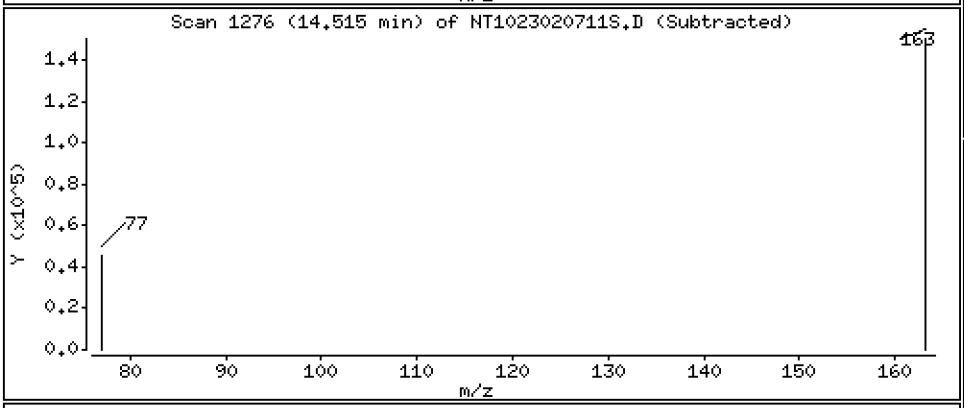
Column diameter: 0.25

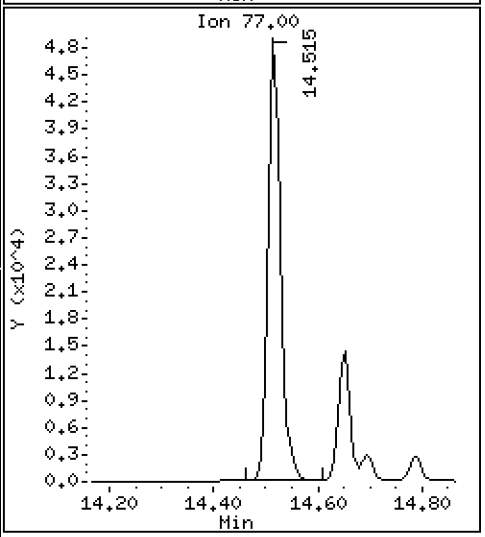
39 Dimethylphthalate

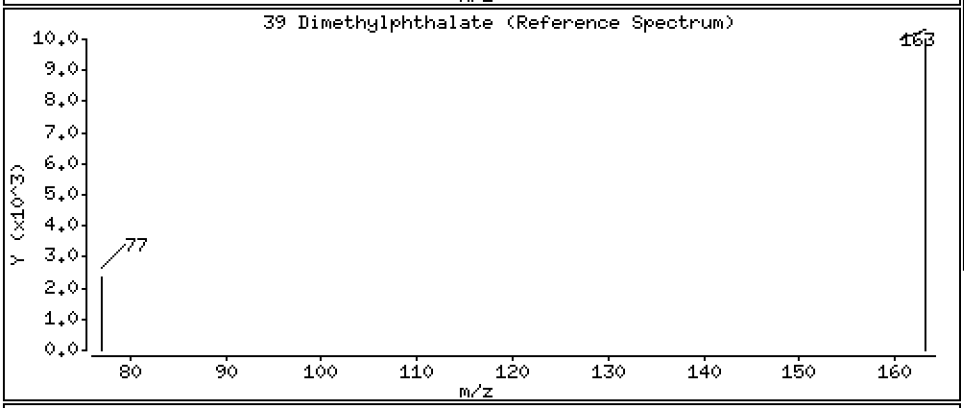
Concentration: 4.173 ug/L

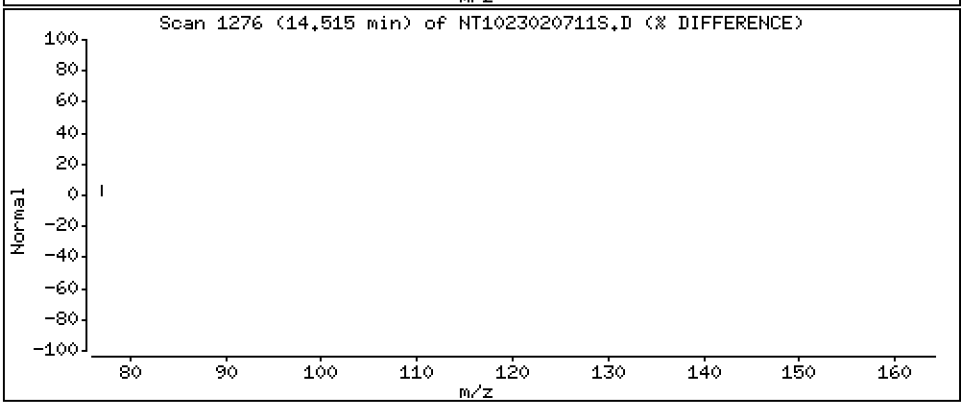












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

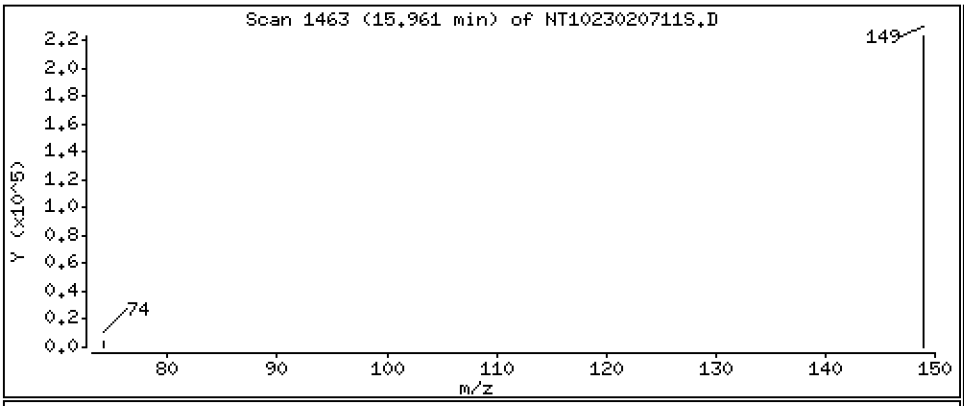
Operator: DSD

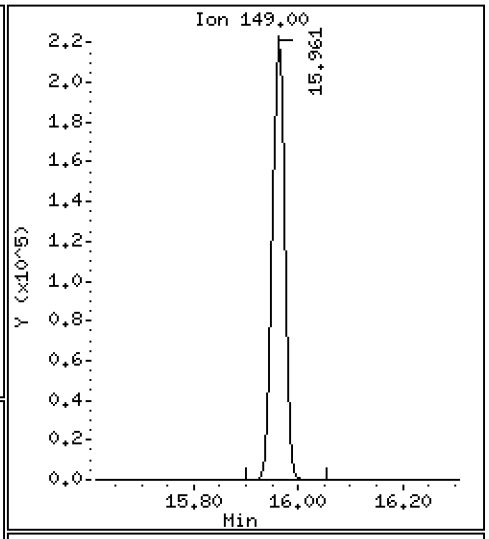
Column phase: ZB-5msi

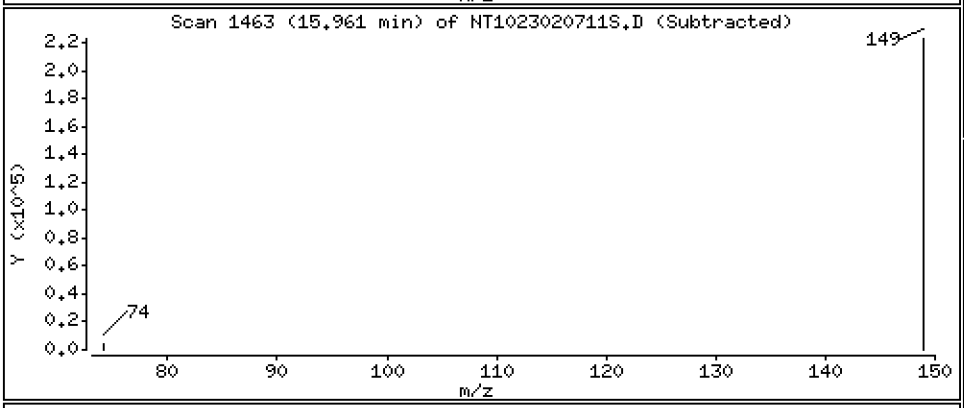
Column diameter: 0.25

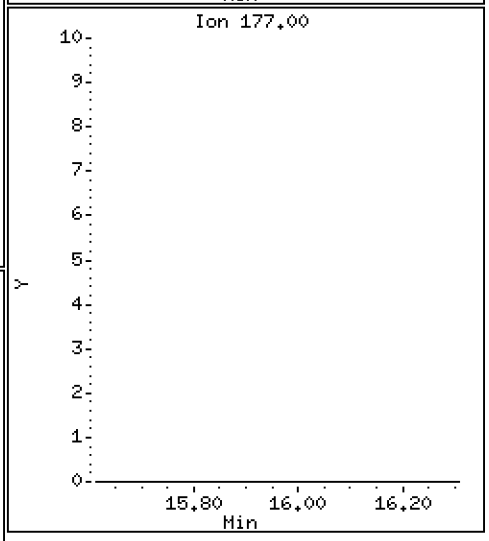
50 Diethylphthalate

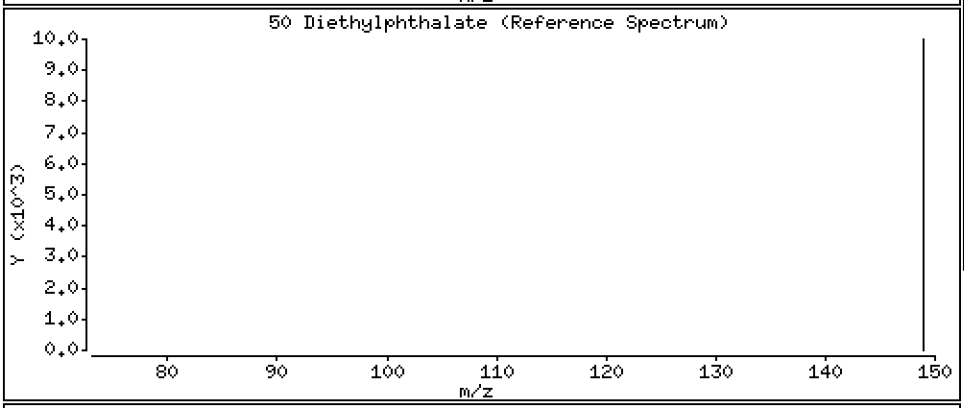
Concentration: 4.282 ug/L

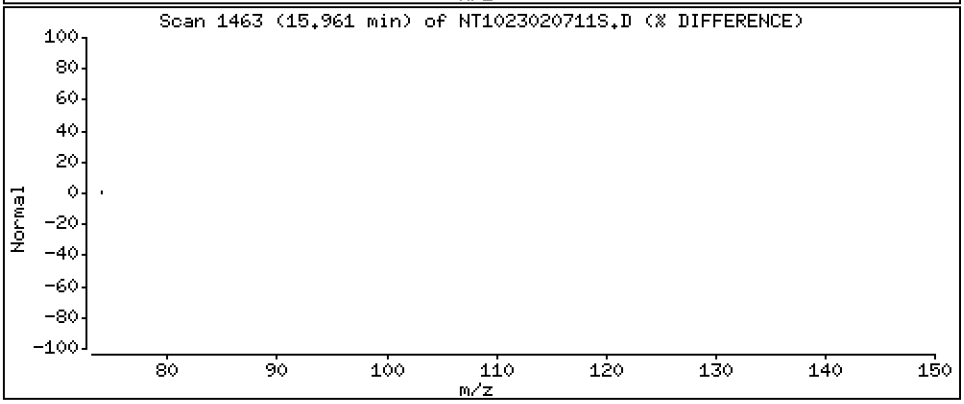












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

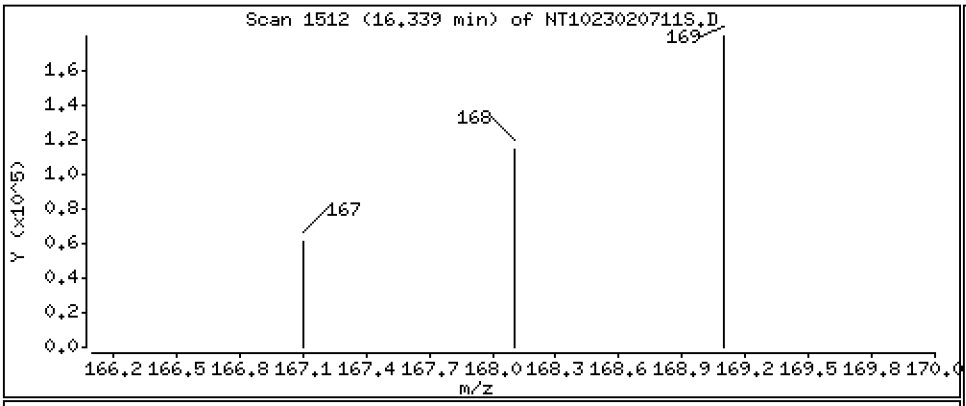
Operator: DSD

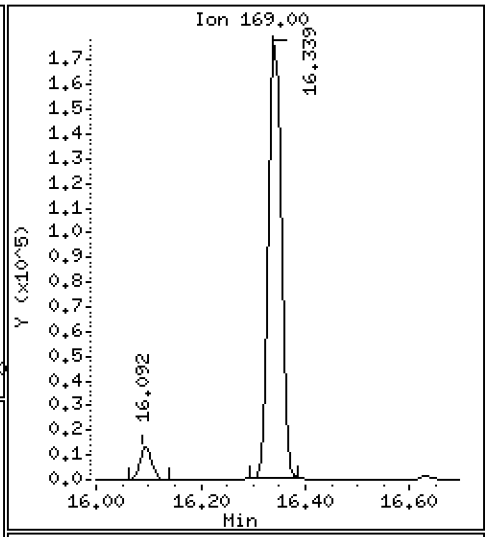
Column phase: ZB-5msi

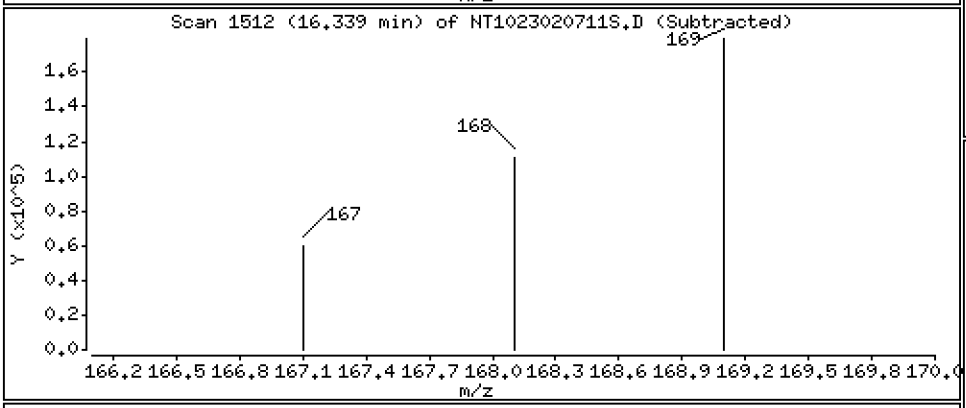
Column diameter: 0.25

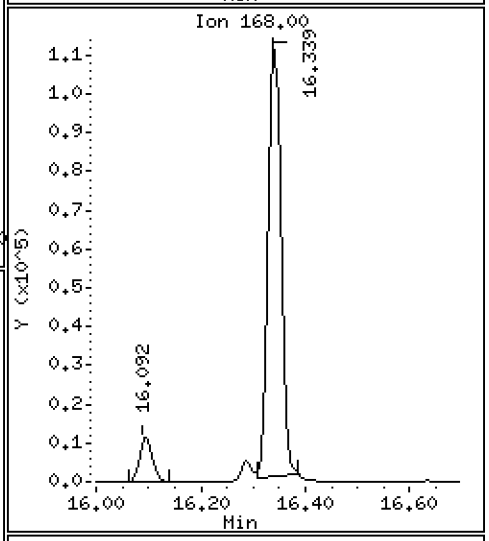
54 N-Nitrosodiphenylamine

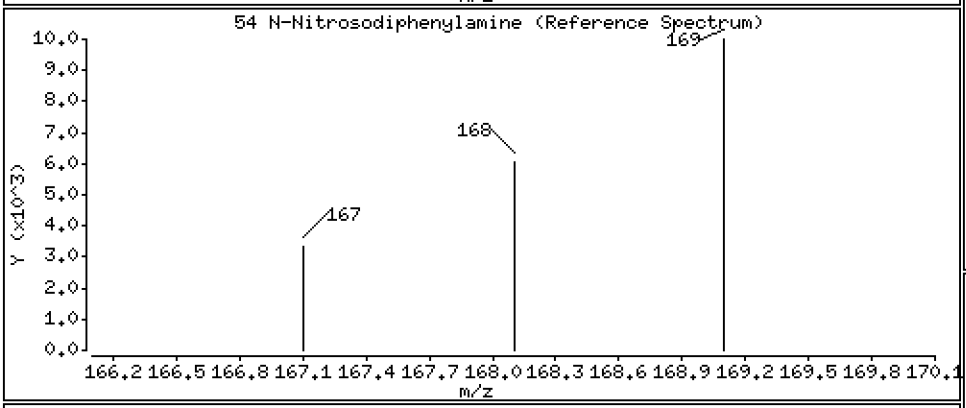
Concentration: 4.205 ug/L

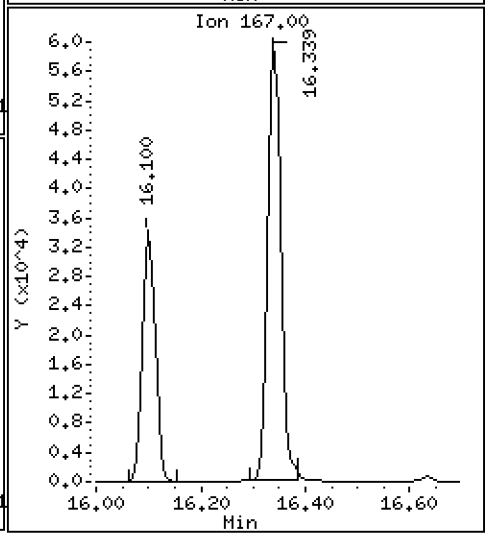


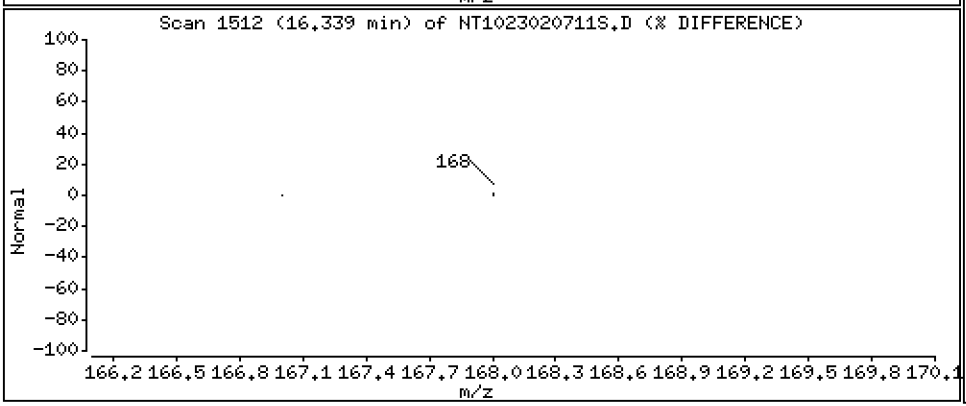












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

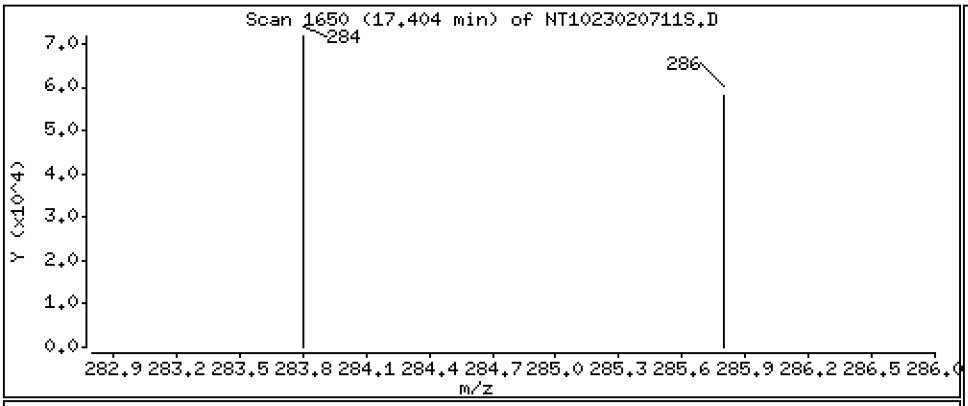
Operator: DSD

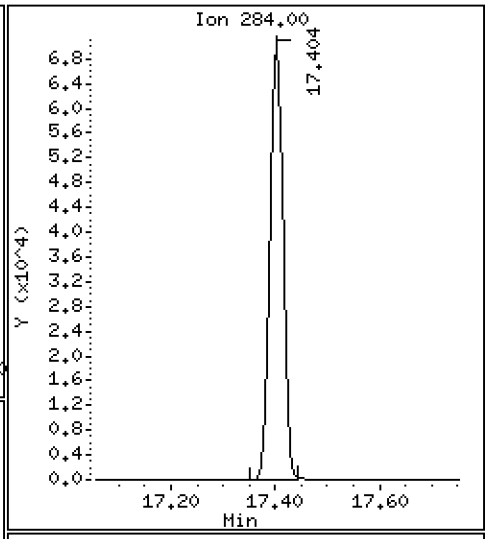
Column phase: ZB-5msi

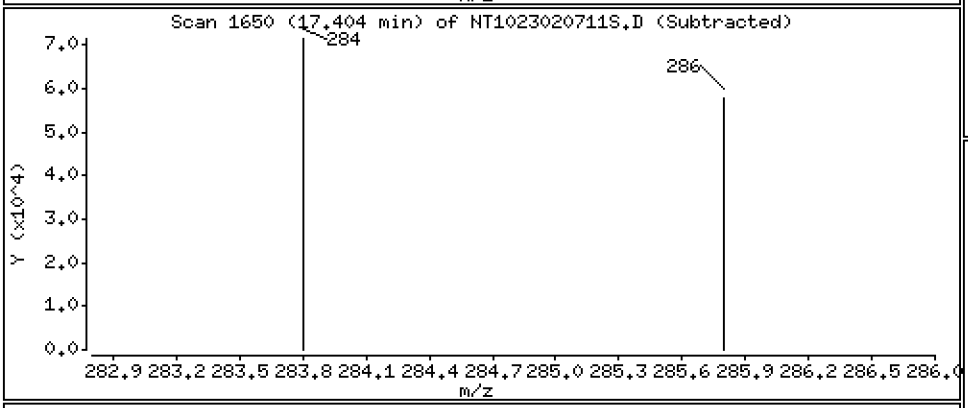
Column diameter: 0.25

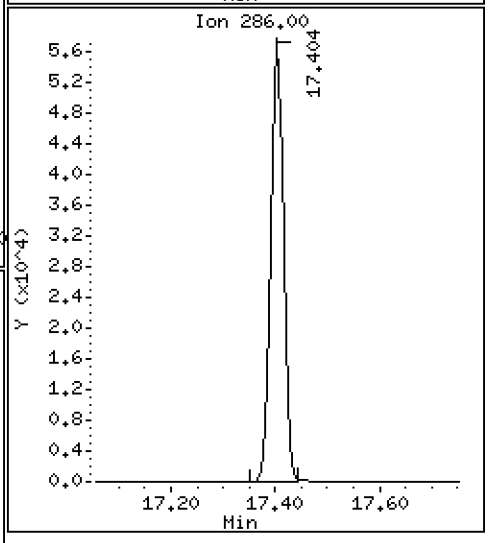
57 Hexachlorobenzene

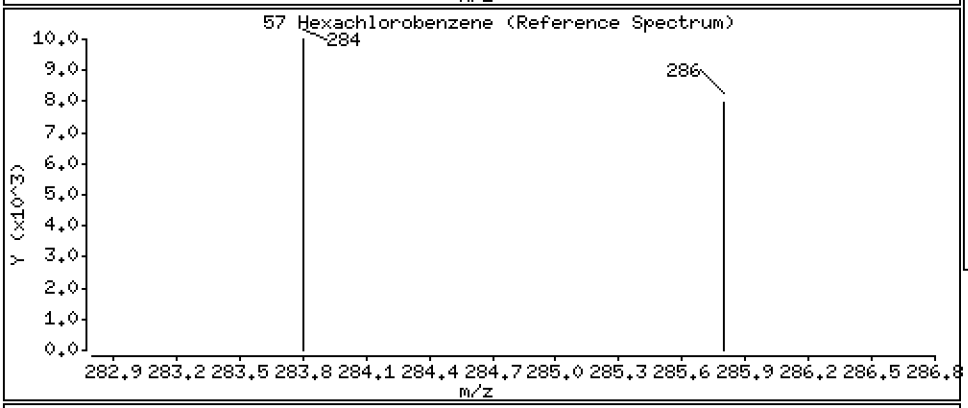
Concentration: 4.026 ug/L

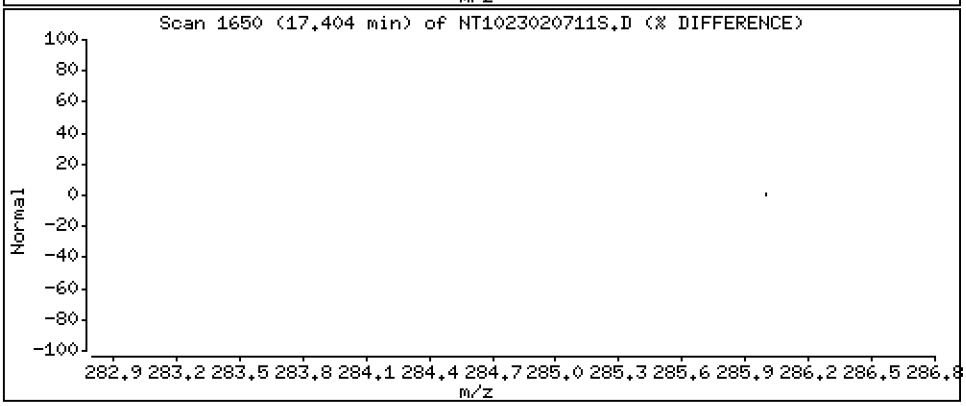












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

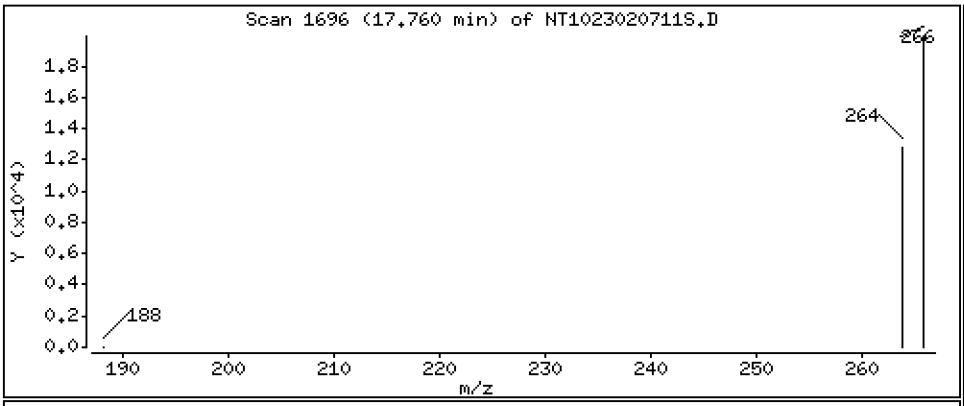
Operator: DSD

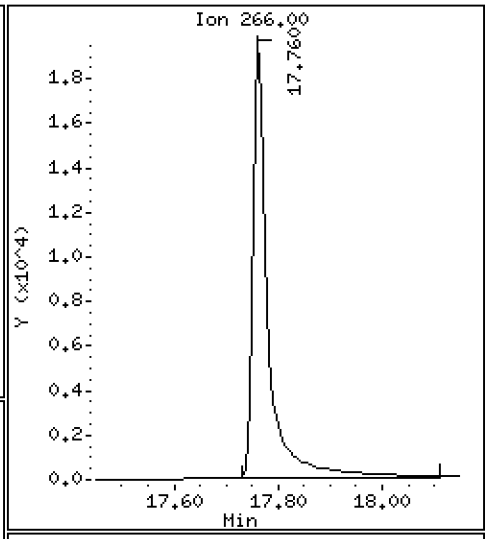
Column phase: ZB-5msi

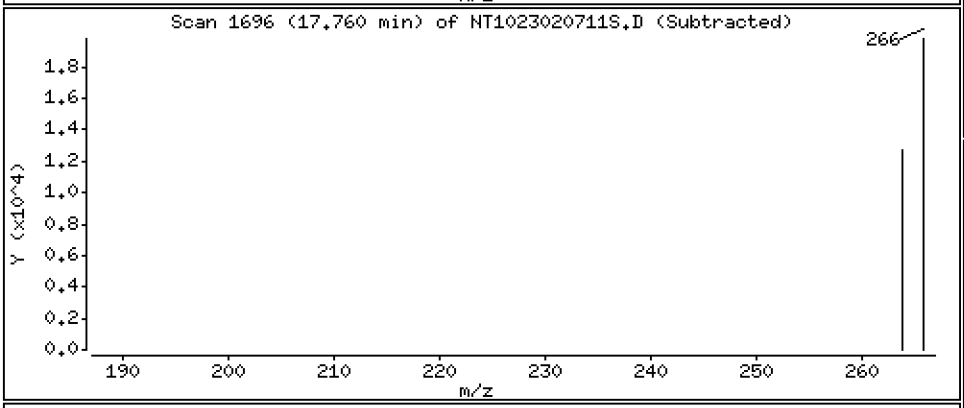
Column diameter: 0.25

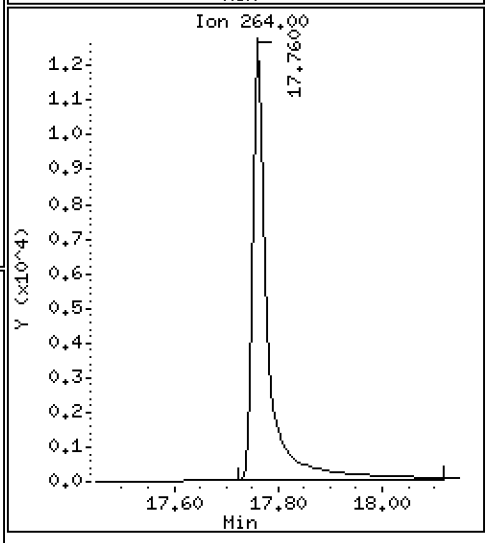
58 Pentachlorophenol

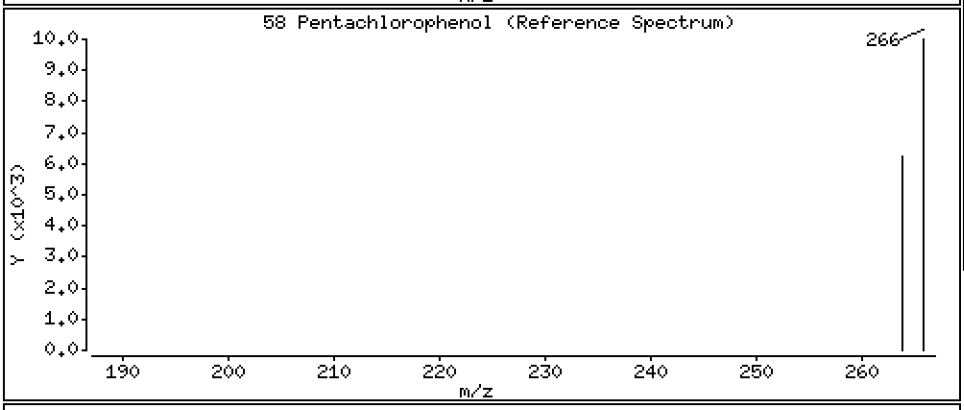
Concentration: 3.994 ug/L

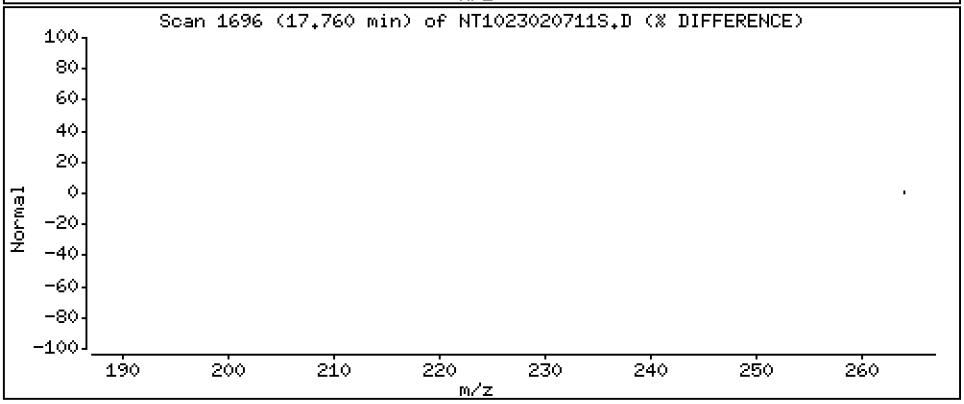












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

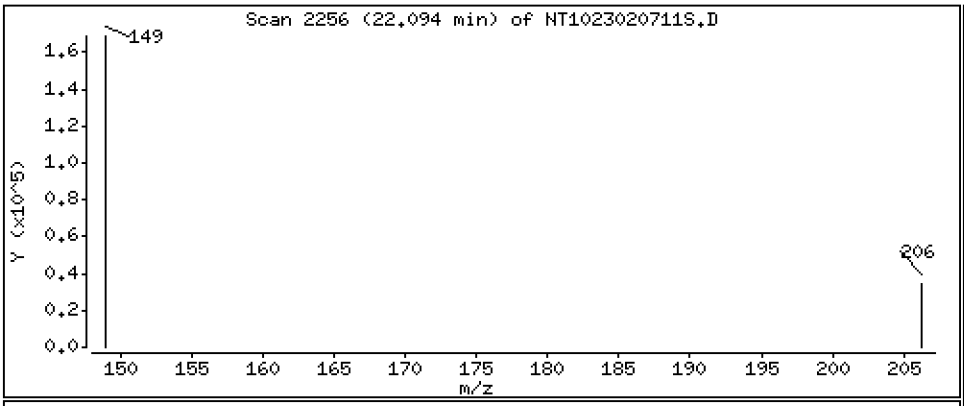
Operator: DSD

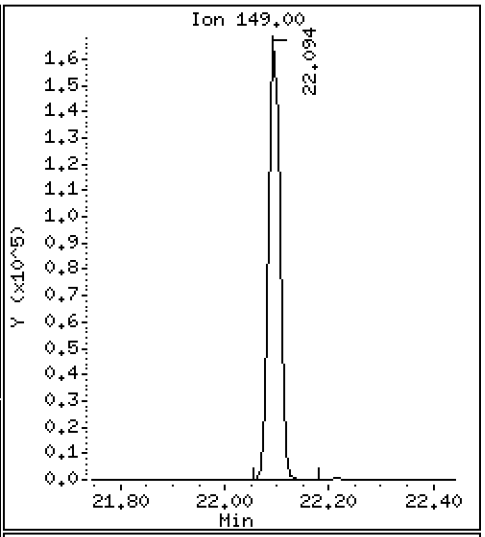
Column phase: ZB-5msi

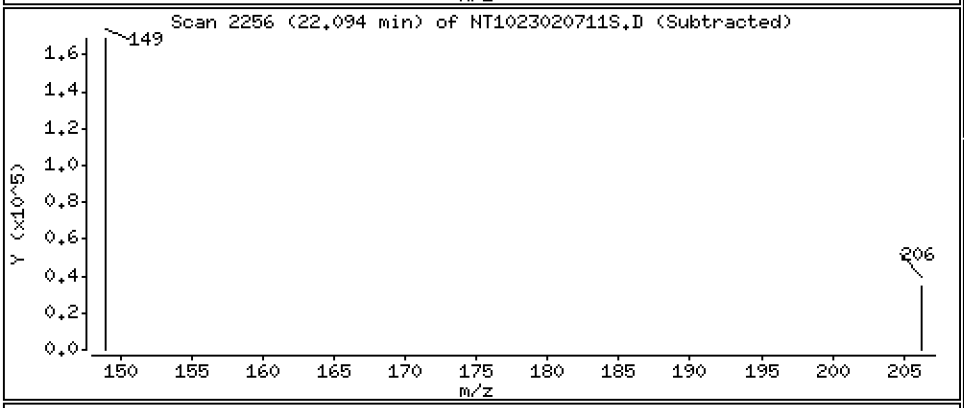
Column diameter: 0.25

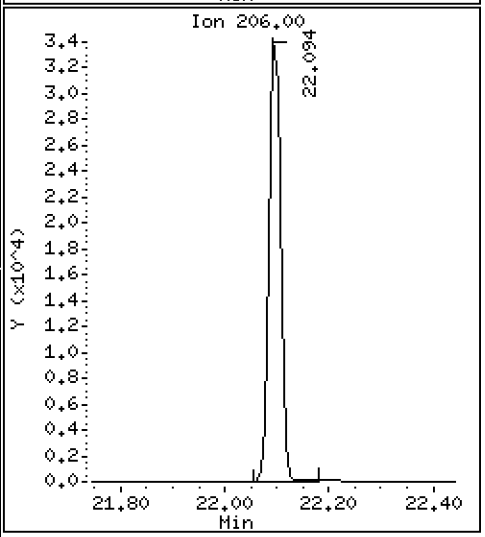
67 Butylbenzylphthalate

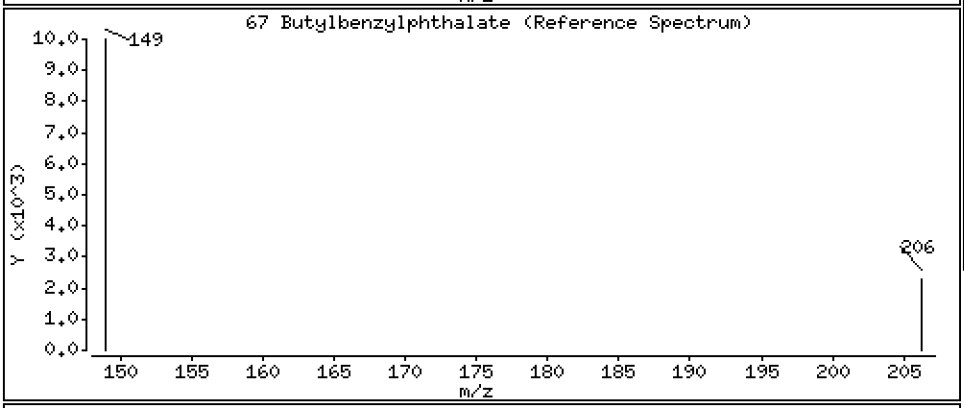
Concentration: 4.408 ug/L

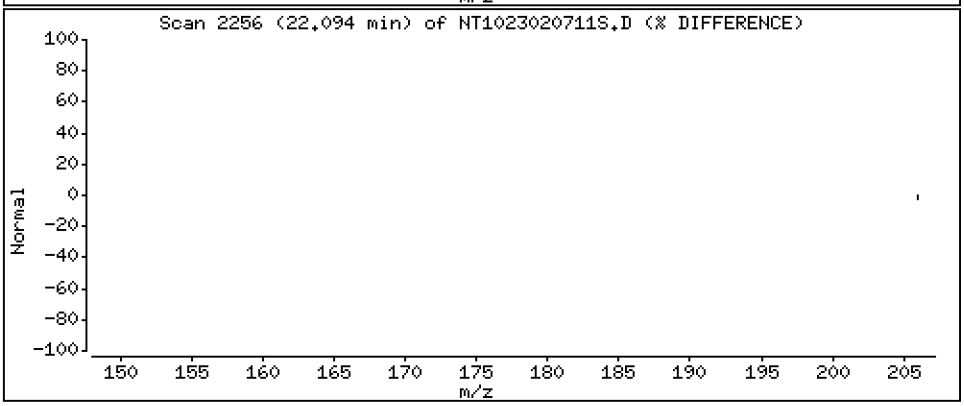












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

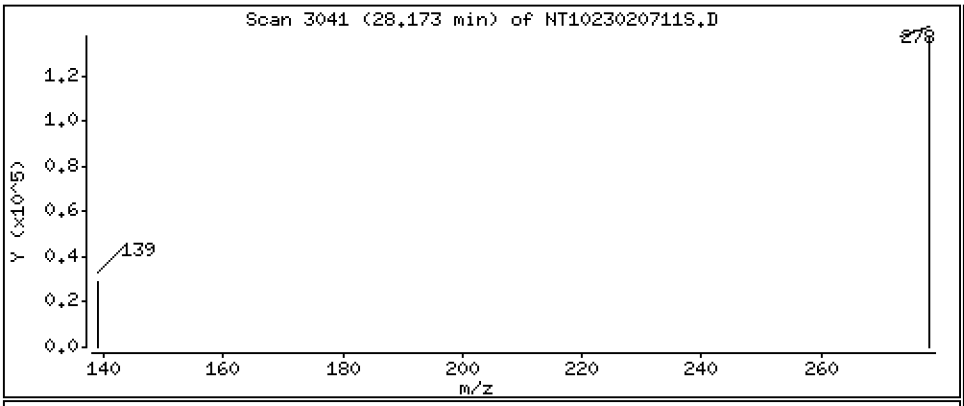
Operator: DSD

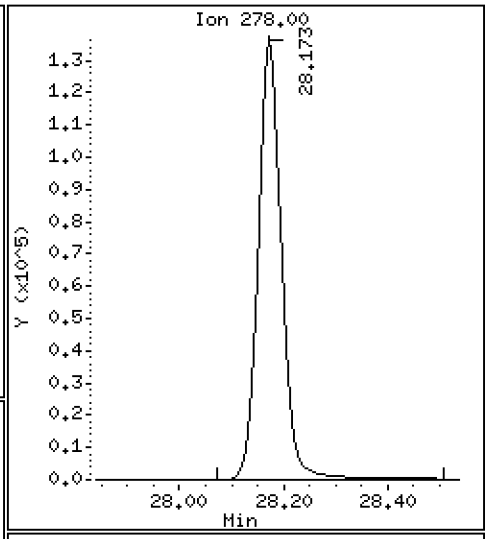
Column phase: ZB-5msi

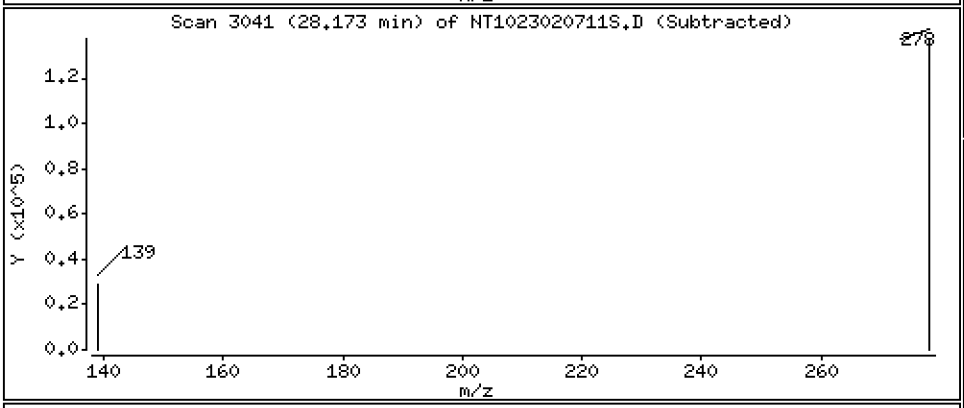
Column diameter: 0.25

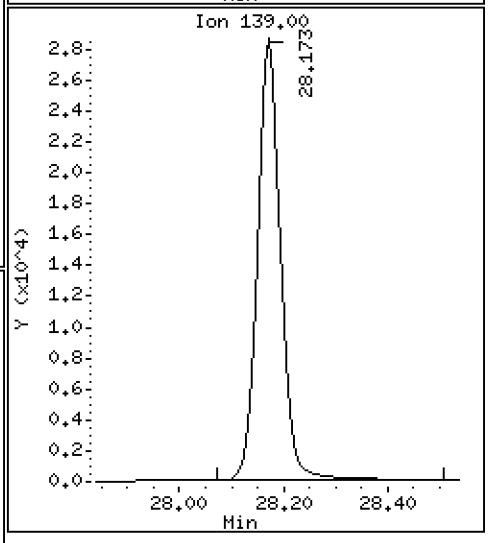
79 Dibenzo(a,h)anthracene

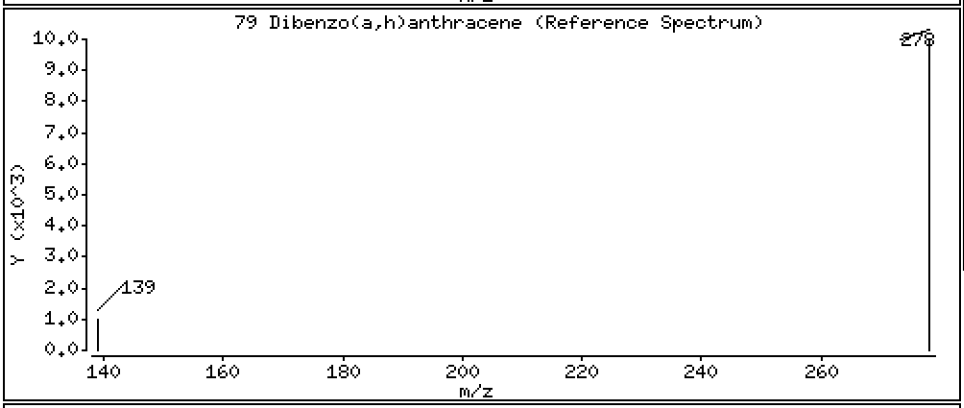
Concentration: 4.213 ug/L

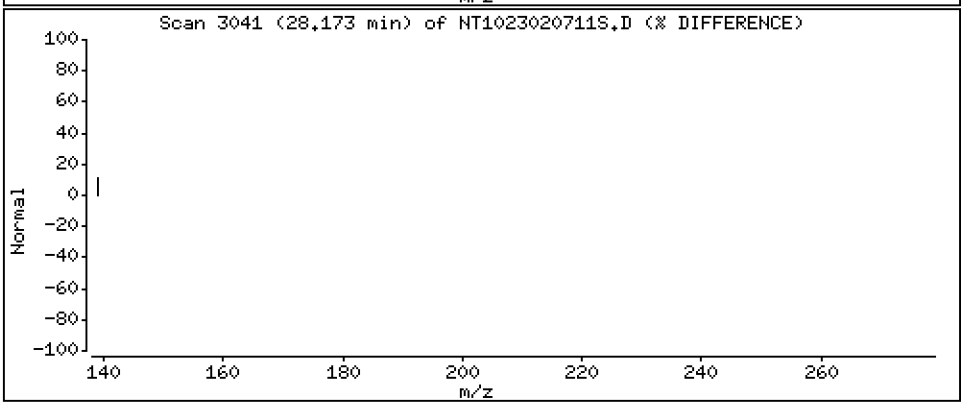












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

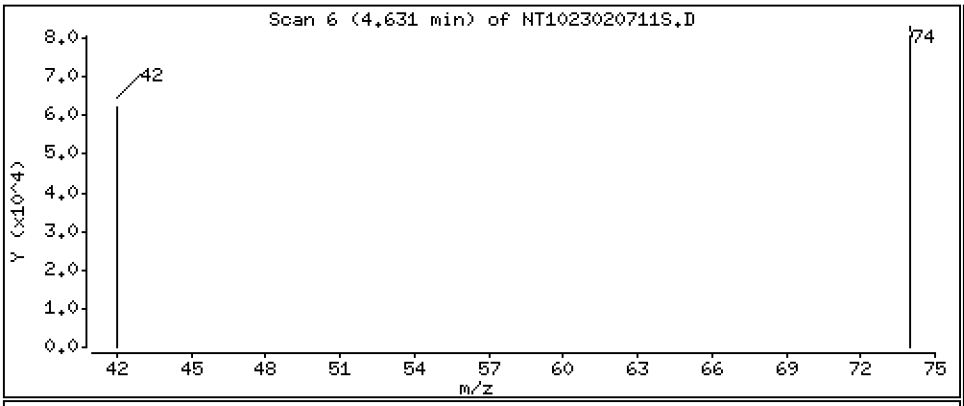
Operator: DSD

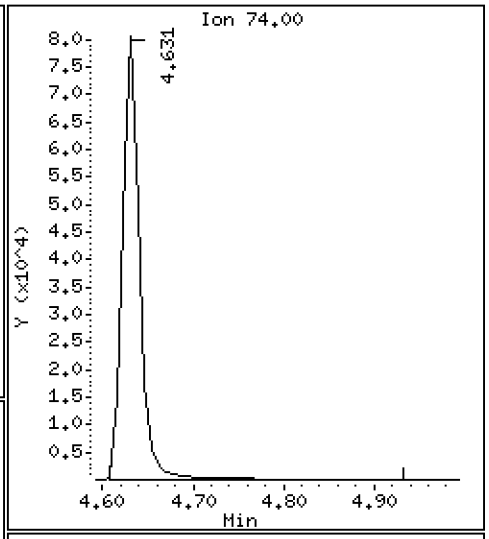
Column phase: ZB-5msi

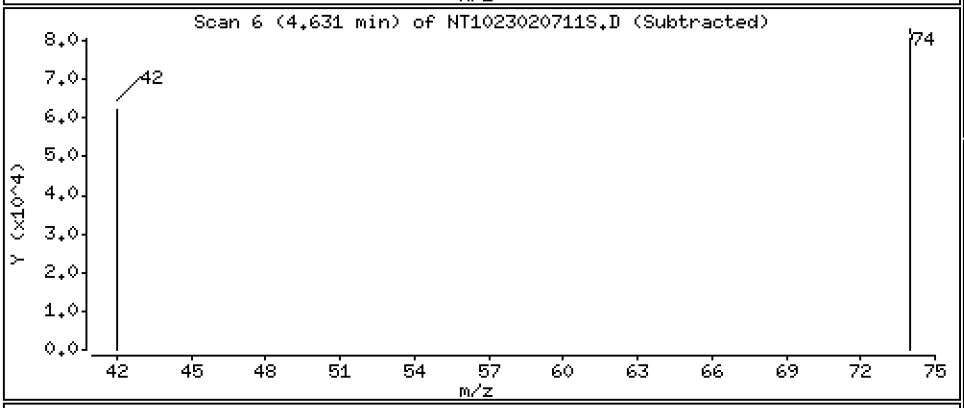
Column diameter: 0.25

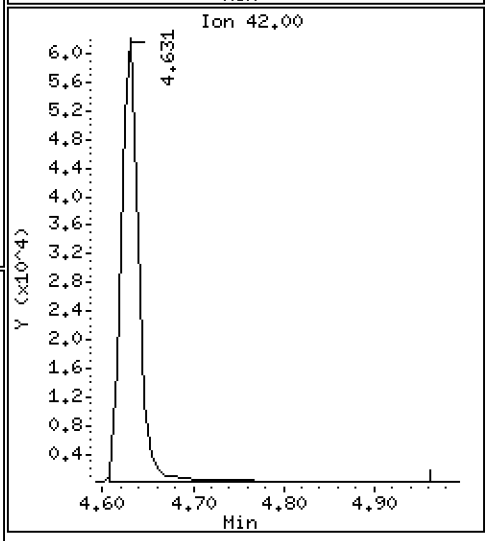
90 N-Nitrosodimethylamine

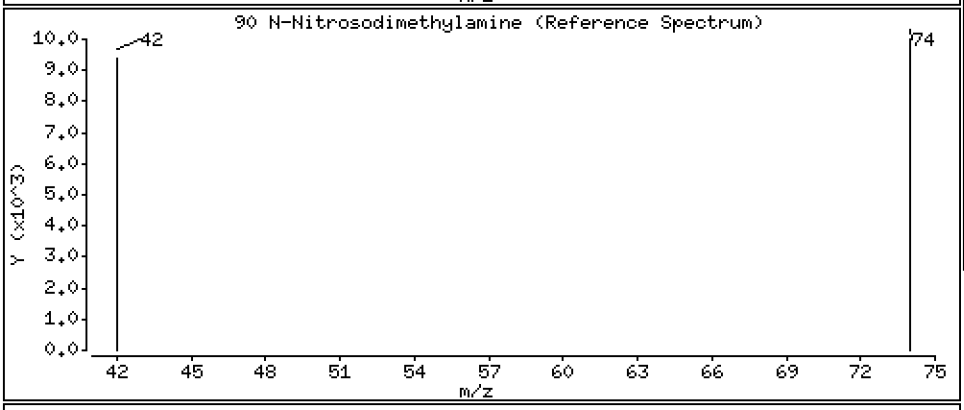
Concentration: 4.486 ug/L

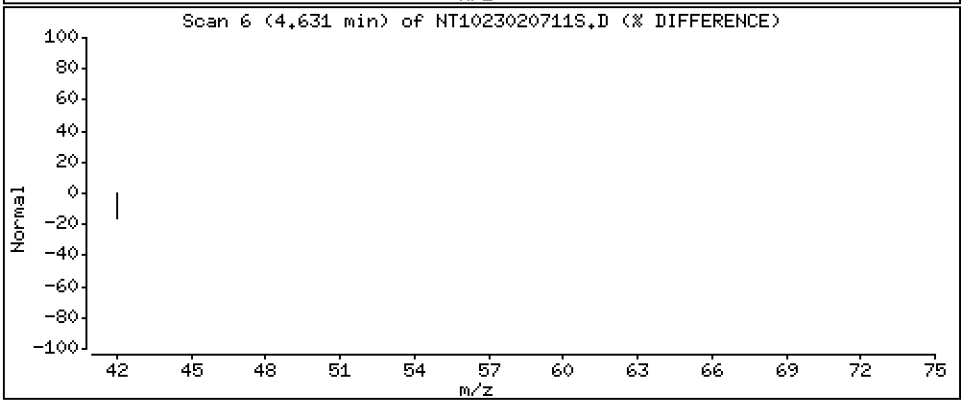












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020711S.D
Lab Smp Id: SLB0106-SCV1
Inj Date : 07-FEB-2023 18:04 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.770	6.785	(0.755)	257806	6.97332	6.973(R)
3	Phenol	94	8.362	8.369	(0.933)	232442	4.16958	4.170
7	1,3-Dichlorobenzene	146	8.903	8.903	(0.993)	208793	4.15895	4.159
* 8	1,4-Dichlorobenzene-d4	152	8.965	8.965	(1.000)	121574	4.00000	
9	1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	207977	4.23719	4.237
11	Benzyl alcohol	79	9.228	9.267	(1.029)	133450	4.90710	4.907
12	1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	201423	4.20453	4.205
13	2-Methylphenol	108	9.461	9.469	(1.055)	138888	3.64937	3.649
15	4-Methylphenol	108	9.733	9.741	(1.086)	154509	3.98044	3.980
16	N-Nitroso-di-n-propylamine	70	9.780	9.780	(1.091)	121809	4.39583	4.396
22	2,4-Dimethylphenol	107	10.754	10.763	(0.942)	134677	3.35264	3.353
24	Benzoic acid	105	10.941	11.204	(0.958)	112855	5.88397	5.884
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	147977	3.93002	3.930
* 27	Naphthalene-d8	136	11.419	11.419	(1.000)	457304	4.00000	
30	Hexachlorobutadiene	225	11.829	11.829	(1.036)	85644	4.16602	4.166
39	Dimethylphthalate	163	14.514	14.514	(0.967)	225259	4.17269	4.173
* 42	Acenaphthene-d10	162	15.010	15.002	(1.000)	231625	4.00000	
50	Diethylphthalate	149	15.960	15.961	(1.063)	348168	4.28244	4.282
54	N-Nitrosodiphenylamine	169	16.339	16.346	(0.907)	286918	4.20471	4.205
57	Hexachlorobenzene	284	17.404	17.404	(0.966)	116927	4.02634	4.026

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.760	17.799	(0.986)	41808	3.99436	3.994
*	59 Phenanthrene-d10	188	18.015	18.015	(1.000)	412906	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.917)	336208	4.23932	4.239(R)
	67 Butylbenzylphthalate	149	22.093	22.094	(0.958)	236283	4.40766	4.408
*	69 Chrysene-d12	240	23.069	23.061	(1.000)	357298	4.00000	
*	77 Perylene-d12	264	25.616	25.616	(1.000)	361150	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.173	28.188	(1.100)	426459	4.21339	4.213
	90 N-Nitrosodimethylamine	74	4.631	4.646	(0.517)	108685	4.48609	4.486

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020711S.D
Lab Smp Id: SLB0106-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	121574	-5.61
27 Naphthalene-d8	469043	234522	938086	457304	-2.50
42 Acenaphthene-d10	233225	116613	466450	231625	-0.69
59 Phenanthrene-d10	433858	216929	867716	412906	-4.83
69 Chrysene-d12	361809	180905	723618	357298	-1.25
77 Perylene-d12	380407	190204	760814	361150	-5.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.97	0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.01	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.00
69 Chrysene-d12	23.06	22.56	23.56	23.07	0.03
77 Perylene-d12	25.62	25.12	26.12	25.62	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020711S.D

Lab ID: SLB0106-SCV1
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 18:04

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.958	0.000	0.9581	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GB00019
Lab File ID:	NT1023020714S.D	Calibration Date:	02/07/2023
Sequence:	SLB0106	Injection Date:	02/07/23
Lab Sample ID:	SLB0106-ICV1	Injection Time:	19:58
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
1,4-Dichlorobenzene	A	1.0000	1.0	1.6149400	1.6601990		2.8	+/-20	
1,2-Dichlorobenzene	A	1.0000	1.0	1.5761980	1.6285060		3.3	+/-20	
Benzyl Alcohol	A	1.0000	1.0	0.8947729	0.9337136		4.4	+/-20	
Benzoic acid	A	4.0000	1.8	0.1278126	0.0720782		-56.0	+/-20	*
2,4-Dimethylphenol	A	2.0000	2.1	0.3513679	0.3757299		6.9	+/-20	
1,2,4-Trichlorobenzene	A	1.0000	1.0	0.3293471	0.3407554		3.5	+/-20	
N-Nitrosodiphenylamine	A	1.0000	1.1	0.6610440	0.7009509		6.0	+/-20	
Pentachlorophenol	A	2.0000	1.6	0.0758741	0.0794756		-19.9	+/-20	
2-Fluorophenol	A	1.5000	1.55	1.2163900	1.2601210		3.6	+/-20	
p-Terphenyl-d14	A	1.0000	1.04	0.8878533	0.9200419		3.6	+/-20	
1,4-Dichlorobenzene-d4	A	4.0000	4.0	30973.3800	1.0000		0.0		
Naphthalene-d8	A	4.0000	4.0	113826.4000	1.0000		0.0		
Acenaphthene-d10	A	4.0000	4.0	56470.7200	1.0000		0.0		
Phenanthrene-d10	A	4.0000	4.0	104263.0000	1.0000		0.0		
Chrysene-d12	A	4.0000	4.0	86682.5900	1.0000		0.0		
Perylene-d12	A	4.0000	4.0	90469.2800	1.0000		0.0		

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207145.D

Date : 07-FEB-2023 19:58

Client ID:

Instrument: nt10.i

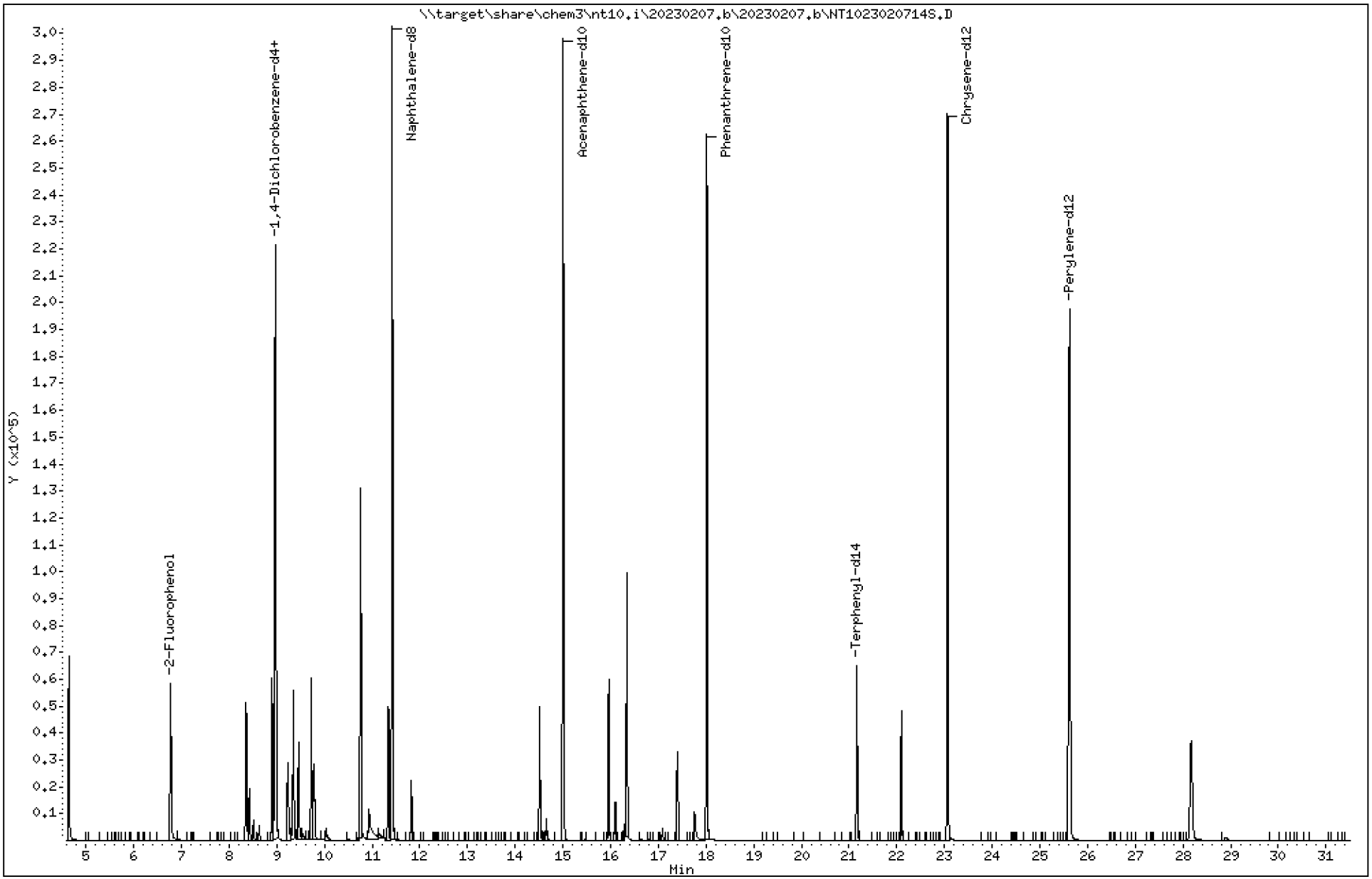
Sample Info: SLB0106-ICV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020714S.D
Lab Smp Id: SLB0106-ICV1
Inj Date : 07-FEB-2023 19:58 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-ICV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 13:28 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	6.770	6.770	(0.755)	60474	1.50000	1.554
3	Phenol	94	8.354	8.354	(0.932)	65600	1.00000	1.118
7	1,3-Dichlorobenzene	146	8.903	8.903	(0.993)	54023	1.00000	1.022
* 8	1,4-Dichlorobenzene-d4	152	8.965	8.965	(1.000)	127975	4.00000	
9	1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	53116	1.00000	1.028
11	Benzyl alcohol	79	9.228	9.228	(1.029)	29873	1.00000	1.044
12	1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	52102	1.00000	1.033
13	2-Methylphenol	108	9.454	9.454	(1.055)	42276	1.00000	1.055
15	4-Methylphenol	108	9.725	9.725	(1.085)	44304	1.00000	1.084
16	N-Nitroso-di-n-propylamine	70	9.780	9.780	(1.091)	31023	1.00000	1.064
22	2,4-Dimethylphenol	107	10.754	10.754	(0.942)	87351	2.00000	2.139
24	Benzoic acid	105	10.924	10.924	(0.957)	33514	4.00000	1.760
26	1,2,4-Trichlorobenzene	180	11.335	11.335	(0.993)	39610	1.00000	1.035
* 27	Naphthalene-d8	136	11.419	11.419	(1.000)	464967	4.00000	
30	Hexachlorobutadiene	225	11.821	11.821	(1.035)	22092	1.00000	1.057
39	Dimethylphthalate	163	14.514	14.514	(0.968)	58818	1.00000	1.074
* 42	Acenaphthene-d10	162	15.002	15.002	(1.000)	234978	4.00000	
50	Diethylphthalate	149	15.960	15.960	(1.064)	87142	1.00000	1.057
54	N-Nitrosodiphenylamine	169	16.339	16.339	(0.907)	75576	1.00000	1.060
57	Hexachlorobenzene	284	17.396	17.396	(0.966)	32023	1.00000	1.056

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
58	Pentachlorophenol	266	17.760	17.760	(0.986)	17138	2.00000	1.602
* 59	Phenanthrene-d10	188	18.015	18.015	(1.000)	431277	4.00000	
$ 66	Terphenyl-d14	244	21.164	21.164	(0.917)	82525	1.00000	1.036
67	Butylbenzylphthalate	149	22.093	22.093	(0.958)	58223	1.00000	1.082
* 69	Chrysene-d12	240	23.069	23.069	(1.000)	358788	4.00000	
* 77	Perylene-d12	264	25.616	25.616	(1.000)	370755	4.00000	
79	Dibenzo(a,h)anthracene	278	28.173	28.173	(1.100)	106823	1.00000	1.028
90	N-Nitrosodimethylamine	74	4.638	4.638	(0.517)	53829	2.00000	2.111

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020714S.D
Lab Smp Id: SLB0106-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	127975	-0.64
27 Naphthalene-d8	469043	234522	938086	464967	-0.87
42 Acenaphthene-d10	233225	116613	466450	234978	0.75
59 Phenanthrene-d10	433858	216929	867716	431277	-0.59
69 Chrysene-d12	361809	180905	723618	358788	-0.83
77 Perylene-d12	380407	190204	760814	370755	-2.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.97	0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.00	0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.00
69 Chrysene-d12	23.06	22.56	23.56	23.07	0.03
77 Perylene-d12	25.62	25.12	26.12	25.62	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020714S.D

Lab ID: SLB0106-ICV1
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 19:58

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b

Instrument: nt10.i Date: 07-FEB-2023 Method: 20230207.b\SIMABN2.m

INITIAL CAL: 07-FEB-2023

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1023020714S.D 07-FEB-2023 19:58

Compound	%D
Benzoic acid	-56.0

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GB00019
Lab File ID:	NT1023020734S.D	Calibration Date:	02/07/2023
Sequence:	SLB0106	Injection Date:	02/08/23
Lab Sample ID:	SLB0106-ICV2	Injection Time:	08:40
Sequence Name:	ABN 1		

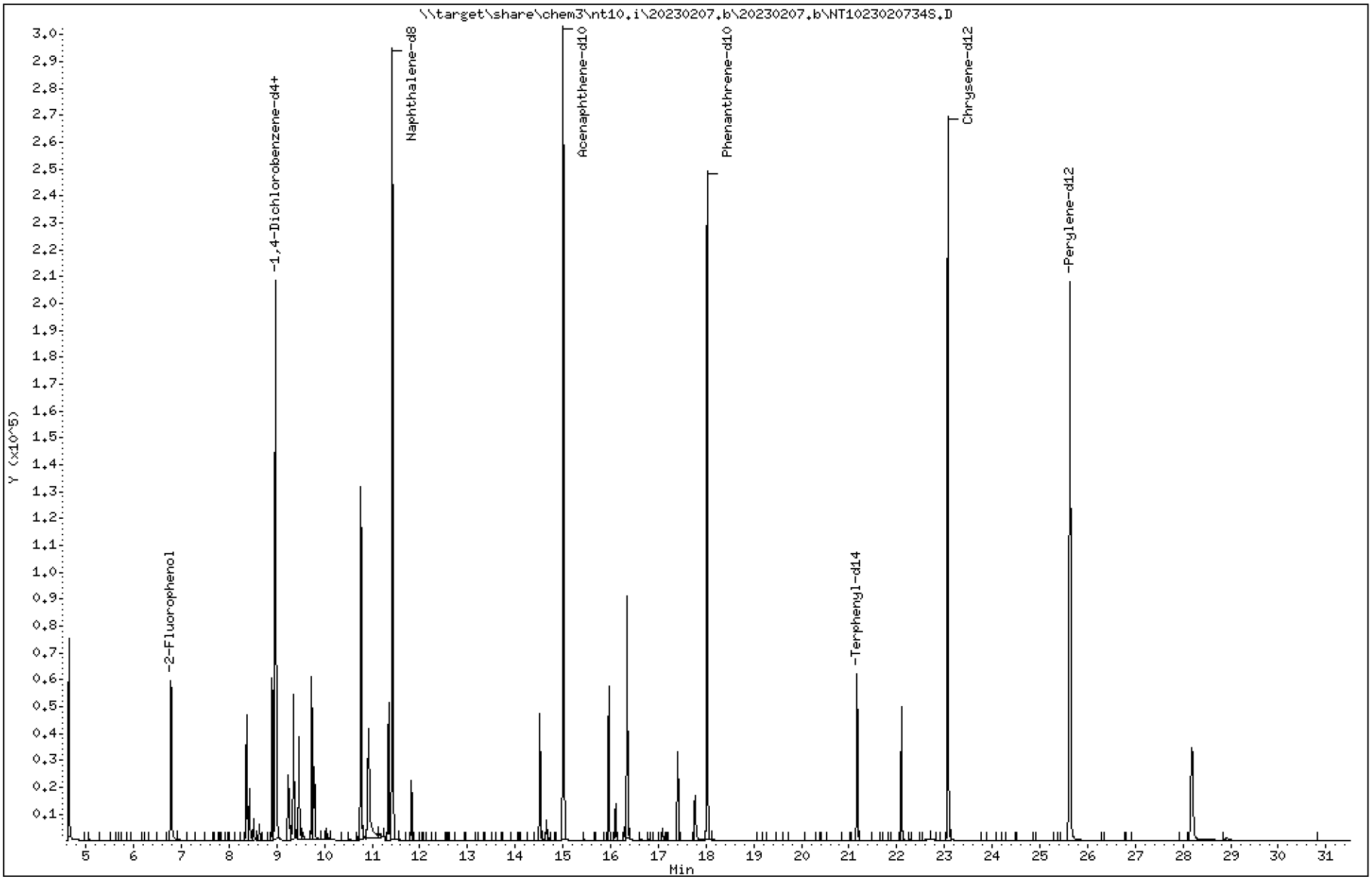
		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
1,4-Dichlorobenzene	A	1.0000	1.0	1.6149400	1.6443900		1.8	+/-20
1,2-Dichlorobenzene	A	1.0000	1.0	1.5761980	1.6155540		2.5	+/-20
Benzyl Alcohol	A	1.0000	1.1	0.8947729	0.9707110		8.5	+/-20
Benzoic acid	A	4.0000	4.3	0.1278126	0.1802510		8.4	+/-20
2,4-Dimethylphenol	A	2.0000	2.2	0.3513679	0.3791414		7.9	+/-20
1,2,4-Trichlorobenzene	A	1.0000	1.0	0.3293471	0.3455		4.9	+/-20
N-Nitrosodiphenylamine	A	1.0000	1.1	0.6610440	0.6969592		5.4	+/-20
Pentachlorophenol	A	2.0000	2.2	0.0758741	0.1094748		9.8	+/-20
2-Fluorophenol	A	1.5000	1.64	1.2163900	1.3319090		9.5	+/-20
p-Terphenyl-d14	A	1.0000	1.12	0.8878533	0.9952966		12.1	+/-20
1,4-Dichlorobenzene-d4	A	4.0000	4.0	30973.3800	1.0000		0.0	
Naphthalene-d8	A	4.0000	4.0	113826.4000	1.0000		0.0	
Acenaphthene-d10	A	4.0000	4.0	56470.7200	1.0000		0.0	
Phenanthrene-d10	A	4.0000	4.0	104263.0000	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	86682.5900	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	90469.2800	1.0000		0.0	

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207348.D
Date : 08-FEB-2023 08:40
Client ID:
Sample Info: SLB0106-ICV2
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: DSD
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020734S.D
Lab Smp Id: SLB0106-ICV2
Inj Date : 08-FEB-2023 08:40 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-ICV2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 13:51 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.777	6.777	(0.755)	61732	1.50000	1.642
	3 Phenol	94	8.369	8.369	(0.933)	62862	1.00000	1.109
	7 1,3-Dichlorobenzene	146	8.902	8.902	(0.992)	52591	1.00000	1.030
*	8 1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	123596	4.00000	
	9 1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	50810	1.00000	1.018
	11 Benzyl alcohol	79	9.236	9.236	(1.029)	29994	1.00000	1.085
	12 1,2-Dichlorobenzene	146	9.353	9.353	(1.042)	49919	1.00000	1.025
	13 2-Methylphenol	108	9.461	9.461	(1.055)	43209	1.00000	1.117
	15 4-Methylphenol	108	9.733	9.733	(1.085)	45442	1.00000	1.152
	16 N-Nitroso-di-n-propylamine	70	9.780	9.780	(1.090)	31807	1.00000	1.129
	22 2,4-Dimethylphenol	107	10.763	10.763	(0.942)	86205	2.00000	2.158
	24 Benzoic acid	105	10.924	10.924	(0.956)	81967	4.00000	4.337
	26 1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	39278	1.00000	1.049
*	27 Naphthalene-d8	136	11.427	11.427	(1.000)	454738	4.00000	
	30 Hexachlorobutadiene	225	11.829	11.829	(1.035)	21216	1.00000	1.038
	39 Dimethylphthalate	163	14.514	14.514	(0.967)	57191	1.00000	1.100
*	42 Acenaphthene-d10	162	15.009	15.009	(1.000)	223117	4.00000	
	50 Diethylphthalate	149	15.960	15.960	(1.063)	86499	1.00000	1.105
	54 N-Nitrosodiphenylamine	169	16.346	16.346	(0.907)	71224	1.00000	1.054
	57 Hexachlorobenzene	284	17.404	17.404	(0.966)	30426	1.00000	1.058

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
58	Pentachlorophenol	266	17.768	17.768	(0.986)	22375	2.00000	2.196
* 59	Phenanthrene-d10	188	18.023	18.023	(1.000)	408770	4.00000	
$ 66	Terphenyl-d14	244	21.164	21.164	(0.917)	84433	1.00000	1.121
67	Butylbenzylphthalate	149	22.101	22.101	(0.958)	58568	1.00000	1.150
* 69	Chrysene-d12	240	23.069	23.069	(1.000)	339328	4.00000	
* 77	Perylene-d12	264	25.631	25.631	(1.000)	382671	4.00000	
79	Dibenzo(a,h)anthracene	278	28.188	28.188	(1.100)	98521	1.00000	0.9186
90	N-Nitrosodimethylamine	74	4.638	4.638	(0.517)	56031	2.00000	2.275

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020734S.D
Lab Smp Id: SLB0106-ICV2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 19:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	127975	63988	255950	123596	-3.42
27 Naphthalene-d8	464967	232484	929934	454738	-2.20
42 Acenaphthene-d10	234978	117489	469956	223117	-5.05
59 Phenanthrene-d10	431277	215639	862554	408770	-5.22
69 Chrysene-d12	358788	179394	717576	339328	-5.42
77 Perylene-d12	370755	185378	741510	382671	3.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	0.08
27 Naphthalene-d8	11.42	10.92	11.92	11.43	0.07
42 Acenaphthene-d10	15.00	14.50	15.50	15.01	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.04
69 Chrysene-d12	23.07	22.57	23.57	23.07	-0.00
77 Perylene-d12	25.62	25.12	26.12	25.63	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020734S.D

Lab ID: SLB0106-ICV2
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 08:40

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b

Instrument: nt10.i Date: 08-FEB-2023 Method: 20230207.b\SIMABN2.m

INITIAL CAL: 07-FEB-2023

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1023020734S.D 08-FEB-2023 08:40

Compound	%D
NO Q-FLAGS	

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GB00019
Lab File ID:	NT1023020750S.D	Calibration Date:	02/07/2023
Sequence:	SLB0106	Injection Date:	02/08/23
Lab Sample ID:	SLB0106-ICV3	Injection Time:	18:52
Sequence Name:	ABN 1		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
1,4-Dichlorobenzene	A	1.0000	1.0	1.6149400	1.6302600		0.9	+/-20	
1,2-Dichlorobenzene	A	1.0000	1.0	1.5761980	1.5974090		1.3	+/-20	
Benzyl Alcohol	A	1.0000	1.3	0.8947729	1.1358240		26.9	+/-20	*
Benzoic acid	A	4.0000	4.1	0.1278126	0.1711805		3.1	+/-20	
2,4-Dimethylphenol	A	2.0000	2.2	0.3513679	0.3859122		9.9	+/-20	
1,2,4-Trichlorobenzene	A	1.0000	1.1	0.3293471	0.3475833		5.5	+/-20	
N-Nitrosodiphenylamine	A	1.0000	1.0	0.6610440	0.6565842		-0.7	+/-20	
Pentachlorophenol	A	2.0000	2.0	0.0758741	0.1014981		1.9	+/-20	
2-Fluorophenol	A	1.5000	1.68	1.2163900	1.3582290		11.7	+/-20	
p-Terphenyl-d14	A	1.0000	1.20	0.8878533	1.0635200		19.8	+/-20	
1,4-Dichlorobenzene-d4	A	4.0000	4.0	30973.3800	1.0000		0.0		
Naphthalene-d8	A	4.0000	4.0	113826.4000	1.0000		0.0		
Acenaphthene-d10	A	4.0000	4.0	56470.7200	1.0000		0.0		
Phenanthrene-d10	A	4.0000	4.0	104263.0000	1.0000		0.0		
Chrysene-d12	A	4.0000	4.0	86682.5900	1.0000		0.0		
Perylene-d12	A	4.0000	4.0	90469.2800	1.0000		0.0		

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207505.D

Page 1

Date : 08-FEB-2023 18:52

Client ID:

Instrument: nt10.i

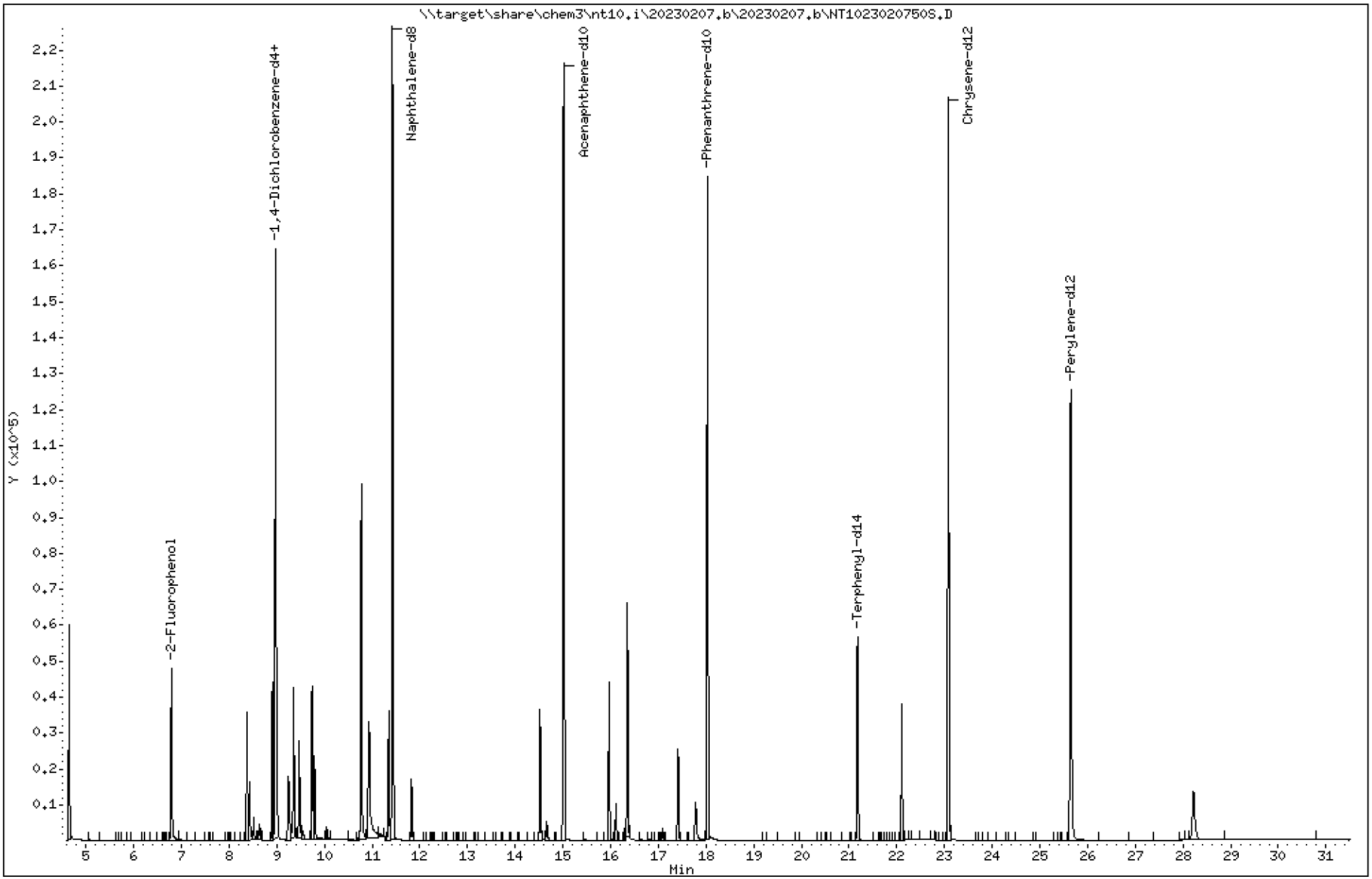
Sample Info: SLB0106-ICV3

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020750S.D
Lab Smp Id: SLB0106-ICV3
Inj Date : 08-FEB-2023 18:52 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-ICV3
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 10-Feb-2023 07:01 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	6.785	6.785	(0.756)	48746	1.50000	1.675
3	Phenol	94	8.369	8.369	(0.933)	47417	1.00000	1.080
7	1,3-Dichlorobenzene	146	8.910	8.910	(0.993)	39873	1.00000	1.009
* 8	1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	95705	4.00000	
9	1,4-Dichlorobenzene	146	9.003	9.003	(1.003)	39006	1.00000	1.009
11	Benzyl alcohol	79	9.244	9.244	(1.030)	27176	1.00000	1.269
12	1,2-Dichlorobenzene	146	9.353	9.353	(1.042)	38220	1.00000	1.013
13	2-Methylphenol	108	9.469	9.469	(1.055)	33909	1.00000	1.132
15	4-Methylphenol	108	9.741	9.741	(1.086)	35339	1.00000	1.156
16	N-Nitroso-di-n-propylamine	70	9.787	9.787	(1.091)	25142	1.00000	1.153
22	2,4-Dimethylphenol	107	10.771	10.771	(0.943)	68133	2.00000	2.197
24	Benzoic acid	105	10.932	10.932	(0.957)	60444	4.00000	4.124
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	30683	1.00000	1.055
* 27	Naphthalene-d8	136	11.427	11.427	(1.000)	353101	4.00000	
30	Hexachlorobutadiene	225	11.829	11.829	(1.035)	16325	1.00000	1.028
39	Dimethylphthalate	163	14.522	14.522	(0.967)	44714	1.00000	1.123
* 42	Acenaphthene-d10	162	15.017	15.017	(1.000)	170881	4.00000	
50	Diethylphthalate	149	15.968	15.968	(1.063)	68228	1.00000	1.138
54	N-Nitrosodiphenylamine	169	16.354	16.354	(0.907)	52835	1.00000	0.9933
57	Hexachlorobenzene	284	17.411	17.411	(0.966)	23628	1.00000	1.044

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
58	Pentachlorophenol	266	17.783	17.783	(0.986)	16335	2.00000	2.038
* 59	Phenanthrene-d10	188	18.031	18.031	(1.000)	321878	4.00000	
$ 66	Terphenyl-d14	244	21.180	21.180	(0.917)	74440	1.00000	1.198
67	Butylbenzylphthalate	149	22.101	22.101	(0.957)	48036	1.00000	1.144
* 69	Chrysene-d12	240	23.084	23.084	(1.000)	279976	4.00000	
* 77	Perylene-d12	264	25.647	25.647	(1.000)	238134	4.00000	
79	Dibenzo(a,h)anthracene	278	28.219	28.219	(1.100)	45552	1.00000	0.6825
90	N-Nitrosodimethylamine	74	4.646	4.646	(0.518)	44034	2.00000	2.309

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020750S.D
Lab Smp Id: SLB0106-ICV3
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 08:40
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	123596	61798	247192	95705	-22.57
27 Naphthalene-d8	454738	227369	909476	353101	-22.35
42 Acenaphthene-d10	223117	111559	446234	170881	-23.41
59 Phenanthrene-d10	408770	204385	817540	321878	-21.26
69 Chrysene-d12	339328	169664	678656	279976	-17.49
77 Perylene-d12	382671	191336	765342	238134	-37.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	-0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	-0.00
42 Acenaphthene-d10	15.01	14.51	15.51	15.02	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.03	0.04
69 Chrysene-d12	23.07	22.57	23.57	23.08	0.07
77 Perylene-d12	25.63	25.13	26.13	25.65	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020750S.D

Lab ID: SLB0106-ICV3
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   08-FEB-2023 18:52

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b

Instrument: nt10.i Date: 08-FEB-2023 Method: 20230207.b\SIMABN2.m

INITIAL CAL: 07-FEB-2023

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1023020750S.D 08-FEB-2023 18:52

Compound	%D
Benzyl alcohol	26.9
Dibenzo(a,h)anthracene	-31.7

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GB00019
Lab File ID:	NT1023020760S.D	Calibration Date:	02/07/2023
Sequence:	SLB0106	Injection Date:	02/09/23
Lab Sample ID:	SLB0106-CCV1	Injection Time:	01:13
Sequence Name:	ABN 1		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
1,4-Dichlorobenzene	A	1.0000	1.0	1.6149400	1.6340290		1.2	+/-50
1,2-Dichlorobenzene	A	1.0000	1.0	1.5761980	1.6069780		2.0	+/-50
Benzyl Alcohol	A	1.0000	1.2	0.8947729	1.0809470		20.8	+/-50
Benzoic acid	A	4.0000	3.6	0.1278126	0.1475239		-10.9	+/-50
2,4-Dimethylphenol	A	2.0000	2.2	0.3513679	0.3921977		11.6	+/-50
1,2,4-Trichlorobenzene	A	1.0000	1.1	0.3293471	0.3501865		6.3	+/-50
N-Nitrosodiphenylamine	A	1.0000	1.0	0.6610440	0.6757136		2.2	+/-50
Pentachlorophenol	A	2.0000	1.9	0.0758741	0.0925768		-6.9	+/-50
2-Fluorophenol	A	1.5000	1.64	1.2163900	1.3284150		9.2	+/-50
p-Terphenyl-d14	A	1.0000	1.15	0.8878533	1.0231550		15.2	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207608.D

Page 1

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

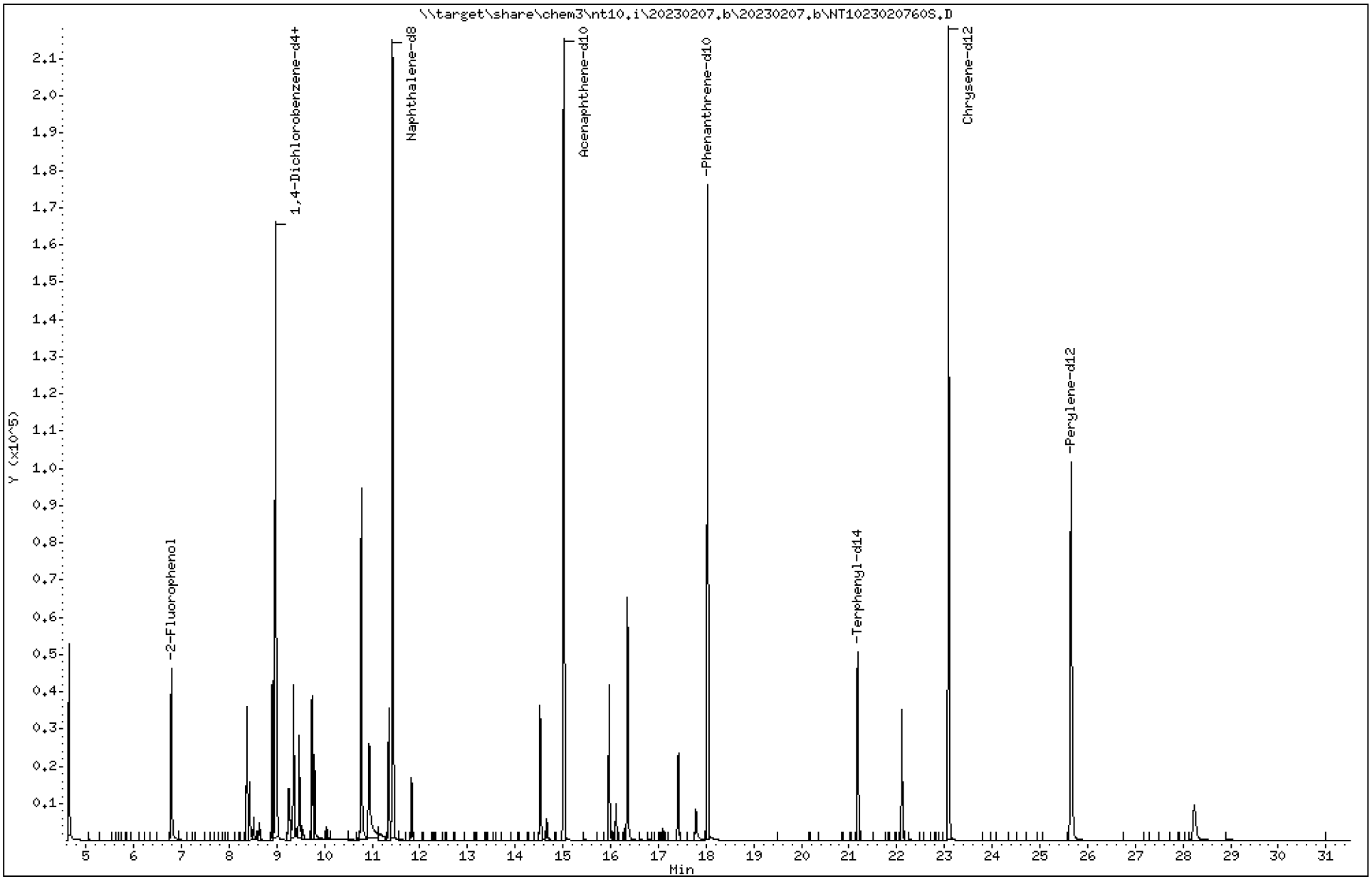
Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

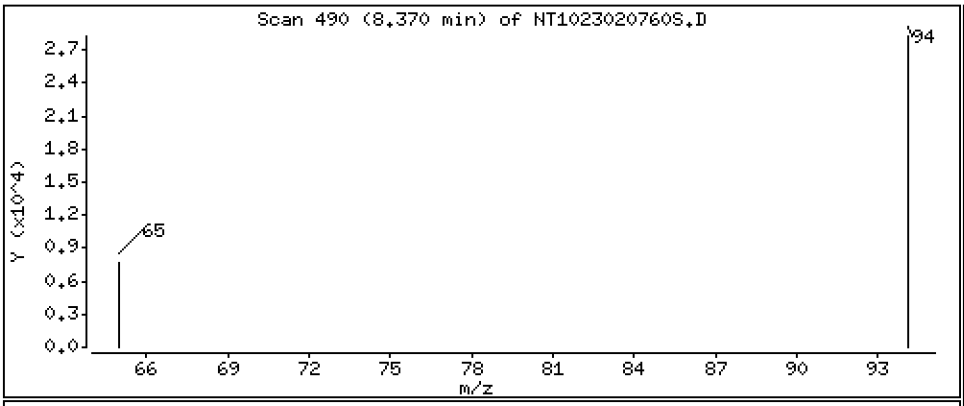
Operator: DSD

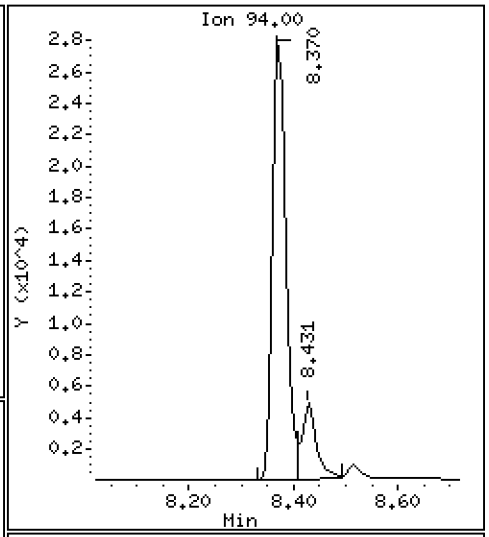
Column phase: ZB-5msi

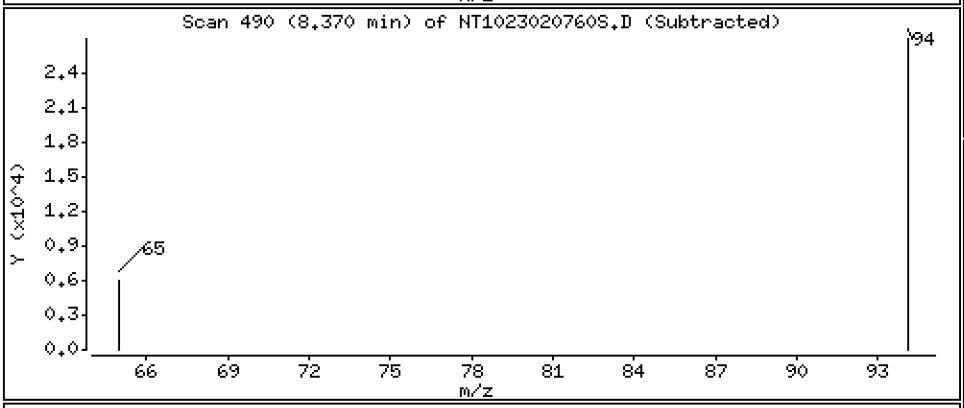
Column diameter: 0.25

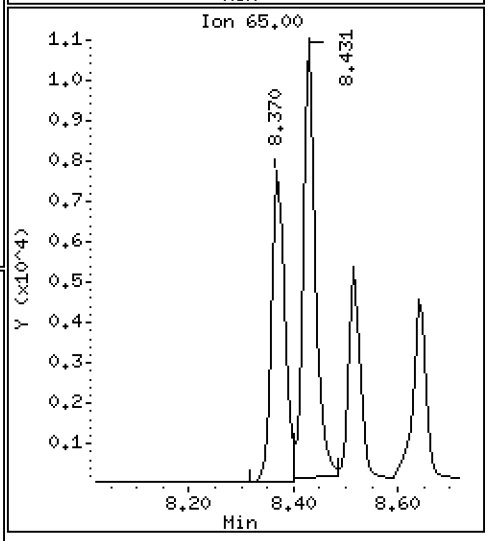
3 Phenol

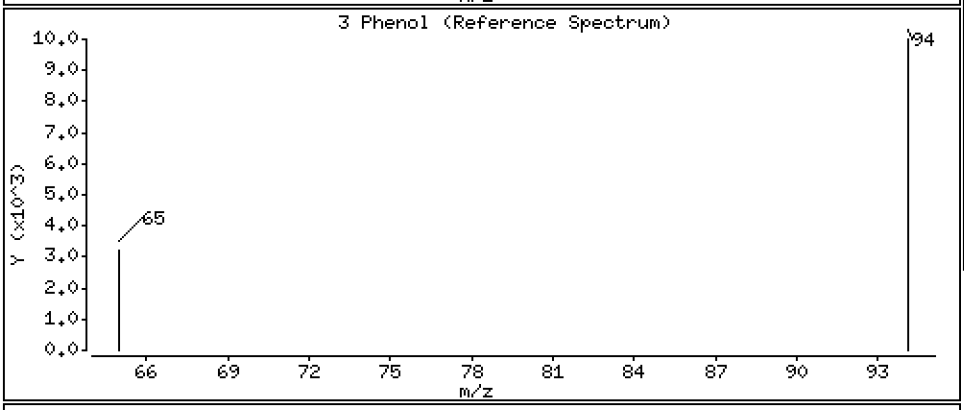
Concentration: 1.078 ug/L

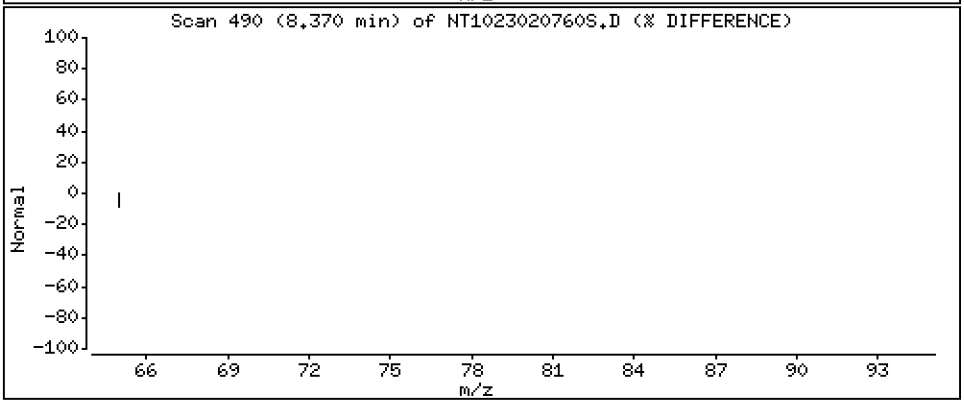












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 60S.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

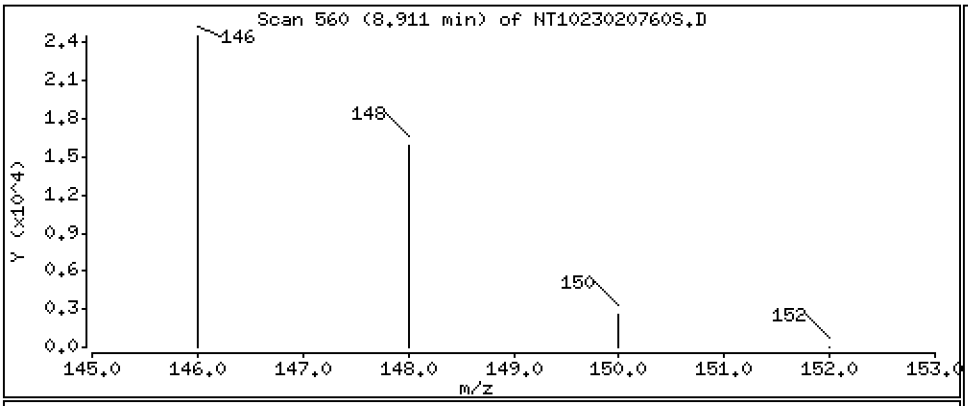
Operator: DSD

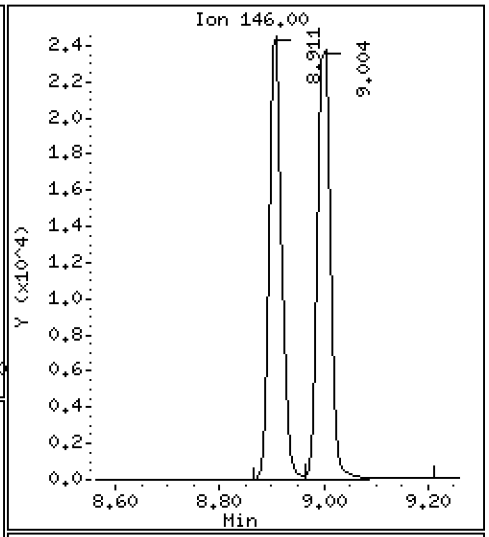
Column phase: ZB-5msi

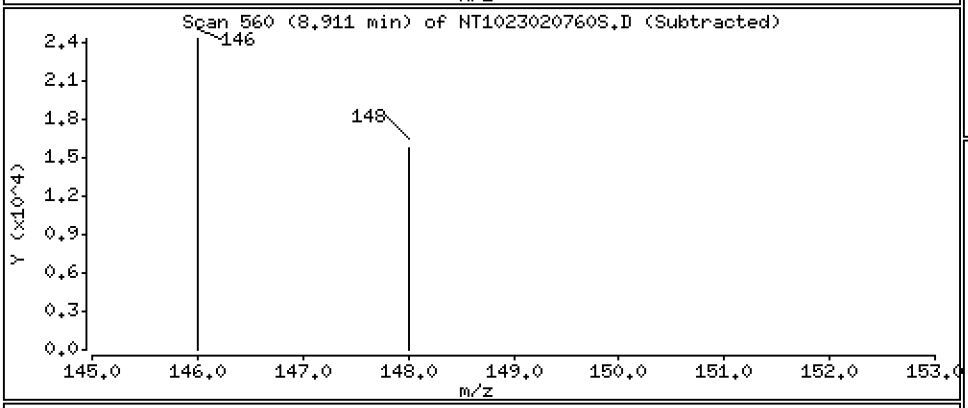
Column diameter: 0.25

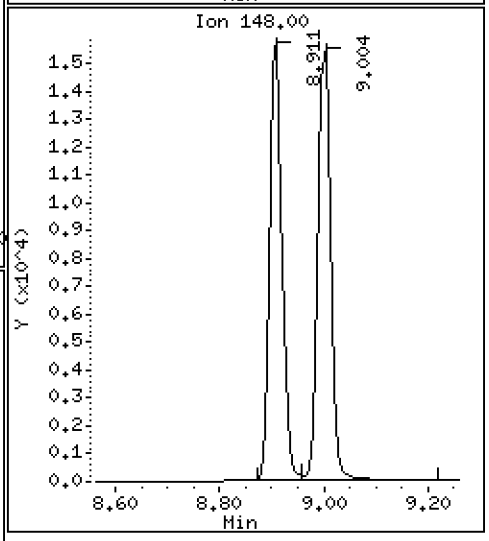
7 1,3-Dichlorobenzene

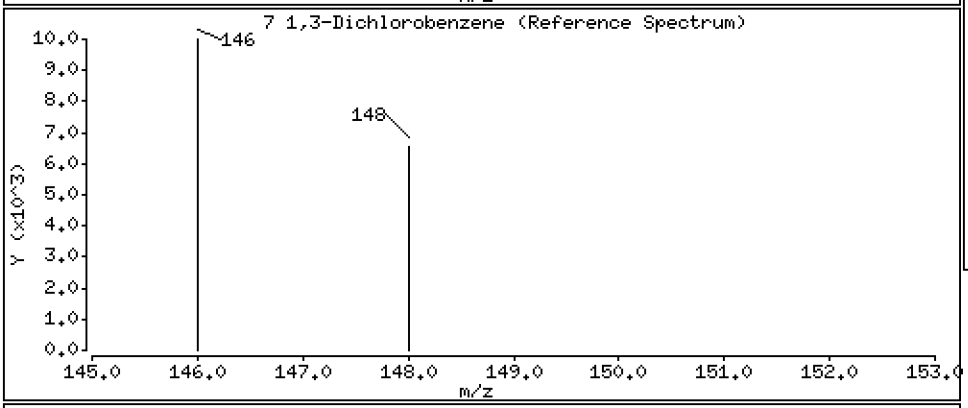
Concentration: 1.021 ug/L

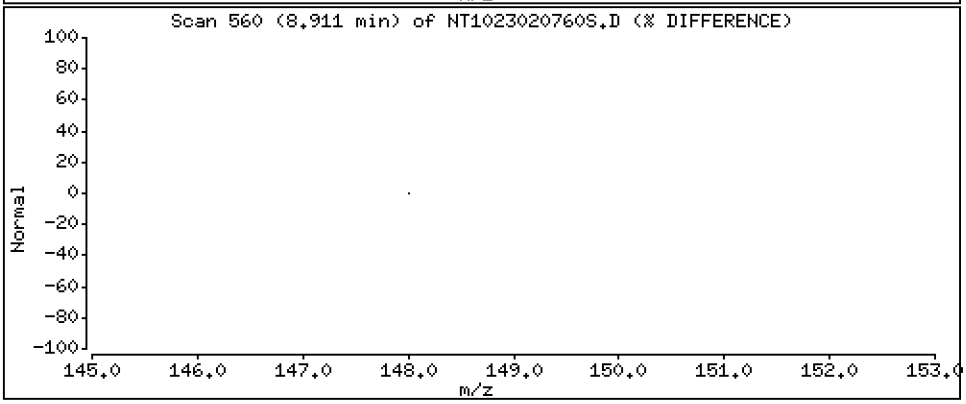












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 60S.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

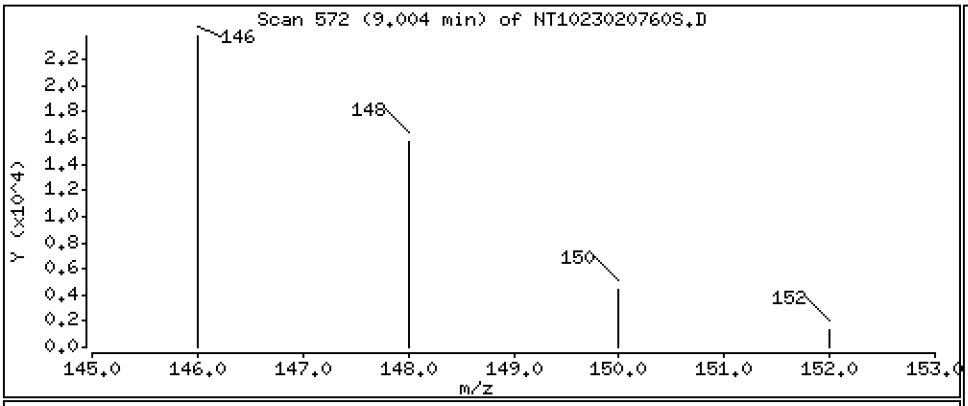
Operator: DSD

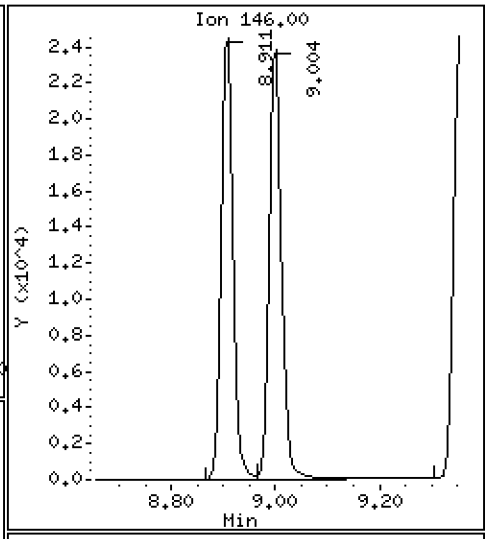
Column phase: ZB-5msi

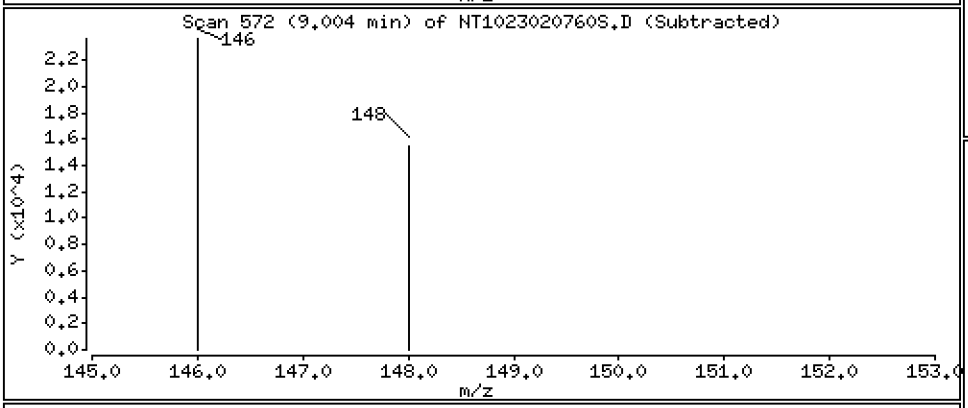
Column diameter: 0.25

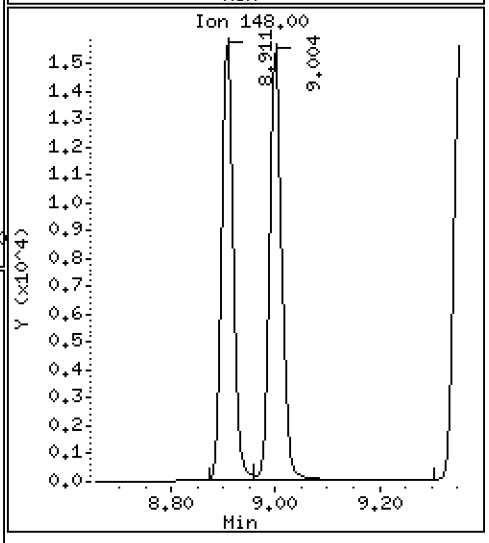
9 1,4-Dichlorobenzene

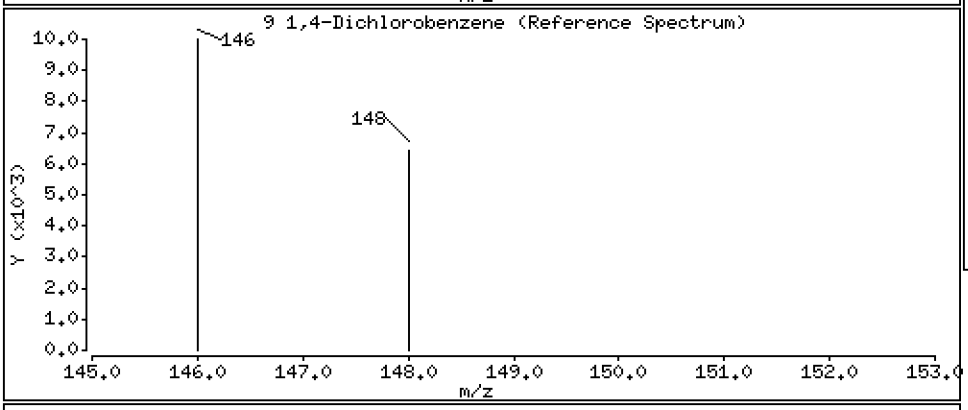
Concentration: 1.012 ug/L

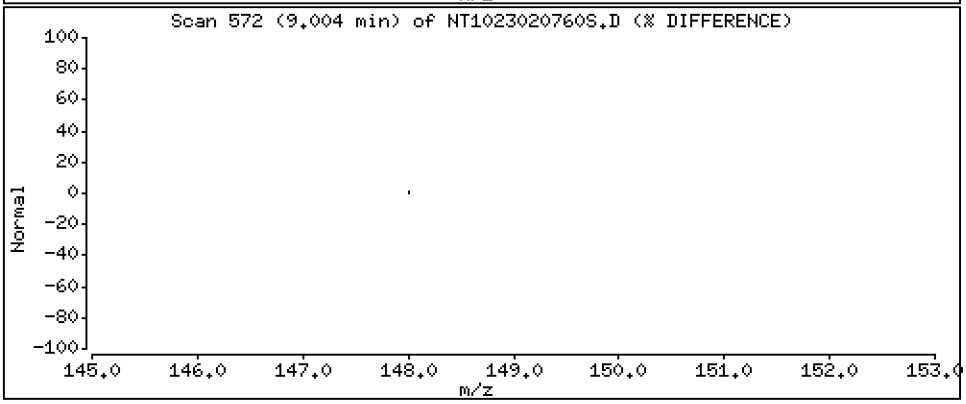












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207605.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

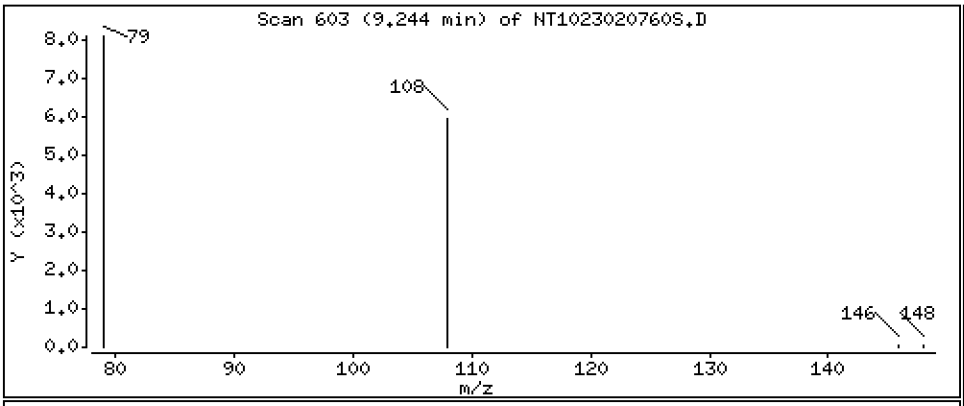
Operator: DSD

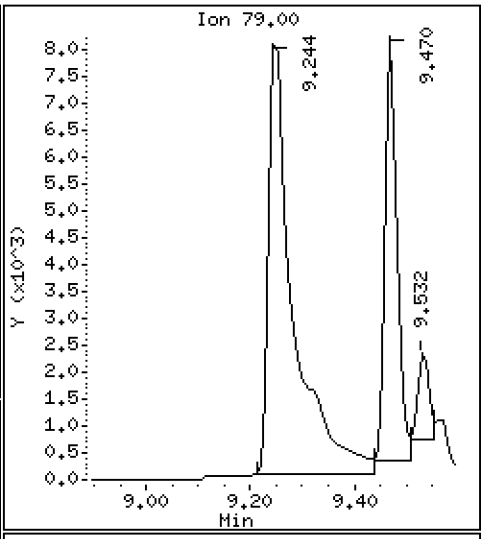
Column phase: ZB-5msi

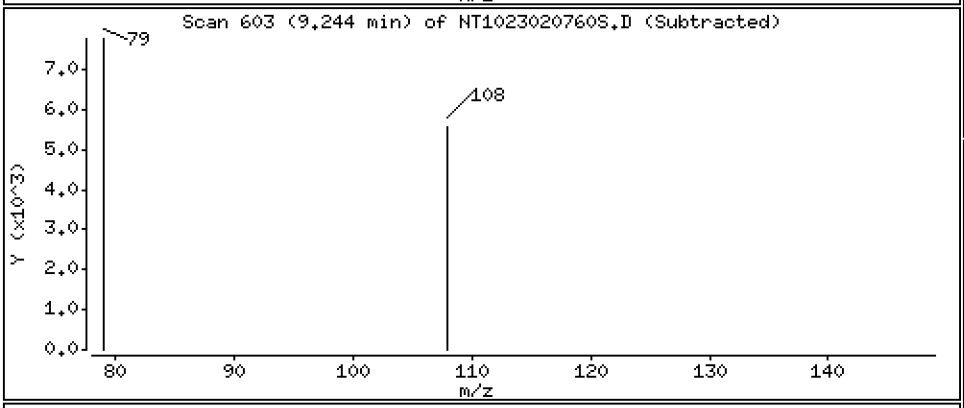
Column diameter: 0.25

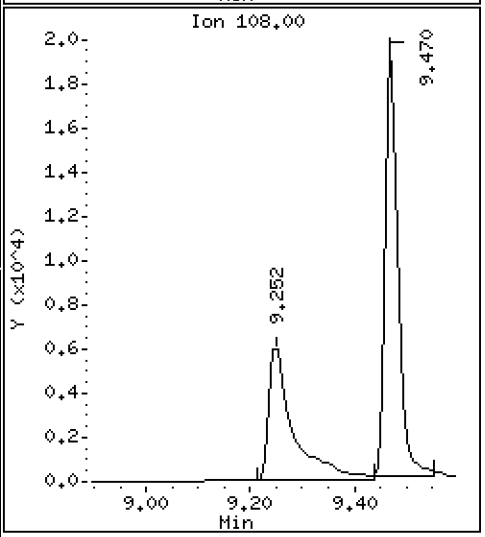
11 Benzyl alcohol

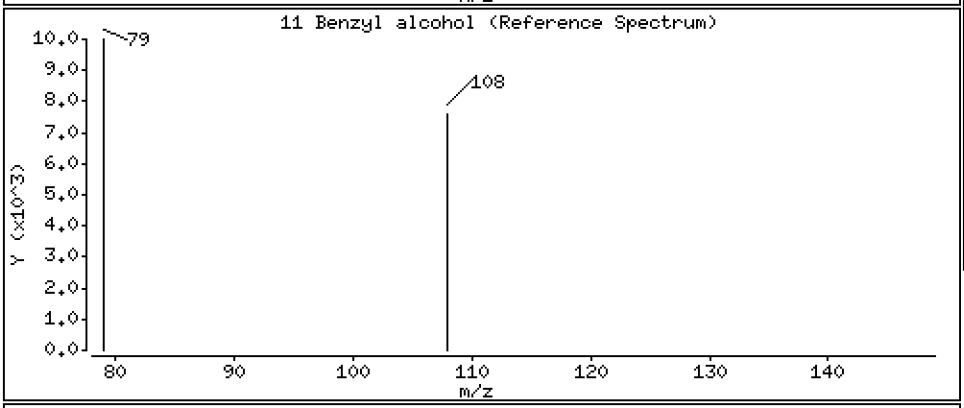
Concentration: 1.208 ug/L

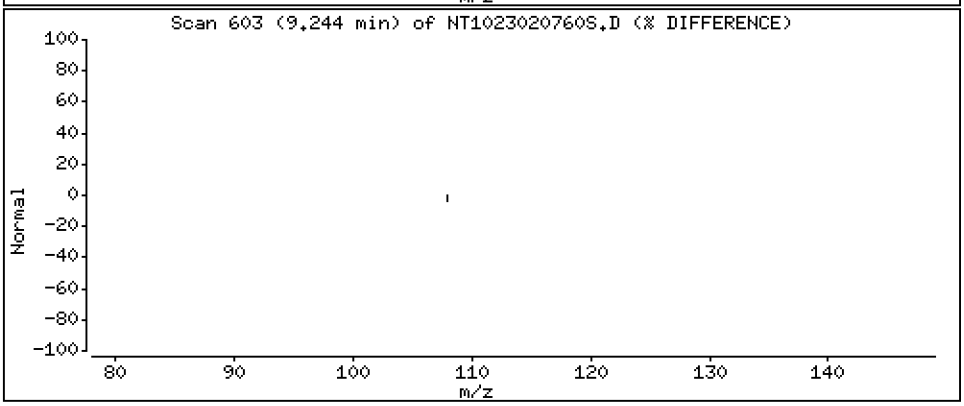












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207605.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

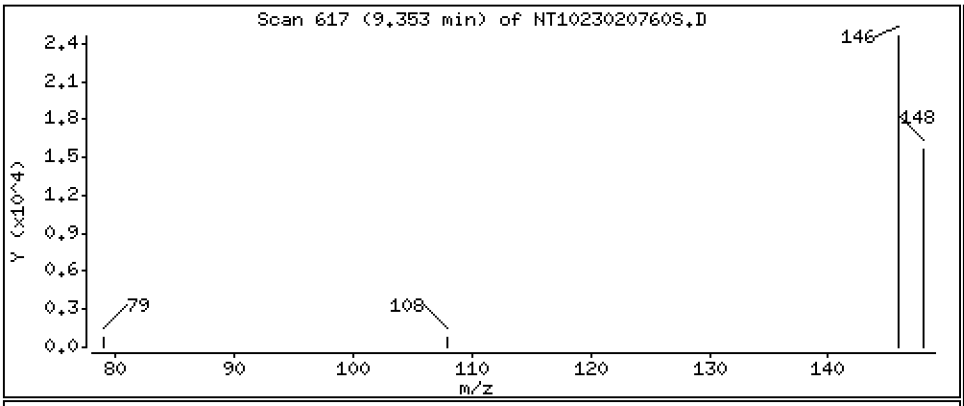
Operator: DSD

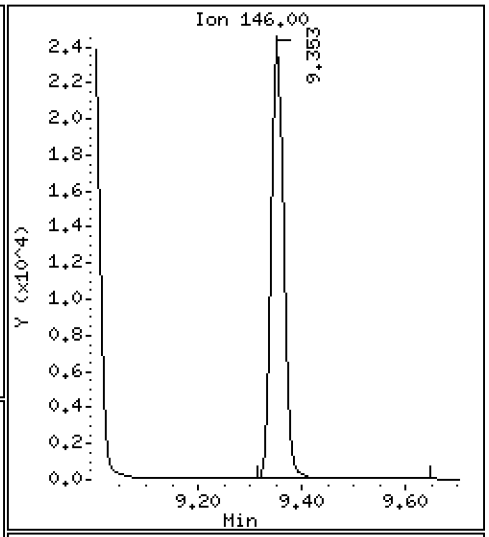
Column phase: ZB-5msi

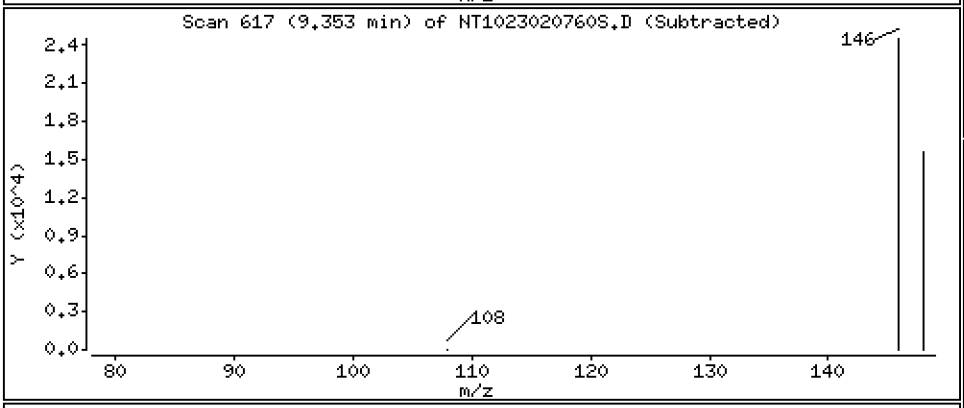
Column diameter: 0.25

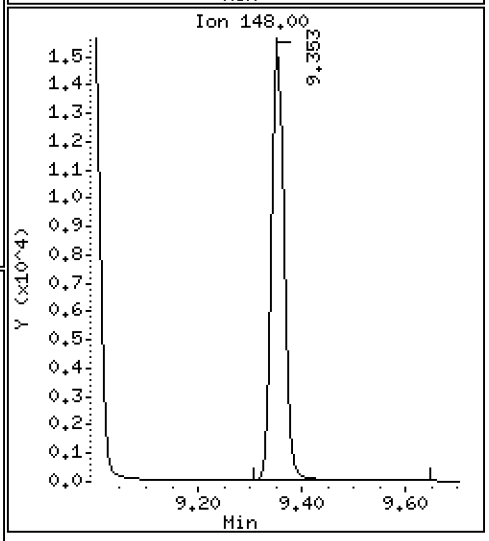
12 1,2-Dichlorobenzene

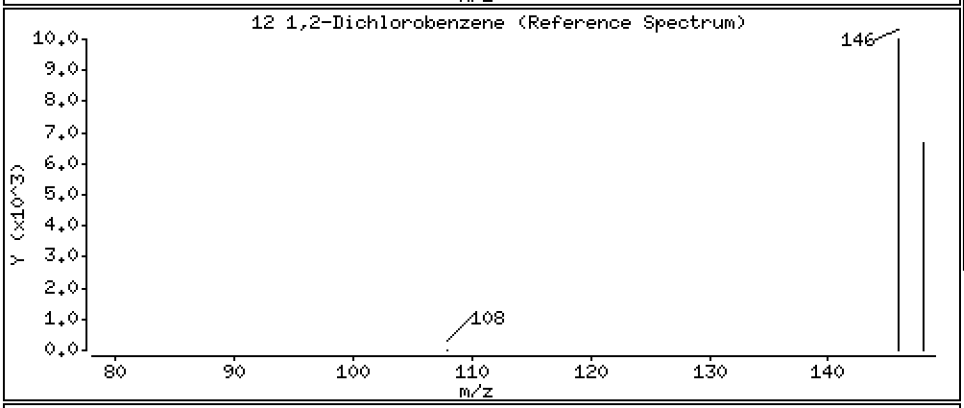
Concentration: 1.020 ug/L

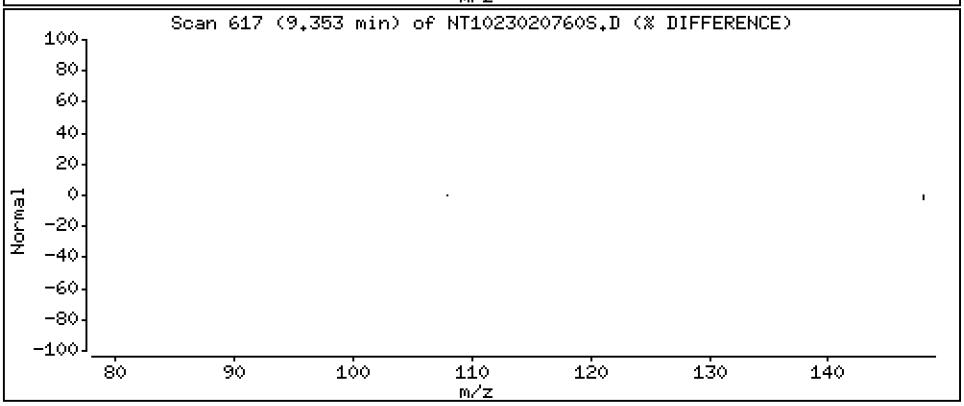












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207605.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

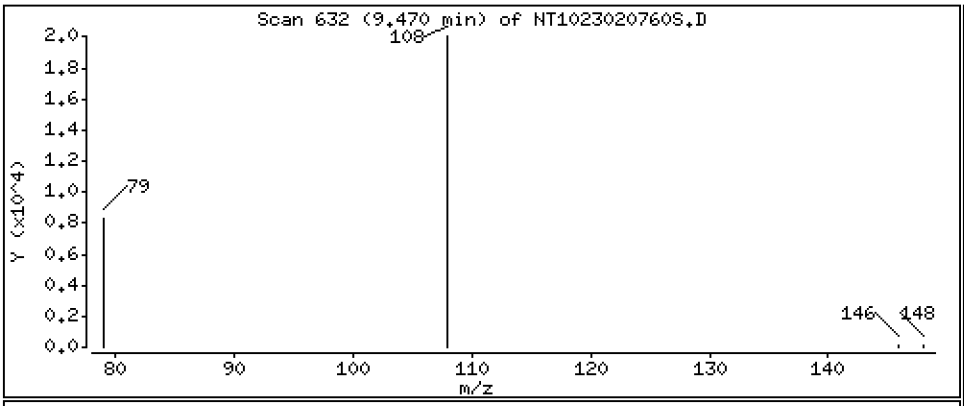
Operator: DSD

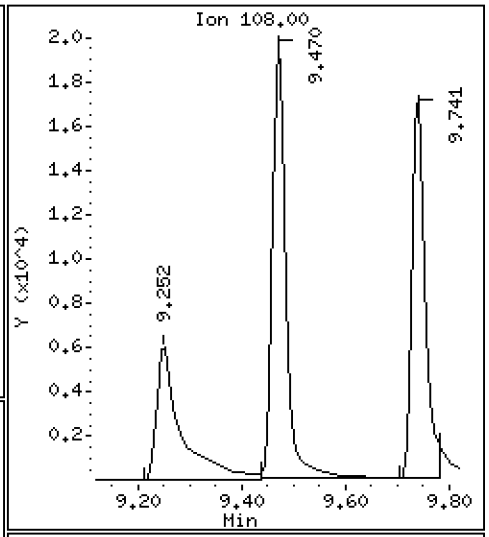
Column phase: ZB-5msi

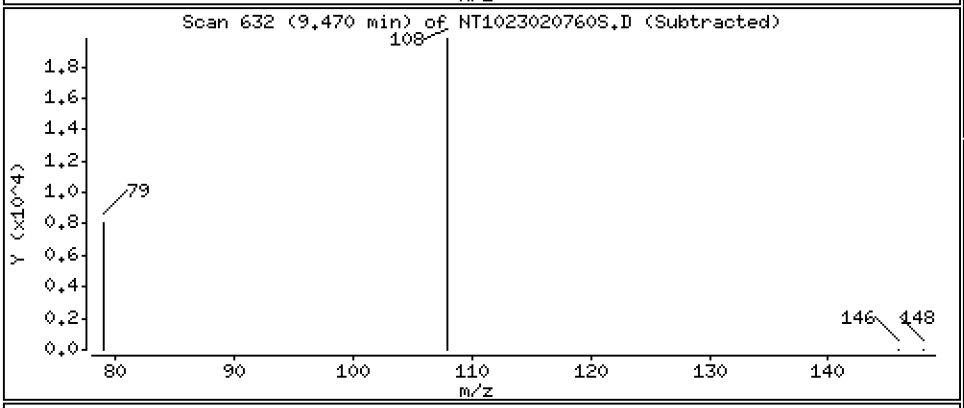
Column diameter: 0.25

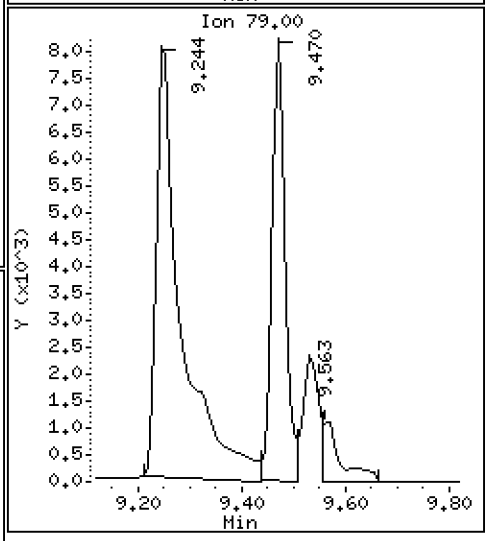
13 2-Methylphenol

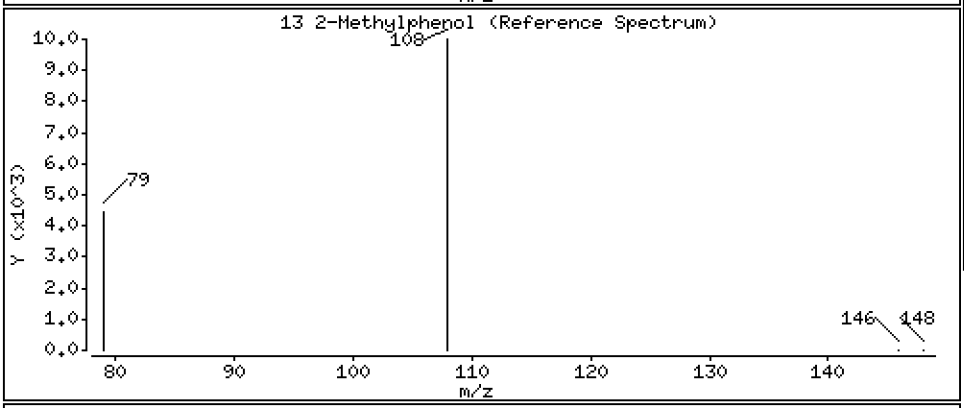
Concentration: 1.129 ug/L

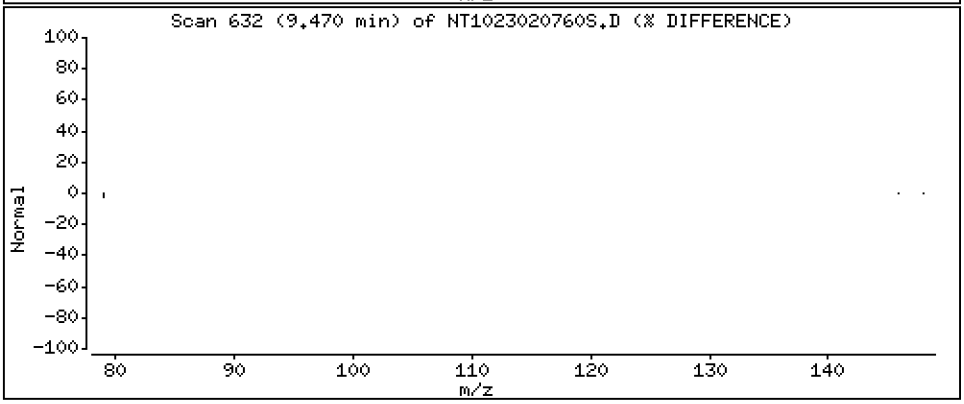












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207605.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

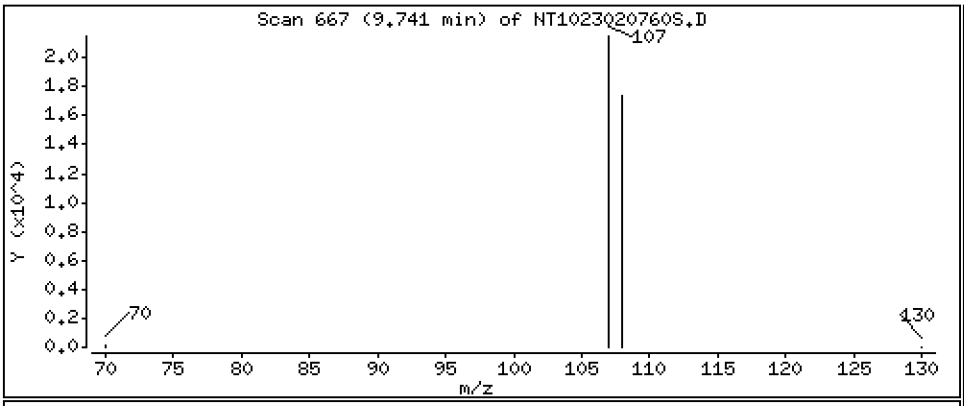
Operator: DSD

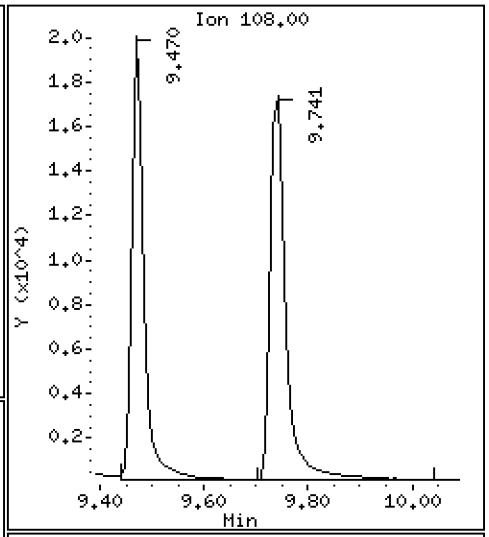
Column phase: ZB-5msi

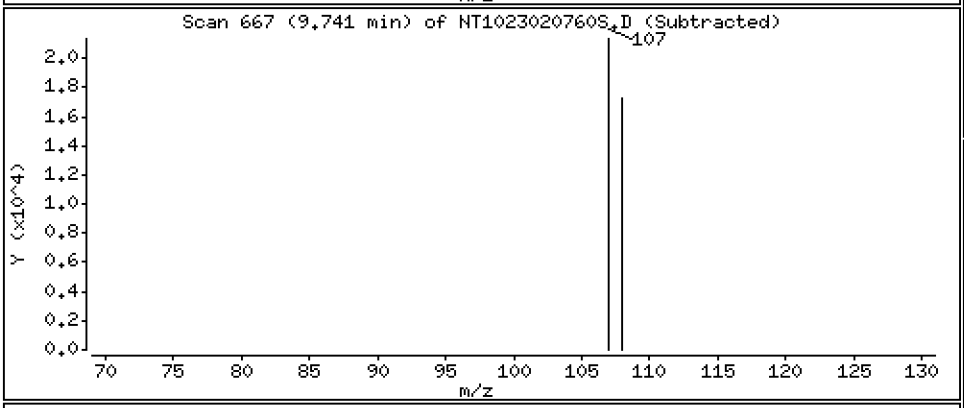
Column diameter: 0.25

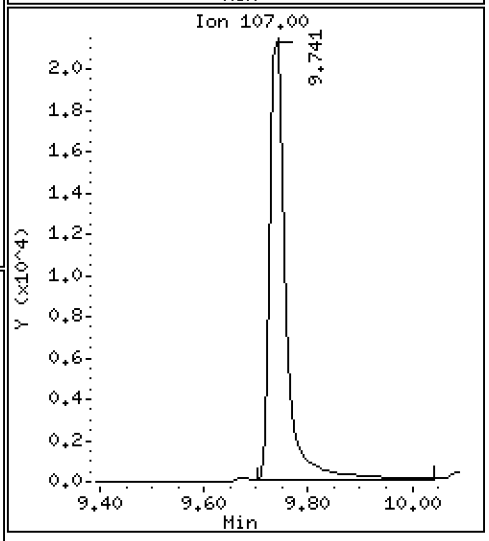
15 4-Methylphenol

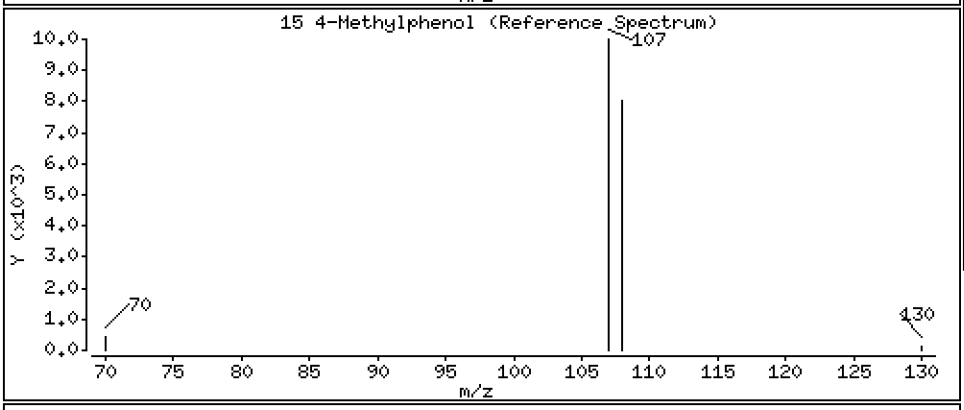
Concentration: 1.131 ug/L

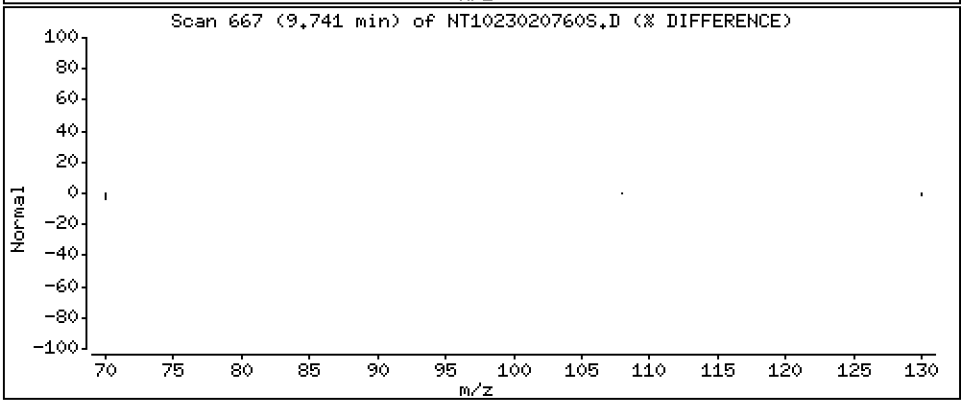












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207605.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

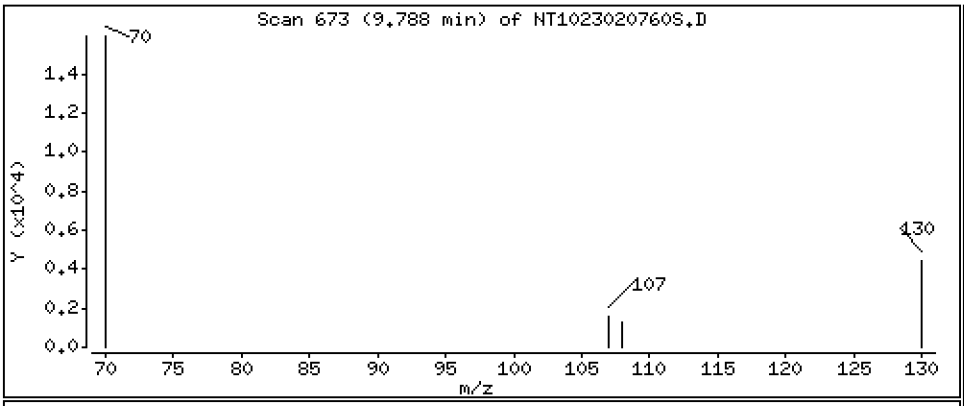
Operator: DSD

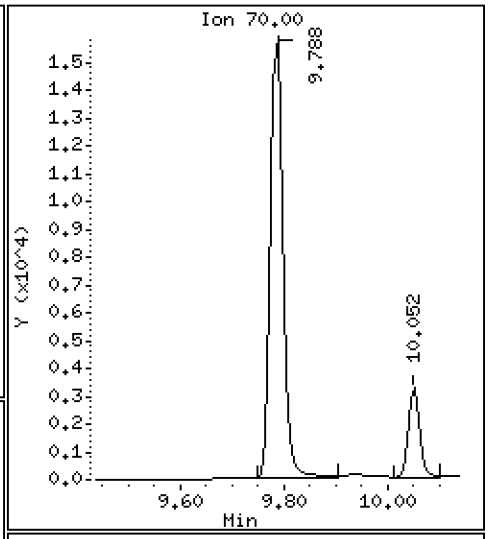
Column phase: ZB-5msi

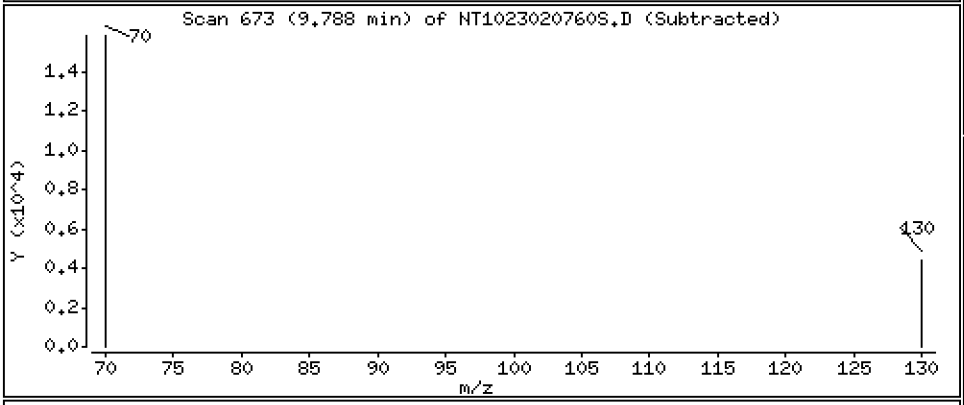
Column diameter: 0.25

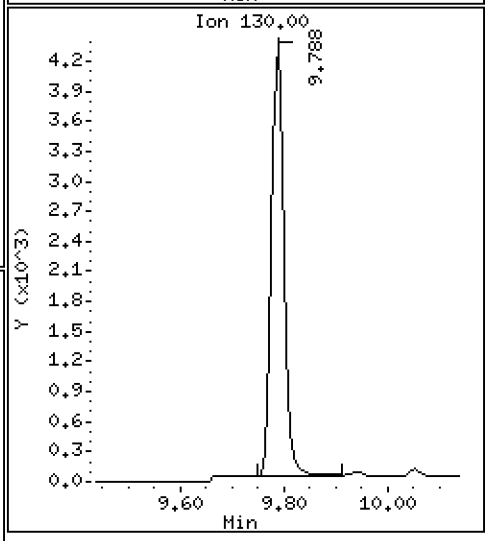
16 N-Nitroso-di-n-propylamine

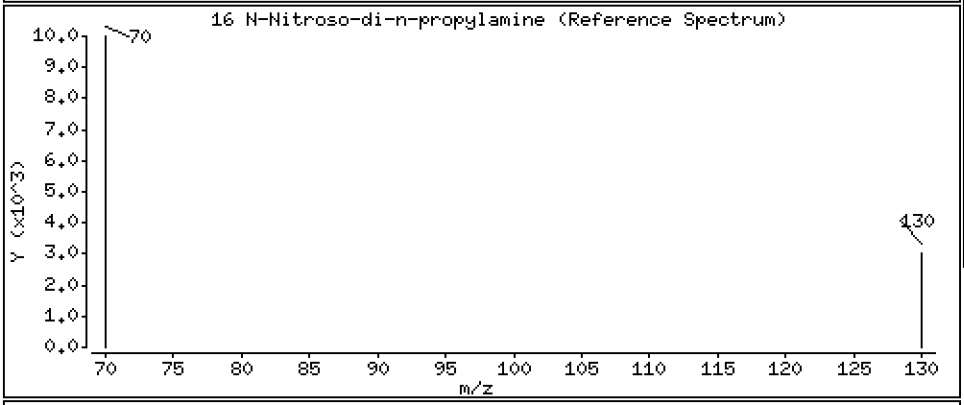
Concentration: 1.154 ug/L

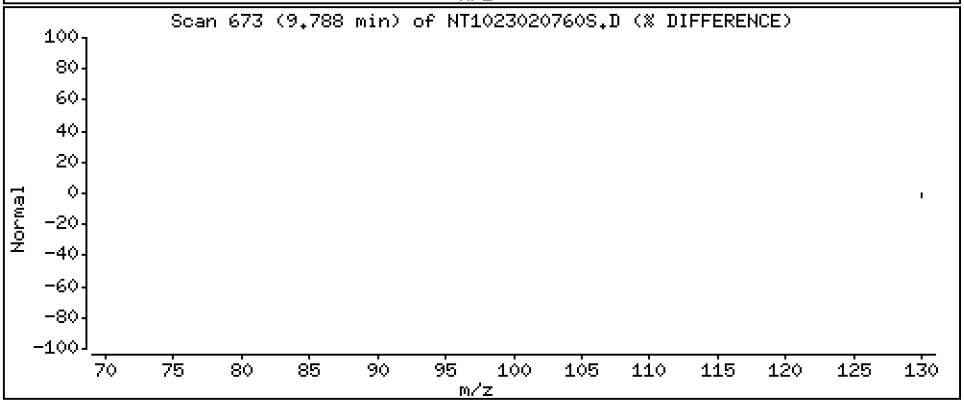












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207605.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

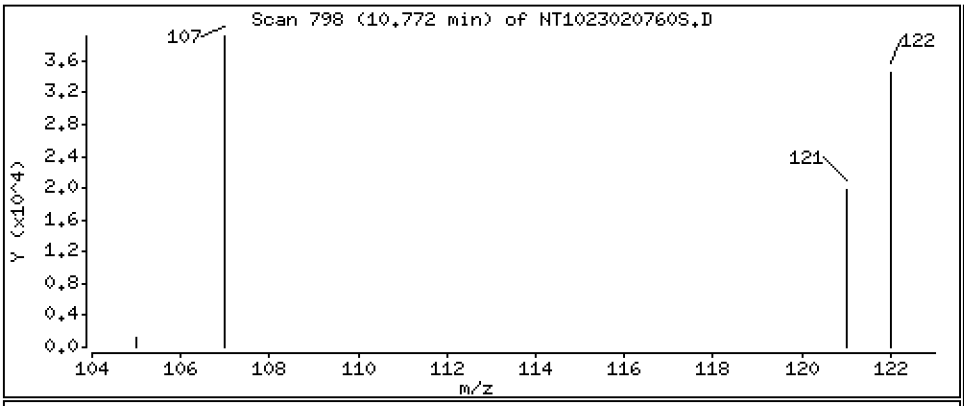
Operator: DSD

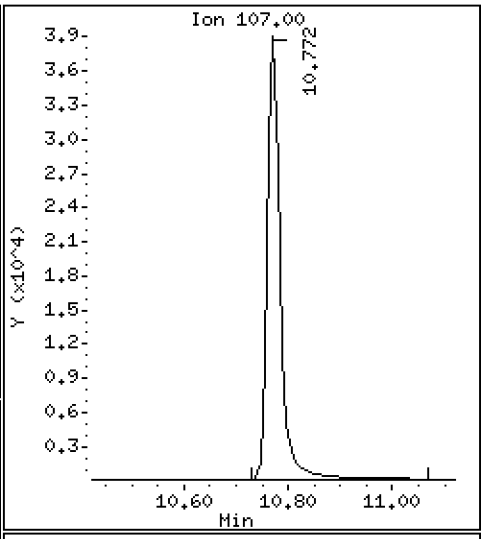
Column phase: ZB-5msi

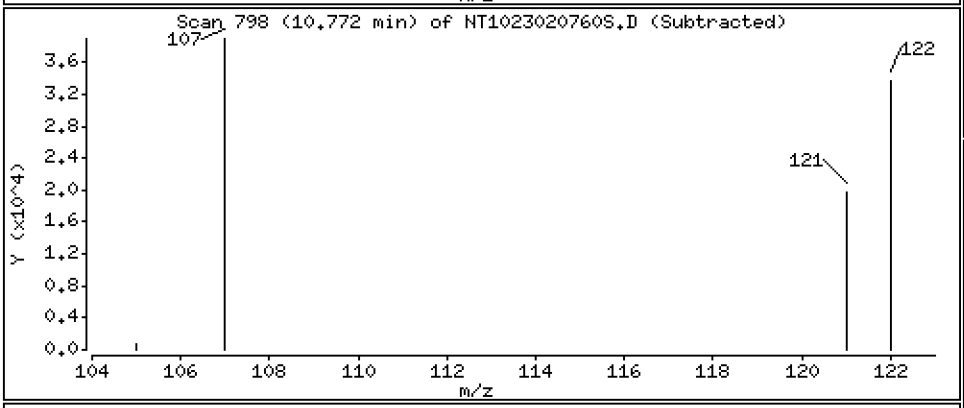
Column diameter: 0.25

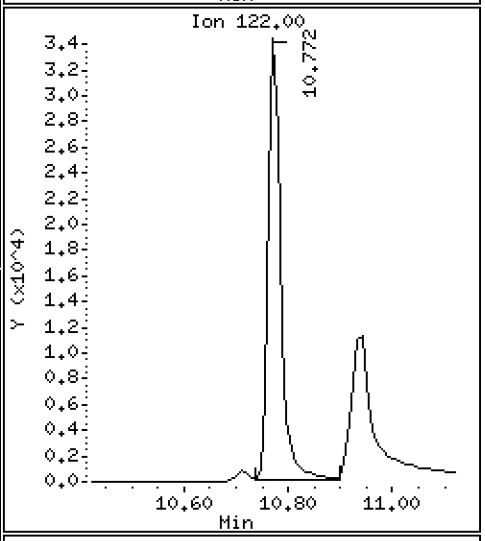
22 2,4-Dimethylphenol

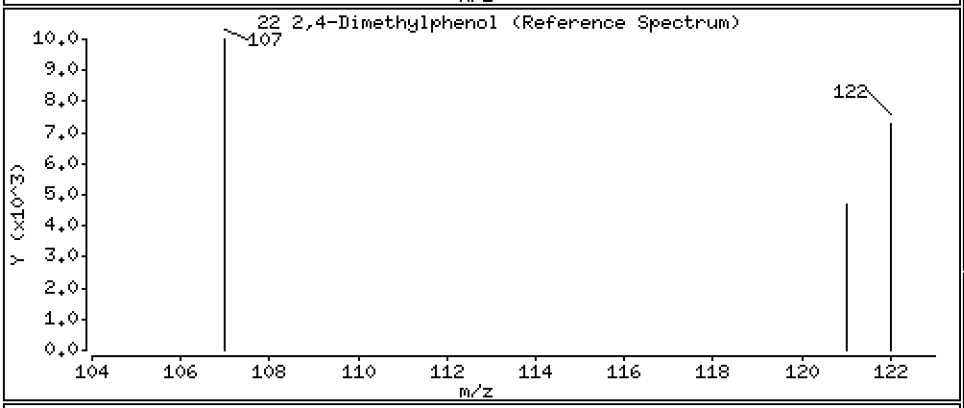
Concentration: 2.232 ug/L

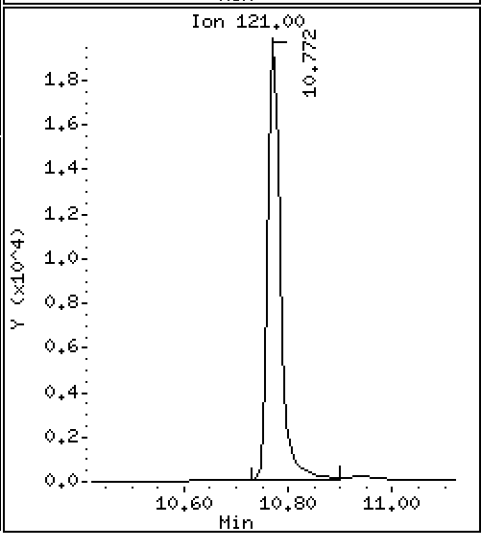


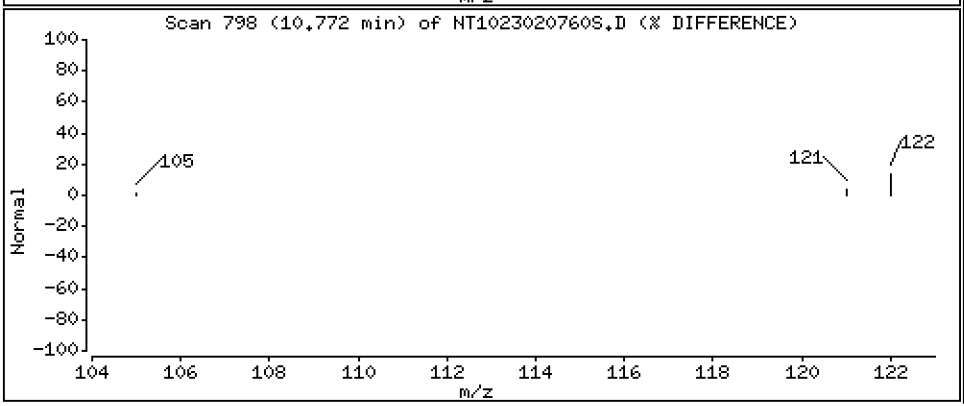












Date : 09-FEB-2023 01:13

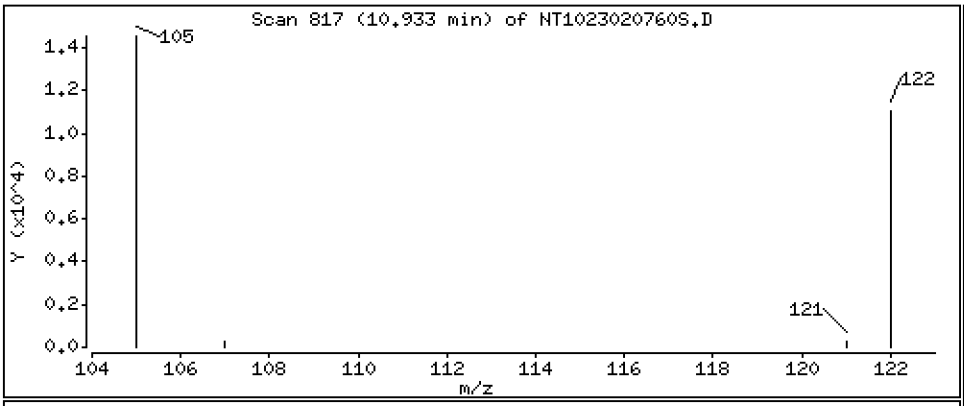
Client ID: Instrument: nt10.i

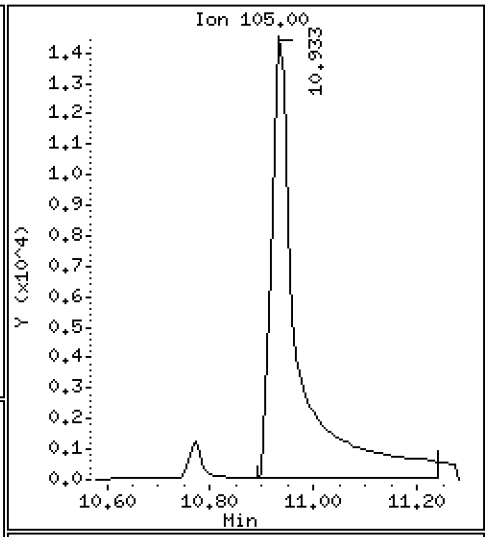
Sample Info: SLB0106-CCV1

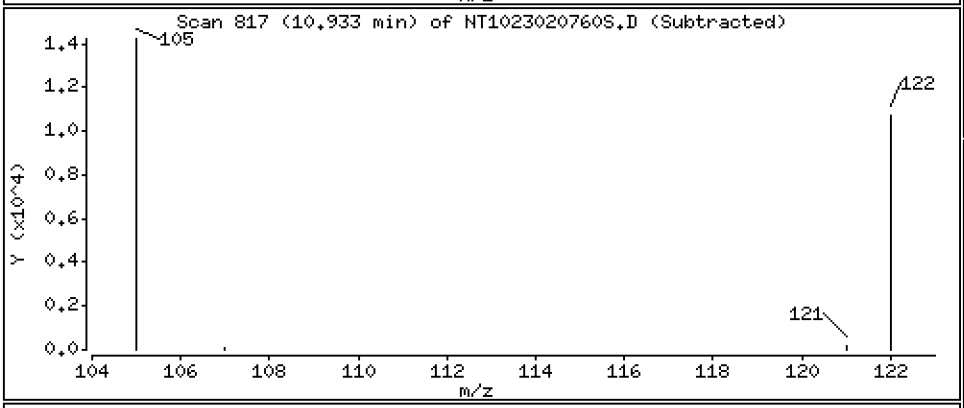
Volume Injected (uL): 1.0 Operator: DSD

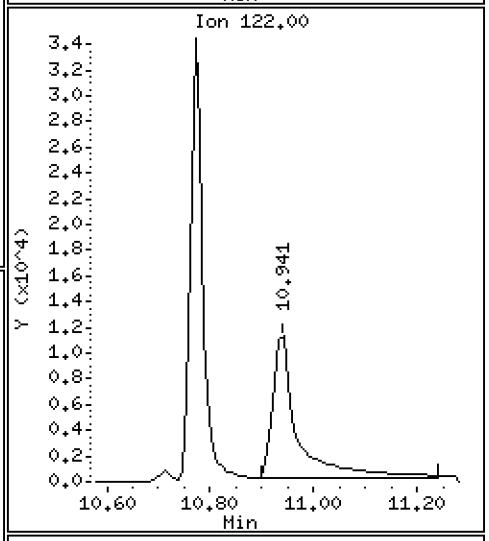
Column phase: ZB-5msi Column diameter: 0.25

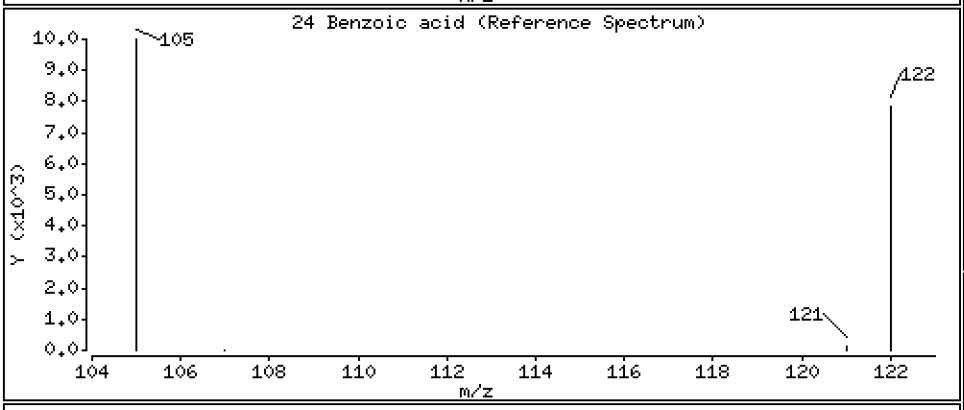
24 Benzoic acid Concentration: 3.565 ug/L

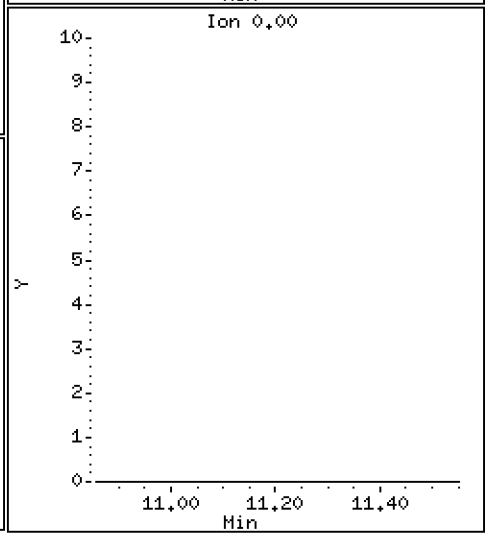


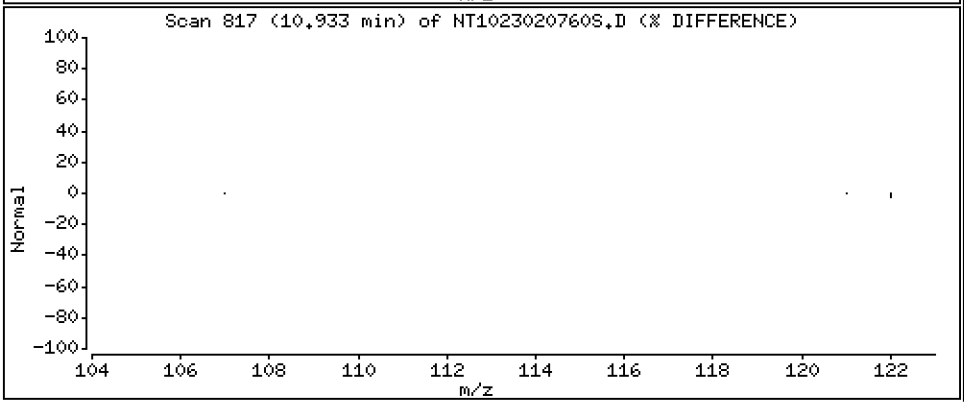












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020760S.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

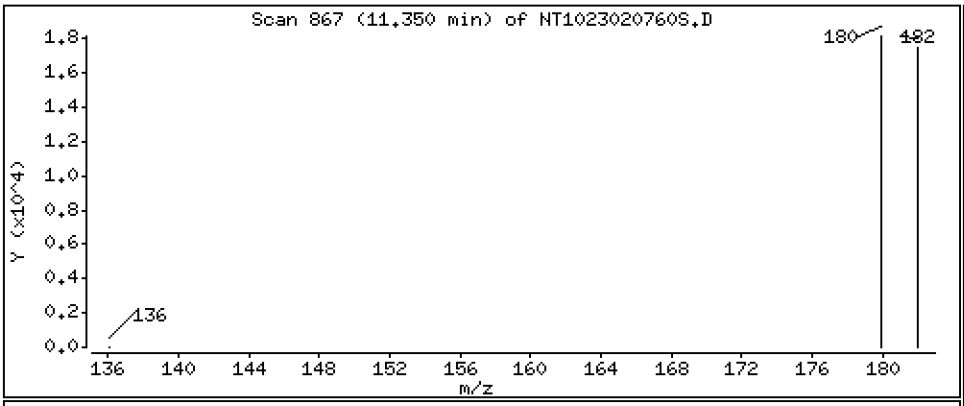
Operator: DSD

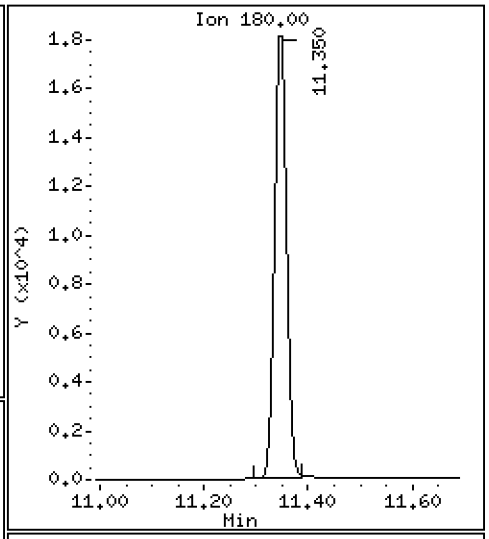
Column phase: ZB-5msi

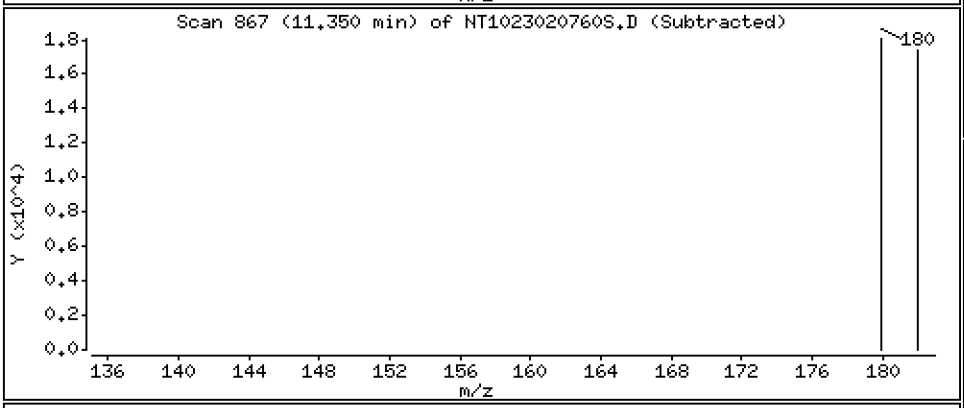
Column diameter: 0.25

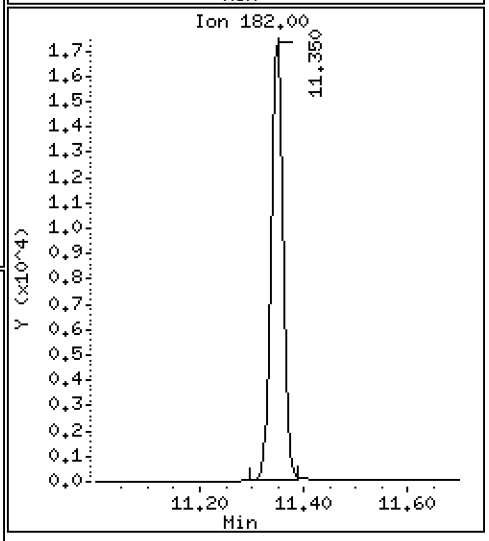
26 1,2,4-Trichlorobenzene

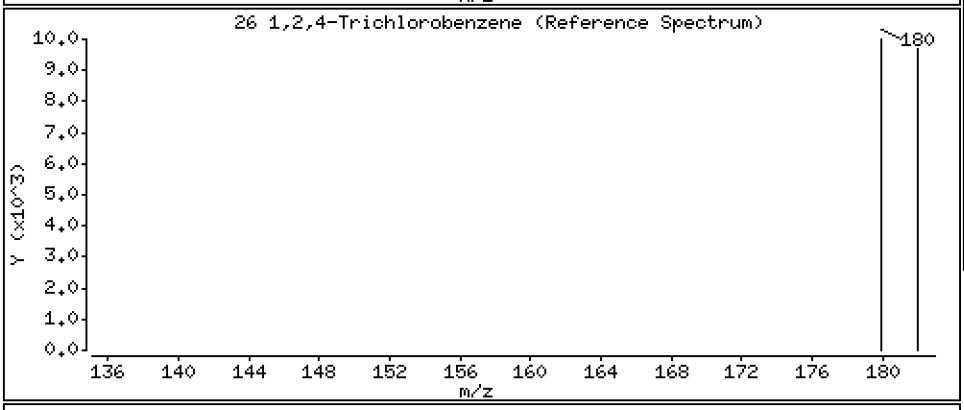
Concentration: 1.063 ug/L

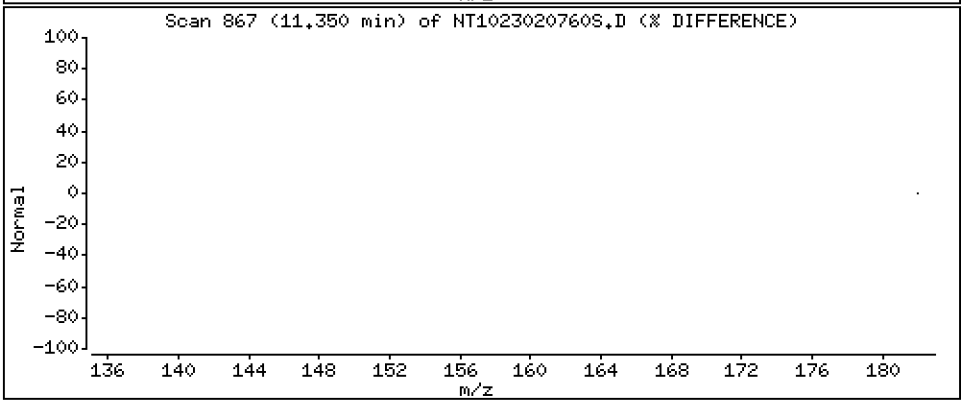












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Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

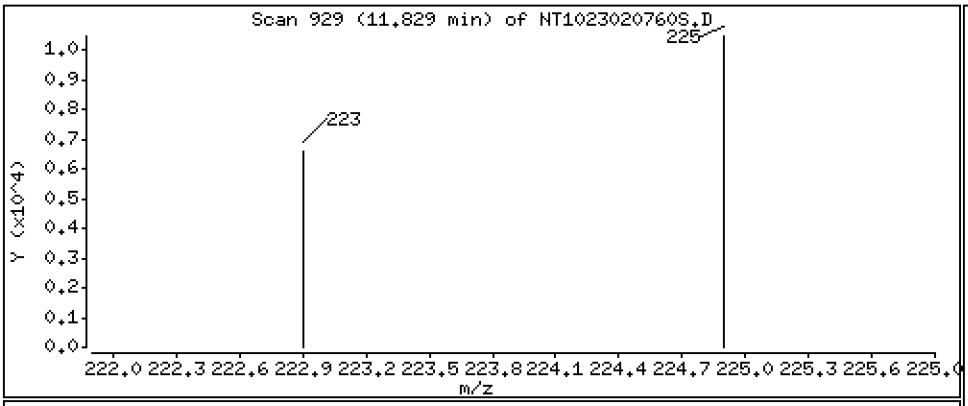
Operator: DSD

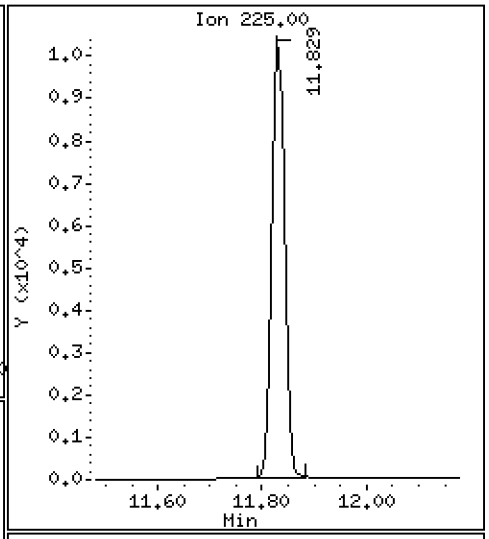
Column phase: ZB-5msi

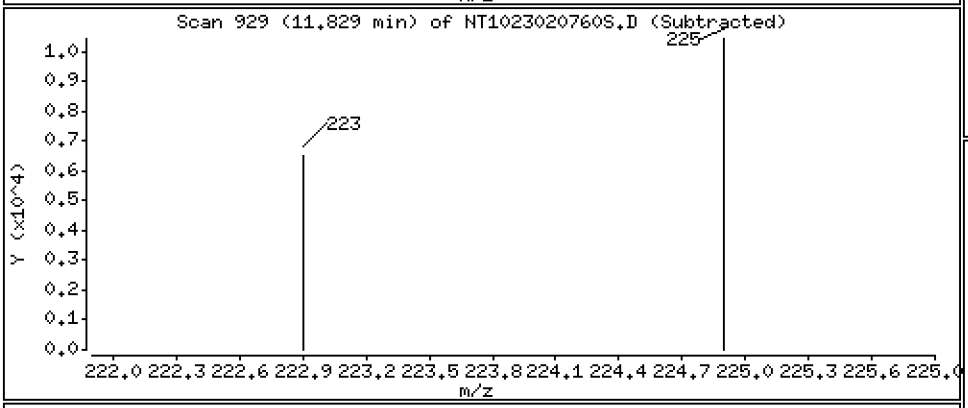
Column diameter: 0.25

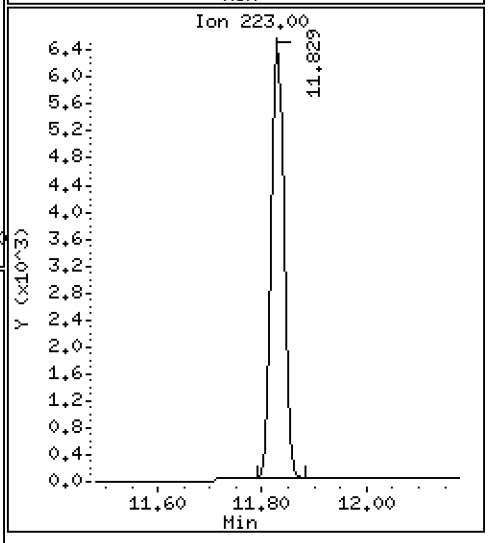
30 Hexachlorobutadiene

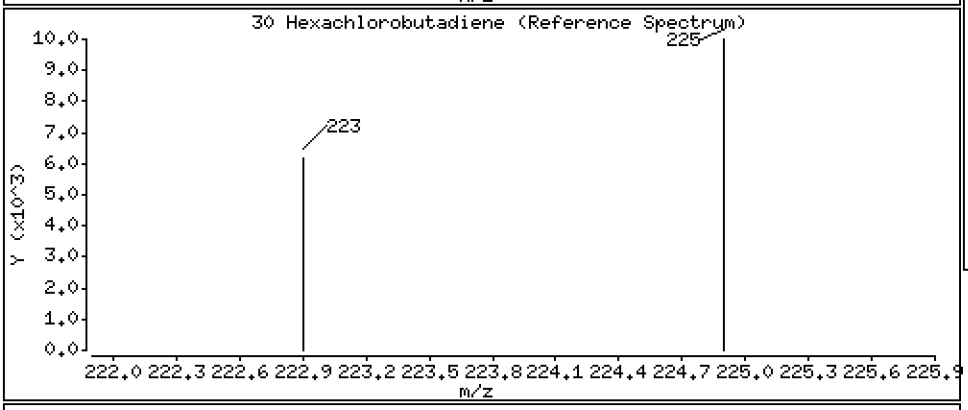
Concentration: 1.051 ug/L

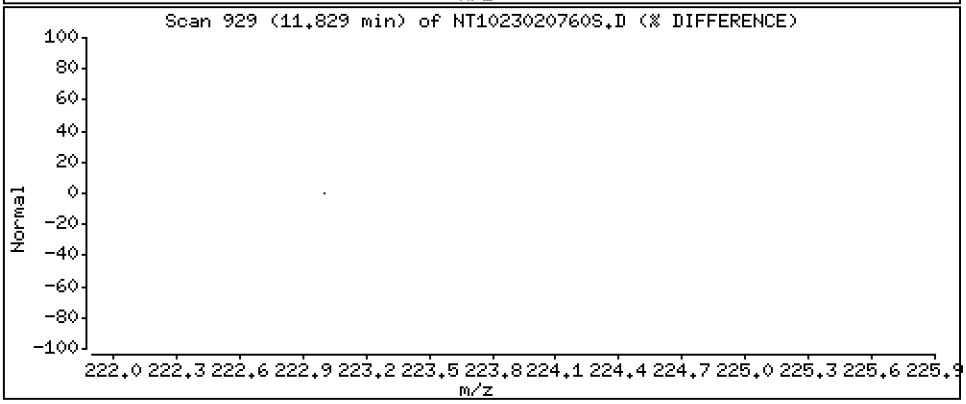












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Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

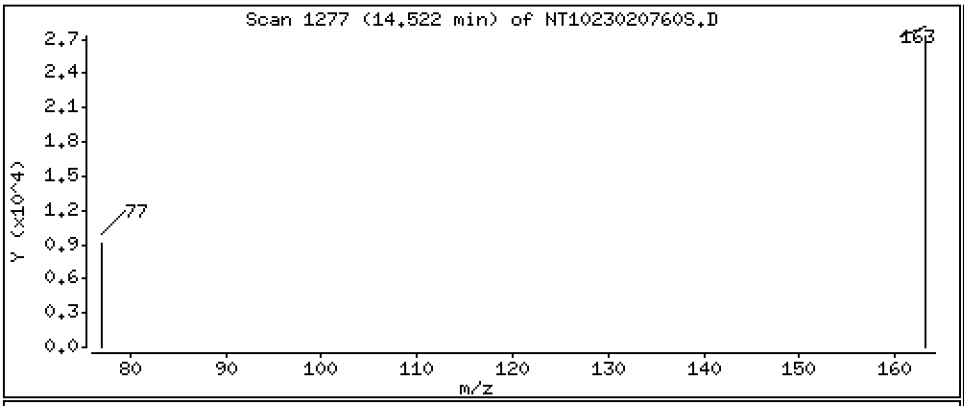
Operator: DSD

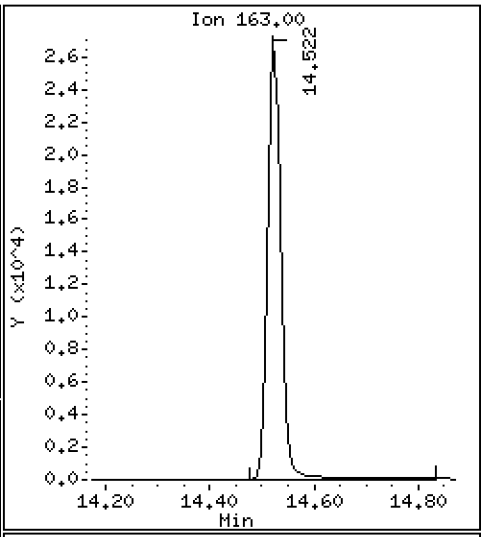
Column phase: ZB-5msi

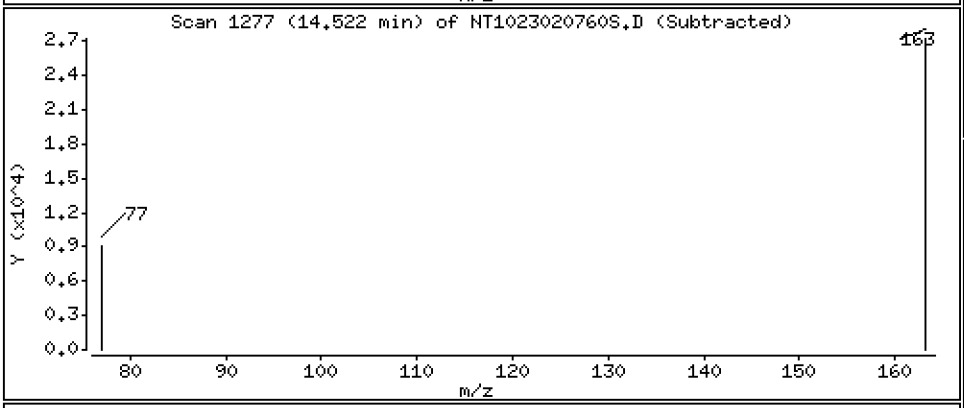
Column diameter: 0.25

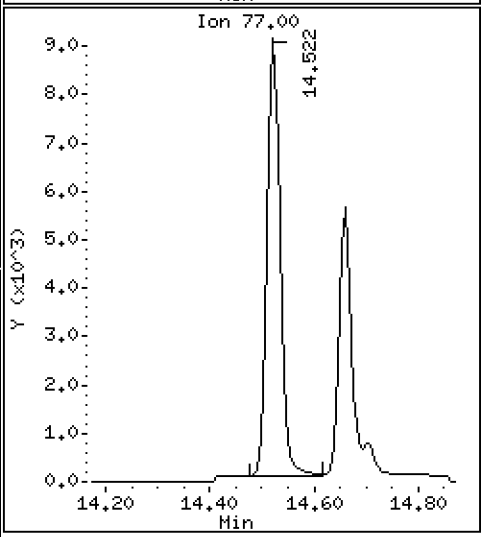
39 Dimethylphthalate

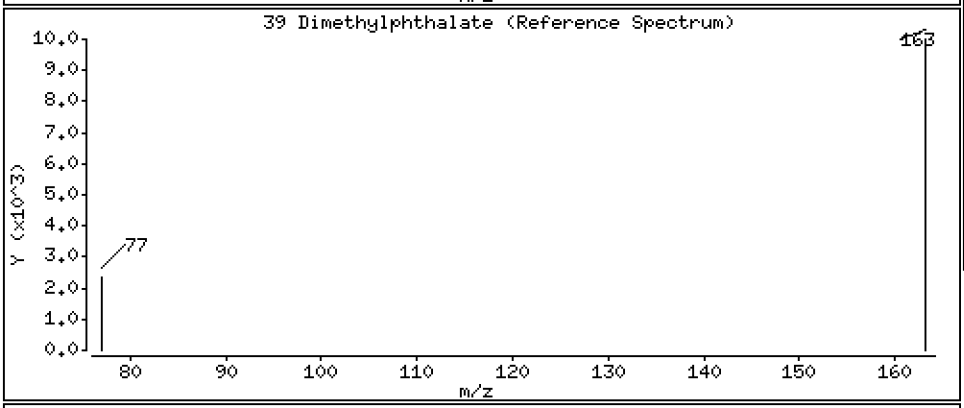
Concentration: 1.114 ug/L

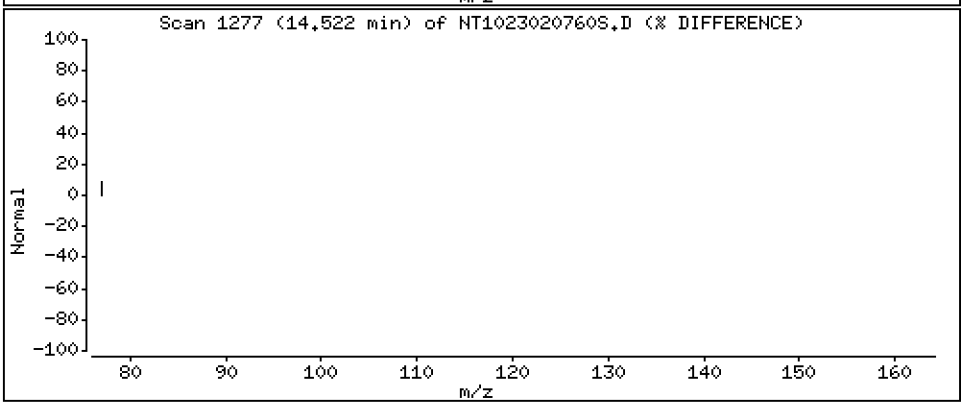












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Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

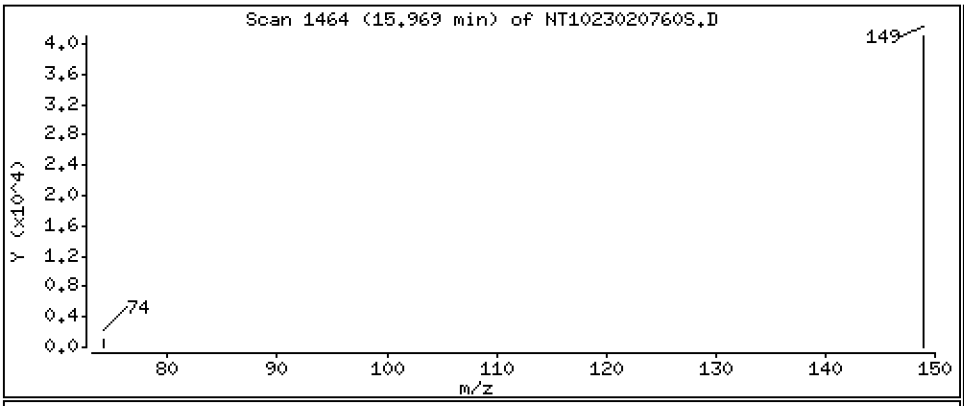
Operator: DSD

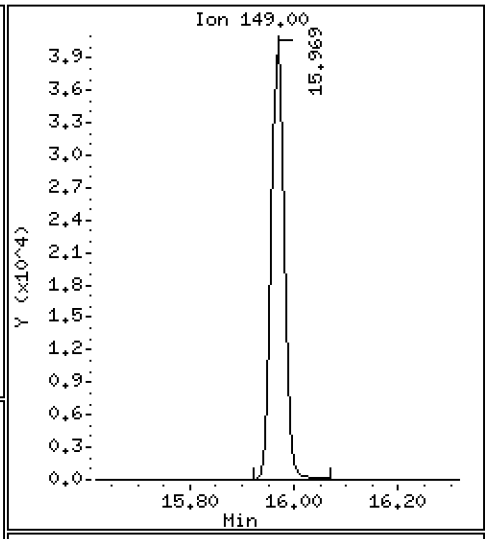
Column phase: ZB-5msi

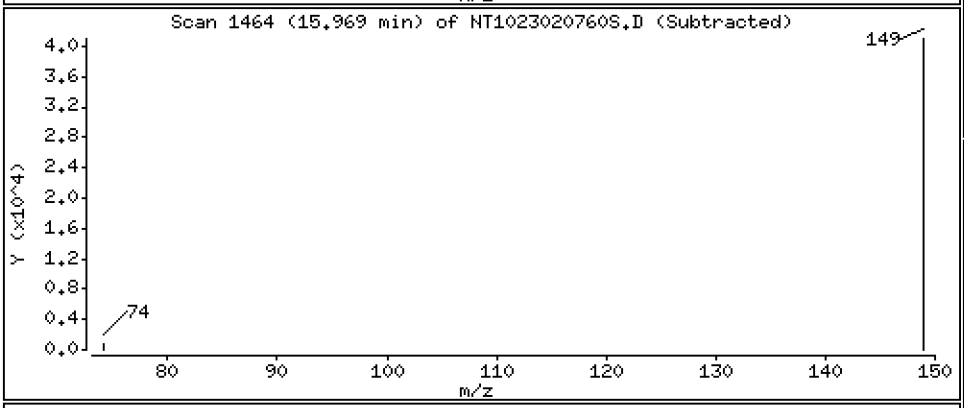
Column diameter: 0.25

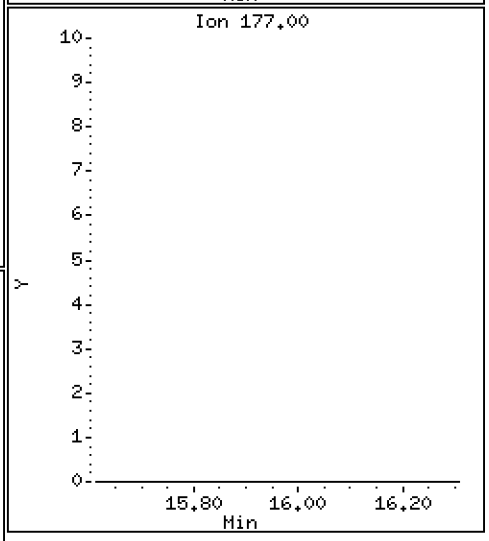
50 Diethylphthalate

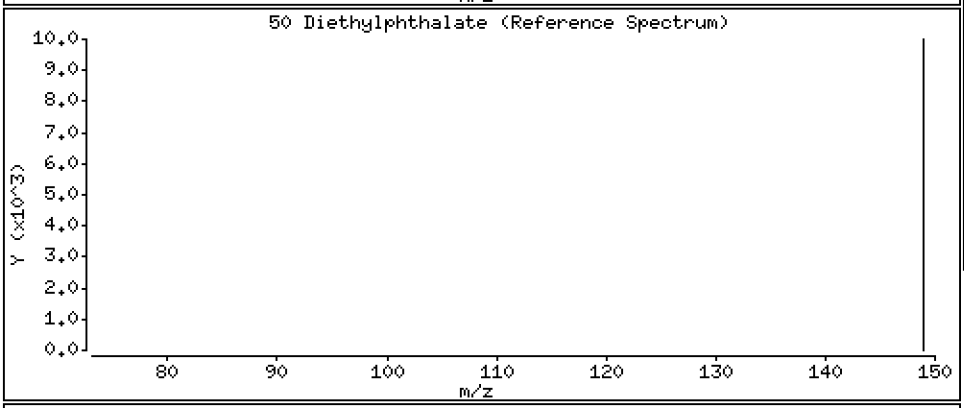
Concentration: 1.102 ug/L

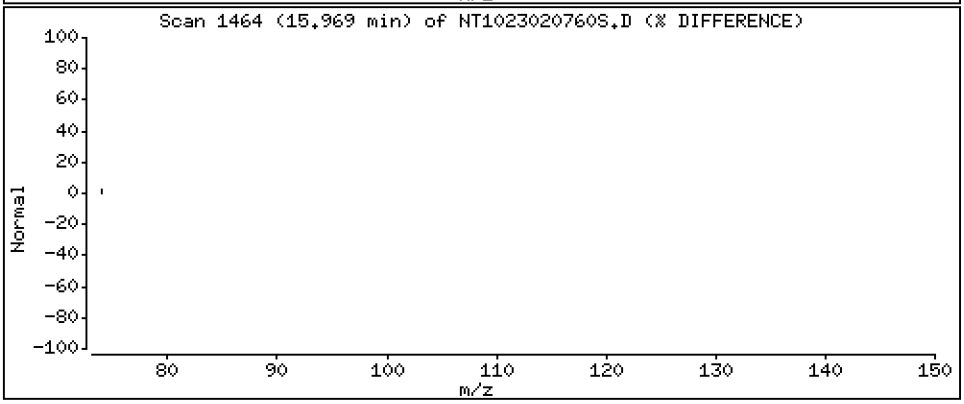












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Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

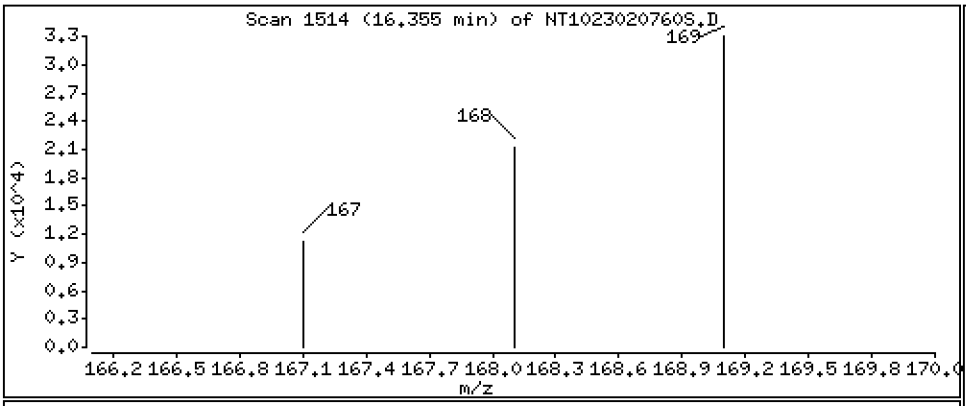
Operator: DSD

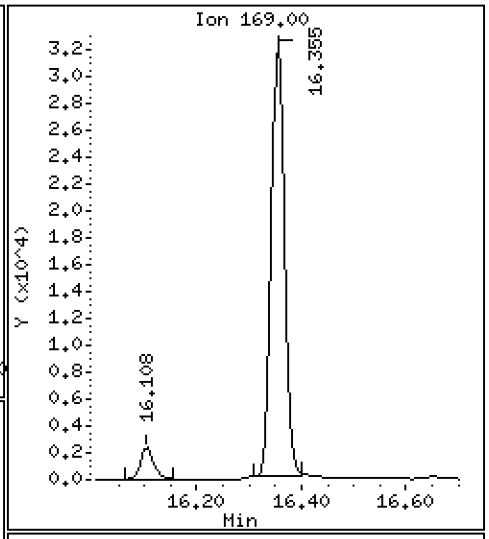
Column phase: ZB-5msi

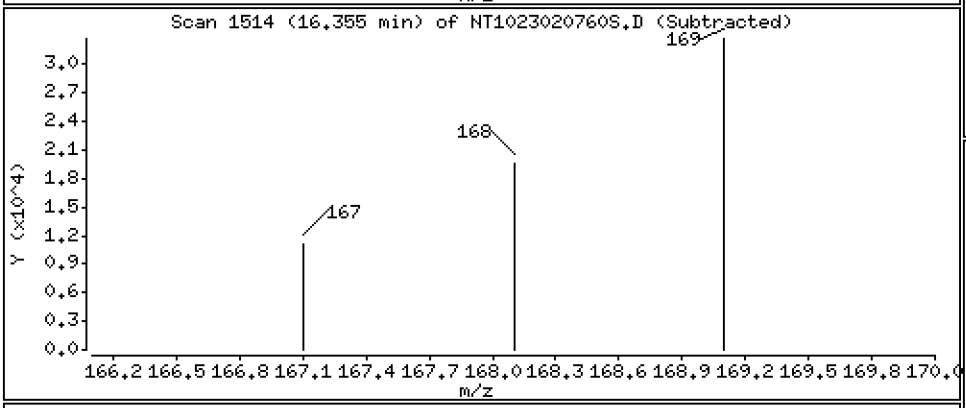
Column diameter: 0.25

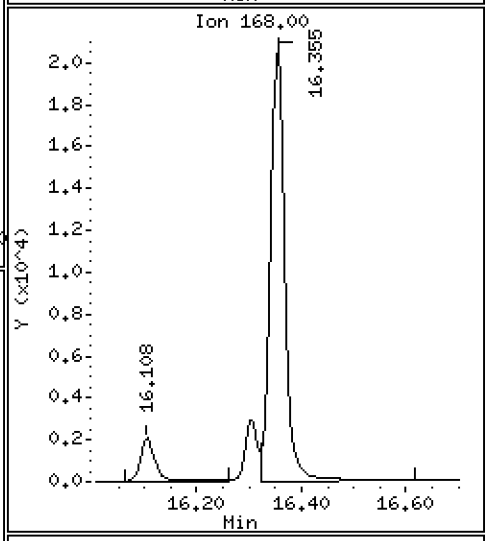
54 N-Nitrosodiphenylamine

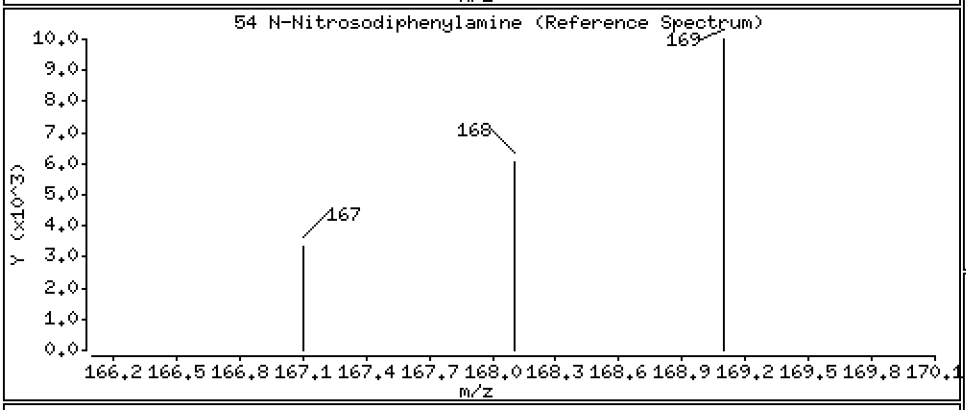
Concentration: 1.022 ug/L

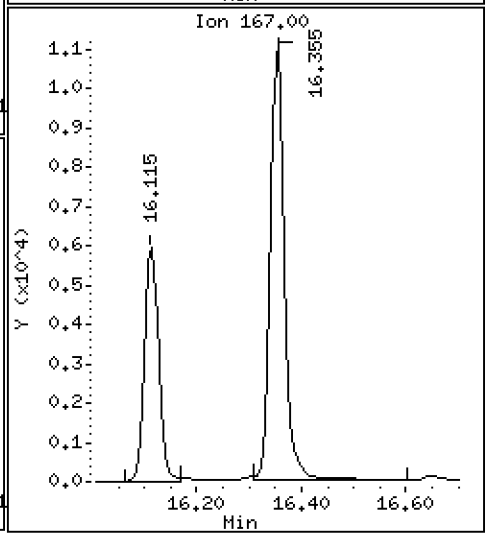


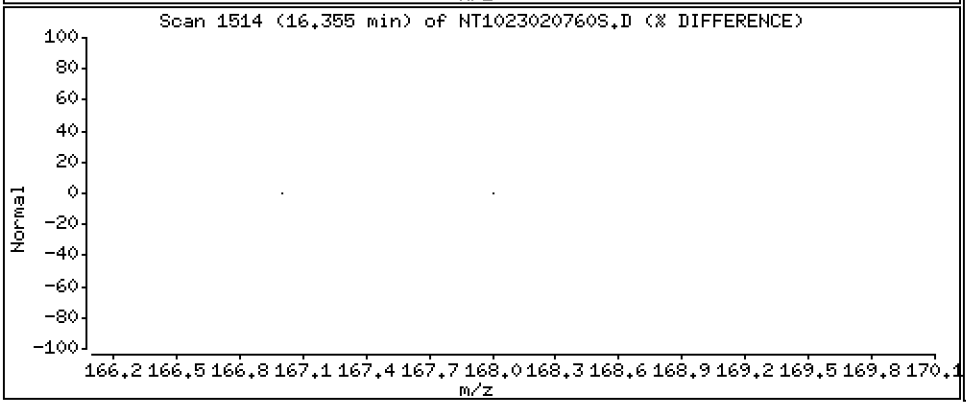












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Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

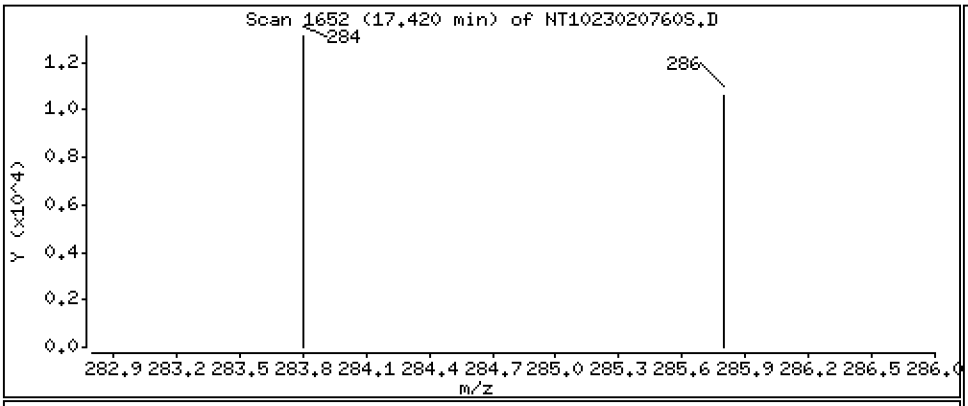
Operator: DSD

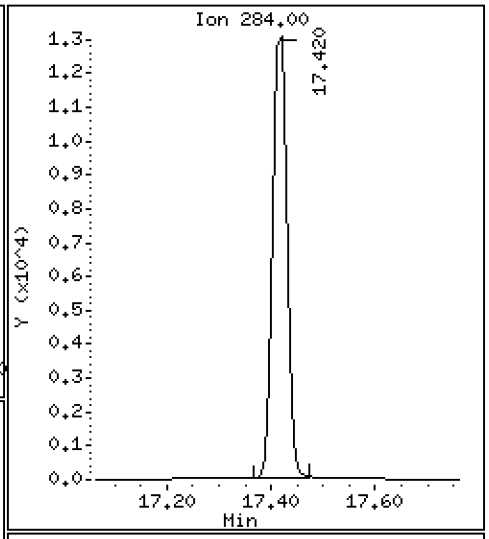
Column phase: ZB-5msi

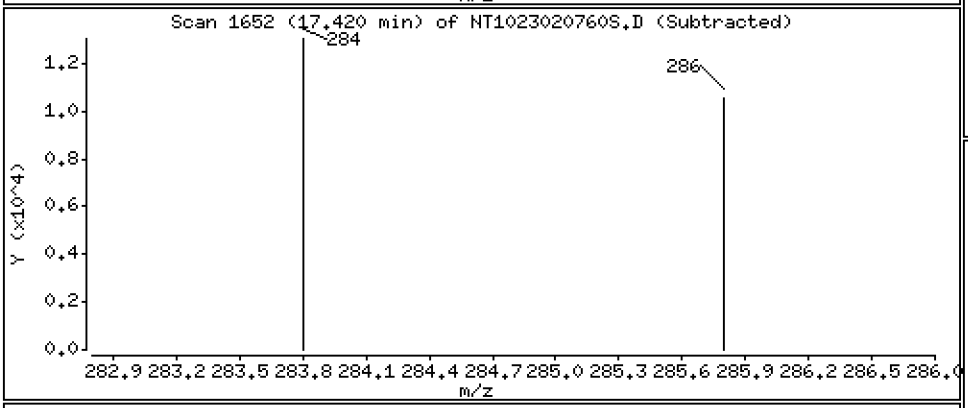
Column diameter: 0.25

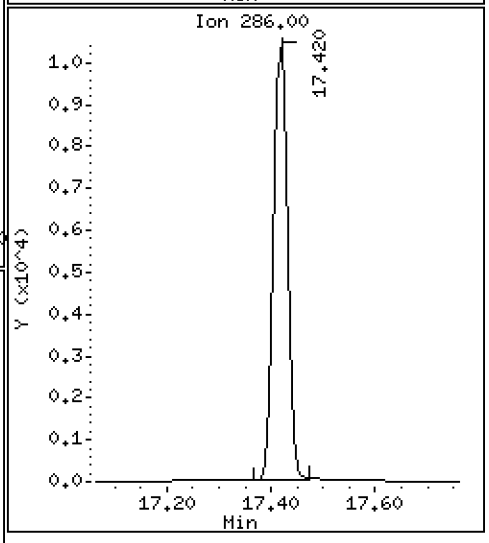
57 Hexachlorobenzene

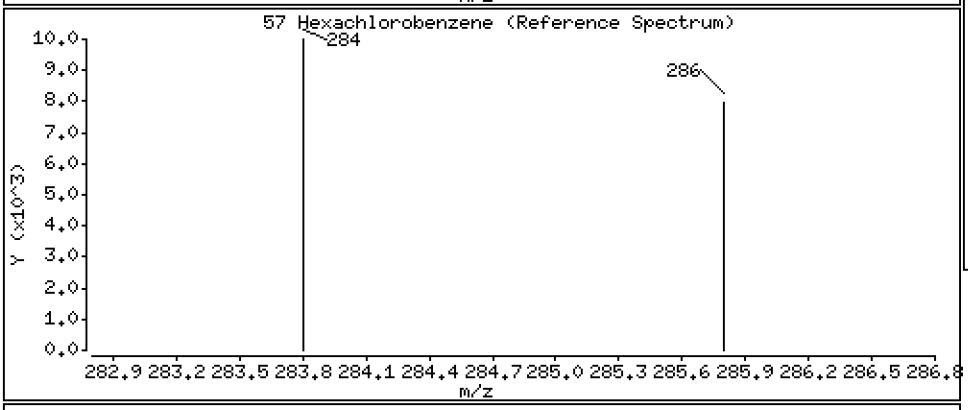
Concentration: 1.067 ug/L

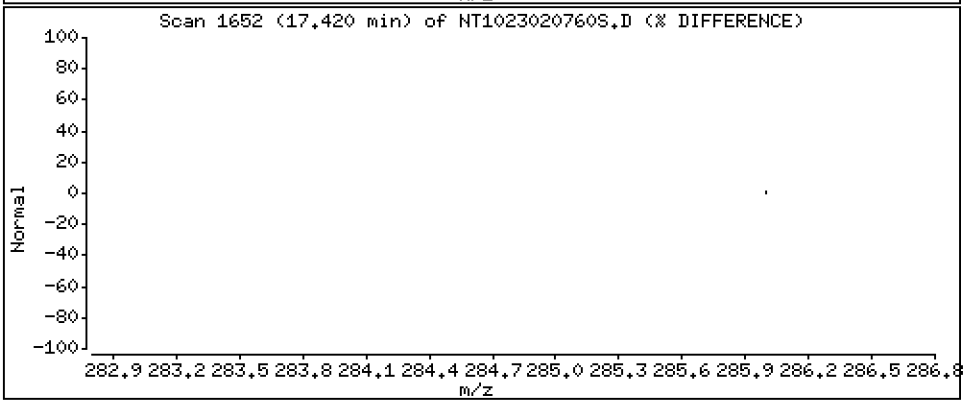












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020760S.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

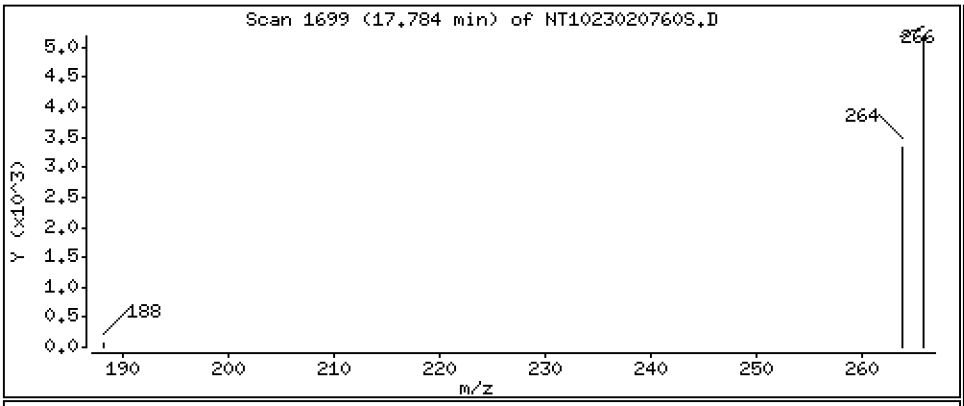
Operator: DSD

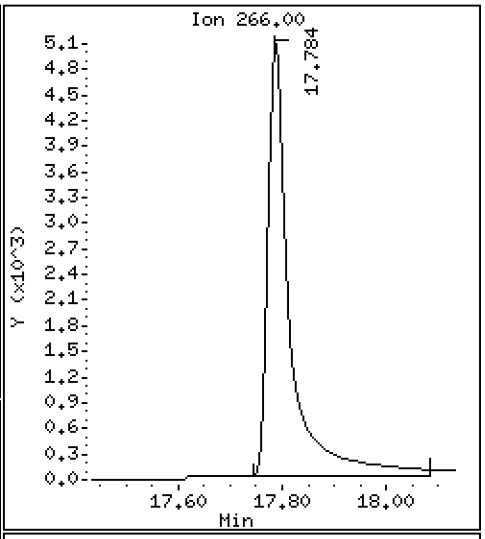
Column phase: ZB-5msi

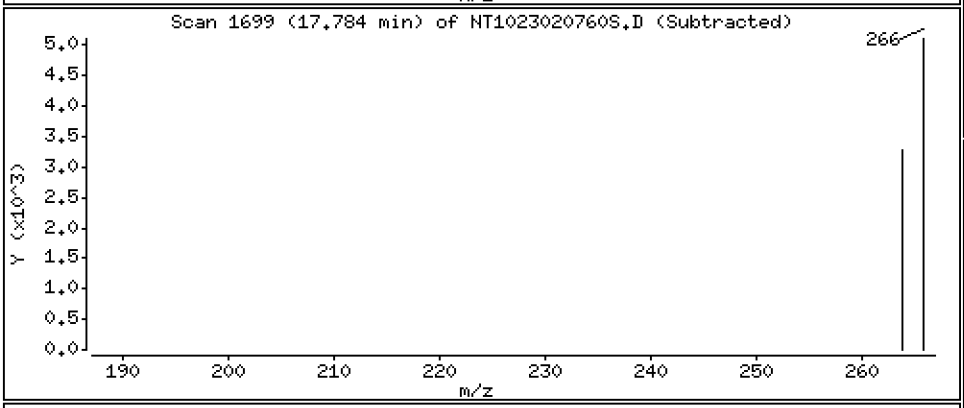
Column diameter: 0.25

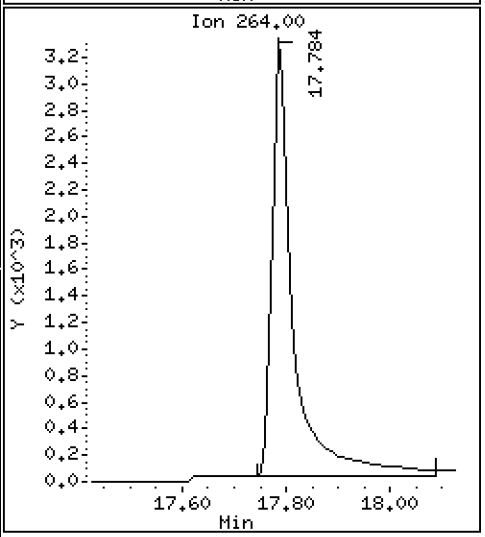
58 Pentachlorophenol

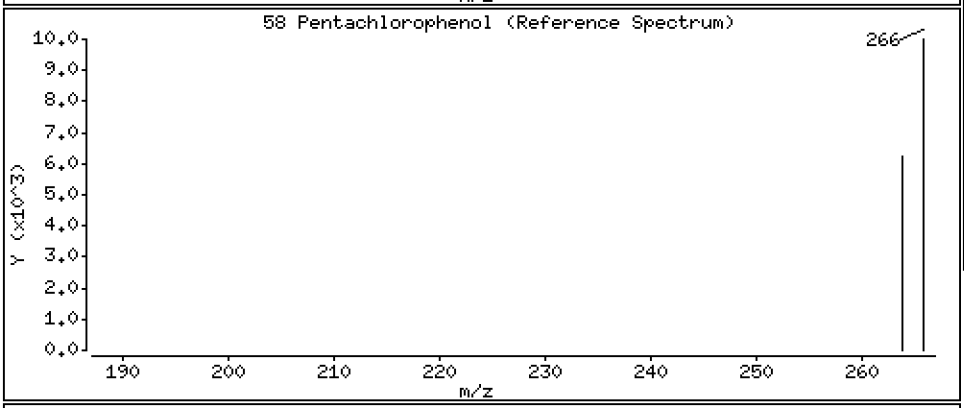
Concentration: 1.862 ug/L

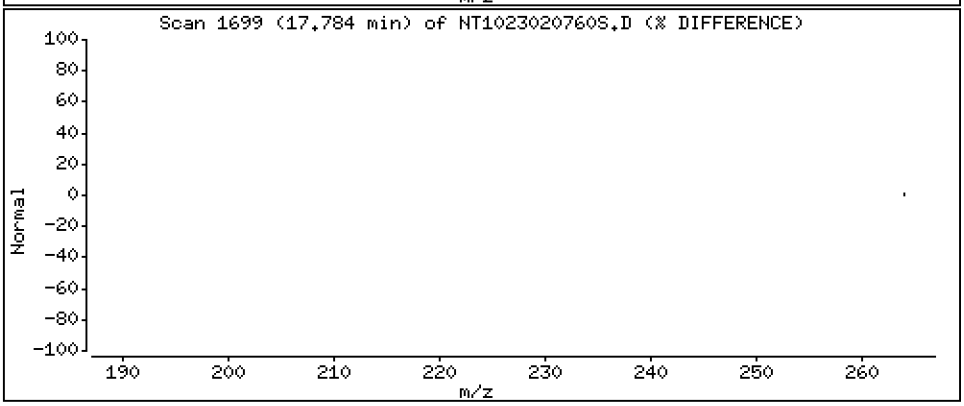












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020760S.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

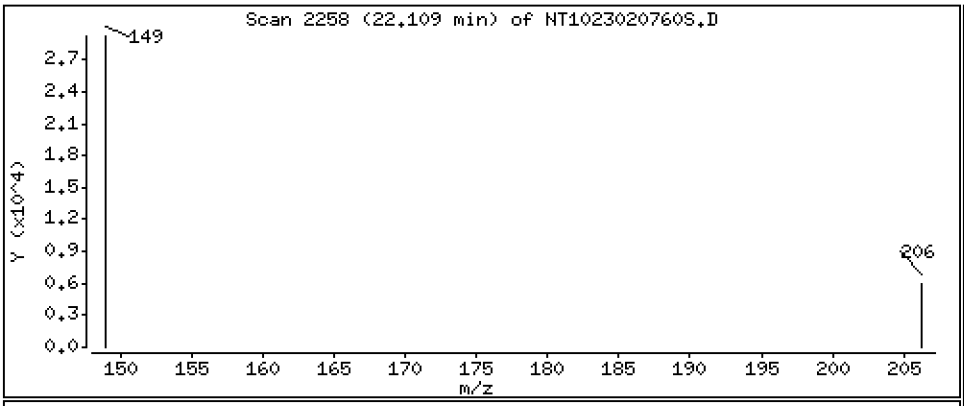
Operator: DSD

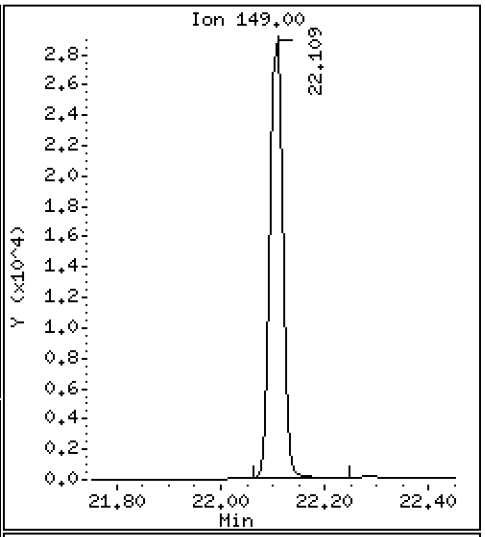
Column phase: ZB-5msi

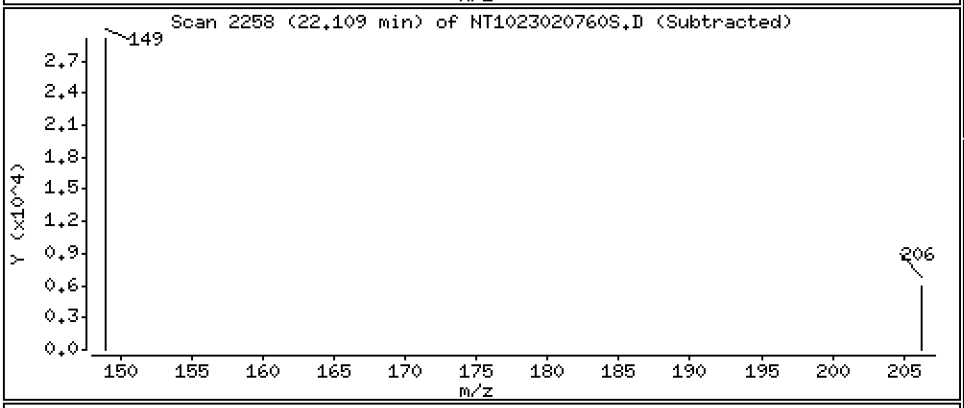
Column diameter: 0.25

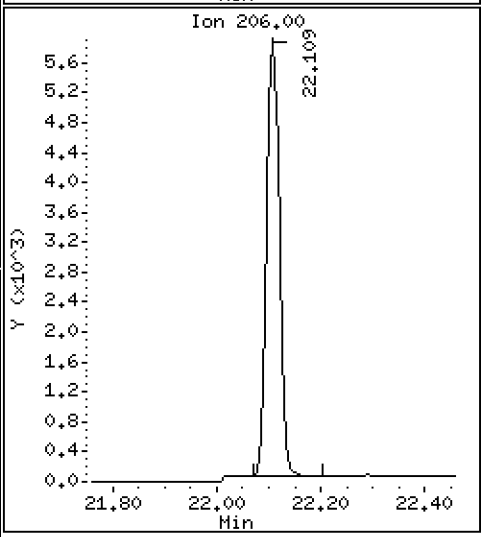
67 Butylbenzylphthalate

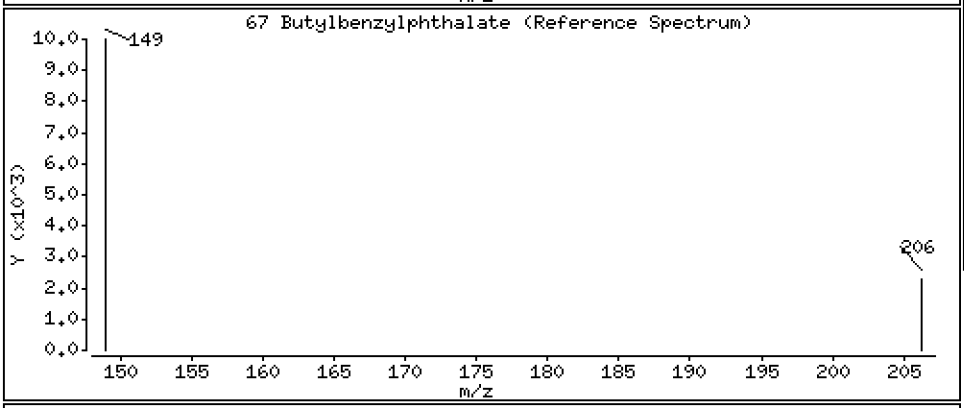
Concentration: 1.119 ug/L

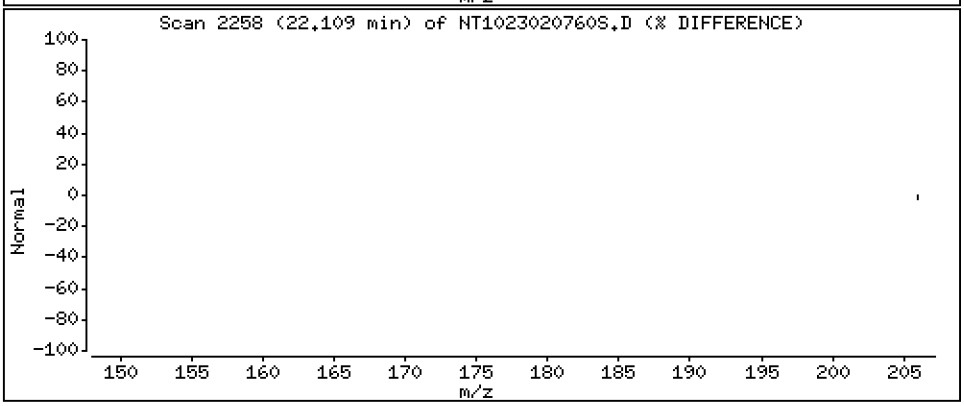












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020760S.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

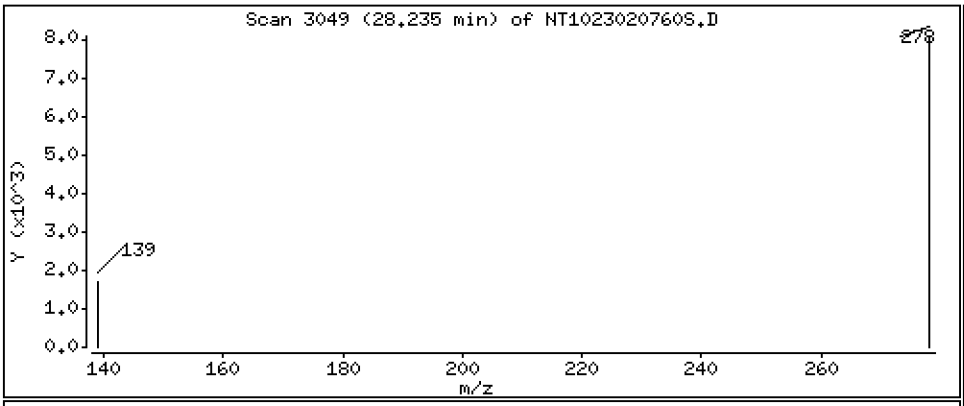
Operator: DSD

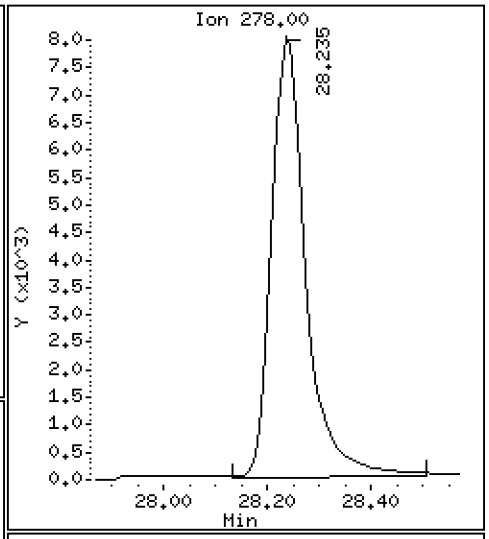
Column phase: ZB-5msi

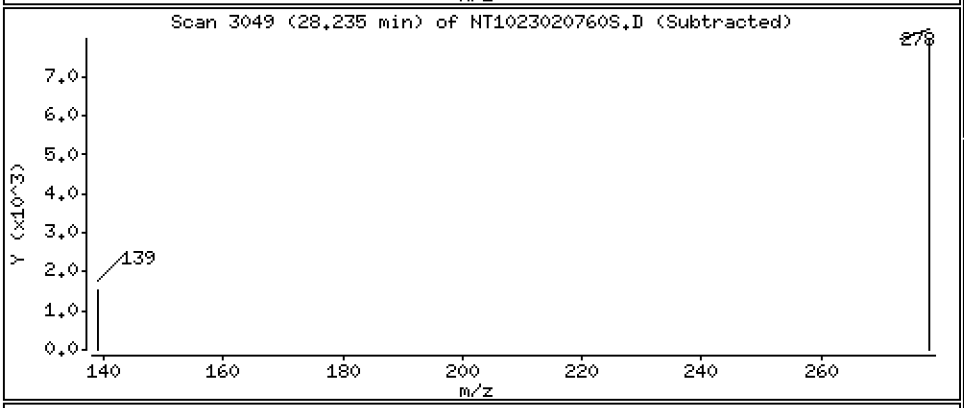
Column diameter: 0.25

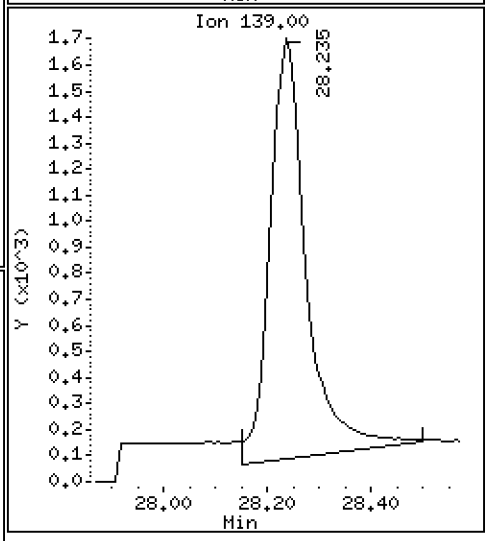
79 Dibenzo(a,h)anthracene

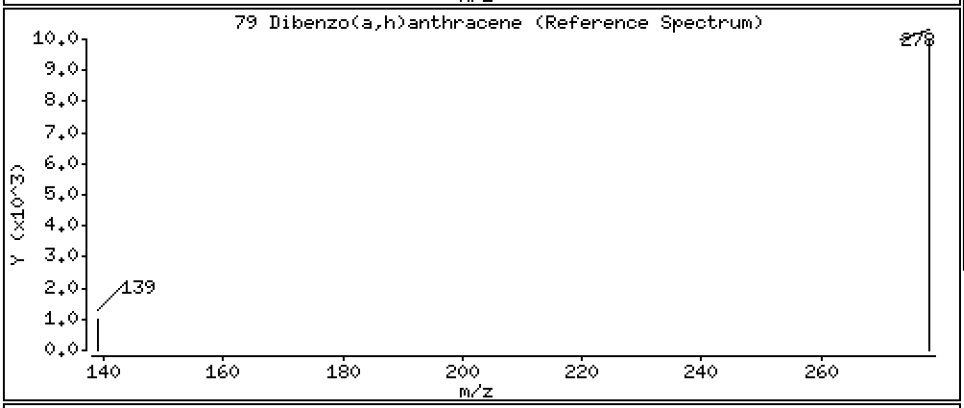
Concentration: 0.6091 ug/L

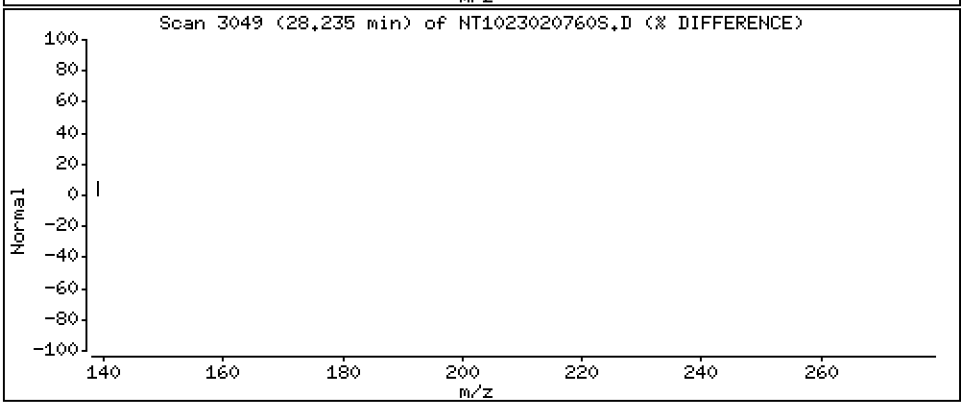












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207605.D

Date : 09-FEB-2023 01:13

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-CCV1

Volume Injected (uL): 1.0

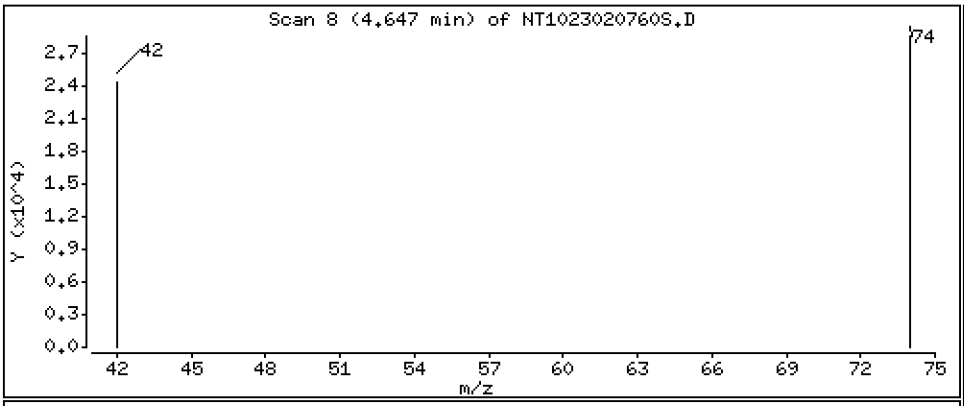
Operator: DSD

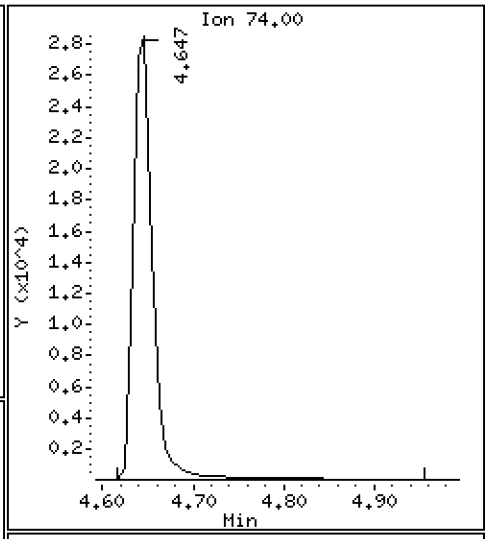
Column phase: ZB-5msi

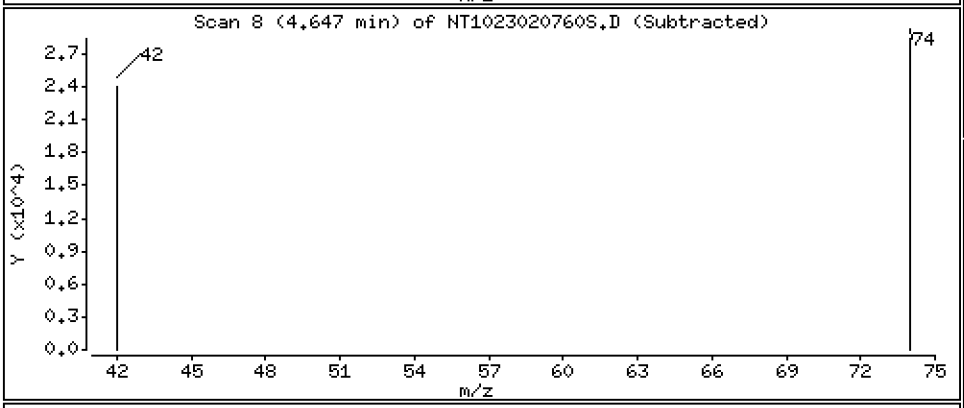
Column diameter: 0.25

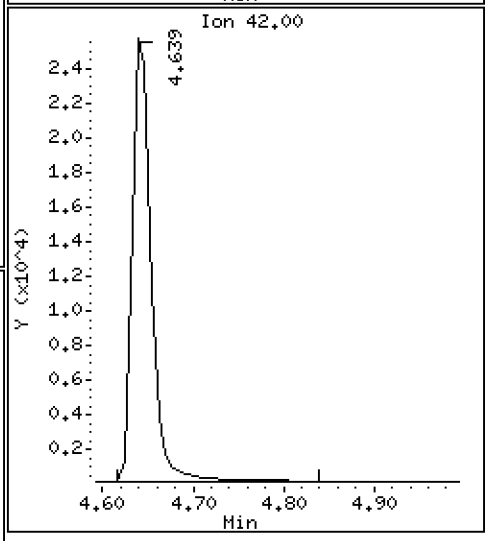
90 N-Nitrosodimethylamine

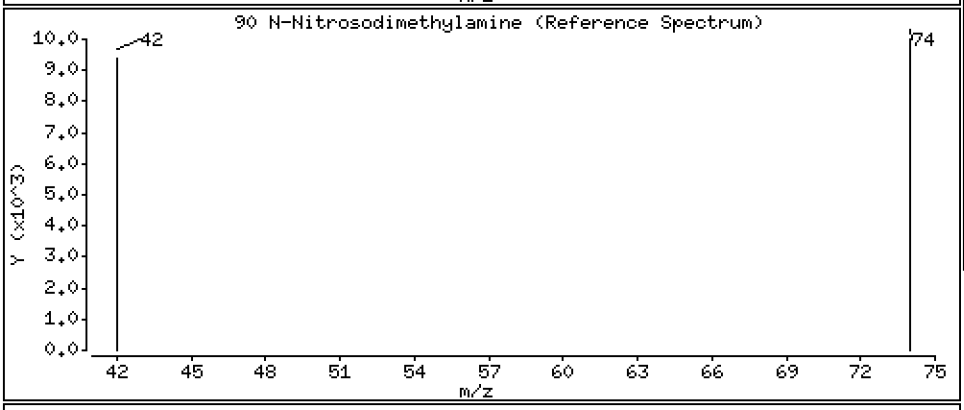
Concentration: 2.263 ug/L

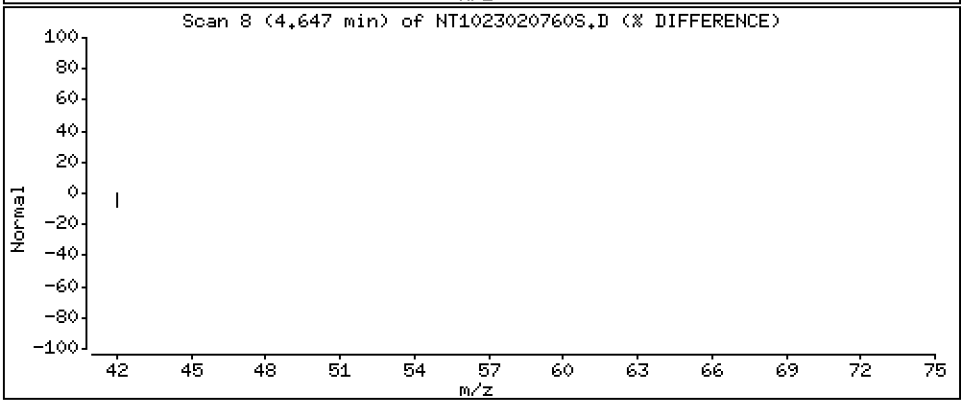












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020760S.D
Lab Smp Id: SLB0106-CCV1
Inj Date : 09-FEB-2023 01:13 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-CCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 10-Feb-2023 07:01 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.785	6.785	(0.756)	47805	1.63814	1.638(R)
3	Phenol	94	8.369	8.369	(0.933)	47454	1.07841	1.078
7	1,3-Dichlorobenzene	146	8.910	8.910	(0.993)	40441	1.02052	1.021
* 8	1,4-Dichlorobenzene-d4	152	8.972	8.972	(1.000)	95964	4.00000	
9	1,4-Dichlorobenzene	146	9.003	9.003	(1.003)	39202	1.01182	1.012
11	Benzyl alcohol	79	9.244	9.244	(1.030)	25933	1.20807	1.208
12	1,2-Dichlorobenzene	146	9.353	9.353	(1.042)	38553	1.01953	1.020
13	2-Methylphenol	108	9.469	9.469	(1.055)	33919	1.12909	1.129
15	4-Methylphenol	108	9.741	9.741	(1.086)	34640	1.13054	1.131
16	N-Nitroso-di-n-propylamine	70	9.787	9.787	(1.091)	25241	1.15398	1.154
22	2,4-Dimethylphenol	107	10.771	10.771	(0.943)	68775	2.23240	2.232
24	Benzoic acid	105	10.932	10.932	(0.957)	51739	3.56515	3.565
26	1,2,4-Trichlorobenzene	180	11.350	11.342	(0.993)	30704	1.06327	1.063
* 27	Naphthalene-d8	136	11.427	11.427	(1.000)	350716	4.00000	
30	Hexachlorobutadiene	225	11.829	11.829	(1.035)	16578	1.05149	1.051
39	Dimethylphthalate	163	14.522	14.522	(0.967)	45176	1.11377	1.114
* 42	Acenaphthene-d10	162	15.017	15.017	(1.000)	174033	4.00000	
50	Diethylphthalate	149	15.968	15.968	(1.063)	67321	1.10206	1.102
54	N-Nitrosodiphenylamine	169	16.354	16.354	(0.907)	53640	1.02219	1.022
57	Hexachlorobenzene	284	17.419	17.411	(0.966)	23824	1.06678	1.067

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.783	17.783	(0.986)	14698	1.86225	1.862
*	59 Phenanthrene-d10	188	18.031	18.031	(1.000)	317531	4.00000	
$	66 Terphenyl-d14	244	21.180	21.180	(0.917)	71463	1.15239	1.152(R)
	67 Butylbenzylphthalate	149	22.109	22.101	(0.958)	46896	1.11877	1.119
*	69 Chrysene-d12	240	23.084	23.084	(1.000)	279383	4.00000	
*	77 Perylene-d12	264	25.655	25.647	(1.000)	215378	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.235	28.219	(1.101)	36766	0.60910	0.6091
	90 N-Nitrosodimethylamine	74	4.646	4.646	(0.518)	43269	2.26260	2.263

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020760S.D
Lab Smp Id: SLB0106-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 08-FEB-2023
Calibration Time: 18:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	95705	47853	191410	95964	0.27
27 Naphthalene-d8	353101	176551	706202	350716	-0.68
42 Acenaphthene-d10	170881	85441	341762	174033	1.84
59 Phenanthrene-d10	321878	160939	643756	317531	-1.35
69 Chrysene-d12	279976	139988	559952	279383	-0.21
77 Perylene-d12	238134	119067	476268	215378	-9.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.97	0.00
27 Naphthalene-d8	11.43	10.93	11.93	11.43	0.00
42 Acenaphthene-d10	15.02	14.52	15.52	15.02	0.00
59 Phenanthrene-d10	18.03	17.53	18.53	18.03	0.00
69 Chrysene-d12	23.08	22.58	23.58	23.08	0.00
77 Perylene-d12	25.65	25.15	26.15	25.66	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020760S.D

Lab ID: SLB0106-CCV1
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   09-FEB-2023 01:13

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230207.b/NT1023020750S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GB00019
Lab File ID:	NT1023020715S.D	Calibration Date:	02/07/2023
Sequence:	SLB0106	Injection Date:	02/07/23
Lab Sample ID:	SLB0106-LCV1	Injection Time:	20:36
Sequence Name:	LCV 0.1		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
1,4-Dichlorobenzene	A	0.10000	0.1	1.6149400	1.8168290		5.8	
1,2-Dichlorobenzene	A	0.10000	0.1	1.5761980	1.7578730		5.4	
Benzyl Alcohol	A	0.10000	0.07	0.8947729	0.6911245		-26.2	
Benzoic acid	A	0.40000	0.0	0.1278126				
2,4-Dimethylphenol	A	0.20000	0.2	0.3513679	0.3816480		8.6	
1,2,4-Trichlorobenzene	A	0.10000	0.1	0.3293471	0.3688736		12.0	
N-Nitrosodiphenylamine	A	0.10000	0.1	0.6610440	0.7143465		8.0	
Pentachlorophenol	A	0.20000	0.02	0.0758741	0.0102126		-89.6	
2-Fluorophenol	A	0.15000	0.147	1.2163900	1.2828220		-2.1	
p-Terphenyl-d14	A	0.10000	0.112	0.8878533	0.9943193		12.0	

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207158.D

Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

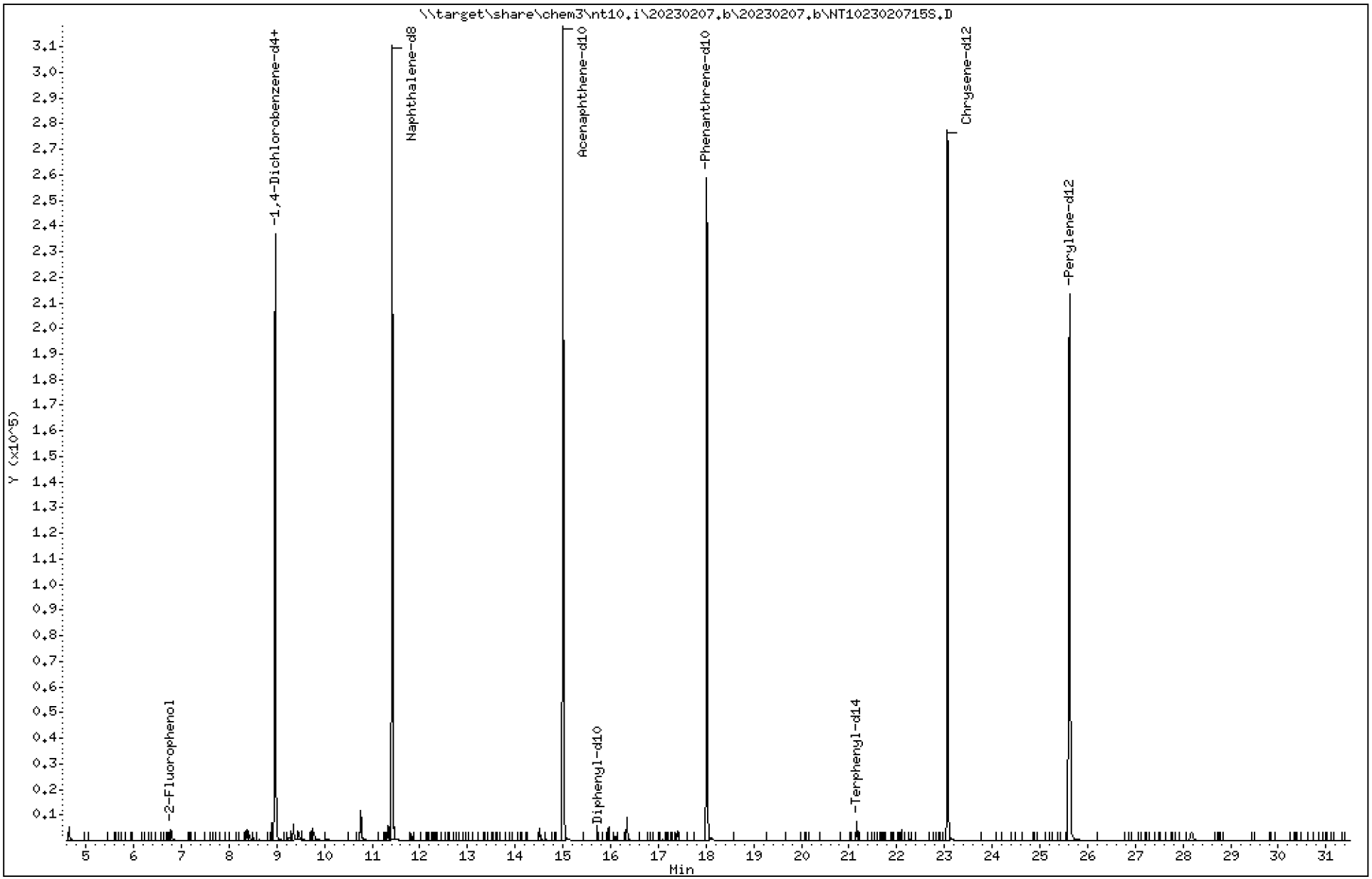
Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207155S.D

Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

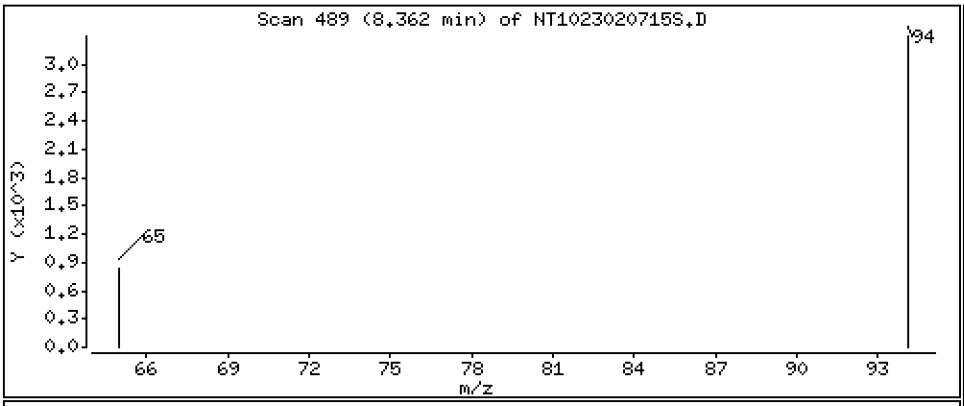
Operator: DSD

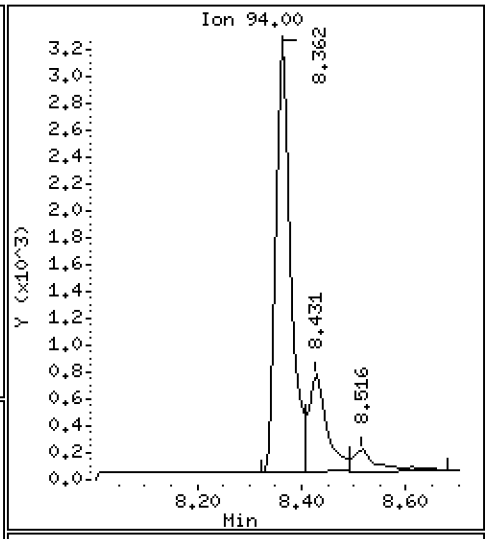
Column phase: ZB-5msi

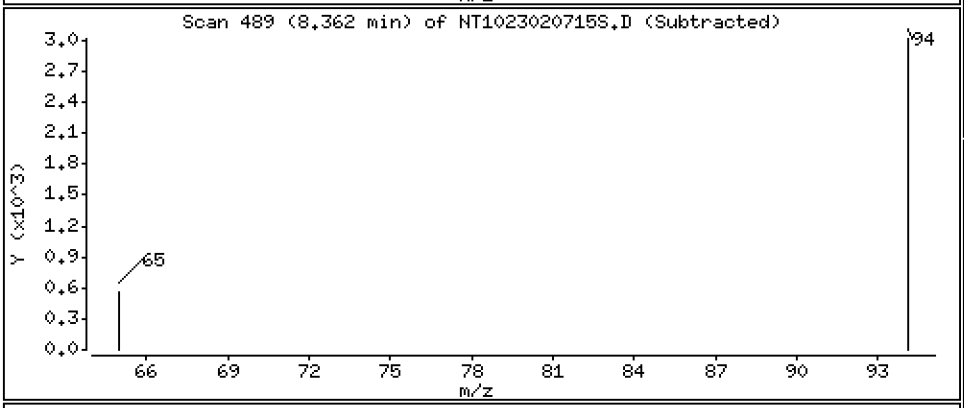
Column diameter: 0.25

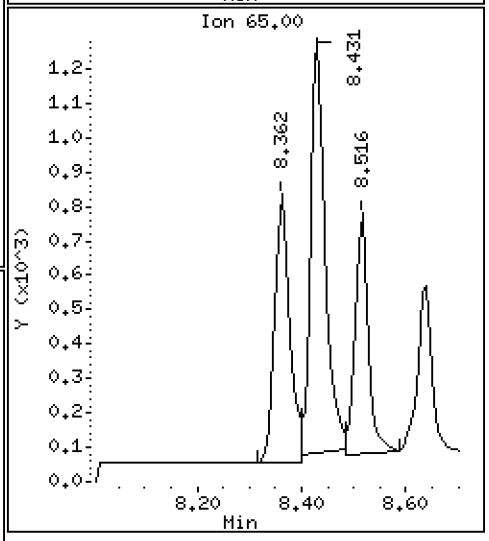
3 Phenol

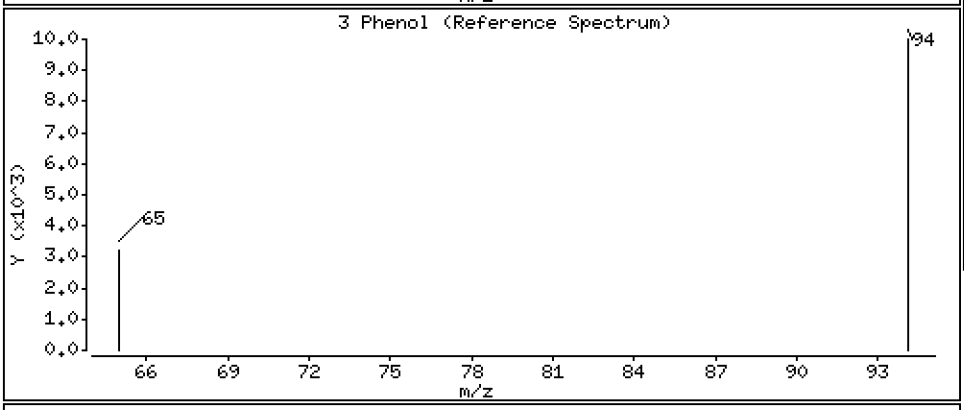
Concentration: 0.1014 ug/L

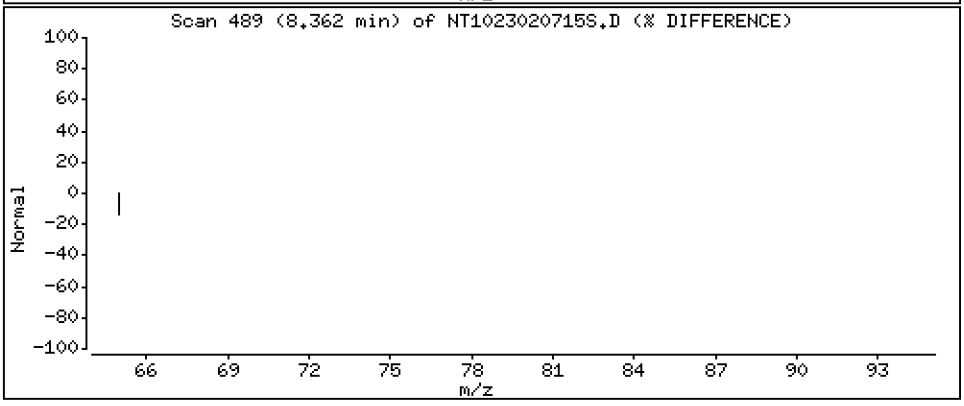












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207155S.D

Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

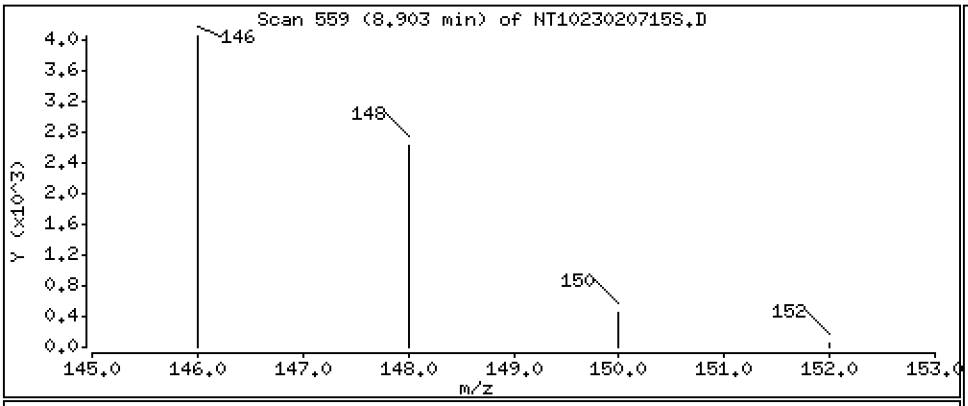
Operator: DSD

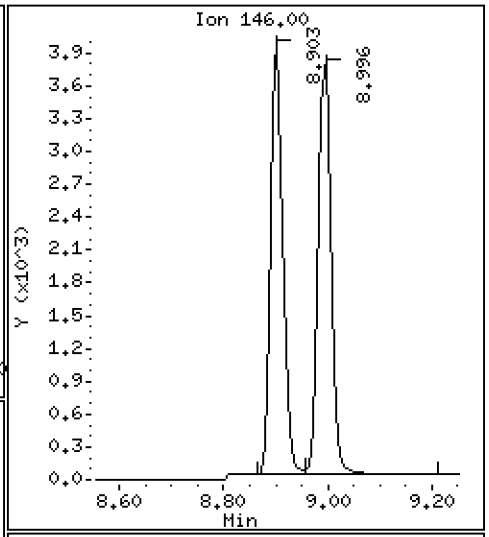
Column phase: ZB-5msi

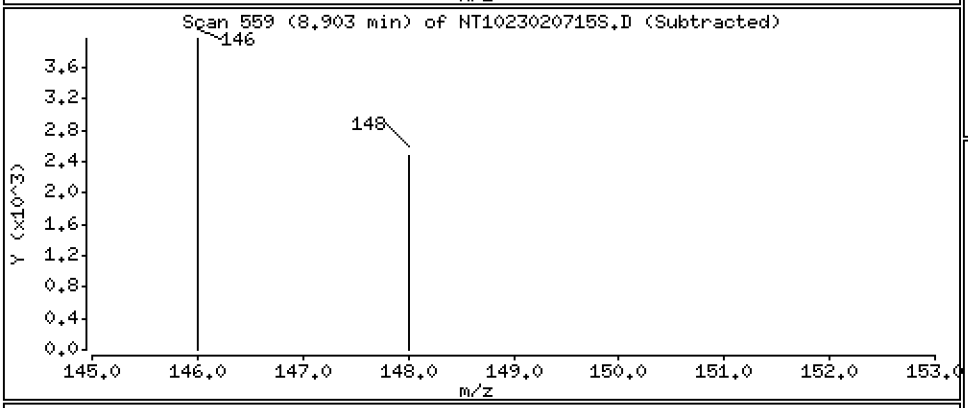
Column diameter: 0.25

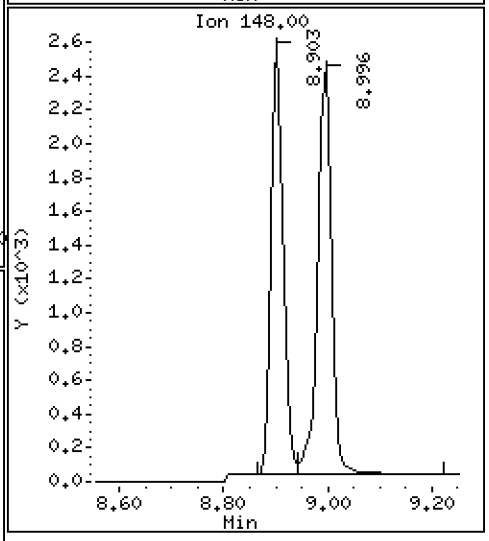
7 1,3-Dichlorobenzene

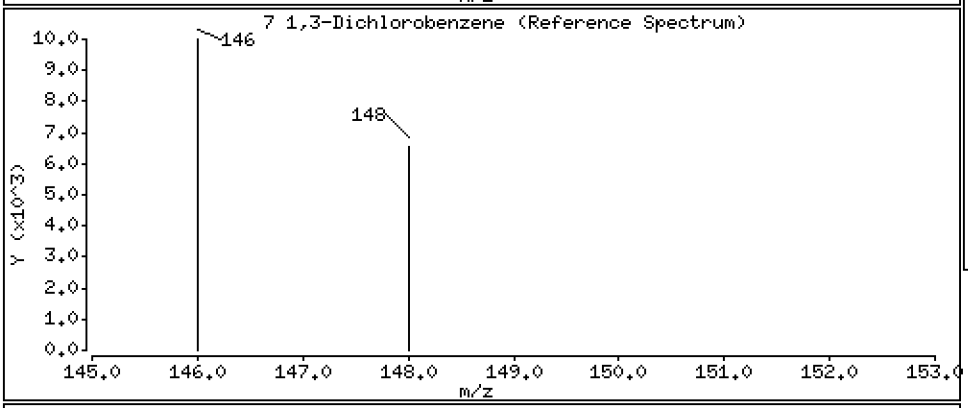
Concentration: 0.1120 ug/L

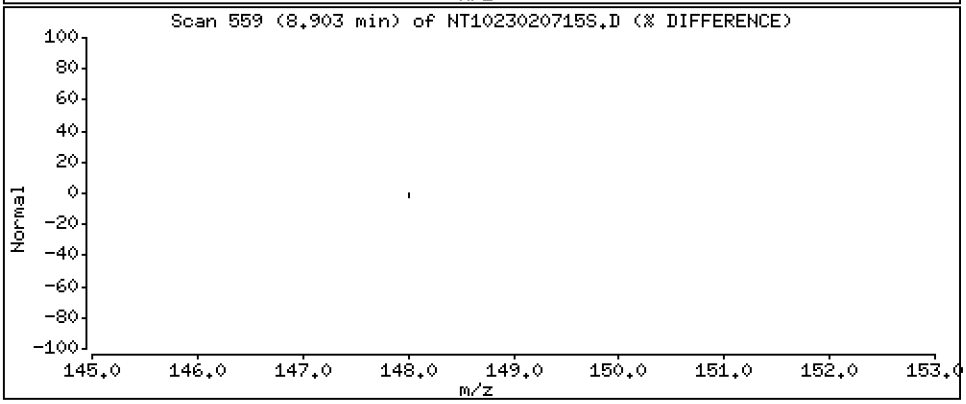












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207l5S.D

Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

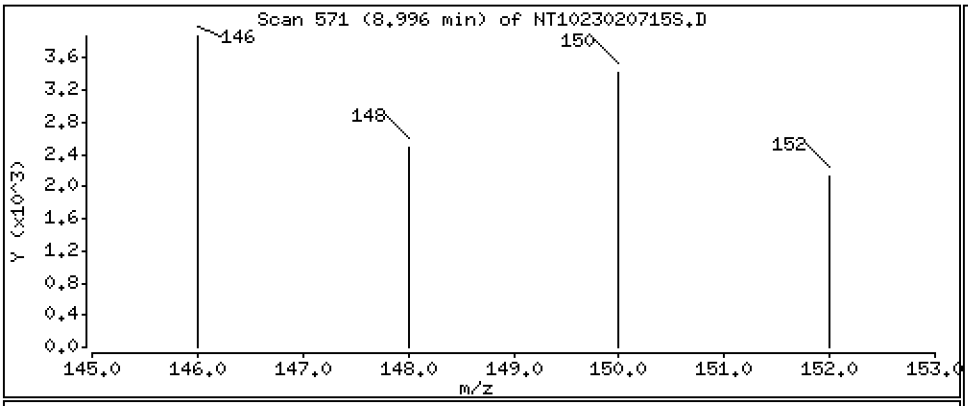
Operator: DSD

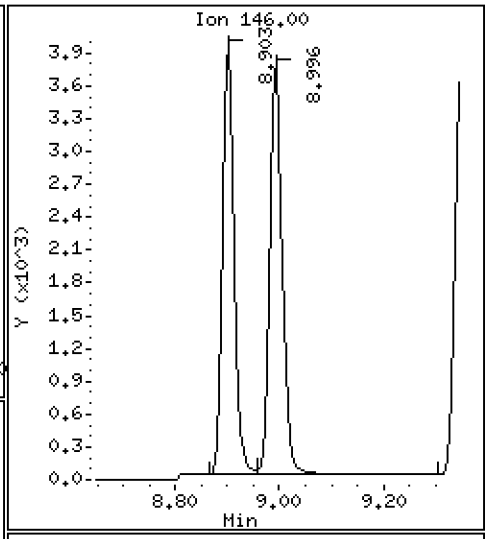
Column phase: ZB-5msi

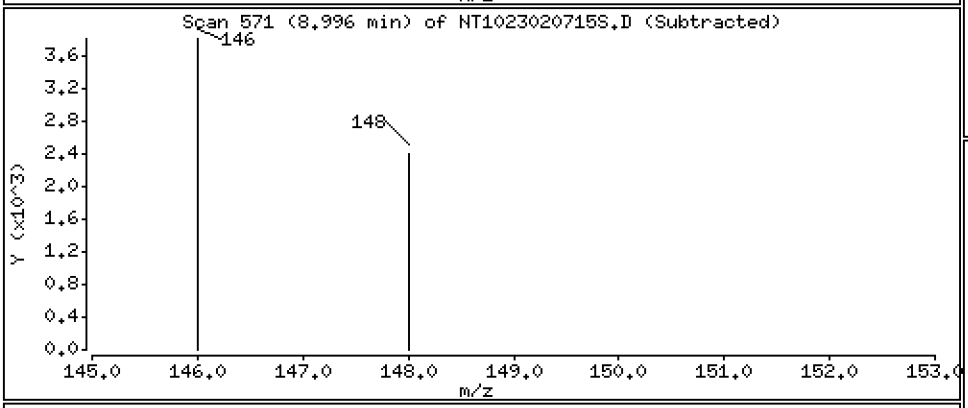
Column diameter: 0.25

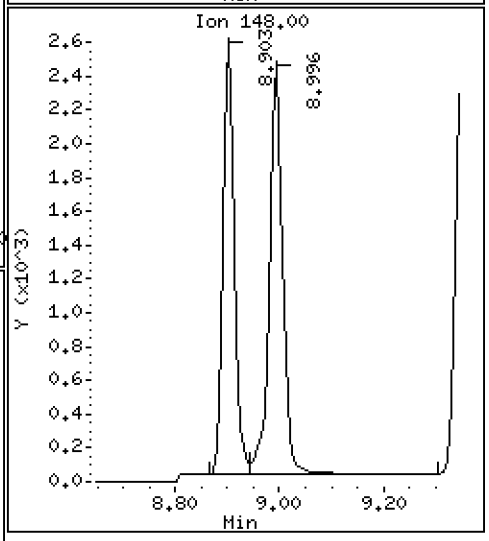
9 1,4-Dichlorobenzene

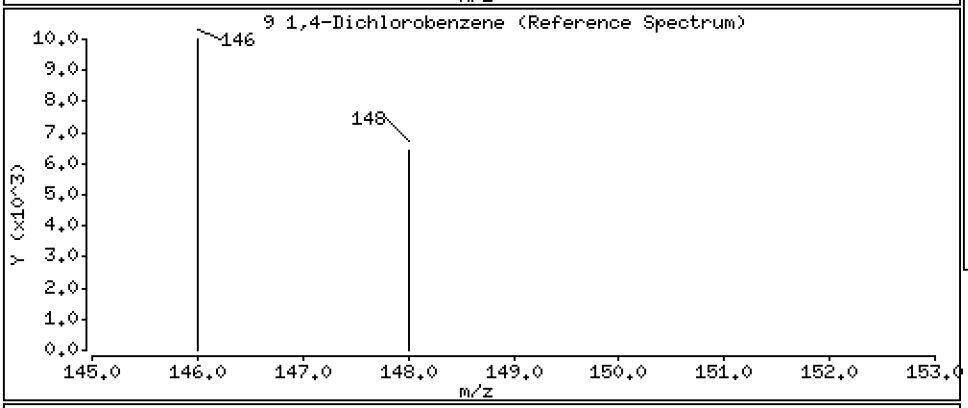
Concentration: 0.1125 ug/L

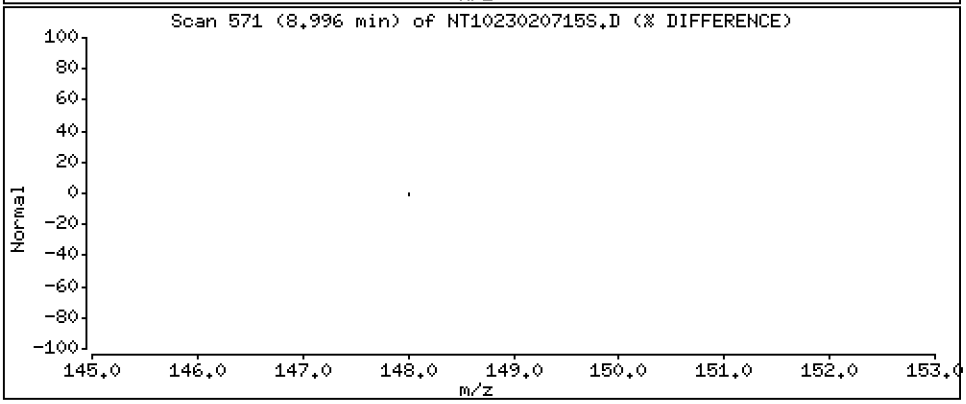












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207155S.D

Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

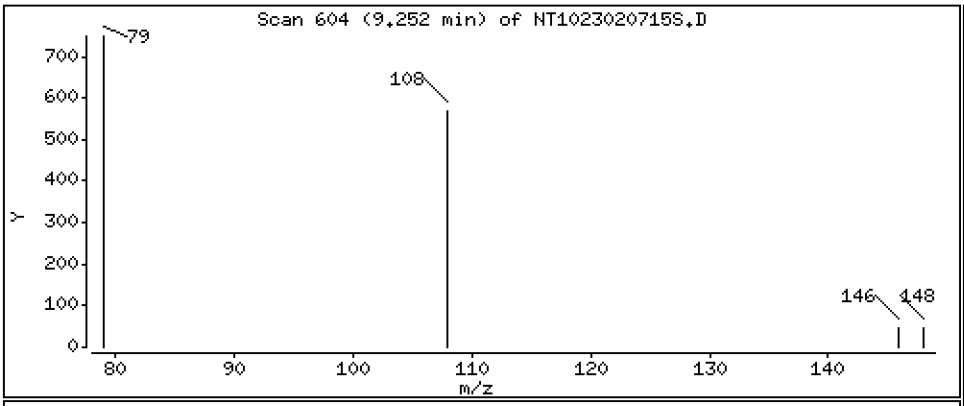
Operator: DSD

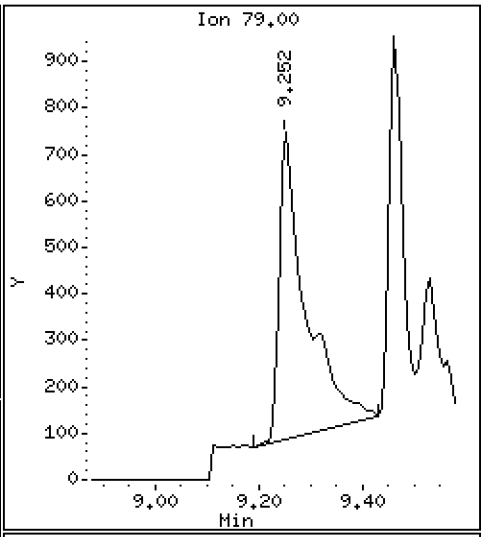
Column phase: ZB-5msi

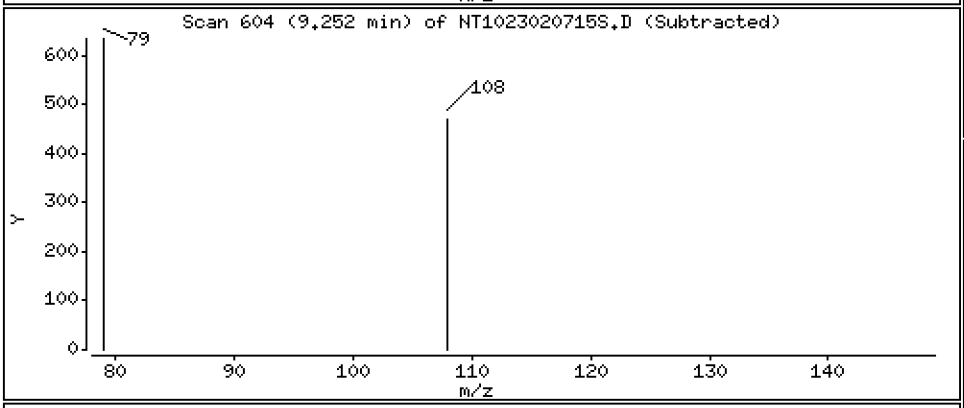
Column diameter: 0.25

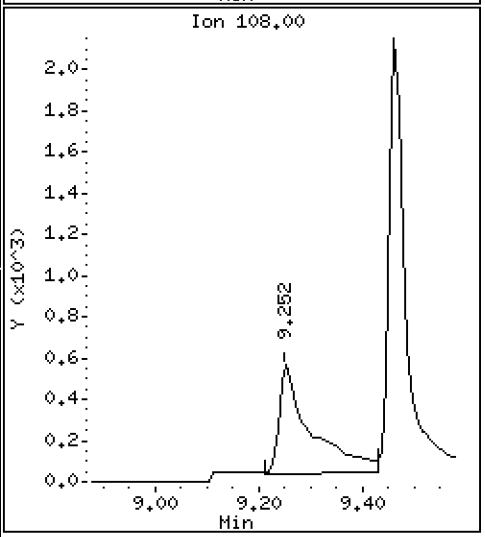
11 Benzyl alcohol

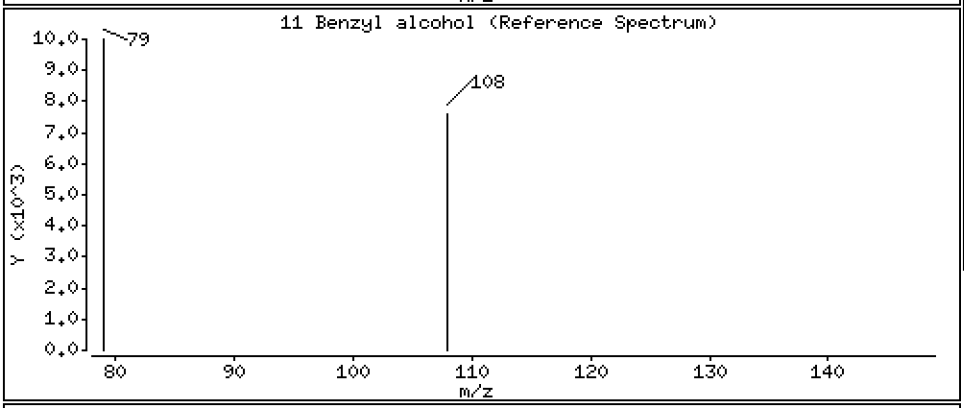
Concentration: 0.07724 ug/L

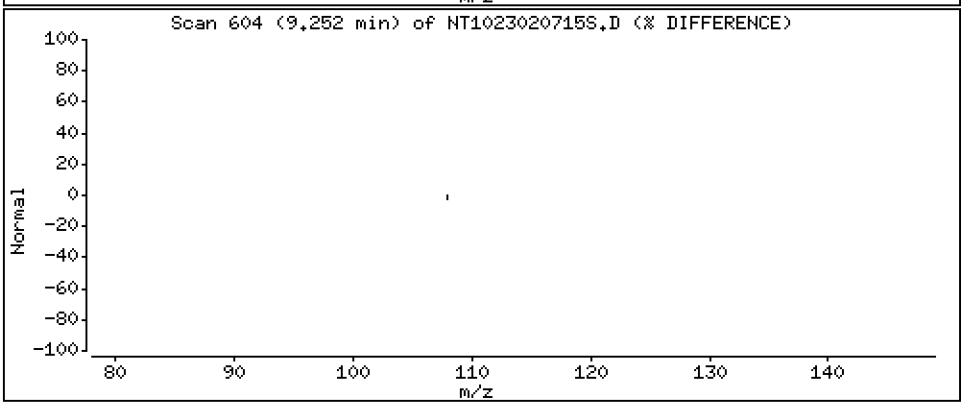












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

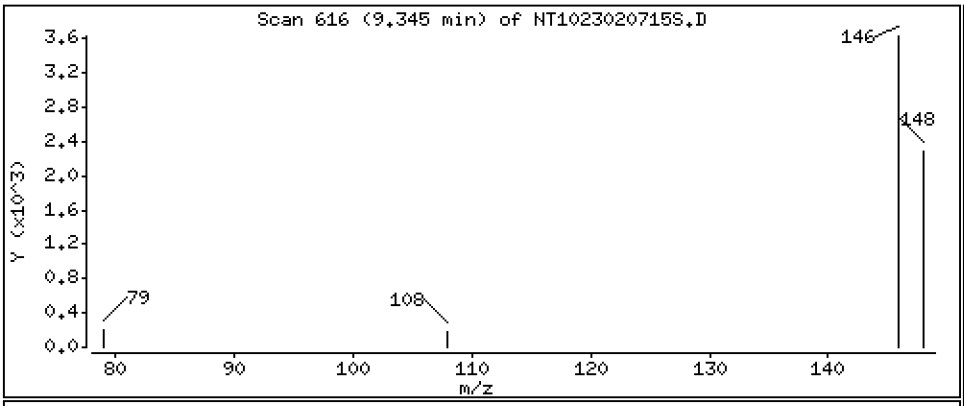
Operator: DSD

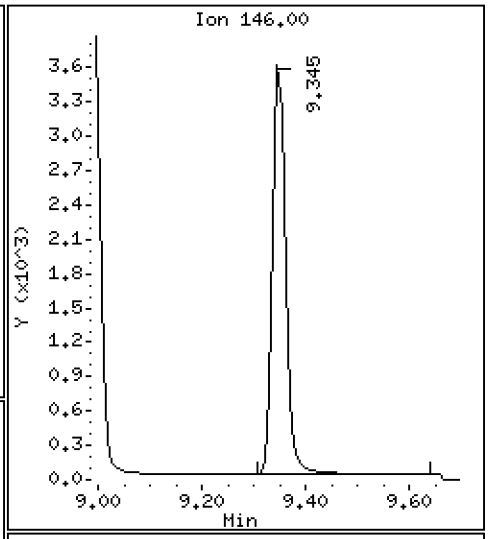
Column phase: ZB-5msi

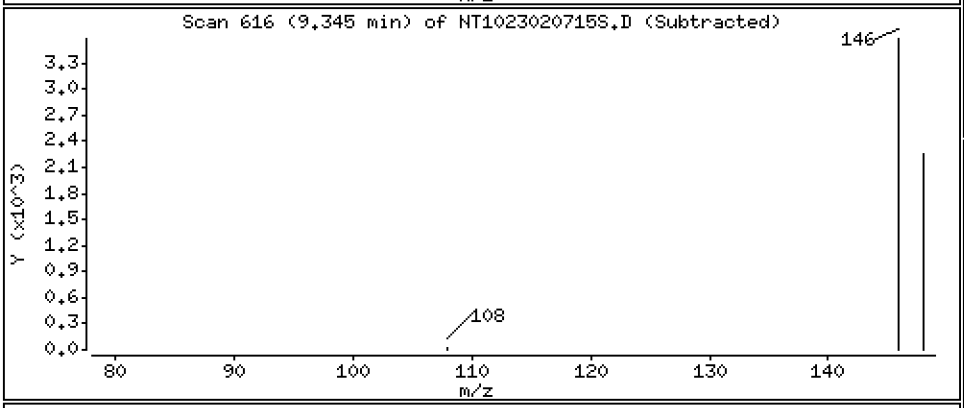
Column diameter: 0.25

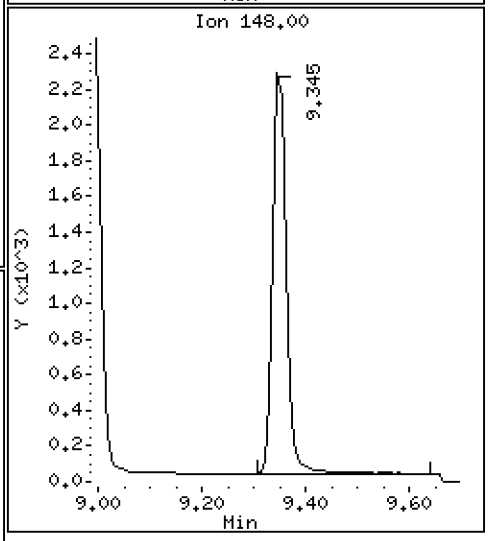
12 1,2-Dichlorobenzene

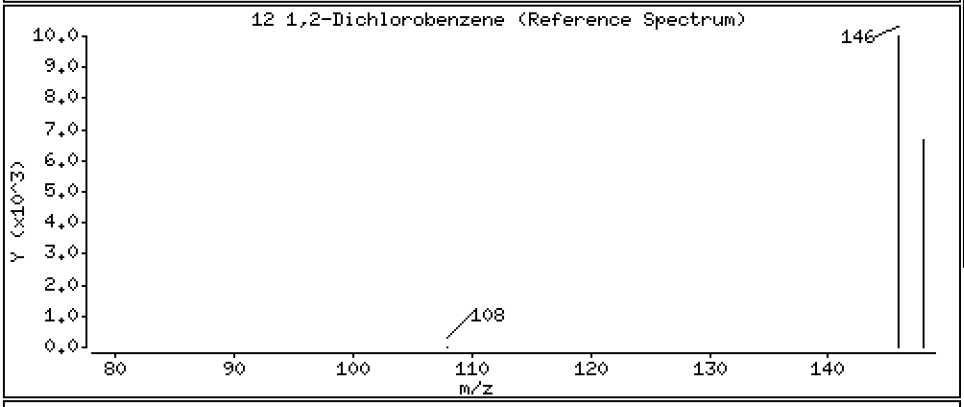
Concentration: 0.1115 ug/L

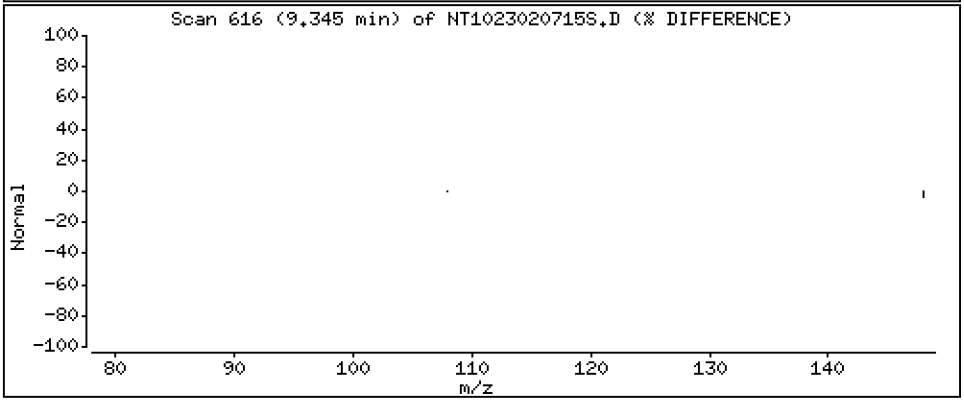












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207155S.D

Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

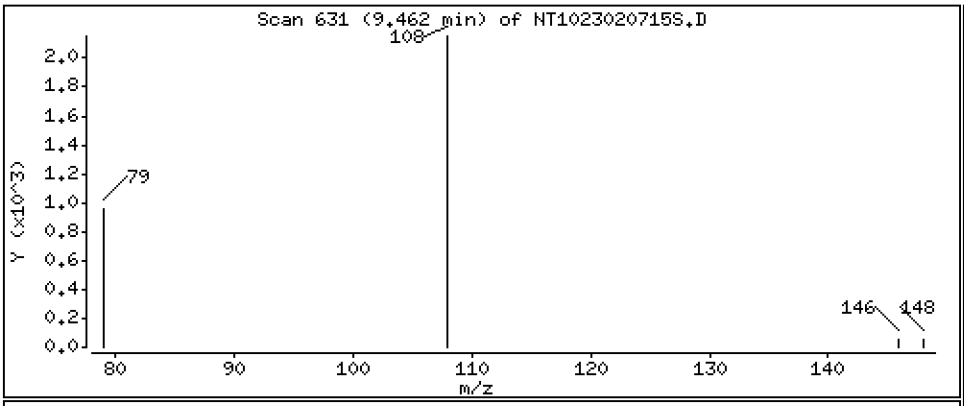
Operator: DSD

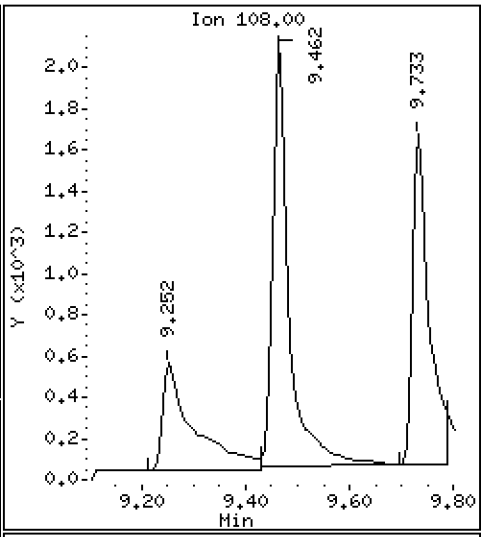
Column phase: ZB-5msi

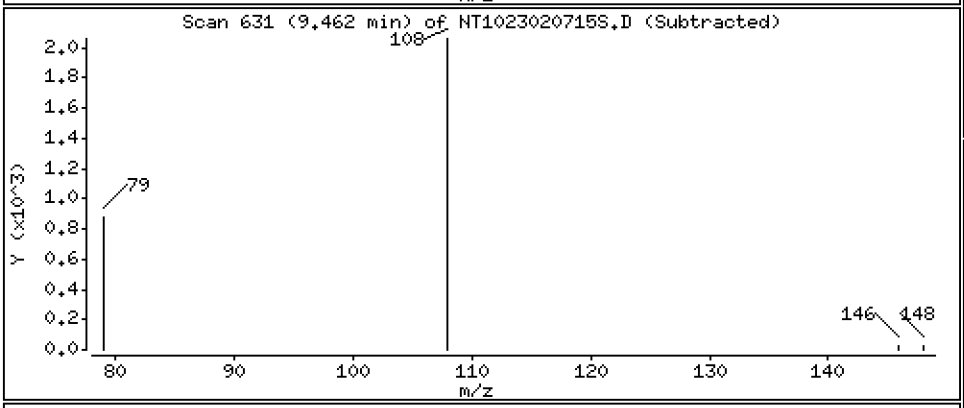
Column diameter: 0.25

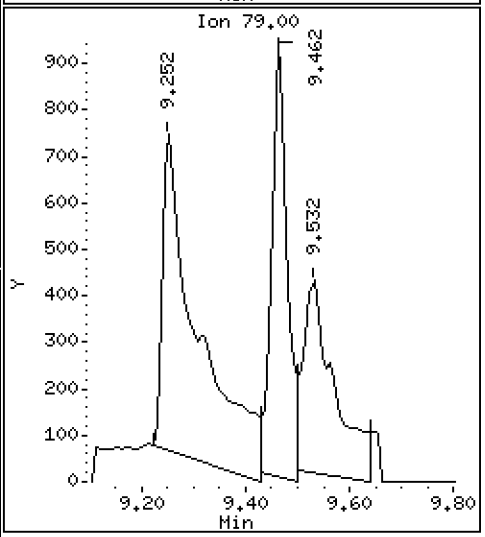
13 2-Methylphenol

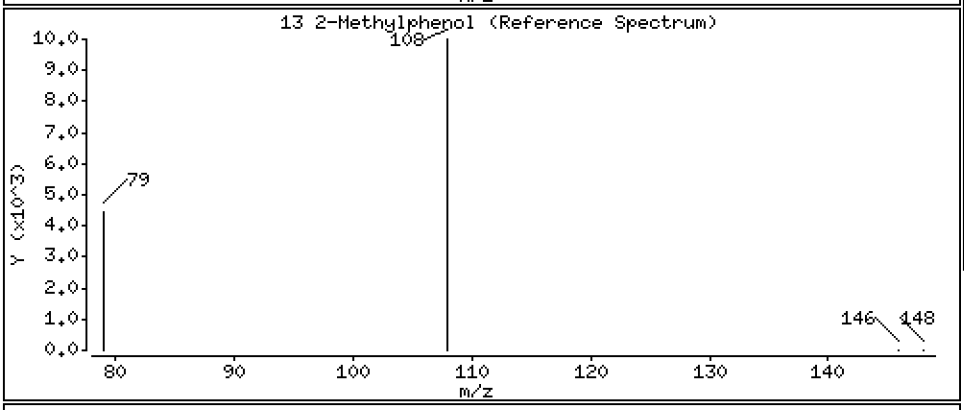
Concentration: 0.1035 ug/L

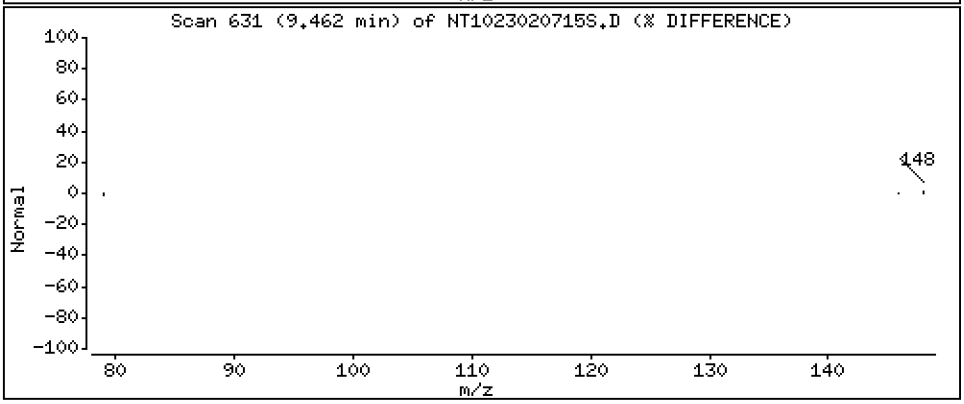












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

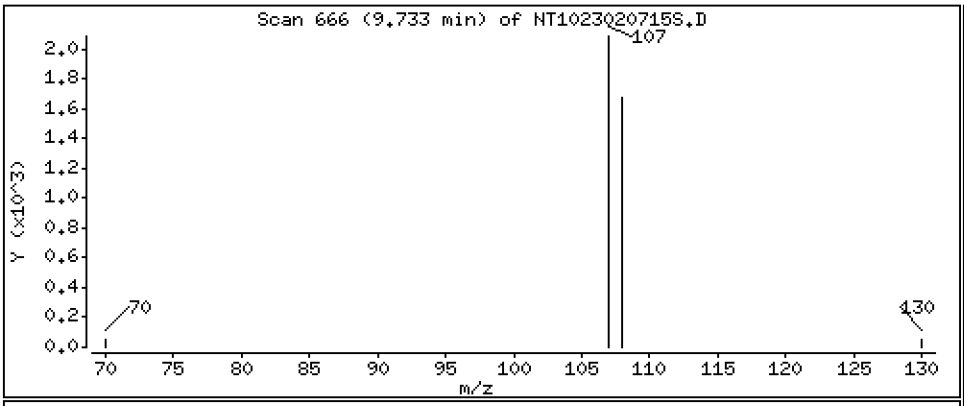
Operator: DSD

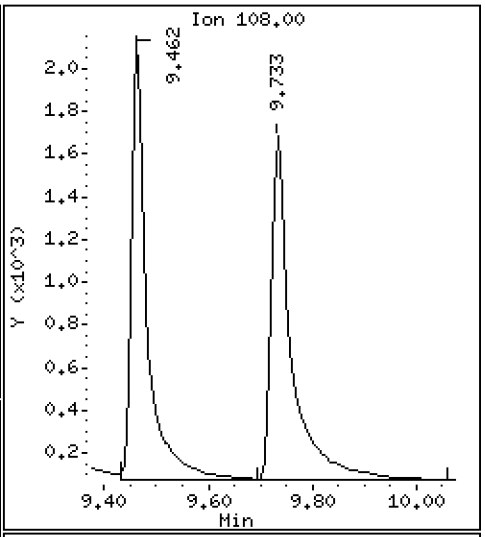
Column phase: ZB-5msi

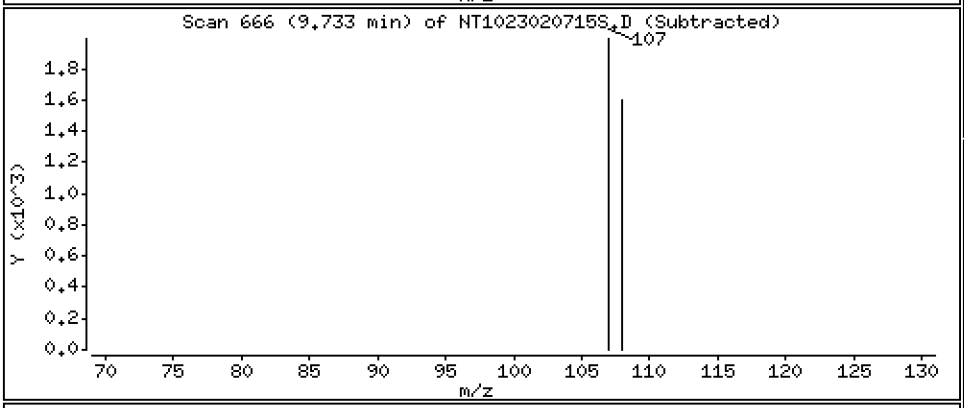
Column diameter: 0.25

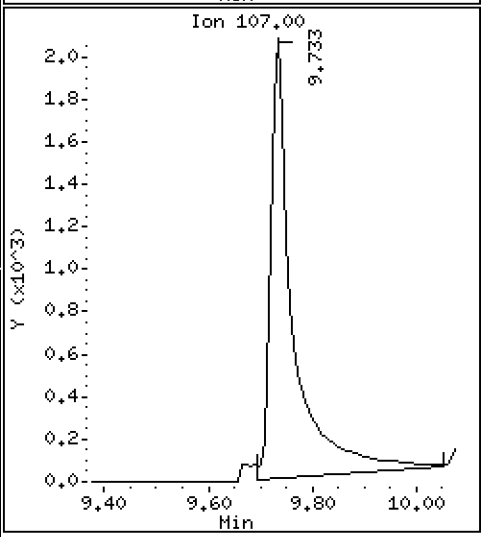
15 4-Methylphenol

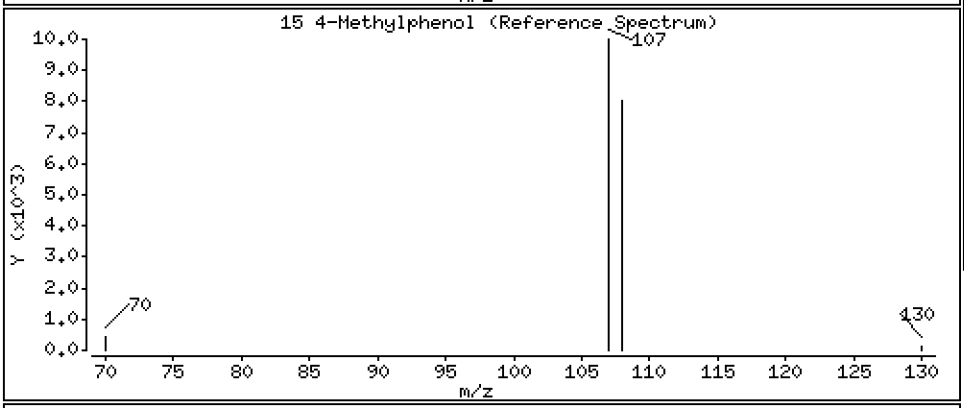
Concentration: 0.09840 ug/L

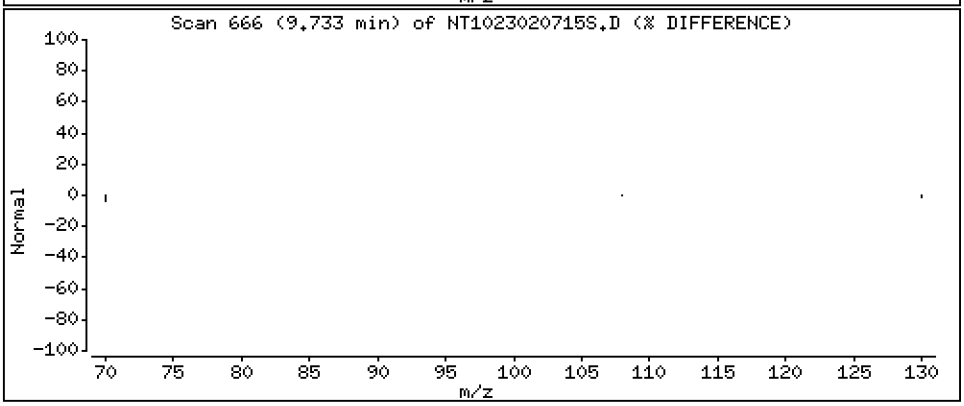












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

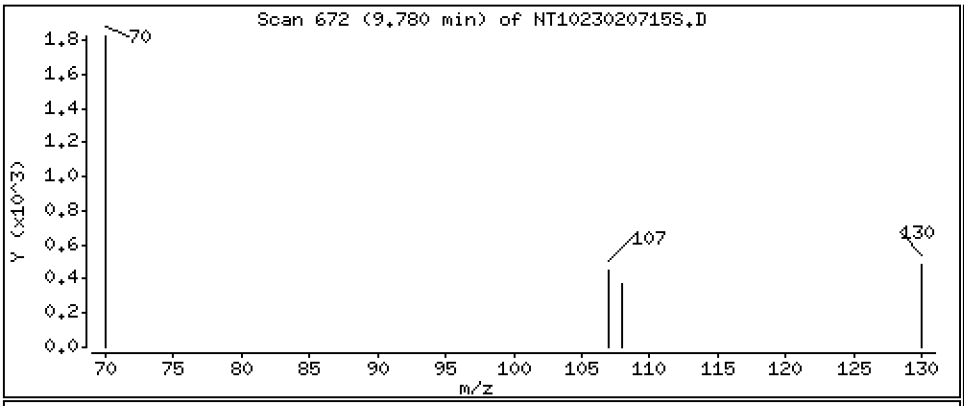
Operator: DSD

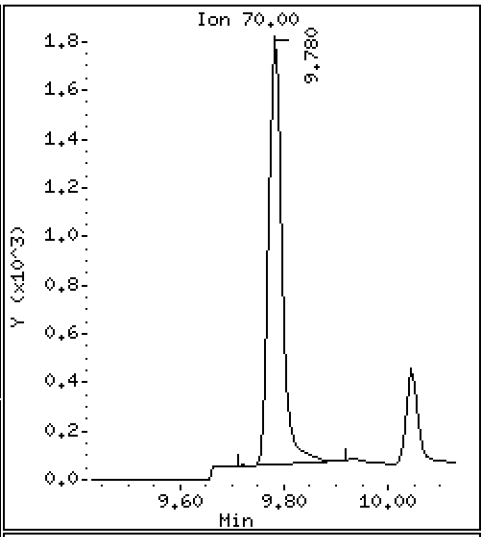
Column phase: ZB-5msi

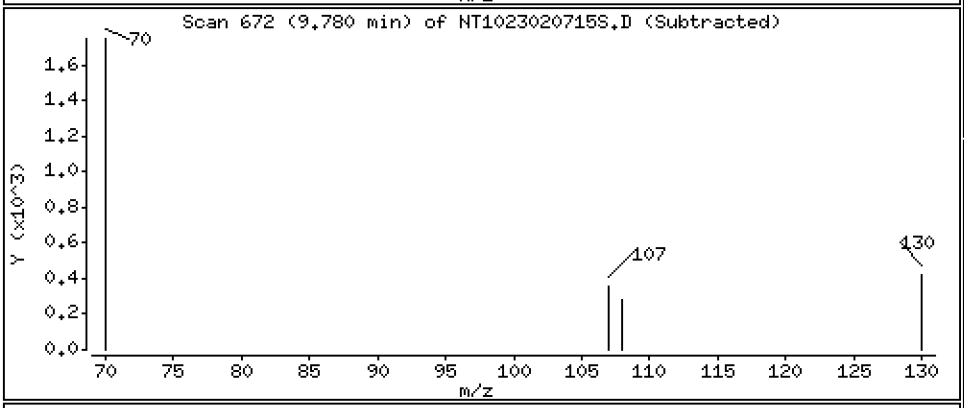
Column diameter: 0.25

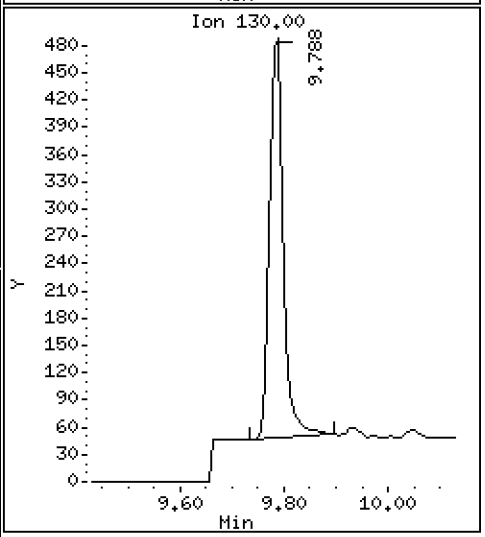
16 N-Nitroso-di-n-propylamine

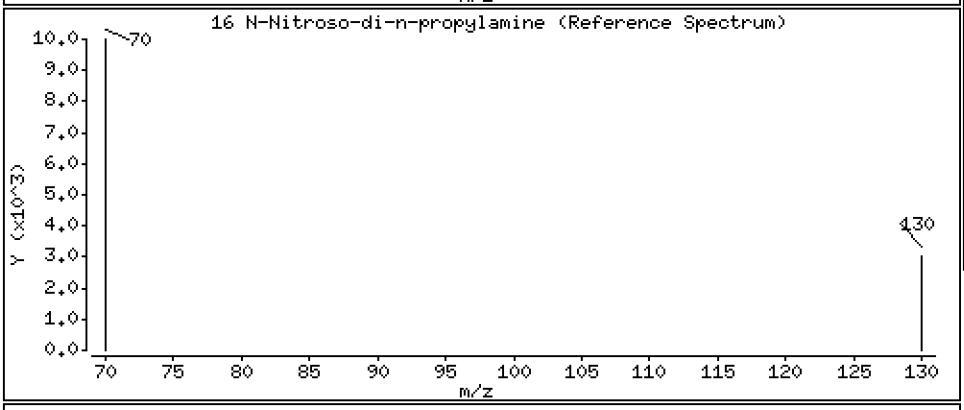
Concentration: 0.09428 ug/L

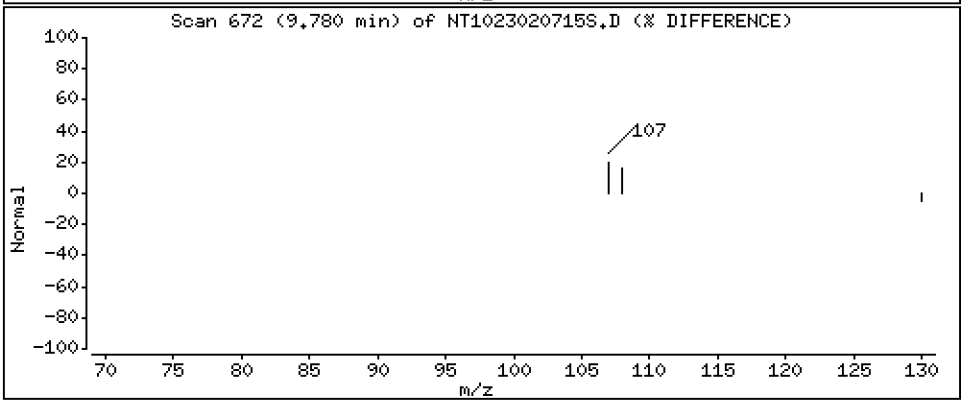












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

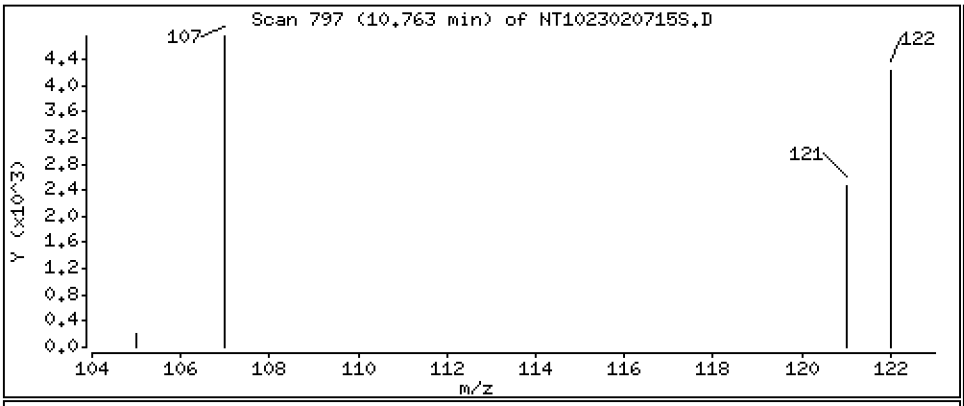
Operator: DSD

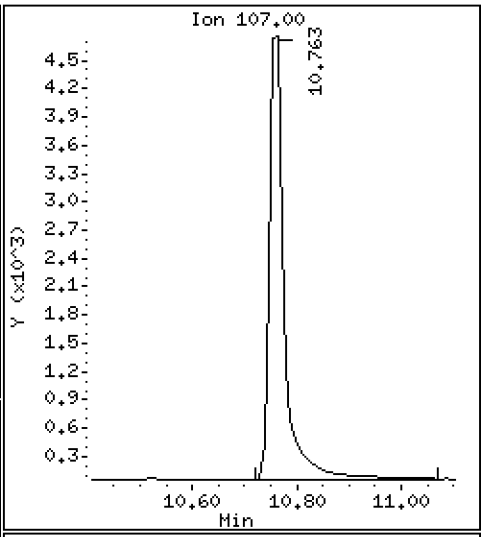
Column phase: ZB-5msi

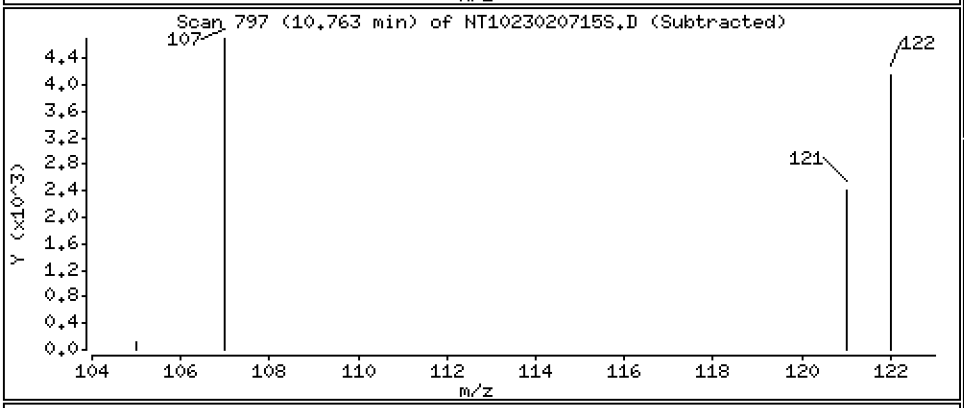
Column diameter: 0.25

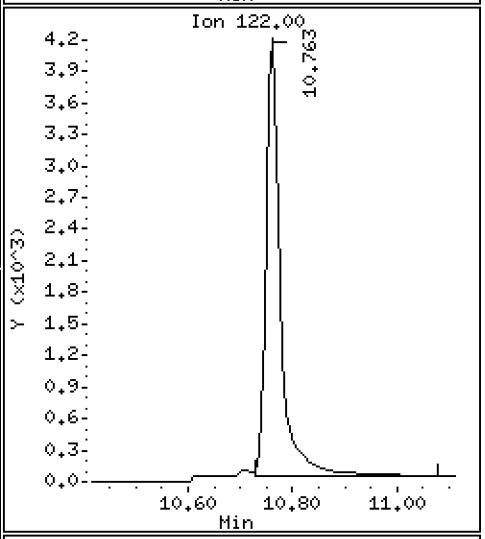
22 2,4-Dimethylphenol

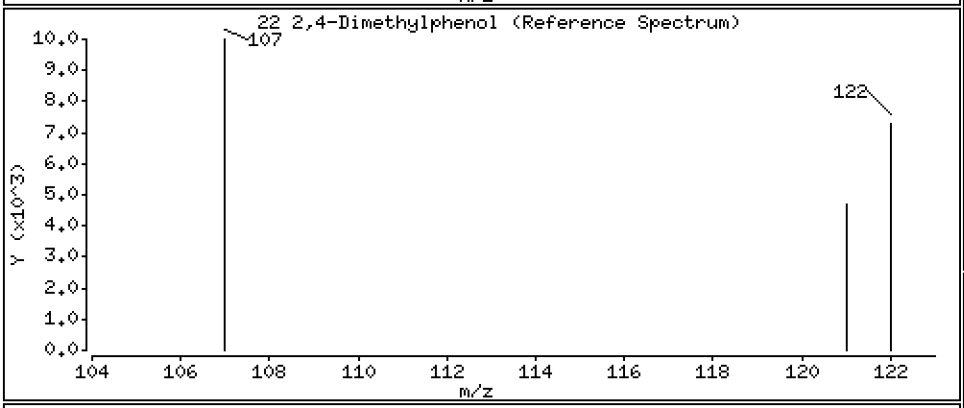
Concentration: 0.2172 ug/L

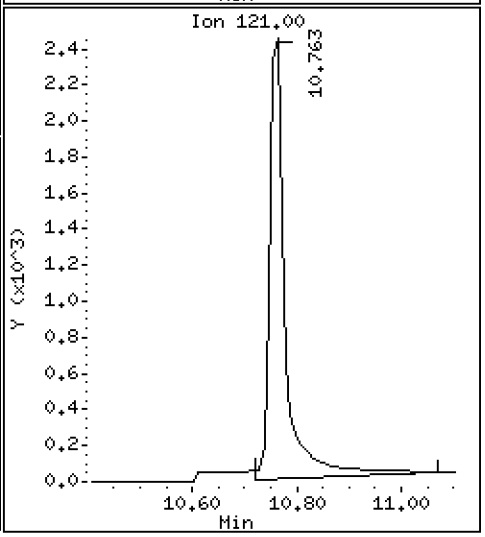


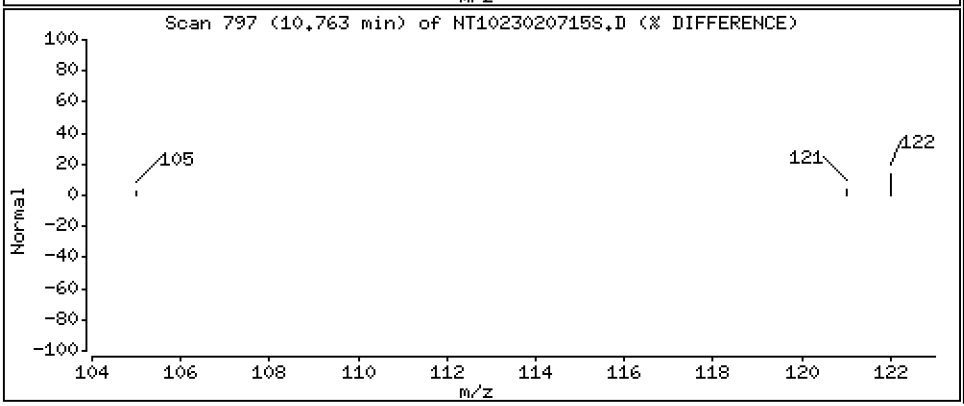












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

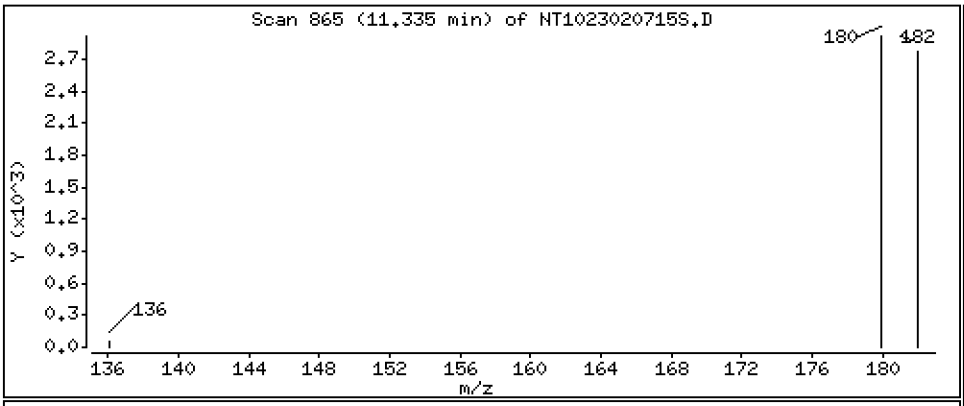
Operator: DSD

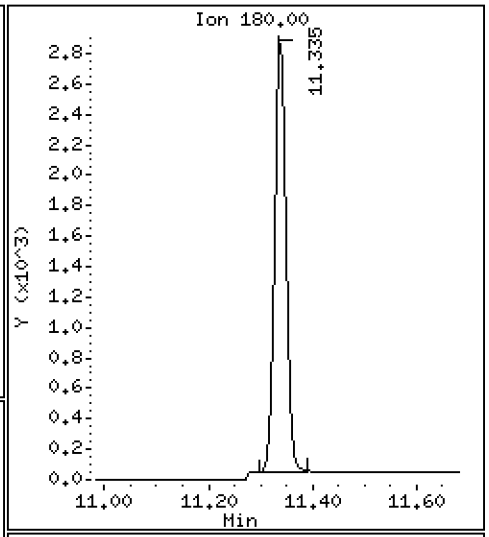
Column phase: ZB-5msi

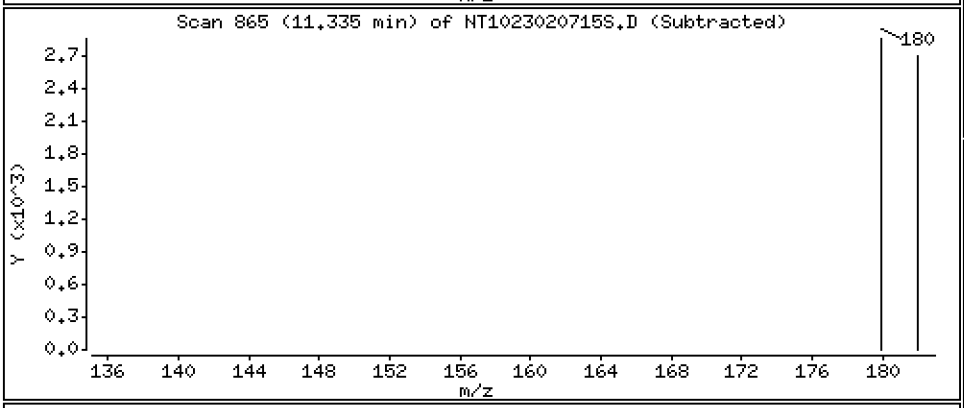
Column diameter: 0.25

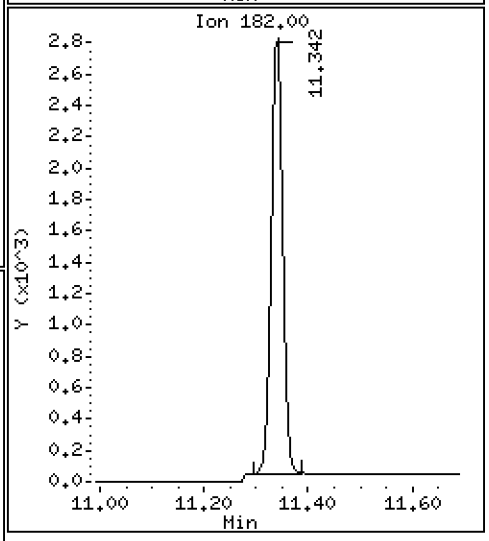
26 1,2,4-Trichlorobenzene

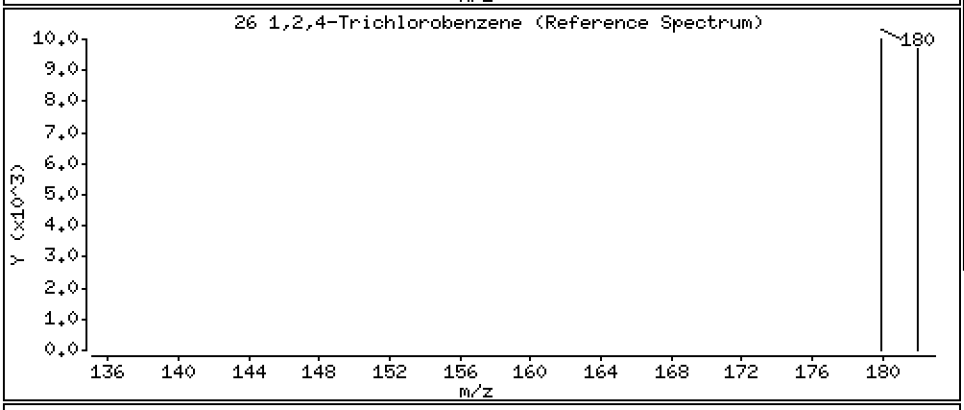
Concentration: 0.1120 ug/L

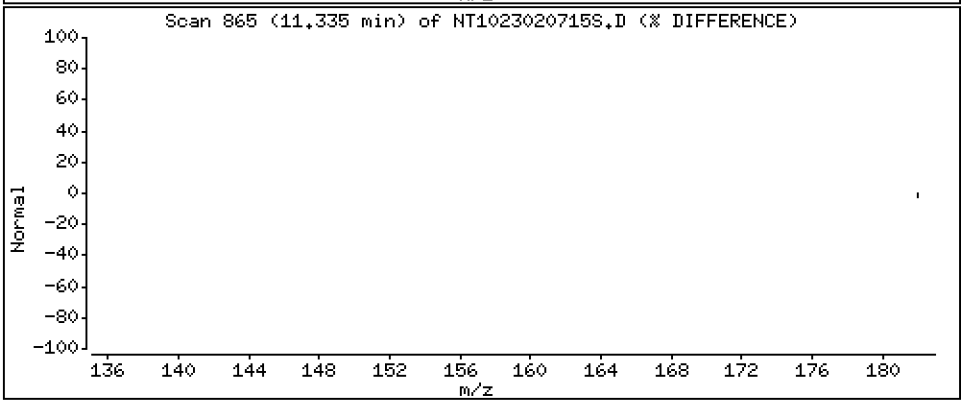












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

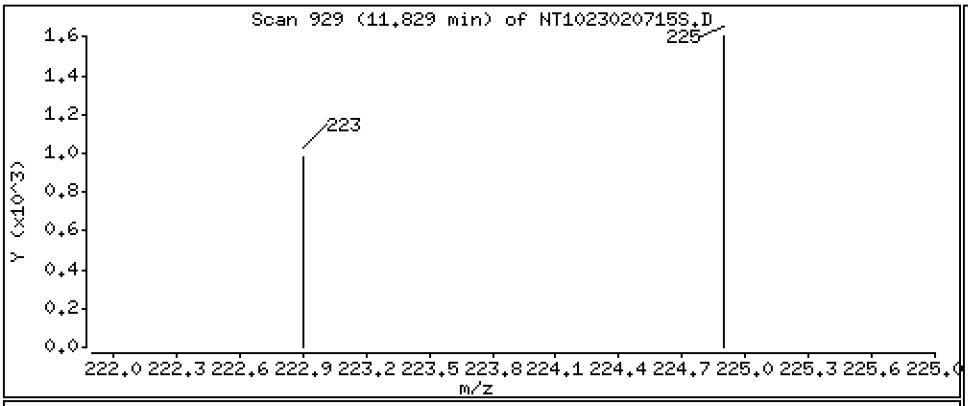
Operator: DSD

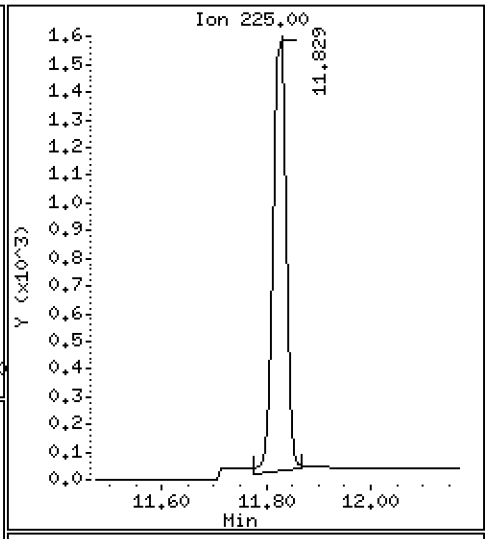
Column phase: ZB-5msi

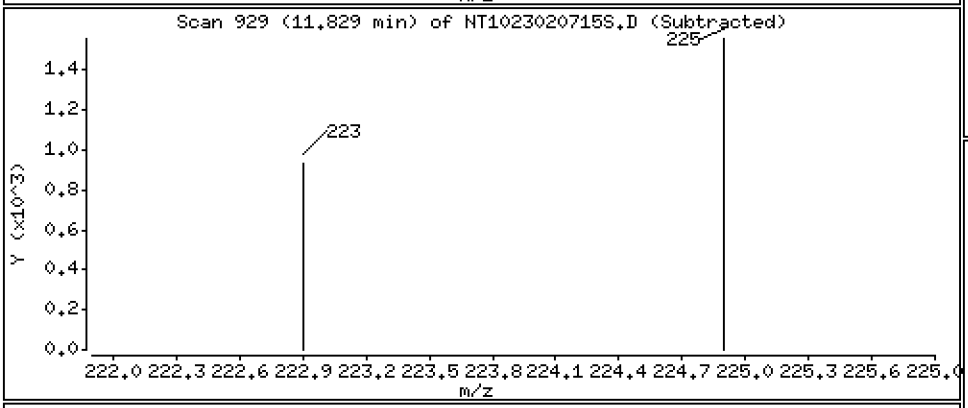
Column diameter: 0.25

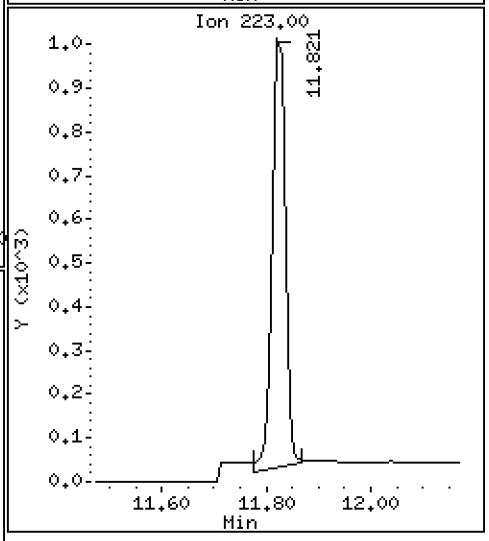
30 Hexachlorobutadiene

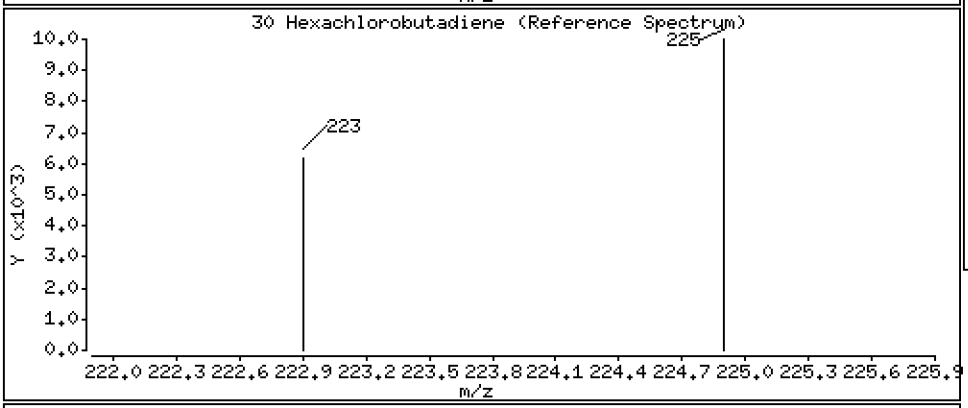
Concentration: 0.1152 ug/L

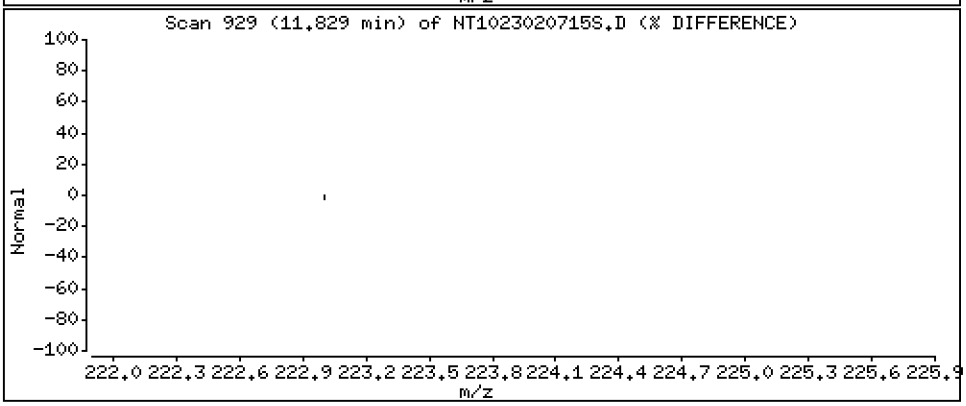












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

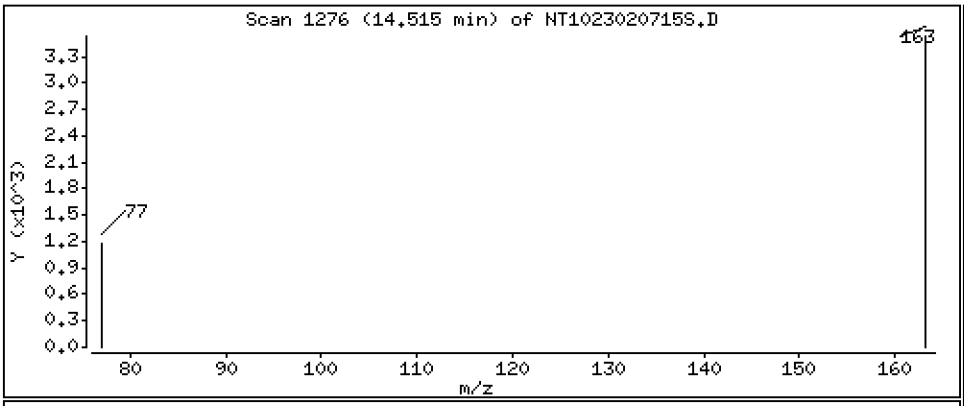
Operator: DSD

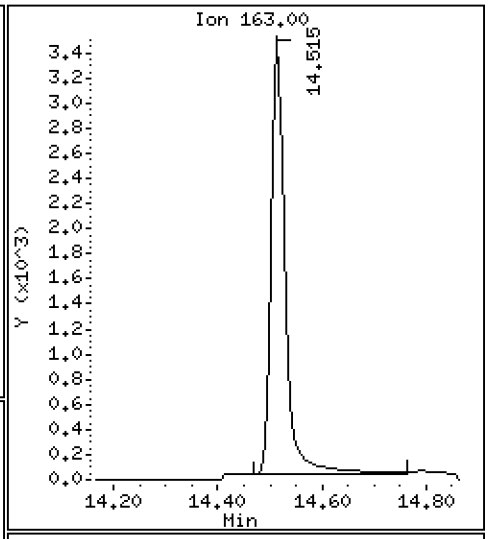
Column phase: ZB-5msi

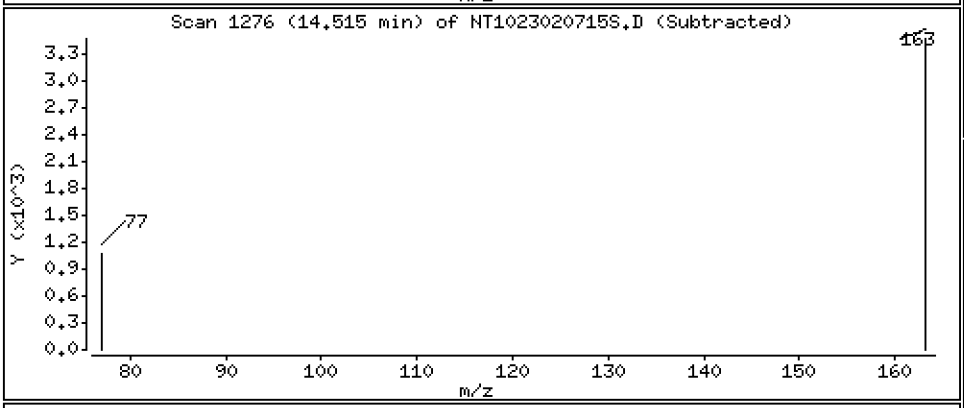
Column diameter: 0.25

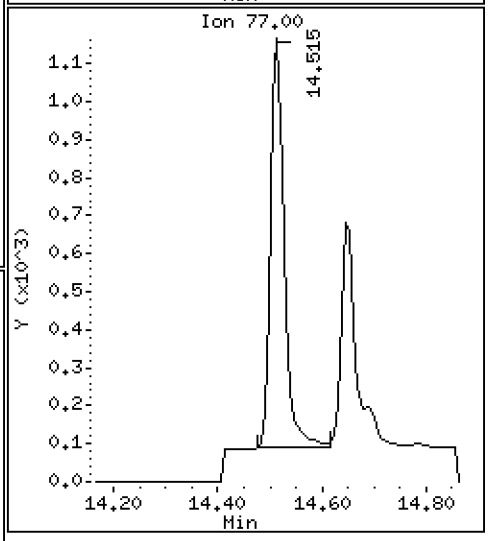
39 Dimethylphthalate

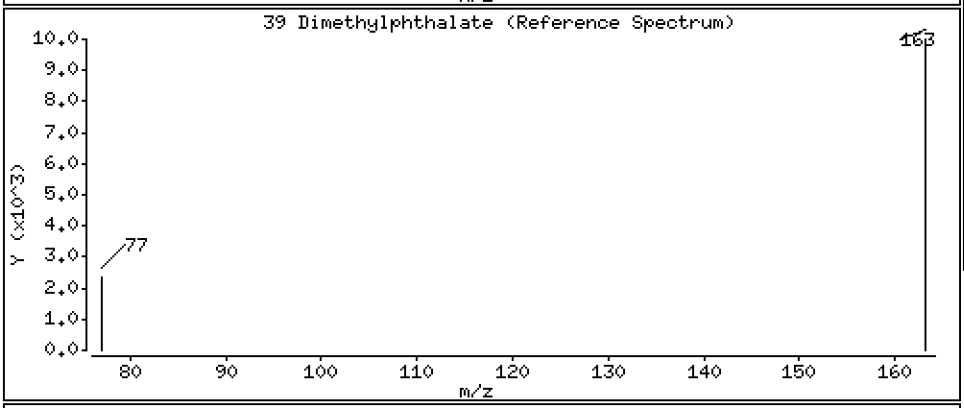
Concentration: 0.1077 ug/L

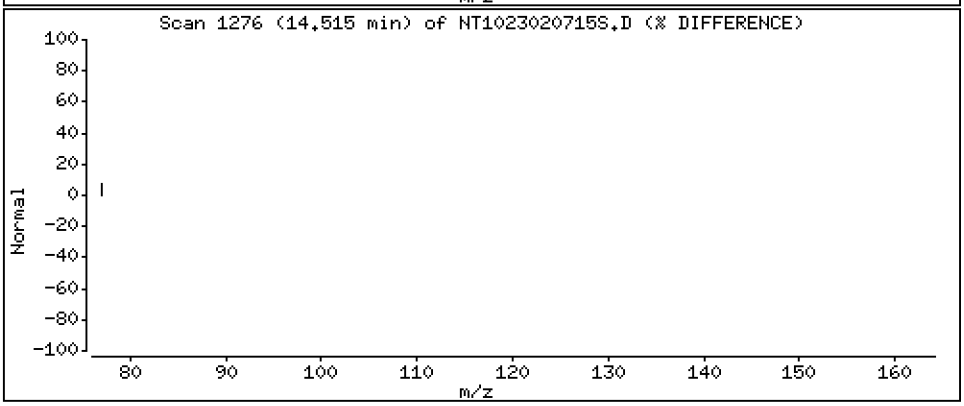












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

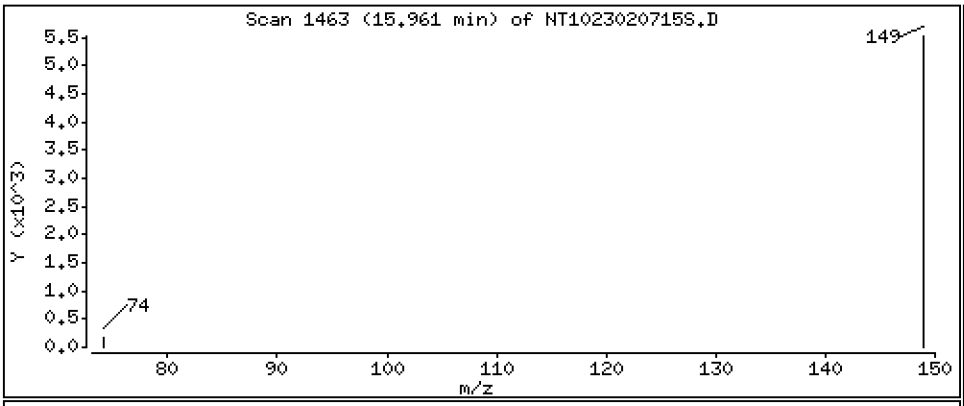
Operator: DSD

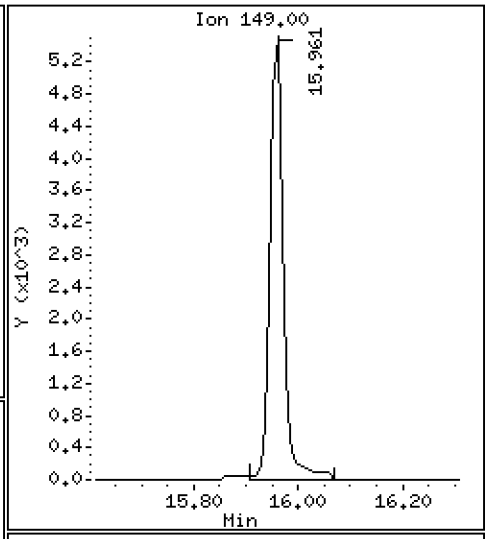
Column phase: ZB-5msi

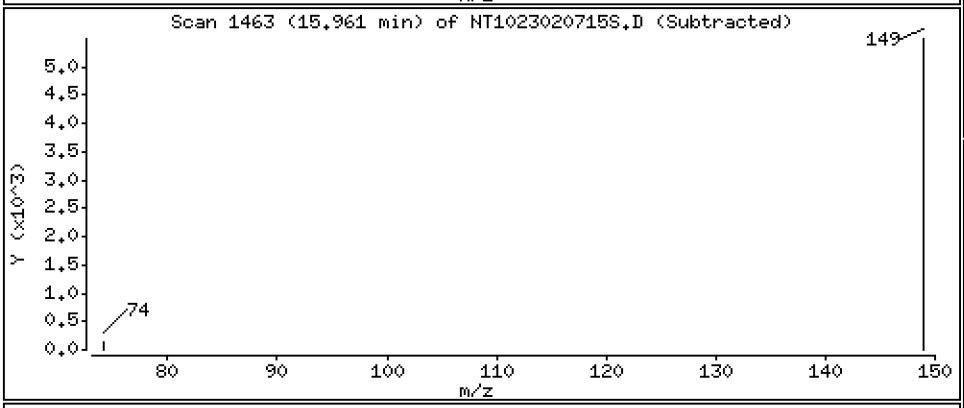
Column diameter: 0.25

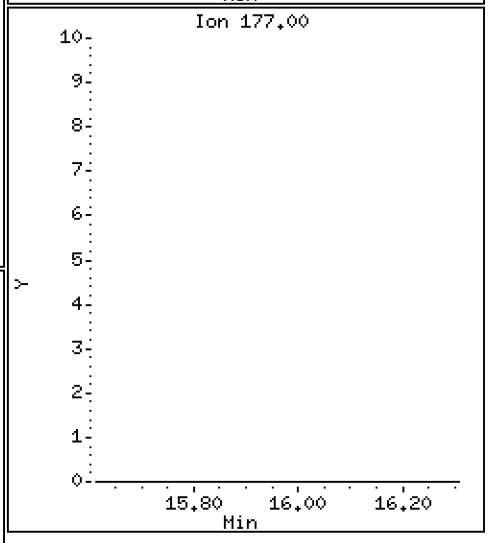
50 Diethylphthalate

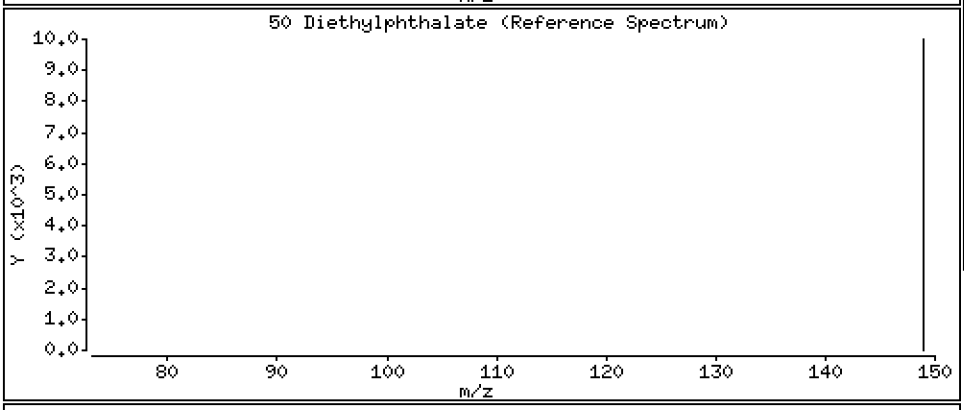
Concentration: 0.1087 ug/L

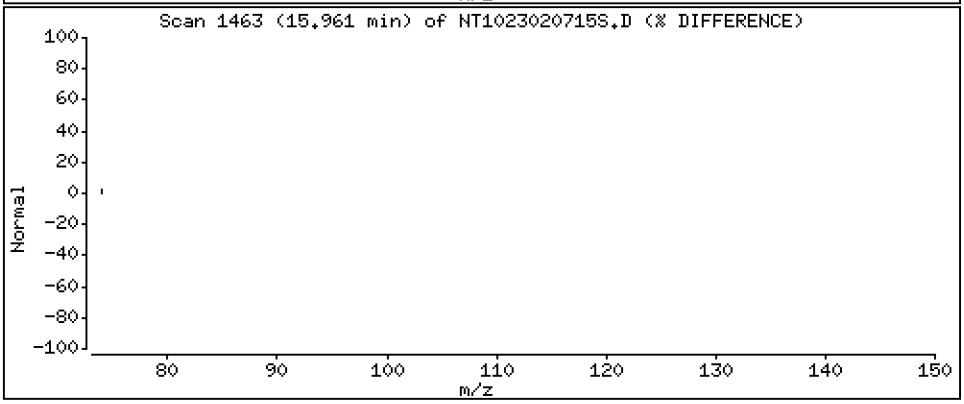












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

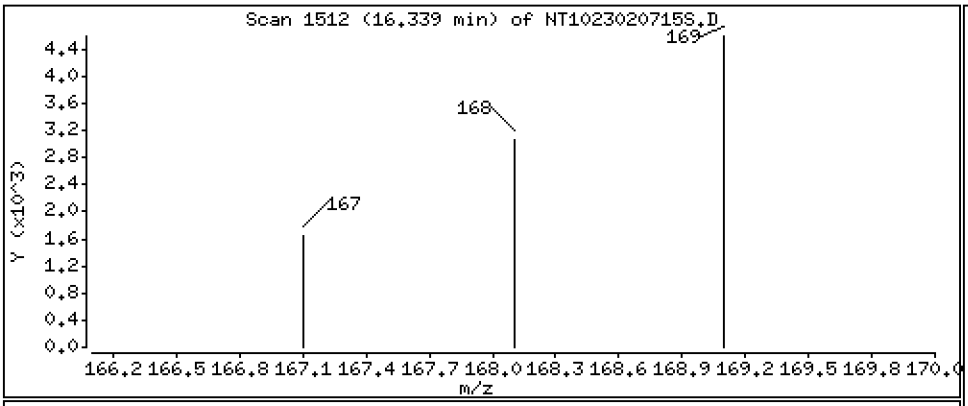
Operator: DSD

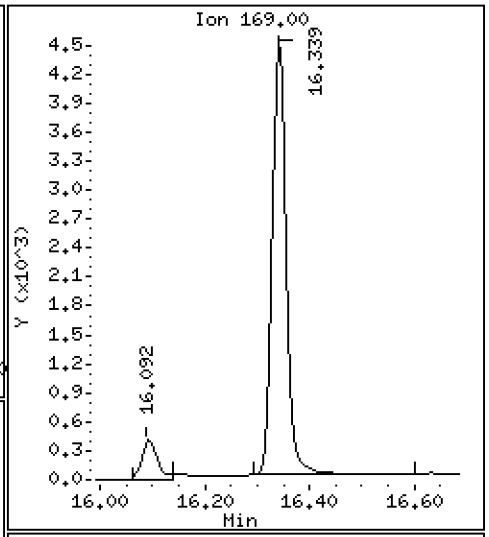
Column phase: ZB-5msi

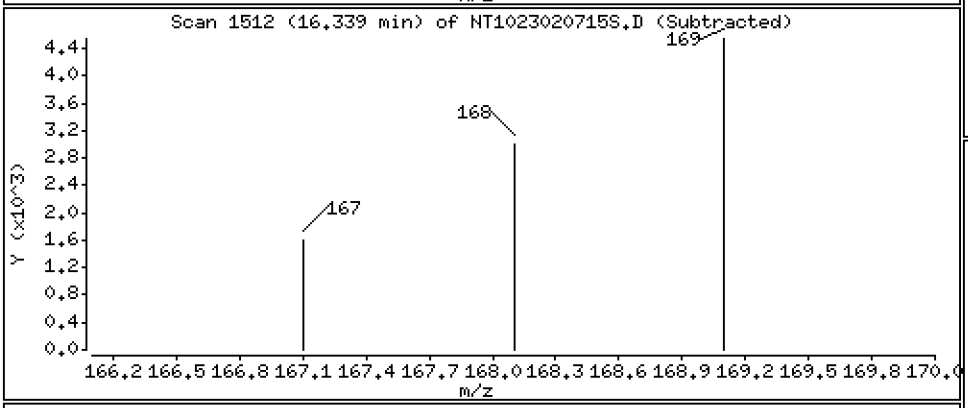
Column diameter: 0.25

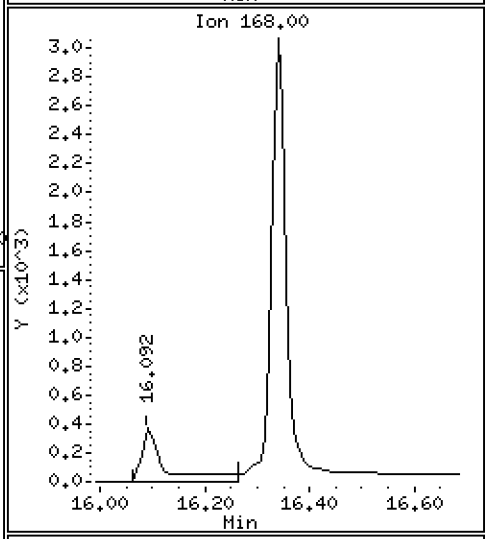
54 N-Nitrosodiphenylamine

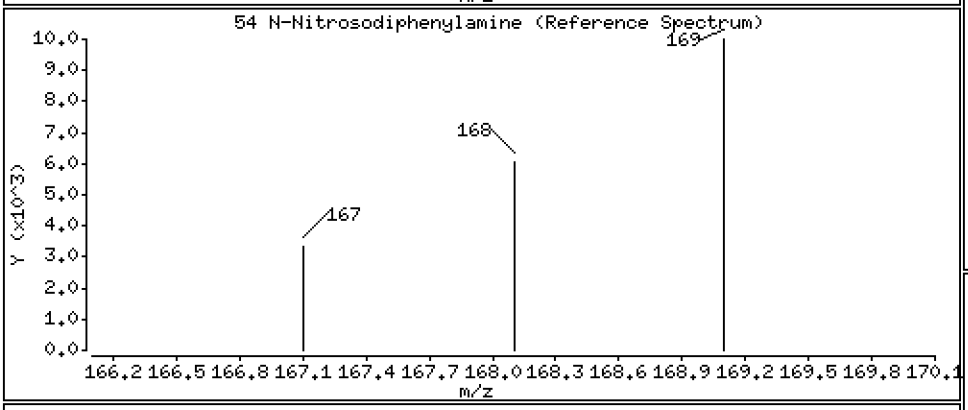
Concentration: 0.1081 ug/L

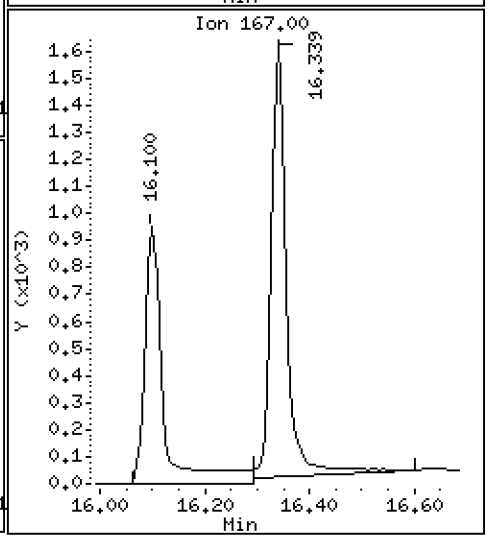


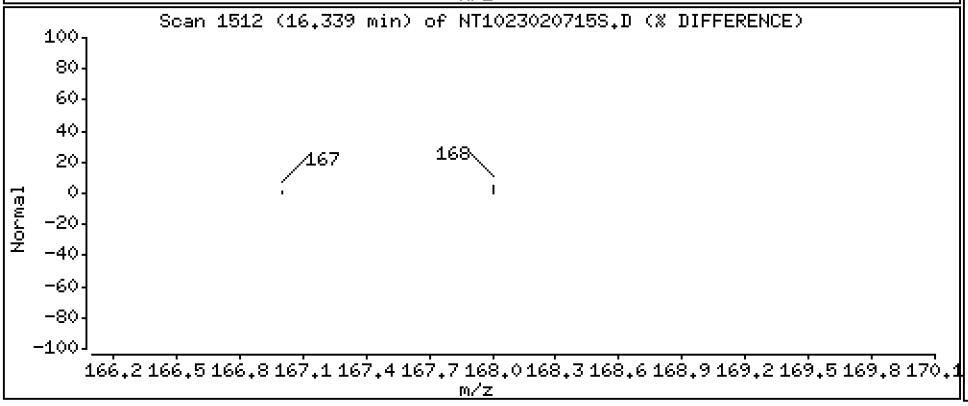












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

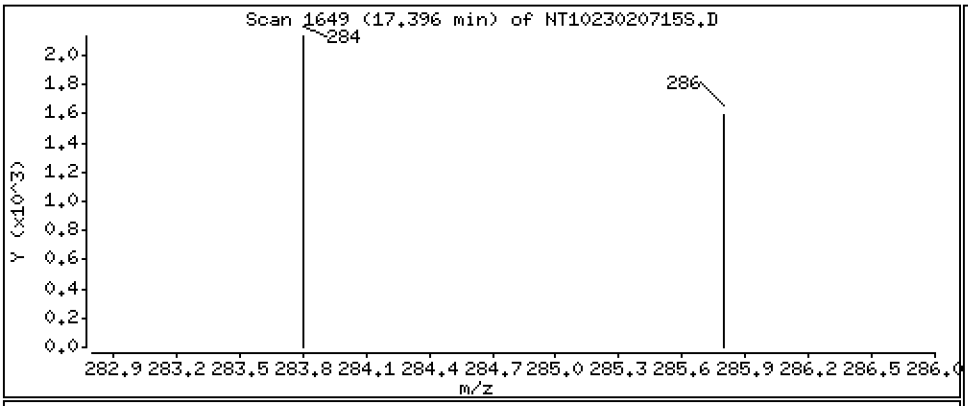
Operator: DSD

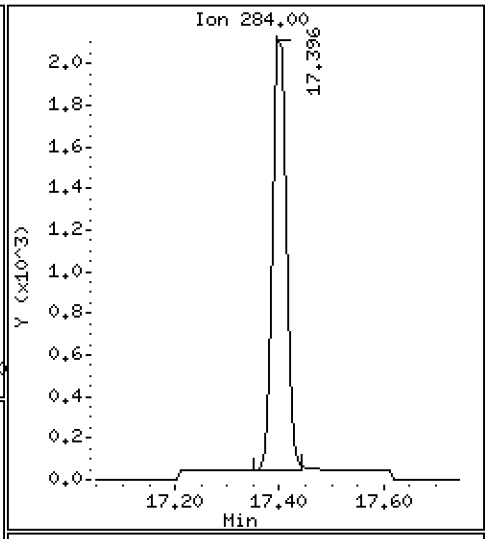
Column phase: ZB-5msi

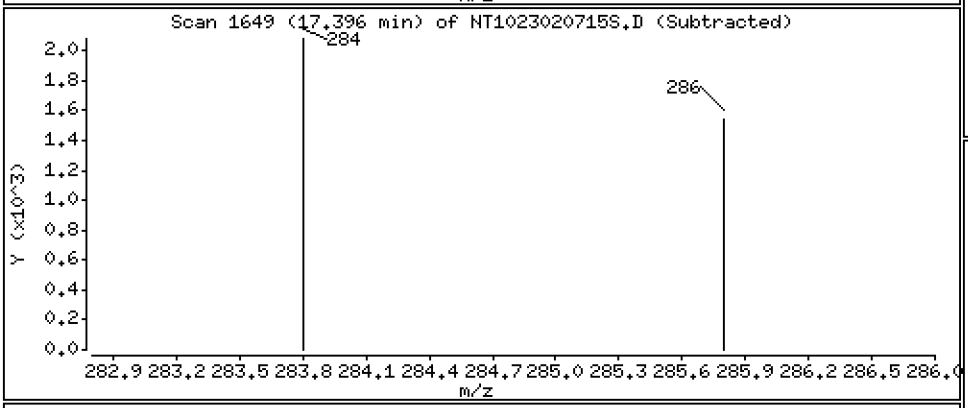
Column diameter: 0.25

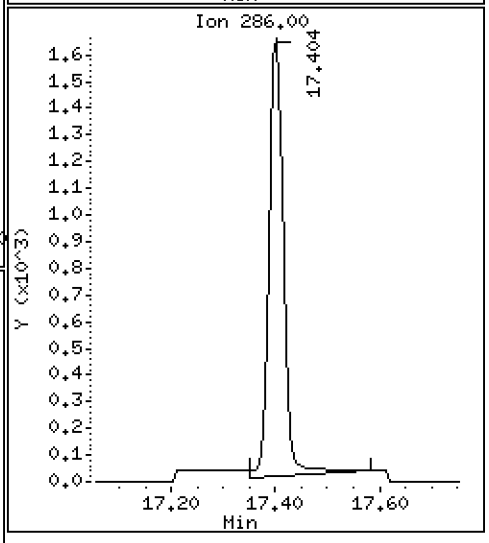
57 Hexachlorobenzene

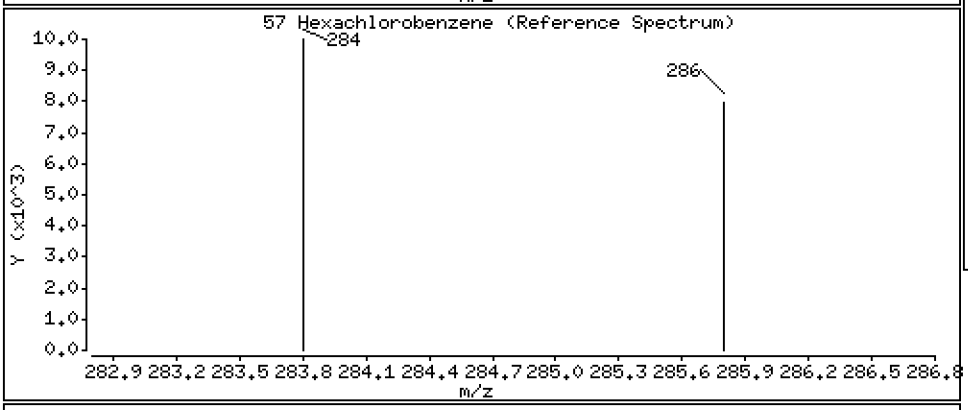
Concentration: 0.1147 ug/L

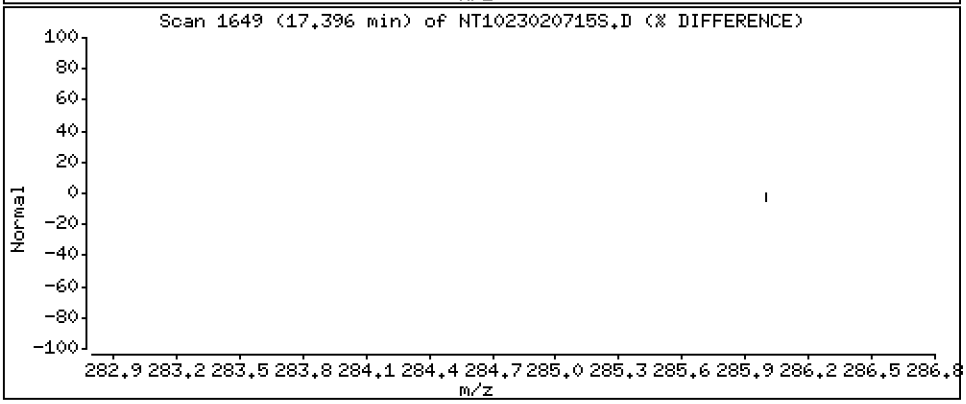












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

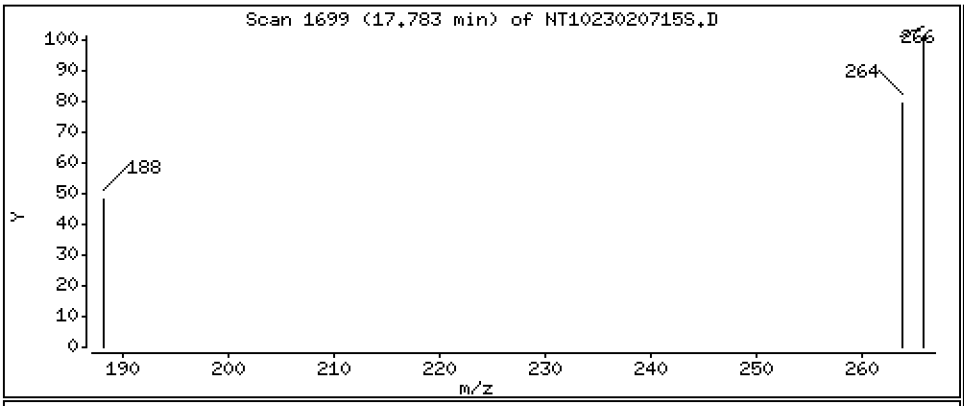
Operator: DSD

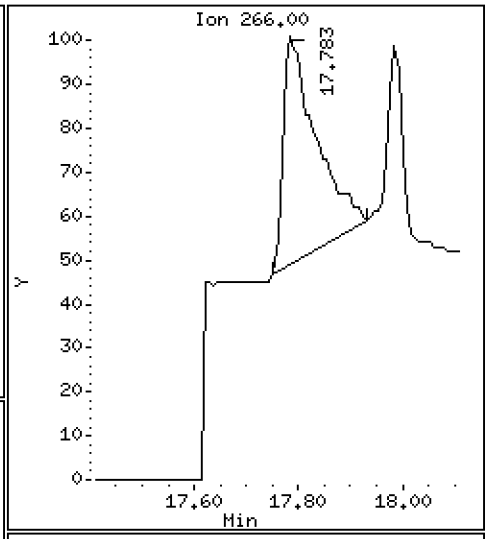
Column phase: ZB-5msi

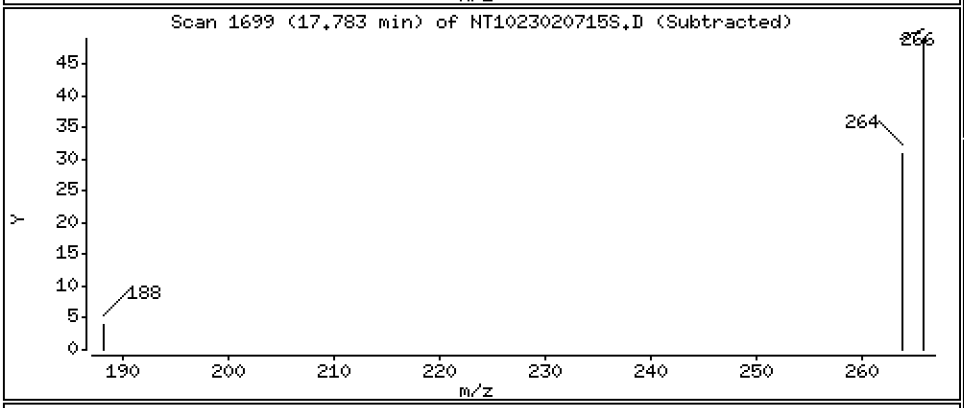
Column diameter: 0.25

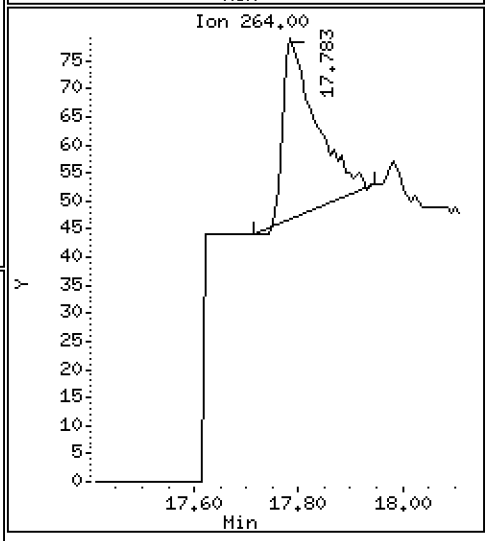
58 Pentachlorophenol

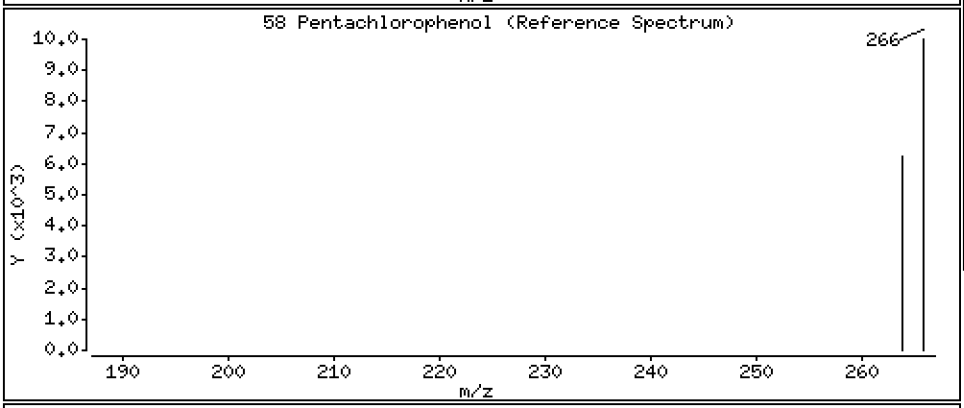
Concentration: 0.02088 ug/L

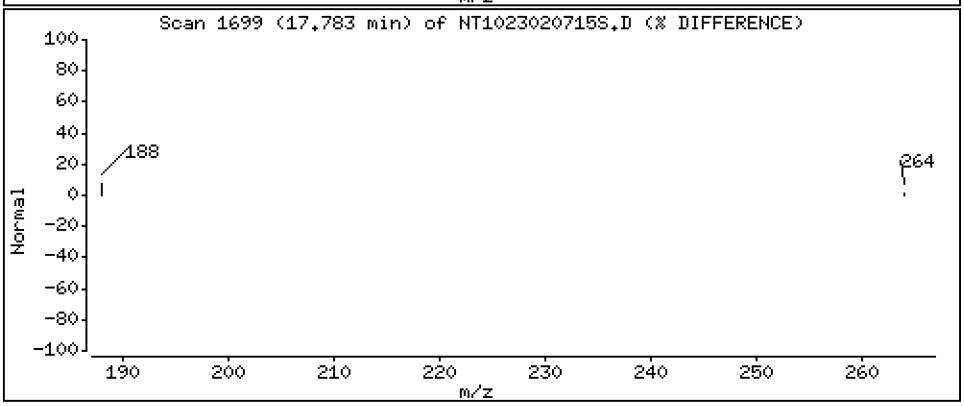












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207155S.D

Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

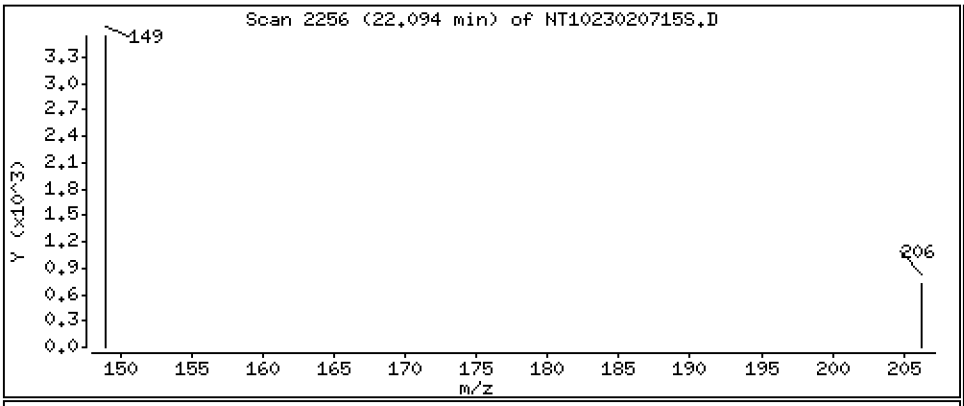
Operator: DSD

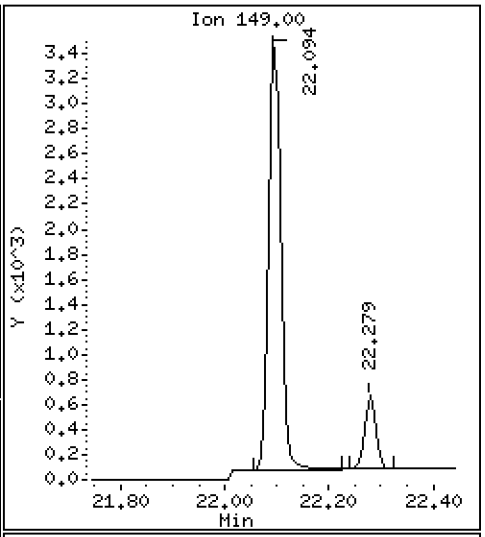
Column phase: ZB-5msi

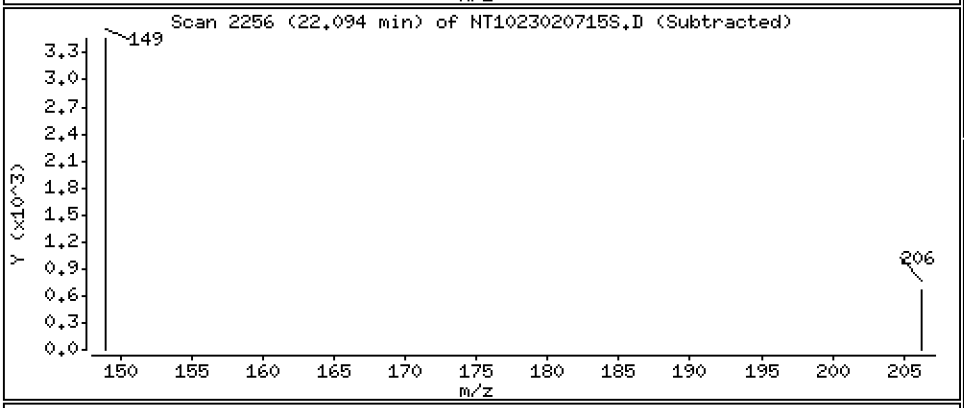
Column diameter: 0.25

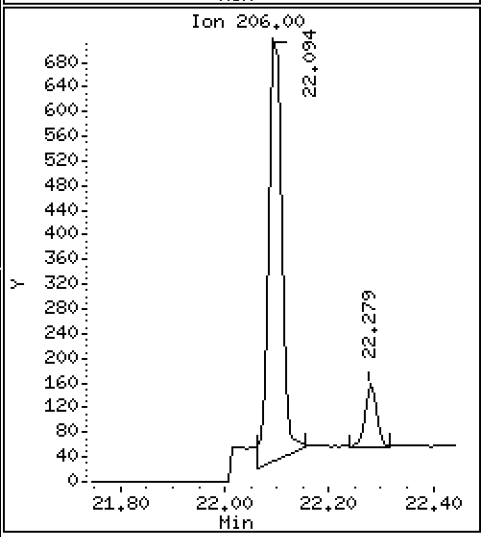
67 Butylbenzylphthalate

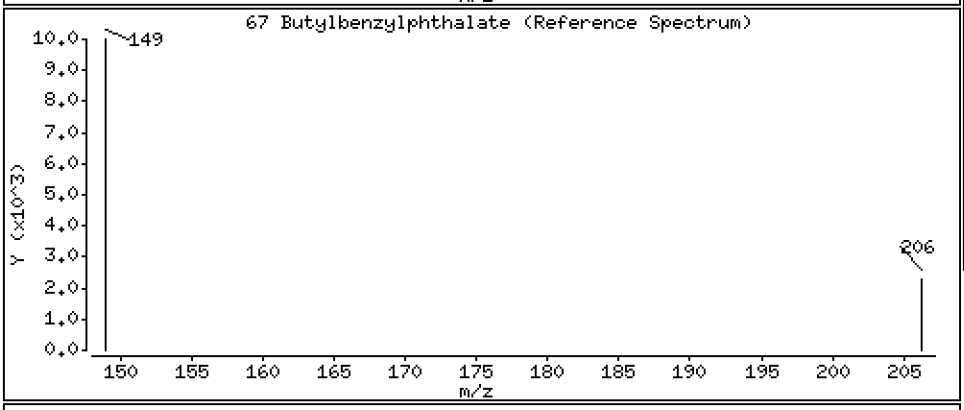
Concentration: 0.09491 ug/L

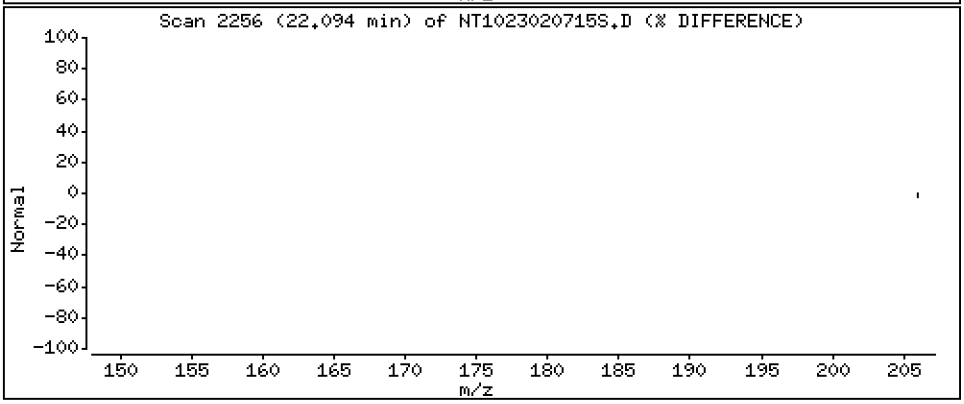












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020715S.D

Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

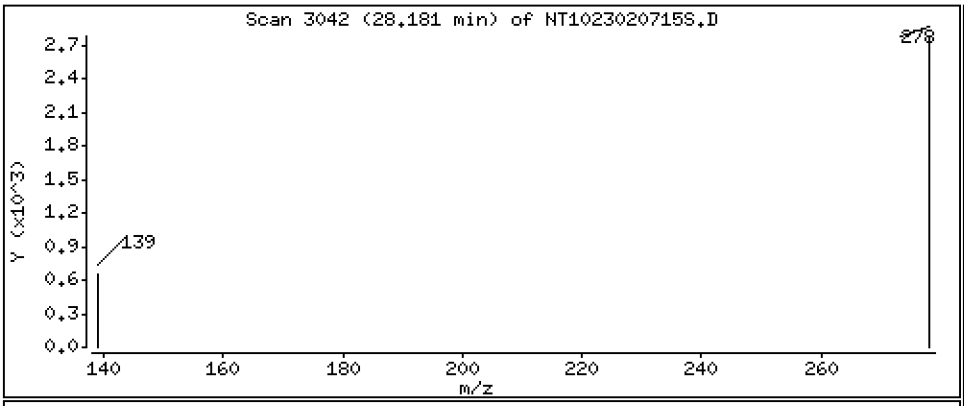
Operator: DSD

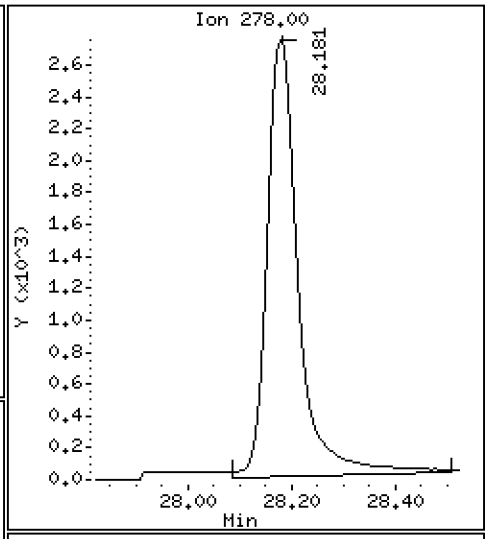
Column phase: ZB-5msi

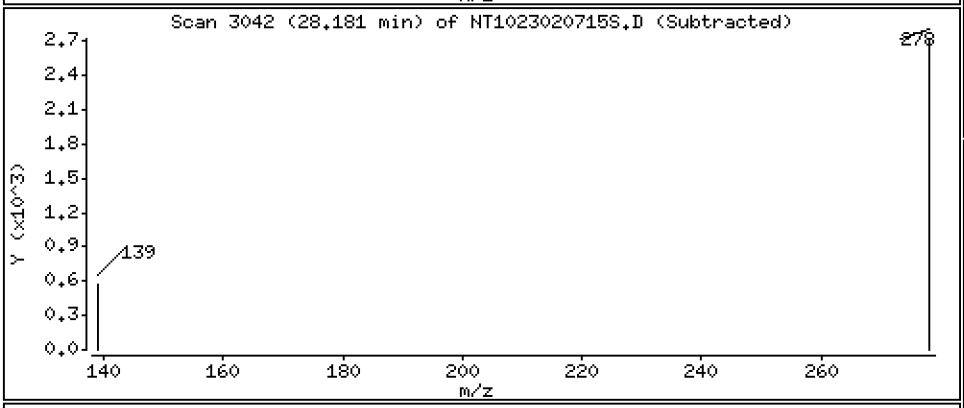
Column diameter: 0.25

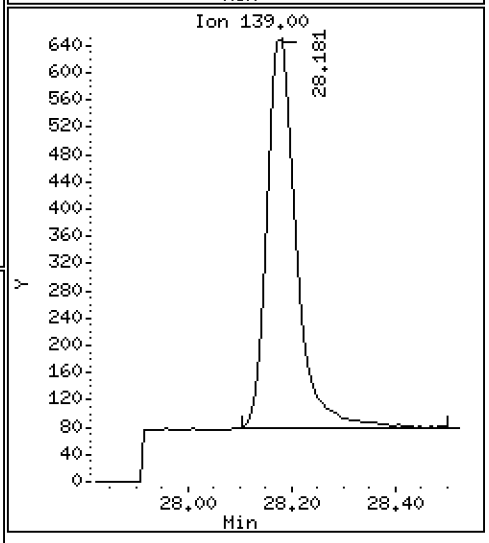
79 Dibenzo(a,h)anthracene

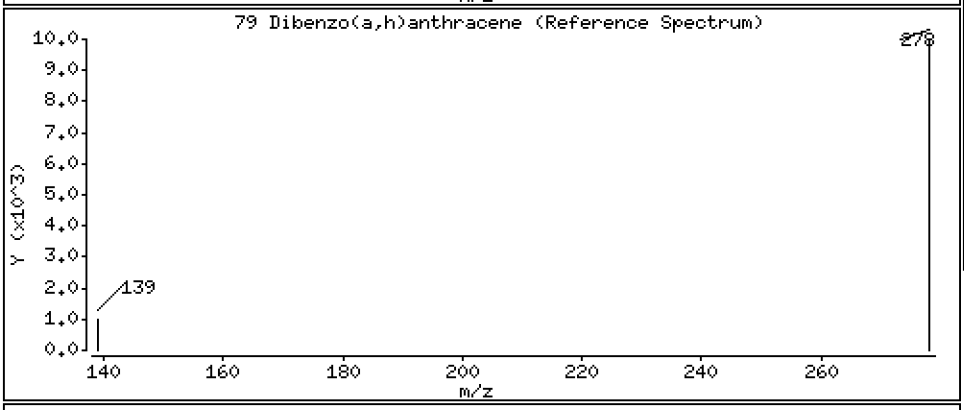
Concentration: 0.1039 ug/L

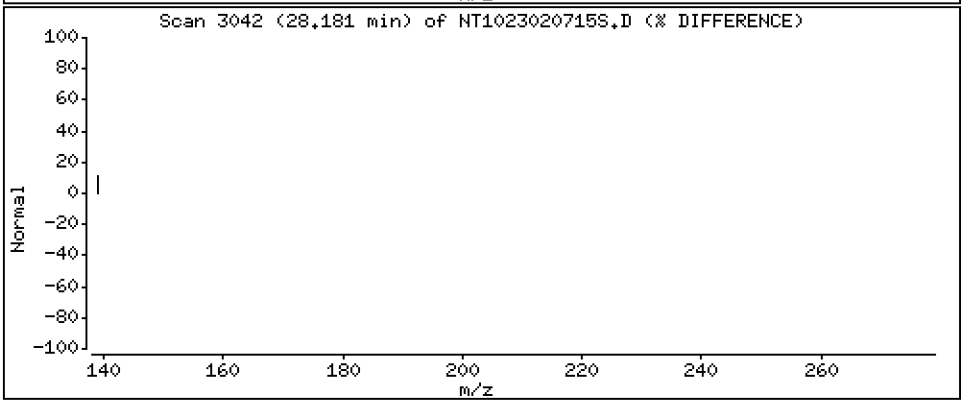












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Date : 07-FEB-2023 20:36

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-LCV1

Volume Injected (uL): 1.0

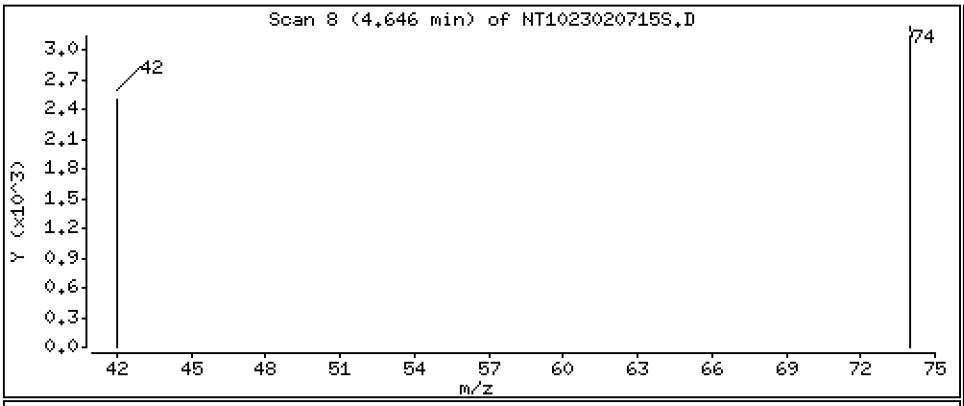
Operator: DSD

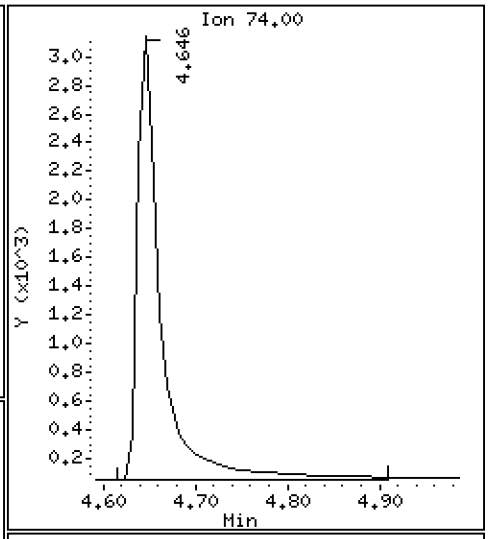
Column phase: ZB-5msi

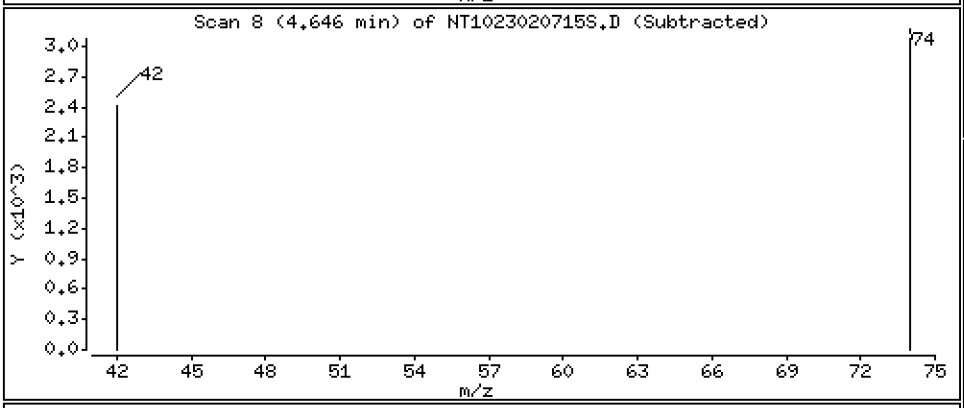
Column diameter: 0.25

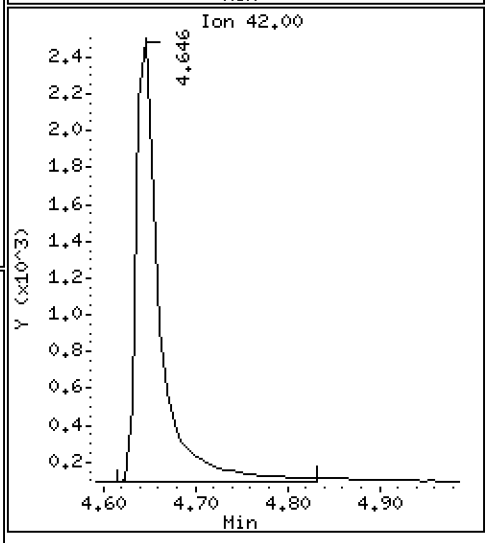
90 N-Nitrosodimethylamine

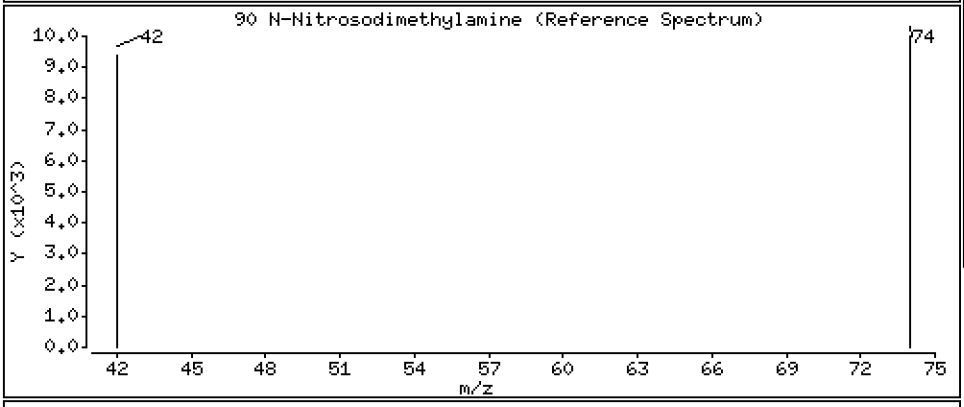
Concentration: 0.2039 ug/L

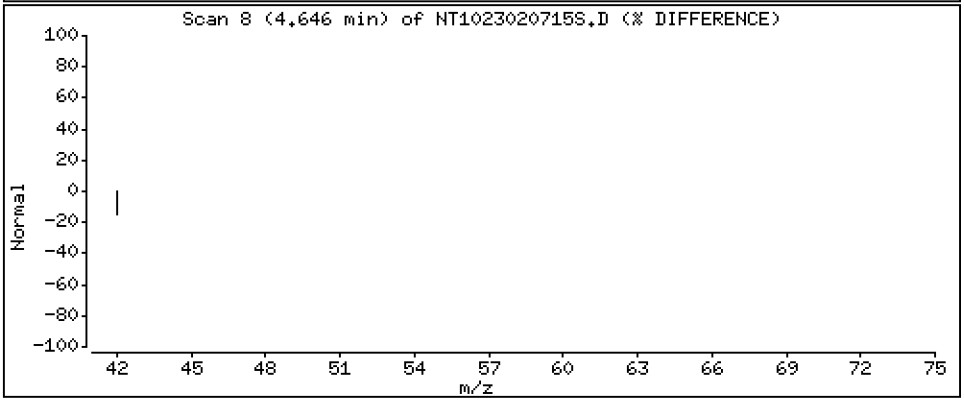












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020715S.D
Lab Smp Id: SLB0106-LCV1
Inj Date : 07-FEB-2023 20:36 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-LCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 13:28 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.777	6.770	(0.756)	6593	0.15819	0.1582(R)
3	Phenol	94	8.361	8.354	(0.933)	6375	0.10144	0.1014
7	1,3-Dichlorobenzene	146	8.902	8.903	(0.993)	6339	0.11201	0.1120
* 8	1,4-Dichlorobenzene-d4	152	8.964	8.965	(1.000)	137052	4.00000	
9	1,4-Dichlorobenzene	146	8.995	8.996	(1.003)	6225	0.11250	0.1125
11	Benzyl alcohol	79	9.252	9.228	(1.032)	2368	0.07724	0.07724(M)
12	1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	6023	0.11153	0.1115
13	2-Methylphenol	108	9.461	9.454	(1.055)	4442	0.10353	0.1035
15	4-Methylphenol	108	9.733	9.725	(1.086)	4306	0.09840	0.09840
16	N-Nitroso-di-n-propylamine	70	9.779	9.780	(1.091)	2945	0.09428	0.09428(M)
22	2,4-Dimethylphenol	107	10.763	10.754	(0.943)	9411	0.21724	0.2172
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	11.334	11.335	(0.993)	4548	0.11200	0.1120
* 27	Naphthalene-d8	136	11.419	11.419	(1.000)	493177	4.00000	
30	Hexachlorobutadiene	225	11.829	11.821	(1.036)	2554	0.11520	0.1152
39	Dimethylphthalate	163	14.514	14.514	(0.968)	6113	0.10766	0.1077
* 42	Acenaphthene-d10	162	15.002	15.002	(1.000)	243620	4.00000	
50	Diethylphthalate	149	15.960	15.960	(1.064)	9298	0.10873	0.1087
54	N-Nitrosodiphenylamine	169	16.338	16.339	(0.907)	7974	0.10806	0.1081
57	Hexachlorobenzene	284	17.396	17.396	(0.966)	3603	0.11473	0.1147

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.783	17.760	(0.987)	228	0.02088	0.02088(M)
*	59 Phenanthrene-d10	188	18.015	18.015	(1.000)	446506	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.918)	9198	0.11199	0.1120(R)
	67 Butylbenzylphthalate	149	22.093	22.093	(0.958)	5269	0.09491	0.09491
*	69 Chrysene-d12	240	23.061	23.069	(1.000)	370022	4.00000	
*	77 Perylene-d12	264	25.616	25.616	(1.000)	388403	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.180	28.173	(1.100)	11305	0.10386	0.1039
	90 N-Nitrosodimethylamine	74	4.646	4.638	(0.518)	5570	0.20394	0.2039

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020715S.D
Lab Smp Id: SLB0106-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 19:58
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	127975	63988	255950	137052	7.09
27 Naphthalene-d8	464967	232484	929934	493177	6.07
42 Acenaphthene-d10	234978	117489	469956	243620	3.68
59 Phenanthrene-d10	431277	215639	862554	446506	3.53
69 Chrysene-d12	358788	179394	717576	370022	3.13
77 Perylene-d12	370755	185378	741510	388403	4.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.97	8.47	9.47	8.96	-0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	-0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.00	-0.00
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	-0.00
69 Chrysene-d12	23.07	22.57	23.57	23.06	-0.03
77 Perylene-d12	25.62	25.12	26.12	25.62	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020715S.D

Lab ID: SLB0106-LCV1
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 20:36

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230207.b/NT1023020714S.D

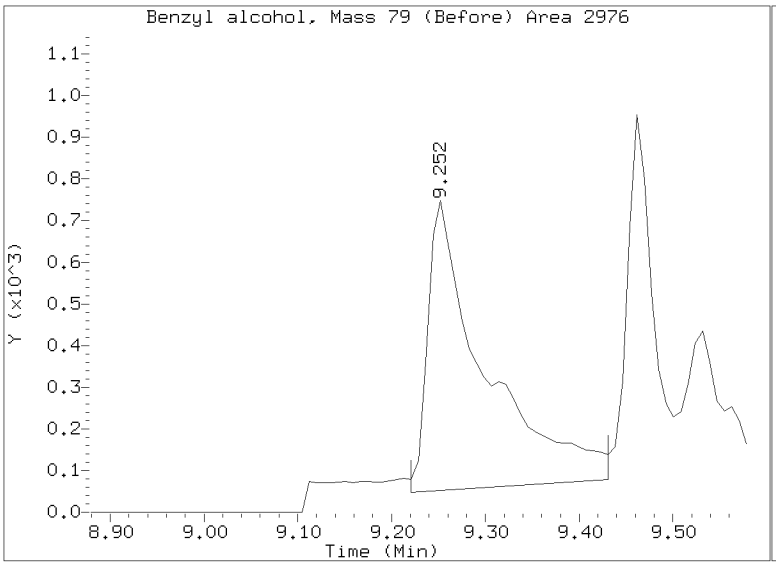
On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

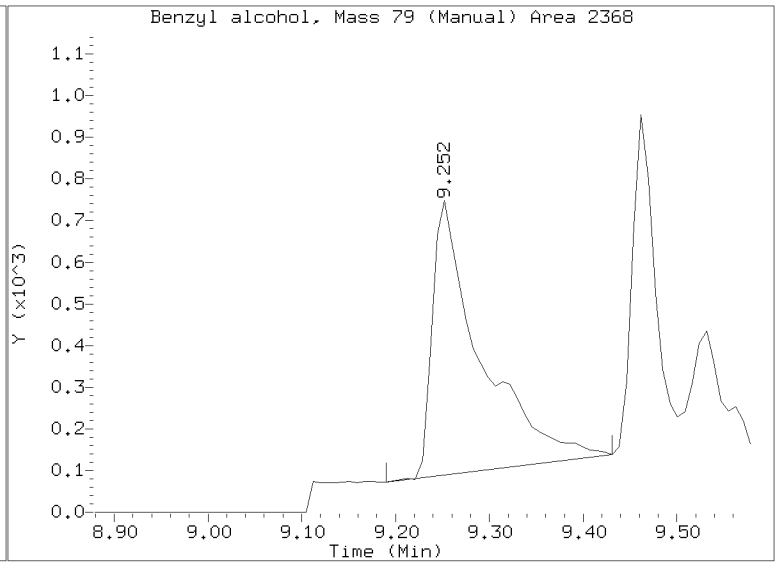
Exception: 1,2,4-Trichlorobenzene 0.0010

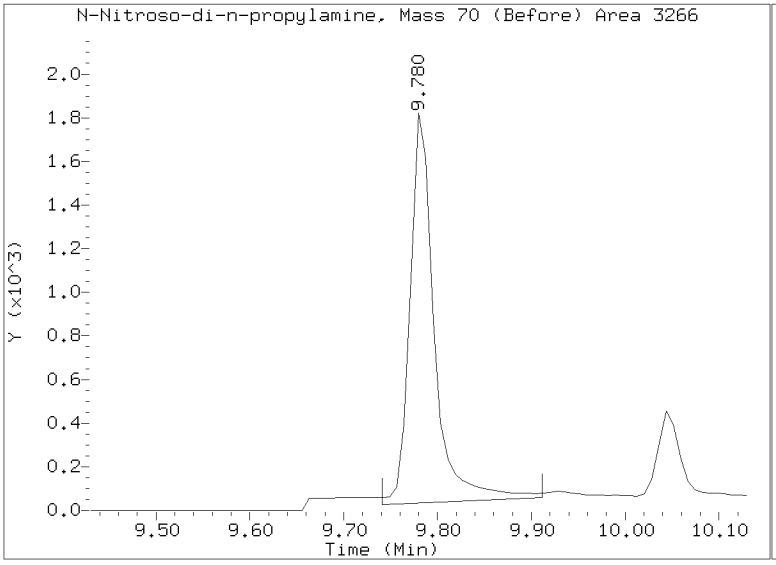
* Only compounds listed in the work order have been verified by the analyst *

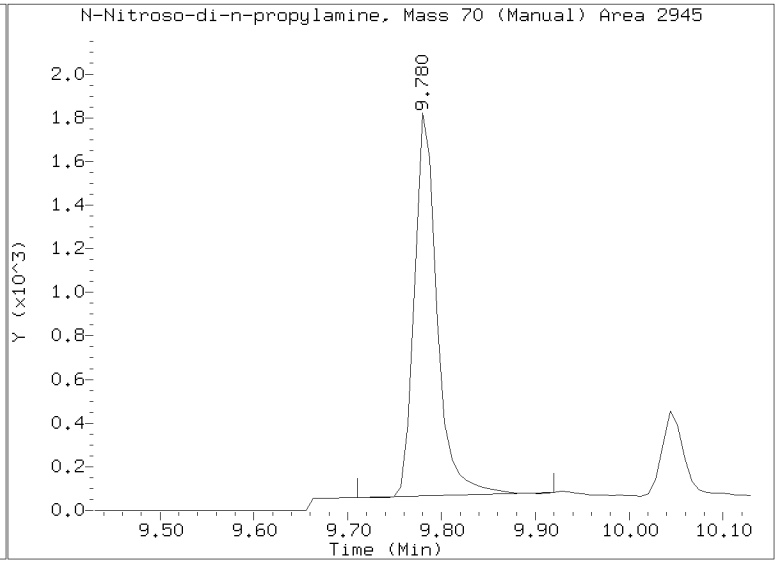
Quant Ion Manual Peak Adjustment Report

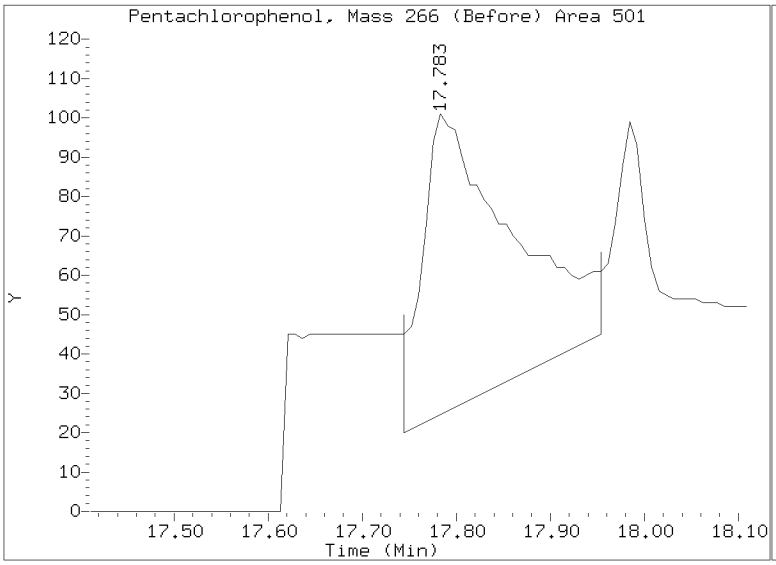
Datafile: //target/share/chem3/nt10.i/20230207.b/20230207.b/NT1023020715S.D
Injection Date: 07-FEB-2023 20:36
Lab ID:SLB0106-LCV1 Client ID:
Report Date: 02/09/2023 13:28

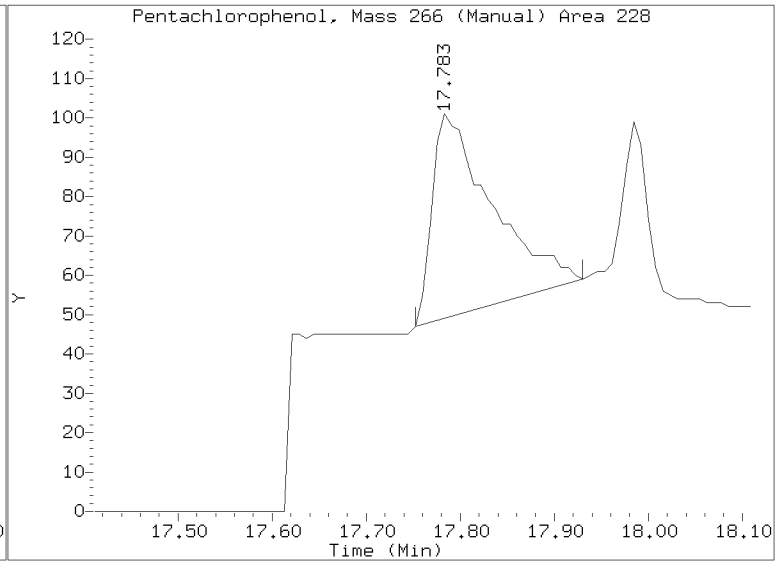












Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GB00019
Lab File ID:	NT1023020711S.D	Calibration Date:	02/07/2023
Sequence:	SLB0106	Injection Date:	02/07/23
Lab Sample ID:	SLB0106-SCV1	Injection Time:	18:04
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
1,4-Dichlorobenzene	A	5.0000	4.2	1.6149400	1.3685620		-15.3	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.2	1.5761980	1.3254350		-15.9	+/-20	
Benzyl Alcohol	A	5.0000	4.9	0.8947729	0.8781483		-1.9	+/-20	
Benzoic acid	A	10.000	5.9	0.1278126	0.0987133		-41.2	+/-20	*
2,4-Dimethylphenol	A	5.0000	3.4	0.3513679	0.2356017		-32.9	+/-20	*
1,2,4-Trichlorobenzene	A	5.0000	3.9	0.3293471	0.2588685		-21.4	+/-20	*
N-Nitrosodiphenylamine	A	5.0000	4.2	0.6610440	0.5558999		-15.9	+/-20	
Pentachlorophenol	A	5.0000	4.0	0.0758741	0.0810025		-20.1	+/-20	*
2-Fluorophenol	A	7.5000	6.97	1.2163900	1.1309700		-7.0		
p-Terphenyl-d14	A	5.0000	4.24	0.8878533	0.7527789		-15.2		

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Page 1

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

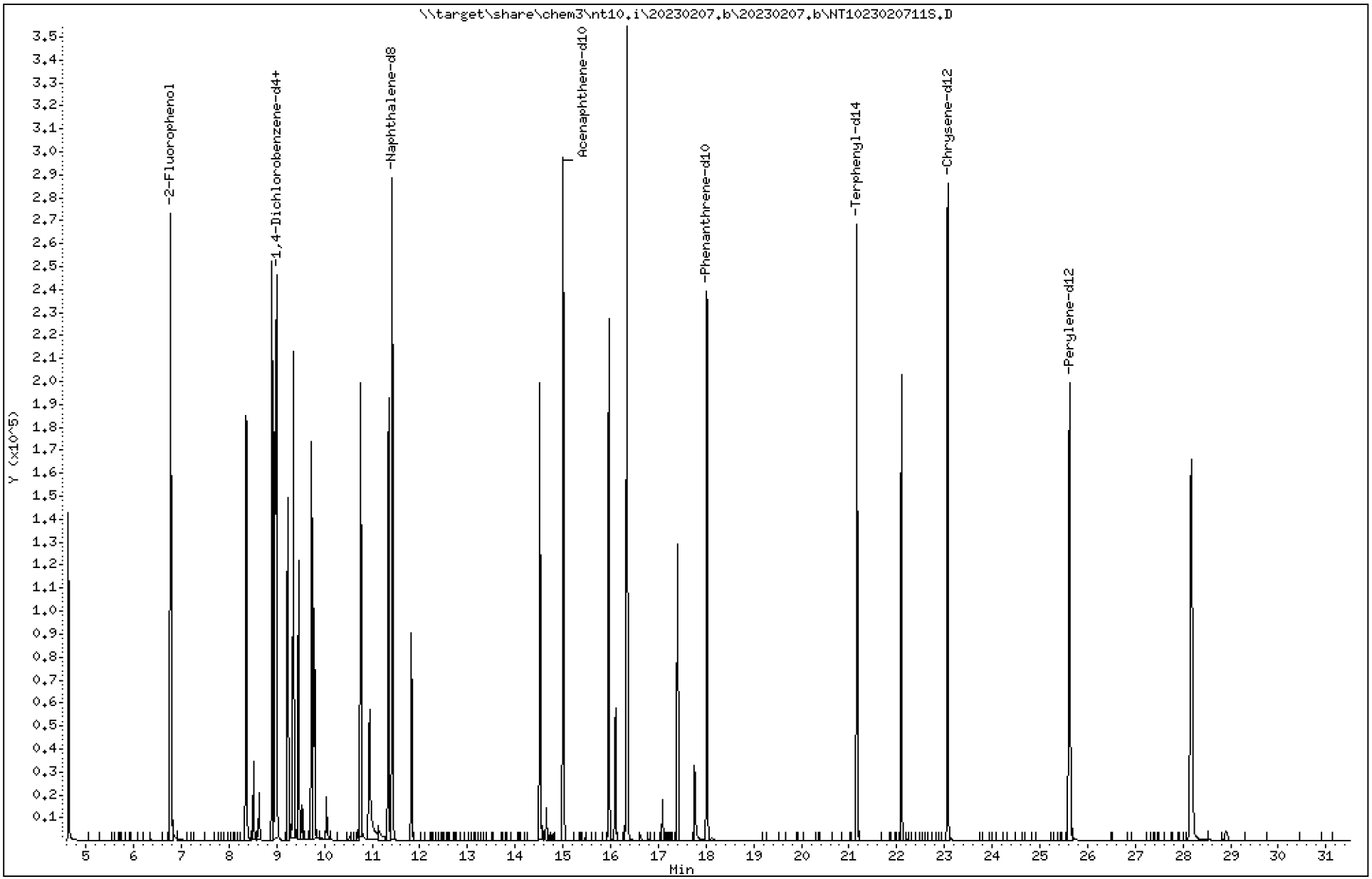
Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

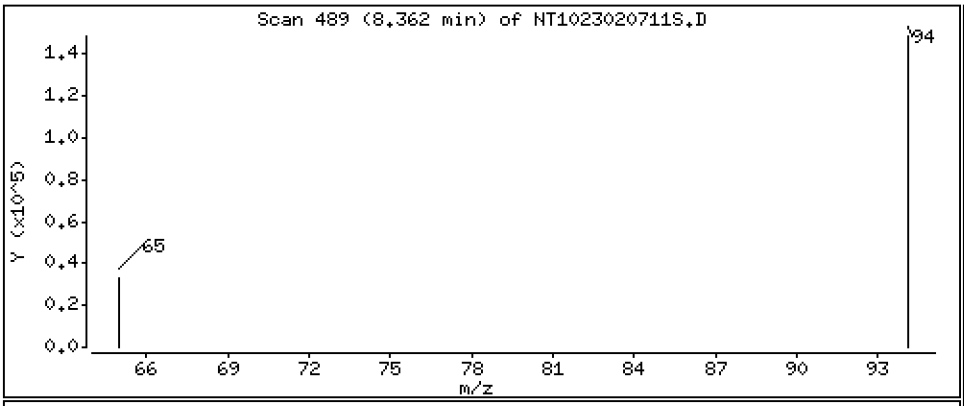
Operator: DSD

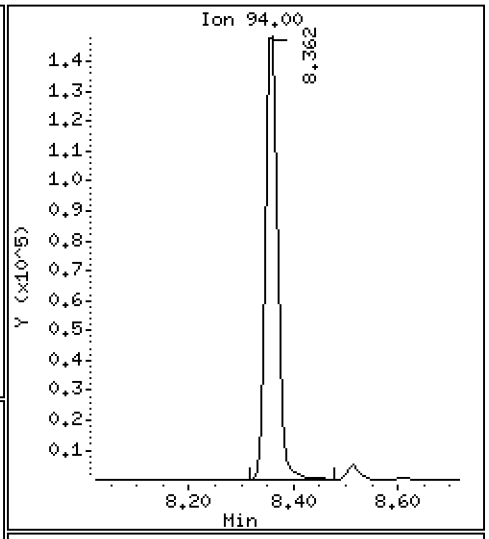
Column phase: ZB-5msi

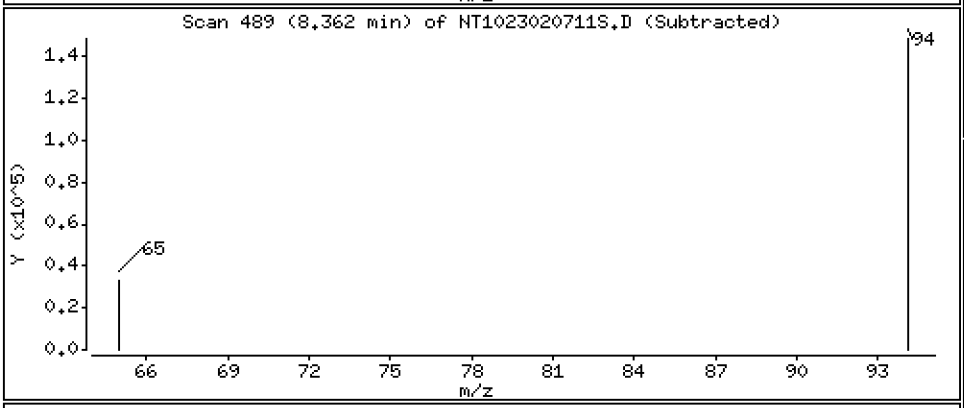
Column diameter: 0.25

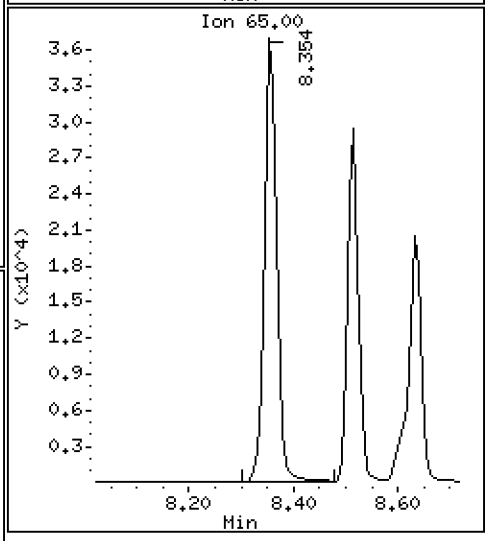
3 Phenol

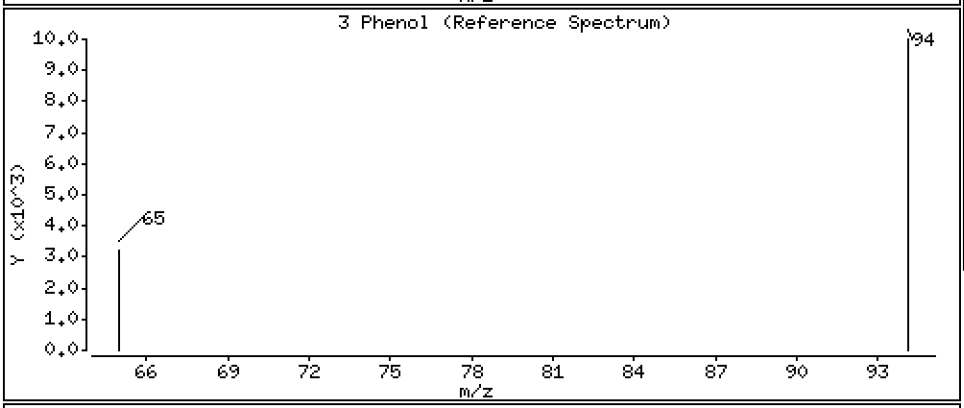
Concentration: 4.170 ug/L

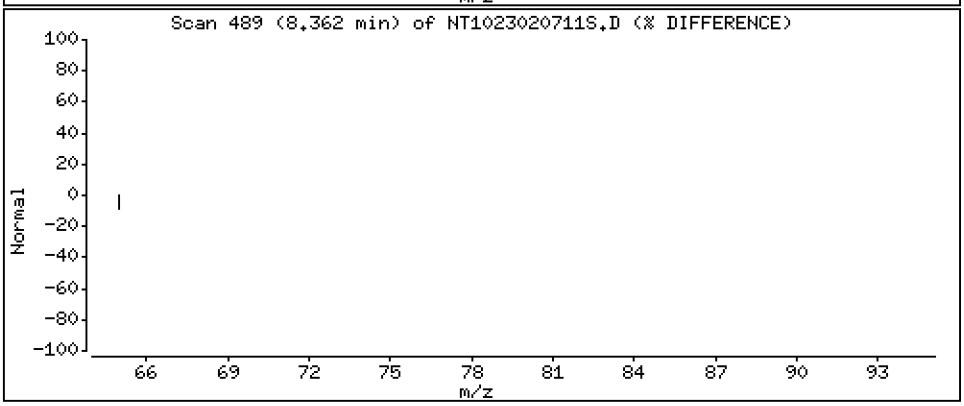












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

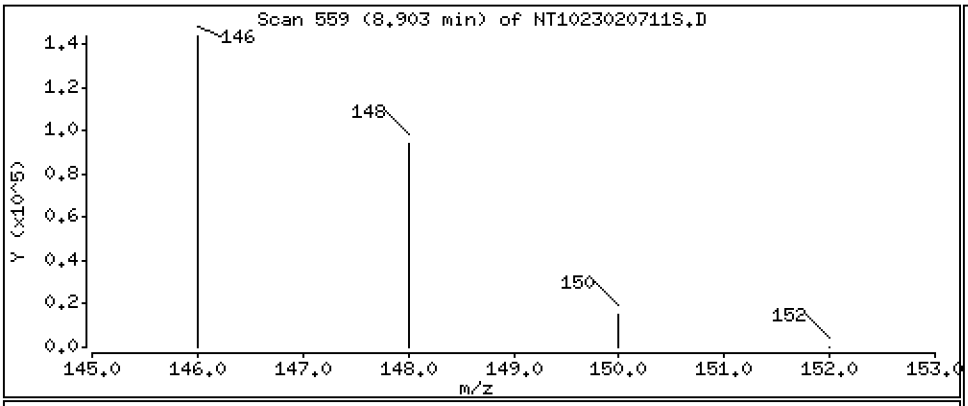
Operator: DSD

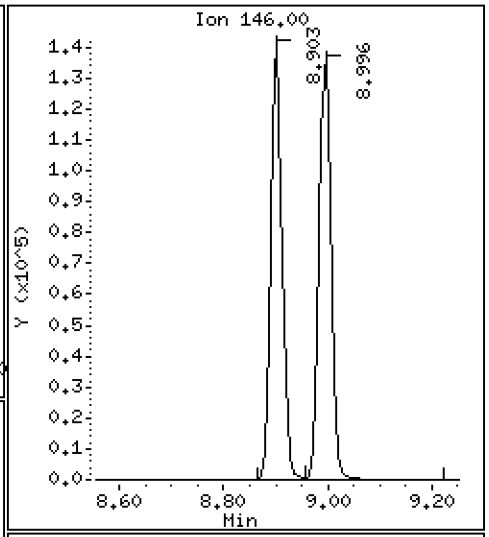
Column phase: ZB-5msi

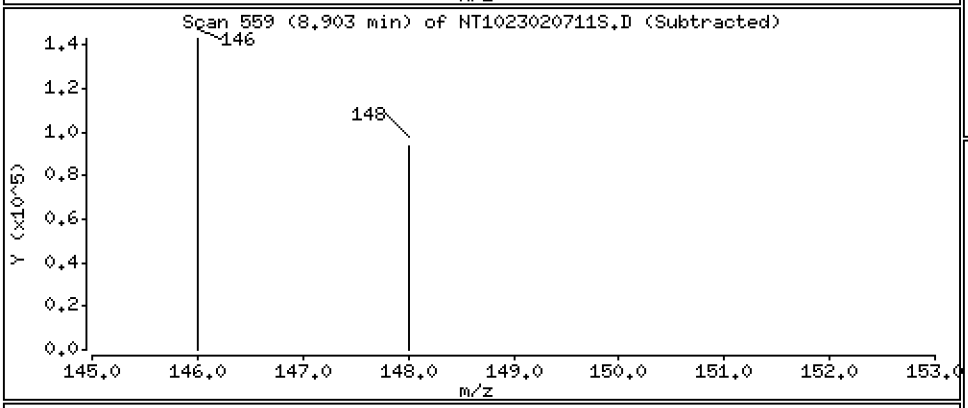
Column diameter: 0.25

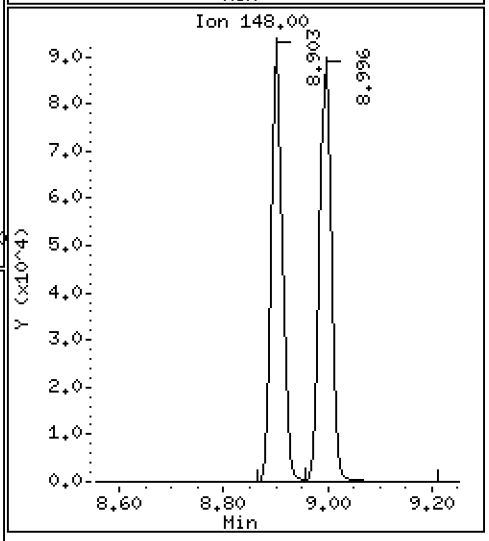
7 1,3-Dichlorobenzene

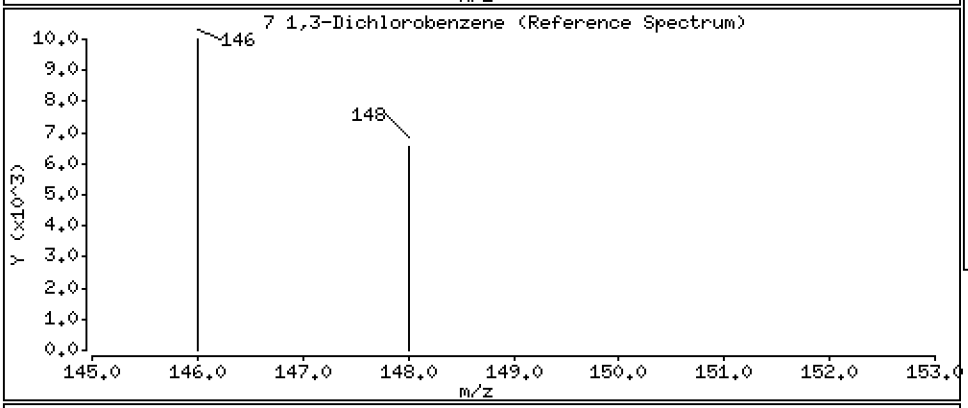
Concentration: 4.159 ug/L

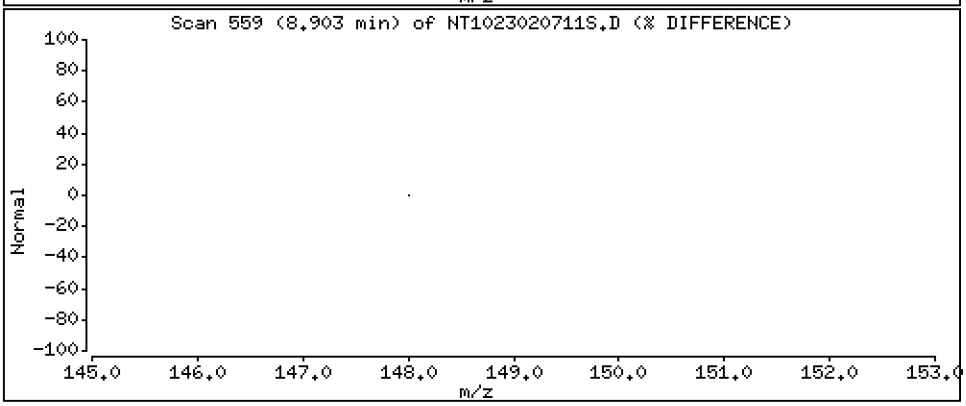












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

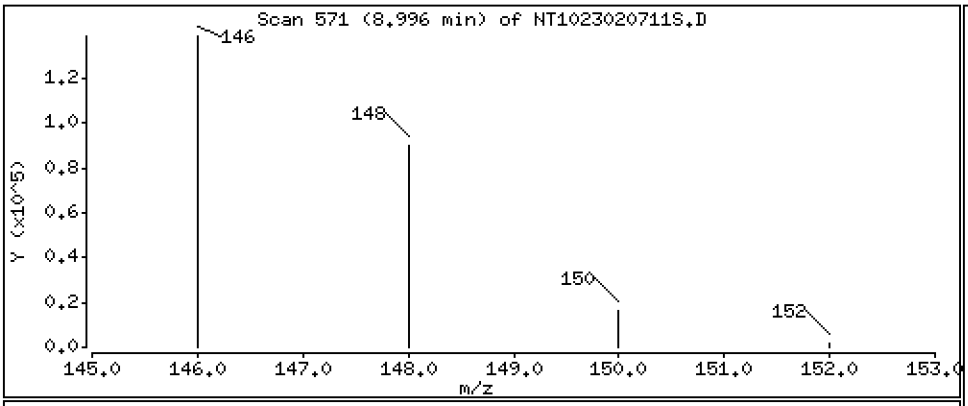
Operator: DSD

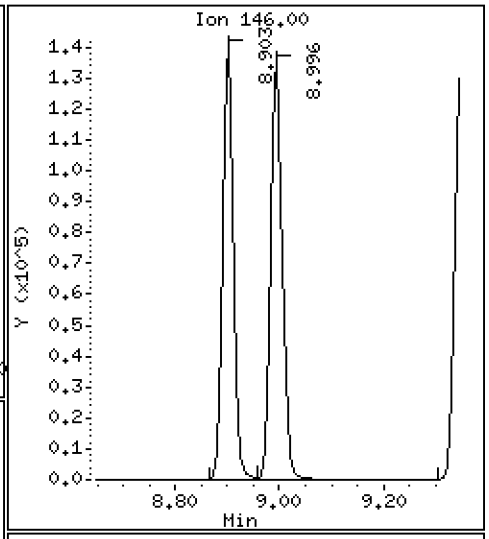
Column phase: ZB-5msi

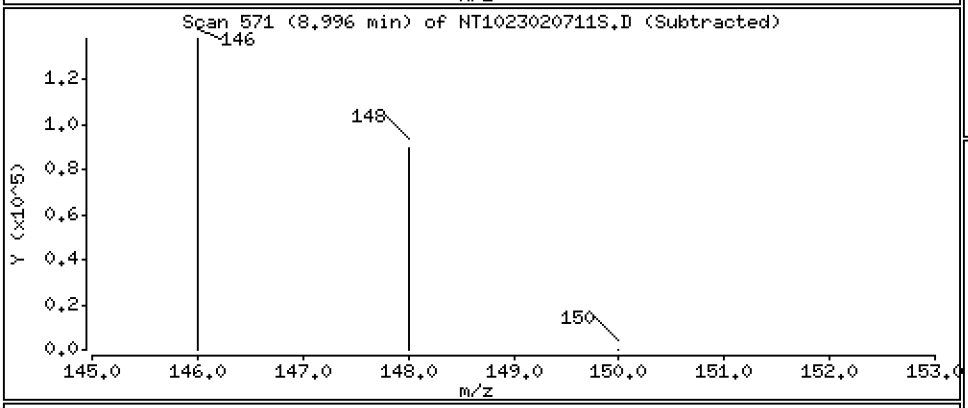
Column diameter: 0.25

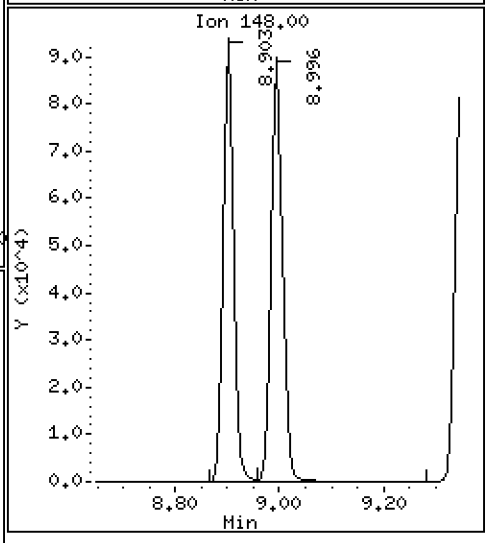
9 1,4-Dichlorobenzene

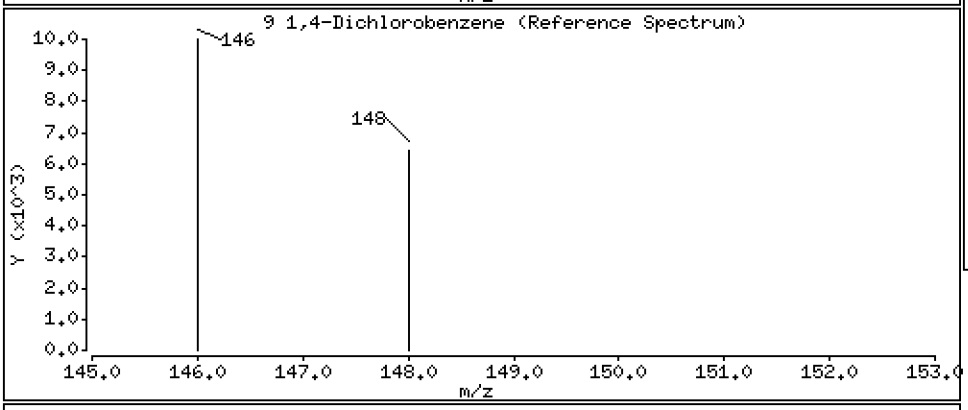
Concentration: 4.237 ug/L

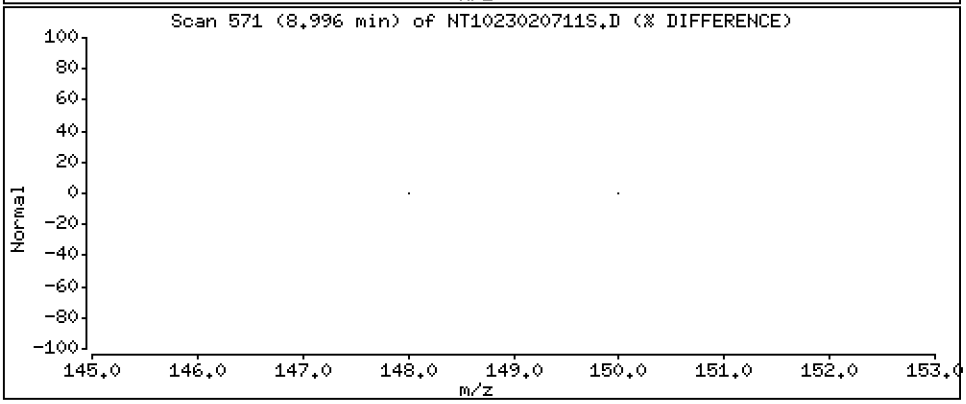












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

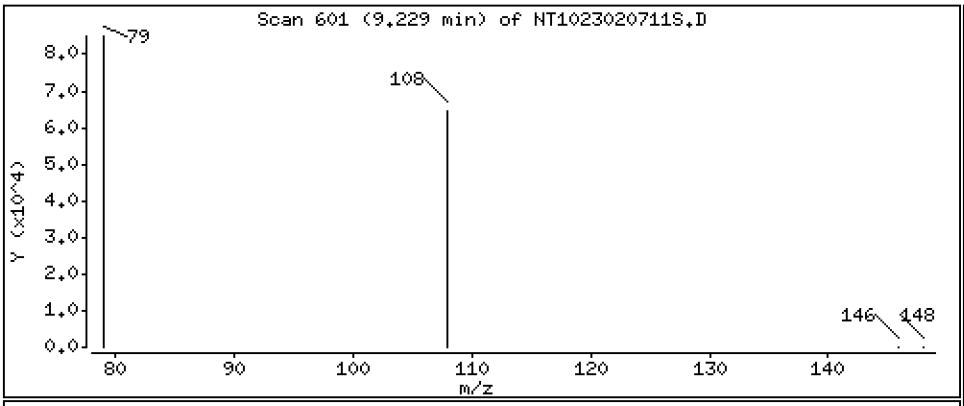
Operator: DSD

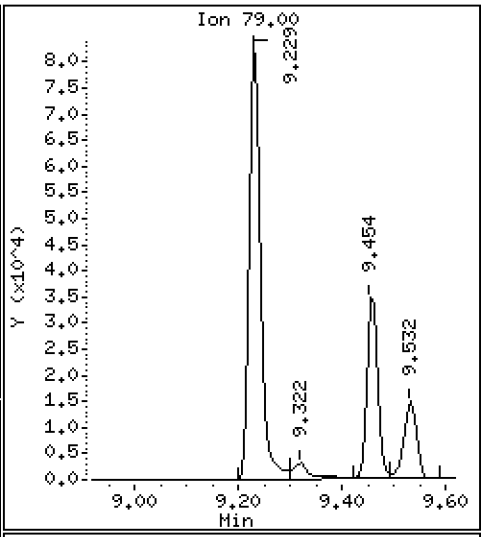
Column phase: ZB-5msi

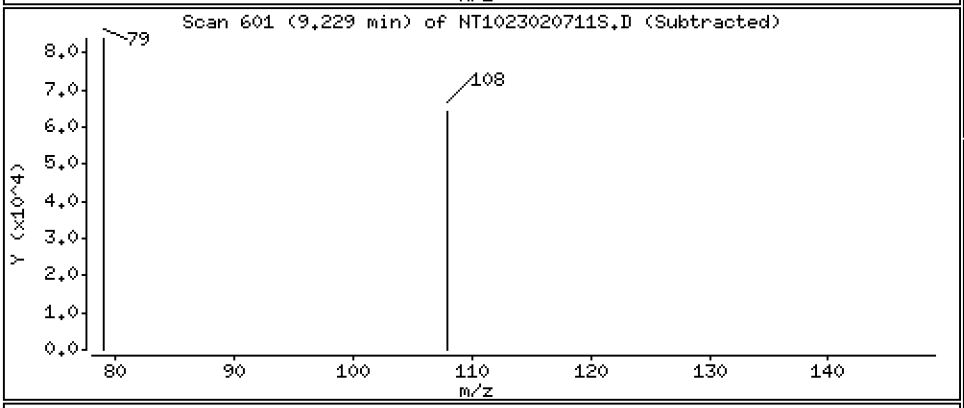
Column diameter: 0.25

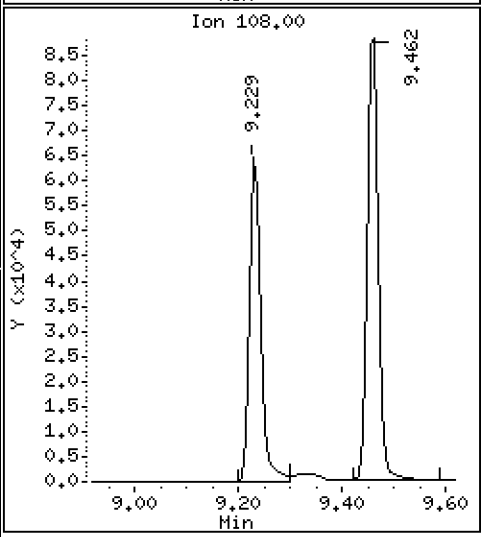
11 Benzyl alcohol

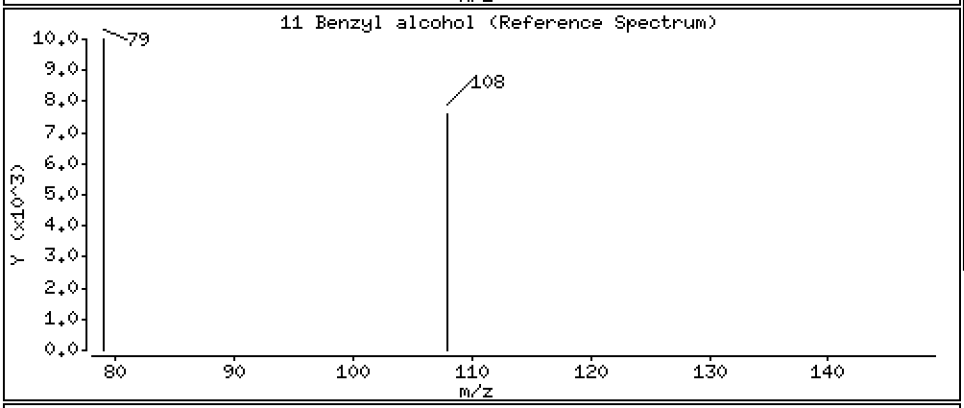
Concentration: 4.907 ug/L

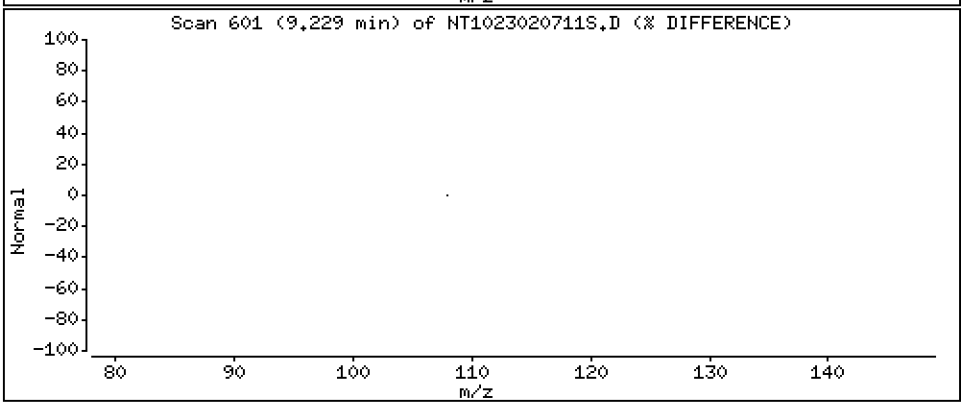












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

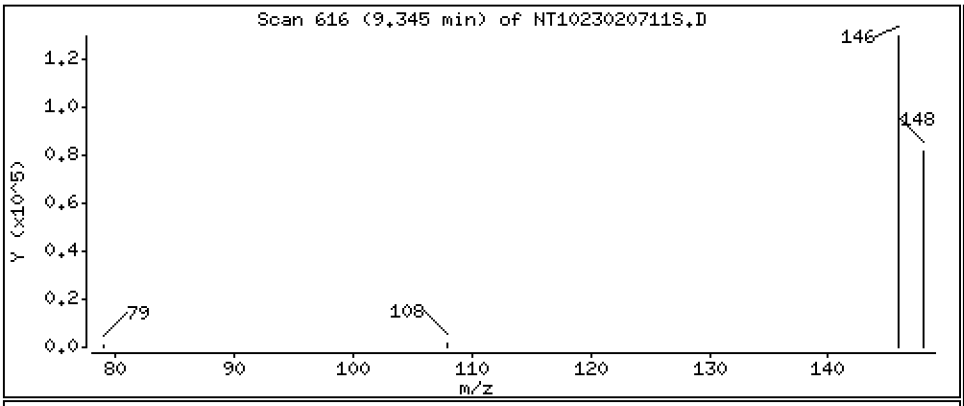
Operator: DSD

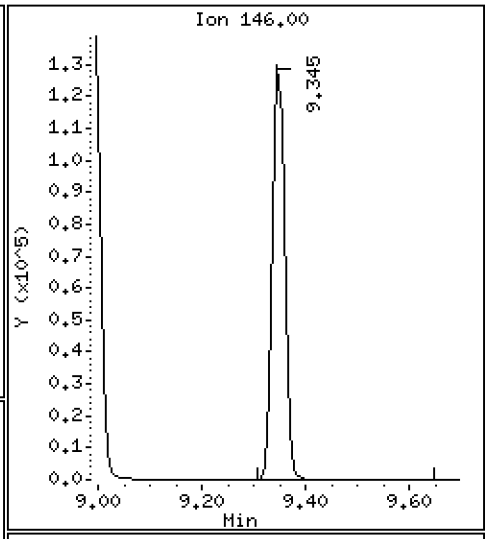
Column phase: ZB-5msi

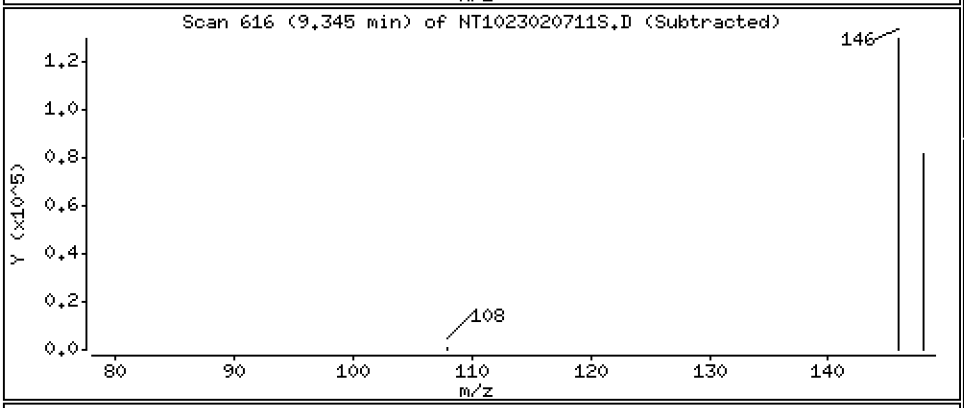
Column diameter: 0.25

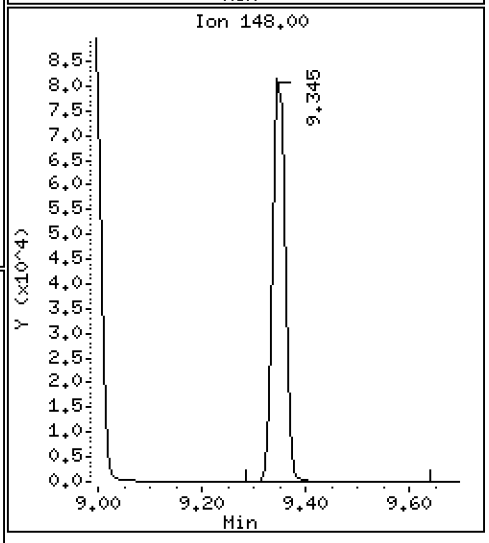
12 1,2-Dichlorobenzene

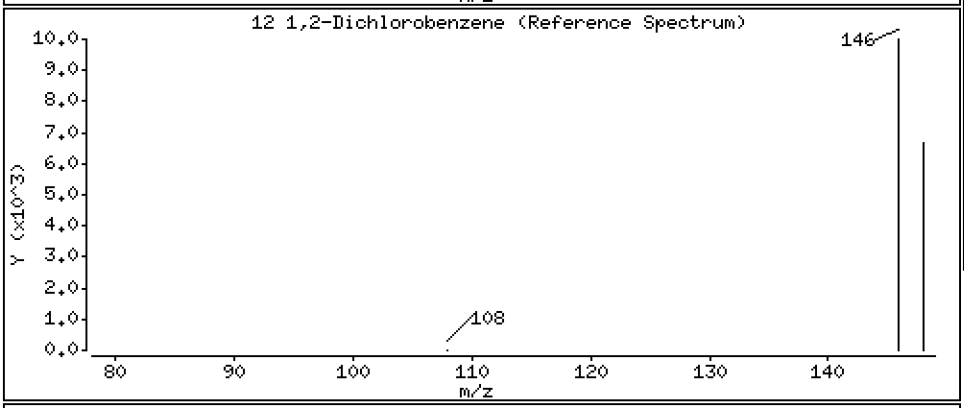
Concentration: 4.205 ug/L

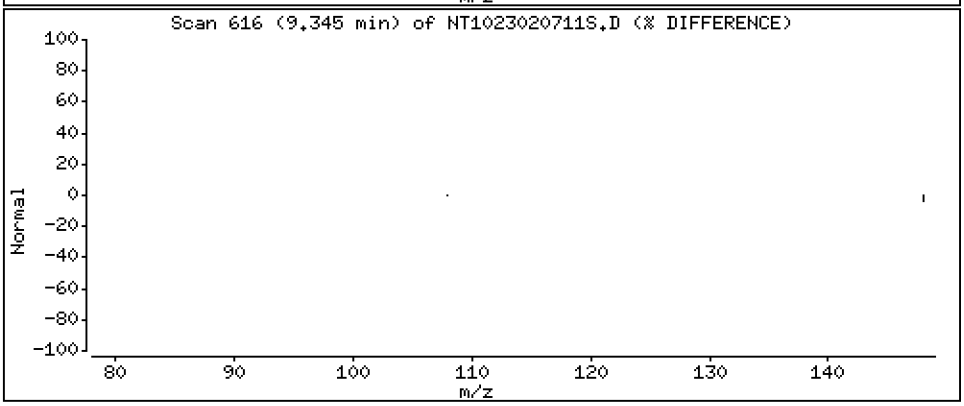












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

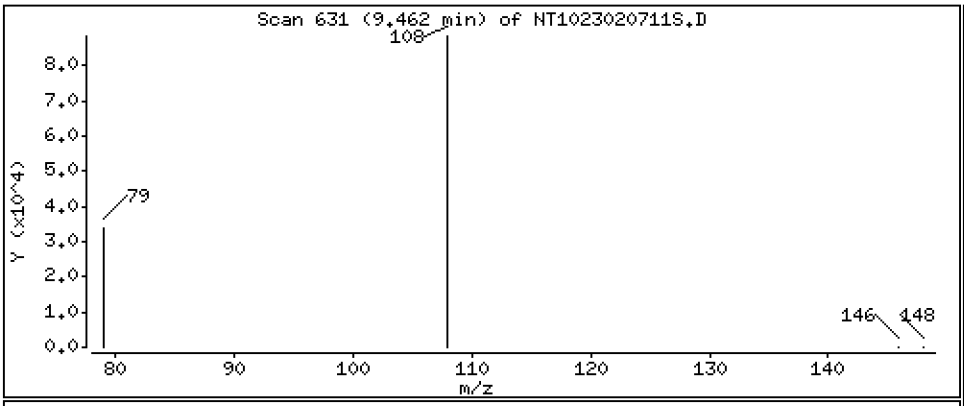
Operator: DSD

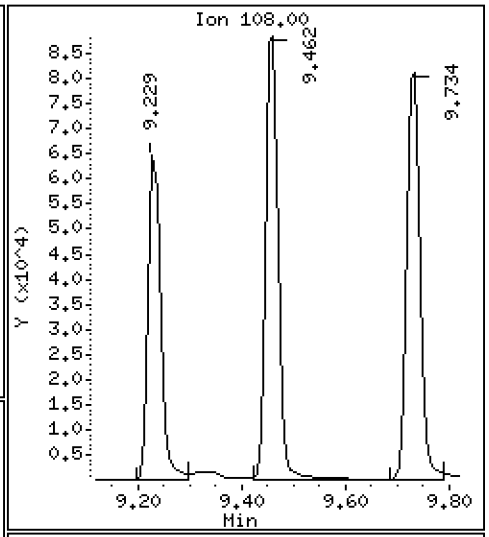
Column phase: ZB-5msi

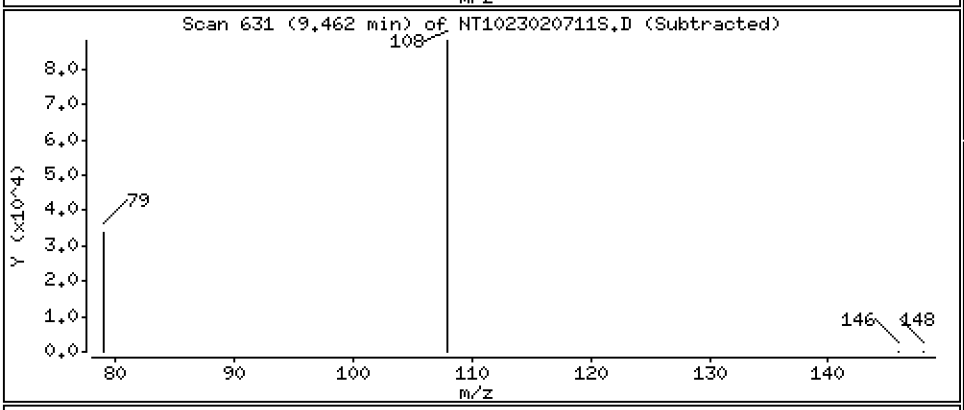
Column diameter: 0.25

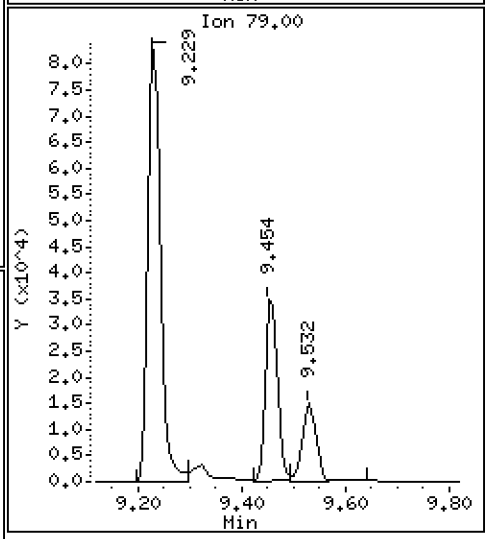
13 2-Methylphenol

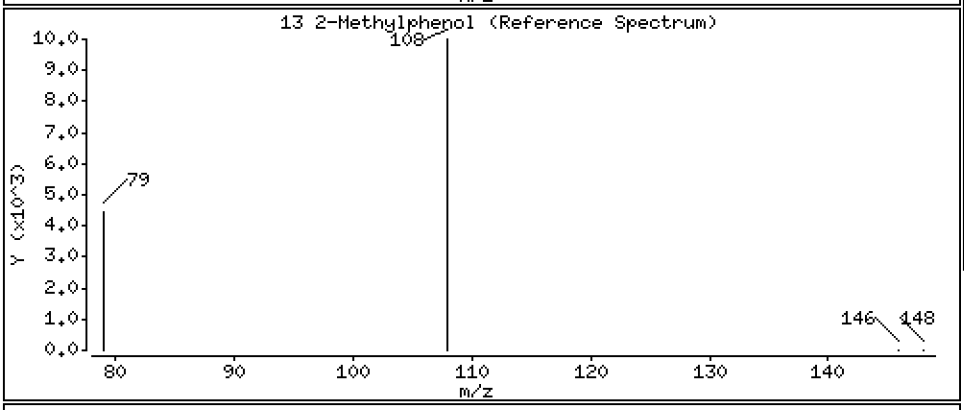
Concentration: 3.649 ug/L

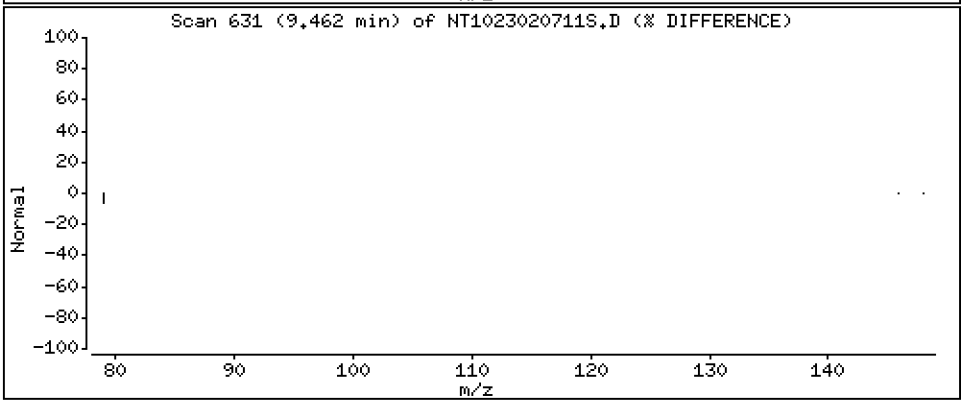












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020711S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

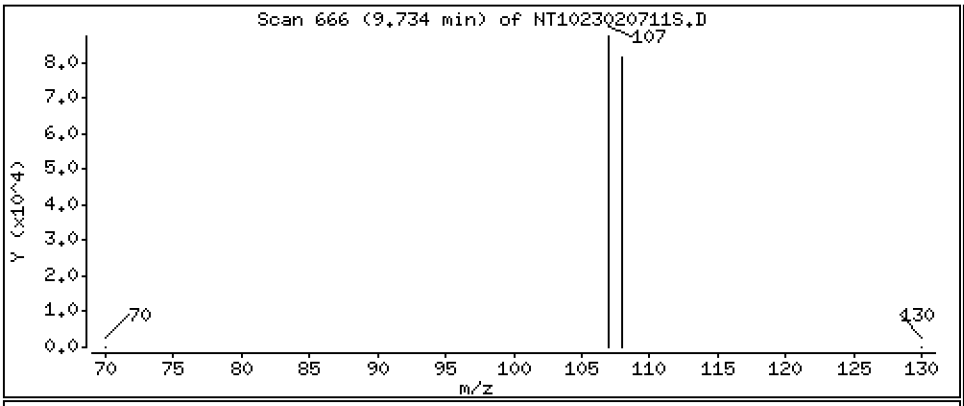
Operator: DSD

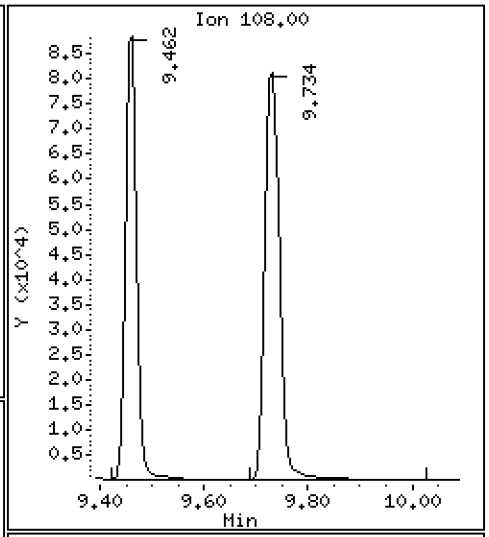
Column phase: ZB-5msi

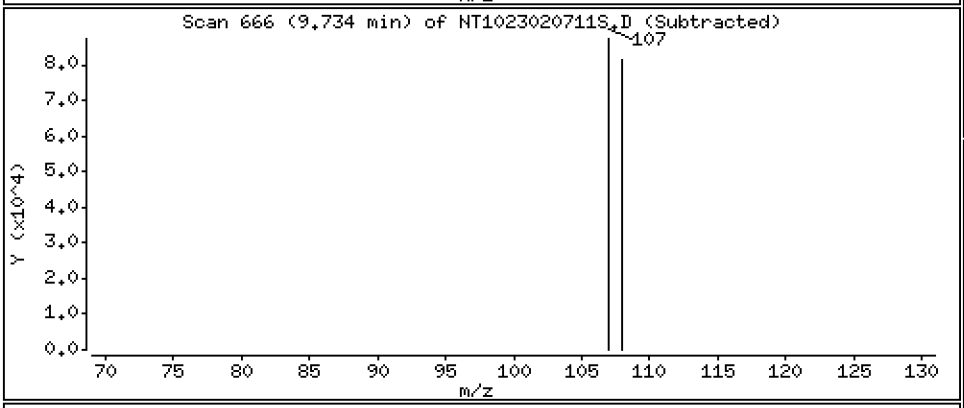
Column diameter: 0.25

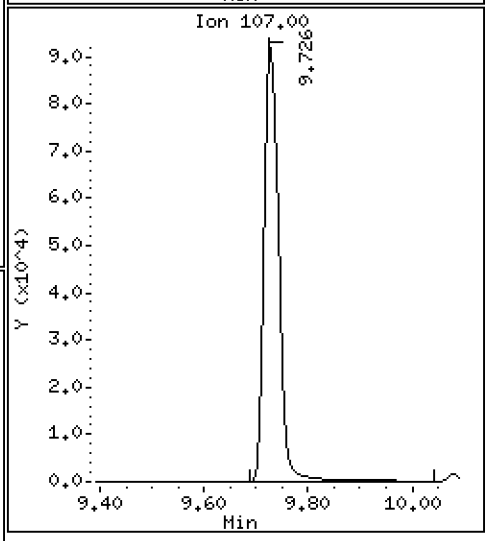
15 4-Methylphenol

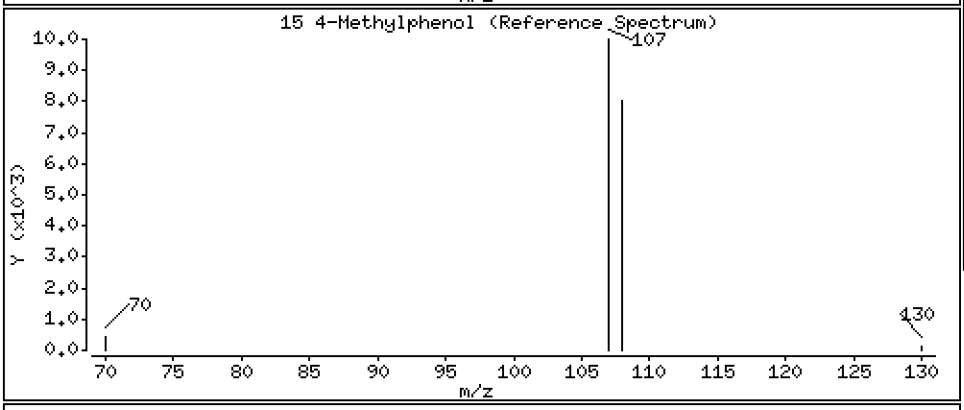
Concentration: 3.980 ug/L

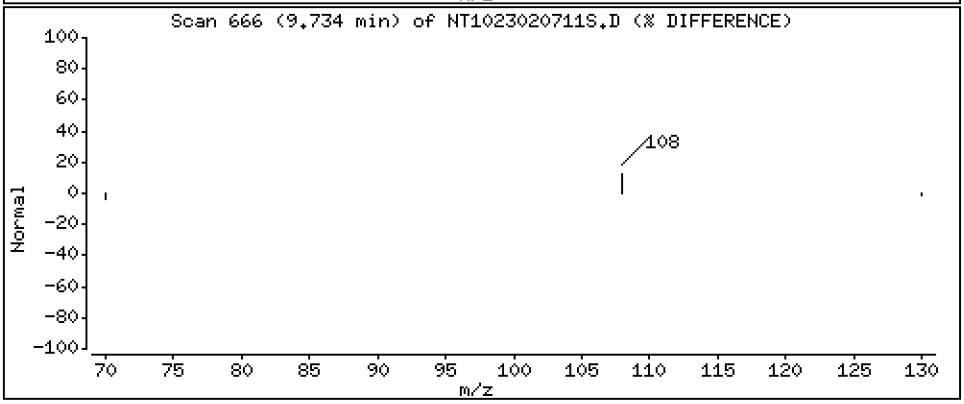












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

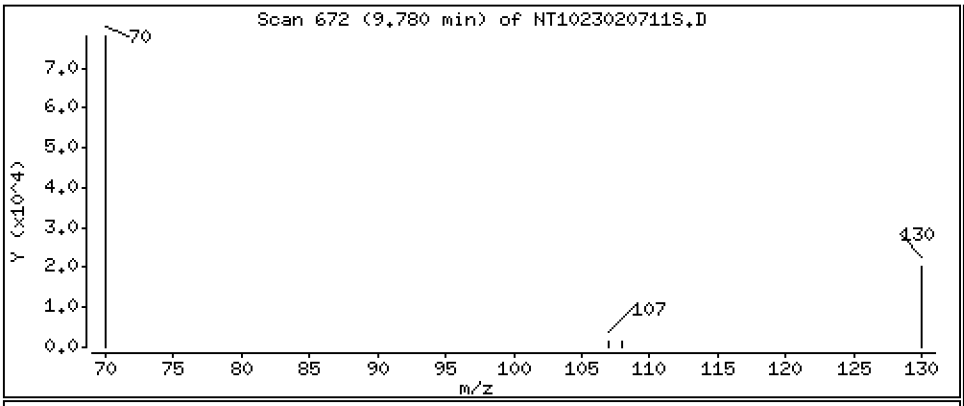
Operator: DSD

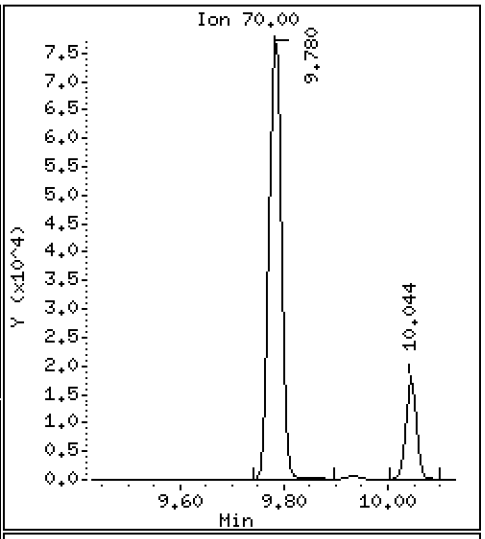
Column phase: ZB-5msi

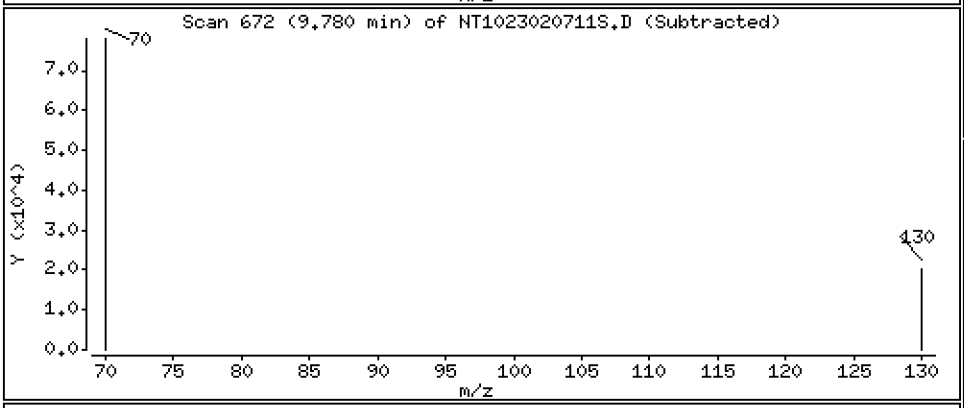
Column diameter: 0.25

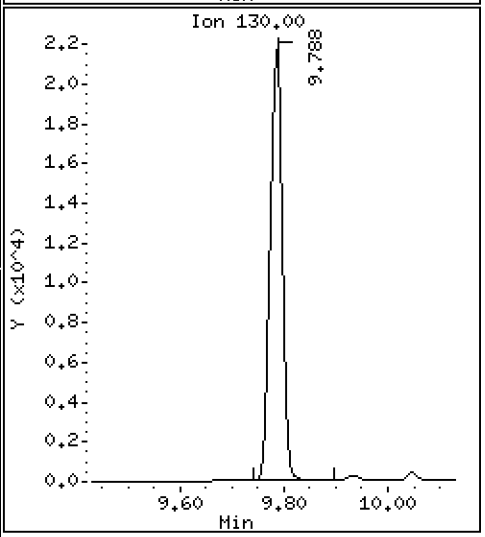
16 N-Nitroso-di-n-propylamine

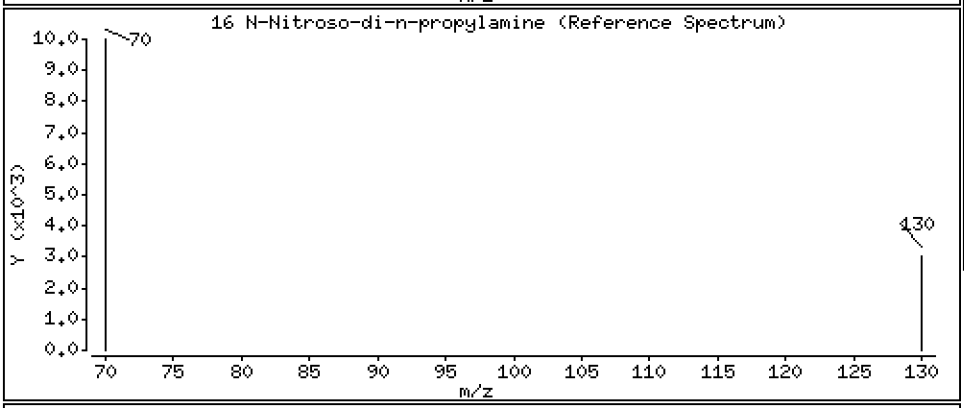
Concentration: 4.396 ug/L

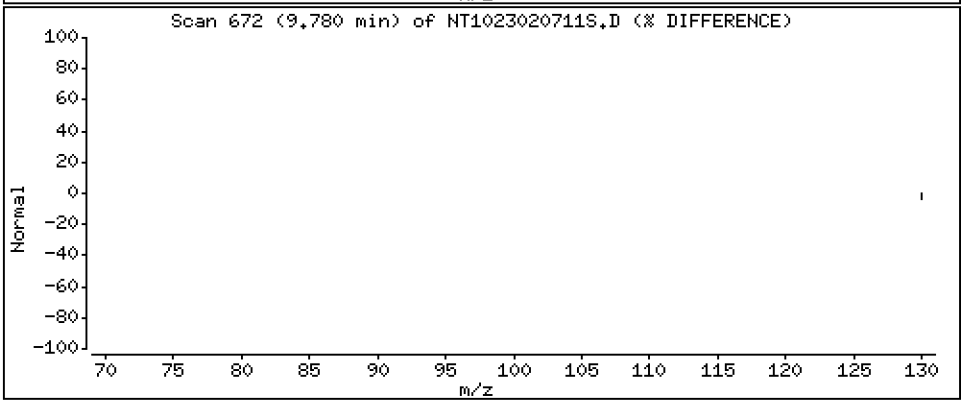












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

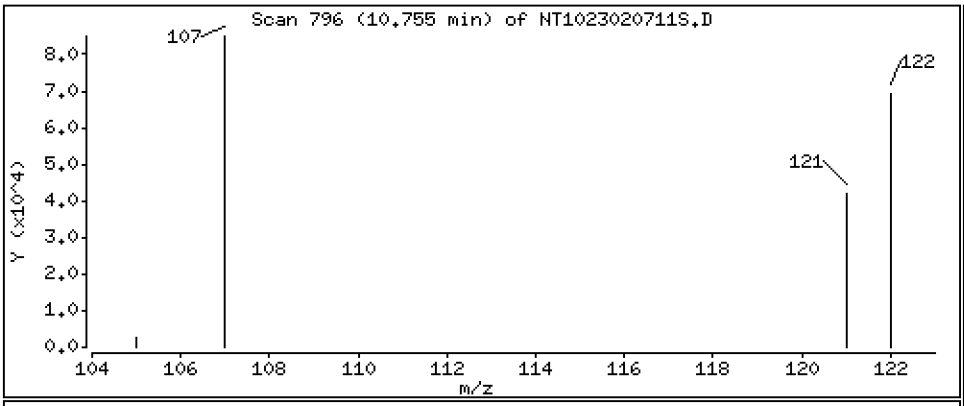
Operator: DSD

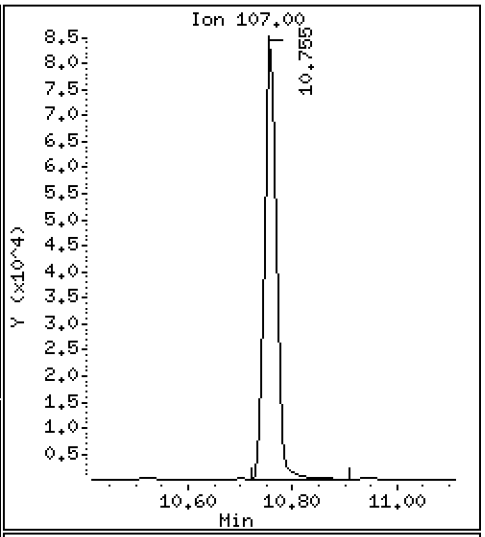
Column phase: ZB-5msi

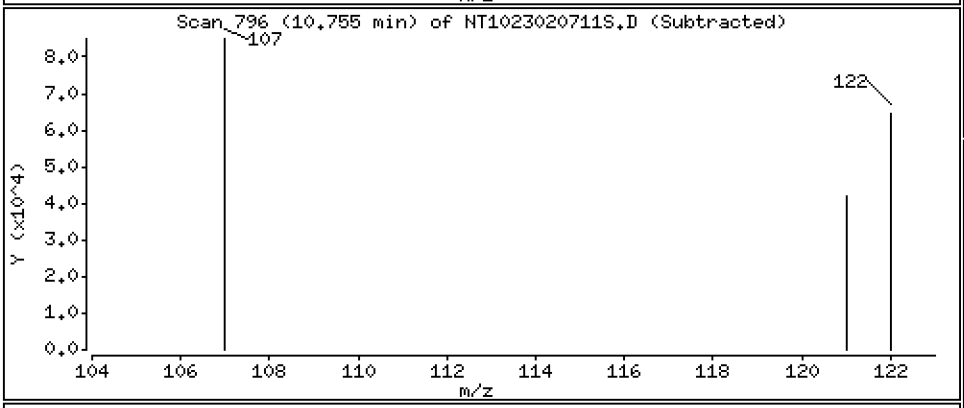
Column diameter: 0.25

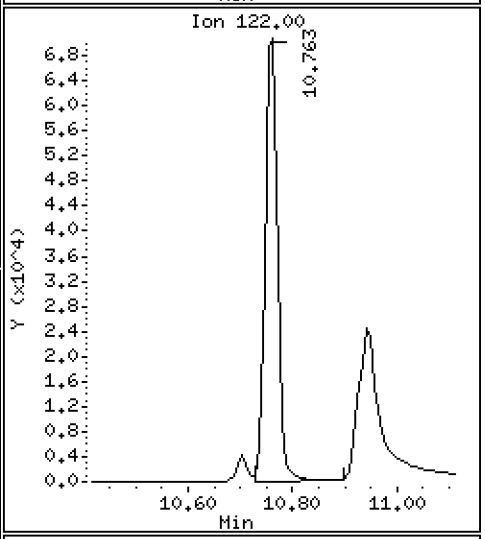
22 2,4-Dimethylphenol

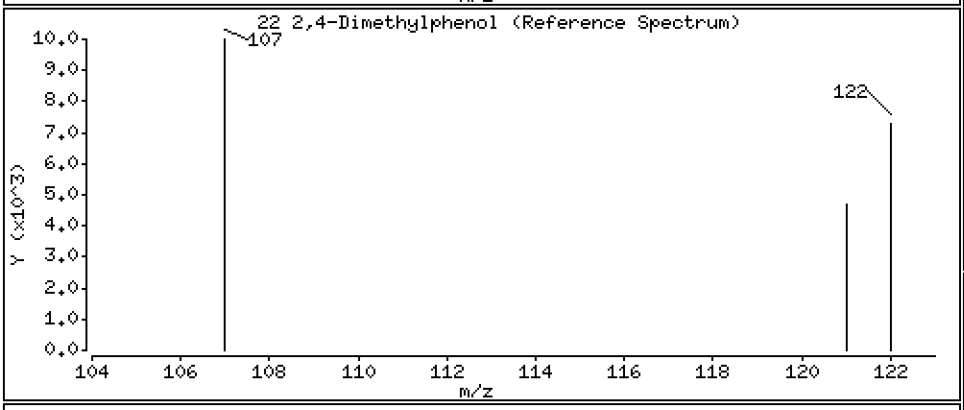
Concentration: 3.353 ug/L

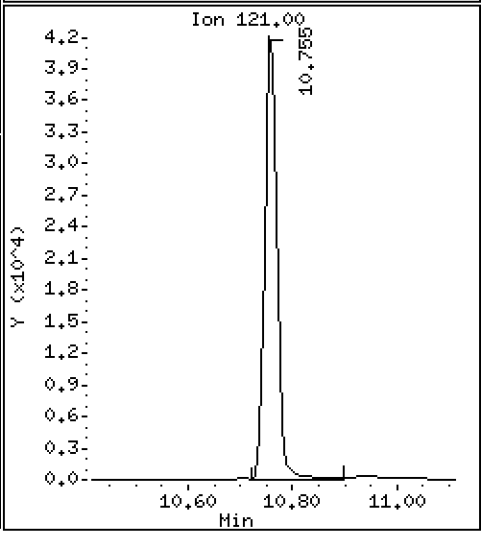


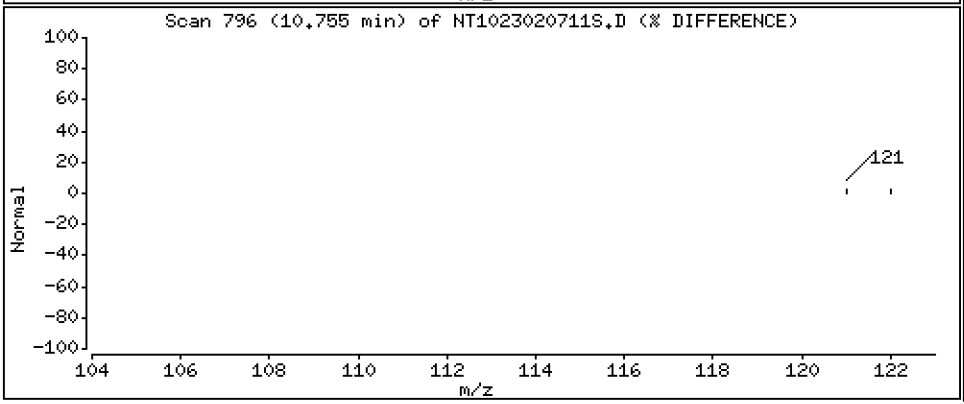












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

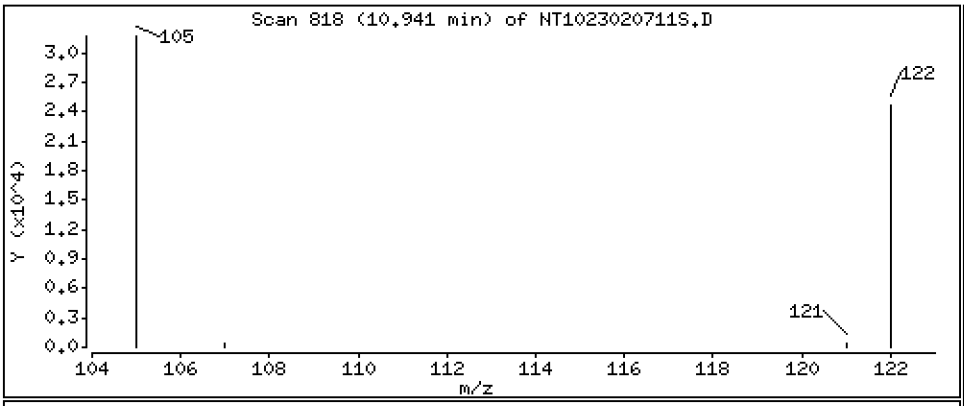
Operator: DSD

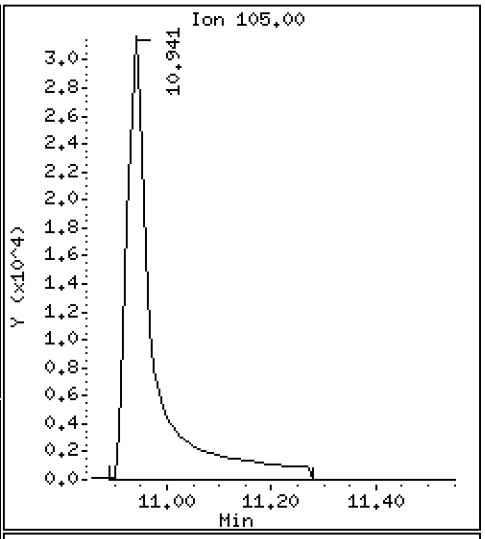
Column phase: ZB-5msi

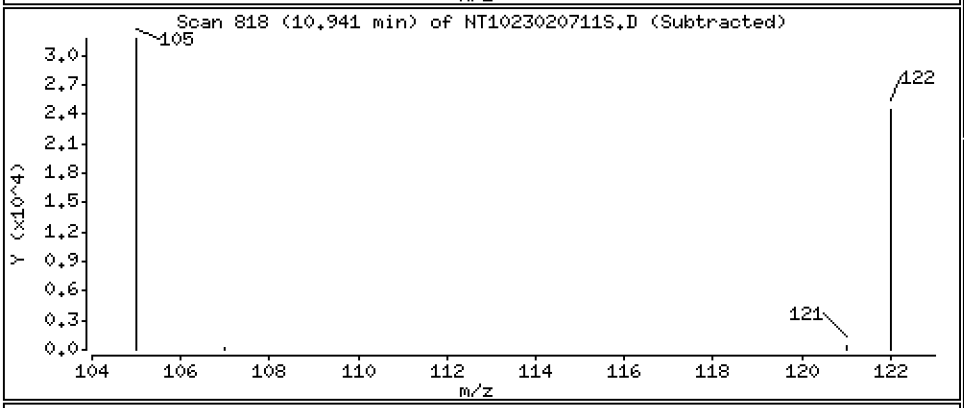
Column diameter: 0.25

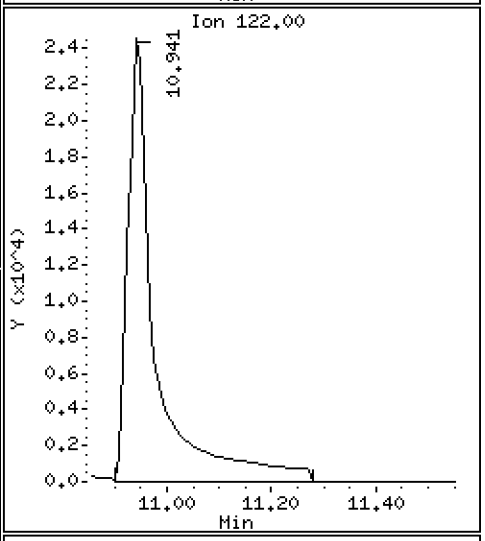
24 Benzoic acid

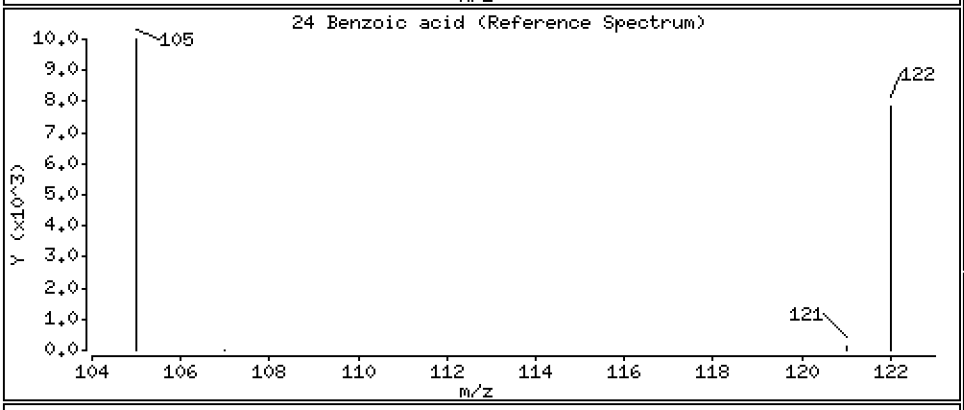
Concentration: 5.884 ug/L

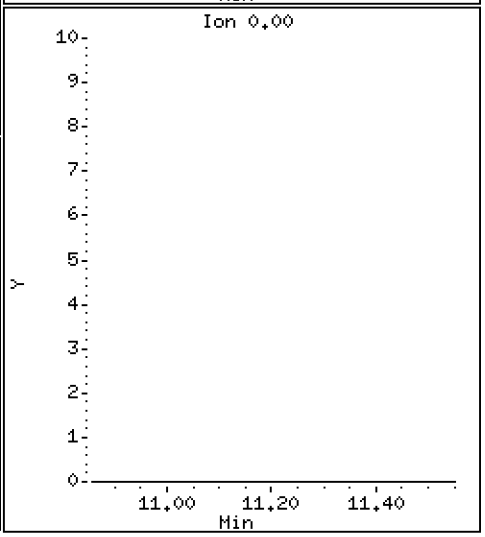


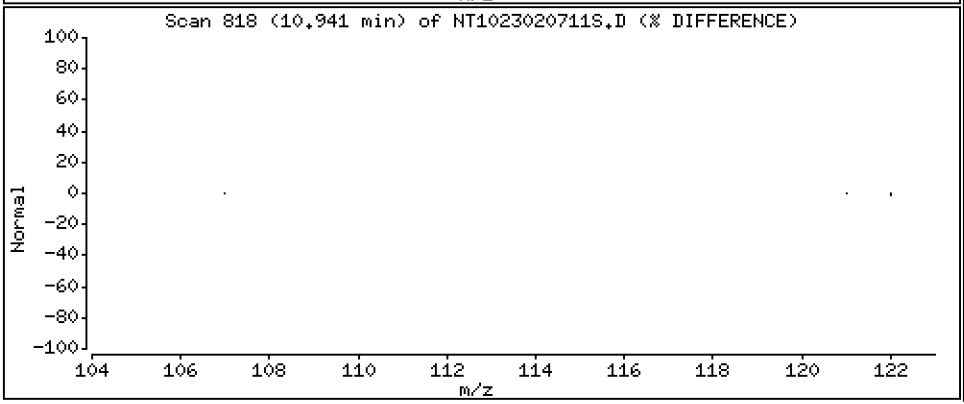












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

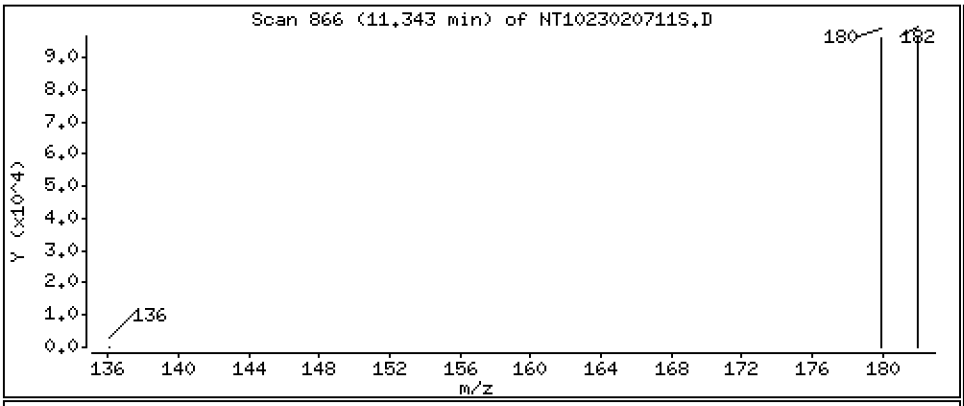
Operator: DSD

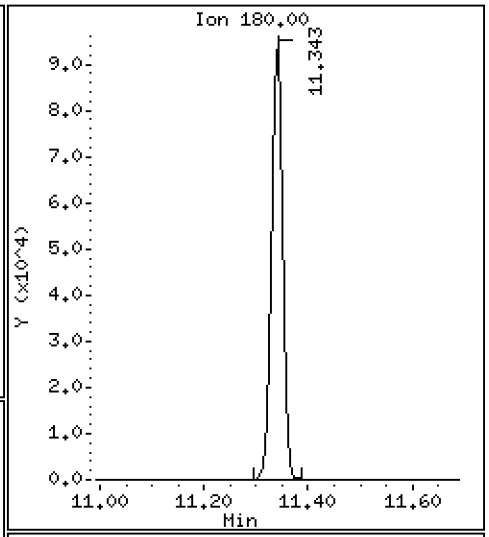
Column phase: ZB-5msi

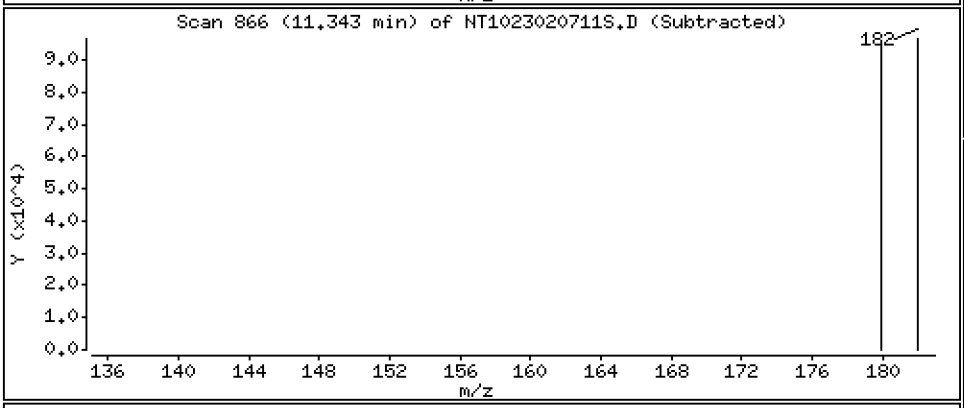
Column diameter: 0.25

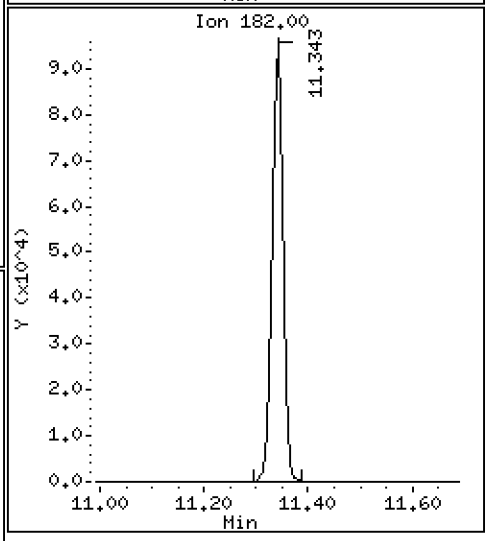
26 1,2,4-Trichlorobenzene

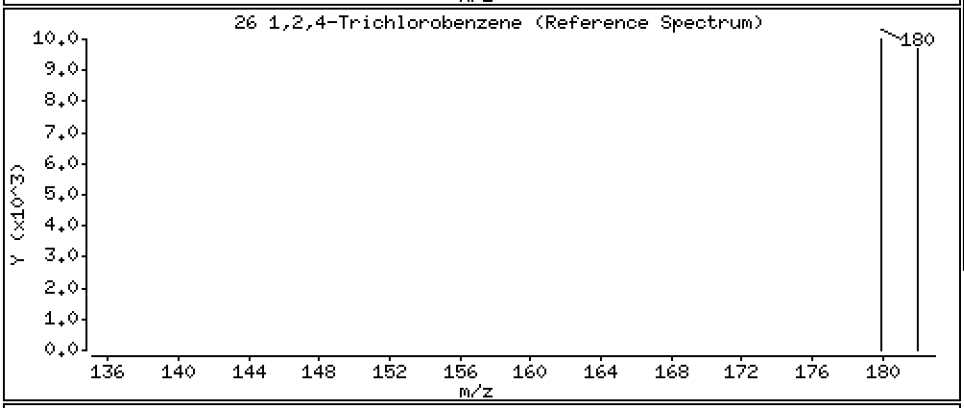
Concentration: 3.930 ug/L

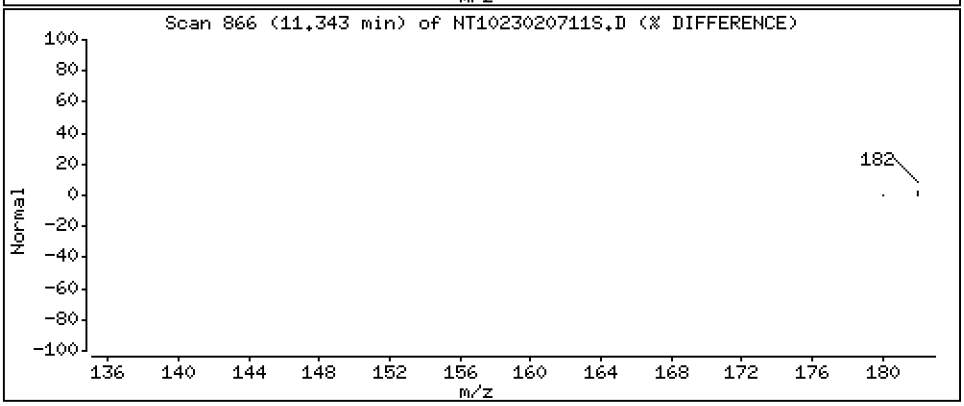












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

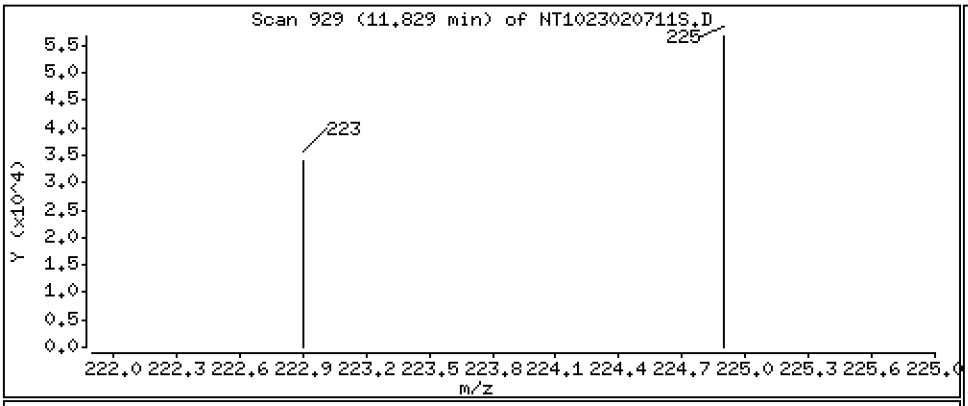
Operator: DSD

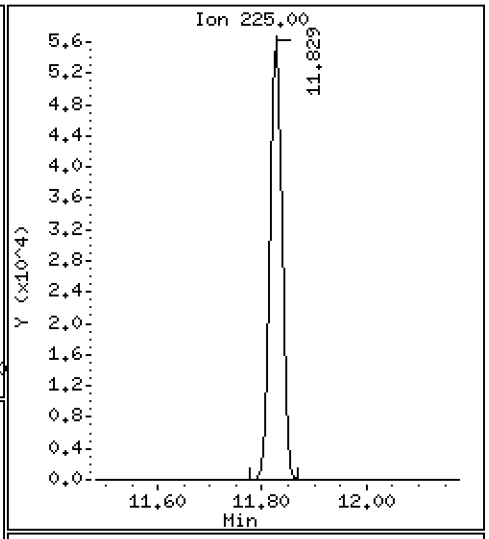
Column phase: ZB-5msi

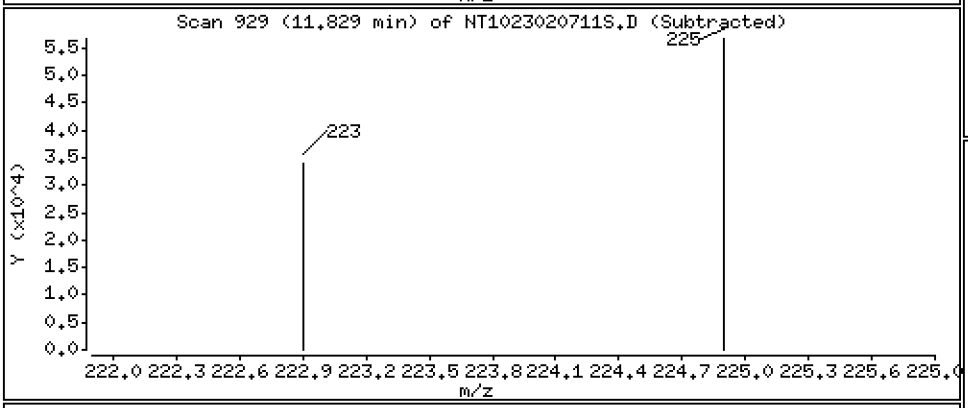
Column diameter: 0.25

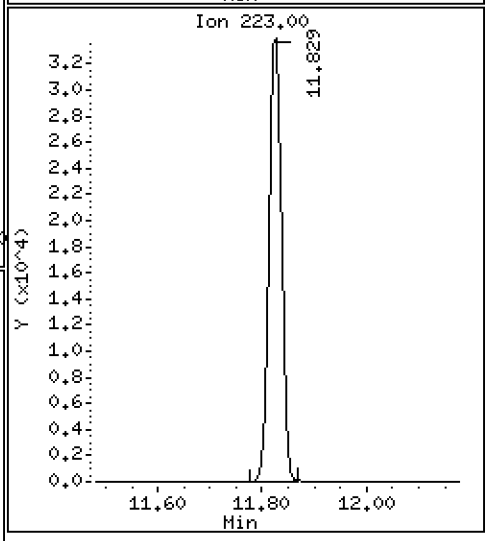
30 Hexachlorobutadiene

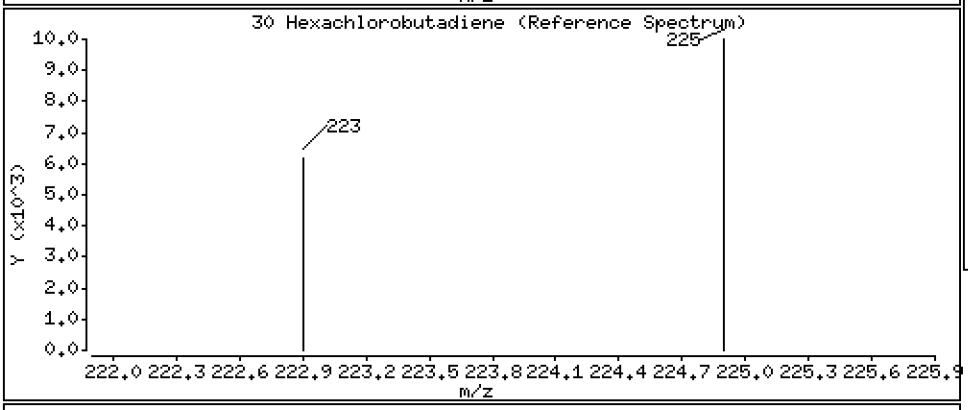
Concentration: 4.166 ug/L

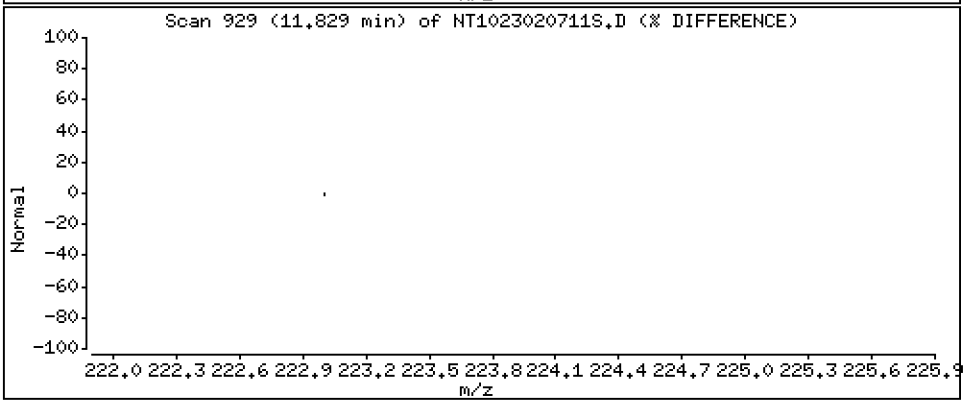












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

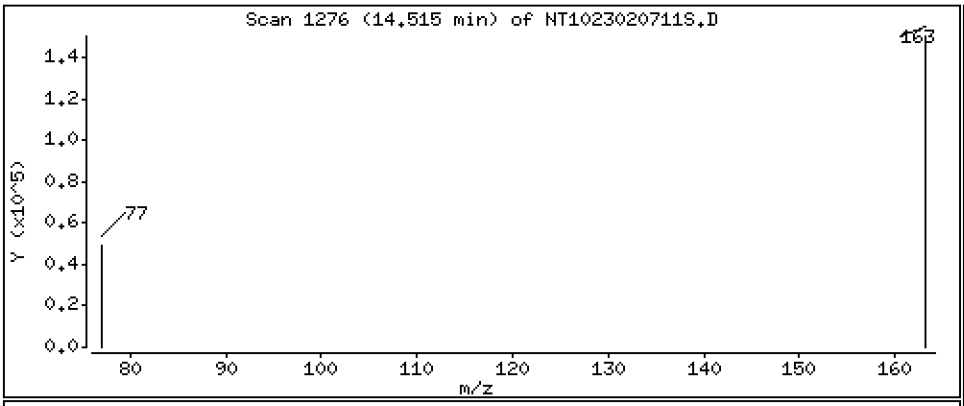
Operator: DSD

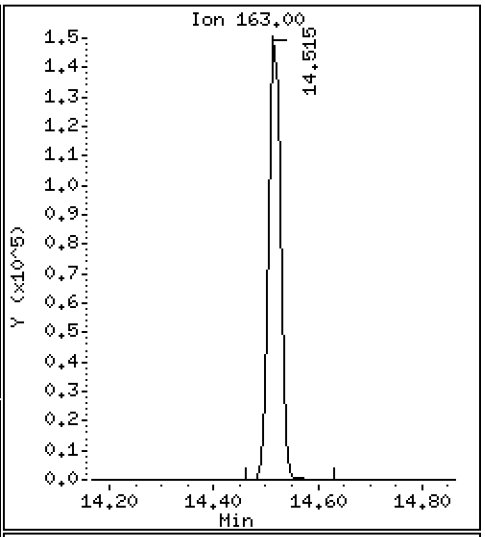
Column phase: ZB-5msi

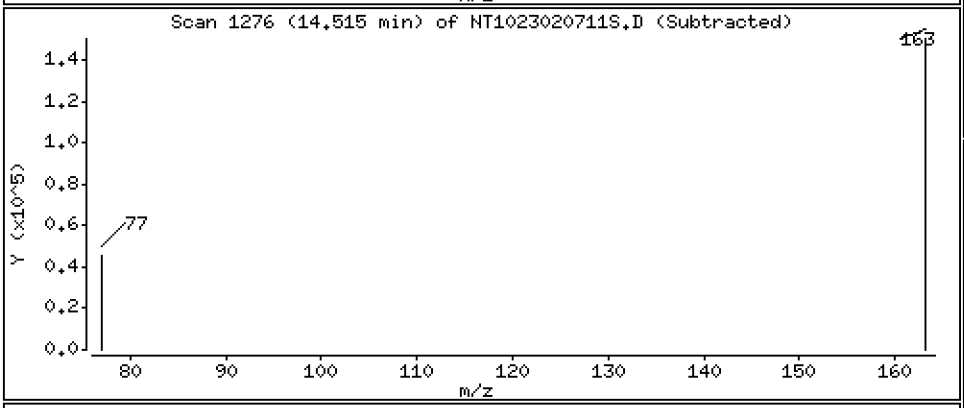
Column diameter: 0.25

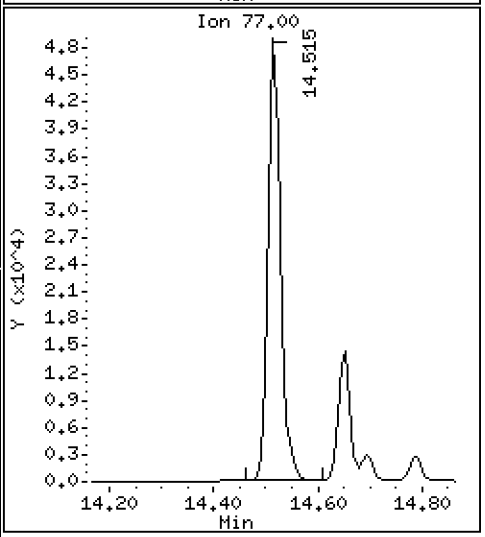
39 Dimethylphthalate

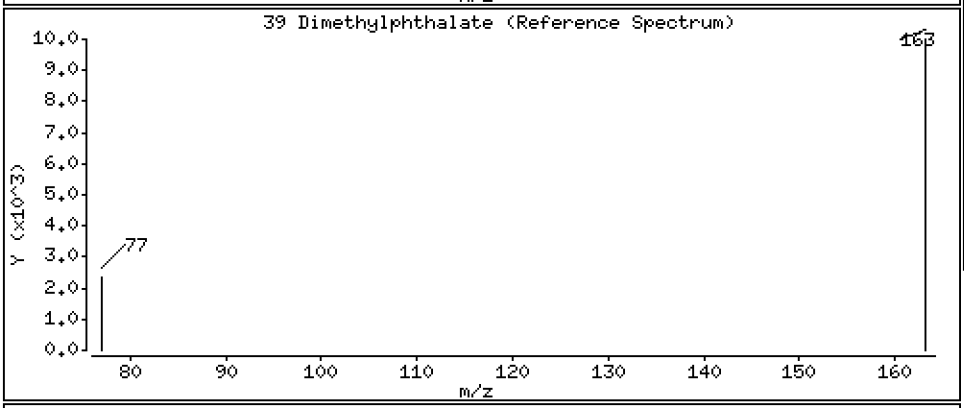
Concentration: 4.173 ug/L

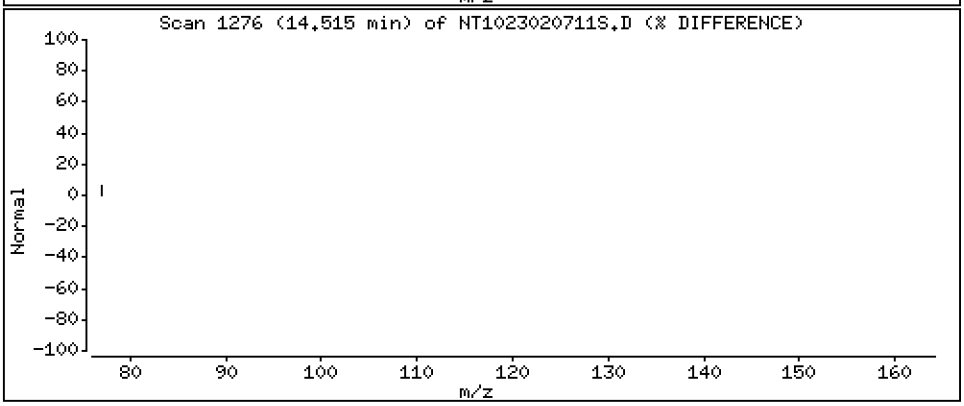












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

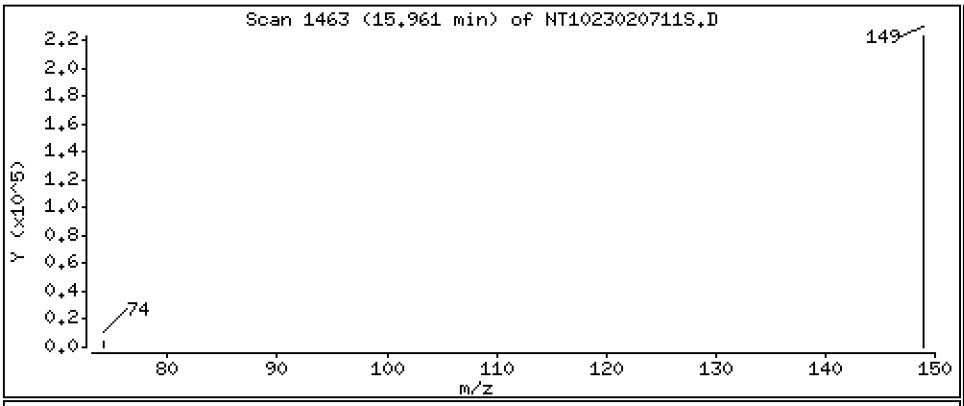
Operator: DSD

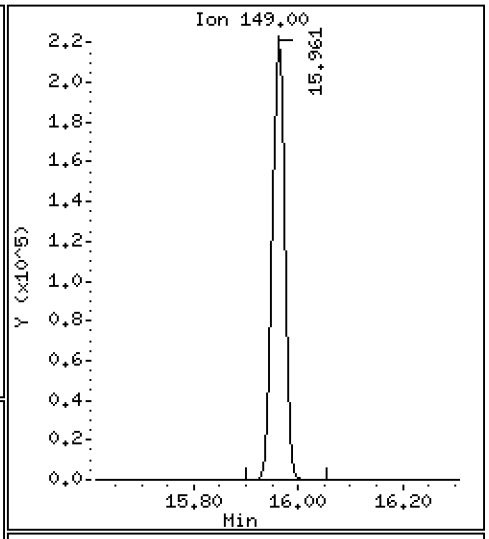
Column phase: ZB-5msi

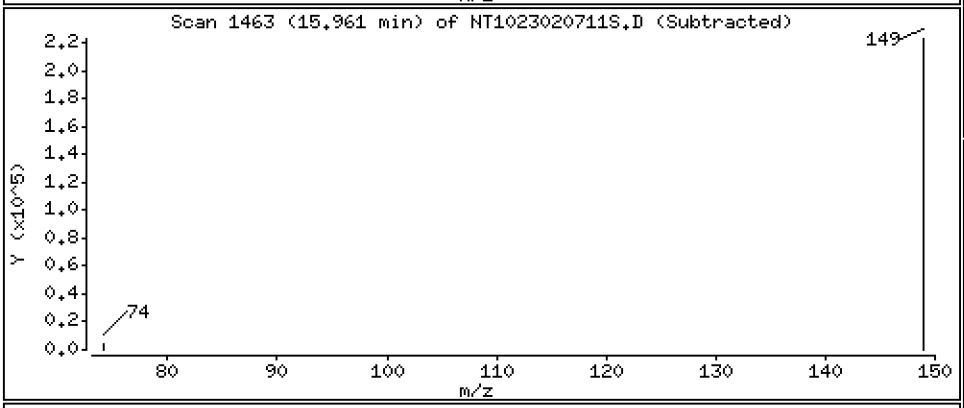
Column diameter: 0.25

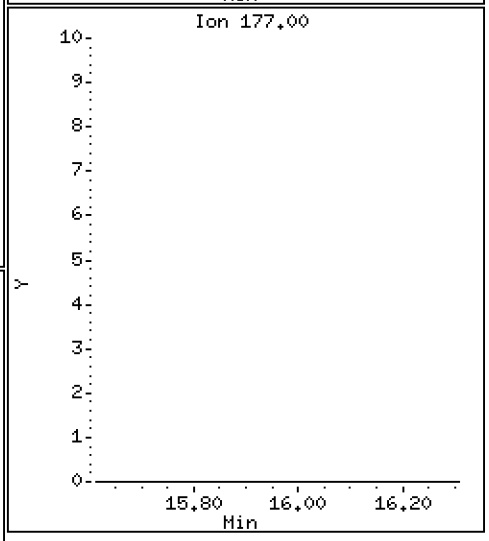
50 Diethylphthalate

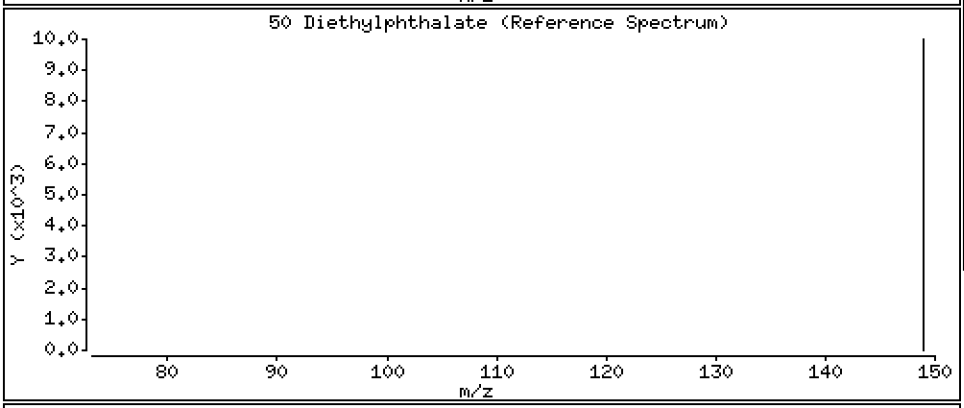
Concentration: 4.282 ug/L

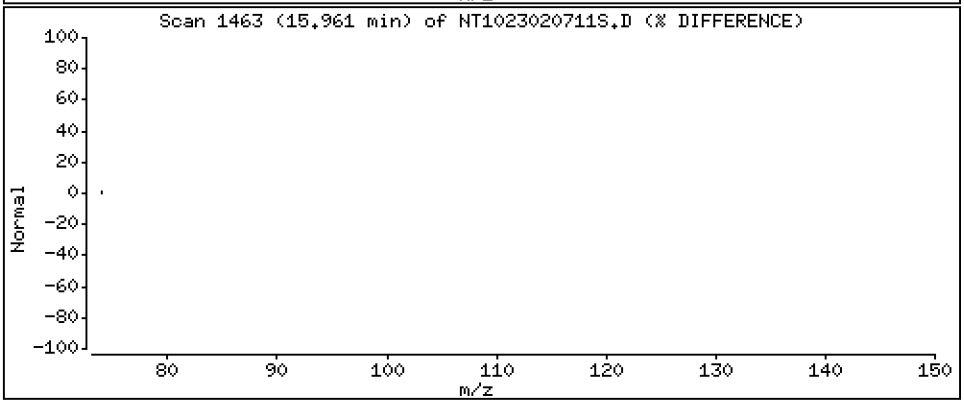












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

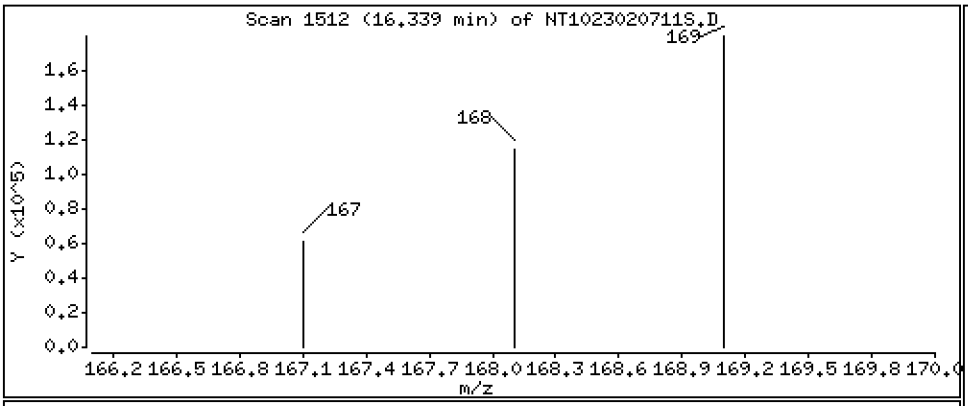
Operator: DSD

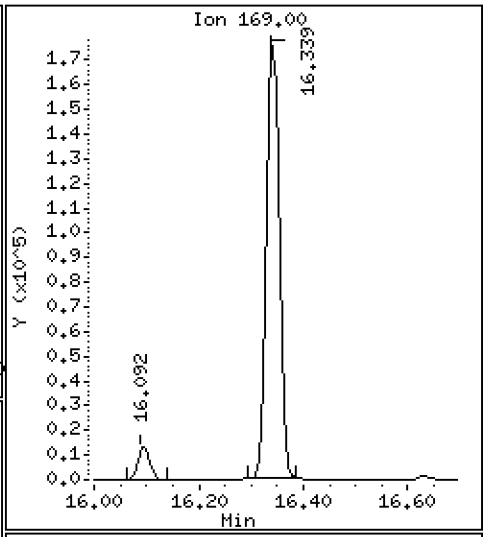
Column phase: ZB-5msi

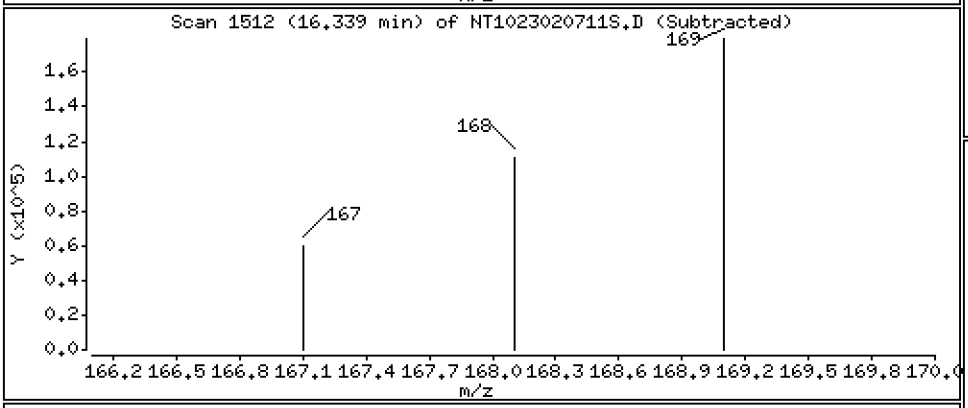
Column diameter: 0.25

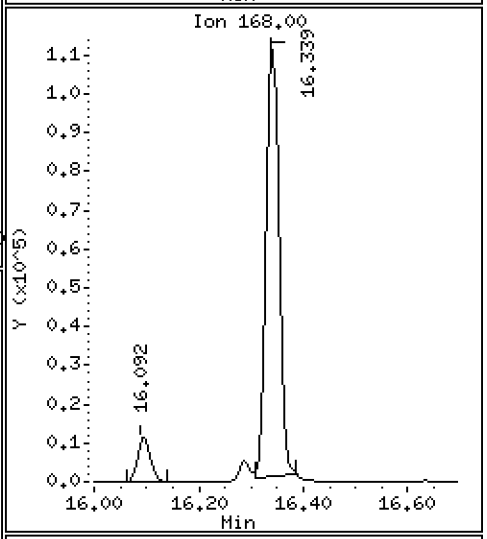
54 N-Nitrosodiphenylamine

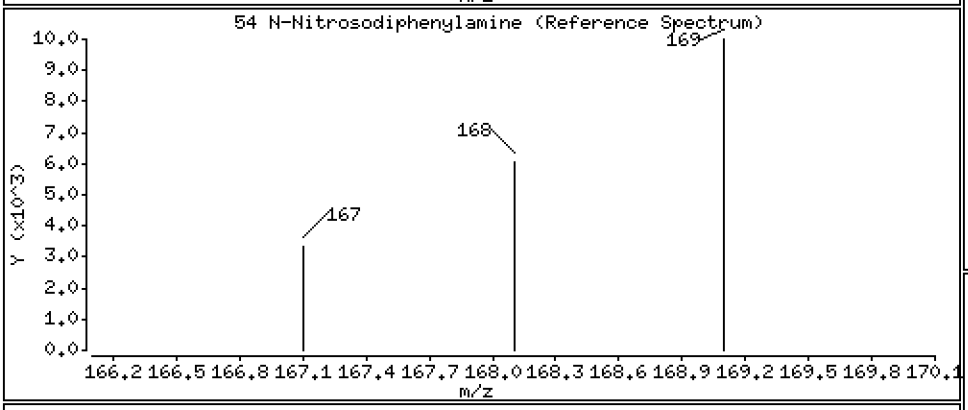
Concentration: 4.205 ug/L

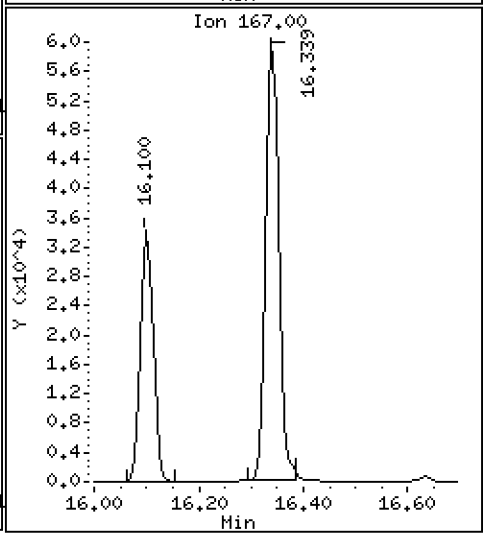


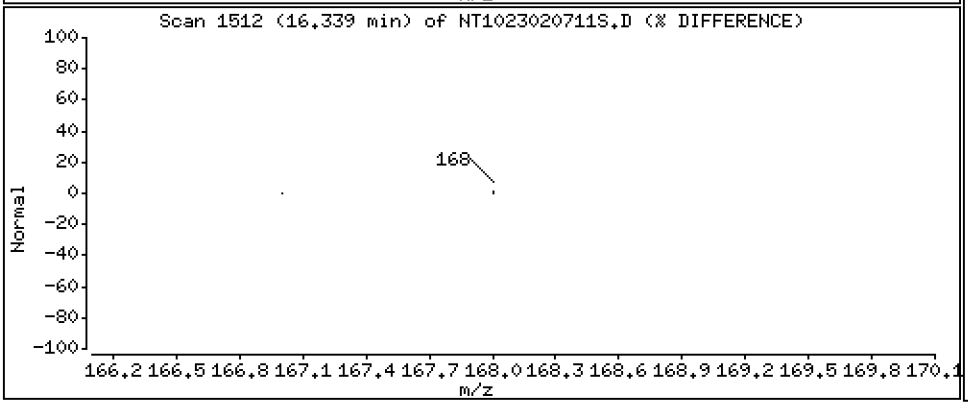












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Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

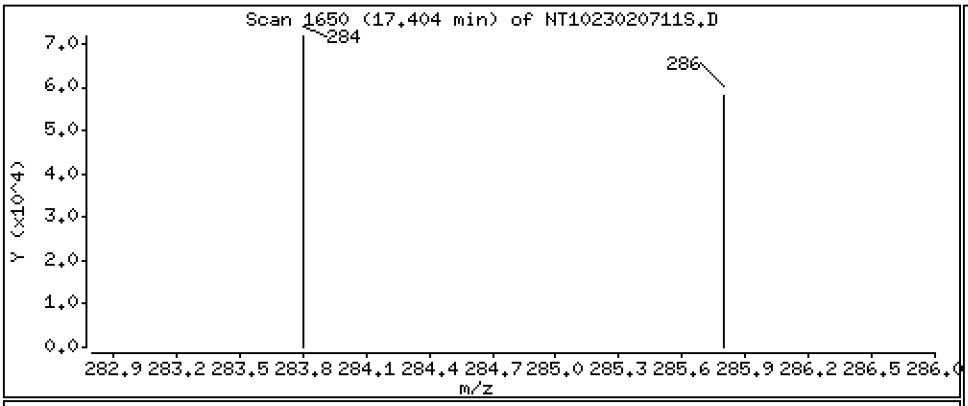
Operator: DSD

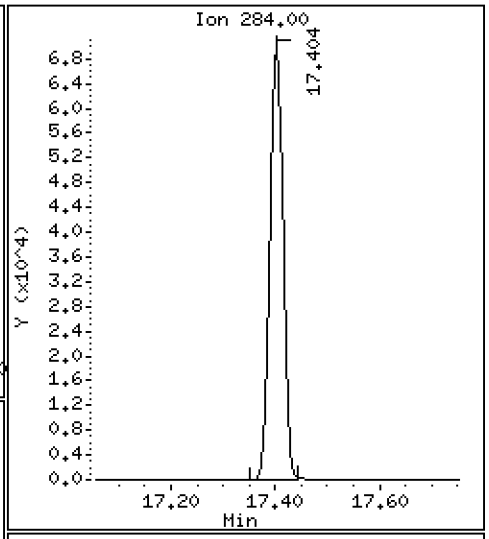
Column phase: ZB-5msi

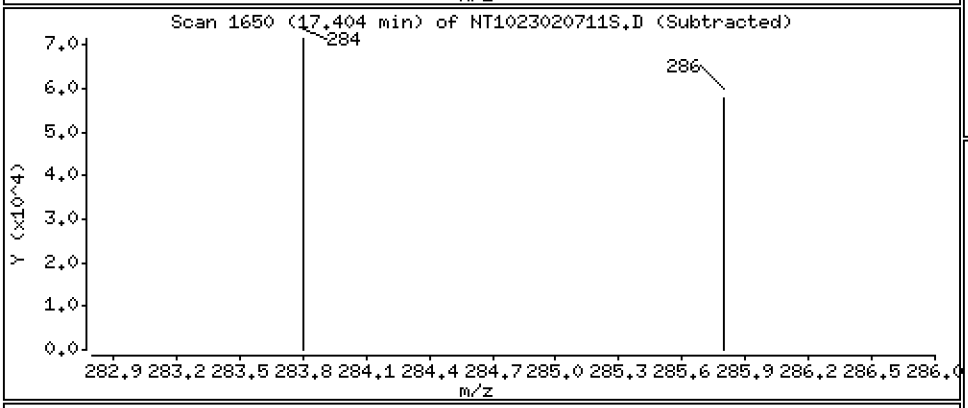
Column diameter: 0.25

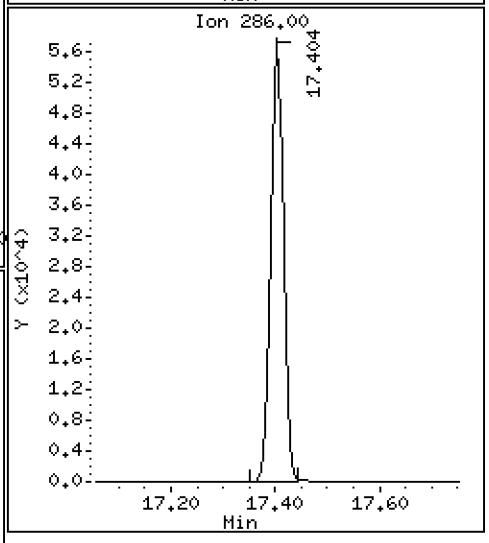
57 Hexachlorobenzene

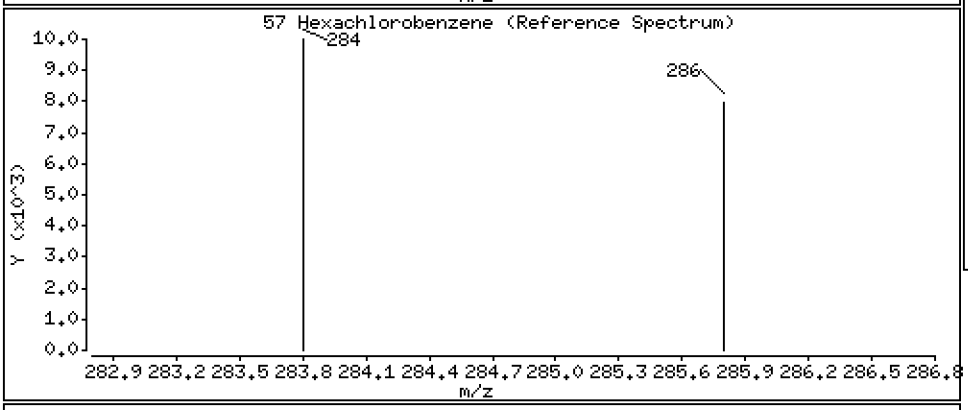
Concentration: 4.026 ug/L

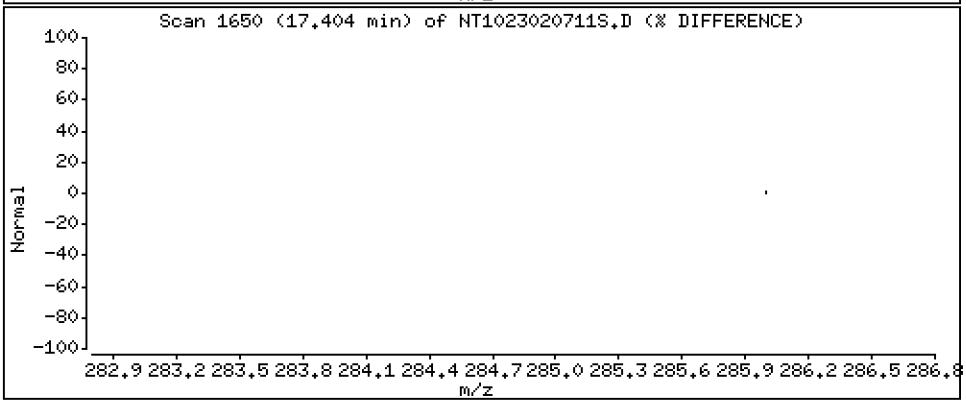












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

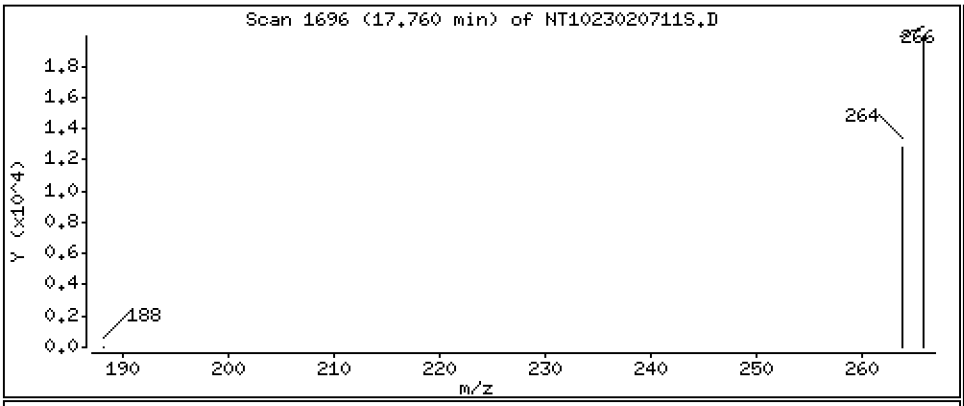
Operator: DSD

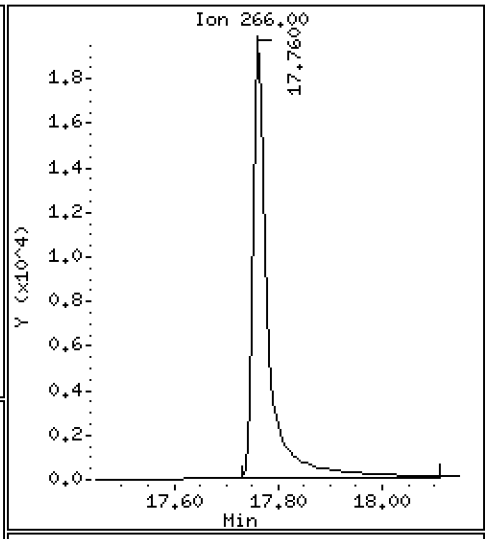
Column phase: ZB-5msi

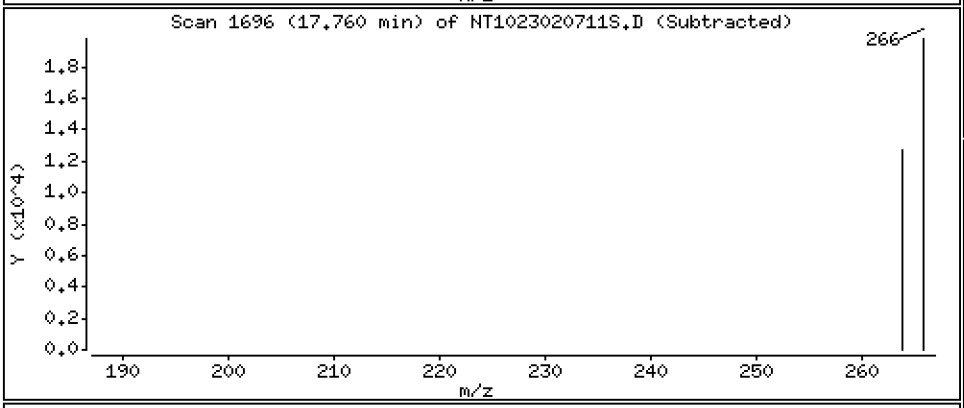
Column diameter: 0.25

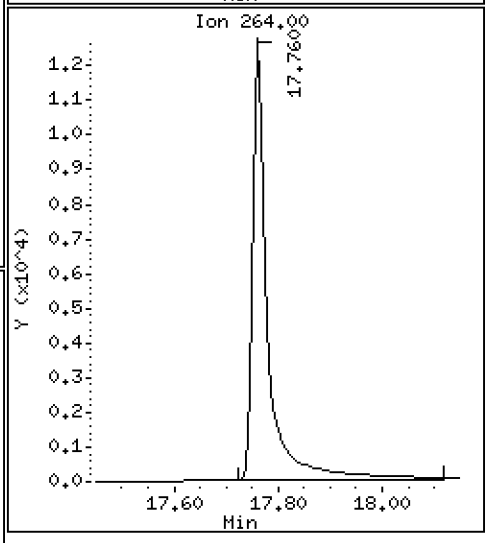
58 Pentachlorophenol

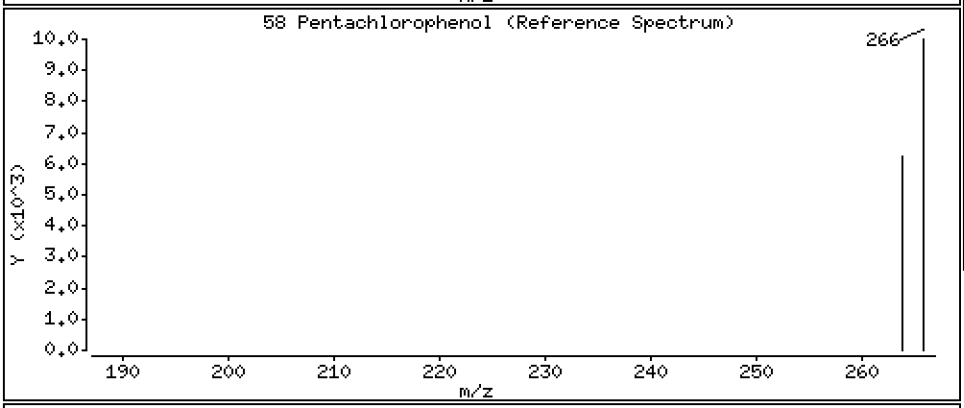
Concentration: 3.994 ug/L

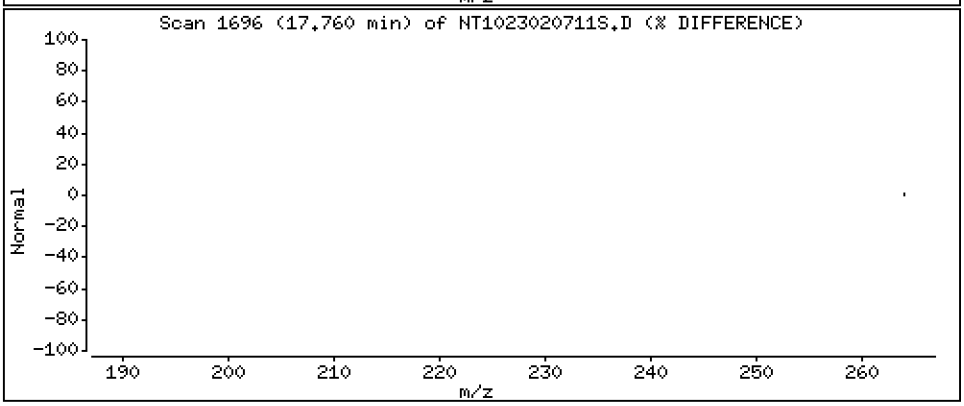












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207115.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

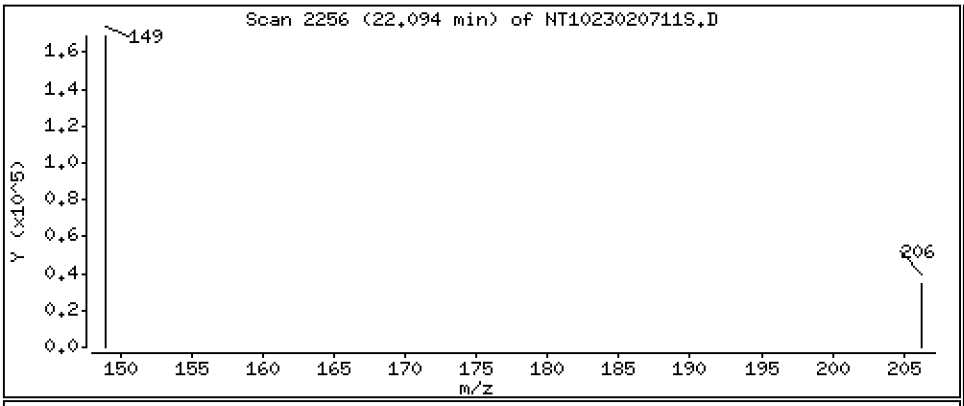
Operator: DSD

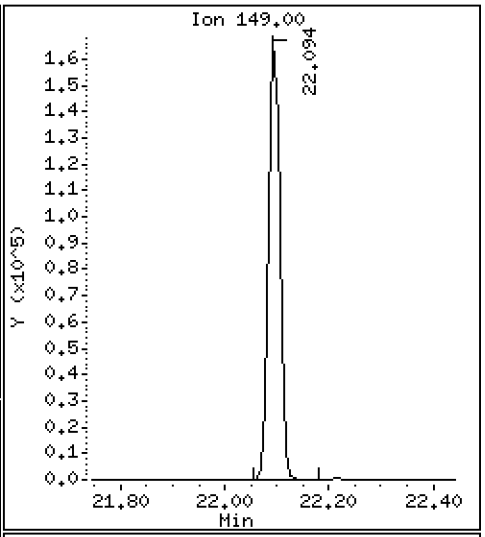
Column phase: ZB-5msi

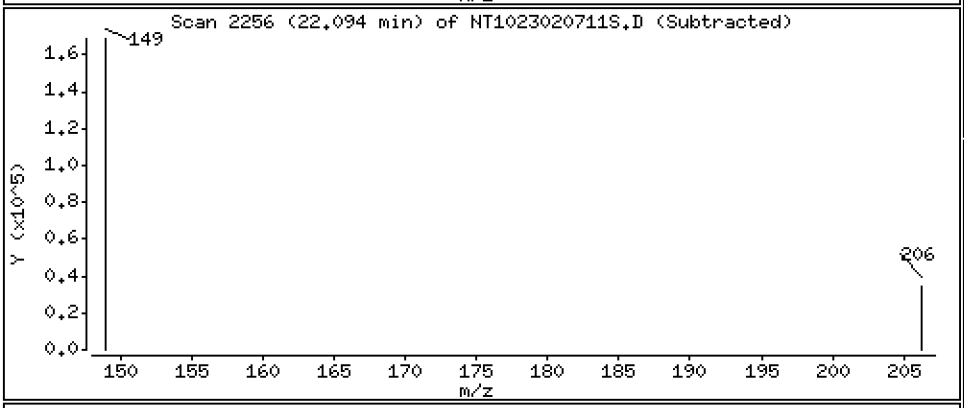
Column diameter: 0.25

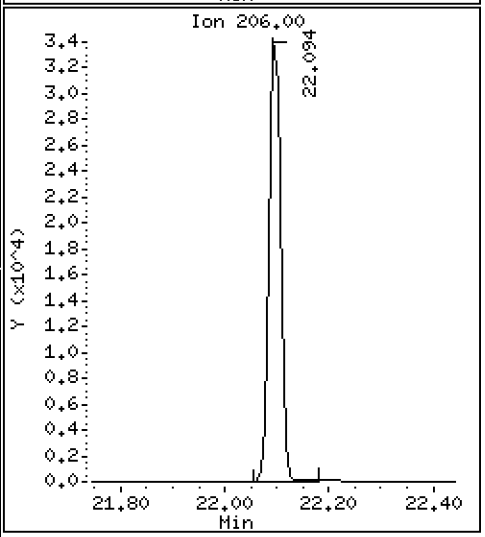
67 Butylbenzylphthalate

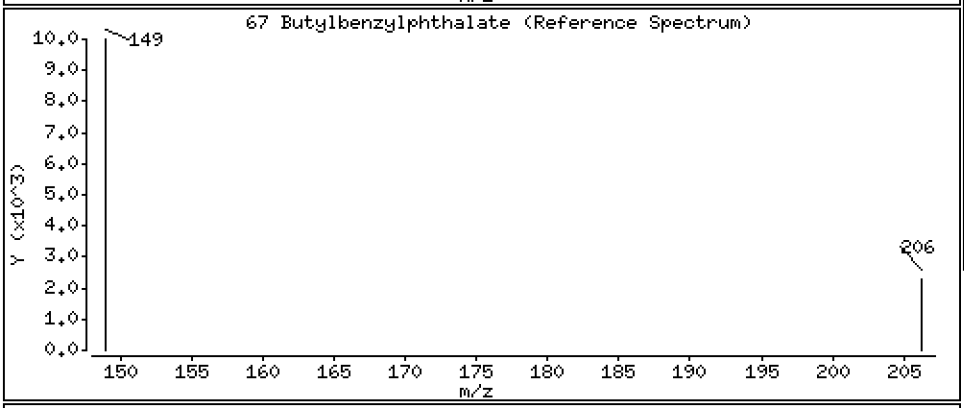
Concentration: 4.408 ug/L

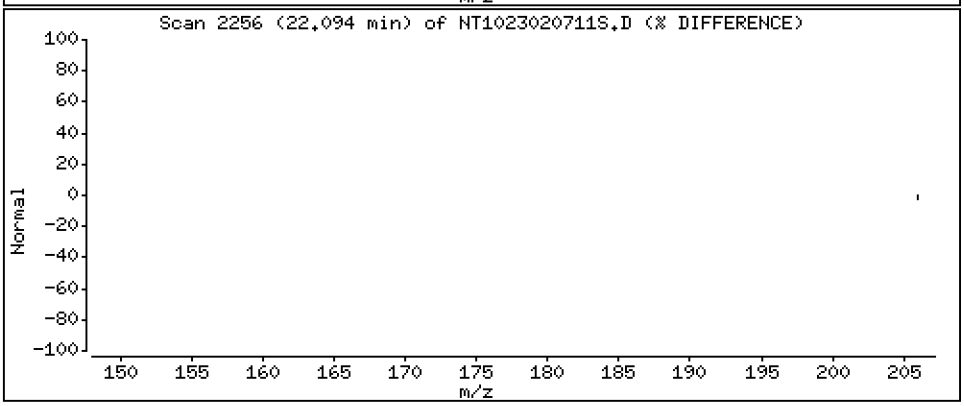












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

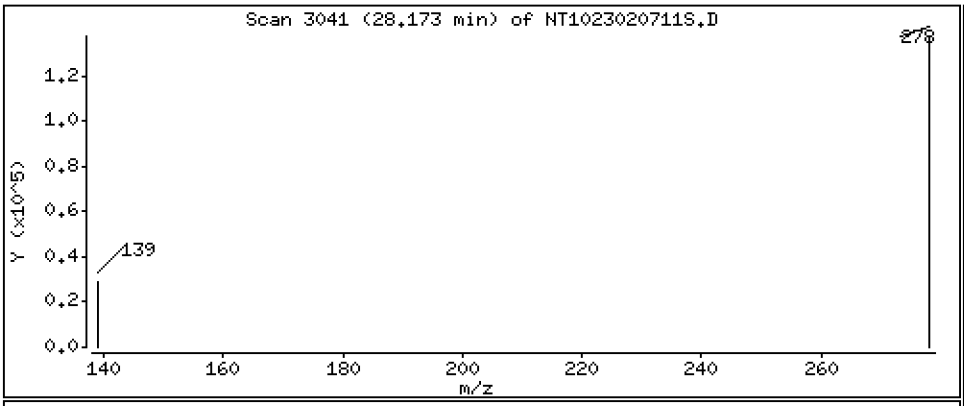
Operator: DSD

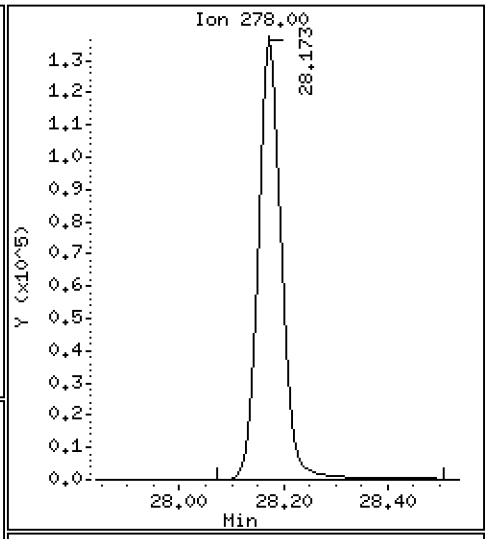
Column phase: ZB-5msi

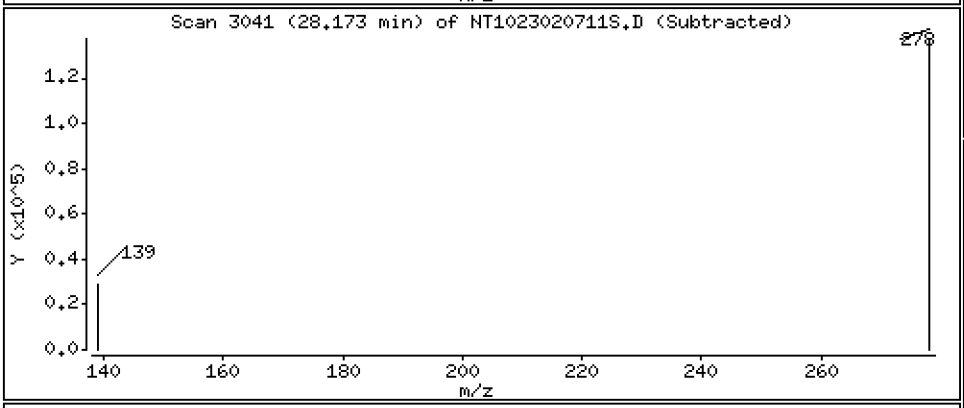
Column diameter: 0.25

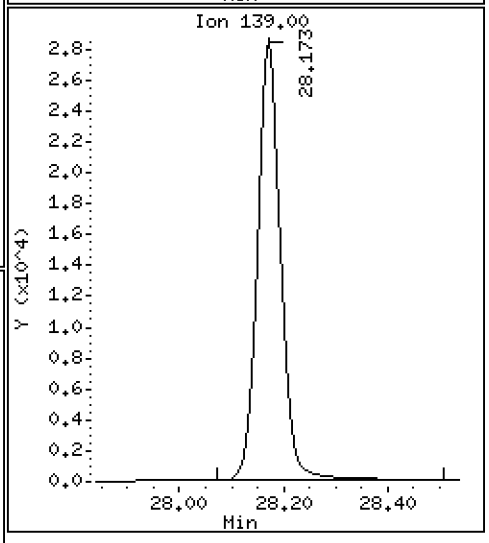
79 Dibenzo(a,h)anthracene

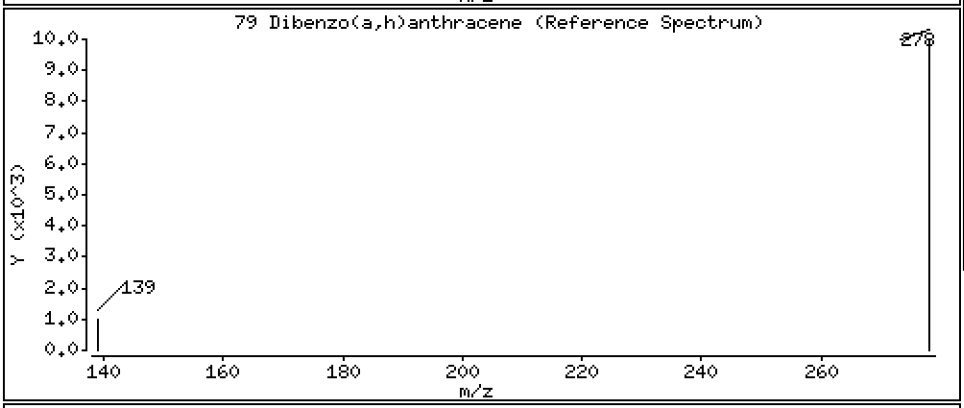
Concentration: 4.213 ug/L

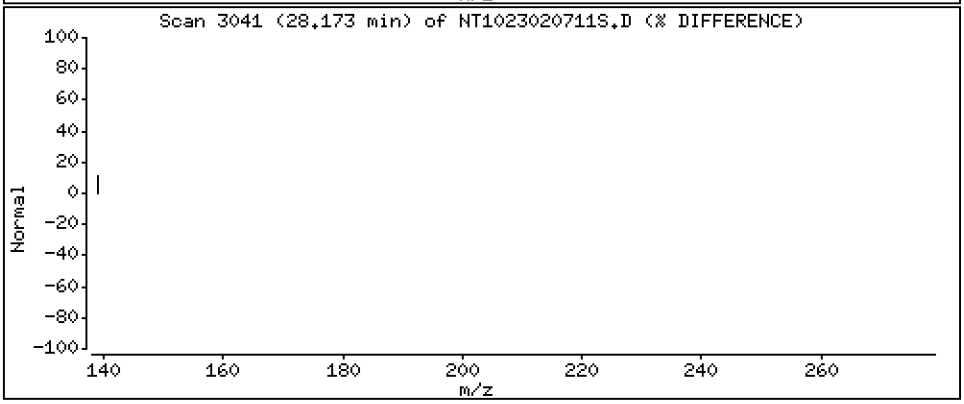












Data File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT10230207 11S.D

Date : 07-FEB-2023 18:04

Client ID:

Instrument: nt10.i

Sample Info: SLB0106-SCV1

Volume Injected (uL): 1.0

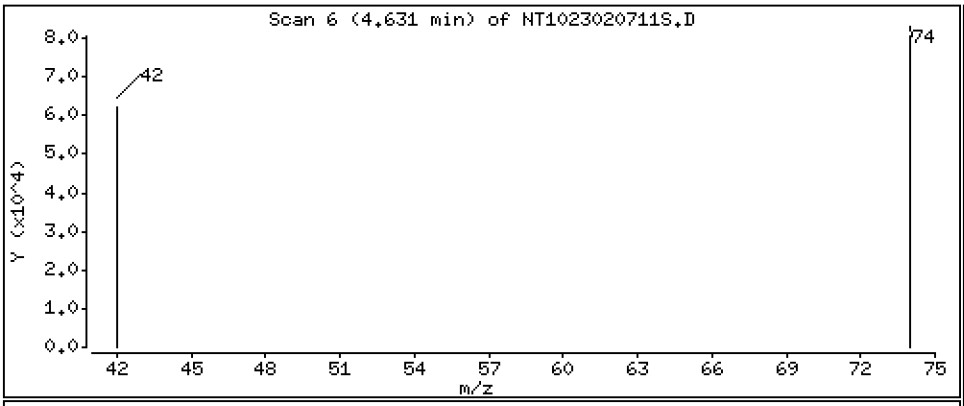
Operator: DSD

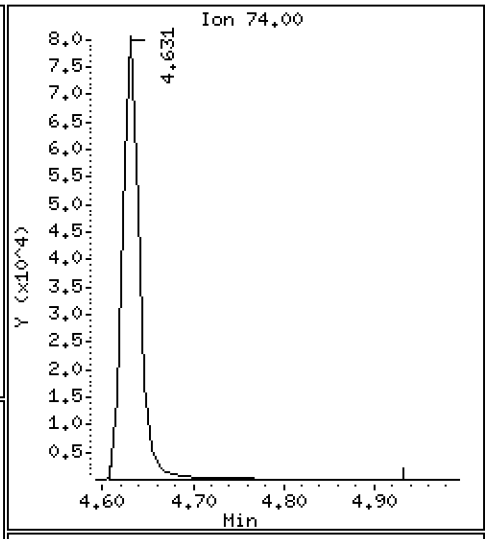
Column phase: ZB-5msi

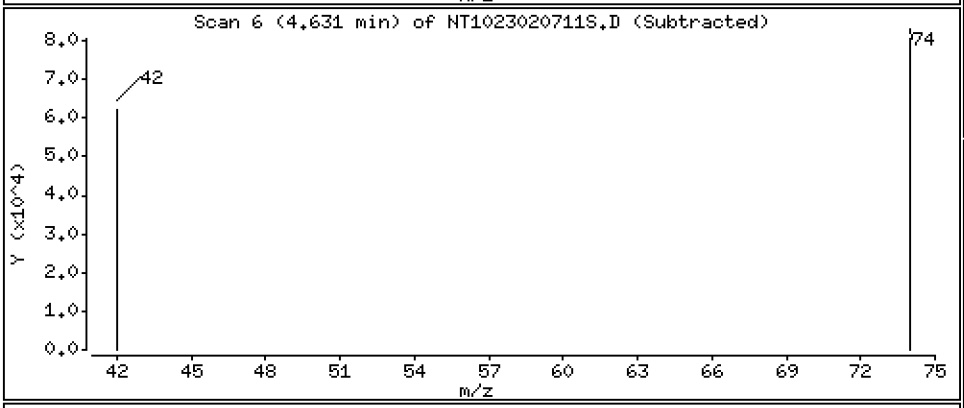
Column diameter: 0.25

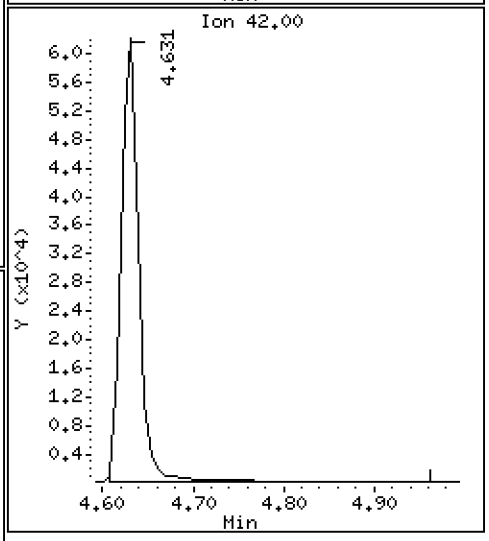
90 N-Nitrosodimethylamine

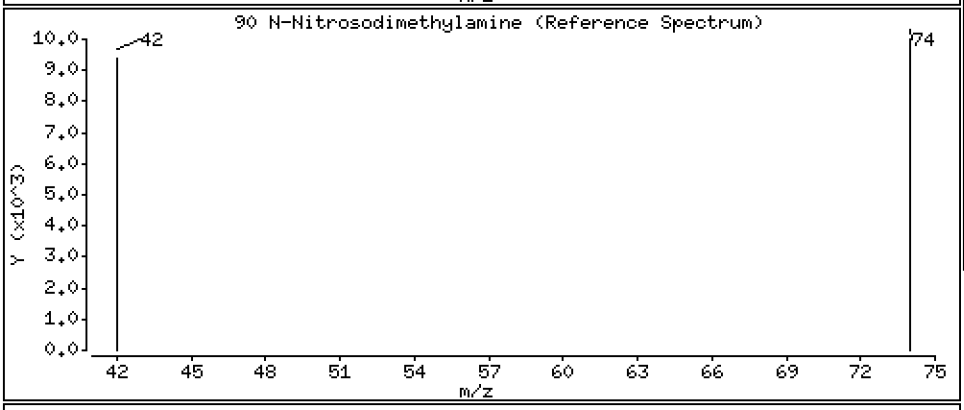
Concentration: 4.486 ug/L

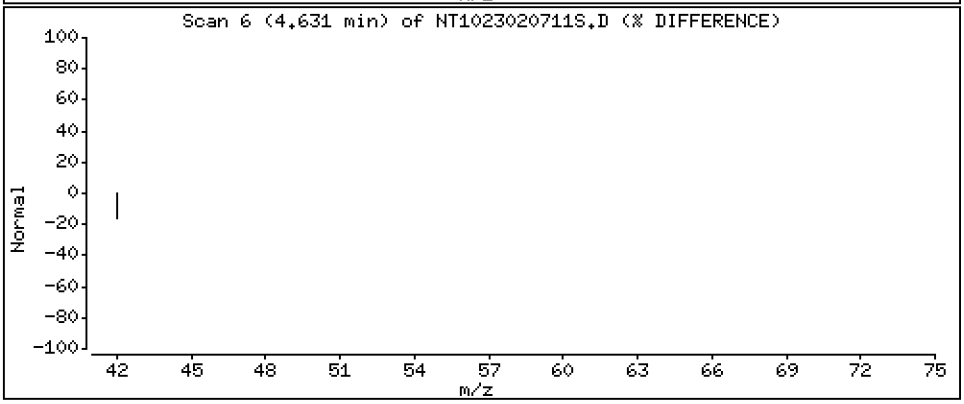












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230207.b\20230207.b\NT1023020711S.D
Lab Smp Id: SLB0106-SCV1
Inj Date : 07-FEB-2023 18:04 MS Autotune Date: 16-JAN-2023 16:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLB0106-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Meth Date : 09-Feb-2023 12:21 van Quant Type: ISTD
Cal Date : 07-FEB-2023 17:25 Cal File: NT1023020710S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.770	6.785	(0.755)	257806	6.97332	6.973(R)
3	Phenol	94	8.362	8.369	(0.933)	232442	4.16958	4.170
7	1,3-Dichlorobenzene	146	8.903	8.903	(0.993)	208793	4.15895	4.159
* 8	1,4-Dichlorobenzene-d4	152	8.965	8.965	(1.000)	121574	4.00000	
9	1,4-Dichlorobenzene	146	8.996	8.996	(1.003)	207977	4.23719	4.237
11	Benzyl alcohol	79	9.228	9.267	(1.029)	133450	4.90710	4.907
12	1,2-Dichlorobenzene	146	9.345	9.345	(1.042)	201423	4.20453	4.205
13	2-Methylphenol	108	9.461	9.469	(1.055)	138888	3.64937	3.649
15	4-Methylphenol	108	9.733	9.741	(1.086)	154509	3.98044	3.980
16	N-Nitroso-di-n-propylamine	70	9.780	9.780	(1.091)	121809	4.39583	4.396
22	2,4-Dimethylphenol	107	10.754	10.763	(0.942)	134677	3.35264	3.353
24	Benzoic acid	105	10.941	11.204	(0.958)	112855	5.88397	5.884
26	1,2,4-Trichlorobenzene	180	11.342	11.342	(0.993)	147977	3.93002	3.930
* 27	Naphthalene-d8	136	11.419	11.419	(1.000)	457304	4.00000	
30	Hexachlorobutadiene	225	11.829	11.829	(1.036)	85644	4.16602	4.166
39	Dimethylphthalate	163	14.514	14.514	(0.967)	225259	4.17269	4.173
* 42	Acenaphthene-d10	162	15.010	15.002	(1.000)	231625	4.00000	
50	Diethylphthalate	149	15.960	15.961	(1.063)	348168	4.28244	4.282
54	N-Nitrosodiphenylamine	169	16.339	16.346	(0.907)	286918	4.20471	4.205
57	Hexachlorobenzene	284	17.404	17.404	(0.966)	116927	4.02634	4.026

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.760	17.799	(0.986)	41808	3.99436	3.994
*	59 Phenanthrene-d10	188	18.015	18.015	(1.000)	412906	4.00000	
$	66 Terphenyl-d14	244	21.164	21.164	(0.917)	336208	4.23932	4.239(R)
	67 Butylbenzylphthalate	149	22.093	22.094	(0.958)	236283	4.40766	4.408
*	69 Chrysene-d12	240	23.069	23.061	(1.000)	357298	4.00000	
*	77 Perylene-d12	264	25.616	25.616	(1.000)	361150	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.173	28.188	(1.100)	426459	4.21339	4.213
	90 N-Nitrosodimethylamine	74	4.631	4.646	(0.517)	108685	4.48609	4.486

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023020711S.D
Lab Smp Id: SLB0106-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230207.b\20230207.b\SIMABN2.m
Misc Info:

Calibration Date: 07-FEB-2023
Calibration Time: 14:52
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128794	64397	257588	121574	-5.61
27 Naphthalene-d8	469043	234522	938086	457304	-2.50
42 Acenaphthene-d10	233225	116613	466450	231625	-0.69
59 Phenanthrene-d10	433858	216929	867716	412906	-4.83
69 Chrysene-d12	361809	180905	723618	357298	-1.25
77 Perylene-d12	380407	190204	760814	361150	-5.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.96	8.46	9.46	8.97	0.00
27 Naphthalene-d8	11.42	10.92	11.92	11.42	0.00
42 Acenaphthene-d10	15.00	14.50	15.50	15.01	0.05
59 Phenanthrene-d10	18.02	17.52	18.52	18.02	0.00
69 Chrysene-d12	23.06	22.56	23.56	23.07	0.03
77 Perylene-d12	25.62	25.12	26.12	25.62	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023020711S.D

Lab ID: SLB0106-SCV1
nt10.i, 20230207.b\20230207.b\SIMABN2.m,   07-FEB-2023 18:04

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.958	0.000	0.9581	Benzoic acid

RRT check based on Ccal File: 20230207.b/NT1023020710S.D

On Column LOD for nt10.i, 20230207.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

* Only compounds listed in the work order have been verified by the analyst *

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0106	Instrument:	NT10
		Calibration:	GB00019

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLB0106-TUN1	NT1023020701S.D	NA	02/07/23 11:54
CAL 10.0	SLB0106-CAL8	NT1023020703S.D	NA	02/07/23 12:57
CAL 5.0	SLB0106-CAL7	NT1023020704S.D	NA	02/07/23 13:35
CAL 2.5	SLB0106-CAL6	NT1023020705S.D	NA	02/07/23 14:14
CAL 1.0	SLB0106-CAL5	NT1023020706S.D	NA	02/07/23 14:52
CAL 0.50	SLB0106-CAL4	NT1023020707S.D	NA	02/07/23 15:30
CAL 0.20	SLB0106-CAL3	NT1023020708S.D	NA	02/07/23 16:09
CAL 0.10	SLB0106-CAL2	NT1023020709S.D	NA	02/07/23 16:47
CAL 0.05	SLB0106-CAL1	NT1023020710S.D	NA	02/07/23 17:25
SCV 5.0	SLB0106-SCV1	NT1023020711S.D	NA	02/07/23 18:04
Initial Cal Check	SLB0106-ICV1	NT1023020714S.D	NA	02/07/23 19:58
LCV 0.1	SLB0106-LCV1	NT1023020715S.D	NA	02/07/23 20:36
ZZZZZ	BLA0160-BLK3	NT1023020716S.D	Solid	02/07/23 21:14
ZZZZZ	BLA0160-BS2	NT1023020717S.D	Solid	02/07/23 21:52
ZZZZZ	BLA0160-BSD2	NT1023020718S.D	Solid	02/07/23 22:30
ZZZZZ	BLA0160-SRM2	NT1023020719S.D	Solid	02/07/23 23:09
ZZZZZ	23A0031-01	NT1023020720S.D	Solid	02/07/23 23:47
ZZZZZ	23A0031-02	NT1023020721S.D	Solid	02/08/23 00:25
ZZZZZ	23A0031-03	NT1023020722S.D	Solid	02/08/23 01:03
ZZZZZ	23A0031-04	NT1023020723S.D	Solid	02/08/23 01:41
ZZZZZ	23A0031-05	NT1023020724S.D	Solid	02/08/23 02:18
ZZZZZ	23A0031-06	NT1023020725S.D	Solid	02/08/23 02:57
ZZZZZ	23A0031-07	NT1023020726S.D	Solid	02/08/23 03:34
ZZZZZ	23A0031-08	NT1023020727S.D	Solid	02/08/23 04:13
ZZZZZ	23A0031-09	NT1023020728S.D	Solid	02/08/23 04:51
ZZZZZ	23A0031-10	NT1023020729S.D	Solid	02/08/23 05:29
ZZZZZ	23A0031-11	NT1023020730S.D	Solid	02/08/23 06:07
ZZZZZ	23A0031-12	NT1023020731S.D	Solid	02/08/23 06:45
ABN 1	SLB0106-ICV2	NT1023020734S.D	NA	02/08/23 08:40

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0106	Instrument:	NT10
		Calibration:	GB00019

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Blank	BLA0064-BLK2	NT1023020736S.D	Solid	02/08/23 09:56
LCS	BLA0064-BS2	NT1023020737S.D	Solid	02/08/23 10:35
LCS Dup	BLA0064-BSD2	NT1023020738S.D	Solid	02/08/23 11:13
LDW23-SC1123B	22L0459-01	NT1023020739S.D	Solid	02/08/23 11:51
LDW23-SC1123B	BLA0064-MS2	NT1023020740S.D	Solid	02/08/23 12:29
LDW23-SC1123B	BLA0064-MSD2	NT1023020741S.D	Solid	02/08/23 13:08
LDW23-SC1053C	22L0459-02	NT1023020742S.D	Solid	02/08/23 13:46
LDW23-SC1039C	22L0459-03	NT1023020743S.D	Solid	02/08/23 14:25
LDW23-SC1007B	22L0459-04	NT1023020744S.D	Solid	02/08/23 15:03
LDW23-SC1002C	22L0459-05	NT1023020745S.D	Solid	02/08/23 15:41
LDW23-SC1070B	22L0459-06	NT1023020746S.D	Solid	02/08/23 16:20
LDW23-SC1091B	22L0459-07	NT1023020747S.D	Solid	02/08/23 16:58
ABN 1	SLB0106-ICV3	NT1023020750S.D	NA	02/08/23 18:52
ZZZZZ	BLA0160-BLK4	NT1023020752S.D	Solid	02/08/23 20:08
ZZZZZ	23A0031-13	NT1023020754S.D	Solid	02/08/23 21:25
ZZZZZ	23A0031-14	NT1023020755S.D	Solid	02/08/23 22:03
ZZZZZ	BLA0160-MS2	NT1023020756S.D	Solid	02/08/23 22:41
ZZZZZ	BLA0160-MSD2	NT1023020757S.D	Solid	02/08/23 23:19
ABN 1	SLB0106-CCV1	NT1023020760S.D	NA	02/09/23 01:13

ANALYSIS SEQUENCE

SLB0106

Instrument ID: NT10
Calibration ID: GB00019
MS EM Level: 1000 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L000749

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLB0106-TUN1	MS Tune	QC		1	K008469		02/07/2023 11:54	NT1023020701S.D	DSD	
SLB0106-CAL8	CAL 10.0	QC		2	K011110	K010831	02/07/2023 12:57	NT1023020703S.D	DSD	
SLB0106-CAL7	CAL 5.0	QC		3	K011109	K010831	02/07/2023 13:35	NT1023020704S.D	DSD	
SLB0106-CAL6	CAL 2.5	QC		4	K011108	K010831	02/07/2023 14:14	NT1023020705S.D	DSD	
SLB0106-CAL5	CAL 1.0	QC		5	K011107	K010831	02/07/2023 14:52	NT1023020706S.D	DSD	
SLB0106-CAL4	CAL 0.50	QC		6	K011106	K010831	02/07/2023 15:30	NT1023020707S.D	DSD	
SLB0106-CAL3	CAL 0.20	QC		7	K011105	K010831	02/07/2023 16:09	NT1023020708S.D	DSD	
SLB0106-CAL2	CAL 0.10	QC		8	K011452	K010831	02/07/2023 16:47	NT1023020709S.D	DSD	
SLB0106-CAL1	CAL 0.05	QC		9	K011453	K010831	02/07/2023 17:25	NT1023020710S.D	DSD	
SLB0106-SCV1	SCV 5.0	QC		10	K010066	K010831	02/07/2023 18:04	NT1023020711S.D	DSD	
SLB0106-ICV1	Initial Cal Check	QC		11	K011107	K010831	02/07/2023 19:58	NT1023020714S.D	DSD	
SLB0106-LCV1	LCV 0.1	QC		12	K011452	K010831	02/07/2023 20:36	NT1023020715S.D	DSD	
BLA0160-BLK3	Blank	QC		13		K010831	02/07/2023 21:14	NT1023020716S.D	DSD	
BLA0160-BS2	LCS	QC		14		K010831	02/07/2023 21:52	NT1023020717S.D	DSD	
BLA0160-BSD2	LCS Dup	QC		15		K010831	02/07/2023 22:30	NT1023020718S.D	DSD	
BLA0160-SRM2	Reference	QC		16		K010831	02/07/2023 23:09	NT1023020719S.D	DSD	
23A0031-01	LDW23-SS1002	270E-SIM Dual Scan SVO	A 01	17		K010831	02/07/2023 23:47	NT1023020720S.D	DSD	
23A0031-02	LDW23-SS1001	270E-SIM Dual Scan SVO	A 01	18		K010831	02/08/2023 00:25	NT1023020721S.D	DSD	
23A0031-03	LDW23-SS1199	270E-SIM Dual Scan SVO	A 01	19		K010831	02/08/2023 01:03	NT1023020722S.D	DSD	
23A0031-04	LDW23-SS1199-FD	270E-SIM Dual Scan SVO	A 01	20		K010831	02/08/2023 01:41	NT1023020723S.D	DSD	
23A0031-05	LDW23-SS1191	270E-SIM Dual Scan SVO	A 01	21		K010831	02/08/2023 02:18	NT1023020724S.D	DSD	
23A0031-06	LDW23-SS1191-FD	270E-SIM Dual Scan SVO	A 01	22		K010831	02/08/2023 02:57	NT1023020725S.D	DSD	

ANALYSIS SEQUENCE

SLB0106

Instrument ID: NT10
Calibration ID: GB00019
MS EM Level: 1000 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L000749

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
23A0031-07	LDW23-SS1177	270E-SIM Dual Scan SVO	A 01	23		K010831	02/08/2023 03:34	NT1023020726S.D	DSD	
23A0031-08	LDW23-SS1177-FD	270E-SIM Dual Scan SVO	A 01	24		K010831	02/08/2023 04:13	NT1023020727S.D	DSD	
23A0031-09	LDW23-SS1156	270E-SIM Dual Scan SVO	A 01	25		K010831	02/08/2023 04:51	NT1023020728S.D	DSD	
23A0031-10	LDW23-SS1156-FD	270E-SIM Dual Scan SVO	A 01	26		K010831	02/08/2023 05:29	NT1023020729S.D	DSD	
23A0031-11	LDW23-SS1143	270E-SIM Dual Scan SVO	A 01	27		K010831	02/08/2023 06:07	NT1023020730S.D	DSD	
23A0031-12	LDW23-SS1143-FD	270E-SIM Dual Scan SVO	A 01	28		K010831	02/08/2023 06:45	NT1023020731S.D	DSD	
SLB0106-ICV2	ABN 1	QC		29	K011107	K010831	02/08/2023 08:40	NT1023020734S.D	DSD	
BLA0064-BLK2	Blank	QC		30		K010831	02/08/2023 09:56	NT1023020736S.D	DSD	
BLA0064-BS2	LCS	QC		31		K010831	02/08/2023 10:35	NT1023020737S.D	DSD	
BLA0064-BSD2	LCS Dup	QC		32		K010831	02/08/2023 11:13	NT1023020738S.D	DSD	
22L0459-01	LDW23-SC1123B	270E-SIM Dual Scan SVO	A 01	33		K010831	02/08/2023 11:51	NT1023020739S.D	DSD	
BLA0064-MS2	Matrix Spike	QC		34		K010831	02/08/2023 12:29	NT1023020740S.D	DSD	
BLA0064-MSD2	Matrix Spike Dup	QC		35		K010831	02/08/2023 13:08	NT1023020741S.D	DSD	
22L0459-02	LDW23-SC1053C	270E-SIM Dual Scan SVO	A 01	36		K010831	02/08/2023 13:46	NT1023020742S.D	DSD	
22L0459-03	LDW23-SC1039C	270E-SIM Dual Scan SVO	A 01	37		K010831	02/08/2023 14:25	NT1023020743S.D	DSD	
22L0459-04	LDW23-SC1007B	270E-SIM Dual Scan SVO	A 01	38		K010831	02/08/2023 15:03	NT1023020744S.D	DSD	
22L0459-05	LDW23-SC1002C	270E-SIM Dual Scan SVO	A 01	39		K010831	02/08/2023 15:41	NT1023020745S.D	DSD	
22L0459-06	LDW23-SC1070B	270E-SIM Dual Scan SVO	A 01	40		K010831	02/08/2023 16:20	NT1023020746S.D	DSD	
22L0459-07	LDW23-SC1091B	270E-SIM Dual Scan SVO	A 01	41		K010831	02/08/2023 16:58	NT1023020747S.D	DSD	
SLB0106-ICV3	ABN 1	QC		42	K011107	K010831	02/08/2023 18:52	NT1023020750S.D	DSD	
BLA0160-BLK4	Blank	QC		43			02/08/2023 20:08	NT1023020752S.D	DSD	
23A0031-13	LDW23-SS1137	270E-SIM Dual Scan SVO	A 01	44		K010831	02/08/2023 21:25	NT1023020754S.D	DSD	

ANALYSIS SEQUENCE

SLB0106

Instrument ID: NT10
Calibration ID: GB00019
MS EM Level: 1000 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L000749

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
23A0031-14	LDW23-SS1138	270E-SIM Dual Scan SVO	A 01	45		K010831	02/08/2023 22:03	NT1023020755S.D	DSD	
BLA0160-MS2	Matrix Spike	QC		46		K010831	02/08/2023 22:41	NT1023020756S.D	DSD	
BLA0160-MSD2	Matrix Spike Dup	QC		47		K010831	02/08/2023 23:19	NT1023020757S.D	DSD	
SLB0106-CCV1	ABN 1	QC		48	K011107	K010831	02/09/2023 01:13	NT1023020760S.D	DSD	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b

	Time	Filename	LabID	ClientId	DF												
1	1154	NT1023020701S.D	SLB0106-TUN1		1	NO ISTDS FOUND											
2	1218	NT1023020702S.D			1	NO ISTDS FOUND											
3	1257	NT1023020703S.D	SLB0106-CAL8		1	8.96	127627	11.43	477552	15.01	233486	18.02	439772	23.07	343972	25.62	368450
4	1335	NT1023020704S.D	SLB0106-CAL7		1	8.96	117157	11.42	443872	15.00	226196	18.02	406281	23.07	352619	25.62	360424
5	1414	NT1023020705S.D	SLB0106-CAL6		1	8.96	120943	11.42	451498	15.00	230284	18.02	411788	23.07	362547	25.62	370447
6	1452	NT1023020706S.D	SLB0106-CAL5		1	8.96	128794	11.42	469043	15.00	233225	18.02	433858	23.06	361809	25.62	380407
7	1530	NT1023020707S.D	SLB0106-CAL4		1	8.97	134585	11.42	492819	15.00	241419	18.02	453837	23.06	377942	25.62	396018
8	1609	NT1023020708S.D	SLB0106-CAL3		1	8.96	110996	11.42	400386	15.00	198387	18.02	365385	23.06	297264	25.62	312718
9	1647	NT1023020709S.D	SLB0106-CAL2		1	8.96	136875	11.42	493562	15.00	242772	18.02	447005	23.06	366662	25.62	385910
10	1725	NT1023020710S.D	SLB0106-CAL1		1	8.97	114171	11.42	413714	15.00	201294	18.02	378490	23.06	311028	25.62	320643
11	1804	NT1023020711S.D	SLB0106-SCV1		1	8.97	121574	11.42	457304	15.01	231625	18.02	412906	23.07	357298	25.62	361150
12	1842	NT1023020712S.D			1	NO ISTDS FOUND											
13	1920	NT1023020713S.D	SEQ-LCV1		1	8.96	127448	11.42	459191	15.00	228840	18.02	413751	23.06	342486	25.62	357565
14	1958	NT1023020714S.D	SLB0106-ICV1		1	8.97	127975	11.42	464967	15.00	234978	18.02	431277	23.07	358788	25.62	370755
15	2036	NT1023020715S.D	SLB0106-LCV1		1	8.96	137052	11.42	493177	15.00	243620	18.02	446506	23.06	370022	25.62	388403
16	2114	NT1023020716S.D	BLA0160-BLK3		1	8.97	110723	11.42	402412	15.00	198377	18.02	367157	23.06	298048	25.62	282205
17	2152	NT1023020717S.D	BLA0160-BS2		1	8.97	110807	11.42	403307	15.01	202270	18.02	373870	23.07	306885	25.62	305930
18	2230	NT1023020718S.D	BLA0160-BSD2		1	8.96	112259	11.42	411473	15.01	204242	18.02	378986	23.07	304094	25.62	300628
19	2309	NT1023020719S.D	BLA0160-SRM2		1	8.96	112114	11.42	410278	15.00	203758	18.02	385638	23.07	301014	25.62	290133
20	2347	NT1023020720S.D	23A0031-01		1	8.96	107965	11.42	398657	15.00	196682	18.02	351390	23.07	270613	25.62	328913

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b

	Time	Filename	LabID	ClientId	DF												
21	0025	NT1023020721S.D	23A0031-02		1	8.97	112022	11.42	417387	15.01	206013	18.02	383214	23.07	283048	25.63	338155
22	0103	NT1023020722S.D	23A0031-03		1	8.96	100015	11.42	372094	15.00	180738	18.02	329551	23.07	244901	25.63	299557
23	0141	NT1023020723S.D	23A0031-04		1	8.97	109315	11.42	410277	15.01	199704	18.02	372823	23.07	275317	25.63	325043
24	0218	NT1023020724S.D	23A0031-05		1	8.97	102071	11.42	380853	15.01	187319	18.02	346716	23.07	258406	25.63	308547
25	0257	NT1023020725S.D	23A0031-06		1	8.97	104003	11.43	387135	15.01	189939	18.02	361779	23.07	267322	25.63	309509
26	0334	NT1023020726S.D	23A0031-07		1	8.97	98993	11.42	371726	15.01	181917	18.02	336826	23.08	253244	25.63	298568
27	0413	NT1023020727S.D	23A0031-08		1	8.97	104338	11.43	394877	15.01	194034	18.02	358656	23.08	274629	25.64	313774
28	0451	NT1023020728S.D	23A0031-09		1	8.97	103917	11.43	394505	15.01	191584	18.02	355293	23.08	276147	25.65	297452
29	0529	NT1023020729S.D	23A0031-10		1	8.97	106518	11.43	402507	15.01	194380	18.03	358489	23.08	281548	25.65	300684
30	0607	NT1023020730S.D	23A0031-11		1	8.97	92717	11.43	351247	15.01	166081	18.02	312170	23.08	243505	25.63	275249
31	0645	NT1023020731S.D	23A0031-12		1	8.97	89897	11.43	337409	15.01	161506	18.02	297891	23.08	238544	25.64	263371
32	0724	NT1023020732S.D	SEQ-ICV2		1	8.97	115715	11.43	441080	15.01	220681	18.02	400233	23.08	345619	25.63	382335
33	0802	NT1023020733S.D	SEQ-LCV2		1	8.97	120550	11.43	440099	15.01	211763	18.02	390655	23.07	319612	25.62	370093
34	0840	NT1023020734S.D	SLB0106-ICV2		1	8.97	123596	11.43	454738	15.01	223117	18.02	408770	23.07	339328	25.63	382671
35	0918	NT1023020735S.D	SLB0106-LCV2		1	8.97	136631	11.43	494473	15.01	239109	18.02	436435	23.07	359093	25.63	406370
36	0956	NT1023020736S.D	BLA0064-BLK3		1	8.97	120344	11.43	445549	15.01	215301	18.02	395423	23.07	318273	25.62	350817
37	1035	NT1023020737S.D	BLA0064-BS2		1	8.97	89632	11.43	356743	15.01	180593	18.02	334413	23.07	273402	25.62	304782
38	1113	NT1023020738S.D	BLA0064-BSD2		1	8.97	107414	11.43	407123	15.01	201603	18.02	368890	23.07	298075	25.62	333508
39	1151	NT1023020739S.D	22L0459-01		1	8.97	110965	11.43	424736	15.01	204070	18.03	369495	23.09	284476	25.66	290541
40	1229	NT1023020740S.D	BLA0064-MS2		1	8.97	113976	11.43	432968	15.02	207269	18.03	379712	23.11	262267	25.68	260261
41	1308	NT1023020741S.D	BLA0064-MSD2		1	8.97	101164	11.43	388196	15.02	184753	18.04	337160	23.11	249066	25.68	234870

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b

	Time	Filename	LabID	ClientId	DF											
42	1346	NT1023020742S.D	22L0459-02		1	8.97	100891	11.43	392038	15.01	184063	18.03	341544	23.09	262324	25.67	250582
43	1425	NT1023020743S.D	22L0459-03		1	8.97	104328	11.43	406627	15.02	190468	18.04	354546	23.11	237446	25.69	215820
44	1503	NT1023020744S.D	22L0459-04		1	8.97	93235	11.43	366510	15.02	172531	18.03	323195	23.09	243552	25.66	225418
45	1541	NT1023020745S.D	22L0459-05		1	8.97	87773	11.43	343641	15.02	161215	18.04	299100	23.10	225102	25.69	189075
46	1620	NT1023020746S.D	22L0459-06		1	8.97	89484	11.43	348042	15.02	160019	18.04	301023	23.11	230142	25.69	184992
47	1658	NT1023020747S.D	22L0459-07		1	8.97	87825	11.43	345632	15.02	161330	18.04	302095	23.10	221246	25.67	188691
48	1736	NT1023020748S.D	SEQ-ICV3		1	8.97	85503	11.43	322816	15.02	162377	18.03	296201	23.08	269910	25.65	230520
49	1814	NT1023020749S.D	SEQ-LCV3		1	8.97	92311	11.43	336993	15.02	159967	18.03	300791	23.08	265211	25.64	229502
50	1852	NT1023020750S.D	SLB0106-ICV3		1	8.97	95705	11.43	353101	15.02	170881	18.03	321878	23.08	279976	25.65	238134
51	1931	NT1023020751S.D	SLB0106-LCV2		1	8.97	106466	11.43	387137	15.02	180160	18.03	334996	23.08	298320	25.64	251310
52	2008	NT1023020752S.D	BLA0160-BLK4		1	8.97	76782	11.43	288603	15.02	136246	18.03	252608	23.08	216105	25.64	173878
53	2047	NT1023020753S.D	23A0031-12		1	8.97	67580	11.43	252826	15.02	121531	18.03	222356	23.08	185834	25.65	164863
54	2125	NT1023020754S.D	23A0031-13		1	8.97	62896	11.43	238179	15.02	113969	18.03	207414	23.08	169045	25.66	154288
55	2203	NT1023020755S.D	23A0031-14		1	8.97	65989	11.43	251708	15.02	121538	18.03	225060	23.08	180743	25.65	162217
56	2241	NT1023020756S.D	BLA0160-MS1		1	8.97	67342	11.43	253069	15.02	124418	18.04	231566	23.09	187881	25.66	166627
57	2319	NT1023020757S.D	BLA0160-MSD1		1	8.97	62997	11.43	237770	15.02	116238	18.04	216331	23.08	175285	25.66	153226
58	2357	NT1023020758S.D	SEQ-CCV1		1	8.97	87868	11.44	331321	15.02	168992	18.03	309546	23.08	279182	25.65	221462
59	0035	NT1023020759S.D	SEQ-LCV1		1	8.97	93356	11.43	344344	15.02	165502	18.03	307169	23.08	266666	25.65	211167
60	0113	NT1023020760S.D	SLB0106-CCV1		1	8.97	95964	11.43	350716	15.02	174033	18.03	317531	23.08	279383	25.66	215378
61	0151	NT1023020761S.D	SIM-LCV1		1	8.97	107874	11.43	389989	15.02	183546	18.04	339249	23.08	301426	25.66	229883

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b

Instrument: nt10.i Date: 07-FEB-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
1154	NT1023020701S.D	SLB0106-TUN1	1	NO MANUAL INTEGRATION
1218	NT1023020702S.D		1	NO MANUAL INTEGRATION
1257	NT1023020703S.D	SLB0106-CAL8	1	NO MANUAL INTEGRATION
1335	NT1023020704S.D	SLB0106-CAL7	1	NO MANUAL INTEGRATION
1414	NT1023020705S.D	SLB0106-CAL6	1	NO MANUAL INTEGRATION
1452	NT1023020706S.D	SLB0106-CAL5	1	NO MANUAL INTEGRATION
1530	NT1023020707S.D	SLB0106-CAL4	1	NO MANUAL INTEGRATION
1609	NT1023020708S.D	SLB0106-CAL3	1	Benzoic acid, Pentachlorophenol,
1647	NT1023020709S.D	SLB0106-CAL2	1	Pentachlorophenol,
1725	NT1023020710S.D	SLB0106-CAL1	1	Hexachlorobutadiene, Benzyl alcohol, N-Nitroso-di-n-propylamine, Hexachlorobenzene, Pentachlorophenol, Dibenzo Butylbenzylphthalate,
1804	NT1023020711S.D	SLB0106-SCV1	1	NO MANUAL INTEGRATION
1842	NT1023020712S.D		1	NO MANUAL INTEGRATION
1920	NT1023020713S.D	SEQ-LCV1	1	NO MANUAL INTEGRATION
1958	NT1023020714S.D	SLB0106-ICV1	1	NO MANUAL INTEGRATION
2036	NT1023020715S.D	SLB0106-LCV1	1	Benzyl alcohol, N-Nitroso-di-n-propylamine, Pentachlorophenol,
2114	NT1023020716S.D	BLA0160-BLK3	1	NO MANUAL INTEGRATION
2152	NT1023020717S.D	BLA0160-BS2	1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b page

Instrument: nt10.i Date: 07-FEB-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
2230	NT1023020718S.D	BLA0160-BSD2	1	NO MANUAL INTEGRATION
2309	NT1023020719S.D	BLA0160-SRM2	1	NO MANUAL INTEGRATION
2347	NT1023020720S.D	23A0031-01	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 2,4-Dimethylphenol, Dimethylphthalate, Diethylphthalate, Butylbenzyl
0025	NT1023020721S.D	23A0031-02	1	1,4-Dichlorobenzene, Dimethylphthalate, Diethylphthalate, Butylbenzylphthalate,
0103	NT1023020722S.D	23A0031-03	1	1,4-Dichlorobenzene, Benzoic acid, Dimethylphthalate, Pentachlorophenol, Butylbenzylphthalate,
0141	NT1023020723S.D	23A0031-04	1	1,4-Dichlorobenzene, Dimethylphthalate, Pentachlorophenol, Butylbenzylphthalate,
0218	NT1023020724S.D	23A0031-05	1	1,4-Dichlorobenzene, Benzoic acid, Diethylphthalate, Pentachlorophenol, Butylbenzylphthalate,
0257	NT1023020725S.D	23A0031-06	1	1,4-Dichlorobenzene, Benzoic acid, Diethylphthalate, Pentachlorophenol, Butylbenzylphthalate,
0334	NT1023020726S.D	23A0031-07	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Methylphenol, Benzoic acid, Dimethylphthalate, Diethylphthalate, Pentachlorophenol, Butylbenzylphthalate,
0413	NT1023020727S.D	23A0031-08	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Benzoic acid, Dimethylphthalate, Diethylphthalate, Pentachlorophenol Butylbenzylphthalate,
0451	NT1023020728S.D	23A0031-09	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzoic acid, Dimethylphthalate, Diethylphthalate, Pentachlorophenol Dibenzo(a,h)anthracene, Butylbenzylphthalate,
0529	NT1023020729S.D	23A0031-10	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Dimethylphthalate, Diethylphthalate, Pentachlorophenol, Dibenzo(a,h) Butylbenzylphthalate,
0607	NT1023020730S.D	23A0031-11	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzoic acid, Dimethylphthalate, Pentachlorophenol, Butylbenzylphtha
0645	NT1023020731S.D	23A0031-12	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Dimethylphthalate, Diethylphthalate, Pentachlorophenol, Butylbenzylp
0724	NT1023020732S.D	SEQ-ICV2	1	NO MANUAL INTEGRATION
0802	NT1023020733S.D	SEQ-LCV2	1	NO MANUAL INTEGRATION
0840	NT1023020734S.D	SLB0106-ICV2	1	NO MANUAL INTEGRATION
0918	NT1023020735S.D	SLB0106-LCV2	1	Pentachlorophenol,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b page

Instrument: nt10.i Date: 08-FEB-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
0956	NT1023020736S.D	BLA0064-BLK3	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Dimethylphthalate,
1035	NT1023020737S.D	BLA0064-BS2	1	Benzoic acid,
1113	NT1023020738S.D	BLA0064-BSD2	1	NO MANUAL INTEGRATION
1151	NT1023020739S.D	22L0459-01	1	1,4-Dichlorobenzene, 2-Methylphenol, 1,2,4-Trichlorobenzene, Dimethylphthalate, Diethylphthalate, N-Nitrosodip Hexachlorobenzene, Pentachlorophenol, Butylbenzylphthalate,
1229	NT1023020740S.D	BLA0064-MS2	1	NO MANUAL INTEGRATION
1308	NT1023020741S.D	BLA0064-MSD2	1	NO MANUAL INTEGRATION
1346	NT1023020742S.D	22L0459-02	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Dimethylphthalate, Diethylphthalate, Hexachlorobenzene, Pentachlorop Butylbenzylphthalate,
1425	NT1023020743S.D	22L0459-03	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Dimethylphthalate, Diethylphthalate, Hexachlorobenzene, Pentachlorop Butylbenzylphthalate,
1503	NT1023020744S.D	22L0459-04	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 2-Methylphenol, Dimethylphthalate, Diethylphtha Pentachlorophenol, Butylbenzylphthalate,
1541	NT1023020745S.D	22L0459-05	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Diethylphthalate, Butylbenzylphthalate,
1620	NT1023020746S.D	22L0459-06	1	Benzoic acid, 1,2,4-Trichlorobenzene, Diethylphthalate, N-Nitrosodiphenylamine, Pentachlorophenol, Butylbenzyl
1658	NT1023020747S.D	22L0459-07	1	Hexachlorobutadiene, 1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene, Diethylphthalate, N-Nitrosodiphenylamine, Pe Butylbenzylphthalate,
1736	NT1023020748S.D	SEQ-ICV3	1	NO MANUAL INTEGRATION
1814	NT1023020749S.D	SEQ-LCV3	1	NO MANUAL INTEGRATION
1852	NT1023020750S.D	SLB0106-ICV3	1	NO MANUAL INTEGRATION
1931	NT1023020751S.D	SLB0106-LCV2	1	Benzoic acid,
2008	NT1023020752S.D	BLA0160-BLK4	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Pentachlorophenol,
2047	NT1023020753S.D	23A0031-12	1	1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Diethylphthalate, Dibenzo(a,h)anthracene, Butylbenzylphthalate,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230207.b\20230207.b page

Instrument: nt10.i Date: 08-FEB-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
2125	NT1023020754S.D	23A0031-13	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Diethylphthalate, N-Nitrosodiphenylamine, Penta Butylbenzylphthalate,
2203	NT1023020755S.D	23A0031-14	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Diethylphthalate, N-Nitrosodiphenylamine, Penta Dibenzo(a,h)anthracene, Butylbenzylphthalate,
2241	NT1023020756S.D	BLA0160-MS1	1	NO MANUAL INTEGRATION
2319	NT1023020757S.D	BLA0160-MSD1	1	NO MANUAL INTEGRATION
2357	NT1023020758S.D	SEQ-CCV1	1	NO MANUAL INTEGRATION
0035	NT1023020759S.D	SEQ-LCV1	1	NO MANUAL INTEGRATION
0113	NT1023020760S.D	SLB0106-CCV1	1	NO MANUAL INTEGRATION
0151	NT1023020761S.D	SIM-LCV1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 10-Feb-2023 09:08

NT1023020701S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020702S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020703S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020704S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020705S.D	Data Locked	van, 10-Feb-2023 09:07
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NT1023020707S.D	Data Locked	van, 10-Feb-2023 09:07
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NT1023020759S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020760S.D	Data Locked	van, 10-Feb-2023 09:07
NT1023020761S.D	Data Locked	van, 10-Feb-2023 09:07

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0106	Instrument:	NT10
Calibration:	GB00019	Calibration Date:	02/07/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLB0106-SCV1 (Solid)			Lab File ID: NT1023020711S.D			Analyzed: 02/07/23 18:04		
2-Fluorophenol	7.5000	93.0	0 - 200	6.77	6.777	-0.0070	N/A	
p-Terphenyl-d14	5.0000	84.8	0 - 200	21.164	21.165	-0.0010	N/A	
SLB0106-ICV1 (Solid)			Lab File ID: NT1023020714S.D			Analyzed: 02/07/23 19:58		
2-Fluorophenol	1.5000	104	80 - 120	6.77	6.777	-0.0070	N/A	
p-Terphenyl-d14	1.0000	104	80 - 120	21.164	21.165	-0.0010	N/A	
SLB0106-LCV1 (Solid)			Lab File ID: NT1023020715S.D			Analyzed: 02/07/23 20:36		
2-Fluorophenol	0.15000	97.9	0 - 200	6.777	6.777	0.0000	N/A	
p-Terphenyl-d14	0.10000	112	0 - 200	21.164	21.165	-0.0010	N/A	
SLB0106-ICV2 (Solid)			Lab File ID: NT1023020734S.D			Analyzed: 02/08/23 08:40		
2-Fluorophenol	1.5000	109	80 - 120	6.777	6.777	0.0000	N/A	
p-Terphenyl-d14	1.0000	112	80 - 120	21.164	21.165	-0.0010	N/A	
BLA0064-BLK2 (Solid)			Lab File ID: NT1023020736S.D			Analyzed: 02/08/23 09:56		
2-Fluorophenol	750.00	75.2	27 - 120	6.785	6.777	0.0080	N/A	
p-Terphenyl-d14	500.00	104	37 - 120	21.172	21.165	0.0070	N/A	
BLA0064-BS2 (Solid)			Lab File ID: NT1023020737S.D			Analyzed: 02/08/23 10:35		
2-Fluorophenol	750.00	47.7	27 - 120	6.785	6.777	0.0080	N/A	
p-Terphenyl-d14	500.00	54.1	37 - 120	21.164	21.165	-0.0010	N/A	
BLA0064-BSD2 (Solid)			Lab File ID: NT1023020738S.D			Analyzed: 02/08/23 11:13		
2-Fluorophenol	750.00	68.6	27 - 120	6.785	6.777	0.0080	N/A	
p-Terphenyl-d14	500.00	97.1	37 - 120	21.164	21.165	-0.0010	N/A	
22L0459-01 (Solid)			Lab File ID: NT1023020739S.D			Analyzed: 02/08/23 11:51		
2-Fluorophenol	749.80	64.9	27 - 120	6.785	6.777	0.0080	N/A	
p-Terphenyl-d14	499.87	92.1	37 - 120	21.187	21.165	0.0220	N/A	
BLA0064-MS2 (Solid)			Lab File ID: NT1023020740S.D			Analyzed: 02/08/23 12:29		
2-Fluorophenol	749.80	64.1	27 - 120	6.785	6.777	0.0080	N/A	
p-Terphenyl-d14	499.87	89.5	37 - 120	21.21	21.165	0.0450	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLB0106
Instrument: NT10
Calibration: GB00019
Calibration Date: 02/07/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLA0064-MSD2 (Solid)			Lab File ID: NT1023020741S.D			Analyzed: 02/08/23 13:08		
2-Fluorophenol	749.80	74.4	27 - 120	6.792	6.777	0.0150	N/A	
p-Terphenyl-d14	499.87	87.4	37 - 120	21.202	21.165	0.0370	N/A	
22L0459-02 (Solid)			Lab File ID: NT1023020742S.D			Analyzed: 02/08/23 13:46		
2-Fluorophenol	748.83	75.8	27 - 120	6.793	6.777	0.0160	N/A	
p-Terphenyl-d14	499.22	106	37 - 120	21.187	21.165	0.0220	N/A	
22L0459-03 (Solid)			Lab File ID: NT1023020743S.D			Analyzed: 02/08/23 14:25		
2-Fluorophenol	749.39	67.4	27 - 120	6.792	6.777	0.0150	N/A	
p-Terphenyl-d14	499.59	88.5	37 - 120	21.21	21.165	0.0450	N/A	
22L0459-04 (Solid)			Lab File ID: NT1023020744S.D			Analyzed: 02/08/23 15:03		
2-Fluorophenol	747.73	68.8	27 - 120	6.793	6.777	0.0160	N/A	
p-Terphenyl-d14	498.49	89.6	37 - 120	21.195	21.165	0.0300	N/A	
22L0459-05 (Solid)			Lab File ID: NT1023020745S.D			Analyzed: 02/08/23 15:41		
2-Fluorophenol	748.71	75.5	27 - 120	6.793	6.777	0.0160	N/A	
p-Terphenyl-d14	499.14	100	37 - 120	21.195	21.165	0.0300	N/A	
22L0459-06 (Solid)			Lab File ID: NT1023020746S.D			Analyzed: 02/08/23 16:20		
2-Fluorophenol	749.55	80.3	27 - 120	6.793	6.777	0.0160	N/A	
p-Terphenyl-d14	499.70	102	37 - 120	21.203	21.165	0.0380	N/A	
22L0459-07 (Solid)			Lab File ID: NT1023020747S.D			Analyzed: 02/08/23 16:58		
2-Fluorophenol	749.02	70.2	27 - 120	6.792	6.777	0.0150	N/A	
p-Terphenyl-d14	499.35	93.9	37 - 120	21.195	21.165	0.0300	N/A	
SLB0106-ICV3 (Solid)			Lab File ID: NT1023020750S.D			Analyzed: 02/08/23 18:52		
2-Fluorophenol	1.5000	112	80 - 120	6.785	6.777	0.0080	N/A	
p-Terphenyl-d14	1.0000	120	80 - 120	21.18	21.165	0.0150	N/A	
SLB0106-CCV1 (Solid)			Lab File ID: NT1023020760S.D			Analyzed: 02/09/23 01:13		
2-Fluorophenol	1.5000	109	50 - 150	6.785	6.777	0.0080	N/A	
p-Terphenyl-d14	1.0000	115	50 - 150	21.18	21.165	0.0150	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0106	Instrument:	NT10
		Calibration:	GB00019

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SLB0106-SCV1)		(Solid)	Lab File ID: NT1023020711S.D				Analyzed: 02/07/23 18:04		
1,4-Dichlorobenzene-d4	121574	8.965	128794	8.965	94	50 - 200	0.000	+/-0.50	
Naphthalene-d8	457304	11.419	469043	11.419	97	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	231625	15.01	233225	15.002	99	50 - 200	0.008	+/-0.50	
Phenanthrene-d10	412906	18.015	433858	18.015	95	50 - 200	0.000	+/-0.50	
Chrysene-d12	357298	23.069	361809	23.061	99	50 - 200	0.008	+/-0.50	
Perylene-d12	361150	25.616	380407	25.616	95	50 - 200	0.000	+/-0.50	
Initial Cal Check (SLB0106-ICV1)		(Solid)	Lab File ID: NT1023020714S.D				Analyzed: 02/07/23 19:58		
1,4-Dichlorobenzene-d4	127975	8.965	128794	8.965	99	50 - 200	0.000	+/-0.50	
Naphthalene-d8	464967	11.419	469043	11.419	99	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	234978	15.002	233225	15.002	101	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	431277	18.015	433858	18.015	99	50 - 200	0.000	+/-0.50	
Chrysene-d12	358788	23.069	361809	23.061	99	50 - 200	0.008	+/-0.50	
Perylene-d12	370755	25.616	380407	25.616	97	50 - 200	0.000	+/-0.50	
Low Cal Check (SLB0106-LCV1)		(Solid)	Lab File ID: NT1023020715S.D				Analyzed: 02/07/23 20:36		
1,4-Dichlorobenzene-d4	137052	8.964	128794	8.965	106	50 - 200	-0.001	+/-0.50	
Naphthalene-d8	493177	11.419	469043	11.419	105	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	243620	15.002	233225	15.002	104	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	446506	18.015	433858	18.015	103	50 - 200	0.000	+/-0.50	
Chrysene-d12	370022	23.061	361809	23.061	102	50 - 200	0.000	+/-0.50	
Perylene-d12	388403	25.616	380407	25.616	102	50 - 200	0.000	+/-0.50	
Initial Cal Check (SLB0106-ICV2)		(Solid)	Lab File ID: NT1023020734S.D				Analyzed: 02/08/23 08:40		
1,4-Dichlorobenzene-d4	123596	8.972	128794	8.965	96	50 - 200	0.007	+/-0.50	
Naphthalene-d8	454738	11.427	469043	11.419	97	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	223117	15.009	233225	15.002	96	50 - 200	0.007	+/-0.50	
Phenanthrene-d10	408770	18.023	433858	18.015	94	50 - 200	0.008	+/-0.50	
Chrysene-d12	339328	23.069	361809	23.061	94	50 - 200	0.008	+/-0.50	
Perylene-d12	382671	25.631	380407	25.616	101	50 - 200	0.015	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0106
SDG: 22L0459
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GB00019

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (BLA0064-BLK2)		(Solid)	Lab File ID: NT1023020736S.D				Analyzed: 02/08/23 09:56		
1,4-Dichlorobenzene-d4	120344	8.965	128794	8.965	93	50 - 200	0.000	+/-0.50	
Naphthalene-d8	445549	11.427	469043	11.419	95	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	215301	15.01	233225	15.002	92	50 - 200	0.008	+/-0.50	
Phenanthrene-d10	395423	18.023	433858	18.015	91	50 - 200	0.008	+/-0.50	
Chrysene-d12	318273	23.069	361809	23.061	88	50 - 200	0.008	+/-0.50	
Perylene-d12	350817	25.624	380407	25.616	92	50 - 200	0.008	+/-0.50	
LCS (BLA0064-BS2)		(Solid)	Lab File ID: NT1023020737S.D				Analyzed: 02/08/23 10:35		
1,4-Dichlorobenzene-d4	89632	8.972	128794	8.965	70	50 - 200	0.007	+/-0.50	
Naphthalene-d8	356743	11.427	469043	11.419	76	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	180593	15.009	233225	15.002	77	50 - 200	0.007	+/-0.50	
Phenanthrene-d10	334413	18.023	433858	18.015	77	50 - 200	0.008	+/-0.50	
Chrysene-d12	273402	23.069	361809	23.061	76	50 - 200	0.008	+/-0.50	
Perylene-d12	304782	25.624	380407	25.616	80	50 - 200	0.008	+/-0.50	
LCS Dup (BLA0064-BSD2)		(Solid)	Lab File ID: NT1023020738S.D				Analyzed: 02/08/23 11:13		
1,4-Dichlorobenzene-d4	107414	8.972	128794	8.965	83	50 - 200	0.007	+/-0.50	
Naphthalene-d8	407123	11.427	469043	11.419	87	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	201603	15.009	233225	15.002	86	50 - 200	0.007	+/-0.50	
Phenanthrene-d10	368890	18.023	433858	18.015	85	50 - 200	0.008	+/-0.50	
Chrysene-d12	298075	23.069	361809	23.061	82	50 - 200	0.008	+/-0.50	
Perylene-d12	333508	25.624	380407	25.616	88	50 - 200	0.008	+/-0.50	
LDW23-SC1123B (22L0459-01)		(Solid)	Lab File ID: NT1023020739S.D				Analyzed: 02/08/23 11:51		
1,4-Dichlorobenzene-d4	110965	8.965	95705	8.972	116	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	424736	11.427	353101	11.427	120	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	204070	15.009	170881	15.017	119	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	369495	18.031	321878	18.031	115	50 - 200	0.000	+/-0.50	
Chrysene-d12	284476	23.092	279976	23.084	102	50 - 200	0.008	+/-0.50	
Perylene-d12	290541	25.662	238134	25.647	122	50 - 200	0.015	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0106
SDG: 22L0459
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GB00019

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (BLA0064-MS2)		(Solid)	Lab File ID: NT1023020740S.D				Analyzed: 02/08/23 12:29		
1,4-Dichlorobenzene-d4	113976	8.972	128794	8.965	88	50 - 200	0.007	+/-0.50	
Naphthalene-d8	432968	11.427	469043	11.419	92	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	207269	15.017	233225	15.002	89	50 - 200	0.015	+/-0.50	
Phenanthrene-d10	379712	18.031	433858	18.015	88	50 - 200	0.016	+/-0.50	
Chrysene-d12	262267	23.107	361809	23.061	72	50 - 200	0.046	+/-0.50	
Perylene-d12	260261	25.678	380407	25.616	68	50 - 200	0.062	+/-0.50	
Matrix Spike Dup (BLA0064-MSD2)		(Solid)	Lab File ID: NT1023020741S.D				Analyzed: 02/08/23 13:08		
1,4-Dichlorobenzene-d4	101164	8.972	128794	8.965	79	50 - 200	0.007	+/-0.50	
Naphthalene-d8	388196	11.427	469043	11.419	83	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	184753	15.017	233225	15.002	79	50 - 200	0.015	+/-0.50	
Phenanthrene-d10	337160	18.038	433858	18.015	78	50 - 200	0.023	+/-0.50	
Chrysene-d12	249066	23.107	361809	23.061	69	50 - 200	0.046	+/-0.50	
Perylene-d12	234870	25.678	380407	25.616	62	50 - 200	0.062	+/-0.50	
LDW23-SC1053C (22L0459-02)		(Solid)	Lab File ID: NT1023020742S.D				Analyzed: 02/08/23 13:46		
1,4-Dichlorobenzene-d4	100891	8.972	95705	8.972	105	50 - 200	0.000	+/-0.50	
Naphthalene-d8	392038	11.427	353101	11.427	111	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	184063	15.009	170881	15.017	108	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	341544	18.031	321878	18.031	106	50 - 200	0.000	+/-0.50	
Chrysene-d12	262324	23.092	279976	23.084	94	50 - 200	0.008	+/-0.50	
Perylene-d12	250582	25.67	238134	25.647	105	50 - 200	0.023	+/-0.50	
LDW23-SC1039C (22L0459-03)		(Solid)	Lab File ID: NT1023020743S.D				Analyzed: 02/08/23 14:25		
1,4-Dichlorobenzene-d4	104328	8.972	95705	8.972	109	50 - 200	0.000	+/-0.50	
Naphthalene-d8	406627	11.427	353101	11.427	115	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	190468	15.017	170881	15.017	111	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	354546	18.038	321878	18.031	110	50 - 200	0.007	+/-0.50	
Chrysene-d12	237446	23.107	279976	23.084	85	50 - 200	0.023	+/-0.50	
Perylene-d12	215820	25.685	238134	25.647	91	50 - 200	0.038	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0106	Instrument:	NT10
		Calibration:	GB00019

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SC1007B (22L0459-04)		(Solid)	Lab File ID: NT1023020744S.D				Analyzed: 02/08/23 15:03		
1,4-Dichlorobenzene-d4	93235	8.972	95705	8.972	97	50 - 200	0.000	+/-0.50	
Naphthalene-d8	366510	11.427	353101	11.427	104	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	172531	15.017	170881	15.017	101	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	323195	18.03	321878	18.031	100	50 - 200	-0.001	+/-0.50	
Chrysene-d12	243552	23.092	279976	23.084	87	50 - 200	0.008	+/-0.50	
Perylene-d12	225418	25.662	238134	25.647	95	50 - 200	0.015	+/-0.50	
LDW23-SC1002C (22L0459-05)		(Solid)	Lab File ID: NT1023020745S.D				Analyzed: 02/08/23 15:41		
1,4-Dichlorobenzene-d4	87773	8.972	95705	8.972	92	50 - 200	0.000	+/-0.50	
Naphthalene-d8	343641	11.427	353101	11.427	97	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	161215	15.017	170881	15.017	94	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	299100	18.038	321878	18.031	93	50 - 200	0.007	+/-0.50	
Chrysene-d12	225102	23.1	279976	23.084	80	50 - 200	0.016	+/-0.50	
Perylene-d12	189075	25.686	238134	25.647	79	50 - 200	0.039	+/-0.50	
LDW23-SC1070B (22L0459-06)		(Solid)	Lab File ID: NT1023020746S.D				Analyzed: 02/08/23 16:20		
1,4-Dichlorobenzene-d4	89484	8.972	95705	8.972	93	50 - 200	0.000	+/-0.50	
Naphthalene-d8	348042	11.427	353101	11.427	99	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	160019	15.017	170881	15.017	94	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	301023	18.038	321878	18.031	94	50 - 200	0.007	+/-0.50	
Chrysene-d12	230142	23.108	279976	23.084	82	50 - 200	0.024	+/-0.50	
Perylene-d12	184992	25.686	238134	25.647	78	50 - 200	0.039	+/-0.50	
LDW23-SC1091B (22L0459-07)		(Solid)	Lab File ID: NT1023020747S.D				Analyzed: 02/08/23 16:58		
1,4-Dichlorobenzene-d4	87825	8.972	95705	8.972	92	50 - 200	0.000	+/-0.50	
Naphthalene-d8	345632	11.434	353101	11.427	98	50 - 200	0.007	+/-0.50	
Acenaphthene-d10	161330	15.017	170881	15.017	94	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	302095	18.038	321878	18.031	94	50 - 200	0.007	+/-0.50	
Chrysene-d12	221246	23.099	279976	23.084	79	50 - 200	0.015	+/-0.50	
Perylene-d12	188691	25.67	238134	25.647	79	50 - 200	0.023	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0106	Instrument:	NT10
		Calibration:	GB00019

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLB0106-ICV3)		(Solid)		Lab File ID: NT1023020750S.D				Analyzed: 02/08/23 18:52	
1,4-Dichlorobenzene-d4	95705	8.972	128794	8.965	74	50 - 200	0.007	+/-0.50	
Naphthalene-d8	353101	11.427	469043	11.419	75	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	170881	15.017	233225	15.002	73	50 - 200	0.015	+/-0.50	
Phenanthrene-d10	321878	18.031	433858	18.015	74	50 - 200	0.016	+/-0.50	
Chrysene-d12	279976	23.084	361809	23.061	77	50 - 200	0.023	+/-0.50	
Perylene-d12	238134	25.647	380407	25.616	63	50 - 200	0.031	+/-0.50	
Calibration Check (SLB0106-CCV1)		(Solid)		Lab File ID: NT1023020760S.D				Analyzed: 02/09/23 01:13	
1,4-Dichlorobenzene-d4	95964	8.972	128794	8.965	75	50 - 200	0.007	+/-0.50	
Naphthalene-d8	350716	11.427	469043	11.419	75	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	174033	15.017	233225	15.002	75	50 - 200	0.015	+/-0.50	
Phenanthrene-d10	317531	18.031	433858	18.015	73	50 - 200	0.016	+/-0.50	
Chrysene-d12	279383	23.084	361809	23.061	77	50 - 200	0.023	+/-0.50	
Perylene-d12	215378	25.655	380407	25.616	57	50 - 200	0.039	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SC1123B 22L0459-01	12/16/22 08:19	12/16/22 15:47	01/05/23 16:13	20	365	02/08/23 11:51	34	40	
LDW23-SC1053C 22L0459-02	12/16/22 09:12	12/16/22 15:47	01/05/23 16:13	20	365	02/08/23 13:46	34	40	
LDW23-SC1039C 22L0459-03	12/16/22 09:50	12/16/22 15:47	01/05/23 16:13	20	365	02/08/23 14:25	34	40	
LDW23-SC1007B 22L0459-04	12/16/22 10:43	12/16/22 15:47	01/05/23 16:13	20	365	02/08/23 15:03	34	40	
LDW23-SC1002C 22L0459-05	12/16/22 11:20	12/16/22 15:47	01/05/23 16:13	20	365	02/08/23 15:41	34	40	
LDW23-SC1070B 22L0459-06	12/16/22 12:01	12/16/22 15:47	01/05/23 16:13	20	365	02/08/23 16:20	34	40	
LDW23-SC1091B 22L0459-07	12/16/22 12:38	12/16/22 15:47	01/05/23 16:13	20	365	02/08/23 16:58	34	40	
Matrix Spike BLA0064-MS2	12/16/22 08:19	12/16/22 15:47	01/05/23 16:13	20	365	02/08/23 12:29	34	40	
Matrix Spike Dup BLA0064-MSD2	12/16/22 08:19	12/16/22 15:47	01/05/23 16:13	20	365	02/08/23 13:08	34	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: NT10

Analyte	MDL	RL	Units
1,4-Dichlorobenzene	0.6	5.0	ug/kg
1,2-Dichlorobenzene	0.7	5.0	ug/kg
Benzyl Alcohol	2.5	20.0	ug/kg
Benzoic acid	13.4	100	ug/kg
2,4-Dimethylphenol	2.2	20.0	ug/kg
1,2,4-Trichlorobenzene	2.7	5.0	ug/kg
N-Nitrosodiphenylamine	1.3	5.0	ug/kg
Pentachlorophenol	2.1	20.0	ug/kg

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: NA

Chemical: Tributyl Phosphate

Manufacturer: Chemservice

Product #: O-916

Lot #: 59-57A

Purity: 99%

Analyst: VB

Element: B000954

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001873

Printed: 9/23/2013 11:47:03AM

Description:	SVOC 4,4 DDT	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	23-Sep-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 11:46 by JZ
Vendor:	Chem Service	Lot #:	198-128A
Vendor Catalog #:			

Comments

Neat, Purity @ 99.2%. (ARI#: 790A)

Analyte	CAS Number	Concentration	Units
4,4'-DDT	50-29-3	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,4' DDT

Manufacturer: Chem Service

Product #: _____

Lot #: 198-128A

Purity: 99.2%

Analyst: AB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001875

Printed: 9/23/2013 12:13:55PM

Description:	SVOC alpha-Terpineol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 12:13 by JZ
Vendor:	ACROS Organics	Lot #:	AD16481201
Vendor Catalog #:			

Comments

Neat, Purity @ 98%. (ARI#: I1582A)

Analyte	CAS Number	Concentration	Units
alpha-Terpineol	98-55-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: alpha-Terpineol

Manufacturer: Acros Organics

Product #: _____

Lot #: A0648170 1

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001885

Printed: 9/23/2013 3:45:57PM

Description:	SVOA Dibutyl Phenyl phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:45 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98.9%.

Analyte	CAS Number	Concentration	Units
Dibutyl Phenyl Phosphate	2528-36-1	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Dibutyl Phenyl Phosphate

Manufacturer: Monsanto

Product #: N/A

Lot #: N/A

Purity: 98.9%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001886

Printed: 9/23/2013 3:59:35PM

Description:	SVOC Triphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:59 by JZ
Vendor:	Aldrich	Lot #:	04902CM
Vendor Catalog #:			

Comments

Neat, Purity @ 99%.

Analyte	CAS Number	Concentration	Units
Triphenyl Phosphate	115-86-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Triphenyl Phosphate

Manufacturer: Aldrich

Product #: _____

Lot #: 04907CM

Purity: 99%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001887

Printed: 9/23/2013 4:18:55PM

Description:	SVOC Butylated Hydroxytoluene	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 16:18 by JZ
Vendor:	SIGMA	Lot #:	39F-0197
Vendor Catalog #:			

Comments

neat,Purity @ 99.9%.

Analyte	CAS Number	Concentration	Units
Butylated Hydroxytoluene	128-37-0	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butylated Hydroxytoluene

Manufacturer: Sigma

Product #: _____

Lot #: 39F-0197

Purity: 99.8%

Analyst: AR

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001890

Printed: 9/23/2013 5:02:53PM

Description:	SVOC Butyl Diphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 17:02 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Butyl Diphenyl Phosphate	2752-95-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butyl Diphenyl Phosphate

Manufacturer: Monsanto

Product #: NA

Lot #: NA

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001941

Printed: 9/25/2013 1:45:31PM

Description:	SVOC 2,4-Dinitrophenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 13:45 by JZ
Vendor:	SIGMA	Lot #:	65H5021
Vendor Catalog #:			

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

Analyte	CAS Number	Concentration	Units
2,4-Dinitrophenol	51-28-5	1000000	ug/mL

B001941
SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: bFH 502 1

Purity: 90 ~ 94%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001945

Printed: 9/25/2013 3:23:22PM

Description:	SVOC Benzoic Acid	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:23 by JZ
Vendor:	ACROS Organics	Lot #:	A0224339
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Benzoic acid	65-85-0	1000000	ug/mL

B001945
SVOC Benzoic Acid
Expires 12/31/2029
Prepared By Jianqing Zhou 12/31/2012

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0224339

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001948

Printed: 9/25/2013 3:37:51PM

Description:	SVOC 4,6-Dinitro-2-Methylphenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:37 by JZ
Vendor:	Chem Service	Lot #:	179-31A
Vendor Catalog #:			

Comments

Neat, Purity @ 99%. (ARI#: 009A)

Analyte	CAS Number	Concentration	Units
4,6-Dinitro-2-methylphenol	534-52-1	1000000	ug/mL

B001948
SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: KB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002054

Printed: 10/4/2013 6:32:21PM

Description:	SVOA 1-Methylnaphthalene	Expires:	02-Apr-14
Standard Type:	Analyte Spike	Prepared:	13-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	04-Oct-13 18:32 by JZ
Vendor:	Chem Service	Lot #:	62-5B
Vendor Catalog #:			

Comments

Neat, Purity @ 99%

Analyte	CAS Number	Concentration	Units
1-Methylnaphthalene	90-12-0	1000000	ug/mL

B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 67-53

Purity: 99%

Analyst: AZ

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002135

Printed: 10/15/2013 12:07:39PM

Description:	SVOA Benzidine	Expires:	31-Dec-29
Standard Type:	Analyte Spike	Prepared:	15-Oct-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	15-Oct-13 12:07 by JZ
Vendor:	SIGMA	Lot #:	18C0024
Vendor Catalog #:			

Comments

Purity @ 95%. ARI#: 0467.

Analyte	CAS Number	Concentration	Units
Benzidine	92-87-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzidine

Manufacturer: Sigma

Product #: B-3503

Lot #: 18C0024

Purity: 98%

Analyst: [signature]

Certificate of Analysis

Product Name:	1,2,4,5-Tetrachlorobenzene
Product Description:	98%
Product Brand:	Sigma-Aldrich
Product Number:	131857
Molecular Weight:	215.89
CAS Number:	95-94-3

TEST	SPECIFICATION	LOT 19309JR RESULTS
APPEARANCE	WHITE POWDER, CHIPS OR CRYSTALS	WHITE CHIPS
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE AND STANDARD AS
** **		ILLUSTRATED ON PAGE 1011C OF EDITION I,
** **		VOLUME 1 OF "THE ALDRICH LIBRARY OF FT-IR
** **		SPECTRA".
GAS LIQUID	97.5% (MINIMUM)	99.9 %
QUALITY CONTROL		JULY 1997

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

F009172
SVOC 1,2,4,5-Tetrachlorobenzene
Expires 12/31/2079
Prepared By Joshua Rains 10/6/2017

Supelco®

www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAC9813
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9813.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005199
SVOA-ABN BASE STOCK-200-800ug/ml
Expires 5/31/2023
Prepared By Jianqing Zhou 5/18/2021

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
3,3'-DICHLOROBENZIDINE CAS# 91-94-1	802	µg/mL	99.9	LC27068
2,4-DINITROTOLUENE CAS# 121-14-2	802	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	801	µg/mL	99.9	LB79891
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	802	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	801	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	201	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	803	µg/mL	100.0	10126MG
4-CHLOROANILINE CAS# 106-47-8	803	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	802	µg/mL	99.9	LC05068
3-NITROANILINE CAS# 99-09-2	802	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	802	µg/mL	99.9	LC11400
PYRIDINE (LOW WATER) CAS# 110-86-1	802	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date: 12-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9813.01	12-May-2021	Original Release Date

.

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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Certificate of Composition - Analytical Standard

ACID STOC"

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005200
SVOA-ABN ACID STOCK-200-800ug/ml
Solvent / Lot: DCM
Prep: 5/18/2021 by JZ
Exp: 5/31/2023
Location:

JZ 5/18/21

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	802	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	802	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	802	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1806	µg/mL	75.9	MKBP5833V
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	803	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	801	µg/mL	99.9	JS00013
4-NITROPHENOL CAS# 100-02-7	801	µg/mL	99.9	LC10889
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1804	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	803	µg/mL	98.7	MKCK8156
BENZOIC ACID CAS# 65-85-0	1805	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0167617

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2024 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

J005610
CLP 04.1 BNA SURR MIX
Expires 9/30/2024
Prepared By Jianqing Zhou 5/26/2021

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBF3761V) **Purity** 99%	1,506.0 µg/mL	+/- 8.9452 µg/mL +/- 43.9882 µg/mL +/- 53.3632 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31658) **Purity** 99%	1,512.0 µg/mL	+/- 8.9808 µg/mL +/- 44.1635 µg/mL +/- 53.5758 µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot M-2097) **Purity** 99%	1,006.0 µg/mL	+/- 5.9753 µg/mL +/- 29.3839 µg/mL +/- 35.6463 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940B) **Purity** 99%	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 29.2671 µg/mL +/- 35.5046 µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00019169) **Purity** 99%	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 29.2671 µg/mL +/- 35.5046 µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot S55013V) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed

8	p-Terphenyl-d14		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)			+/-	29.2671	µg/mL	Unstressed
	Purity 99%				+/-	35.5046	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

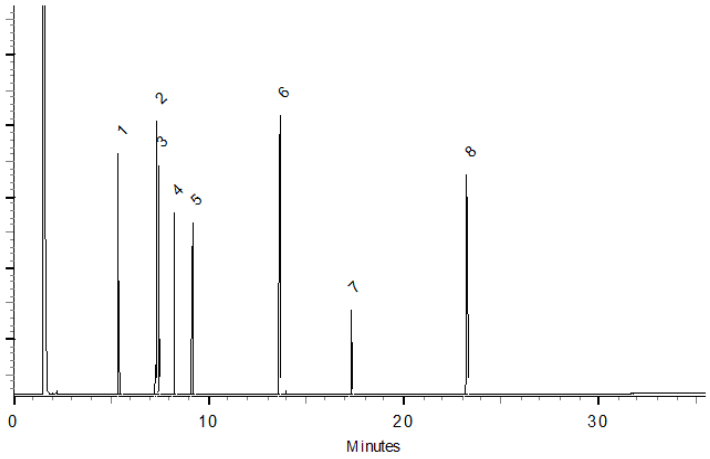
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2020 **Balance:** B345965662

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Dec-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Agilent

Certificate of Analysis

J008074

SVOA PAH STD 2000ug/ml
Expires 6/30/2023
Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Number: 0006540449

Lot Issue Date: 11-Jun-2020

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acenaphthene	000083-32-9	RM10879	2008 ± 10 µg/mL
acenaphthylene	000208-96-8	RM10891	2003 ± 10 µg/mL
anthracene	000120-12-7	RM14212	2006 ± 10 µg/mL
benz[a]anthracene	000056-55-3	RM16072	2006 ± 10 µg/mL
benzo[b]fluoranthene	000205-99-2	RM14571	2005 ± 10 µg/mL
benzo[k]fluoranthene	000207-08-9	RM14321	2009 ± 10 µg/mL
benzo[ghi]perylene	000191-24-2	RM15761	2008 ± 10 µg/mL
benzo[a]pyrene	000050-32-8	RM12669	2009 ± 10 µg/mL
chrysene	000218-01-9	RM12260	2009 ± 10 µg/mL
dibenz[a,h]anthracene	000053-70-3	RM06786	2009 ± 10 µg/mL
fluoranthene	000206-44-0	RM12277	2004 ± 10 µg/mL
fluorene	000086-73-7	RM09441	2009 ± 10 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	RM14192	2009 ± 10 µg/mL
naphthalene	000091-20-3	NT00970	2008 ± 10 µg/mL
phenanthrene	000085-01-8	RM10495	2009 ± 10 µg/mL
pyrene	000129-00-0	RM03479	2008 ± 10 µg/mL

Matrix: methylene chloride/benzene (1:1)

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

Certificate of Analysis

Product Number: US-106N-1 **Lot Number:** 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 2 of 2

www.agilent.com/quality/

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16062
Certification Date: November 19, 2020
Expiration Date: November 30, 2030

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 2.740%
3,3'-Dichlorobenzidine	91-94-1	2000	± 3.229%

J008310
Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101443
Description: Aniline
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16571
Certification Date: March 23, 2021
Expiration Date: March 31, 2029

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 0.561%

J10387
R 09/28/21

Certificate of Analysis

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

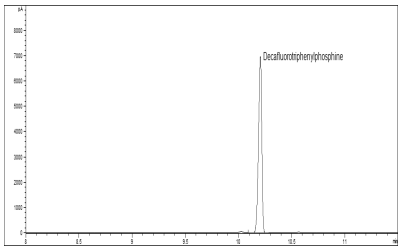
References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis - Certified Reference Material

Decafluorotriphenylphosphine solution

Product no.: 48724-U
Lot no.: LRAD0628
Expiry Date: October 2024
Manufacturing Date: September 2021
Storage: ROOM TEMPERATURE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0628.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

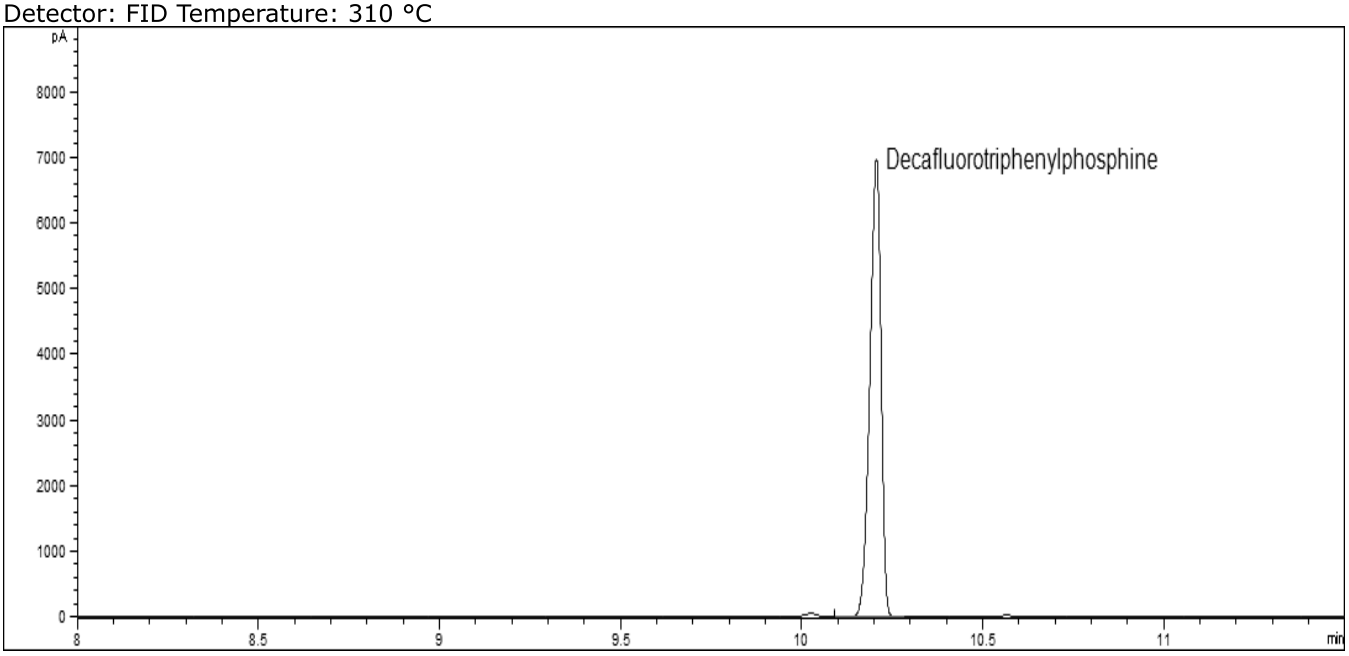


Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
DFTPP CAS# 5074-71-5	25.2 ± 2.6	mg/mL	97.0	10220909

ASSAY Method

METHOD: GC (BELLEFONTE)
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.3 mL/min
Inlet Temperature: 250 °C Injection Volume: 1 µL
Injection Mode: 25:1
Temperature Program: 120 °C (Hold 0 min) @ 12 °C/min to 260 °C (Hold 0 min)
Detector: FID Temperature: 310 °C



Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Elution details:

EO	RT(MIN)	ANALYTE
1	10.206	Decafluorotriphenylphosphine

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Minimum sample size: 1 µL

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 30-Sep-2021

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0628.01	30-Sep-2021	Original Release Date

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Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K001616
Benzidines std @2000ug/ml
Solvent / Lot: CL17662
Prep: 2/16/2022 by VS
Exp: 11/30/2031
Location: GC

A2LA ACCREDITED
Reference Material Producer
Certicate No. 2427.02

phenova Certified Reference Materials | A Phenomenex Company

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

A2LA ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64591018_us

Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246
Description: Benzoic Acid
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16692
Certification Date: April 23, 2021
Expiration Date: April 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 3.403%

K 2725

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-103N-1 **Lot Issue Date:** 25-May-2021

Lot Number: 0006609664 **Expiration Date:** 30-Jun-2024

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
benzoic acid	000065-85-0	RM01884	2005 ± 10 µg/mL
o-cresol	000095-48-7	RM12877	2005 ± 10 µg/mL
p-cresol	000106-44-5	RM01988	2005 ± 10 µg/mL
2,4,5-trichlorophenol	000095-95-4	NT00344	2004 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

5/11/22

K004539
toxic sub mix#1
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 6/30/2024
Location:

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: Phenols Standard
Product Number: US-107N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006648297
Lot Issue Date: 17-Nov-2021
Expiration Date: 31-Dec-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
4-chloro-3-methylphenol	2006 ±	10 µg/mL	000059-50-7	RM01885
2-chlorophenol	2007 ±	10 µg/mL	000095-57-8	RM01871
2,4-dichlorophenol	2005 ±	10 µg/mL	000120-83-2	RM13878
2,4-dimethylphenol	2006 ±	10 µg/mL	000105-67-9	RM13009
2,4-dinitrophenol	2006 ±	10 µg/mL	000051-28-5	RM02112
2-methyl-4,6-dinitrophenol	2005 ±	10 µg/mL	000534-52-1	RM02292
2-nitrophenol	2007 ±	10 µg/mL	000088-75-5	RM13445
4-nitrophenol	2006 ±	10 µg/mL	000100-02-7	RM03752
pentachlorophenol	2006 ±	10 µg/mL	000087-86-5	RM02474
phenol	2006 ±	10 µg/mL	000108-95-2	RM11471
2,4,6-trichlorophenol	2006 ±	10 µg/mL	000088-06-2	RM18096

Matrix: methylene chloride (dichloromethane)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

5/11/22

CSD-QA-015.1

K004540
phenols mix
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 12/31/2024
Location:

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: PAH Standard
Product Number: US-106N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006627349
Lot Issue Date: 17-Sep-2021
Expiration Date: 31-Oct-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
acenaphthene	2007 ±	10 µg/mL	000083-32-9	RM10879
acenaphthylene	2004 ±	10 µg/mL	000208-96-8	RM10891
anthracene	2006 ±	10 µg/mL	000120-12-7	RM14212
benz[a]anthracene	2006 ±	10 µg/mL	000056-55-3	RM16072
benzo[b]fluoranthene	2006 ±	10 µg/mL	000205-99-2	RM14571
benzo[k]fluoranthene	2006 ±	10 µg/mL	000207-08-9	RM18376
benzo[ghi]perylene	2006 ±	10 µg/mL	000191-24-2	RM15761
benzo[a]pyrene	2006 ±	10 µg/mL	000050-32-8	RM17573
chrysene	2007 ±	10 µg/mL	000218-01-9	RM13771
dibenz[a,h]anthracene	2006 ±	10 µg/mL	000053-70-3	RM06786
fluoranthene	2006 ±	10 µg/mL	000206-44-0	RM12277
fluorene	2006 ±	10 µg/mL	000086-73-7	RM09441
indeno[1,2,3-cd]pyrene	2006 ±	10 µg/mL	000193-39-5	RM14192
naphthalene	2007 ±	10 µg/mL	000091-20-3	RM10445
phenanthrene	2005 ±	10 µg/mL	000085-01-8	RM10495
pyrene	2005 ±	10 µg/mL	000129-00-0	RM16126

Matrix: methylene chloride/benzene (1:1)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

K004541
SVOA PAH STD 2000ug/ml
Solvent / Lot: DCM/BENZENE
Prep: 5/11/2022 by JZ
Exp: 10/31/2024
Location: Fridge 19

CSD-QA-015.1

11/22

Reference Materials Producer
Cert #2495.01

Certificate of Analysis

Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics**® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

Certificate of Reference Material

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021 Certifying Officer: Shannon Mora

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory , please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i, where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Accredited to 17025 & Guide 34 ISO Certified to 9001

ACCREDITED
Reference Materials Producer
Cert #2495.01

ECS

Certificate of Analysis

ilac-MRA ACCREDITED
Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

K004542

Certificate of Reference Material

Catalog Number: ECS-A-030

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Lot No. AA210126005

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021

Certifying Officer: Shannon Nave

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Agilent

Certificate of Analysis

Product Name: 1-Methylnaphthalene Standard

Product Number: EPA-1225-1 **Lot Issue Date:** 19-Jul-2021

Lot Number: 0006624769 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-methylnaphthalene	000090-12-0	RM07712	999.3 ± 5.0 µg/mL

Matrix: methanol (methyl alcohol)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

K004543
1-Methylnaphthalene
Solvent / Lot: MEOH
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

5/11/22

Sample lot approver:
Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert
No. AT-1937

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1 **Lot Issue Date:** 02-Jul-2021

Lot Number: 0006620643 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
aniline	000062-53-3	RM12853	2005 ± 10 µg/mL
benzyl alcohol	000100-51-6	RM10547	2004 ± 10 µg/mL
4-chloroaniline	000106-47-8	RM01886	2002 ± 10 µg/mL
dibenzofuran	000132-64-9	RM02077	2002 ± 10 µg/mL
2-methylnaphthalene	000091-57-6	RM01258	2006 ± 10 µg/mL
2-nitroaniline	000088-74-4	RM02402	2003 ± 10 µg/mL
3-nitroaniline	000099-09-2	RM02424	2003 ± 10 µg/mL
4-nitroaniline	000100-01-6	RM02425	2003 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544
toxic sub mix#2
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

05/11/22

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0181243

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Elution Order	Compound	Gr (weig					
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ2508) **Purity** 99%	1,50				µg/mL	Stressed
				+/-	53.3632	µg/mL	Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31262) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,510.0	µg/mL	+/-	8.9689	µg/mL	Gravimetric
				+/-	44.1050	µg/mL	Unstressed
				+/-	53.5049	µg/mL	Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32542/022621DB1 **Purity** 99%	1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
				+/-	29.3255	µg/mL	Unstressed
				+/-	35.5754	µg/mL	Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
				+/-	29.4423	µg/mL	Unstressed
				+/-	35.7172	µg/mL	Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 19169) **Purity** 99%	1,006.0	µg/mL	+/-	5.9753	µg/mL	Gravimetric
				+/-	29.3839	µg/mL	Unstressed
				+/-	35.6463	µg/mL	Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.:	AL0-101246	**Lot Number:**	CL17953
Description:	Benzoic Acid	**Certification Date:**	January 31, 2022
Storage:	4 °C	**Expiration Date:**	January 31, 2032
Provided As:	1 mL in 2 mL Ampoule in Methylene Chloride		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 2.714%

K004603
Benzoic Acid @2000ug/ml
Solvent / Lot: N/A
Prep: 5/13/2022 by JZ
Exp: 1/31/2032
Location: GC

5/13/22

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

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6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K004604
Benzidines std @2000ug/ml
Solvent / Lot: MeCl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

5/13/22

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64591018_us

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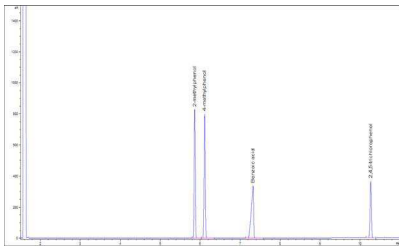
Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

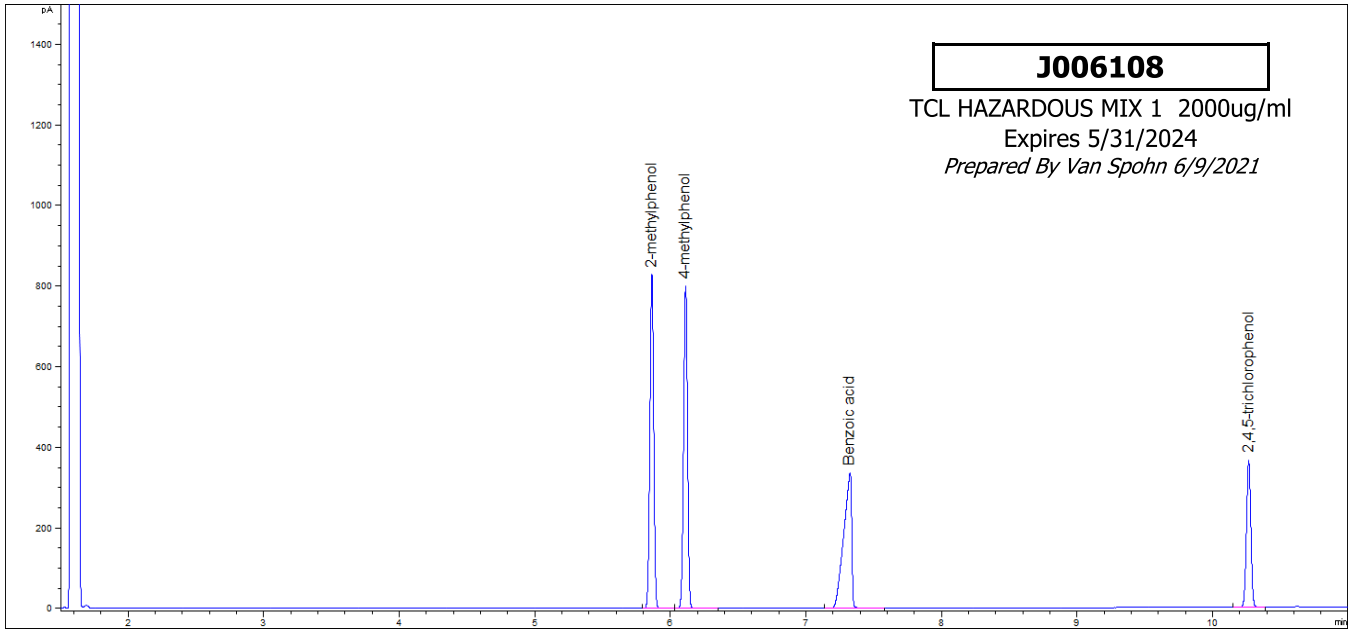
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*
2-METHYLPHENOL CAS# 95-48-7	2004 ± 9	µg/mL	99.0	1	G1735A
4-METHYLPHENOL CAS# 106-44-5	2004 ± 13	µg/mL	98.9	2	06921MG
BENZOIC ACID CAS# 65-85-0	2012 ± 6	µg/mL	99.9	3	LC16514
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	2003 ± 6	µg/mL	99.9	4	JS00008

Informational Values:



Additional Information:
Analytical Method Parameters:
Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 170 °C, Injection Volume: 1 µL
Injection Mode: Split, Split Ratio: 20:1

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9610.01	20-May-2021	Original Release Date

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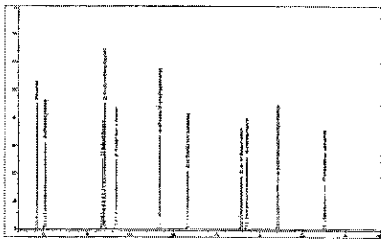
Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



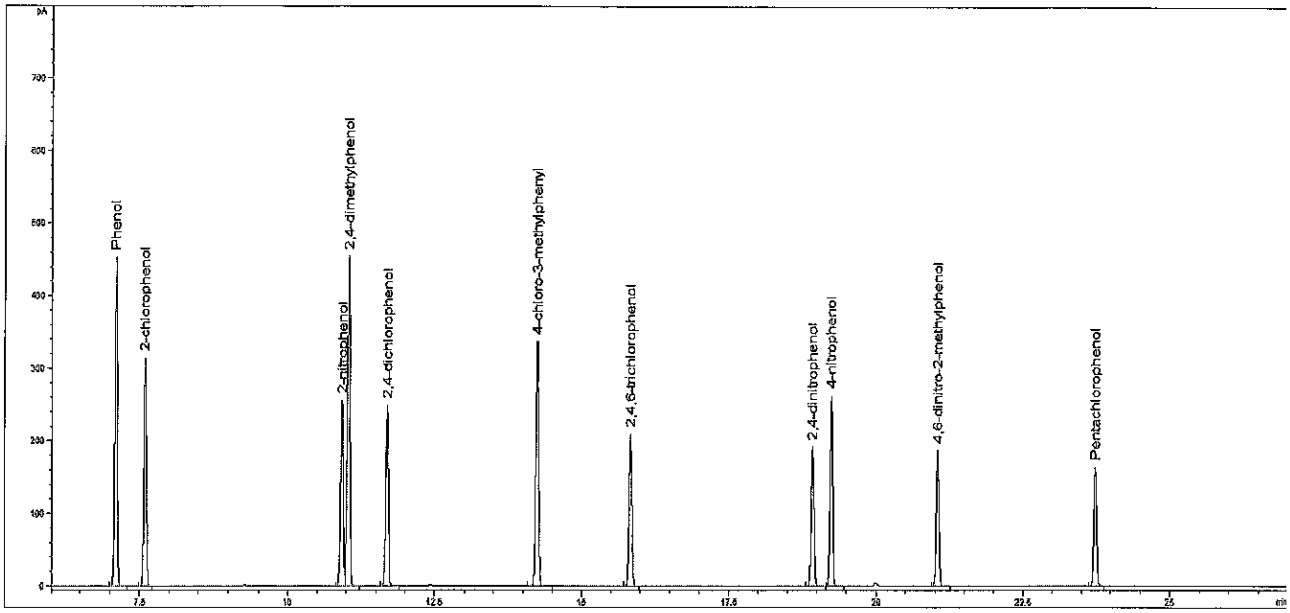
Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2-CHLOROPHENOL CAS# 95-57-8	2001 ± 25	µg/mL	99.9	STBG3033V
2-NITROPHENOL CAS# 88-75-5	1999 ± 18	µg/mL	99.3	15905BB
2,4-DIMETHYLPHENOL CAS# 105-67-9	2000 ± 14	µg/mL	99.2	05421CO
2,4-DICHLOROPHENOL CAS# 120-83-2	2000 ± 17	µg/mL	99.5	03221TN
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	2000 ± 5	µg/mL	99.9	JS00013
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	2002 ± 5	µg/mL	99.5	04212PS
2,4-DINITROPHENOL CAS# 51-28-5	2000 ± 28	µg/mL	66.9	STBJ5751
4-NITROPHENOL CAS# 100-02-7	2000 ± 33	µg/mL	99.0	04628LT
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	2000 ± 27	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	1999 ± 25	µg/mL	97.9	MKCD2150

ASSAY Method

J013597
TCL Phenols Mix 2000ug/ml
Solvent / Lot: LRAD0139
Prep: 12/30/2021 by VS
Exp: 7/31/2024
Location:

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.



METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.5 mL/min
Inlet Temperature: 200 °C Injection Volume: 1.0 µL
Injection Mode: 25:1
Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)
Detector: FID Temperature: 310 °C

Elution details:

EO	RT(MIN)	ANALYTE
1	7.095	Phenol
2	7.585	2-chlorophenol
3	10.925	2-nitrophenol
4	11.037	2,4-dimethylphenol
5	11.696	2,4-dichlorphenol
6	14.242	4-chloro-3-m3thylphenol
7	15.842	2,4,6-trichlorophenol
8	18.93	2,4-dinitrophenol
9	19.25	4-nitrophenol
10	21.05	4,6-dinitro-2-methylphenol
11	23.752	Pentachlorophenol

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0139.01	12-Jul-2021	Original Release Date

.

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18355
Certification Date: July 25, 2022
Expiration Date: August 31, 2023

Aaron Dukes, Certified Reference Materials Manager

K007995
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: N/A
Prep: 8/29/2022 by JZ
Exp: 8/31/2023
Location: FREEZER 44

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 6.858%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.270%
Benzo(b)fluoranthene	205-99-2	1000	± 0.635%
Benzo(k)fluoranthene	207-08-9	1000	± 0.682%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.272%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.479%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.479%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.550%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.146%

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 1.058%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.518%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.518%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.518%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 1.128%

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.746%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.153%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.883%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.399%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

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This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.202%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1123B

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-01 A	File ID:	23012016.D
Sampled:	12/16/22 08:19	Prepared:	01/05/23 15:38	Analyzed:	01/20/23 21:26
% Solids:	56.64	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.12 g Wet / 2.5 mL
Batch:	BLA0068	Sequence:	SLA0279	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9816*	*7.91*	*99.1*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9816*	*8.23*	*103*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9816*	*5.23*	*65.5*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9816*	*5.54*	*69.4*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012016.D
Data file 2: /20230120.b/B20230120.b/23012016.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 22L0459-01
Client ID:
Injection Date: 20-JAN-2023 21:26
Report Date: 01/25/2023 06:58
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.311	-0.003	147372	4.852	0.018	77006	8.14	3.18	87.6*	alpha-BHC MN
----			5.338	0.029	40704	0.00	4.43	---	beta-BHC
4.892	0.013	255115	----			17.25	0.00	---	delta-BHC
4.620	0.005	139563	5.221	-0.009	80570	8.89	3.92	77.5*	gamma-BHC (Lindane) MN
5.088	-0.009	62654	5.770	0.014	130041	4.49	6.99	43.6*	Heptachlor MN
5.442	0.024	235861	----			15.07	0.00	---	Aldrin
6.083	-0.009	135128	6.797	-0.018	671895	9.96	38.27	117.4*	Heptachlor epoxide b M
----			7.250	-0.009	39637	0.00	2.56	---	Endosulfan I
6.783	-0.012	349459	7.537	-0.015	246511	26.13	14.42	57.8*	Dieldrin
6.458	0.003	482165	7.343	0.001	566346	38.83	36.12	7.2	4,4'-DDE
----			----			0.00	0.00	---	Endrin
7.262	-0.020	35784	8.077	-0.011	713137	4.57	63.43	173.1*	Endosulfan II
7.077	-0.026	880414	7.950	0.001	354675	112.28	33.24	108.6*	4,4'-DDD
8.130	-0.016	31518	----			4.24	0.00	---	Endosulfan sulfate
7.373	-0.022	714246	8.278	0.011	1180368	90.14	114.62	23.9	4,4'-DDT
----			8.882	-0.027	610824	0.00	134.04	---	Methoxychlor
8.395	-0.024	118462	9.230	0.019	696054	13.90	65.27	129.8*	Endrin ketone
7.740	0.029	180529	8.416	-0.003	174097	28.89	21.95	27.3	Endrin aldehyde
----			6.996	-0.030	521102	0.00	29.76	---	trans-Chlordane
6.406	0.025	211849	7.187	0.000	67791	15.33	3.96	117.9*	cis-Chlordane
2.291	-0.017	22865	2.458	-0.028	123852	1.21	5.39	126.9*	Hexachlorobutadiene
----			----			0.00	0.00	---	Hexachlorobenzene
3.806	0.003	334941	4.199	0.002	471337	26.20	27.74	5.7	Tetrachloro-m-xylene MN
9.332	0.008	266569	10.434	0.004	351849	39.63	41.27	4.0	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

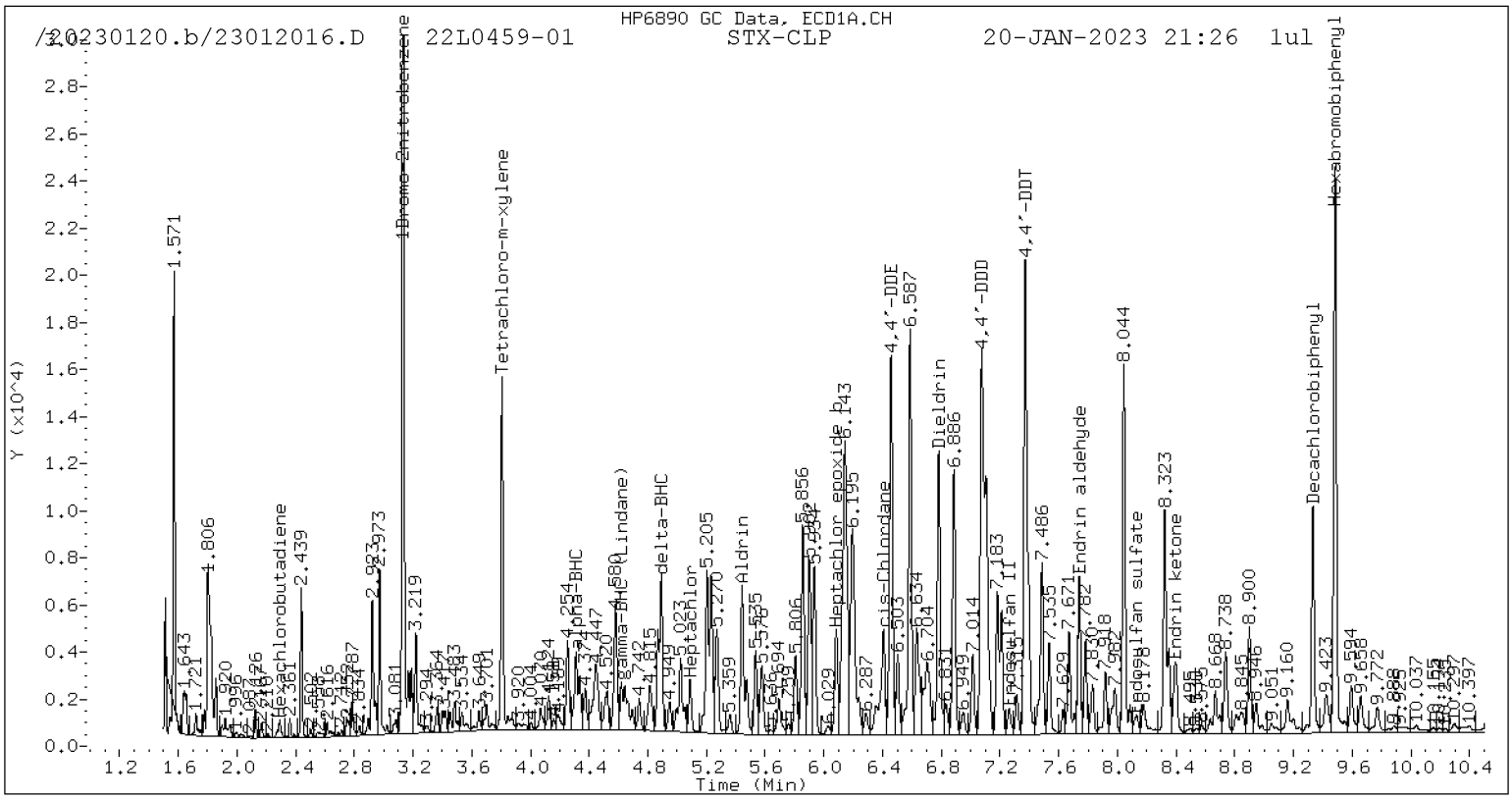
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	940019	39.8
Hexabromobiphenyl	609723	663867	8.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1207010	19.9
Hexabromobiphenyl	769764	771442	0.2

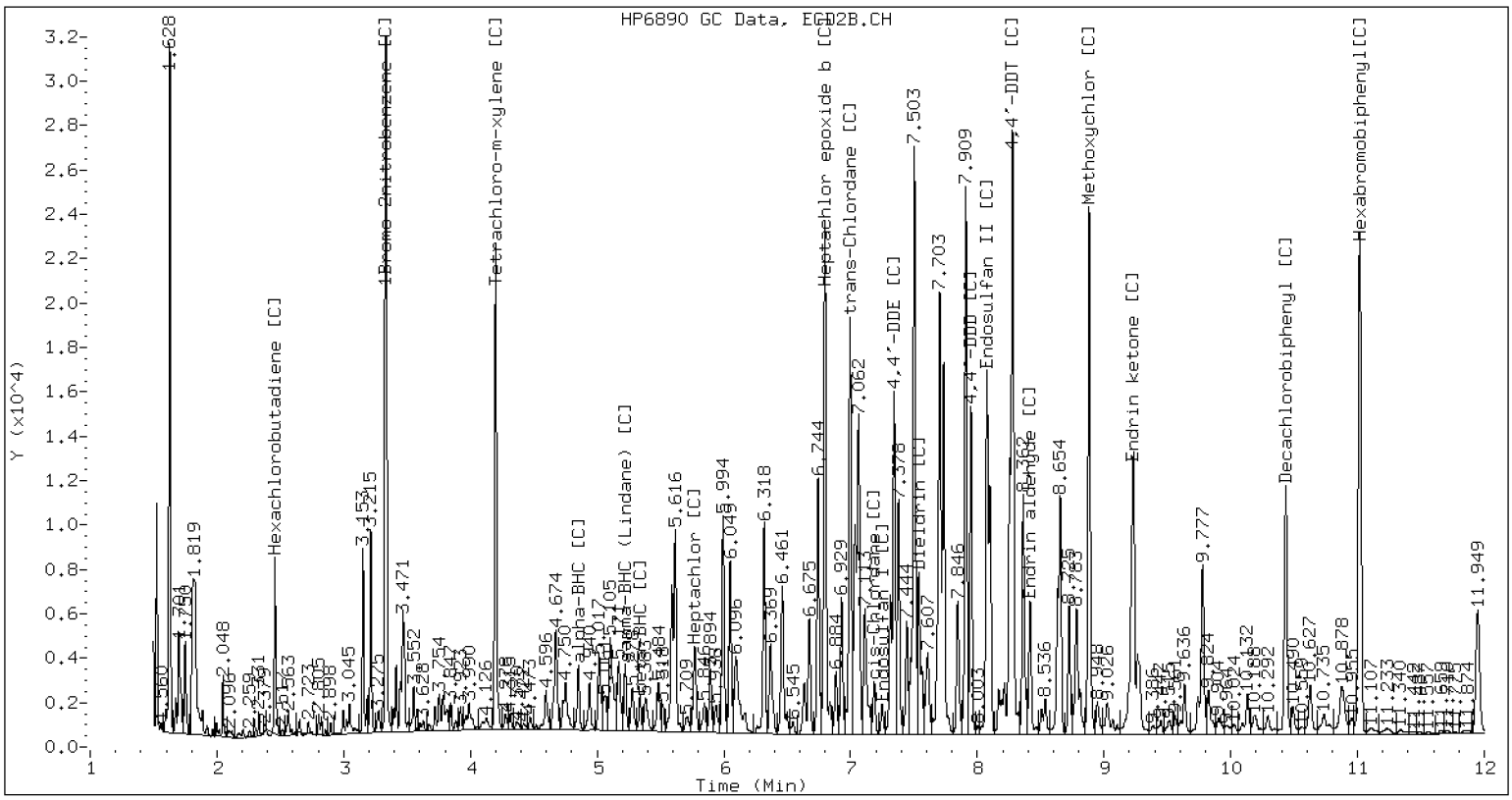
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

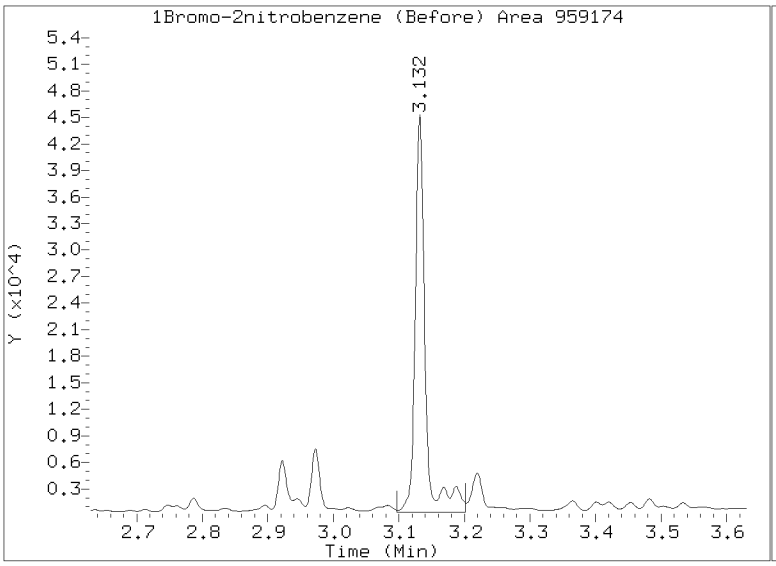
/20230120.b/B20230120.b/23012016.D 22L0459-01 CLP2

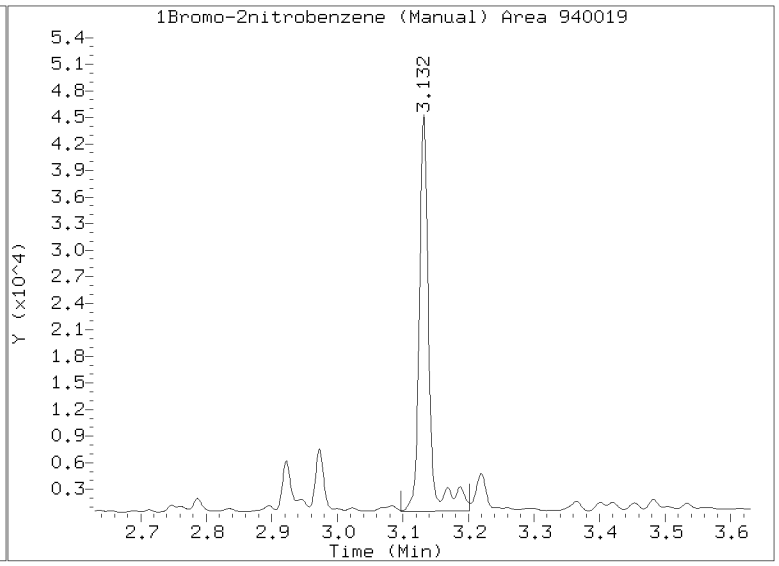


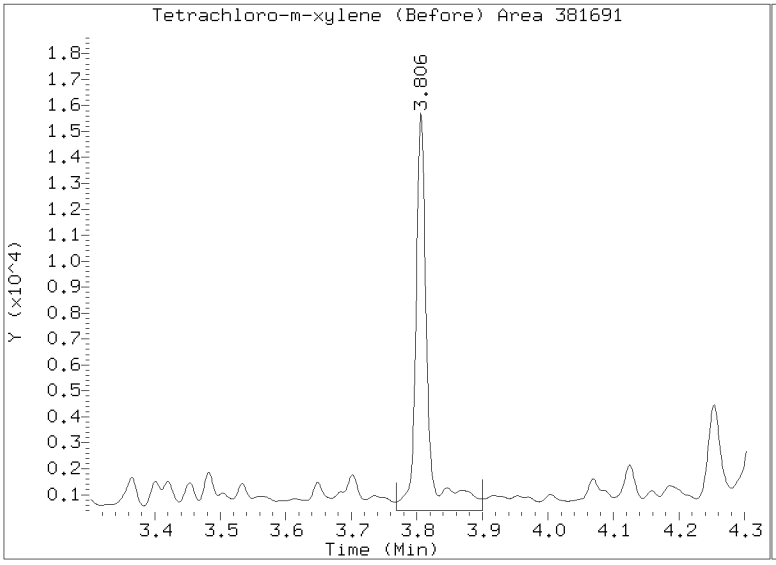
CLP-2 Manual Integration: YES

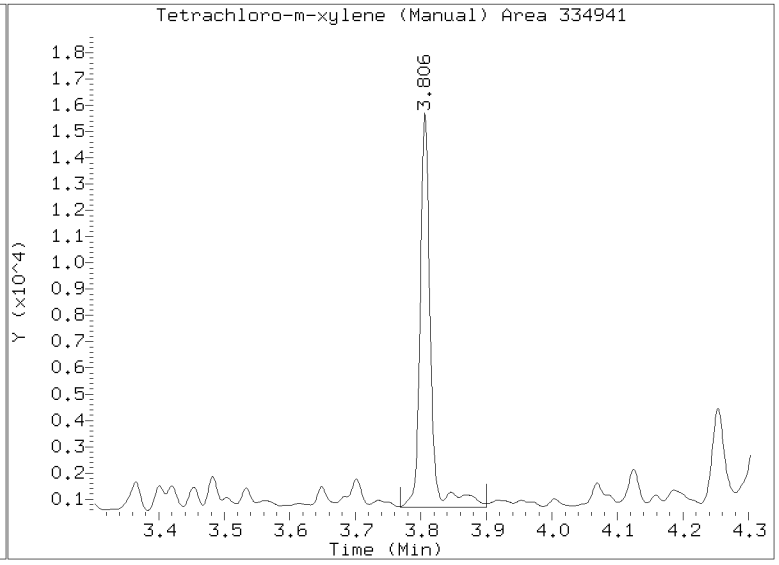
Manual Peak Adjustment Report, STX-CLP

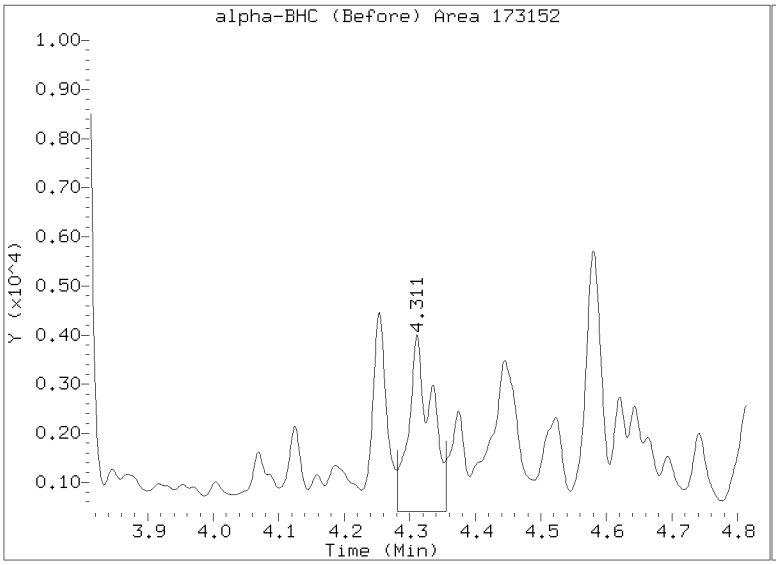
Datafile: /20230120.b/23012016.D
Injection Date: 20-JAN-2023 21:26
Lab ID:22L0459-01 Client ID:
Report Date: 01/25/2023 06:58

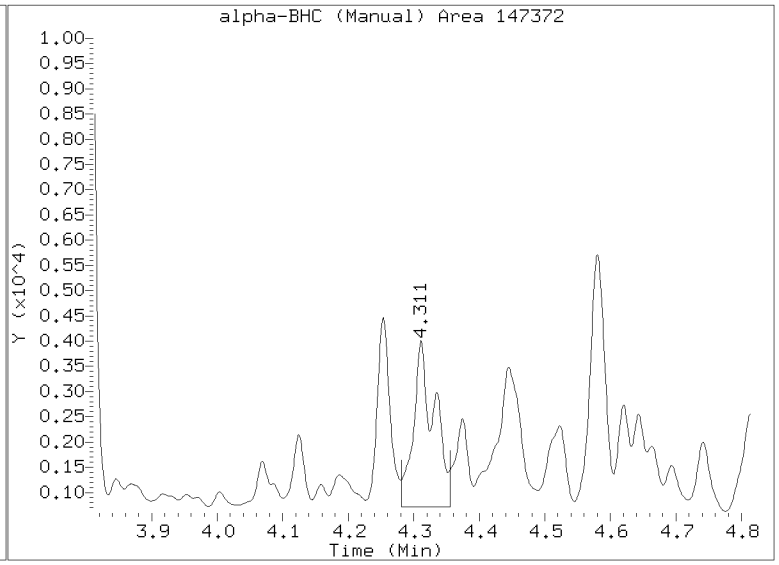






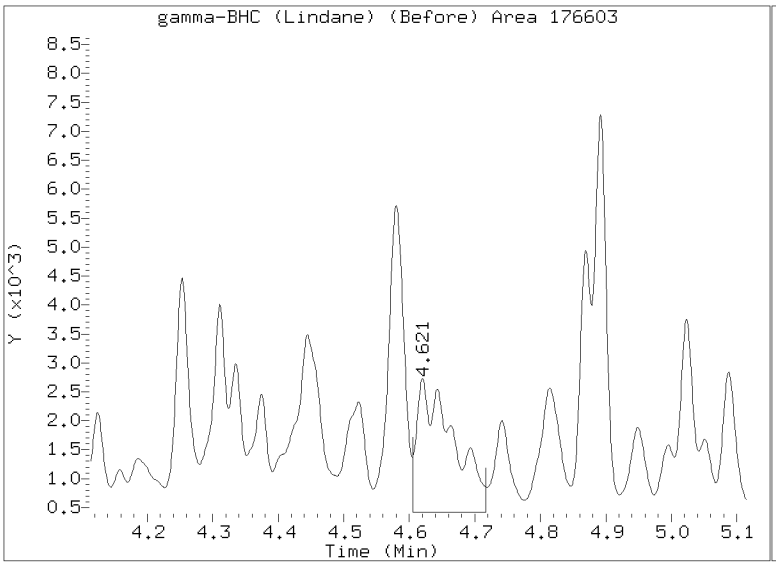


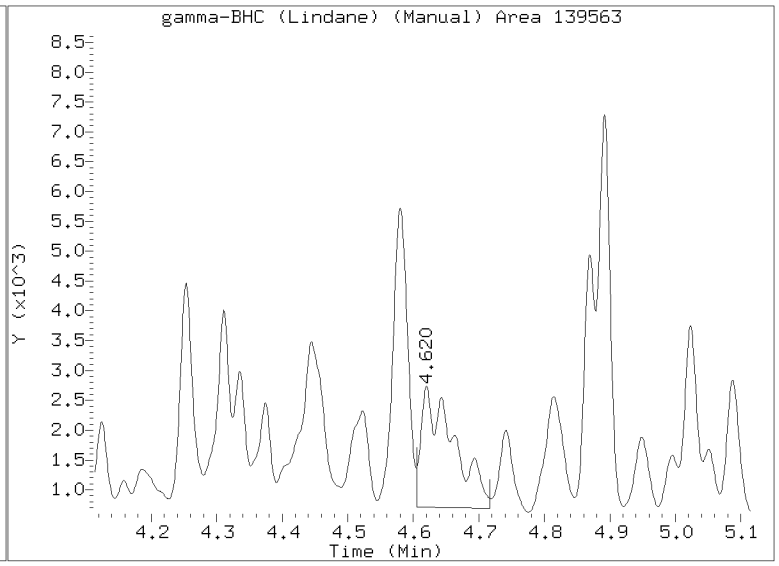


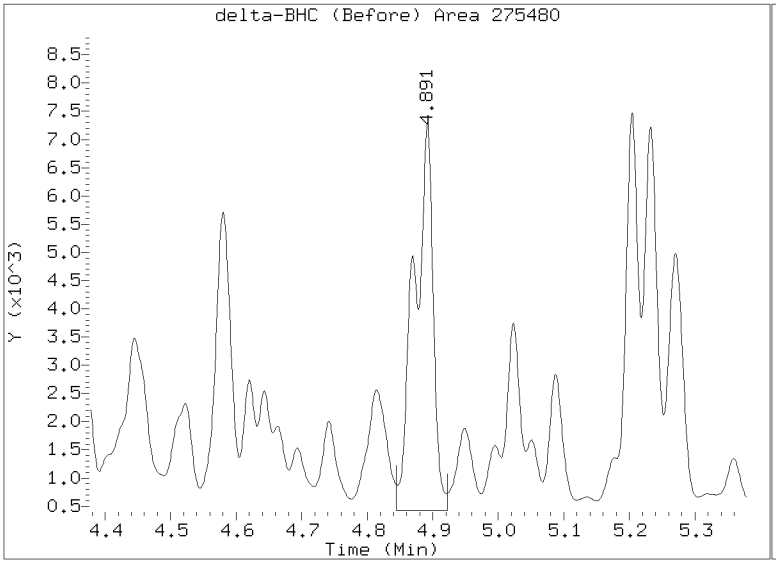


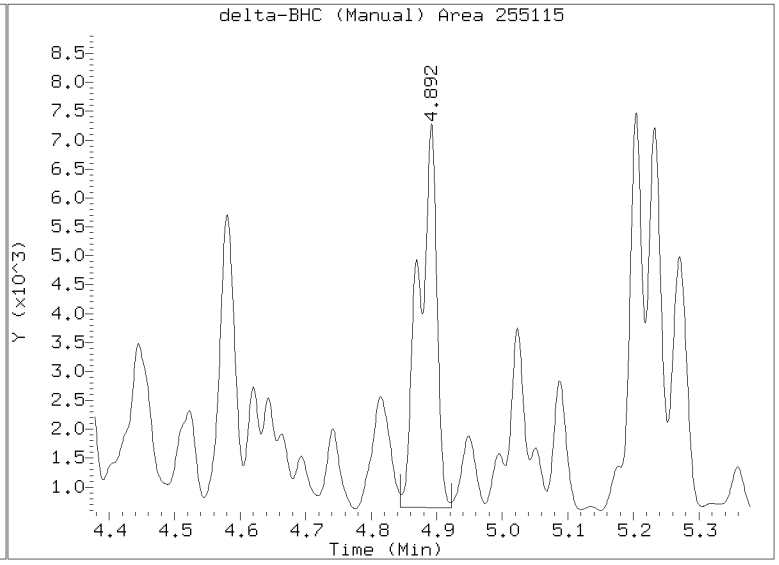
Manual Peak Adjustment Report, STX-CLP

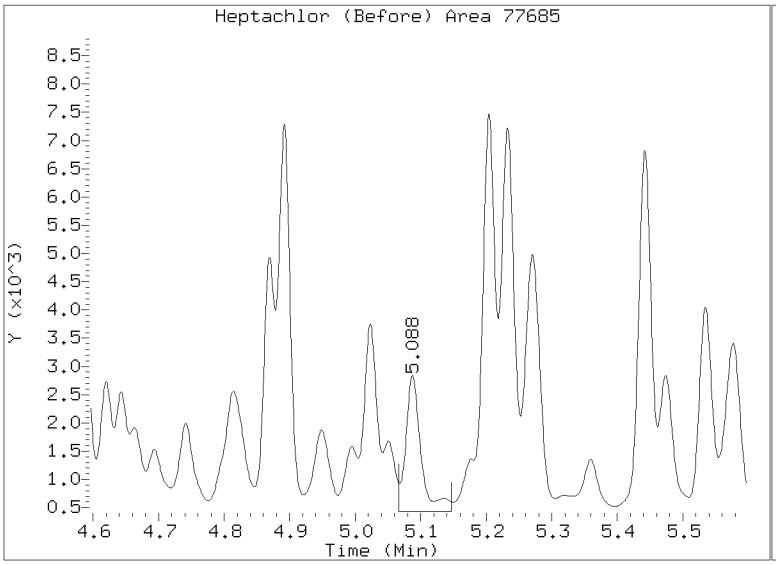
Datafile: /20230120.b/23012016.D
Injection Date: 20-JAN-2023 21:26
Lab ID:22L0459-01 Client ID:
Report Date: 01/25/2023 06:58

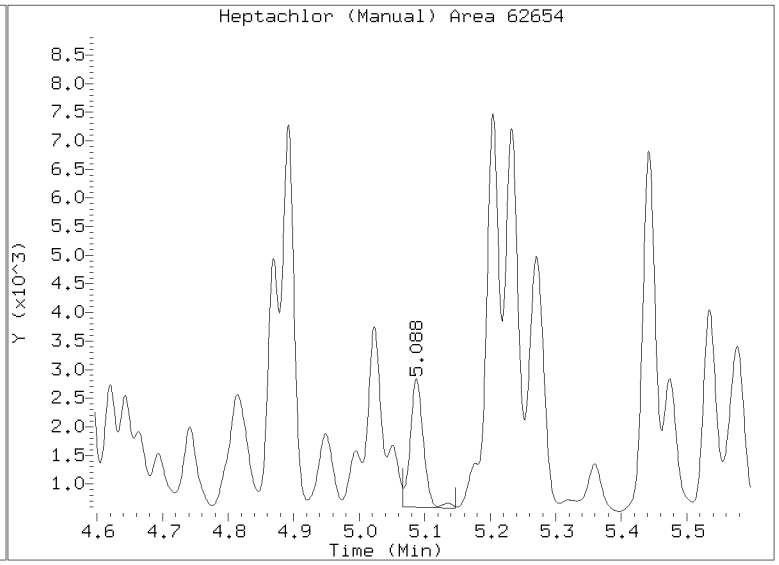












Manual Peak Adjustment Report, STX-CLP

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Injection Date: 20-JAN-2023 21:26
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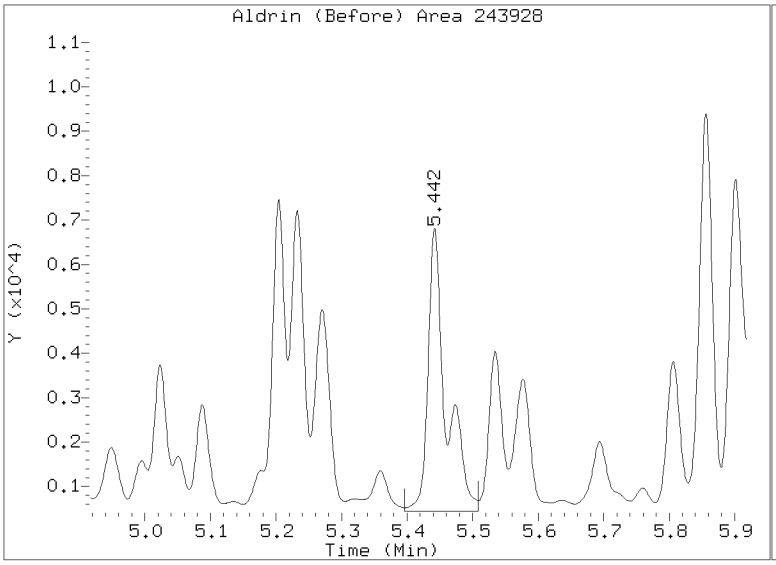
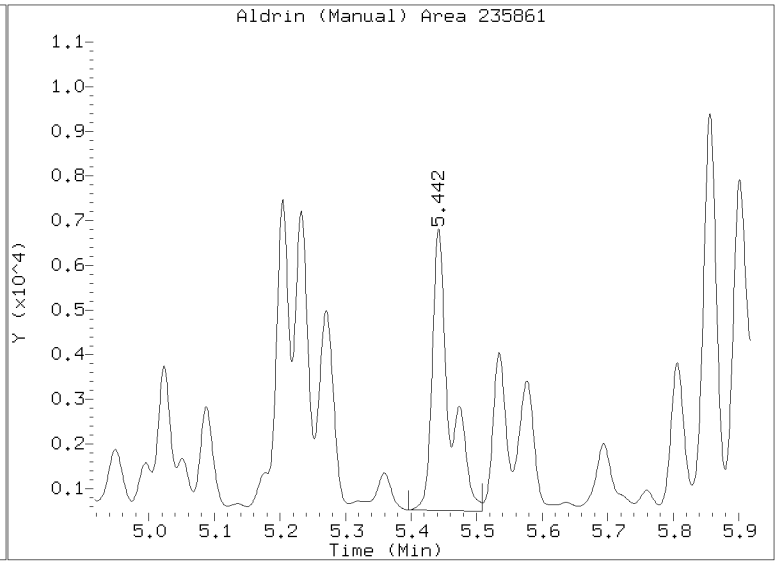
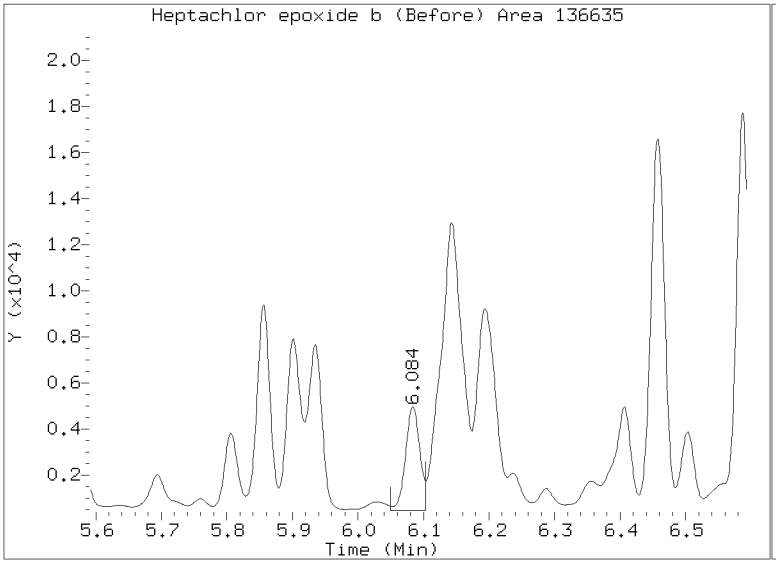
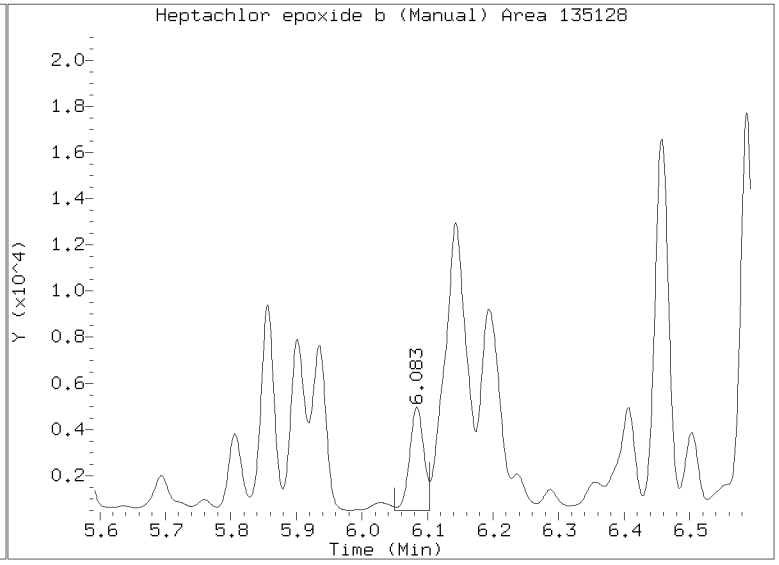
Report Date: 01/25/2023 06:58









Manual Peak Adjustment Report, CLP-2

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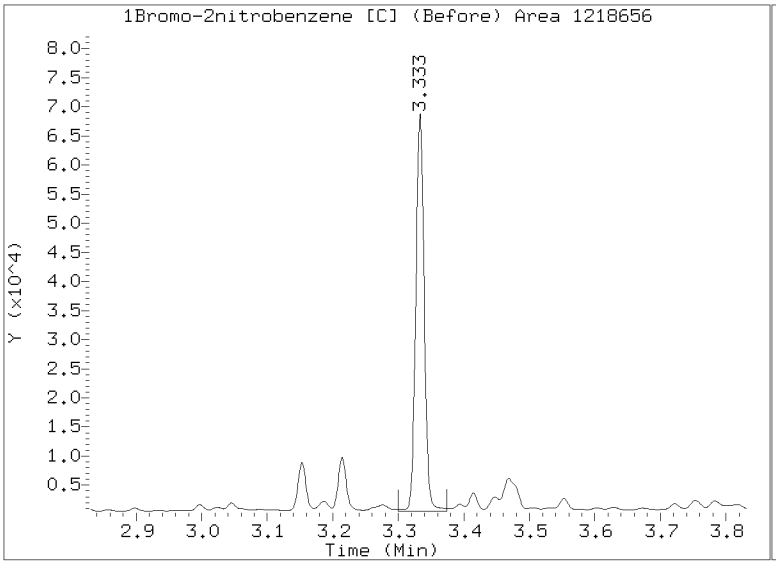
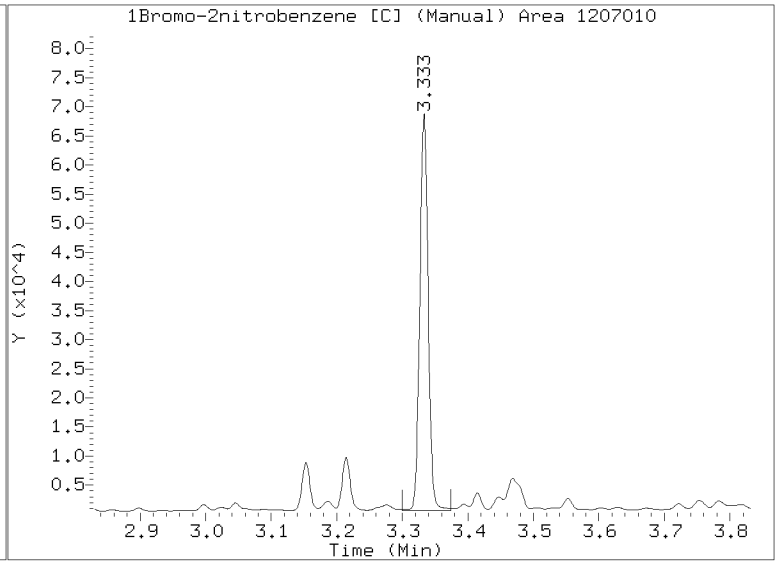
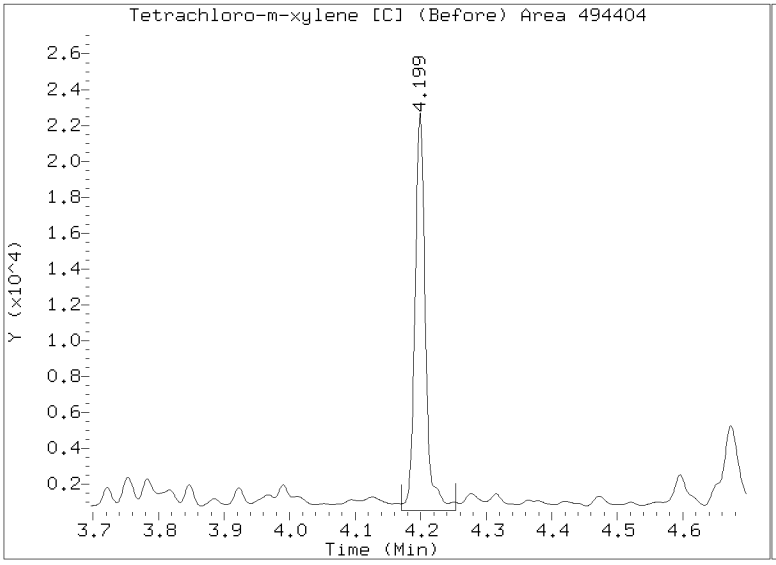
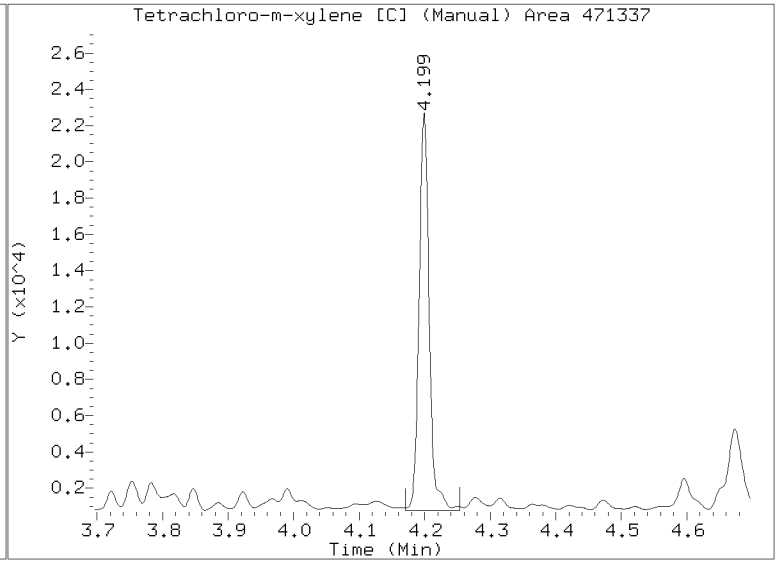
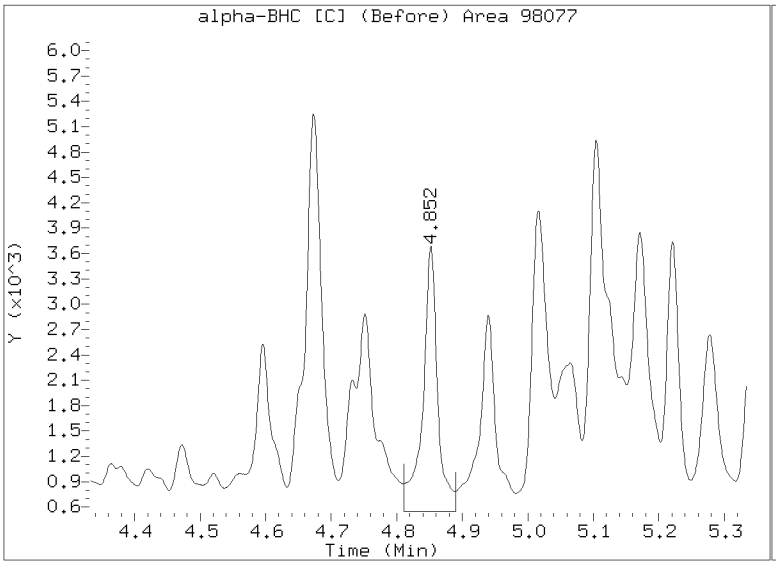
Lab ID:22L0459-01 Client ID:

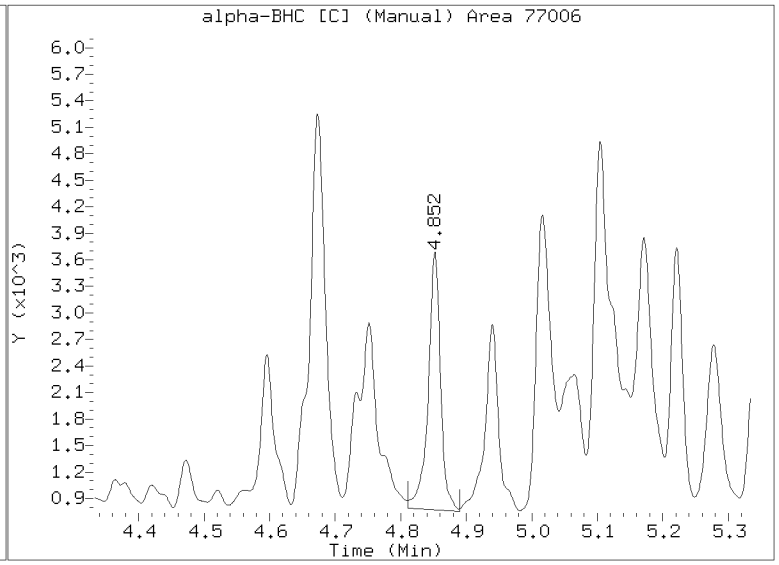






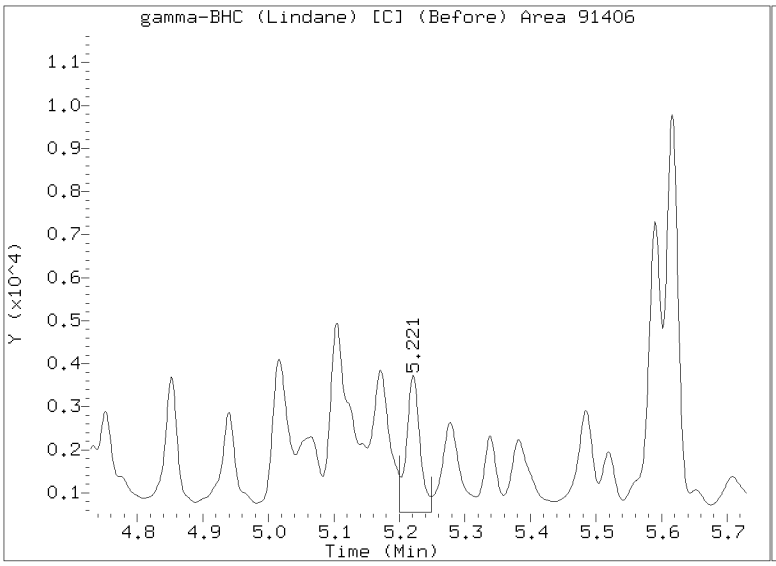


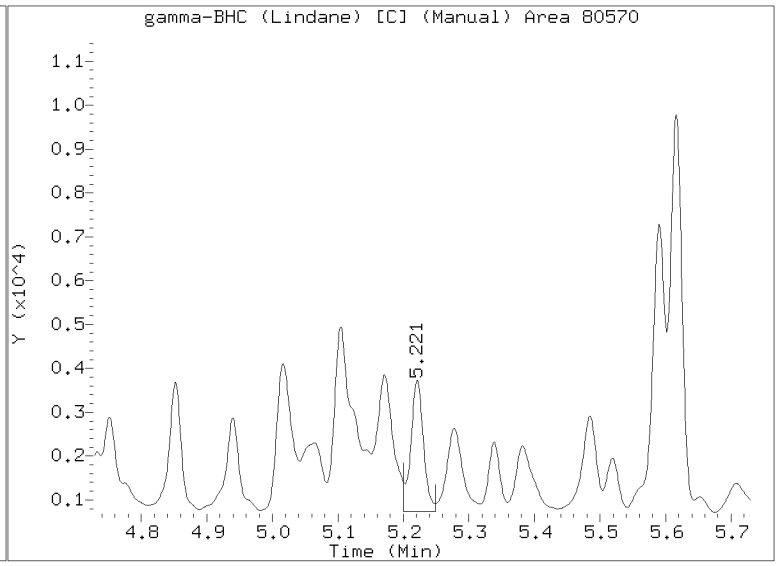


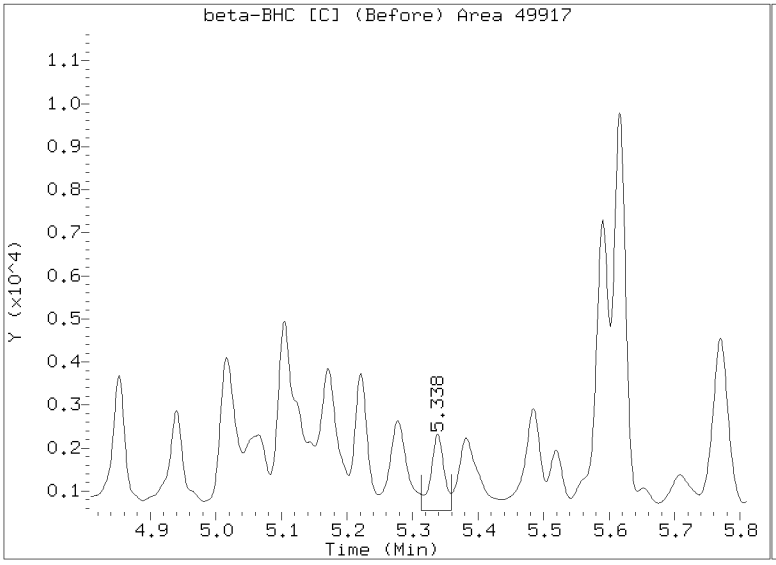


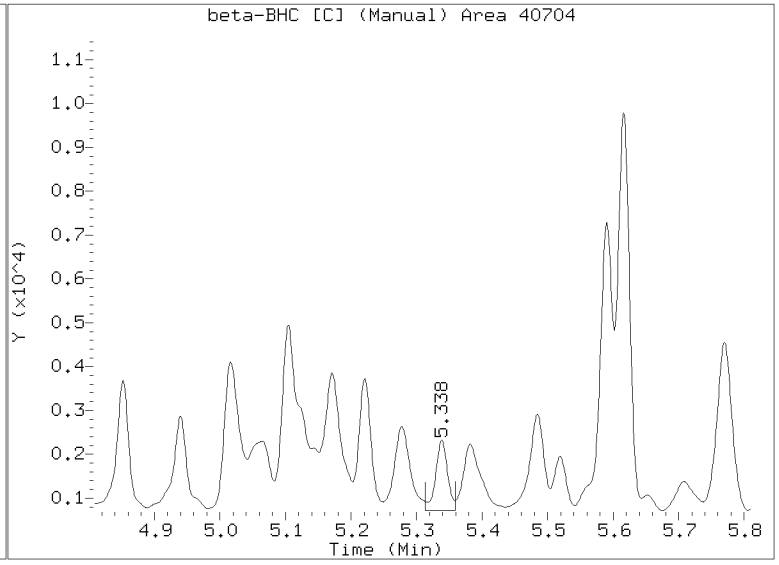
Manual Peak Adjustment Report, CLP-2

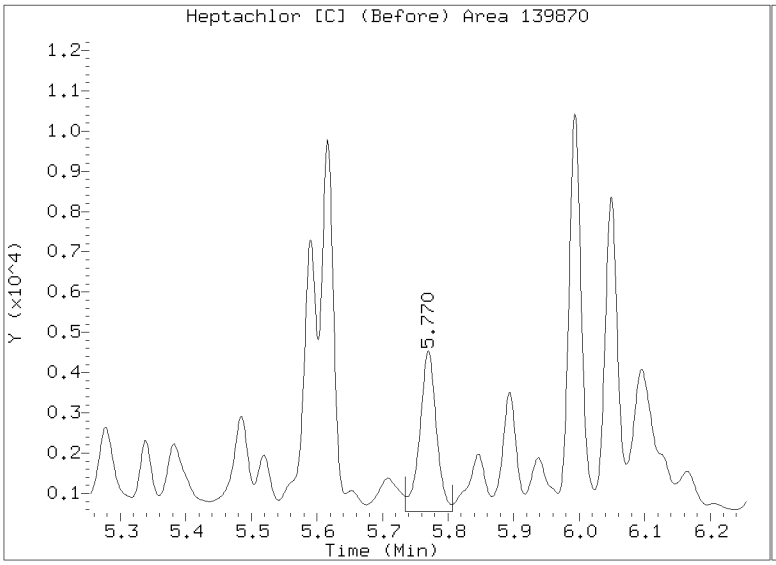
Datafile: /20230120.b/B20230120.b/23012016.D
Injection Date: 20-JAN-2023 21:26
Lab ID:22L0459-01 Client ID:

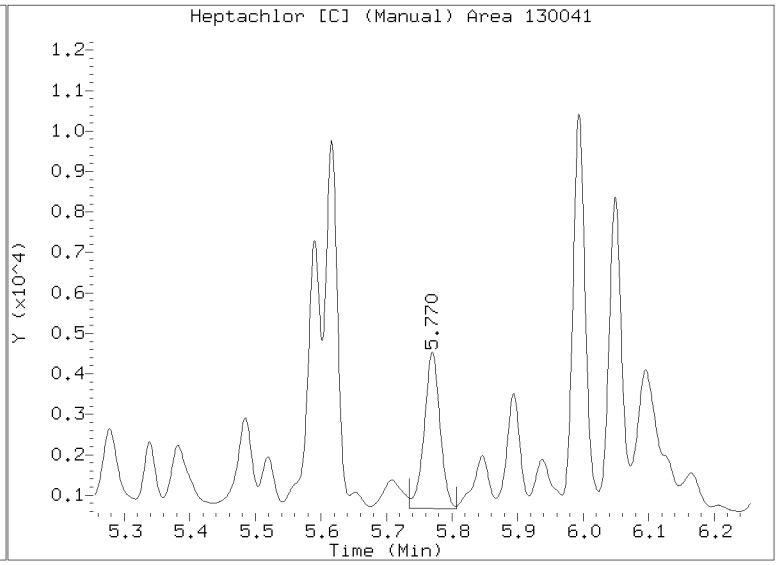












Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1053C

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-02 A	File ID:	23012017.D
Sampled:	12/16/22 09:12	Prepared:	01/05/23 15:38	Analyzed:	01/20/23 21:44
% Solids:	57.86	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.62 g Wet / 2.5 mL
Batch:	BLA0068	Sequence:	SLA0279	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9940*	*7.63*	*95.5*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9940*	*8.13*	*102*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9940*	*5.29*	*66.2*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9940*	*5.26*	*65.8*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012017.D
Data file 2: /20230120.b/B20230120.b/23012017.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 22L0459-02
Client ID:
Injection Date: 20-JAN-2023 21:44
Report Date: 01/25/2023 06:58
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.310	-0.004	83408	4.850	0.016	21551	4.98	0.92	137.4*	alpha-BHC MN
----			5.338	0.028	27456	0.00	3.09	---	beta-BHC
4.891	0.013	155229	----			11.33	0.00	---	delta-BHC
4.619	0.004	93062	5.223	-0.007	19884	6.40	1.00	145.8*	gamma-BHC (Lindane) MN
5.086	-0.011	34308	5.770	0.014	65519	2.65	3.65	31.6	Heptachlor MN
5.440	0.022	113348	6.164	0.005	29750	7.82	1.45	137.4*	Aldrin MN
6.084	-0.009	52158	6.796	-0.019	303835	4.15	17.93	124.8*	Heptachlor epoxide b
----			7.249	-0.010	35977	0.00	2.41	---	Endosulfan I
6.781	-0.014	170056	7.537	-0.016	117624	13.73	7.13	63.3*	Dieldrin
6.455	-0.000	173712	7.342	-0.001	95474	15.10	6.31	82.1*	4,4'-DDE
7.075	0.029	422869	----			50.64	0.00	---	Endrin
7.259	-0.023	22392	8.075	-0.013	336795	2.98	30.19	164.1*	Endosulfan II
----			7.950	0.000	165553	0.00	15.64	---	4,4'-DDD
8.133	-0.012	14503	----			2.03	0.00	---	Endosulfan sulfate
7.371	-0.024	363754	8.277	0.010	534911	47.85	52.35	9.0	4,4'-DDT
----			8.881	-0.028	316008	0.00	69.88	---	Methoxychlor
8.391	-0.028	74014	9.230	0.020	291943	9.05	27.59	101.2*	Endrin ketone
7.739	0.028	98989	8.415	-0.004	102271	16.51	13.00	23.8	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
6.404	0.023	119389	7.186	-0.000	48257	9.33	2.92	104.7*	cis-Chlordane
2.291	-0.017	16017	2.458	-0.028	134655	0.91	6.07	147.8*	Hexachlorobutadiene
----			----			0.00	0.00	---	Hexachlorobenzene
3.805	0.002	313659	4.198	0.000	431303	26.49	26.30	0.7	Tetrachloro-m-xylene MN
9.330	0.006	246512	10.432	0.001	344209	38.19	40.68	6.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

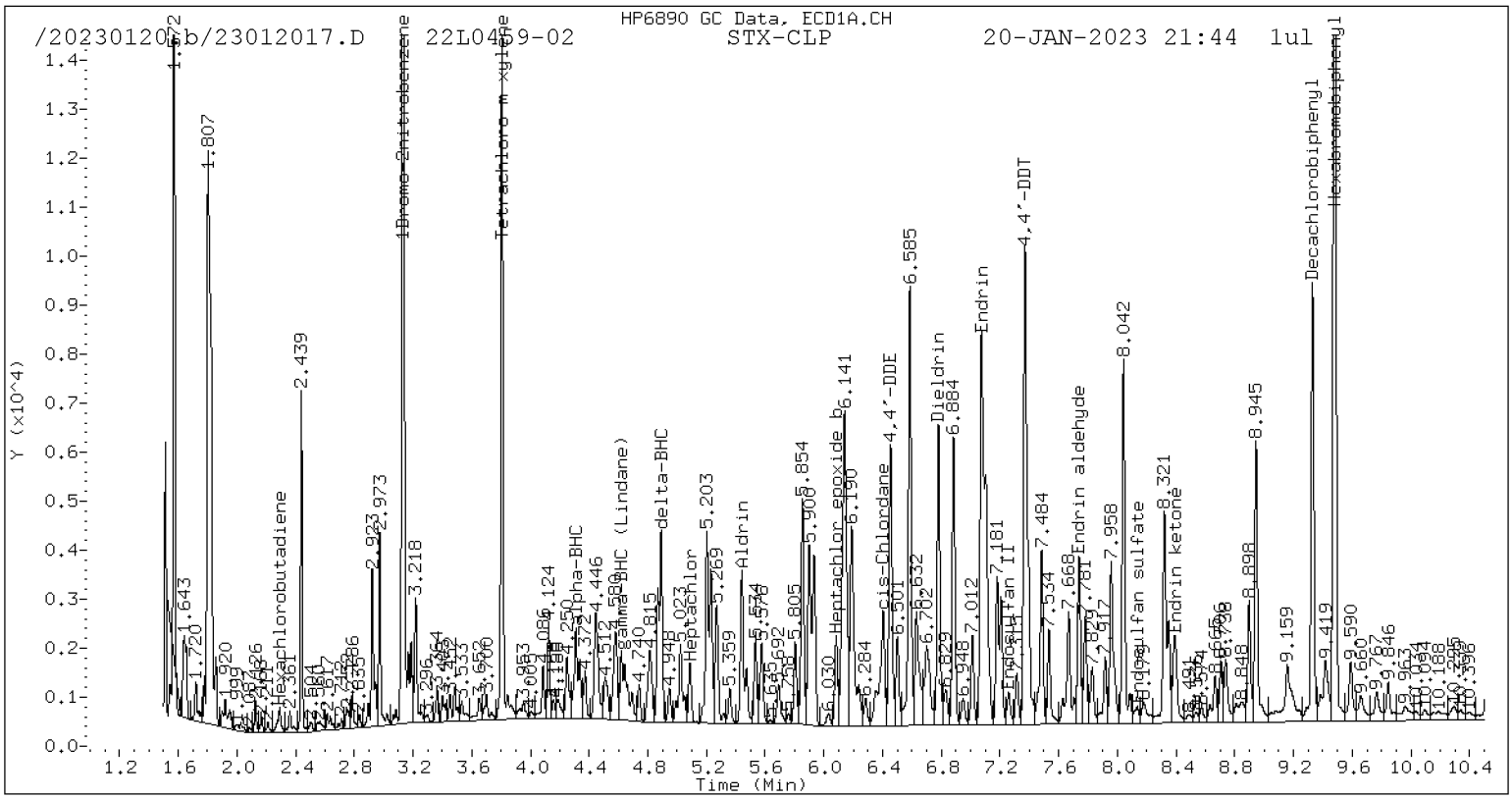
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	870694	29.5
Hexabromobiphenyl	609723	636998	4.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1164939	15.7
Hexabromobiphenyl	769764	765491	-0.6

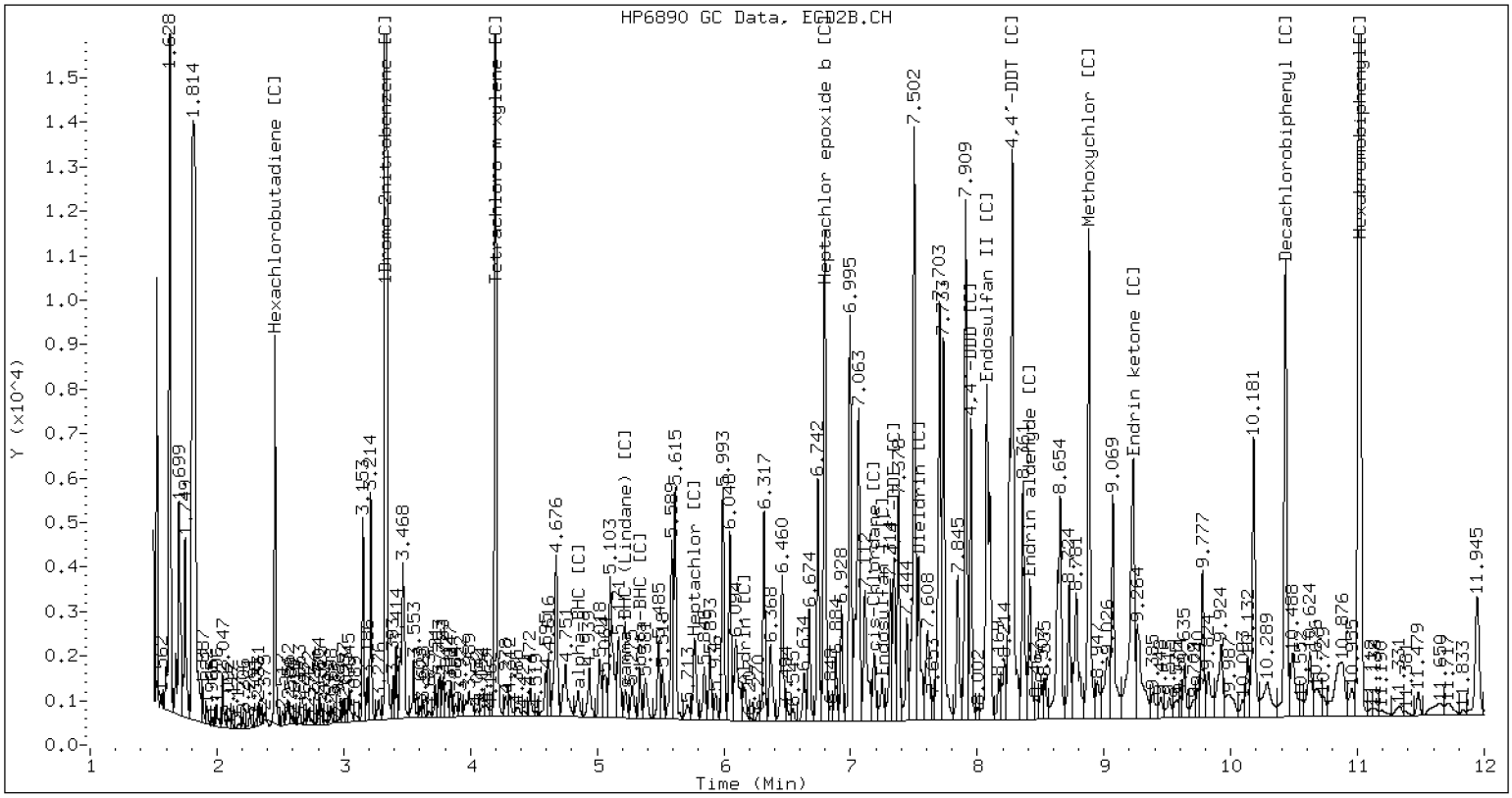
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

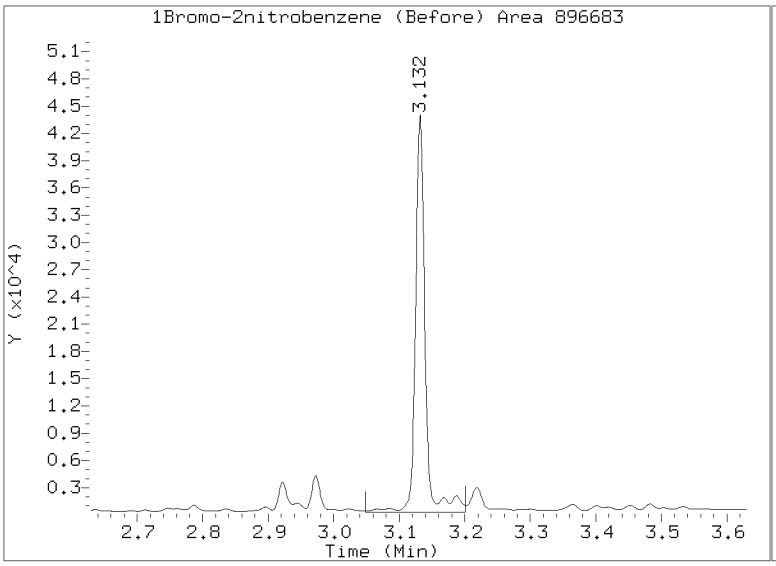
/20230120.b/B20230120.b/23012017.D 22L0459-02 CLP2

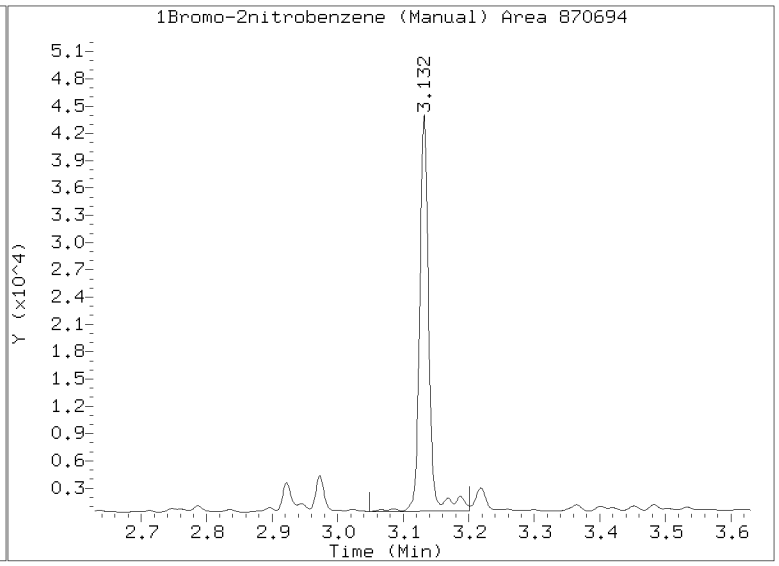


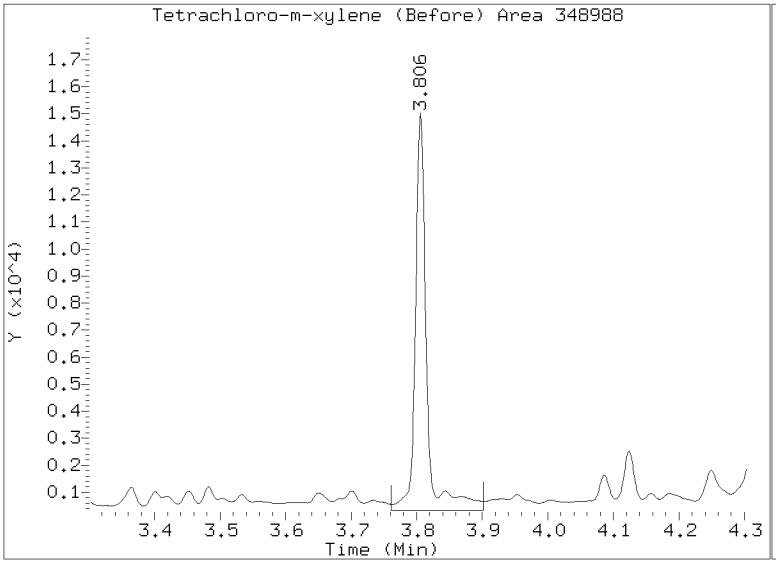
CLP-2 Manual Integration: YES

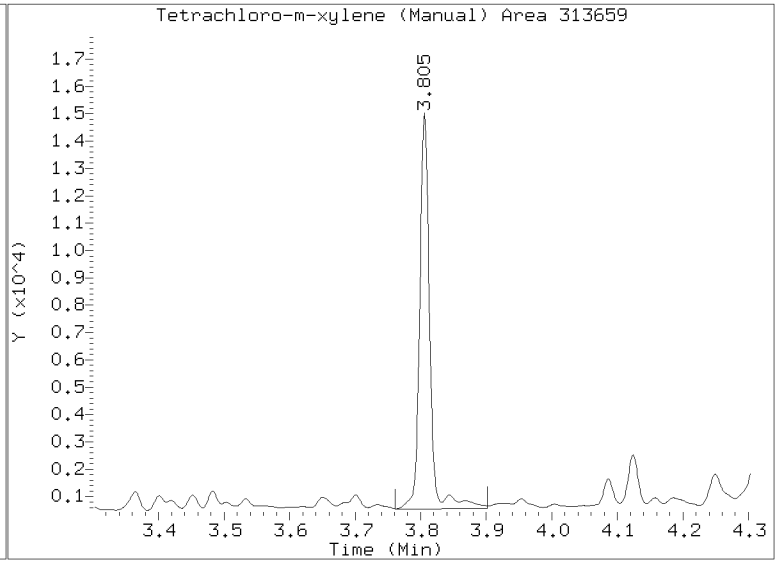
Manual Peak Adjustment Report, STX-CLP

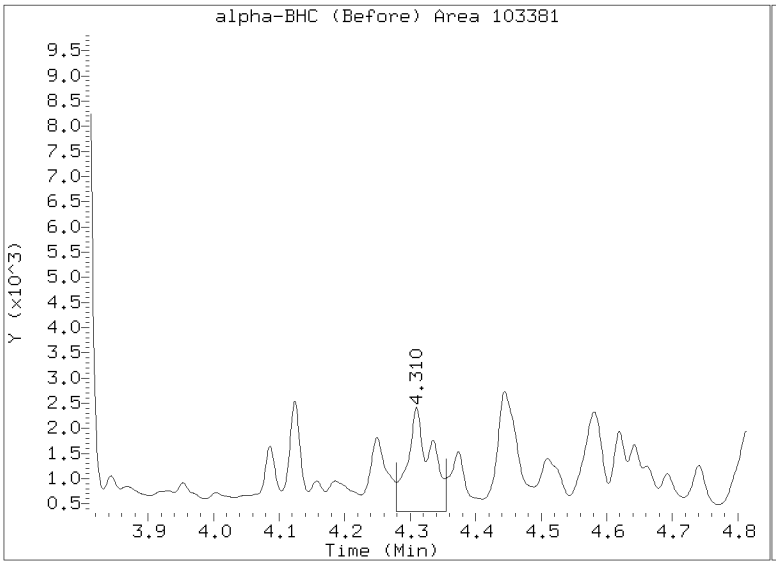
Datafile: /20230120.b/23012017.D
Injection Date: 20-JAN-2023 21:44
Lab ID:22L0459-02 Client ID:
Report Date: 01/25/2023 06:58

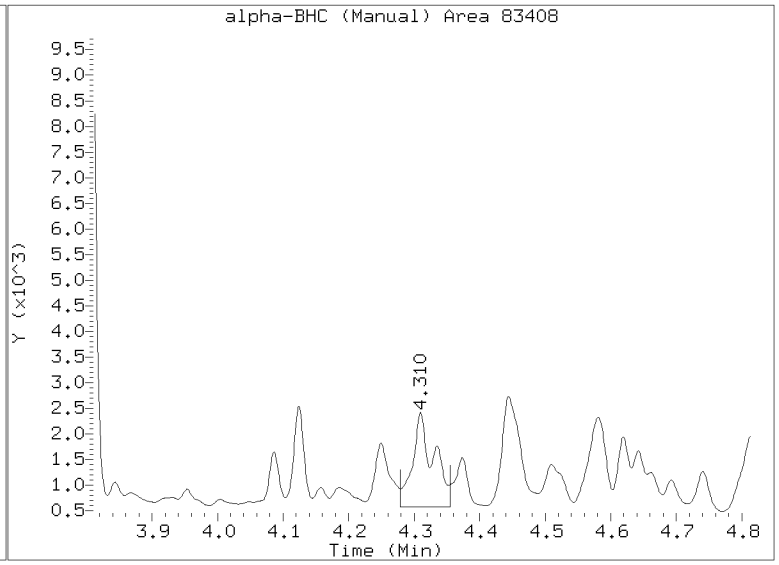












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Lab ID:22L0459-02 Client ID:
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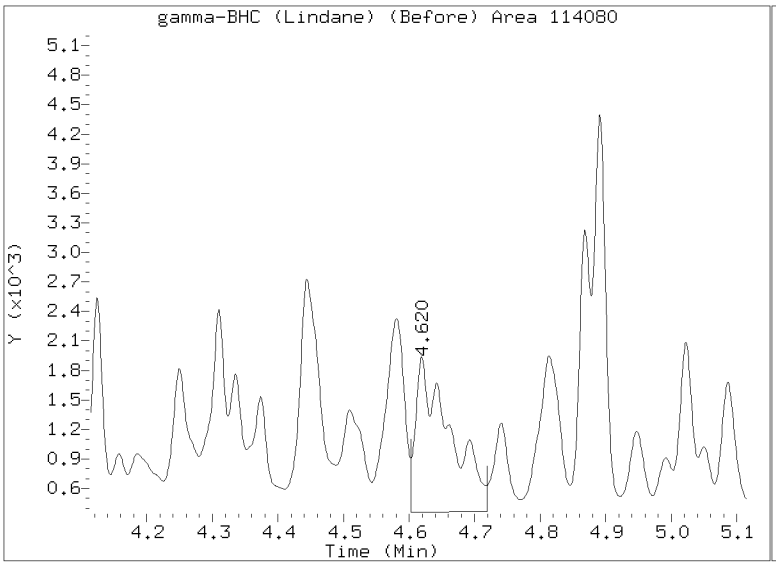
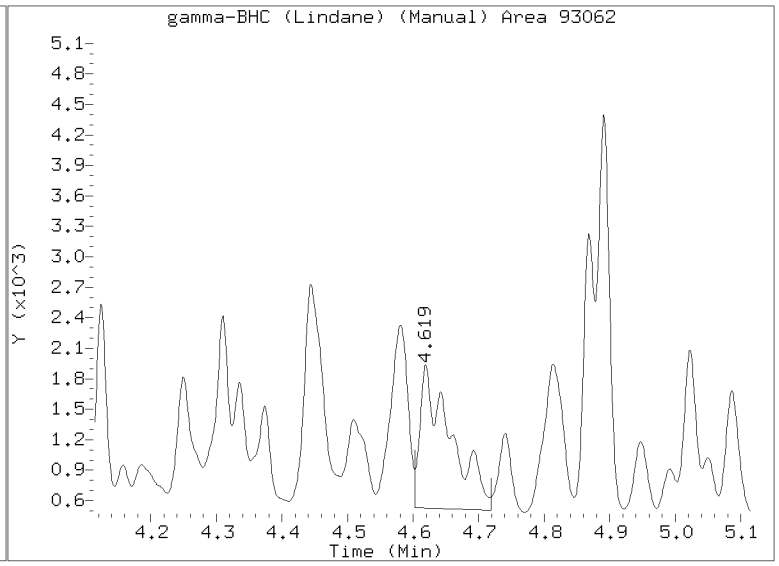
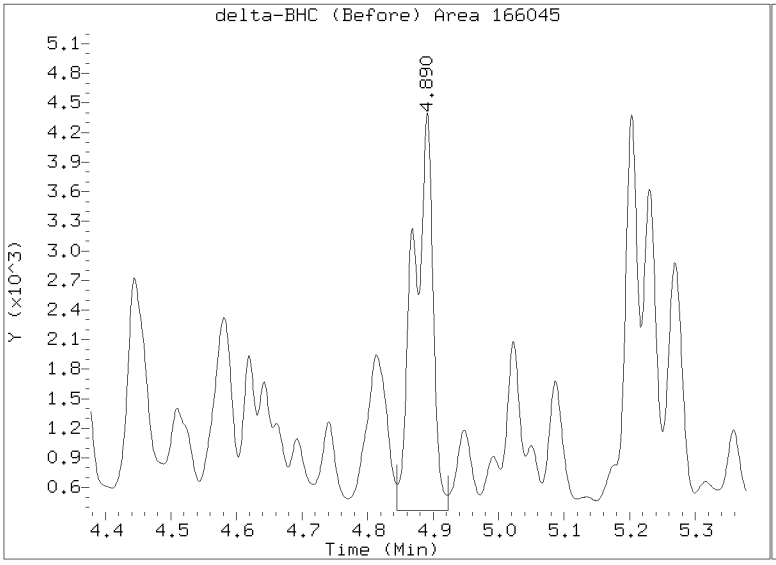
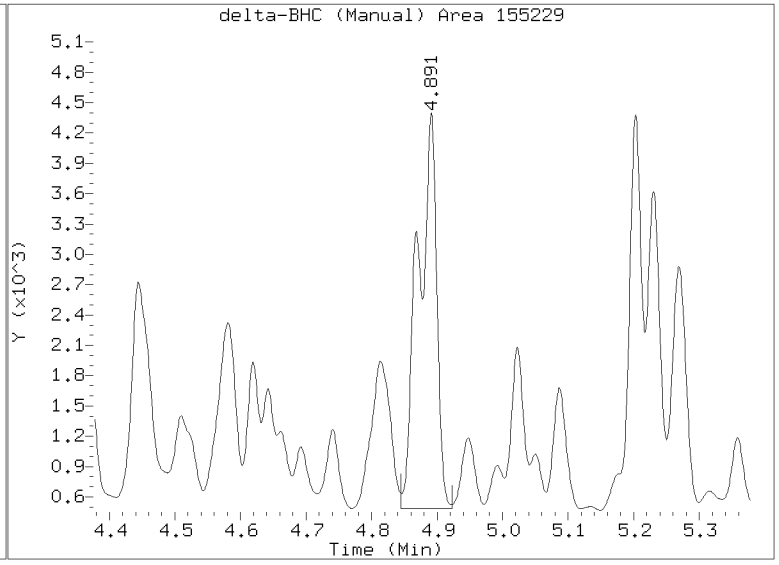
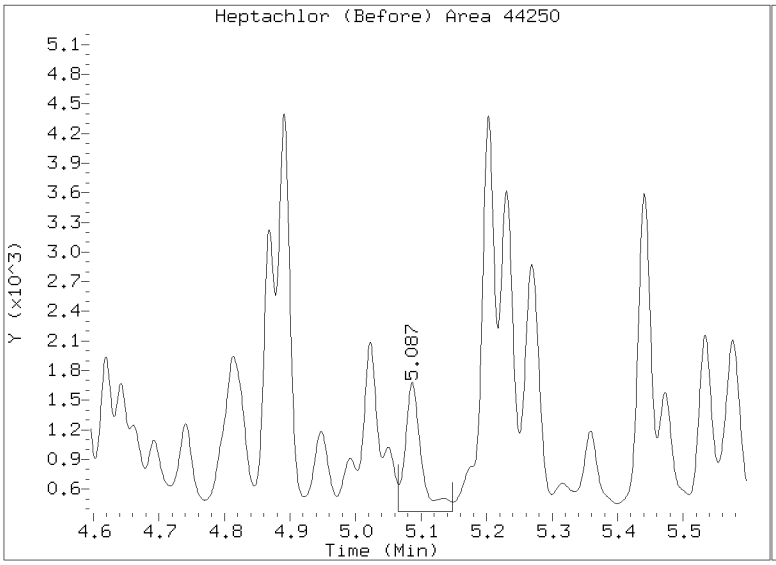
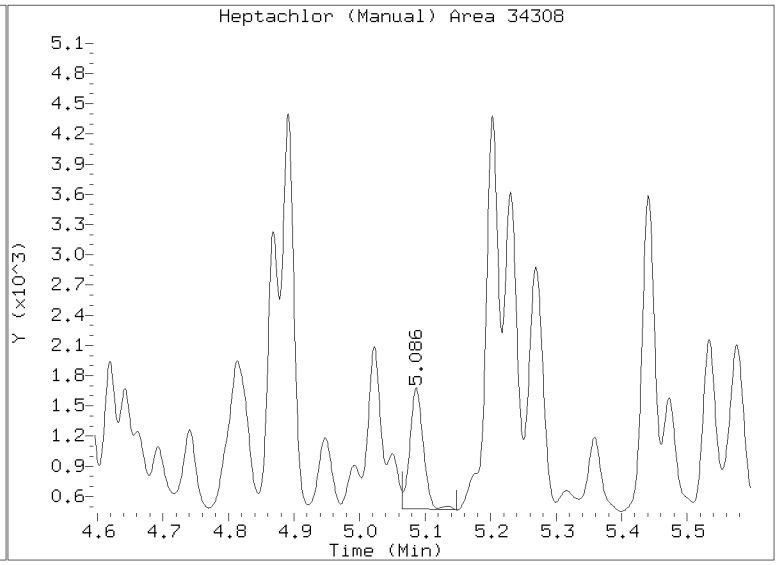






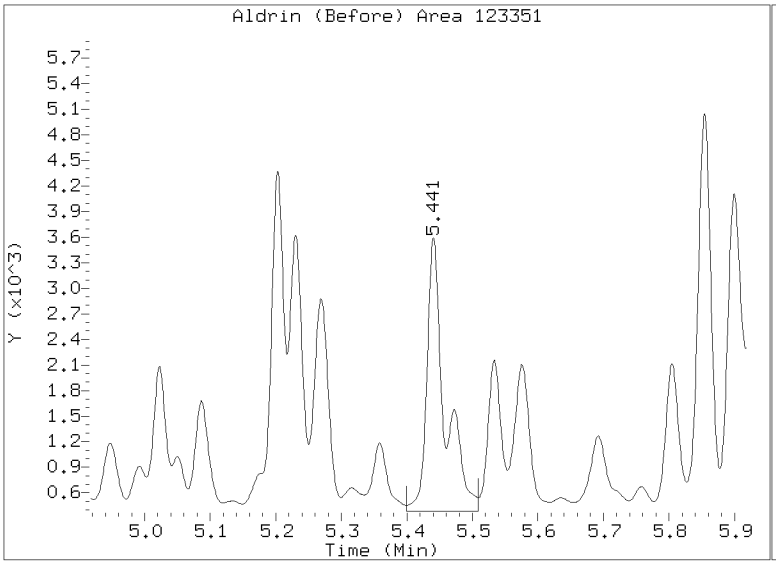


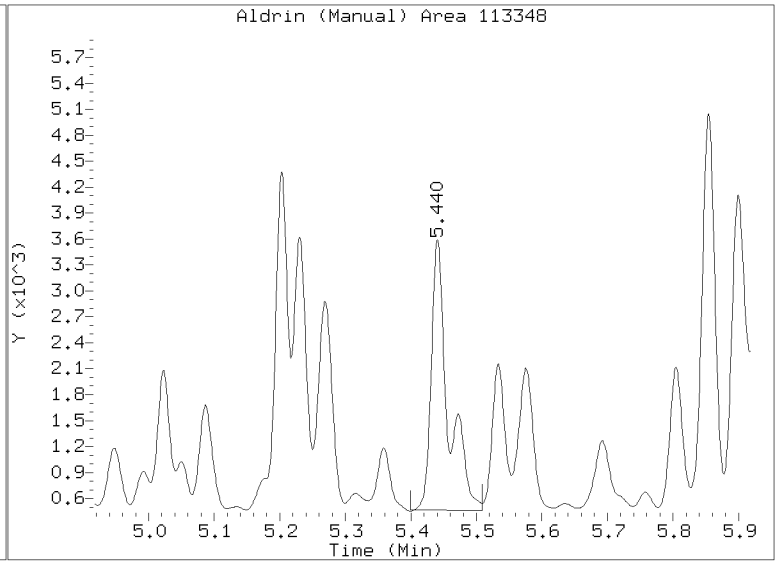




Manual Peak Adjustment Report, STX-CLP

Datafile: /20230120.b/23012017.D
Injection Date: 20-JAN-2023 21:44
Lab ID:22L0459-02 Client ID:
Report Date: 01/25/2023 06:58





Manual Peak Adjustment Report, CLP-2

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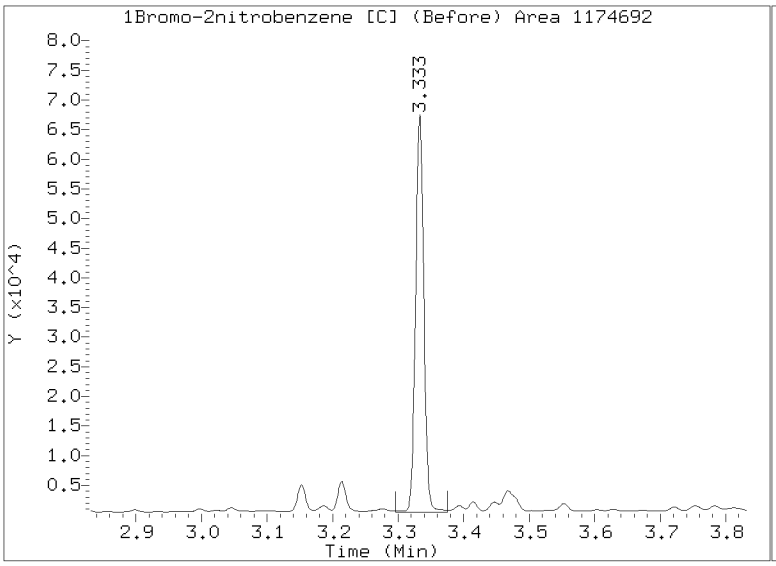
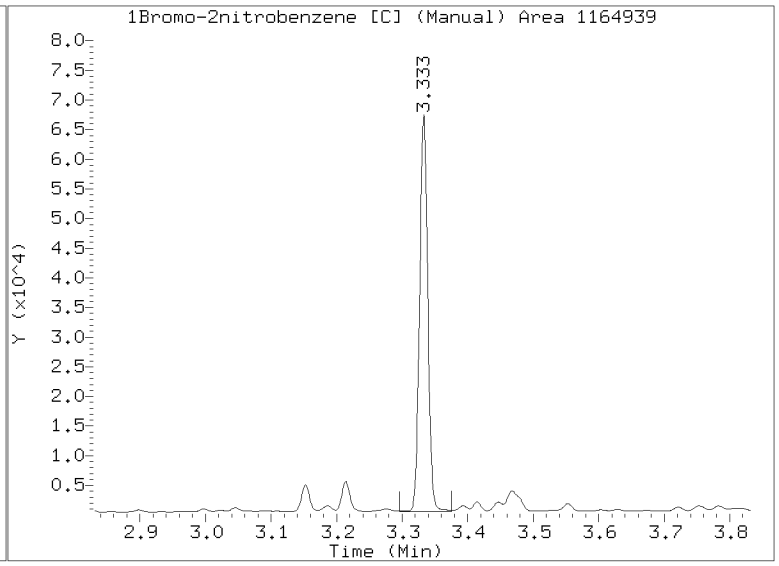
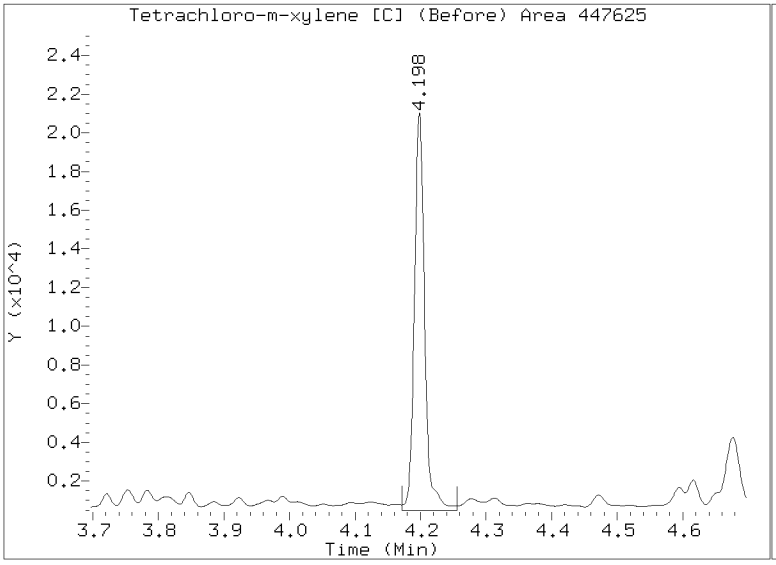
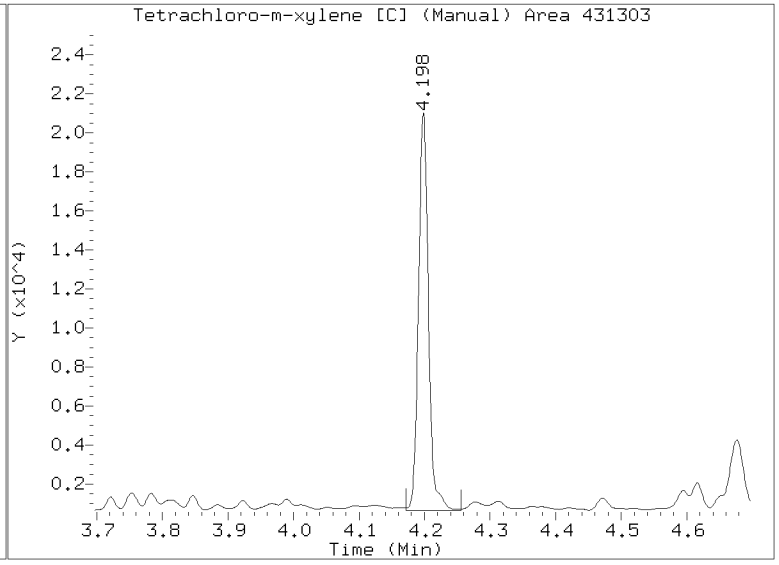
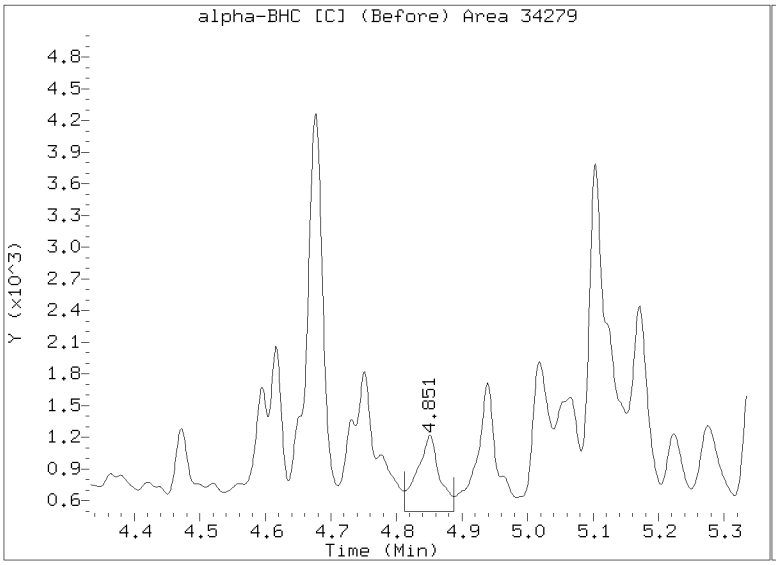
Lab ID:22L0459-02 Client ID:

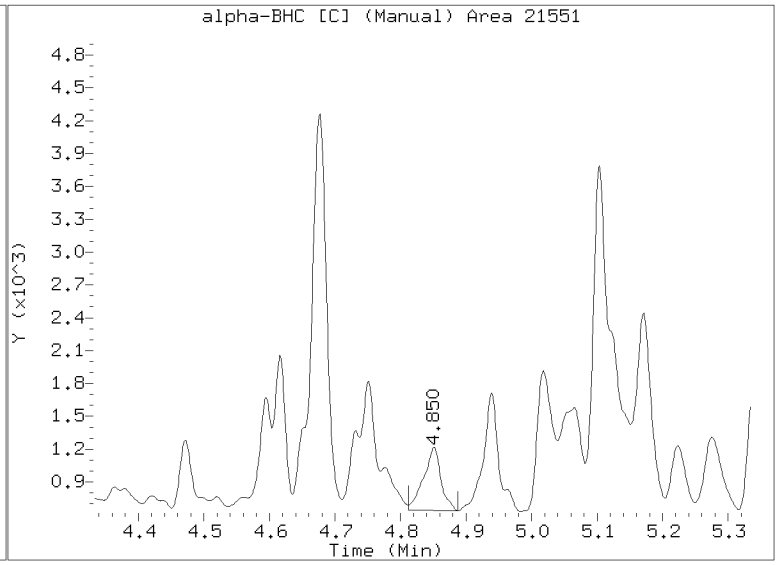






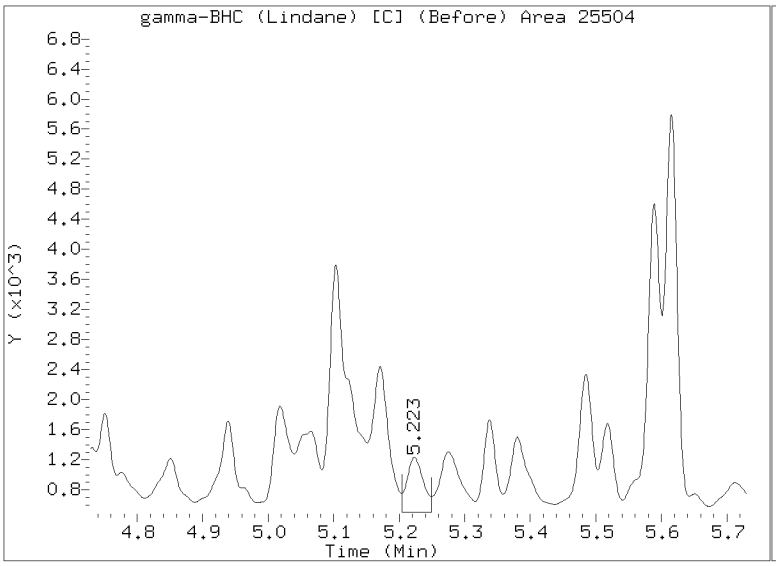


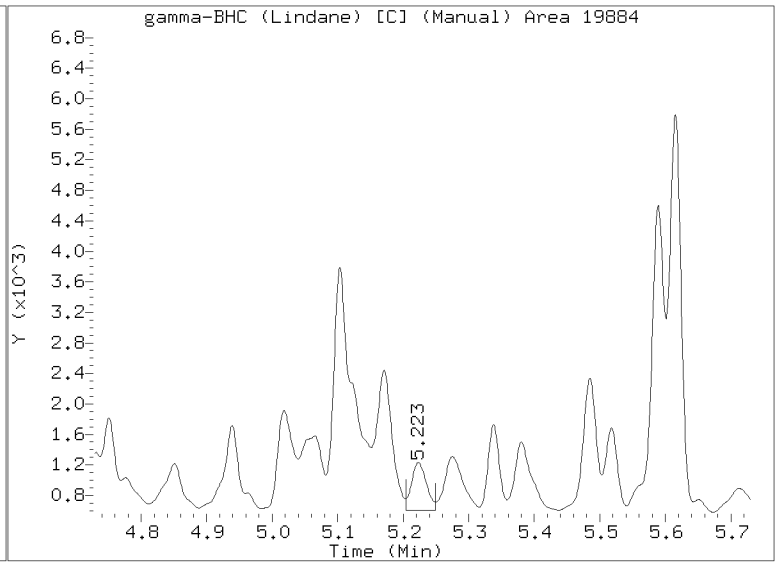


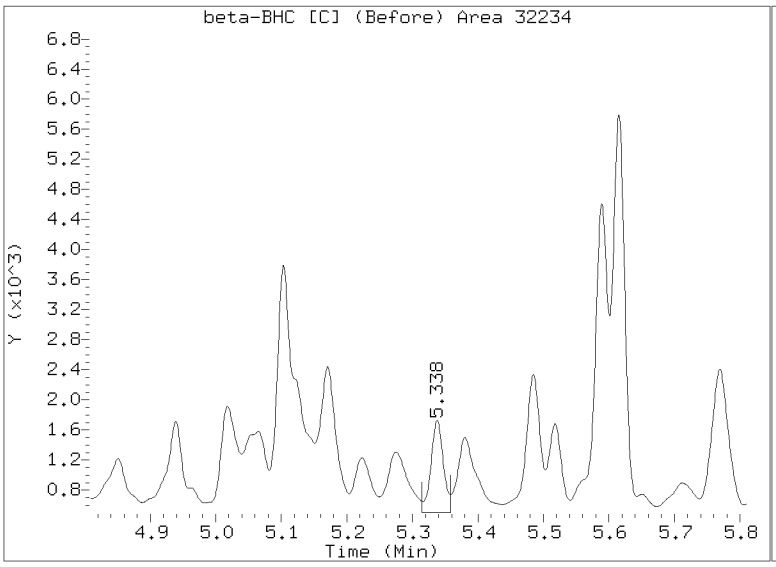


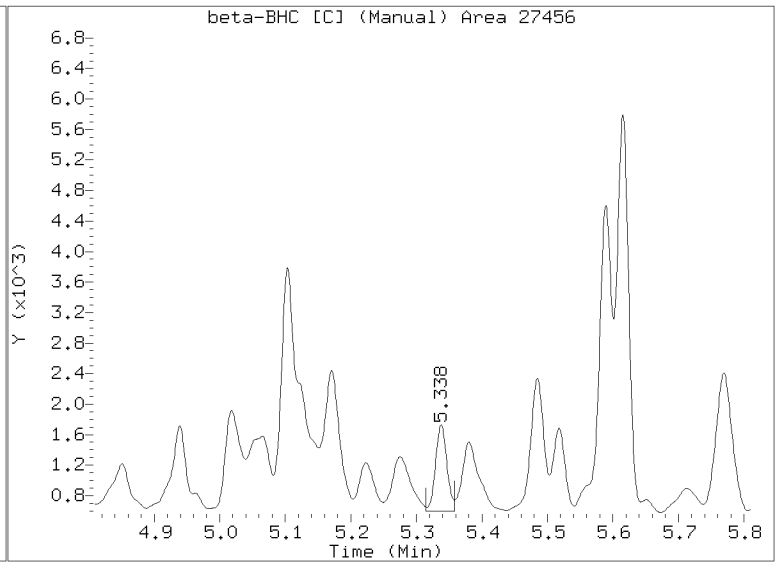
Manual Peak Adjustment Report, CLP-2

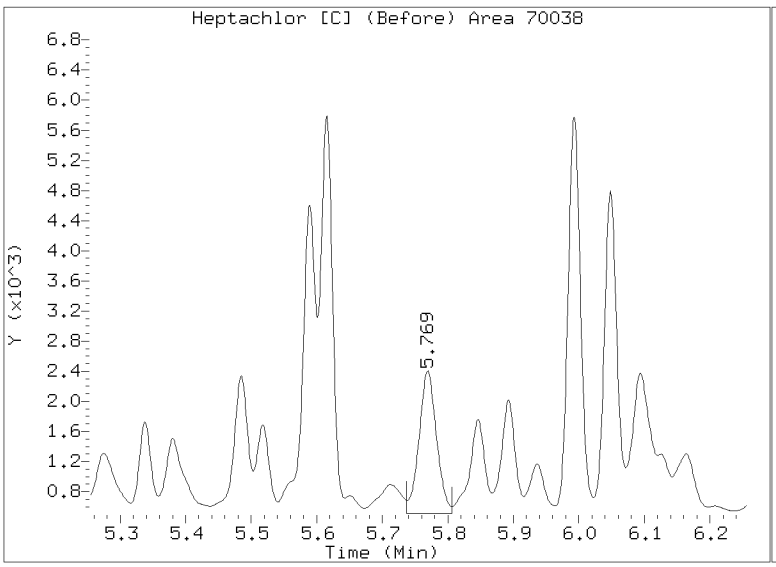
Datafile: /20230120.b/B20230120.b/23012017.D
Injection Date: 20-JAN-2023 21:44
Lab ID:22L0459-02 Client ID:

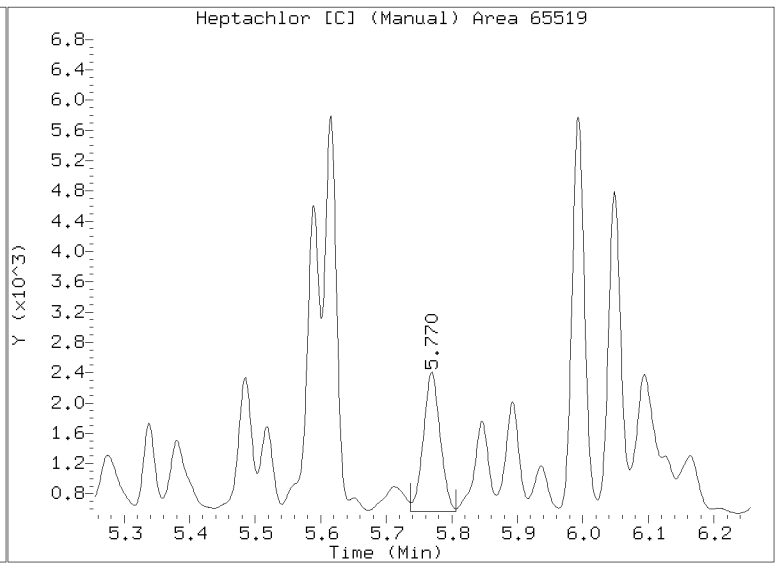






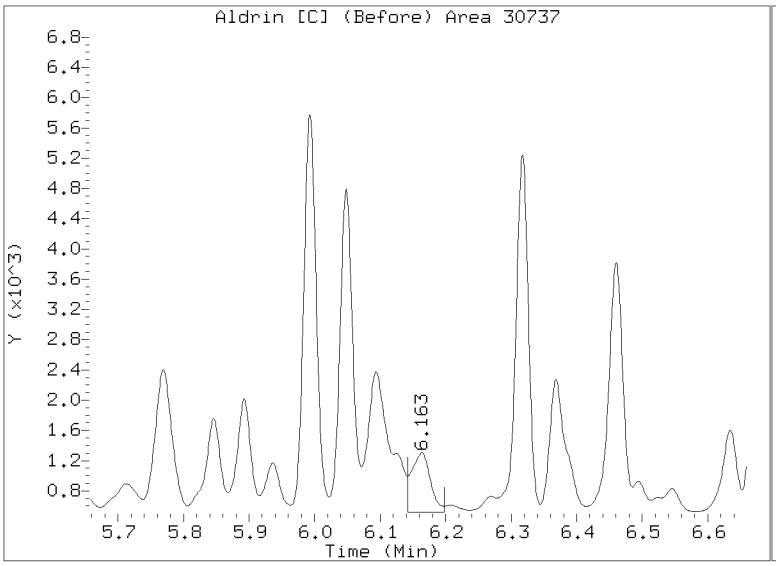


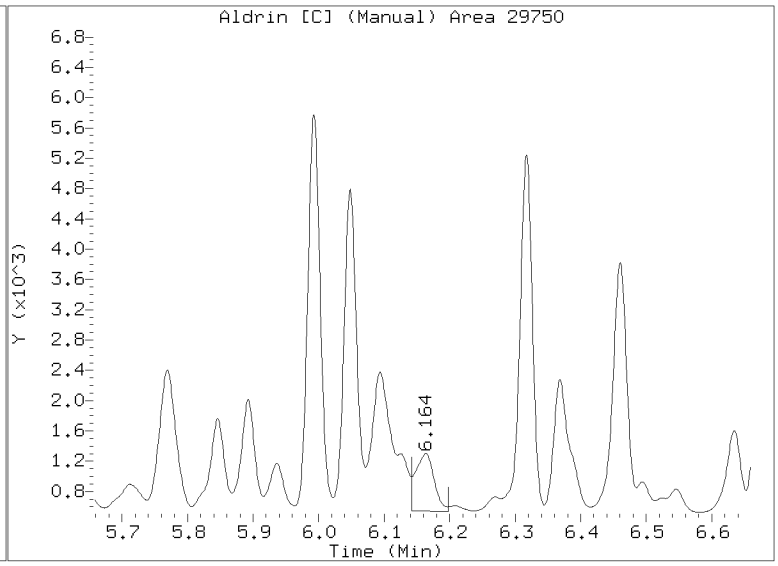




Manual Peak Adjustment Report, CLP-2

Datafile: /20230120.b/B20230120.b/23012017.D
Injection Date: 20-JAN-2023 21:44
Lab ID:22L0459-02 Client ID:





Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1039C

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-03 A	File ID:	23012020.D
Sampled:	12/16/22 09:50	Prepared:	01/05/23 15:38	Analyzed:	01/20/23 22:38
% Solids:	55.02	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.73 g Wet / 2.5 mL
Batch:	BLA0068	Sequence:	SLA0279	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9961*	*7.82*	*97.7*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9961*	*8.13*	*102*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9961*	*4.03*	*50.4*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9961*	*5.05*	*63.2*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012020.D
Data file 2: /20230120.b/B20230120.b/23012020.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 22L0459-03
Client ID:
Injection Date: 20-JAN-2023 22:38
Report Date: 01/25/2023 06:59
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.311	-0.003	182478	4.835	0.001	35966	9.03	1.55	141.4*	alpha-BHC MN
----			5.339	0.029	28390	0.00	3.22	---	beta-BHC
4.892	0.013	197666	----			11.96	0.00	---	delta-BHC
4.620	0.005	147892	5.221	-0.009	36227	8.44	1.84	128.4*	gamma-BHC (Lindane) MN
5.088	-0.009	54668	5.771	0.015	93754	3.51	5.26	40.0	Heptachlor MN
5.443	0.025	146314	6.164	0.005	33722	8.37	1.66	133.9*	Aldrin MN
6.086	-0.007	70244	6.798	-0.017	463379	4.64	27.52	142.3*	Heptachlor epoxide b M
----			7.250	-0.009	40270	0.00	2.71	---	Endosulfan I
6.784	-0.011	245560	7.538	-0.014	179409	16.44	10.94	40.1*	Dieldrin
6.458	0.003	256776	7.344	0.001	154497	18.51	10.27	57.2*	4,4'-DDE
----			----			0.00	0.00	---	Endrin
7.264	-0.019	29044	8.100	0.012	197581	3.66	18.87	135.0*	Endosulfan II
7.078	-0.024	713038	7.951	0.001	334973	89.75	33.72	90.8*	4,4'-DDD
8.134	-0.012	26199	----			3.48	0.00	---	Endosulfan sulfate
7.374	-0.021	557537	8.279	0.012	757465	69.45	78.99	12.9	4,4'-DDT
----			8.882	-0.027	505186	0.00	119.05	---	Methoxychlor
8.395	-0.024	123774	9.232	0.021	482980	14.33	48.64	108.9*	Endrin ketone
7.741	0.030	166979	8.417	-0.002	146361	26.37	19.82	28.4	Endrin aldehyde
----			7.036	0.010	160716	0.00	9.57	---	trans-Chlordane
6.407	0.026	159339	7.187	0.001	60667	10.32	3.69	94.6*	cis-Chlordane
2.291	-0.017	23245	2.457	-0.029	94654	1.10	4.30	118.6*	Hexachlorobutadiene
----			----			0.00	0.00	---	Hexachlorobenzene
3.806	0.003	287672	4.199	0.001	411954	20.14	25.28	22.6	Tetrachloro-m-xylene MN
9.334	0.010	266467	10.435	0.004	322782	39.10	40.65	3.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

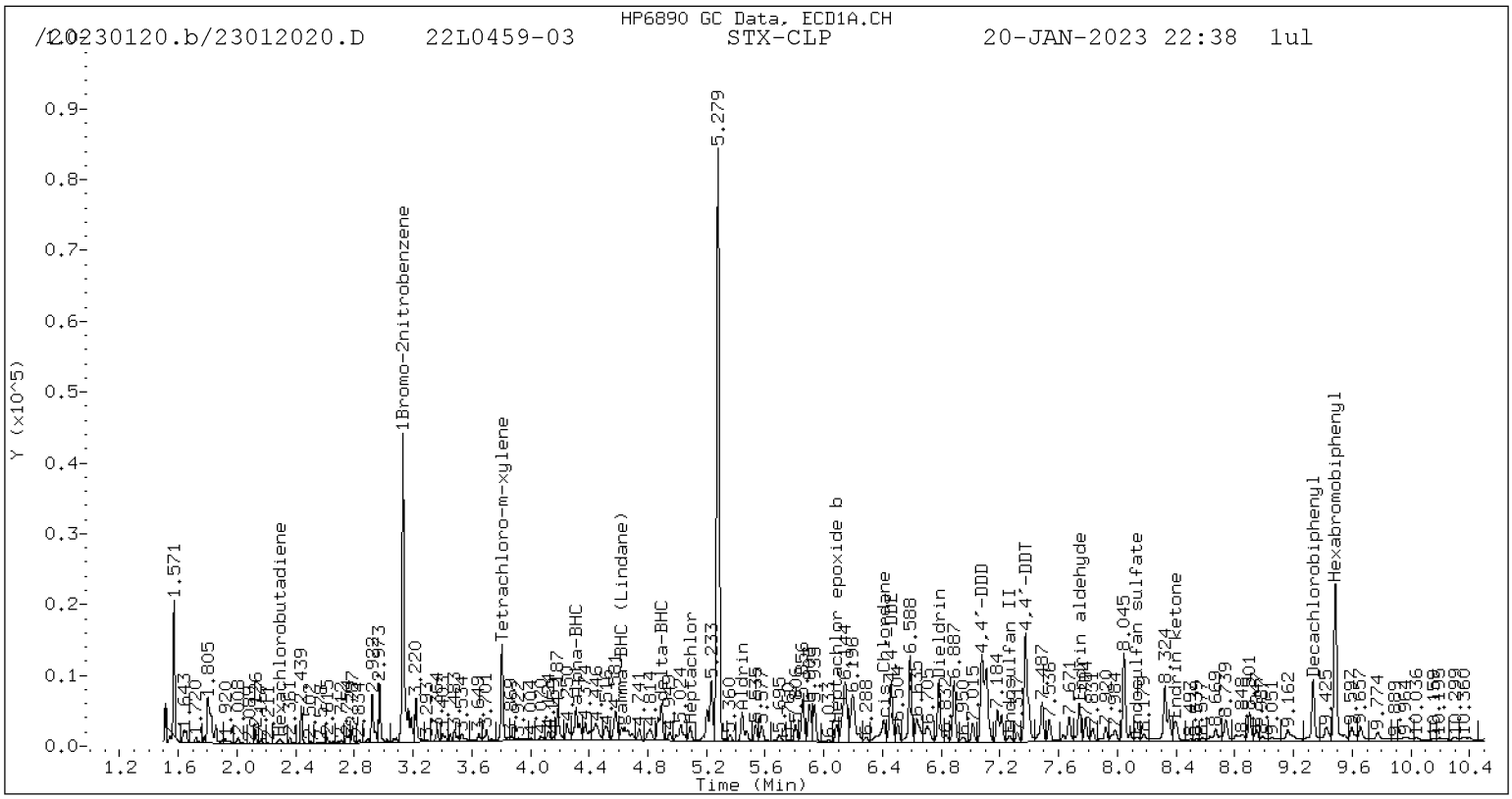
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	1050089	56.2
Hexabromobiphenyl	609723	672602	10.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1157649	15.0
Hexabromobiphenyl	769764	718372	-6.7

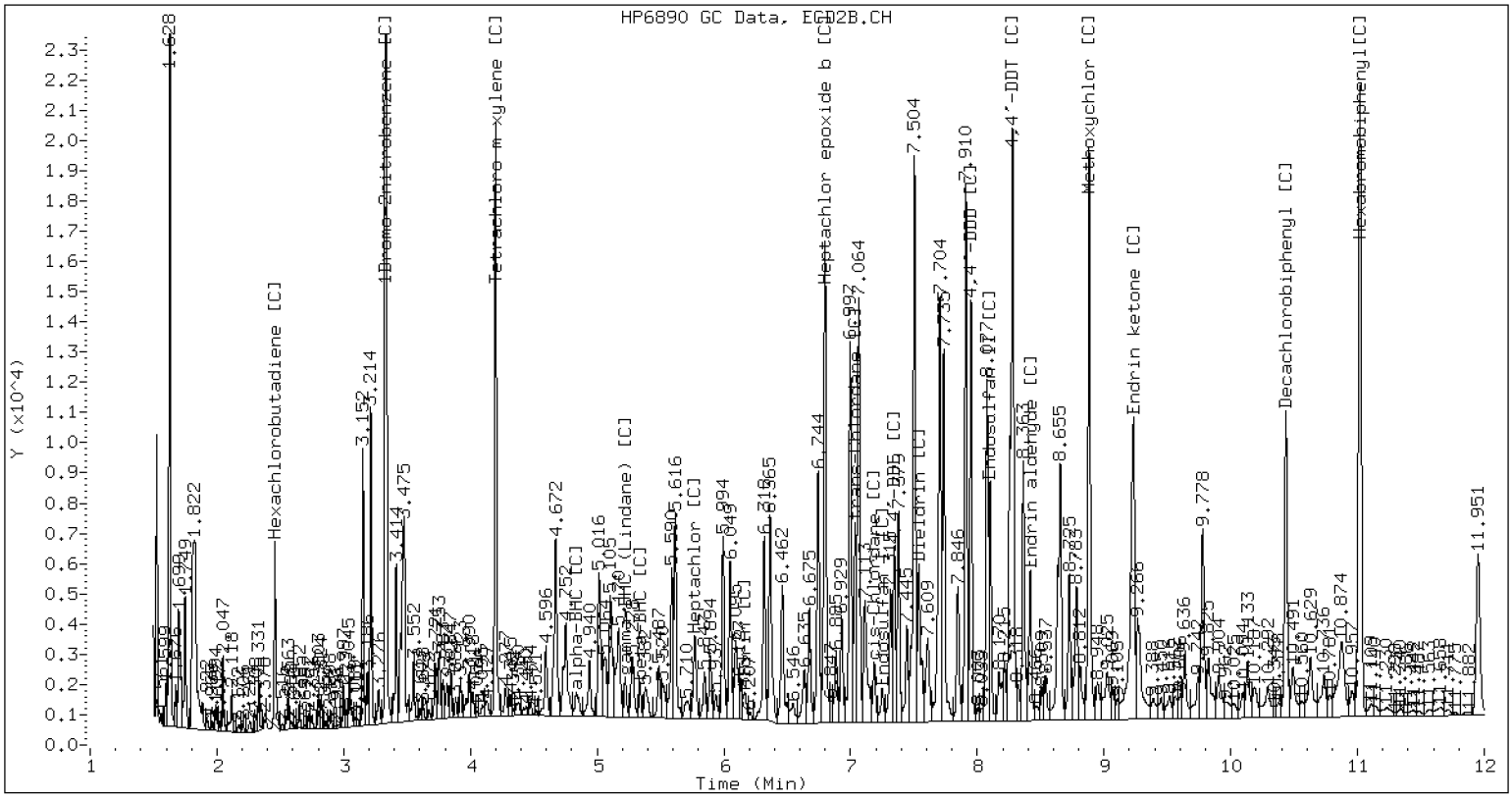
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

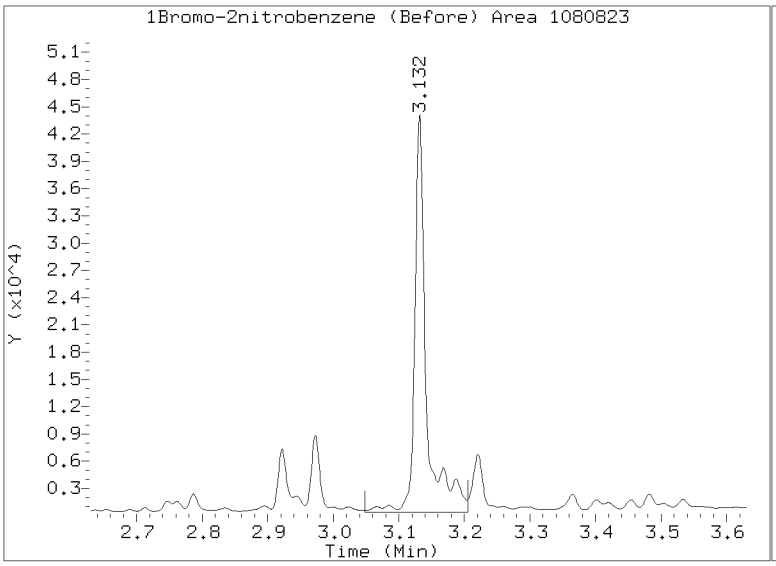
/20230120.b/B20230120.b/23012020.D 22L0459-03 CLP2

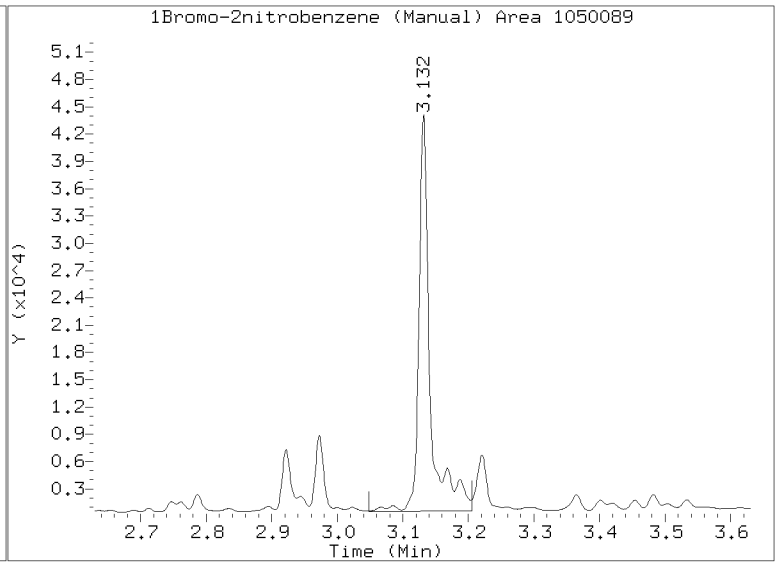


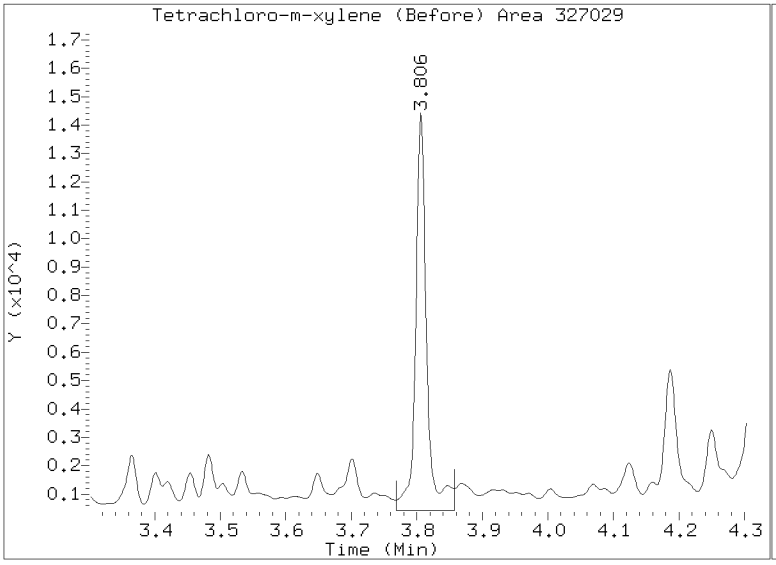
CLP-2 Manual Integration: YES

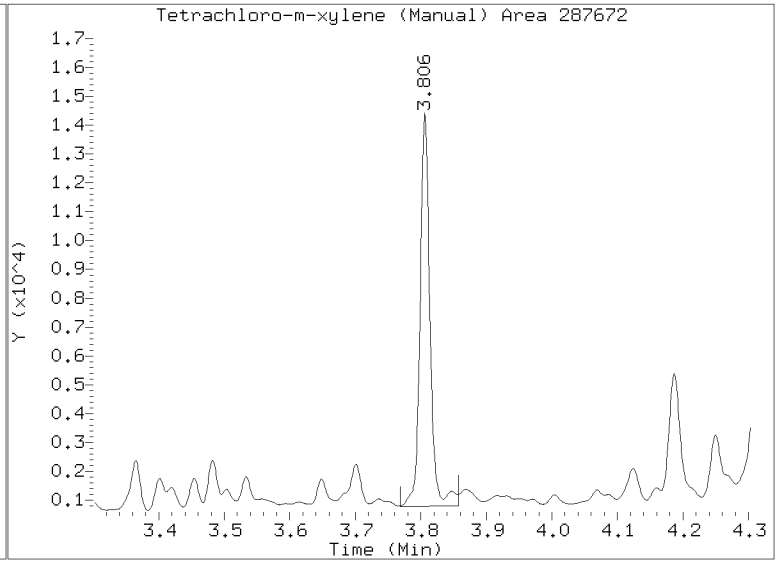
Manual Peak Adjustment Report, STX-CLP

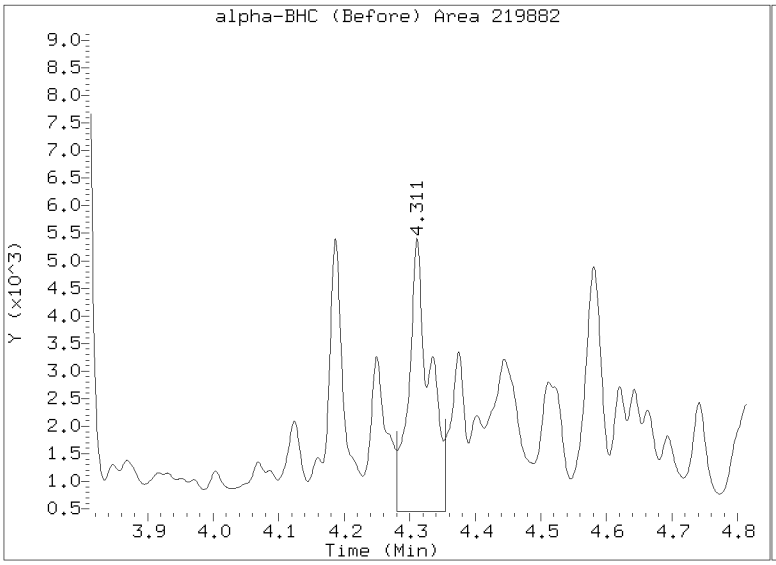
Datafile: /20230120.b/23012020.D
Injection Date: 20-JAN-2023 22:38
Lab ID:22L0459-03 Client ID:
Report Date: 01/25/2023 06:59

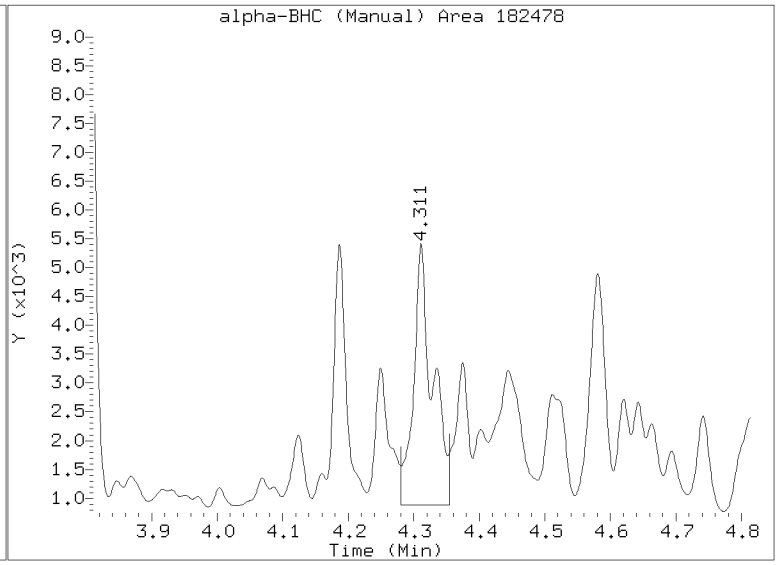












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Datafile: /20230120.b/23012020.D
Injection Date: 20-JAN-2023 22:38
Lab ID:22L0459-03 Client ID:
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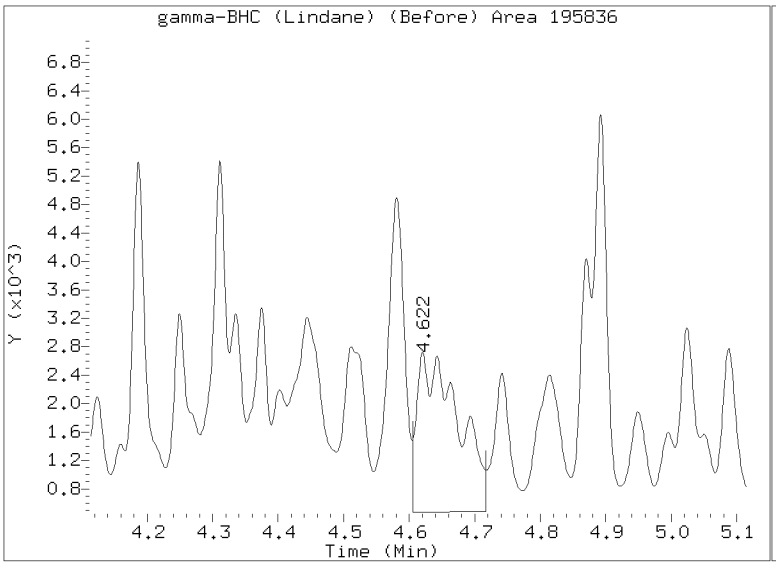

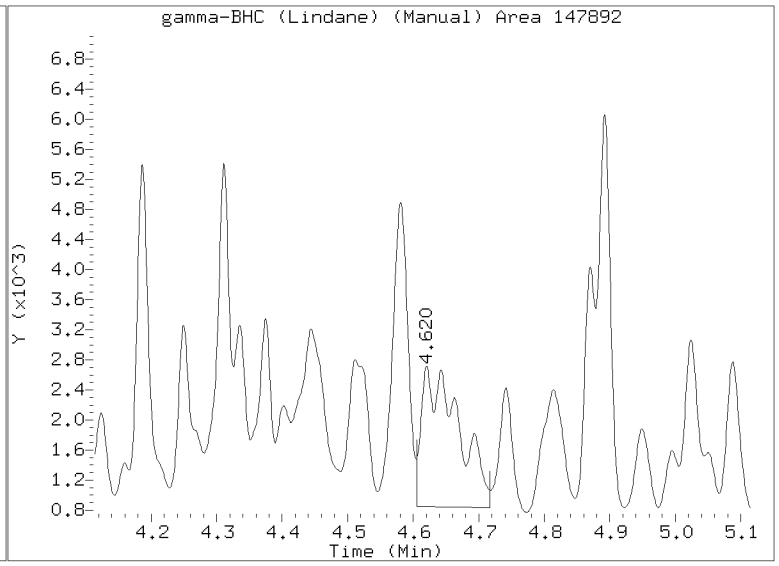

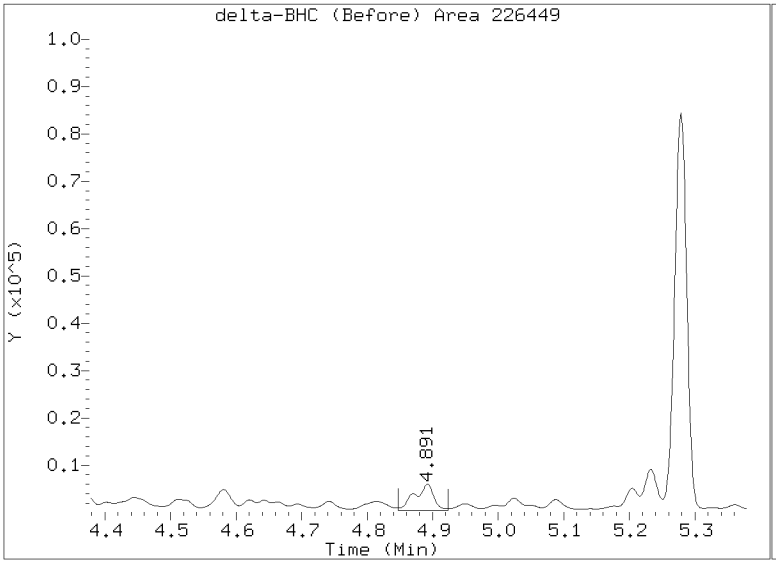

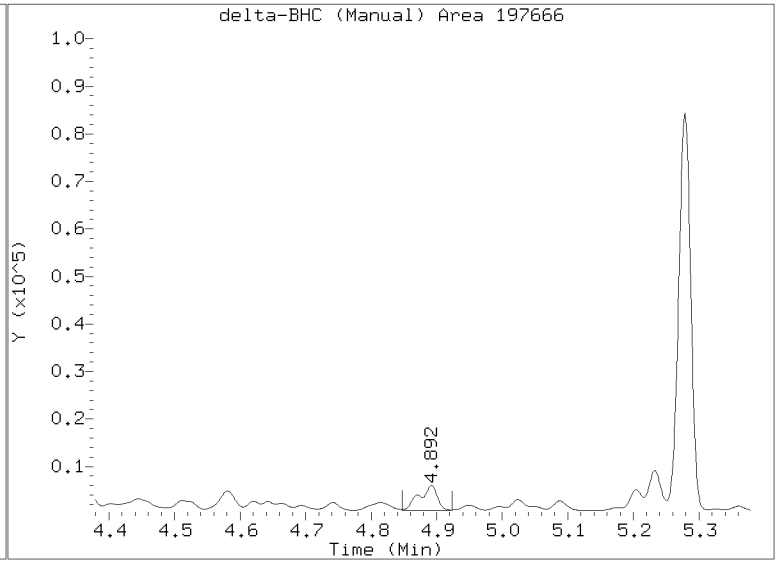

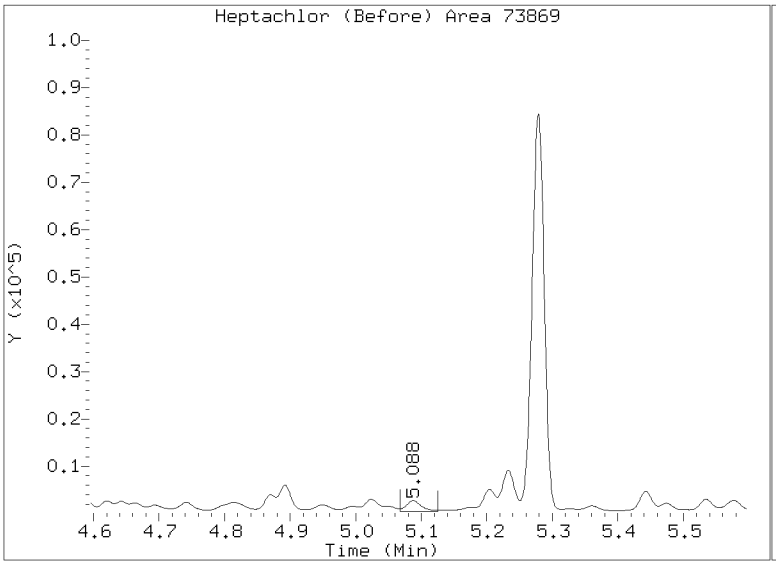

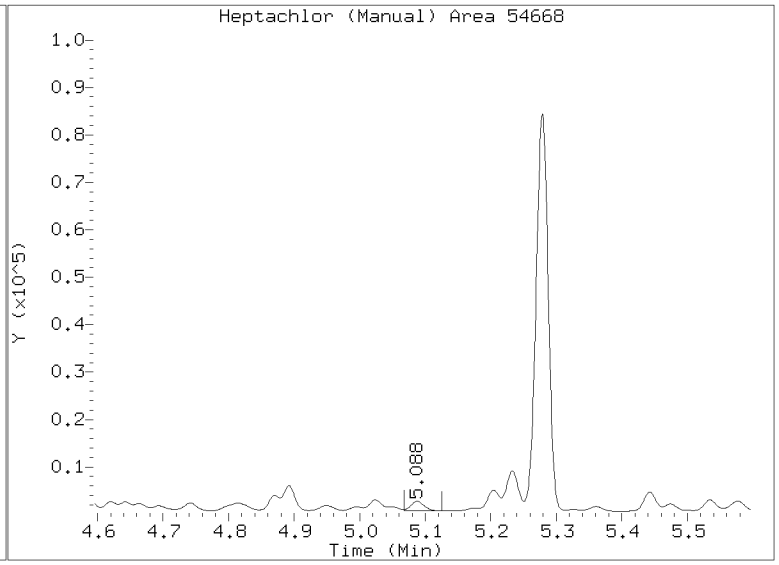

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Datafile: /20230120.b/23012020.D
Injection Date: 20-JAN-2023 22:38
Lab ID:22L0459-03 Client ID:
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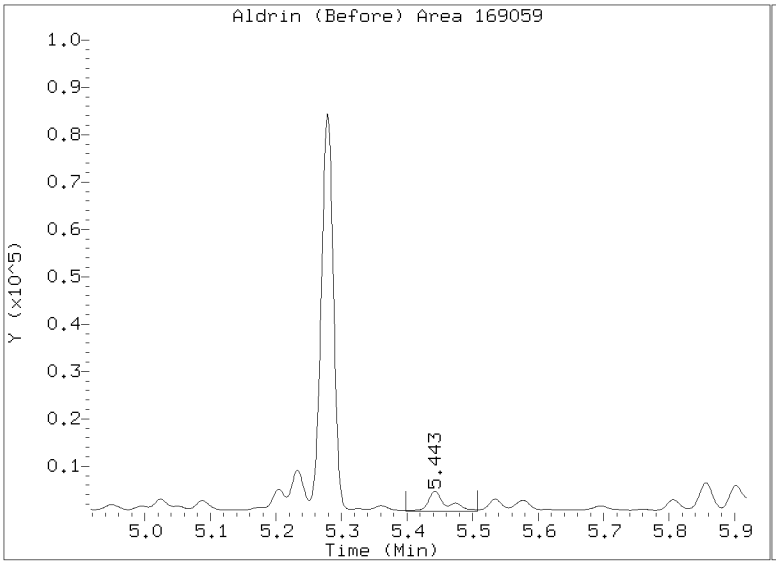

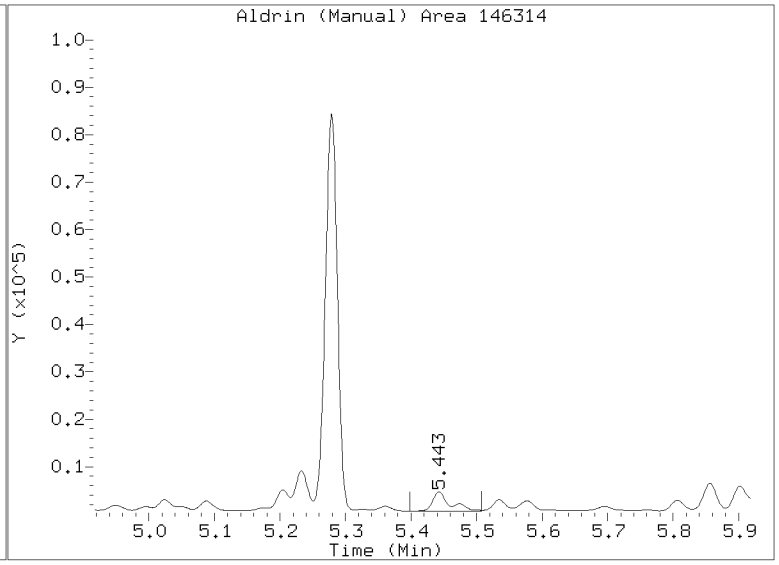

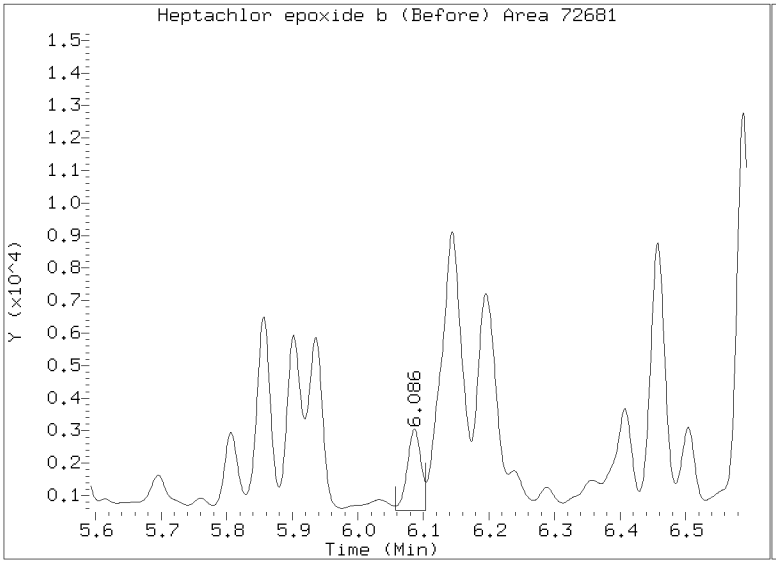

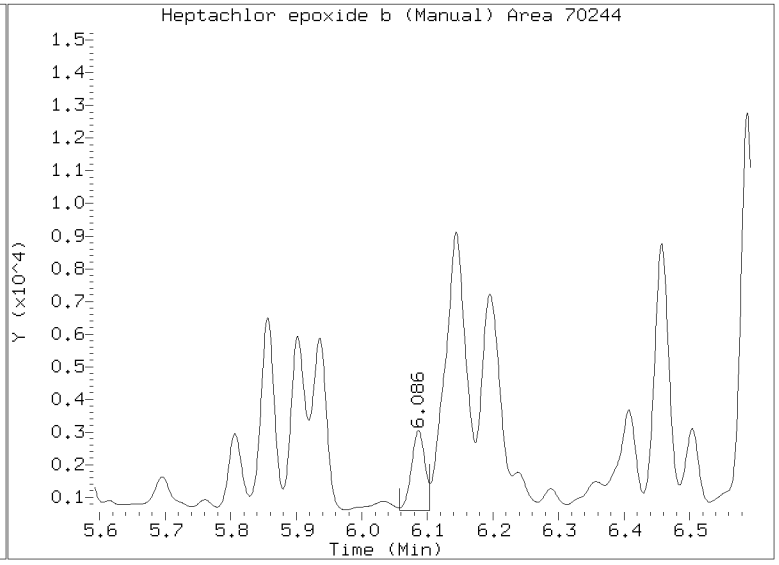

Manual Peak Adjustment Report, CLP-2

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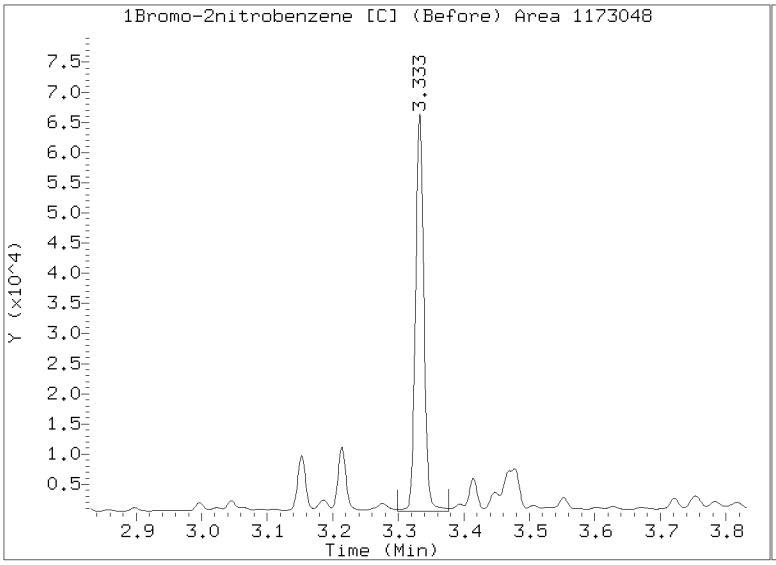
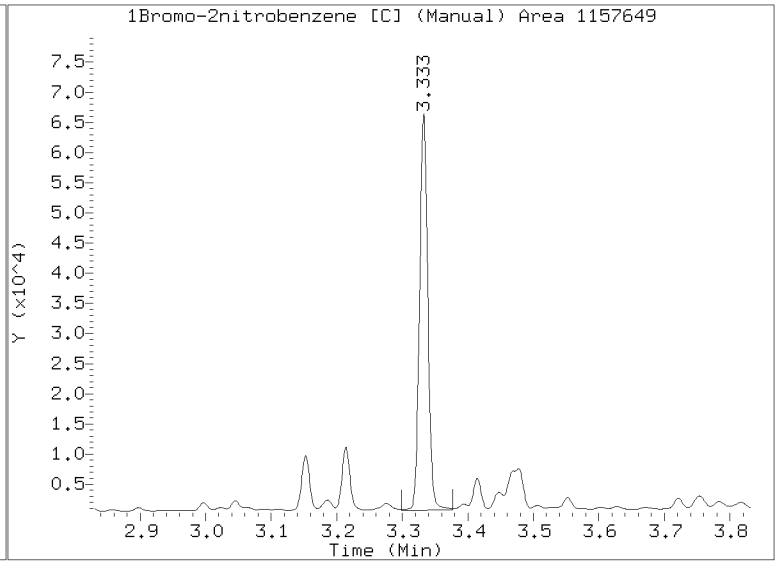
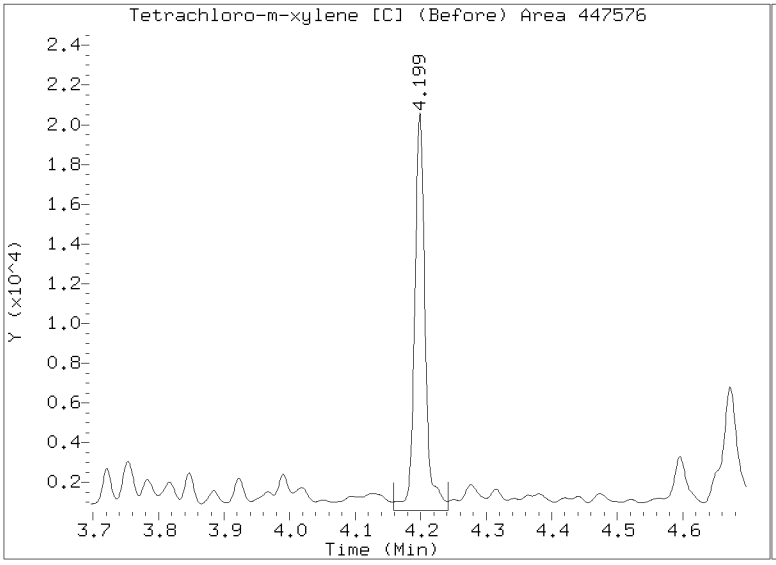
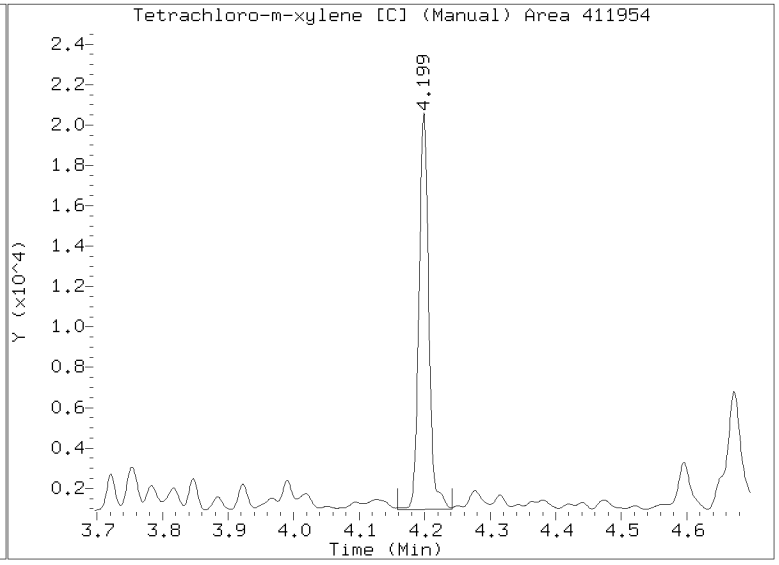
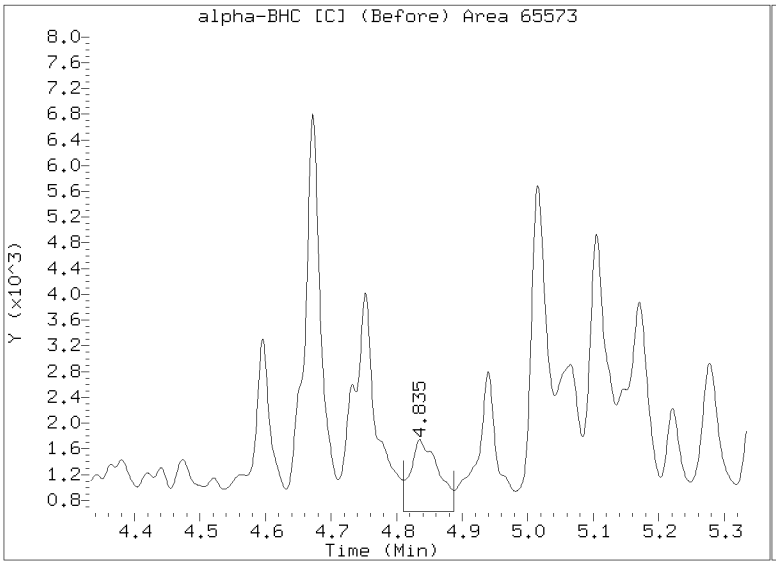
Injection Date: 20-JAN-2023 22:38
Lab ID:22L0459-03 Client ID:

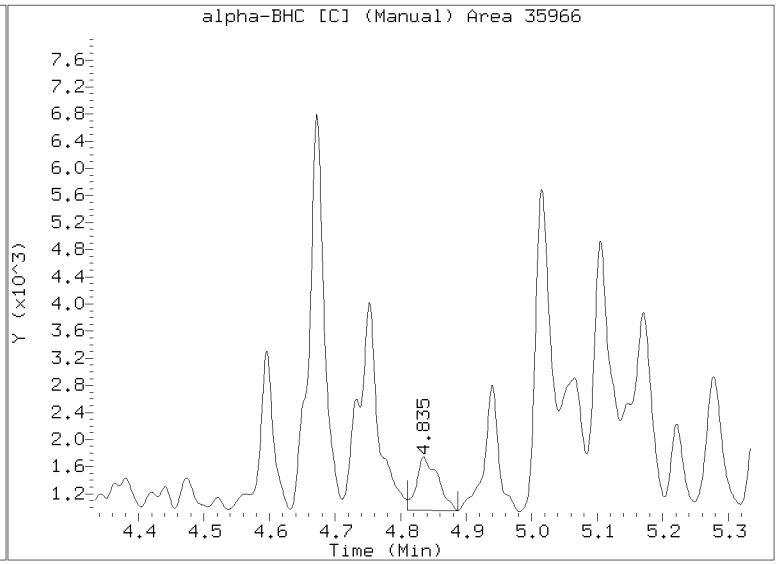












Manual Peak Adjustment Report, CLP-2

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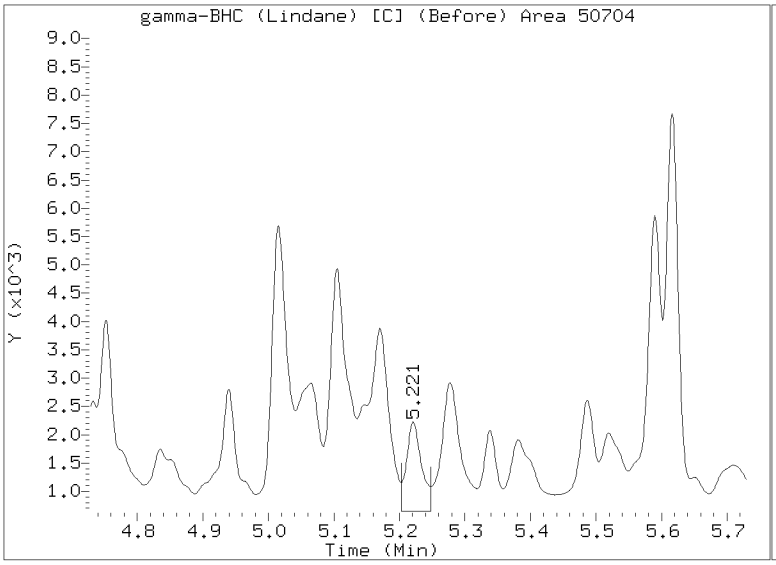
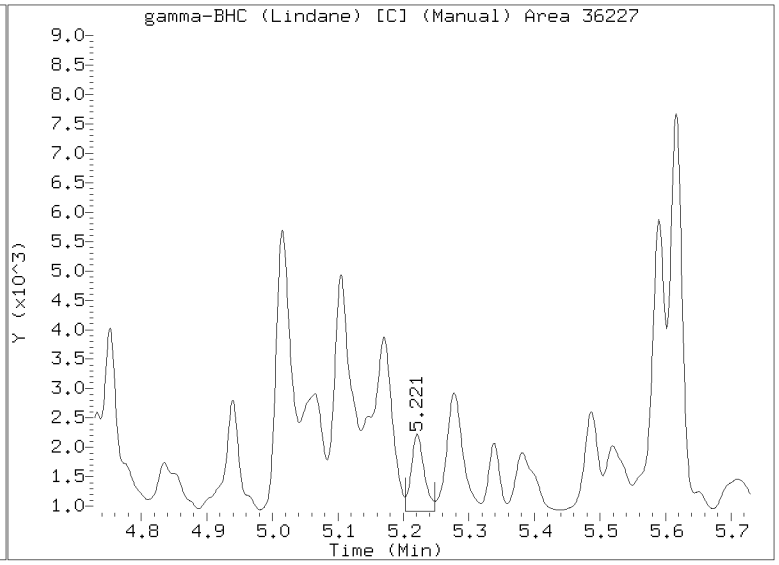
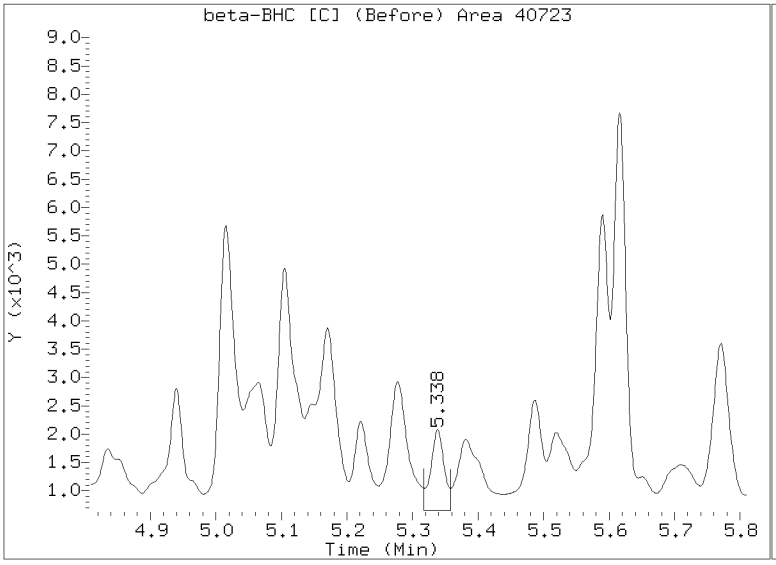
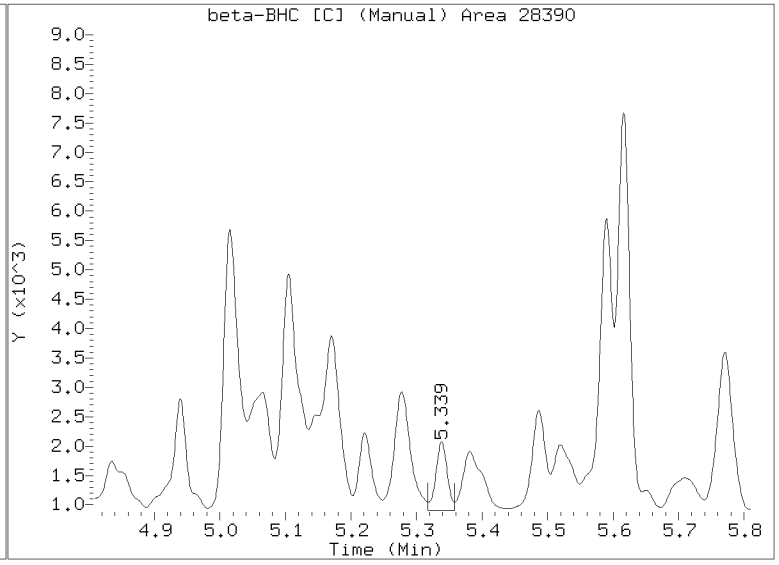
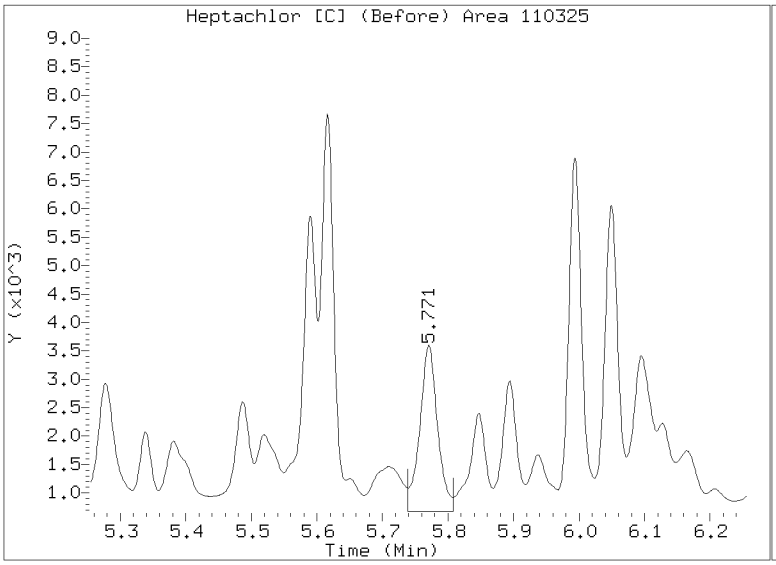
Lab ID:22L0459-03 Client ID:

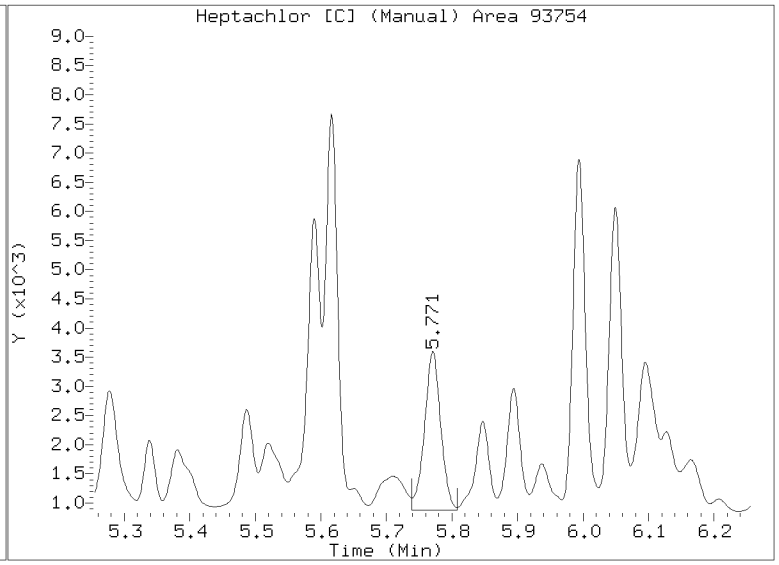






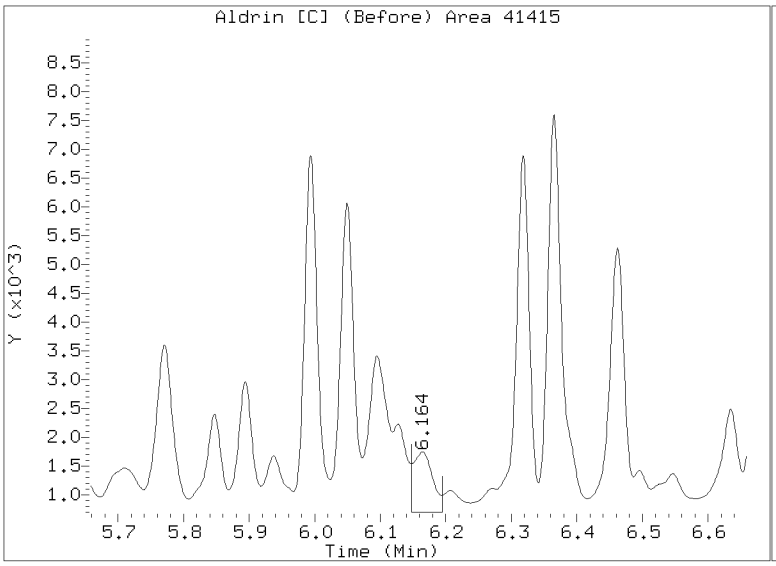


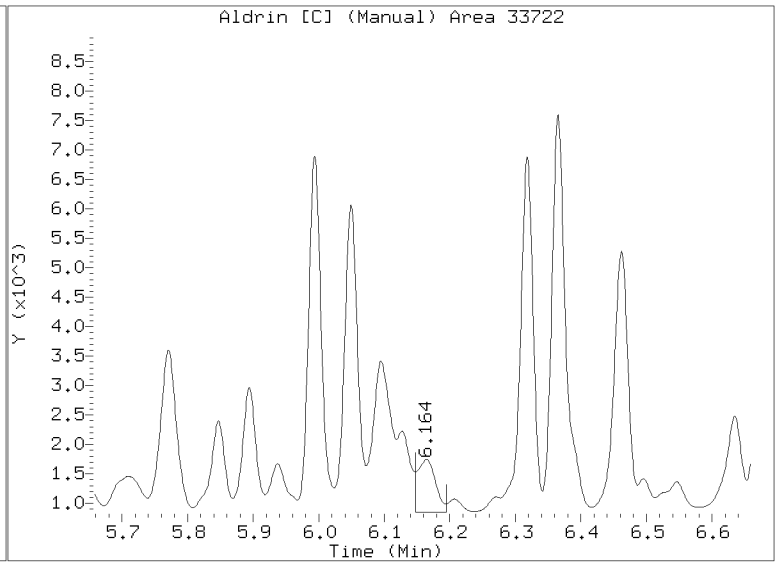




Manual Peak Adjustment Report, CLP-2

Datafile: /20230120.b/B20230120.b/23012020.D
Injection Date: 20-JAN-2023 22:38
Lab ID:22L0459-03 Client ID:





Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1007B

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-04 A	File ID:	23012021.D
Sampled:	12/16/22 10:43	Prepared:	01/05/23 15:38	Analyzed:	01/20/23 22:56
% Solids:	56.35	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.19 g Wet / 2.5 mL
Batch:	BLA0068	Sequence:	SLA0279	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9974*	*8.27*	*103*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9974*	*10.5*	*132*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9974*	*5.22*	*65.3*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9974*	*5.34*	*66.8*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012021.D
Data file 2: /20230120.b/B20230120.b/23012021.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 22L0459-04
Client ID:
Injection Date: 20-JAN-2023 22:56
Report Date: 01/24/2023 13:41
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.335	0.021	39048	4.834	0.000	12595	2.19	0.54	121.4*	alpha-BHC MN
----			5.339	0.029	237460	0.00	26.59	---	beta-BHC
4.893	0.014	112186	----			7.71	0.00	---	delta-BHC
4.638	0.023	123258	5.235	0.006	133857	7.98	6.72	17.2	gamma-BHC (Lindane) M
5.088	-0.008	1429003	5.771	0.015	571687	104.01	31.66	106.6*	Heptachlor M
5.441	0.023	46985	6.150	-0.009	274671	3.05	13.32	125.5*	Aldrin
6.086	-0.007	37061	6.798	-0.017	1930843	2.78	113.27	190.4*	Heptachlor epoxide b
----			7.246	-0.013	444509	0.00	29.59	---	Endosulfan I
6.782	-0.014	163790	7.537	-0.016	322078	12.44	19.40	43.7*	Dieldrin
6.455	0.000	150412	7.343	-0.000	279124	12.31	18.34	39.3	4,4'-DDE
7.076	0.030	353748	----			43.89	0.00	---	Endrin
7.260	-0.022	24659	8.100	0.012	171093	3.40	17.15	133.9*	Endosulfan II
----			7.949	0.000	188864	0.00	19.95	---	4,4'-DDD
8.134	-0.012	6872	----			1.00	0.00	---	Endosulfan sulfate
7.372	-0.023	317137	8.278	0.011	581096	43.22	63.61	38.2	4,4'-DDT
----			8.881	-0.028	400428	0.00	99.05	---	Methoxychlor
8.392	-0.027	73216	9.229	0.019	409322	9.28	43.27	129.4*	Endrin ketone
7.739	0.028	94216	8.416	-0.003	210578	16.28	29.93	59.1*	Endrin aldehyde
6.239	0.005	30697	----			2.26	0.00	---	trans-Chlordane
6.404	0.023	117426	7.185	-0.001	626142	8.63	37.65	125.4*	cis-Chlordane
2.285	-0.023	22409	2.458	-0.028	82490	1.20	3.70	101.9*	Hexachlorobutadiene
----			4.695	0.002	87828	0.00	4.11	---	Hexachlorobenzene
3.806	0.002	328754	4.198	0.001	440523	26.13	26.70	2.2	Tetrachloro-m-xylene MN
9.330	0.007	257543	10.433	0.002	397921	41.35	52.61	24.0	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

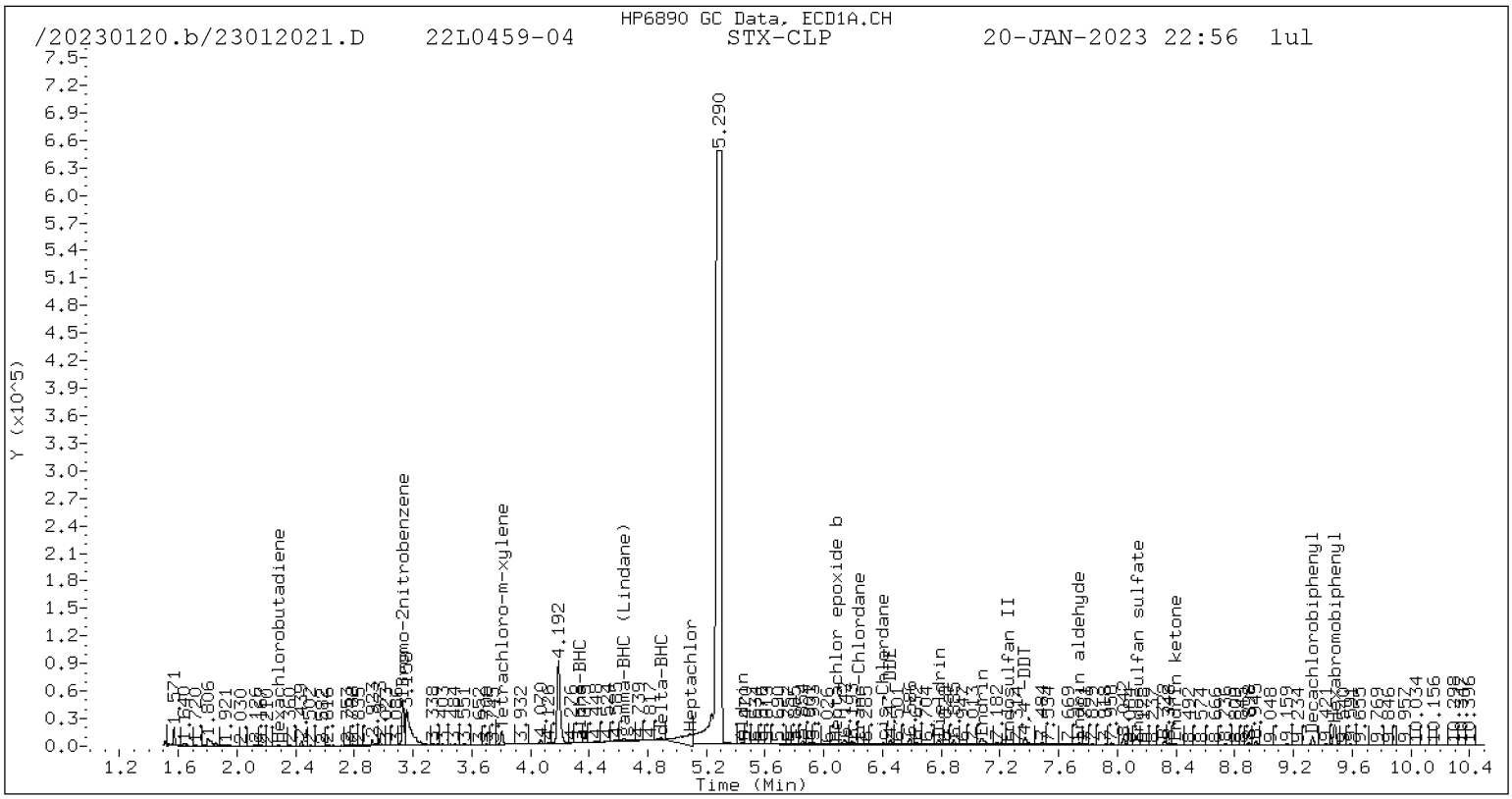
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	925099	37.6
Hexabromobiphenyl	609723	614745	0.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1171907	16.4
Hexabromobiphenyl	769764	684369	-11.1

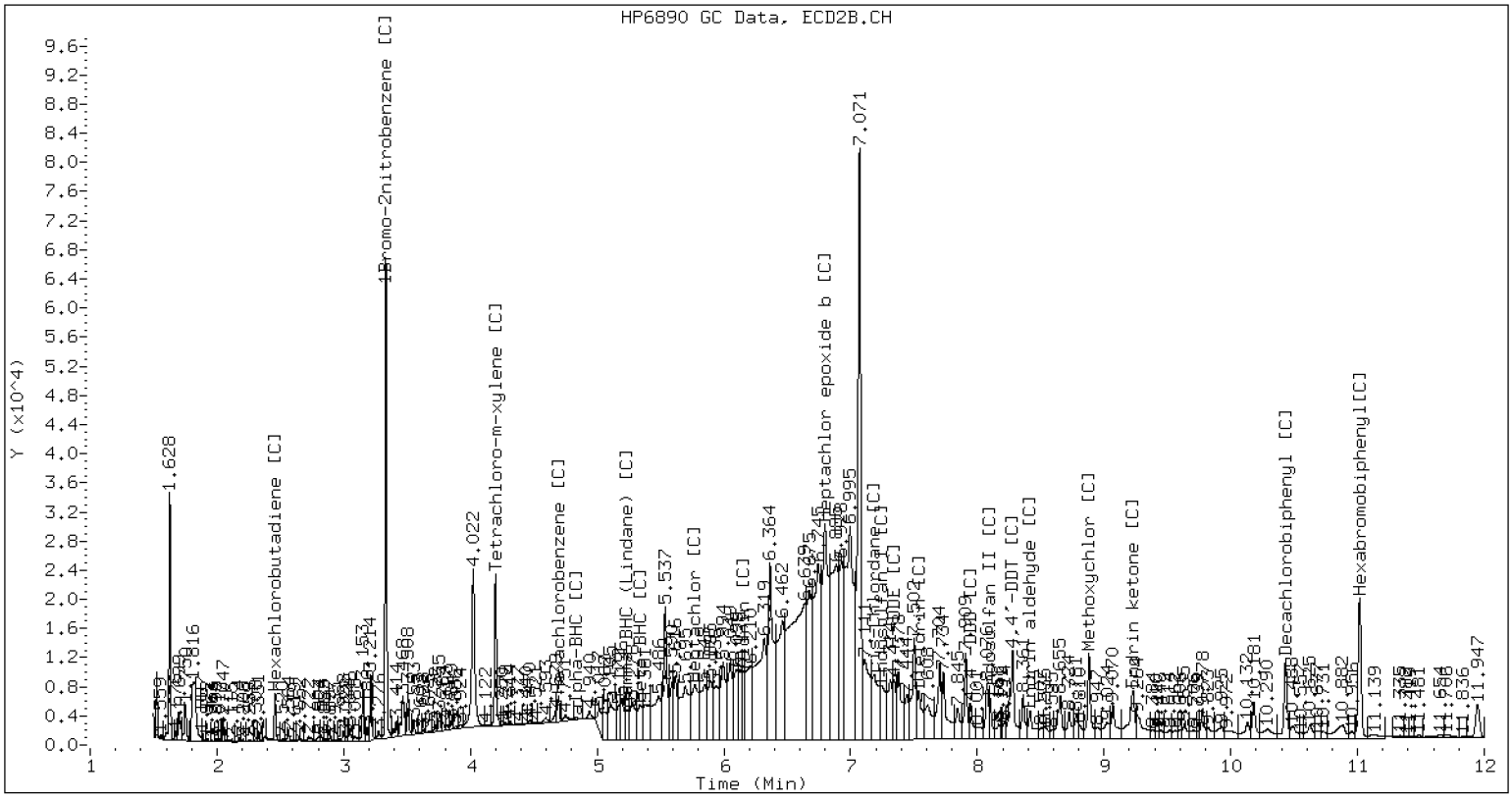
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

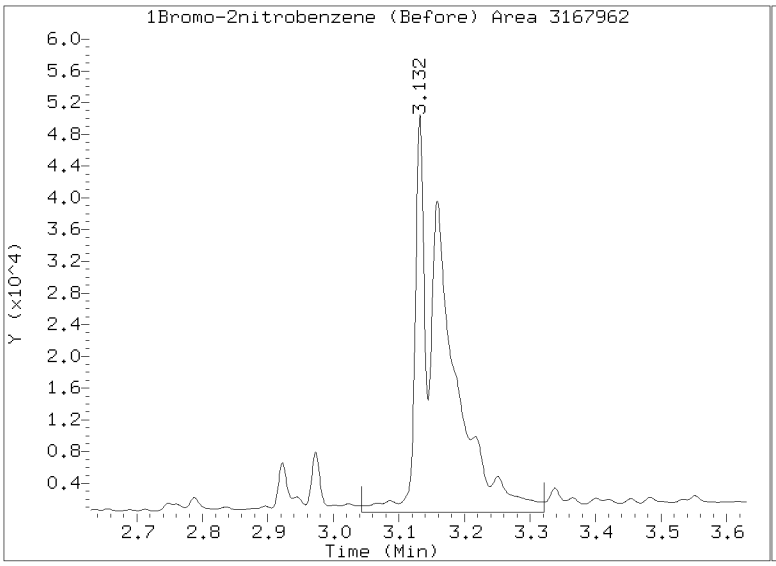
/20230120.b/B20230120.b/23012021.D 22L0459-04 CLP2

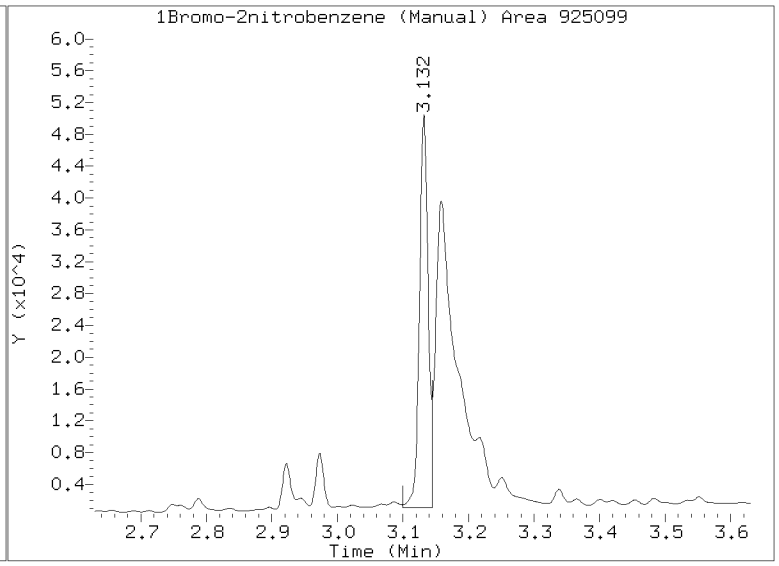


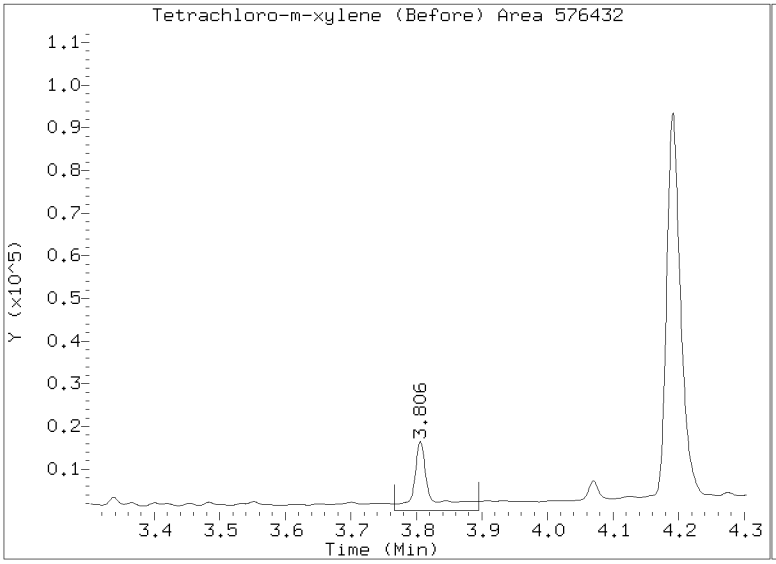
CLP-2 Manual Integration: YES

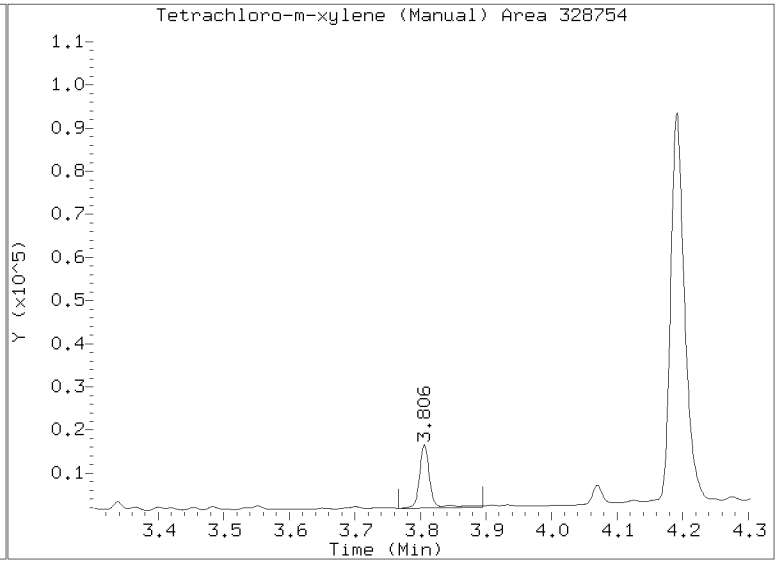
Manual Peak Adjustment Report, STX-CLP

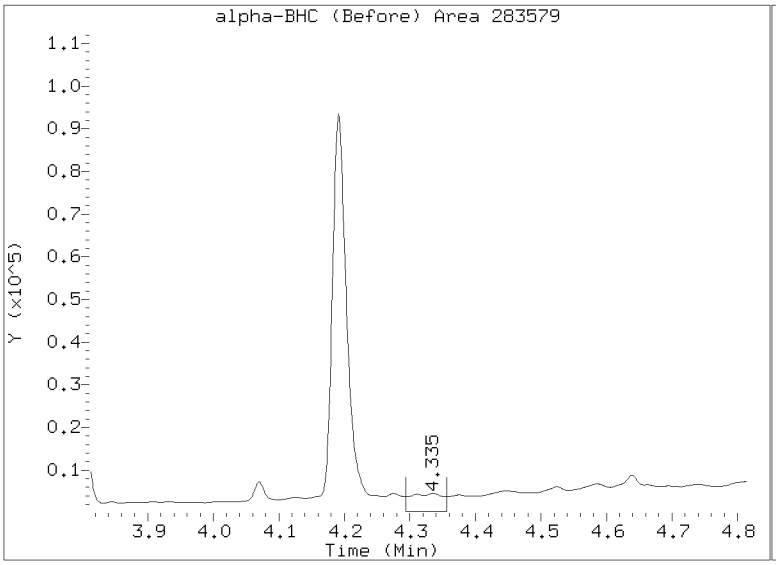
Datafile: /20230120.b/23012021.D
Injection Date: 20-JAN-2023 22:56
Lab ID:22L0459-04 Client ID:
Report Date: 01/24/2023 13:41

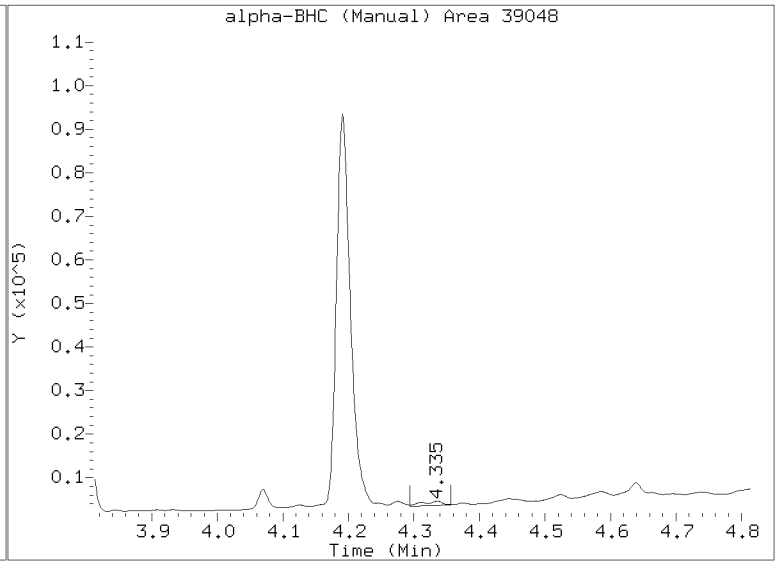






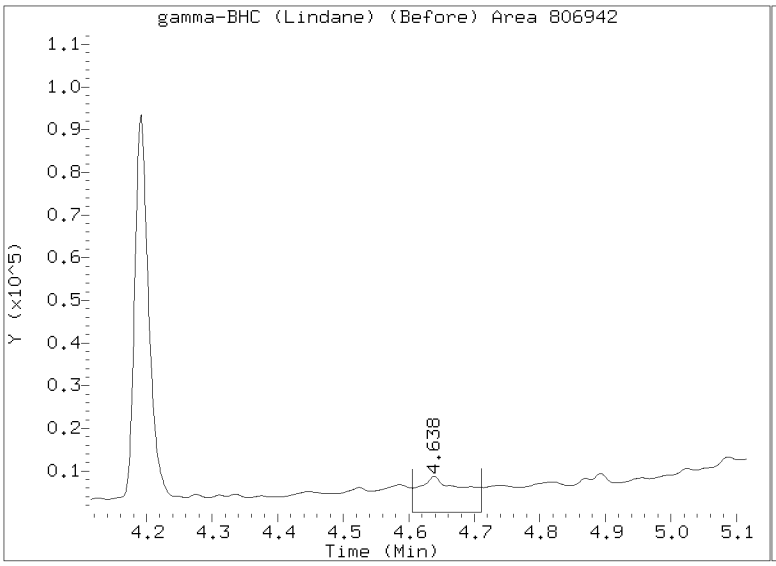


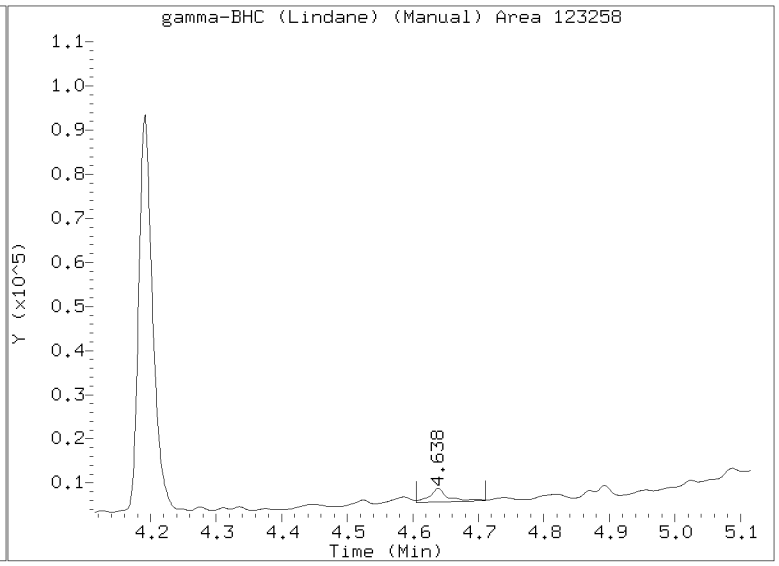


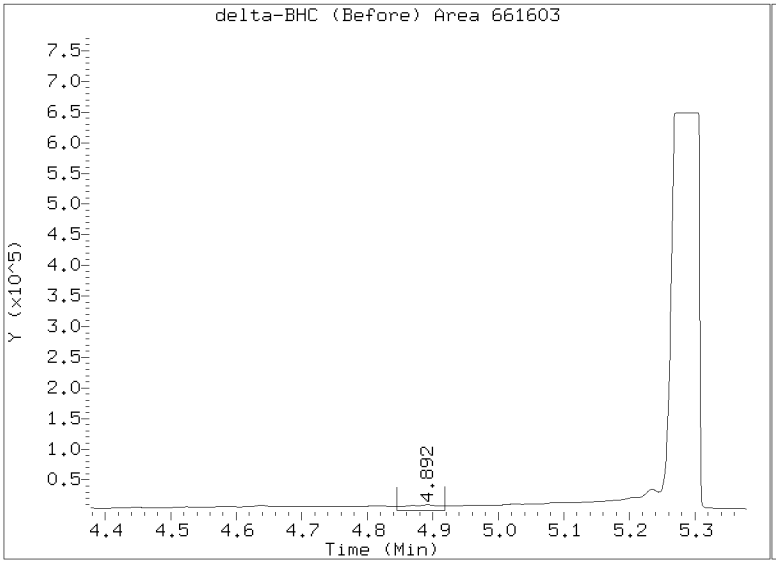


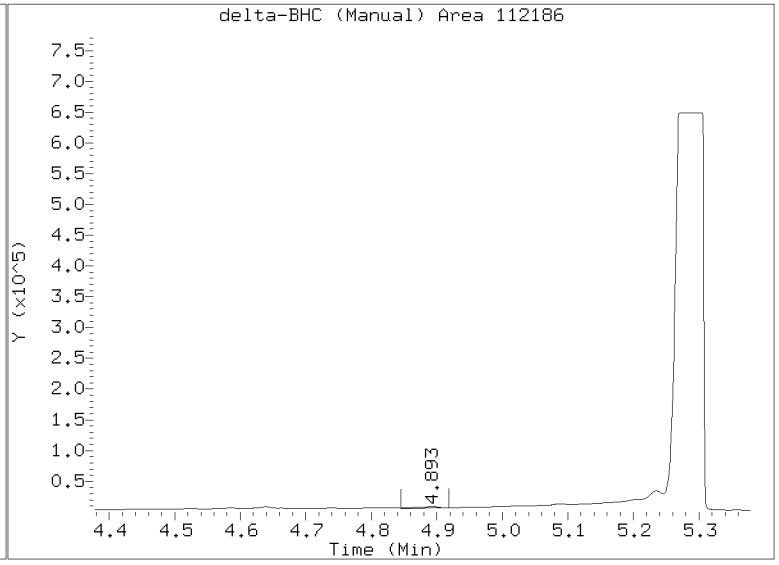
Manual Peak Adjustment Report, STX-CLP

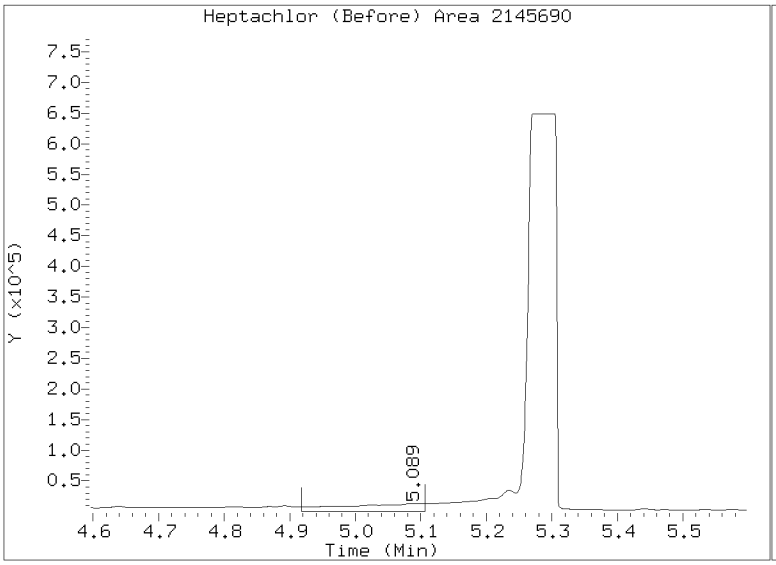
Datafile: /20230120.b/23012021.D
Injection Date: 20-JAN-2023 22:56
Lab ID:22L0459-04 Client ID:
Report Date: 01/24/2023 13:41

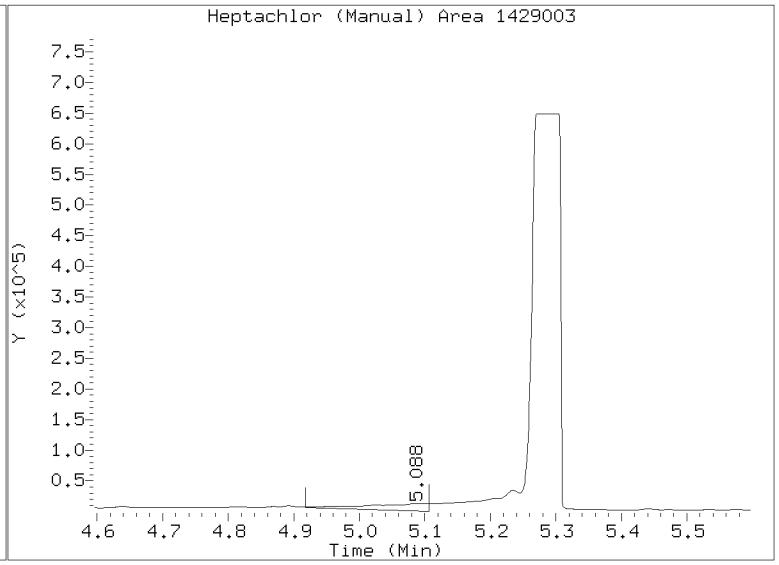












Manual Peak Adjustment Report, CLP-2

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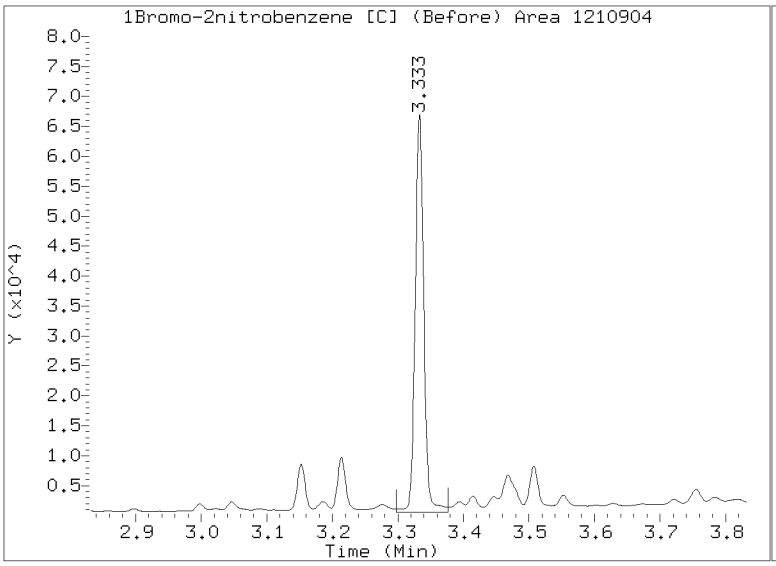
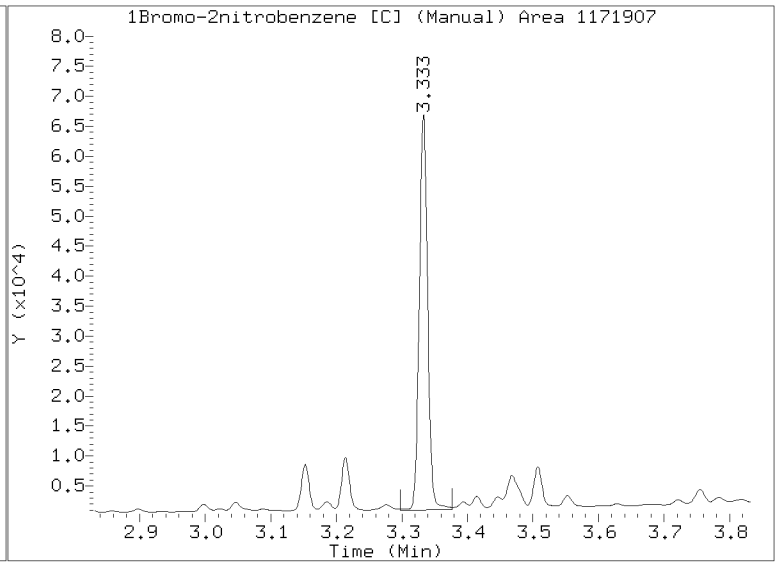
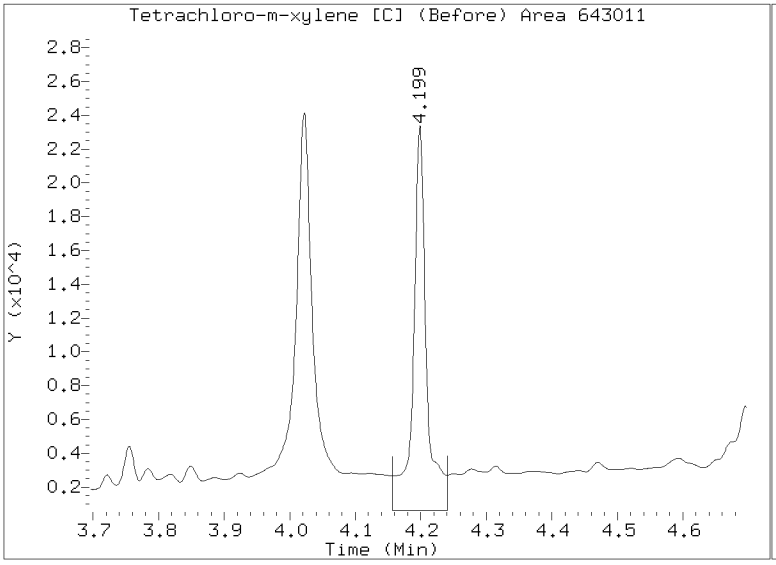
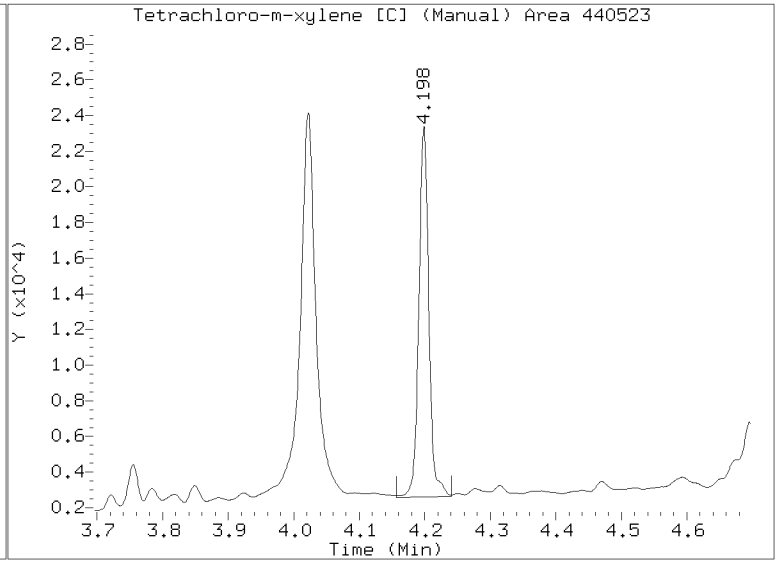
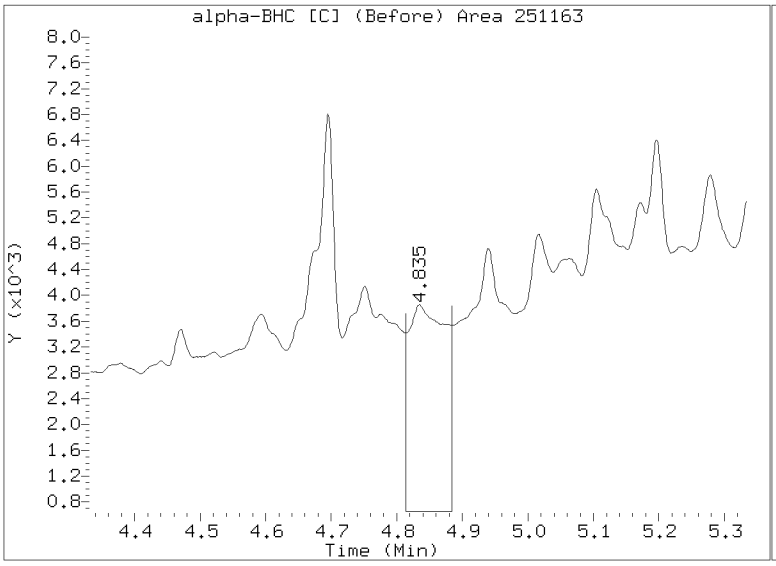
Lab ID:22L0459-04 Client ID:

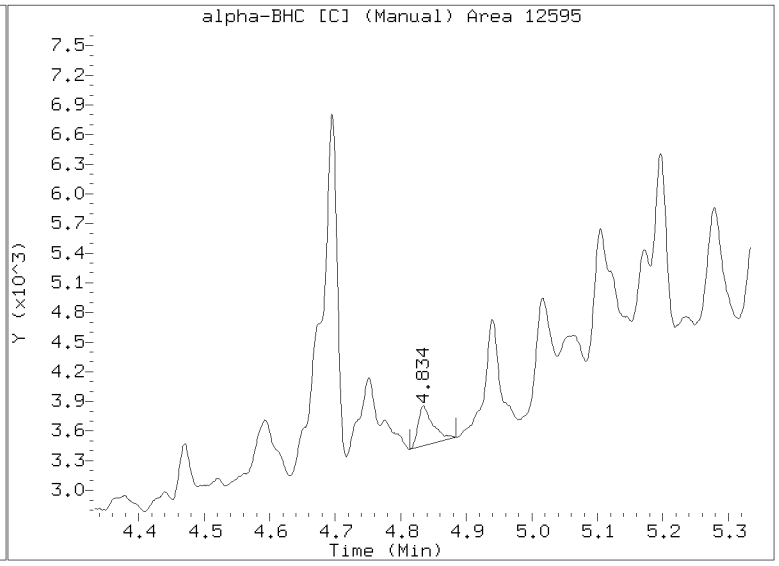












Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1002C

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-05 A	File ID:	23012022.D
Sampled:	12/16/22 11:20	Prepared:	01/05/23 15:38	Analyzed:	01/20/23 23:13
% Solids:	54.59	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.92 g Wet / 2.5 mL
Batch:	BLA0068	Sequence:	SLA0279	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9923*	*8.42*	*105*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9923*	*10.8*	*136*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9923*	*5.91*	*74.0*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9923*	*5.56*	*69.5*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012022.D
Data file 2: /20230120.b/B20230120.b/23012022.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 22L0459-05
Client ID:
Injection Date: 20-JAN-2023 23:13
Report Date: 01/24/2023 13:41
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.311	-0.002	94111	4.836	0.002	40490	5.81	1.69	110.1*	alpha-BHC MN
----			5.339	0.029	434340	0.00	47.58	---	beta-BHC
4.892	0.014	381355	----			28.82	0.00	---	delta-BHC
----			5.223	-0.007	333421	0.00	16.36	---	gamma-BHC (Lindane)
5.089	-0.008	2448648	5.771	0.015	2108871	196.06	114.26	52.7*	Heptachlor M
5.442	0.024	249669	----			17.84	0.00	---	Aldrin
6.086	-0.007	69133	6.799	-0.016	4424447	5.70	253.90	191.2*	Heptachlor epoxide b
----			7.247	-0.012	671545	0.00	43.72	---	Endosulfan I
6.782	-0.013	271991	7.536	-0.016	488343	22.73	28.78	23.5	Dieldrin
6.456	0.002	275899	----			24.84	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
7.262	-0.020	43518	8.077	-0.011	703027	6.02	72.51	169.3*	Endosulfan II
7.077	-0.026	612554	7.950	0.001	468441	84.72	50.91	49.9*	4,4'-DDD
8.132	-0.013	12205	----			1.78	0.00	---	Endosulfan sulfate
7.373	-0.022	535058	8.278	0.011	1031734	73.24	116.18	45.3*	4,4'-DDT
----			8.882	-0.027	532705	0.00	135.55	---	Methoxychlor
8.392	-0.027	92590	9.229	0.019	807824	11.78	87.85	152.7*	Endrin ketone
7.740	0.029	139185	8.412	-0.007	340539	24.16	49.79	69.3*	Endrin aldehyde
6.237	0.003	39071	----			3.17	0.00	---	trans-Chlordane
6.406	0.025	198578	----			16.06	0.00	---	cis-Chlordane
2.286	-0.021	32532	2.457	-0.029	86358	1.92	3.79	65.5*	Hexachlorobutadiene
----			----			0.00	0.00	---	Hexachlorobenzene
3.806	0.002	338418	4.198	0.000	469021	29.59	27.81	6.2	Tetrachloro-m-xylene MN
9.331	0.008	261434	10.434	0.003	398653	42.15	54.22	25.0	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

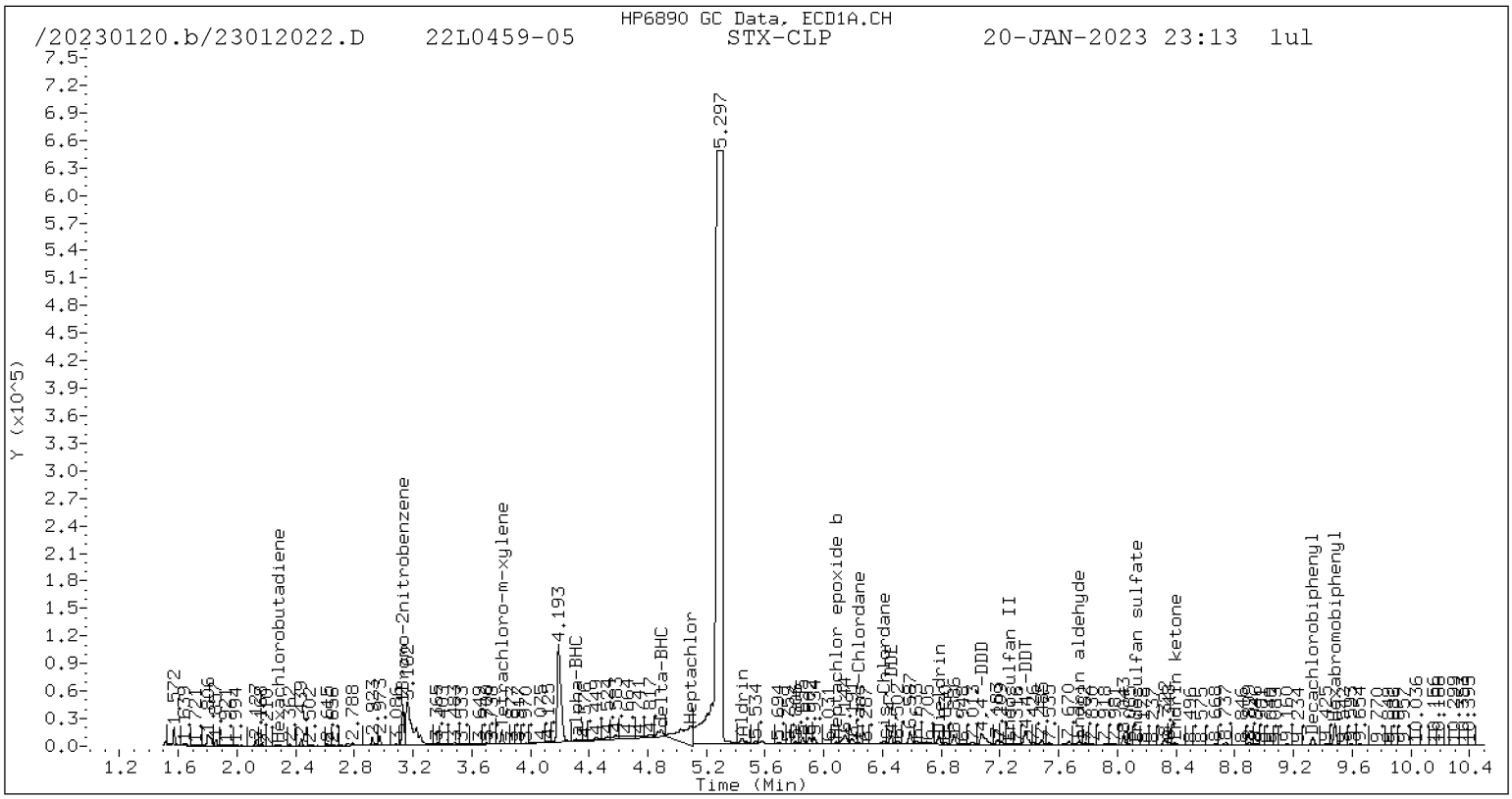
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	840915	25.1
Hexabromobiphenyl	609723	612120	0.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1198010	19.0
Hexabromobiphenyl	769764	665261	-13.6

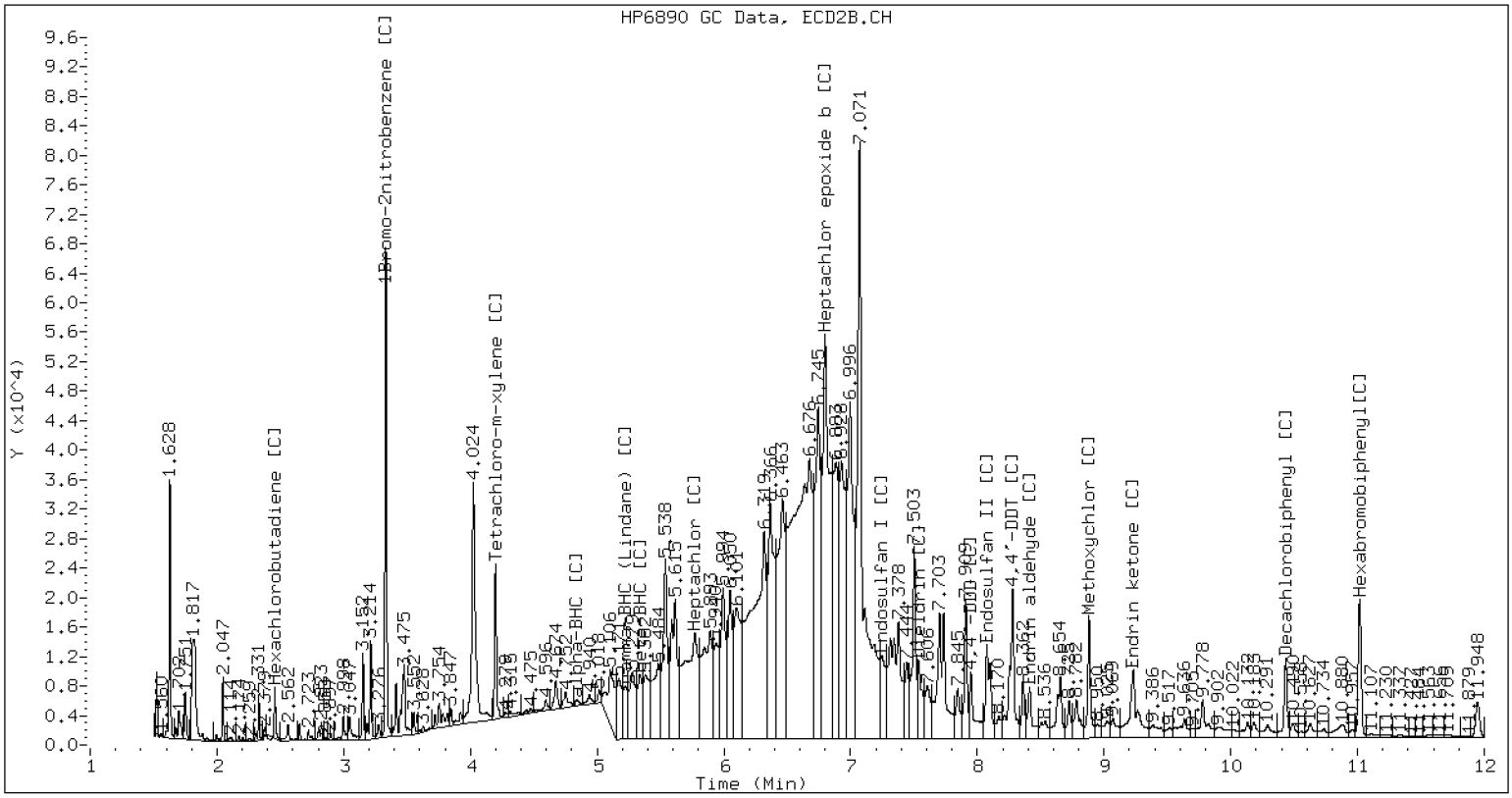
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

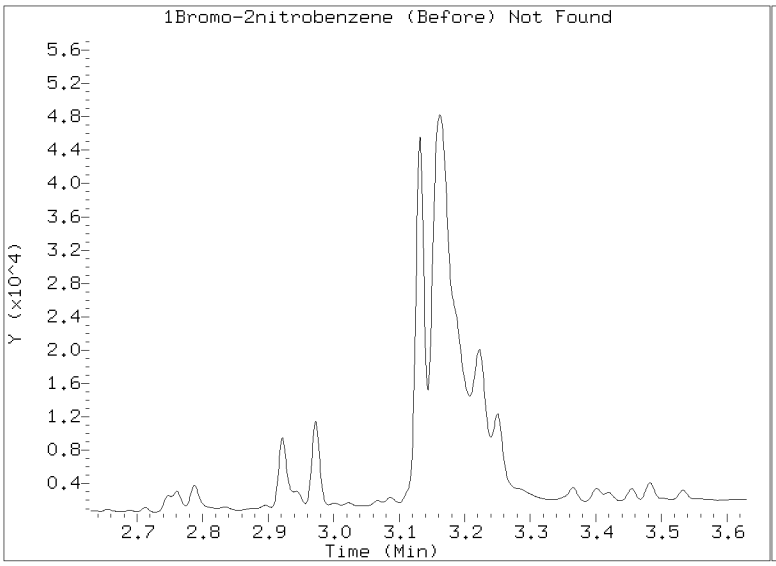
/20230120.b/B20230120.b/23012022.D 22L0459-05 CLP2

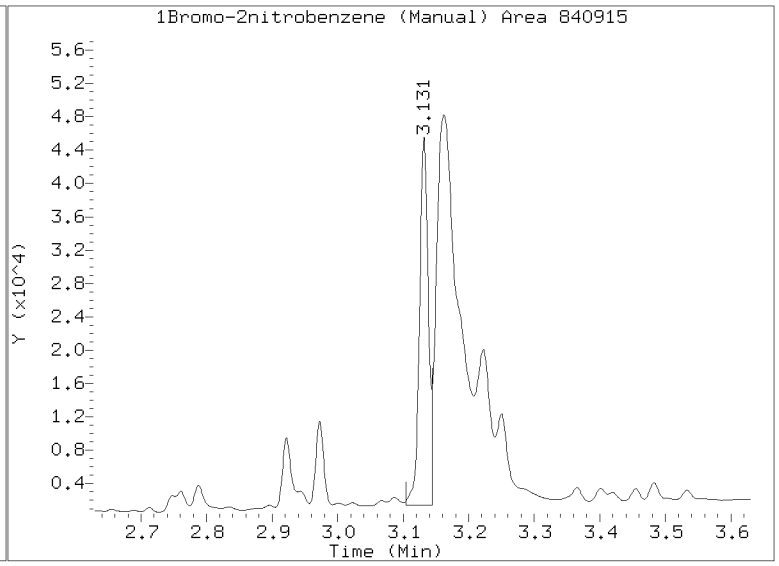


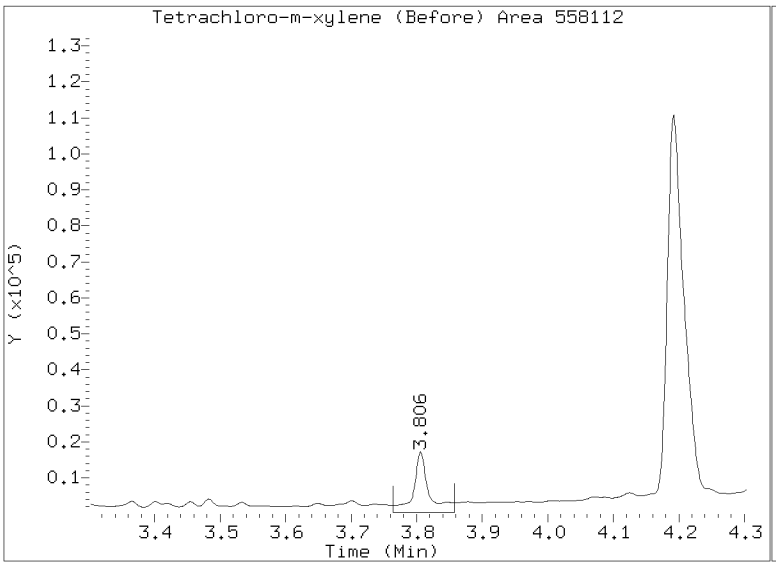
CLP-2 Manual Integration: YES

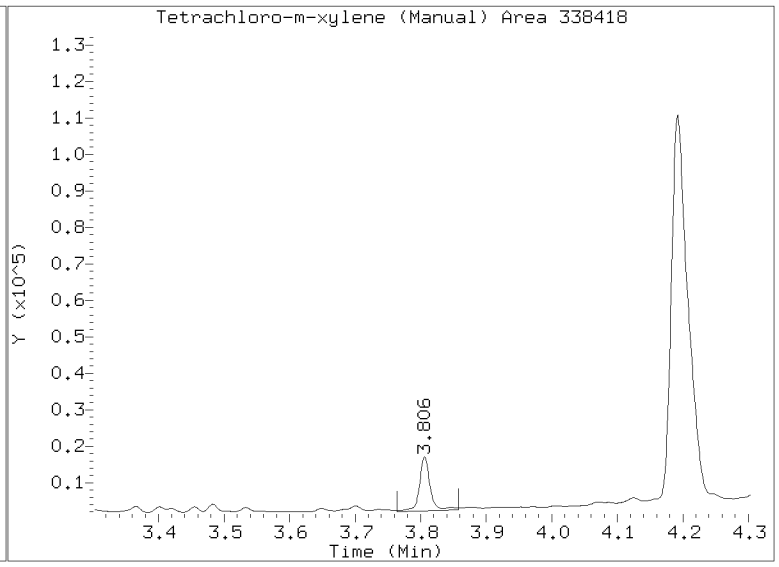
Manual Peak Adjustment Report, STX-CLP

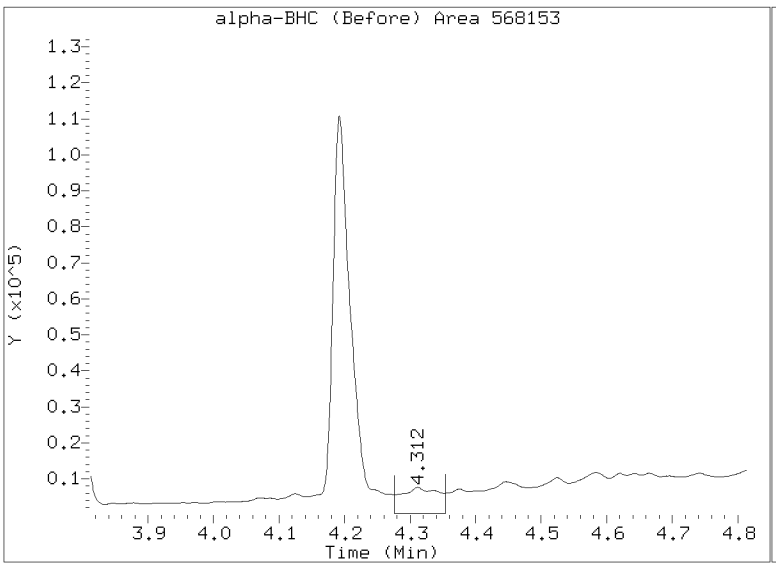
Datafile: /20230120.b/23012022.D
Injection Date: 20-JAN-2023 23:13
Lab ID:22L0459-05 Client ID:
Report Date: 01/24/2023 13:41

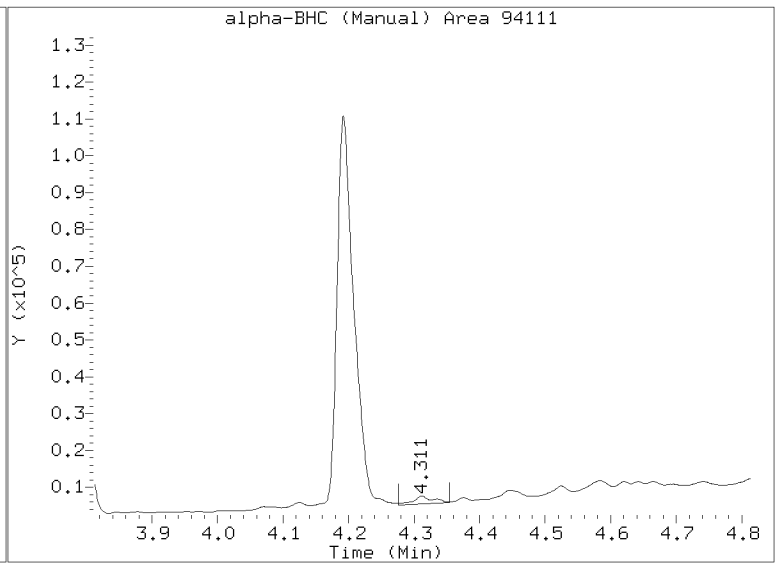






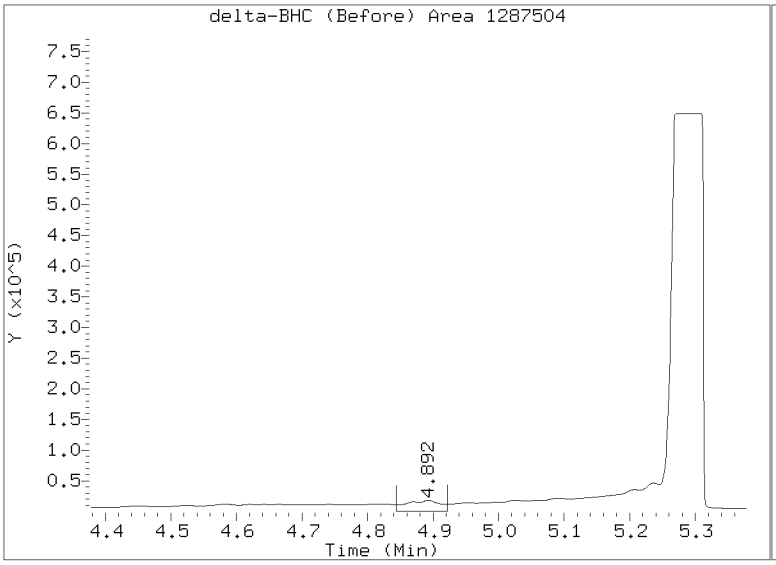


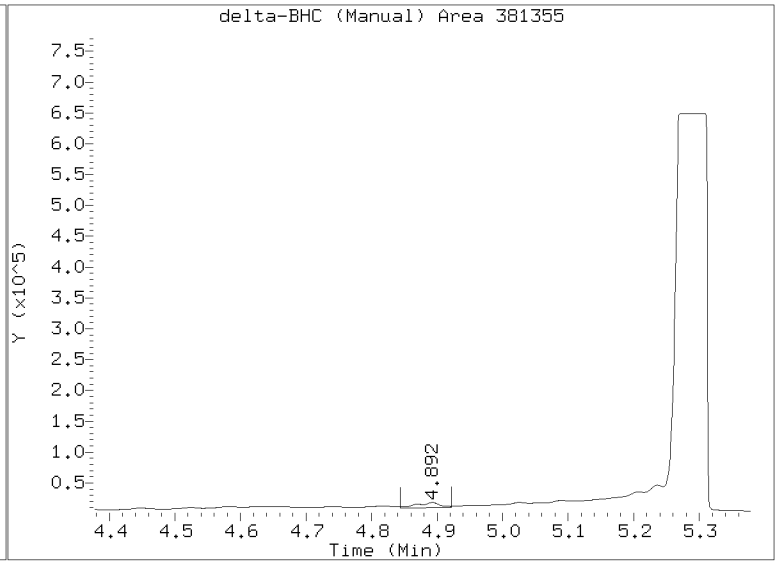


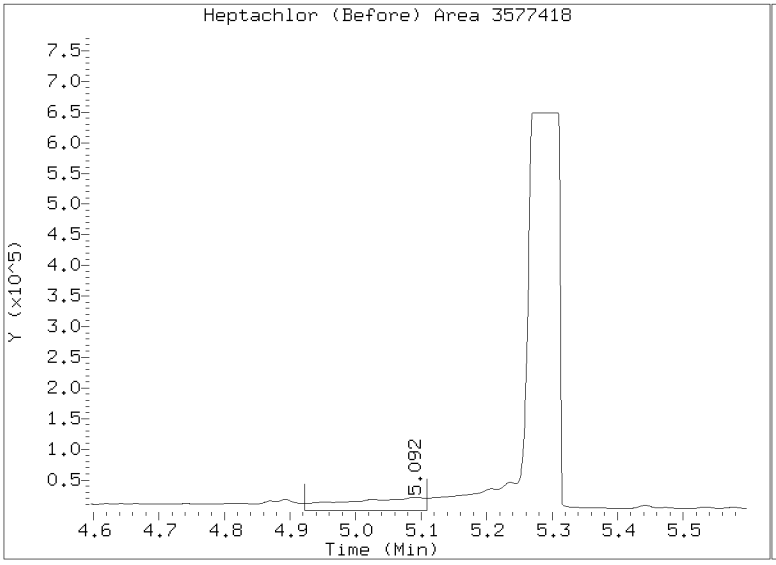


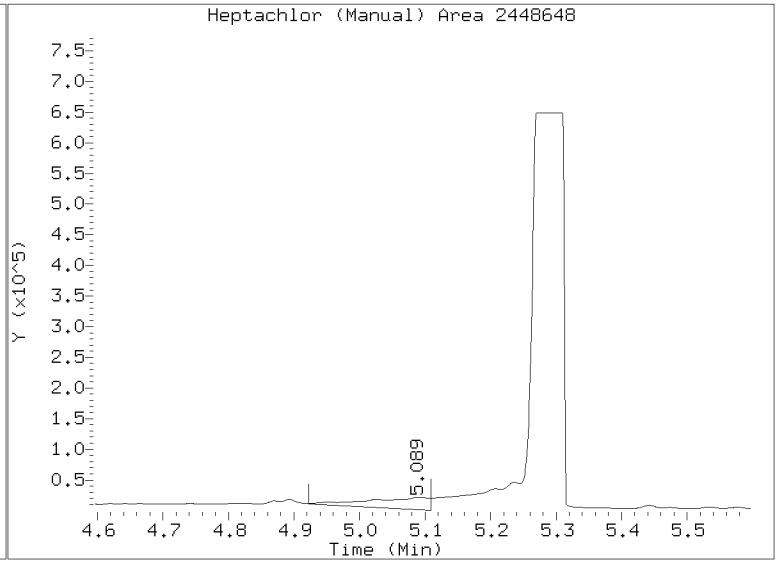
Manual Peak Adjustment Report, STX-CLP

Datafile: /20230120.b/23012022.D
Injection Date: 20-JAN-2023 23:13
Lab ID:22L0459-05 Client ID:
Report Date: 01/24/2023 13:41



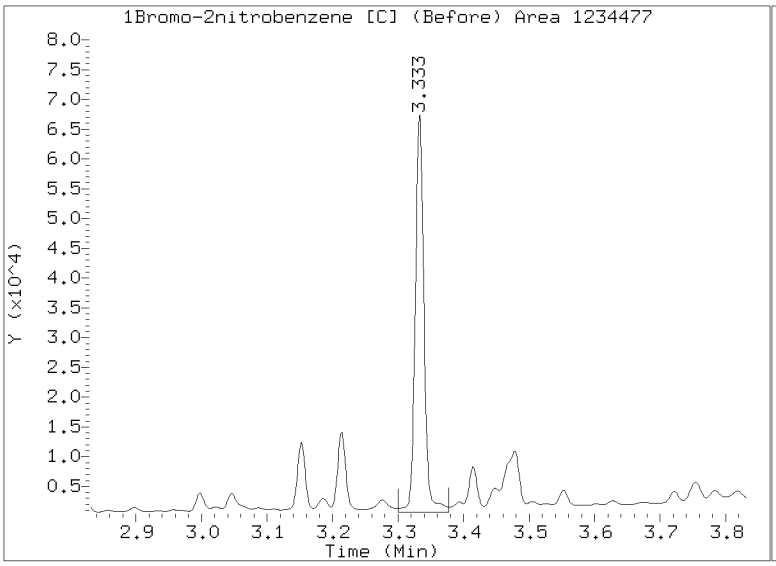


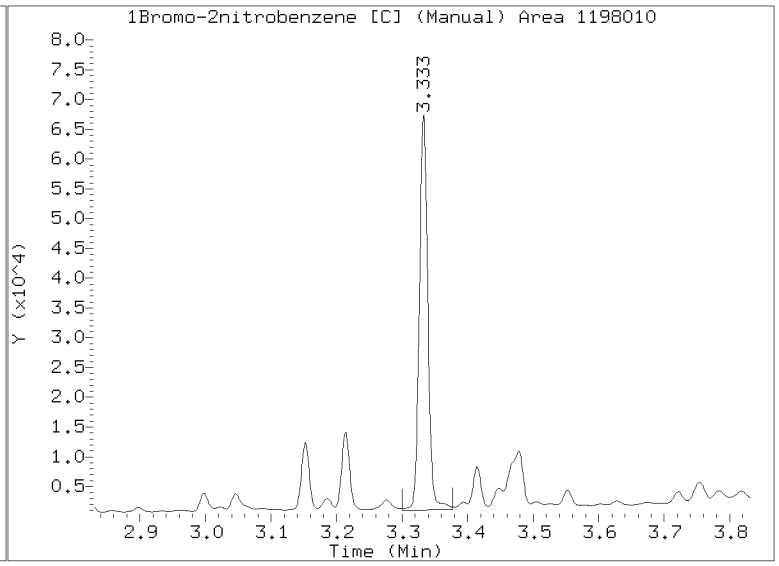


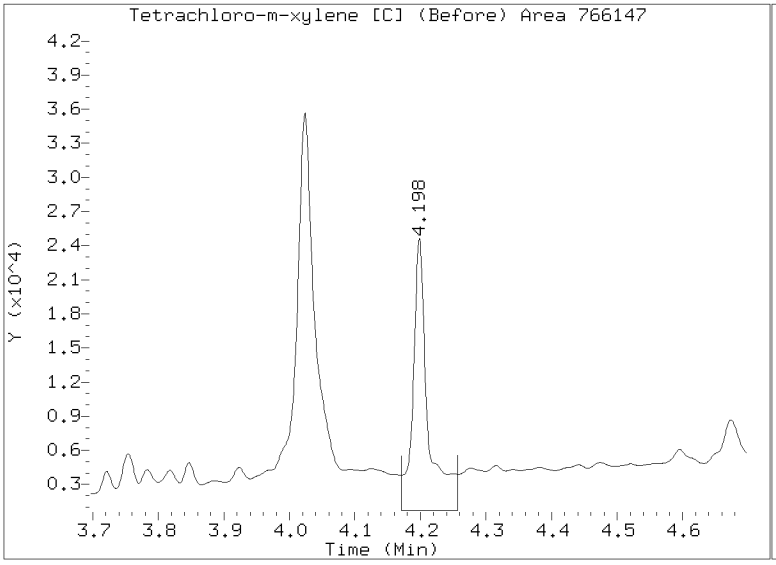


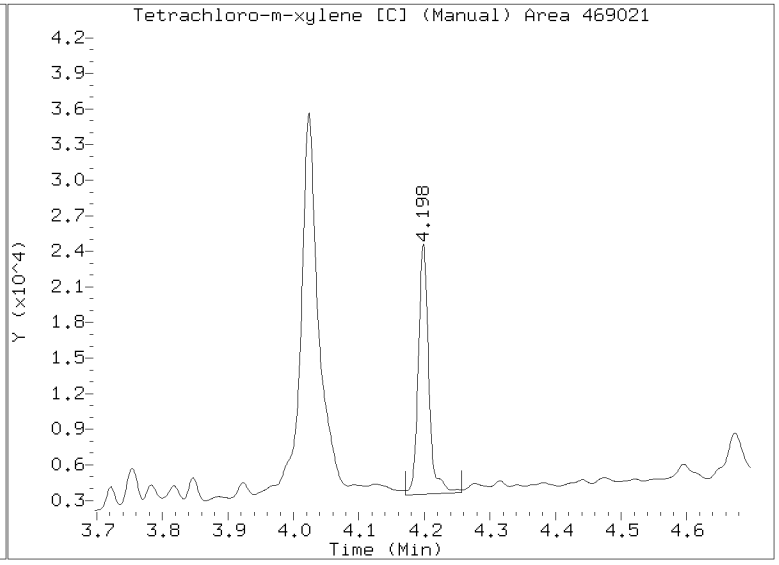
Manual Peak Adjustment Report, CLP-2

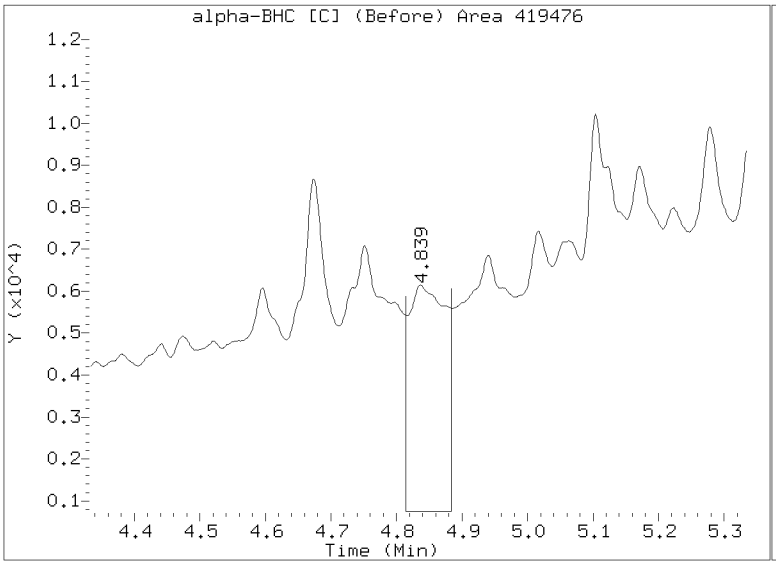
Datafile: /20230120.b/B20230120.b/23012022.D
Injection Date: 20-JAN-2023 23:13
Lab ID:22L0459-05 Client ID:

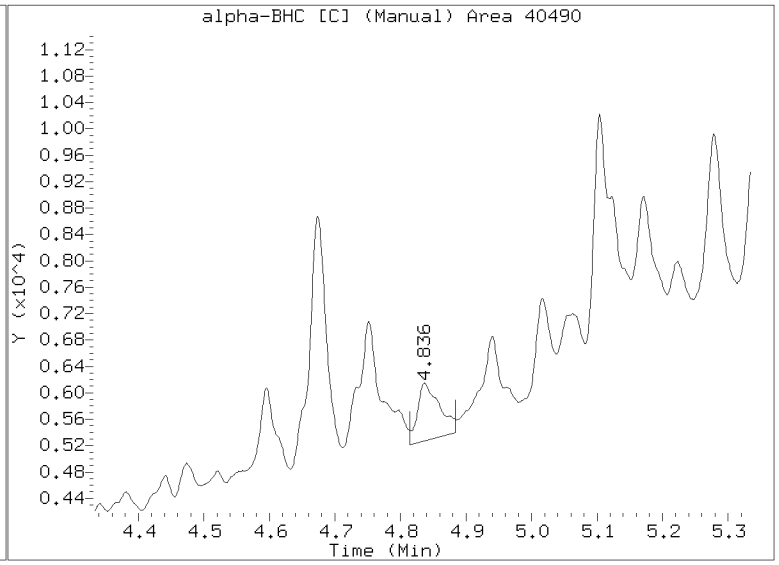












Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1070B

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-06 A	File ID:	23012023.D
Sampled:	12/16/22 12:01	Prepared:	01/05/23 15:38	Analyzed:	01/20/23 23:31
% Solids:	52.36	Preparation:	EPA 3546 (Microwave)	Initial/Final:	23.91 g Wet / 2.5 mL
Batch:	BLA0068	Sequence:	SLA0279	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9877*	*8.99*	*113*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9877*	*5.67*	*71.0*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012023.D
Data file 2: /20230120.b/B20230120.b/23012023.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 22L0459-06
Client ID:
Injection Date: 20-JAN-2023 23:31
Report Date: 01/24/2023 13:41
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.312	-0.001	12735	4.857	0.023	33689	0.74	1.48	66.0*	alpha-BHC MN
----			5.340	0.030	960371	0.00	110.71	---	beta-BHC
4.895	0.016	2161626	----			154.44	0.00	---	delta-BHC
4.620	0.005	865232	5.231	0.002	666170	58.27	34.40	51.5*	gamma-BHC (Lindane) M
5.092	-0.005	2094280	5.777	0.022	2846903	158.52	162.30	2.4	Heptachlor
5.444	0.026	1938095	----			130.90	0.00	---	Aldrin
6.090	-0.003	658897	6.802	-0.013	9991596	51.33	603.33	168.6*	Heptachlor epoxide b
6.506	-0.029	532795	7.251	-0.008	1269748	45.22	86.99	63.2*	Endosulfan I
6.785	-0.010	1645475	7.540	-0.013	1333325	130.01	82.68	44.5*	Dieldrin
6.458	0.004	1343658	7.344	0.002	1135957	114.34	76.81	39.3	4,4'-DDE
7.017	-0.029	450951	7.848	-0.029	1165428	55.05	119.68	74.0*	Endrin
7.266	-0.016	104005	8.078	-0.010	2916031	14.10	292.14	181.6*	Endosulfan II
7.081	-0.021	3737878	7.952	0.003	1570046	506.47	165.76	101.4*	4,4'-DDD
8.131	-0.014	40348	----			5.76	0.00	---	Endosulfan sulfate
7.376	-0.019	2695591	8.281	0.014	4157639	361.45	454.78	22.9	4,4'-DDT
----			8.884	-0.025	1934547	0.00	478.18	---	Methoxychlor
8.398	-0.021	325034	9.234	0.023	1444880	40.52	152.62	116.1*	Endrin ketone
----			8.419	-0.001	648802	0.00	92.15	---	Endrin aldehyde
----			6.999	-0.027	6521629	0.00	394.90	---	trans-Chlordane
6.354	-0.027	213832	----			16.35	0.00	---	cis-Chlordane
2.293	-0.015	65966	2.458	-0.028	115022	3.68	5.31	36.3	Hexachlorobutadiene
----			4.681	-0.012	253696	0.00	12.22	---	Hexachlorobenzene
3.807	0.004	343550	4.199	0.001	476618	28.40	29.74	4.6	Tetrachloro-m-xylene MN
9.335	0.011	284955	10.436	0.006	404154	45.01	53.39	17.0	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

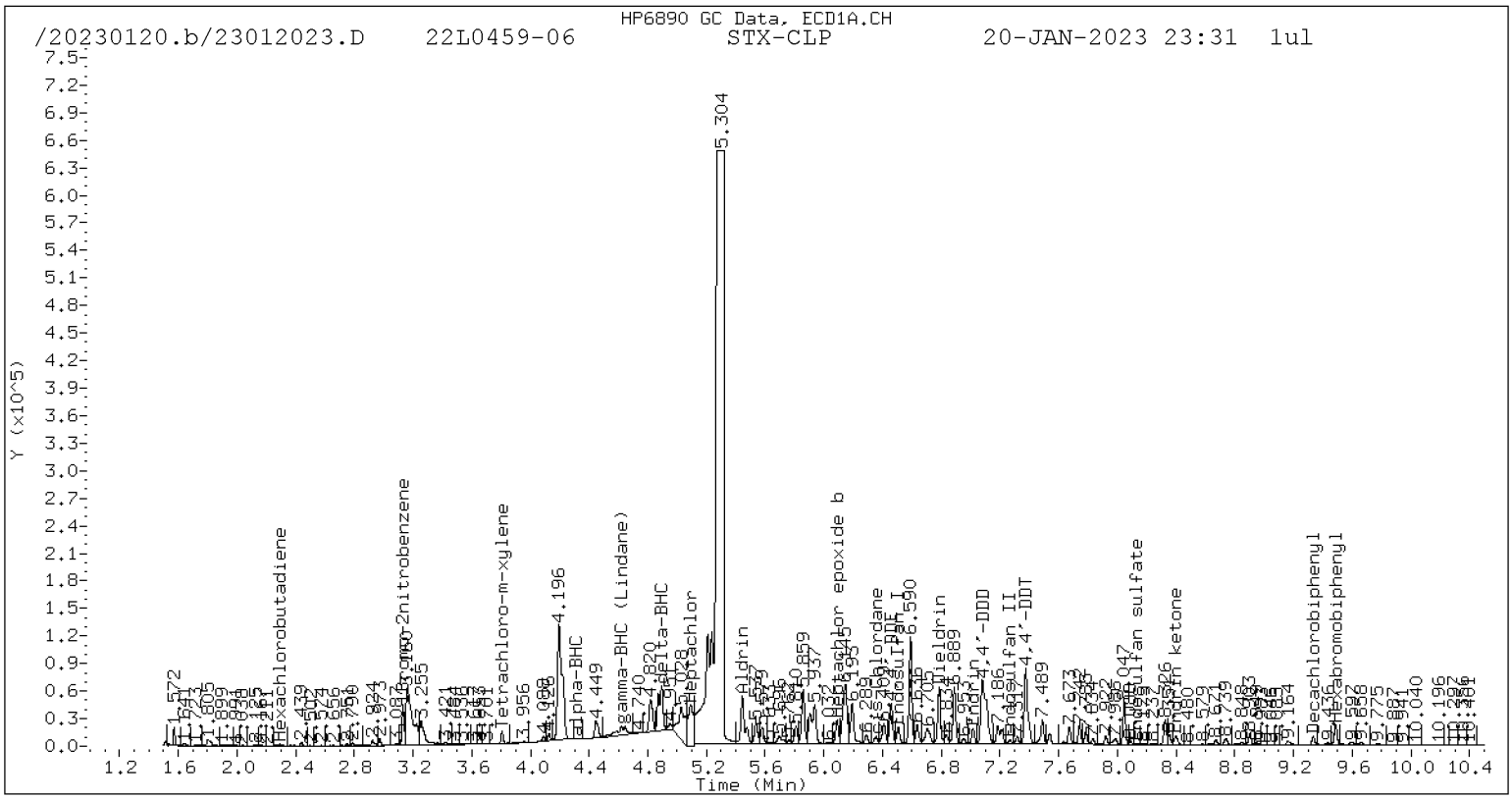
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	889537	32.3
Hexabromobiphenyl	609723	624848	2.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1138542	13.1
Hexabromobiphenyl	769764	684872	-11.0

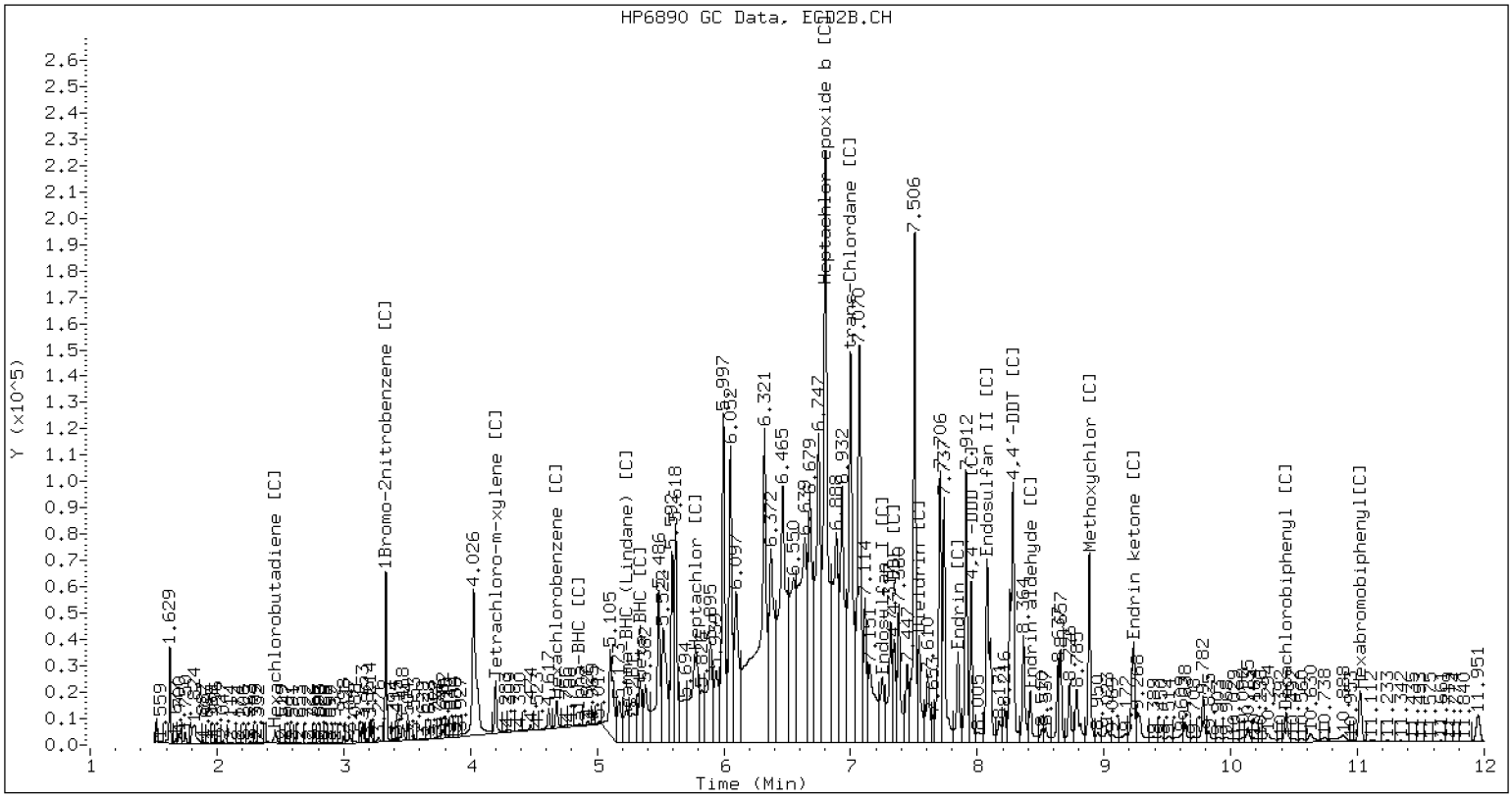
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

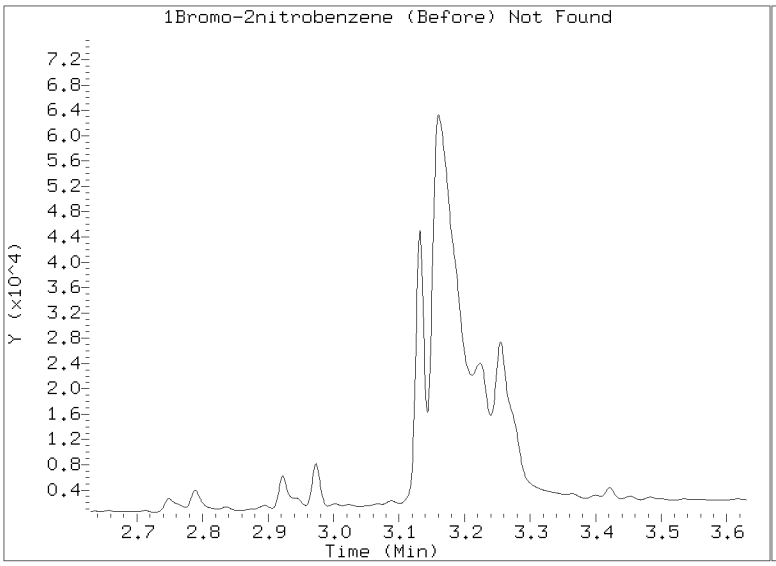
/20230120.b/B20230120.b/23012023.D 22L0459-06 CLP2

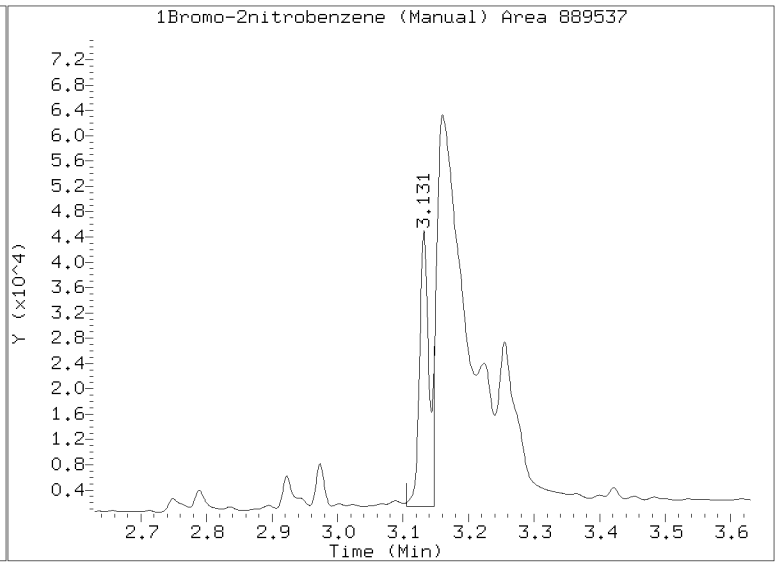


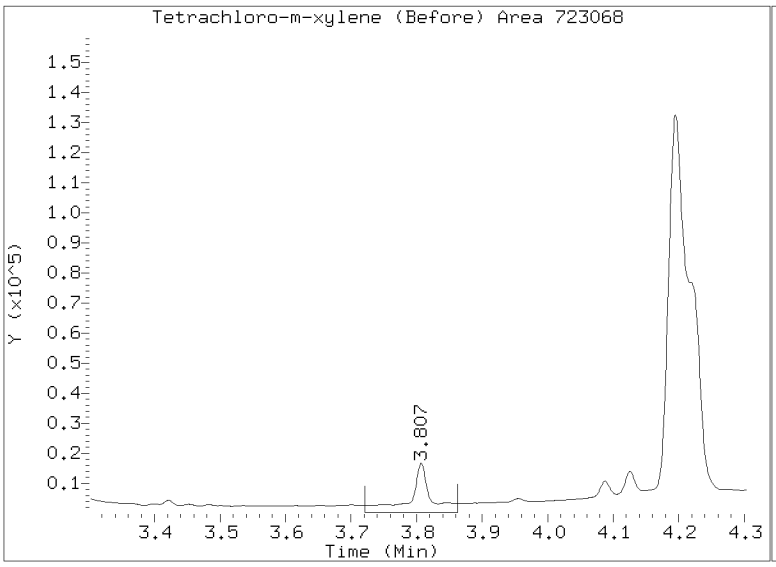
CLP-2 Manual Integration: YES

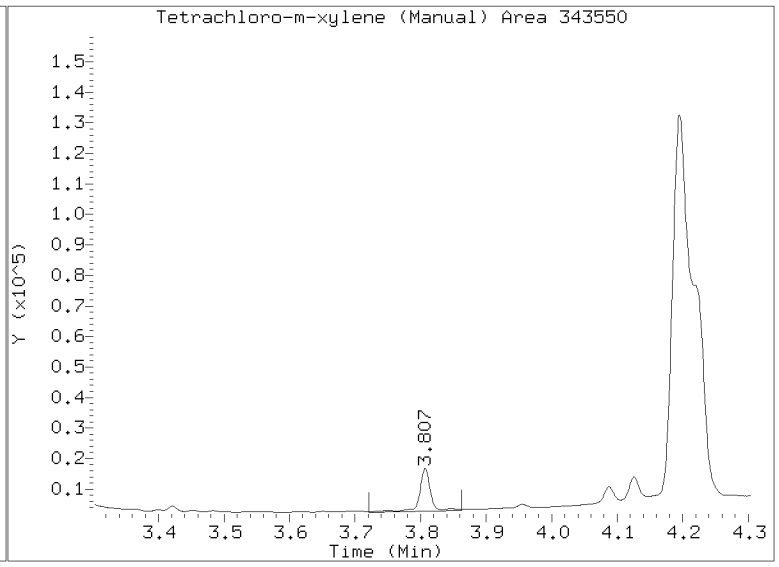
Manual Peak Adjustment Report, STX-CLP

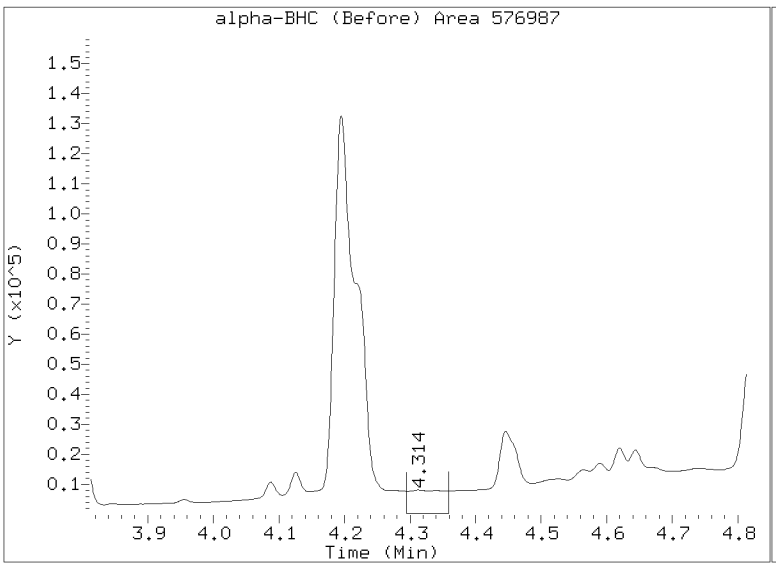
Datafile: /20230120.b/23012023.D
Injection Date: 20-JAN-2023 23:31
Lab ID:22L0459-06 Client ID:
Report Date: 01/24/2023 13:42

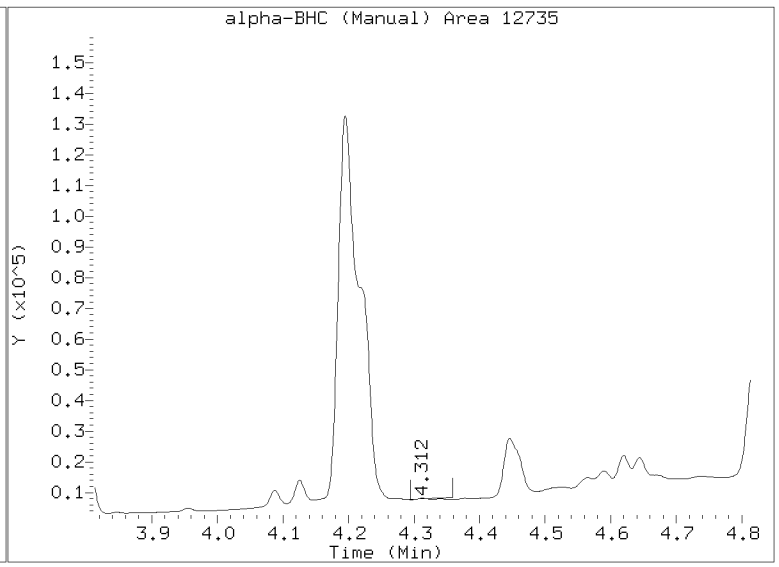






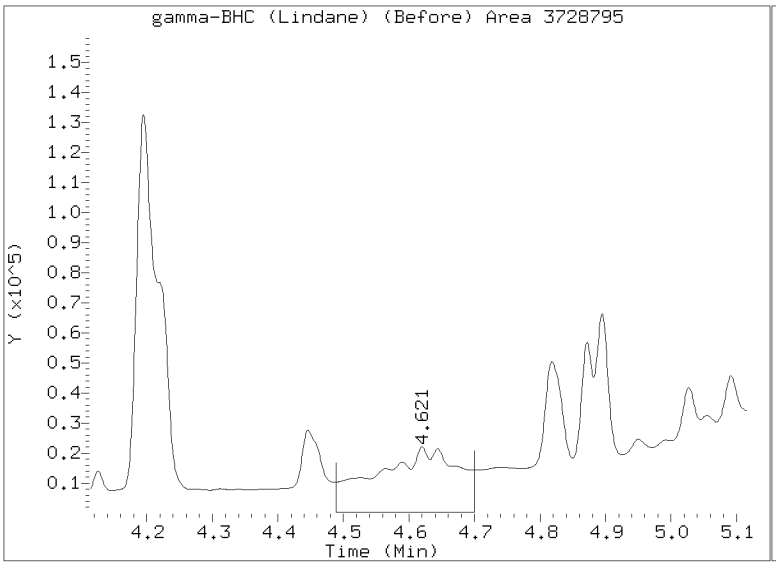


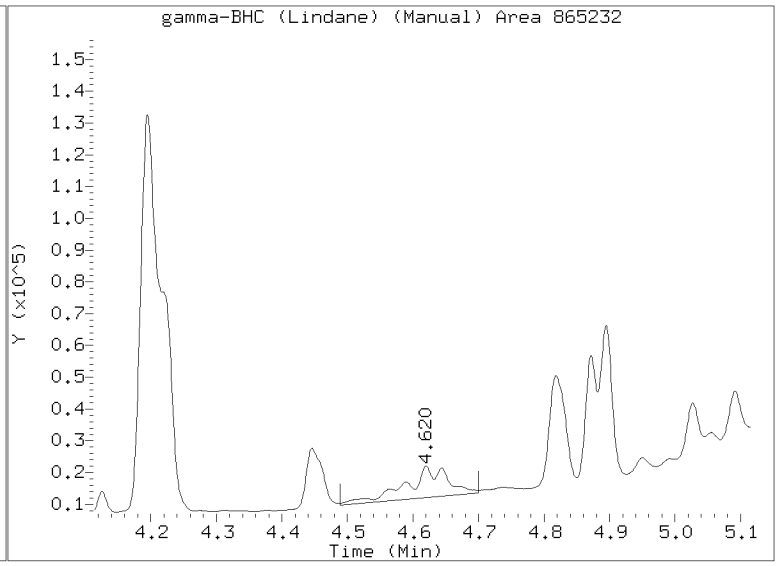


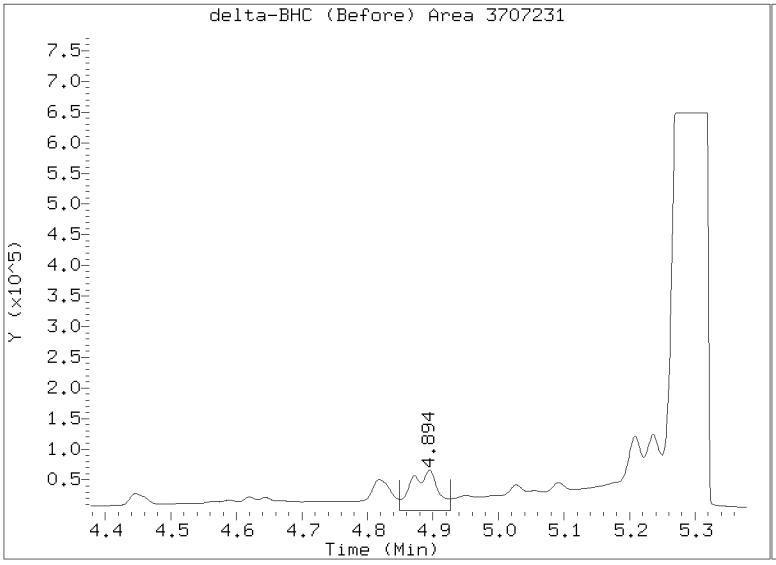


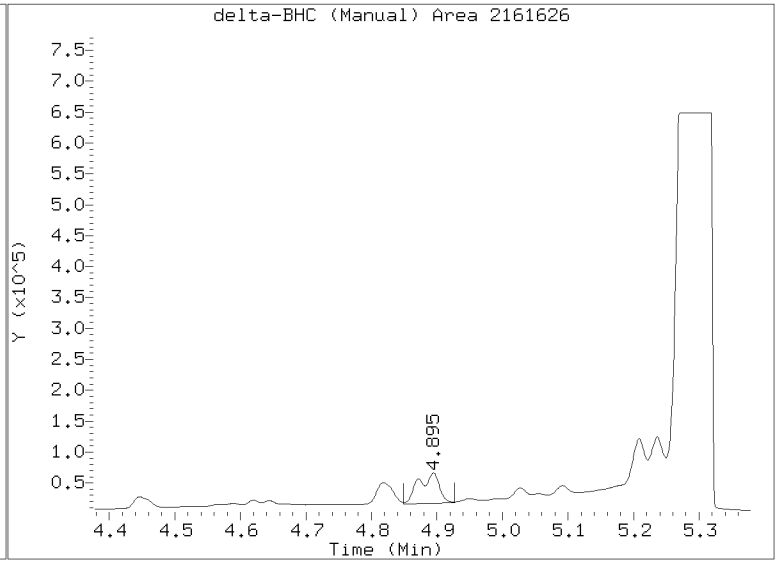
Manual Peak Adjustment Report, STX-CLP

Datafile: /20230120.b/23012023.D
Injection Date: 20-JAN-2023 23:31
Lab ID:22L0459-06 Client ID:
Report Date: 01/24/2023 13:42









Manual Peak Adjustment Report, CLP-2

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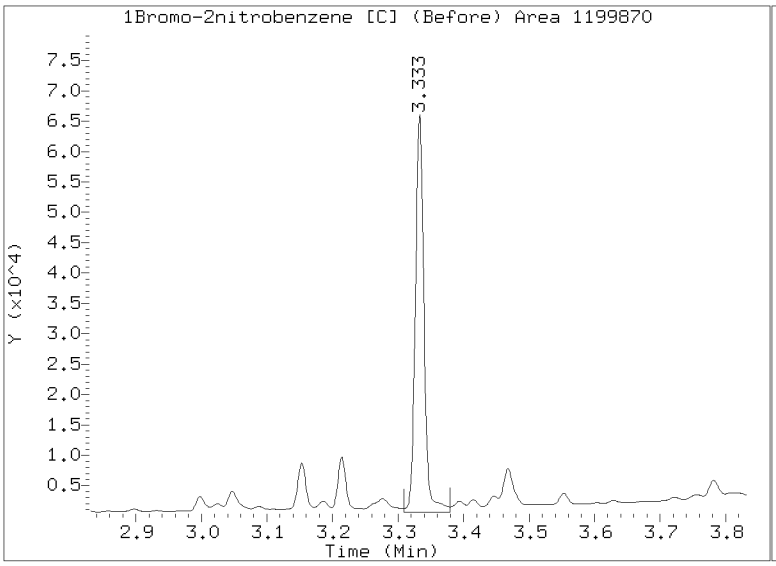
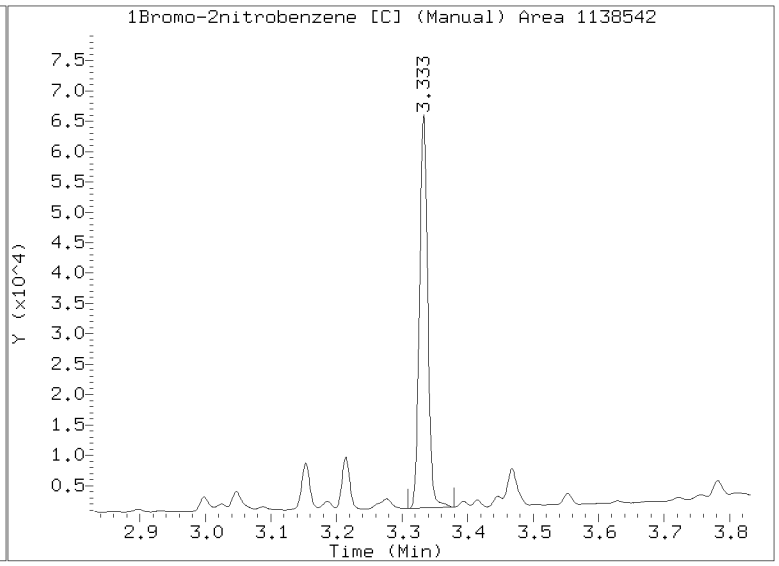
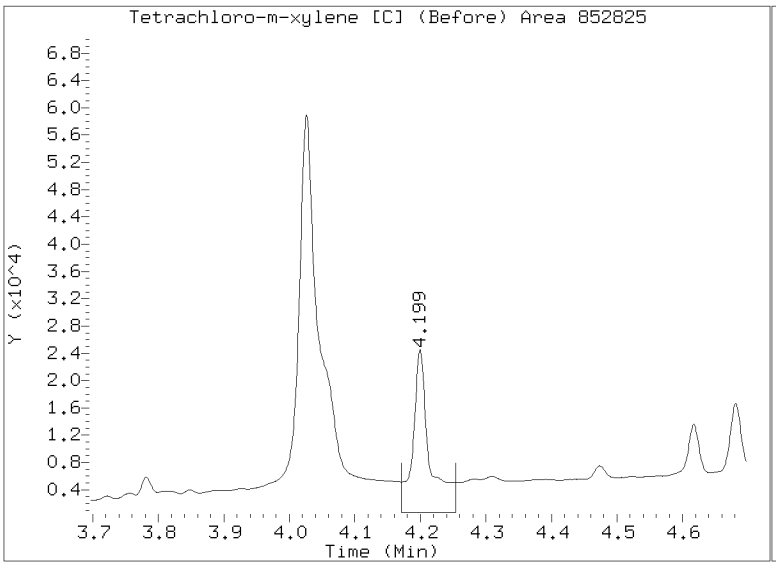
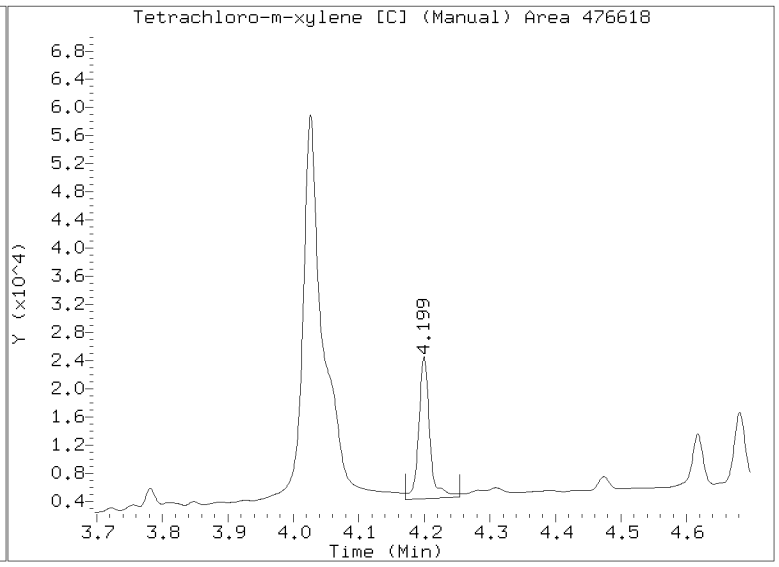
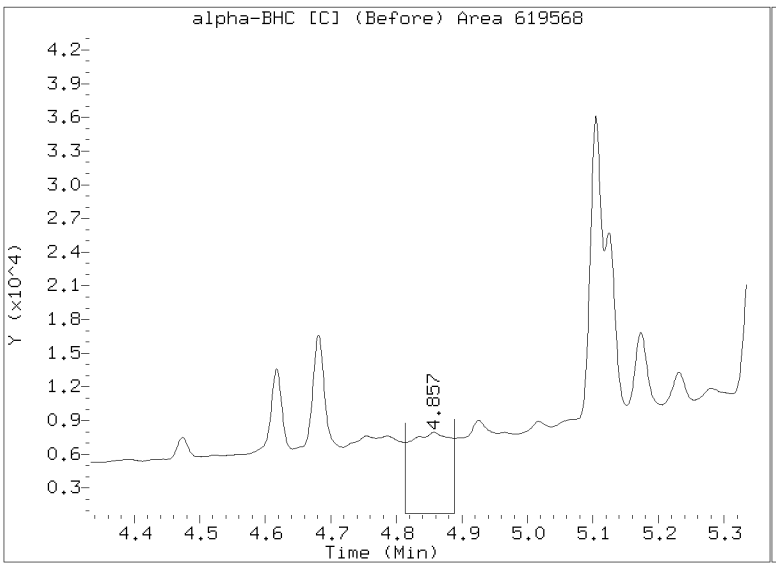
Injection Date: 20-JAN-2023 23:31
Lab ID:22L0459-06 Client ID:

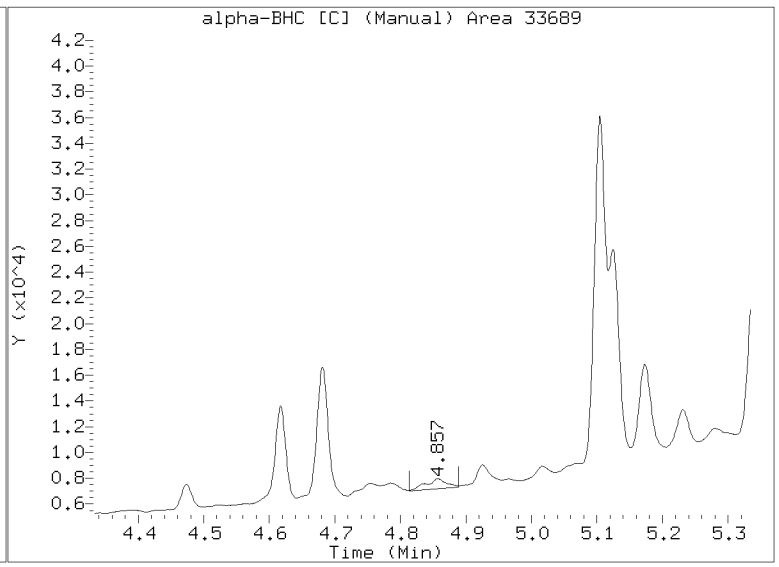












Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1091B

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-07 A	File ID:	23012024.D
Sampled:	12/16/22 12:38	Prepared:	01/05/23 15:38	Analyzed:	01/20/23 23:49
% Solids:	61.13	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.99 g Wet / 2.5 mL
Batch:	BLA0068	Sequence:	SLA0279	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.49	0.14	0.49	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.7935*	*7.85*	*101*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.7935*	*9.32*	*120*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.7935*	*5.62*	*72.2*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.7935*	*5.48*	*70.4*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012024.D
Data file 2: /20230120.b/B20230120.b/23012024.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 22L0459-07
Client ID:
Injection Date: 20-JAN-2023 23:49
Report Date: 01/24/2023 13:42
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.335	0.021	74943	4.835	0.001	7832	4.76	0.36	172.2*	alpha-BHC MN
----			5.338	0.028	25806	0.00	3.08	---	beta-BHC
4.891	0.012	173669	----			13.50	0.00	---	delta-BHC
4.618	0.003	69157	5.230	0.000	9634	5.07	0.52	163.0*	gamma-BHC (Lindane) MN
5.086	-0.011	38798	5.768	0.013	79062	3.19	4.67	37.6	Heptachlor MN
5.441	0.023	166380	6.162	0.003	36347	12.22	1.88	146.6*	Aldrin M
6.083	-0.009	71796	6.796	-0.019	440565	6.08	27.57	127.7*	Heptachlor epoxide b M
----			7.248	-0.011	55873	0.00	3.97	---	Endosulfan I
6.781	-0.014	235890	7.536	-0.016	151035	20.27	9.71	70.5*	Dieldrin M
6.454	-0.000	270309	7.342	-0.001	138074	25.02	9.68	88.4*	4,4'-DDE M
7.073	0.027	520352	----			66.86	0.00	---	Endrin
7.312	0.030	30397	8.099	0.011	184220	4.34	17.94	122.1*	Endosulfan II M
----			7.949	-0.000	170971	0.00	17.55	---	4,4'-DDD
8.131	-0.015	9416	----			1.42	0.00	---	Endosulfan sulfate
7.369	-0.026	464179	8.276	0.009	691880	65.52	73.57	11.6	4,4'-DDT M
----			8.880	-0.029	368891	0.00	88.63	---	Methoxychlor
8.391	-0.028	70222	9.230	0.019	367051	9.22	37.69	121.4*	Endrin ketone M
7.738	0.026	105823	8.415	-0.004	112863	18.94	15.58	19.4	Endrin aldehyde M
----			----			0.00	0.00	---	trans-Chlordane
6.405	0.025	116595	7.186	-0.001	45203	9.70	2.90	107.9*	cis-Chlordane M
2.293	-0.015	26849	2.458	-0.028	120960	1.63	5.79	112.2*	Hexachlorobutadiene M
4.158	0.002	11092	----			0.76	0.00	---	Hexachlorobenzene
3.805	0.002	321093	4.198	0.001	435157	28.87	28.14	2.5	Tetrachloro-m-xylene MN
9.328	0.005	242296	10.431	0.001	372485	40.29	47.83	17.1	Decachlorobiphenyl M

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

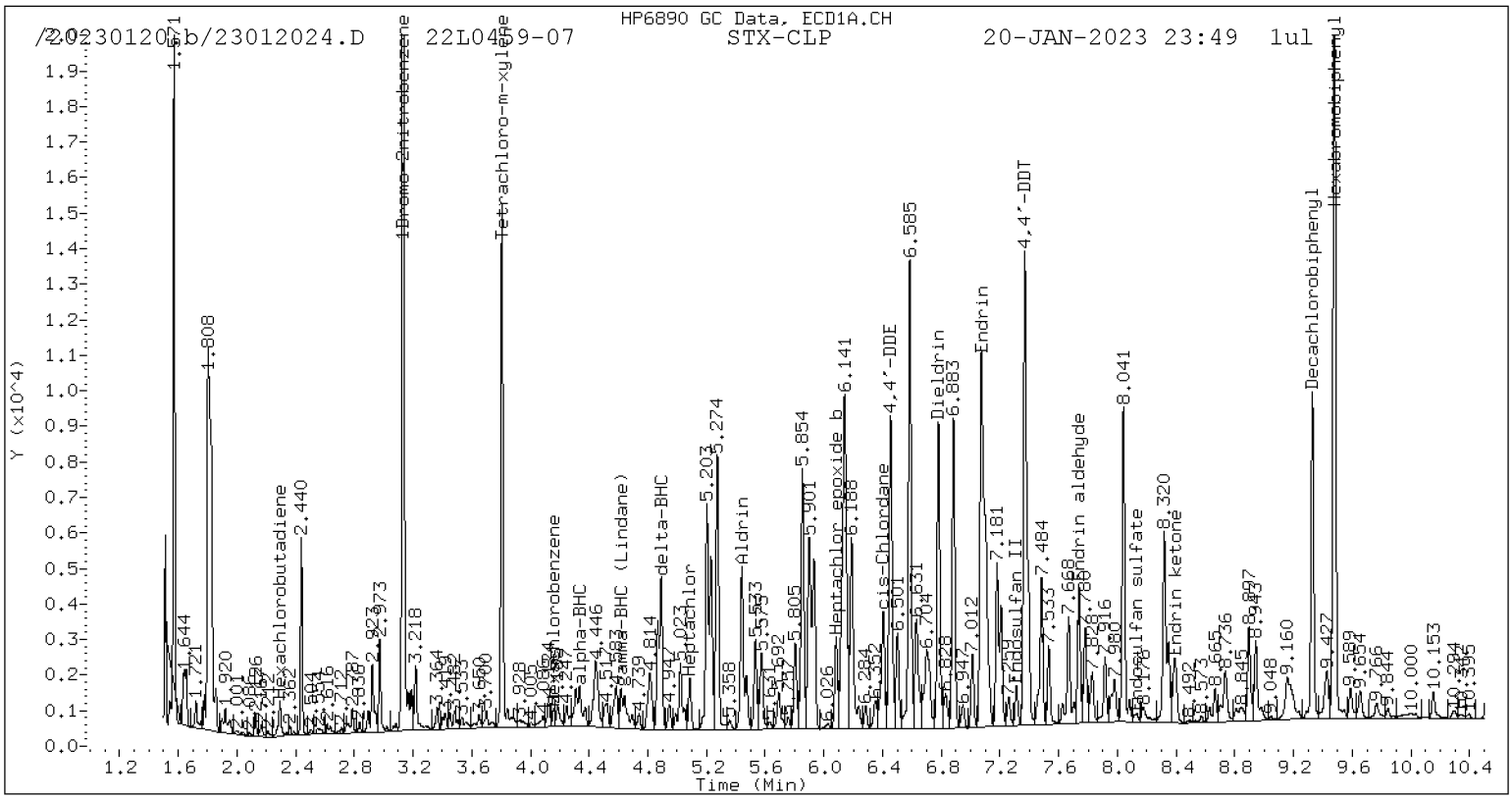
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	817881	21.6
Hexabromobiphenyl	609723	593592	-2.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1098460	9.1
Hexabromobiphenyl	769764	704563	-8.5

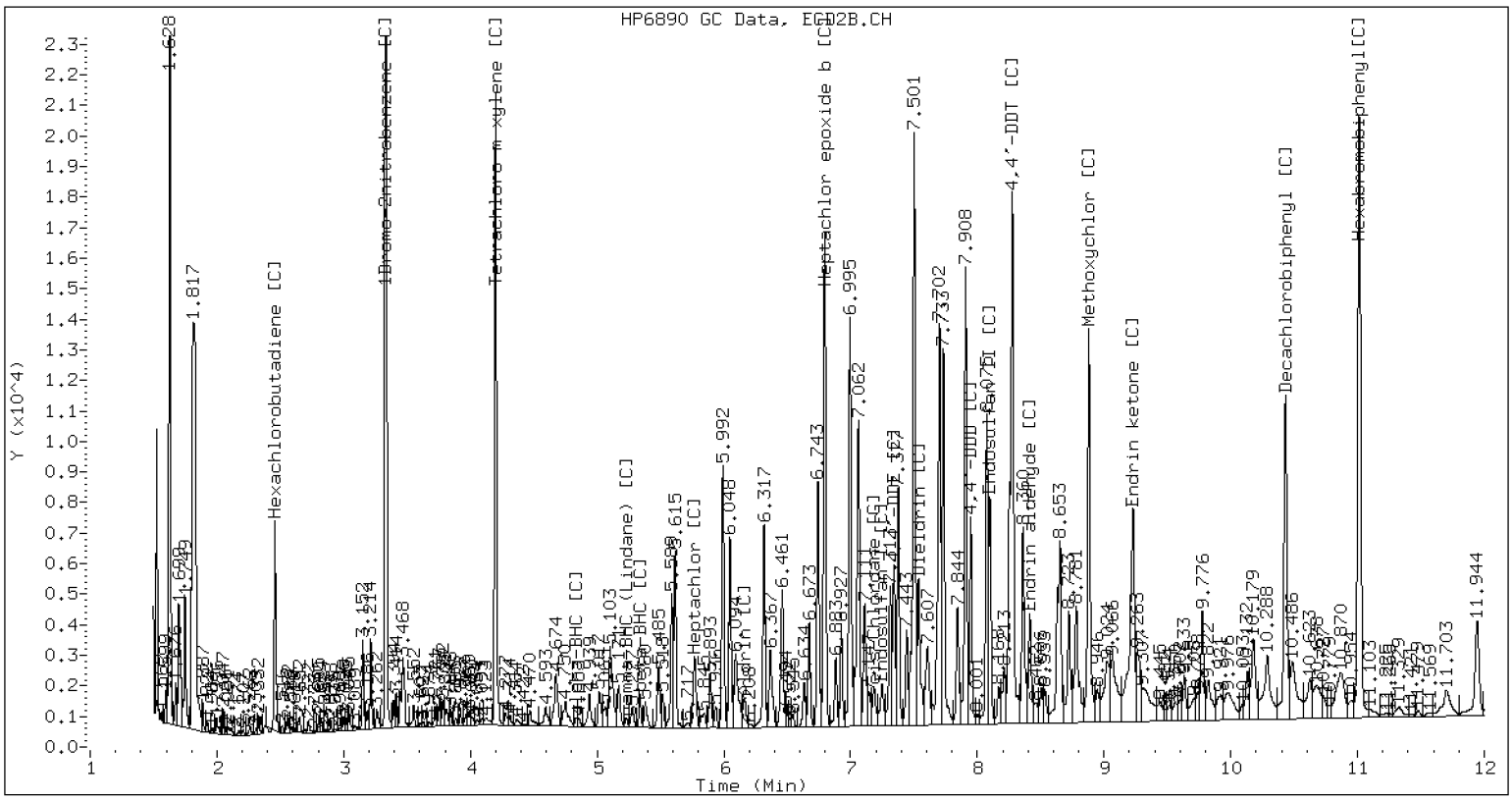
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

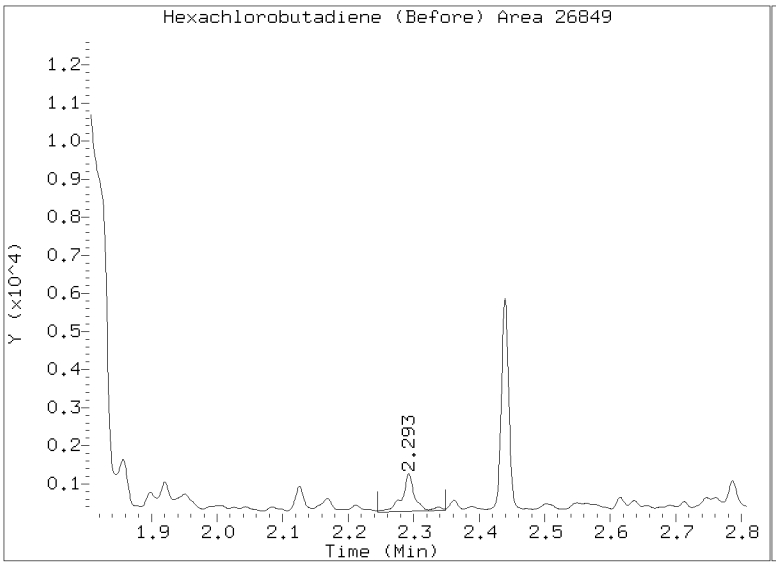
/20230120.b/B20230120.b/23012024.D 22L0459-07 CLP2

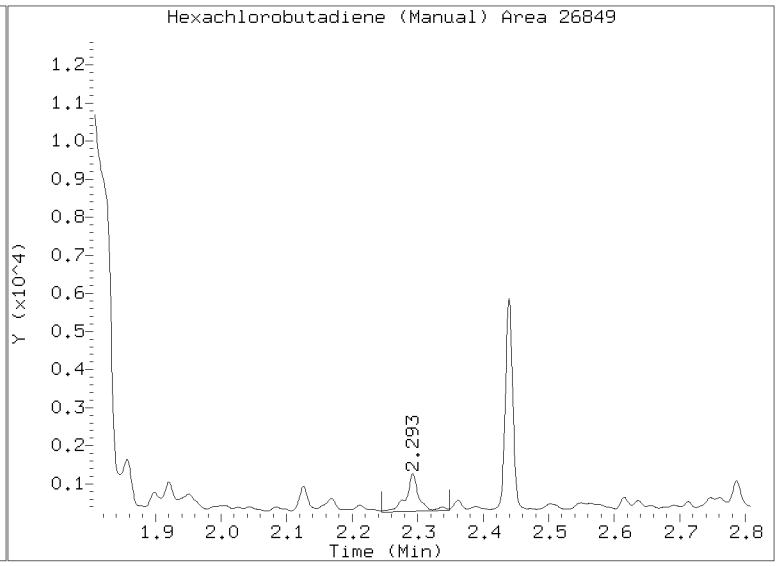


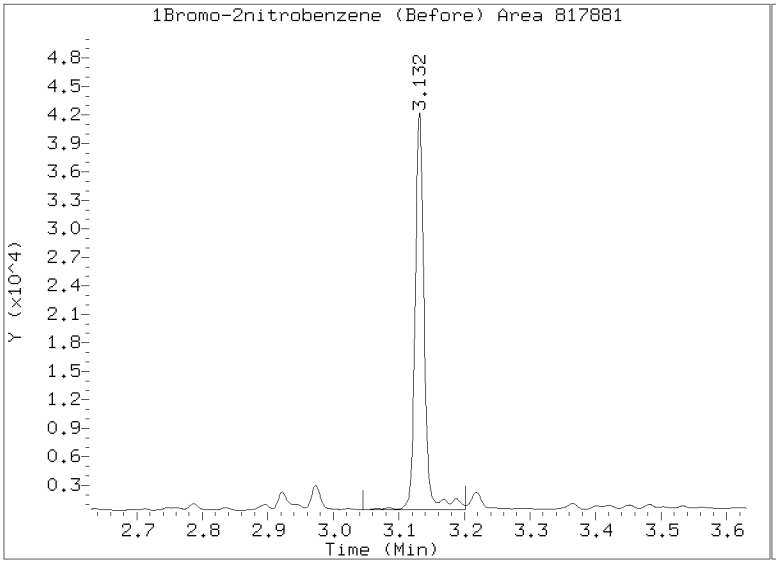
CLP-2 Manual Integration: YES

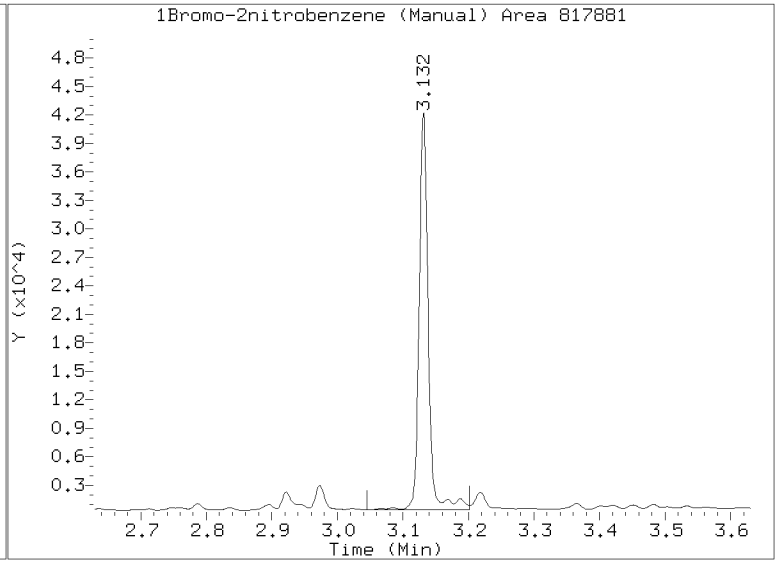
Manual Peak Adjustment Report, STX-CLP

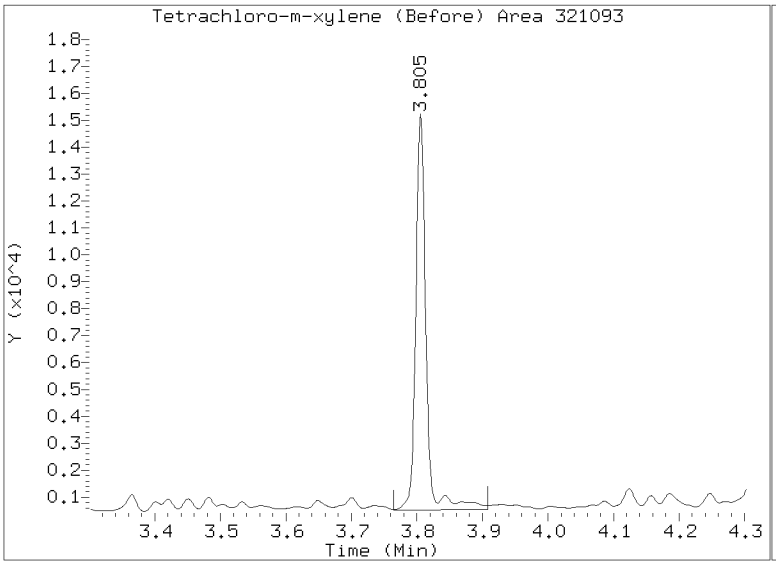
Datafile: /20230120.b/23012024.D
Injection Date: 20-JAN-2023 23:49
Lab ID:22L0459-07 Client ID:
Report Date: 01/24/2023 13:42

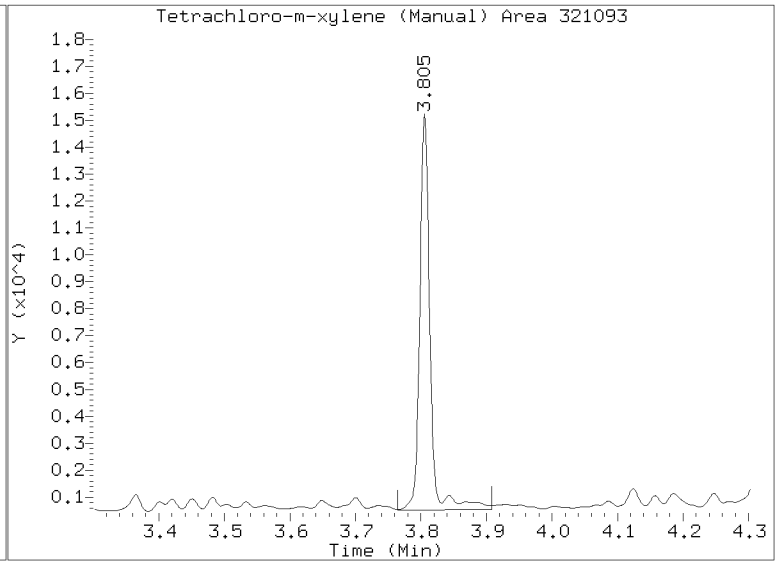






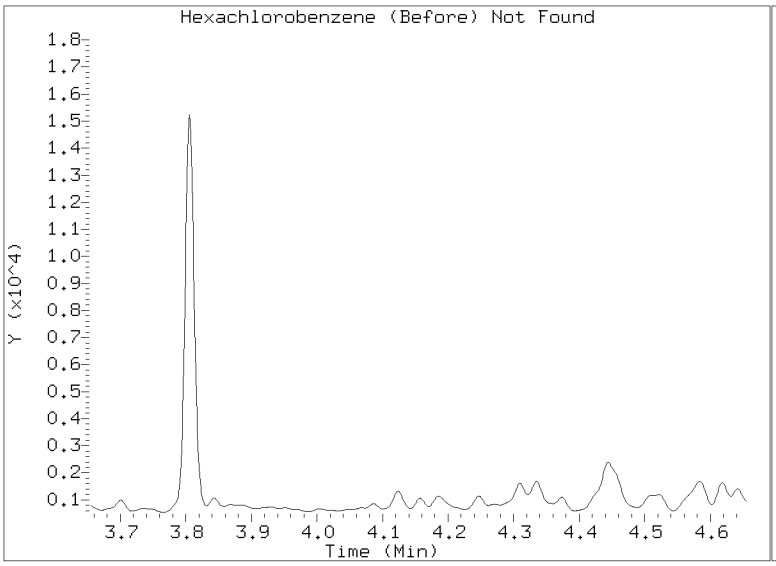


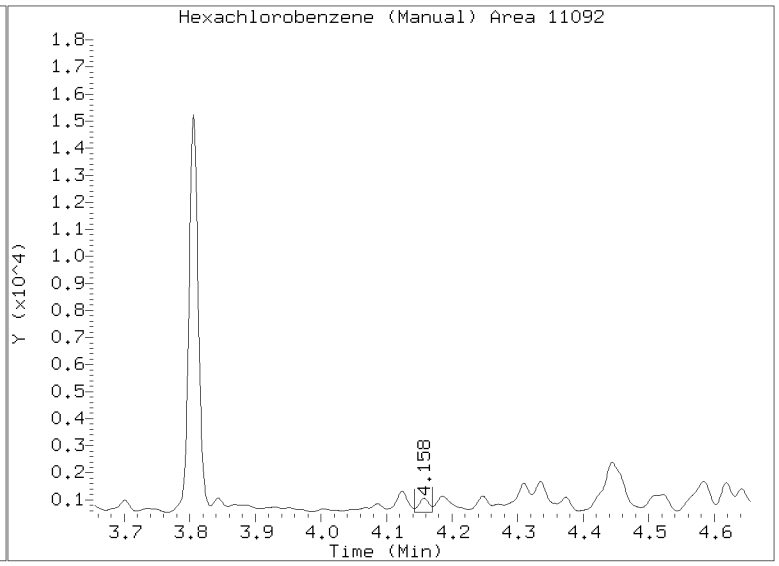


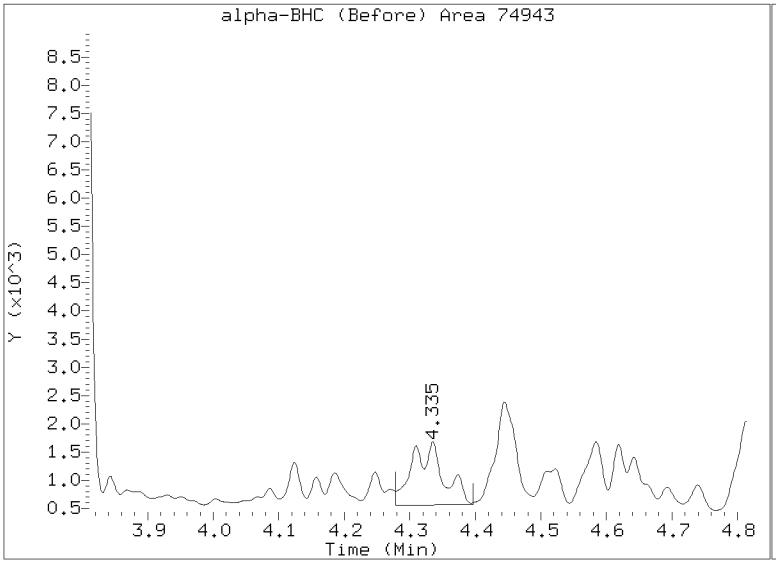


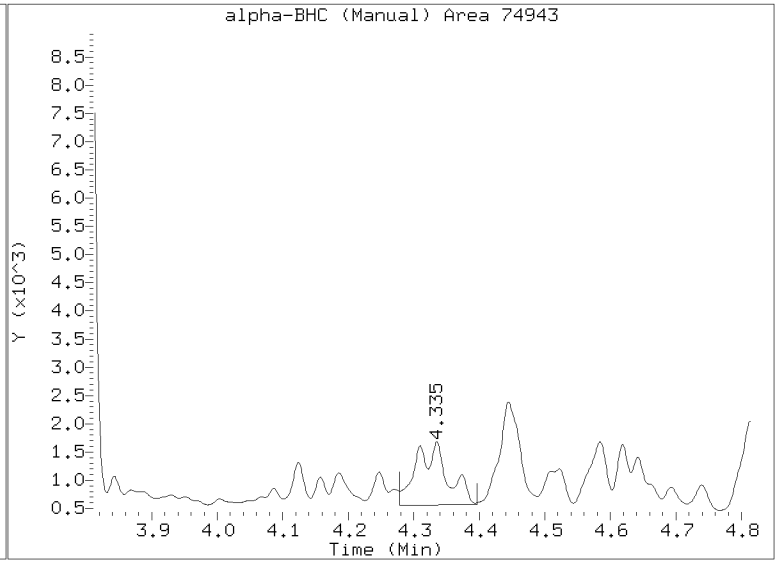
Manual Peak Adjustment Report, STX-CLP

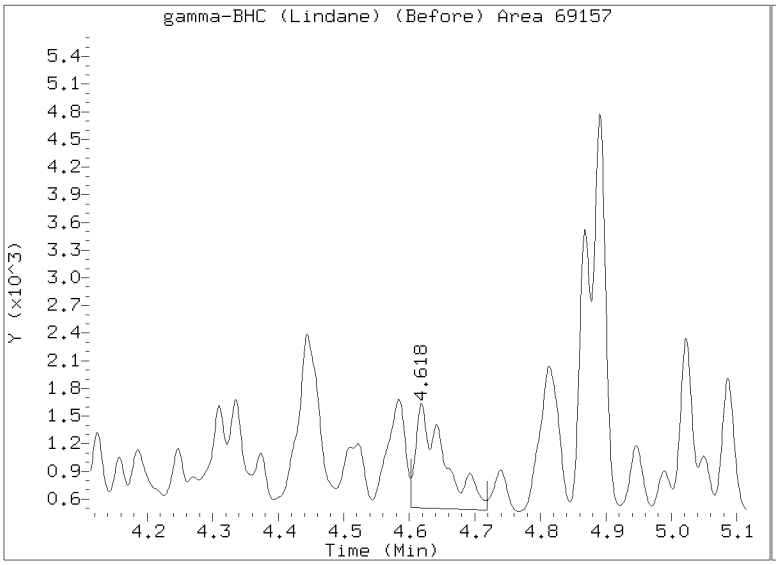
Datafile: /20230120.b/23012024.D
Injection Date: 20-JAN-2023 23:49
Lab ID:22L0459-07 Client ID:
Report Date: 01/24/2023 13:42

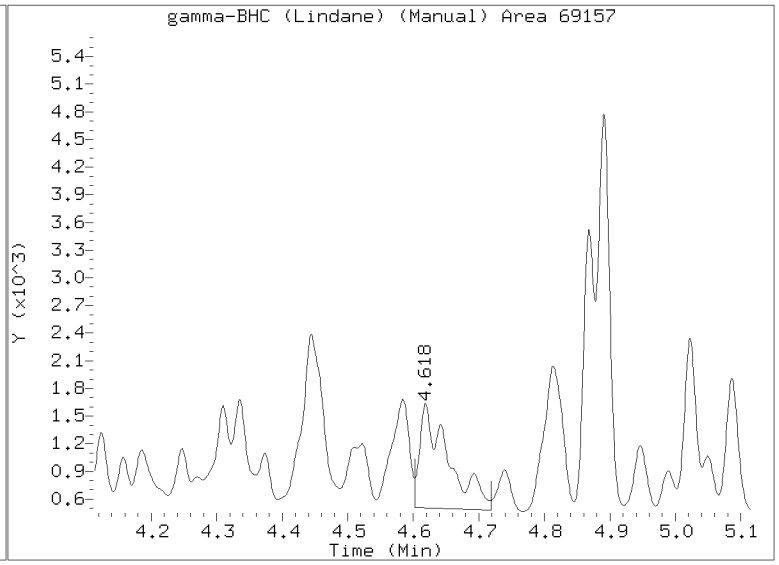












Manual Peak Adjustment Report, STX-CLP

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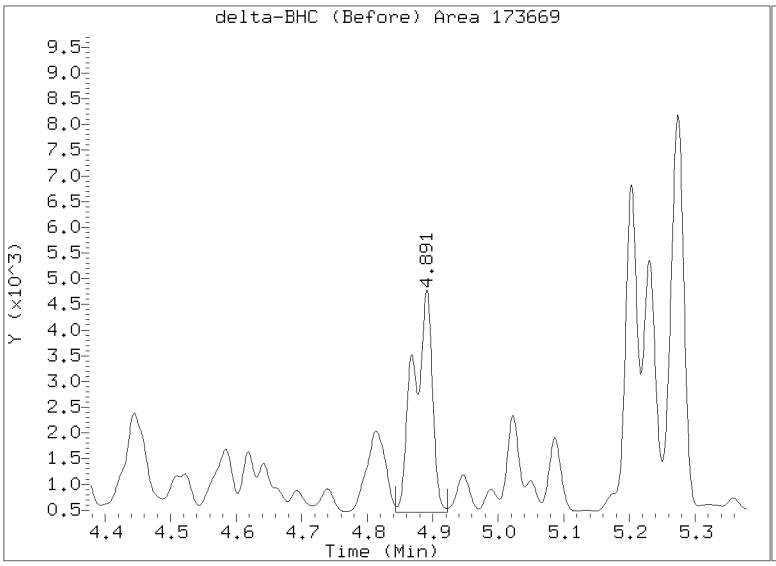
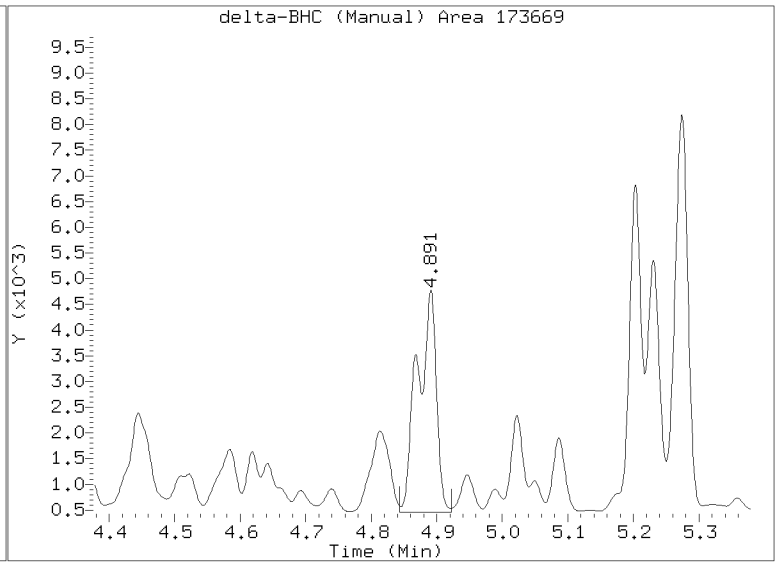
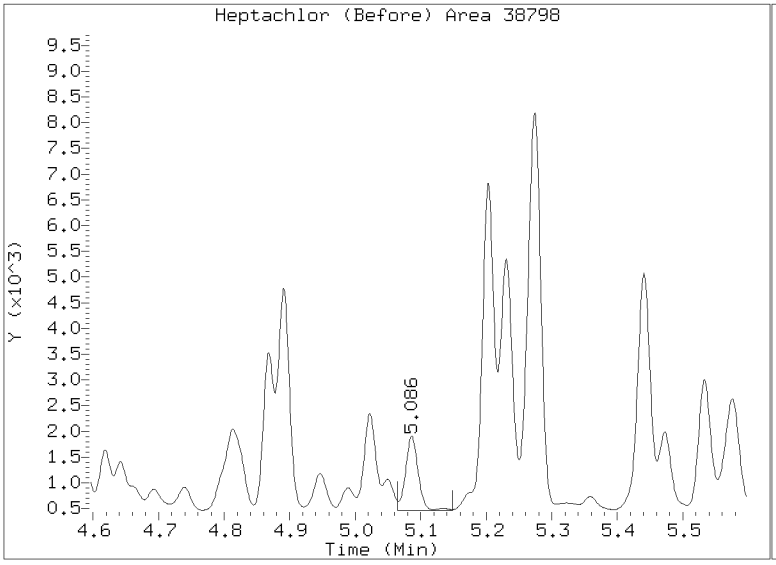
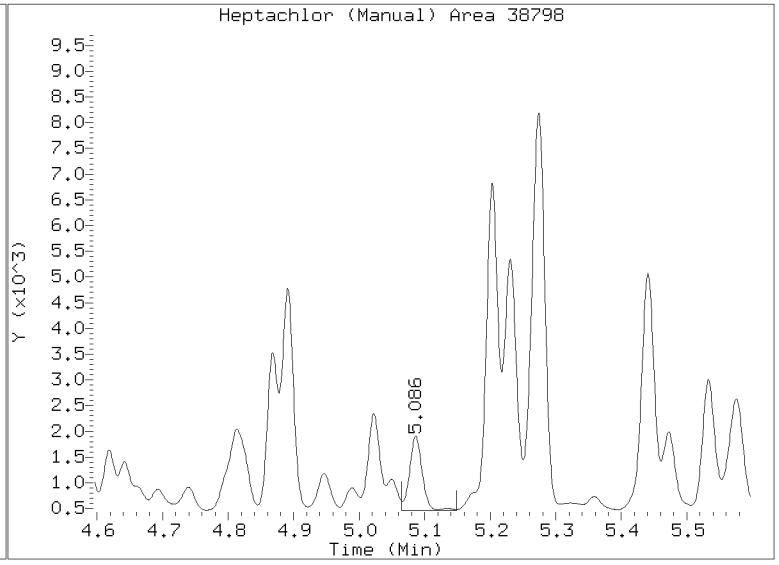
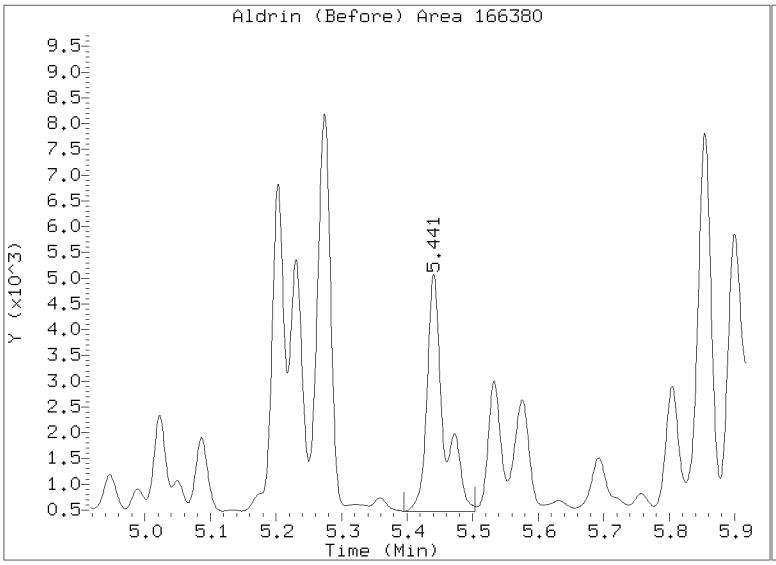
Injection Date: 20-JAN-2023 23:49
Lab ID:22L0459-07 Client ID:
Report Date: 01/24/2023 13:42

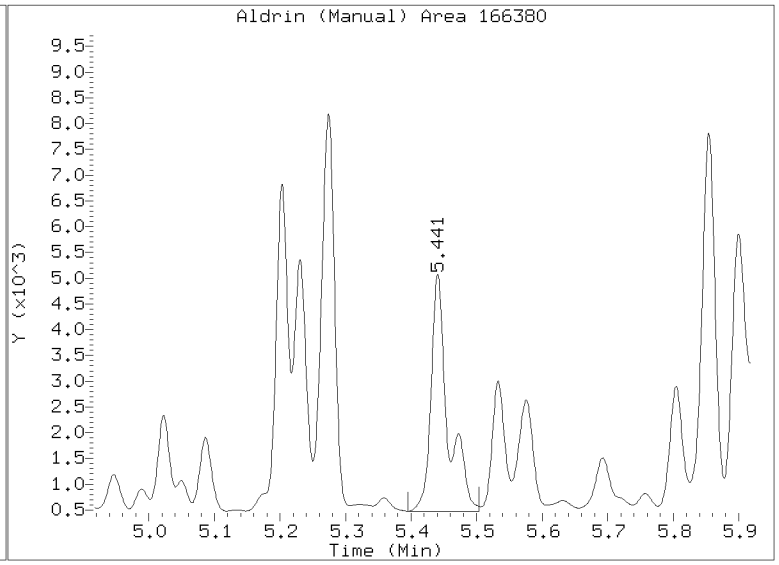






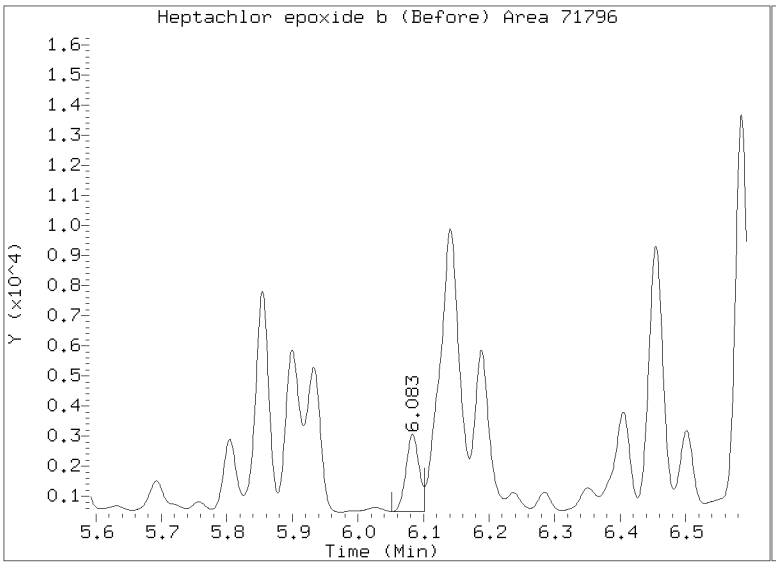


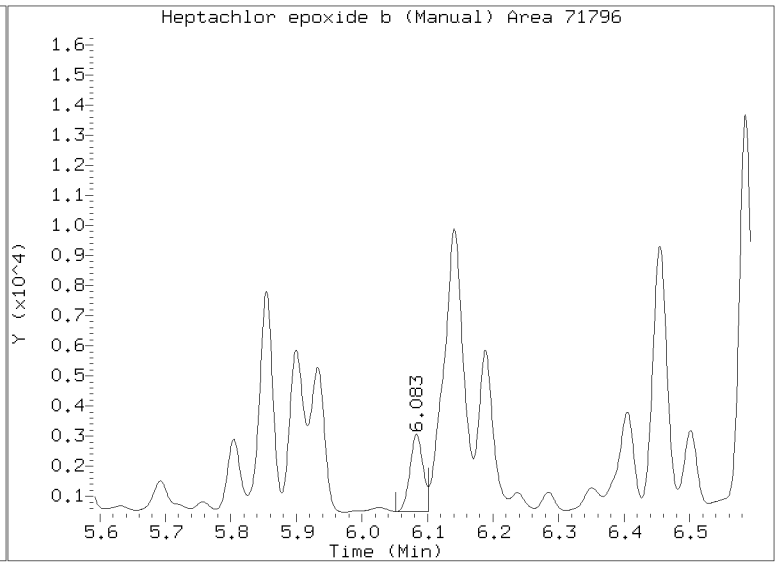


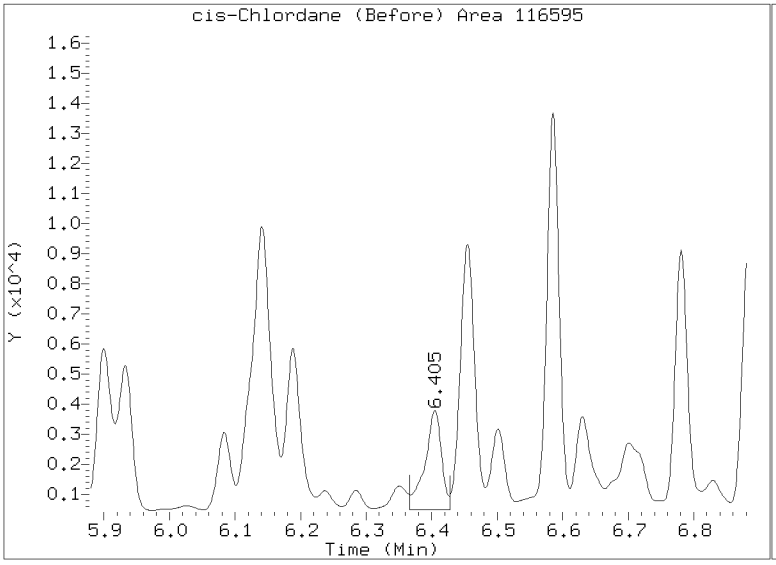


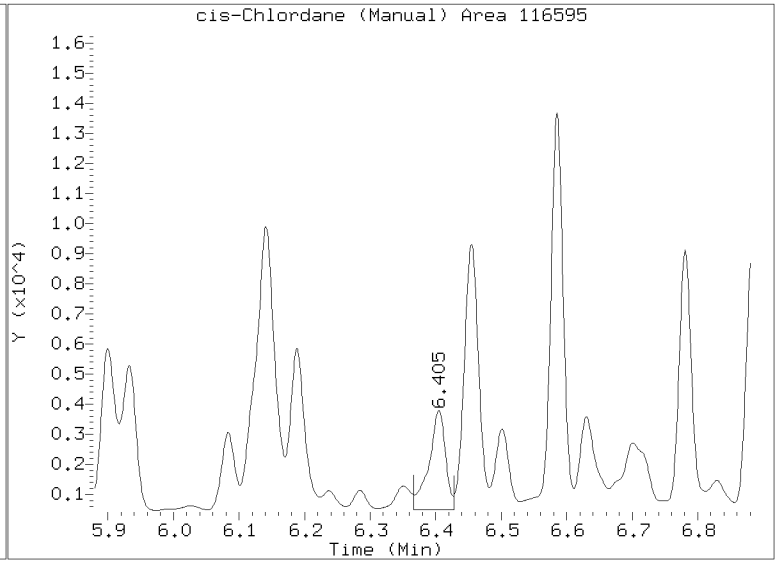
Manual Peak Adjustment Report, STX-CLP

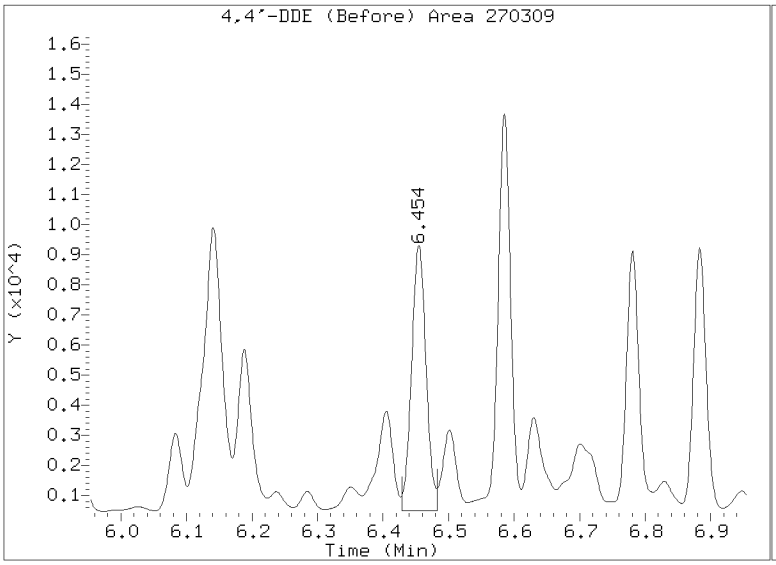
Datafile: /20230120.b/23012024.D
Injection Date: 20-JAN-2023 23:49
Lab ID:22L0459-07 Client ID:
Report Date: 01/24/2023 13:42

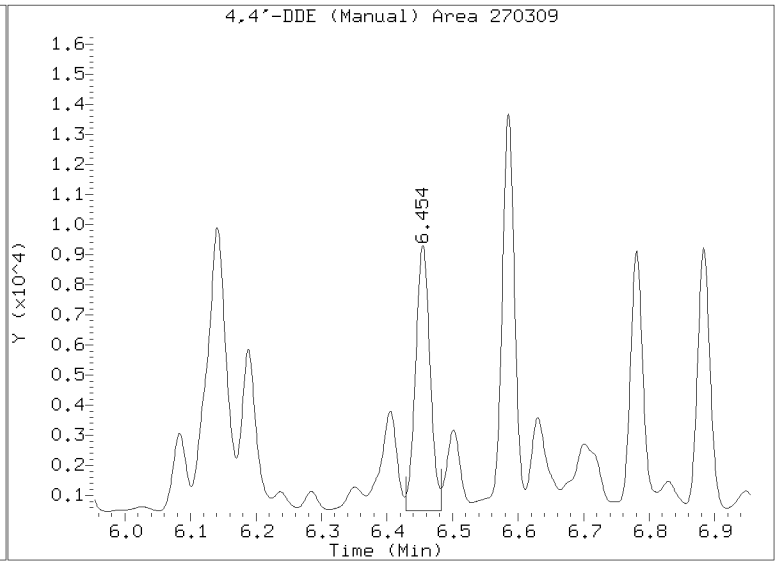












Manual Peak Adjustment Report, STX-CLP

Datafile: /20230120.b/23012024.D
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Lab ID:22L0459-07 Client ID:
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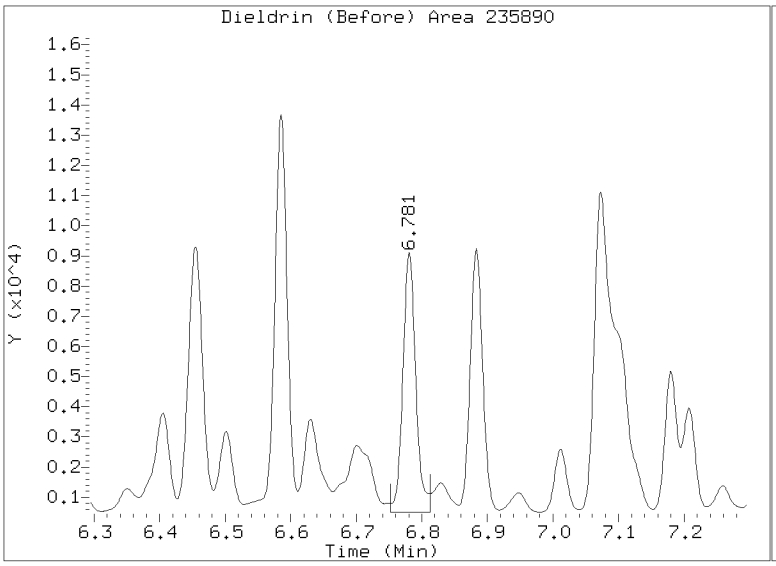
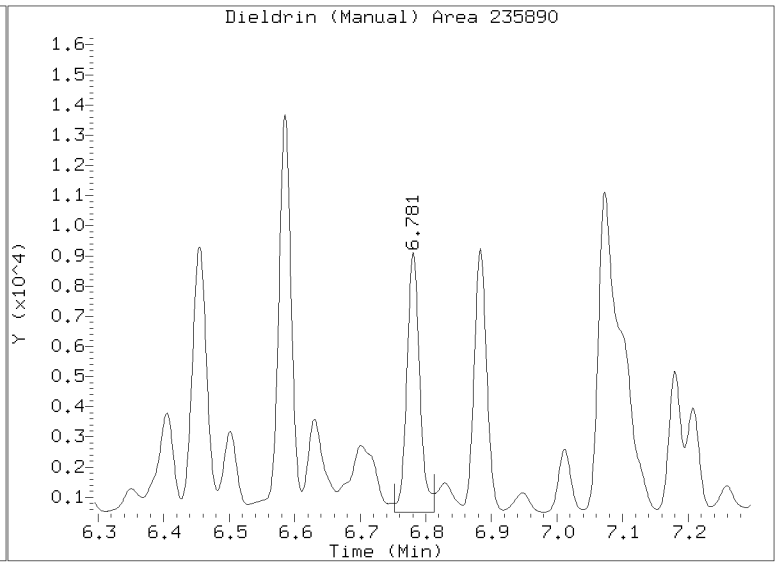
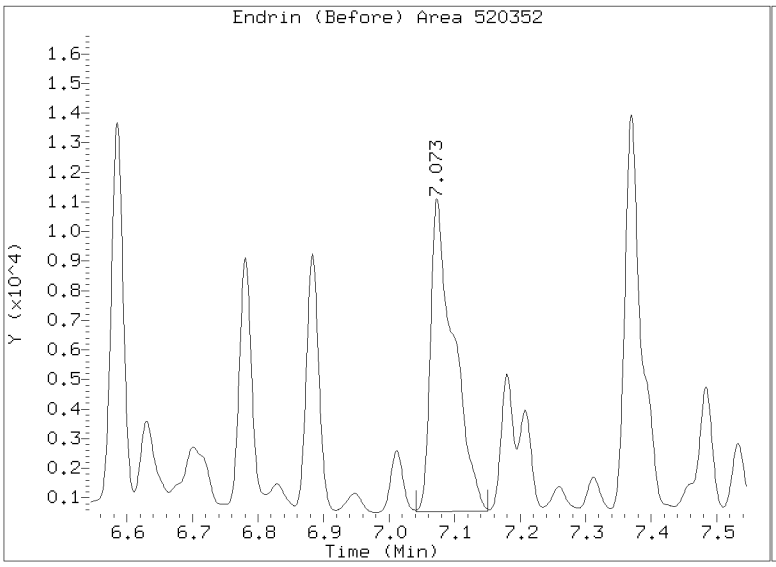
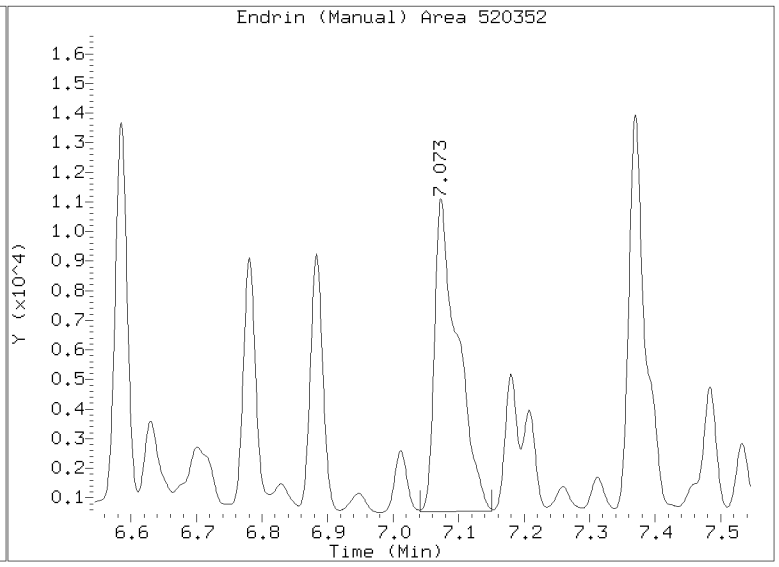
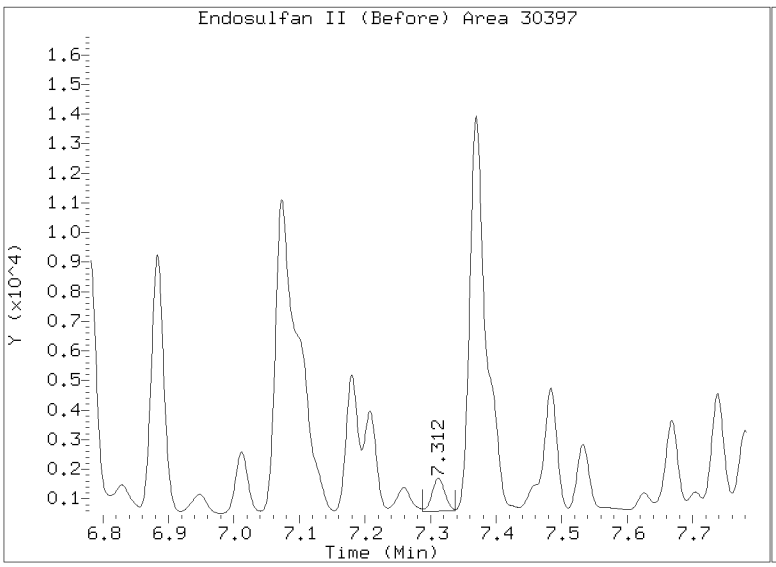
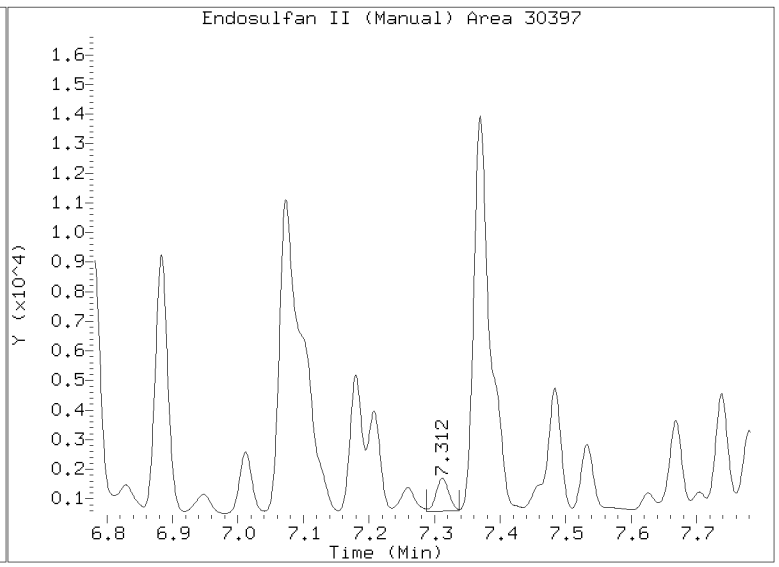






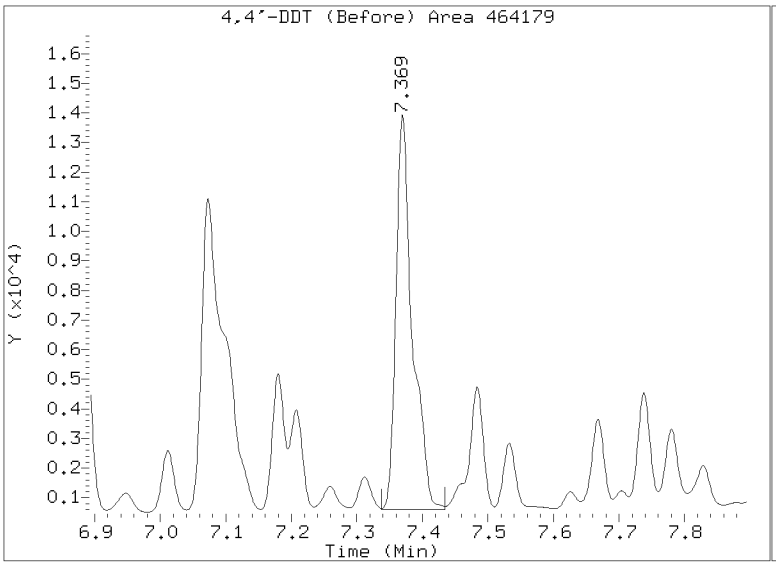


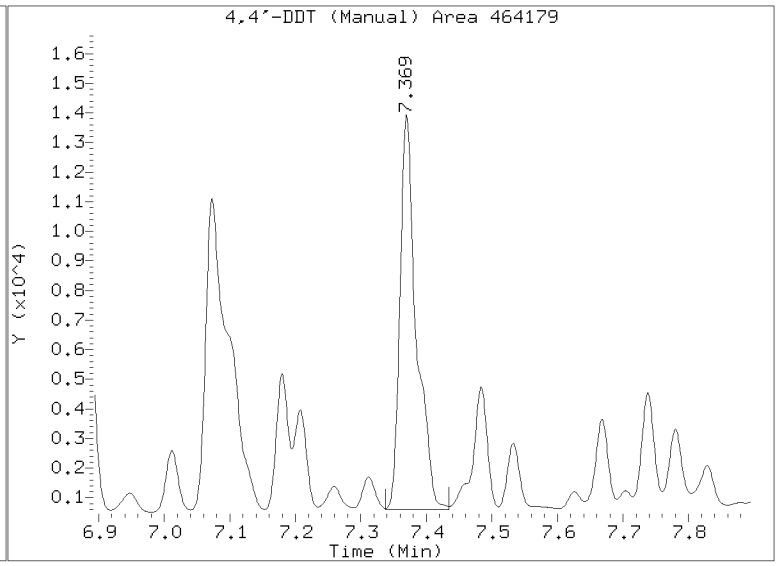


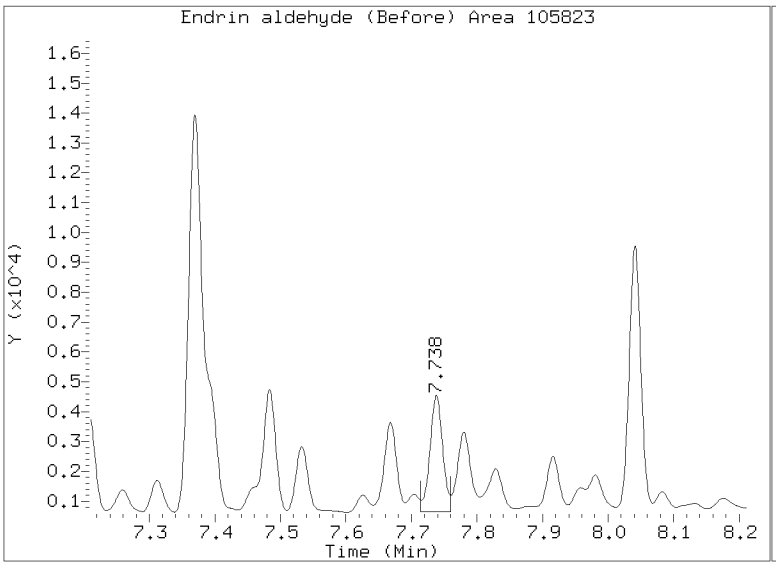


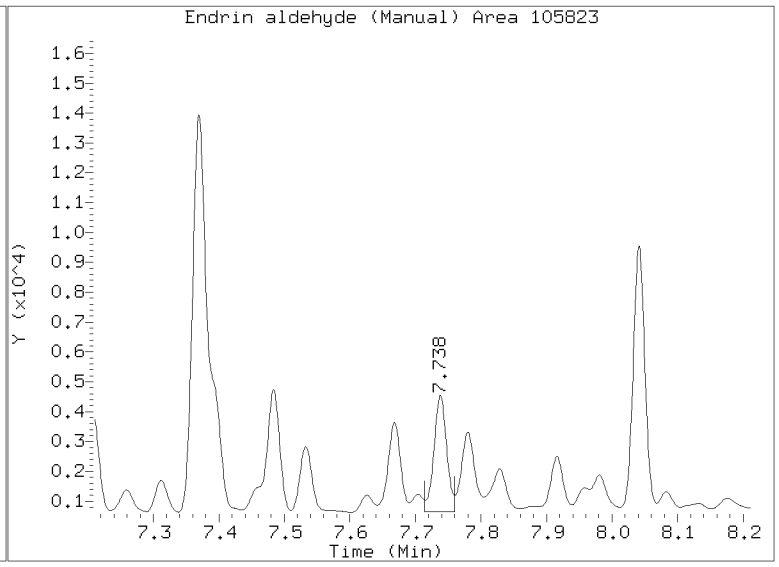
Manual Peak Adjustment Report, STX-CLP

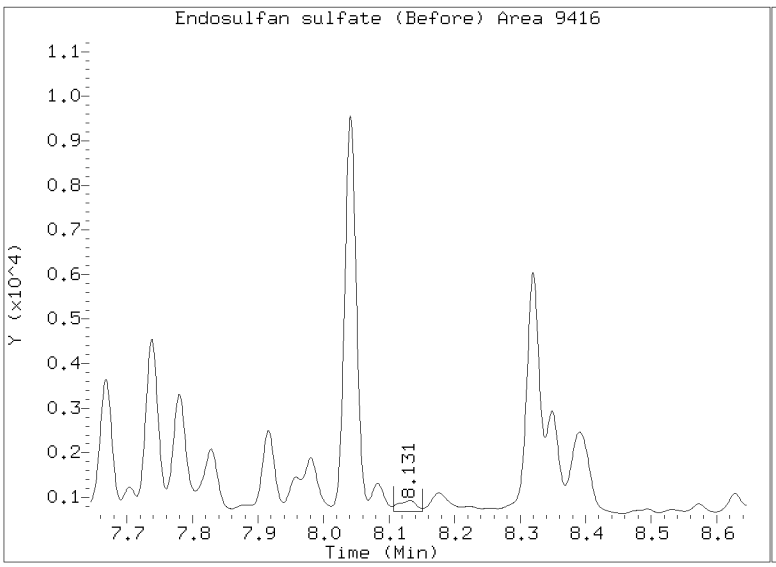
Datafile: /20230120.b/23012024.D
Injection Date: 20-JAN-2023 23:49
Lab ID:22L0459-07 Client ID:
Report Date: 01/24/2023 13:42

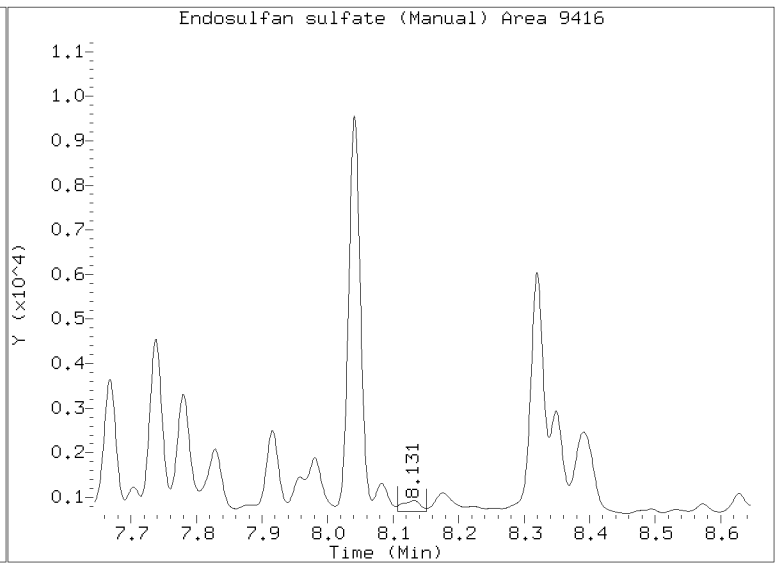






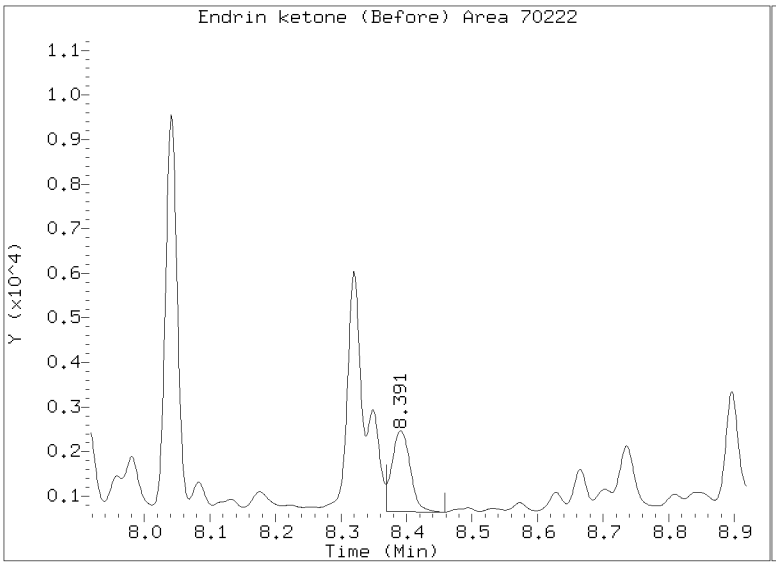


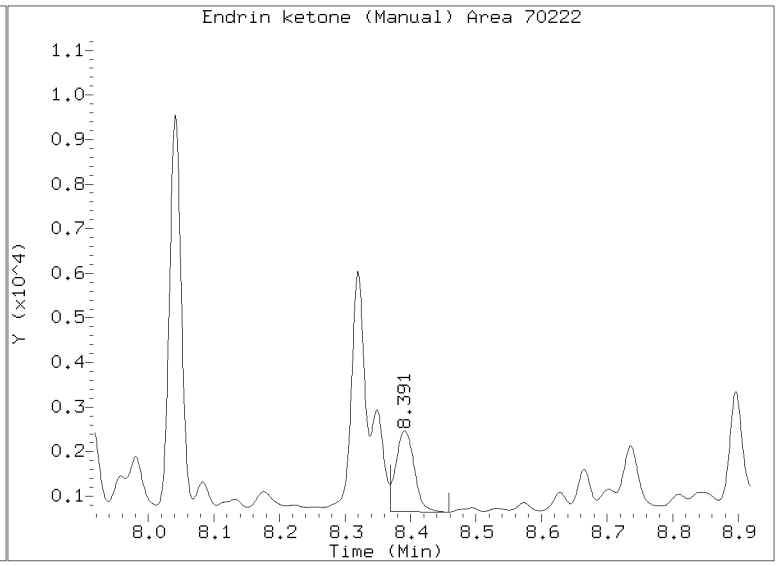


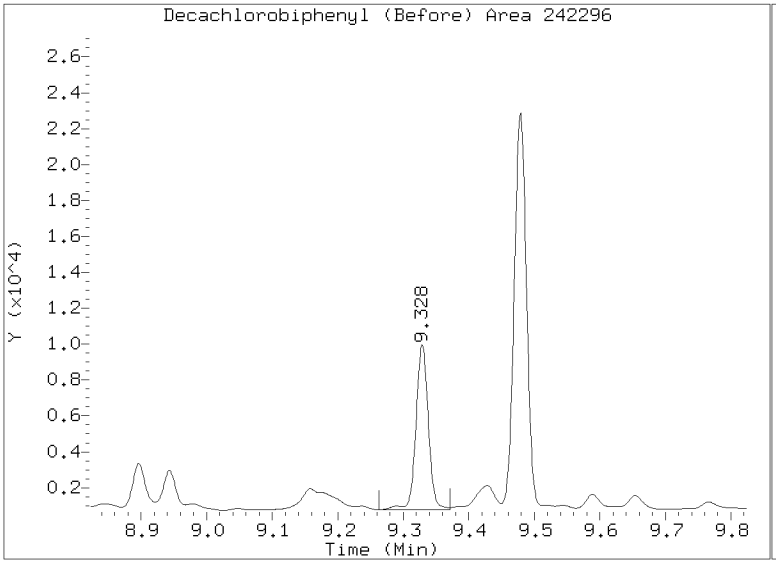


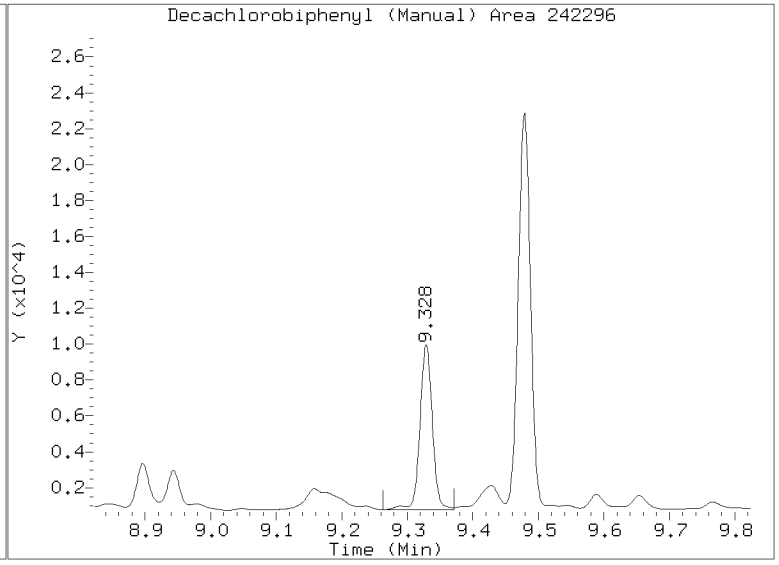
Manual Peak Adjustment Report, STX-CLP

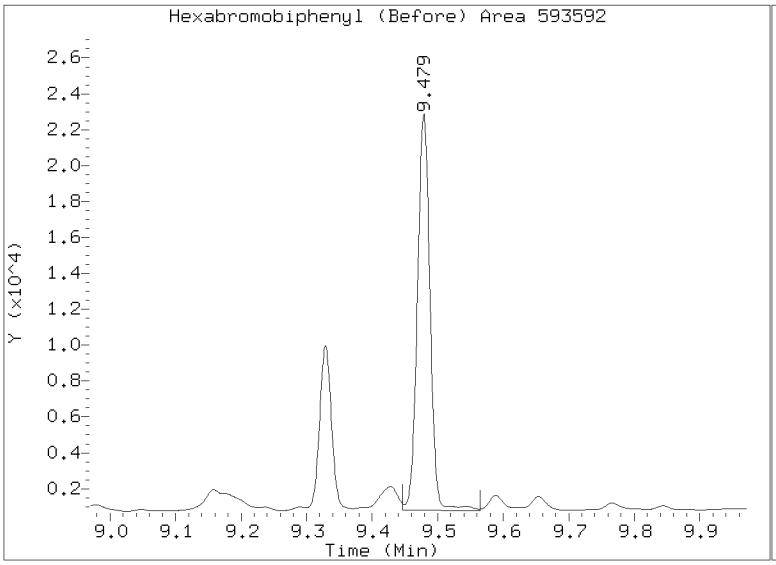
Datafile: /20230120.b/23012024.D
Injection Date: 20-JAN-2023 23:49
Lab ID:22L0459-07 Client ID:
Report Date: 01/24/2023 13:42

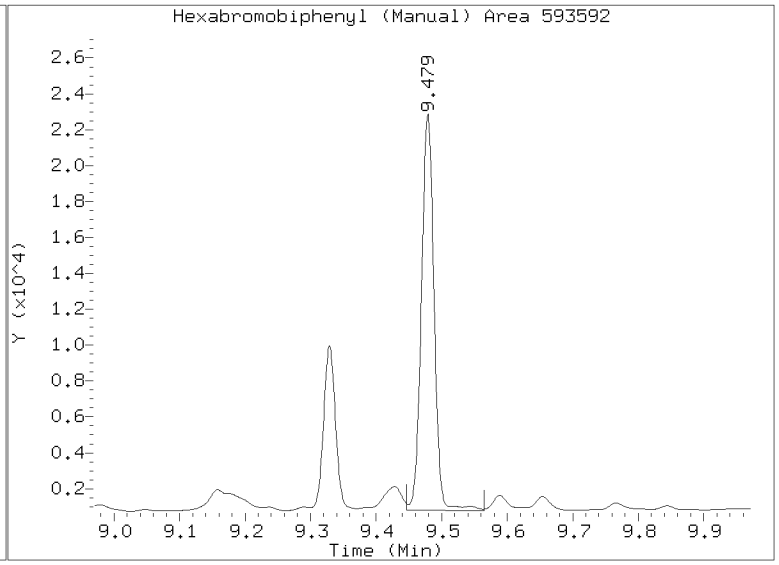






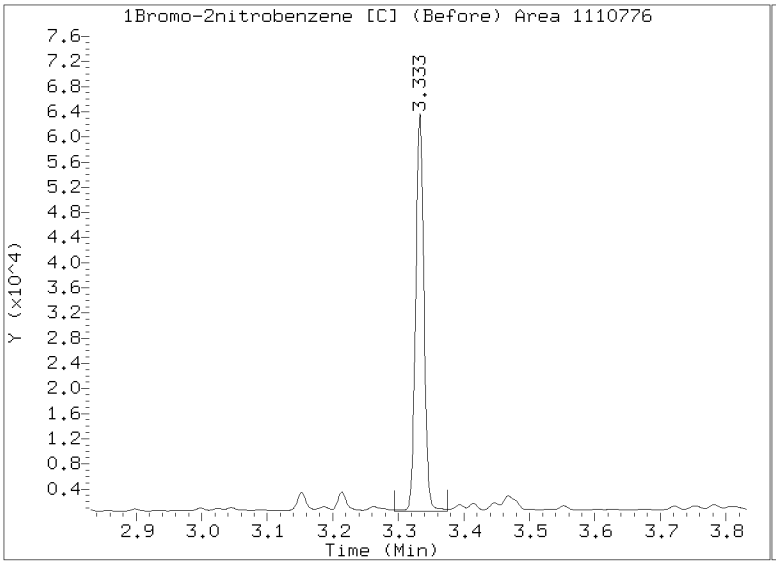


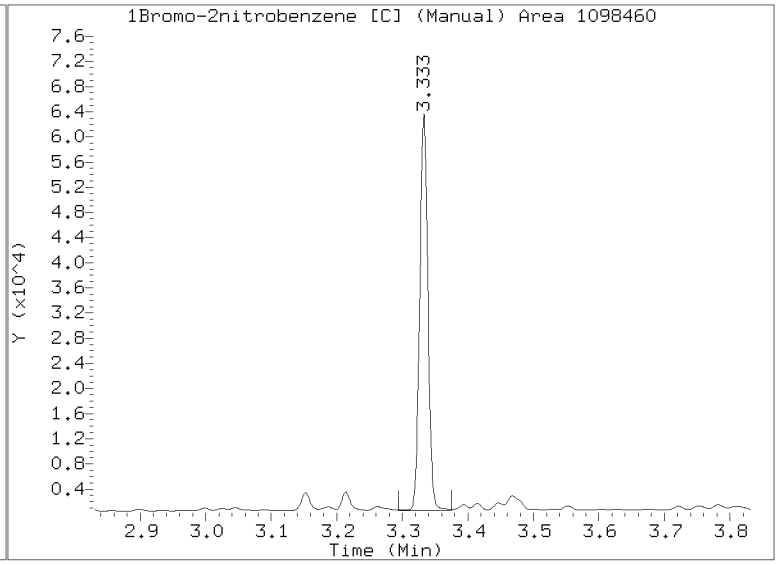


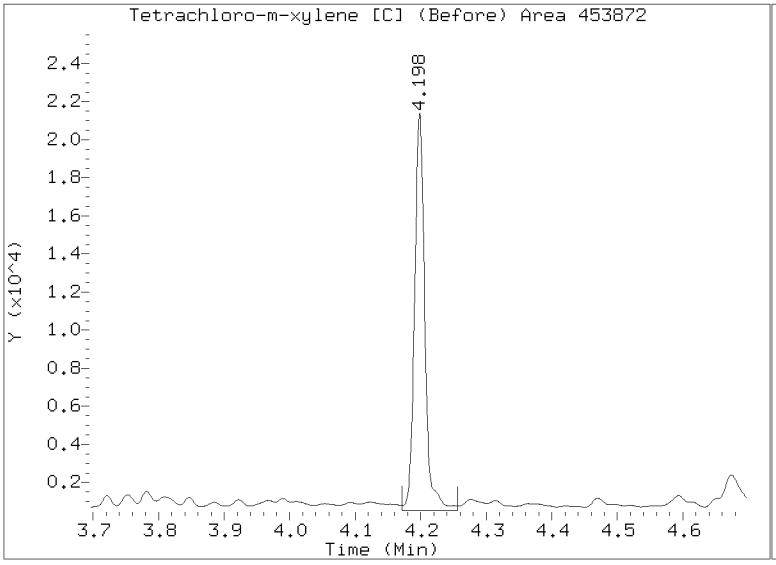


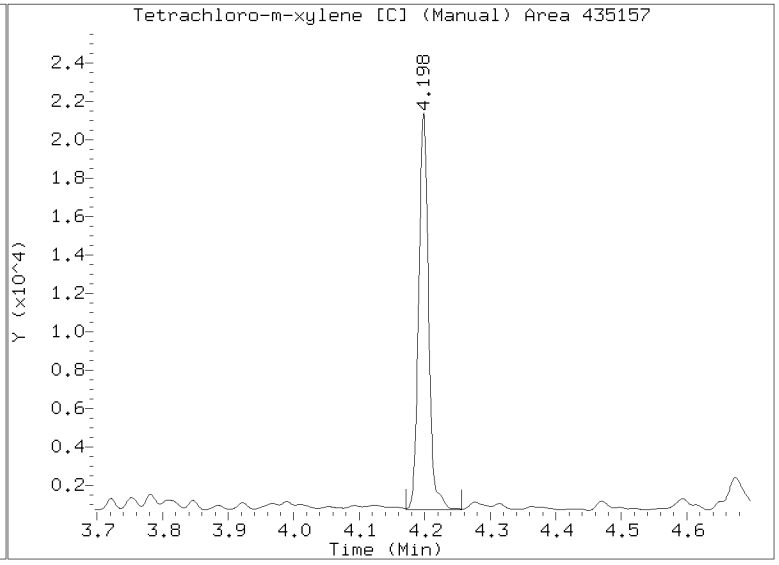
Manual Peak Adjustment Report, CLP-2

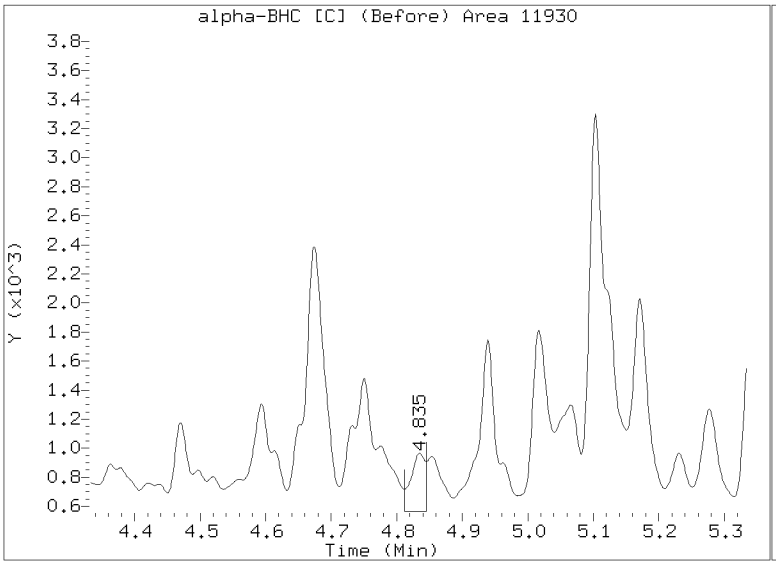
Datafile: /20230120.b/B20230120.b/23012024.D
Injection Date: 20-JAN-2023 23:49
Lab ID:22L0459-07 Client ID:

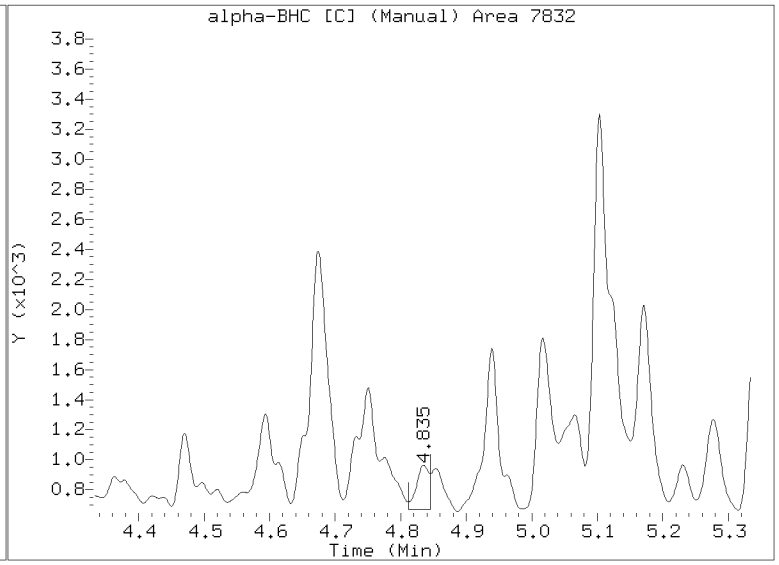












Manual Peak Adjustment Report, CLP-2

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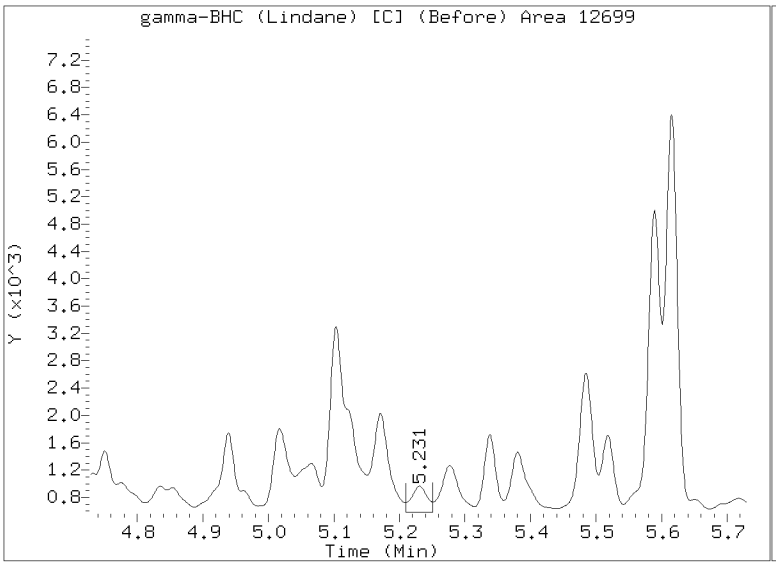
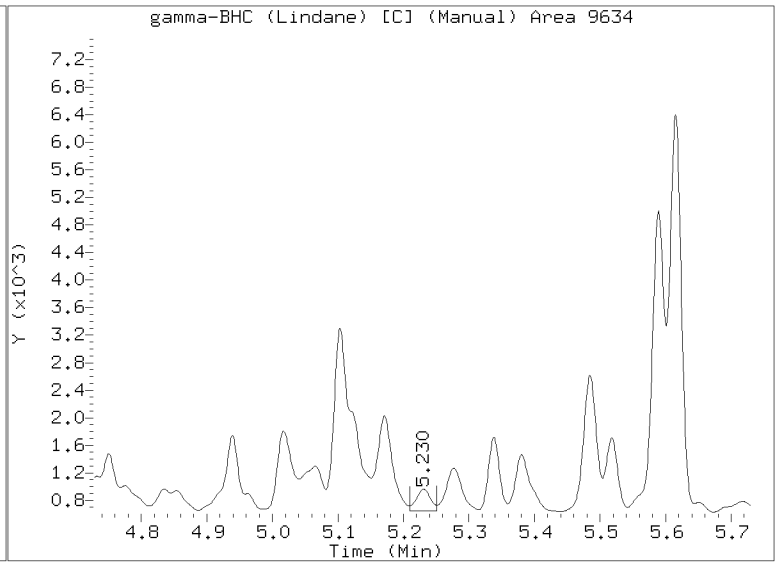
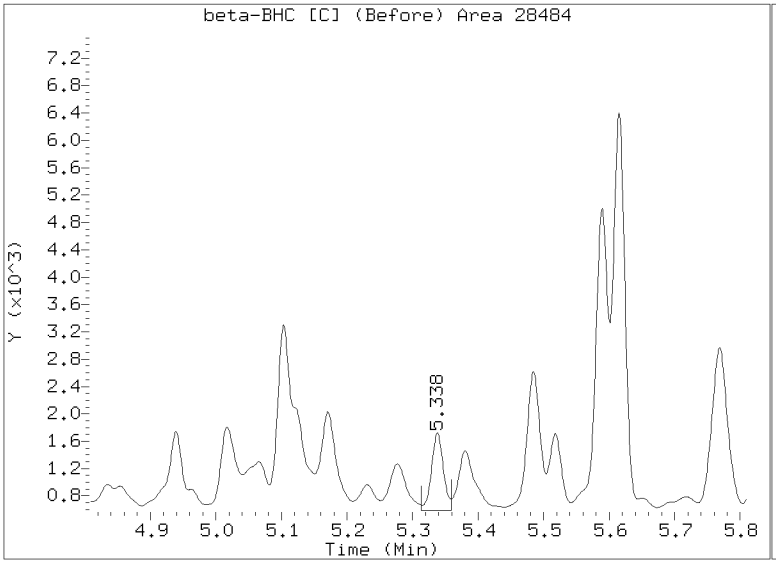
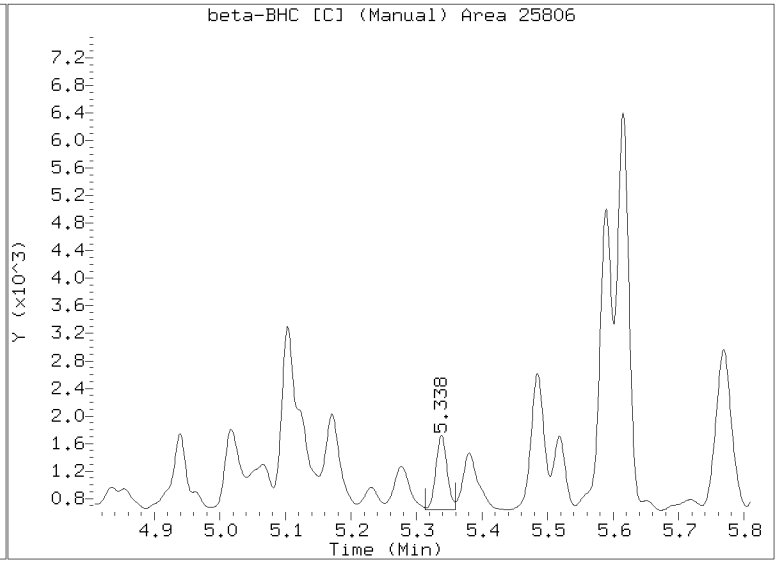
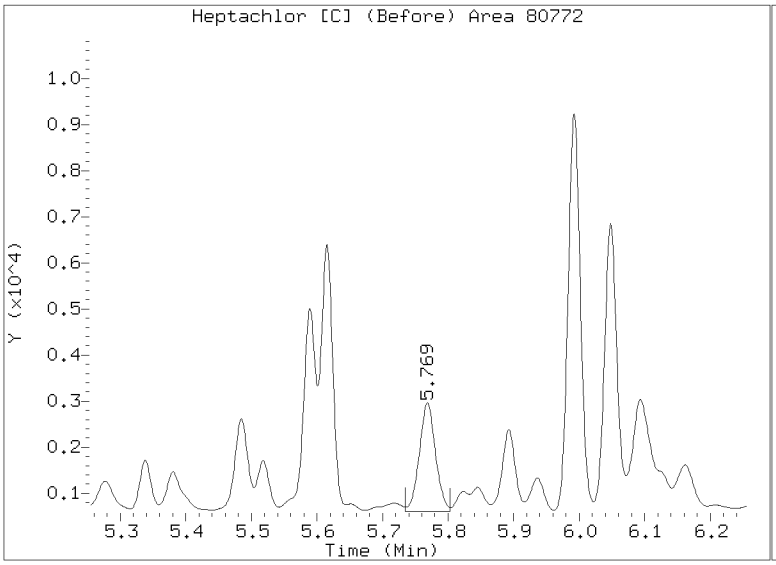
Injection Date: 20-JAN-2023 23:49
Lab ID:22L0459-07 Client ID:

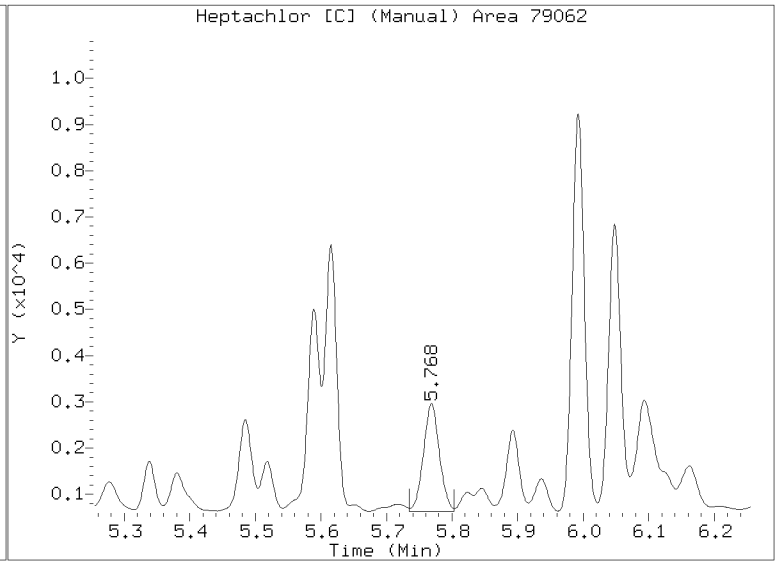












PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Batch: BLA0068 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1123B	22L0459-01	23012016.D	01/05/23 15:38	
LDW23-SC1053C	22L0459-02	23012017.D	01/05/23 15:38	
LDW23-SC1039C	22L0459-03	23012020.D	01/05/23 15:38	
LDW23-SC1007B	22L0459-04	23012021.D	01/05/23 15:38	
LDW23-SC1002C	22L0459-05	23012022.D	01/05/23 15:38	
LDW23-SC1070B	22L0459-06	23012023.D	01/05/23 15:38	
LDW23-SC1091B	22L0459-07	23012024.D	01/05/23 15:38	
Blank	BLA0068-BLK1	23012013.D	01/05/23 15:38	
LCS	BLA0068-BS1	23012014.D	01/05/23 15:38	
LCS Dup	BLA0068-BSD1	23012015.D	01/05/23 15:38	
LDW23-SC1053C	BLA0068-MS1	23012018.D	01/05/23 15:38	
LDW23-SC1053C	BLA0068-MSD1	23012019.D	01/05/23 15:38	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0068

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

Matrix: Solid Date Prepared: 1/5/2023 Balance ID: B139298002 Set Up By: JK 01/04/23

WO Comments

22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
62	Toxaphene
44	WND
QLS 10	QLS Spike

Analysis: 8081B Pest (PSDDA)

no ethyl acetate

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) GPC (1:1) 1 (2) 3	(Yes / No) Acid Clean 5mL	(REQ) Sulfur C/U ~~4.5mL+0.5 mL Ethyl Acetate~~ 1/4/23	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0459-01 A	56.6	(22.07)	22.12	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
22L0459-02 A	57.9	(21.60)	21.62	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
22L0459-03 A	55.0	(22.72)	22.73	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
22L0459-04 A	56.4	(22.18)	22.19	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
22L0459-05 A	54.6	(22.90)	22.92	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
22L0459-06 A	52.4	(23.87)	23.91	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
22L0459-07 A	61.1	(20.45)	20.49	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) GPC (1:1) 1 (2) 3	(Yes / No) Acid Clean 5mL	(REQ) Sulfur C/U 4.5mL+0.5 mL Ethyl Acetate	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLA0068-BLK1	100.0	(12.50)	12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLA0068-BS1	100.0	(12.50)	12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLA0068-BSD1	100.0	(12.50)	12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLA0068-MS1	57.9	(21.60)	21.62	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	Use 22L0459-02
BLA0068-MSD1	57.9	(21.60)	21.62	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	Use 22L0459-02

CR 1/5/2023 — Client ID verified By / Date

AA 1-18-23 — Preparation Reviewed By / Date

01/05/23 15:38 — Extraction Date and Time

Printed: 1/4/2023 4:09:34PM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0068

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

WO Comments

22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps	Reagents Used		
Microwave 1 2 3 Φ1/Φ6/23 CT Analyst/Date	**Station/Reagent**		**Standard ID**
	Microwave **Analyst:** CT/CT	**Date:** Φ1/Φ6/23	
	Hexane		KΦ11373
	80:20 Hexane/Acetone		KΦ1Φ953
	1:1 Hexane/Acetone		KΦ11642
	Neutral Glass Wool		KΦ11634
	Anhydrous Sodium Sulfate		KΦ11753
Pre GPC KD 100°C (No Exchange) 3 4 5 6 CP 1/9/23 Analyst/Date	**Pre GPC KD** **Analyst:** CP	**Date:** 1/9/23	
	Hexane		K011373
	Anhydrous Sodium Sulfate		
	Neutral Glass Wool		
TurboVap **Pre GPC** 1 2 3 4 5 TWC 1/11/23 Analyst/Date	**GPC Filter Prep** **Analyst:** LJ	**Date:** 1/9/23	
	Methylene Chloride		K005942
Post GPC KD 80 - 85°C Hexane Exchange (2 X 20 mL) 100°C 1 2 3 4 5 6 CP 1/13/23 Analyst/Date	**GPC** **Analyst:** TWC	**Date:** 1/11/23	
	Methylene Chloride		KΦ05942
	GPC Calibration File		CkkΦ135-GPC2
TurboVap **Pre-Cleanups** 1 2 3 4 5 NRB 1/16/23 Analyst/Date	**Post GPC KD** **Analyst:** CP	**Date:** 1/13/23	
	Methylene Chloride		K005942
	Hexane		K011373
TurboVap **Post-Cleanups** 1 2 3 4 5 AA 1-18-23 Analyst/Date	**Vialing** **Analyst:** AA	**Date:** 1-18-23	
	Hexane		K008310
	Sulfuric Acid		K010364
	Ethyl Acetate	no ethyl acetate	
	Tetrabutylammonium hydrogensulfate (TBAS)		K011885
Vialing AA 1-18-23 Analyst/Date	Sodium Sulfite		K011573
	Silica Gel (SPE) Darts		K010363

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N ① K010600 K011752 Exp Date: 1/23/2Φ23	50µL	CT	✓
Spike (Freezer) 0.5/1/5µg/mL	3 K011471 Exp Date: 6/14/2Φ23	100µL	CT	✓

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

① JR 01/05/23

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0068

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

WO Comments

22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessels. 3. Add 1:1 Hex/ACE to the vessels (until solvent is 3" above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 15 min in cold water. Re-homogenize while cool. 7. Decant 1:1 Hex/ACE into Erlenmeyer flask using a funnel containing neutral glasswool. 8. Rinse with Hexane. 9. Microwave a 2nd time using 8:2 Hex/Ace (until solvent is 3" above soil layer after homogenization). 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with Hexane. 11. KD to 5mL at 100°C. (NO HEXANE EXCHANGE). 12. TurboVap 13. GPC 14. After GPC: KD at 80 - 85°C 15. Exchange to Hexane at 100°C 2 x 20 mL). 16. TurboVap. 17. Cleanups, If Acid cleaning do not add Ethyl Acetate for Sulfur Clean. Do Not Acid Clean if Acid liable compounds are requested. 18. Vial in Hexane. A. Need Total Solids Y / N B. Archive/Freeze Y / N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PEST Extraction Batch BLA0468

Total Solids Batch: BLL0664 Work Order(s): 22L0459

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 01-07	CR 12/30/22
[X] Standing Water Decanted (Not shared)= 07	CR 12/30/22
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[X] Previously Frozen = 01-07	CR 12/30/22
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
[X] Share Samples Y / (N)	CR 12/30/22
[X] Multiple Jars Y / (N)	CR 12/30/22
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

-BLK

BLA0068/64 22L0459 PET/SVOC

PEST

Date:2023-01-11,12:14:51 PM
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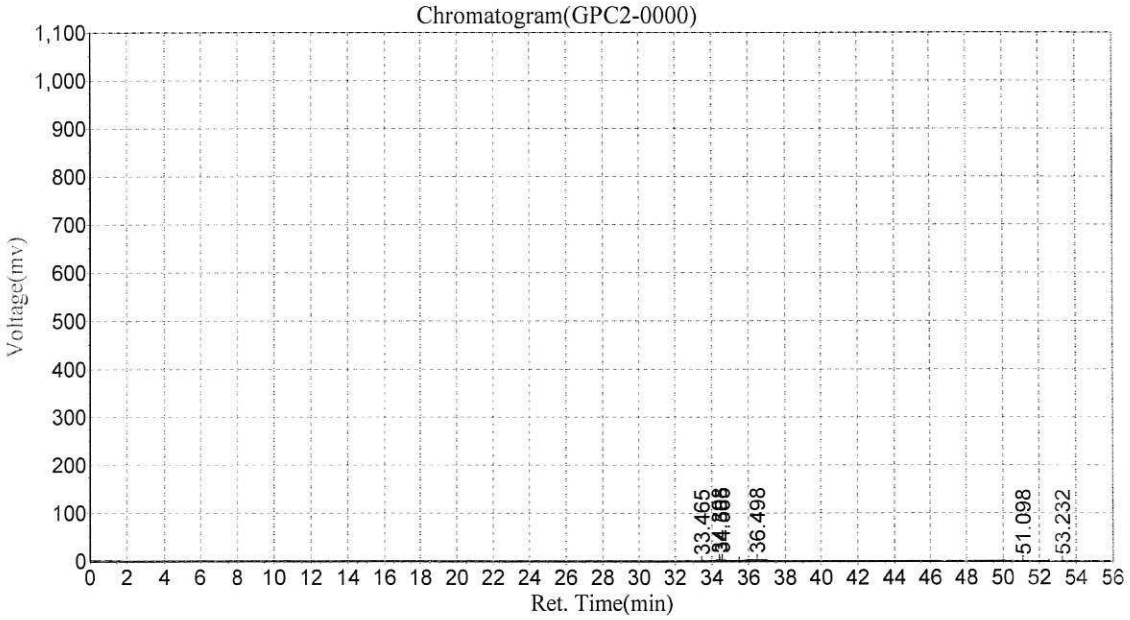
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-11,12:14:52 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		33.465	3419.543	104962.648	7.2590
2		34.398	6129.623	277557.063	19.1953
3		34.565	6149.565	318528.219	22.0287
4		36.498	4518.303	460684.250	31.8599
5		51.098	2144.818	150548.016	10.4116
6		53.232	2049.000	133686.719	9.2455
Total			24410.852	1445966.914	100.000

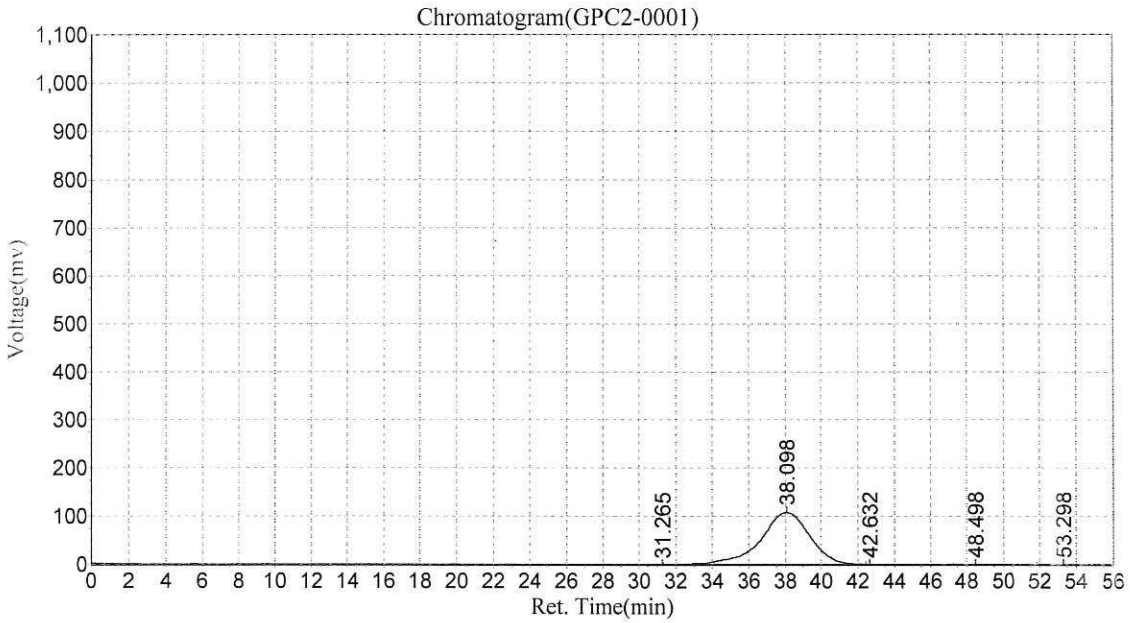
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-11,1:12:36 PM
Data File:c:\n2000\data\gpc2\011123\GPC2-0001
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-11,1:12:36 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		31.265	3912.608	137974.516	0.5903
2		38.098	111451.953	22820654.000	97.6272
3		42.632	2729.162	135513.359	0.5797
4		48.498	1977.145	180545.953	0.7724
5		53.298	1562.250	100605.203	0.4304
Total			121633.118	23375293.031	100.000

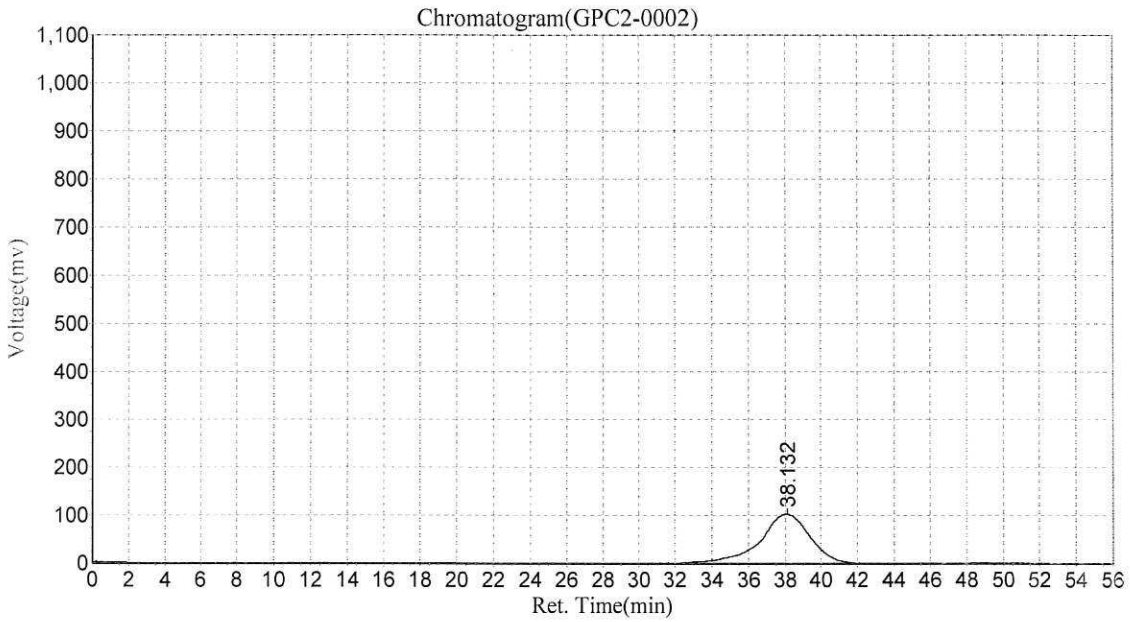
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 ~~PET/SVOC~~ BSD1 PEST

Date:2023-01-11,2:10:19 PM
Data File:c:\n2000\data\gpc2\011123\GPC2-0002
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-11,2:10:19 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		38.132	105854.648	21640144.000	100.0000
Total			105854.648	21640144.000	100.000

Ingredient Table

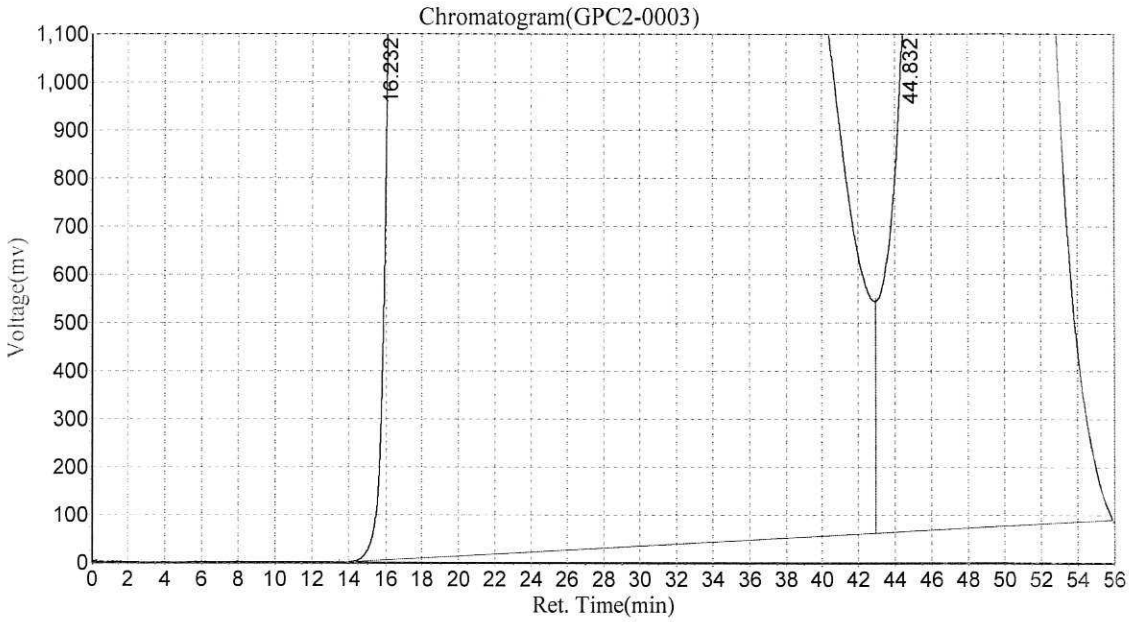
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 ~~PET~~/SVOC

Pest

Date:2023-01-11,3:08:02 PM
Data File:c:\n2000\data\gpc2\011123\GPC2-0003
Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
Date/Time2023-01-11,3:08:02 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.232	1372705.250	2060810752.000	72.7776
2		44.832	1310048.500	770845440.000	27.2224
Total			2682753.750	2831656192.000	100.000

Ingredient Table

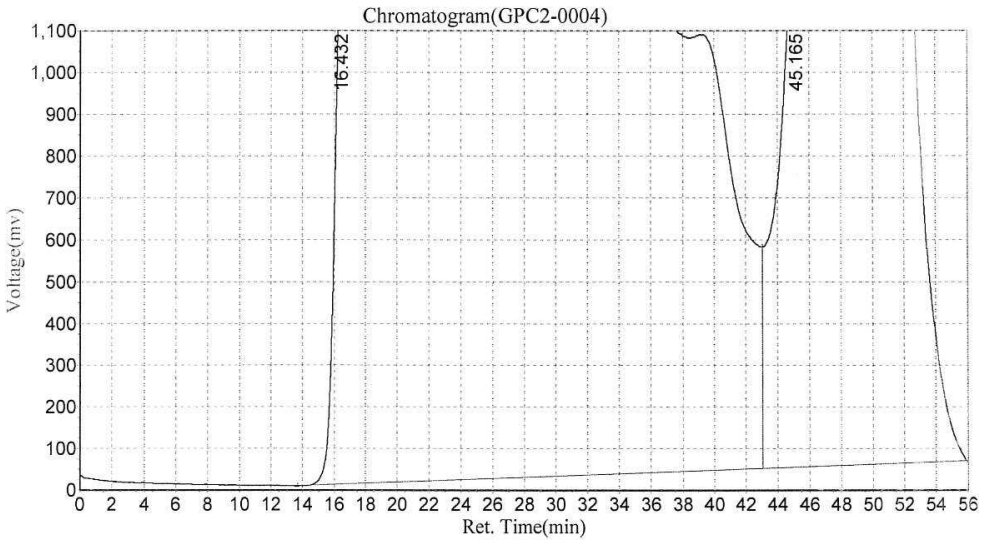
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 ~~PET~~/SVOC

PEST

Date:2023-01-11,4:05:43 PM
Data File:c:\n2000\data\gpc2\011123\GPC2-0004
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-11,4:05:44 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.432	1365677.125	1974356992.000	72.2623
2		45.165	1321111.125	757851456.000	27.7377
Total			2686788.250	2732208448.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

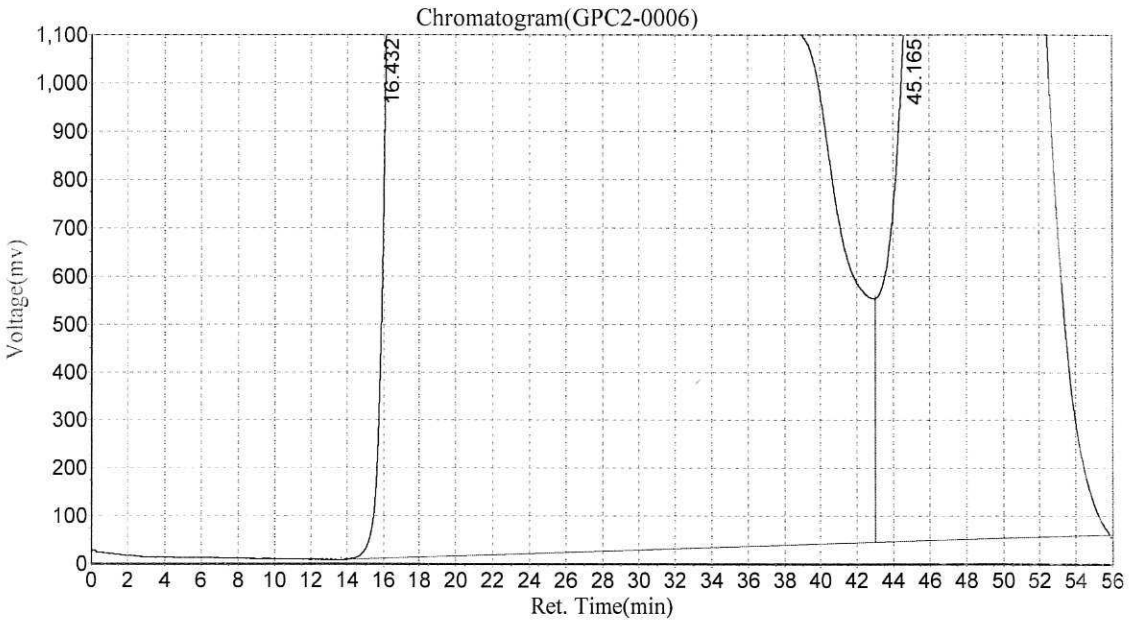
2023-01-11 Analytical Resources, Inc. Inc.

MSD1

BLA0068/64 22L0459 ~~PET/SVOC~~ PEST

Date:2023-01-11,6:01:08 PM
Data File:c:\n2000\data\gpc2\011123\GPC2-0006
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-11,6:01:10 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.432	1366836.250	1986896768.000	72.6894
2		45.165	1328903.375	746511616.000	27.3107
Total			2695739.625	2733408384.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 ~~PET~~/SVOC

Pest

Date:2023-01-11,6:58:52 PM
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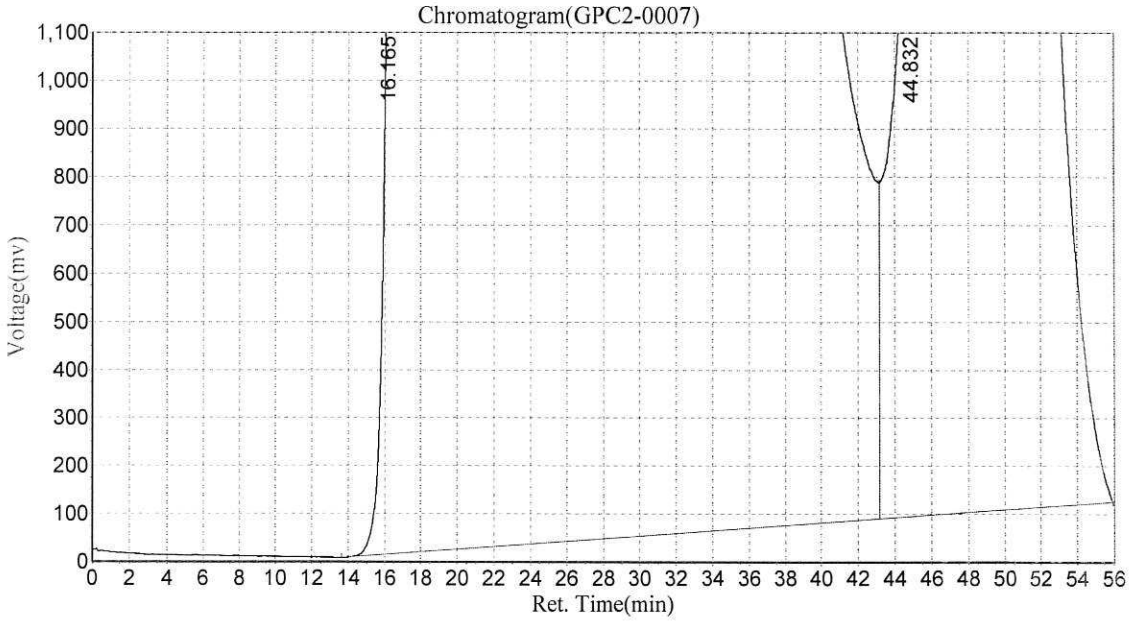
Analyst£°TWC
Date/Time2023-01-11,6:58:54 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.165	1363511.000	2103938816.000	72.8646
2		44.832	1281142.750	783524864.000	27.1354
Total			2644653.750	2887463680.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 ~~PET/SVOC~~ pest

Date:2023-01-11,7:56:34 PM
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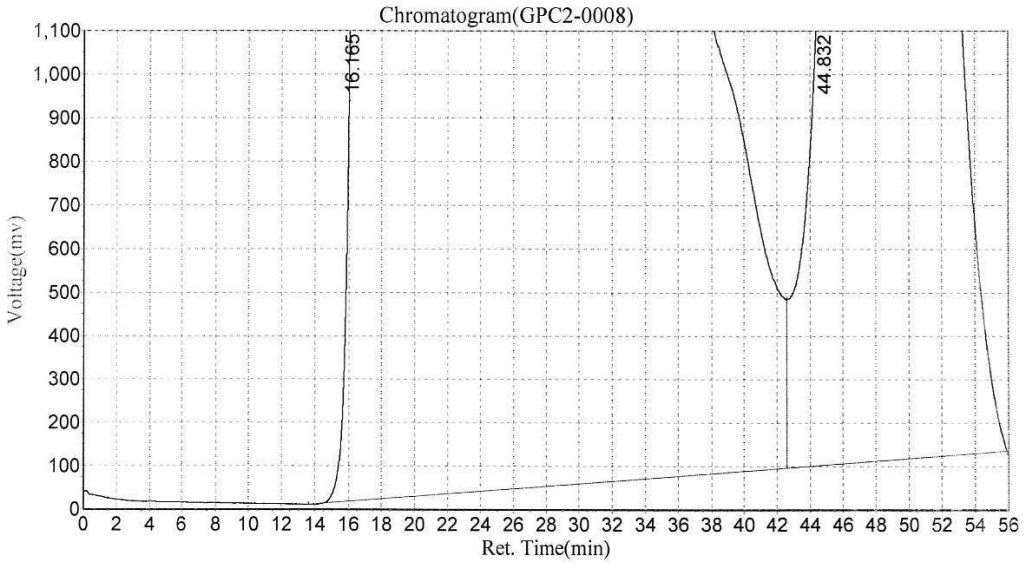
Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
Date/Time2023-01-11,7:56:35 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.165	1360735.750	1936382592.000	71.1696
2		44.832	1273385.375	784415808.000	28.8304
Total			2634121.125	2720798400.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 PET/SVOC

Date:2023-01-11,9:51:59 PM
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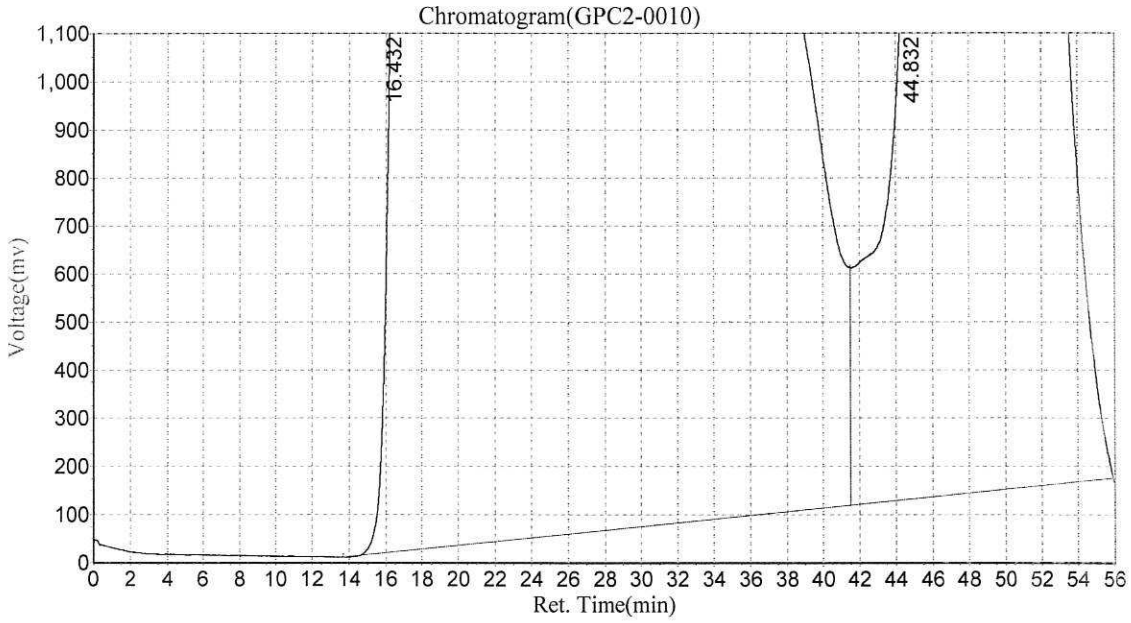
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-11,9:52:00 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.432	1356791.500	1901474816.000	69.7116
2		44.832	1243219.625	826155968.000	30.2884
Total			2600011.125	2727630784.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BLA0068/64 22L0459 ~~PET/SVOC~~ Pest

Date:2023-01-11,10:49:43 PM
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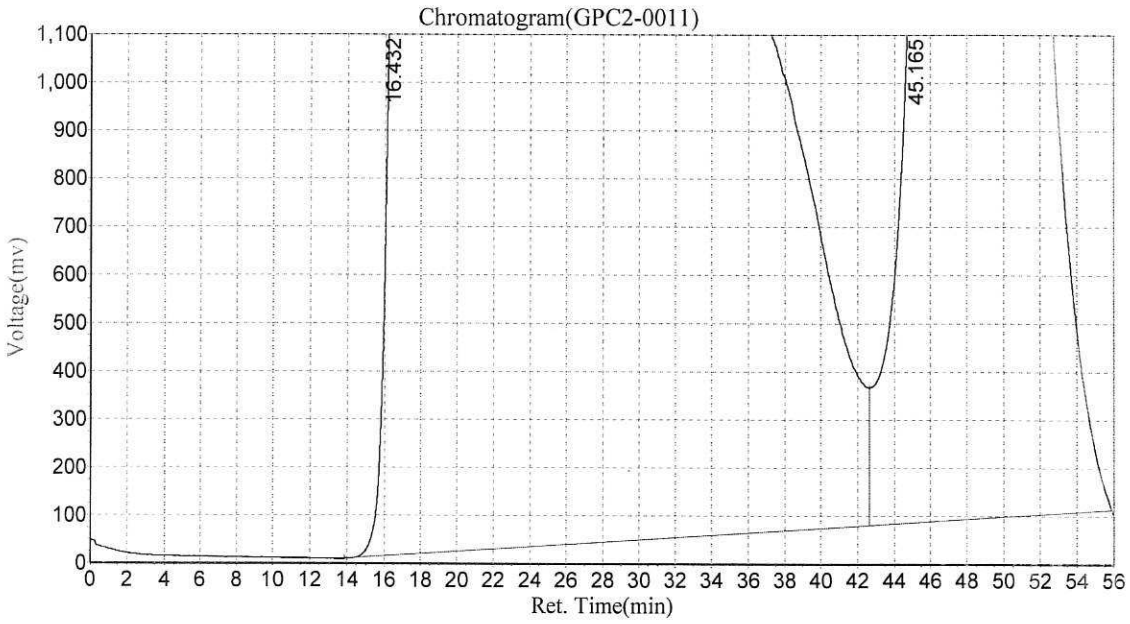
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-11,10:49:44 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.432	1363411.875	1821559680.000	71.1879
2		45.165	1289721.375	737246848.000	28.8121
Total			2653133.250	2558806528.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLA0159	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1039C	22L0459-03	23012020.D	01/18/2023	
Matrix Spike Dup	BLA0068-MSD1	23012019.D	01/18/2023	
Matrix Spike	BLA0068-MS1	23012018.D	01/18/2023	
LDW23-SC1123B	22L0459-01	23012016.D	01/18/2023	
LDW23-SC1091B	22L0459-07	23012024.D	01/18/2023	
LDW23-SC1053C	22L0459-02	23012017.D	01/18/2023	
LCS	BLA0068-BS1	23012014.D	01/18/2023	
LDW23-SC1007B	22L0459-04	23012021.D	01/18/2023	
LDW23-SC1002C	22L0459-05	23012022.D	01/18/2023	
LCS Dup	BLA0068-BSD1	23012015.D	01/18/2023	
Blank	BLA0068-BLK1	23012013.D	01/18/2023	
LDW23-SC1070B	22L0459-06	23012023.D	01/18/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLA0160	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1039C	22L0459-03	23012020.D	01/18/2023	
LCS Dup	BLA0068-BSD1	23012015.D	01/18/2023	
Matrix Spike	BLA0068-MS1	23012018.D	01/18/2023	
Matrix Spike Dup	BLA0068-MSD1	23012019.D	01/18/2023	
LCS	BLA0068-BS1	23012014.D	01/18/2023	
LDW23-SC1123B	22L0459-01	23012016.D	01/18/2023	
LDW23-SC1091B	22L0459-07	23012024.D	01/18/2023	
LDW23-SC1053C	22L0459-02	23012017.D	01/18/2023	
Blank	BLA0068-BLK1	23012013.D	01/18/2023	
LDW23-SC1007B	22L0459-04	23012021.D	01/18/2023	
LDW23-SC1002C	22L0459-05	23012022.D	01/18/2023	
LDW23-SC1070B	22L0459-06	23012023.D	01/18/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0160

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 1/18/2023 5:09:18PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0459-01	A	LDW23-SC1123B	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-02	A	LDW23-SC1053C	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-03	A	LDW23-SC1039C	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-04	A	LDW23-SC1007B	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-05	A	LDW23-SC1002C	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-06	A	LDW23-SC1070B	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-07	A	LDW23-SC1091B	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
BLA0068-BLK1	-	Blank	-	2.5	2.5	-	1/18/2023	AA	
BLA0068-BS1	-	LCS	-	2.5	2.5	-	1/18/2023	AA	
BLA0068-BSD1	-	LCS Dup	-	2.5	2.5	-	1/18/2023	AA	
BLA0068-MS1	-	Matrix Spike	-	2.5	2.5	-	1/18/2023	AA	
BLA0068-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/18/2023	AA	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLA0161	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1039C	22L0459-03	23012020.D	01/18/2023	
Matrix Spike	BLA0068-MS1	23012018.D	01/18/2023	
LCS Dup	BLA0068-BSD1	23012015.D	01/18/2023	
LCS	BLA0068-BS1	23012014.D	01/18/2023	
Blank	BLA0068-BLK1	23012013.D	01/18/2023	
LDW23-SC1123B	22L0459-01	23012016.D	01/18/2023	
LDW23-SC1091B	22L0459-07	23012024.D	01/18/2023	
Matrix Spike Dup	BLA0068-MSD1	23012019.D	01/18/2023	
LDW23-SC1053C	22L0459-02	23012017.D	01/18/2023	
LDW23-SC1007B	22L0459-04	23012021.D	01/18/2023	
LDW23-SC1002C	22L0459-05	23012022.D	01/18/2023	
LDW23-SC1070B	22L0459-06	23012023.D	01/18/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0161

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 1/18/2023 5:10:41PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0459-01	A	LDW23-SC1123B	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-02	A	LDW23-SC1053C	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-03	A	LDW23-SC1039C	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-04	A	LDW23-SC1007B	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-05	A	LDW23-SC1002C	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-06	A	LDW23-SC1070B	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
22L0459-07	A	LDW23-SC1091B	A 02	2.5	2.5	8081B Pest (PSDDA)	1/18/2023	AA	
BLA0068-BLK1	-	Blank	-	2.5	2.5	-	1/18/2023	AA	
BLA0068-BS1	-	LCS	-	2.5	2.5	-	1/18/2023	AA	
BLA0068-BSD1	-	LCS Dup	-	2.5	2.5	-	1/18/2023	AA	
BLA0068-MS1	-	Matrix Spike	-	2.5	2.5	-	1/18/2023	AA	
BLA0068-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/18/2023	AA	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8081B

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLA0068-BLK1	File ID:	23012013.D
Sampled:	N/A	Prepared:	01/05/23 15:38	Analyzed:	01/20/23 20:33
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BLA0068	Sequence:	SLA0279	Calibration:	FL00041
Instrument:	ECD6	Column:	STX-CLP	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
118-74-1	Hexachlorobenzene	1	0.50	U	0.15	0.50

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	7.30	91.3	30 - 160	
Decachlorobiphenyl [2C]	8.0000	7.32	91.5	30 - 160	
Tetrachlorometaxylene	8.0000	5.48	68.5	30 - 160	
Tetrachlorometaxylene [2C]	8.0000	5.36	67.0	30 - 160	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012013.D
Data file 2: /20230120.b/B20230120.b/23012013.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLA0068-BLK1
Client ID:
Injection Date: 20-JAN-2023 20:33
Report Date: 01/25/2023 06:58
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			4.837	0.003	1277	0.00	0.05	---	alpha-BHC
----			5.292	-0.018	1376	0.00	0.14	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			5.784	0.028	1030	0.00	0.05	---	Heptachlor
----			6.161	0.002	24665	0.00	1.11	---	Aldrin
----			6.820	0.005	3058	0.00	0.17	---	Heptachlor epoxide b
----			7.285	0.026	2934	0.00	0.18	---	Endosulfan I
----			7.565	0.012	1322	0.00	0.07	---	Dieldrin
----			7.340	-0.003	533	0.00	0.03	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			8.080	-0.009	1354	0.00	0.11	---	Endosulfan II
----			7.938	-0.011	2184	0.00	0.19	---	4,4'-DDD
----			8.660	-0.027	1365	0.00	0.13	---	Endosulfan sulfate
7.397	0.002	3644	8.264	-0.003	2053	0.43	0.19	78.4*	4,4'-DDT
7.874	-0.008	5927	8.911	0.002	4422	1.57	0.91	53.3*	Methoxychlor
8.415	-0.004	2952	9.199	-0.011	8443	0.32	0.74	78.9*	Endrin ketone
----			8.409	-0.010	4402	0.00	0.52	---	Endrin aldehyde
6.257	0.023	5535	----			0.46	0.00	---	trans-Chlordane
6.404	0.023	4117	7.168	-0.018	1612	0.34	0.09	116.3*	cis-Chlordane
----			2.457	-0.029	232400	0.00	9.65	---	Hexachlorobutadiene
----			----			0.00	0.00	---	Hexachlorobenzene
3.806	0.002	307570	4.198	0.001	477300	27.38	26.79	2.2	Tetrachloro-m-xylene
9.325	0.001	264430	10.428	-0.002	333700	36.50	36.60	0.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

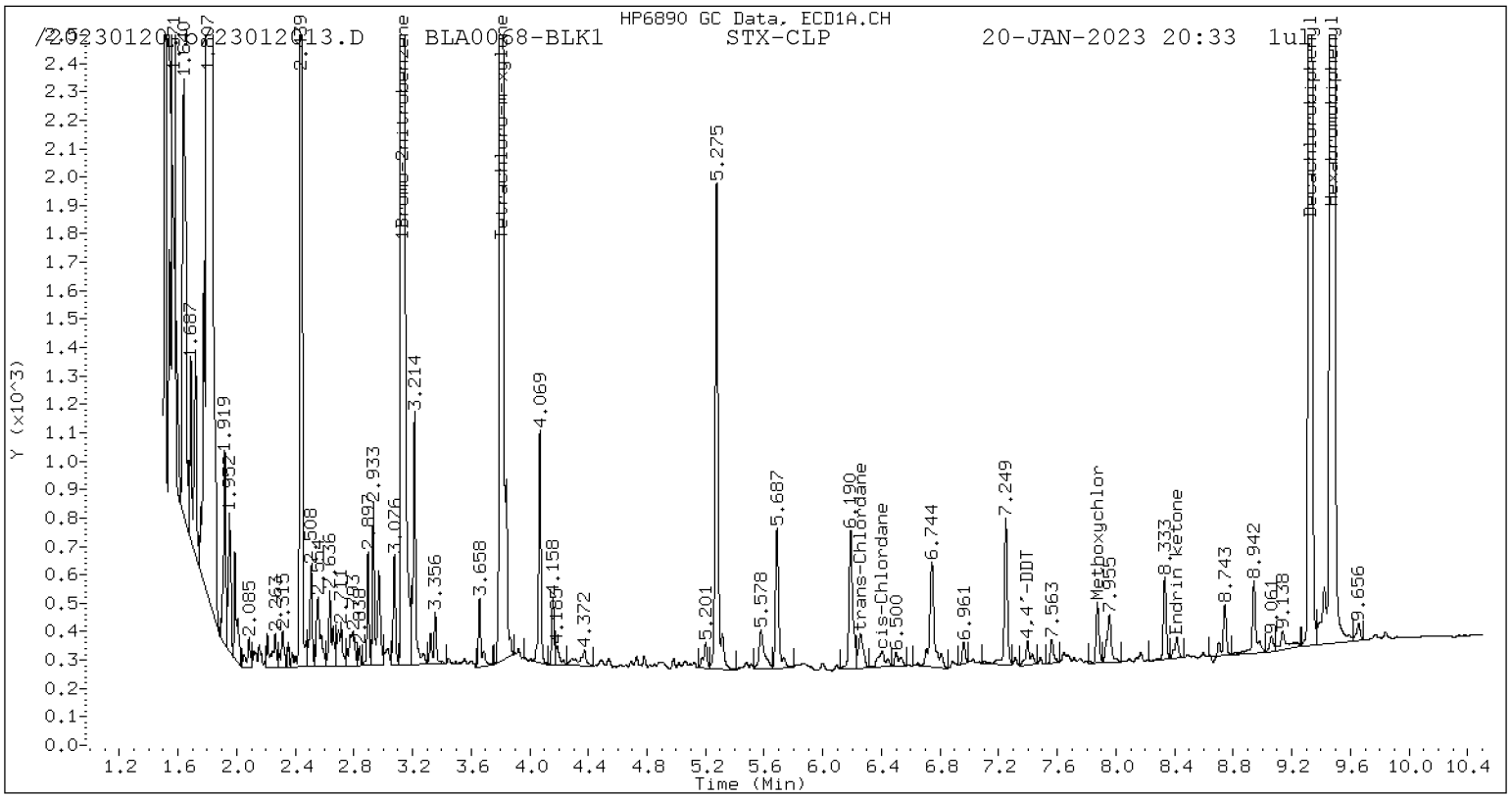
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	825929	22.8
Hexabromobiphenyl	609723	714944	17.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1265909	25.8
Hexabromobiphenyl	769764	824906	7.2

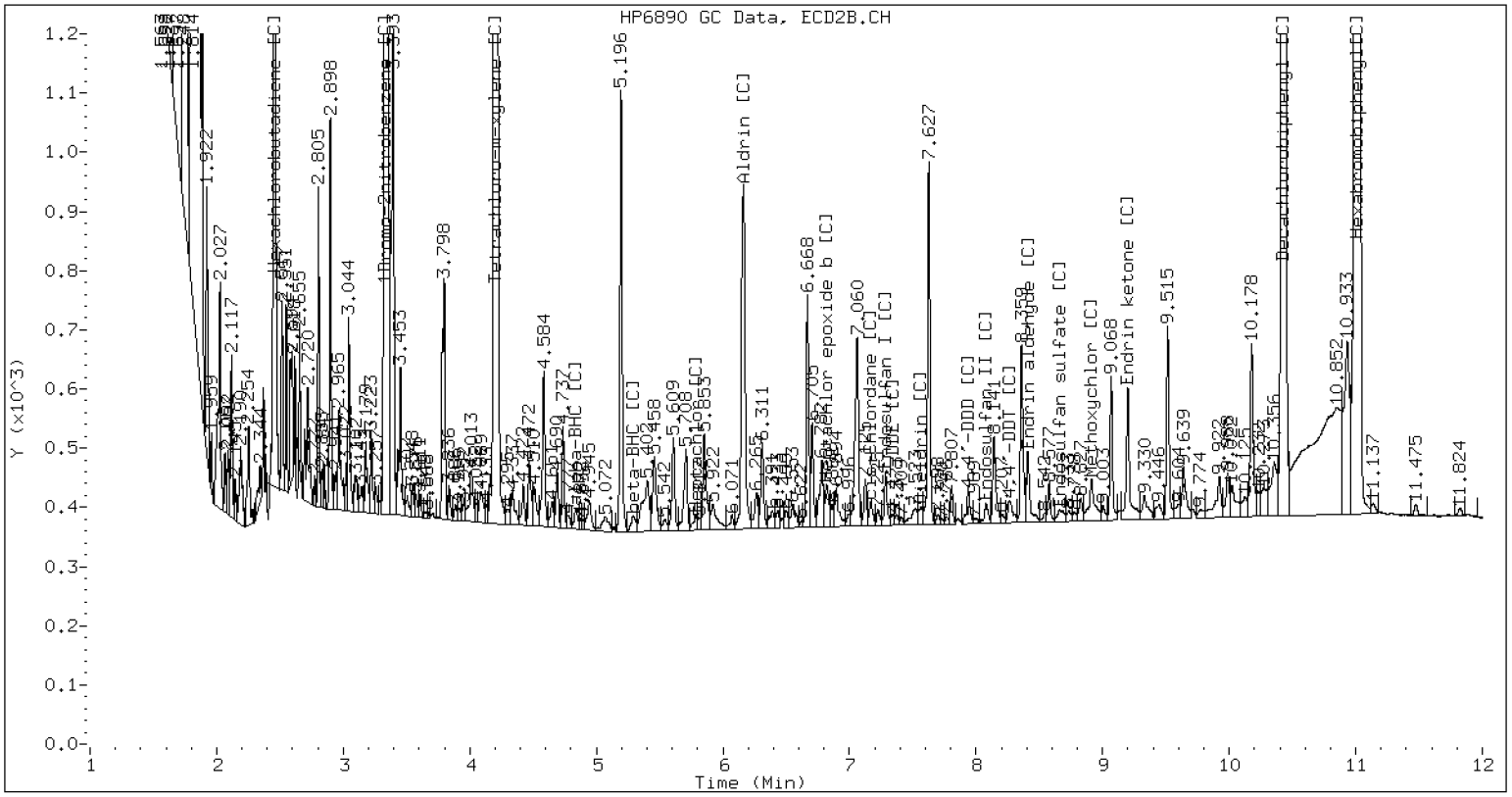
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230120.b/B20230120.b/23012013.D BLA0068-BLK1 CLP2



CLP-2 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/20/23 20:51
Batch:	BLA0068	Laboratory ID:	BLA0068-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Hexachlorobenzene	4.00	2.77		69.3	26 - 128

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachlorobenzene	4.00	3.57		89.3	25.3	30	26 - 128

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012014.D
Data file 2: /20230120.b/B20230120.b/23012014.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLA0068-BS1
Client ID:
Injection Date: 20-JAN-2023 20:51
Report Date: 01/24/2023 13:41
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.316	0.002	236480	4.834	0.000	354185	14.45	13.62	5.9	alpha-BHC
4.699	0.003	95610	5.310	0.000	143605	15.18	14.53	4.4	beta-BHC
4.881	0.002	218886	5.662	0.000	322070	16.37	15.04	8.5	delta-BHC
4.618	0.003	217772	5.230	0.001	327000	15.35	14.82	3.5	gamma-BHC (Lindane)
5.099	0.002	206700	5.756	0.000	302685	16.38	15.14	7.8	Heptachlor
5.421	0.003	206287	6.159	0.000	270187	14.58	11.84	20.8	Aldrin
6.095	0.003	184046	6.814	-0.001	276240	15.01	14.64	2.5	Heptachlor epoxide b
6.538	0.003	265122	7.258	-0.000	365657	23.56	21.99	6.9	Endosulfan I
----			7.560	0.008	3580	0.00	0.19	---	Dieldrin
6.457	0.003	357140	7.342	-0.001	497214	31.81	29.51	7.5	4,4'-DDE
----			7.884	0.007	4917	0.00	0.41	---	Endrin
7.284	0.002	67401	8.087	-0.001	78716	7.89	6.41	20.7	Endosulfan II
7.105	0.002	297102	7.949	-0.001	414861	34.74	35.60	2.5	4,4'-DDD
8.147	0.001	209479	8.686	-0.001	299705	25.81	27.79	7.4	Endosulfan sulfate
7.398	0.003	316456	8.267	-0.001	408841	36.62	36.35	0.7	4,4'-DDT
7.883	0.002	12848	8.908	-0.001	26581	3.35	5.34	45.7*	Methoxychlor
8.420	0.001	240446	9.210	-0.001	297925	25.87	25.58	1.1	Endrin ketone
7.714	0.003	34264	8.418	-0.001	47590	5.03	5.49	8.9	Endrin aldehyde
6.236	0.002	201354	7.026	-0.000	287058	16.17	15.25	5.8	trans-Chlordane
6.383	0.002	198398	7.185	-0.001	263696	15.88	14.32	10.3	cis-Chlordane
2.308	-0.000	202939	2.485	-0.001	295407	11.84	11.97	1.0	Hexachlorobutadiene
4.158	0.002	210451	4.694	0.001	294802	13.86	12.46	10.6	Hexachlorobenzene
3.806	0.002	336570	4.198	0.001	514165	29.12	28.16	3.4	Tetrachloro-m-xylene
9.326	0.002	239575	10.429	-0.002	336539	32.65	36.14	10.1	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

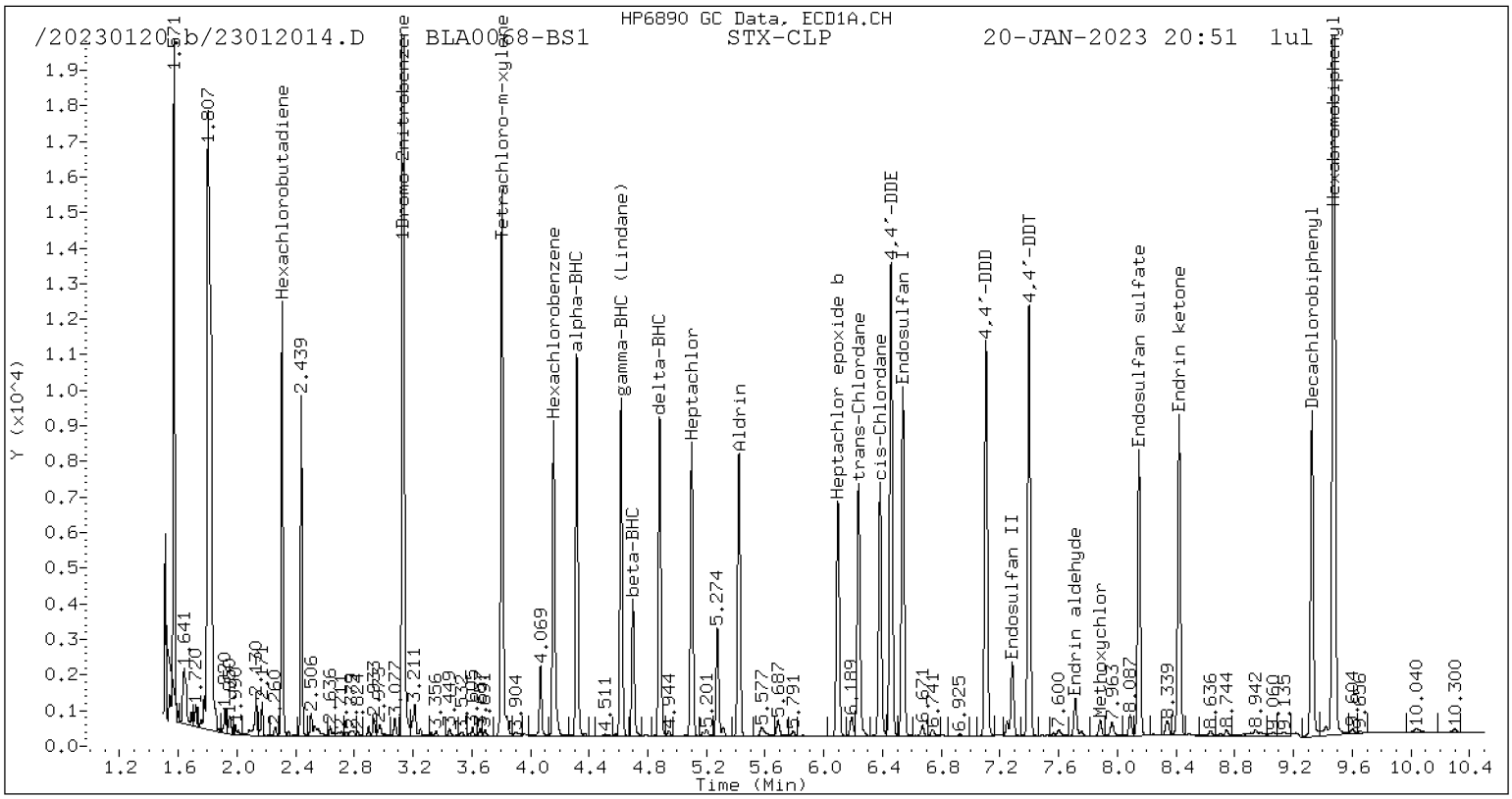
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	849781	26.4
Hexabromobiphenyl	609723	724128	18.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1297291	28.9
Hexabromobiphenyl	769764	842616	9.5

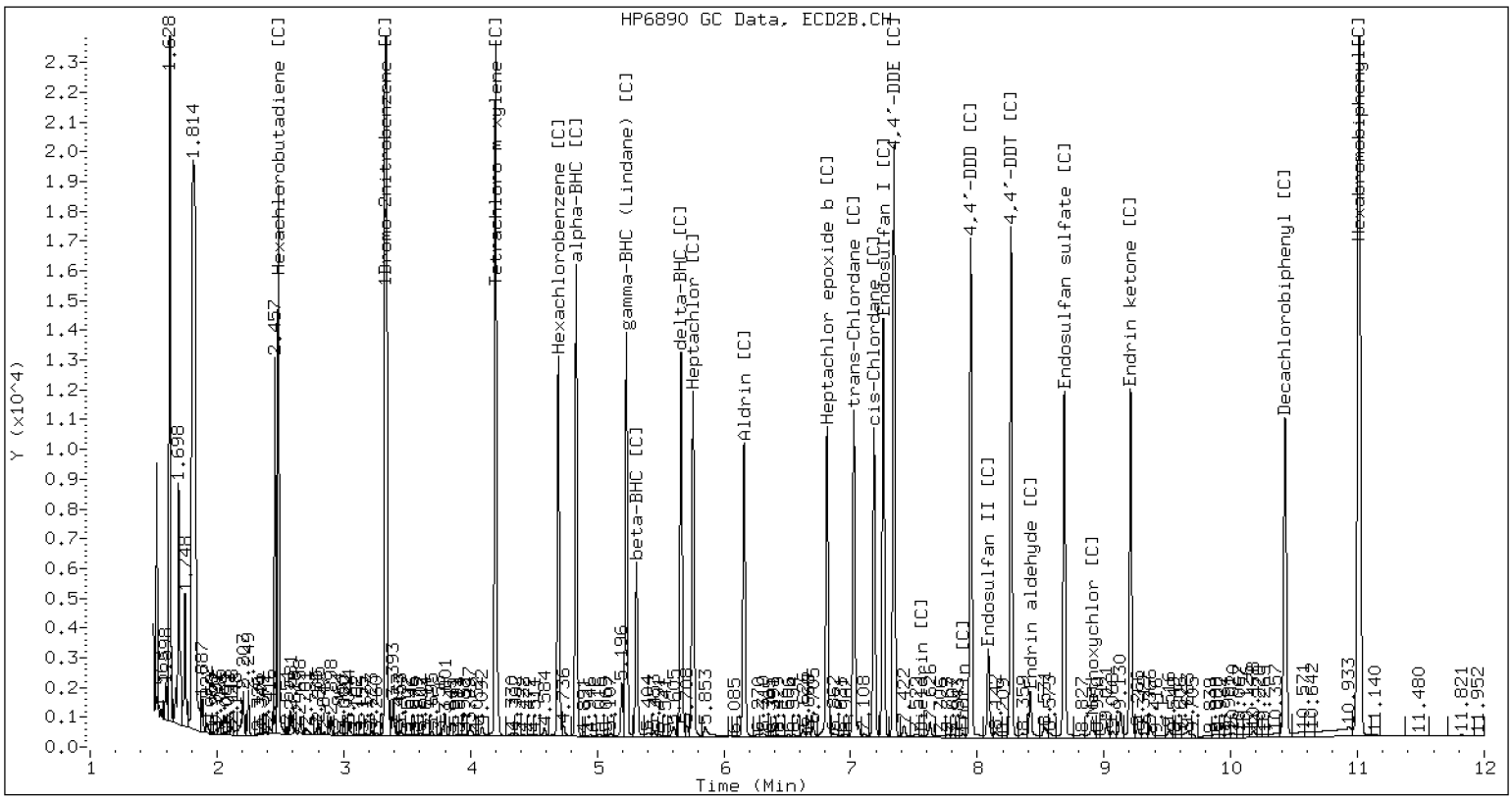
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230120.b/B20230120.b/23012014.D BLA0068-BS1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012015.D
Data file 2: /20230120.b/B20230120.b/23012015.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLA0068-BSD1
Client ID:
Injection Date: 20-JAN-2023 21:09
Report Date: 01/24/2023 13:41
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.316	0.003	250435	4.834	0.000	377671	15.76	14.98	5.1	alpha-BHC
4.699	0.003	99248	5.311	0.001	147891	16.22	15.43	5.0	beta-BHC
4.881	0.003	225684	5.662	-0.000	334028	17.38	16.08	7.7	delta-BHC
4.618	0.003	225831	5.230	0.000	340564	16.39	15.91	2.9	gamma-BHC (Lindane)
5.099	0.003	211892	5.756	0.000	311364	17.28	16.06	7.3	Heptachlor
5.421	0.003	213134	6.159	-0.000	277134	15.51	12.52	21.3	Aldrin
6.095	0.003	190434	6.814	-0.000	276026	15.99	15.08	5.8	Heptachlor epoxide b
6.538	0.003	269804	7.258	-0.000	369703	24.68	22.92	7.4	Endosulfan I
----			7.562	0.010	1859	0.00	0.10	---	Dieldrin
6.457	0.003	368962	7.342	-0.001	513086	33.83	31.39	7.5	4,4'-DDE
----			7.884	0.007	3281	0.00	0.28	---	Endrin
7.284	0.002	54676	8.088	-0.001	68928	6.56	5.74	13.3	Endosulfan II
7.105	0.003	306560	7.949	-0.000	423404	36.74	37.17	1.2	4,4'-DDD
8.147	0.002	216303	8.686	-0.001	297154	27.32	28.19	3.1	Endosulfan sulfate
7.398	0.003	327258	8.267	-0.001	424501	38.81	38.61	0.5	4,4'-DDT
7.883	0.002	8869	8.907	-0.002	21756	2.37	4.47	61.3*	Methoxychlor
8.421	0.002	252415	9.210	-0.001	305223	27.83	26.81	3.8	Endrin ketone
7.714	0.002	37227	8.418	-0.001	53882	5.60	6.36	12.8	Endrin aldehyde
6.237	0.003	199990	7.026	-0.001	290931	16.53	15.94	3.6	trans-Chlordane
6.383	0.002	196209	7.186	-0.001	269920	16.17	15.12	6.7	cis-Chlordane
2.308	0.000	235079	2.485	-0.001	322929	14.12	13.49	4.6	Hexachlorobutadiene
4.158	0.002	263620	4.694	0.001	393182	17.87	17.13	4.2	Hexachlorobenzene
3.806	0.002	348168	4.198	0.001	536663	31.02	30.30	2.3	Tetrachloro-m-xylene
9.326	0.002	263667	10.429	-0.001	351457	36.84	38.61	4.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

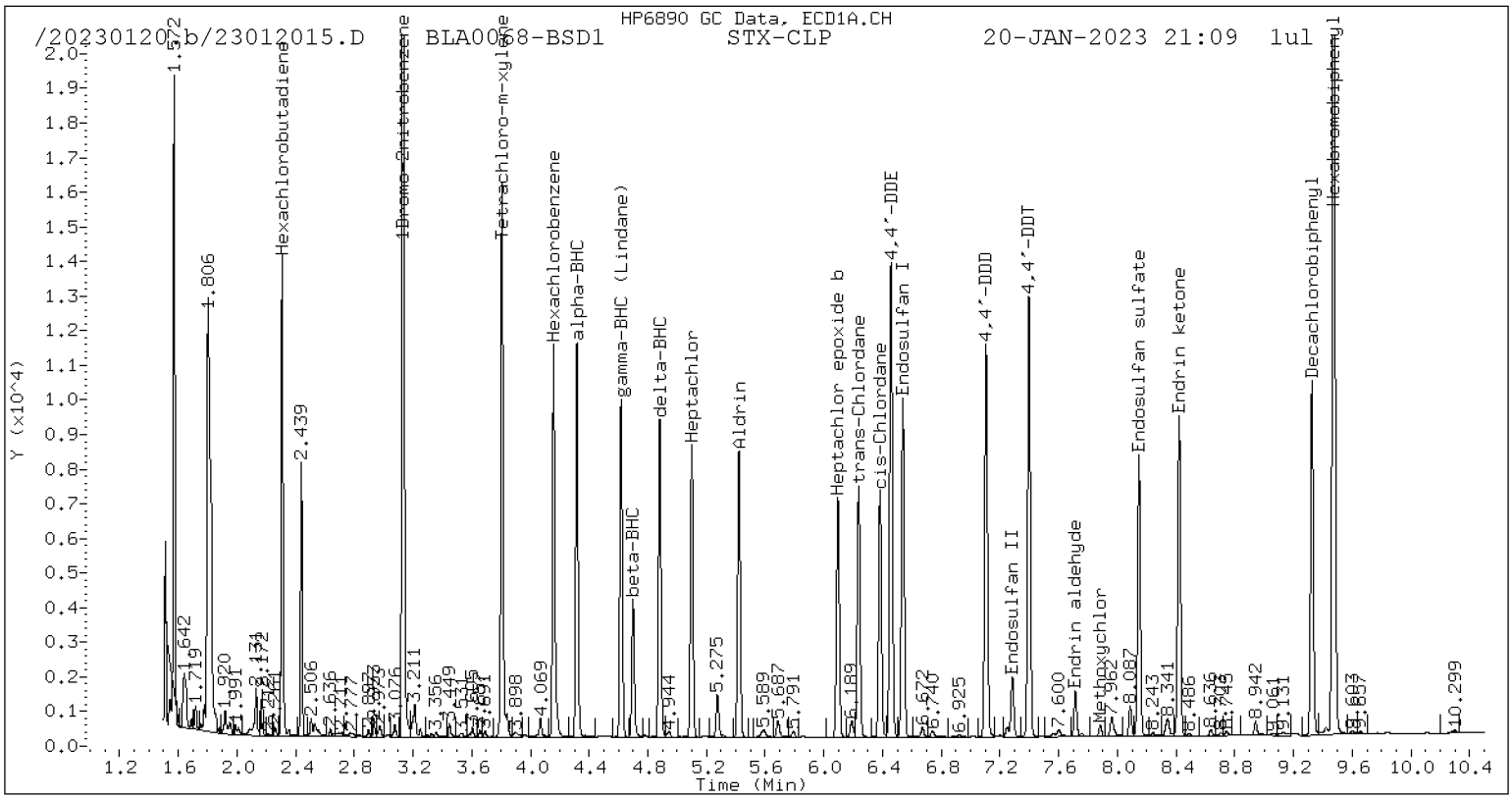
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	825460	22.8
Hexabromobiphenyl	609723	706422	15.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1258298	25.0
Hexabromobiphenyl	769764	823677	7.0

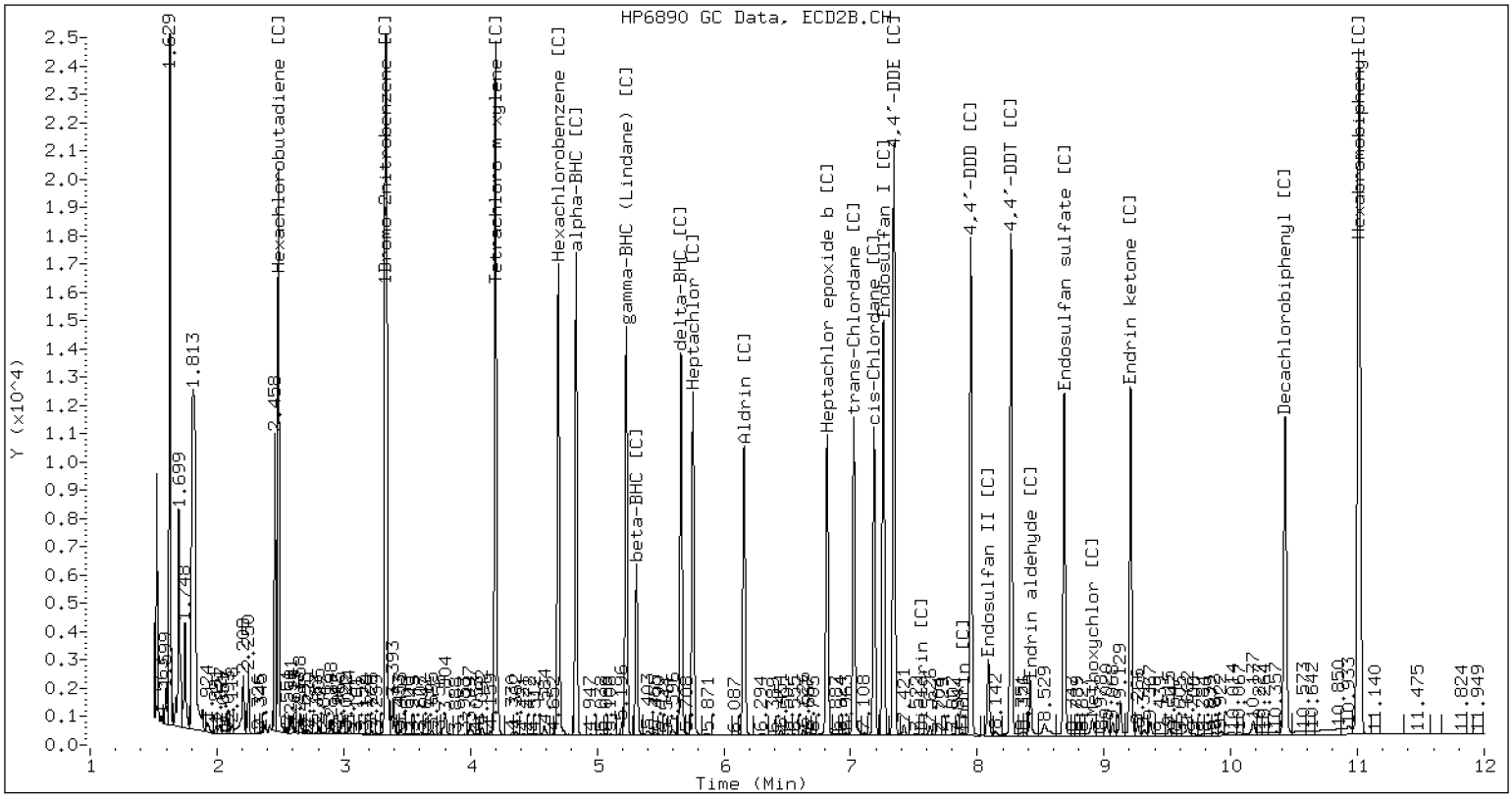
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230120.b/B20230120.b/23012015.D BLA0068-BSD1 CLP2



CLP-2 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/20/23 22:02
Batch:	BLA0068	Laboratory ID:	BLA0068-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	21.62 g / 2.5 mL	Source Sample:	LDW23-SC1053C

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Hexachlorobenzene	4.00	ND	U	3.35		83.8	26 - 128

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/20/23 22:20
Batch:	BLA0068	Laboratory ID:	BLA0068-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	21.62 g / 2.5 mL	Source Sample:	LDW23-SC1053C

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachlorobenzene	4.00	3.04		76.0	9.63	30	26 - 128

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012018.D
Data file 2: /20230120.b/B20230120.b/23012018.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLA0068-MS1
Client ID:
Injection Date: 20-JAN-2023 22:02
Report Date: 01/25/2023 06:58
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.316	0.002	227561	4.835	0.001	275302	14.58	12.00	19.4	alpha-BHC MN
4.699	0.003	100516	5.311	0.001	711143	16.73	81.53	131.9*	beta-BHC M
4.883	0.005	388491	5.663	0.000	677870	30.46	35.87	16.3	delta-BHC M
4.617	0.002	397462	5.231	0.001	556403	29.37	28.58	2.8	gamma-BHC (Lindane) M
5.101	0.004	927320	5.758	0.003	1177604	77.02	66.77	14.3	Heptachlor M
----			6.160	0.001	909230	0.00	45.15	---	Aldrin
6.095	0.002	180459	6.803	-0.012	2445049	15.43	146.83	162.0*	Heptachlor epoxide b
6.539	0.004	257654	7.259	0.000	723781	24.00	49.31	69.1*	Endosulfan I
6.781	-0.014	172432	7.536	-0.017	308067	14.95	19.00	23.8	Dieldrin
6.458	0.004	435321	7.343	0.001	1025147	40.65	68.94	51.6*	4,4'-DDE
----			----			0.00	0.00	---	Endrin
7.285	0.003	56903	8.079	-0.010	447506	7.99	44.31	138.9*	Endosulfan II
7.106	0.003	628737	7.950	0.001	640420	88.19	66.83	27.6	4,4'-DDD
8.149	0.003	171812	8.687	-0.000	364526	25.40	41.10	47.2*	Endosulfan sulfate
7.398	0.003	512247	8.271	0.004	801544	71.10	86.66	19.7	4,4'-DDT
----			8.881	-0.028	332435	0.00	81.22	---	Methoxychlor
8.422	0.003	222664	9.213	0.002	669677	28.74	69.92	83.5*	Endrin ketone
7.739	0.028	80177	8.416	-0.003	162668	14.11	22.83	47.2*	Endrin aldehyde
6.238	0.004	172494	----			14.52	0.00	---	trans-Chlordane
6.385	0.005	255889	7.186	0.000	785651	21.47	48.36	77.0*	cis-Chlordane
2.308	-0.000	214565	2.485	-0.001	372650	13.12	17.10	26.3	Hexachlorobutadiene
4.158	0.003	242652	4.693	0.000	310585	16.75	14.87	11.8	Hexachlorobenzene MN
3.806	0.002	312581	4.198	0.001	414556	28.35	25.72	9.7	Tetrachloro-m-xylene MN
9.330	0.006	233965	10.432	0.001	344995	38.26	45.05	16.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

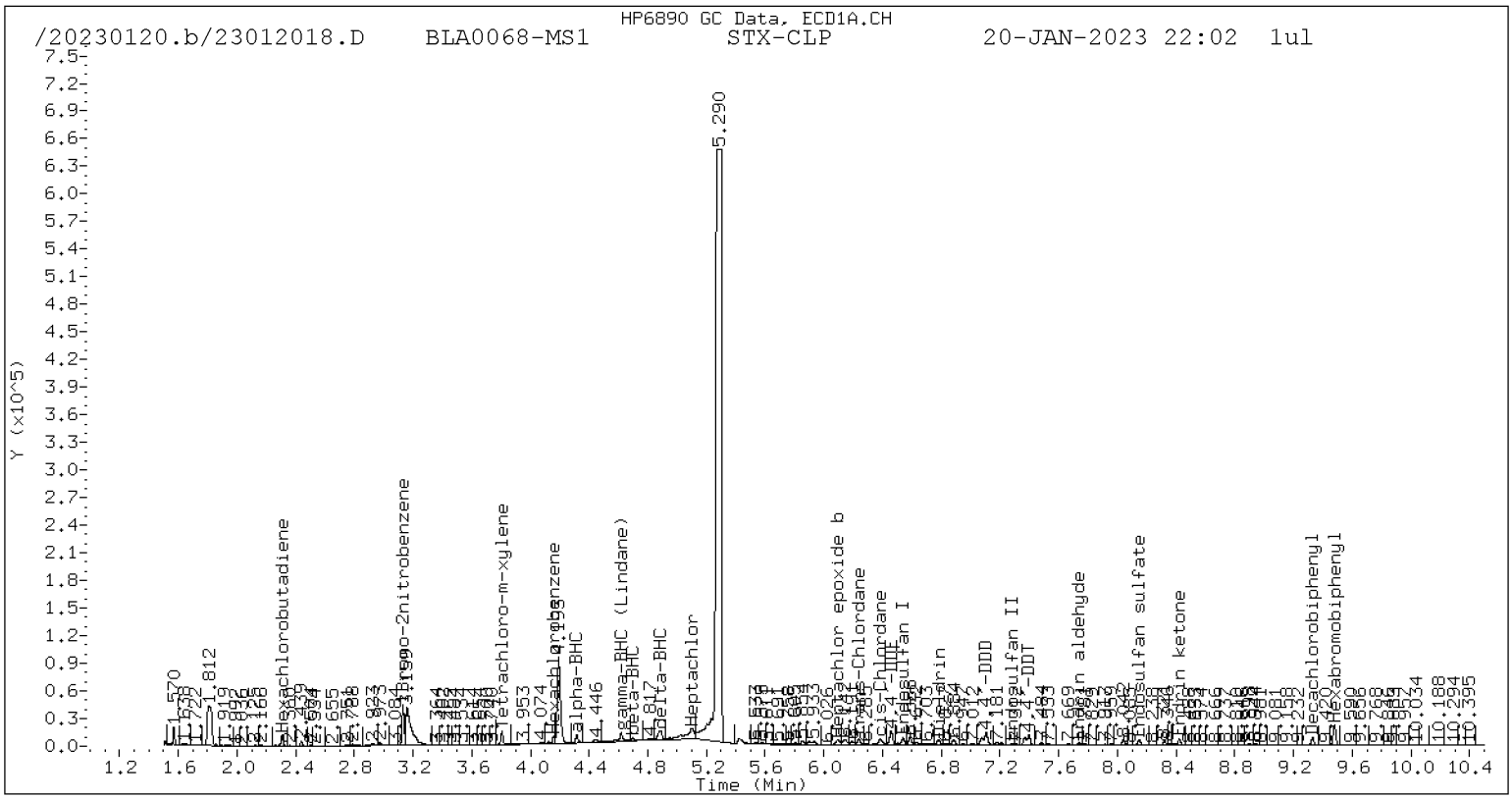
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	810652	20.6
Hexabromobiphenyl	609723	603603	-1.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1144835	13.7
Hexabromobiphenyl	769764	692924	-10.0

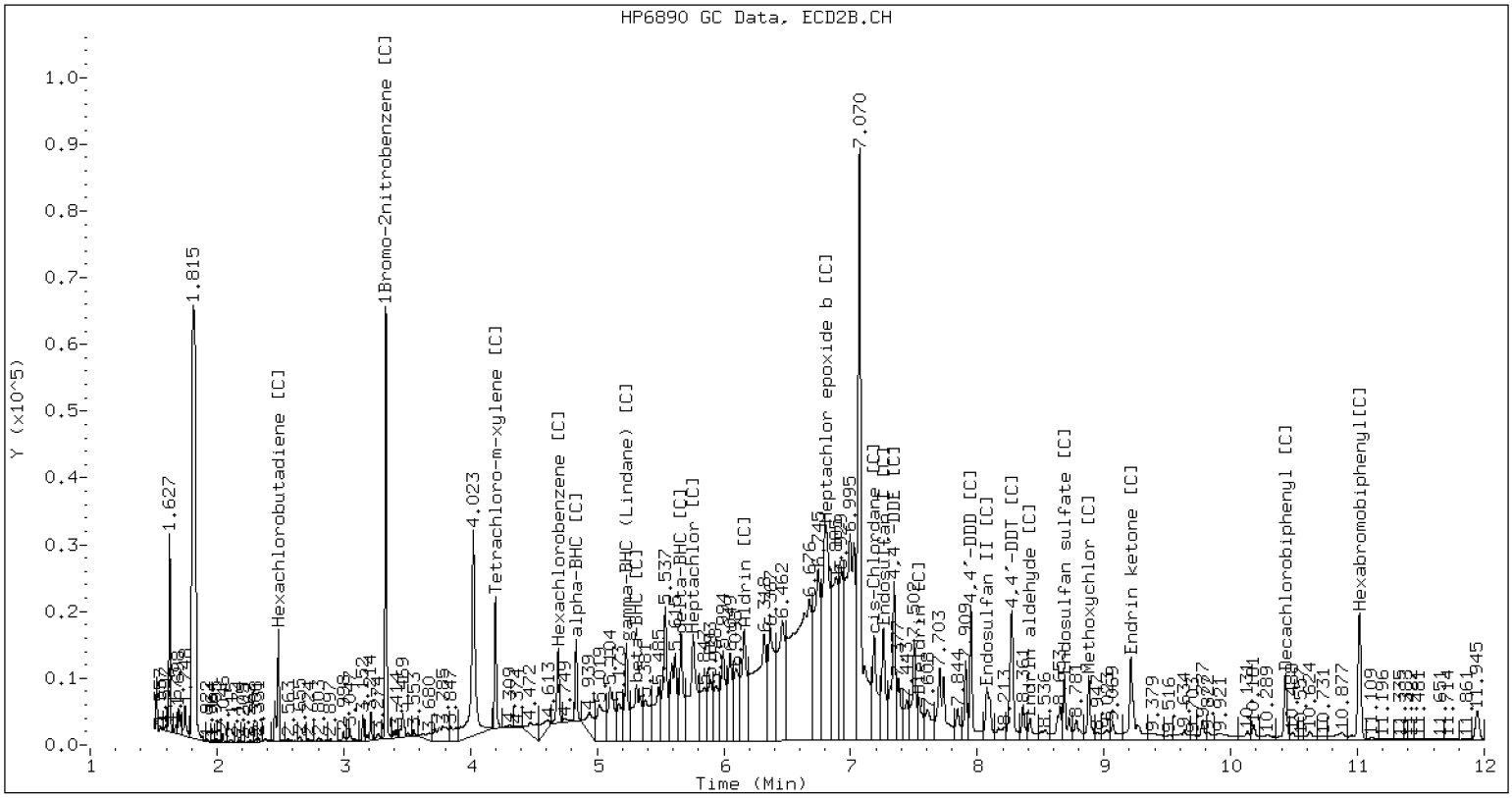
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

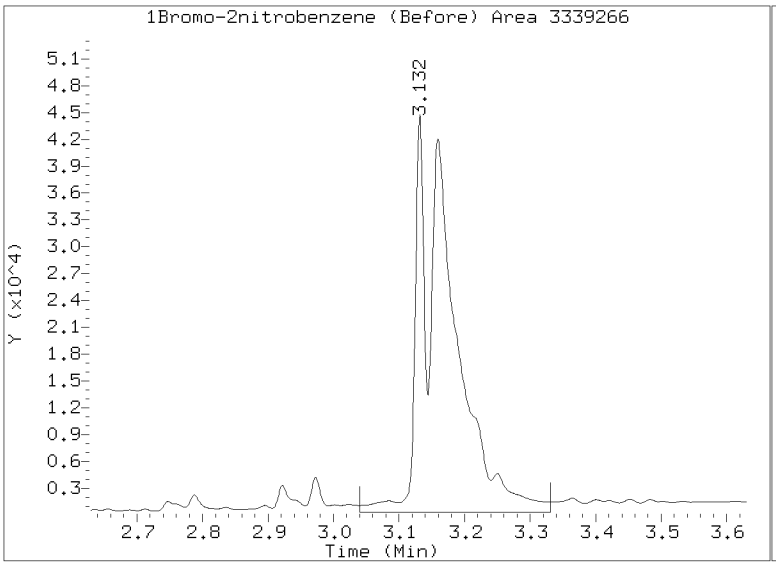
/20230120.b/B20230120.b/23012018.D BLA0068-MS1 CLP2

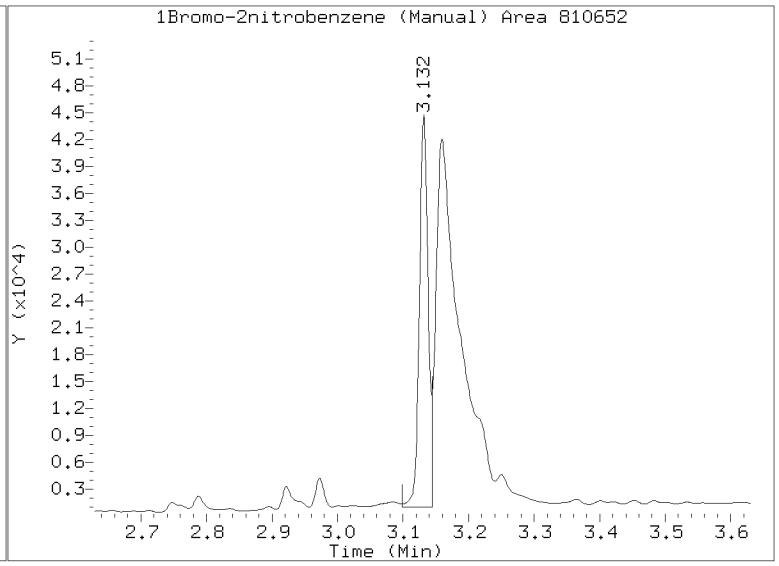


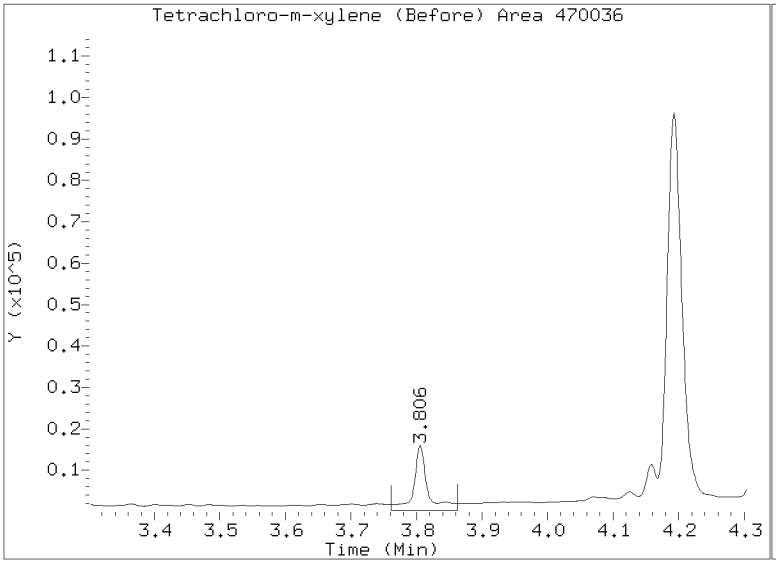
CLP-2 Manual Integration: YES

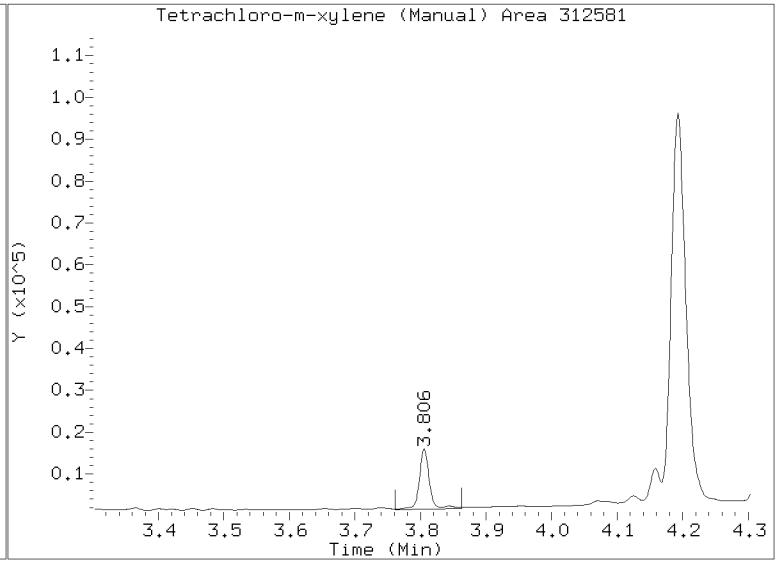
Manual Peak Adjustment Report, STX-CLP

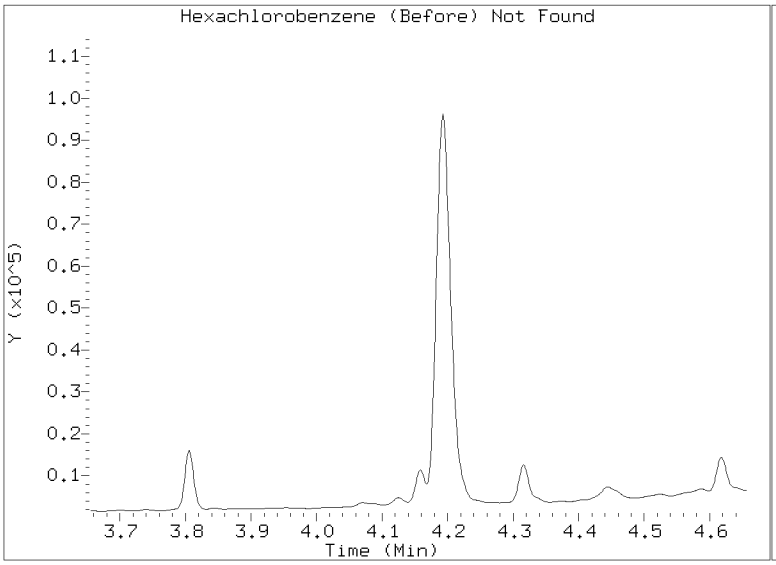
Datafile: /20230120.b/23012018.D
Injection Date: 20-JAN-2023 22:02
Lab ID:BLA0068-MS1 Client ID:
Report Date: 01/25/2023 06:58

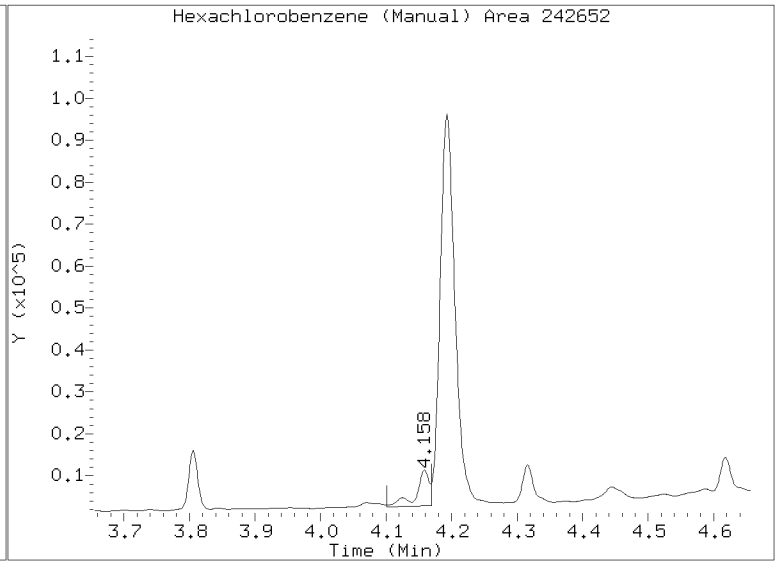






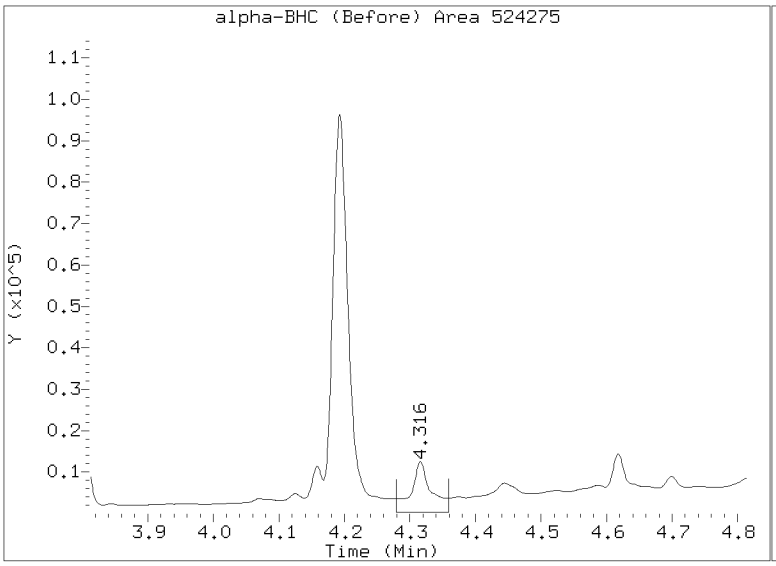


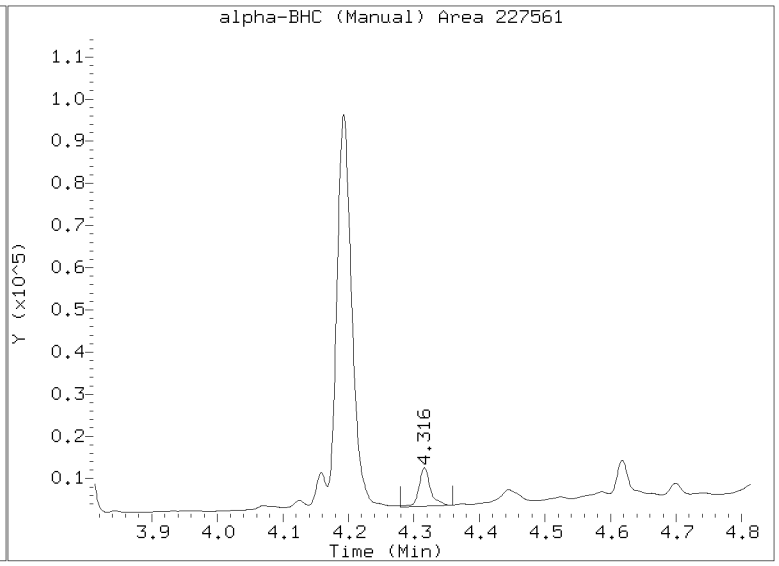


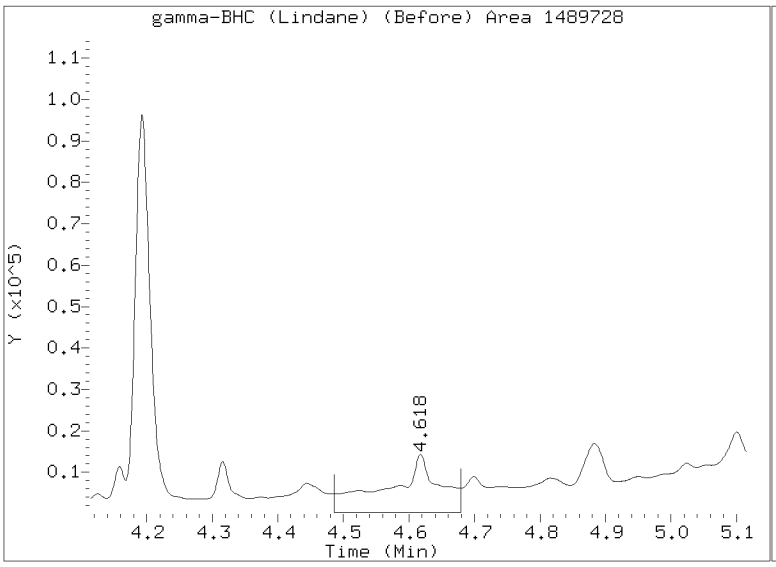


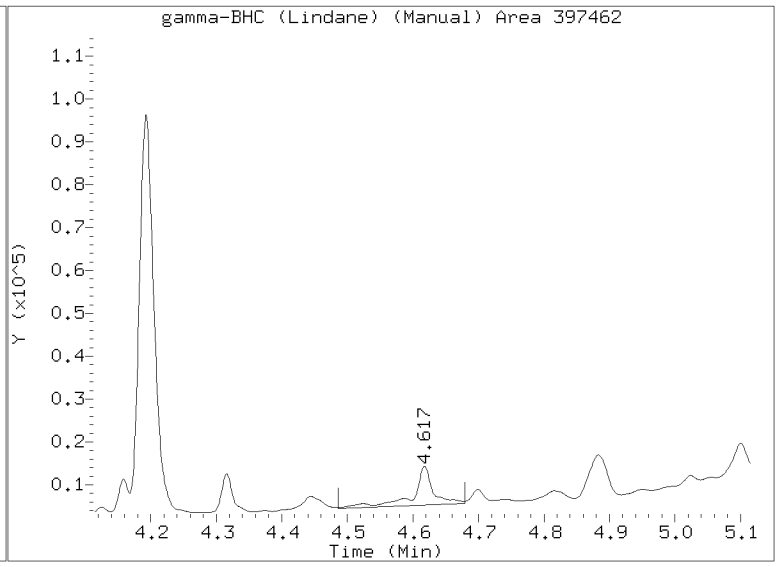
Manual Peak Adjustment Report, STX-CLP

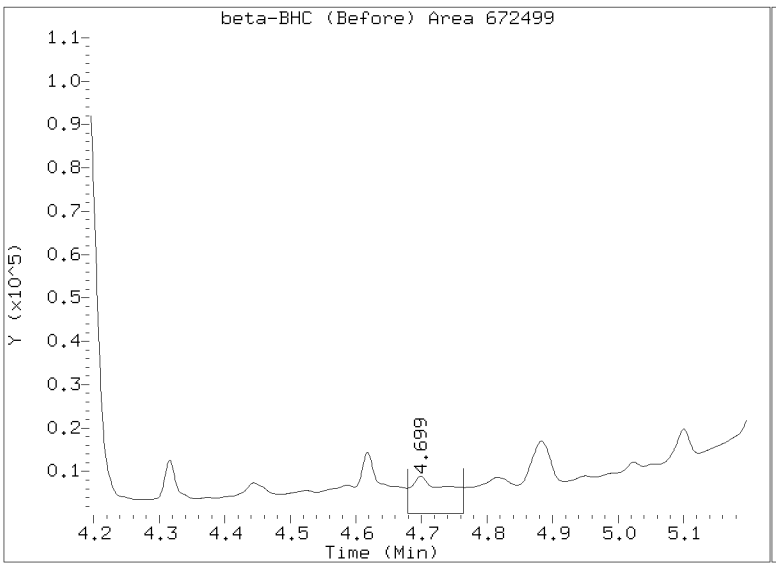
Datafile: /20230120.b/23012018.D
Injection Date: 20-JAN-2023 22:02
Lab ID:BLA0068-MS1 Client ID:
Report Date: 01/25/2023 06:58

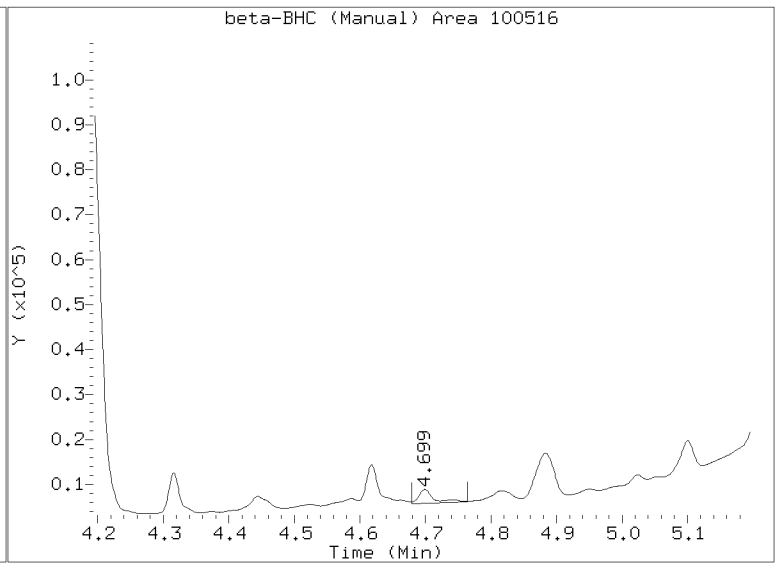






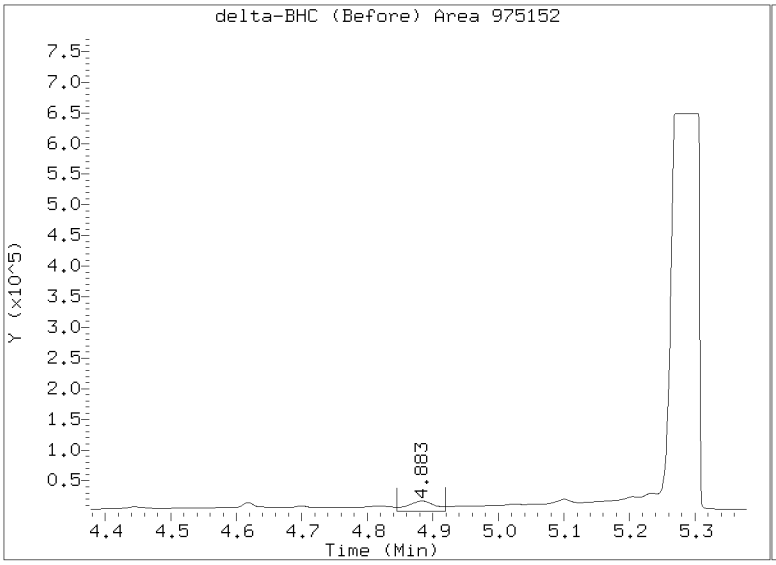


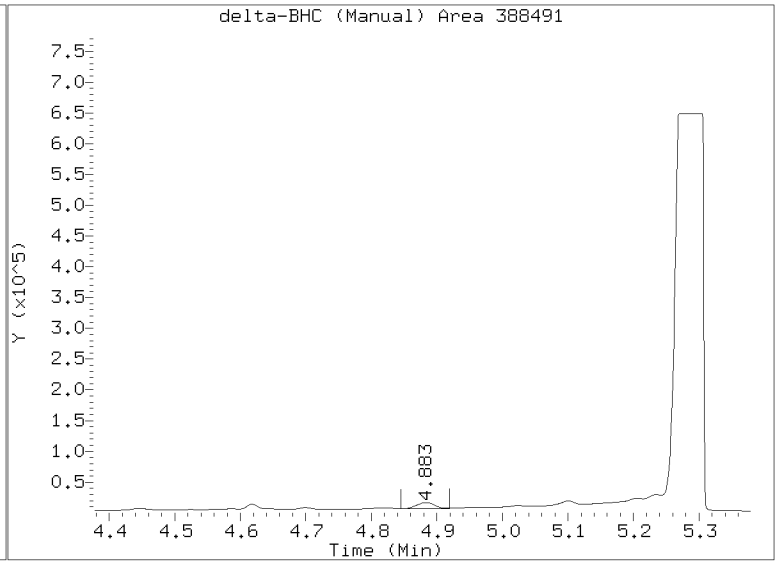


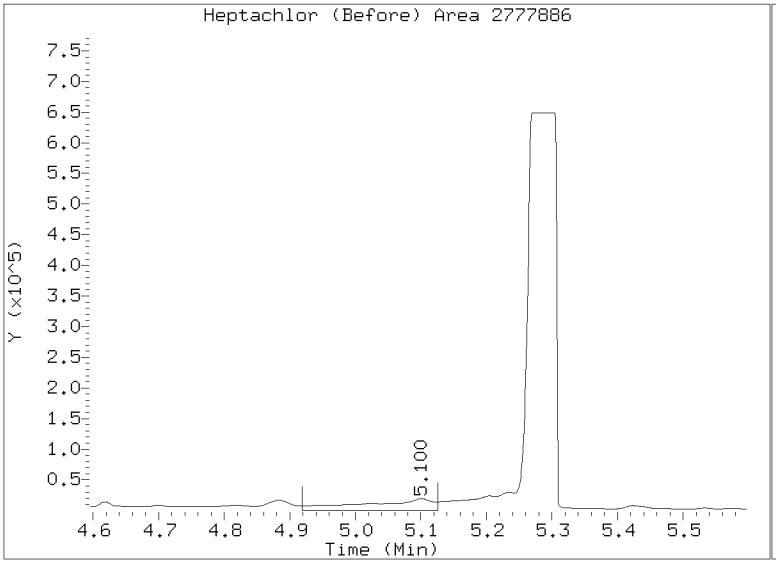


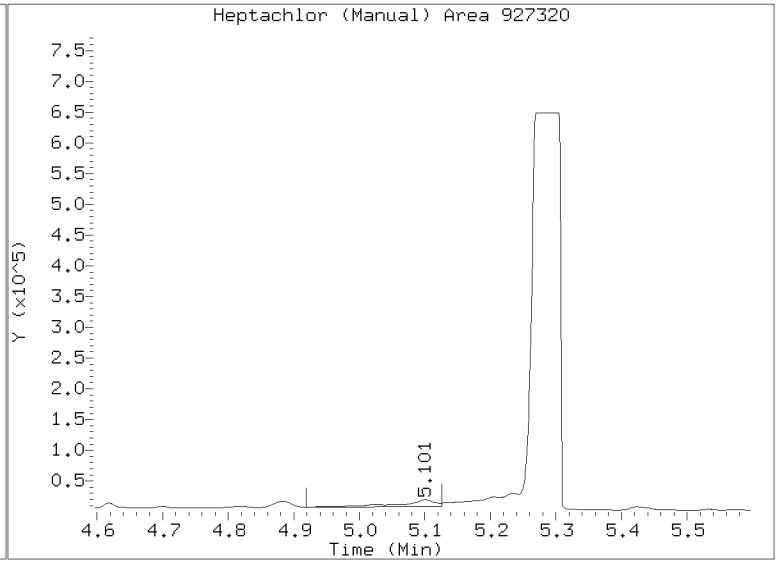
Manual Peak Adjustment Report, STX-CLP

Datafile: /20230120.b/23012018.D
Injection Date: 20-JAN-2023 22:02
Lab ID:BLA0068-MS1 Client ID:
Report Date: 01/25/2023 06:58



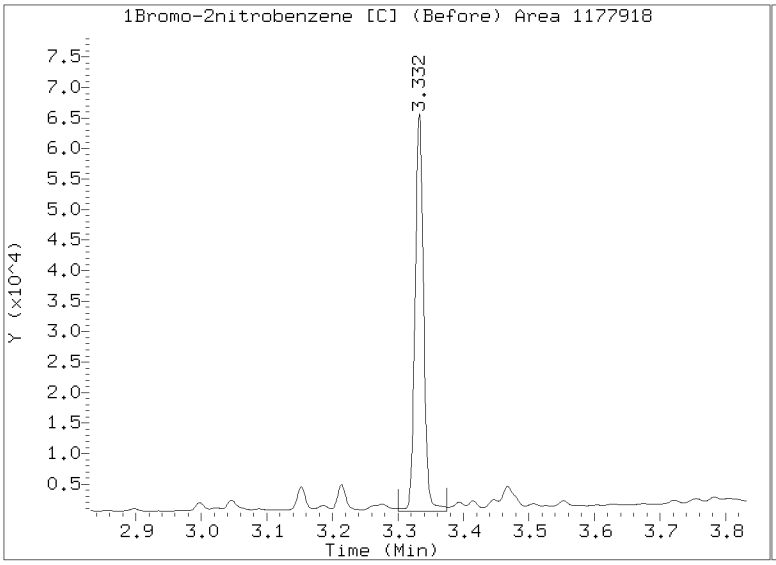


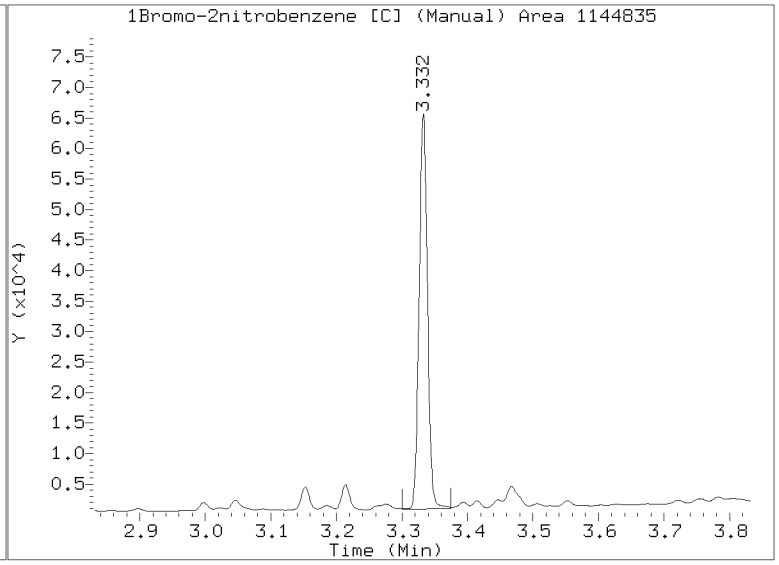


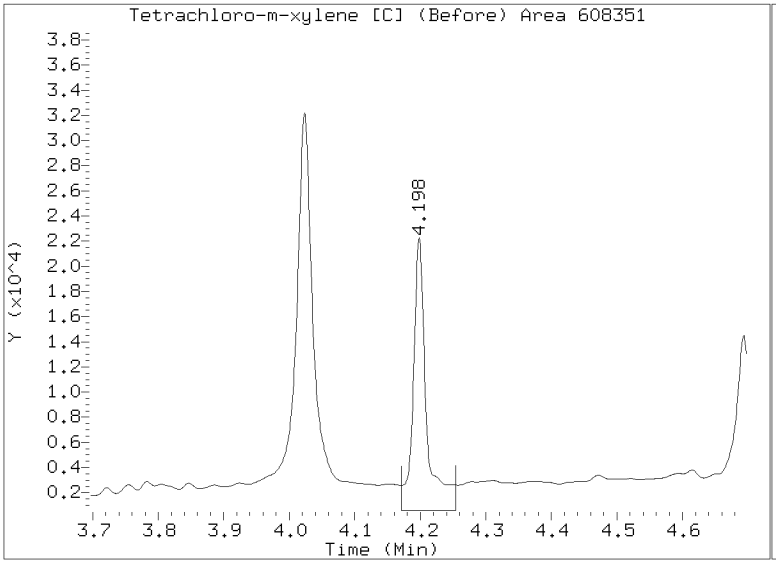


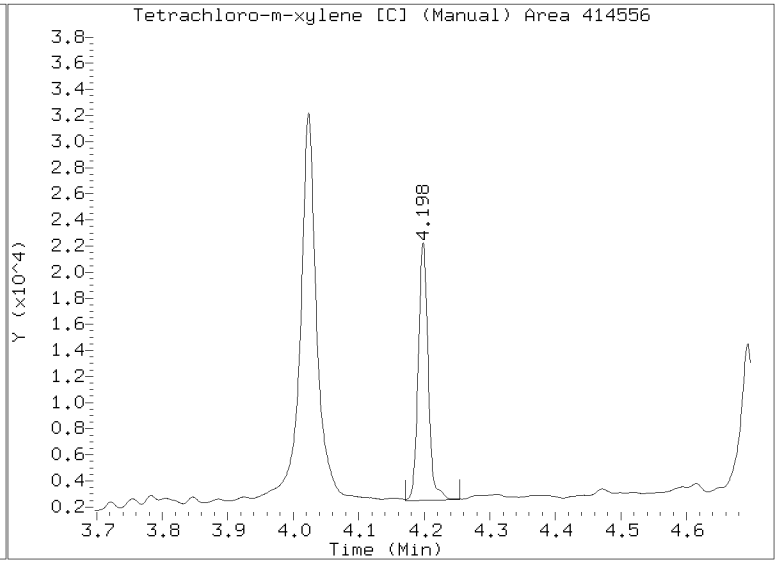
Manual Peak Adjustment Report, CLP-2

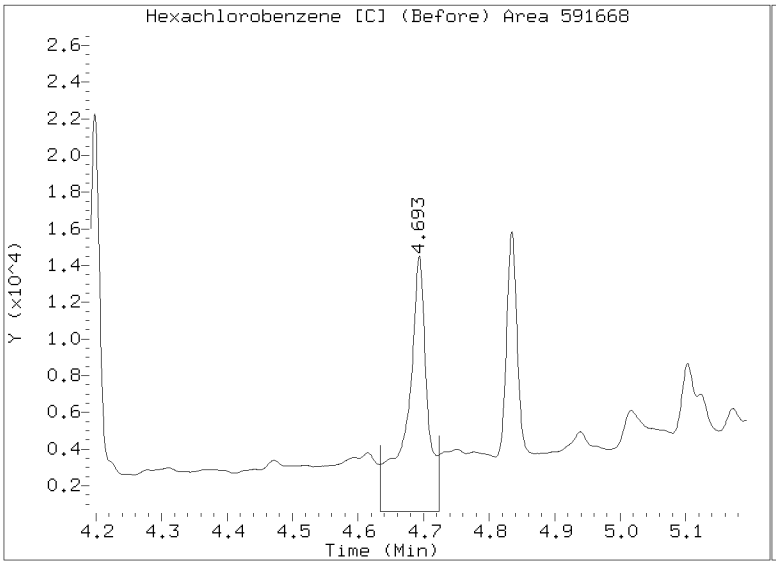
Datafile: /20230120.b/B20230120.b/23012018.D
Injection Date: 20-JAN-2023 22:02
Lab ID:BLA0068-MS1 Client ID:

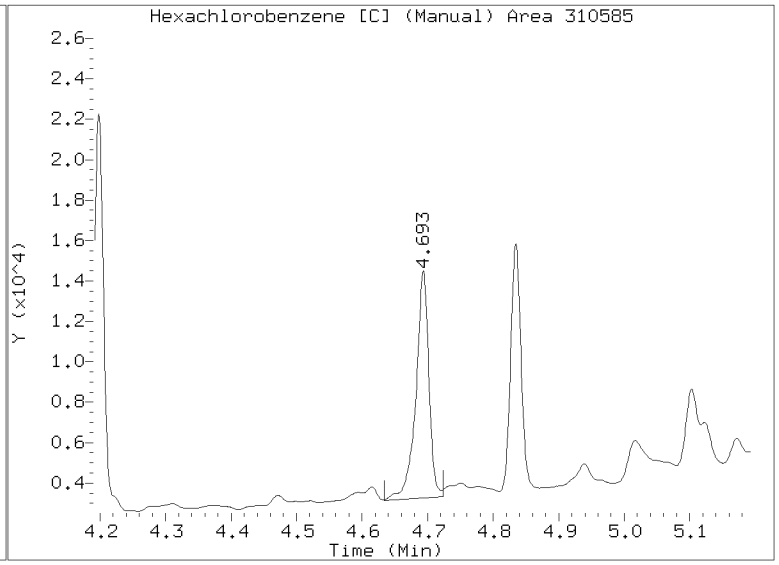






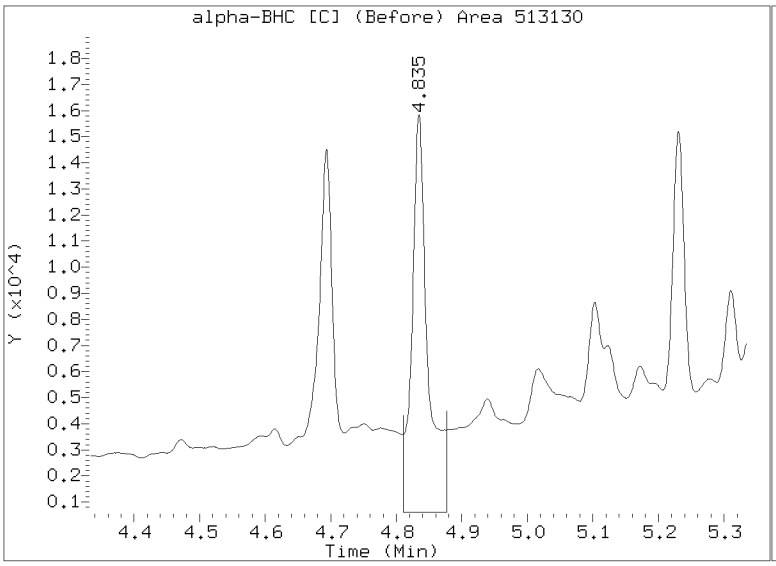


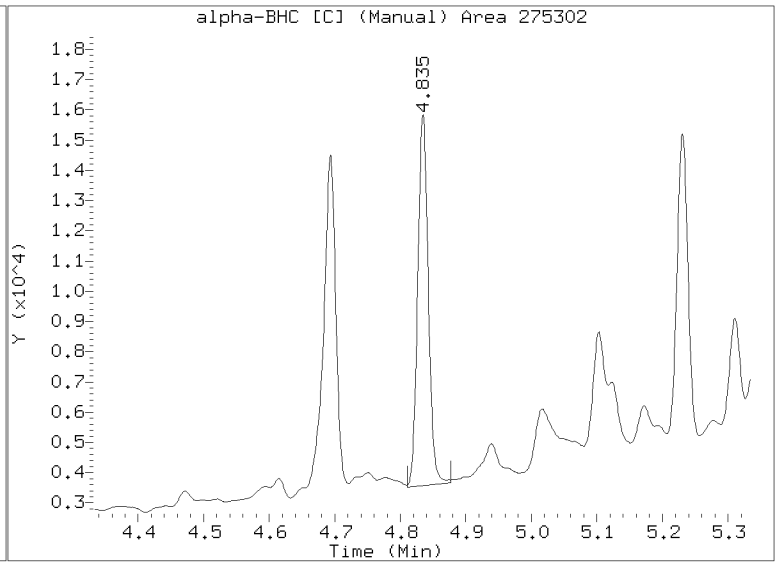




Manual Peak Adjustment Report, CLP-2

Datafile: /20230120.b/B20230120.b/23012018.D
Injection Date: 20-JAN-2023 22:02
Lab ID:BLA0068-MS1 Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012019.D
Data file 2: /20230120.b/B20230120.b/23012019.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLA0068-MSD1
Client ID:
Injection Date: 20-JAN-2023 22:20
Report Date: 01/24/2023 13:41
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.315	0.002	287802	4.834	0.000	283830	17.20	12.09	34.9	alpha-BHC MN
4.699	0.003	97621	5.310	0.000	106739	15.16	11.96	23.6	beta-BHC MN
4.883	0.004	335958	5.662	0.000	242288	24.57	12.53	64.9*	delta-BHC M
4.619	0.003	307993	5.230	0.000	250233	21.23	12.56	51.3*	gamma-BHC (Lindane) MN
5.099	0.003	184069	5.758	0.002	281937	14.26	15.62	9.1	Heptachlor M
5.424	0.005	256336	6.159	0.000	235527	17.72	11.43	43.2*	Aldrin M
6.095	0.002	195480	6.798	-0.016	492085	15.59	28.88	59.8*	Heptachlor epoxide b
6.540	0.004	203478	7.259	0.000	290721	17.68	19.36	9.1	Endosulfan I
6.781	-0.014	251008	7.537	-0.016	136910	20.30	8.25	84.4*	Dieldrin
6.458	0.003	444647	7.343	0.000	563796	38.74	37.05	4.4	4,4'-DDE
----			----			0.00	0.00	---	Endrin
7.285	0.003	74057	8.077	-0.011	421322	9.95	39.94	120.2*	Endosulfan II
7.105	0.003	783553	7.950	0.001	502754	105.17	50.22	70.7*	4,4'-DDD
8.149	0.003	194688	8.687	-0.000	223729	27.54	24.15	13.1	Endosulfan sulfate
7.398	0.003	615544	8.271	0.004	850449	81.76	88.01	7.4	4,4'-DDT
----			8.881	-0.028	599185	0.00	140.13	---	Methoxychlor
8.421	0.002	324466	9.214	0.004	697593	40.07	69.72	54.0*	Endrin ketone
7.739	0.027	183281	8.416	-0.003	164048	30.87	22.04	33.3	Endrin aldehyde
6.238	0.004	169100	7.028	0.002	271503	13.28	15.98	18.5	trans-Chlordane
6.386	0.005	248776	7.187	0.000	229528	19.48	13.81	34.1	cis-Chlordane
2.308	0.000	191430	2.486	-0.000	262360	10.92	11.77	7.4	Hexachlorobutadiene M
4.159	0.003	236203	4.694	0.001	349385	15.21	16.35	7.2	Hexachlorobenzene MN
3.806	0.003	323501	4.199	0.001	434243	27.38	26.33	3.9	Tetrachloro-m-xylene MN
9.330	0.006	240247	10.432	0.001	332231	37.59	41.53	10.0	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

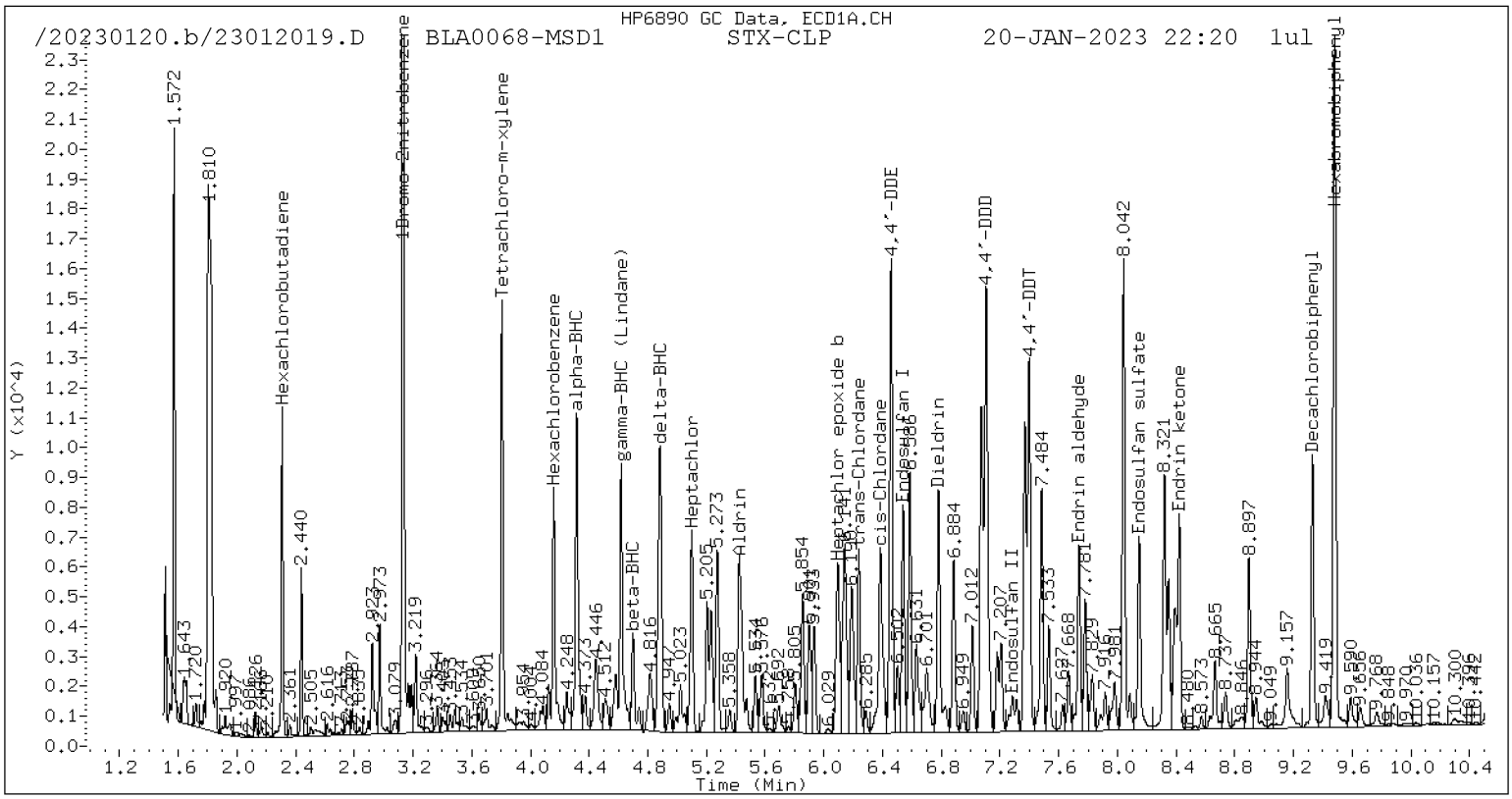
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	868940	29.2
Hexabromobiphenyl	609723	630808	3.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1171512	16.4
Hexabromobiphenyl	769764	723864	-6.0

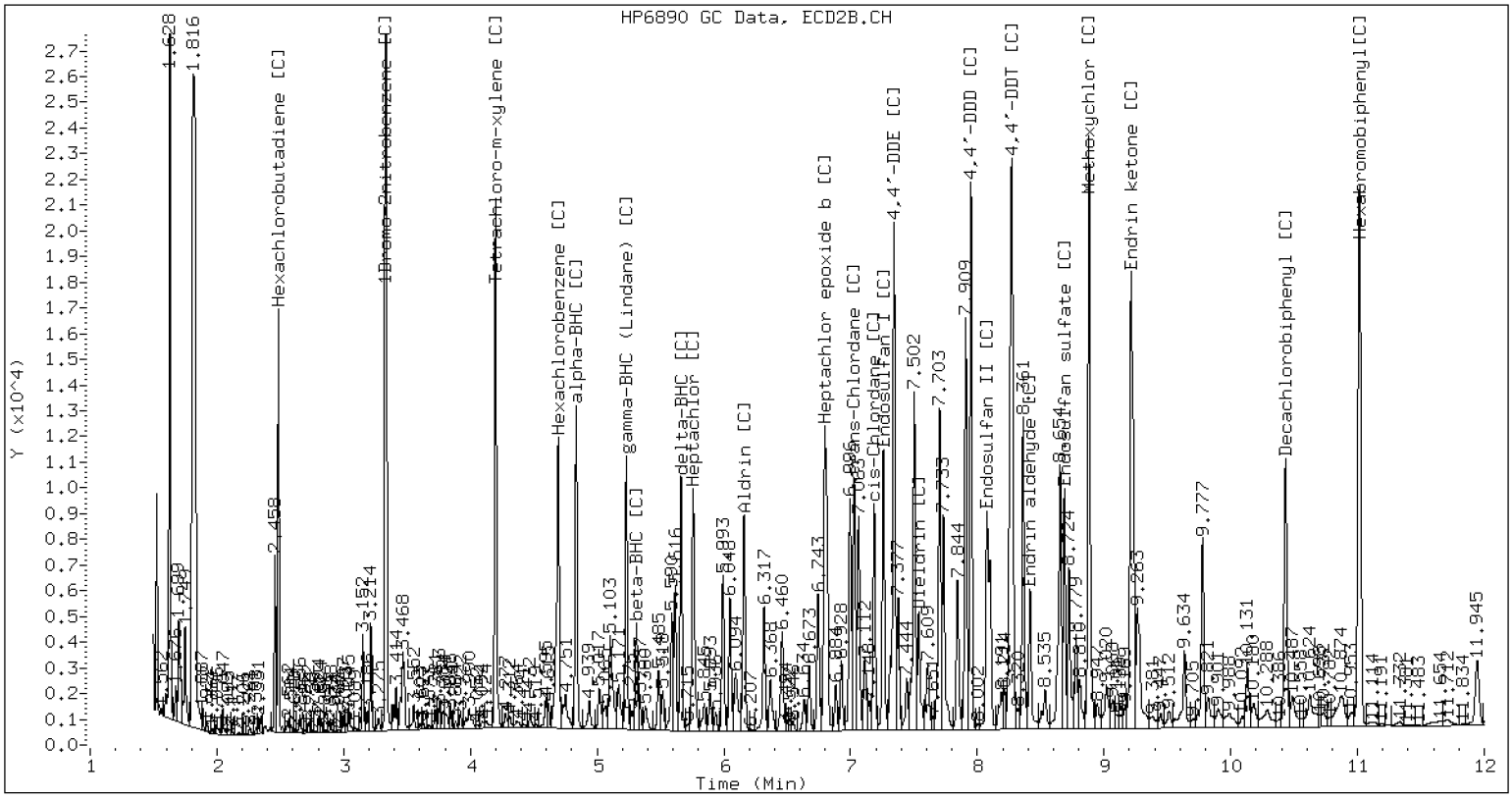
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

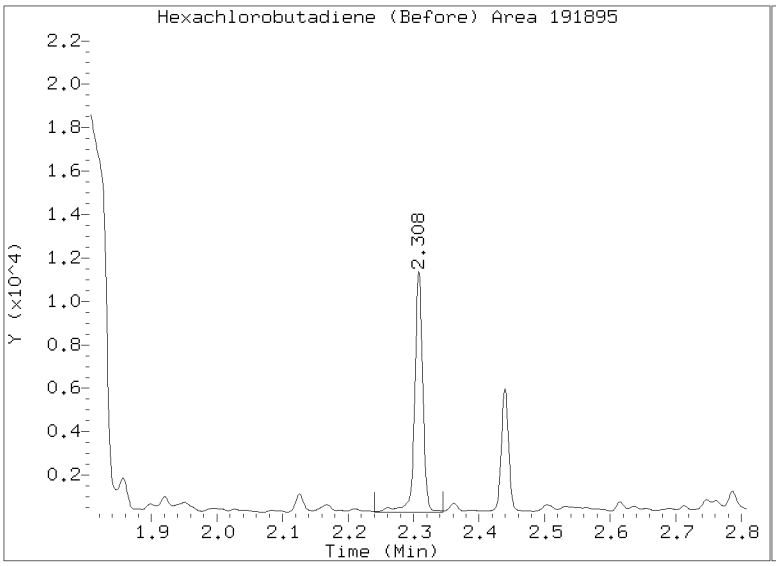
/20230120.b/B20230120.b/23012019.D BLA0068-MSD1 CLP2

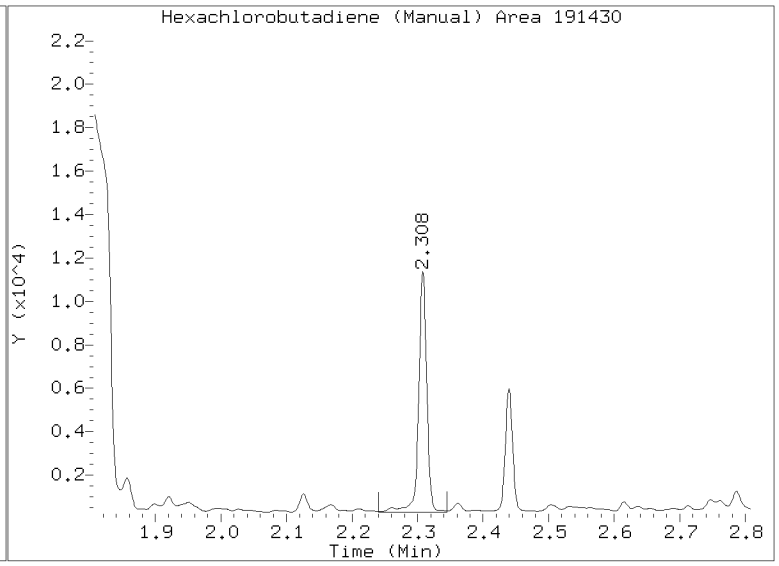


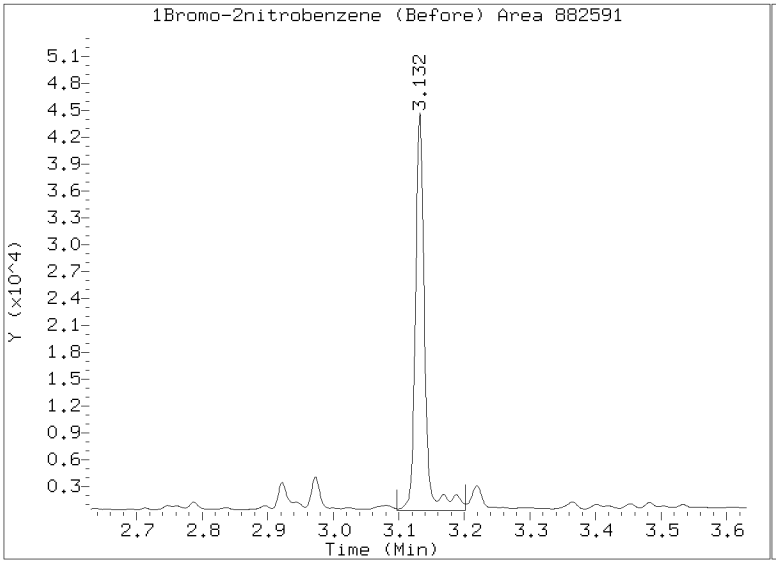
CLP-2 Manual Integration: YES

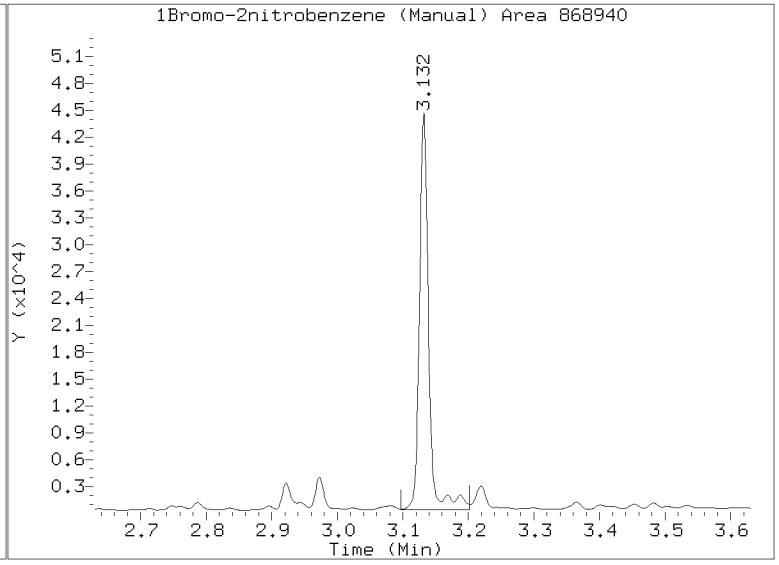
Manual Peak Adjustment Report, STX-CLP

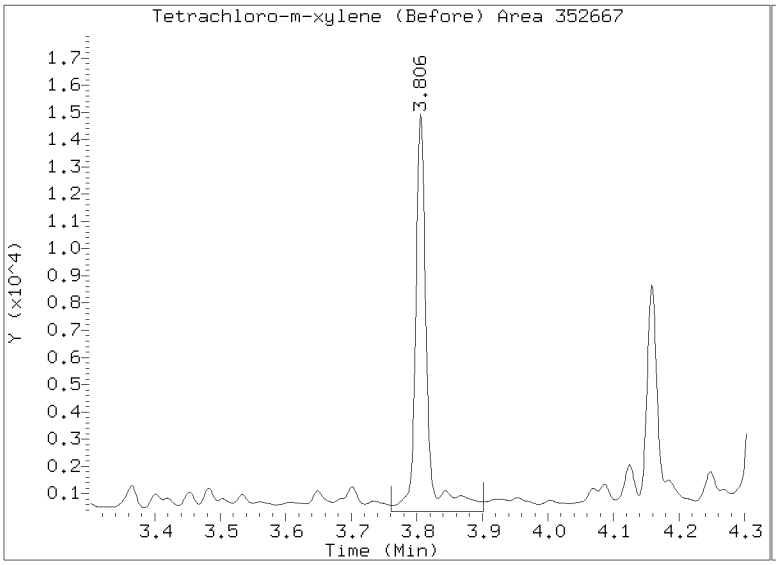
Datafile: /20230120.b/23012019.D
Injection Date: 20-JAN-2023 22:20
Lab ID:BLA0068-MSD1 Client ID:
Report Date: 01/24/2023 13:41

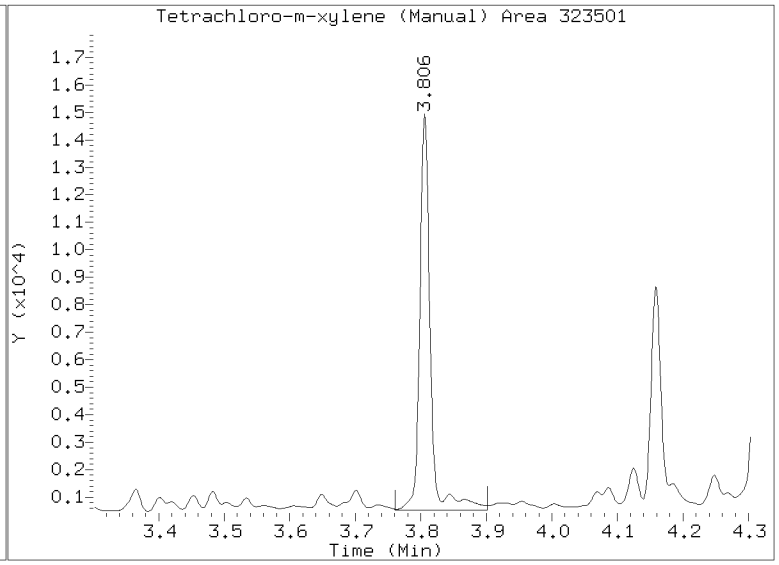






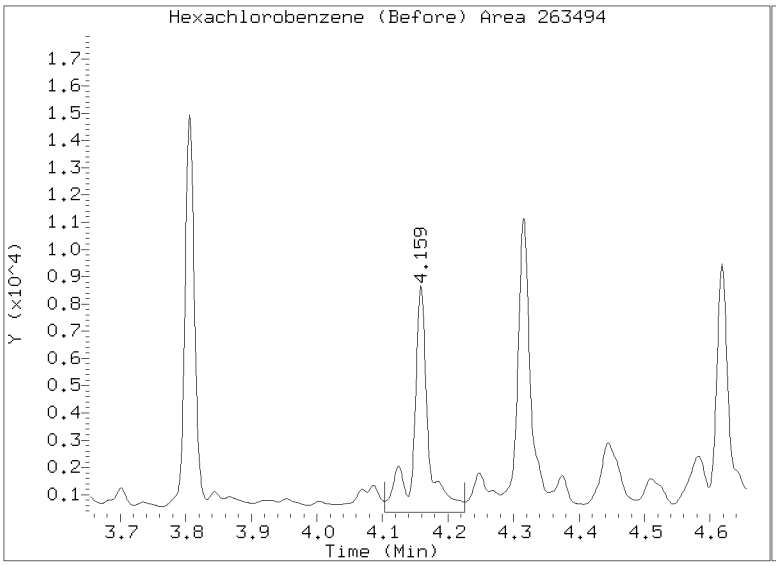


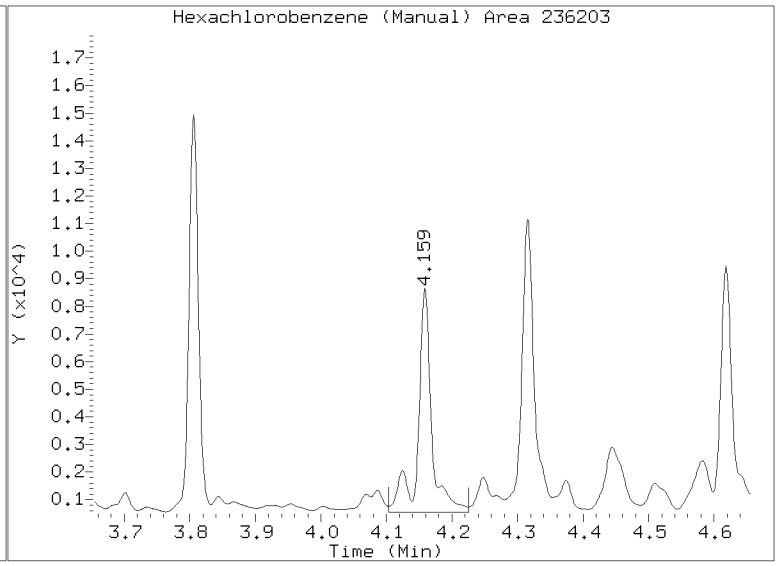


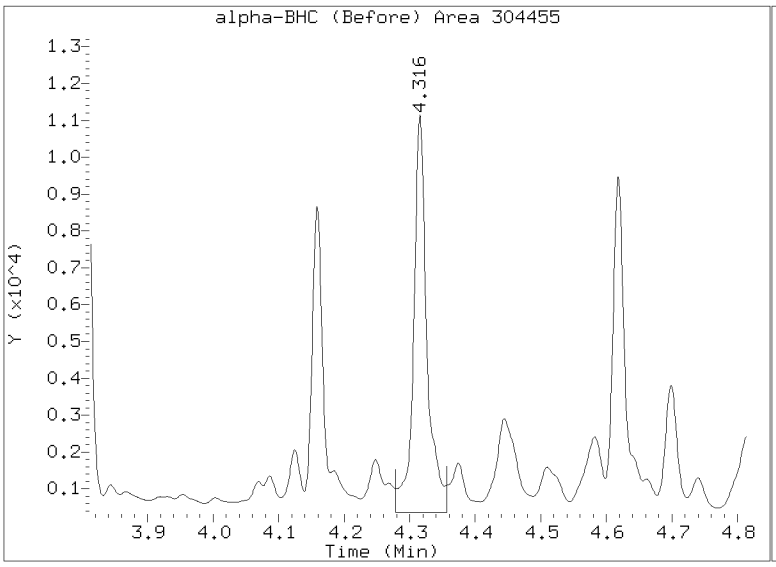


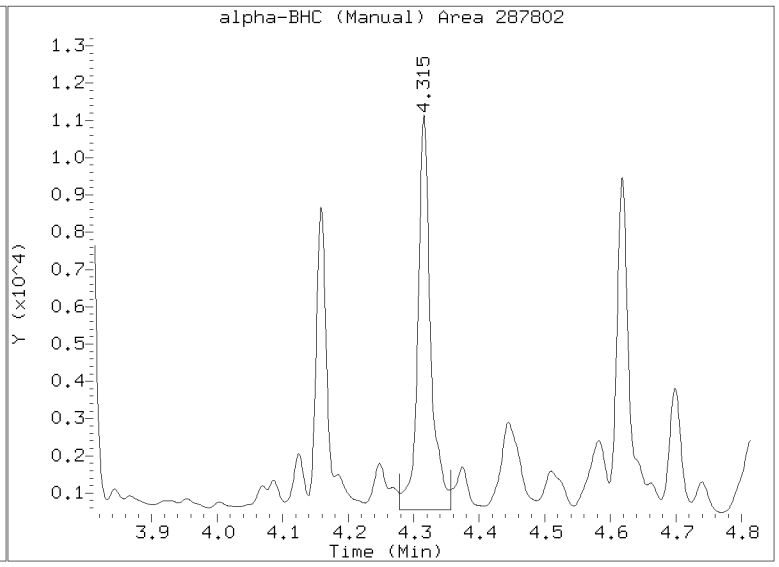
Manual Peak Adjustment Report, STX-CLP

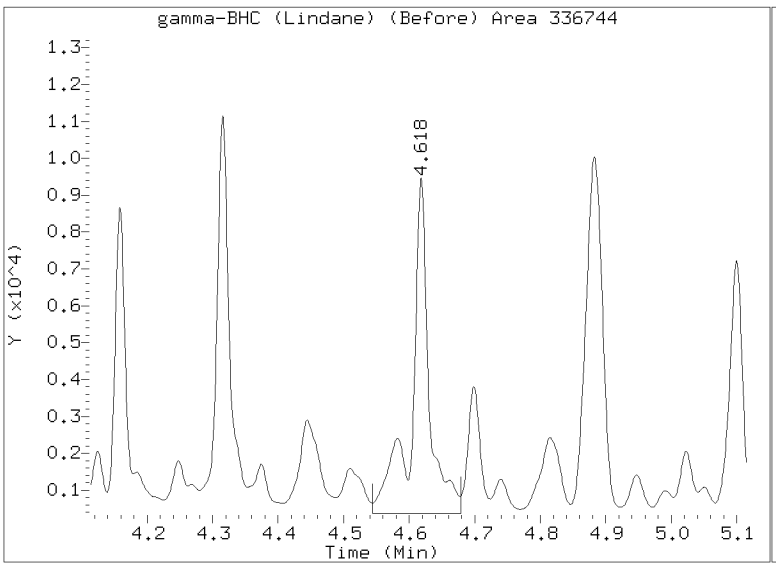
Datafile: /20230120.b/23012019.D
Injection Date: 20-JAN-2023 22:20
Lab ID:BLA0068-MSD1 Client ID:
Report Date: 01/24/2023 13:41

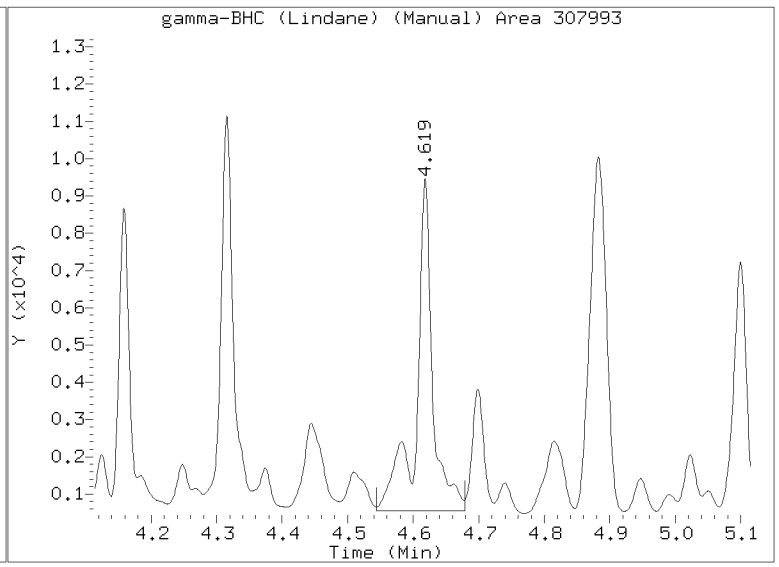






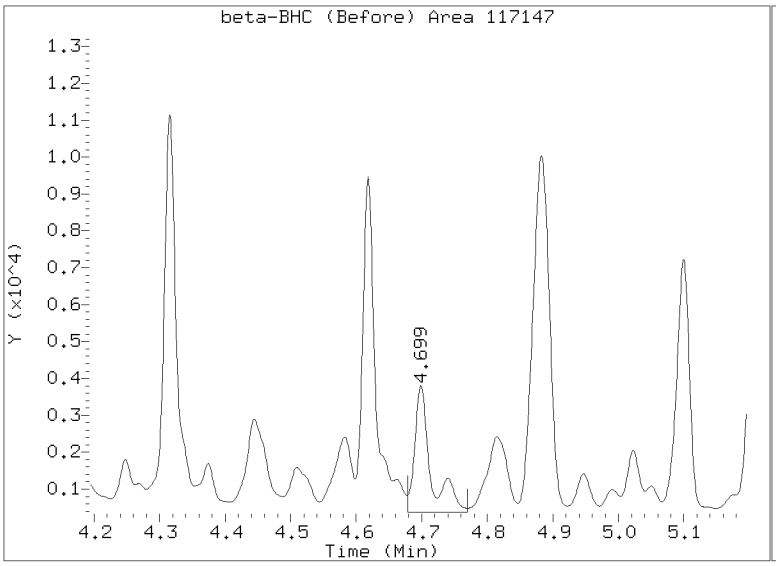


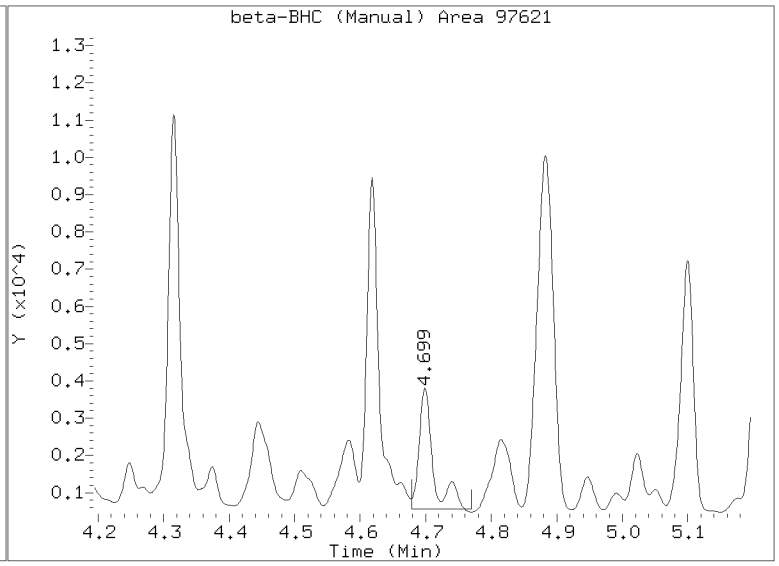


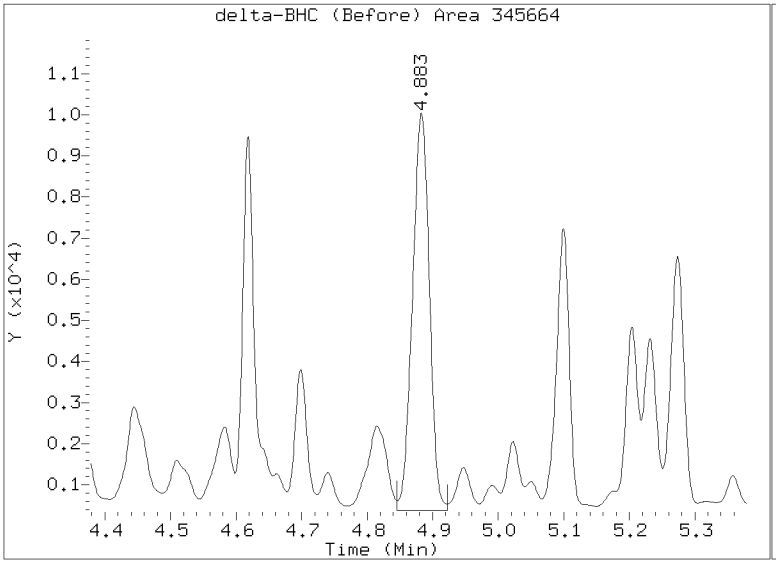


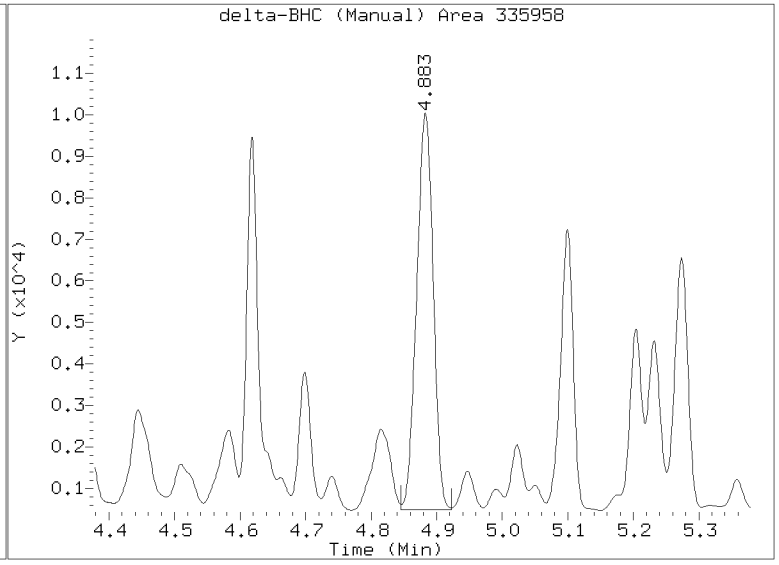
Manual Peak Adjustment Report, STX-CLP

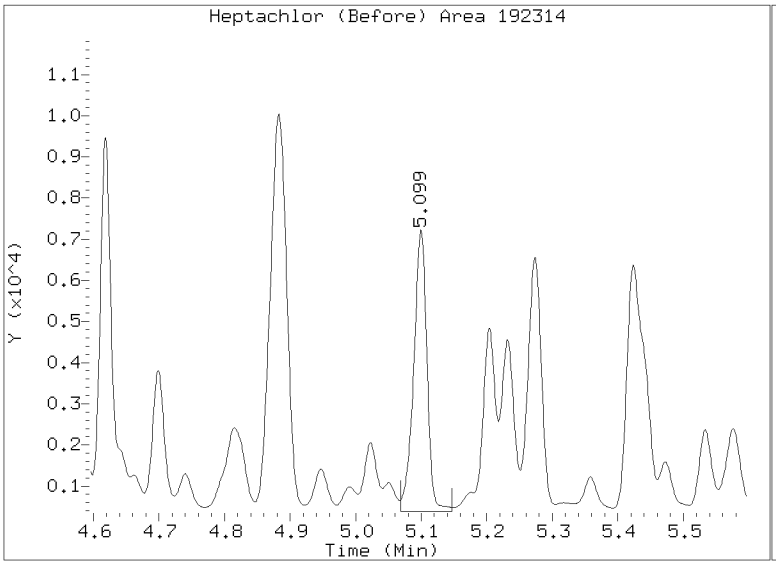
Datafile: /20230120.b/23012019.D
Injection Date: 20-JAN-2023 22:20
Lab ID:BLA0068-MSD1 Client ID:
Report Date: 01/24/2023 13:41

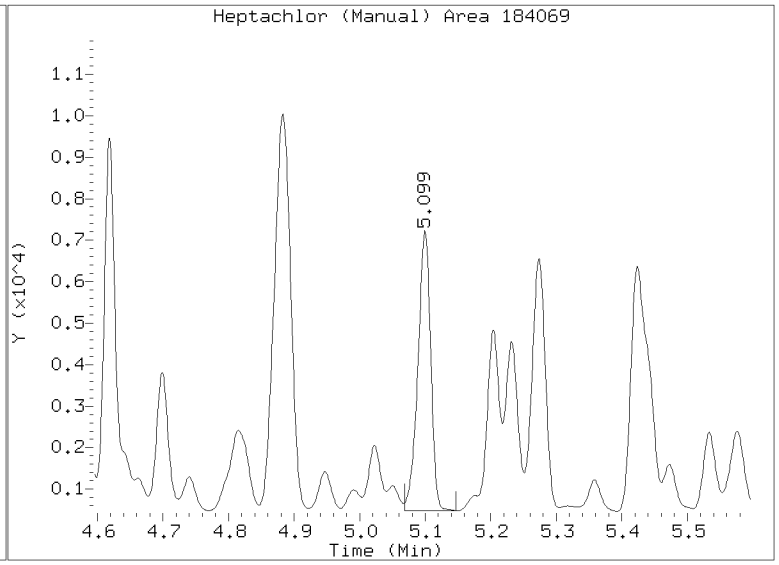






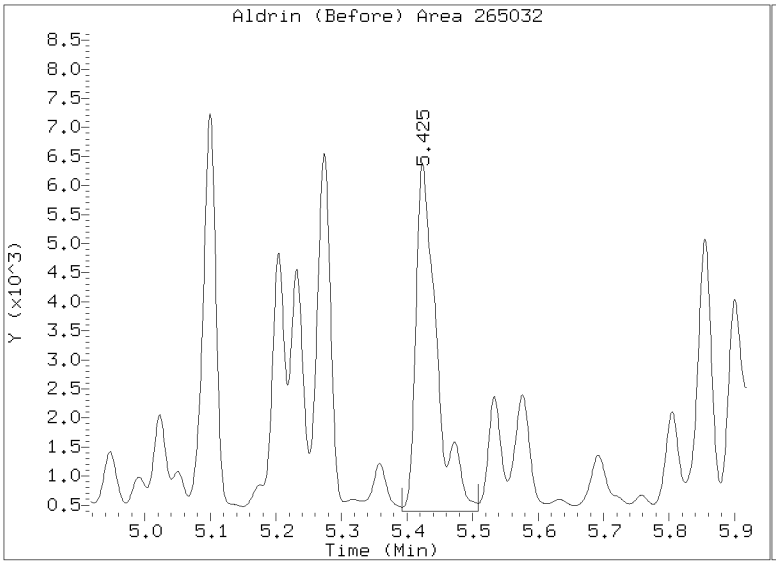


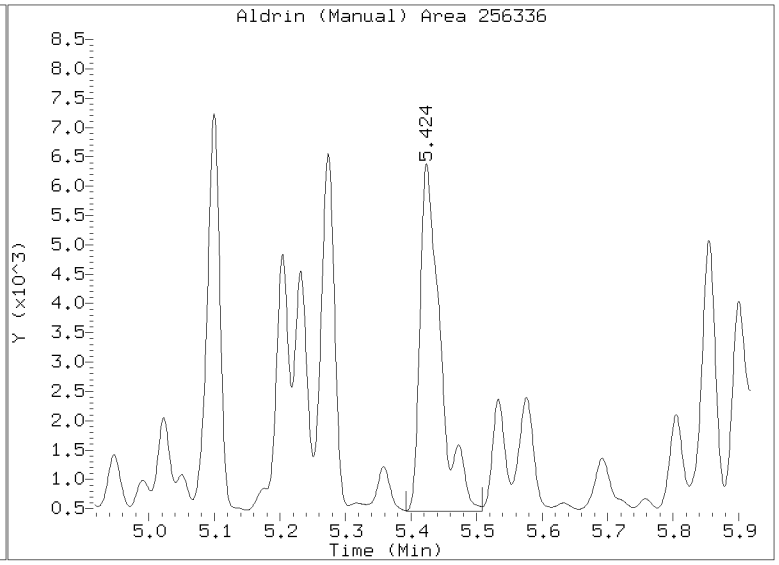




Manual Peak Adjustment Report, STX-CLP

Datafile: /20230120.b/23012019.D
Injection Date: 20-JAN-2023 22:20
Lab ID:BLA0068-MSD1 Client ID:
Report Date: 01/24/2023 13:41





Manual Peak Adjustment Report, CLP-2

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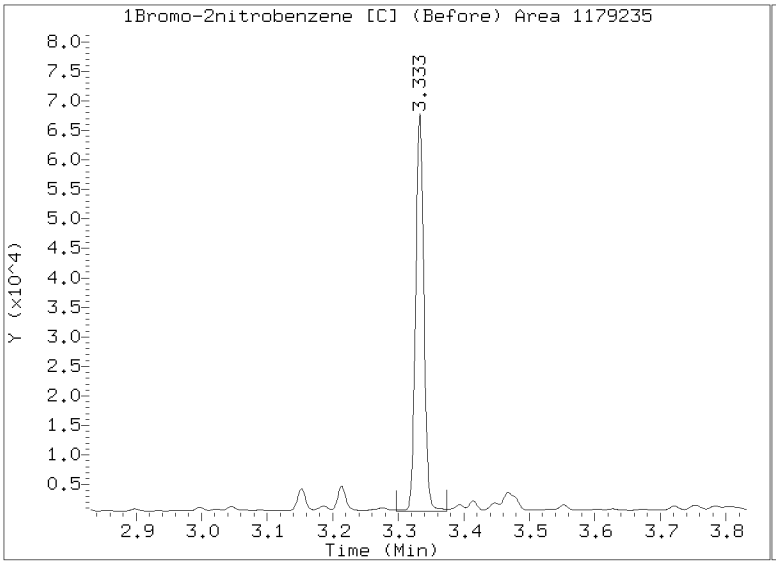
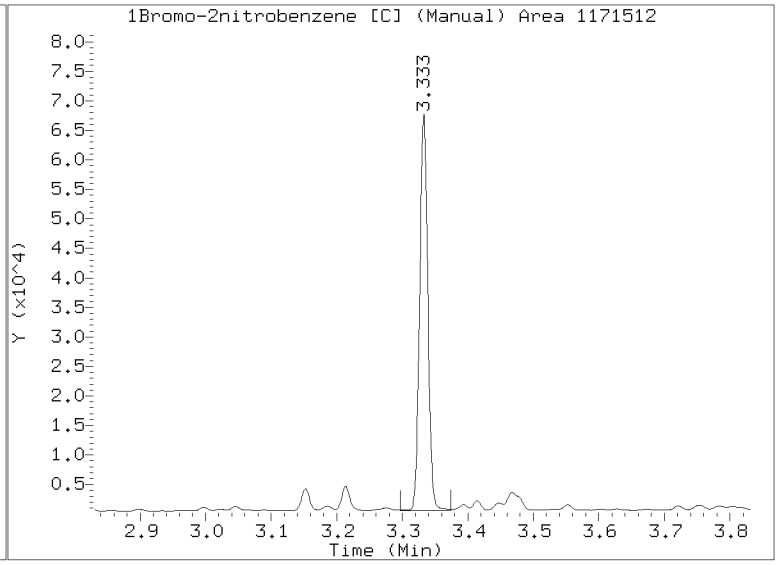
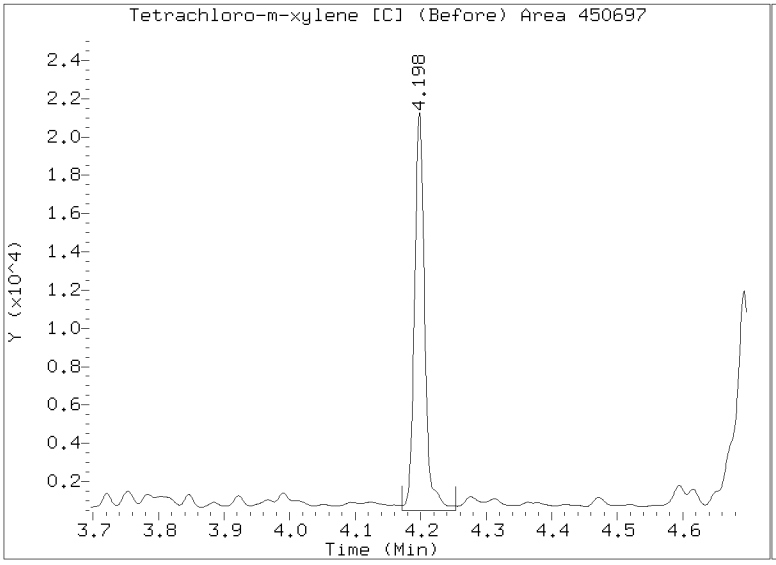
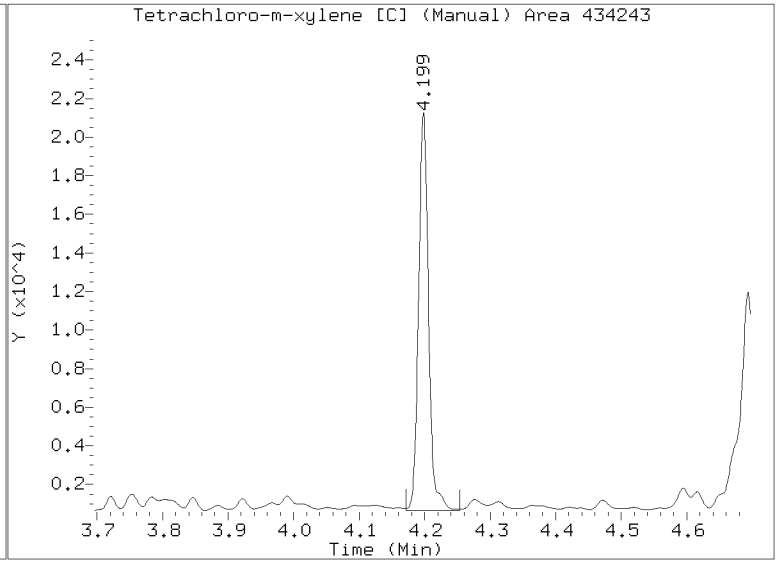
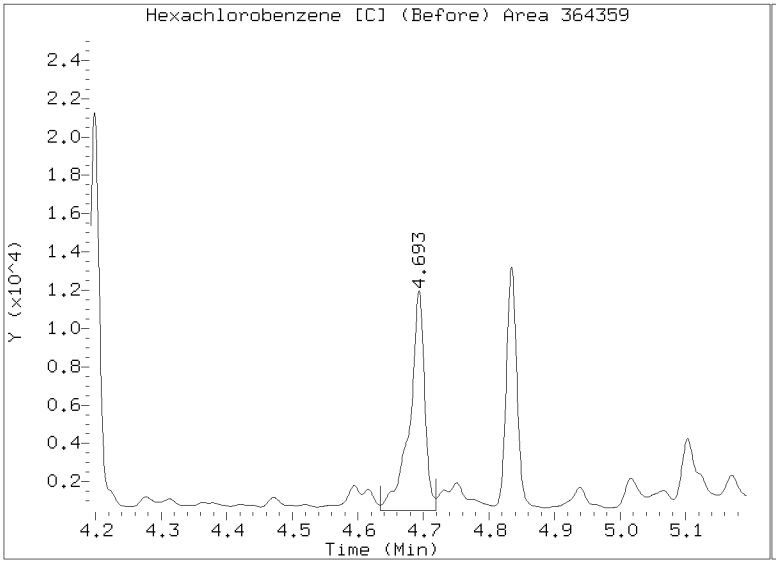
Injection Date: 20-JAN-2023 22:20
Lab ID:BLA0068-MSD1 Client ID:

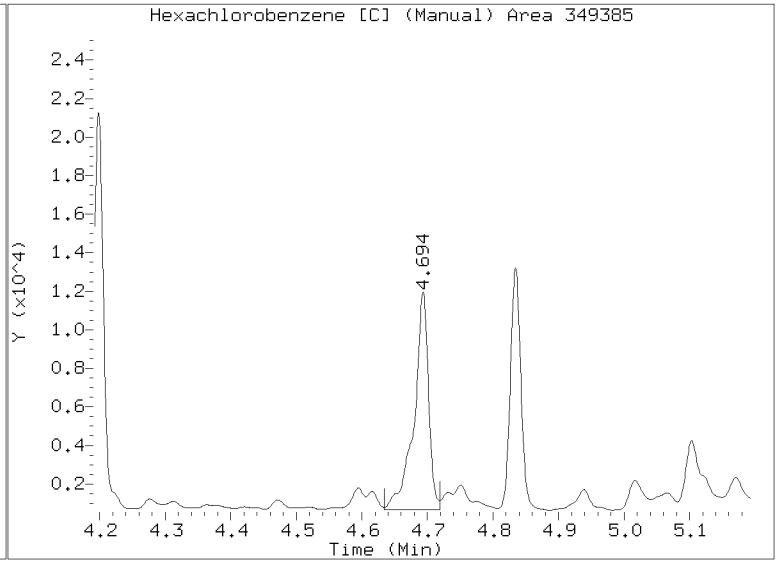






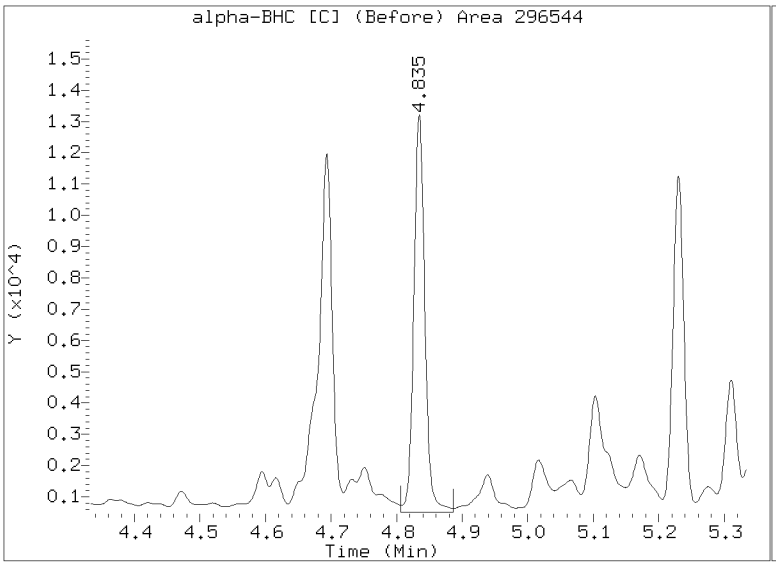


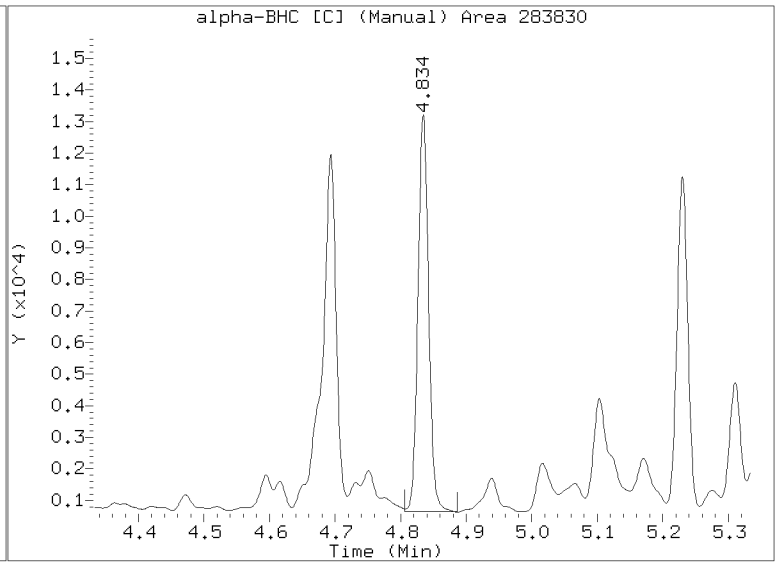


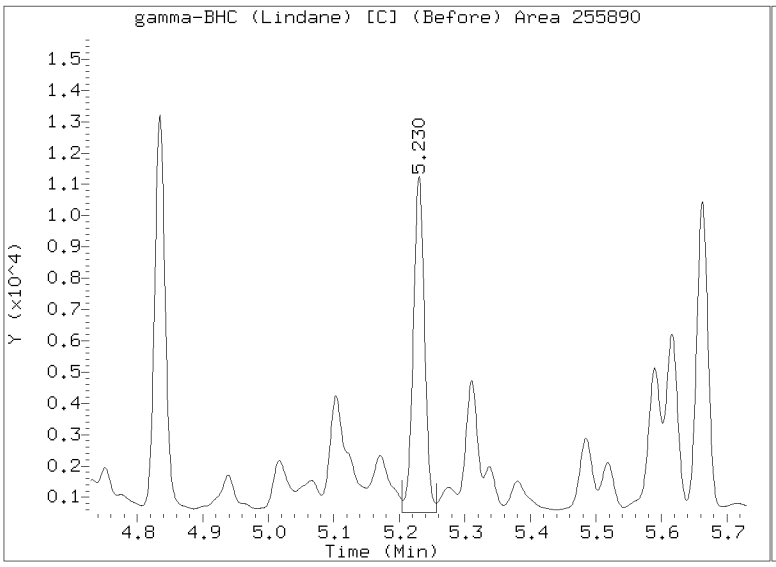


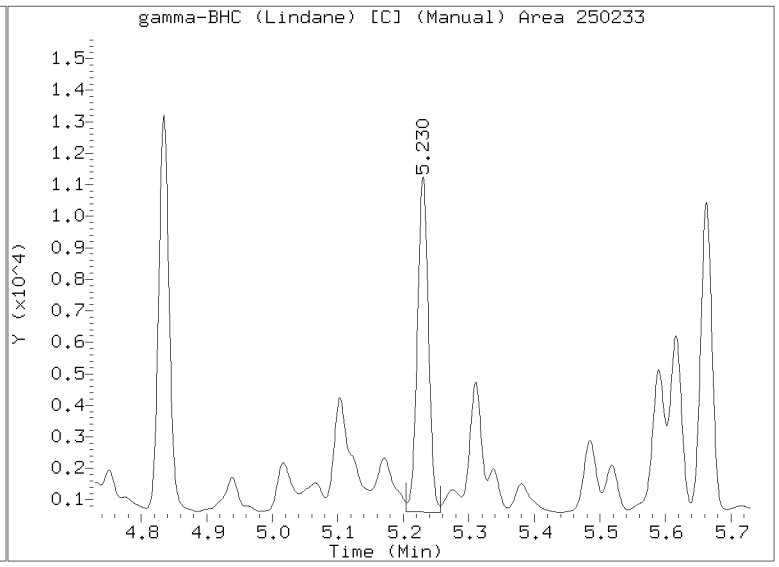
Manual Peak Adjustment Report, CLP-2

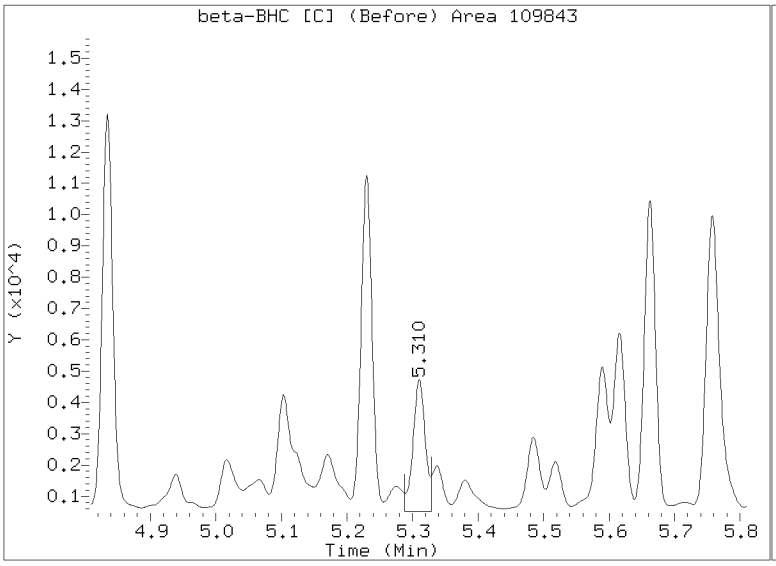
Datafile: /20230120.b/B20230120.b/23012019.D
Injection Date: 20-JAN-2023 22:20
Lab ID:BLA0068-MSD1 Client ID:

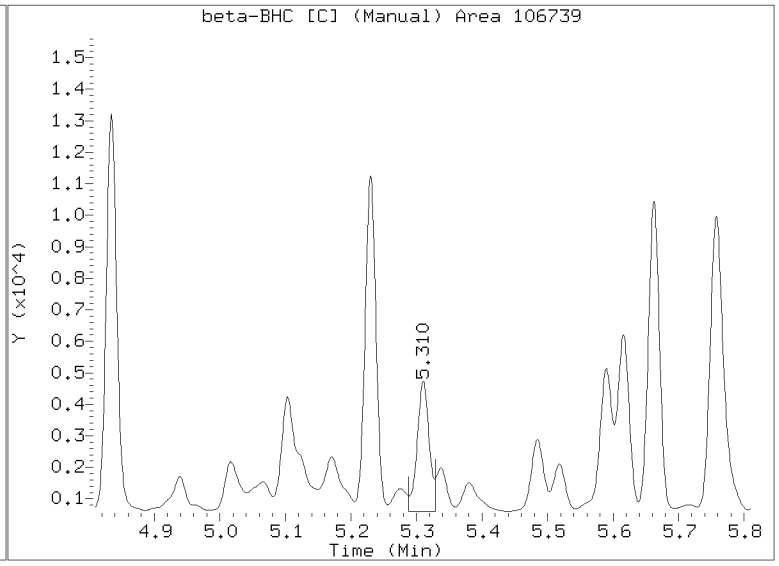












INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
alpha-BHC			2.5	1.564682	5	1.558115	10	1.57359	20	1.566596	40	1.528219
beta-BHC			2.5	0.6501672	5	0.6116678	10	0.6049898	20	0.5910241	40	0.567415
gamma-BHC (Lindane)			2.5	1.364013	5	1.359107	10	1.367627	20	1.357913	40	1.317203
delta-BHC			2.5	1.267737	5	1.264366	10	1.278672	20	1.286232	40	1.255792
Heptachlor			2.5	1.26903	5	1.222902	10	1.218715	20	1.207966	40	1.145438
Aldrin			2.5	1.349967	5	1.349283	10	1.40535	20	1.372547	40	1.307197
Heptachlor Epoxide			2.5	1.231126	5	1.189593	10	1.20792	20	1.178021	40	1.104377
trans-Chlordane (beta-Chlordane)			2.5	1.262297	5	1.202181	10	1.202336	20	1.19062	40	1.128117
cis-Chlordane (alpha-chlordane)			2.5	1.308183	5	1.222582	10	1.200602	20	1.177182	40	1.111332
Endosulfan I			2.5	1.143813	5	1.097776	10	1.093658	20	1.076133	40	1.011287
4,4'-DDE			5	1.141182	10	1.108491	20	1.098369	40	1.077225	80	0.9961189
Dieldrin			5	1.225418	10	1.190449	20	1.185191	40	1.155764	80	1.077517
Endrin			5	1.158191	10	1.117563	20	1.079508	40	1.061387	80	0.9725989
Endosulfan II			5	0.9400399	10	0.9913797	20	1.005265	40	0.925043	80	0.9337917
4,4'-DDD			5	1.004568	10	0.9927897	20	0.9803235	40	0.9586353	80	0.8937077
Endrin Aldehyde			5	0.8167784	10	0.7834798	20	0.7706241	40	0.7573308	80	0.7147756
4,4'-DDT			5	1.007054	10	0.9936998	20	0.9768522	40	0.9722874	80	0.9123228
Endosulfan Sulfate			5	0.9534179	10	0.9413755	20	0.9158457	40	0.9056998	80	0.8542021
Endrin Ketone			5	1.134866	10	1.083274	20	1.043162	40	1.021136	80	0.9645492
Methoxychlor			25	0.4887243	50	0.4567517	100	0.4291758	200	0.4123964	400	0.380531
Hexachlorobutadiene			2.5	1.967135	5	1.727858	10	1.608612	20	1.550898	40	1.457962
Hexachlorobenzene			2.5	1.583946	5	1.509865	10	1.463674	20	1.414258	40	1.348389
Decachlorobiphenyl			5	0.9567749	10	0.8690419	20	0.8114883	40	0.7853665	80	0.7399881
Tetrachlorometaxylene			5	1.223478	10	1.154628	20	1.122612	40	1.064313	80	1.018952

INITIAL CALIBRATION DATA
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
alpha-BHC	80	1.449687										
beta-BHC	80	0.5324503										
gamma-BHC (Lindane)	80	1.246178										
delta-BHC	80	1.199667										
Heptachlor	80	1.064858										
Aldrin	80	1.204866										
Heptachlor Epoxide	80	1.016142										
trans-Chlordane (beta-Chlordane)	80	1.050129										
cis-Chlordane (alpha-chlordane)	80	1.036345										
Endosulfan I	80	0.9344351										
4,4'-DDE	160	0.9196699										
Dieldrin	160	0.9953457										
Endrin	160	0.903669										
Endosulfan II	160	0.8694106										
4,4'-DDD	160	0.8394108										
Endrin Aldehyde	160	0.6754471										
4,4'-DDT	160	0.8666848										
Endosulfan Sulfate	160	0.808554										
Endrin Ketone	160	0.9150773										
Methoxychlor	800	0.3710888										
Hexachlorobutadiene	80	1.368623										
Hexachlorobenzene	80	1.259233										
2,4'-DDE					5	0.8703192	10	0.8471901	20	0.8231684	40	0.7887622
2,4'-DDD					5	0.761682	10	0.7418629	20	0.7301989	40	0.7053717
2,4'-DDT					5	0.8194572	10	0.8004965	20	0.7842725	40	0.7616258
Oxychlordane					5	1.016746	10	1.011016	20	0.9890796	40	0.9530961
cis-Nonachlor					5	1.323191	10	1.277938	20	1.243982	40	1.217703

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
trans-Nonachlor					5	1.347777	10	1.328677	20	1.28535	40	1.249062
Mirex					5	0.8317764	10	0.8043457	20	0.7641487	40	0.7481553
Decachlorobiphenyl	160	0.7008722										
Tetrachlorometaxylene	160	0.9437243										

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,4'-DDE	80	0.7262802	160	0.6559468								
2,4'-DDD	80	0.6522807	160	0.6001736								
2,4'-DDT	80	0.7135595	160	0.6495601								
Oxychlordane	80	0.9018234	160	0.8351028								
cis-Nonachlor	80	1.140435	160	1.065099								
trans-Nonachlor	80	1.167639	160	1.085646								
Mirex	80	0.706171	160	0.6667706								

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
alpha-BHC	1.540148	3.1			RSD (20)	
beta-BHC	0.5929524	6.8			RSD (20)	
gamma-BHC (Lindane)	1.33534	3.5			RSD (20)	
delta-BHC	1.258744	2.5			RSD (20)	
Heptachlor	1.188151	6.1			RSD (20)	
Aldrin	1.331535	5.2			RSD (20)	
Heptachlor Epoxide	1.15453	6.9			RSD (20)	
trans-Chlordane (beta-Chlordane)	1.172613	6.3			RSD (20)	
cis-Chlordane (alpha-chlordane)	1.176038	8.0			RSD (20)	
Endosulfan I	1.059517	7.1			RSD (20)	
4,4'-DDE	1.056843	7.9			RSD (20)	
Dieldrin	1.138281	7.6			RSD (20)	
Endrin	1.048819	9.0			RSD (20)	
Endosulfan II	0.944155	5.2			RSD (20)	
4,4'-DDD	0.9449058	6.9			RSD (20)	
Endrin Aldehyde	0.7530726	6.7			RSD (20)	
4,4'-DDT	0.9548168	5.7			RSD (20)	
Endosulfan Sulfate	0.8965158	6.2			RSD (20)	
Endrin Ketone	1.027011	7.7			RSD (20)	
Methoxychlor	0.4231113	10.6			RSD (20)	
Hexachlorobutadiene	1.613515	13.2			RSD (20)	
Hexachlorobenzene	1.429894	8.1			RSD (20)	
2,4'-DDE	0.7852778	10.3			RSD (20)	
2,4'-DDD	0.698595	8.8			RSD (20)	
2,4'-DDT	0.7548286	8.4			RSD (20)	
Oxychlordane	0.951144	7.5			RSD (20)	
cis-Nonachlor	1.211391	7.8			RSD (20)	
trans-Nonachlor	1.244025	8.1			RSD (20)	
Mirex	0.7535613	8.1			RSD (20)	
Decachlorobiphenyl	0.8105886	11.4			RSD (20)	
Tetrachlorometaxylene	1.087951	9.2			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
alpha-BHC [2C]			2.5	1.582358	5	1.586238	10	1.633164	20	1.640486	40	1.615441
beta-BHC [2C]			2.5	0.652782	5	0.6172948	10	0.6184608	20	0.6125812	40	0.5918008
gamma-BHC (Lindane) [2C]			2.5	1.355071	5	1.348783	10	1.381456	20	1.392772	40	1.366606
delta-BHC [2C]			2.5	1.323764	5	1.307234	10	1.339425	20	1.328433	40	1.331977
Heptachlor [2C]			2.5	1.270249	5	1.234236	10	1.258409	20	1.272245	40	1.215755
Aldrin [2C]			2.5	1.511397	5	1.416724	10	1.432636	20	1.430376	40	1.370917
Heptachlor Epoxide [2C]			2.5	1.2977	5	1.174596	10	1.174288	20	1.174706	40	1.114434
trans-Chlordane (beta-Chlordane) [2C]			2.5	1.25449	5	1.176102	10	1.164843	20	1.168848	40	1.125534
cis-Chlordane (alpha-chlordane) [2C]			2.5	1.258498	5	1.153199	10	1.135052	20	1.136251	40	1.089792
Endosulfan I [2C]			2.5	1.118263	5	1.044155	10	1.035412	20	1.034697	40	0.9885012
4,4'-DDE [2C]			5	1.120237	10	1.069625	20	1.064387	40	1.055415	80	0.9897135
Dieldrin [2C]			5	1.270008	10	1.162844	20	1.139359	40	1.136098	80	1.071389
Endrin [2C]			5	1.256912	10	1.17909	20	1.159477	40	1.149599	80	1.066056
Endosulfan II [2C]			5	1.296819	10	1.202961	20	1.188491	40	1.160501	80	1.099056
4,4'-DDD [2C]			5	1.234482	10	1.121556	20	1.117792	40	1.112003	80	1.04628
Endrin Aldehyde [2C]			5	0.9430111	10	0.8430348	20	0.8249196	40	0.8129946	80	0.7727701
4,4'-DDT [2C]			5	1.175911	10	1.077825	20	1.067612	40	1.073272	80	1.019364
Endosulfan Sulfate [2C]			5	1.137768	10	1.042553	20	1.030373	40	1.023023	80	0.9721732
Endrin Ketone [2C]			5	1.235631	10	1.119988	20	1.114405	40	1.100852	80	1.047659
Methoxychlor [2C]			25	0.5184064	50	0.4866753	100	0.4751666	200	0.4681736	400	0.4433957
Hexachlorobutadiene [2C]			2.5	1.975612	5	1.648845	10	1.492482	20	1.376096	40	1.341211
Hexachlorobenzene [2C]			2.5	1.602215	5	1.520618	10	1.491402	20	1.450251	40	1.385947
Decachlorobiphenyl [2C]			5	1.087142	10	0.9391597	20	0.8562421	40	0.8499592	80	0.8013928
Tetrachlorometaxylene [2C]			5	1.220863	10	1.179368	20	1.164832	40	1.127982	80	1.06878

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
alpha-BHC [2C]	80	1.561903										
beta-BHC [2C]	80	0.5642956										
gamma-BHC (Lindane) [2C]	80	1.31891										
delta-BHC [2C]	80	1.29291										
Heptachlor [2C]	80	1.144118										
Aldrin [2C]	80	1.281263										
Heptachlor Epoxide [2C]	80	1.046144										
trans-Chlordane (beta-Chlordane) [2C]	80	1.072685										
cis-Chlordane (alpha-chlordane) [2C]	80	1.03859										
Endosulfan I [2C]	80	0.9325836										
4,4'-DDE [2C]	160	0.9356313										
Dieldrin [2C]	160	1.019365										
Endrin [2C]	160	1.013782										
Endosulfan II [2C]	160	1.047801										
4,4'-DDD [2C]	160	1.006382										
Endrin Aldehyde [2C]	160	0.7380269										
4,4'-DDT [2C]	160	0.9933936										
Endosulfan Sulfate [2C]	160	0.9372514										
Endrin Ketone [2C]	160	1.016567										
Methoxychlor [2C]	800	0.4436418										
Hexachlorobutadiene [2C]	80	1.300813										
Hexachlorobenzene [2C]	80	1.304223										
2,4'-DDE [2C]					5	0.8343307	10	0.8052418	20	0.7431295	40	0.7258871
2,4'-DDD [2C]					5	0.9097548	10	0.8797099	20	0.8273813	40	0.8164191
2,4'-DDT [2C]					5	0.9400077	10	0.8804604	20	0.8502582	40	0.8485216
Oxychlordane [2C]					5	0.9644685	10	0.9467754	20	0.9033255	40	0.8966281
cis-Nonachlor [2C]					5	1.449238	10	1.407074	20	1.376474	40	1.372123

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
trans-Nonachlor [2C]					5	1.488853	10	1.51762	20	1.451789	40	1.447663
Mirex [2C]					5	0.9331395	10	0.8115521	20	0.7946205	40	0.762682
Decachlorobiphenyl [2C]	160	0.7711875										
Tetrachlorometaxylene [2C]	160	0.9948184										

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,4'-DDE [2C]	80	0.6667087	160	0.6020159								
2,4'-DDD [2C]	80	0.76623	160	0.7136982								
2,4'-DDT [2C]	80	0.7977257	160	0.7424898								
Oxychlordane [2C]	80	0.8433342	160	0.7909247								
cis-Nonachlor [2C]	80	1.313286	160	1.248174								
trans-Nonachlor [2C]	80	1.376815	160	1.306683								
Mirex [2C]	80	0.7399752	160	0.7075065								

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
alpha-BHC [2C]	1.603265	1.9			RSD (20)	
beta-BHC [2C]	0.6095359	4.9			RSD (20)	
gamma-BHC (Lindane) [2C]	1.3606	1.9			RSD (20)	
delta-BHC [2C]	1.320624	1.3			RSD (20)	
Heptachlor [2C]	1.232502	3.9			RSD (20)	
Aldrin [2C]	1.407219	5.4			RSD (20)	
Heptachlor Epoxide [2C]	1.163645	7.1			RSD (20)	
trans-Chlordane (beta-Chlordane) [2C]	1.160417	5.2			RSD (20)	
cis-Chlordane (alpha-chlordane) [2C]	1.13523	6.5			RSD (20)	
Endosulfan I [2C]	1.025602	6.0			RSD (20)	
4,4'-DDE [2C]	1.039168	6.3			RSD (20)	
Dieldrin [2C]	1.133177	7.5			RSD (20)	
Endrin [2C]	1.137486	7.6			RSD (20)	
Endosulfan II [2C]	1.165938	7.4			RSD (20)	
4,4'-DDD [2C]	1.106416	7.0			RSD (20)	
Endrin Aldehyde [2C]	0.8224595	8.5			RSD (20)	
4,4'-DDT [2C]	1.067896	5.9			RSD (20)	
Endosulfan Sulfate [2C]	1.023857	6.7			RSD (20)	
Endrin Ketone [2C]	1.10585	6.8			RSD (20)	
Methoxychlor [2C]	0.4725766	6.0			RSD (20)	
Hexachlorobutadiene [2C]	1.52251	16.8			RSD (20)	
Hexachlorobenzene [2C]	1.459109	7.2			RSD (20)	
2,4'-DDE [2C]	0.7295523	11.8			RSD (20)	
2,4'-DDD [2C]	0.8188656	8.8			RSD (20)	
2,4'-DDT [2C]	0.8432439	8.1			RSD (20)	
Oxychlordane [2C]	0.8909094	7.3			RSD (20)	
cis-Nonachlor [2C]	1.361061	5.2			RSD (20)	
trans-Nonachlor [2C]	1.43157	5.4			RSD (20)	
Mirex [2C]	0.7915793	9.9			RSD (20)	
Decachlorobiphenyl [2C]	0.8841805	13.0			RSD (20)	
Tetrachlorometaxylene [2C]	1.126107	7.3			RSD (20)	

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ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6 Element Column ID:
Calibration ID: FL00041

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0233-PEM1	DS1	QC		1	K007286	K006953		
SKL0233-CAL1	INDAA	QC		2	K011594	K006953		
SKL0233-CAL2	INDAB	QC		3	K011593	K006953		
SKL0233-CAL3	INDAC	QC		4	K011592	K006953		
SKL0233-CAL4	INDAD	QC		5	K011591	K006953		
SKL0233-CAL5	INDAE	QC		6	K011590	K006953		
SKL0233-CAL6	INDAF	QC		7	K011589	K006953		
SKL0233-CAL7	INDAG	QC		8	K011463	K006953		
SKL0233-CAL8	WNDA	QC		9	K011595	K006953		
SKL0233-CAL9	WNDB	QC		10	K007148	K006953		
SKL0233-CALA	WNDC	QC		11	K007147	K006953		
SKL0233-CALB	WNDD	QC		12	K007146	K006953		
SKL0233-CALC	WNDE	QC		13	K007145	K006953		
SKL0233-CALD	WNDF	QC		14	K007144	K006953		
SKL0233-CALE	WNDG	QC		15	K007093	K006953		
SKL0233-CALM	NOS1	QC		16	K007375	K006953		
SKL0233-CALN	NOS2	QC		17	K007374	K006953		
SKL0233-CALO	NOS3	QC		18	K007373	K006953		
SKL0233-CALP	NOS4	QC		19	K007372	K006953		
SKL0233-CALQ	NOS5	QC		20	K007371	K006953		
SKL0233-CALR	NOS6	QC		21	K007370	K006953		
SKL0233-CALS	NOS7	QC		22	K007287	K006953		

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ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6 Element Column ID:
Calibration ID: FL00041

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0233-CALF	TOXAPH1	QC		23	K011601	K006953		
SKL0233-CALG	TOXAPH2	QC		24	K011600	K006953		
SKL0233-CALH	TOXAPH3	QC		25	K011599	K006953		
SKL0233-CALI	TOXAPH4	QC		26	K011598	K006953		
SKL0233-CALJ	TOXAPH5	QC		27	K011597	K006953		
SKL0233-CALK	TOXAPH6	QC		28	K011596	K006953		
SKL0233-CALL	TOXAPH7	QC		29	K008546	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	14-DEC-2022 19:27	22121401.D	1	RINSE	
2	14-DEC-2022 19:44	22121402.D	1	RINSE	
3	14-DEC-2022 20:02	22121403.D	1	SEQ-IBL1	
4	14-DEC-2022 20:20	22121404.D	1	SEQ-PEM1	
5	14-DEC-2022 20:38	22121405.D	1	SEQ-CAL1	
6	14-DEC-2022 20:56	22121406.D	1	SEQ-CAL2	
7	14-DEC-2022 21:14	22121407.D	1	SEQ-CAL3	
8	14-DEC-2022 21:31	22121408.D	1	SEQ-CAL4	
9	14-DEC-2022 21:49	22121409.D	1	SEQ-CAL5	
10	14-DEC-2022 22:07	22121410.D	1	SEQ-CAL6	
11	14-DEC-2022 22:25	22121411.D	1	SEQ-CAL7	
12	14-DEC-2022 22:43	22121412.D	1	SEQ-CAL8	
13	14-DEC-2022 23:01	22121413.D	1	SEQ-CAL9	
14	14-DEC-2022 23:19	22121414.D	1	SEQ-CALA	
15	14-DEC-2022 23:36	22121415.D	1	SEQ-CALB	
16	14-DEC-2022 23:54	22121416.D	1	SEQ-CALC	
17	15-DEC-2022 00:12	22121417.D	1	SEQ-CALD	
18	15-DEC-2022 00:30	22121418.D	1	SEQ-CALE	
19	15-DEC-2022 00:48	22121419.D	1	SEQ-SCV1	
20	15-DEC-2022 01:06	22121420.D	1	SEQ-SCV2	
21	15-DEC-2022 01:24	22121421.D	1	SEQ-CAL1A	
22	15-DEC-2022 01:42	22121422.D	1	SEQ-CAL2A	
23	15-DEC-2022 01:59	22121423.D	1	SEQ-CAL3A	
24	15-DEC-2022 02:17	22121424.D	1	SEQ-CAL4A	
25	15-DEC-2022 02:35	22121425.D	1	SEQ-CAL5A	
26	15-DEC-2022 02:53	22121426.D	1	SEQ-CAL6A	
27	15-DEC-2022 03:11	22121427.D	1	SEQ-CAL7A	
28	15-DEC-2022 03:29	22121428.D	1	SEQ-CAL8A	
29	15-DEC-2022 03:46	22121429.D	1	SEQ-CAL9A	
30	15-DEC-2022 04:04	22121430.D	1	SEQ-CALAA	
31	15-DEC-2022 04:22	22121431.D	1	SEQ-CALAB	
32	15-DEC-2022 04:40	22121432.D	1	SEQ-CALAC	
33	15-DEC-2022 04:58	22121433.D	1	SEQ-CALAD	
34	15-DEC-2022 05:16	22121434.D	1	SEQ-CALAE	
35	15-DEC-2022 05:33	22121435.D	1	SEQ-PEM2	
36	15-DEC-2022 05:51	22121436.D	1	SEQ-ICV1	
37	15-DEC-2022 06:09	22121437.D	1	SEQ-ICV2	
38	15-DEC-2022 06:27	22121438.D	1	SEQ-ICV3	
39	15-DEC-2022 06:45	22121439.D	1	SEQ-ICV4	
40	15-DEC-2022 07:03	22121440.D	1	BKK0688-BLK1	
41	15-DEC-2022 07:21	22121441.D	1	BKK0688-BS1	
42	15-DEC-2022 07:39	22121442.D	1	BKK0688-BS2	
43	15-DEC-2022 07:57	22121443.D	1	BKK0688-BS3	
44	15-DEC-2022 08:15	22121444.D	1	BKK0688-BSD1	
45	15-DEC-2022 08:32	22121445.D	1	BKK0142-BLK1	
46	15-DEC-2022 08:50	22121446.D	1	BKK0142-BS1	
47	15-DEC-2022 09:08	22121447.D	1	BKK0142-BS2	
48	15-DEC-2022 09:26	22121448.D	1	BKK0142-BSD1	
49	15-DEC-2022 09:44	22121449.D	1	BKK0142-MS1	
50	15-DEC-2022 10:02	22121450.D	1	BKK0142-MSD1	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b p

	Inject Date/Time	Filename	DF	LabID	ClientID
51	15-DEC-2022 10:20	22121451.D	1	22J0513-01	
52	15-DEC-2022 10:38	22121452.D	1	22J0513-04	
53	15-DEC-2022 10:55	22121453.D	1	22J0535-01	
54	15-DEC-2022 11:13	22121454.D	1	22K0429-01	
55	15-DEC-2022 11:31	22121455.D	1	22K0429-02	
56	15-DEC-2022 11:49	22121456.D	1	22K0429-03	
57	15-DEC-2022 12:07	22121457.D	1	SEQ-PEM3	
58	15-DEC-2022 12:25	22121458.D	1	SEQ-CCV1	
59	15-DEC-2022 12:43	22121459.D	1	SEQ-CCV2	
60	15-DEC-2022 13:01	22121460.D	1	SEQ-CCV3	
61	15-DEC-2022 13:19	22121461.D	1	SEQ-CCV4	
62	15-DEC-2022 13:36	22121462.D	1	BKK0380-BLK1	
63	15-DEC-2022 13:54	22121463.D	1	BKK0380-BS1	
64	15-DEC-2022 14:12	22121464.D	1	BKK0380-BSD1	
65	15-DEC-2022 14:30	22121465.D	1	22K0157-01	
66	15-DEC-2022 14:48	22121466.D	1	22K0230-01	
67	15-DEC-2022 15:06	22121467.D	1	22K0231-01	
68	15-DEC-2022 15:24	22121468.D	1	BKK0382-BLK1	
69	15-DEC-2022 15:42	22121469.D	1	BKK0382-BS1	
70	15-DEC-2022 16:00	22121470.D	1	BKK0382-BS2	
71	15-DEC-2022 16:18	22121471.D	1	BKK0382-BSD1	
72	15-DEC-2022 16:35	22121472.D	1	22K0075-01	
73	15-DEC-2022 16:53	22121473.D	1	SEQ-PEM4	
74	15-DEC-2022 17:11	22121474.D	1	SEQ-CCV5	
75	15-DEC-2022 17:29	22121475.D	1	SEQ-CCV6	
76	15-DEC-2022 17:47	22121476.D	1	SEQ-CCV7	
77	15-DEC-2022 18:05	22121477.D	1	SEQ-CCV8	
78	15-DEC-2022 18:23	22121478.D	1	BKK0537-BLK1	
79	15-DEC-2022 18:40	22121479.D	1	BKK0537-BS1	
80	15-DEC-2022 18:58	22121480.D	1	BKK0537-BS2	
81	15-DEC-2022 19:16	22121481.D	1	22K0194-01	
82	15-DEC-2022 19:34	22121482.D	1	22K0194-01RE1	10
83	15-DEC-2022 19:52	22121483.D	1	SEQ-PEM5	
84	15-DEC-2022 20:09	22121484.D	1	SEQ-CCV9	
85	15-DEC-2022 20:27	22121485.D	1	SEQ-CCVA	
86	15-DEC-2022 20:45	22121486.D	1	SEQ-CCVB	
87	15-DEC-2022 21:03	22121487.D	1	SEQ-CCVC	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

ARI Job No.: RINS Method: PEST.m Instrument: ecd6.i Date: 14-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1927	22121401.D	RINSE		1	NO MANUAL INTEGRATION
1944	22121402.D	RINSE		1	NO MANUAL INTEGRATION
2002	22121403.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
2020	22121404.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
2038	22121405.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
2056	22121406.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
2114	22121407.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
2131	22121408.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
2149	22121409.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
2207	22121410.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
2225	22121411.D	SEQ-CAL7		1	NO MANUAL INTEGRATION
2243	22121412.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
2301	22121413.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
2319	22121414.D	SEQ-CALA		1	NO MANUAL INTEGRATION
2336	22121415.D	SEQ-CALB		1	NO MANUAL INTEGRATION
2354	22121416.D	SEQ-CALC		1	NO MANUAL INTEGRATION
0012	22121417.D	SEQ-CALD		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0030	22121418.D	SEQ-CALE		1	NO MANUAL INTEGRATION
0048	22121419.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
0106	22121420.D	SEQ-SCV2		1	NO MANUAL INTEGRATION
0124	22121421.D	SEQ-CAL1A		1	NO MANUAL INTEGRATION
0142	22121422.D	SEQ-CAL2A		1	NO MANUAL INTEGRATION
0159	22121423.D	SEQ-CAL3A		1	NO MANUAL INTEGRATION
0217	22121424.D	SEQ-CAL4A		1	NO MANUAL INTEGRATION
0235	22121425.D	SEQ-CAL5A		1	NO MANUAL INTEGRATION
0253	22121426.D	SEQ-CAL6A		1	NO MANUAL INTEGRATION
0311	22121427.D	SEQ-CAL7A		1	NO MANUAL INTEGRATION
0329	22121428.D	SEQ-CAL8A		1	NO MANUAL INTEGRATION
0346	22121429.D	SEQ-CAL9A		1	NO MANUAL INTEGRATION
0404	22121430.D	SEQ-CALAA		1	NO MANUAL INTEGRATION
0422	22121431.D	SEQ-CALAB		1	NO MANUAL INTEGRATION
0440	22121432.D	SEQ-CALAC		1	NO MANUAL INTEGRATION
0458	22121433.D	SEQ-CALAD		1	NO MANUAL INTEGRATION
0516	22121434.D	SEQ-CALAE		1	NO MANUAL INTEGRATION
0533	22121435.D	SEQ-PEM2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0551	22121436.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
0609	22121437.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
0627	22121438.D	SEQ-ICV3		1	NO MANUAL INTEGRATION
0645	22121439.D	SEQ-ICV4		1	NO MANUAL INTEGRATION
0703	22121440.D	BKK0688-BLK1		1	NO MANUAL INTEGRATION
0721	22121441.D	BKK0688-BS1		1	NO MANUAL INTEGRATION
0739	22121442.D	BKK0688-BS2		1	NO MANUAL INTEGRATION
0757	22121443.D	BKK0688-BS3		1	NO MANUAL INTEGRATION
0815	22121444.D	BKK0688-BSD1		1	NO MANUAL INTEGRATION
0832	22121445.D	BKK0142-BLK1		1	NO MANUAL INTEGRATION
0850	22121446.D	BKK0142-BS1		1	NO MANUAL INTEGRATION
0908	22121447.D	BKK0142-BS2		1	NO MANUAL INTEGRATION
0926	22121448.D	BKK0142-BSD1		1	NO MANUAL INTEGRATION
0944	22121449.D	BKK0142-MS1		1	NO MANUAL INTEGRATION
1002	22121450.D	BKK0142-MSD1		1	NO MANUAL INTEGRATION
1020	22121451.D	22J0513-01		1	NO MANUAL INTEGRATION
1038	22121452.D	22J0513-04		1	NO MANUAL INTEGRATION
1055	22121453.D	22J0535-01		1	trans-Chlordane,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1113	22121454.D	22K0429-01		1	Heptachlor epoxide b,
1131	22121455.D	22K0429-02		1	Heptachlor epoxide b,
1149	22121456.D	22K0429-03		1	Hexachlorobenzene,
1207	22121457.D	SEQ-PEM3		1	NO MANUAL INTEGRATION
1225	22121458.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
1243	22121459.D	SEQ-CCV2		1	NO MANUAL INTEGRATION
1301	22121460.D	SEQ-CCV3		1	NO MANUAL INTEGRATION
1319	22121461.D	SEQ-CCV4		1	NO MANUAL INTEGRATION
1336	22121462.D	BKK0380-BLK1		1	NO MANUAL INTEGRATION
1354	22121463.D	BKK0380-BS1		1	NO MANUAL INTEGRATION
1412	22121464.D	BKK0380-BSD1		1	NO MANUAL INTEGRATION
1430	22121465.D	22K0157-01		1	NO MANUAL INTEGRATION
1448	22121466.D	22K0230-01		1	NO MANUAL INTEGRATION
1506	22121467.D	22K0231-01		1	NO MANUAL INTEGRATION
1524	22121468.D	BKK0382-BLK1		1	NO MANUAL INTEGRATION
1542	22121469.D	BKK0382-BS1		1	NO MANUAL INTEGRATION
1600	22121470.D	BKK0382-BS2		1	NO MANUAL INTEGRATION
1618	22121471.D	BKK0382-BSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1635	22121472.D	22K0075-01		1	NO MANUAL INTEGRATION
1653	22121473.D	SEQ-PEM4		1	NO MANUAL INTEGRATION
1711	22121474.D	SEQ-CCV5		1	NO MANUAL INTEGRATION
1729	22121475.D	SEQ-CCV6		1	NO MANUAL INTEGRATION
1747	22121476.D	SEQ-CCV7		1	NO MANUAL INTEGRATION
1805	22121477.D	SEQ-CCV8		1	NO MANUAL INTEGRATION
1823	22121478.D	BKK0537-BLK1		1	NO MANUAL INTEGRATION
1840	22121479.D	BKK0537-BS1		1	NO MANUAL INTEGRATION
1858	22121480.D	BKK0537-BS2		1	NO MANUAL INTEGRATION
1916	22121481.D	22K0194-01		1	NO MANUAL INTEGRATION
1934	22121482.D	22K0194-01RE1	10	1	NO MANUAL INTEGRATION
1952	22121483.D	SEQ-PEM5		1	NO MANUAL INTEGRATION
2009	22121484.D	SEQ-CCV9		1	NO MANUAL INTEGRATION
2027	22121485.D	SEQ-CCVA		1	NO MANUAL INTEGRATION
2045	22121486.D	SEQ-CCVB		1	NO MANUAL INTEGRATION
2103	22121487.D	SEQ-CCVC		1	NO MANUAL INTEGRATION
1927	22121401.D	RINSE		1	NO MANUAL INTEGRATION
1944	22121402.D	RINSE		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2002	22121403.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
2020	22121404.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
2038	22121405.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
2056	22121406.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
2114	22121407.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
2131	22121408.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
2149	22121409.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
2207	22121410.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
2225	22121411.D	SEQ-CAL7		1	NO MANUAL INTEGRATION
2243	22121412.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
2301	22121413.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
2319	22121414.D	SEQ-CALA		1	NO MANUAL INTEGRATION
2336	22121415.D	SEQ-CALB		1	NO MANUAL INTEGRATION
2354	22121416.D	SEQ-CALC		1	NO MANUAL INTEGRATION
0012	22121417.D	SEQ-CALD		1	NO MANUAL INTEGRATION
0030	22121418.D	SEQ-CALE		1	NO MANUAL INTEGRATION
0048	22121419.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
0106	22121420.D	SEQ-SCV2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0124	22121421.D	SEQ-CAL1A		1	NO MANUAL INTEGRATION
0142	22121422.D	SEQ-CAL2A		1	NO MANUAL INTEGRATION
0159	22121423.D	SEQ-CAL3A		1	NO MANUAL INTEGRATION
0217	22121424.D	SEQ-CAL4A		1	NO MANUAL INTEGRATION
0235	22121425.D	SEQ-CAL5A		1	NO MANUAL INTEGRATION
0253	22121426.D	SEQ-CAL6A		1	NO MANUAL INTEGRATION
0311	22121427.D	SEQ-CAL7A		1	NO MANUAL INTEGRATION
0329	22121428.D	SEQ-CAL8A		1	NO MANUAL INTEGRATION
0346	22121429.D	SEQ-CAL9A		1	NO MANUAL INTEGRATION
0404	22121430.D	SEQ-CALAA		1	NO MANUAL INTEGRATION
0422	22121431.D	SEQ-CALAB		1	NO MANUAL INTEGRATION
0440	22121432.D	SEQ-CALAC		1	NO MANUAL INTEGRATION
0458	22121433.D	SEQ-CALAD		1	NO MANUAL INTEGRATION
0516	22121434.D	SEQ-CALAE		1	NO MANUAL INTEGRATION
0533	22121435.D	SEQ-PEM2		1	NO MANUAL INTEGRATION
0551	22121436.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
0609	22121437.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
0627	22121438.D	SEQ-ICV3		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0645	22121439.D	SEQ-ICV4		1	NO MANUAL INTEGRATION
0703	22121440.D	BKK0688-BLK1		1	NO MANUAL INTEGRATION
0721	22121441.D	BKK0688-BS1		1	NO MANUAL INTEGRATION
0739	22121442.D	BKK0688-BS2		1	NO MANUAL INTEGRATION
0757	22121443.D	BKK0688-BS3		1	NO MANUAL INTEGRATION
0815	22121444.D	BKK0688-BSD1		1	NO MANUAL INTEGRATION
0832	22121445.D	BKK0142-BLK1		1	NO MANUAL INTEGRATION
0850	22121446.D	BKK0142-BS1		1	NO MANUAL INTEGRATION
0908	22121447.D	BKK0142-BS2		1	NO MANUAL INTEGRATION
0926	22121448.D	BKK0142-BSD1		1	NO MANUAL INTEGRATION
0944	22121449.D	BKK0142-MS1		1	NO MANUAL INTEGRATION
1002	22121450.D	BKK0142-MSD1		1	NO MANUAL INTEGRATION
1020	22121451.D	22J0513-01		1	NO MANUAL INTEGRATION
1038	22121452.D	22J0513-04		1	NO MANUAL INTEGRATION
1055	22121453.D	22J0535-01		1	trans-Chlordane [C],
1113	22121454.D	22K0429-01		1	NO MANUAL INTEGRATION
1131	22121455.D	22K0429-02		1	Aldrin [C], Heptachlor epoxide b [C], trans-Chlordane [C],
1149	22121456.D	22K0429-03		1	Aldrin [C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1207	22121457.D	SEQ-PEM3		1	NO MANUAL INTEGRATION
1225	22121458.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
1243	22121459.D	SEQ-CCV2		1	NO MANUAL INTEGRATION
1301	22121460.D	SEQ-CCV3		1	NO MANUAL INTEGRATION
1319	22121461.D	SEQ-CCV4		1	NO MANUAL INTEGRATION
1336	22121462.D	BKK0380-BLK1		1	NO MANUAL INTEGRATION
1354	22121463.D	BKK0380-BS1		1	NO MANUAL INTEGRATION
1412	22121464.D	BKK0380-BSD1		1	NO MANUAL INTEGRATION
1430	22121465.D	22K0157-01		1	NO MANUAL INTEGRATION
1448	22121466.D	22K0230-01		1	NO MANUAL INTEGRATION
1506	22121467.D	22K0231-01		1	NO MANUAL INTEGRATION
1524	22121468.D	BKK0382-BLK1		1	NO MANUAL INTEGRATION
1542	22121469.D	BKK0382-BS1		1	NO MANUAL INTEGRATION
1600	22121470.D	BKK0382-BS2		1	NO MANUAL INTEGRATION
1618	22121471.D	BKK0382-BSD1		1	NO MANUAL INTEGRATION
1635	22121472.D	22K0075-01		1	NO MANUAL INTEGRATION
1653	22121473.D	SEQ-PEM4		1	NO MANUAL INTEGRATION
1711	22121474.D	SEQ-CCV5		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1729	22121475.D	SEQ-CCV6		1	NO MANUAL INTEGRATION
1747	22121476.D	SEQ-CCV7		1	NO MANUAL INTEGRATION
1805	22121477.D	SEQ-CCV8		1	NO MANUAL INTEGRATION
1823	22121478.D	BKK0537-BLK1		1	NO MANUAL INTEGRATION
1840	22121479.D	BKK0537-BS1		1	NO MANUAL INTEGRATION
1858	22121480.D	BKK0537-BS2		1	NO MANUAL INTEGRATION
1916	22121481.D	22K0194-01		1	NO MANUAL INTEGRATION
1934	22121482.D	22K0194-01RE1	10	1	NO MANUAL INTEGRATION
1952	22121483.D	SEQ-PEM5		1	NO MANUAL INTEGRATION
2010	22121484.D	SEQ-CCV9		1	NO MANUAL INTEGRATION
2027	22121485.D	SEQ-CCVA		1	NO MANUAL INTEGRATION
2045	22121486.D	SEQ-CCVB		1	NO MANUAL INTEGRATION
2103	22121487.D	SEQ-CCVC		1	NO MANUAL INTEGRATION

Security Status Report

Date: 17-Dec-2022 10:57

22121401.D	Data Locked	jrains, 17-Dec-2022 10:57
22121402.D	Data Locked	jrains, 17-Dec-2022 10:57
22121403.D	Data Locked	jrains, 17-Dec-2022 10:57
22121404.D	Data Locked	jrains, 17-Dec-2022 10:57
22121405.D	Data Locked	jrains, 17-Dec-2022 10:57
22121406.D	Data Locked	jrains, 17-Dec-2022 10:57
22121407.D	Data Locked	jrains, 17-Dec-2022 10:57
22121408.D	Data Locked	jrains, 17-Dec-2022 10:57
22121409.D	Data Locked	jrains, 17-Dec-2022 10:57
22121410.D	Data Locked	jrains, 17-Dec-2022 10:57
22121411.D	Data Locked	jrains, 17-Dec-2022 10:57
22121412.D	Data Locked	jrains, 17-Dec-2022 10:57
22121413.D	Data Locked	jrains, 17-Dec-2022 10:57
22121414.D	Data Locked	jrains, 17-Dec-2022 10:57
22121415.D	Data Locked	jrains, 17-Dec-2022 10:57
22121416.D	Data Locked	jrains, 17-Dec-2022 10:57
22121417.D	Data Locked	jrains, 17-Dec-2022 10:57
22121418.D	Data Locked	jrains, 17-Dec-2022 10:57
22121419.D	Data Locked	jrains, 17-Dec-2022 10:57
22121420.D	Data Locked	jrains, 17-Dec-2022 10:57
22121421.D	Data Locked	jrains, 17-Dec-2022 10:57
22121422.D	Data Locked	jrains, 17-Dec-2022 10:57
22121423.D	Data Locked	jrains, 17-Dec-2022 10:57
22121424.D	Data Locked	jrains, 17-Dec-2022 10:57
22121425.D	Data Locked	jrains, 17-Dec-2022 10:57
22121426.D	Data Locked	jrains, 17-Dec-2022 10:57
22121427.D	Data Locked	jrains, 17-Dec-2022 10:57
22121428.D	Data Locked	jrains, 17-Dec-2022 10:57
22121429.D	Data Locked	jrains, 17-Dec-2022 10:57
22121430.D	Data Locked	jrains, 17-Dec-2022 10:57
22121431.D	Data Locked	jrains, 17-Dec-2022 10:57
22121432.D	Data Locked	jrains, 17-Dec-2022 10:57
22121433.D	Data Locked	jrains, 17-Dec-2022 10:57
22121434.D	Data Locked	jrains, 17-Dec-2022 10:57

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121428.D
Level 2: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121429.D
Level 3: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121430.D
Level 4: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121431.D
Level 5: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121432.D
Level 6: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121433.D
Level 7: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121434.D

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
1 Hexachlorobutadiene [C]	+++++	1.97561	1.64885	1.49248	1.37610	1.34121	1.30081	1.52251	16.761
5 Hexachlorobenzene [C]	+++++	1.60221	1.52062	1.49140	1.45025	1.38595	1.30422	1.45911	7.170
6 alpha-BHC [C]	+++++	1.58236	1.58624	1.63316	1.64049	1.61544	1.56190	1.60327	1.946
7 gamma-BHC (Lindane) [C]	+++++	1.35507	1.34878	1.38146	1.39277	1.36661	1.31891	1.36060	1.921
8 beta-BHC [C]	+++++	0.65278	0.61729	0.61846	0.61258	0.59180	0.56430	0.60954	4.856
9 delta-BHC [C]	+++++	1.32376	1.30723	1.33943	1.32843	1.33198	1.29291	1.32062	1.312
10 Heptachlor [C]	+++++	1.27025	1.23424	1.25841	1.27225	1.21576	1.14412	1.23250	3.937
11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
12 Aldrin [C]	+++++	1.51140	1.41672	1.43264	1.43038	1.37092	1.28126	1.40722	5.441
13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Heptachlor epoxide b [C]	+++++	1.29770	1.17460	1.17429	1.17471	1.11443	1.04614	1.16364	7.144
15 cis-Chlordane [C]	+++++	1.25850	1.15320	1.13505	1.13625	1.08979	1.03859	1.13523	6.464
16 trans-Chlordane [C]	+++++	1.25449	1.17610	1.16484	1.16885	1.12553	1.07269	1.16042	5.185
17 Endosulfan I [C]	+++++	1.11826	1.04415	1.03541	1.03470	0.98850	0.93258	1.02560	6.032
18 4,4'-DDE [C]	+++++	1.12024	1.06963	1.06439	1.05541	0.98971	0.93563	1.03917	6.320
19 Dieldrin [C]	+++++	1.27001	1.16284	1.13936	1.13610	1.07139	1.01937	1.13318	7.532
20 Endrin [C]	+++++	1.25691	1.17909	1.15948	1.14960	1.06606	1.01378	1.13749	7.566
21 4,4'-DDD [C]	+++++	1.23448	1.12156	1.11779	1.11200	1.04628	1.00638	1.10642	7.049
22 Endosulfan II [C]	+++++	1.29682	1.20296	1.18849	1.16050	1.09906	1.04780	1.16594	7.425

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
23 4,4'-DDT [C]	+++++	1.17591	1.07782	1.06761	1.07327	1.01936	0.99339	1.06790	5.878
24 Endrin aldehyde [C]	+++++	0.94301	0.84303	0.82492	0.81299	0.77277	0.73803	0.82246	8.537
25 Endosulfan sulfate [C]	+++++	1.13777	1.04255	1.03037	1.02302	0.97217	0.93725	1.02386	6.702
26 Methoxychlor [C]	+++++	0.51841	0.48668	0.47517	0.46817	0.44340	0.44364	0.47258	5.996
27 Endrin ketone [C]	+++++	1.23563	1.11999	1.11440	1.10085	1.04766	1.01657	1.10585	6.827
29 Aroclor-1016(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
31 Aroclor-1232(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
32 Aroclor-1242(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
33 Aroclor-1248(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
34 Aroclor-1254(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
35 Aroclor-1260(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
36 Aroclor-1262(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
37 Aroclor-1268(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
38 Toxaphene [C](1)	0.01492	0.01529	0.01573	0.01558	0.01527	0.01455	0.01387	0.01503	4.285
(2)	0.03524	0.03538	0.03581	0.03480	0.03351	0.03170	0.03010	0.03379	6.368
(3)	0.02615	0.02659	0.02671	0.02640	0.02571	0.02464	0.02387	0.02572	4.197
(4)	0.08868	0.08690	0.08740	0.08502	0.08225	0.07926	0.07782	0.08390	5.022
(5)	0.04138	0.04124	0.04193	0.04145	0.04102	0.04046	0.04062	0.04116	1.227
39 2,4-DDE [C]	*****	0.83433	0.80524	0.74313	0.72589	0.66671	0.60202	0.72955	11.810

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
40 2,4-DDD [C]	+++++	0.90975	0.87971	0.82738	0.81642	0.76623	0.71370	0.81887	8.785
41 2,4-DDT [C]	+++++	0.94001	0.88046	0.85026	0.84852	0.79773	0.74249	0.84324	8.052
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Oxychlordane [C]	+++++	0.96447	0.94678	0.90333	0.89663	0.84333	0.79092	0.89091	7.271
44 trans-Nonachlor [C]	+++++	1.48885	1.51762	1.45179	1.44766	1.37681	1.30668	1.43157	5.406
45 cis-Nonachlor [C]	+++++	1.44924	1.40707	1.37647	1.37212	1.31329	1.24817	1.36106	5.224
46 Mirex [C]	+++++	0.93314	0.81155	0.79462	0.76268	0.73998	0.70751	0.79158	9.949
47 bis-(2-ethylhexyl) Phthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Chlordane (NOS) [C](1)	0.03877	0.03690	0.03764	0.03840	0.03761	0.03805	0.03764	0.03786	1.615
(2)	0.04647	0.04439	0.04416	0.04357	0.04103	0.03978	0.03825	0.04252	6.844
(3)	0.14135	0.14252	0.14927	0.15059	0.14418	0.14081	0.13812	0.14383	3.173

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
49 Trifluralin	*****	*****	*****	*****	*****	*****	*****	*****	*****
50 Dacthal	*****	*****	*****	*****	*****	*****	*****	*****	*****
51 Oxadiazon	*****	*****	*****	*****	*****	*****	*****	*****	*****
52 Kelthane	*****	*****	*****	*****	*****	*****	*****	*****	*****
53 Chlorpyrifos	*****	*****	*****	*****	*****	*****	*****	*****	*****
54 Methyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
55 Ethyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
56 Kepone [C]	*****	*****	*****	*****	*****	*****	*****	*****	*****
57 1-Chloropyrene	*****	*****	*****	*****	*****	*****	*****	*****	*****
$ 4 Tetrachloro-m-xylene [C]	*****	1.22086	1.17937	1.16483	1.12798	1.06878	0.99482	1.12611	7.306
$ 28 Decachlorobiphenyl [C]	*****	1.08714	0.93916	0.85624	0.84996	0.80139	0.77119	0.88418	12.973

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd6.i\20220809.b\22080909.D
Level 2: \\target\share\chem4\ecd6.i\20220809.b\22080910.D
Level 3: \\target\share\chem4\ecd6.i\20220809.b\22080911.D
Level 4: \\target\share\chem4\ecd6.i\20220809.b\22080912.D
Level 5: \\target\share\chem4\ecd6.i\20220809.b\22080913.D
Level 6: \\target\share\chem4\ecd6.i\20220809.b\22080914.D
Level 7: \\target\share\chem4\ecd6.i\20220809.b\22080915.D

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
1 Hexachlorobutadiene	+++++	1.64215	1.55667	1.51049	1.47308	1.40536		
	1.30292						1.48178	7.988
5 Hexachlorobenzene	+++++	1.48647	1.40778	1.36481	1.31957	1.25458		
	1.15582						1.33150	8.750
6 alpha-BHC	+++++	1.41183	1.40802	1.42270	1.42790	1.37811		
	1.29587						1.39074	3.567
7 gamma-BHC (Lindane)	+++++	1.20108	1.18733	1.20704	1.21598	1.18532		
	1.11861						1.18589	2.948
8 beta-BHC	+++++	0.65244	0.60612	0.58927	0.57533	0.54649		
	0.50588						0.57925	8.684
9 delta-BHC	+++++	1.15252	1.13315	1.18185	1.21952	1.21492		
	1.16159						1.17726	2.950
10 Heptachlor	+++++	1.18674	1.12881	1.11527	1.09009	1.03076		
	0.94214						1.08230	7.897
11 Aldrin	+++++	1.14505	1.10493	1.10576	1.09698	1.04621		
	0.96536						1.07738	5.877

ARI Labs, Inc.

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Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Heptachlor epoxide b	+++++	1.05278	0.99602	0.98316	0.95413	0.89408	0.81733	0.94959	8.751
15 cis-Chlordane	+++++	1.00217	0.95563	0.94931	0.93343	0.89233	0.82943	0.92705	6.424
16 trans-Chlordane	+++++	1.02223	0.96054	0.95840	0.94631	0.90606	0.84267	0.93937	6.420
17 Endosulfan I	+++++	1.10444	1.01004	0.97510	0.92642	0.86761	0.77363	0.94287	12.207
18 4,4'-DDE	+++++	0.85783	0.84618	0.86175	0.85068	0.80349	0.73346	0.82557	6.027
19 Dieldrin	+++++	1.02112	0.97469	0.96064	0.93395	0.87876	0.79720	0.92773	8.553
20 Endrin	+++++	1.03359	0.99258	1.01493	1.03951	0.95184	0.92125	0.99228	4.755
21 4,4'-DDD	+++++	1.26749	1.21690	1.21140	1.19455	1.09258	1.02286	1.16763	7.815
22 Endosulfan II	+++++	1.32213	1.30831	1.28817	1.25191	1.14300	1.05695	1.22841	8.614

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
23 4,4'-DDT	+++++	1.20278	1.19912	1.21231	1.21971	1.13284	1.06544	1.17203	5.186
24 Endrin aldehyde	+++++	1.05042	1.01673	1.00197	0.99460	0.91340	0.84575	0.97048	7.836
25 Methoxychlor	+++++	0.56408	0.54010	0.51985	0.50693	0.45626	0.43428	0.50358	9.854
26 Endosulfan sulfate	+++++	1.14290	1.11216	1.09802	1.09968	1.00734	0.94888	1.06816	6.922
27 Endrin ketone	+++++	1.47959	1.40243	1.34455	1.31335	1.19489	1.12695	1.31029	9.966
29 Aroclor-1016(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
31 Aroclor-1232(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 Aroclor-1242(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(6)	*****	*****	*****	*****	*****	*****	*****	*****	*****
33 Aroclor-1248(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 Aroclor-1254(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
35 Aroclor-1260(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
36 Aroclor-1262(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

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Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
37 Aroclor-1268(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
38 Toxaphene(1)	0.02824	0.03896	0.03693	0.03480	0.03418	0.02891	0.02792	0.03285	13.645
(2)	0.08343	0.10636	0.10204	0.09499	0.09608	0.08394	0.08263	0.09278	10.362
(3)	0.04776	0.06283	0.06069	0.06020	0.06090	0.05141	0.05119	0.05643	10.755
(4)	0.05098	0.07225	0.07089	0.06844	0.06847	0.06296	0.06388	0.06541	11.021
(5)	0.04955	0.06896	0.06748	0.06372	0.06603	0.05846	0.05934	0.06194	10.880

ARI Labs, Inc.

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Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
39 2,4-DDE	+++++	1.14103	1.08072	1.09005	1.06169	0.88466	0.89319	1.02522	10.614
40 2,4-DDD	+++++	1.08881	1.01841	0.99599	0.98400	0.85150	0.85318	0.96531	9.816
41 2,4-DDT	+++++	0.97799	0.97179	0.97332	0.98841	0.88743	0.88215	0.94685	5.117
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Oxychlordane	+++++	1.32927	1.24890	1.22496	1.20236	1.04785	1.05015	1.18392	9.540
44 trans-Nonachlor	+++++	1.68629	1.57989	1.58456	1.55669	1.34437	1.36253	1.51906	8.949
45 cis-Nonachlor	+++++	1.62941	1.55213	1.53413	1.52347	1.34758	1.35527	1.49033	7.639
46 Mirex	+++++	1.20478	1.11168	1.05006	1.00932	0.85381	0.85786	1.01459	13.749
47 bis-(2-ethylhexyl) Phthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Chlordane (NOS)(1)	0.06029	0.05735	0.05369	0.05005	0.04581	0.04808	0.04531	0.05151	11.230
(2)	0.15038	0.14213	0.13501	0.13074	0.12020	0.12674	0.12030	0.13221	8.482

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(3)	0.17221	0.15459	0.13623	0.13893	0.12753	0.13518	0.13160	0.14232	11.024
49 Trifluralin	*****	*****	*****	*****	*****	*****	*****	*****	*****
50 Dacthal	*****	*****	*****	*****	*****	*****	*****	*****	*****
51 Oxadiazon	*****	*****	*****	*****	*****	*****	*****	*****	*****
52 Kelthane	*****	*****	*****	*****	*****	*****	*****	*****	*****
53 Chlorpyrifos	*****	*****	*****	*****	*****	*****	*****	*****	*****
54 Methyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
55 Ethyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
56 Kepone	*****	*****	*****	*****	*****	*****	*****	*****	*****
57 1-Chloropyrene	*****	*****	*****	*****	*****	*****	*****	*****	*****
$ 4 Tetrachloro-m-xylene	*****	1.10401	1.05839	1.02629	0.99588	0.93352	0.85040	0.99475	9.166

ARI Labs, Inc.

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Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	___ RRF	% RSD
	80.000 Level 7							
$ 28 Decachlorobiphenyl	+++++	0.99444	0.96249	0.90111	0.87014	0.79161		
	0.75653						0.87939	10.607

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121405	22121406	22121407	22121408	22121409	22121410	22121411
INJ.DATE:	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022
INJ.TIME:	20:38	20:56	21:14	21:31	21:49	22:07	22:25

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Hexachlorobutadiene	2.323	2.323	2.324	2.323	2.324	2.324	2.324	2.324	2.294-2.354	2.323	0.000
* 2 1Bromo-2nitrobenzene	3.151	3.151	3.152	3.151	3.151	3.151	3.151	3.151	3.121-3.181	3.151	0.000
* 3 Hexabromobiphenyl	9.504	9.503	9.504	9.505	9.505	9.504	9.504	9.505	9.475-9.535	9.504	0.001
$ 4 Tetrachloro-m-xylene	3.828	3.828	3.828	3.828	3.828	3.828	3.828	3.828	3.798-3.858	3.828	0.000
5 Hexachlorobenzene	4.182	4.182	4.183	4.183	4.182	4.183	4.182	4.182	4.152-4.212	4.183	0.000
6 alpha-BHC	4.342	4.342	4.343	4.343	4.342	4.342	4.342	4.342	4.312-4.372	4.342	0.000
7 gamma-BHC (Lindane)	4.645	4.645	4.646	4.646	4.645	4.646	4.645	4.645	4.615-4.675	4.645	0.000
8 beta-BHC	4.726	4.726	4.727	4.726	4.726	4.726	4.726	4.726	4.696-4.756	4.726	0.000
9 delta-BHC	4.909	4.909	4.910	4.910	4.909	4.910	4.910	4.909	4.879-4.939	4.910	0.000
10 Heptachlor	5.130	5.129	5.130	5.130	5.130	5.130	5.130	5.130	5.100-5.160	5.130	0.000
11 Aldrin	5.453	5.453	5.455	5.454	5.454	5.454	5.454	5.454	5.424-5.484	5.454	0.000
12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
14 Heptachlor epoxide b	6.130	6.130	6.132	6.131	6.130	6.130	6.130	6.130	6.100-6.160	6.131	0.001
15 cis-Chlordane	6.417	6.417	6.417	6.418	6.417	6.417	6.417	6.417	6.387-6.447	6.417	0.000
16 trans-Chlordane	6.270	6.271	6.271	6.271	6.271	6.271	6.271	6.271	6.241-6.301	6.271	0.000
17 Endosulfan I	6.572	6.572	6.573	6.573	6.572	6.572	6.573	6.572	6.542-6.602	6.573	0.000

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	6.489	6.489	6.490	6.490	6.489	6.489	6.490	6.489	6.459-6.519	6.489	0.000
	19 Dieldrin	6.831	6.832	6.832	6.832	6.831	6.832	6.832	6.831	6.801-6.861	6.832	0.000
	20 Endrin	7.081	7.081	7.082	7.082	7.081	7.082	7.082	7.081	7.051-7.111	7.082	0.000
	21 4,4'-DDD	7.135	7.136	7.136	7.136	7.135	7.136	7.135	7.135	7.105-7.165	7.136	0.000
	22 Endosulfan II	7.318	7.317	7.318	7.318	7.317	7.317	7.317	7.317	7.287-7.347	7.317	0.000
	23 4,4'-DDT	7.427	7.427	7.428	7.428	7.427	7.427	7.428	7.427	7.397-7.457	7.428	0.000
	24 Endrin aldehyde	7.746	7.746	7.746	7.746	7.746	7.746	7.746	7.746	7.716-7.776	7.746	0.000
	25 Methoxychlor	7.912	7.912	7.913	7.912	7.912	7.912	7.912	7.912	7.882-7.942	7.912	0.000
	26 Endosulfan sulfate	8.180	8.179	8.180	8.180	8.180	8.179	8.180	8.180	8.150-8.210	8.180	0.000
	27 Endrin ketone	8.453	8.452	8.454	8.453	8.453	8.453	8.454	8.453	8.423-8.483	8.453	0.001
$	28 Decachlorobiphenyl	9.355	9.354	9.355	9.355	9.355	9.355	9.356	9.355	9.325-9.385	9.355	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.931	6.901-6.961	+++++	+++++
	39 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.106	6.076-6.136	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.681	6.651-6.711	+++++	+++++
41 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.957	6.927-6.987	+++++	+++++
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.014	5.984-6.044	+++++	+++++
44 trans-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.397	6.367-6.427	+++++	+++++
45 cis-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.112	7.082-7.142	+++++	+++++
46 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.082	8.052-8.112	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.593	5.563-5.623	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121405	22121406	22121407	22121408	22121409	22121410	22121411
INJ.DATE:	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022
INJ.TIME:	20:38	20:56	21:14	21:31	21:49	22:07	22:25

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Hexachlorobutadiene [C	2.500	2.500	2.500	2.500	2.500	2.500	2.501	2.501	2.471-2.531	2.500	0.000
* 2 1Bromo-2nitrobenzene [	3.350	3.350	3.351	3.351	3.350	3.351	3.351	3.351	3.321-3.381	3.351	0.000
* 3 Hexabromobiphenyl[C]	11.054	11.053	11.054	11.054	11.053	11.053	11.054	11.054	11.024-11.084	11.054	0.000
$ 4 Tetrachloro-m-xylene [	4.220	4.220	4.220	4.220	4.220	4.221	4.220	4.220	4.190-4.250	4.220	0.000
5 Hexachlorobenzene [C]	4.718	4.718	4.718	4.718	4.718	4.718	4.718	4.718	4.688-4.748	4.718	0.000
6 alpha-BHC [C]	4.860	4.859	4.860	4.860	4.860	4.860	4.861	4.861	4.831-4.891	4.860	0.000
7 gamma-BHC (Lindane) [C	5.257	5.257	5.258	5.258	5.258	5.258	5.258	5.258	5.228-5.288	5.258	0.000
8 beta-BHC [C]	5.337	5.337	5.338	5.337	5.337	5.337	5.337	5.337	5.307-5.367	5.337	0.000
9 delta-BHC [C]	5.690	5.691	5.691	5.691	5.690	5.691	5.691	5.691	5.661-5.721	5.691	0.000
10 Heptachlor [C]	5.786	5.787	5.787	5.787	5.787	5.787	5.787	5.787	5.757-5.817	5.787	0.000
11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
12 Aldrin [C]	6.190	6.190	6.191	6.191	6.191	6.190	6.191	6.191	6.161-6.221	6.191	0.000
13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
14 Heptachlor epoxide b [	6.845	6.845	6.845	6.846	6.845	6.846	6.845	6.845	6.815-6.875	6.845	0.000
15 cis-Chlordane [C]	7.215	7.215	7.216	7.216	7.216	7.215	7.216	7.216	7.186-7.246	7.215	0.000
16 trans-Chlordane [C]	7.056	7.055	7.056	7.056	7.056	7.056	7.056	7.056	7.026-7.086	7.056	0.000
17 Endosulfan I [C]	7.288	7.288	7.289	7.289	7.289	7.288	7.289	7.289	7.259-7.319	7.288	0.000

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	7.370	7.370	7.371	7.371	7.370	7.371	7.371	7.371	7.341-7.401	7.371	0.000
	19 Dieldrin [C]	7.582	7.582	7.583	7.583	7.582	7.582	7.583	7.583	7.553-7.613	7.582	0.000
	20 Endrin [C]	7.906	7.906	7.906	7.907	7.907	7.907	7.907	7.907	7.877-7.937	7.907	0.000
	21 4,4'-DDD [C]	7.976	7.976	7.976	7.977	7.976	7.976	7.976	7.976	7.946-8.006	7.976	0.000
	22 Endosulfan II [C]	8.117	8.116	8.117	8.117	8.117	8.117	8.117	8.117	8.087-8.147	8.117	0.000
	23 4,4'-DDT [C]	8.294	8.294	8.294	8.295	8.295	8.295	8.295	8.295	8.265-8.325	8.295	0.000
	24 Endrin aldehyde [C]	8.448	8.447	8.448	8.448	8.448	8.448	8.448	8.448	8.418-8.478	8.448	0.000
	25 Endosulfan sulfate [C]	8.715	8.714	8.715	8.715	8.715	8.715	8.715	8.715	8.685-8.745	8.715	0.000
	26 Methoxychlor [C]	8.935	8.934	8.935	8.936	8.935	8.935	8.936	8.936	8.906-8.966	8.935	0.001
	27 Endrin ketone [C]	9.239	9.239	9.239	9.240	9.239	9.239	9.240	9.240	9.210-9.270	9.239	0.000
$	28 Decachlorobiphenyl [C]	10.466	10.465	10.466	10.466	10.466	10.466	10.467	10.467	10.437-10.497	10.466	0.001
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.126	7.096-7.156	+++++	+++++
	39 2,4-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.036	7.006-7.066	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.591	7.561-7.621	+++++	+++++
41 2,4-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.913	7.883-7.943	+++++	+++++
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.741	6.711-6.771	+++++	+++++
44 trans-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.155	7.125-7.185	+++++	+++++
45 cis-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.975	7.945-8.005	+++++	+++++
46 Mirex [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.223	9.193-9.253	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.612	5.582-5.642	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121412	22121413	22121414	22121415	22121416	22121417	22121418
INJ.DATE:	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	22:43	23:01	23:19	23:36	23:54	00:12	00:30

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.324	2.294-2.354	+++++	+++++
*	2 1Bromo-2nitrobenzene	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.121-3.181	3.151	0.000
*	3 Hexabromobiphenyl	9.504	9.504	9.504	9.504	9.504	9.504	9.504	9.505	9.475-9.535	9.504	0.000
$	4 Tetrachloro-m-xylene	+++++	+++++	+++++	+++++	3.800	3.800	3.800	3.828	3.798-3.858	3.800	0.000
	5 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.182	4.152-4.212	+++++	+++++
	6 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.342	4.312-4.372	+++++	+++++
	7 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.645	4.615-4.675	+++++	+++++
	8 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.726	4.696-4.756	+++++	+++++
	9 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.909	4.879-4.939	+++++	+++++
	10 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.130	5.100-5.160	+++++	+++++
	11 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.454	5.424-5.484	+++++	+++++
	12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
	14 Heptachlor epoxide b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.130	6.100-6.160	+++++	+++++
	15 cis-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.417	6.387-6.447	+++++	+++++
	16 trans-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.271	6.241-6.301	+++++	+++++
	17 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.572	6.542-6.602	+++++	+++++

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.489	6.459-6.519	+++++	+++++
	19 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.831	6.801-6.861	+++++	+++++
	20 Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.081	7.051-7.111	+++++	+++++
	21 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.135	7.105-7.165	+++++	+++++
	22 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.317	7.287-7.347	+++++	+++++
	23 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.427	7.397-7.457	+++++	+++++
	24 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.746	7.716-7.776	+++++	+++++
	25 Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.912	7.882-7.942	+++++	+++++
	26 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.180	8.150-8.210	+++++	+++++
	27 Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.453	8.423-8.483	+++++	+++++
$	28 Decachlorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.355	9.325-9.385	+++++	+++++
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.931	6.901-6.961	+++++	+++++
	39 2,4-DDE	6.106	6.106	6.106	6.106	6.106	6.106	6.106	6.106	6.076-6.136	6.106	0.000

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	6.681	6.681	6.681	6.681	6.681	6.681	6.680	6.681	6.651-6.711	6.681	0.000
41 2,4-DDT	6.956	6.957	6.956	6.956	6.957	6.956	6.956	6.957	6.927-6.987	6.956	0.000
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	6.014	6.015	6.014	6.015	6.014	6.014	6.014	6.014	5.984-6.044	6.015	0.000
44 trans-Nonachlor	6.397	6.398	6.398	6.398	6.397	6.397	6.397	6.397	6.367-6.427	6.398	0.000
45 cis-Nonachlor	7.112	7.112	7.111	7.112	7.112	7.112	7.112	7.112	7.082-7.142	7.112	0.000
46 Mirex	8.082	8.082	8.082	8.082	8.082	8.082	8.082	8.082	8.052-8.112	8.082	0.000
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.593	5.563-5.623	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121412	22121413	22121414	22121415	22121416	22121417	22121418
INJ.DATE:	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	22:43	23:01	23:19	23:36	23:54	00:12	00:30

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.501	2.471-2.531	+++++	+++++
*	2 1Bromo-2nitrobenzene [	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.321-3.381	3.351	0.000
*	3 Hexabromobiphenyl[C]	11.054	11.054	11.054	11.054	11.054	11.054	11.054	11.054	11.024-11.084	11.054	0.000
$	4 Tetrachloro-m-xylene [	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.220	4.190-4.250	+++++	+++++
	5 Hexachlorobenzene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.718	4.688-4.748	+++++	+++++
	6 alpha-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.861	4.831-4.891	+++++	+++++
	7 gamma-BHC (Lindane) [C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.258	5.228-5.288	+++++	+++++
	8 beta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.337	5.307-5.367	+++++	+++++
	9 delta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.691	5.661-5.721	+++++	+++++
	10 Heptachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.787	5.757-5.817	+++++	+++++
	11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
	12 Aldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.191	6.161-6.221	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
	14 Heptachlor epoxide b [	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.845	6.815-6.875	+++++	+++++
	15 cis-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.216	7.186-7.246	+++++	+++++
	16 trans-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.056	7.026-7.086	+++++	+++++
	17 Endosulfan I [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.289	7.259-7.319	+++++	+++++

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.371	7.341-7.401	+++++	+++++
	19 Dieldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.583	7.553-7.613	+++++	+++++
	20 Endrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.907	7.877-7.937	+++++	+++++
	21 4,4'-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.976	7.946-8.006	+++++	+++++
	22 Endosulfan II [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.117	8.087-8.147	+++++	+++++
	23 4,4'-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.295	8.265-8.325	+++++	+++++
	24 Endrin aldehyde [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.448	8.418-8.478	+++++	+++++
	25 Endosulfan sulfate [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.715	8.685-8.745	+++++	+++++
	26 Methoxychlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.936	8.906-8.966	+++++	+++++
	27 Endrin ketone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.240	9.210-9.270	+++++	+++++
$	28 Decachlorobiphenyl [C]	+++++	+++++	+++++	+++++	+++++	+++++	10.471	10.467	10.437-10.497	10.471	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.126	7.096-7.156	+++++	+++++
	39 2,4-DDE [C]	7.036	7.036	7.035	7.036	7.036	7.036	7.036	7.036	7.006-7.066	7.036	0.000

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	7.591	7.590	7.590	7.591	7.590	7.591	7.591	7.591	7.561-7.621	7.591	0.000
41 2,4-DDT [C]	7.913	7.914	7.913	7.913	7.913	7.914	7.913	7.913	7.883-7.943	7.913	0.000
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	6.741	6.741	6.741	6.741	6.741	6.741	6.741	6.741	6.711-6.771	6.741	0.000
44 trans-Nonachlor [C]	7.154	7.154	7.154	7.155	7.154	7.155	7.155	7.155	7.125-7.185	7.154	0.000
45 cis-Nonachlor [C]	7.975	7.975	7.975	7.975	7.975	7.975	7.975	7.975	7.945-8.005	7.975	0.000
46 Mirex [C]	9.223	9.223	9.222	9.223	9.222	9.223	9.223	9.223	9.193-9.253	9.223	0.000
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.612	5.582-5.642	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121421	22121422	22121423	22121424	22121425	22121426	22121427
INJ.DATE:	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	01:24	01:42	01:59	02:17	02:35	02:53	03:11

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.324	2.294-2.354	+++++	+++++
*	2 1Bromo-2nitrobenzene	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.121-3.181	3.151	0.000
*	3 Hexabromobiphenyl	9.504	9.504	9.505	9.504	9.504	9.504	9.505	9.505	9.475-9.535	9.504	0.000
$	4 Tetrachloro-m-xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.828	3.798-3.858	+++++	+++++
	5 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.182	4.152-4.212	+++++	+++++
	6 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.342	4.312-4.372	+++++	+++++
	7 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.645	4.615-4.675	+++++	+++++
	8 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.726	4.696-4.756	+++++	+++++
	9 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.909	4.879-4.939	+++++	+++++
	10 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.130	5.100-5.160	+++++	+++++
	11 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.454	5.424-5.484	+++++	+++++
	12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
	14 Heptachlor epoxide b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.130	6.100-6.160	+++++	+++++
	15 cis-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.417	6.387-6.447	+++++	+++++
	16 trans-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.271	6.241-6.301	+++++	+++++
	17 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.572	6.542-6.602	+++++	+++++

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.489	6.459-6.519	+++++	+++++
	19 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.831	6.801-6.861	+++++	+++++
	20 Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.081	7.051-7.111	+++++	+++++
	21 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.135	7.105-7.165	+++++	+++++
	22 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.317	7.287-7.347	+++++	+++++
	23 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.427	7.397-7.457	+++++	+++++
	24 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.746	7.716-7.776	+++++	+++++
	25 Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.912	7.882-7.942	+++++	+++++
	26 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.180	8.150-8.210	+++++	+++++
	27 Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.453	8.423-8.483	+++++	+++++
$	28 Decachlorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	9.380	9.355	9.325-9.385	9.380	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.931	6.901-6.961	+++++	+++++
	39 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.106	6.076-6.136	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.681	6.651-6.711	+++++	+++++
41 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.957	6.927-6.987	+++++	+++++
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.014	5.984-6.044	+++++	+++++
44 trans-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.397	6.367-6.427	+++++	+++++
45 cis-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.112	7.082-7.142	+++++	+++++
46 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.082	8.052-8.112	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	5.593	5.593	5.593	5.593	5.593	5.592	5.593	5.593	5.563-5.623	5.593	0.000
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121421	22121422	22121423	22121424	22121425	22121426	22121427
INJ.DATE:	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	01:24	01:42	01:59	02:17	02:35	02:53	03:11

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.501	2.471-2.531	+++++	+++++
*	2 1Bromo-2nitrobenzene [	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.321-3.381	3.351	0.000
*	3 Hexabromobiphenyl[C]	11.054	11.055	11.054	11.054	11.054	11.054	11.054	11.054	11.024-11.084	11.054	0.000
$	4 Tetrachloro-m-xylene [	4.215	+++++	+++++	+++++	+++++	+++++	+++++	4.220	4.190-4.250	4.215	0.000
	5 Hexachlorobenzene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.718	4.688-4.748	+++++	+++++
	6 alpha-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.861	4.831-4.891	+++++	+++++
	7 gamma-BHC (Lindane) [C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.258	5.228-5.288	+++++	+++++
	8 beta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.337	5.307-5.367	+++++	+++++
	9 delta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.691	5.661-5.721	+++++	+++++
	10 Heptachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.787	5.757-5.817	+++++	+++++
	11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
	12 Aldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.191	6.161-6.221	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
	14 Heptachlor epoxide b [	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.845	6.815-6.875	+++++	+++++
	15 cis-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.216	7.186-7.246	+++++	+++++
	16 trans-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.056	7.026-7.086	+++++	+++++
	17 Endosulfan I [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.289	7.259-7.319	+++++	+++++

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.371	7.341-7.401	+++++	+++++
	19 Dieldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.583	7.553-7.613	+++++	+++++
	20 Endrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.907	7.877-7.937	+++++	+++++
	21 4,4'-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.976	7.946-8.006	+++++	+++++
	22 Endosulfan II [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.117	8.087-8.147	+++++	+++++
	23 4,4'-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.295	8.265-8.325	+++++	+++++
	24 Endrin aldehyde [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.448	8.418-8.478	+++++	+++++
	25 Endosulfan sulfate [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.715	8.685-8.745	+++++	+++++
	26 Methoxychlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.936	8.906-8.966	+++++	+++++
	27 Endrin ketone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.240	9.210-9.270	+++++	+++++
$	28 Decachlorobiphenyl [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.467	10.437-10.497	+++++	+++++
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.126	7.096-7.156	+++++	+++++
	39 2,4-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.036	7.006-7.066	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.591	7.561-7.621	+++++	+++++
41 2,4-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.913	7.883-7.943	+++++	+++++
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.741	6.711-6.771	+++++	+++++
44 trans-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.155	7.125-7.185	+++++	+++++
45 cis-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.975	7.945-8.005	+++++	+++++
46 Mirex [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.223	9.193-9.253	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	5.612	5.612	5.612	5.611	5.612	5.612	5.612	5.612	5.582-5.642	5.612	0.000
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121428	22121429	22121430	22121431	22121432	22121433	22121434
INJ.DATE:	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	03:29	03:46	04:04	04:22	04:40	04:58	05:16

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.324	2.294-2.354	+++++	+++++
*	2 1Bromo-2nitrobenzene	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.121-3.181	3.151	0.000
*	3 Hexabromobiphenyl	9.505	9.504	9.504	9.504	9.505	9.504	9.504	9.505	9.475-9.535	9.504	0.000
$	4 Tetrachloro-m-xylene	3.828	3.828	3.828	3.828	3.828	3.828	3.828	3.828	3.798-3.858	3.828	0.000
	5 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.182	4.152-4.212	+++++	+++++
	6 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.342	4.312-4.372	+++++	+++++
	7 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.645	4.615-4.675	+++++	+++++
	8 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.726	4.696-4.756	+++++	+++++
	9 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.909	4.879-4.939	+++++	+++++
	10 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.130	5.100-5.160	+++++	+++++
	11 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.454	5.424-5.484	+++++	+++++
	12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
	14 Heptachlor epoxide b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.130	6.100-6.160	+++++	+++++
	15 cis-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.417	6.387-6.447	+++++	+++++
	16 trans-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.271	6.241-6.301	+++++	+++++
	17 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.572	6.542-6.602	+++++	+++++

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.489	6.459-6.519	+++++	+++++
	19 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.831	6.801-6.861	+++++	+++++
	20 Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.081	7.051-7.111	+++++	+++++
	21 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.135	7.105-7.165	+++++	+++++
	22 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.317	7.287-7.347	+++++	+++++
	23 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.427	7.397-7.457	+++++	+++++
	24 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.746	7.716-7.776	+++++	+++++
	25 Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.912	7.882-7.942	+++++	+++++
	26 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.180	8.150-8.210	+++++	+++++
	27 Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.453	8.423-8.483	+++++	+++++
$	28 Decachlorobiphenyl	9.355	9.355	9.355	9.355	9.356	9.356	9.355	9.355	9.325-9.385	9.356	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	6.931	6.931	6.931	6.931	6.931	6.931	6.931	6.931	6.901-6.961	6.931	0.000
	39 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.106	6.076-6.136	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.681	6.651-6.711	+++++	+++++
41 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.957	6.927-6.987	+++++	+++++
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.014	5.984-6.044	+++++	+++++
44 trans-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.397	6.367-6.427	+++++	+++++
45 cis-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.112	7.082-7.142	+++++	+++++
46 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.082	8.052-8.112	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.593	5.563-5.623	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121428	22121429	22121430	22121431	22121432	22121433	22121434
INJ.DATE:	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	03:29	03:46	04:04	04:22	04:40	04:58	05:16

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.501	2.471-2.531	+++++	+++++
*	2 1Bromo-2nitrobenzene [	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.321-3.381	3.351	0.000
*	3 Hexabromobiphenyl[C]	11.055	11.054	11.054	11.055	11.054	11.054	11.054	11.054	11.024-11.084	11.054	0.000
$	4 Tetrachloro-m-xylene [	4.221	4.220	4.220	4.221	4.221	4.221	4.221	4.220	4.190-4.250	4.221	0.000
	5 Hexachlorobenzene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.718	4.688-4.748	+++++	+++++
	6 alpha-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.861	4.831-4.891	+++++	+++++
	7 gamma-BHC (Lindane) [C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.258	5.228-5.288	+++++	+++++
	8 beta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.337	5.307-5.367	+++++	+++++
	9 delta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.691	5.661-5.721	+++++	+++++
	10 Heptachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.787	5.757-5.817	+++++	+++++
	11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
	12 Aldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.191	6.161-6.221	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
	14 Heptachlor epoxide b [	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.845	6.815-6.875	+++++	+++++
	15 cis-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.216	7.186-7.246	+++++	+++++
	16 trans-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.056	7.026-7.086	+++++	+++++
	17 Endosulfan I [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.289	7.259-7.319	+++++	+++++

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.371	7.341-7.401	+++++	+++++
	19 Dieldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.583	7.553-7.613	+++++	+++++
	20 Endrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.907	7.877-7.937	+++++	+++++
	21 4,4'-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.976	7.946-8.006	+++++	+++++
	22 Endosulfan II [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.117	8.087-8.147	+++++	+++++
	23 4,4'-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.295	8.265-8.325	+++++	+++++
	24 Endrin aldehyde [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.448	8.418-8.478	+++++	+++++
	25 Endosulfan sulfate [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.715	8.685-8.745	+++++	+++++
	26 Methoxychlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.936	8.906-8.966	+++++	+++++
	27 Endrin ketone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.240	9.210-9.270	+++++	+++++
$	28 Decachlorobiphenyl [C]	10.467	10.467	10.467	10.466	10.466	10.466	10.467	10.467	10.437-10.497	10.466	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	7.125	7.125	7.125	7.125	7.126	7.126	7.126	7.126	7.096-7.156	7.125	0.000
	39 2,4-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.036	7.006-7.066	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.591	7.561-7.621	+++++	+++++
41 2,4-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.913	7.883-7.943	+++++	+++++
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.741	6.711-6.771	+++++	+++++
44 trans-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.155	7.125-7.185	+++++	+++++
45 cis-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.975	7.945-8.005	+++++	+++++
46 Mirex [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.223	9.193-9.253	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.612	5.582-5.642	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121403.D
Data file 2: /20221214.b/B20221214.b/22121403.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-IBL1
Client ID:
Injection Date: 14-DEC-2022 20:02
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			6.824	-0.021	2291	0.00	0.14	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			7.597	0.015	1696	0.00	0.11	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			8.135	0.018	285	0.00	0.02	---	Endosulfan II
----			7.975	-0.002	1369	0.00	0.12	---	4,4'-DDD
----			8.720	0.005	243	0.00	0.02	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			8.924	-0.013	546	0.00	0.11	---	Methoxychlor
8.444	-0.009	1962	9.226	-0.013	2888	0.23	0.25	10.1	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			7.070	0.014	4708	0.00	0.30	---	trans-Chlordane
----			7.219	0.003	810	0.00	0.05	---	cis-Chlordane
2.351	0.028	6378	2.512	0.012	33421	0.42	1.60	116.6*	Hexachlorobutadiene
4.183	0.001	4869	4.721	0.003	421	0.36	0.02	178.1*	Hexachlorobenzene
3.828	0.000	375293	4.220	-0.000	579767	36.70	37.46	2.1	Tetrachloro-m-xylene
9.356	0.001	243291	10.467	0.000	323668	35.86	35.40	1.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

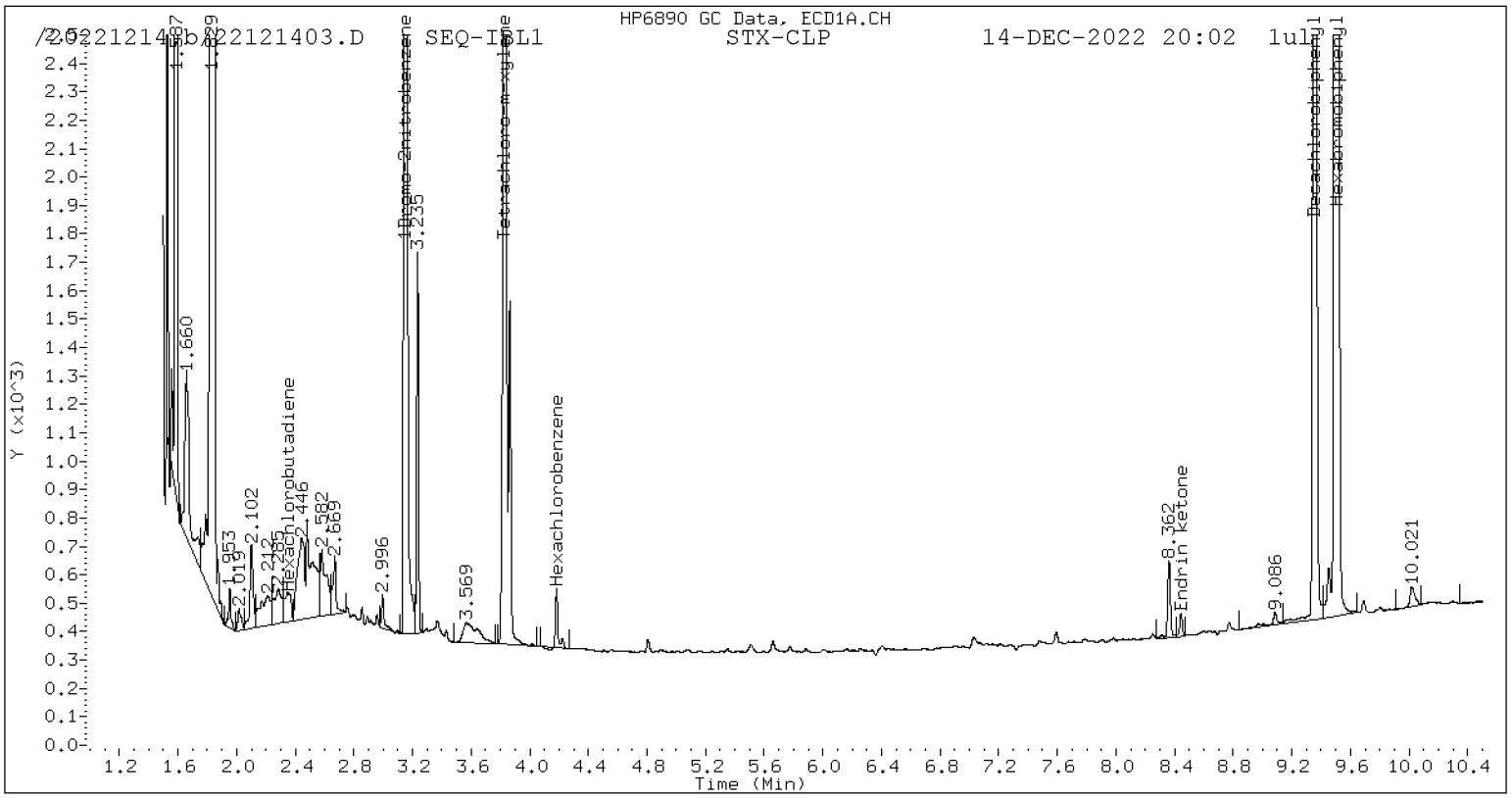
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	751998	5.8
Hexabromobiphenyl	641833	669495	4.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1099555	3.8
Hexabromobiphenyl	797125	827325	3.8

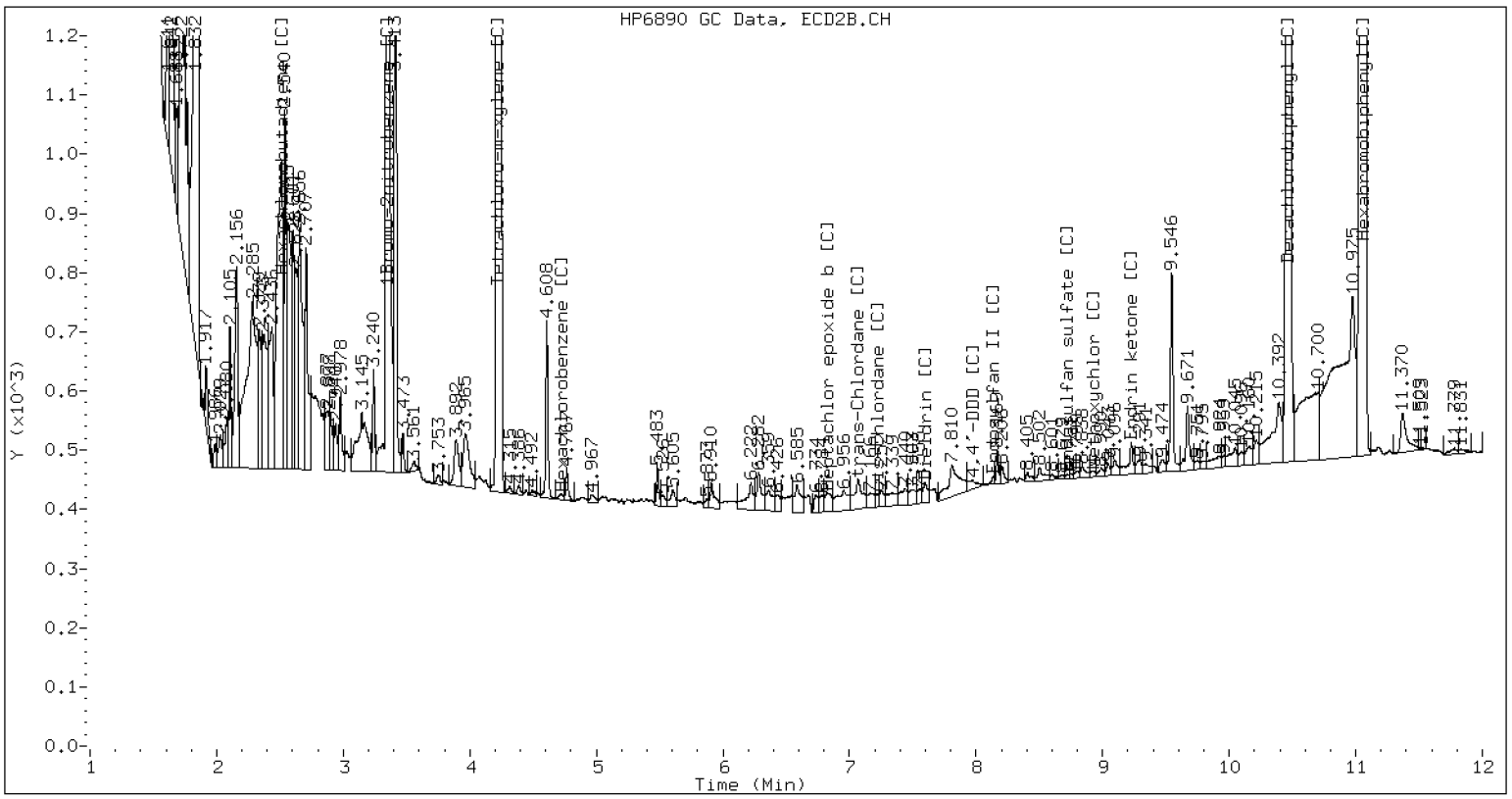
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121403.D SEQ-IBL1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121403.D
Data file 2: /20221214.b/B20221214.b/22121403.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-IBL1
Client ID:
Injection Date: 14-DEC-2022 20:02
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D

Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.151	683485
4,4'-DDE	6.490	6258
Endrin	7.082	745471
4,4'-DDD	7.136	15566
4,4'-DDT	7.428	629664
Endrin ketone	8.453	19276
Endrin aldehyde	7.747	21328
Hexabromobiphenyl	9.504	619012
Tetrachloro-m-xylene	3.828	1161664
Decachlorobiphenyl	9.355	833312

DDT Percent Breakdown = 3.3 %
((6258+15566) * 100)/(6258+15566+629664)

Endrin Percent Breakdown = 5.2 %
((21328+19276) * 100)/(21328+19276+745471)

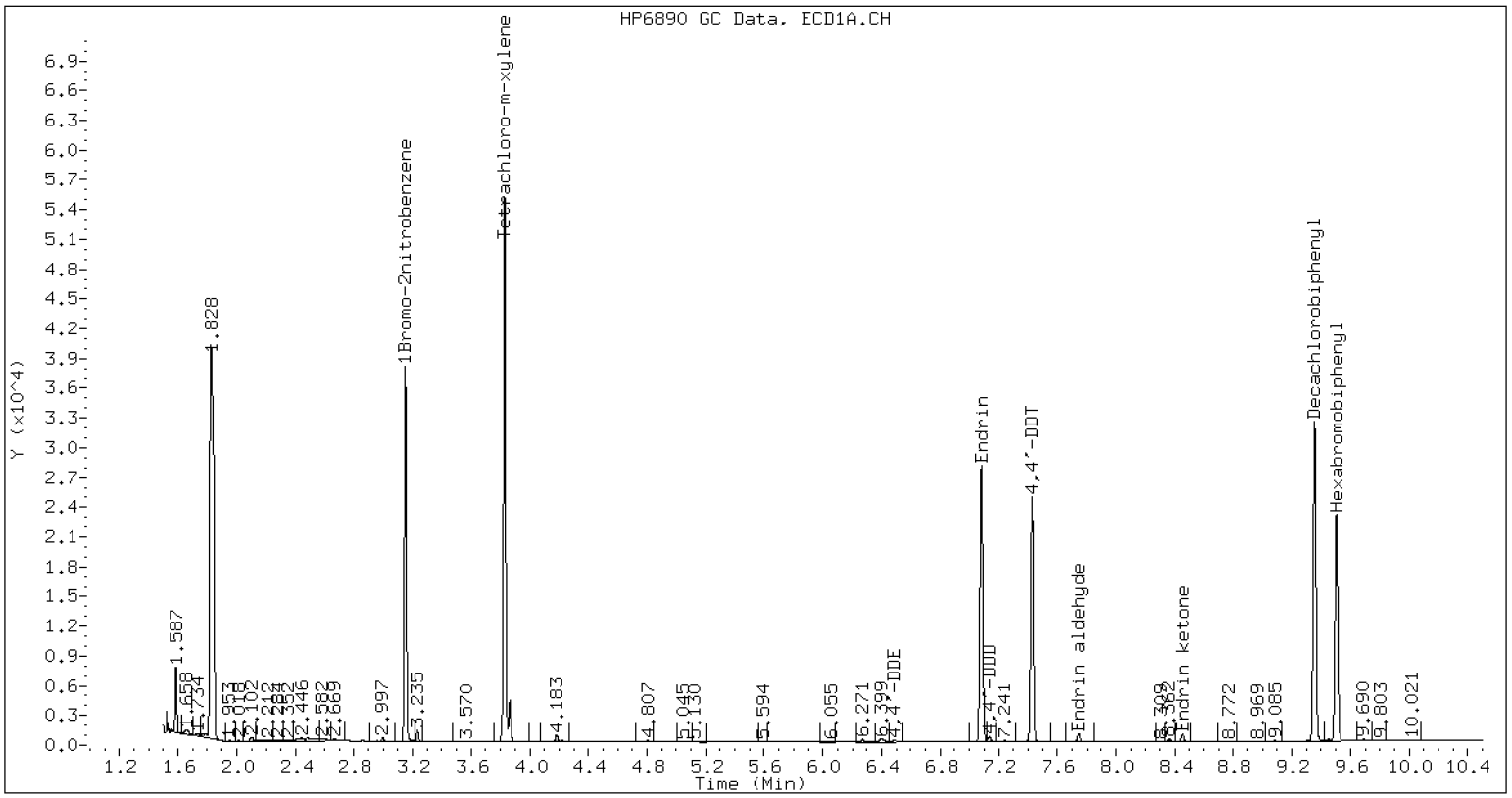
GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.350	1005375
4,4'-DDE [C]	7.370	11906
Endrin [C]	7.907	1029194
4,4'-DDD [C]	7.977	32697
4,4'-DDT [C]	8.295	890195
Endrin ketone [C]	9.239	28268
Endrin aldehyde [C]	8.448	31426
Hexabromobiphenyl[C]	11.054	772586
Tetrachloro-m-xylene [C]	4.220	1890294
Decachlorobiphenyl [C]	10.467	1140978

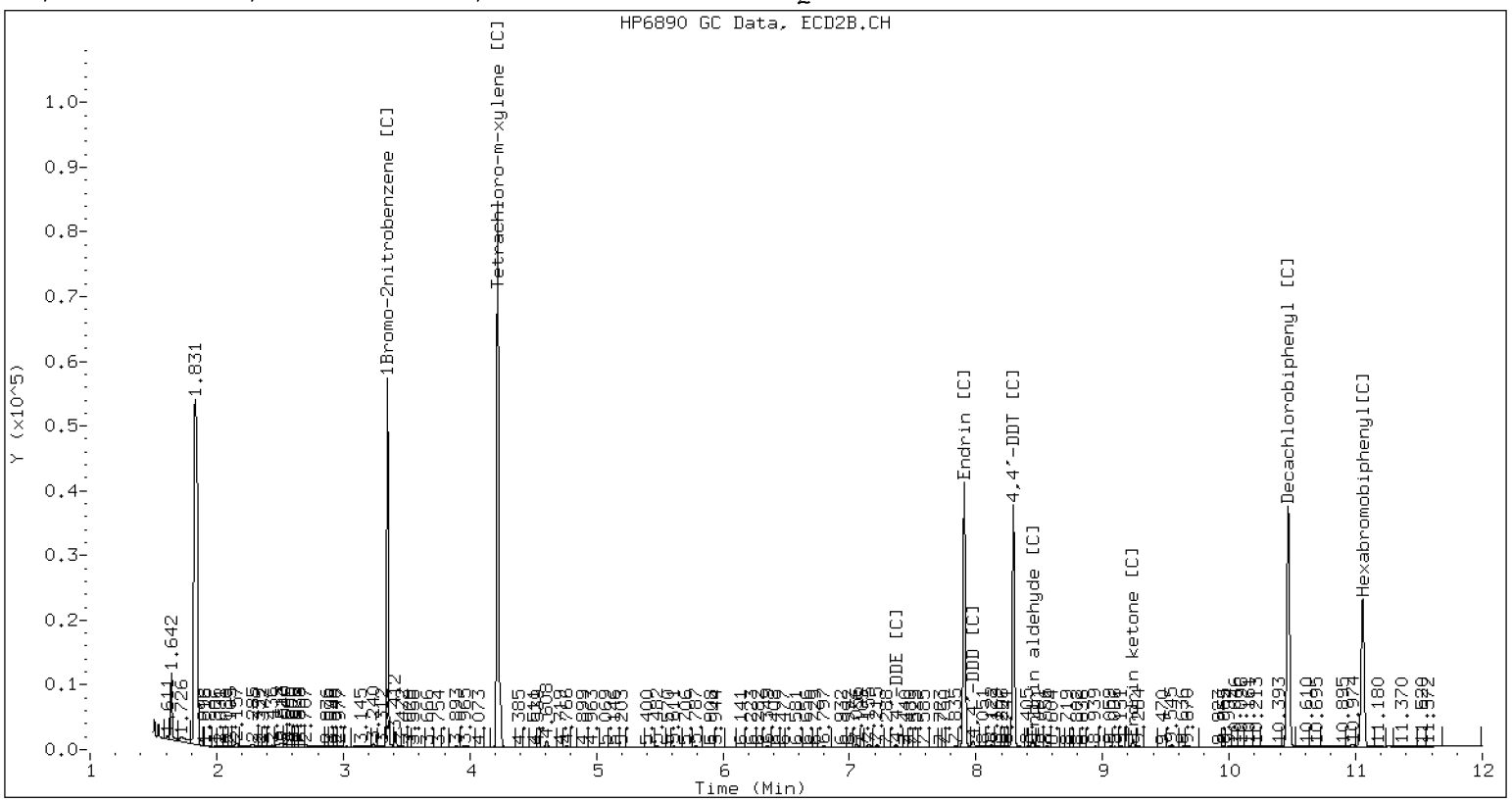
DDT Percent Breakdown = 4.8 %
((11906+32697) * 100)/(11906+32697+890195)

Endrin Percent Breakdown = 5.5 %
((31426+28268) * 100)/(31426+28268+1029194)

/20221214.b/22121404.D SEQ-PEM1 STX-CLP 14-DEC-2022 20:20 1ul



/20221214.b/B20221214.b/22121404.D SEQ-PEM1 CLP2 14-DEC-2022



7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D

Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.151	683485
4,4'-DDE	6.490	6258
Endrin	7.082	745471
4,4'-DDD	7.136	15566
4,4'-DDT	7.428	629664
Endrin ketone	8.453	19276
Endrin aldehyde	7.747	21328
Hexabromobiphenyl	9.504	619012
Tetrachloro-m-xylene	3.828	1161664
Decachlorobiphenyl	9.355	833312

DDT Percent Breakdown = 3.3 %
((6258+15566) * 100)/(6258+15566+629664)

Endrin Percent Breakdown = 5.2 %
((21328+19276) * 100)/(21328+19276+745471)

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312

Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121405.D
Data file 2: /20221214.b/B20221214.b/22121405.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1
Client ID:
Injection Date: 14-DEC-2022 20:38
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	-0.000	17720	4.860	-0.001	25579	1.30	1.22	6.4	alpha-BHC
4.726	-0.000	7513	5.337	-0.000	10927	1.43	1.37	4.4	beta-BHC
4.909	-0.000	14050	5.690	-0.000	21188	1.26	1.23	2.8	delta-BHC
4.645	-0.000	15329	5.257	-0.001	21981	1.30	1.24	4.9	gamma-BHC (Lindane)
5.130	-0.000	14540	5.786	-0.000	20395	1.38	1.27	8.9	Heptachlor
5.453	-0.001	15026	6.190	-0.001	24413	1.28	1.33	3.9	Aldrin
6.130	0.000	13937	6.845	-0.000	21959	1.37	1.44	5.6	Heptachlor epoxide b
6.572	-0.000	13220	7.288	-0.000	19257	1.41	1.44	1.8	Endosulfan I
6.831	0.000	27285	7.582	-0.001	43580	2.71	2.94	8.2	Dieldrin
6.489	0.000	25951	7.370	-0.001	37722	2.78	2.78	0.0	4,4'-DDE
7.081	0.000	24429	7.906	-0.001	31381	2.94	2.78	5.3	Endrin
7.318	0.001	19827	8.117	-0.000	30675	2.65	2.66	0.3	Endosulfan II
7.135	0.000	20434	7.976	-0.000	28995	2.73	2.65	3.0	4,4'-DDD
8.180	-0.000	19661	8.715	-0.000	26689	2.76	2.63	4.9	Endosulfan sulfate
7.427	0.000	20071	8.294	-0.001	26950	2.65	2.55	3.9	4,4'-DDT
7.912	-0.000	52385	8.935	-0.001	65896	15.60	14.07	10.3	Methoxychlor
8.453	-0.001	24276	9.239	-0.000	30129	2.98	2.75	8.0	Endrin ketone
7.746	-0.000	17209	8.448	-0.000	21218	2.88	2.60	10.1	Endrin aldehyde
6.270	-0.001	14829	7.056	-0.000	22517	1.43	1.48	3.7	trans-Chlordane
6.417	0.000	15767	7.215	-0.000	22150	1.52	1.49	1.6	cis-Chlordane
2.323	-0.001	27320	2.500	-0.001	42655	1.92	2.14	11.3	Hexachlorobutadiene
4.182	0.000	18555	4.718	-0.000	27377	1.47	1.44	2.2	Hexachlorobenzene
3.828	-0.000	28792	4.220	-0.001	41270	2.99	2.80	6.5	Tetrachloro-m-xylene
9.355	-0.000	21954	10.466	-0.000	30646	3.41	3.50	2.5	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

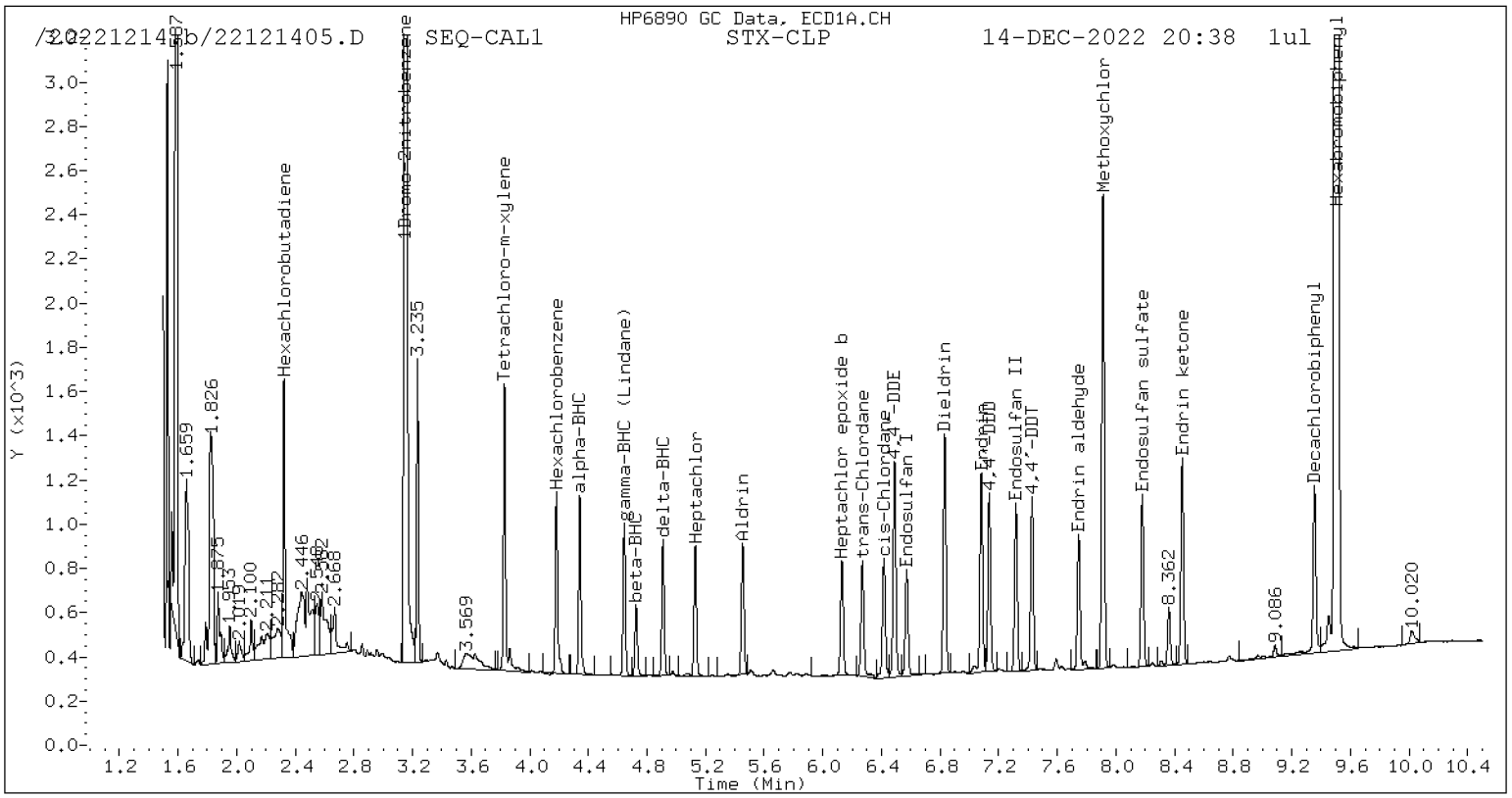
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	707324	-0.5
Hexabromobiphenyl	641833	634819	-1.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1045524	-1.3
Hexabromobiphenyl	797125	792558	-0.6

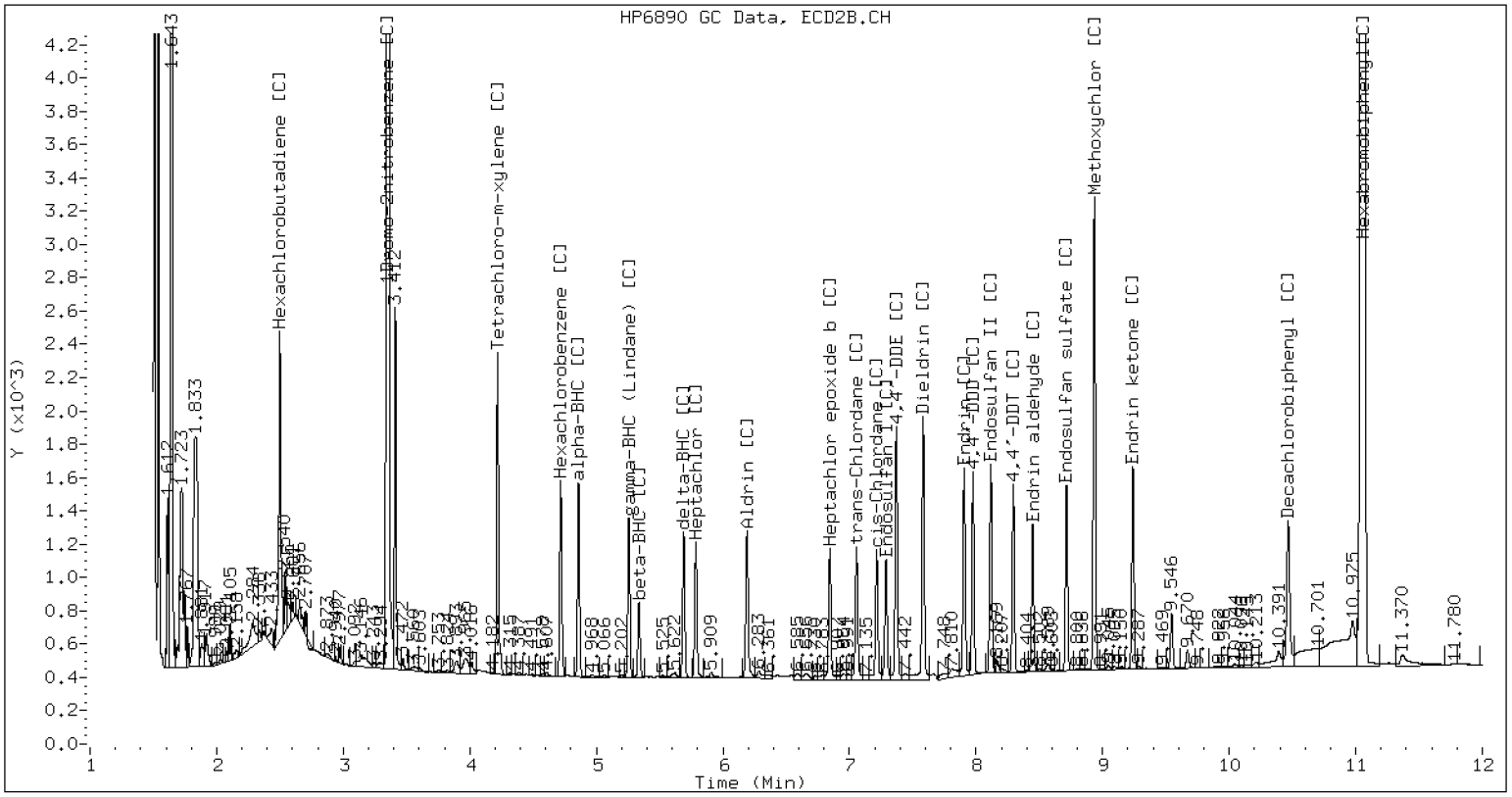
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121405.D SEQ-CAL1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121405.D
Data file 2: /20221214.b/B20221214.b/22121405.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1
Client ID:
Injection Date: 14-DEC-2022 20:38
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121406.D
Data file 2: /20221214.b/B20221214.b/22121406.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2
Client ID:
Injection Date: 14-DEC-2022 20:56
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	-0.000	35088	4.859	-0.001	52514	2.54	2.47	2.9	alpha-BHC
4.726	-0.000	14580	5.337	-0.000	21664	2.74	2.68	2.4	beta-BHC
4.909	-0.000	28429	5.691	-0.000	43932	2.52	2.51	0.5	delta-BHC
4.645	0.000	30588	5.257	-0.001	44971	2.55	2.49	2.5	gamma-BHC (Lindane)
5.129	-0.001	28458	5.787	-0.000	42156	2.67	2.58	3.6	Heptachlor
5.453	-0.001	30273	6.190	-0.001	50159	2.53	2.69	5.8	Aldrin
6.130	-0.001	27608	6.845	-0.001	43067	2.67	2.79	4.5	Heptachlor epoxide b
6.572	-0.000	25650	7.288	-0.001	37112	2.70	2.73	1.0	Endosulfan I
6.832	0.000	54960	7.582	-0.001	84296	5.38	5.60	4.0	Dieldrin
6.489	-0.000	51182	7.370	-0.001	74355	5.40	5.39	0.2	4,4'-DDE
7.081	0.000	46577	7.906	-0.001	63434	5.52	5.52	0.1	Endrin
7.317	0.001	37804	8.116	-0.001	65448	4.98	5.56	11.1	Endosulfan II
7.136	0.001	40399	7.976	-0.001	62302	5.32	5.58	4.8	4,4'-DDD
8.179	-0.001	38342	8.714	-0.001	57421	5.32	5.56	4.4	Endosulfan sulfate
7.427	-0.000	40499	8.294	-0.001	59346	5.27	5.51	4.3	4,4'-DDT
7.912	-0.000	98271	8.934	-0.002	130815	28.88	27.42	5.2	Methoxychlor
8.452	-0.001	45639	9.239	-0.001	62360	5.53	5.59	1.1	Endrin ketone
7.746	0.000	32847	8.447	-0.001	47592	5.42	5.73	5.6	Endrin aldehyde
6.271	0.000	28307	7.055	-0.001	41633	2.69	2.70	0.4	trans-Chlordane
6.417	0.000	29336	7.215	-0.000	41766	2.78	2.77	0.3	cis-Chlordane
2.323	-0.001	44113	2.500	-0.001	65565	3.05	3.24	6.2	Hexachlorobutadiene
4.182	-0.000	35520	4.718	-0.000	53173	2.77	2.75	0.9	Hexachlorobenzene
3.828	-0.000	54873	4.220	-0.001	81034	5.62	5.42	3.7	Tetrachloro-m-xylene
9.354	-0.001	38477	10.465	-0.001	54866	5.90	6.15	4.1	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

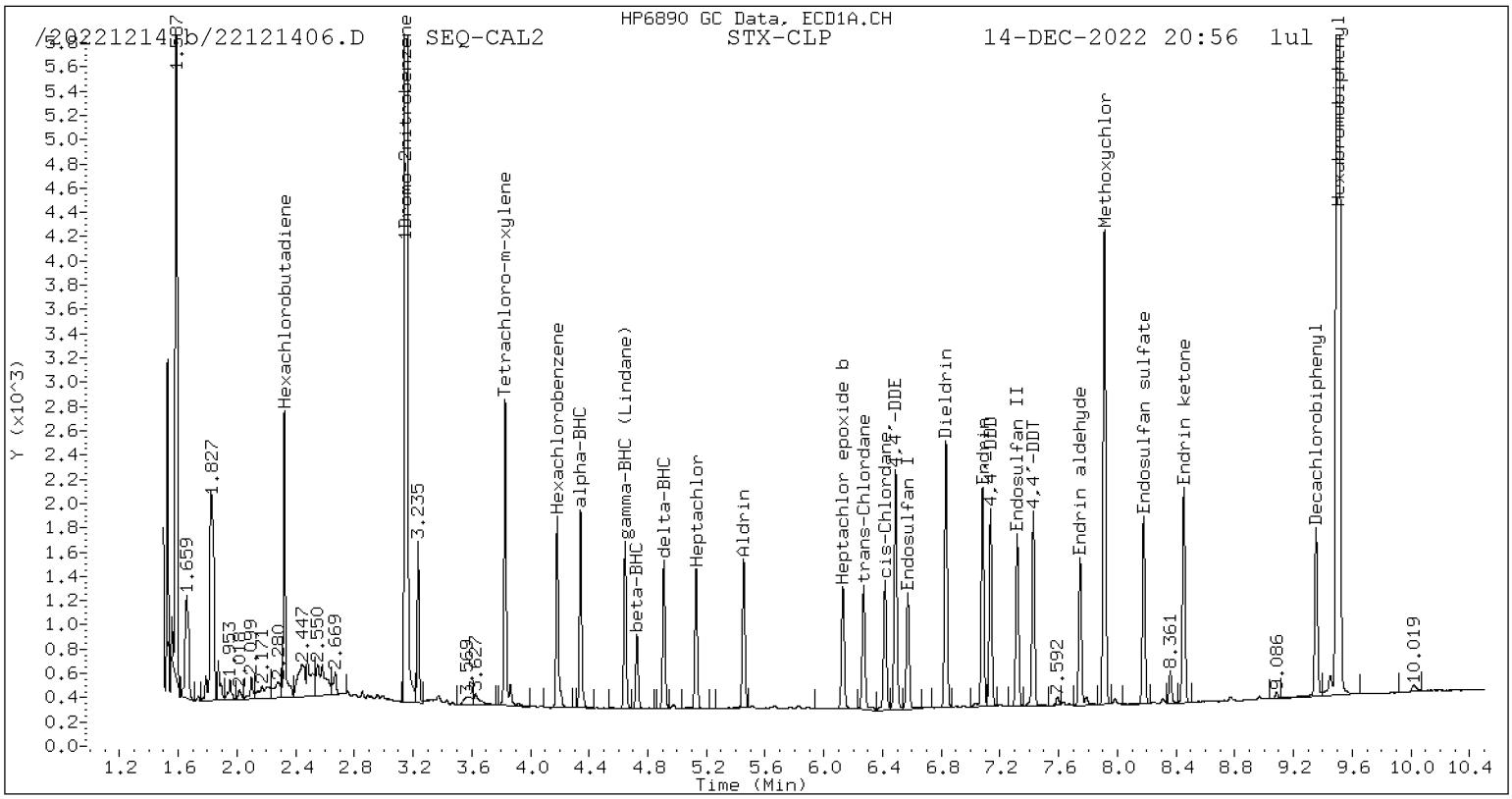
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	717600	1.0
Hexabromobiphenyl	641833	643445	0.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1061990	0.3
Hexabromobiphenyl	797125	807490	1.3

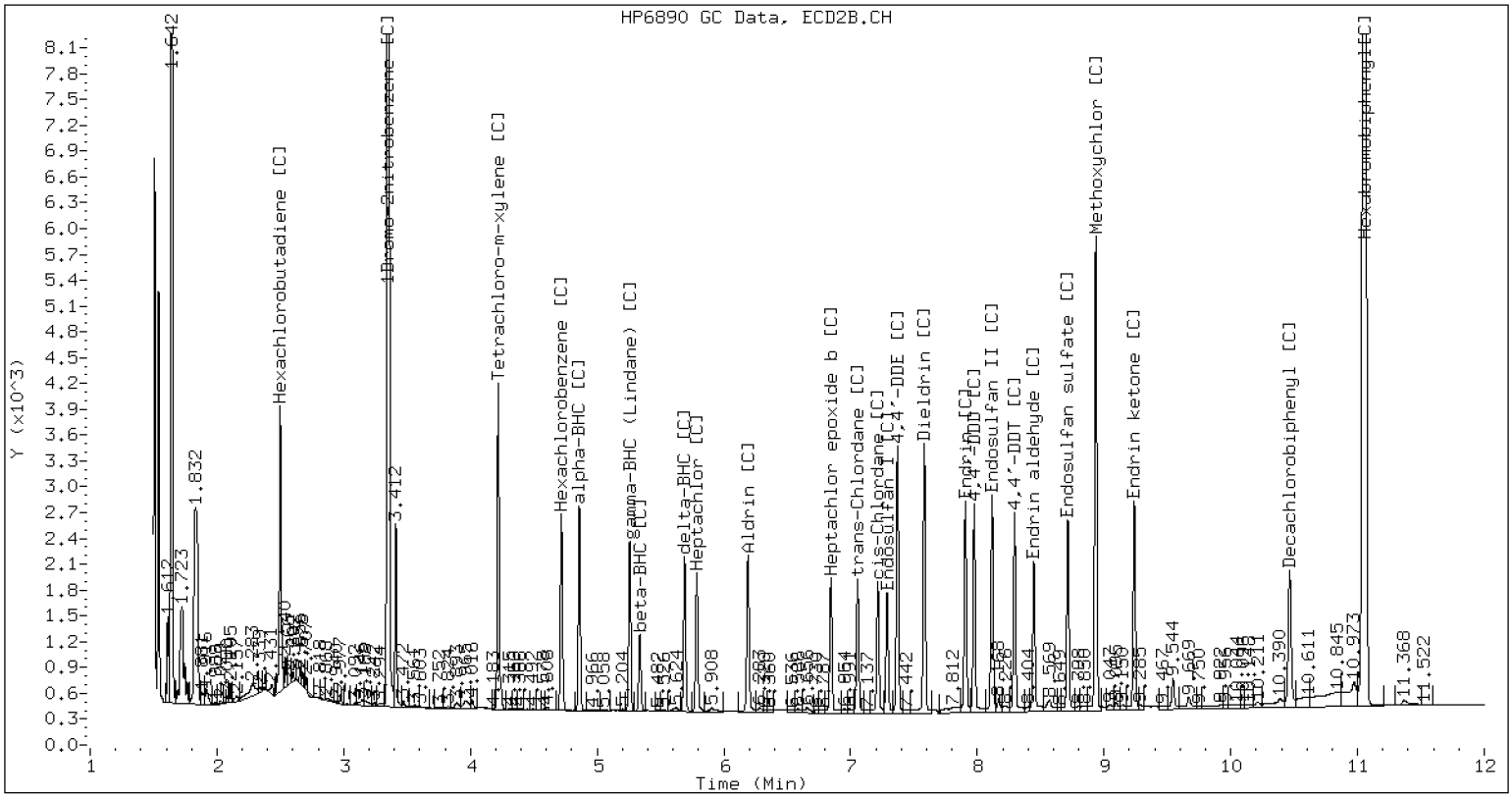
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121406.D SEQ-CAL2 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121406.D
Data file 2: /20221214.b/B20221214.b/22121406.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2
Client ID:
Injection Date: 14-DEC-2022 20:56
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121407.D
Data file 2: /20221214.b/B20221214.b/22121407.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3
Client ID:
Injection Date: 14-DEC-2022 21:14
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.343	0.001	68202	4.860	-0.000	103195	5.06	4.95	2.2	alpha-BHC
4.727	0.000	26774	5.338	0.000	40159	5.16	5.06	1.8	beta-BHC
4.910	0.001	55344	5.691	0.000	85044	5.02	4.95	1.5	delta-BHC
4.646	0.001	59491	5.258	0.000	87747	5.09	4.96	2.6	gamma-BHC (Lindane)
5.130	0.000	53529	5.787	0.000	80295	5.15	5.01	2.7	Heptachlor
5.455	0.001	59061	6.191	0.000	92167	5.07	5.03	0.7	Aldrin
6.132	0.001	52071	6.845	-0.000	76415	5.15	5.05	2.1	Heptachlor epoxide b
6.573	0.001	48052	7.289	-0.000	67929	5.18	5.09	1.8	Endosulfan I
6.832	0.001	104217	7.583	-0.000	151301	10.46	10.26	1.9	Dieldrin
6.490	0.001	97042	7.371	0.000	139172	10.49	10.29	1.9	4,4'-DDE
7.082	0.001	87185	7.906	-0.001	115830	10.66	10.37	2.8	Endrin
7.318	0.001	77341	8.117	0.000	118175	10.50	10.32	1.8	Endosulfan II
7.136	0.001	77451	7.976	0.000	110178	10.51	10.14	3.6	4,4'-DDD
8.180	0.001	73440	8.715	0.000	102417	10.50	10.18	3.1	Endosulfan sulfate
7.428	0.001	77522	8.294	-0.001	105882	10.41	10.09	3.1	4,4'-DDT
7.913	0.001	178164	8.935	-0.001	239047	53.98	51.49	4.7	Methoxychlor
8.454	0.000	84510	9.239	-0.000	110024	10.55	10.13	4.1	Endrin ketone
7.746	0.001	61122	8.448	-0.000	82817	10.40	10.25	1.5	Endrin aldehyde
6.271	0.001	52622	7.056	-0.000	76513	5.13	5.07	1.1	trans-Chlordane
6.417	0.001	53515	7.216	0.000	75023	5.20	5.08	2.3	cis-Chlordane
2.324	-0.000	75632	2.500	-0.000	107268	5.35	5.41	1.1	Hexachlorobutadiene
4.183	0.001	66090	4.718	-0.000	98926	5.28	5.21	1.3	Hexachlorobenzene
3.828	0.000	101081	4.220	-0.000	153451	10.61	10.47	1.3	Tetrachloro-m-xylene
9.355	-0.000	67797	10.466	-0.000	92260	10.72	10.62	0.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

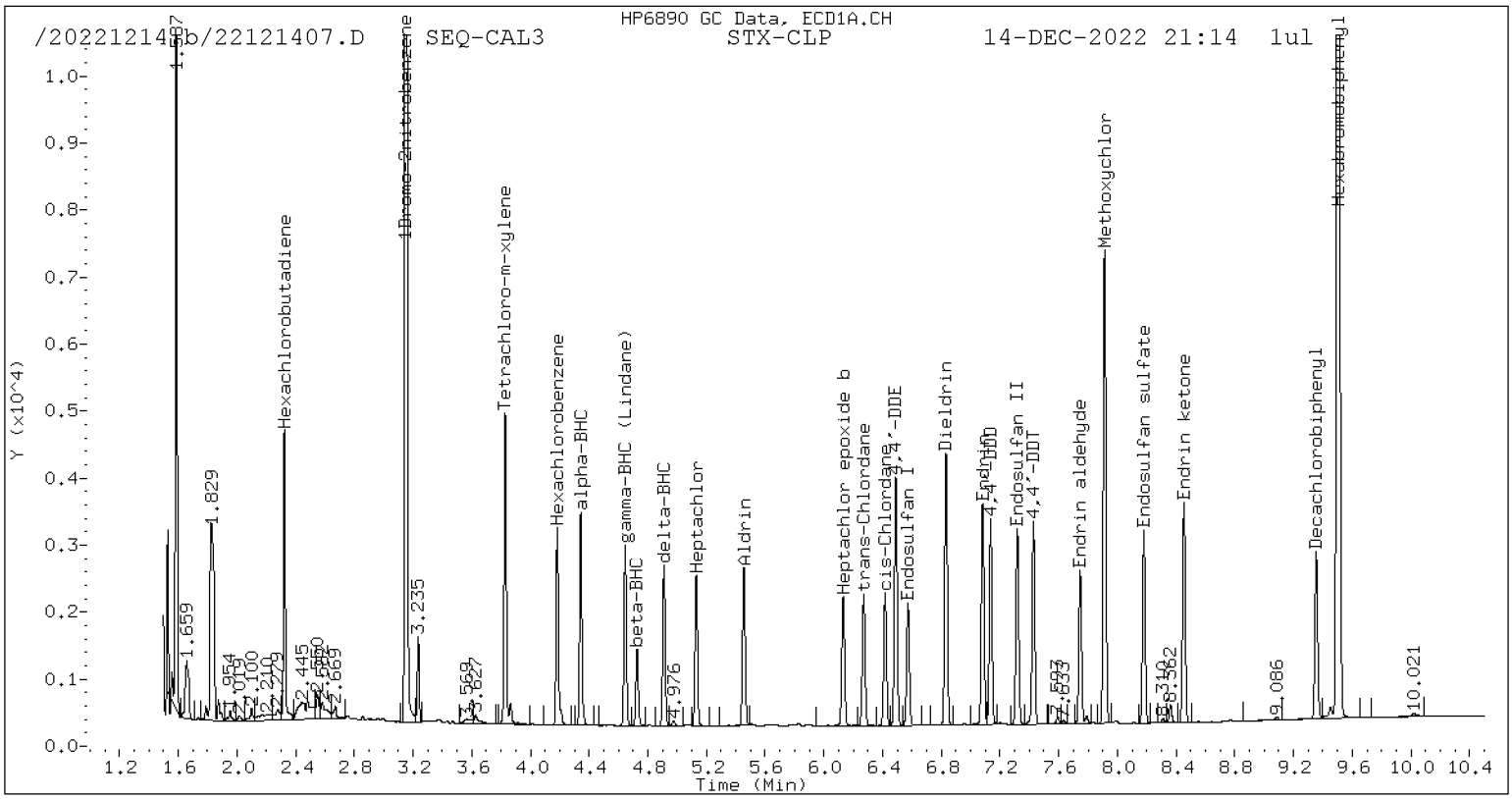
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	700354	-1.4
Hexabromobiphenyl	641833	624108	-2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1040903	-1.7
Hexabromobiphenyl	797125	785894	-1.4

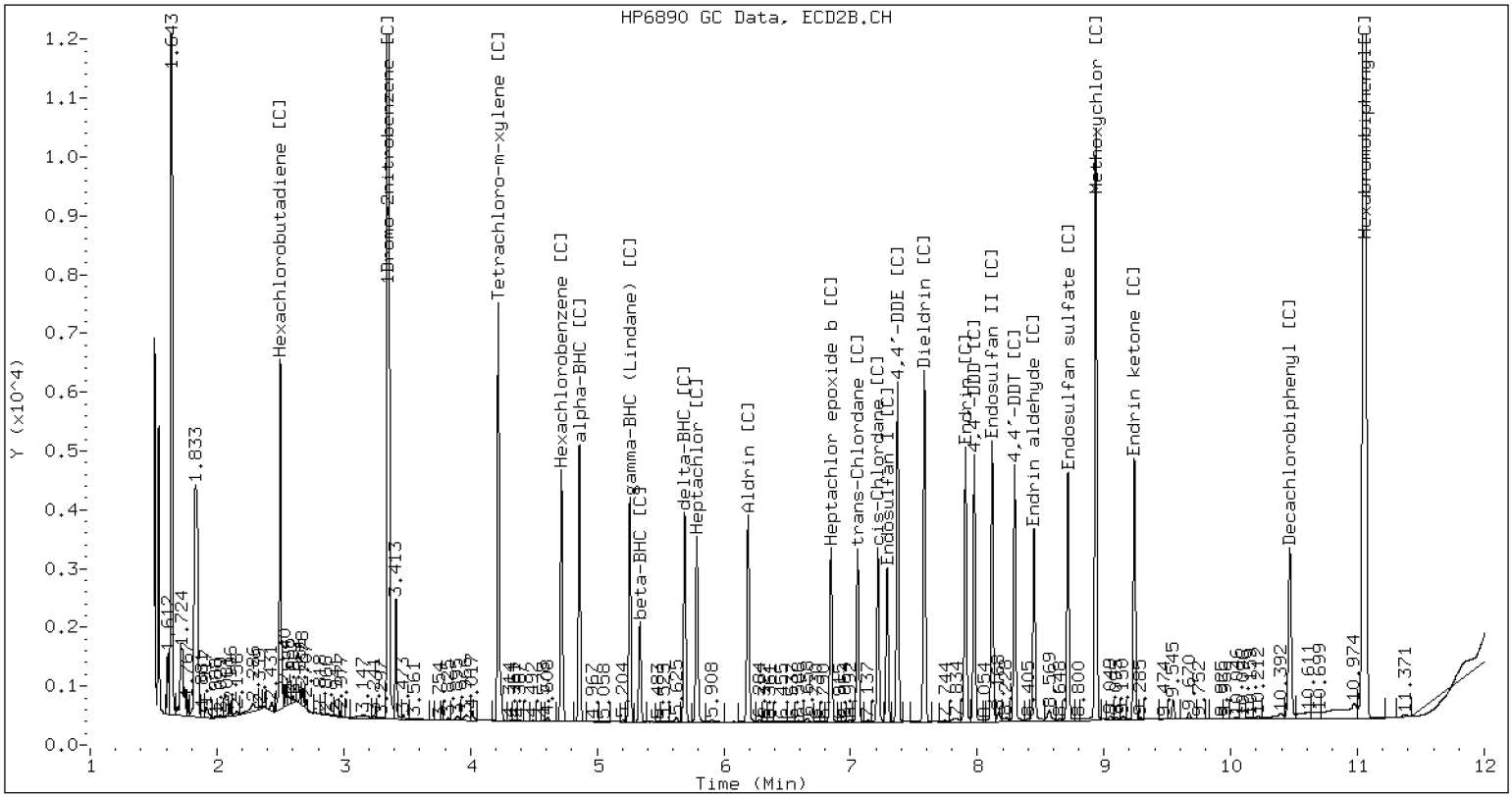
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121407.D SEQ-CAL3 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121407.D
Data file 2: /20221214.b/B20221214.b/22121407.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3
Client ID:
Injection Date: 14-DEC-2022 21:14
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121408.D
Data file 2: /20221214.b/B20221214.b/22121408.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4
Client ID:
Injection Date: 14-DEC-2022 21:31
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.343	0.000	139784	4.860	-0.000	216159	10.22	10.19	0.3	alpha-BHC
4.726	0.000	53742	5.337	0.000	81857	10.20	10.15	0.6	beta-BHC
4.910	0.001	113586	5.691	0.000	177281	10.16	10.14	0.2	delta-BHC
4.646	0.000	121488	5.258	0.000	182844	10.24	10.15	0.9	gamma-BHC (Lindane)
5.130	0.000	108260	5.787	-0.000	166558	10.26	10.21	0.5	Heptachlor
5.454	0.000	124839	6.191	0.000	189618	10.55	10.18	3.6	Aldrin
6.131	0.001	107301	6.846	0.001	155424	10.46	10.09	3.6	Heptachlor epoxide b
6.573	0.000	97151	7.289	0.000	137043	10.32	10.10	2.2	Endosulfan I
6.832	0.001	210564	7.583	0.000	301602	20.82	20.11	3.5	Dieldrin
6.490	0.001	195139	7.371	0.000	281756	20.79	20.49	1.5	4,4'-DDE
7.082	0.001	173216	7.907	-0.000	231062	20.59	20.39	1.0	Endrin
7.318	0.001	161303	8.117	0.001	236844	21.29	20.39	4.4	Endosulfan II
7.136	0.001	157301	7.977	0.001	222755	20.75	20.21	2.7	4,4'-DDD
8.180	0.000	146955	8.715	0.000	205334	20.43	20.13	1.5	Endosulfan sulfate
7.428	0.001	156744	8.295	-0.000	212755	20.46	19.99	2.3	4,4'-DDT
7.912	0.001	344324	8.936	-0.001	473459	101.43	100.55	0.9	Methoxychlor
8.453	-0.000	167384	9.240	0.000	222080	20.31	20.15	0.8	Endrin ketone
7.746	0.000	123653	8.448	0.000	164391	20.47	20.06	2.0	Endrin aldehyde
6.271	0.001	106805	7.056	0.000	154174	10.25	10.04	2.1	trans-Chlordane
6.418	0.001	106651	7.216	0.001	150231	10.21	10.00	2.1	cis-Chlordane
2.323	-0.000	142895	2.500	-0.001	197539	9.97	9.80	1.7	Hexachlorobutadiene
4.183	0.000	130020	4.718	0.000	197396	10.24	10.22	0.1	Hexachlorobenzene
3.828	0.000	199446	4.220	-0.000	308345	20.64	20.69	0.2	Tetrachloro-m-xylene
9.355	0.000	130210	10.466	-0.000	170633	20.02	19.37	3.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

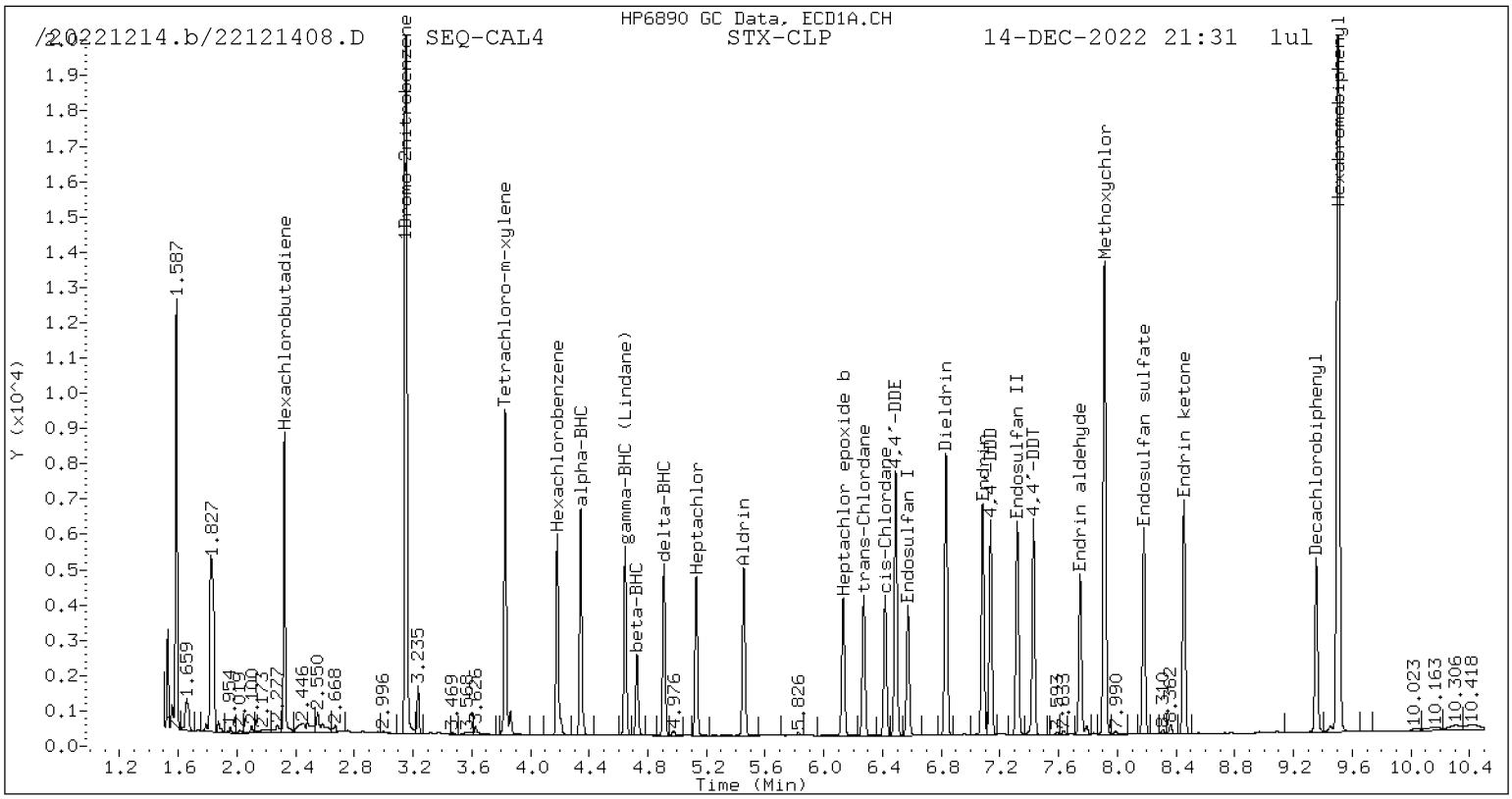
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	710650	0.0
Hexabromobiphenyl	641833	641833	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1058848	0.0
Hexabromobiphenyl	797125	797125	0.0

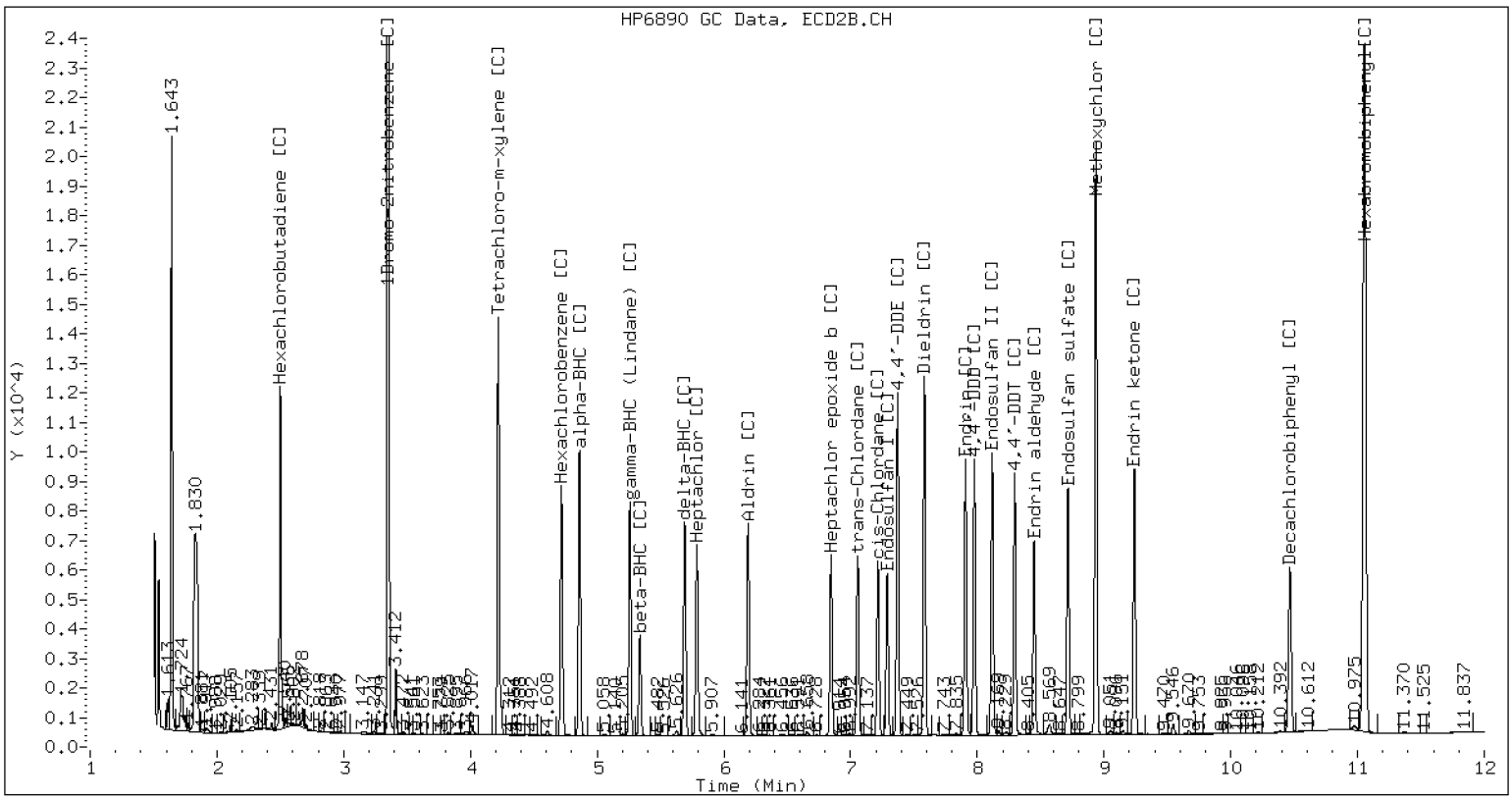
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121408.D SEQ-CAL4 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121408.D
Data file 2: /20221214.b/B20221214.b/22121408.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4
Client ID:
Injection Date: 14-DEC-2022 21:31
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121409.D
Data file 2: /20221214.b/B20221214.b/22121409.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5
Client ID:
Injection Date: 14-DEC-2022 21:49
Report Date: 12/16/2022 15:30
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	0.000	263355	4.860	-0.001	412780	20.34	20.46	0.6	alpha-BHC
4.726	0.000	99355	5.337	-0.000	154138	19.93	20.10	0.8	beta-BHC
4.909	0.000	216224	5.690	-0.000	334261	20.44	20.12	1.6	delta-BHC
4.645	0.000	228274	5.258	-0.000	350450	20.34	20.47	0.7	gamma-BHC (Lindane)
5.130	0.000	203067	5.787	-0.000	320123	20.33	20.64	1.5	Heptachlor
5.454	0.000	230734	6.191	-0.000	359912	20.62	20.33	1.4	Aldrin
6.130	0.000	198033	6.845	-0.000	295580	20.41	20.19	1.1	Heptachlor epoxide b
6.572	0.000	180905	7.289	-0.000	260351	20.31	20.18	0.7	Endosulfan I
6.831	0.000	388583	7.582	-0.000	571731	40.61	40.10	1.3	Dieldrin
6.489	0.000	362177	7.370	-0.000	531128	40.77	40.63	0.4	4,4'-DDE
7.081	0.000	323576	7.907	-0.000	442460	40.48	40.43	0.1	Endrin
7.317	0.000	282010	8.117	-0.000	446656	39.19	39.81	1.6	Endosulfan II
7.135	0.000	292251	7.976	-0.000	427990	40.58	40.20	0.9	4,4'-DDD
8.180	0.000	276113	8.715	0.000	393743	40.41	39.97	1.1	Endosulfan sulfate
7.427	0.000	296413	8.295	-0.000	413083	40.73	40.20	1.3	4,4'-DDT
7.912	0.000	628619	8.935	-0.001	900958	194.94	198.14	1.6	Methoxychlor
8.453	0.000	311305	9.239	-0.000	423698	39.77	39.82	0.1	Endrin ketone
7.746	0.000	230881	8.448	0.000	312907	40.23	39.54	1.7	Endrin aldehyde
6.271	0.000	200151	7.056	-0.000	294106	20.31	20.15	0.8	trans-Chlordane
6.417	0.000	197892	7.216	-0.000	285904	20.02	20.02	0.0	cis-Chlordane
2.324	0.000	260716	2.500	-0.000	346254	19.22	18.08	6.2	Hexachlorobutadiene
4.182	0.000	237746	4.718	-0.000	364913	19.78	19.88	0.5	Hexachlorobenzene
3.828	0.000	357836	4.220	-0.000	567647	39.13	40.07	2.4	Tetrachloro-m-xylene
9.355	0.000	239428	10.466	-0.001	327134	38.76	38.45	0.8	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

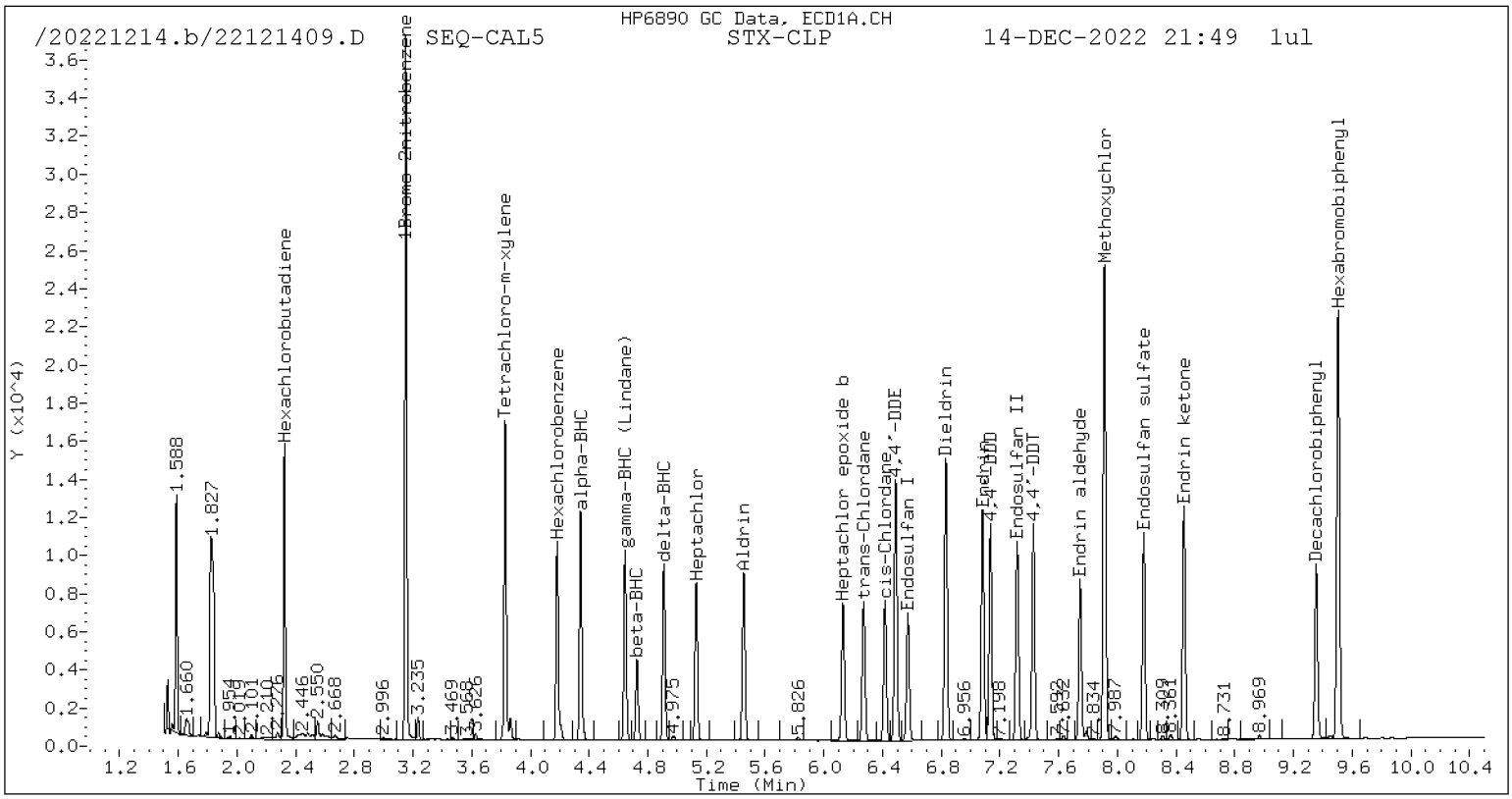
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	672426	0.0
Hexabromobiphenyl	609723	609723	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1006482	0.0
Hexabromobiphenyl	769764	769764	0.0

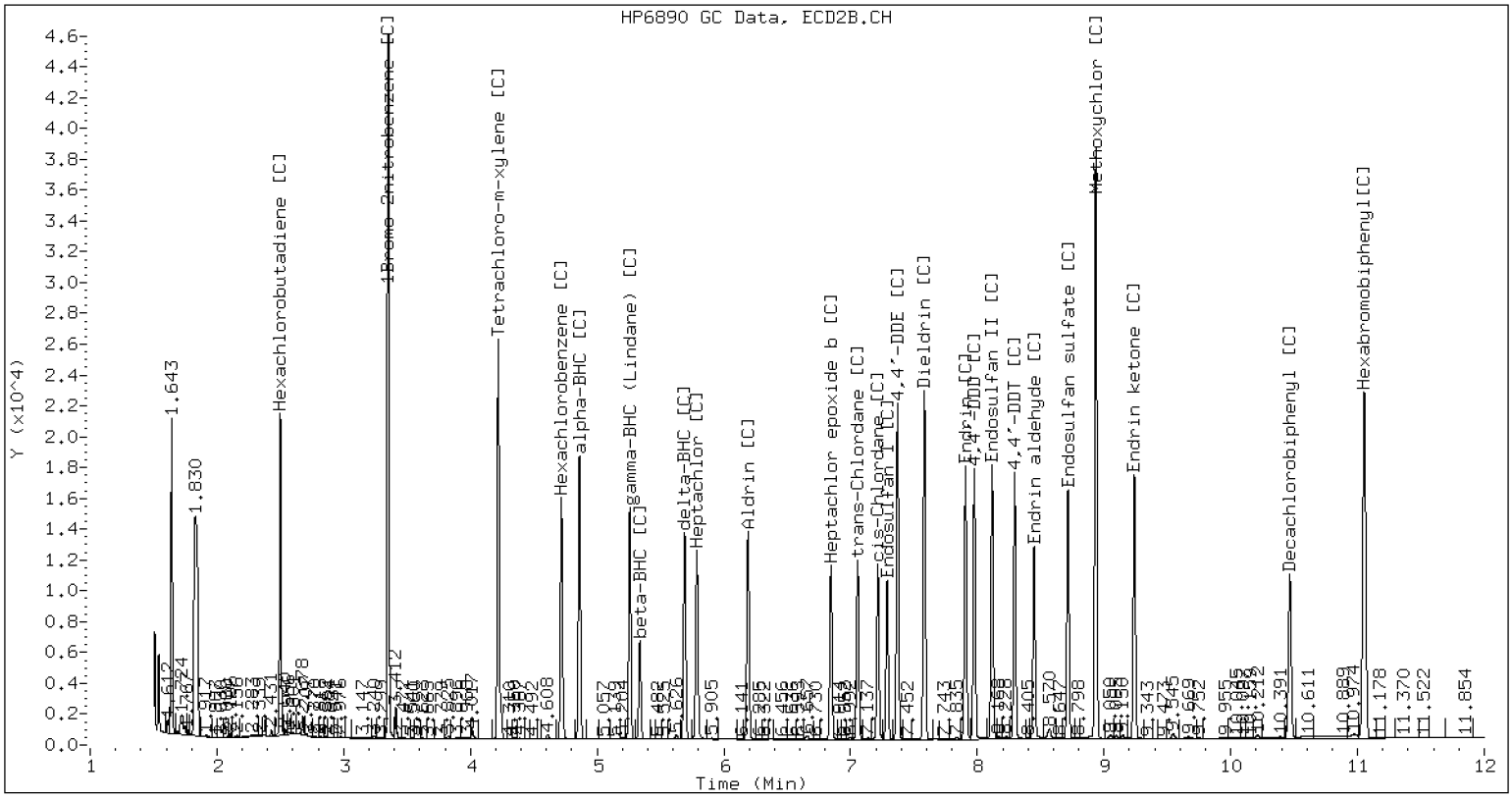
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121409.D SEQ-CAL5 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121409.D
Data file 2: /20221214.b/B20221214.b/22121409.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5
Client ID:
Injection Date: 14-DEC-2022 21:49
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121410.D
Data file 2: /20221214.b/B20221214.b/22121410.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6
Client ID:
Injection Date: 14-DEC-2022 22:07
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	0.000	535902	4.860	-0.000	849533	39.69	40.30	1.5	alpha-BHC
4.726	0.000	198976	5.337	-0.000	311218	38.28	38.84	1.4	beta-BHC
4.910	0.000	440370	5.691	0.000	700464	39.91	40.34	1.1	delta-BHC
4.646	0.000	461905	5.258	0.000	718675	39.46	40.18	1.8	gamma-BHC (Lindane)
5.130	0.000	401672	5.787	0.000	639345	38.56	39.46	2.3	Heptachlor
5.454	0.000	458396	6.190	-0.000	720942	39.27	38.97	0.8	Aldrin
6.130	0.000	387273	6.846	0.000	586062	38.26	38.31	0.1	Heptachlor epoxide b
6.572	-0.000	354629	7.288	-0.001	519836	38.18	38.55	1.0	Endosulfan I
6.832	0.000	755708	7.582	-0.000	1126850	75.73	75.64	0.1	Dieldrin
6.489	0.000	698620	7.371	-0.000	1040947	75.40	76.19	1.0	4,4'-DDE
7.082	0.000	615481	7.907	-0.000	858461	74.19	74.98	1.1	Endrin
7.317	0.000	590923	8.117	-0.000	885035	79.12	75.41	4.8	Endosulfan II
7.136	0.000	565557	7.976	-0.000	842536	75.67	75.65	0.0	4,4'-DDD
8.179	-0.001	540557	8.715	0.000	782860	76.22	75.96	0.3	Endosulfan sulfate
7.427	0.000	577337	8.295	-0.000	820861	76.44	76.36	0.1	4,4'-DDT
7.912	-0.000	1204040	8.935	-0.001	1785262	359.75	375.30	4.2	Methoxychlor
8.453	-0.001	610387	9.239	-0.000	843646	75.13	75.79	0.9	Endrin ketone
7.746	-0.000	452325	8.448	0.000	622287	75.93	75.17	1.0	Endrin aldehyde
6.271	0.000	395598	7.056	-0.000	591899	38.48	38.80	0.8	trans-Chlordane
6.417	0.001	389712	7.215	-0.000	573103	37.80	38.40	1.6	cis-Chlordane
2.324	0.000	511265	2.500	-0.000	705320	36.14	35.24	2.5	Hexachlorobutadiene
4.183	0.001	472841	4.718	0.000	728846	37.72	37.99	0.7	Hexachlorobenzene
3.828	-0.000	714634	4.221	0.000	1124106	74.93	75.93	1.3	Tetrachloro-m-xylene
9.355	-0.000	468280	10.466	-0.001	645336	73.03	72.51	0.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

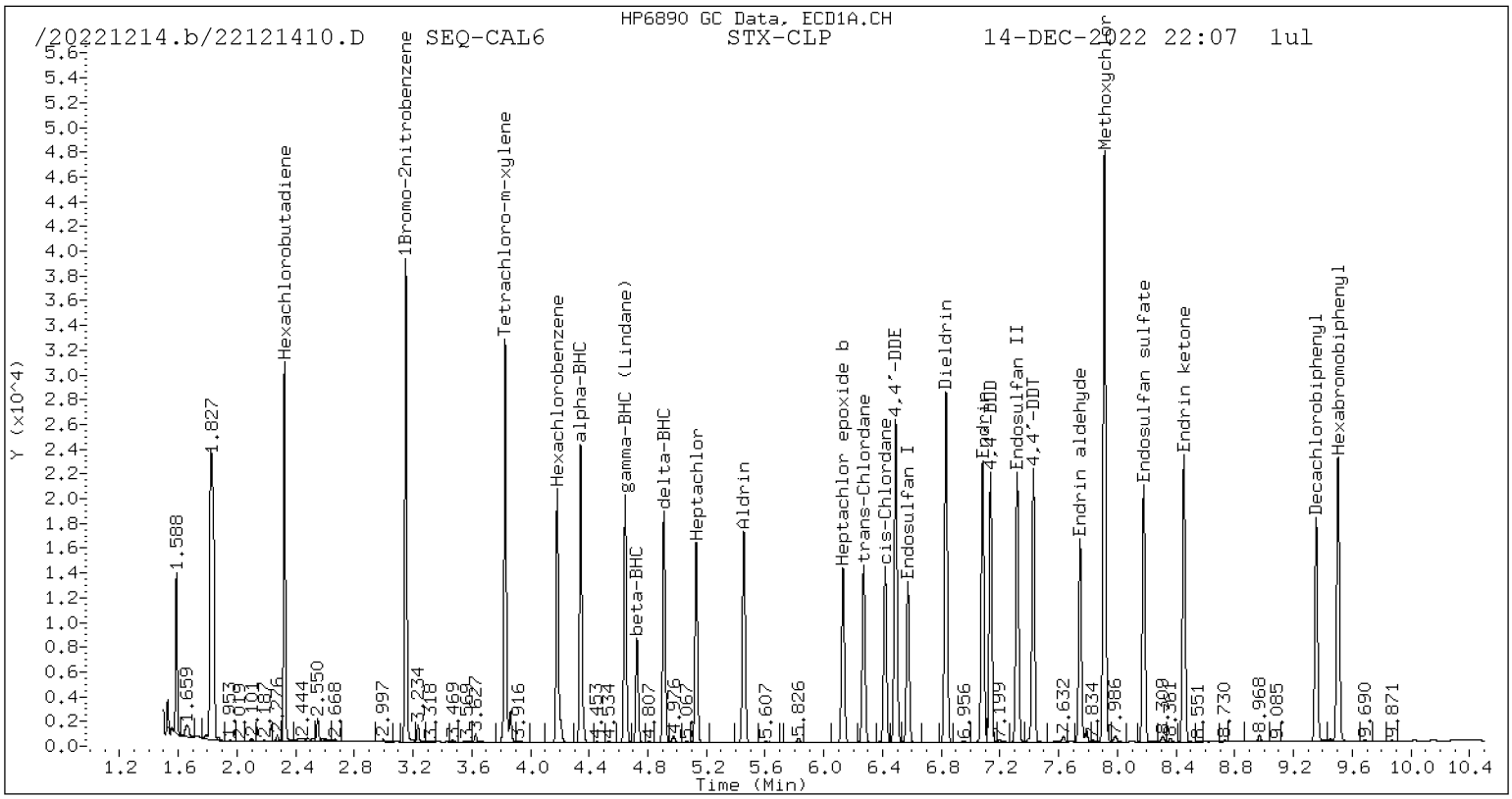
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	701342	-1.3
Hexabromobiphenyl	641833	632821	-1.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1051766	-0.7
Hexabromobiphenyl	797125	805268	1.0

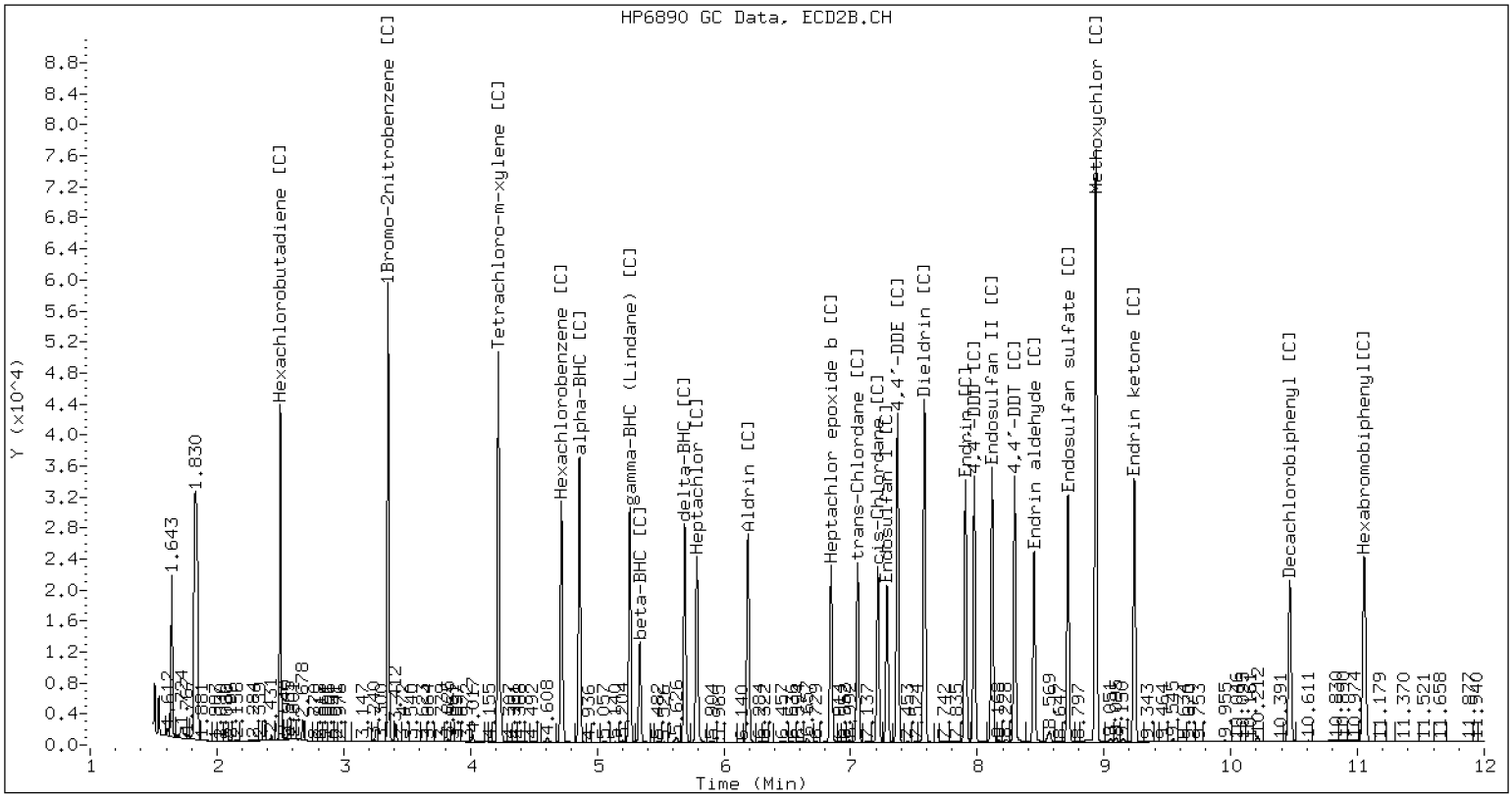
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121410.D SEQ-CAL6 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121410.D
Data file 2: /20221214.b/B20221214.b/22121410.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6
Client ID:
Injection Date: 14-DEC-2022 22:07
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121411.D
Data file 2: /20221214.b/B20221214.b/22121411.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7
Client ID:
Injection Date: 14-DEC-2022 22:25
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	0.000	1012605	4.861	0.000	1623058	75.30	77.94	3.4	alpha-BHC
4.726	0.000	371916	5.337	0.000	586390	71.84	74.06	3.1	beta-BHC
4.910	0.000	837966	5.691	0.000	1343533	76.25	78.32	2.7	delta-BHC
4.645	-0.000	870454	5.258	0.000	1370551	74.66	77.55	3.8	gamma-BHC (Lindane)
5.130	0.000	743802	5.787	0.000	1188915	71.70	74.26	3.5	Heptachlor
5.454	0.000	841598	6.191	0.000	1331430	72.39	72.84	0.6	Aldrin
6.130	-0.000	709774	6.845	0.000	1087105	70.41	71.92	2.1	Heptachlor epoxide b
6.573	0.000	652702	7.289	0.000	969098	70.56	72.74	3.1	Endosulfan I
6.832	0.000	1390496	7.583	0.000	2118555	139.91	143.93	2.8	Dieldrin
6.490	0.001	1284777	7.371	0.000	1944530	139.23	144.06	3.4	4,4'-DDE
7.082	0.001	1132487	7.907	0.000	1618631	137.86	142.60	3.4	Endrin
7.317	0.000	1089554	8.117	0.000	1672946	147.33	143.79	2.4	Endosulfan II
7.135	0.000	1051958	7.976	0.000	1606815	142.14	145.53	2.4	4,4'-DDD
8.180	0.000	1013288	8.715	0.000	1496440	144.30	146.47	1.5	Endosulfan sulfate
7.428	0.001	1086138	8.295	0.000	1586078	145.23	148.84	2.5	4,4'-DDT
7.912	0.001	2325261	8.936	0.000	3541650	701.64	751.02	6.8	Methoxychlor
8.454	0.000	1146784	9.240	0.000	1623077	142.56	147.08	3.1	Endrin ketone
7.746	-0.000	846477	8.448	0.000	1178353	143.51	143.57	0.0	Endrin aldehyde
6.271	0.000	733514	7.056	0.000	1114685	71.64	73.95	3.2	trans-Chlordane
6.417	0.001	723886	7.216	0.000	1079255	70.50	73.19	3.7	cis-Chlordane
2.324	0.000	955982	2.501	0.000	1351745	67.86	68.35	0.7	Hexachlorobutadiene
4.182	0.000	879573	4.718	0.000	1355289	70.45	71.51	1.5	Hexachlorobenzene
3.828	0.000	1318381	4.220	0.000	2067539	138.79	141.35	1.8	Tetrachloro-m-xylene
9.356	0.000	878340	10.467	0.000	1231298	138.34	139.55	0.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

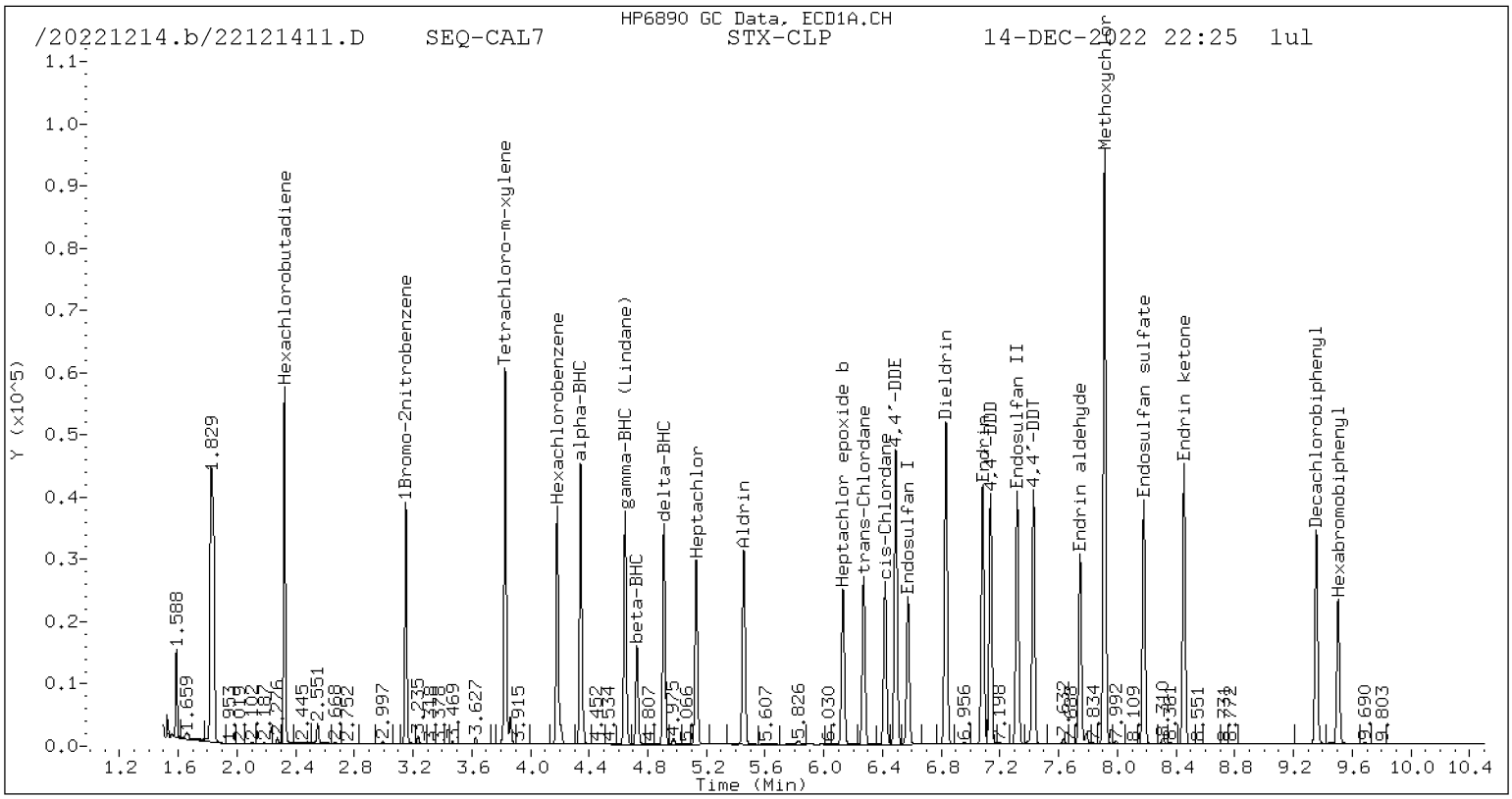
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	698499	-1.7
Hexabromobiphenyl	641833	626605	-2.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1039154	-1.9
Hexabromobiphenyl	797125	798313	0.1

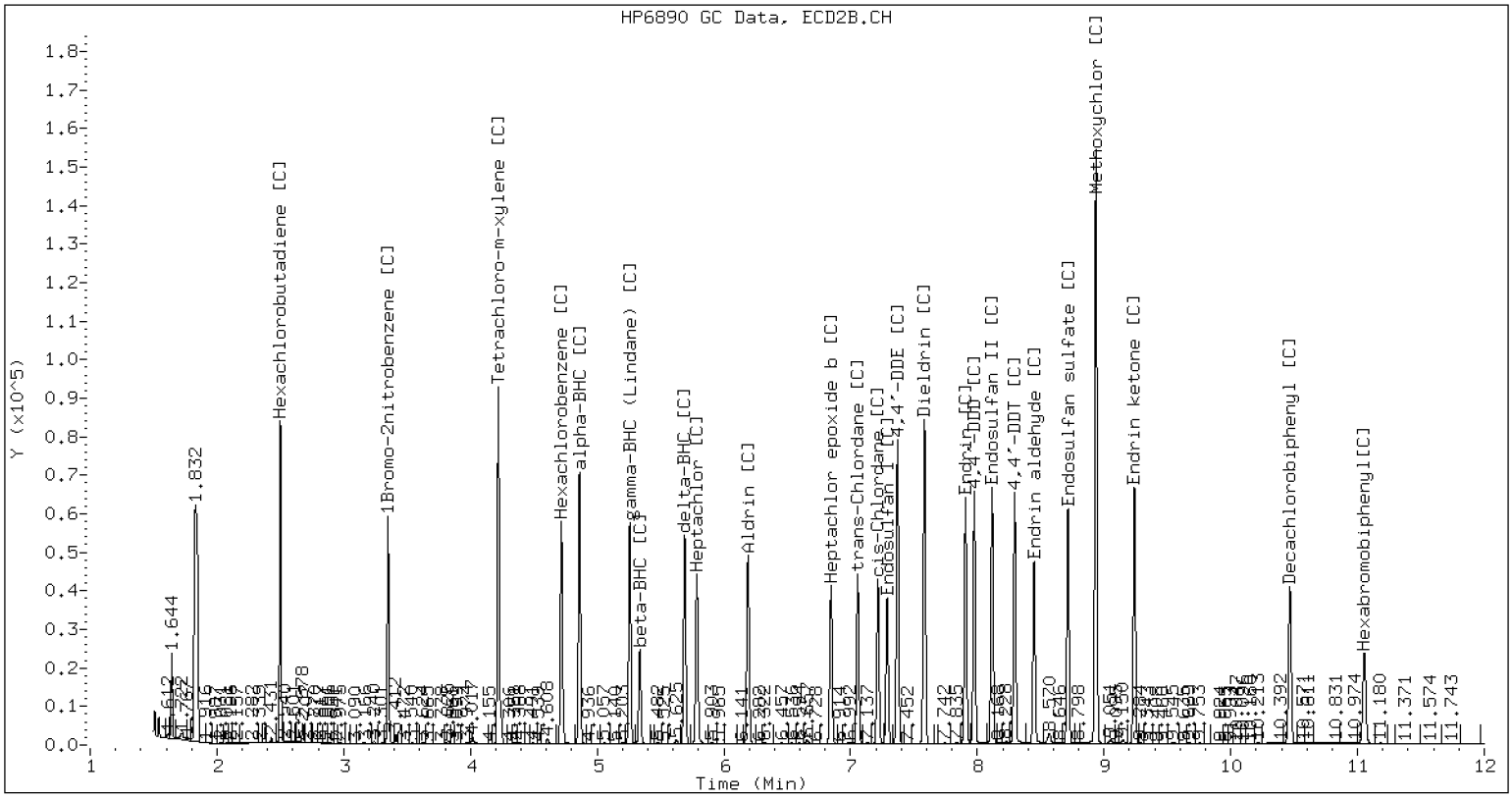
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121411.D SEQ-CAL7 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121411.D
Data file 2: /20221214.b/B20221214.b/22121411.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7
Client ID:
Injection Date: 14-DEC-2022 22:25
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121412.D
Data file 2: /20221214.b/B20221214.b/22121412.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8
Client ID:
Injection Date: 14-DEC-2022 22:43
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	-0.000	22184	6.741	-0.000	34211	2.89	2.85	1.2	Oxychlordane
6.106	-0.000	18661	7.036	-0.000	30817	2.94	3.14	6.5	2,4-DDE
6.397	-0.000	30616	7.154	-0.001	41466	3.05	2.82	7.5	trans-Nonachlor
6.681	0.000	16263	7.591	0.000	26177	2.88	3.12	7.9	2,4-DDD
6.956	-0.001	17569	7.913	-0.000	24398	2.88	2.82	2.1	2,4-DDT
7.112	-0.000	29417	7.975	-0.000	37972	3.01	2.72	9.9	cis-Nonachlor
8.082	-0.000	18819	9.223	-0.000	24312	3.09	3.00	3.1	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

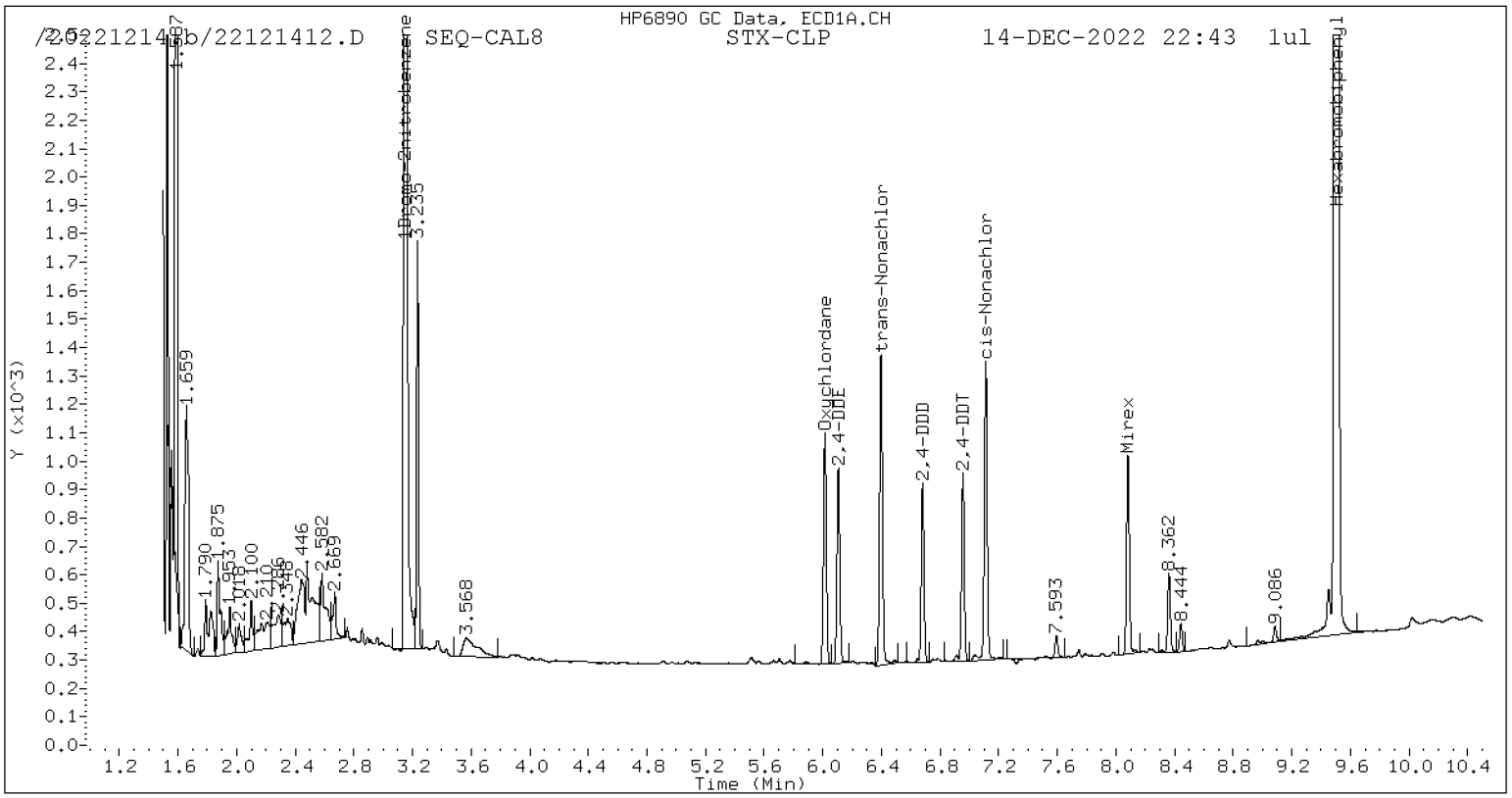
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	713898	0.5
Hexabromobiphenyl	641833	646441	0.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1076864	1.7
Hexabromobiphenyl	797125	820275	2.9

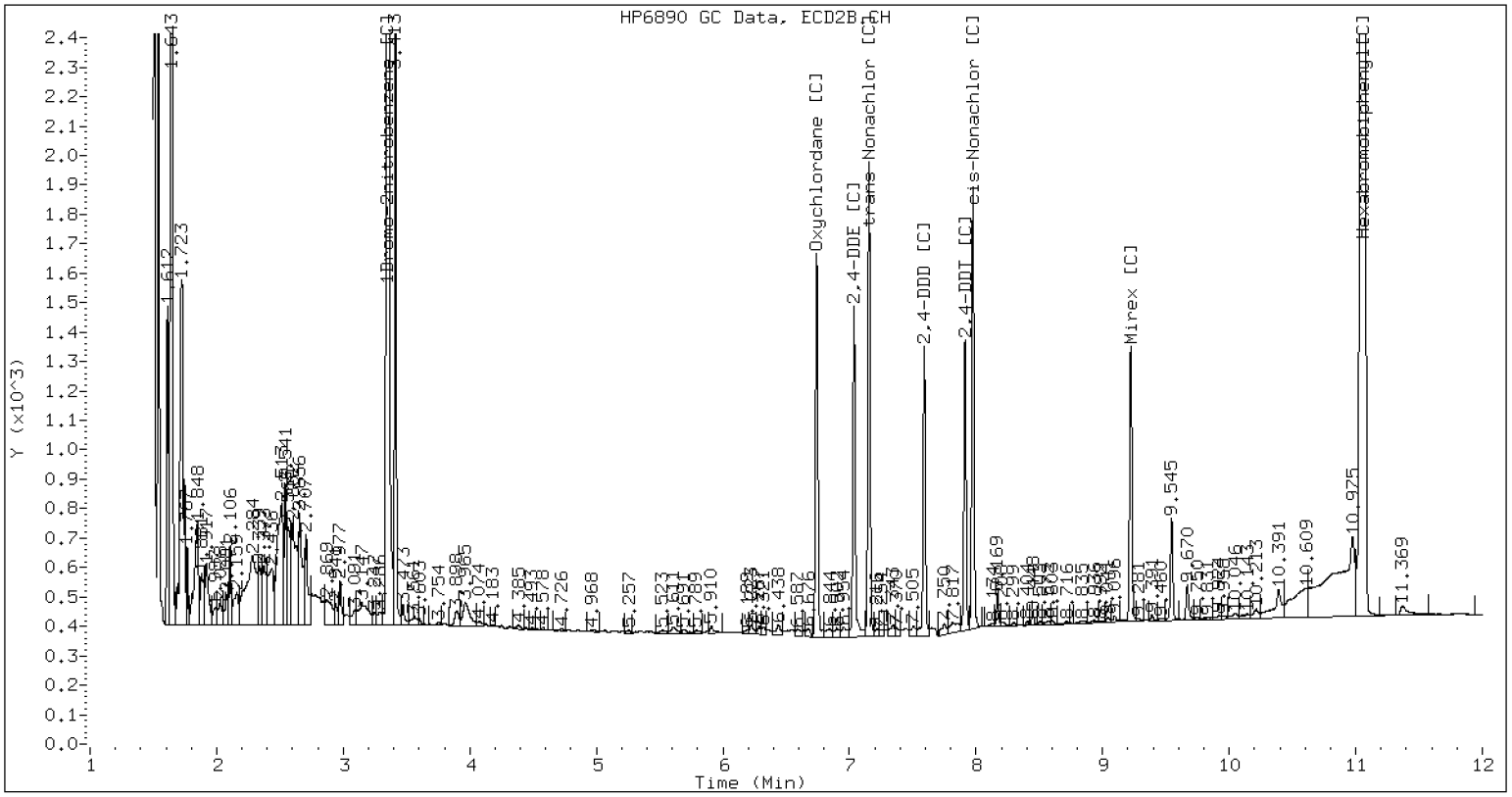
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121412.D SEQ-CAL8 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121412.D
Data file 2: /20221214.b/B20221214.b/22121412.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8
Client ID:
Injection Date: 14-DEC-2022 22:43
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121413.D
Data file 2: /20221214.b/B20221214.b/22121413.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9
Client ID:
Injection Date: 14-DEC-2022 23:01
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.015	0.000	39121	6.741	-0.000	61505	5.34	5.41	1.3	Oxychlordane
6.106	0.000	33487	7.036	-0.000	53206	5.54	5.72	3.1	2,4-DDE
6.398	0.000	51858	7.154	-0.001	72836	5.42	5.20	4.1	trans-Nonachlor
6.681	0.000	29307	7.590	-0.000	44506	5.45	5.55	1.9	2,4-DDD
6.957	-0.000	31530	7.914	0.000	45986	5.43	5.57	2.6	2,4-DDT
7.112	-0.000	50912	7.975	0.000	70898	5.46	5.32	2.6	cis-Nonachlor
8.082	-0.000	32004	9.223	-0.000	45650	5.52	5.89	6.6	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

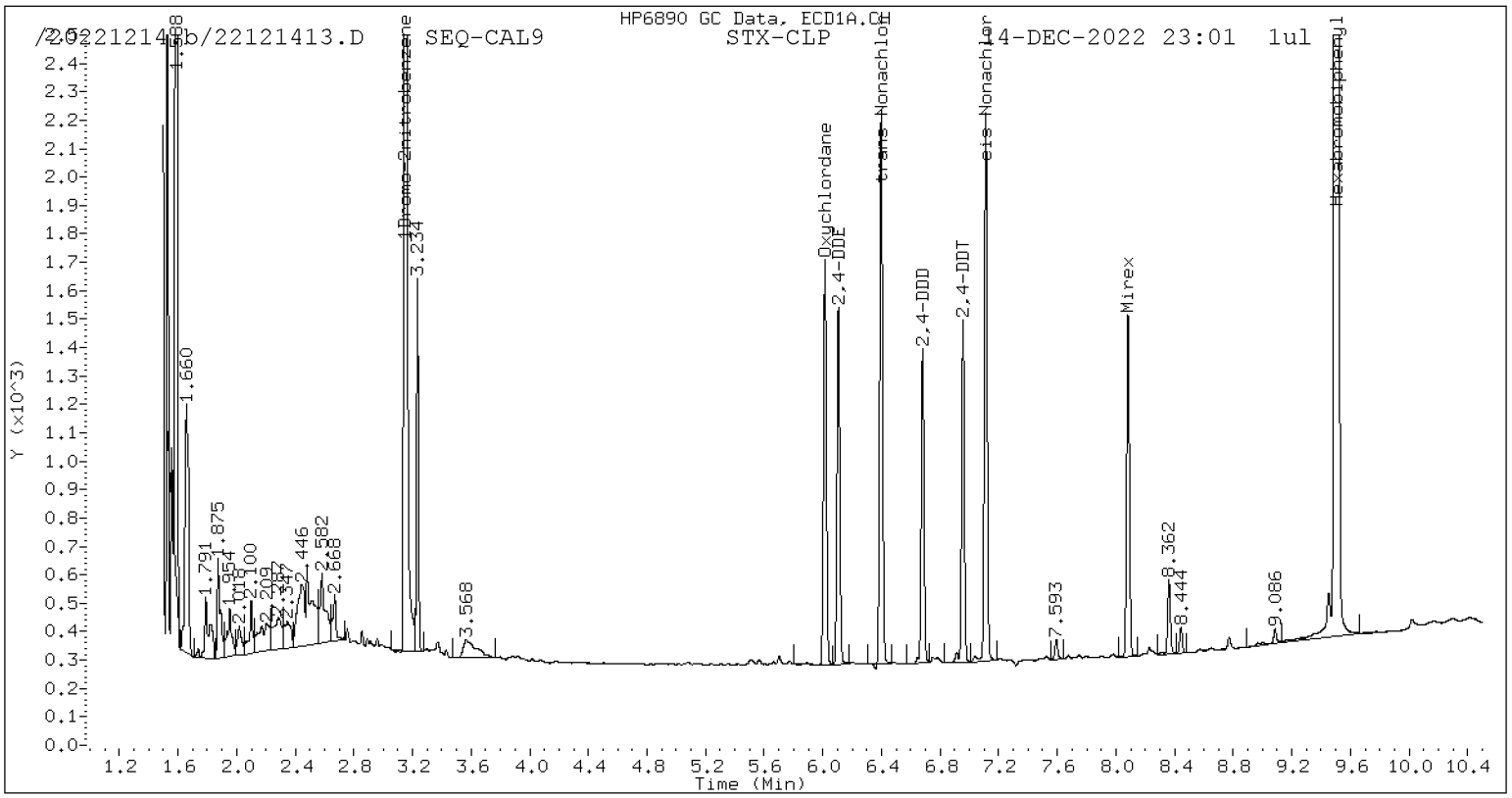
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	672507	-5.4
Hexabromobiphenyl	641833	615627	-4.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1020334	-3.6
Hexabromobiphenyl	797125	782734	-1.8

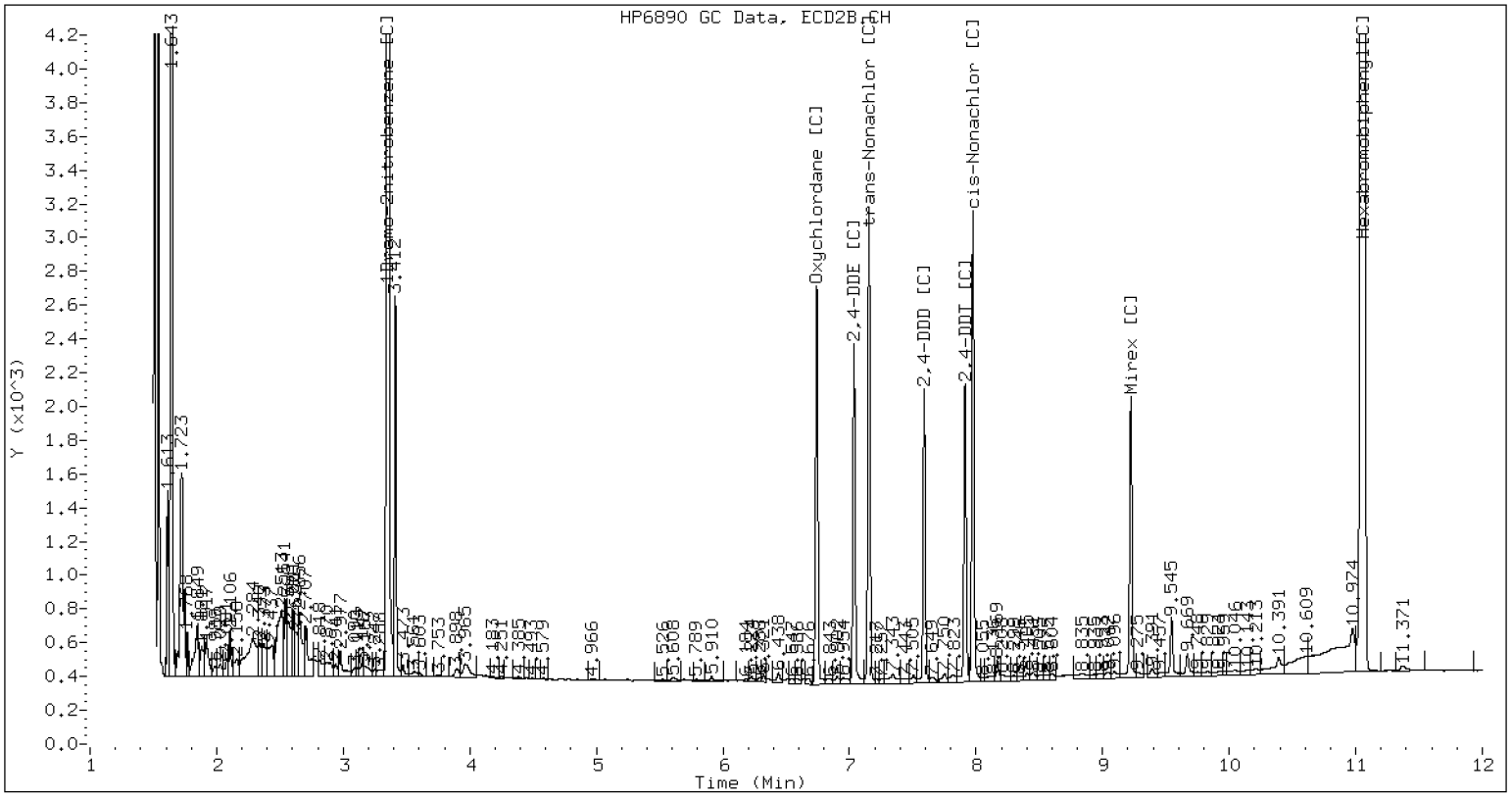
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121413.D SEQ-CAL9 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121413.D
Data file 2: /20221214.b/B20221214.b/22121413.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9
Client ID:
Injection Date: 14-DEC-2022 23:01
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121414.D
Data file 2: /20221214.b/B20221214.b/22121414.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALA
Client ID:
Injection Date: 14-DEC-2022 23:19
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	-0.000	82473	6.741	-0.001	127500	10.63	10.63	0.0	Oxychlordane
6.106	-0.000	69109	7.035	-0.001	108440	10.79	11.04	2.3	2,4-DDE
6.398	0.000	108386	7.154	-0.001	157712	10.68	10.60	0.7	trans-Nonachlor
6.681	0.000	60517	7.590	-0.000	91420	10.62	10.74	1.2	2,4-DDD
6.956	-0.001	65300	7.913	0.000	91498	10.61	10.44	1.6	2,4-DDT
7.111	-0.001	104247	7.975	-0.000	146224	10.55	10.34	2.0	cis-Nonachlor
8.082	-0.000	65614	9.222	-0.000	84337	10.67	10.25	4.0	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

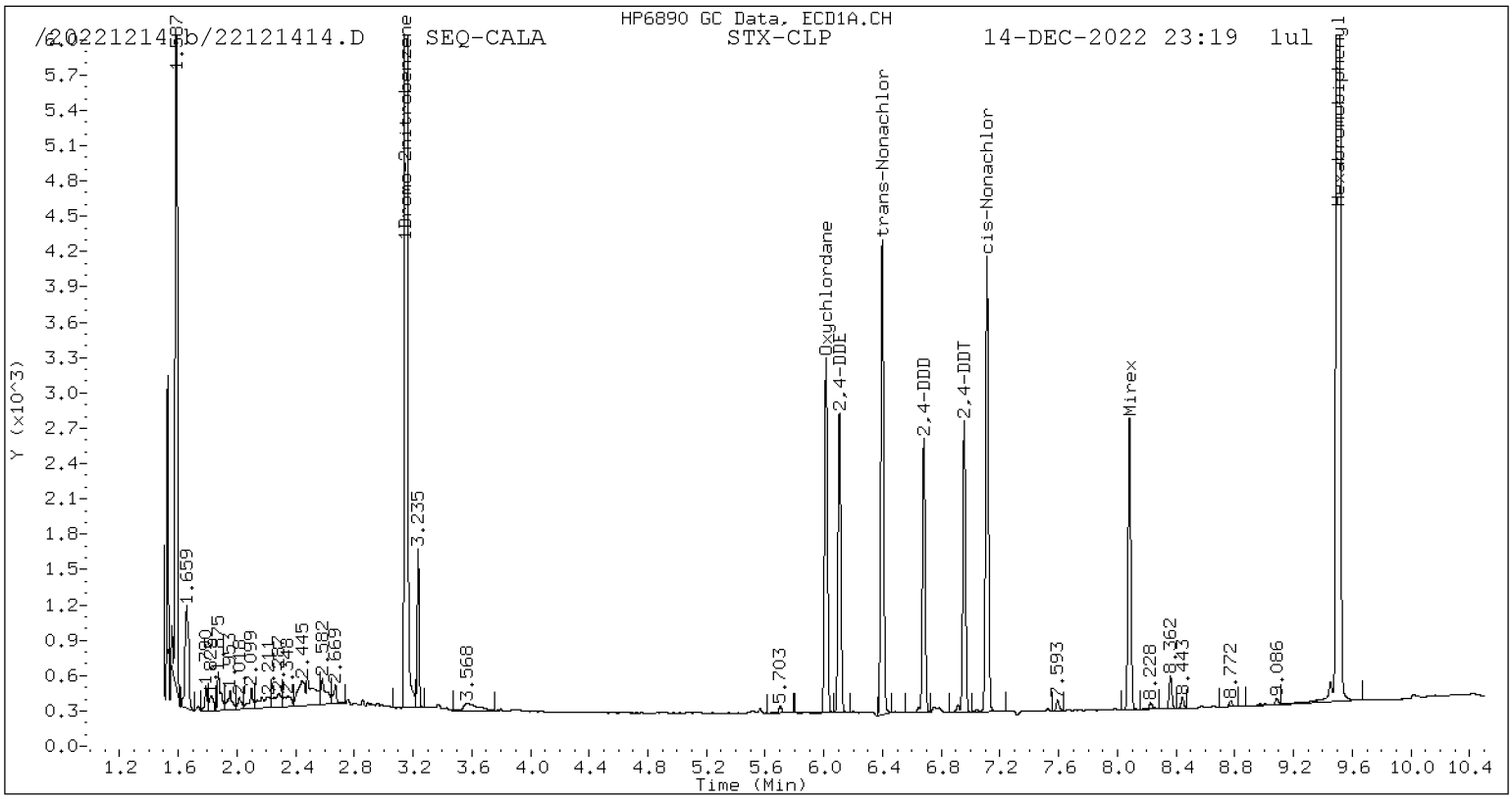
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	712122	0.2
Hexabromobiphenyl	641833	652595	1.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1077341	1.7
Hexabromobiphenyl	797125	831365	4.3

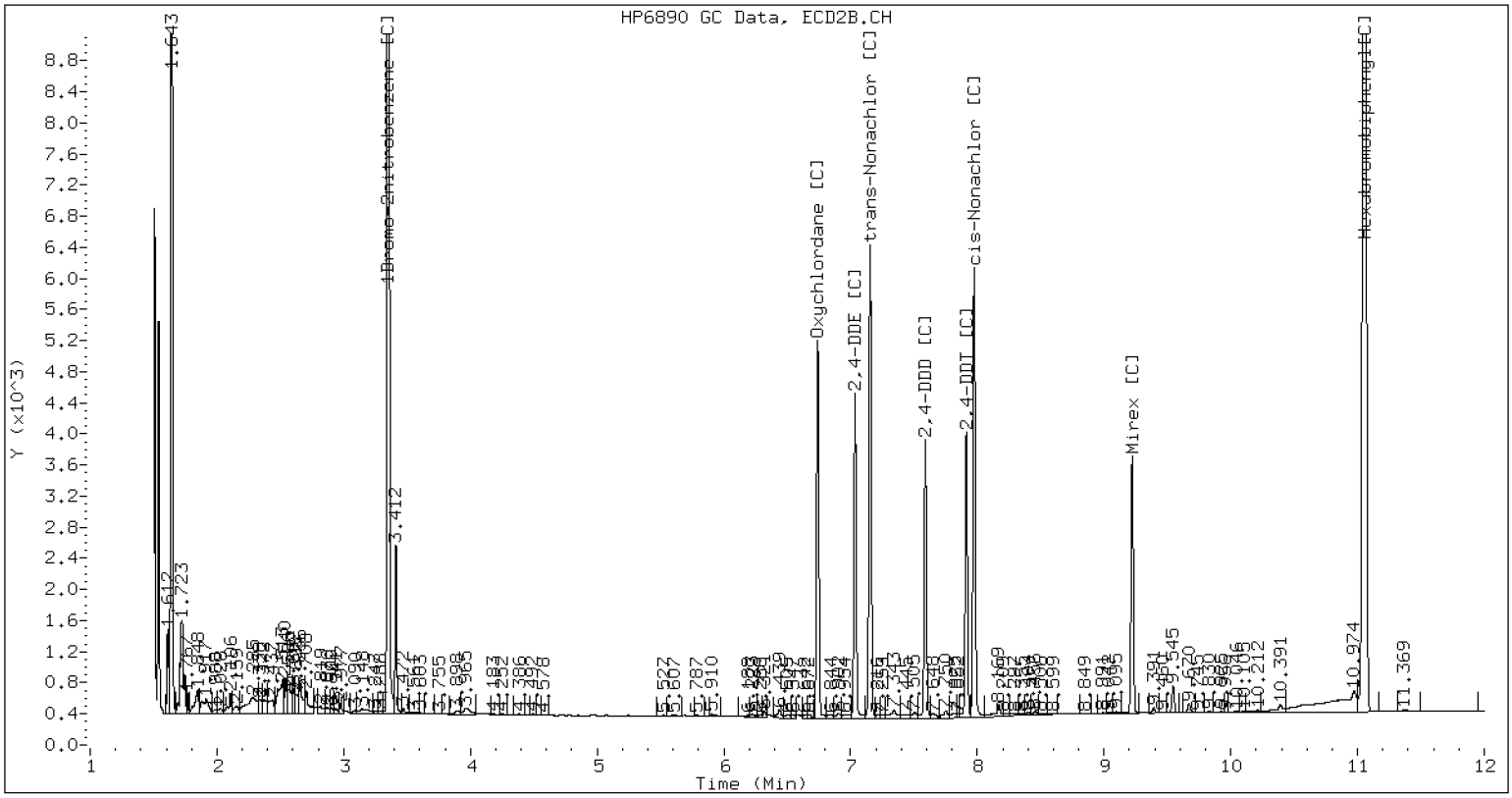
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121414.D SEQ-CALA CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121414.D
Data file 2: /20221214.b/B20221214.b/22121414.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALA
Client ID:
Injection Date: 14-DEC-2022 23:19
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121415.D
Data file 2: /20221214.b/B20221214.b/22121415.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALB
Client ID:
Injection Date: 14-DEC-2022 23:36
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.015	0.001	154379	6.741	-0.000	238017	20.80	20.28	2.5	Oxychlordane
6.106	-0.000	128483	7.036	-0.000	195807	20.97	20.37	2.9	2,4-DDE
6.398	0.000	200622	7.155	-0.000	289952	20.66	20.28	1.9	trans-Nonachlor
6.681	0.000	113972	7.591	0.000	165245	20.90	20.21	3.4	2,4-DDD
6.956	-0.001	122412	7.913	0.000	169814	20.78	20.17	3.0	2,4-DDT
7.112	-0.000	194165	7.975	-0.000	274910	20.54	20.23	1.5	cis-Nonachlor
8.082	-0.000	119271	9.223	0.000	158702	20.28	20.08	1.0	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

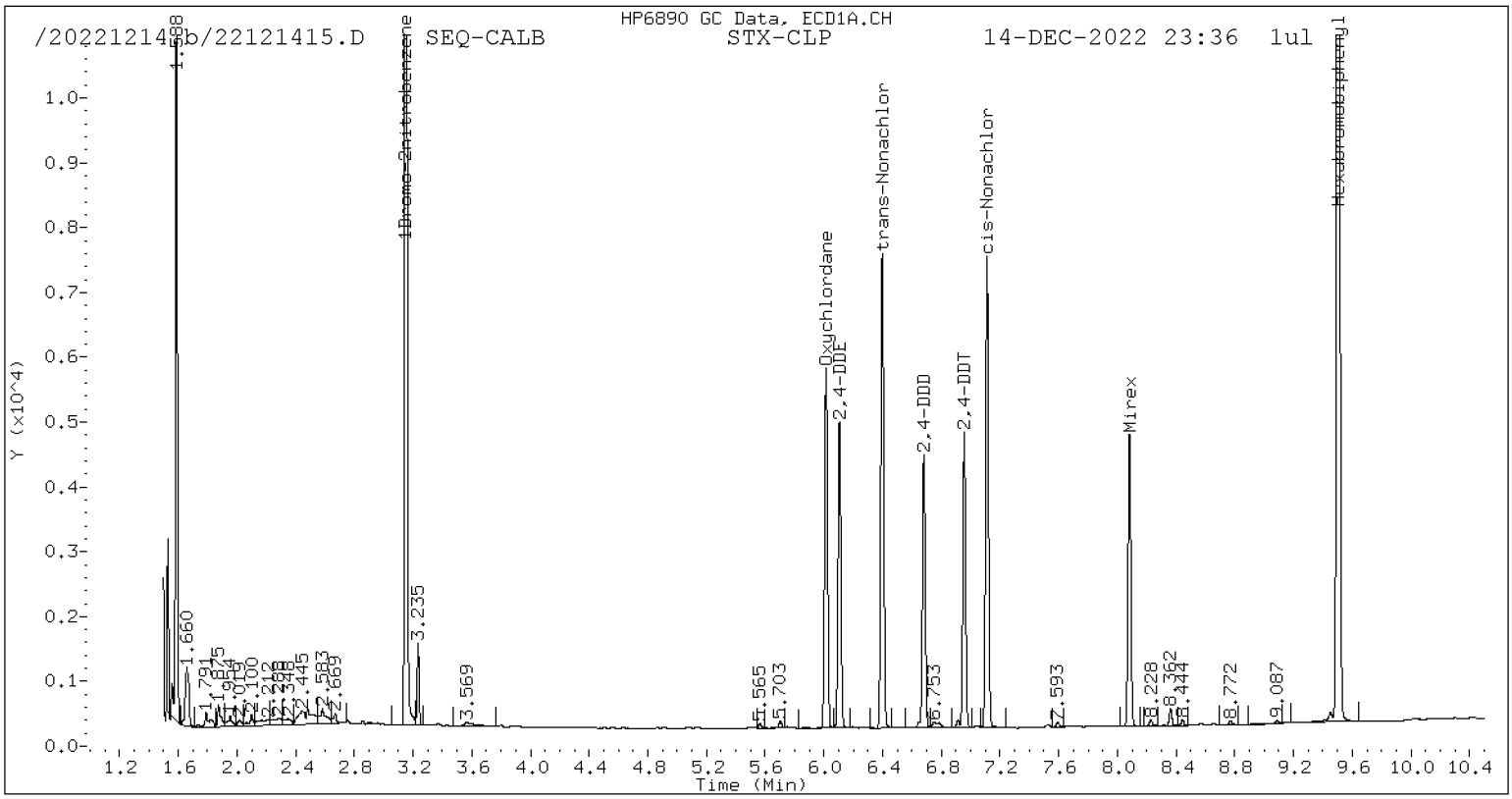
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	693450	-2.4
Hexabromobiphenyl	641833	624334	-2.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1053959	-0.5
Hexabromobiphenyl	797125	798882	0.2

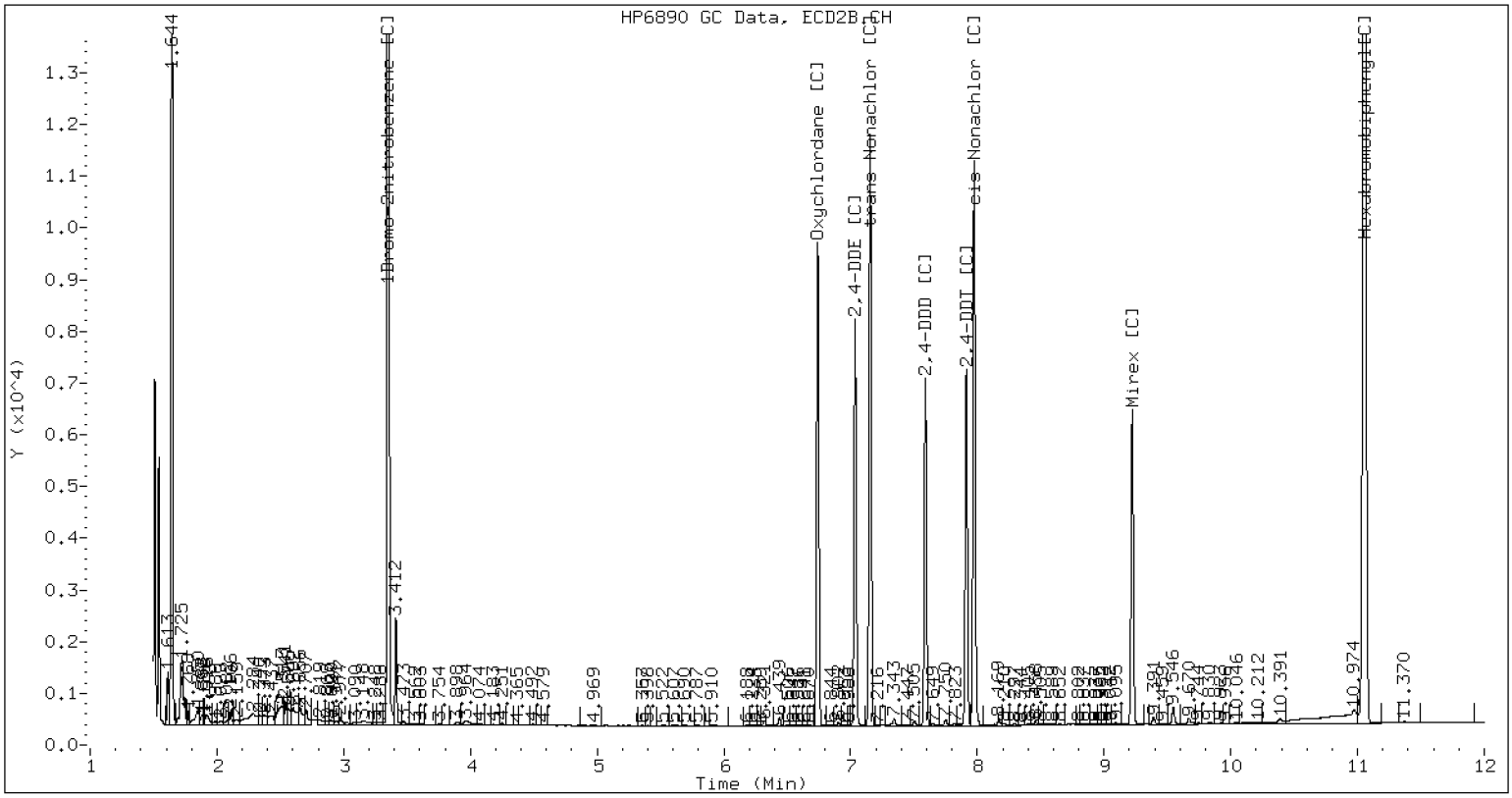
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121415.D SEQ-CALB CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121415.D
Data file 2: /20221214.b/B20221214.b/22121415.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALB
Client ID:
Injection Date: 14-DEC-2022 23:36
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121416.D
Data file 2: /20221214.b/B20221214.b/22121416.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALC
Client ID:
Injection Date: 14-DEC-2022 23:54
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	0.000	292499	6.741	-0.000	460731	40.08	40.26	0.4	Oxychlordane
6.106	0.000	242066	7.036	-0.000	372996	40.18	39.80	0.9	2,4-DDE
6.397	0.000	383329	7.154	-0.001	567971	40.16	40.45	0.7	trans-Nonachlor
6.681	0.000	216474	7.590	-0.000	320311	40.39	39.88	1.3	2,4-DDD
6.957	0.000	233738	7.913	-0.000	332906	40.36	40.25	0.3	2,4-DDT
7.112	0.000	373705	7.975	-0.000	538334	40.21	40.33	0.3	cis-Nonachlor
8.082	0.000	229604	9.222	-0.000	299228	39.71	38.54	3.0	Mirex
3.800	-0.028	1151	----			0.13	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

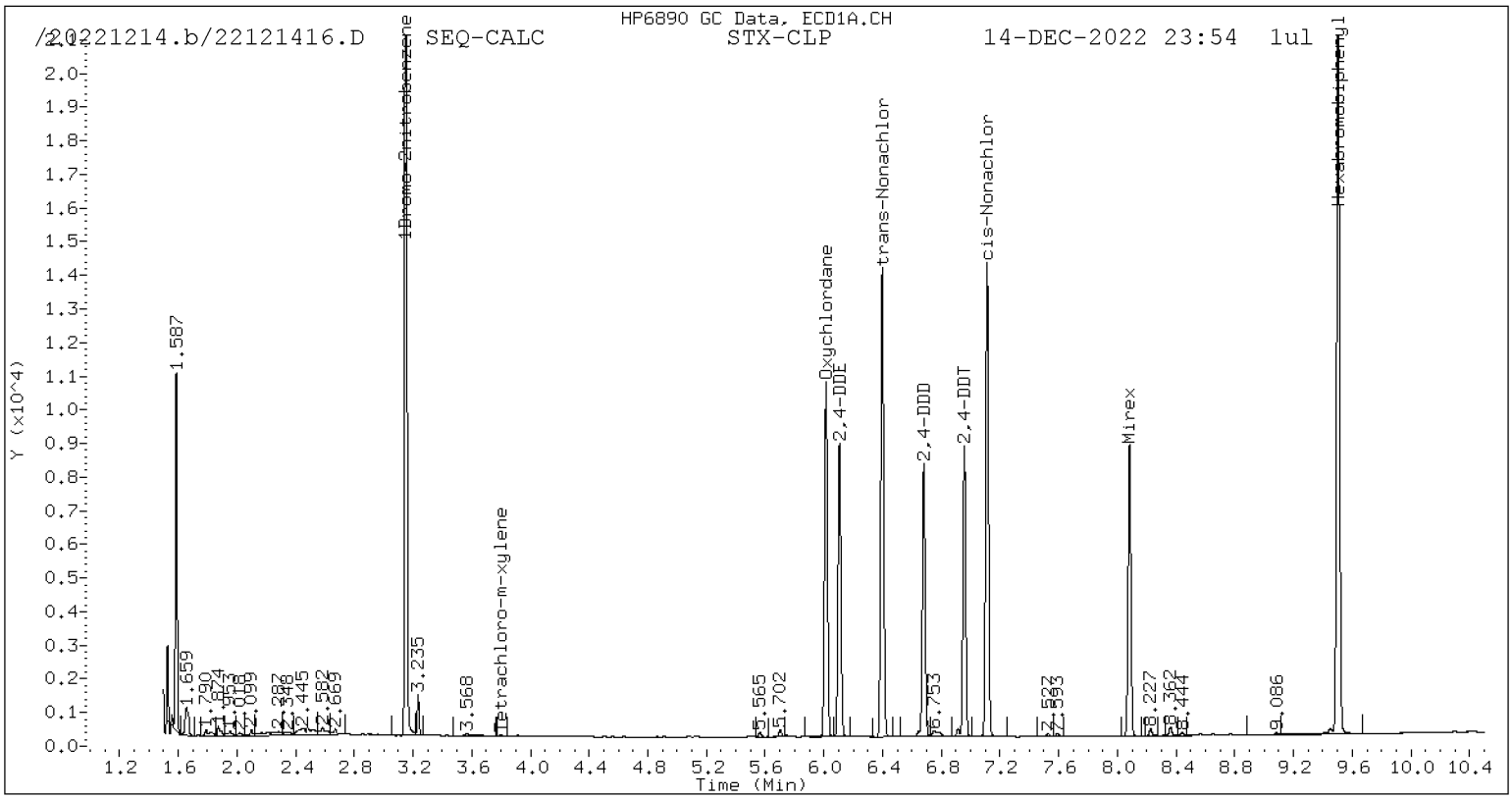
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	674573	-5.1
Hexabromobiphenyl	641833	613787	-4.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1027697	-2.9
Hexabromobiphenyl	797125	784673	-1.6

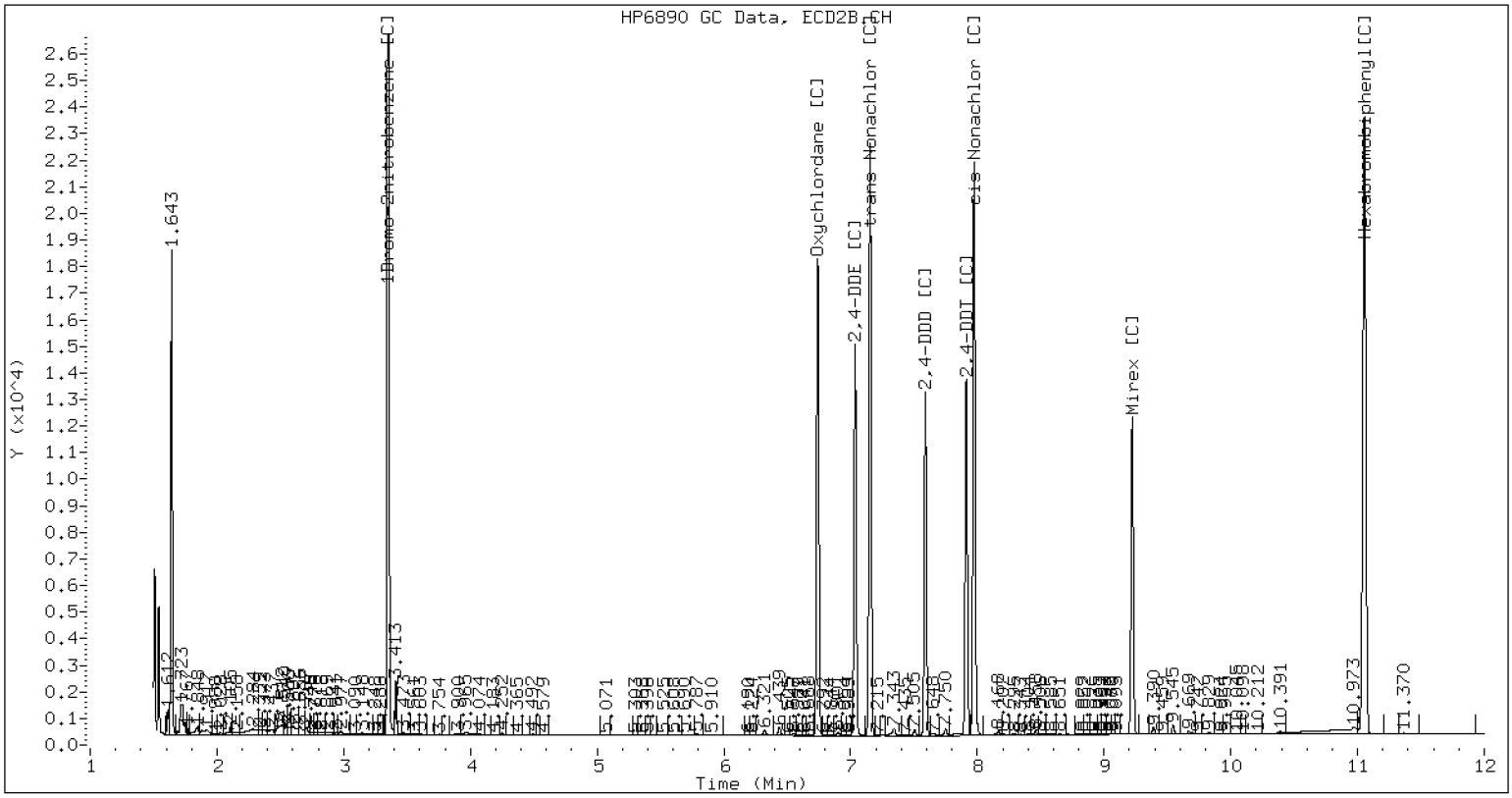
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121416.D SEQ-CALC CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121416.D
Data file 2: /20221214.b/B20221214.b/22121416.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALC
Client ID:
Injection Date: 14-DEC-2022 23:54
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121417.D
Data file 2: /20221214.b/B20221214.b/22121417.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALD
Client ID:
Injection Date: 15-DEC-2022 00:12
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	-0.000	544254	6.741	-0.000	856443	75.85	75.73	0.2	Oxychlordane
6.106	-0.000	438313	7.036	-0.000	677072	73.99	73.11	1.2	2,4-DDE
6.397	-0.000	704675	7.155	0.000	1067899	75.09	76.94	2.4	trans-Nonachlor
6.681	0.000	393654	7.591	0.000	594311	74.70	74.86	0.2	2,4-DDD
6.956	-0.001	430636	7.914	0.000	618740	75.63	75.68	0.1	2,4-DDT
7.112	-0.000	688257	7.975	0.000	1018624	75.31	77.19	2.5	cis-Nonachlor
8.082	-0.001	426177	9.223	0.000	573947	74.97	74.78	0.2	Mirex
3.800	-0.028	2109	----			0.23	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

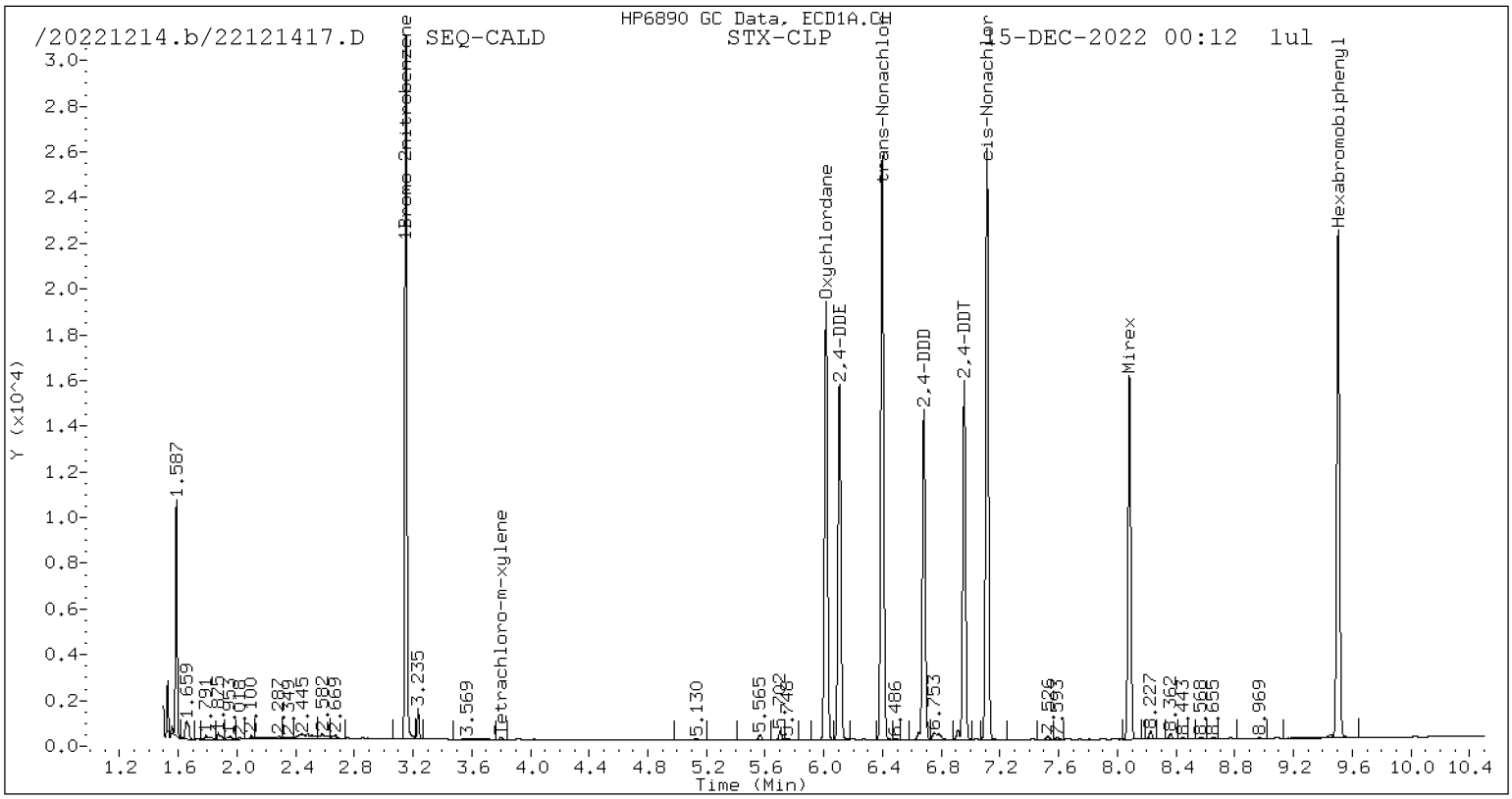
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	664375	-6.5
Hexabromobiphenyl	641833	603504	-6.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1015544	-4.1
Hexabromobiphenyl	797125	775630	-2.7

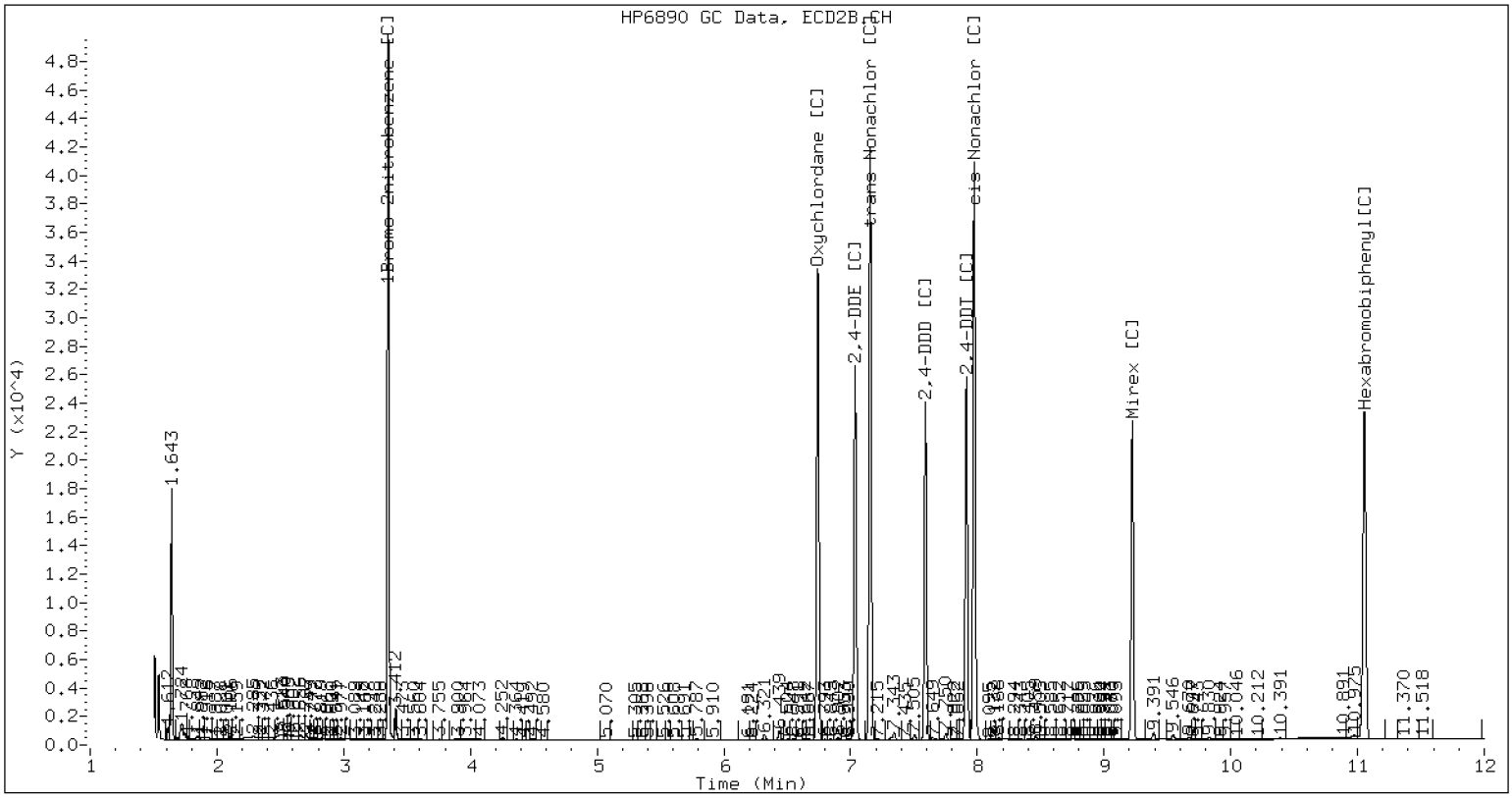
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121417.D SEQ-CALD CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121417.D
Data file 2: /20221214.b/B20221214.b/22121417.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALD
Client ID:
Injection Date: 15-DEC-2022 00:12
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121418.D
Data file 2: /20221214.b/B20221214.b/22121418.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALE
Client ID:
Injection Date: 15-DEC-2022 00:30
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	0.000	1020828	6.741	0.000	1630330	140.48	142.04	1.1	Oxychlordane
6.106	-0.000	801828	7.036	0.000	1240933	133.65	132.03	1.2	2,4-DDE
6.397	0.000	1327091	7.155	0.000	2047915	139.63	146.04	4.5	trans-Nonachlor
6.680	-0.000	733651	7.591	0.000	1118552	137.46	139.45	1.4	2,4-DDD
6.956	-0.001	794021	7.913	0.000	1163676	137.69	140.88	2.3	2,4-DDT
7.112	-0.000	1301975	7.975	0.000	1956215	140.68	146.73	4.2	cis-Nonachlor
8.082	-0.001	815059	9.223	0.000	1108848	141.57	143.01	1.0	Mirex
3.800	-0.028	3997	----			0.43	0.00	---	Tetrachloro-m-xylene
----			10.471	0.004	3393	0.00	0.39	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

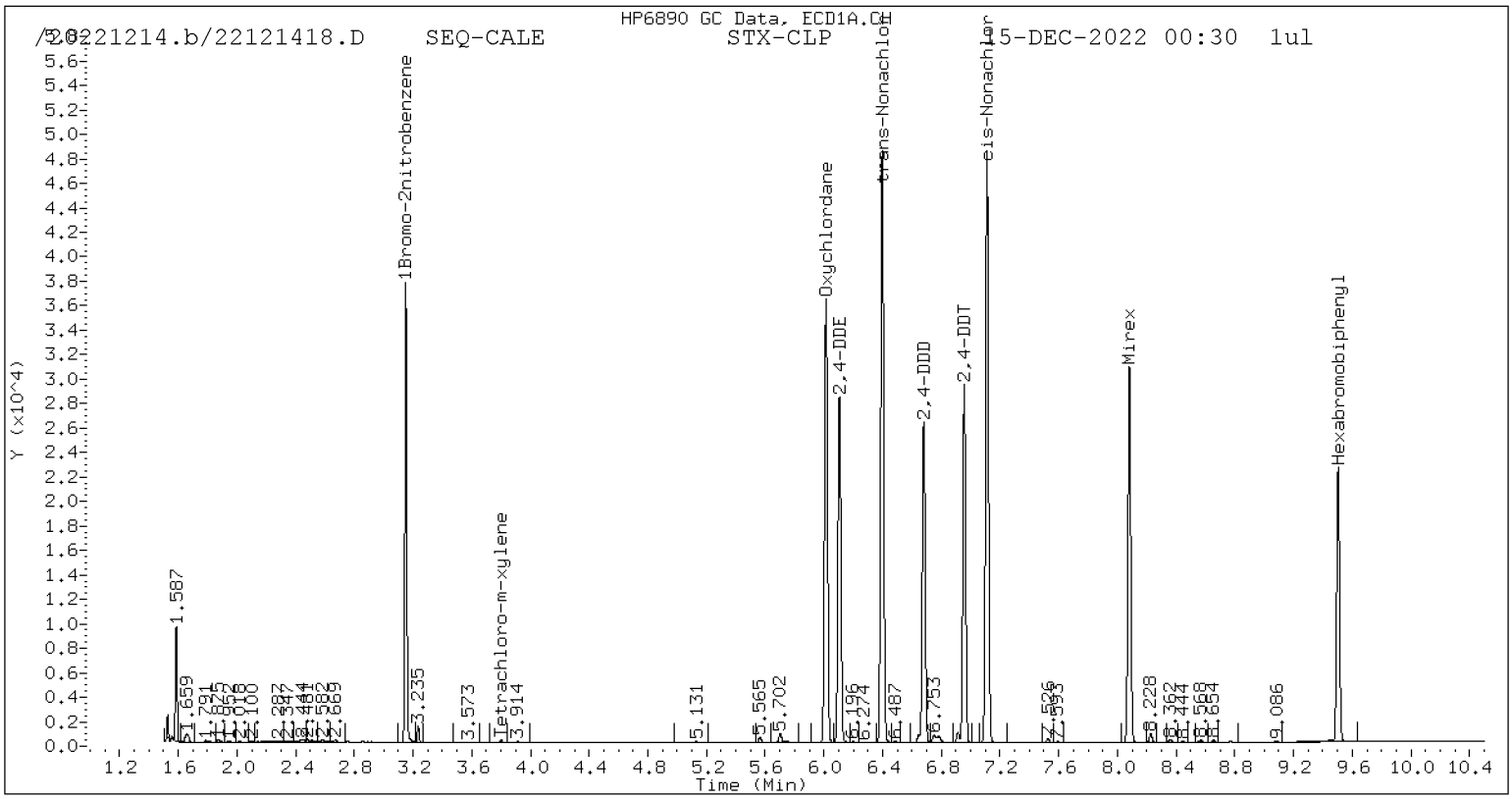
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	675789	-4.9
Hexabromobiphenyl	641833	611199	-4.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1030648	-2.7
Hexabromobiphenyl	797125	783631	-1.7

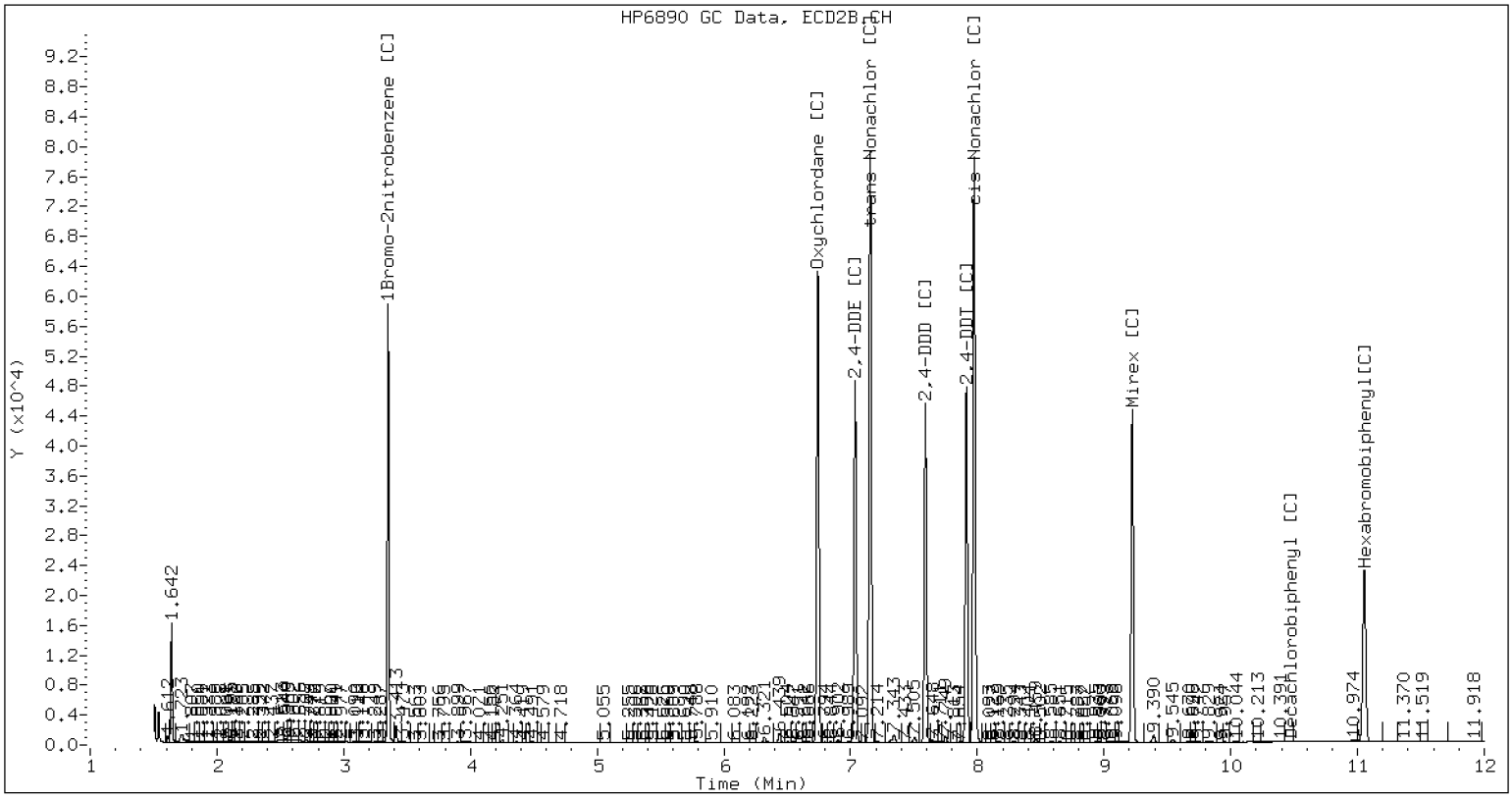
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121418.D SEQ-CALE CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121418.D
Data file 2: /20221214.b/B20221214.b/22121418.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALE
Client ID:
Injection Date: 15-DEC-2022 00:30
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121419.D
Data file 2: /20221214.b/B20221214.b/22121419.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV1
Client ID:
Injection Date: 15-DEC-2022 00:48
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	0.000	643235	4.860	-0.000	1047709	49.66	51.22	3.1	alpha-BHC
4.726	-0.000	242617	5.337	0.000	386388	48.66	49.69	2.1	beta-BHC
4.909	0.000	554797	5.692	0.001	897343	52.41	53.26	1.6	delta-BHC
4.646	0.001	573983	5.258	0.000	915596	51.11	52.75	3.1	gamma-BHC (Lindane)
5.130	0.000	495138	5.788	0.001	804002	49.55	51.13	3.1	Heptachlor
5.454	0.000	526615	6.191	0.000	842909	47.03	46.95	0.2	Aldrin
6.130	0.000	469481	6.846	0.000	724932	48.36	48.83	1.0	Heptachlor epoxide b
6.573	0.000	423102	7.289	-0.000	632890	47.49	48.37	1.8	Endosulfan I
6.832	0.000	478299	7.583	0.000	724854	49.97	50.14	0.3	Dieldrin
6.489	0.000	448741	7.371	0.000	670346	50.49	50.56	0.1	4,4'-DDE
7.082	0.001	396143	7.907	0.000	551004	50.36	50.73	0.7	Endrin
7.318	0.001	350431	8.118	0.001	537104	49.49	48.24	2.6	Endosulfan II
7.136	0.001	355688	7.977	0.001	525927	50.19	49.78	0.8	4,4'-DDD
8.180	0.000	347949	8.716	0.001	502438	51.75	51.39	0.7	Endosulfan sulfate
7.428	0.001	368644	8.295	-0.000	524685	51.48	51.45	0.1	4,4'-DDT
7.913	0.001	174306	8.935	-0.001	238791	54.93	52.91	3.7	Methoxychlor
8.454	0.000	394474	9.240	-0.000	540431	51.21	51.18	0.1	Endrin ketone
7.746	0.001	316262	8.448	0.000	449269	56.00	57.20	2.1	Endrin aldehyde
6.271	0.000	490842	7.056	0.000	748350	49.78	50.55	1.5	trans-Chlordane
6.417	0.001	469513	7.216	0.000	700871	47.47	48.39	1.9	cis-Chlordane
----			2.512	0.011	11364	0.00	0.59	---	Hexachlorobutadiene
----			4.719	0.001	634	0.00	0.03	---	Hexachlorobenzene
----			4.220	-0.000	1724	0.00	0.12	---	Tetrachloro-m-xylene
----			10.468	0.001	643	0.00	0.08	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

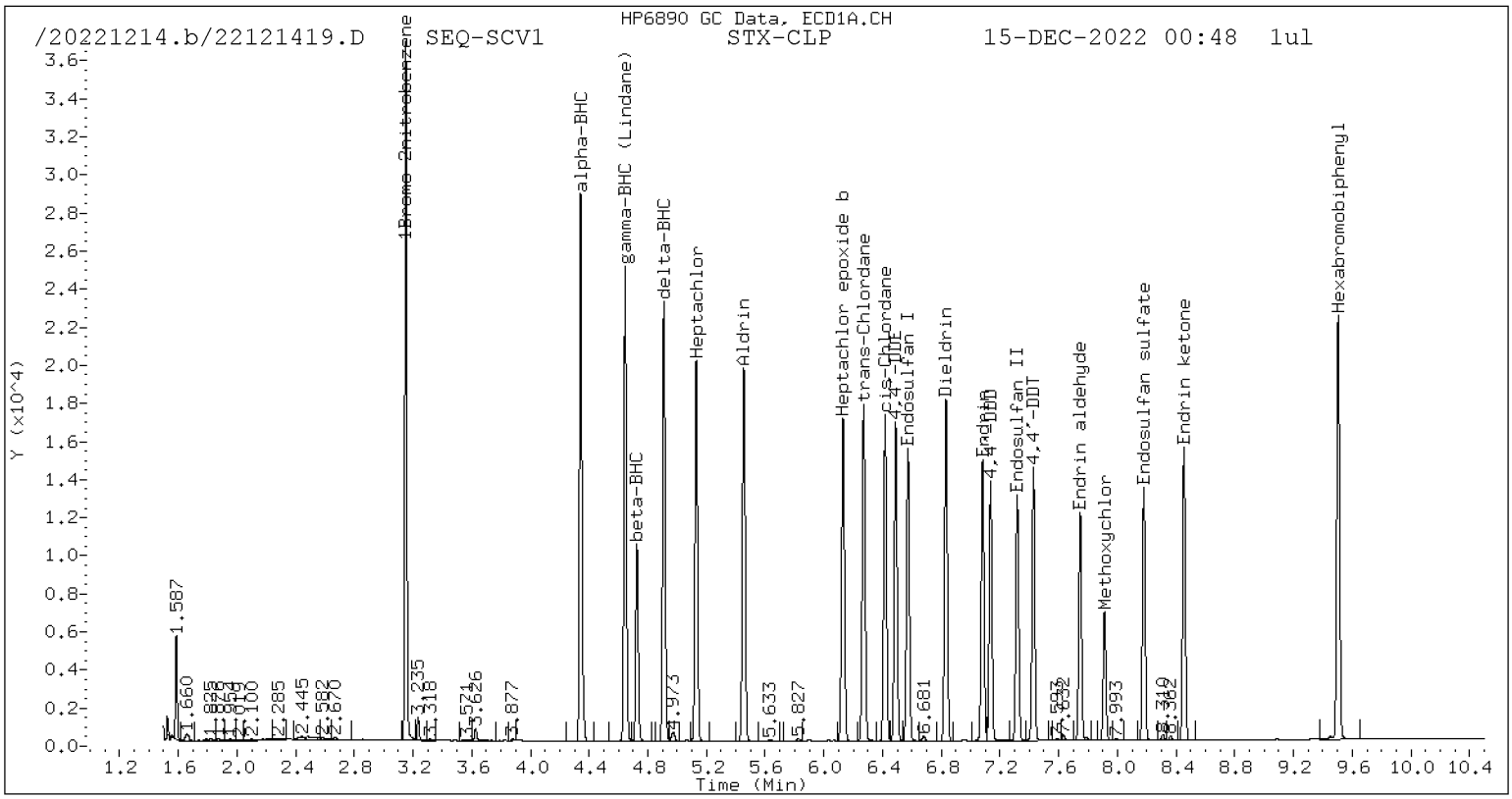
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	672755	-5.3
Hexabromobiphenyl	641833	599983	-6.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1020655	-3.6
Hexabromobiphenyl	797125	763949	-4.2

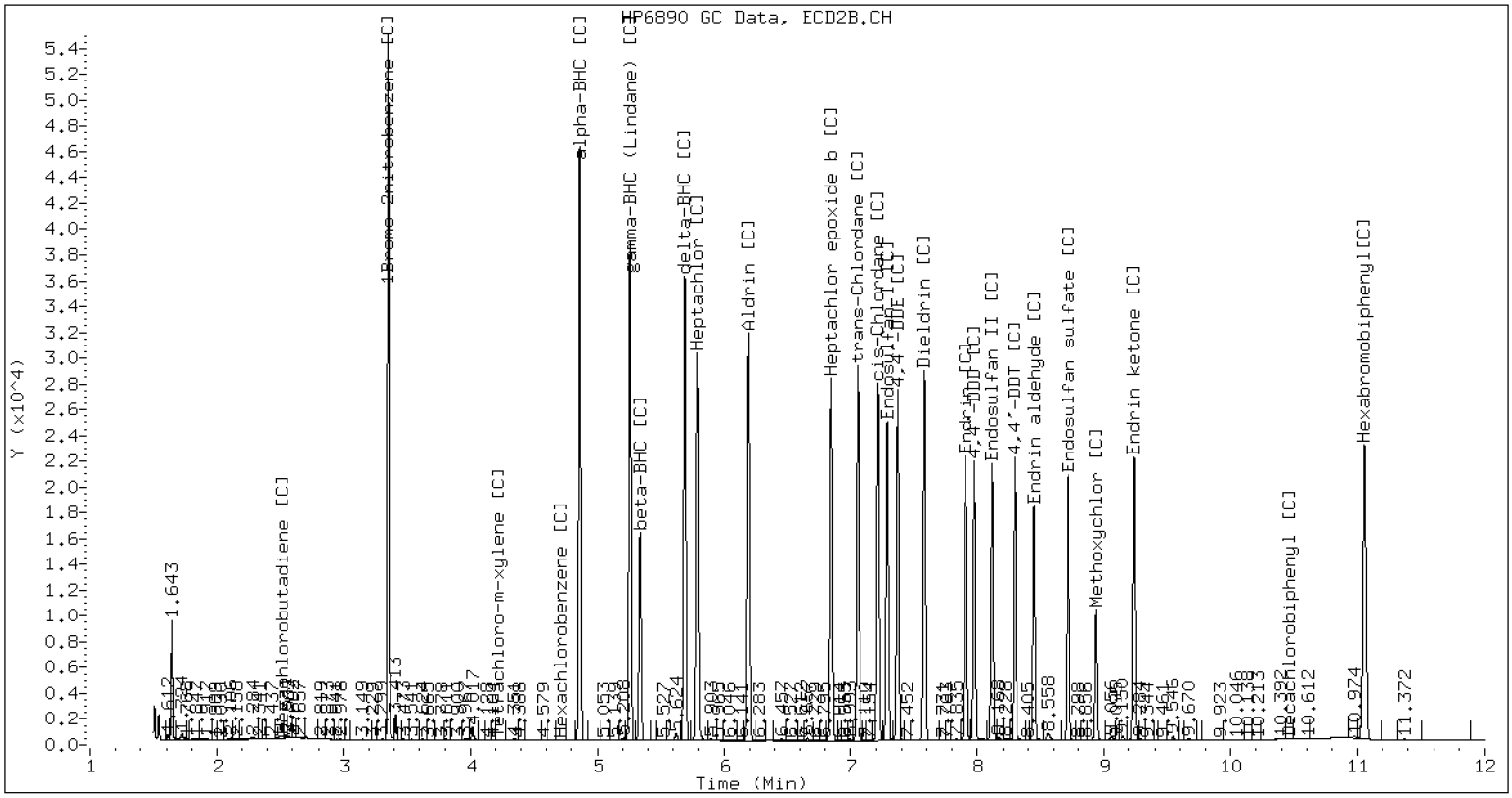
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121419.D SEQ-SCV1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121419.D
Data file 2: /20221214.b/B20221214.b/22121419.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV1
Client ID:
Injection Date: 15-DEC-2022 00:48
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121420.D
Data file 2: /20221214.b/B20221214.b/22121420.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV2
Client ID:
Injection Date: 15-DEC-2022 01:06
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	-0.000	374516	6.741	0.000	591348	51.08	50.07	2.0	Oxychlordane
6.106	-0.000	261097	7.036	-0.000	403824	43.13	41.76	3.2	2,4-DDE
6.397	-0.000	444133	7.155	-0.000	657777	46.31	45.91	0.9	trans-Nonachlor
6.681	0.000	222534	7.591	0.000	334706	41.32	40.84	1.2	2,4-DDD
6.956	-0.001	262722	7.914	0.000	382016	45.15	45.26	0.2	2,4-DDT
7.111	-0.001	455894	7.975	0.000	655718	48.82	48.13	1.4	cis-Nonachlor
8.081	-0.001	256593	9.223	0.000	343173	44.17	43.31	2.0	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

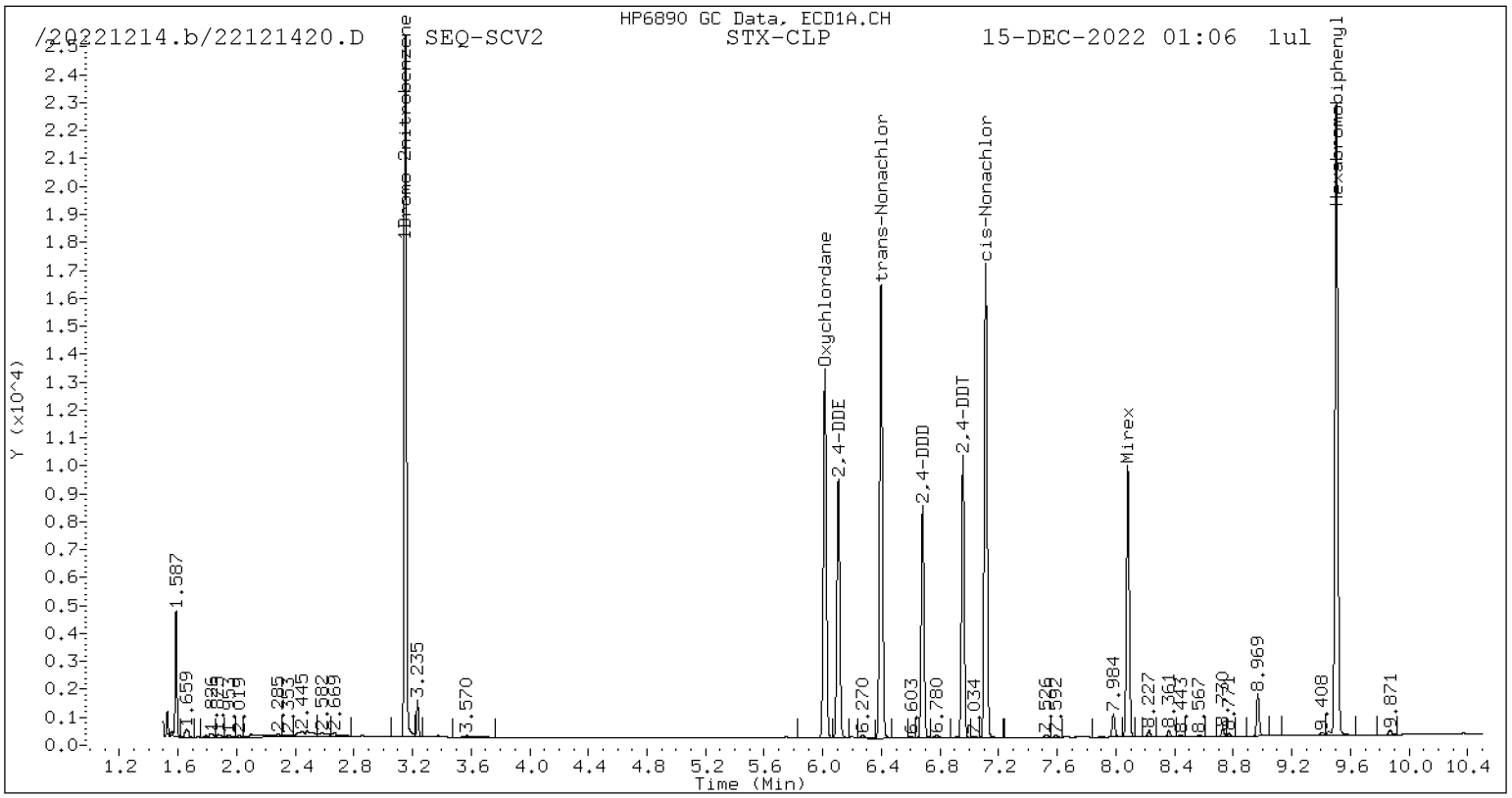
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	687052	-3.3
Hexabromobiphenyl	641833	616730	-3.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1060438	0.2
Hexabromobiphenyl	797125	800740	0.5

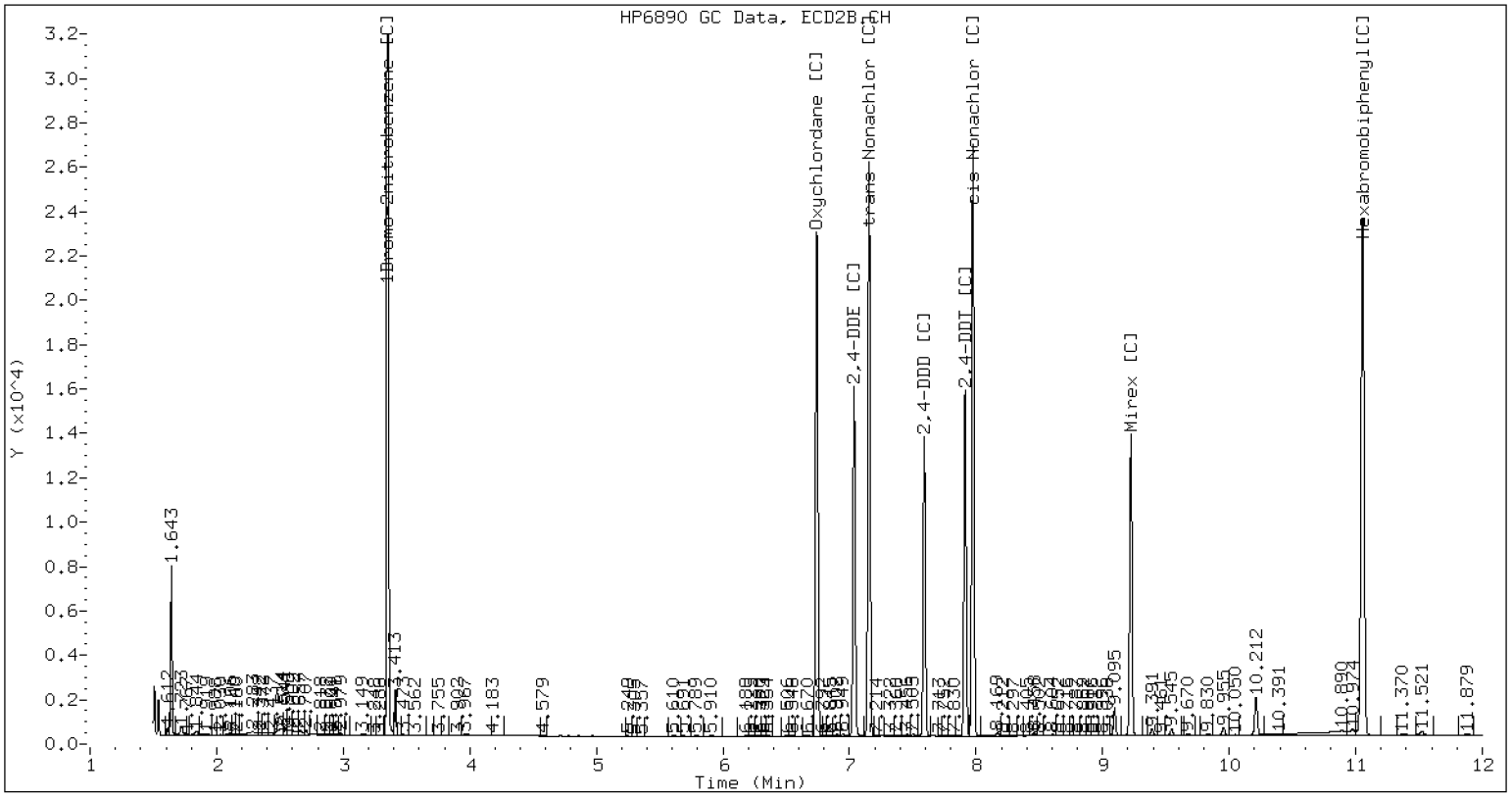
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121420.D SEQ-SCV2 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121420.D
Data file 2: /20221214.b/B20221214.b/22121420.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV2
Client ID:
Injection Date: 15-DEC-2022 01:06
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121421.D
Data file 2: /20221214.b/B20221214.b/22121421.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1A
Client ID:
Injection Date: 15-DEC-2022 01:24
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			4.215	-0.006	361	0.00	0.02	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	601512	-15.4
Hexabromobiphenyl	641833	690103	7.5

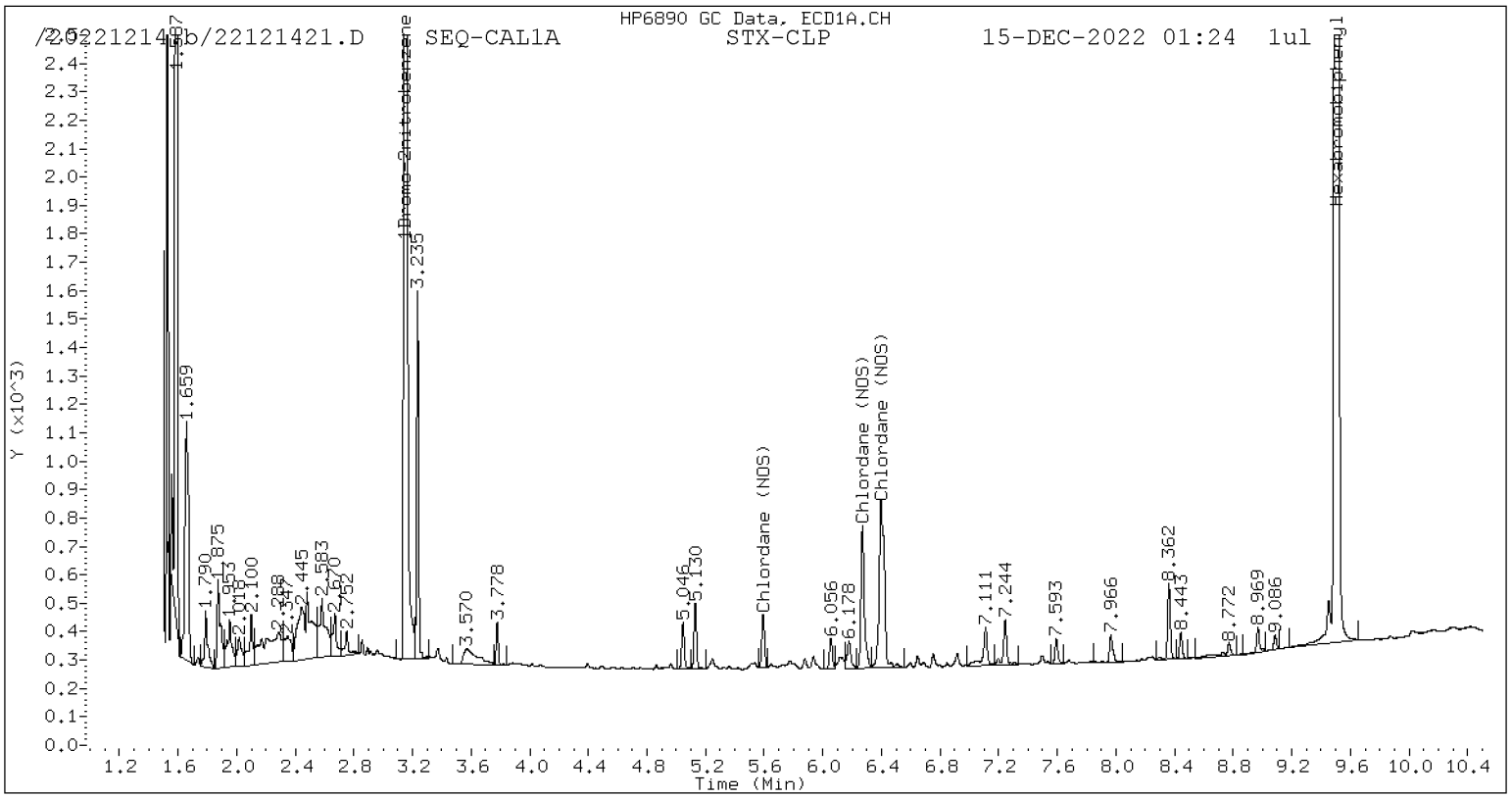
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	776759	-26.6
Hexabromobiphenyl	797125	1058847	32.8

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

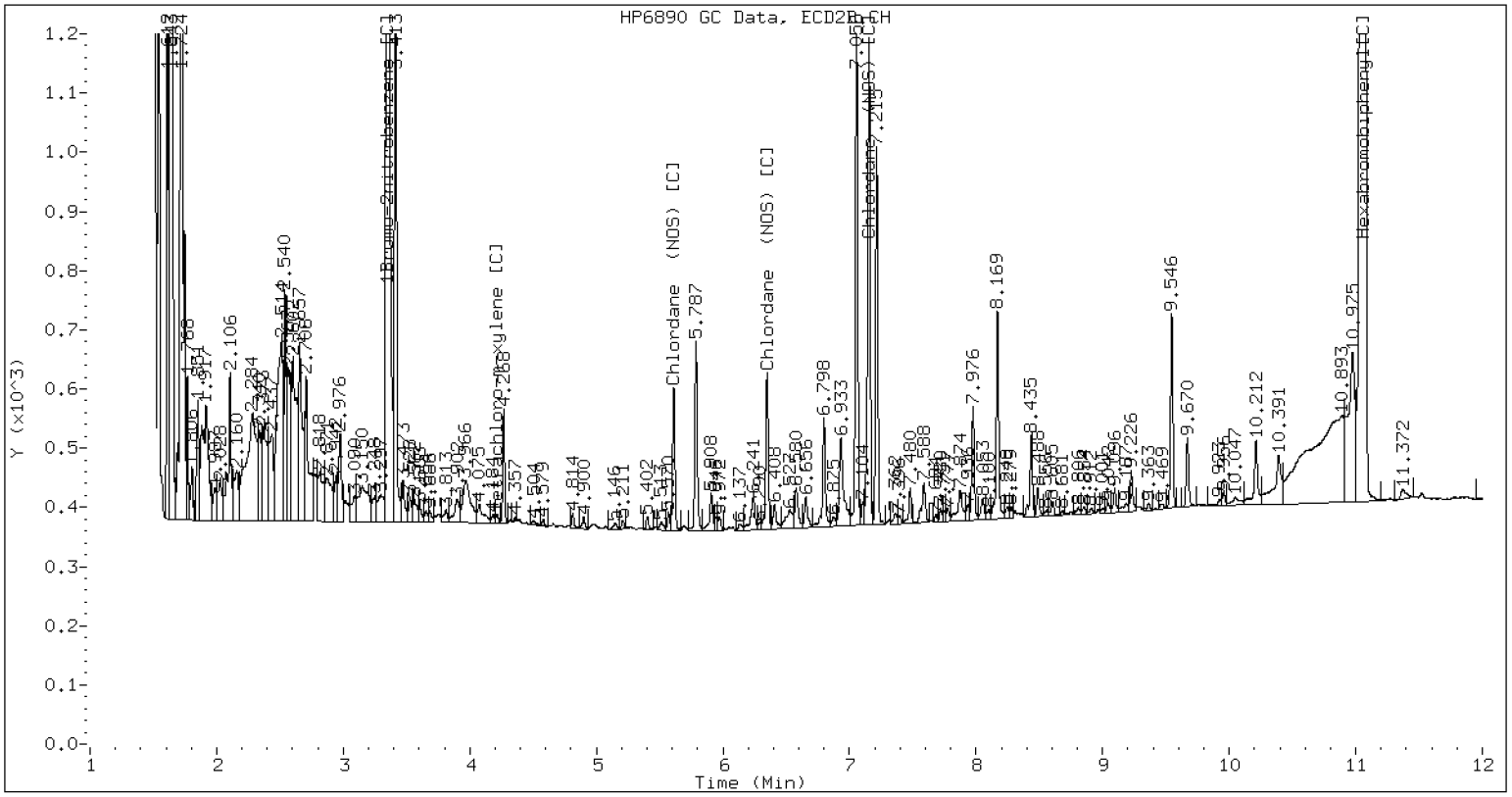
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	5.593	0.000	5054	13.1	1	5.612	-0.000	6415	12.8	
Chlordane (NOS)	2	6.271	-0.000	15913	12.4	2	6.349	-0.000	7689	13.7	
Chlordane (NOS)	3	6.399	0.000	29332	13.1	3	7.155	-0.001	23386	12.3	
Total STX-CLPAve (3 peaks): 12.882						Total CLP2Ave (3 peaks): 12.916				RPD = 0	
Corrected Ave (3 peaks): 12.882						Corrected Ave (3 peaks): 12.916				RPD = 0	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121421.D SEQ-CAL1A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121421.D
Data file 2: /20221214.b/B20221214.b/22121421.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1A
Client ID:
Injection Date: 15-DEC-2022 01:24
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121422.D
Data file 2: /20221214.b/B20221214.b/22121422.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2A
Client ID:
Injection Date: 15-DEC-2022 01:42
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	611280	-14.0
Hexabromobiphenyl	641833	704720	9.8

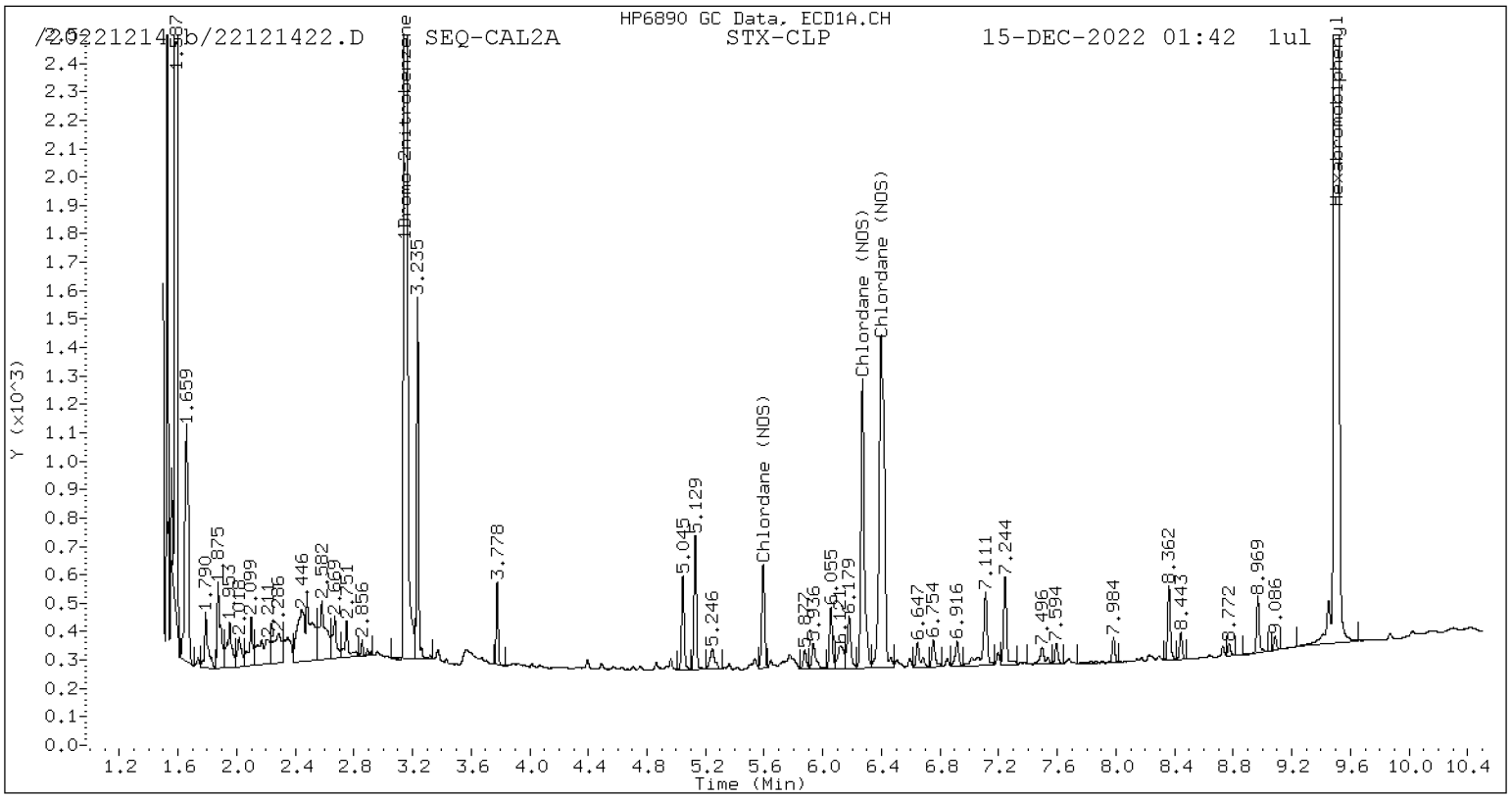
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	793365	-25.1
Hexabromobiphenyl	797125	1083049	35.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

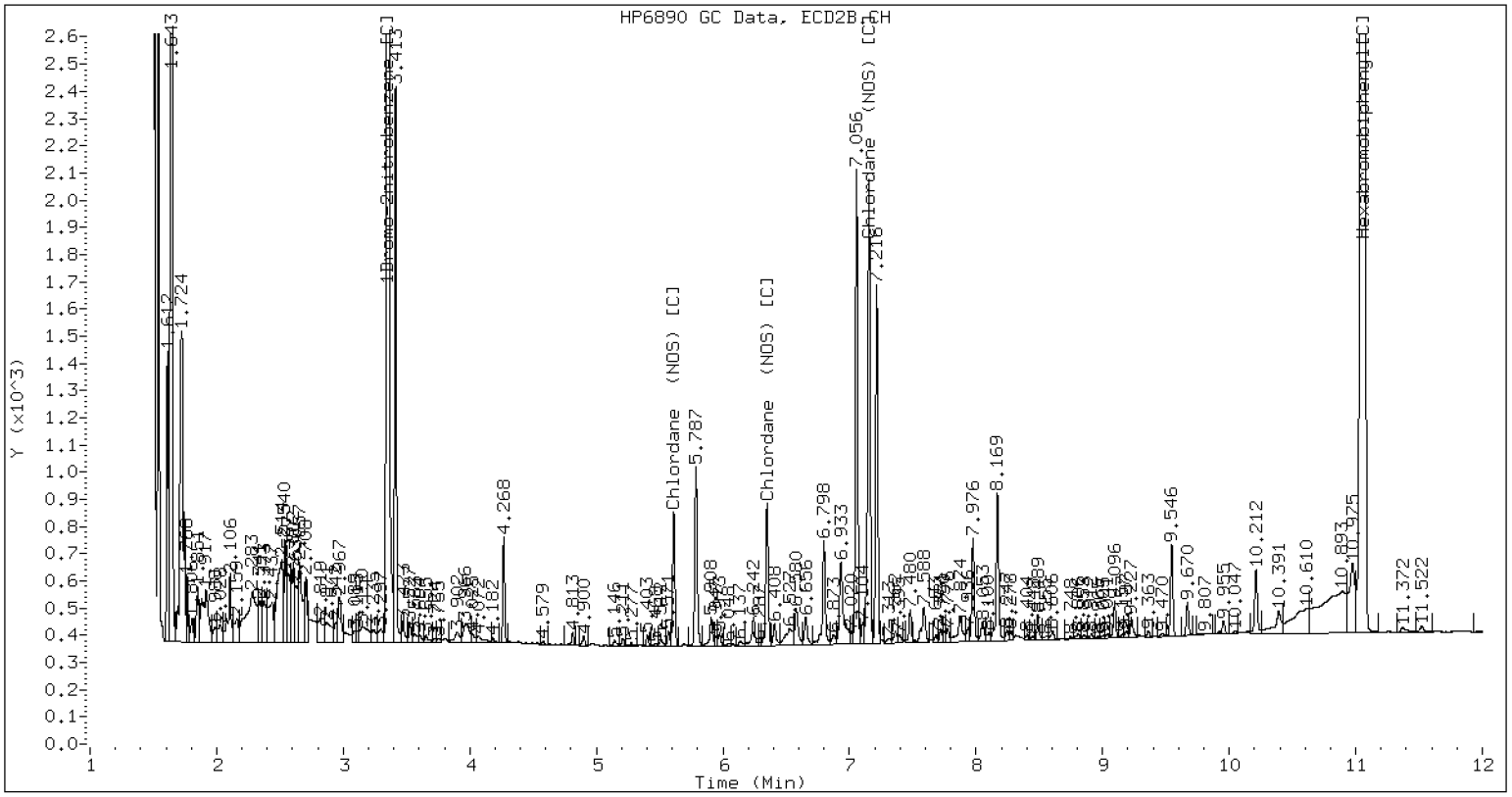
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	5.593	0.000	10046	25.5	1	5.612	-0.000	12488	24.4	
Chlordane (NOS)	2	6.271	-0.000	32715	25.0	2	6.348	-0.001	15023	26.1	
Chlordane (NOS)	3	6.399	0.000	58016	25.4	3	7.155	-0.000	48236	24.8	
Total STX-CLPAve (3 peaks): 25.309						Total CLP2Ave (3 peaks): 25.077				RPD = 1	
Corrected Ave (3 peaks): 25.309						Corrected Ave (3 peaks): 25.077				RPD = 1	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121422.D SEQ-CAL2A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121422.D
Data file 2: /20221214.b/B20221214.b/22121422.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2A
Client ID:
Injection Date: 15-DEC-2022 01:42
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121423.D
Data file 2: /20221214.b/B20221214.b/22121423.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3A
Client ID:
Injection Date: 15-DEC-2022 01:59
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	592438	-16.6
Hexabromobiphenyl	641833	685225	6.8

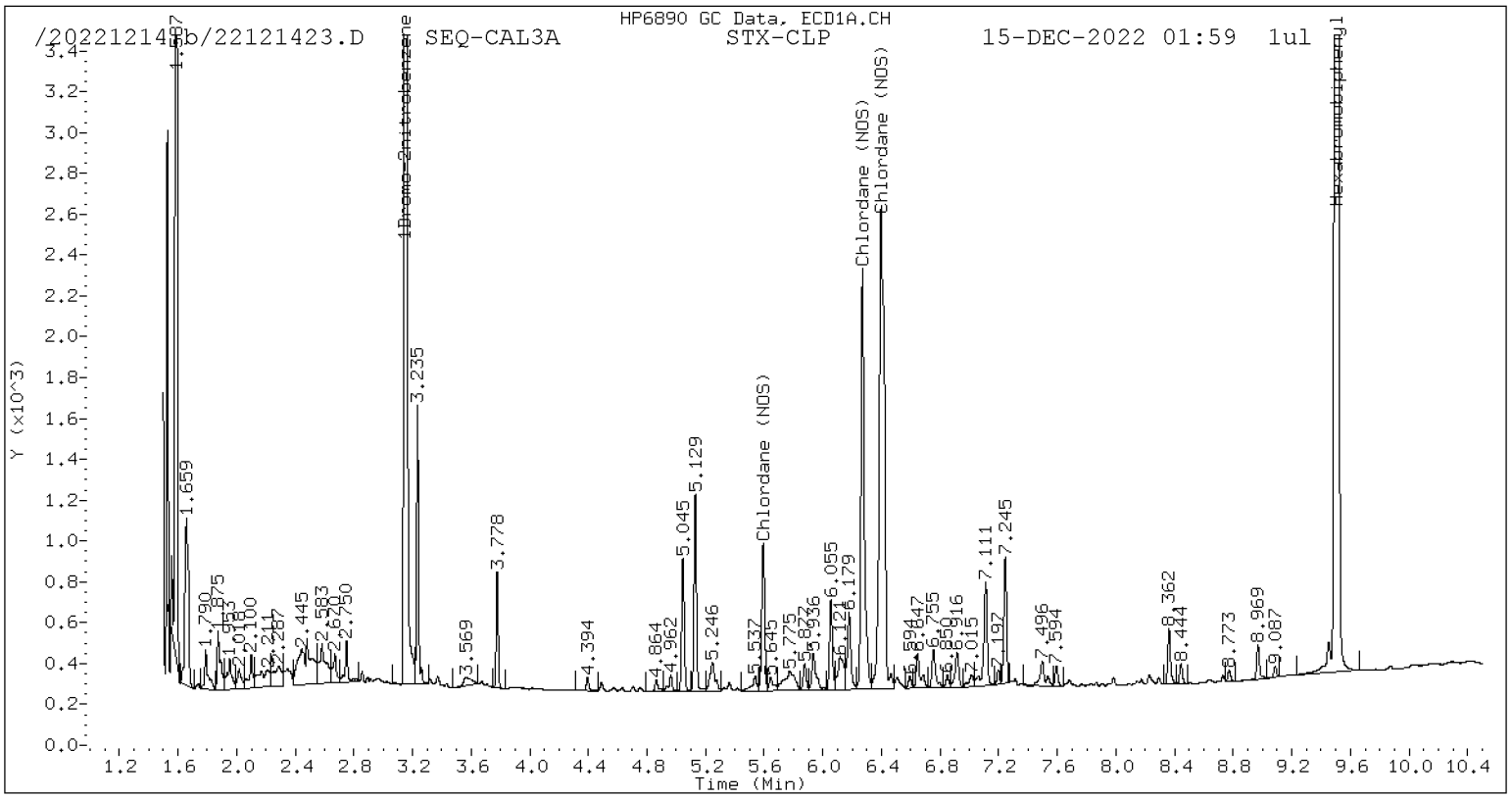
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	769029	-27.4
Hexabromobiphenyl	797125	1054742	32.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

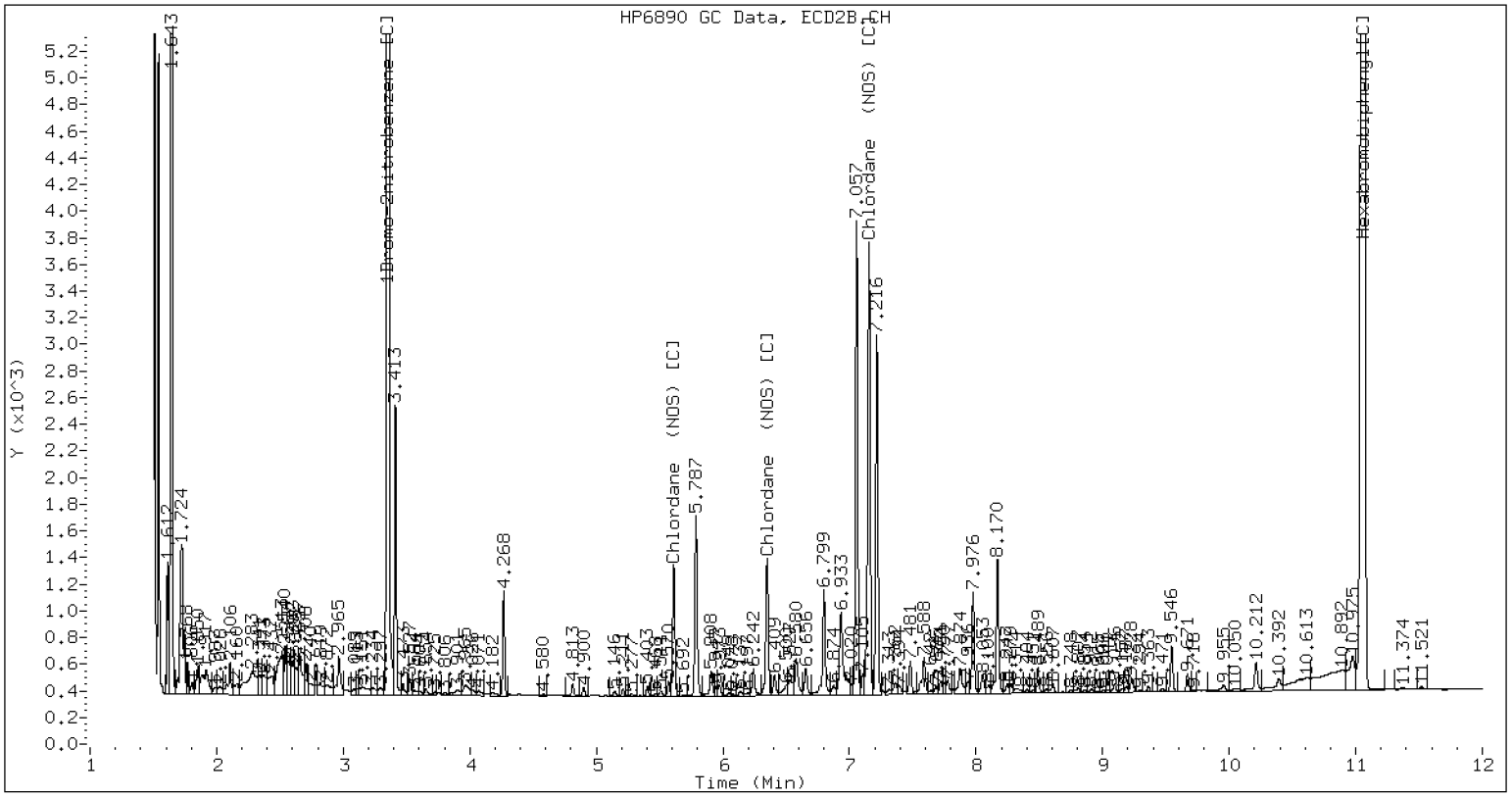
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	5.593	0.001	20502	53.5	1	5.612	-0.000	24816	49.7	
Chlordane (NOS)	2	6.271	-0.000	66320	52.2	2	6.349	0.000	29114	51.9	
Chlordane (NOS)	3	6.399	0.000	116820	52.6	3	7.155	-0.000	98401	51.9	
Total STX-CLPAve (3 peaks): 52.767						Total CLP2Ave (3 peaks): 51.179				RPD = 3	
Corrected Ave (3 peaks): 52.767						Corrected Ave (3 peaks): 51.179				RPD = 3	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121423.D SEQ-CAL3A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121423.D
Data file 2: /20221214.b/B20221214.b/22121423.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3A
Client ID:
Injection Date: 15-DEC-2022 01:59
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121424.D
Data file 2: /20221214.b/B20221214.b/22121424.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4A
Client ID:
Injection Date: 15-DEC-2022 02:17
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	584808	-17.7
Hexabromobiphenyl	641833	675665	5.3

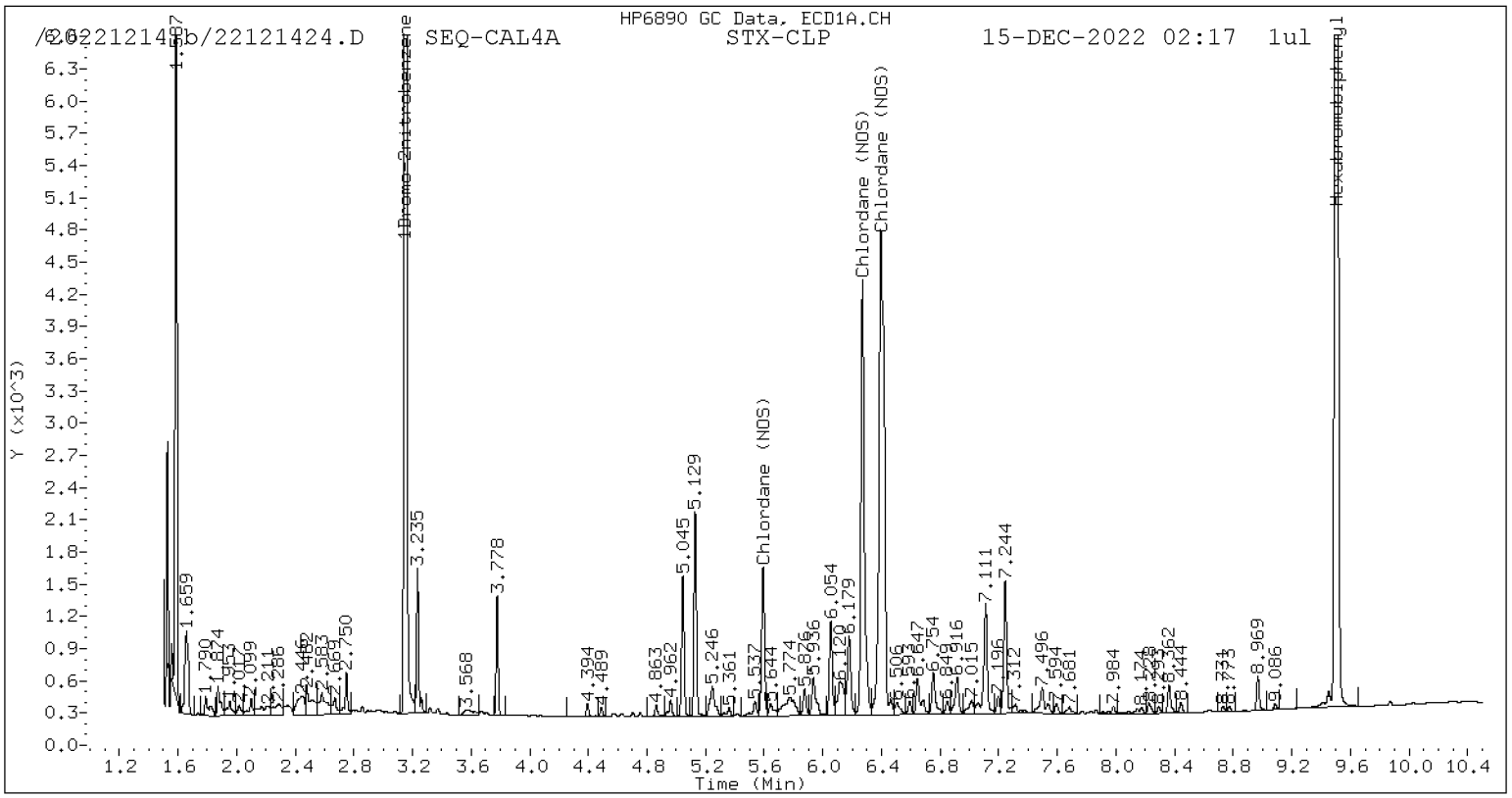
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	758204	-28.4
Hexabromobiphenyl	797125	1039488	30.4

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

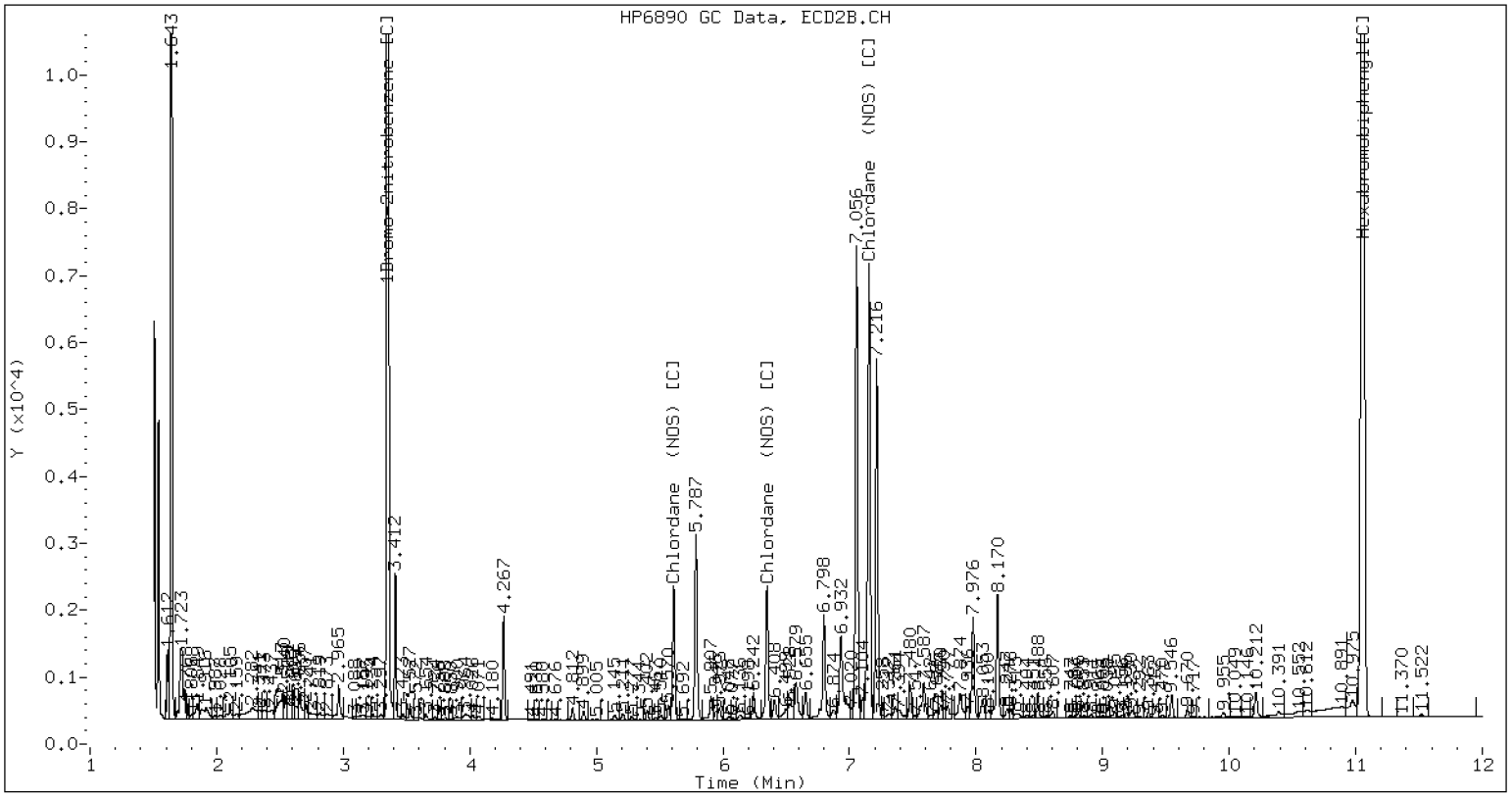
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	5.593	-0.000	39696	105.0	1	5.611	-0.001	49889	101.4	
Chlordane (NOS)	2	6.271	-0.000	131726	105.2	2	6.348	-0.001	56608	102.5	
Chlordane (NOS)	3	6.398	-0.001	229050	104.6	3	7.155	-0.000	195665	104.7	
Total STX-CLPAve (3 peaks): 104.931						Total CLP2Ave (3 peaks): 102.854				RPD = 2	
Corrected Ave (3 peaks): 104.931						Corrected Ave (3 peaks): 102.854				RPD = 2	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121424.D SEQ-CAL4A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121424.D
Data file 2: /20221214.b/B20221214.b/22121424.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4A
Client ID:
Injection Date: 15-DEC-2022 02:17
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121425.D
Data file 2: /20221214.b/B20221214.b/22121425.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5A
Client ID:
Injection Date: 15-DEC-2022 02:35
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	612592	-13.8
Hexabromobiphenyl	641833	705251	9.9

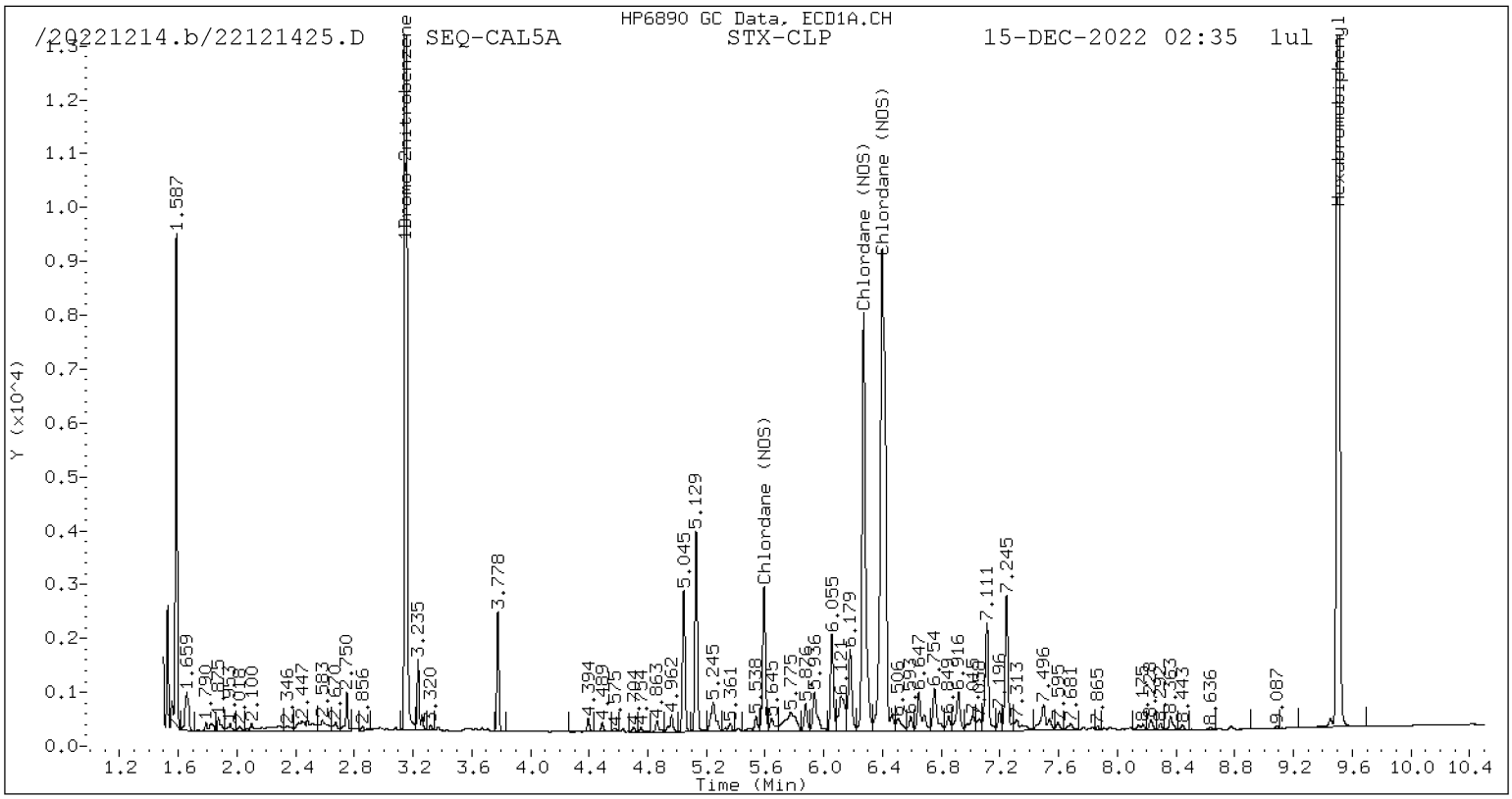
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	792856	-25.1
Hexabromobiphenyl	797125	1079718	35.5

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

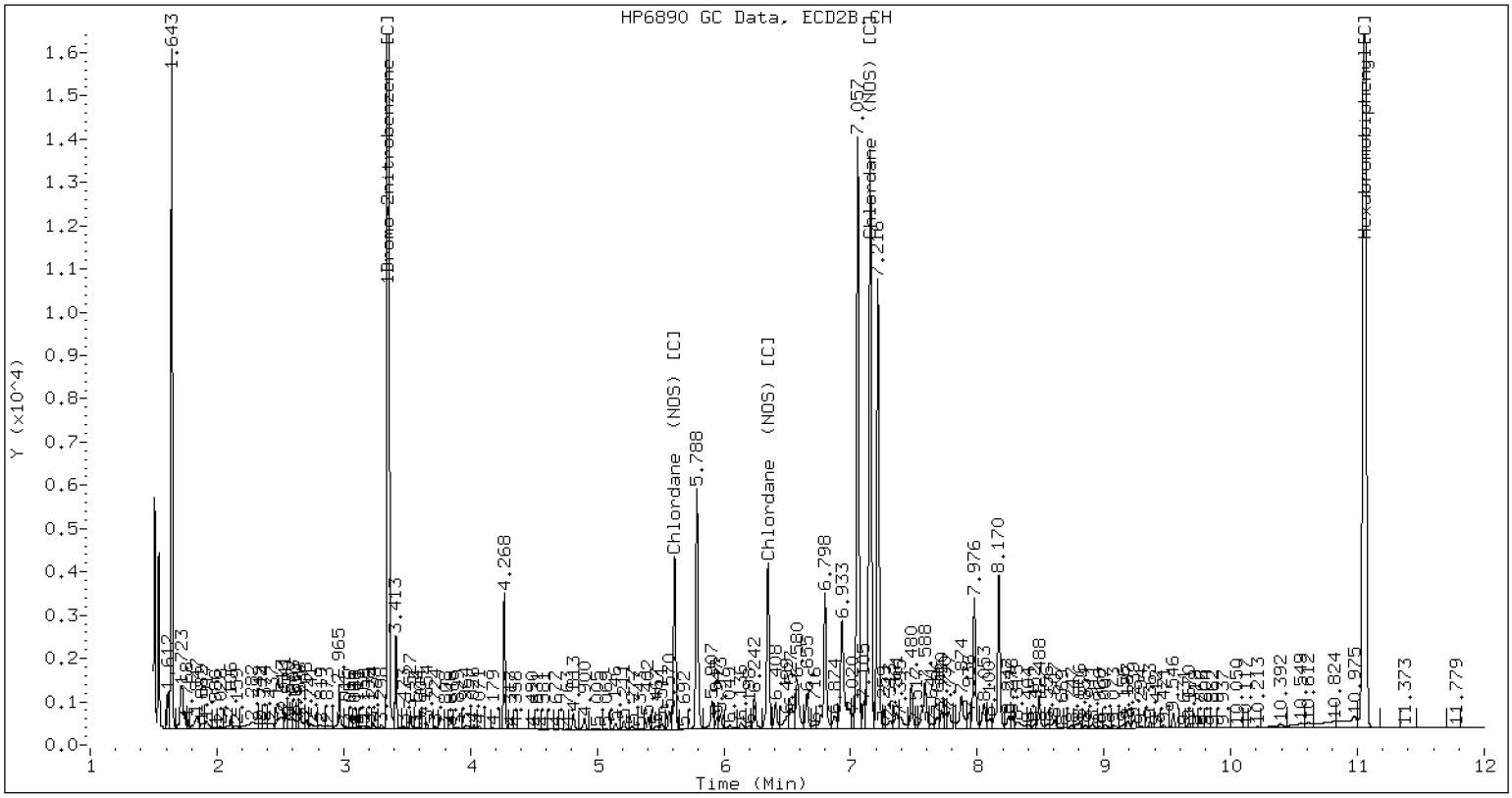
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	5.593	0.000	77307	196.0	1	5.612	-0.000	101527	198.7	
Chlordane (NOS)	2	6.271	0.000	261078	199.7	2	6.349	-0.001	110757	193.0	
Chlordane (NOS)	3	6.399	0.000	449301	196.5	3	7.155	-0.000	389197	200.5	
Total STX-CLPAve (3 peaks): 197.408						Total CLP2Ave (3 peaks): 197.390				RPD = 0	
Corrected Ave (3 peaks): 197.408						Corrected Ave (3 peaks): 197.390				RPD = 0	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121425.D SEQ-CAL5A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121425.D
Data file 2: /20221214.b/B20221214.b/22121425.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5A
Client ID:
Injection Date: 15-DEC-2022 02:35
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121426.D
Data file 2: /20221214.b/B20221214.b/22121426.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6A
Client ID:
Injection Date: 15-DEC-2022 02:53
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	603526	-15.1
Hexabromobiphenyl	641833	699031	8.9

Column 2

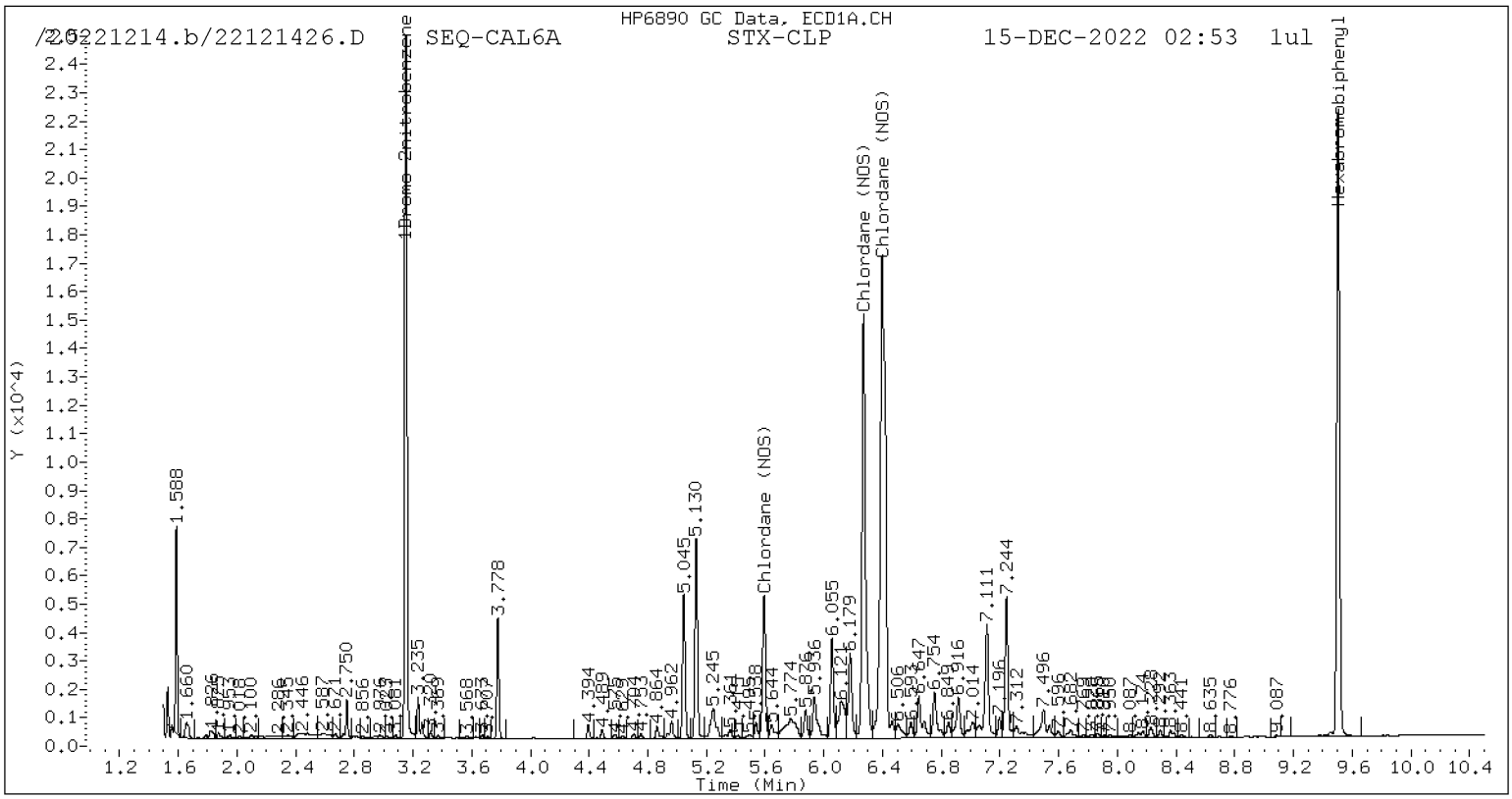
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	779405	-26.4
Hexabromobiphenyl	797125	1068976	34.1

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col				CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Chlordane (NOS)	1	5.592	-0.000	146950	375.8	1	5.612	-0.000	203386	402.0
Chlordane (NOS)	2	6.271	-0.000	503310	388.5	2	6.349	-0.000	212637	374.2
Chlordane (NOS)	3	6.399	0.000	857451	378.4	3	7.155	-0.000	752631	391.6

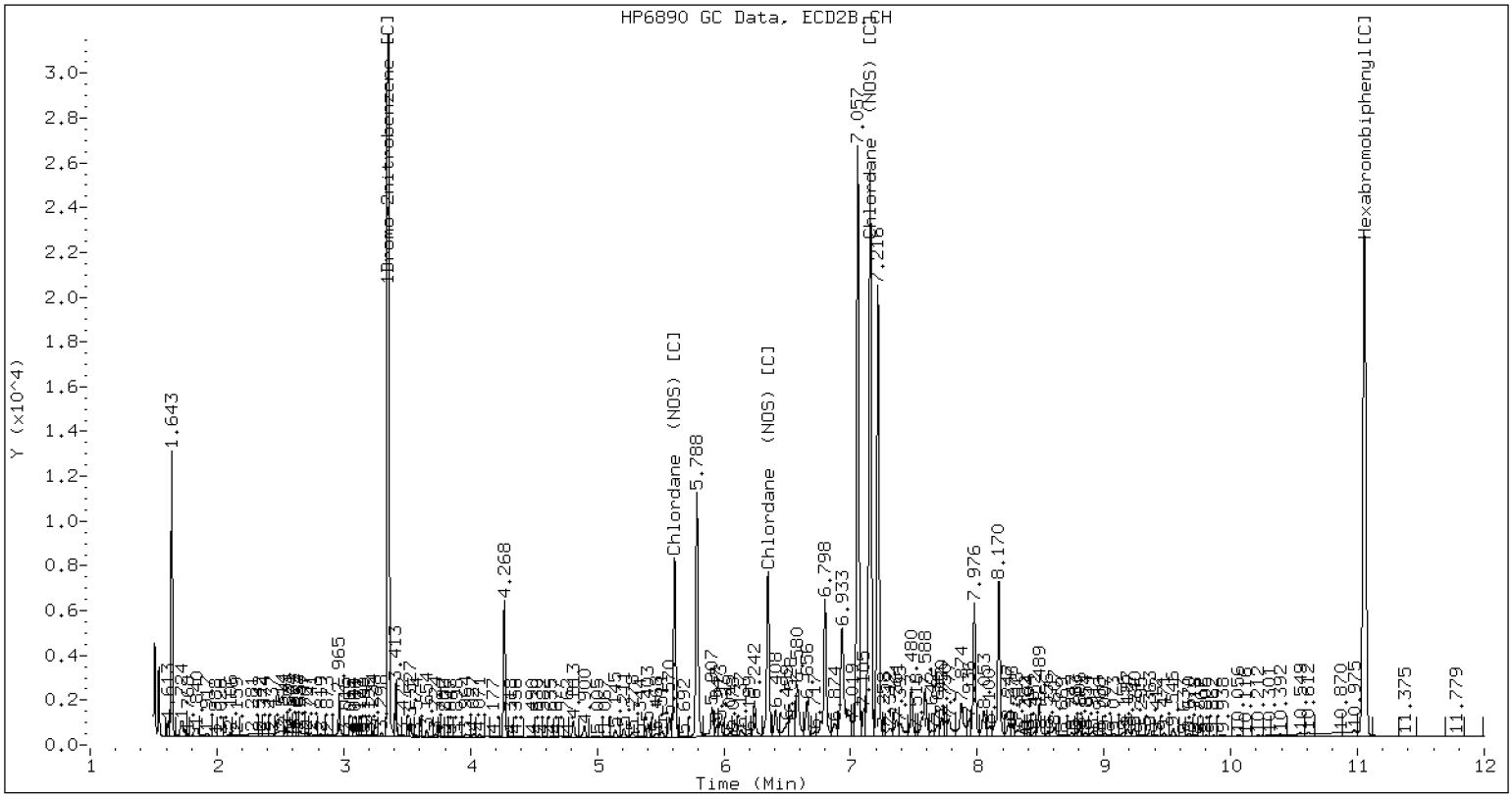
Total STX-CLPAve (3 peaks): 380.894 Total CLP2Ave (3 peaks): 389.290 RPD = 2
Corrected Ave (3 peaks): 380.894 Corrected Ave (3 peaks): 389.290 RPD = 2

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121426.D SEQ-CAL6A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121426.D
Data file 2: /20221214.b/B20221214.b/22121426.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6A
Client ID:
Injection Date: 15-DEC-2022 02:53
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121427.D
Data file 2: /20221214.b/B20221214.b/22121427.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7A
Client ID:
Injection Date: 15-DEC-2022 03:11
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	Tetrachloro-m-xylene
9.380	0.025	1930	----			0.31	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	610159	-14.1
Hexabromobiphenyl	641833	692215	7.8

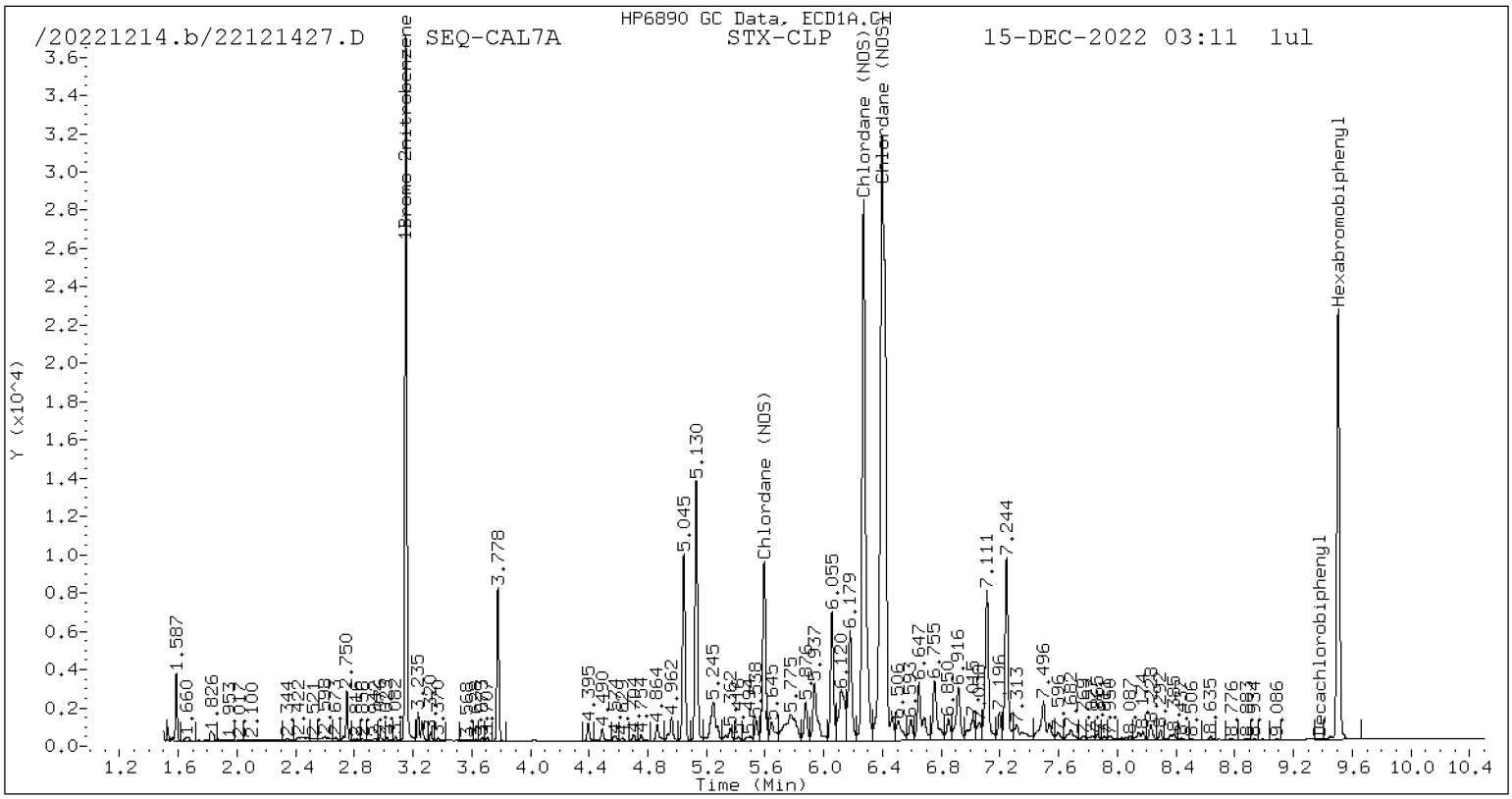
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	790388	-25.4
Hexabromobiphenyl	797125	1059143	32.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

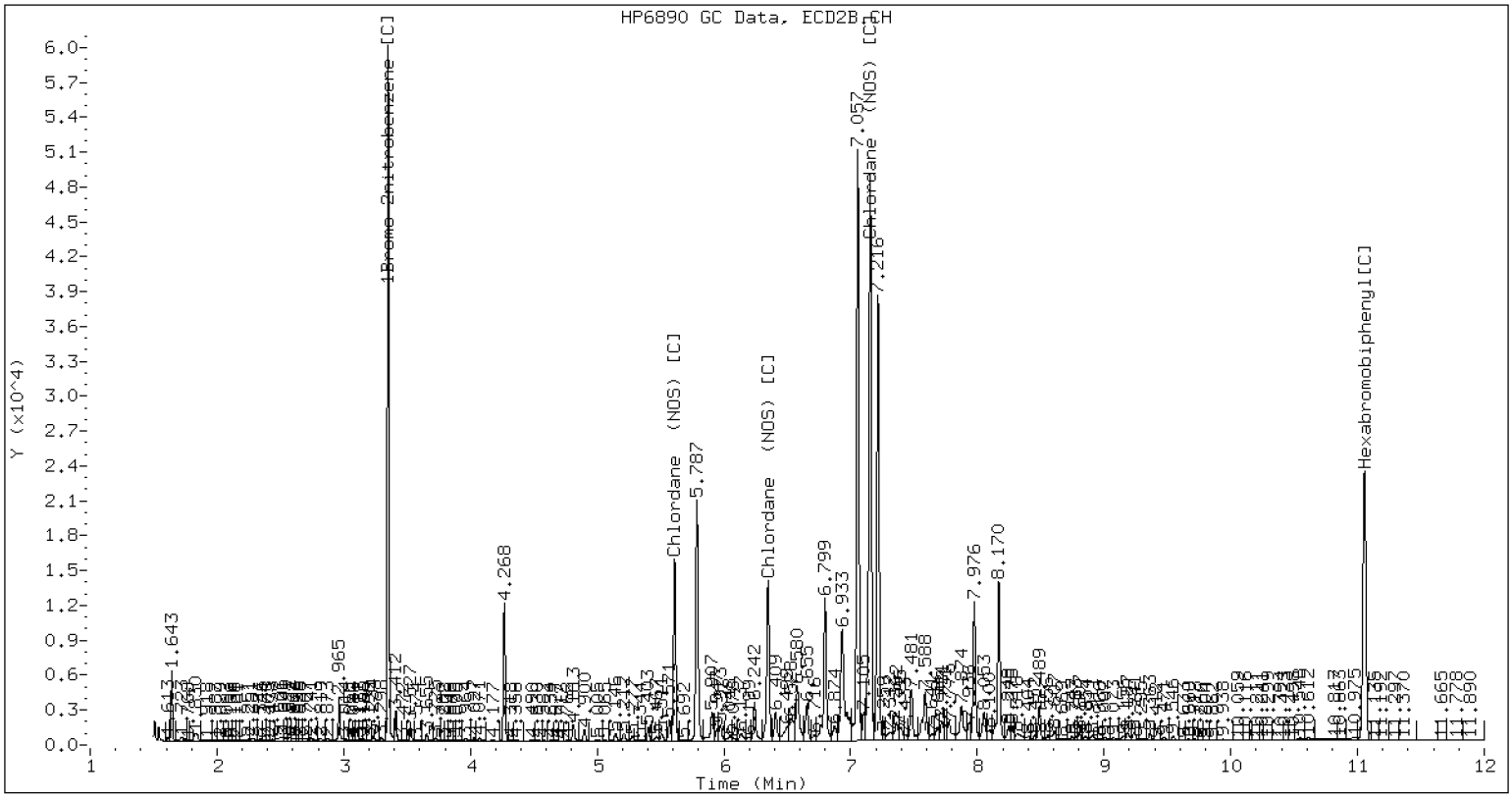
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	5.593	0.001	276980	715.3	1	5.612	0.000	398620	795.3	
Chlordane (NOS)	2	6.271	-0.000	961368	749.3	2	6.349	0.000	405170	719.7	
Chlordane (NOS)	3	6.399	-0.000	1631241	727.0	3	7.155	0.000	1462876	768.2	
Total STX-CLPAve (3 peaks): 730.539						Total CLP2Ave (3 peaks): 761.064				RPD = 4	
Corrected Ave (3 peaks): 730.539						Corrected Ave (3 peaks): 761.064				RPD = 4	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121427.D SEQ-CAL7A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121427.D
Data file 2: /20221214.b/B20221214.b/22121427.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7A
Client ID:
Injection Date: 15-DEC-2022 03:11
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121428.D
Data file 2: /20221214.b/B20221214.b/22121428.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8A
Client ID:
Injection Date: 15-DEC-2022 03:29
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	0.000	8893	4.221	0.000	14795	0.95	0.98	4.0	Tetrachloro-m-xylene
9.355	0.000	15511	10.467	0.000	24896	2.54	2.86	11.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	691781	-2.7
Hexabromobiphenyl	641833	602865	-6.1

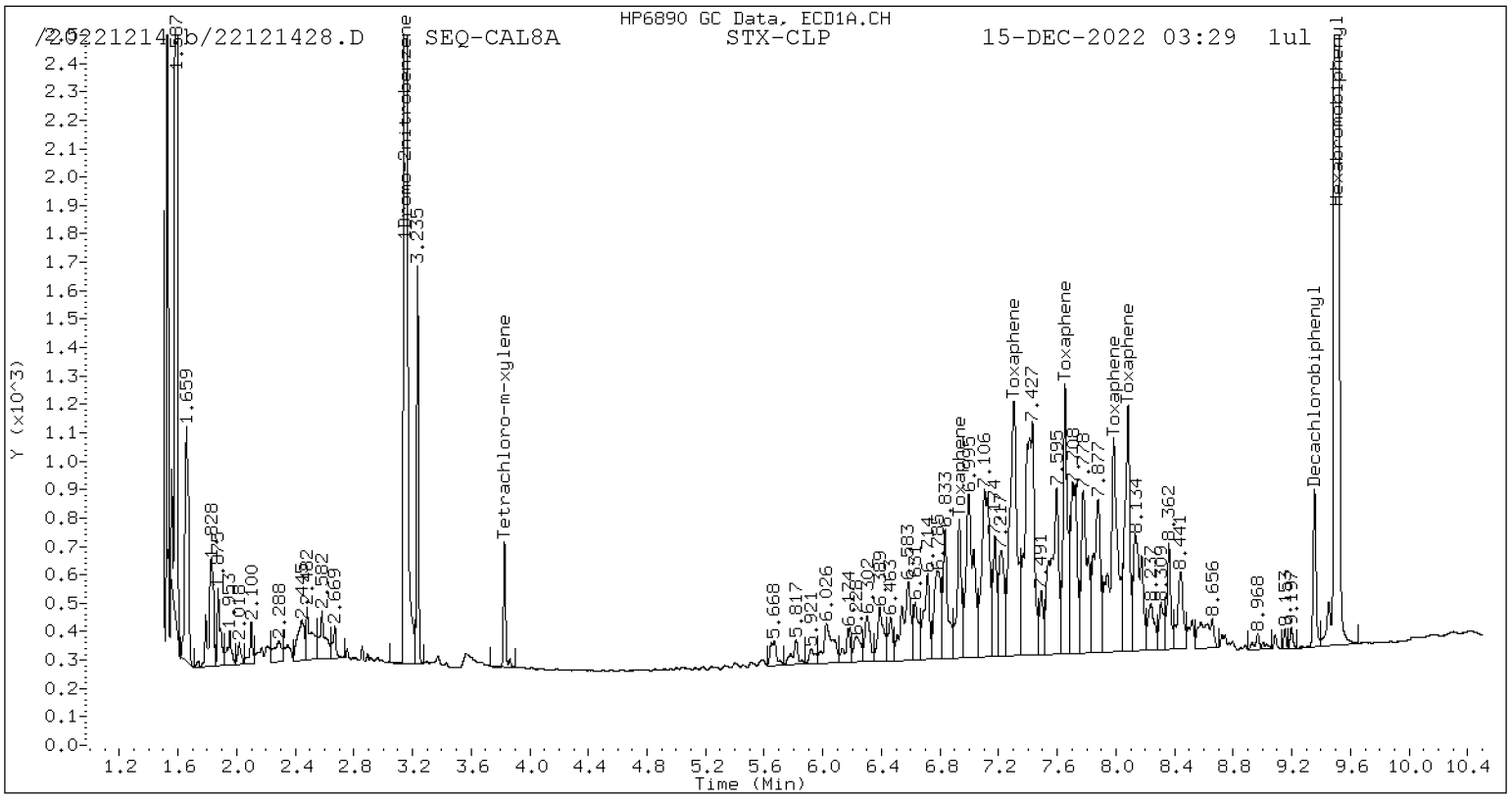
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1068328	0.9
Hexabromobiphenyl	797125	788806	-1.0

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

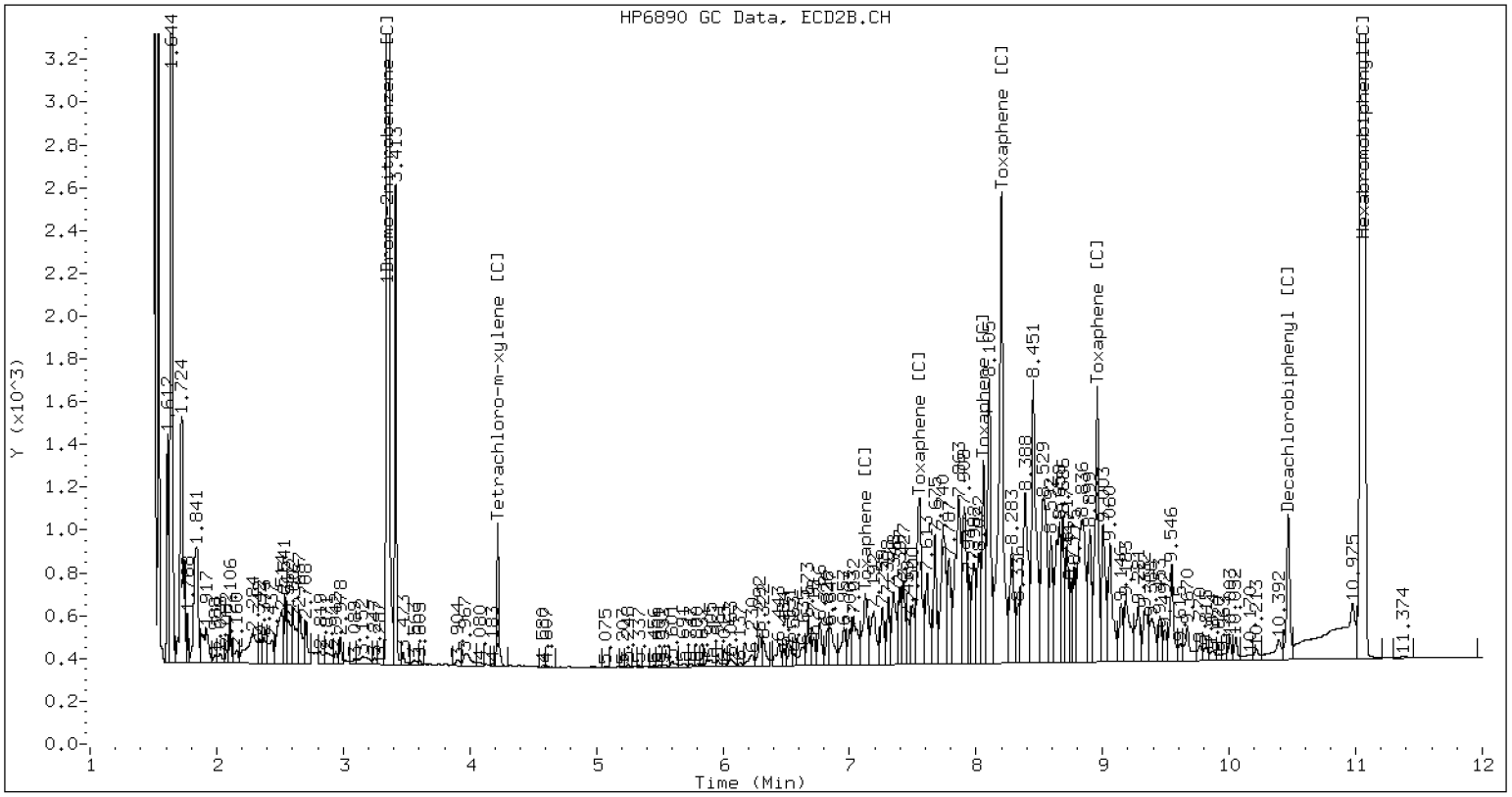
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	6.931	0.000	20939	118.9	1	7.125	-0.000	18390	124.1	
Toxaphene	2	7.304	0.000	62921	127.5	2	7.553	-0.000	43437	130.4	
Toxaphene	3	7.653	-0.000	40147	126.2	3	8.059	-0.001	32235	127.1	
Toxaphene	4	7.985	-0.001	56816	133.6	4	8.201	-0.001	109296	132.1	
Toxaphene	5	8.082	-0.000	39643	123.4	5	8.958	-0.001	50997	125.7	
Total STX-CLPAve (5 peaks): 125.907						Total CLP2Ave (5 peaks): 127.865					RPD = 2
Corrected Ave (5 peaks): 125.907						Corrected Ave (5 peaks): 127.865					RPD = 2

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121428.D SEQ-CAL8A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121428.D
Data file 2: /20221214.b/B20221214.b/22121428.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8A
Client ID:
Injection Date: 15-DEC-2022 03:29
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121429.D
Data file 2: /20221214.b/B20221214.b/22121429.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9A
Client ID:
Injection Date: 15-DEC-2022 03:46
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	-0.000	18632	4.220	-0.000	29829	1.92	1.92	0.1	Tetrachloro-m-xylene
9.355	0.000	29179	10.467	0.000	44716	4.64	4.98	7.1	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	713620	0.4
Hexabromobiphenyl	641833	620026	-3.4

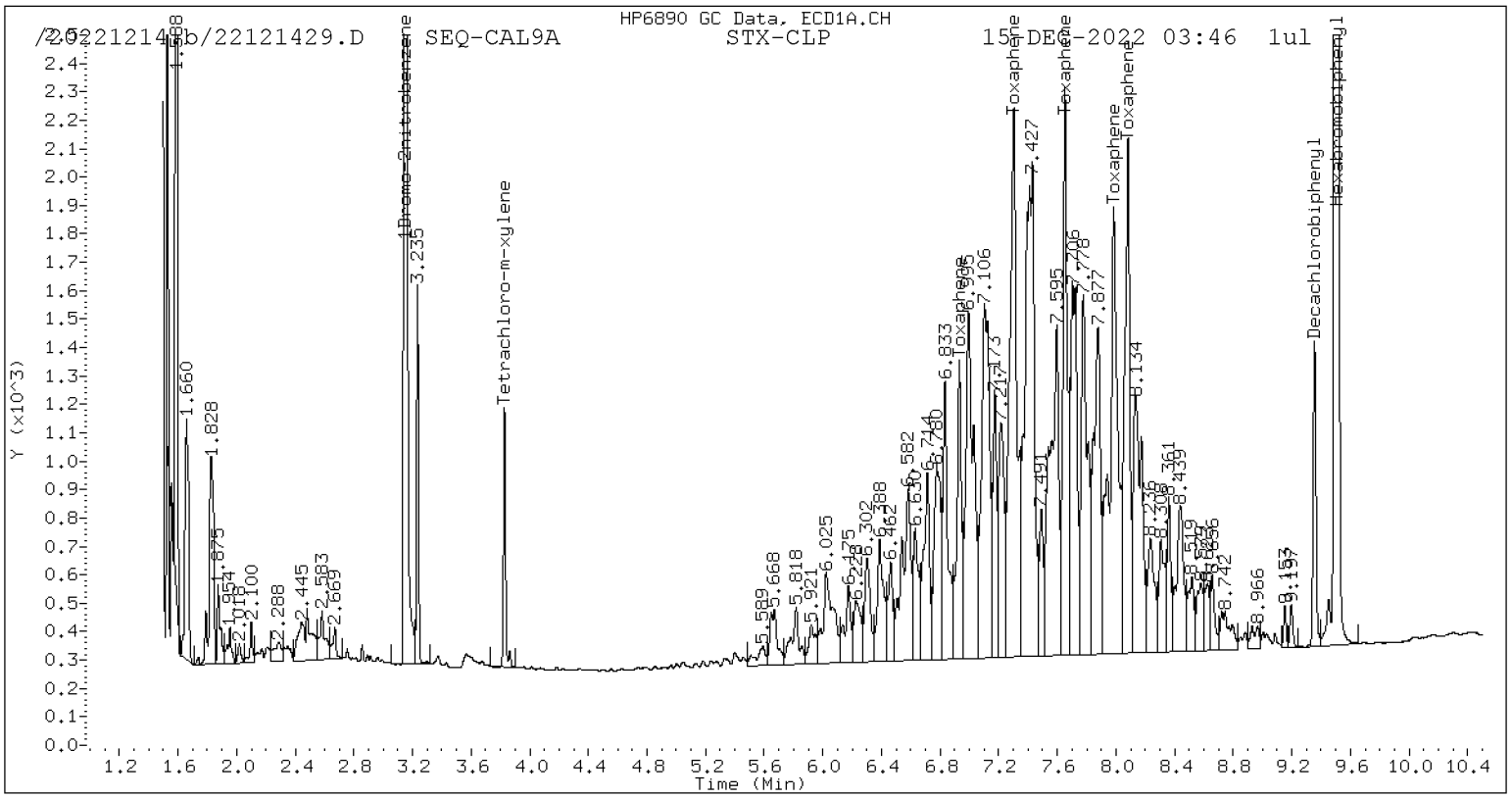
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1104488	4.3
Hexabromobiphenyl	797125	811719	1.8

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

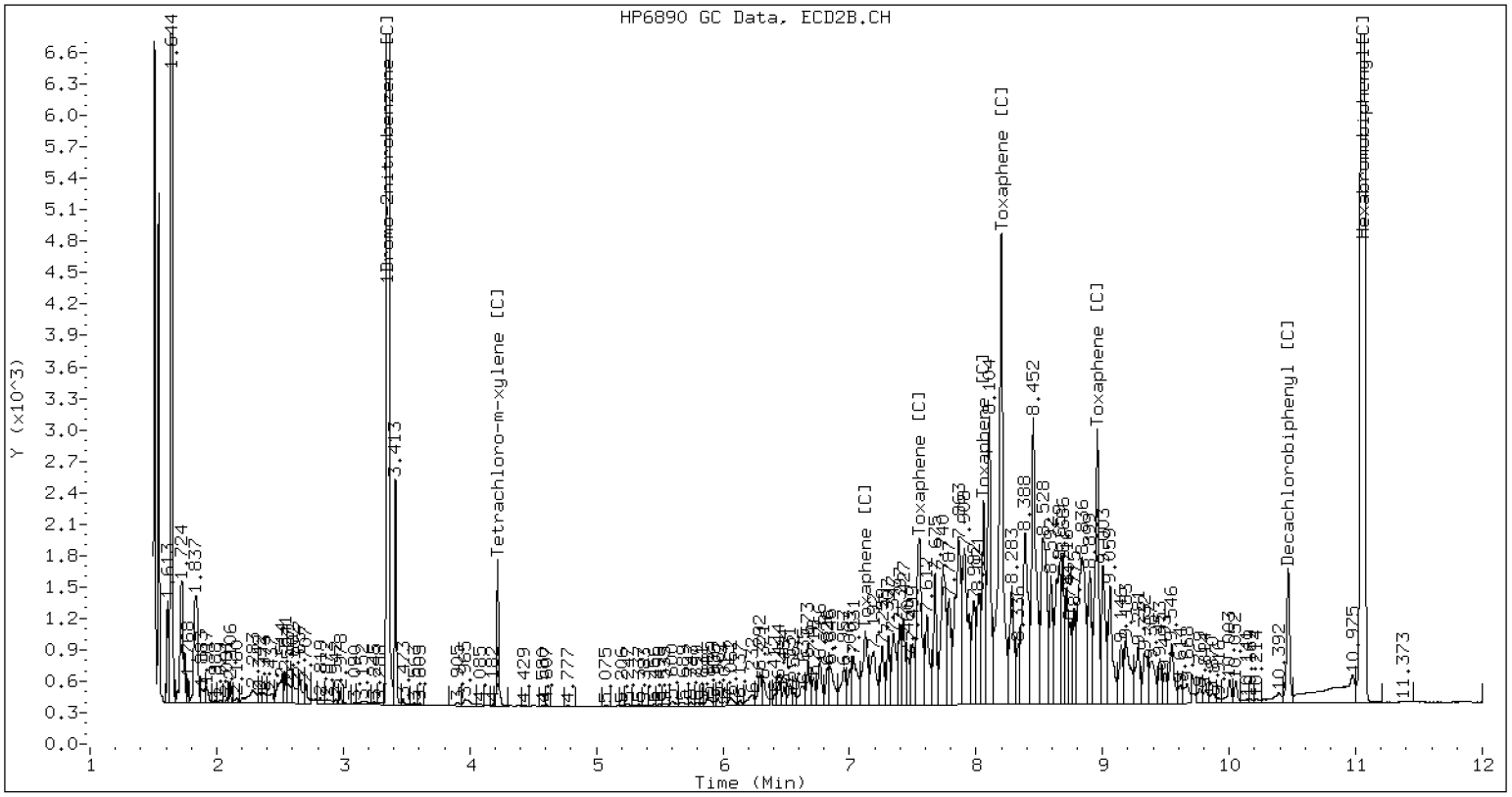
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	6.931	0.000	47415	261.8	1	7.125	-0.001	38790	254.4	
Toxaphene	2	7.302	-0.001	134642	265.2	2	7.552	-0.001	89754	261.8	
Toxaphene	3	7.652	-0.001	86679	264.9	3	8.059	-0.001	67442	258.4	
Toxaphene	4	7.985	-0.001	125891	287.7	4	8.200	-0.001	220426	258.9	
Toxaphene	5	8.081	-0.000	85903	260.0	5	8.958	-0.001	104601	250.5	
Total STX-CLPAve (5 peaks): 267.939						Total CLP2Ave (5 peaks): 256.784				RPD = 4	
Corrected Ave (5 peaks): 267.939						Corrected Ave (5 peaks): 256.784				RPD = 4	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121429.D SEQ-CAL9A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121429.D
Data file 2: /20221214.b/B20221214.b/22121429.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9A
Client ID:
Injection Date: 15-DEC-2022 03:46
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121430.D
Data file 2: /20221214.b/B20221214.b/22121430.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAA
Client ID:
Injection Date: 15-DEC-2022 04:04
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	-0.000	37717	4.220	0.000	60469	3.98	3.98	0.0	Tetrachloro-m-xylene
9.355	0.000	57106	10.467	0.000	82418	9.20	9.32	1.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	696179	-2.0
Hexabromobiphenyl	641833	612804	-4.5

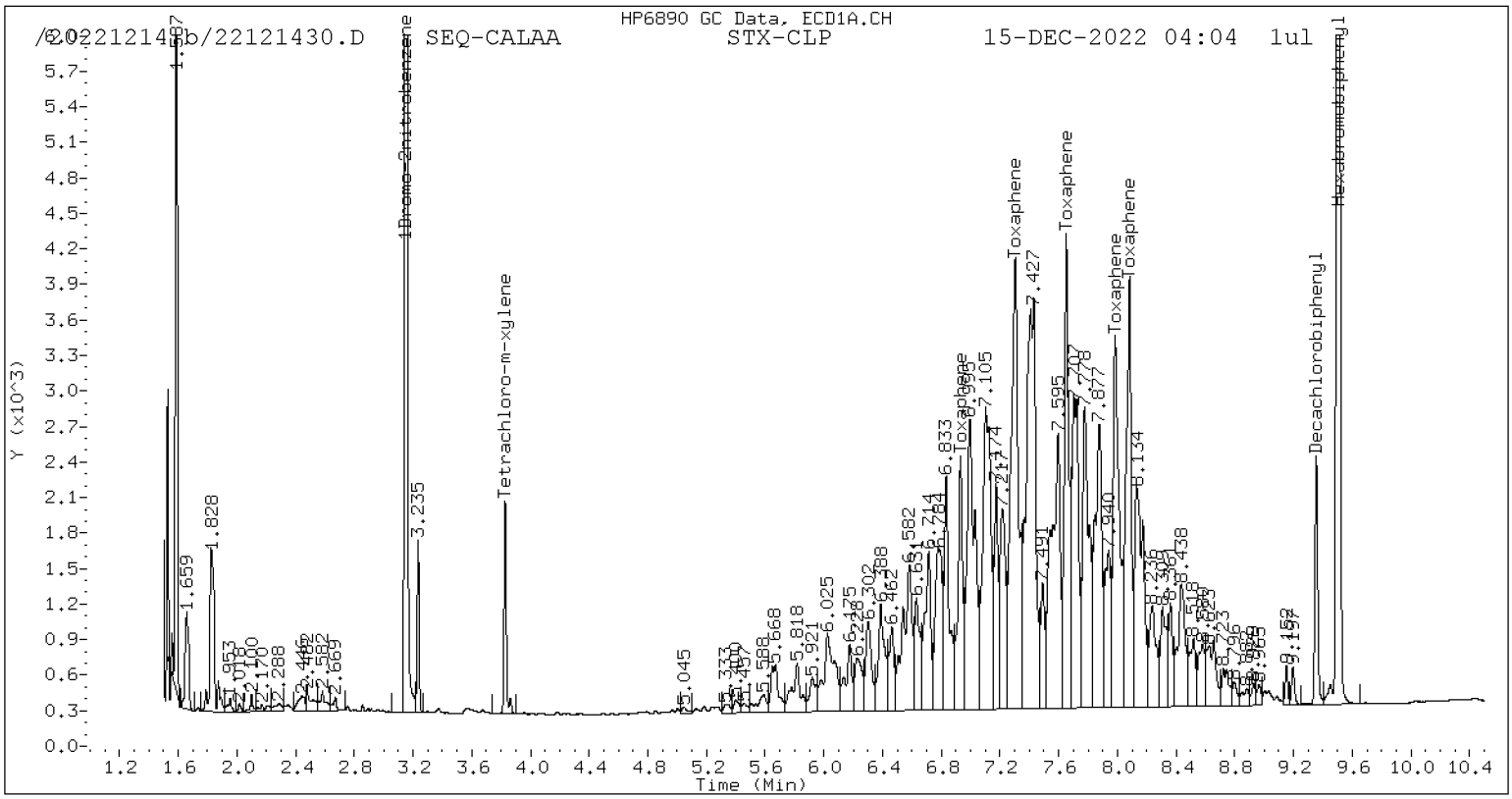
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1078803	1.9
Hexabromobiphenyl	797125	800071	0.4

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

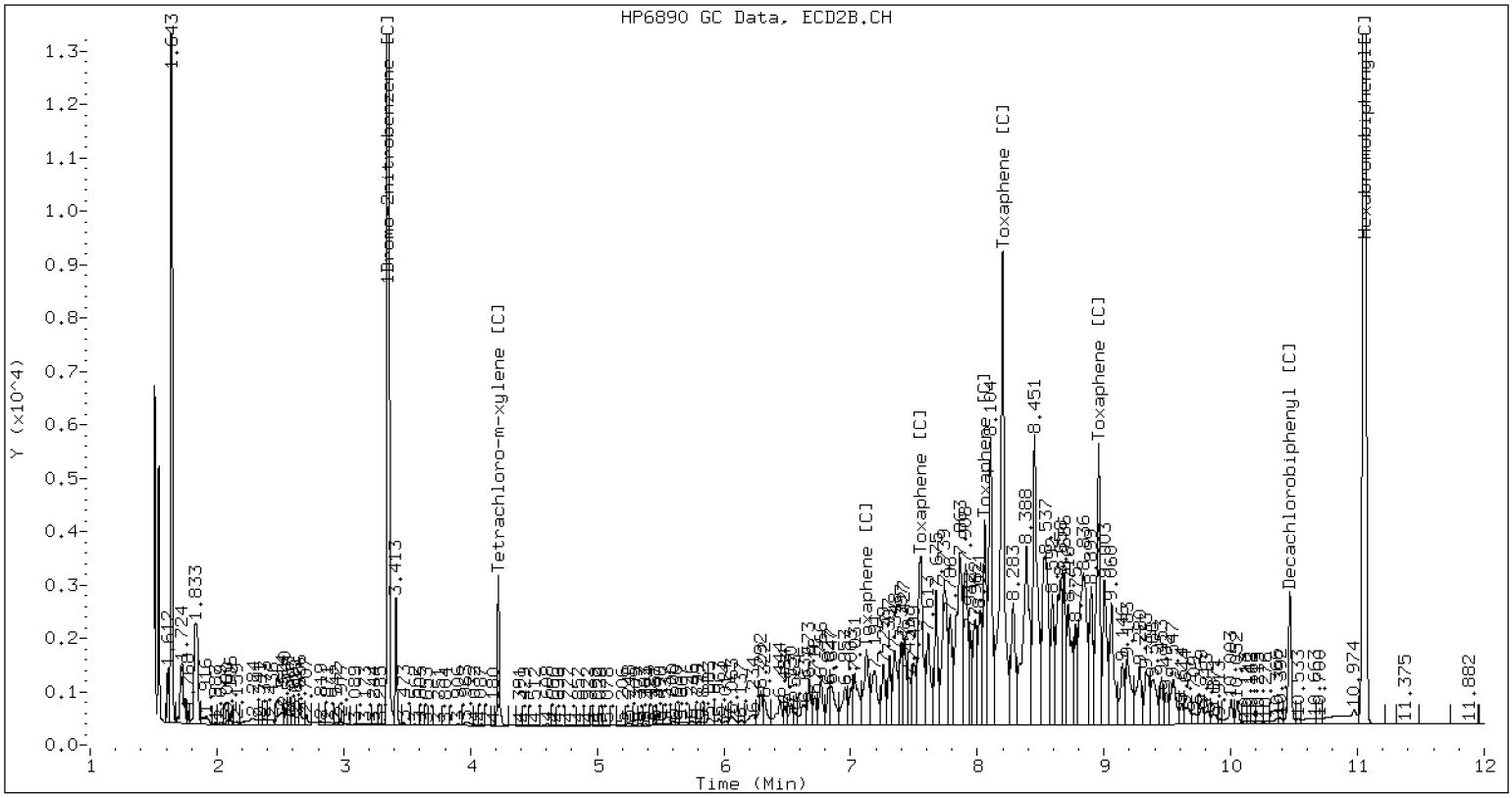
	STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	6.931	-0.000	96535	539.4	1	7.125	-0.001	78635	523.1
Toxaphene	2	7.304	0.000	273576	545.2	2	7.553	-0.001	179081	529.9
Toxaphene	3	7.652	-0.001	177095	547.7	3	8.059	-0.001	133547	519.1
Toxaphene	4	7.985	-0.001	190443	440.4	4	8.200	-0.001	437035	520.8
Toxaphene	5	8.082	-0.000	175009	535.8	5	8.958	-0.001	209659	509.4
Total STX-CLPAve (5 peaks): 521.711						Total CLP2Ave (5 peaks): 520.468				RPD = 0
Corrected Ave (5 peaks): 521.711						Corrected Ave (5 peaks): 520.468				RPD = 0

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121430.D SEQ-CALAA CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121430.D
Data file 2: /20221214.b/B20221214.b/22121430.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAA
Client ID:
Injection Date: 15-DEC-2022 04:04
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121431.D
Data file 2: /20221214.b/B20221214.b/22121431.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAB
Client ID:
Injection Date: 15-DEC-2022 04:22
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	0.000	74347	4.221	0.000	119694	7.73	7.77	0.5	Tetrachloro-m-xylene
9.355	-0.000	107024	10.466	-0.000	151970	17.00	17.11	0.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	706924	-0.5
Hexabromobiphenyl	641833	621486	-3.2

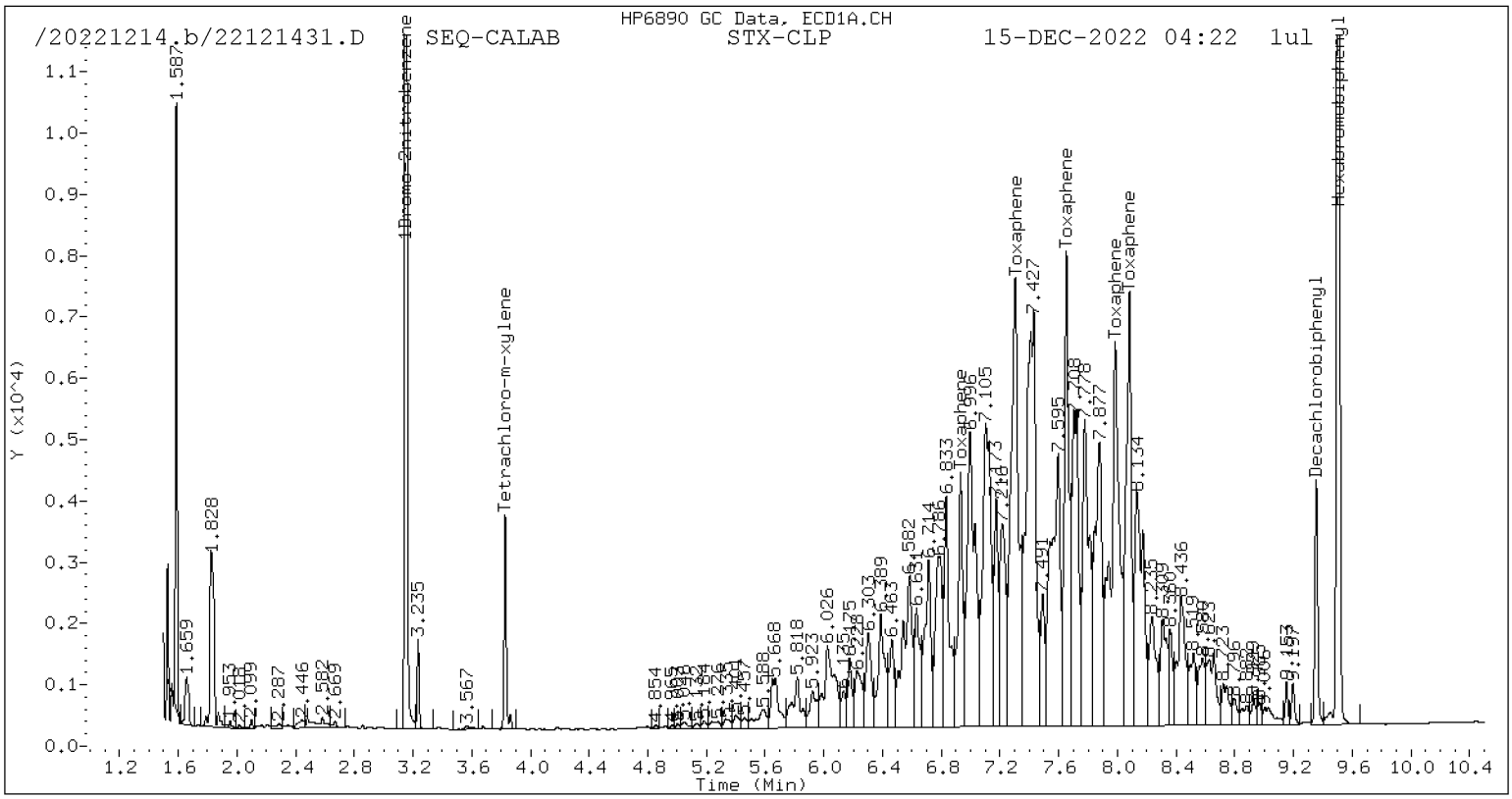
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1093936	3.3
Hexabromobiphenyl	797125	803782	0.8

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

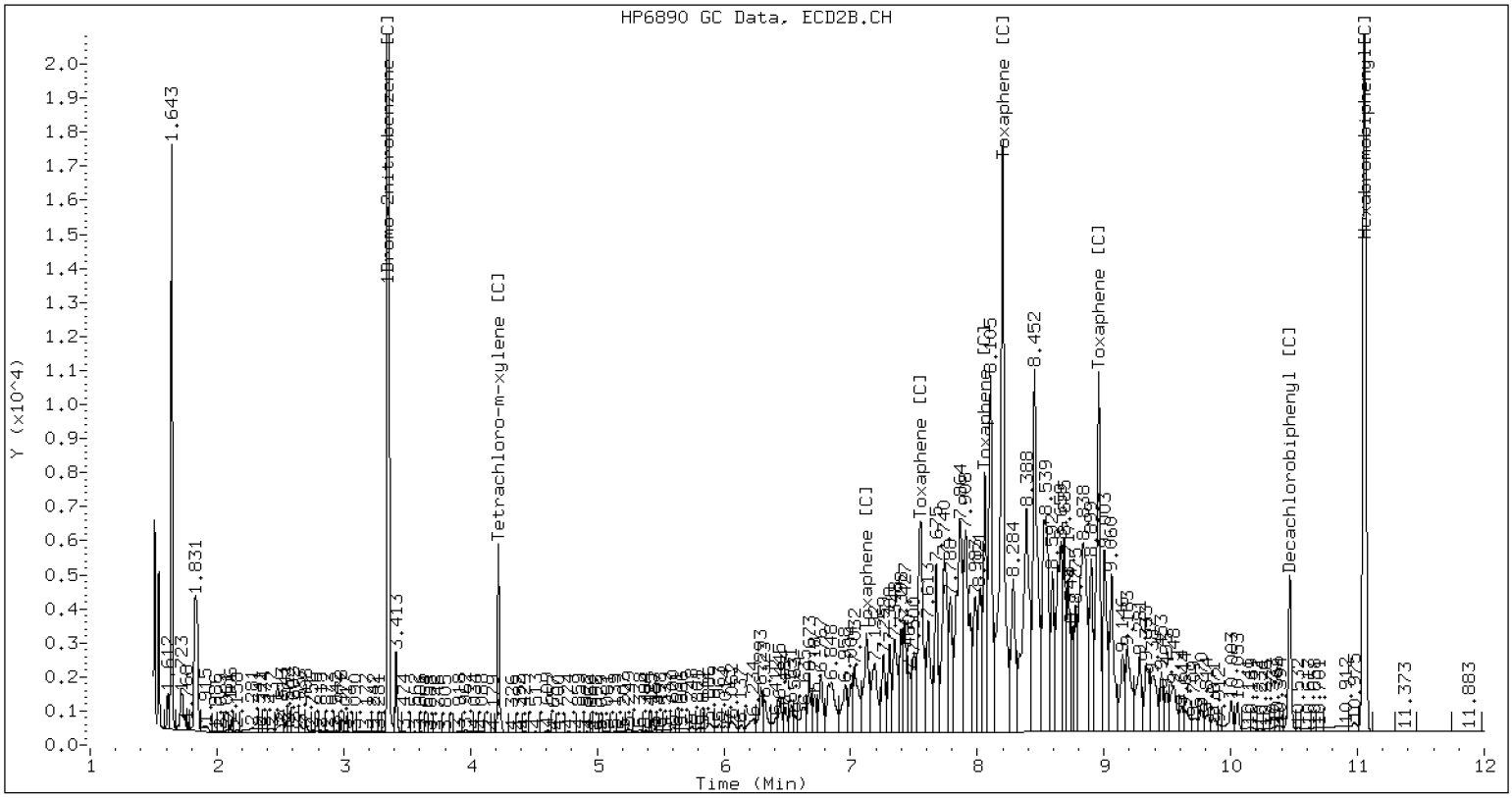
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	6.931	0.000	192757	1062.0	1	7.125	-0.000	156515	1036.5	
Toxaphene	2	7.303	-0.000	530863	1043.2	2	7.553	-0.001	349637	1029.8	
Toxaphene	3	7.653	-0.000	344194	1049.6	3	8.059	-0.000	265296	1026.5	
Toxaphene	4	7.986	-0.000	522105	1190.6	4	8.201	-0.001	854255	1013.3	
Toxaphene	5	8.082	-0.000	345477	1043.0	5	8.958	-0.001	416452	1007.1	
Total STX-CLPAve (5 peaks): 1077.665						Total CLP2Ave (5 peaks): 1022.630					RPD = 5
Corrected Ave (5 peaks): 1077.665						Corrected Ave (5 peaks): 1022.630					RPD = 5

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121431.D SEQ-CALAB CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121431.D
Data file 2: /20221214.b/B20221214.b/22121431.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAB
Client ID:
Injection Date: 15-DEC-2022 04:22
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121432.D
Data file 2: /20221214.b/B20221214.b/22121432.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAC
Client ID:
Injection Date: 15-DEC-2022 04:40
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	0.000	169388	4.221	0.000	273030	18.51	18.69	1.0	Tetrachloro-m-xylene
9.356	0.001	234532	10.466	-0.000	332716	40.53	40.11	1.0	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	672958	-5.3
Hexabromobiphenyl	641833	571112	-11.0

Column 2

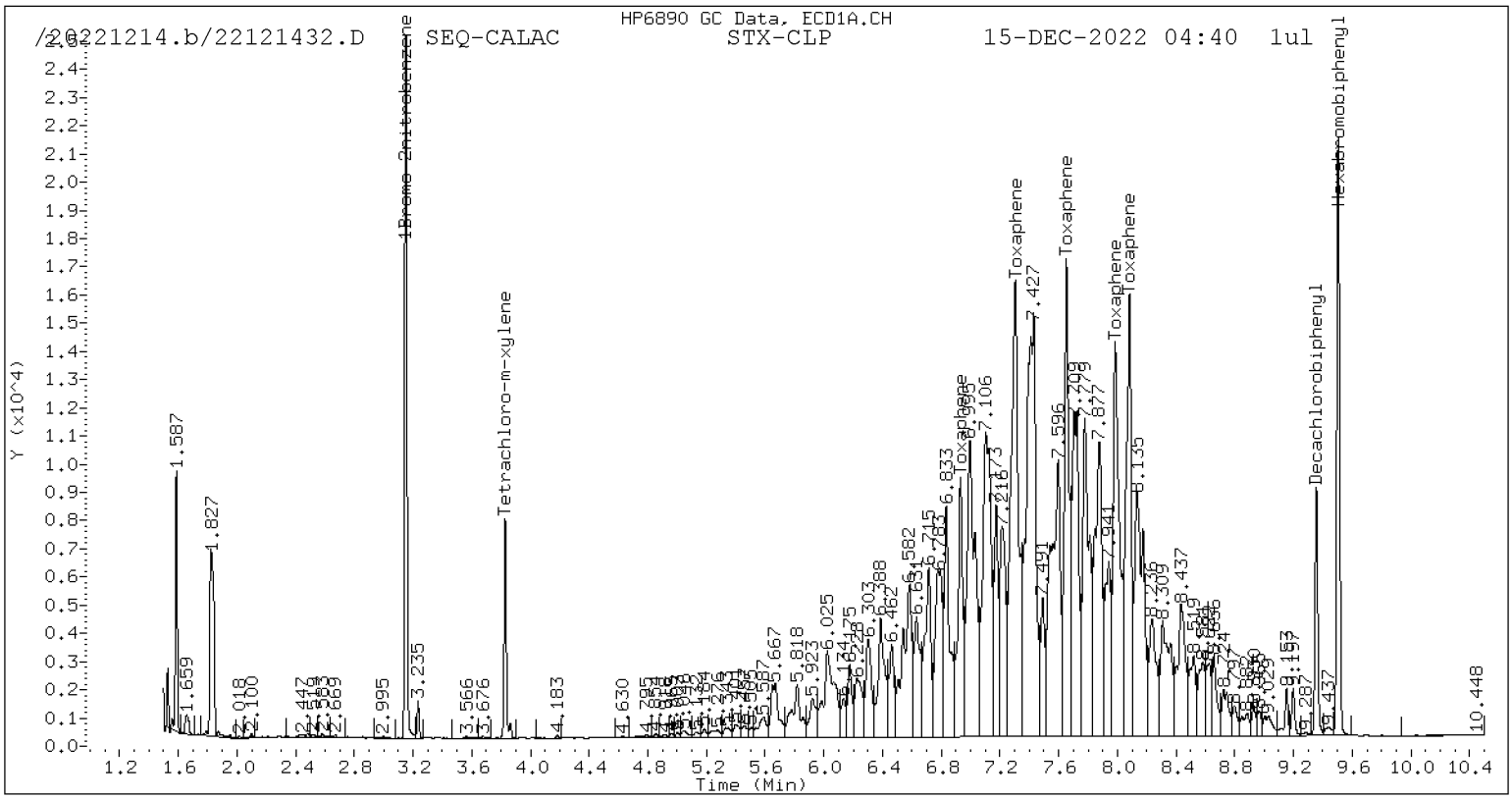
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1037593	-2.0
Hexabromobiphenyl	797125	750492	-5.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	6.931	0.000	432250	2591.5	1	7.126	-0.000	358061	2539.5
Toxaphene	2	7.303	0.000	1180375	2524.1	2	7.553	0.000	785942	2479.1
Toxaphene	3	7.653	0.000	762221	2529.4	3	8.059	-0.000	602985	2498.7
Toxaphene	4	7.986	0.000	863552	2142.9	4	8.201	-0.001	1929083	2450.8
Toxaphene	5	8.082	0.000	777497	2554.3	5	8.958	-0.001	962132	2492.0

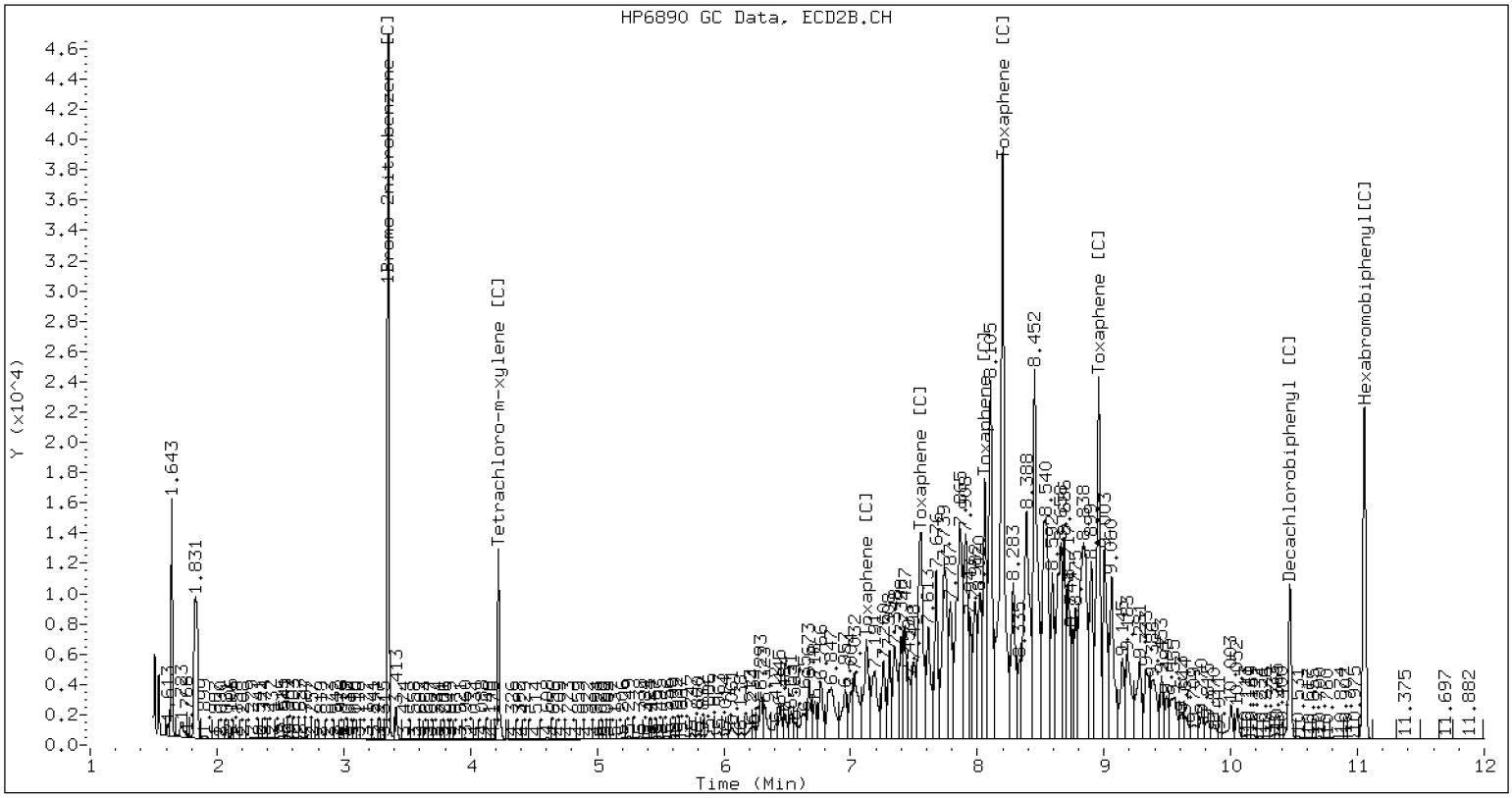
Total STX-CLPAve (5 peaks): 2468.427 Total CLP2Ave (5 peaks): 2492.024 RPD = 1
Corrected Ave (5 peaks): 2468.427 Corrected Ave (5 peaks): 2492.024 RPD = 1

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121432.D SEQ-CALAC CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121432.D
Data file 2: /20221214.b/B20221214.b/22121432.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAC
Client ID:
Injection Date: 15-DEC-2022 04:40
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121433.D
Data file 2: /20221214.b/B20221214.b/22121433.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAD
Client ID:
Injection Date: 15-DEC-2022 04:58
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	-0.000	329284	4.221	0.000	536251	34.78	35.63	2.4	Tetrachloro-m-xylene
9.356	0.000	464116	10.466	-0.000	660536	76.95	77.19	0.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	696178	-2.0
Hexabromobiphenyl	641833	595287	-7.3

Column 2

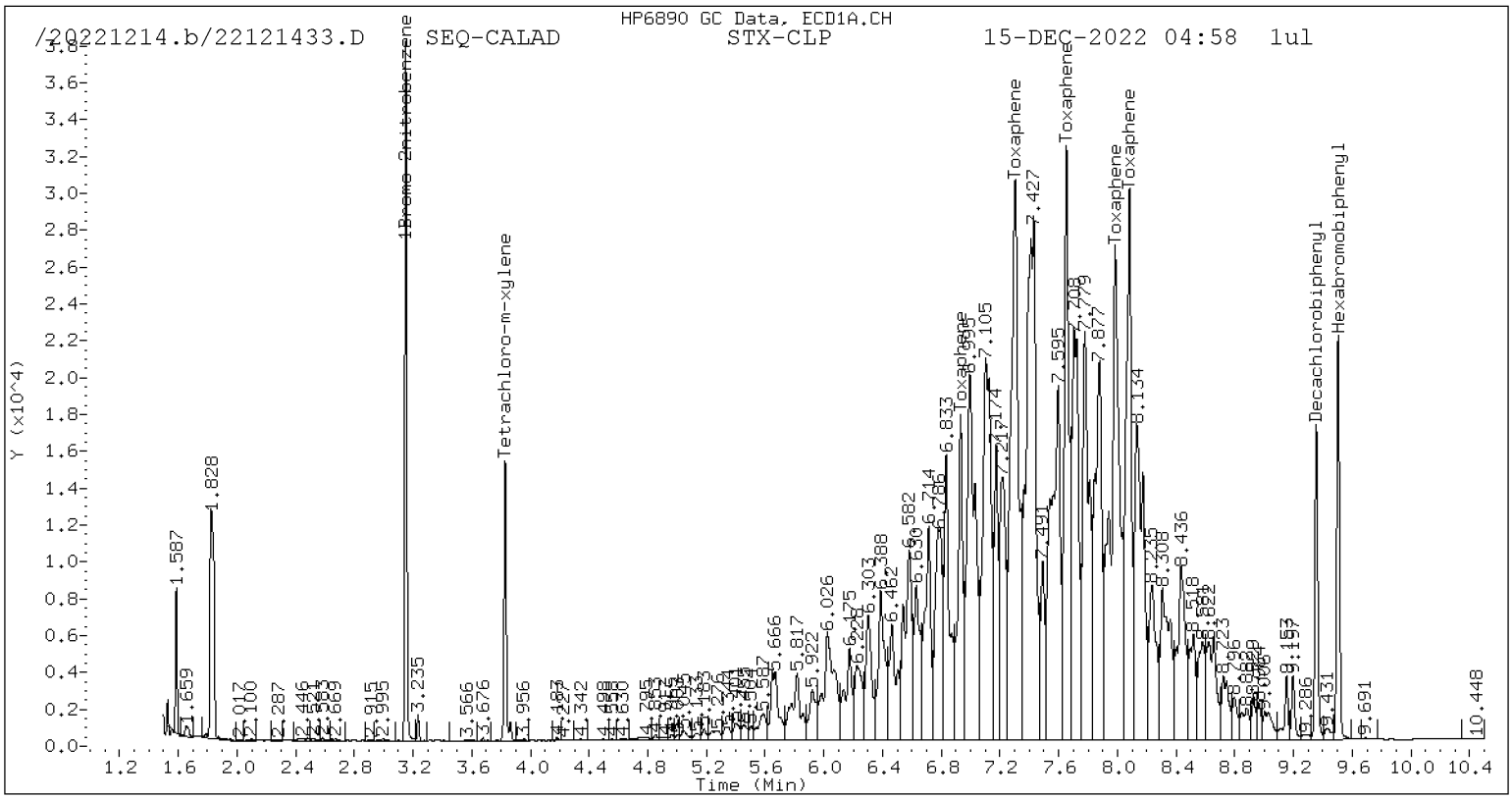
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1069205	1.0
Hexabromobiphenyl	797125	774218	-2.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	6.931	0.000	828531	4765.6	1	7.126	-0.000	704213	4841.5
Toxaphene	2	7.303	-0.000	2275106	4667.4	2	7.554	0.000	1533921	4690.3
Toxaphene	3	7.653	-0.000	1493693	4755.4	3	8.059	-0.001	1192086	4788.5
Toxaphene	4	7.986	0.000	2318449	5519.5	4	8.201	-0.001	3835448	4723.4
Toxaphene	5	8.081	-0.000	1509568	4758.0	5	8.958	-0.000	1957568	4914.8

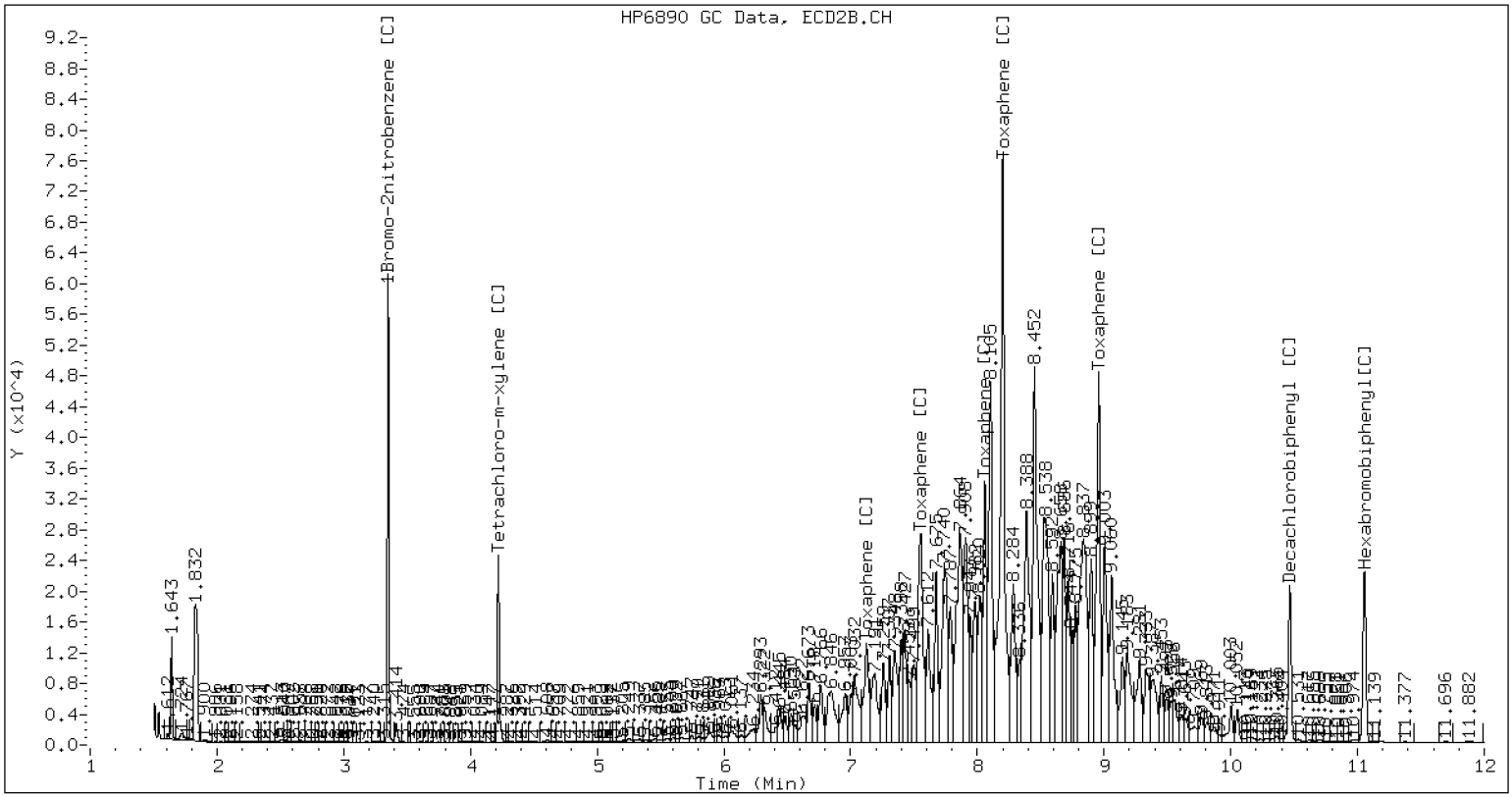
Total STX-CLPAve (5 peaks): 4893.192 Total CLP2Ave (5 peaks): 4791.694 RPD = 2
Corrected Ave (5 peaks): 4893.192 Corrected Ave (5 peaks): 4791.694 RPD = 2

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121433.D SEQ-CALAD CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121433.D
Data file 2: /20221214.b/B20221214.b/22121433.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAD
Client ID:
Injection Date: 15-DEC-2022 04:58
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121434.D
Data file 2: /20221214.b/B20221214.b/22121434.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAE
Client ID:
Injection Date: 15-DEC-2022 05:16
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	-0.000	626937	4.221	0.000	1016753	65.66	67.54	2.8	Tetrachloro-m-xylene
9.355	0.000	899917	10.467	0.000	1293767	145.37	151.89	4.4	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	702143	-1.2
Hexabromobiphenyl	641833	610983	-4.8

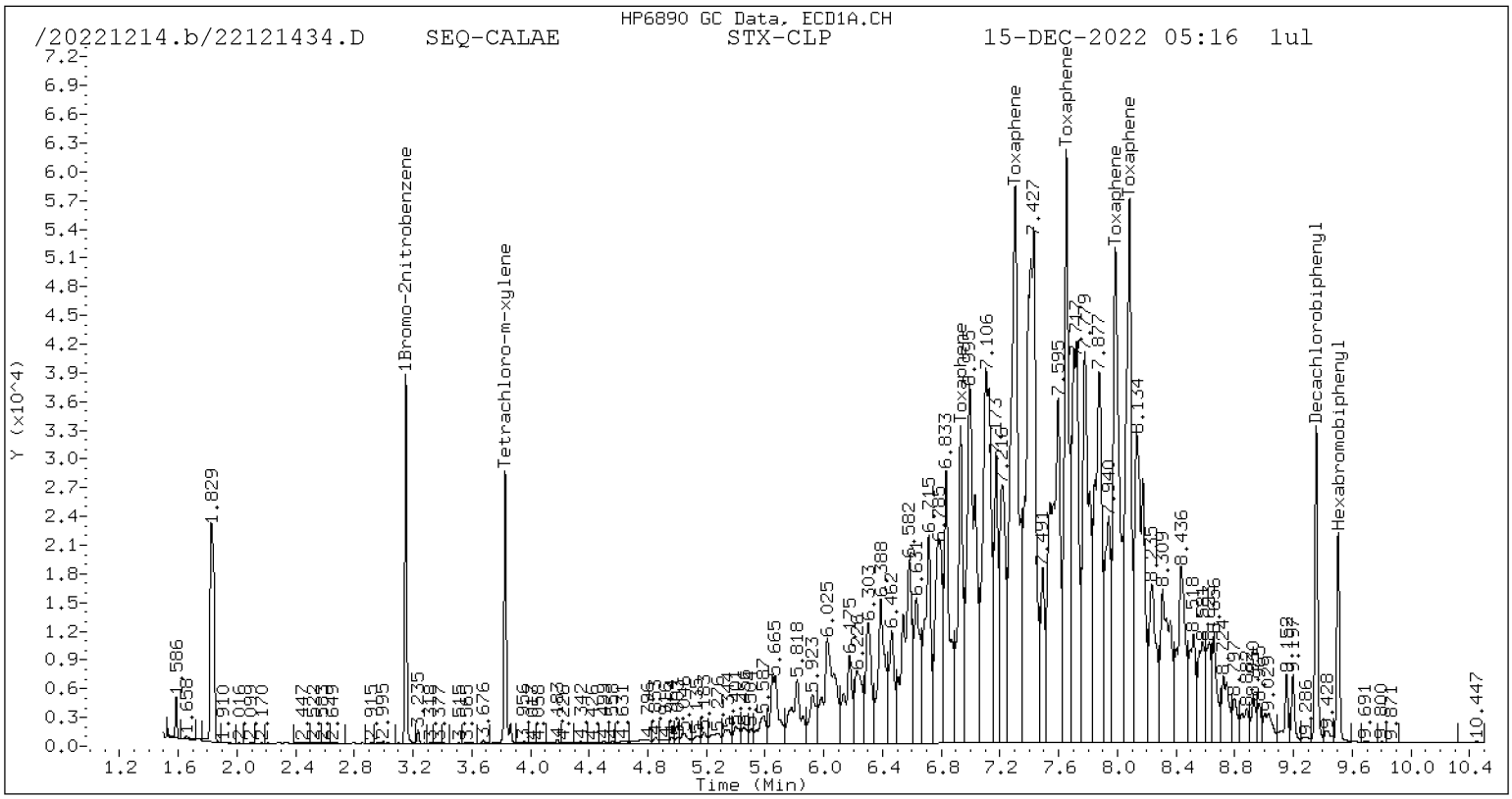
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1069521	1.0
Hexabromobiphenyl	797125	770702	-3.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

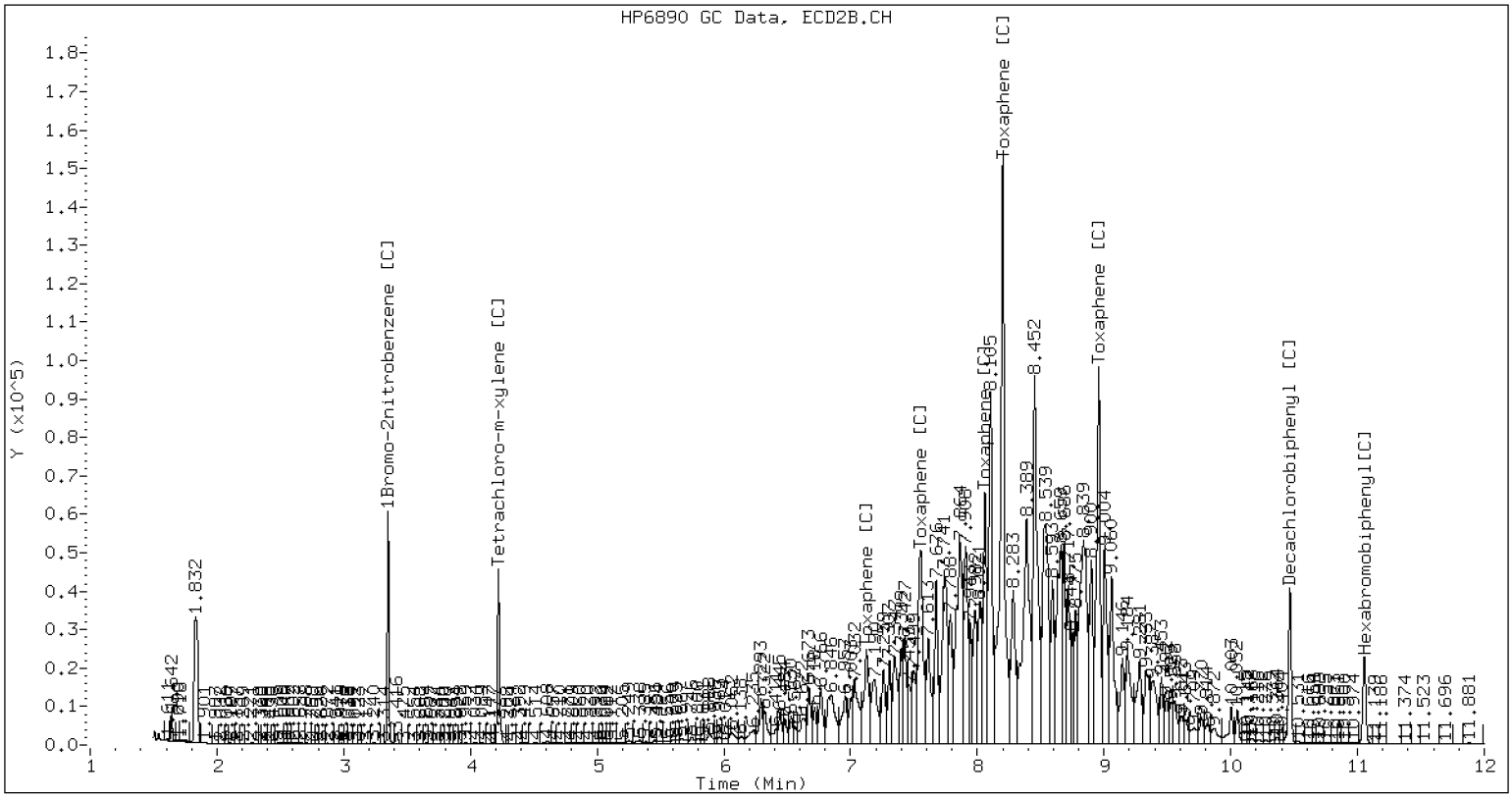
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	6.931	0.000	1553785	8707.6	1	7.126	0.000	1336419	9229.8	
Toxaphene	2	7.303	-0.000	4216546	8428.1	2	7.553	0.000	2900195	8908.4	
Toxaphene	3	7.653	-0.000	2652265	8227.0	3	8.060	0.000	2299294	9278.2	
Toxaphene	4	7.987	0.001	3225164	7480.8	4	8.201	0.000	7496819	9274.6	
Toxaphene	5	8.082	-0.000	2882252	8851.2	5	8.959	0.000	3913616	9870.7	
Total STX-CLPAve (5 peaks): 8338.950						Total CLP2Ave (5 peaks): 9312.318					RPD = 11
Corrected Ave (5 peaks): 8338.950						Corrected Ave (5 peaks): 9312.318					RPD = 11

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121434.D SEQ-CALAE CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121434.D
Data file 2: /20221214.b/B20221214.b/22121434.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAE
Client ID:
Injection Date: 15-DEC-2022 05:16
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23012012.D	Calibration Date:	12/14/2022
Sequence:	SLA0279	Injection Date:	01/20/23
Lab Sample ID:	SLA0279-ICV1	Injection Time:	20:15
Sequence Name:	INDAE		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Hexachlorobenzene	A	20.000	20.8	1.4298940	1.4902870		4.2	+/-20
Hexachlorobenzene [2C]	A	20.000	19.8	1.4591090	1.4416980		-1.2	+/-20
Decachlorobiphenyl	A	40.000	38.8	0.8105886	0.7862760		-3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.8	0.8841805	0.8356478		-5.5	+/-20
Tetrachlorometaxylene	A	40.000	40.1	1.0879510	1.0903240		0.2	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.4	1.1261070	1.1094550		-1.5	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012012.D
Data file 2: /20230120.b/B20230120.b/23012012.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-INDAICV1
Client ID:
Injection Date: 20-JAN-2023 20:15
Report Date: 01/24/2023 13:41
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.317	0.003	330819	4.835	0.001	505354	21.32	20.36	4.6	alpha-BHC
4.700	0.004	128491	5.311	0.001	189359	21.51	20.07	6.9	beta-BHC
4.882	0.004	280776	5.663	0.001	369489	22.15	18.08	20.2	delta-BHC
4.618	0.003	285938	5.230	0.001	435270	21.26	20.67	2.8	gamma-BHC (Lindane)
5.100	0.003	268568	5.757	0.001	402910	22.44	21.12	6.1	Heptachlor
5.422	0.004	285174	6.160	0.001	428227	21.26	19.66	7.8	Aldrin
6.096	0.003	245069	6.815	0.000	353734	21.07	19.64	7.0	Heptachlor epoxide b
6.539	0.003	226484	7.258	-0.001	303829	21.22	19.14	10.3	Endosulfan I
6.798	0.003	477076	7.552	-0.001	666707	41.61	38.01	9.0	Dieldrin
6.459	0.004	445257	7.342	-0.000	628092	41.83	39.05	6.9	4,4'-DDE
7.048	0.002	373670	7.877	-0.001	474365	36.90	37.38	1.3	Endrin
7.285	0.003	366965	8.088	-0.000	520063	40.26	39.99	0.7	Endosulfan II
7.106	0.004	374965	7.949	-0.000	506942	41.10	41.07	0.1	4,4'-DDD
8.148	0.002	334035	8.686	-0.001	452962	38.59	39.66	2.7	Endosulfan sulfate
7.398	0.003	388131	8.267	-0.000	518293	42.10	43.51	3.3	4,4'-DDT
7.884	0.003	812194	8.909	-0.000	1090122	198.82	206.79	3.9	Methoxychlor
8.421	0.002	383319	9.210	-0.000	480694	38.66	38.97	0.8	Endrin ketone
7.713	0.002	296720	8.419	-0.000	381491	40.81	41.58	1.9	Endrin aldehyde
6.237	0.003	250399	7.026	0.000	349191	21.20	19.44	8.7	trans-Chlordane
6.384	0.003	244157	7.185	-0.001	334336	20.61	19.03	8.0	cis-Chlordane
2.308	0.000	323621	2.486	-0.000	346080	19.91	14.69	30.2	Hexachlorobutadiene
4.159	0.003	300222	4.695	0.002	446287	20.84	19.76	5.3	Hexachlorobenzene
3.806	0.002	439297	4.199	0.001	686878	40.09	39.41	1.7	Tetrachloro-m-xylene
9.326	0.002	303659	10.429	-0.002	372874	38.80	37.80	2.6	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

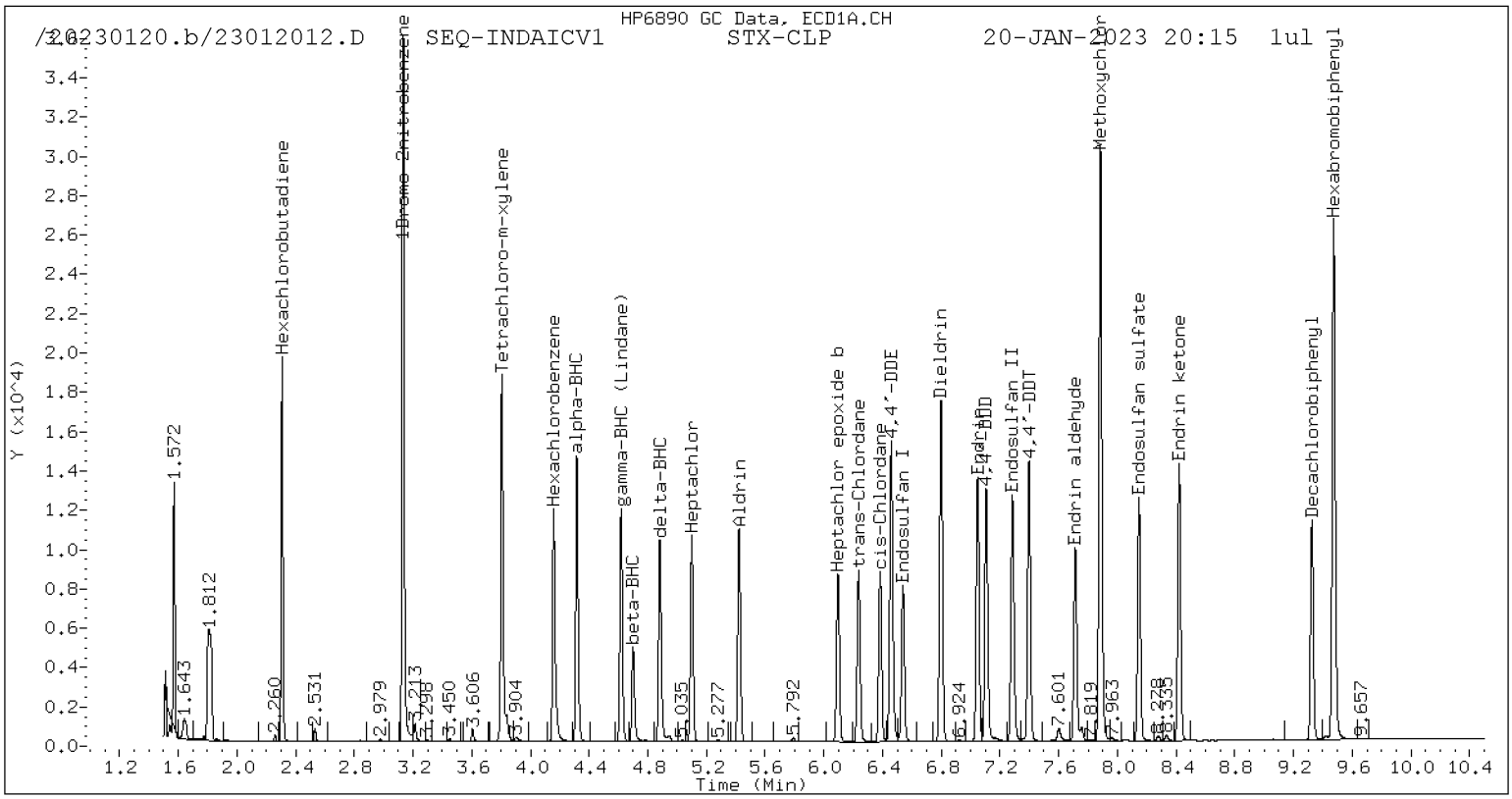
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	805810	19.8
Hexabromobiphenyl	609723	772398	26.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1238226	23.0
Hexabromobiphenyl	769764	892419	15.9

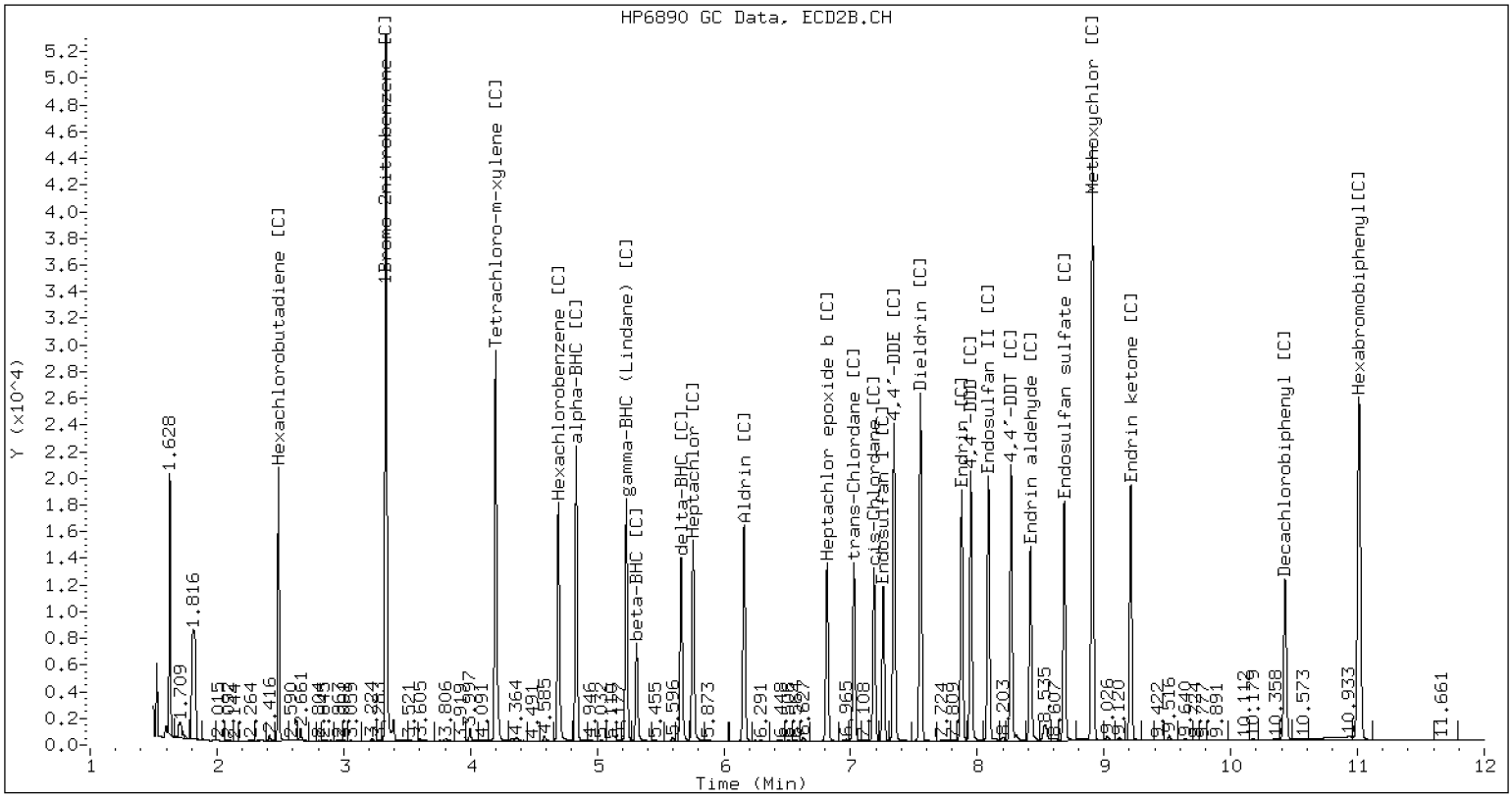
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230120.b/B20230120.b/23012012.D SEQ-INDAICV1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23012026.D	Calibration Date:	12/14/2022
Sequence:	SLA0279	Injection Date:	01/21/23
Lab Sample ID:	SLA0279-CCV1	Injection Time:	00:25
Sequence Name:	INDAE		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Hexachlorobenzene	A	20.000	20.6	1.4298940	1.4735670		3.1	+/-20
Hexachlorobenzene [2C]	A	20.000	19.2	1.4591090	1.3983260		-4.2	+/-20
Decachlorobiphenyl	A	40.000	38.5	0.8105886	0.7793014		-3.9	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.8	0.8841805	0.9010134		1.9	+/-20
Tetrachlorometaxylene	A	40.000	40.2	1.0879510	1.0947380		0.6	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.8	1.1261070	1.0920840		-3.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012026.D
Data file 2: /20230120.b/B20230120.b/23012026.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-INDACCV1
Client ID:
Injection Date: 21-JAN-2023 00:25
Report Date: 01/24/2023 13:42
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.317	0.003	330539	4.835	0.001	496889	21.28	19.84	7.0	alpha-BHC
4.700	0.004	124948	5.311	0.001	179711	20.89	18.87	10.2	beta-BHC
4.882	0.004	277049	5.663	0.001	358769	21.82	17.39	22.6	delta-BHC
4.618	0.003	285482	5.230	0.001	419158	21.20	19.72	7.2	gamma-BHC (Lindane)
5.100	0.003	266336	5.757	0.001	367631	22.22	19.09	15.2	Heptachlor
5.422	0.004	280153	6.159	0.000	391462	20.86	17.81	15.8	Aldrin
6.096	0.003	237207	6.815	0.000	319079	20.37	17.55	14.9	Heptachlor epoxide b
6.539	0.004	217386	7.259	-0.000	262018	20.34	16.35	21.7	Endosulfan I
6.798	0.003	459510	7.552	-0.000	576532	40.02	32.57	20.5	Dieldrin
6.459	0.004	434912	7.343	-0.000	541531	40.80	33.36	20.1	4,4'-DDE
7.049	0.003	342284	7.877	-0.000	388941	36.97	35.37	4.4	Endrin
7.285	0.003	349981	8.088	0.000	453997	41.99	40.28	4.2	Endosulfan II
7.107	0.004	356889	7.949	0.000	433340	42.79	40.51	5.5	4,4'-DDD
8.148	0.003	333834	8.686	-0.001	415736	42.18	42.00	0.4	Endosulfan sulfate
7.398	0.003	363655	8.267	0.000	443981	43.15	43.01	0.3	4,4'-DDT
7.885	0.003	787741	8.909	0.000	992135	210.91	217.17	2.9	Methoxychlor
8.422	0.003	371445	9.210	-0.000	450660	40.97	42.16	2.8	Endrin ketone
7.714	0.003	285947	8.419	-0.000	339072	43.01	42.65	0.9	Endrin aldehyde
6.237	0.004	242222	7.026	-0.000	302743	20.48	16.70	20.3	trans-Chlordane
6.384	0.003	235645	7.186	-0.000	288364	19.87	16.26	20.0	cis-Chlordane
2.308	-0.000	326793	2.485	-0.001	348569	20.08	14.65	31.2	Hexachlorobutadiene
4.159	0.003	297262	4.694	0.001	436929	20.61	19.17	7.3	Hexachlorobenzene
3.806	0.003	441682	4.199	0.001	682478	40.25	38.79	3.7	Tetrachloro-m-xylene
9.326	0.002	275169	10.429	-0.001	348407	38.46	40.76	5.8	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

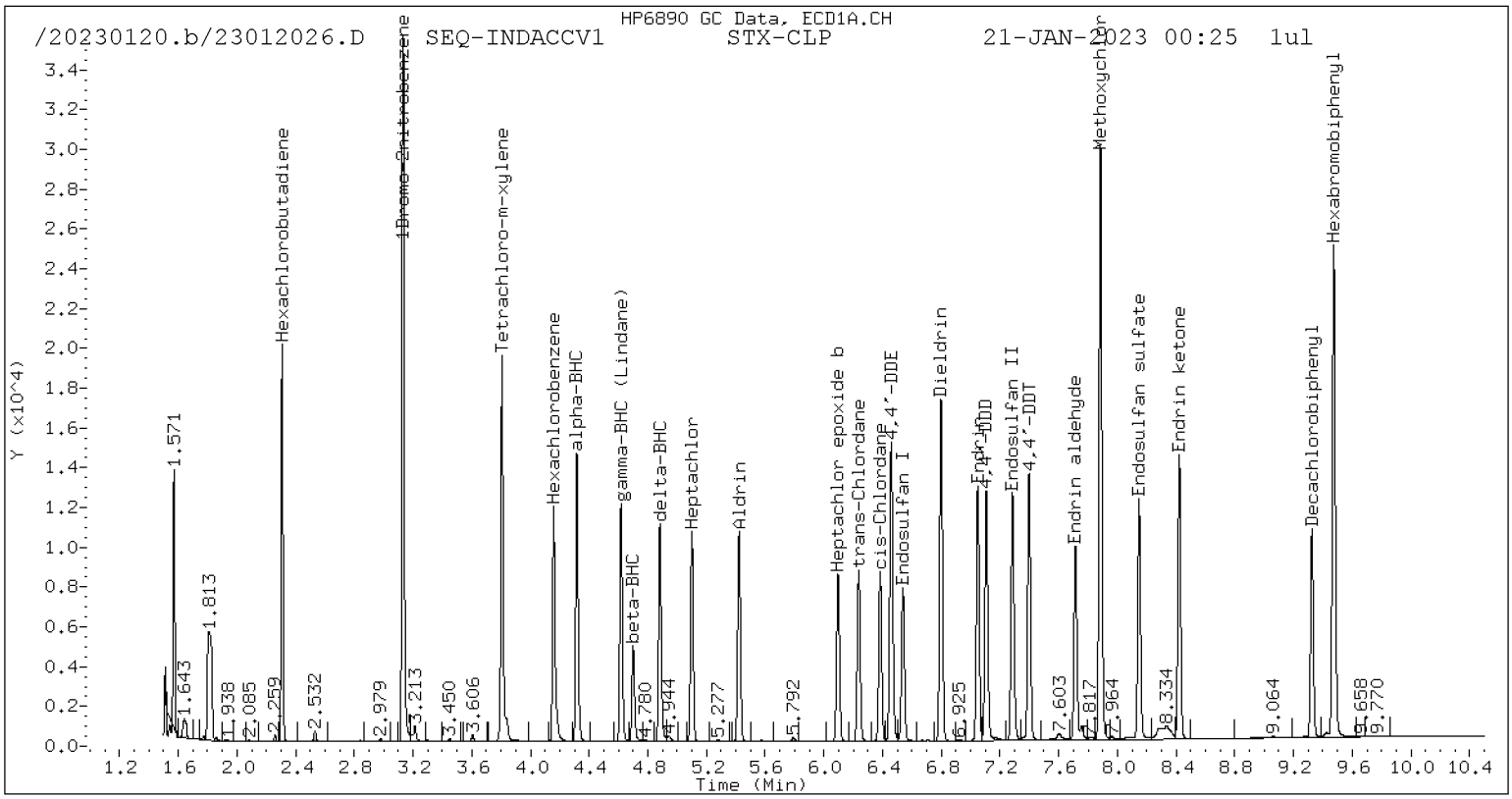
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	806918	20.0
Hexabromobiphenyl	609723	706194	15.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1249863	24.2
Hexabromobiphenyl	769764	773367	0.5

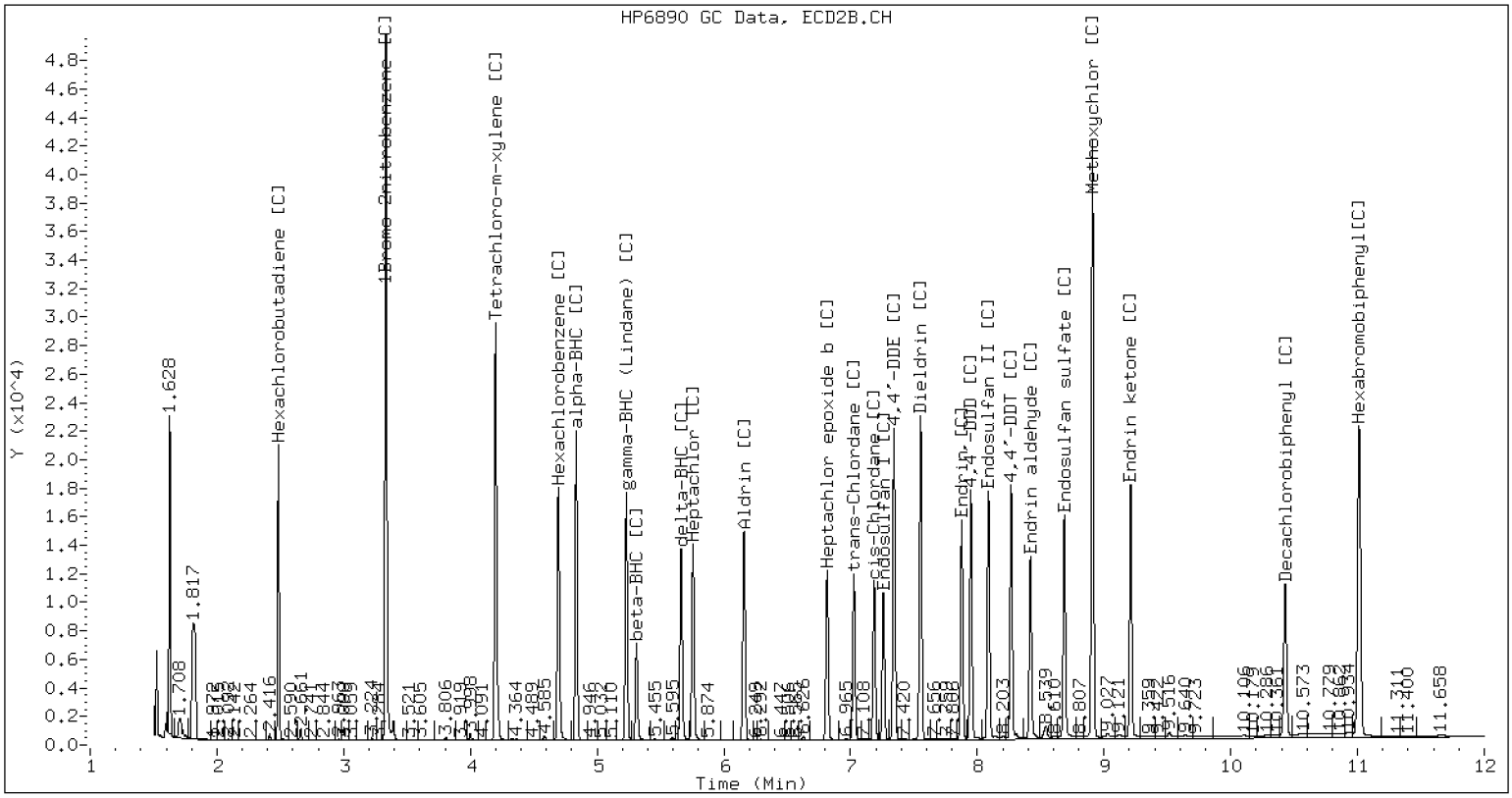
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230120.b/B20230120.b/23012026.D SEQ-INDACCV1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23012042.D	Calibration Date:	12/14/2022
Sequence:	SLA0279	Injection Date:	01/21/23
Lab Sample ID:	SLA0279-CCV2	Injection Time:	05:10
Sequence Name:	INDAE		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Hexachlorobenzene	A	20.000	20.4	1.4298940	1.4618330		2.2	+/-20
Hexachlorobenzene [2C]	A	20.000	19.8	1.4591090	1.4433180		-1.1	+/-20
Decachlorobiphenyl	A	40.000	38.3	0.8105886	0.7756756		-4.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.4	0.8841805	0.8488742		-4.0	+/-20
Tetrachlorometaxylene	A	40.000	39.8	1.0879510	1.0830120		-0.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.6	1.1261070	1.1141530		-1.1	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012042.D
Data file 2: /20230120.b/B20230120.b/23012042.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-INDACCV2
Client ID:
Injection Date: 21-JAN-2023 05:10
Report Date: 01/24/2023 13:43
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.316	0.003	339445	4.834	0.000	523625	21.14	20.43	3.4	alpha-BHC
4.699	0.003	129333	5.310	0.000	192357	20.92	19.75	5.8	beta-BHC
4.882	0.003	296995	5.662	0.000	382339	22.63	18.11	22.2	delta-BHC
4.618	0.003	294379	5.230	0.000	441599	21.14	20.31	4.0	gamma-BHC (Lindane)
5.099	0.002	278397	5.756	0.000	403698	22.47	20.49	9.2	Heptachlor
5.421	0.003	288686	6.158	-0.001	420538	20.80	18.70	10.6	Aldrin
6.095	0.002	245740	6.814	-0.001	340270	20.42	18.30	11.0	Heptachlor epoxide b
6.538	0.002	225434	7.258	-0.001	277072	20.41	16.90	18.8	Endosulfan I
6.797	0.002	474289	7.552	-0.001	608562	39.97	33.60	17.3	Dieldrin
6.458	0.004	448252	7.342	-0.000	571199	40.68	34.39	16.8	4,4'-DDE
7.048	0.002	327897	7.876	-0.001	375417	33.99	31.56	7.4	Endrin
7.285	0.003	361389	8.088	-0.000	468705	41.61	38.44	7.9	Endosulfan II
7.106	0.003	369415	7.949	-0.000	462685	42.50	39.98	6.1	4,4'-DDD
8.147	0.002	413080	8.686	-0.001	415378	50.09	38.79	25.4	Endosulfan sulfate
7.398	0.003	372947	8.267	-0.000	478417	42.46	42.83	0.9	4,4'-DDT
7.884	0.003	807344	8.908	-0.000	1031771	207.43	208.75	0.6	Methoxychlor
8.421	0.002	396999	9.210	-0.001	477435	42.02	41.28	1.8	Endrin ketone
7.714	0.002	292599	8.418	-0.001	355805	42.24	41.36	2.1	Endrin aldehyde
6.236	0.003	250330	7.026	-0.001	322297	20.48	17.38	16.4	trans-Chlordane
6.383	0.003	241512	7.185	-0.001	305687	19.70	16.85	15.6	cis-Chlordane
2.308	0.000	335197	2.486	-0.000	364318	19.93	14.97	28.4	Hexachlorobutadiene
4.158	0.002	304817	4.694	0.001	461359	20.45	19.78	3.3	Hexachlorobenzene
3.806	0.002	451653	4.198	0.001	712282	39.82	39.58	0.6	Tetrachloro-m-xylene
9.325	0.002	285418	10.429	-0.002	355135	38.28	38.40	0.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

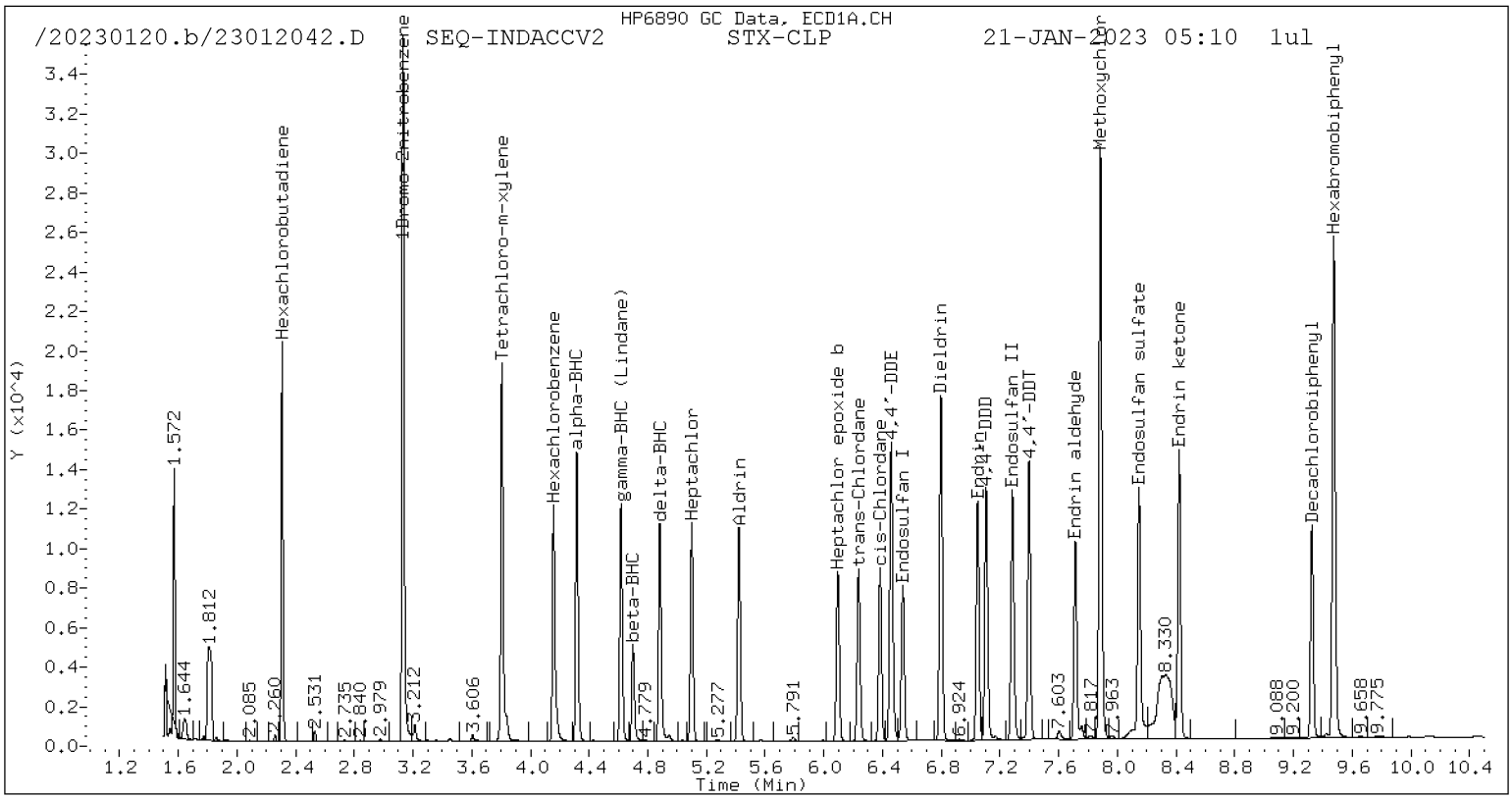
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	834068	24.0
Hexabromobiphenyl	609723	735921	20.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1278607	27.0
Hexabromobiphenyl	769764	836720	8.7

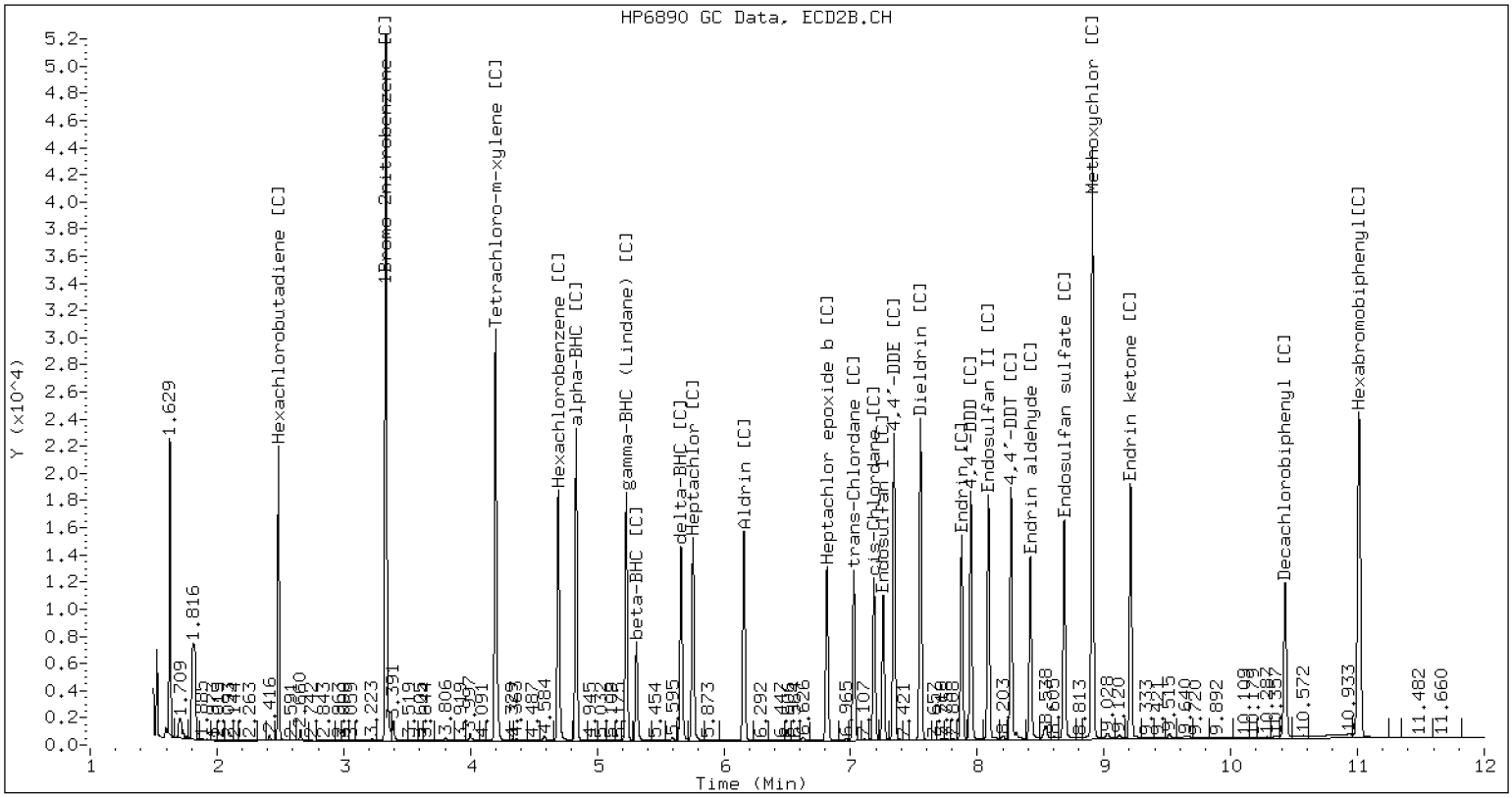
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230120.b/B20230120.b/23012042.D SEQ-INDACCV2 CLP2



CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23012054.D	Calibration Date:	12/14/2022
Sequence:	SLA0279	Injection Date:	01/21/23
Lab Sample ID:	SLA0279-CCV3	Injection Time:	08:44
Sequence Name:	INDAE		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Hexachlorobenzene	A	20.000	20.4	1.4298940	1.4574410		1.9	+/-20
Hexachlorobenzene [2C]	A	20.000	19.7	1.4591090	1.4382880		-1.4	+/-20
Decachlorobiphenyl	A	40.000	38.4	0.8105886	0.7775342		-4.1	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.6	0.8841805	0.8320677		-5.9	+/-20
Tetrachlorometaxylene	A	40.000	39.9	1.0879510	1.0859460		-0.2	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.4	1.1261070	1.1083160		-1.6	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230120.b/23012054.D
Data file 2: /20230120.b/B20230120.b/23012054.D
Method: \20230120.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-INDACCV3
Client ID:
Injection Date: 21-JAN-2023 08:44
Report Date: 01/24/2023 13:44
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.316	0.002	338558	4.834	-0.000	535194	21.02	20.58	2.1	alpha-BHC
4.699	0.003	128011	5.311	0.001	195893	20.64	19.81	4.1	beta-BHC
4.881	0.002	295148	5.662	0.000	396698	22.42	18.52	19.1	delta-BHC
4.617	0.002	292414	5.230	0.000	457582	20.94	20.73	1.0	gamma-BHC (Lindane)
5.099	0.002	275906	5.756	0.000	417389	22.20	20.88	6.2	Heptachlor
5.421	0.003	290308	6.159	-0.000	426098	20.84	18.66	11.0	Aldrin
6.095	0.002	246834	6.814	-0.001	349815	20.44	18.53	9.8	Heptachlor epoxide b
6.538	0.003	226262	7.258	-0.000	297074	20.42	17.86	13.4	Endosulfan I
6.797	0.002	478959	7.552	-0.001	641866	40.23	34.92	14.1	Dieldrin
6.458	0.004	450414	7.342	-0.000	608185	40.75	36.08	12.2	4,4'-DDE
7.047	0.001	310544	7.876	-0.001	380666	31.37	29.87	4.9	Endrin
7.285	0.003	372447	8.088	-0.000	507603	41.80	38.85	7.3	Endosulfan II
7.105	0.003	378221	7.949	-0.000	487970	42.41	39.36	7.5	4,4'-DDD
8.147	0.001	336719	8.686	-0.001	455099	39.80	39.67	0.3	Endosulfan sulfate
7.397	0.002	373718	8.267	-0.000	502556	41.47	42.00	1.3	4,4'-DDT
7.883	0.002	790098	8.909	-0.000	1077115	197.86	203.41	2.8	Methoxychlor
8.421	0.002	401418	9.210	-0.001	505253	41.41	40.78	1.6	Endrin ketone
7.713	0.002	313143	8.419	-0.001	392838	44.06	42.63	3.3	Endrin aldehyde
6.237	0.003	251587	7.026	-0.001	340532	20.51	18.09	12.6	trans-Chlordane
6.382	0.002	242915	7.185	-0.001	326290	19.75	17.72	10.8	cis-Chlordane
2.307	-0.000	336605	2.485	-0.001	369038	19.95	14.94	28.7	Hexachlorobutadiene
4.158	0.002	304878	4.694	0.001	466655	20.39	19.71	3.3	Hexachlorobenzene
3.806	0.002	454332	4.198	0.001	719190	39.93	39.37	1.4	Tetrachloro-m-xylene
9.325	0.002	293525	10.429	-0.001	372934	38.37	37.64	1.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

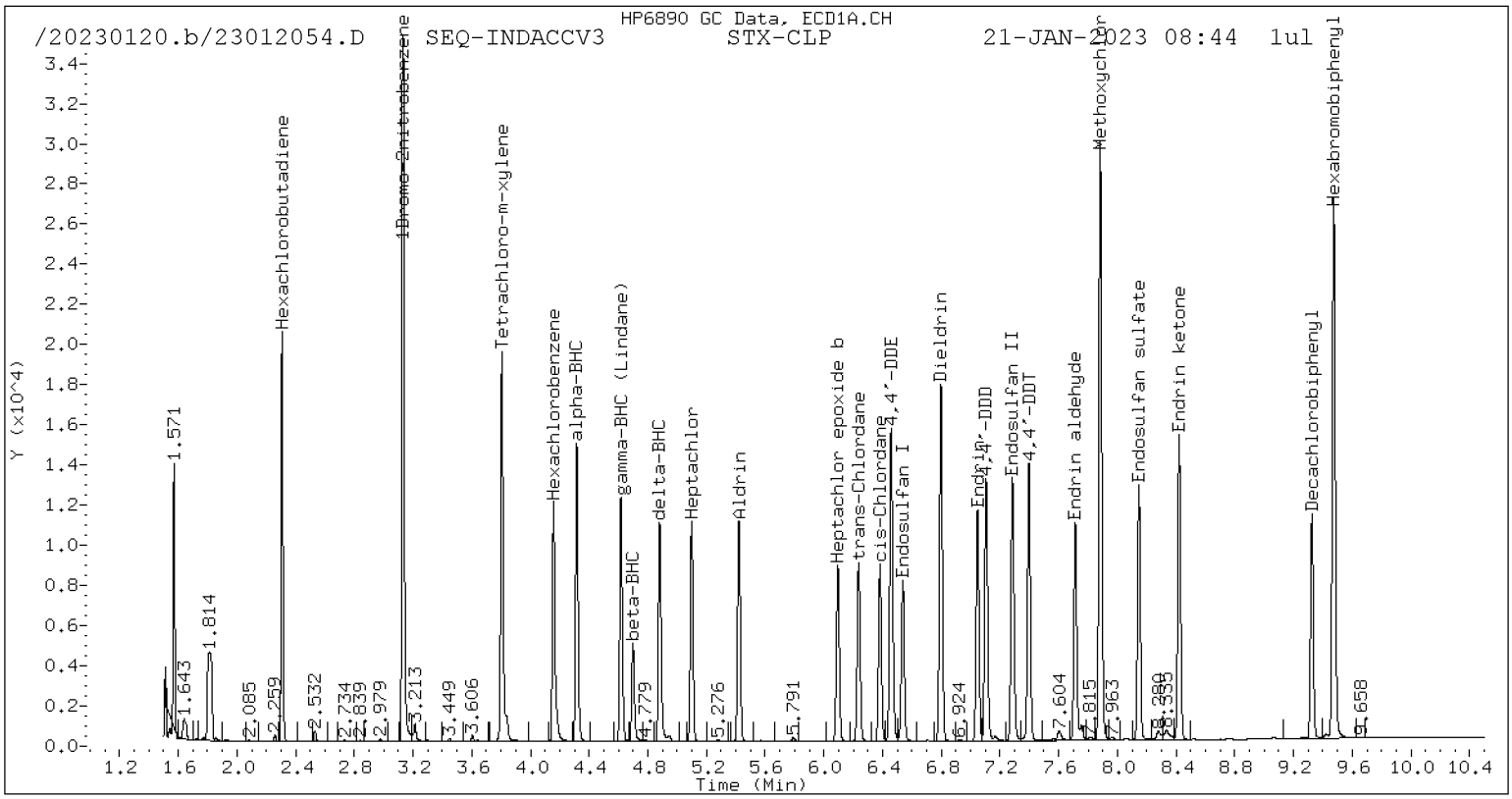
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	836749	24.4
Hexabromobiphenyl	609723	755015	23.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1297807	28.9
Hexabromobiphenyl	769764	896403	16.5

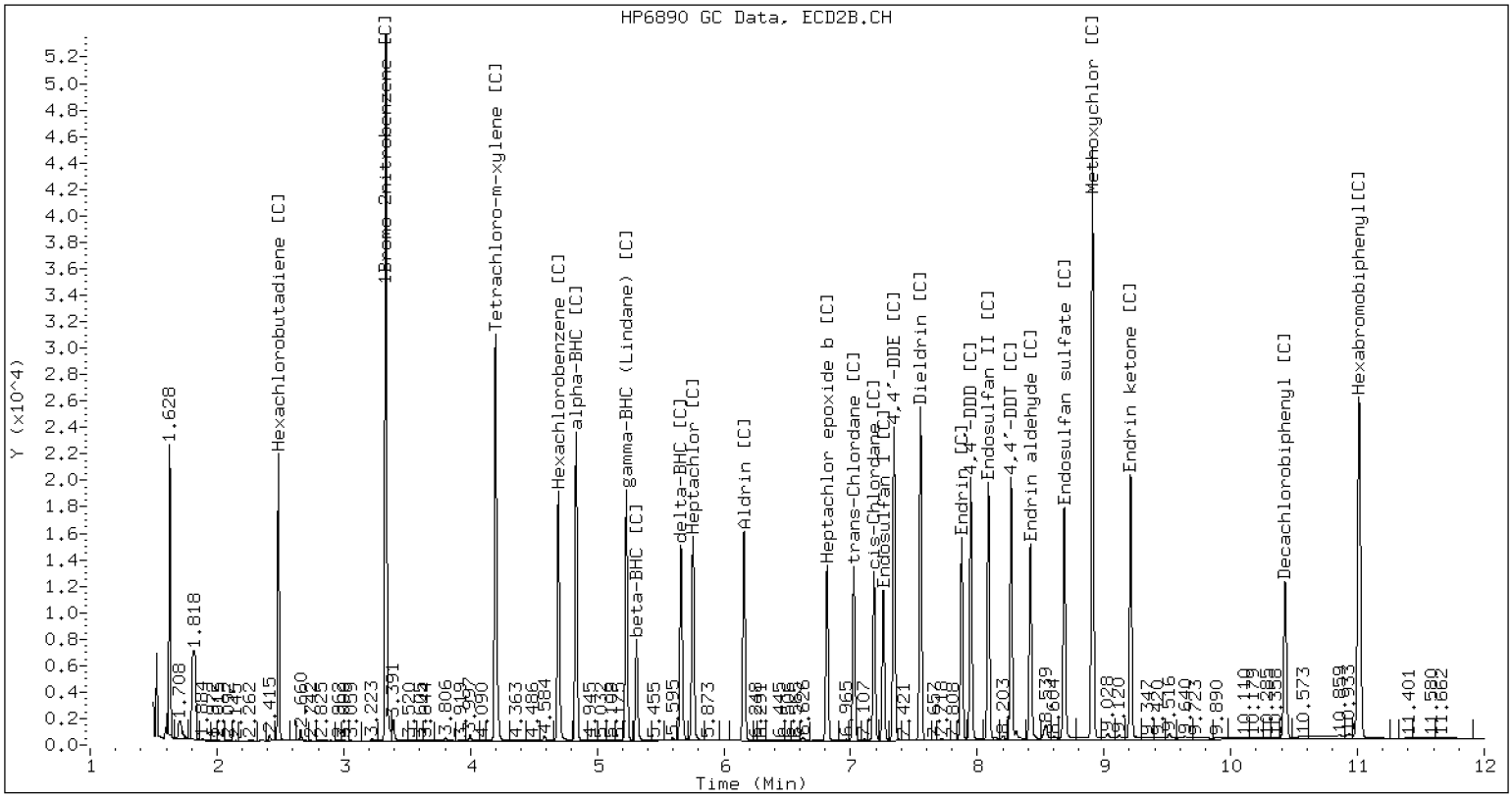
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230120.b/B20230120.b/23012054.D SEQ-INDACCV3 CLP2



CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS1

EPA 8081B

Laboratory:	Analytical Resources, LLC	Laboratory ID:	SKL0233-PEM1	File ID:	22121404.D
Client:	Anchor QEA, LLC	Matrix:	Water	Instrument:	ECD6
Project:	AOC5 MR Phase 1	Analyzed:	12/14/2022	Sequence:	SKL0233
SDG:	22L0459	Calibration:	FL00041	Column:	1

PEM COMPOUND	RT	Response
4,4'-DDE	6.49	6258
Endrin	7.08	745471
4,4'-DDD	7.14	15566
Endrin Aldehyde	7.75	21328
4,4'-DDT	7.43	629664
Endrin Ketone	8.45	19276

4,4'-DDT %Breakdown (1): 3.3

Endrin %Breakdown (1): 5.2

Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS1

EPA 8081B

Laboratory:	Analytical Resources, LLC	Laboratory ID:	SKL0233-PEM1	File ID:	22121404.D
Client:	Anchor QEA, LLC	Matrix:	Water	Instrument:	ECD6
Project:	AOC5 MR Phase 1	Analyzed:	12/14/2022	Sequence:	SKL0233
SDG:	22L0459	Calibration:	FL00041	Column:	2

PEM COMPOUND	RT	Response
4,4'-DDE	7.37	11906
Endrin	7.91	1029194
4,4'-DDD	7.98	32697
Endrin Aldehyde	8.45	31426
4,4'-DDT	8.30	890195
Endrin Ketone	9.24	28268

4,4'-DDT %Breakdown (1): 4.8

Endrin %Breakdown (1): 5.5

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D

Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.151	683485
4,4'-DDE	6.490	6258
Endrin	7.082	745471
4,4'-DDD	7.136	15566
4,4'-DDT	7.428	629664
Endrin ketone	8.453	19276
Endrin aldehyde	7.747	21328
Hexabromobiphenyl	9.504	619012
Tetrachloro-m-xylene	3.828	1161664
Decachlorobiphenyl	9.355	833312

DDT Percent Breakdown = 3.3 %
((6258+15566) * 100)/(6258+15566+629664)

Endrin Percent Breakdown = 5.2 %
((21328+19276) * 100)/(21328+19276+745471)

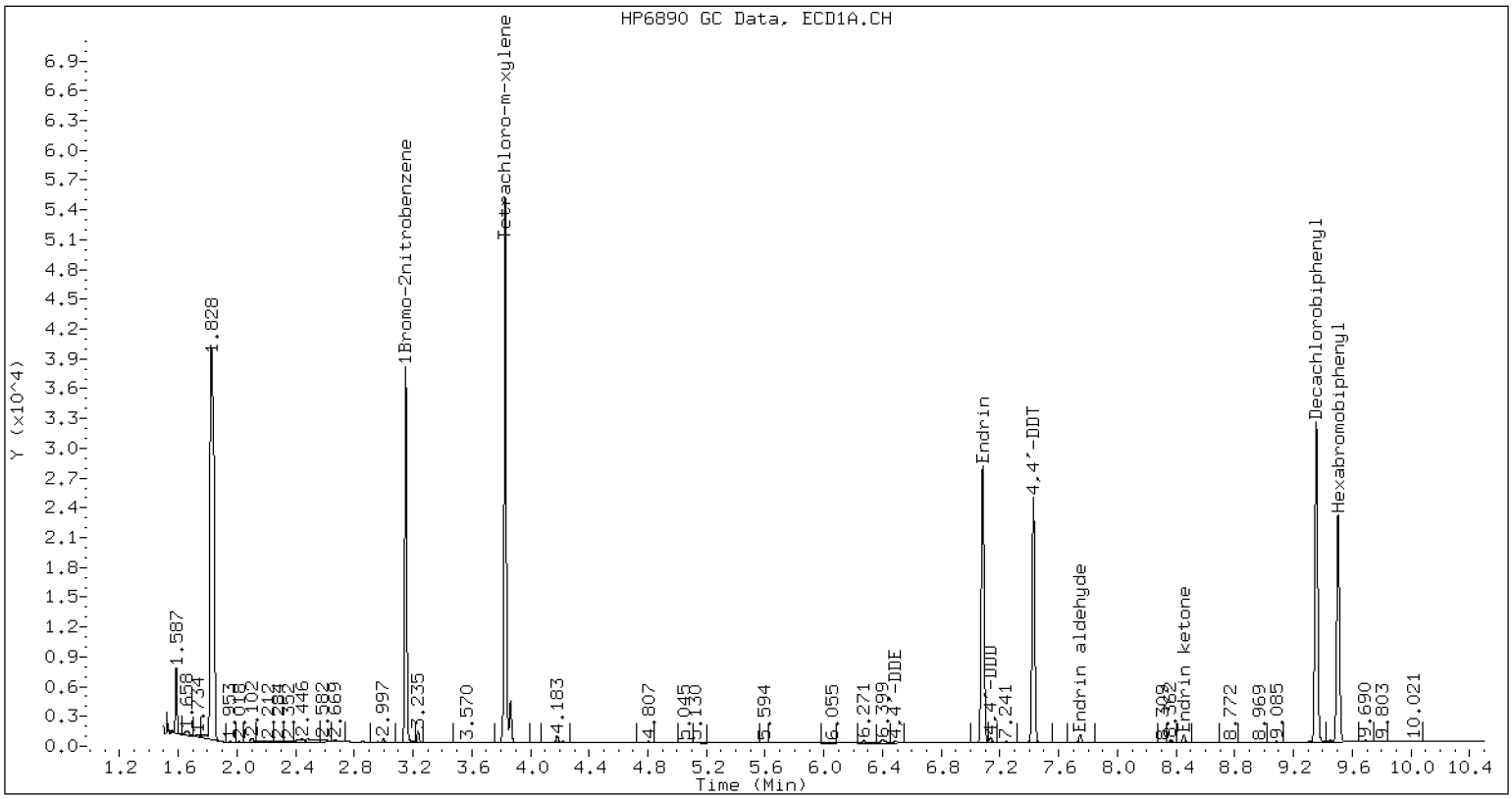
GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.350	1005375
4,4'-DDE [C]	7.370	11906
Endrin [C]	7.907	1029194
4,4'-DDD [C]	7.977	32697
4,4'-DDT [C]	8.295	890195
Endrin ketone [C]	9.239	28268
Endrin aldehyde [C]	8.448	31426
Hexabromobiphenyl[C]	11.054	772586
Tetrachloro-m-xylene [C]	4.220	1890294
Decachlorobiphenyl [C]	10.467	1140978

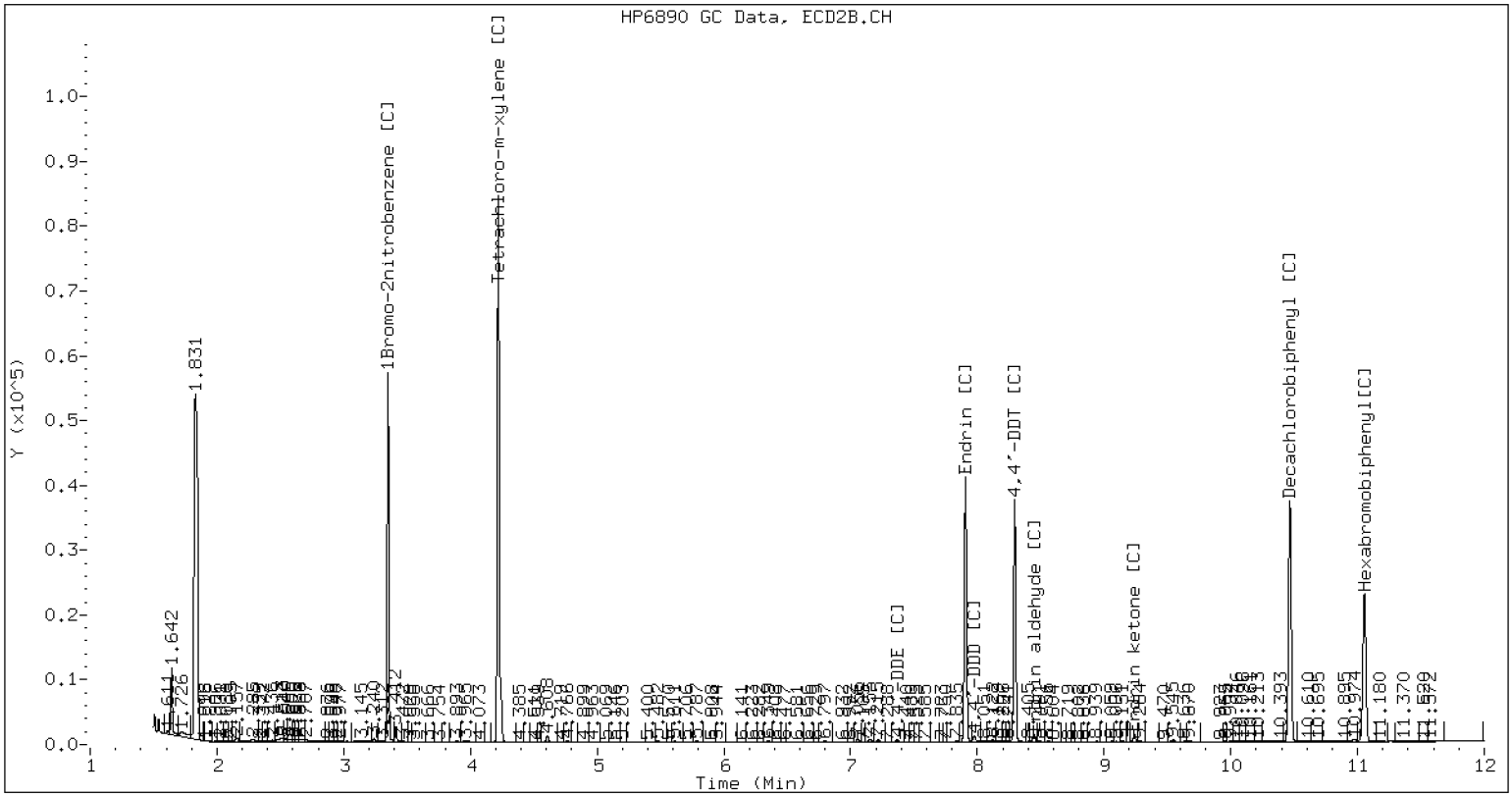
DDT Percent Breakdown = 4.8 %
((11906+32697) * 100)/(11906+32697+890195)

Endrin Percent Breakdown = 5.5 %
((31426+28268) * 100)/(31426+28268+1029194)

/20221214.b/22121404.D SEQ-PEM1 STX-CLP 14-DEC-2022 20:20 1ul



/20221214.b/B20221214.b/22121404.D SEQ-PEM1 CLP2 14-DEC-2022



7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D

Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.151	683485
4,4'-DDE	6.490	6258
Endrin	7.082	745471
4,4'-DDD	7.136	15566
4,4'-DDT	7.428	629664
Endrin ketone	8.453	19276
Endrin aldehyde	7.747	21328
Hexabromobiphenyl	9.504	619012
Tetrachloro-m-xylene	3.828	1161664
Decachlorobiphenyl	9.355	833312

DDT Percent Breakdown = 3.3 %
((6258+15566) * 100)/(6258+15566+629664)

Endrin Percent Breakdown = 5.2 %
((21328+19276) * 100)/(21328+19276+745471)

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312

Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SKL0233
Instrument: ECD6
Calibration: FL00041

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Performance Mix	SKL0233-PEM1	22121404.D	22121404.D	NA	12/14/22 20:20
Cal Standard	SKL0233-CAL1	22121405.D	22121405.D	NA	12/14/22 20:38
Cal Standard	SKL0233-CAL2	22121406.D	22121406.D	NA	12/14/22 20:56
Cal Standard	SKL0233-CAL3	22121407.D	22121407.D	NA	12/14/22 21:14
Cal Standard	SKL0233-CAL4	22121408.D	22121408.D	NA	12/14/22 21:31
Cal Standard	SKL0233-CAL5	22121409.D	22121409.D	NA	12/14/22 21:49
Cal Standard	SKL0233-CAL6	22121410.D	22121410.D	NA	12/14/22 22:07
Cal Standard	SKL0233-CAL7	22121411.D	22121411.D	NA	12/14/22 22:25
Cal Standard	SKL0233-CAL8	22121412.D	22121412.D	NA	12/14/22 22:43
Cal Standard	SKL0233-CAL9	22121413.D	22121413.D	NA	12/14/22 23:01
Cal Standard	SKL0233-CALA	22121414.D	22121414.D	NA	12/14/22 23:19
Cal Standard	SKL0233-CALB	22121415.D	22121415.D	NA	12/14/22 23:36
Cal Standard	SKL0233-CALC	22121416.D	22121416.D	NA	12/14/22 23:54
Cal Standard	SKL0233-CALD	22121417.D	22121417.D	NA	12/15/22 00:12
Cal Standard	SKL0233-CALE	22121418.D	22121418.D	NA	12/15/22 00:30

Printed: 12/17/2022 10:57:45AM

ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6 Element Column ID:
Calibration ID: FL00041

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0233-PEM1	DS1	QC		1	K007286	K006953		
SKL0233-CAL1	INDAA	QC		2	K011594	K006953		
SKL0233-CAL2	INDAB	QC		3	K011593	K006953		
SKL0233-CAL3	INDAC	QC		4	K011592	K006953		
SKL0233-CAL4	INDAD	QC		5	K011591	K006953		
SKL0233-CAL5	INDAE	QC		6	K011590	K006953		
SKL0233-CAL6	INDAF	QC		7	K011589	K006953		
SKL0233-CAL7	INDAG	QC		8	K011463	K006953		
SKL0233-CAL8	WNDA	QC		9	K011595	K006953		
SKL0233-CAL9	WNDB	QC		10	K007148	K006953		
SKL0233-CALA	WNDC	QC		11	K007147	K006953		
SKL0233-CALB	WNDD	QC		12	K007146	K006953		
SKL0233-CALC	WNDE	QC		13	K007145	K006953		
SKL0233-CALD	WNDF	QC		14	K007144	K006953		
SKL0233-CALE	WNDG	QC		15	K007093	K006953		
SKL0233-CALM	NOS1	QC		16	K007375	K006953		
SKL0233-CALN	NOS2	QC		17	K007374	K006953		
SKL0233-CALO	NOS3	QC		18	K007373	K006953		
SKL0233-CALP	NOS4	QC		19	K007372	K006953		
SKL0233-CALQ	NOS5	QC		20	K007371	K006953		
SKL0233-CALR	NOS6	QC		21	K007370	K006953		
SKL0233-CALS	NOS7	QC		22	K007287	K006953		

Printed: 12/17/2022 10:57:45AM

ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6 Element Column ID:
Calibration ID: FL00041

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0233-CALF	TOXAPH1	QC		23	K011601	K006953		
SKL0233-CALG	TOXAPH2	QC		24	K011600	K006953		
SKL0233-CALH	TOXAPH3	QC		25	K011599	K006953		
SKL0233-CALI	TOXAPH4	QC		26	K011598	K006953		
SKL0233-CALJ	TOXAPH5	QC		27	K011597	K006953		
SKL0233-CALK	TOXAPH6	QC		28	K011596	K006953		
SKL0233-CALL	TOXAPH7	QC		29	K008546	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	14-DEC-2022 19:27	22121401.D	1	RINSE	
2	14-DEC-2022 19:44	22121402.D	1	RINSE	
3	14-DEC-2022 20:02	22121403.D	1	SEQ-IBL1	
4	14-DEC-2022 20:20	22121404.D	1	SEQ-PEM1	
5	14-DEC-2022 20:38	22121405.D	1	SEQ-CAL1	
6	14-DEC-2022 20:56	22121406.D	1	SEQ-CAL2	
7	14-DEC-2022 21:14	22121407.D	1	SEQ-CAL3	
8	14-DEC-2022 21:31	22121408.D	1	SEQ-CAL4	
9	14-DEC-2022 21:49	22121409.D	1	SEQ-CAL5	
10	14-DEC-2022 22:07	22121410.D	1	SEQ-CAL6	
11	14-DEC-2022 22:25	22121411.D	1	SEQ-CAL7	
12	14-DEC-2022 22:43	22121412.D	1	SEQ-CAL8	
13	14-DEC-2022 23:01	22121413.D	1	SEQ-CAL9	
14	14-DEC-2022 23:19	22121414.D	1	SEQ-CALA	
15	14-DEC-2022 23:36	22121415.D	1	SEQ-CALB	
16	14-DEC-2022 23:54	22121416.D	1	SEQ-CALC	
17	15-DEC-2022 00:12	22121417.D	1	SEQ-CALD	
18	15-DEC-2022 00:30	22121418.D	1	SEQ-CALE	
19	15-DEC-2022 00:48	22121419.D	1	SEQ-SCV1	
20	15-DEC-2022 01:06	22121420.D	1	SEQ-SCV2	
21	15-DEC-2022 01:24	22121421.D	1	SEQ-CAL1A	
22	15-DEC-2022 01:42	22121422.D	1	SEQ-CAL2A	
23	15-DEC-2022 01:59	22121423.D	1	SEQ-CAL3A	
24	15-DEC-2022 02:17	22121424.D	1	SEQ-CAL4A	
25	15-DEC-2022 02:35	22121425.D	1	SEQ-CAL5A	
26	15-DEC-2022 02:53	22121426.D	1	SEQ-CAL6A	
27	15-DEC-2022 03:11	22121427.D	1	SEQ-CAL7A	
28	15-DEC-2022 03:29	22121428.D	1	SEQ-CAL8A	
29	15-DEC-2022 03:46	22121429.D	1	SEQ-CAL9A	
30	15-DEC-2022 04:04	22121430.D	1	SEQ-CALAA	
31	15-DEC-2022 04:22	22121431.D	1	SEQ-CALAB	
32	15-DEC-2022 04:40	22121432.D	1	SEQ-CALAC	
33	15-DEC-2022 04:58	22121433.D	1	SEQ-CALAD	
34	15-DEC-2022 05:16	22121434.D	1	SEQ-CALAE	
35	15-DEC-2022 05:33	22121435.D	1	SEQ-PEM2	
36	15-DEC-2022 05:51	22121436.D	1	SEQ-ICV1	
37	15-DEC-2022 06:09	22121437.D	1	SEQ-ICV2	
38	15-DEC-2022 06:27	22121438.D	1	SEQ-ICV3	
39	15-DEC-2022 06:45	22121439.D	1	SEQ-ICV4	
40	15-DEC-2022 07:03	22121440.D	1	BKK0688-BLK1	
41	15-DEC-2022 07:21	22121441.D	1	BKK0688-BS1	
42	15-DEC-2022 07:39	22121442.D	1	BKK0688-BS2	
43	15-DEC-2022 07:57	22121443.D	1	BKK0688-BS3	
44	15-DEC-2022 08:15	22121444.D	1	BKK0688-BSD1	
45	15-DEC-2022 08:32	22121445.D	1	BKK0142-BLK1	
46	15-DEC-2022 08:50	22121446.D	1	BKK0142-BS1	
47	15-DEC-2022 09:08	22121447.D	1	BKK0142-BS2	
48	15-DEC-2022 09:26	22121448.D	1	BKK0142-BSD1	
49	15-DEC-2022 09:44	22121449.D	1	BKK0142-MS1	
50	15-DEC-2022 10:02	22121450.D	1	BKK0142-MSD1	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b p

	Inject Date/Time	Filename	DF	LabID	ClientID
51	15-DEC-2022 10:20	22121451.D	1	22J0513-01	
52	15-DEC-2022 10:38	22121452.D	1	22J0513-04	
53	15-DEC-2022 10:55	22121453.D	1	22J0535-01	
54	15-DEC-2022 11:13	22121454.D	1	22K0429-01	
55	15-DEC-2022 11:31	22121455.D	1	22K0429-02	
56	15-DEC-2022 11:49	22121456.D	1	22K0429-03	
57	15-DEC-2022 12:07	22121457.D	1	SEQ-PEM3	
58	15-DEC-2022 12:25	22121458.D	1	SEQ-CCV1	
59	15-DEC-2022 12:43	22121459.D	1	SEQ-CCV2	
60	15-DEC-2022 13:01	22121460.D	1	SEQ-CCV3	
61	15-DEC-2022 13:19	22121461.D	1	SEQ-CCV4	
62	15-DEC-2022 13:36	22121462.D	1	BKK0380-BLK1	
63	15-DEC-2022 13:54	22121463.D	1	BKK0380-BS1	
64	15-DEC-2022 14:12	22121464.D	1	BKK0380-BSD1	
65	15-DEC-2022 14:30	22121465.D	1	22K0157-01	
66	15-DEC-2022 14:48	22121466.D	1	22K0230-01	
67	15-DEC-2022 15:06	22121467.D	1	22K0231-01	
68	15-DEC-2022 15:24	22121468.D	1	BKK0382-BLK1	
69	15-DEC-2022 15:42	22121469.D	1	BKK0382-BS1	
70	15-DEC-2022 16:00	22121470.D	1	BKK0382-BS2	
71	15-DEC-2022 16:18	22121471.D	1	BKK0382-BSD1	
72	15-DEC-2022 16:35	22121472.D	1	22K0075-01	
73	15-DEC-2022 16:53	22121473.D	1	SEQ-PEM4	
74	15-DEC-2022 17:11	22121474.D	1	SEQ-CCV5	
75	15-DEC-2022 17:29	22121475.D	1	SEQ-CCV6	
76	15-DEC-2022 17:47	22121476.D	1	SEQ-CCV7	
77	15-DEC-2022 18:05	22121477.D	1	SEQ-CCV8	
78	15-DEC-2022 18:23	22121478.D	1	BKK0537-BLK1	
79	15-DEC-2022 18:40	22121479.D	1	BKK0537-BS1	
80	15-DEC-2022 18:58	22121480.D	1	BKK0537-BS2	
81	15-DEC-2022 19:16	22121481.D	1	22K0194-01	
82	15-DEC-2022 19:34	22121482.D	1	22K0194-01RE1	10
83	15-DEC-2022 19:52	22121483.D	1	SEQ-PEM5	
84	15-DEC-2022 20:09	22121484.D	1	SEQ-CCV9	
85	15-DEC-2022 20:27	22121485.D	1	SEQ-CCVA	
86	15-DEC-2022 20:45	22121486.D	1	SEQ-CCVB	
87	15-DEC-2022 21:03	22121487.D	1	SEQ-CCVC	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

ARI Job No.: RINS Method: PEST.m Instrument: ecd6.i Date: 14-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1927	22121401.D	RINSE		1	NO MANUAL INTEGRATION
1944	22121402.D	RINSE		1	NO MANUAL INTEGRATION
2002	22121403.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
2020	22121404.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
2038	22121405.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
2056	22121406.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
2114	22121407.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
2131	22121408.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
2149	22121409.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
2207	22121410.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
2225	22121411.D	SEQ-CAL7		1	NO MANUAL INTEGRATION
2243	22121412.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
2301	22121413.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
2319	22121414.D	SEQ-CALA		1	NO MANUAL INTEGRATION
2336	22121415.D	SEQ-CALB		1	NO MANUAL INTEGRATION
2354	22121416.D	SEQ-CALC		1	NO MANUAL INTEGRATION
0012	22121417.D	SEQ-CALD		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0030	22121418.D	SEQ-CALE		1	NO MANUAL INTEGRATION
0048	22121419.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
0106	22121420.D	SEQ-SCV2		1	NO MANUAL INTEGRATION
0124	22121421.D	SEQ-CAL1A		1	NO MANUAL INTEGRATION
0142	22121422.D	SEQ-CAL2A		1	NO MANUAL INTEGRATION
0159	22121423.D	SEQ-CAL3A		1	NO MANUAL INTEGRATION
0217	22121424.D	SEQ-CAL4A		1	NO MANUAL INTEGRATION
0235	22121425.D	SEQ-CAL5A		1	NO MANUAL INTEGRATION
0253	22121426.D	SEQ-CAL6A		1	NO MANUAL INTEGRATION
0311	22121427.D	SEQ-CAL7A		1	NO MANUAL INTEGRATION
0329	22121428.D	SEQ-CAL8A		1	NO MANUAL INTEGRATION
0346	22121429.D	SEQ-CAL9A		1	NO MANUAL INTEGRATION
0404	22121430.D	SEQ-CALAA		1	NO MANUAL INTEGRATION
0422	22121431.D	SEQ-CALAB		1	NO MANUAL INTEGRATION
0440	22121432.D	SEQ-CALAC		1	NO MANUAL INTEGRATION
0458	22121433.D	SEQ-CALAD		1	NO MANUAL INTEGRATION
0516	22121434.D	SEQ-CALAE		1	NO MANUAL INTEGRATION
0533	22121435.D	SEQ-PEM2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0551	22121436.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
0609	22121437.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
0627	22121438.D	SEQ-ICV3		1	NO MANUAL INTEGRATION
0645	22121439.D	SEQ-ICV4		1	NO MANUAL INTEGRATION
0703	22121440.D	BKK0688-BLK1		1	NO MANUAL INTEGRATION
0721	22121441.D	BKK0688-BS1		1	NO MANUAL INTEGRATION
0739	22121442.D	BKK0688-BS2		1	NO MANUAL INTEGRATION
0757	22121443.D	BKK0688-BS3		1	NO MANUAL INTEGRATION
0815	22121444.D	BKK0688-BSD1		1	NO MANUAL INTEGRATION
0832	22121445.D	BKK0142-BLK1		1	NO MANUAL INTEGRATION
0850	22121446.D	BKK0142-BS1		1	NO MANUAL INTEGRATION
0908	22121447.D	BKK0142-BS2		1	NO MANUAL INTEGRATION
0926	22121448.D	BKK0142-BSD1		1	NO MANUAL INTEGRATION
0944	22121449.D	BKK0142-MS1		1	NO MANUAL INTEGRATION
1002	22121450.D	BKK0142-MSD1		1	NO MANUAL INTEGRATION
1020	22121451.D	22J0513-01		1	NO MANUAL INTEGRATION
1038	22121452.D	22J0513-04		1	NO MANUAL INTEGRATION
1055	22121453.D	22J0535-01		1	trans-Chlordane,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1113	22121454.D	22K0429-01		1	Heptachlor epoxide b,
1131	22121455.D	22K0429-02		1	Heptachlor epoxide b,
1149	22121456.D	22K0429-03		1	Hexachlorobenzene,
1207	22121457.D	SEQ-PEM3		1	NO MANUAL INTEGRATION
1225	22121458.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
1243	22121459.D	SEQ-CCV2		1	NO MANUAL INTEGRATION
1301	22121460.D	SEQ-CCV3		1	NO MANUAL INTEGRATION
1319	22121461.D	SEQ-CCV4		1	NO MANUAL INTEGRATION
1336	22121462.D	BKK0380-BLK1		1	NO MANUAL INTEGRATION
1354	22121463.D	BKK0380-BS1		1	NO MANUAL INTEGRATION
1412	22121464.D	BKK0380-BSD1		1	NO MANUAL INTEGRATION
1430	22121465.D	22K0157-01		1	NO MANUAL INTEGRATION
1448	22121466.D	22K0230-01		1	NO MANUAL INTEGRATION
1506	22121467.D	22K0231-01		1	NO MANUAL INTEGRATION
1524	22121468.D	BKK0382-BLK1		1	NO MANUAL INTEGRATION
1542	22121469.D	BKK0382-BS1		1	NO MANUAL INTEGRATION
1600	22121470.D	BKK0382-BS2		1	NO MANUAL INTEGRATION
1618	22121471.D	BKK0382-BSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1635	22121472.D	22K0075-01		1	NO MANUAL INTEGRATION
1653	22121473.D	SEQ-PEM4		1	NO MANUAL INTEGRATION
1711	22121474.D	SEQ-CCV5		1	NO MANUAL INTEGRATION
1729	22121475.D	SEQ-CCV6		1	NO MANUAL INTEGRATION
1747	22121476.D	SEQ-CCV7		1	NO MANUAL INTEGRATION
1805	22121477.D	SEQ-CCV8		1	NO MANUAL INTEGRATION
1823	22121478.D	BKK0537-BLK1		1	NO MANUAL INTEGRATION
1840	22121479.D	BKK0537-BS1		1	NO MANUAL INTEGRATION
1858	22121480.D	BKK0537-BS2		1	NO MANUAL INTEGRATION
1916	22121481.D	22K0194-01		1	NO MANUAL INTEGRATION
1934	22121482.D	22K0194-01RE1	10	1	NO MANUAL INTEGRATION
1952	22121483.D	SEQ-PEM5		1	NO MANUAL INTEGRATION
2009	22121484.D	SEQ-CCV9		1	NO MANUAL INTEGRATION
2027	22121485.D	SEQ-CCVA		1	NO MANUAL INTEGRATION
2045	22121486.D	SEQ-CCVB		1	NO MANUAL INTEGRATION
2103	22121487.D	SEQ-CCVC		1	NO MANUAL INTEGRATION
1927	22121401.D	RINSE		1	NO MANUAL INTEGRATION
1944	22121402.D	RINSE		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2002	22121403.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
2020	22121404.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
2038	22121405.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
2056	22121406.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
2114	22121407.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
2131	22121408.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
2149	22121409.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
2207	22121410.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
2225	22121411.D	SEQ-CAL7		1	NO MANUAL INTEGRATION
2243	22121412.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
2301	22121413.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
2319	22121414.D	SEQ-CALA		1	NO MANUAL INTEGRATION
2336	22121415.D	SEQ-CALB		1	NO MANUAL INTEGRATION
2354	22121416.D	SEQ-CALC		1	NO MANUAL INTEGRATION
0012	22121417.D	SEQ-CALD		1	NO MANUAL INTEGRATION
0030	22121418.D	SEQ-CALE		1	NO MANUAL INTEGRATION
0048	22121419.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
0106	22121420.D	SEQ-SCV2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0124	22121421.D	SEQ-CAL1A		1	NO MANUAL INTEGRATION
0142	22121422.D	SEQ-CAL2A		1	NO MANUAL INTEGRATION
0159	22121423.D	SEQ-CAL3A		1	NO MANUAL INTEGRATION
0217	22121424.D	SEQ-CAL4A		1	NO MANUAL INTEGRATION
0235	22121425.D	SEQ-CAL5A		1	NO MANUAL INTEGRATION
0253	22121426.D	SEQ-CAL6A		1	NO MANUAL INTEGRATION
0311	22121427.D	SEQ-CAL7A		1	NO MANUAL INTEGRATION
0329	22121428.D	SEQ-CAL8A		1	NO MANUAL INTEGRATION
0346	22121429.D	SEQ-CAL9A		1	NO MANUAL INTEGRATION
0404	22121430.D	SEQ-CALAA		1	NO MANUAL INTEGRATION
0422	22121431.D	SEQ-CALAB		1	NO MANUAL INTEGRATION
0440	22121432.D	SEQ-CALAC		1	NO MANUAL INTEGRATION
0458	22121433.D	SEQ-CALAD		1	NO MANUAL INTEGRATION
0516	22121434.D	SEQ-CALAE		1	NO MANUAL INTEGRATION
0533	22121435.D	SEQ-PEM2		1	NO MANUAL INTEGRATION
0551	22121436.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
0609	22121437.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
0627	22121438.D	SEQ-ICV3		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0645	22121439.D	SEQ-ICV4		1	NO MANUAL INTEGRATION
0703	22121440.D	BKK0688-BLK1		1	NO MANUAL INTEGRATION
0721	22121441.D	BKK0688-BS1		1	NO MANUAL INTEGRATION
0739	22121442.D	BKK0688-BS2		1	NO MANUAL INTEGRATION
0757	22121443.D	BKK0688-BS3		1	NO MANUAL INTEGRATION
0815	22121444.D	BKK0688-BSD1		1	NO MANUAL INTEGRATION
0832	22121445.D	BKK0142-BLK1		1	NO MANUAL INTEGRATION
0850	22121446.D	BKK0142-BS1		1	NO MANUAL INTEGRATION
0908	22121447.D	BKK0142-BS2		1	NO MANUAL INTEGRATION
0926	22121448.D	BKK0142-BSD1		1	NO MANUAL INTEGRATION
0944	22121449.D	BKK0142-MS1		1	NO MANUAL INTEGRATION
1002	22121450.D	BKK0142-MSD1		1	NO MANUAL INTEGRATION
1020	22121451.D	22J0513-01		1	NO MANUAL INTEGRATION
1038	22121452.D	22J0513-04		1	NO MANUAL INTEGRATION
1055	22121453.D	22J0535-01		1	trans-Chlordane [C],
1113	22121454.D	22K0429-01		1	NO MANUAL INTEGRATION
1131	22121455.D	22K0429-02		1	Aldrin [C], Heptachlor epoxide b [C], trans-Chlordane [C],
1149	22121456.D	22K0429-03		1	Aldrin [C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1207	22121457.D	SEQ-PEM3		1	NO MANUAL INTEGRATION
1225	22121458.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
1243	22121459.D	SEQ-CCV2		1	NO MANUAL INTEGRATION
1301	22121460.D	SEQ-CCV3		1	NO MANUAL INTEGRATION
1319	22121461.D	SEQ-CCV4		1	NO MANUAL INTEGRATION
1336	22121462.D	BKK0380-BLK1		1	NO MANUAL INTEGRATION
1354	22121463.D	BKK0380-BS1		1	NO MANUAL INTEGRATION
1412	22121464.D	BKK0380-BSD1		1	NO MANUAL INTEGRATION
1430	22121465.D	22K0157-01		1	NO MANUAL INTEGRATION
1448	22121466.D	22K0230-01		1	NO MANUAL INTEGRATION
1506	22121467.D	22K0231-01		1	NO MANUAL INTEGRATION
1524	22121468.D	BKK0382-BLK1		1	NO MANUAL INTEGRATION
1542	22121469.D	BKK0382-BS1		1	NO MANUAL INTEGRATION
1600	22121470.D	BKK0382-BS2		1	NO MANUAL INTEGRATION
1618	22121471.D	BKK0382-BSD1		1	NO MANUAL INTEGRATION
1635	22121472.D	22K0075-01		1	NO MANUAL INTEGRATION
1653	22121473.D	SEQ-PEM4		1	NO MANUAL INTEGRATION
1711	22121474.D	SEQ-CCV5		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1729	22121475.D	SEQ-CCV6		1	NO MANUAL INTEGRATION
1747	22121476.D	SEQ-CCV7		1	NO MANUAL INTEGRATION
1805	22121477.D	SEQ-CCV8		1	NO MANUAL INTEGRATION
1823	22121478.D	BKK0537-BLK1		1	NO MANUAL INTEGRATION
1840	22121479.D	BKK0537-BS1		1	NO MANUAL INTEGRATION
1858	22121480.D	BKK0537-BS2		1	NO MANUAL INTEGRATION
1916	22121481.D	22K0194-01		1	NO MANUAL INTEGRATION
1934	22121482.D	22K0194-01RE1	10	1	NO MANUAL INTEGRATION
1952	22121483.D	SEQ-PEM5		1	NO MANUAL INTEGRATION
2010	22121484.D	SEQ-CCV9		1	NO MANUAL INTEGRATION
2027	22121485.D	SEQ-CCVA		1	NO MANUAL INTEGRATION
2045	22121486.D	SEQ-CCVB		1	NO MANUAL INTEGRATION
2103	22121487.D	SEQ-CCVC		1	NO MANUAL INTEGRATION

Security Status Report

Date: 17-Dec-2022 10:57

22121401.D	Data Locked	jrains, 17-Dec-2022 10:57
22121402.D	Data Locked	jrains, 17-Dec-2022 10:57
22121403.D	Data Locked	jrains, 17-Dec-2022 10:57
22121404.D	Data Locked	jrains, 17-Dec-2022 10:57
22121405.D	Data Locked	jrains, 17-Dec-2022 10:57
22121406.D	Data Locked	jrains, 17-Dec-2022 10:57
22121407.D	Data Locked	jrains, 17-Dec-2022 10:57
22121408.D	Data Locked	jrains, 17-Dec-2022 10:57
22121409.D	Data Locked	jrains, 17-Dec-2022 10:57
22121410.D	Data Locked	jrains, 17-Dec-2022 10:57
22121411.D	Data Locked	jrains, 17-Dec-2022 10:57
22121412.D	Data Locked	jrains, 17-Dec-2022 10:57
22121413.D	Data Locked	jrains, 17-Dec-2022 10:57
22121414.D	Data Locked	jrains, 17-Dec-2022 10:57
22121415.D	Data Locked	jrains, 17-Dec-2022 10:57
22121416.D	Data Locked	jrains, 17-Dec-2022 10:57
22121417.D	Data Locked	jrains, 17-Dec-2022 10:57
22121418.D	Data Locked	jrains, 17-Dec-2022 10:57
22121419.D	Data Locked	jrains, 17-Dec-2022 10:57
22121420.D	Data Locked	jrains, 17-Dec-2022 10:57
22121421.D	Data Locked	jrains, 17-Dec-2022 10:57
22121422.D	Data Locked	jrains, 17-Dec-2022 10:57
22121423.D	Data Locked	jrains, 17-Dec-2022 10:57
22121424.D	Data Locked	jrains, 17-Dec-2022 10:57
22121425.D	Data Locked	jrains, 17-Dec-2022 10:57
22121426.D	Data Locked	jrains, 17-Dec-2022 10:57
22121427.D	Data Locked	jrains, 17-Dec-2022 10:57
22121428.D	Data Locked	jrains, 17-Dec-2022 10:57
22121429.D	Data Locked	jrains, 17-Dec-2022 10:57
22121430.D	Data Locked	jrains, 17-Dec-2022 10:57
22121431.D	Data Locked	jrains, 17-Dec-2022 10:57
22121432.D	Data Locked	jrains, 17-Dec-2022 10:57
22121433.D	Data Locked	jrains, 17-Dec-2022 10:57
22121434.D	Data Locked	jrains, 17-Dec-2022 10:57

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0279
Instrument: ECD6
Calibration: FL00041

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLA0279-ICV1	23012012.D	23012012.D	NA	01/20/23 20:15
Blank	BLA0068-BLK1	23012013.D	23012013.D	Solid	01/20/23 20:33
LCS	BLA0068-BS1	23012014.D	23012014.D	Solid	01/20/23 20:51
LCS Dup	BLA0068-BSD1	23012015.D	23012015.D	Solid	01/20/23 21:09
LDW23-SC1123B	22L0459-01	23012016.D	23012016.D	Solid	01/20/23 21:26
LDW23-SC1053C	22L0459-02	23012017.D	23012017.D	Solid	01/20/23 21:44
LDW23-SC1053C	BLA0068-MS1	23012018.D	23012018.D	Solid	01/20/23 22:02
LDW23-SC1053C	BLA0068-MSD1	23012019.D	23012019.D	Solid	01/20/23 22:20
LDW23-SC1039C	22L0459-03	23012020.D	23012020.D	Solid	01/20/23 22:38
LDW23-SC1007B	22L0459-04	23012021.D	23012021.D	Solid	01/20/23 22:56
LDW23-SC1002C	22L0459-05	23012022.D	23012022.D	Solid	01/20/23 23:13
LDW23-SC1070B	22L0459-06	23012023.D	23012023.D	Solid	01/20/23 23:31
LDW23-SC1091B	22L0459-07	23012024.D	23012024.D	Solid	01/20/23 23:49
Calibration Check	SLA0279-CCV1	23012026.D	23012026.D	NA	01/21/23 00:25
Calibration Check	SLA0279-CCV2	23012042.D	23012042.D	NA	01/21/23 05:10
Calibration Check	SLA0279-CCV3	23012054.D	23012054.D	NA	01/21/23 08:44

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0279

Instrument: ECD6
Calibration ID: FL00041

Printed: 1/25/2023 10:37:15AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0279-PEM1	QC		1		K007286	L000844		
SLA0279-ICV1	QC		2		L000845	L000844		
BLA0068-BLK1	QC		3			L000844		
BLA0068-BS1	QC		4			L000844		
BLA0068-BSD1	QC		5			L000844		
22L0459-01	8081B Pest (PSDDA)	A 02	6			L000844	Anchor QEA, LLC	
22L0459-02	8081B Pest (PSDDA)	A 02	7			L000844	Anchor QEA, LLC	
BLA0068-MS1	QC		8			L000844		
BLA0068-MSD1	QC		9			L000844		
22L0459-03	8081B Pest (PSDDA)	A 02	10			L000844	Anchor QEA, LLC	
22L0459-04	8081B Pest (PSDDA)	A 02	11			L000844	Anchor QEA, LLC	
22L0459-05	8081B Pest (PSDDA)	A 02	12			L000844	Anchor QEA, LLC	
22L0459-06	8081B Pest (PSDDA)	A 02	13			L000844	Anchor QEA, LLC	
22L0459-07	8081B Pest (PSDDA)	A 02	14			L000844	Anchor QEA, LLC	
SLA0279-PEM2	QC		15		K007286	L000844		
SLA0279-CCV1	QC		16		L000845	L000844		
BLA0164-BLK1	QC		17			L000844		
BLA0164-BS1	QC		18			L000844		
BLA0164-BSD1	QC		19			L000844		
BLA0164-MS1	QC		20			L000844		
BLA0164-MSD1	QC		21			L000844		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0279

Instrument: ECD6
Calibration ID: FL00041

Printed: 1/25/2023 10:37:15AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
23A0031-21	8081B Pest (PSDDA)	A 02	22			L000844	Anchor QEA, LLC	
23A0032-05	8081B Pest (PSDDA)	A 02	23			L000844	Anchor QEA, LLC	
23A0032-08	8081B Pest (PSDDA)	A 02	24			L000844	Anchor QEA, LLC	
23A0032-11	8081B Pest (PSDDA)	A 02	25			L000844	Anchor QEA, LLC	
23A0087-01	8081B Pest (PSDDA)	A 02	26			L000844	Anchor QEA, LLC	
23A0087-02	8081B Pest (PSDDA)	A 02	27			L000844	Anchor QEA, LLC	
23A0087-03	8081B Pest (PSDDA)	A 02	28			L000844	Anchor QEA, LLC	
23A0087-04	8081B Pest (PSDDA)	A 02	29			L000844	Anchor QEA, LLC	
23A0087-05	8081B Pest (PSDDA)	A 02	30			L000844	Anchor QEA, LLC	
SLA0279-PEM3	QC		31		K007286	L000844		
SLA0279-CCV2	QC		32		L000845	L000844		
23A0087-06	8081B Pest (PSDDA)	A 02	33			L000844	Anchor QEA, LLC	
23A0087-07	8081B Pest (PSDDA)	A 02	34			L000844	Anchor QEA, LLC	
23A0087-08	8081B Pest (PSDDA)	A 02	35			L000844	Anchor QEA, LLC	
23A0087-09	8081B Pest (PSDDA)	A 02	36			L000844	Anchor QEA, LLC	
23A0087-10	8081B Pest (PSDDA)	A 02	37			L000844	Anchor QEA, LLC	
23A0087-11	8081B Pest (PSDDA)	A 02	38			L000844	Anchor QEA, LLC	
23A0087-12	8081B Pest (PSDDA)	A 02	39			L000844	Anchor QEA, LLC	
23A0087-13	8081B Pest (PSDDA)	A 02	40			L000844	Anchor QEA, LLC	
23A0087-14	8081B Pest (PSDDA)	A 02	41			L000844	Anchor QEA, LLC	
23A0087-15	8081B Pest (PSDDA)	A 02	42			L000844	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0279

Instrument: ECD6
Calibration ID: FL00041

Printed: 1/25/2023 10:37:15AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0279-PEM4	QC		43		K007286	L000844		
SLA0279-CCV3	QC		44		L000845	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230120.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	20-JAN-2023 11:44	23012001.D	20	22K0243-05	20
2	20-JAN-2023 12:02	23012002.D	20	22K0243-05	20
3	20-JAN-2023 17:35	23012003.D	1	RINSE	
4	20-JAN-2023 17:52	23012004.D	1	CLPIB	
5	20-JAN-2023 18:10	23012005.D	1	CLPPEM1	
6	20-JAN-2023 18:28	23012006.D	1	CLPPEST1	
7	20-JAN-2023 18:46	23012007.D	1	CLA0166-GPC1	
8	20-JAN-2023 19:04	23012008.D	1	CLA0166-GPC2	
9	20-JAN-2023 19:22	23012009.D	1	CLPPEM2	
10	20-JAN-2023 19:39	23012010.D	1	CLPPEST2	
11	20-JAN-2023 19:57	23012011.D	1	SEQ-DS1	
12	20-JAN-2023 20:15	23012012.D	1	SEQ-INDAICV1	
13	20-JAN-2023 20:33	23012013.D	1	BLA0068-BLK1	
14	20-JAN-2023 20:51	23012014.D	1	BLA0068-BS1	
15	20-JAN-2023 21:09	23012015.D	1	BLA0068-BSD1	
16	20-JAN-2023 21:26	23012016.D	1	22L0459-01	
17	20-JAN-2023 21:44	23012017.D	1	22L0459-02	
18	20-JAN-2023 22:02	23012018.D	1	BLA0068-MS1	
19	20-JAN-2023 22:20	23012019.D	1	BLA0068-MSD1	
20	20-JAN-2023 22:38	23012020.D	1	22L0459-03	
21	20-JAN-2023 22:56	23012021.D	1	22L0459-04	
22	20-JAN-2023 23:13	23012022.D	1	22L0459-05	
23	20-JAN-2023 23:31	23012023.D	1	22L0459-06	
24	20-JAN-2023 23:49	23012024.D	1	22L0459-07	
25	21-JAN-2023 00:07	23012025.D	1	SEQ-DS2	
26	21-JAN-2023 00:25	23012026.D	1	SEQ-INDACCV1	
27	21-JAN-2023 00:42	23012027.D	1	BLA0164-BLK1	
28	21-JAN-2023 01:00	23012028.D	1	BLA0164-BS1	
29	21-JAN-2023 01:18	23012029.D	1	BLA0164-BSD1	
30	21-JAN-2023 01:36	23012030.D	1	BLA0164-MS1	
31	21-JAN-2023 01:54	23012031.D	1	BLA0164-MSD1	
32	21-JAN-2023 02:12	23012032.D	1	23A0031-21	
33	21-JAN-2023 02:29	23012033.D	1	23A0032-05	
34	21-JAN-2023 02:47	23012034.D	1	23A0032-08	
35	21-JAN-2023 03:05	23012035.D	1	23A0032-11	
36	21-JAN-2023 03:23	23012036.D	1	23A0087-01	
37	21-JAN-2023 03:41	23012037.D	1	23A0087-02	
38	21-JAN-2023 03:59	23012038.D	1	23A0087-03	
39	21-JAN-2023 04:16	23012039.D	1	23A0087-04	
40	21-JAN-2023 04:34	23012040.D	1	23A0087-05	
41	21-JAN-2023 04:52	23012041.D	1	SEQ-DS3	
42	21-JAN-2023 05:10	23012042.D	1	SEQ-INDACCV2	
43	21-JAN-2023 05:28	23012043.D	1	23A0087-06	
44	21-JAN-2023 05:46	23012044.D	1	23A0087-07	
45	21-JAN-2023 06:04	23012045.D	1	23A0087-08	
46	21-JAN-2023 06:21	23012046.D	1	23A0087-09	
47	21-JAN-2023 06:39	23012047.D	1	23A0087-10	
48	21-JAN-2023 06:57	23012048.D	1	23A0087-11	
49	21-JAN-2023 07:15	23012049.D	1	23A0087-12	
50	21-JAN-2023 07:33	23012050.D	1	23A0087-13	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230120.b p

	Inject Date/Time	Filename	DF	LabID	ClientID
51	21-JAN-2023 07:51	23012051.D	1	23A0087-14	
52	21-JAN-2023 08:09	23012052.D	1	23A0087-15	
53	21-JAN-2023 08:27	23012053.D	1	SEQ-DS4	
54	21-JAN-2023 08:44	23012054.D	1	SEQ-INDACCV3	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230120.b

ARI Job No.: 22K0 Method: PEST.m Instrument: ecd6.i Date: 20-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1144	23012001.D	22K0243-05	20	20	NO MANUAL INTEGRATION
1202	23012002.D	22K0243-05	20	20	NO MANUAL INTEGRATION
1735	23012003.D	RINSE		1	NO MANUAL INTEGRATION
1752	23012004.D	CLPIB		1	NO MANUAL INTEGRATION
1810	23012005.D	CLPPEM1		1	NO MANUAL INTEGRATION
1828	23012006.D	CLPPEST1		1	NO MANUAL INTEGRATION
1846	23012007.D	CLA0166-GPC1		1	NO MANUAL INTEGRATION
1904	23012008.D	CLA0166-GPC2		1	NO MANUAL INTEGRATION
1922	23012009.D	CLPPEM2		1	NO MANUAL INTEGRATION
1939	23012010.D	CLPPEST2		1	NO MANUAL INTEGRATION
1957	23012011.D	SEQ-DS1		1	NO MANUAL INTEGRATION
2015	23012012.D	SEQ-INDAICV1		1	NO MANUAL INTEGRATION
2033	23012013.D	BLA0068-BLK1		1	NO MANUAL INTEGRATION
2051	23012014.D	BLA0068-BS1		1	NO MANUAL INTEGRATION
2109	23012015.D	BLA0068-BSD1		1	NO MANUAL INTEGRATION
2126	23012016.D	22L0459-01		1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Tetrachloro-m-xylene,
2144	23012017.D	22L0459-02		1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Tetrachloro-m-xylene,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230120.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2202	23012018.D	BLA0068-MS1		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Hexachlorobenzene, Tetrachloro-m-xylene,
2220	23012019.D	BLA0068-MSD1		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Hexachlorobutadiene, Hexachlorobenzene, Tetrachloro-m-xylene,
2238	23012020.D	22L0459-03		1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Tetrachloro-m-xylene,
2256	23012021.D	22L0459-04		1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Tetrachloro-m-xylene,
2313	23012022.D	22L0459-05		1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, Heptachlor, Tetrachloro-m-xylene,
2331	23012023.D	22L0459-06		1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, gamma-BHC (Lindane), Tetrachloro-m-xylene,
2349	23012024.D	22L0459-07		1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, Endrin aldehyde, cis-Chlordane, Hexachlorobutadiene, Hexabromobiphenyl, Tetrachloro-m-xylene, Decachlorob
0007	23012025.D	SEQ-DS2		1	NO MANUAL INTEGRATION
0025	23012026.D	SEQ-INDACCV1		1	NO MANUAL INTEGRATION
0042	23012027.D	BLA0164-BLK1		1	NO MANUAL INTEGRATION
0100	23012028.D	BLA0164-BS1		1	NO MANUAL INTEGRATION
0118	23012029.D	BLA0164-BSD1		1	NO MANUAL INTEGRATION
0136	23012030.D	BLA0164-MS1		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Endosulfan I, Dieldrin, 4,4'-DDE, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, Endrin aldehyde, trans-Chlordane, cis-Chlordane, Hexachlorobenzene, Hexabro
0154	23012031.D	BLA0164-MSD1		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Endosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, Endrin aldehyde, trans-Chlordane, cis-Chlordane, Hexachlorobutadiene,
0212	23012032.D	23A0031-21		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, Endrin aldehyde, cis-Chlordane, Hexachlorobutadiene, Hexachlorobenzene,
0229	23012033.D	23A0032-05		1	NO MANUAL INTEGRATION

0247	23012034.D 23A0032-08	1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, Endrin aldehyde, cis-Chlordane, Hexachlorobutadiene, Hexachlorobenzene, Hexabromobiphenyl, Tetrachloro-m-
0305	23012035.D 23A0032-11	1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide b, Endosulfan I, Dieldrin, 4,4'-DDE, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, trans-Chlordane, cis-Chlordane, Hexachlorobenzene, Hexabromobiphenyl, Tetrachloro-m-xylene, Decachlorobip

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230120.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0323	23012036.D	23A0087-01		1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, Heptachlor, Aldrin, Heptachlor epoxide b, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, 4,4'-DDT, Endrin aldehyde, trans-Chlordane, cis-Chlordane, Hexachlorobutadiene, Hexachlorobenzene, Hexabromobiphenyl, Tetrachloro-m-xylene,
0341	23012037.D	23A0087-02		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, Heptachlor, Hexachlorobenzene, Tetrachloro-m-xylene,
0359	23012038.D	23A0087-03		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Hexachlorobenzene, Tetrachloro-m-xylene,
0416	23012039.D	23A0087-04		1	NO MANUAL INTEGRATION
0434	23012040.D	23A0087-05		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Hexachlorobenzene, Tetrachloro-m-xylene,
0452	23012041.D	SEQ-DS3		1	NO MANUAL INTEGRATION
0510	23012042.D	SEQ-INDACCV2		1	NO MANUAL INTEGRATION
0528	23012043.D	23A0087-06		1	1Bromo-2nitrobenzene, cis-Chlordane, Hexachlorobenzene, Tetrachloro-m-xylene,
0546	23012044.D	23A0087-07		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Hexachlorobenzene, Tetrachloro-m-xylene,
0604	23012045.D	23A0087-08		1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide b, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Endrin aldehyde, trans-Chlordane, cis-Chlordane, Hexachlorobenzene, Hexabromobiphenyl, Tetrachloro-m-xylene, Decachlorobiphenyl,
0621	23012046.D	23A0087-09		1	Hexachlorobenzene,
0639	23012047.D	23A0087-10		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Hexachlorobenzene, Tetrachloro-m-xylene,
0657	23012048.D	23A0087-11		1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Hexachlorobutadiene, Hexachlorobenzene, Tetrachloro-m-xylene,
0715	23012049.D	23A0087-12		1	1Bromo-2nitrobenzene, alpha-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Hexachlorobenzene, Tetrachloro-m-xylene,
0733	23012050.D	23A0087-13		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Endrin aldehyde, cis-Chlordane, Hexachlorobutadiene, Hexachlorobenzene, Hexabromobiphenyl, Tetrachlo

0751	23012051.D 23A0087-14	1	NO MANUAL INTEGRATION
0809	23012052.D 23A0087-15	1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Hexachlorobenzene, Tetrachloro-m-xylene,
0827	23012053.D SEQ-DS4	1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230120.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0844	23012054.D	SEQ-INDACCV3		1	NO MANUAL INTEGRATION
1144	23012001.D	22K0243-05 20	20		NO MANUAL INTEGRATION
1202	23012002.D	22K0243-05 20	20		NO MANUAL INTEGRATION
1735	23012003.D	RINSE		1	NO MANUAL INTEGRATION
1752	23012004.D	CLPIB		1	NO MANUAL INTEGRATION
1810	23012005.D	CLPPEM1		1	NO MANUAL INTEGRATION
1828	23012006.D	CLPPEST1		1	NO MANUAL INTEGRATION
1846	23012007.D	CLA0166-GPC1		1	NO MANUAL INTEGRATION
1904	23012008.D	CLA0166-GPC2		1	NO MANUAL INTEGRATION
1922	23012009.D	CLPPEM2		1	NO MANUAL INTEGRATION
1939	23012010.D	CLPPEST2		1	NO MANUAL INTEGRATION
1957	23012011.D	SEQ-DS1		1	NO MANUAL INTEGRATION
2015	23012012.D	SEQ-INDAICV1		1	NO MANUAL INTEGRATION
2033	23012013.D	BLA0068-BLK1		1	NO MANUAL INTEGRATION
2051	23012014.D	BLA0068-BS1		1	NO MANUAL INTEGRATION
2109	23012015.D	BLA0068-BSD1		1	NO MANUAL INTEGRATION
2126	23012016.D	22L0459-01		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Tetrachloro-m-xylene [C],
2144	23012017.D	22L0459-02		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Aldrin [C], Tetrachloro-m-xylene [C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230120.b\B20230120.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2202	23012018.D	BLA0068-MS1		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
2220	23012019.D	BLA0068-MSD1		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
2238	23012020.D	22L0459-03		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Aldrin [C], Tetrachloro-m-xylene [C],
2256	23012021.D	22L0459-04		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Tetrachloro-m-xylene [C],
2313	23012022.D	22L0459-05		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Tetrachloro-m-xylene [C],
2331	23012023.D	22L0459-06		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Tetrachloro-m-xylene [C],
2349	23012024.D	22L0459-07		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Tetrachloro-m-xylene [C],
0007	23012025.D	SEQ-DS2		1	NO MANUAL INTEGRATION
0025	23012026.D	SEQ-INDACCV1		1	NO MANUAL INTEGRATION
0042	23012027.D	BLA0164-BLK1		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Tetrachloro-m-xylene [C],
0100	23012028.D	BLA0164-BS1		1	NO MANUAL INTEGRATION
0118	23012029.D	BLA0164-BSD1		1	NO MANUAL INTEGRATION
0136	23012030.D	BLA0164-MS1		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], delta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Aldrin [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0154	23012031.D	BLA0164-MSD1		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0212	23012032.D	23A0031-21		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0229	23012033.D	23A0032-05		1	NO MANUAL INTEGRATION
0247	23012034.D	23A0032-08		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0305	23012035.D	23A0032-11		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230120.b\B20230120.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0323	23012036.D	23A0087-01		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0341	23012037.D	23A0087-02		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0359	23012038.D	23A0087-03		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0416	23012039.D	23A0087-04		1	NO MANUAL INTEGRATION
0434	23012040.D	23A0087-05		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0452	23012041.D	SEQ-DS3		1	NO MANUAL INTEGRATION
0510	23012042.D	SEQ-INDACCV2		1	NO MANUAL INTEGRATION
0528	23012043.D	23A0087-06		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0546	23012044.D	23A0087-07		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], delta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0604	23012045.D	23A0087-08		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0621	23012046.D	23A0087-09		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0639	23012047.D	23A0087-10		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0657	23012048.D	23A0087-11		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], Heptachlor [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0715	23012049.D	23A0087-12		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0733	23012050.D	23A0087-13		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0751	23012051.D	23A0087-14		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Tetrachloro-m-xylene [C],
0809	23012052.D	23A0087-15		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Heptachlor [C], Aldrin [C], Tetrachloro-m-xylene [C],
0827	23012053.D	SEQ-DS4		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230120.b\B20230120.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0844	23012054.D	SEQ-INDACCV3		1	NO MANUAL INTEGRATION

Security Status Report

Date: 25-Jan-2023 10:35

23012001.D	Data Locked	jrains, 25-Jan-2023 10:35
23012002.D	Data Locked	jrains, 25-Jan-2023 10:35
23012003.D	Data Locked	jrains, 25-Jan-2023 10:35
23012004.D	Data Locked	jrains, 25-Jan-2023 10:35
23012005.D	Data Locked	jrains, 25-Jan-2023 10:35
23012006.D	Data Locked	jrains, 25-Jan-2023 10:35
23012007.D	Data Locked	jrains, 25-Jan-2023 10:35
23012008.D	Data Locked	jrains, 25-Jan-2023 10:35
23012009.D	Data Locked	jrains, 25-Jan-2023 10:35
23012010.D	Data Locked	jrains, 25-Jan-2023 10:35
23012011.D	Data Locked	jrains, 25-Jan-2023 10:35
23012012.D	Data Locked	jrains, 25-Jan-2023 10:35
23012013.D	Data Locked	jrains, 25-Jan-2023 10:35
23012014.D	Data Locked	jrains, 25-Jan-2023 10:35
23012015.D	Data Locked	jrains, 25-Jan-2023 10:35
23012016.D	Data Locked	jrains, 25-Jan-2023 10:35
23012017.D	Data Locked	jrains, 25-Jan-2023 10:35
23012018.D	Data Locked	jrains, 25-Jan-2023 10:35
23012019.D	Data Locked	jrains, 25-Jan-2023 10:35
23012020.D	Data Locked	jrains, 25-Jan-2023 10:35
23012021.D	Data Locked	jrains, 25-Jan-2023 10:35
23012022.D	Data Locked	jrains, 25-Jan-2023 10:35
23012023.D	Data Locked	jrains, 25-Jan-2023 10:35
23012024.D	Data Locked	jrains, 25-Jan-2023 10:35
23012025.D	Data Locked	jrains, 25-Jan-2023 10:35
23012026.D	Data Locked	jrains, 25-Jan-2023 10:35
23012027.D	Data Locked	jrains, 25-Jan-2023 10:35
23012028.D	Data Locked	jrains, 25-Jan-2023 10:35
23012029.D	Data Locked	jrains, 25-Jan-2023 10:35
23012030.D	Data Locked	jrains, 25-Jan-2023 10:35
23012031.D	Data Locked	jrains, 25-Jan-2023 10:35
23012032.D	Data Locked	jrains, 25-Jan-2023 10:35
23012033.D	Data Locked	jrains, 25-Jan-2023 10:35
23012034.D	Data Locked	jrains, 25-Jan-2023 10:35
23012035.D	Data Locked	jrains, 25-Jan-2023 10:35
23012036.D	Data Locked	jrains, 25-Jan-2023 10:35
23012037.D	Data Locked	jrains, 25-Jan-2023 10:35
23012038.D	Data Locked	jrains, 25-Jan-2023 10:35
23012039.D	Data Locked	jrains, 25-Jan-2023 10:35
23012040.D	Data Locked	jrains, 25-Jan-2023 10:35
23012041.D	Data Locked	jrains, 25-Jan-2023 10:35
23012042.D	Data Locked	jrains, 25-Jan-2023 10:35
23012043.D	Data Locked	jrains, 25-Jan-2023 10:35
23012044.D	Data Locked	jrains, 25-Jan-2023 10:35

23012045.D	Data Locked	jrains, 25-Jan-2023 10:35
23012046.D	Data Locked	jrains, 25-Jan-2023 10:35
23012047.D	Data Locked	jrains, 25-Jan-2023 10:35
23012048.D	Data Locked	jrains, 25-Jan-2023 10:35
23012049.D	Data Locked	jrains, 25-Jan-2023 10:35
23012050.D	Data Locked	jrains, 25-Jan-2023 10:35
23012051.D	Data Locked	jrains, 25-Jan-2023 10:35
23012052.D	Data Locked	jrains, 25-Jan-2023 10:35
23012053.D	Data Locked	jrains, 25-Jan-2023 10:35
23012054.D	Data Locked	jrains, 25-Jan-2023 10:35

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SKL0233	Instrument:	ECD6
Calibration:	FL00041	Calibration Date:	12/15/2022

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0233-PEM1 (Water)				Lab File ID: 22121404.D			Analyzed: 12/14/22 20:20	
Decachlorobiphenyl	160.00	83.0	0 - 200	9.355	9.354666	0.0003	+/-0.1	
Decachlorobiphenyl [2C]	160.00	83.5	0 - 200	10.466	10.4655	0.0005	+/-0.1	
Tetrachlorometaxylene	160.00	78.1	0 - 200	3.828	3.827833	0.0002	+/-0.1	
Tetrachlorometaxylene [2C]	160.00	83.5	0 - 200	4.22	4.219666	0.0003	+/-0.1	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0279
Instrument: ECD6
Calibration: FL00041
Calibration Date: 12/14/2022

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0279-ICV1 (Solid)				Lab File ID: 23012012.D			Analyzed: 01/20/23 20:15	
Decachlorobiphenyl	40.000	97.0	80 - 120	9.325	9.354666	-0.0297	+/-0.1	
Decachlorobiphenyl [2C]	40.000	94.5	80 - 120	10.428	10.4655	-0.0375	+/-0.1	
Tetrachlorometaxylene	40.000	100	80 - 120	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	98.5	80 - 120	4.198	4.219666	-0.0217	+/-0.1	
BLA0068-BLK1 (Solid)				Lab File ID: 23012013.D			Analyzed: 01/20/23 20:33	
Decachlorobiphenyl	8.0000	91.3	30 - 160	9.324	9.354666	-0.0307	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	91.5	30 - 160	10.428	10.4655	-0.0375	+/-0.1	
Tetrachlorometaxylene	8.0000	68.5	30 - 160	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	67.0	30 - 160	4.198	4.219666	-0.0217	+/-0.1	
BLA0068-BS1 (Solid)				Lab File ID: 23012014.D			Analyzed: 01/20/23 20:51	
Decachlorobiphenyl	8.0000	81.6	30 - 160	9.325	9.354666	-0.0297	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	90.3	30 - 160	10.428	10.4655	-0.0375	+/-0.1	
Tetrachlorometaxylene	8.0000	72.8	30 - 160	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	70.4	30 - 160	4.198	4.219666	-0.0217	+/-0.1	
BLA0068-BSD1 (Solid)				Lab File ID: 23012015.D			Analyzed: 01/20/23 21:09	
Decachlorobiphenyl	8.0000	92.1	30 - 160	9.325	9.354666	-0.0297	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	96.5	30 - 160	10.429	10.4655	-0.0365	+/-0.1	
Tetrachlorometaxylene	8.0000	77.5	30 - 160	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	75.7	30 - 160	4.198	4.219666	-0.0217	+/-0.1	
22L0459-01 (Solid)				Lab File ID: 23012016.D			Analyzed: 01/20/23 21:26	
Decachlorobiphenyl	7.9816	99.1	30 - 160	9.332	9.354666	-0.0227	+/-0.1	
Decachlorobiphenyl [2C]	7.9816	103	30 - 160	10.433	10.4655	-0.0325	+/-0.1	
Tetrachlorometaxylene	7.9816	65.5	30 - 160	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	7.9816	69.4	30 - 160	4.199	4.219666	-0.0207	+/-0.1	
22L0459-02 (Solid)				Lab File ID: 23012017.D			Analyzed: 01/20/23 21:44	
Decachlorobiphenyl	7.9940	95.5	30 - 160	9.329	9.354666	-0.0257	+/-0.1	
Decachlorobiphenyl [2C]	7.9940	102	30 - 160	10.431	10.4655	-0.0345	+/-0.1	
Tetrachlorometaxylene	7.9940	66.2	30 - 160	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	7.9940	65.8	30 - 160	4.197	4.219666	-0.0227	+/-0.1	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0279	Instrument:	ECD6
Calibration:	FL00041	Calibration Date:	12/15/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLA0068-MS1 (Solid)			Lab File ID: 23012018.D			Analyzed: 01/20/23 22:02		
Decachlorobiphenyl	7.9940	95.6	30 - 160	9.329	9.354666	-0.0257	+/-0.1	
Decachlorobiphenyl [2C]	7.9940	113	30 - 160	10.431	10.4655	-0.0345	+/-0.1	
Tetrachlorometaxylene	7.9940	70.9	30 - 160	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	7.9940	64.3	30 - 160	4.198	4.219666	-0.0217	+/-0.1	
BLA0068-MSD1 (Solid)			Lab File ID: 23012019.D			Analyzed: 01/20/23 22:20		
Decachlorobiphenyl	7.9940	94.0	30 - 160	9.329	9.354666	-0.0257	+/-0.1	
Decachlorobiphenyl [2C]	7.9940	104	30 - 160	10.431	10.4655	-0.0345	+/-0.1	
Tetrachlorometaxylene	7.9940	68.4	30 - 160	3.806	3.827833	-0.0218	+/-0.1	
Tetrachlorometaxylene [2C]	7.9940	65.8	30 - 160	4.198	4.219666	-0.0217	+/-0.1	
22L0459-03 (Solid)			Lab File ID: 23012020.D			Analyzed: 01/20/23 22:38		
Decachlorobiphenyl	7.9961	97.7	30 - 160	9.333	9.354666	-0.0217	+/-0.1	
Decachlorobiphenyl [2C]	7.9961	102	30 - 160	10.434	10.4655	-0.0315	+/-0.1	
Tetrachlorometaxylene	7.9961	50.4	30 - 160	3.806	3.827833	-0.0218	+/-0.1	
Tetrachlorometaxylene [2C]	7.9961	63.2	30 - 160	4.198	4.219666	-0.0217	+/-0.1	
22L0459-04 (Solid)			Lab File ID: 23012021.D			Analyzed: 01/20/23 22:56		
Decachlorobiphenyl	7.9974	103	30 - 160	9.33	9.354666	-0.0247	+/-0.1	
Decachlorobiphenyl [2C]	7.9974	132	30 - 160	10.432	10.4655	-0.0335	+/-0.1	
Tetrachlorometaxylene	7.9974	65.3	30 - 160	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	7.9974	66.8	30 - 160	4.198	4.219666	-0.0217	+/-0.1	
22L0459-05 (Solid)			Lab File ID: 23012022.D			Analyzed: 01/20/23 23:13		
Decachlorobiphenyl	7.9923	105	30 - 160	9.331	9.354666	-0.0237	+/-0.1	
Decachlorobiphenyl [2C]	7.9923	136	30 - 160	10.433	10.4655	-0.0325	+/-0.1	
Tetrachlorometaxylene	7.9923	74.0	30 - 160	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	7.9923	69.5	30 - 160	4.198	4.219666	-0.0217	+/-0.1	
22L0459-06 (Solid)			Lab File ID: 23012023.D			Analyzed: 01/20/23 23:31		
Decachlorobiphenyl	7.9877	113	30 - 160	9.334	9.354666	-0.0207	+/-0.1	
Decachlorobiphenyl [2C]	7.9877	133	30 - 160	10.436	10.4655	-0.0295	+/-0.1	
Tetrachlorometaxylene	7.9877	71.0	30 - 160	3.807	3.827833	-0.0208	+/-0.1	
Tetrachlorometaxylene [2C]	7.9877	74.3	30 - 160	4.198	4.219666	-0.0217	+/-0.1	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0279
Instrument: ECD6
Calibration: FL00041
Calibration Date: 12/15/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0459-07 (Solid)				Lab File ID: 23012024.D			Analyzed: 01/20/23 23:49	
Decachlorobiphenyl	7.7935	101	30 - 160	9.328	9.354666	-0.0267	+/-0.1	
Decachlorobiphenyl [2C]	7.7935	120	30 - 160	10.431	10.4655	-0.0345	+/-0.1	
Tetrachlorometaxylene	7.7935	72.2	30 - 160	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	7.7935	70.4	30 - 160	4.198	4.219666	-0.0217	+/-0.1	
SLA0279-CCV1 (Solid)				Lab File ID: 23012026.D			Analyzed: 01/21/23 00:25	
Decachlorobiphenyl	40.000	96.1	80 - 120	9.325	9.354666	-0.0297	+/-0.1	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	10.429	10.4655	-0.0365	+/-0.1	
Tetrachlorometaxylene	40.000	101	80 - 120	3.806	3.827833	-0.0218	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	97.0	80 - 120	4.198	4.219666	-0.0217	+/-0.1	
SLA0279-CCV2 (Solid)				Lab File ID: 23012042.D			Analyzed: 01/21/23 05:10	
Decachlorobiphenyl	40.000	95.7	80 - 120	9.325	9.354666	-0.0297	+/-0.1	
Decachlorobiphenyl [2C]	40.000	96.0	80 - 120	10.428	10.4655	-0.0375	+/-0.1	
Tetrachlorometaxylene	40.000	99.5	80 - 120	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	98.9	80 - 120	4.198	4.219666	-0.0217	+/-0.1	
SLA0279-CCV3 (Solid)				Lab File ID: 23012054.D			Analyzed: 01/21/23 08:44	
Decachlorobiphenyl	40.000	95.9	80 - 120	9.325	9.354666	-0.0297	+/-0.1	
Decachlorobiphenyl [2C]	40.000	94.1	80 - 120	10.428	10.4655	-0.0375	+/-0.1	
Tetrachlorometaxylene	40.000	99.8	80 - 120	3.805	3.827833	-0.0228	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	98.4	80 - 120	4.198	4.219666	-0.0217	+/-0.1	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SKL0233	Instrument:	ECD6
		Calibration:	FL00041

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Performance Mix (SKL0233-PEM1)		(Water)		Lab File ID: 22121404.D				Analyzed: 12/14/22 20:20	
1-Bromo-2-Nitrobenzene	683485	3.15	672426	3.15	102	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	619012	9.503	609723	9.504	102	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1005375	3.35	1006482	3.35	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	772586	11.054	769764	11.053	100	50 - 200	0.001	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0279
Instrument: ECD6
Calibration: FL00041

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0279-ICV1)		(Solid)		Lab File ID: 23012012.D			Analyzed: 01/20/23 20:15		
1-Bromo-2-Nitrobenzene	805810	3.132	805810	3.132	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	772398	9.474	772398	9.474	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1238226	3.333	1238226	3.333	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	892419	11.011	892419	11.011	100	50 - 200	0.000	+/-0.50	
Blank (BLA0068-BLK1)		(Solid)		Lab File ID: 23012013.D			Analyzed: 01/20/23 20:33		
1-Bromo-2-Nitrobenzene	825929	3.131	805810	3.132	102	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	714944	9.473	772398	9.474	93	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1265909	3.333	1238226	3.333	102	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	824906	11.011	892419	11.011	92	50 - 200	0.000	+/-0.50	
LCS (BLA0068-BS1)		(Solid)		Lab File ID: 23012014.D			Analyzed: 01/20/23 20:51		
1-Bromo-2-Nitrobenzene	849781	3.131	805810	3.132	105	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	724128	9.474	772398	9.474	94	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1297291	3.332	1238226	3.333	105	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	842616	11.011	892419	11.011	94	50 - 200	0.000	+/-0.50	
LCS Dup (BLA0068-BSD1)		(Solid)		Lab File ID: 23012015.D			Analyzed: 01/20/23 21:09		
1-Bromo-2-Nitrobenzene	825460	3.131	805810	3.132	102	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	706422	9.474	772398	9.474	91	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1258298	3.333	1238226	3.333	102	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	823677	11.011	892419	11.011	92	50 - 200	0.000	+/-0.50	
LDW23-SC1123B (22L0459-01)		(Solid)		Lab File ID: 23012016.D			Analyzed: 01/20/23 21:26		
1-Bromo-2-Nitrobenzene	940019	3.131	805810	3.132	117	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	663867	9.483	772398	9.474	86	50 - 200	0.009	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1207010	3.333	1238226	3.333	97	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	771442	11.017	892419	11.011	86	50 - 200	0.006	+/-0.50	
LDW23-SC1053C (22L0459-02)		(Solid)		Lab File ID: 23012017.D			Analyzed: 01/20/23 21:44		
1-Bromo-2-Nitrobenzene	870694	3.132	805810	3.132	108	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	636998	9.479	772398	9.474	82	50 - 200	0.005	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1164939	3.332	1238226	3.333	94	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	765491	11.015	892419	11.011	86	50 - 200	0.004	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0279
Instrument: ECD6
Calibration: FL00041

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (BLA0068-MS1)		(Solid)		Lab File ID: 23012018.D				Analyzed: 01/20/23 22:02	
1-Bromo-2-Nitrobenzene	810652	3.131	805810	3.132	101	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	603603	9.479	772398	9.474	78	50 - 200	0.005	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1144835	3.332	1238226	3.333	92	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	692924	11.015	892419	11.011	78	50 - 200	0.004	+/-0.50	
Matrix Spike Dup (BLA0068-MSD1)		(Solid)		Lab File ID: 23012019.D				Analyzed: 01/20/23 22:20	
1-Bromo-2-Nitrobenzene	868940	3.131	805810	3.132	108	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	630808	9.479	772398	9.474	82	50 - 200	0.005	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1171512	3.332	1238226	3.333	95	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	723864	11.015	892419	11.011	81	50 - 200	0.004	+/-0.50	
LDW23-SC1039C (22L0459-03)		(Solid)		Lab File ID: 23012020.D				Analyzed: 01/20/23 22:38	
1-Bromo-2-Nitrobenzene	1050089	3.131	805810	3.132	130	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	672602	9.484	772398	9.474	87	50 - 200	0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1157649	3.332	1238226	3.333	93	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	718372	11.019	892419	11.011	80	50 - 200	0.008	+/-0.50	
LDW23-SC1007B (22L0459-04)		(Solid)		Lab File ID: 23012021.D				Analyzed: 01/20/23 22:56	
1-Bromo-2-Nitrobenzene	925099	3.131	805810	3.132	115	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	614745	9.481	772398	9.474	80	50 - 200	0.007	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1171907	3.333	1238226	3.333	95	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	684369	11.016	892419	11.011	77	50 - 200	0.005	+/-0.50	
LDW23-SC1002C (22L0459-05)		(Solid)		Lab File ID: 23012022.D				Analyzed: 01/20/23 23:13	
1-Bromo-2-Nitrobenzene	840915	3.131	805810	3.132	104	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	612120	9.482	772398	9.474	79	50 - 200	0.008	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1198010	3.333	1238226	3.333	97	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	665261	11.017	892419	11.011	75	50 - 200	0.006	+/-0.50	
LDW23-SC1070B (22L0459-06)		(Solid)		Lab File ID: 23012023.D				Analyzed: 01/20/23 23:31	
1-Bromo-2-Nitrobenzene	889537	3.131	805810	3.132	110	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	624848	9.487	772398	9.474	81	50 - 200	0.013	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1138542	3.333	1238226	3.333	92	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	684872	11.02	892419	11.011	77	50 - 200	0.009	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0279	Instrument:	ECD6
		Calibration:	FL00041

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SC1091B (22L0459-07)		(Solid)		Lab File ID: 23012024.D				Analyzed: 01/20/23 23:49	
1-Bromo-2-Nitrobenzene	817881	3.131	805810	3.132	101	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	593592	9.479	772398	9.474	77	50 - 200	0.005	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1098460	3.332	1238226	3.333	89	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	704563	11.013	892419	11.011	79	50 - 200	0.002	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8081B

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SC1123B 22L0459-01	12/16/22 08:19	12/16/22 15:47	01/05/23 15:38	20	365	01/20/23 21:26	15	40	
LDW23-SC1053C 22L0459-02	12/16/22 09:12	12/16/22 15:47	01/05/23 15:38	20	365	01/20/23 21:44	15	40	
LDW23-SC1039C 22L0459-03	12/16/22 09:50	12/16/22 15:47	01/05/23 15:38	20	365	01/20/23 22:38	15	40	
LDW23-SC1007B 22L0459-04	12/16/22 10:43	12/16/22 15:47	01/05/23 15:38	20	365	01/20/23 22:56	15	40	
LDW23-SC1002C 22L0459-05	12/16/22 11:20	12/16/22 15:47	01/05/23 15:38	20	365	01/20/23 23:13	15	40	
LDW23-SC1070B 22L0459-06	12/16/22 12:01	12/16/22 15:47	01/05/23 15:38	20	365	01/20/23 23:31	15	40	
LDW23-SC1091B 22L0459-07	12/16/22 12:38	12/16/22 15:47	01/05/23 15:38	20	365	01/20/23 23:49	15	40	
Matrix Spike BLA0068-MS1	12/16/22 09:12	12/16/22 15:47	01/05/23 15:38	20	365	01/20/23 22:02	15	40	
Matrix Spike Dup BLA0068-MSD1	12/16/22 09:12	12/16/22 15:47	01/05/23 15:38	20	365	01/20/23 22:20	15	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ECD6

Analyte	MDL	RL	Units
Hexachlorobenzene	0.15	0.50	ug/kg
Hexachlorobenzene [2C]	0.15	0.50	ug/kg

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CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

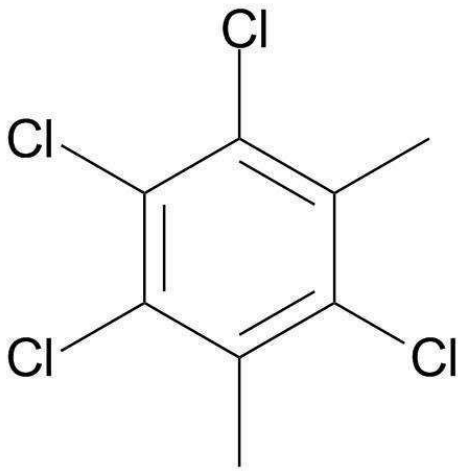
ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration[1]
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C8H6Cl4
Molecular weight: 243.94



C000147
tetrachlormetaxylene
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N
DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
LOT #: 990521LB-AC
SOLVENT: N/A

EXPIRATION: Jul 28, 2015

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1]	Certified Analyte Concentration[2]
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

2,

C000148
decachlorbiphenyl
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

* I1768A

Certified by: R. Cooper

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/264480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

* Recertified 2 4-6-09 JS

Analytical Standard Record

Standard ID: C000148 **Printed: 4/23/2015 11:54:44AM**

Description:	decachlorbiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	990521lb-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By Date

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CERTIFICATE OF ANALYSIS

Catalog No: P-066S
Description: Mirex
Lot: 219051741-01
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Jun 5, 2020
Expiration: Jun 5, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Mirex	2385-85-5	98.2	100.2	98.4

I007970
Mirex 2d source
Solvent / Lot: MeOH
Prep: 9/7/2020 by JR
Exp: 6/5/2024
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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CERTIFICATE OF ANALYSIS

Catalog No: P-026S
Description: o,p'-DDE
Lot: 218021093-01
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Feb 10, 2020
Expiration: Feb 10, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
o,p'-DDE	3424-82-6	99.9	100.4	100.3

I7971

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 822-275872-11

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

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CERTIFICATE OF ANALYSIS

Catalog No: P-184S
Description: trans-Nonachlor
Lot: 218011470
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Jan 30, 2018
Expiration: Jan 30, 2028
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
trans-Nonachlor	39765-80-5	99.0	100.2	99.2

I 7974

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 822-275872-11

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

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Certified By: Larry Decker, Organic QC Manager

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CERTIFICATE OF ANALYSIS

Catalog No: P-024S
Description: o,p'-DDD
Lot: 220051307
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 27, 2020
Expiration: Jun 27, 2022
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
o,p'-DDD	53-19-0	100.0	100.2	100.2

I010773
o,p-DDD
Solvent / Lot: methanol
Prep: 11/20/2020 by VS
Exp: 6/27/2022
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

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1. **Quality Standards:**

   ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2 **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

3 **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this .

4 **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5 **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6 **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7 **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: P-331S
Description: Oxychlordane Isomer
Lot: 218101131
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Oct 8, 2018
Expiration: Nov 8, 2020
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Oxychlordane Isomer	27304-13-8	97.7	102.4*	100.0

I010795
Oxychlordane isomer
Solvent / Lot: methanol
Prep: 11/20/2020 by VS
Exp: 6/20/2022
Location:

* Weight compensated to 100% purity.

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

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Certified By: Larry Decker, Organic QC Manager

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   ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2 **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

3 **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

4 **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5 **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6 **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

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CERTIFICATE OF ANALYSIS

Catalog No: P-297S
Description: cis-Nonachlor
Lot: 217121240
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Dec 13, 2017
Expiration: Dec 13, 2020
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
cis-Nonachlor	5103-73-1	98.6	100.4	99.0

I010796
cis-Nonochlor-Accustd-100ug/ml
Solvent / Lot: methanol
Prep: 11/20/2020 by VS
Exp: 11/27/2022
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] All weights are traceable through NIST, Test No. 822-275872-11

[2] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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1. **Quality Standards:**

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   ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: APP-9-112-D-20X
Description: Hexachlorobenzene in Dichloromethane
Lot: 219051389
Solvent: Dichloromethane
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: May 13, 2019
Expiration: May 13, 2029
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobenzene	118-74-1	99.0	2002	1982

J006504
Hexachlorobenzene
Solvent / Lot: Dichloromethane
Prep: 6/21/2021 by YZ
Exp: 5/13/2029
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

1. **Quality Standards:**

   ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2 **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

3 **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this .

4 **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5 **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6 **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7 **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: P-028S
Description: o,p'-DDT
Lot: 221071322
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Jul 21, 2021
Expiration: Aug 21, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
o,p'-DDT	789-02-6	99.9	100.1	100.0

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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Rev. 5/18

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: P-024S
Description: o,p'-DDD
Lot: 220051307-01
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Jul 6, 2021
Expiration: Aug 6, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
o,p'-DDD	53-19-0	100.0	100.2	100.2

K 0448

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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CERTIFICATE OF ANALYSIS

Catalog No: P-331S
Description: Oxychlordane Isomer
Lot: 221051706
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 28, 2021
Expiration: Jun 28, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Oxychlordane Isomer	27304-13-8	99.2	100.1	99.3

K000449
Oxychlordane isomer
Solvent / Lot: methanol
Prep: 1/13/2022 by YZ
Exp: 6/28/2023
Location:

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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Rev. 5/18

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: P-297S
Description: cis-Nonachlor
Lot: 221041461
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Apr 22, 2021
Expiration: Apr 22, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
cis-Nonachlor	5103-73-1	98.6	101.1	99.7

K 000450

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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CERTIFICATE OF ANALYSIS

Catalog No: P-184S
Description: trans-Nonachlor
Lot: 220091107
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Sep 11, 2020
Expiration: Sep 11, 2030
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB AR-1463 ANAB AT-1339 ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
trans-Nonachlor	39765-80-5	99.0	100.2	99.2

K-0045 1

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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CERTIFICATE OF ANALYSIS

Catalog No: P-066S
Description: Mirex
Lot: 219051741-01
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Jun 5, 2020
Expiration: Jun 5, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463 ANAB ACCREDITED AT-1339 ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Mirex	2385-85-5	98.2	100.2	98.4

K 000452

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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K 000 452

CERTIFICATE OF ANALYSIS

Catalog No: P-066S
Description: Mirex
Lot: 221121451
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Dec 27, 2021
Expiration: Dec 27, 2025
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Mirex	2385-85-5	98.2	100.0	98.2

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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CERTIFICATE OF ANALYSIS

Catalog No: M-8081-DS
Description: 4,4'-DDT & Endrin
Lot: 221031488-04
Solvent: Hexane
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Apr 8, 2022
Expiration: May 8, 2023
Sample Size: 1 mL
Components: 2
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
4,4'-DDT	50-29-3	100.0	200.9	200.9
Endrin	72-20-8	99.8	200.0	199.6

K7002

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

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Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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Bellefonte, PA 16823-8812
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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32292 **Lot No.:** A0185477

Description : Organochlorine Pesticide Mix AB # 2

Organochlorine Pesticide Mix AB # 2 8-80 µg/mL, Hexane/Toluene(1:1), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	alpha-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-84-6 (Lot 12307600)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
2	gamma-BHC (Lindane)	8.0 µg/mL	+/- 0.0654 µg/mL	Gravimetric
	CAS # 58-89-9 (Lot 13087200)		+/- 0.3672 µg/mL	Unstressed
	Purity 99%		+/- 0.5281 µg/mL	Stressed
3	beta-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-85-7 (Lot 0588007-4)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
4	delta-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-86-8 (Lot 13112400)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
5	Heptachlor	8.0 µg/mL	+/- 0.0654 µg/mL	Gravimetric
	CAS # 76-44-8 (Lot 803759)		+/- 0.3672 µg/mL	Unstressed
	Purity 99%		+/- 0.5281 µg/mL	Stressed
6	Aldrin	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 309-00-2 (Lot 12983100)		+/- 0.3702 µg/mL	Unstressed
	Purity 96%		+/- 0.5323 µg/mL	Stressed
7	Heptachlor epoxide (isomer B)	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 1024-57-3 (Lot 13168200)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed

8	trans-Chlordane		8.0	µg/mL	+/-	0.0657	µg/mL	Gravimetric
	CAS # 5103-74-2	(Lot 32943)			+/-	0.3689	µg/mL	Unstressed
	Purity 98%				+/-	0.5305	µg/mL	Stressed
9	cis-Chlordane		8.0	µg/mL	+/-	0.0657	µg/mL	Gravimetric
	CAS # 5103-71-9	(Lot 31766)			+/-	0.3689	µg/mL	Unstressed
	Purity 98%				+/-	0.5305	µg/mL	Stressed
10	Endosulfan I		8.0	µg/mL	+/-	0.0654	µg/mL	Gravimetric
	CAS # 959-98-8	(Lot BCCF4060)			+/-	0.3672	µg/mL	Unstressed
	Purity 99%				+/-	0.5281	µg/mL	Stressed
11	4,4'-DDE		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 72-55-9	(Lot GHYQG)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed
12	Dieldrin		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 60-57-1	(Lot 11129900)			+/-	0.7408	µg/mL	Unstressed
	Purity 98%				+/-	1.0653	µg/mL	Stressed
13	Endrin		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 72-20-8	(Lot 13157400)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
14	4,4'-DDD		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 72-54-8	(Lot HAN02)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
15	Endosulfan II		16.0	µg/mL	+/-	0.1309	µg/mL	Gravimetric
	CAS # 33213-65-9	(Lot 12448900)			+/-	0.7345	µg/mL	Unstressed
	Purity 99%				+/-	1.0562	µg/mL	Stressed
16	4,4'-DDT		16.1	µg/mL	+/-	0.1315	µg/mL	Gravimetric
	CAS # 50-29-3	(Lot 220428JLM)			+/-	0.7378	µg/mL	Unstressed
	Purity 98%				+/-	1.0610	µg/mL	Stressed
17	Endrin aldehyde		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 7421-93-4	(Lot 30720)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed
18	Endosulfan sulfate		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 1031-07-8	(Lot BCCB0424)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
19	Methoxychlor		80.2	µg/mL	+/-	0.5781	µg/mL	Gravimetric
	CAS # 72-43-5	(Lot 13027000)			+/-	3.6697	µg/mL	Unstressed
	Purity 98%				+/-	5.2871	µg/mL	Stressed
20	Endrin ketone		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 53494-70-5	(Lot 13026800)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

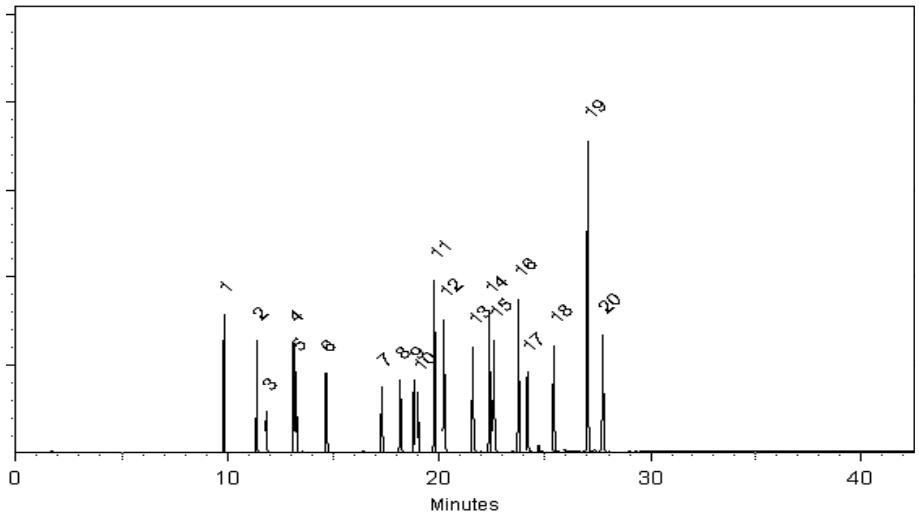
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 19-May-2022 **Balance:** B442140311

Fang-Yun Lo - QC Analyst

Date Passed: 26-May-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-502-36-10X
Description: Hexachlorobutadiene
Lot: 222031188
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 11, 2022
Expiration: Apr 11, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobutadiene	87-68-3	98.0	2002	1962

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

125 Market Street
New Haven, CT 06513
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CERTIFICATE OF ANALYSIS

Catalog No: M-502-36-10X
Description: Hexachlorobutadiene
Lot: 222031188
Solvent: Methanol
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Signal Word: Danger

Date Certified: Mar 11, 2022
Expiration: Apr 11, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobutadiene	87-68-3	98.0	2002	1962

K 011468

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1123B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-01 A	File ID:	01112308ECD7.D
Sampled:	12/16/22 08:19	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 11:23
% Solids:	56.64	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.07 g Wet / 2.5 mL
Batch:	BLA0069	Sequence:	SLA0136	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	116	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	143	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	127	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9997*	*7.73*	*96.6*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9997*	*4.94*	*61.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9997*	*7.10*	*88.8*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9997*	*5.45*	*68.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112308ECD7.D
Data file 2: /230111.b/230111.b/01112308ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0459-01
Client ID:
Injection Date: 11-JAN-2023 11:23
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.824	-0.007	134364	5.701	-0.006	104280	24.7	27.3	9.9	Tetrachloro-m-xylene
13.894	-0.010	133821	14.122	-0.007	165185	38.6	35.5	8.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	384154	-14.2
Hexabromobiphenyl	798898	377823	-52.7 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	279041	12.0
Hexabromobiphenyl	362541	327497	-9.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.408	-0.020	78613	475.9	1	8.310	-0.010	61727	541.5
Aroclor-1248	2	8.576	-0.028	67077	318.1	2	8.716	-0.010	61381	512.0
Aroclor-1248	3	8.993	-0.029	186857	492.5	3	9.147	-0.027	82342	564.6
Aroclor-1248	4	9.296	-0.015	190247	1023.6	4	9.541	-0.058	70227	410.2
		Total Col1Ave (4 peaks):			577.5		Total Col2Ave (4 peaks):			507.1 RPD = 13
		Corrected Ave (3 peaks):			428.9		Corrected Ave (3 peaks):			487.9 RPD = 13
										539.37
Aroclor-1254	1	9.296	-0.019	190247	562.5	1	9.447	-0.014	134121	745.5
Aroclor-1254	2	9.372	-0.021	77806	591.5	2	9.965	-0.015	67015	463.3
Aroclor-1254	3	9.673	-0.012	195464	915.0	3	10.113	-0.020	239084	769.0
Aroclor-1254	4	9.796	-0.029	266187	639.2	4	10.361	-0.023	281950	875.6
Aroclor-1254	5	10.130	-0.061	152508	534.3	5	10.562	-0.018	199022	1281.5
		Total Col1Ave (5 peaks):			648.5		Total Col2Ave (5 peaks):			827.0 RPD = 24
		Corrected Ave (4 peaks):			581.9		Corrected Ave (4 peaks):			713.4 RPD = 20
					677.05					
Aroclor-1260	1	11.042	-0.020	101468	737.8	1	11.652	-0.011	122726	709.9
Aroclor-1260	2	11.358	-0.019	91294	641.8	2	11.912	-0.014	238485	549.8
Aroclor-1260	3	11.727	-0.025	236309	632.3	3	12.432	-0.013	80424	696.2
Aroclor-1260	4	12.128	-0.030	133520	701.5	4	12.496	-0.014	167209	578.2
Aroclor-1260	5	12.242	-0.019	54759	702.8	NS	---			----
		Total Col1Ave (5 peaks):			683.2		Total Col2Ave (4 peaks):			633.5 RPD = 8
		Corrected Ave (4 peaks):			669.6		Corrected Ave (3 peaks):			608.1 RPD = 10
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.804) = 4913075 Col1 Total PCB = 1.3 ppm*

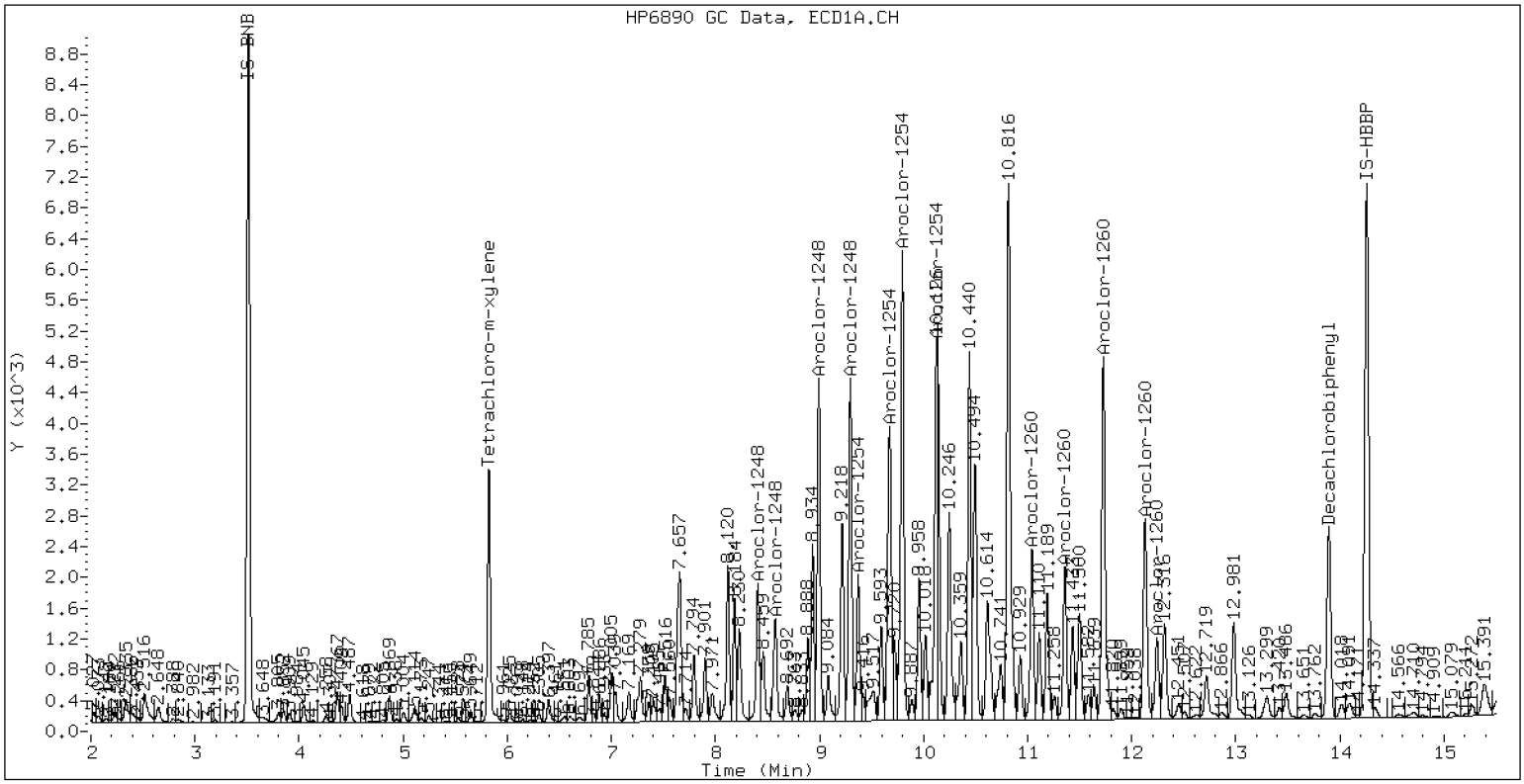
Total PCB Area Col2 (5.807 - 14.028) = 4184632 Col2 Total PCB = 1.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

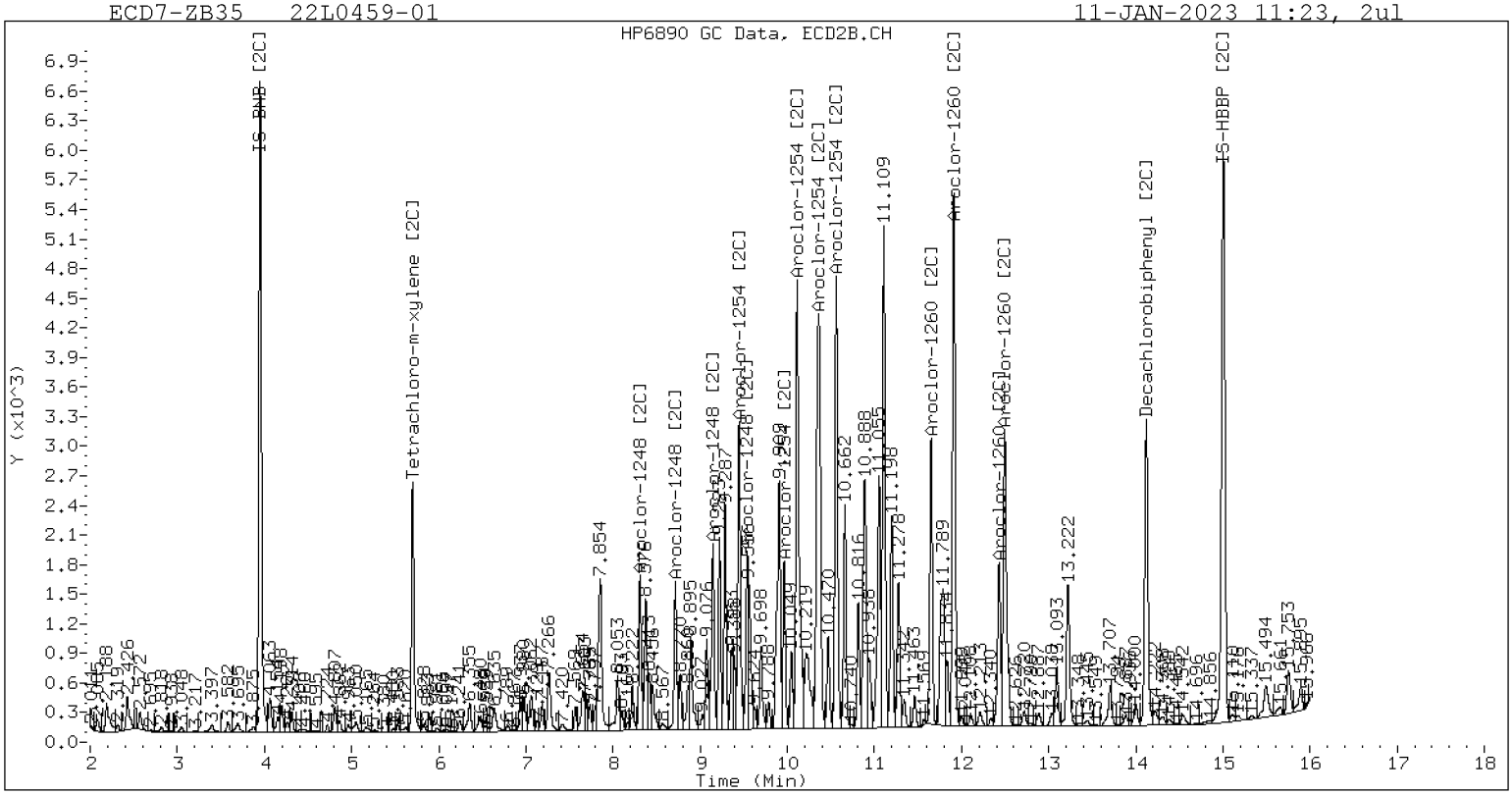
PCB Dual Column Chromatograms

ECD7-ZB5 22L0459-01 11-JAN-2023 11:23, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0459-01 11-JAN-2023 11:23, 2ul

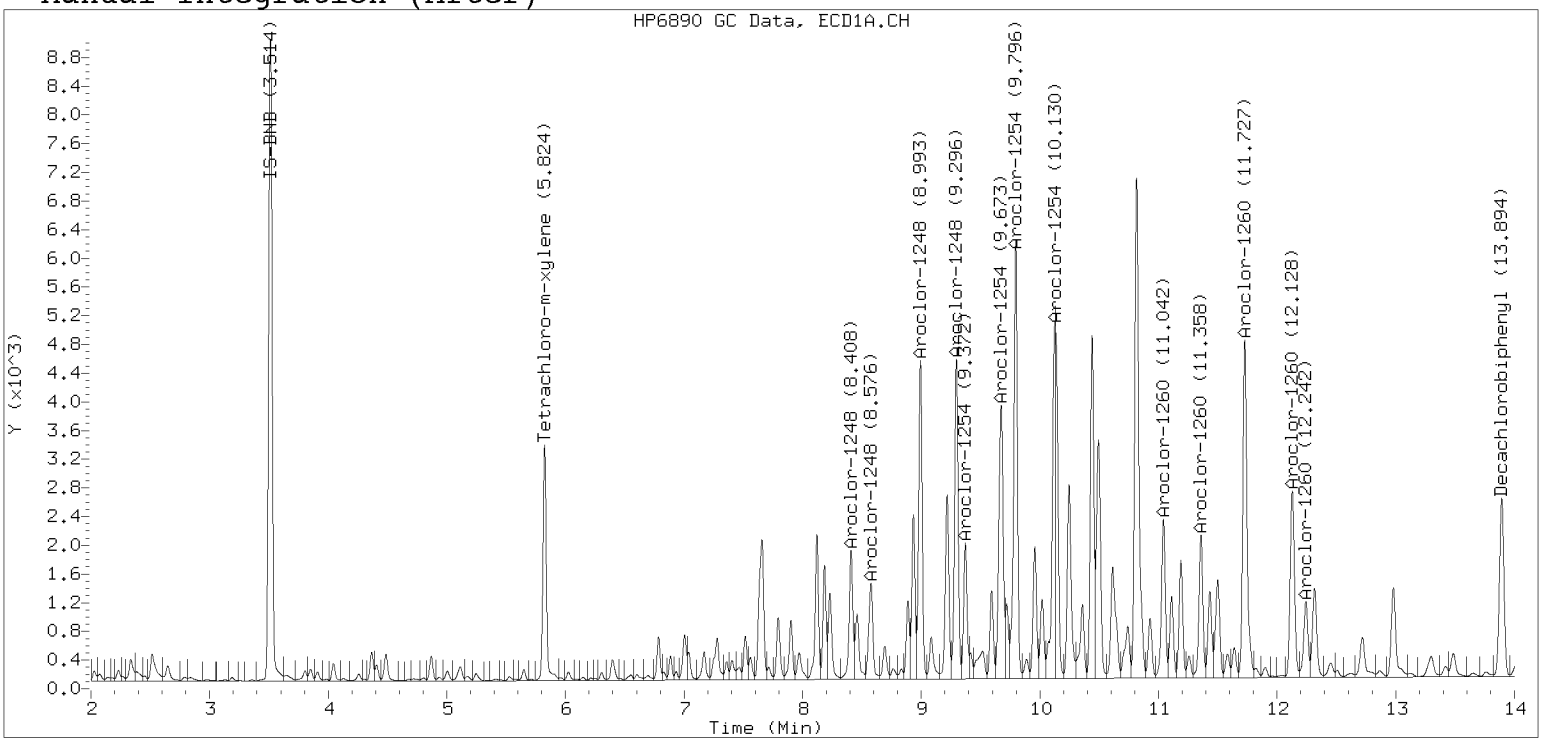


ZB-35 Manual Integration: YES

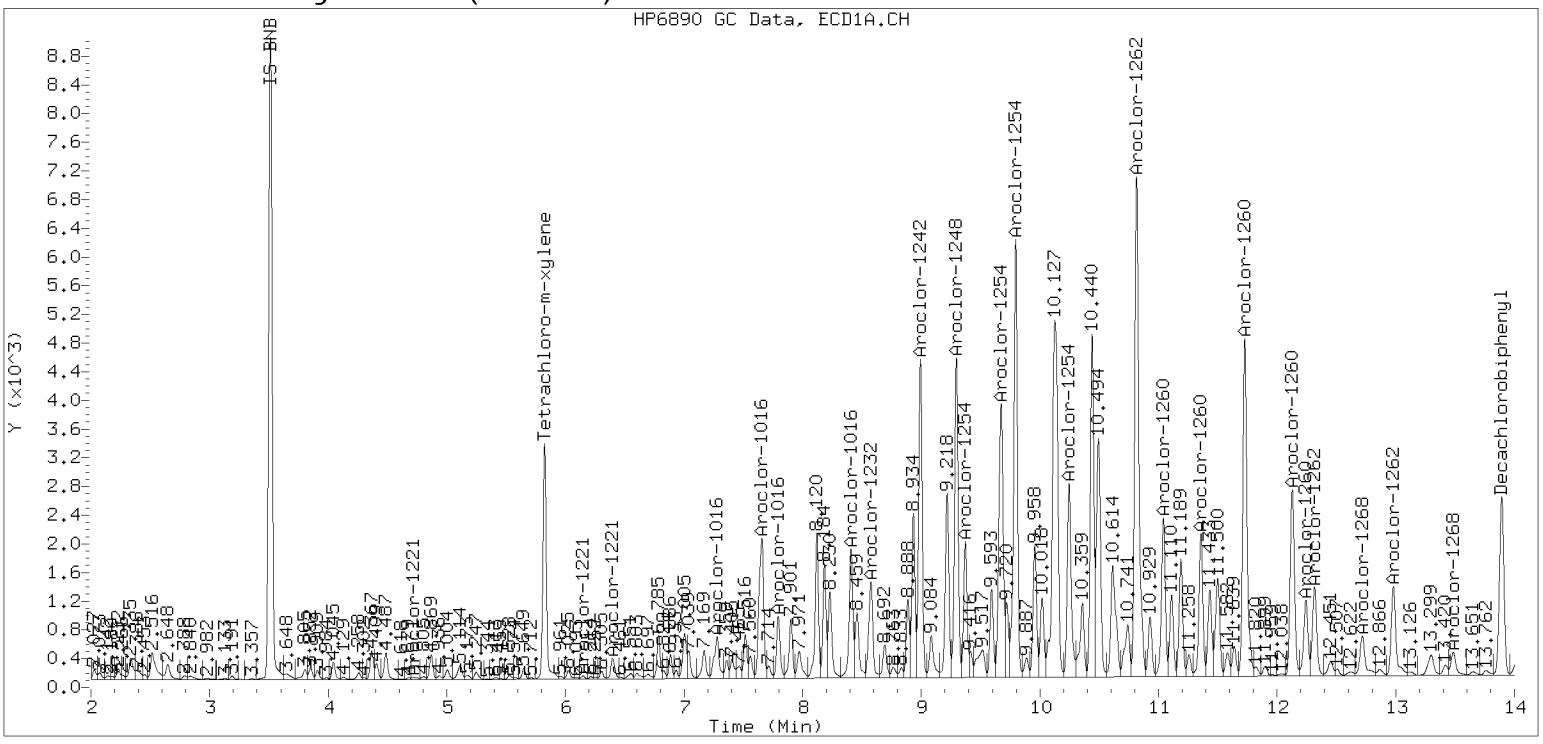
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230111.b/01112308ECD7.D Injection Date: 11-JAN-2023 11:23

Manual Integration (After)



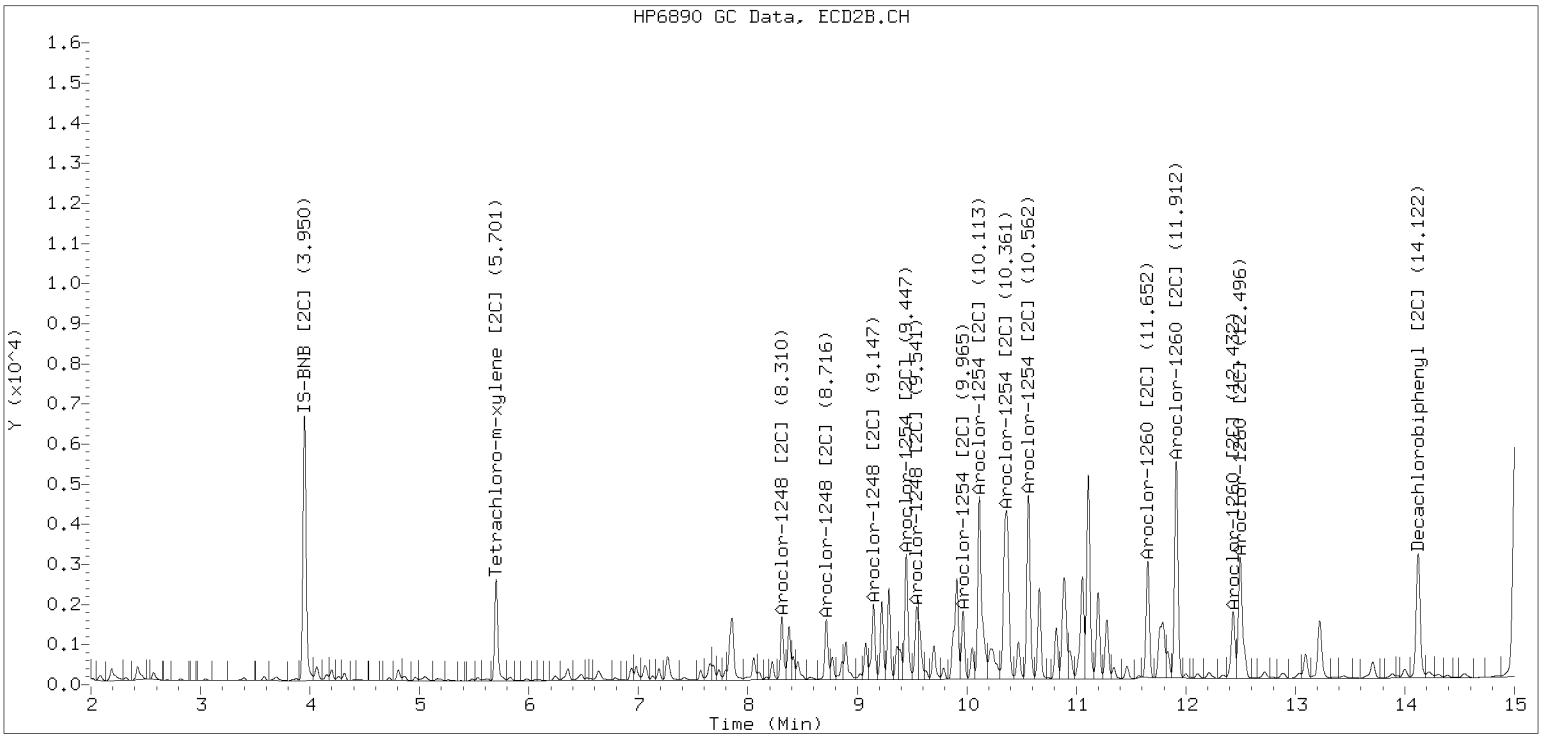
Processed Integration (Before)



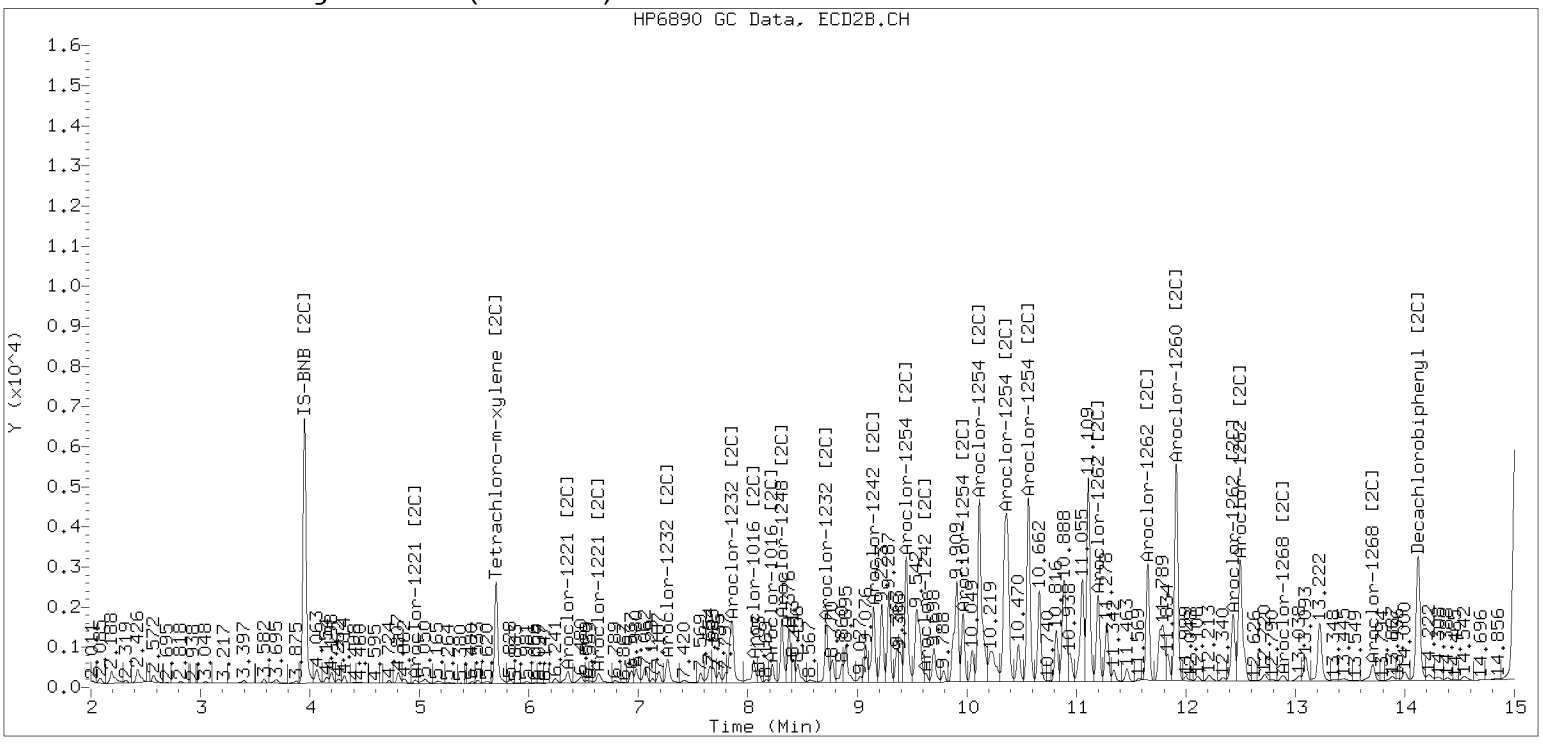
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230111.b/230111.b/01112308ECD7.D Injection Date: 11-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1053C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-02 A	File ID:	01112309ECD7.D
Sampled:	12/16/22 09:12	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 11:44
% Solids:	57.86	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.65 g Wet / 2.5 mL
Batch:	BLA0069	Sequence:	SLA0136	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	46.9	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	62.6	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	38.7	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9830*	*7.05*	*88.3*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9830*	*4.82*	*60.4*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9830*	*6.48*	*81.1*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9830*	*5.34*	*66.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112309ECD7.D
Data file 2: /230111.b/230111.b/01112309ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0459-02
Client ID:
Injection Date: 11-JAN-2023 11:44
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.007	133400	5.701	-0.005	106310	24.1	26.8	10.3	Tetrachloro-m-xylene
13.894	-0.010	133805	14.122	-0.006	162606	35.3	32.5	8.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	389830	-12.9
Hexabromobiphenyl	798898	413106	-48.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	289694	16.3
Hexabromobiphenyl	362541	352918	-2.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.409	-0.019	36041	215.0	1	8.311	-0.009	29394	248.4
Aroclor-1248	2	8.577	-0.027	28128	131.4	2	8.717	-0.010	26891	216.0
Aroclor-1248	3	8.995	-0.027	73311	190.4	3	9.148	-0.026	33544	221.5
Aroclor-1248	4	9.297	-0.014	76181	403.9	4	9.542	-0.057	29537	166.2
		Total Col1Ave (4 peaks):			235.2		Total Col2Ave (4 peaks):			213.0 RPD = 10
		Corrected Ave (3 peaks):			179.0		Corrected Ave (3 peaks):			201.3 RPD = 12
										228.63
Aroclor-1254	1	9.297	-0.019	76181	222.0	1	9.448	-0.013	54705	292.9
Aroclor-1254	2	9.372	-0.021	31994	239.7	2	9.966	-0.015	25401	169.2
Aroclor-1254	3	9.670	-0.015	57434	264.9	3	10.113	-0.020	96896	300.2
Aroclor-1254	4	9.797	-0.028	106658	252.4	4	10.362	-0.021	112579	336.8
Aroclor-1254	5	10.134	-0.057	53946	186.2	5	10.563	-0.017	75826	470.3
		Total Col1Ave (5 peaks):			233.0		Total Col2Ave (5 peaks):			313.9 RPD = 30
		Corrected Ave (4 peaks):			225.1		Corrected Ave (4 peaks):			274.8 RPD = 20
					244.75					
Aroclor-1260	1	11.043	-0.019	35046	233.1	1	11.652	-0.011	41521	222.9
Aroclor-1260	2	11.358	-0.020	28688	184.5	2	11.913	-0.013	74198	158.7
Aroclor-1260	3	11.727	-0.024	80662	197.4	3	12.432	-0.012	27754	223.0
Aroclor-1260	4	12.128	-0.030	42766	205.5	4	12.496	-0.014	53147	170.6
Aroclor-1260	5	12.244	-0.018	19172	225.1	NS	---			----
		Total Col1Ave (5 peaks):			209.1		Total Col2Ave (4 peaks):			193.8 RPD = 8
		Corrected Ave (4 peaks):			203.1		Corrected Ave (3 peaks):			184.1 RPD = 10
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.804) = 1941295 Col1 Total PCB = 0.5 ppm*

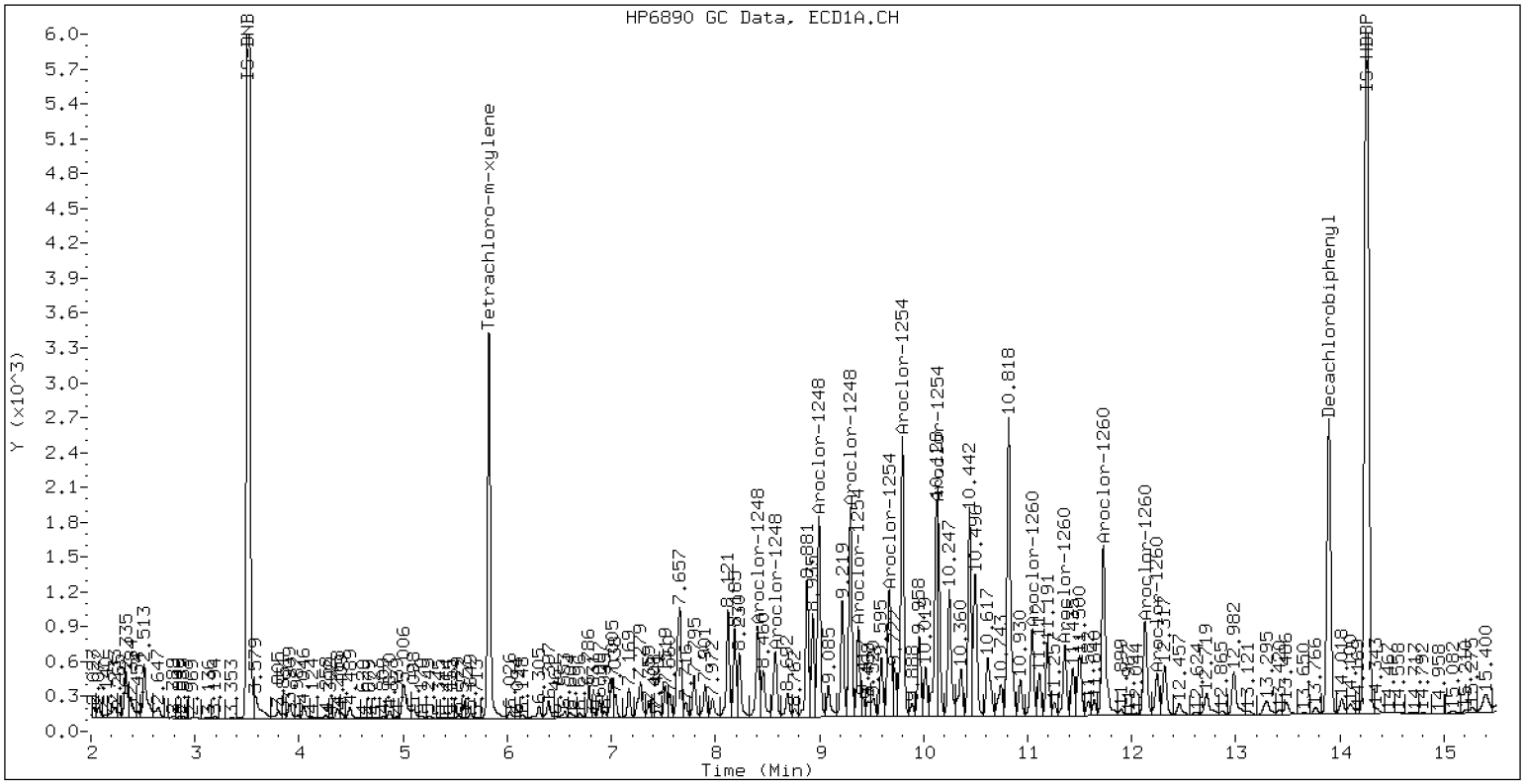
Total PCB Area Col2 (5.807 - 14.028) = 1658519 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

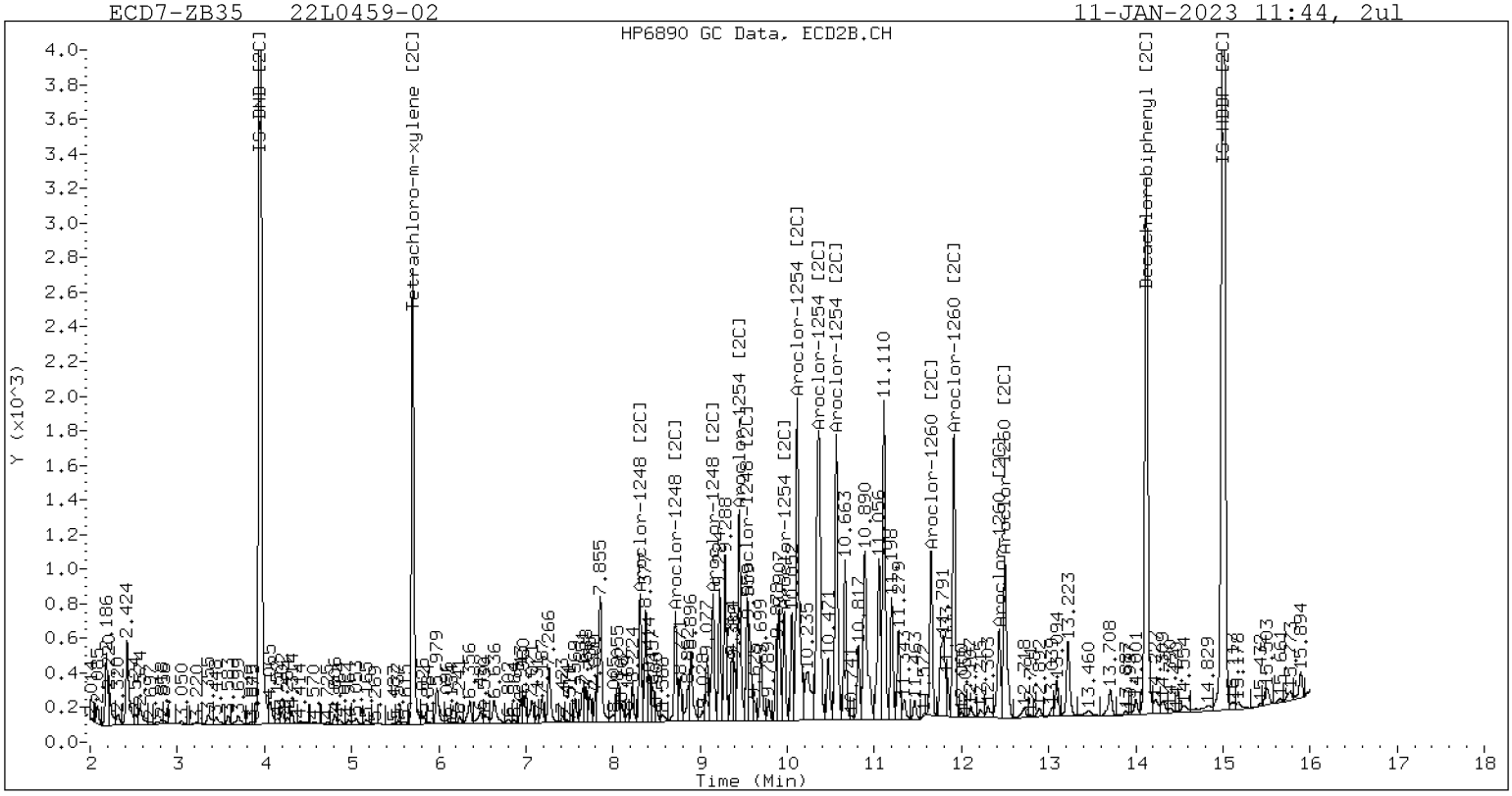
PCB Dual Column Chromatograms

ECD7-ZB5 22L0459-02 11-JAN-2023 11:44, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0459-02 11-JAN-2023 11:44, 2ul

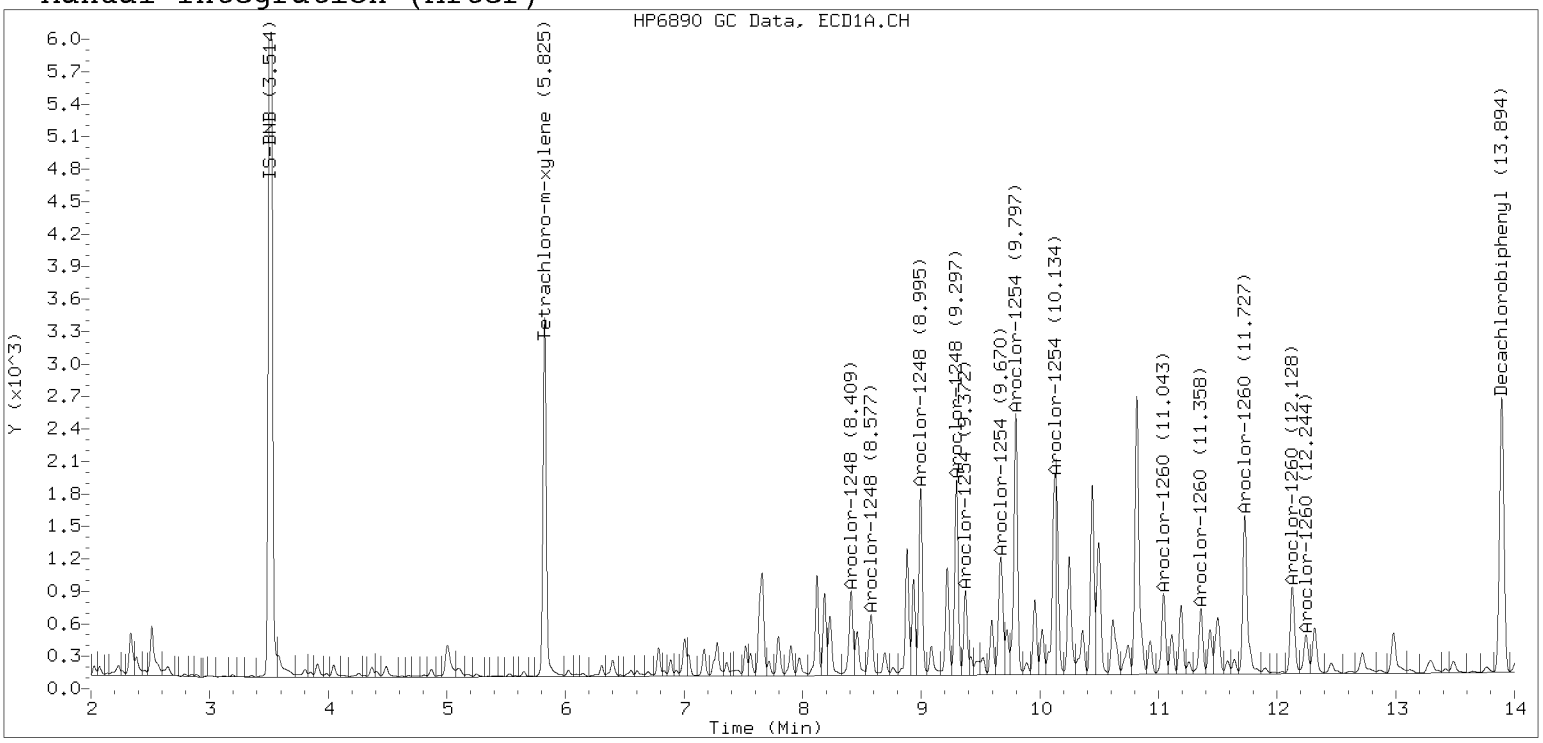


ZB-35 Manual Integration: YES

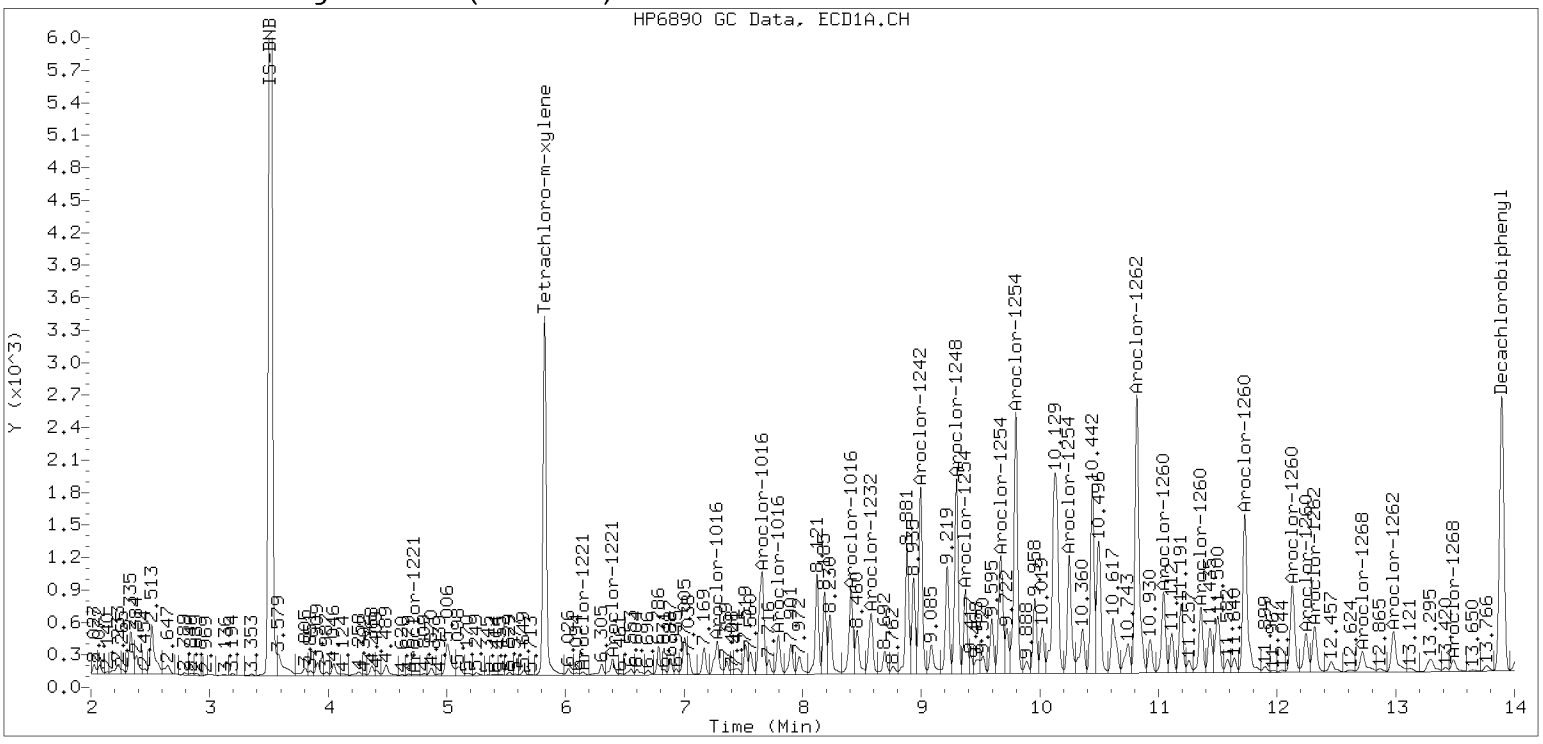
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230111.b/01112309ECD7.D Injection Date: 11-JAN-2023 11:44

Manual Integration (After)



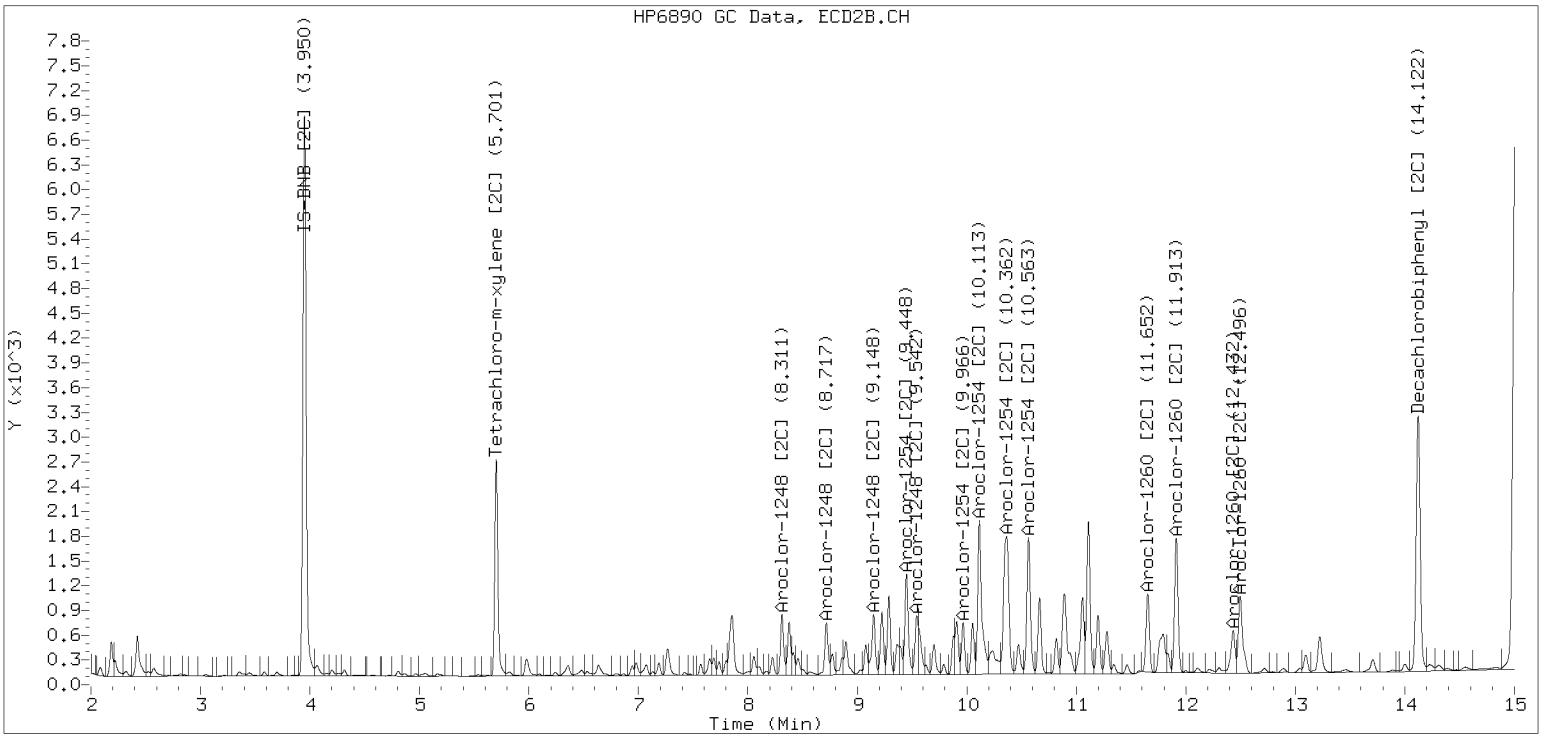
Processed Integration (Before)



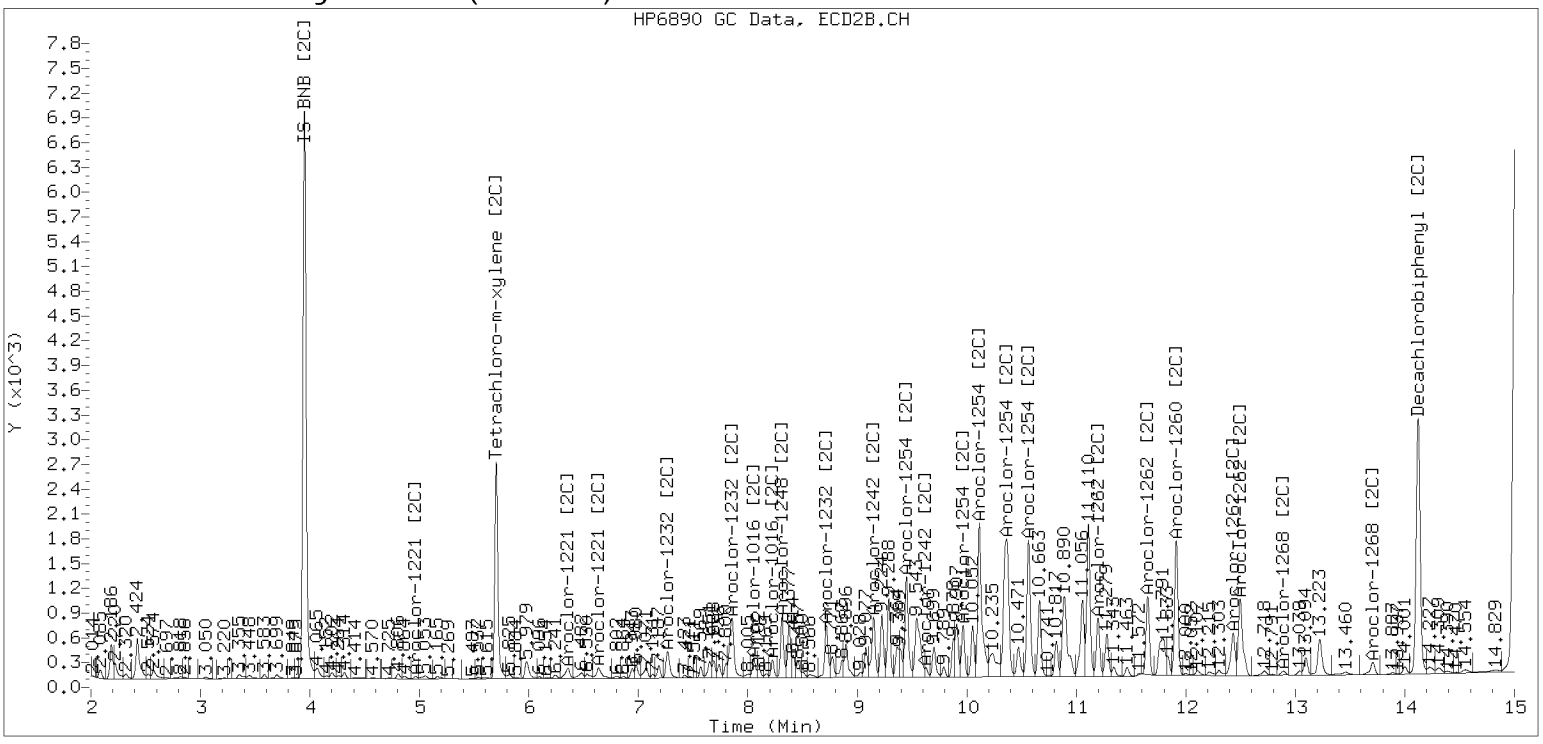
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230111.b/230111.b/01112309ECD7.D Injection Date: 11-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1039C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-03 A	File ID:	01112310ECD7.D
Sampled:	12/16/22 09:50	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 12:05
% Solids:	55.02	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.72 g Wet / 2.5 mL
Batch:	BLA0069	Sequence:	SLA0136	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	86.5	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	122	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	87.8	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9997*	*7.87*	*98.4*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9997*	*4.66*	*58.2*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9997*	*7.27*	*90.9*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9997*	*5.40*	*67.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112310ECD7.D
Data file 2: /230111.b/230111.b/01112310ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0459-03
Client ID:
Injection Date: 11-JAN-2023 12:05
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.824	-0.007	128616	5.701	-0.006	103159	23.3	27.0	14.7	Tetrachloro-m-xylene
13.894	-0.010	132280	14.121	-0.008	165691	39.3	36.4	7.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	389672	-13.0
Hexabromobiphenyl	798898	366773	-54.1 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	278770	11.9
Hexabromobiphenyl	362541	320967	-11.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.409	-0.019	59306	354.0	1	8.311	-0.010	45339	398.1
Aroclor-1248	2	8.576	-0.028	53102	248.2	2	8.716	-0.010	50347	420.3
Aroclor-1248	3	8.993	-0.030	142187	369.5	3	9.148	-0.027	69872	479.6
Aroclor-1248	4	9.297	-0.015	134297	712.3	4	9.542	-0.057	51936	303.7
		Total Col1Ave (4 peaks):			421.0		Total Col2Ave (4 peaks):			400.4 RPD = 5
		Corrected Ave (3 peaks):			323.9		Corrected Ave (3 peaks):			374.0 RPD = 14
										432.67
Aroclor-1254	1	9.297	-0.019	134297	391.4	1	9.447	-0.014	97115	540.3
Aroclor-1254	2	9.372	-0.021	58781	440.5	2	9.966	-0.015	52498	363.3
Aroclor-1254	3	9.669	-0.017	109294	504.4	3	10.114	-0.019	178778	575.6
Aroclor-1254	4	9.796	-0.029	194854	461.3	4	10.356	-0.027	210031	652.9
Aroclor-1254	5	10.134	-0.057	98026	338.5	5	10.563	-0.017	141626	912.8
		Total Col1Ave (5 peaks):			427.2		Total Col2Ave (5 peaks):			609.0 RPD = 35
		Corrected Ave (4 peaks):			408.0		Corrected Ave (4 peaks):			533.0 RPD = 27
					449.4					
Aroclor-1260	1	11.043	-0.019	66615	499.0	1	11.651	-0.011	87559	516.8
Aroclor-1260	2	11.358	-0.020	64513	467.2	2	11.913	-0.013	154127	362.5
Aroclor-1260	3	11.727	-0.025	149263	411.4	3	12.432	-0.012	53471	472.3
Aroclor-1260	4	12.128	-0.030	89386	483.8	4	12.496	-0.014	114663	404.6
Aroclor-1260	5	12.244	-0.018	40966	541.6	NS	---			----
		Total Col1Ave (5 peaks):			480.6		Total Col2Ave (4 peaks):			439.1 RPD = 9
		Corrected Ave (4 peaks):			465.3		Corrected Ave (3 peaks):			413.1 RPD = 12
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.804) = 3636015 Col1 Total PCB = 1.0 ppm*

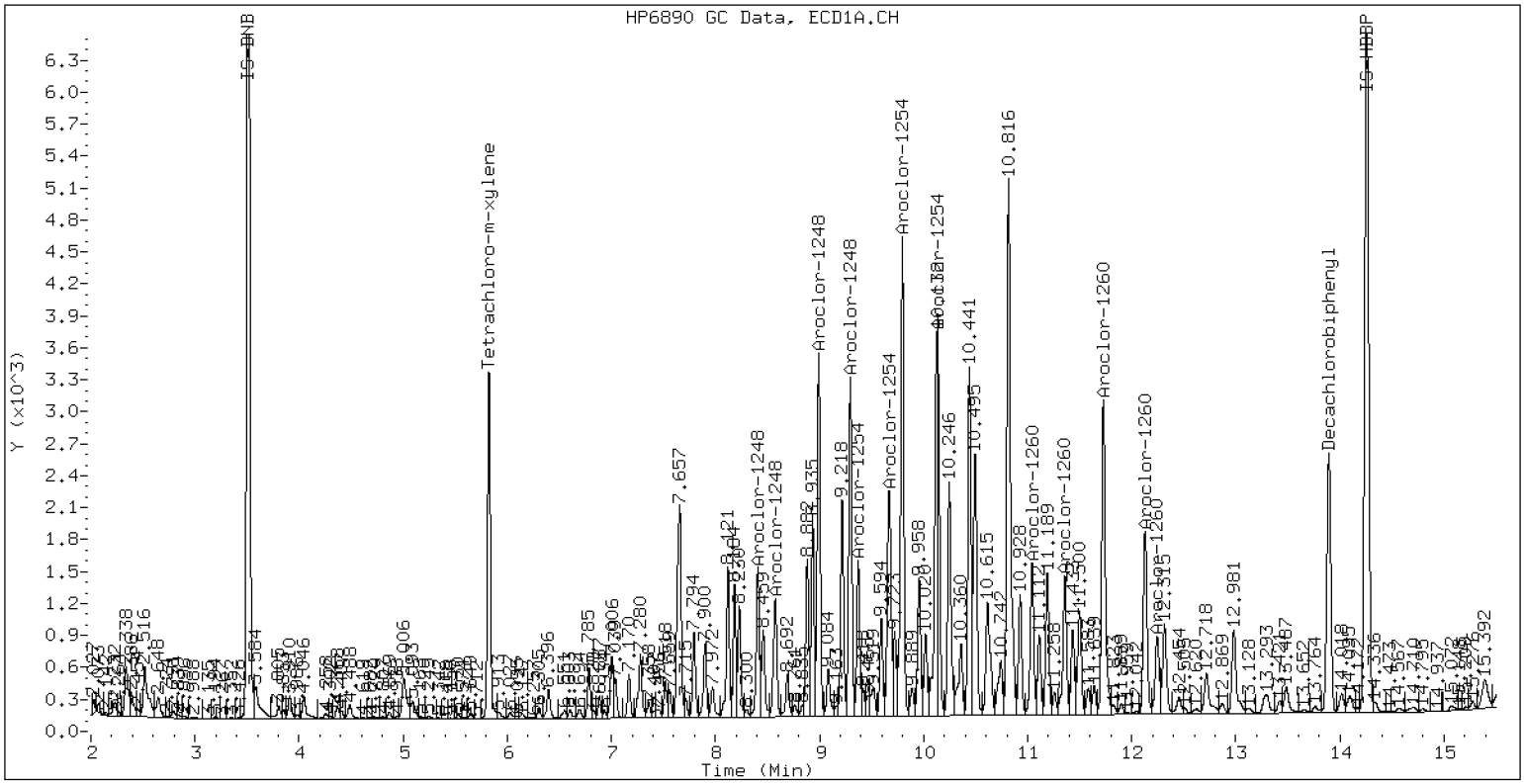
Total PCB Area Col2 (5.807 - 14.028) = 3167753 Col2 Total PCB = 1.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

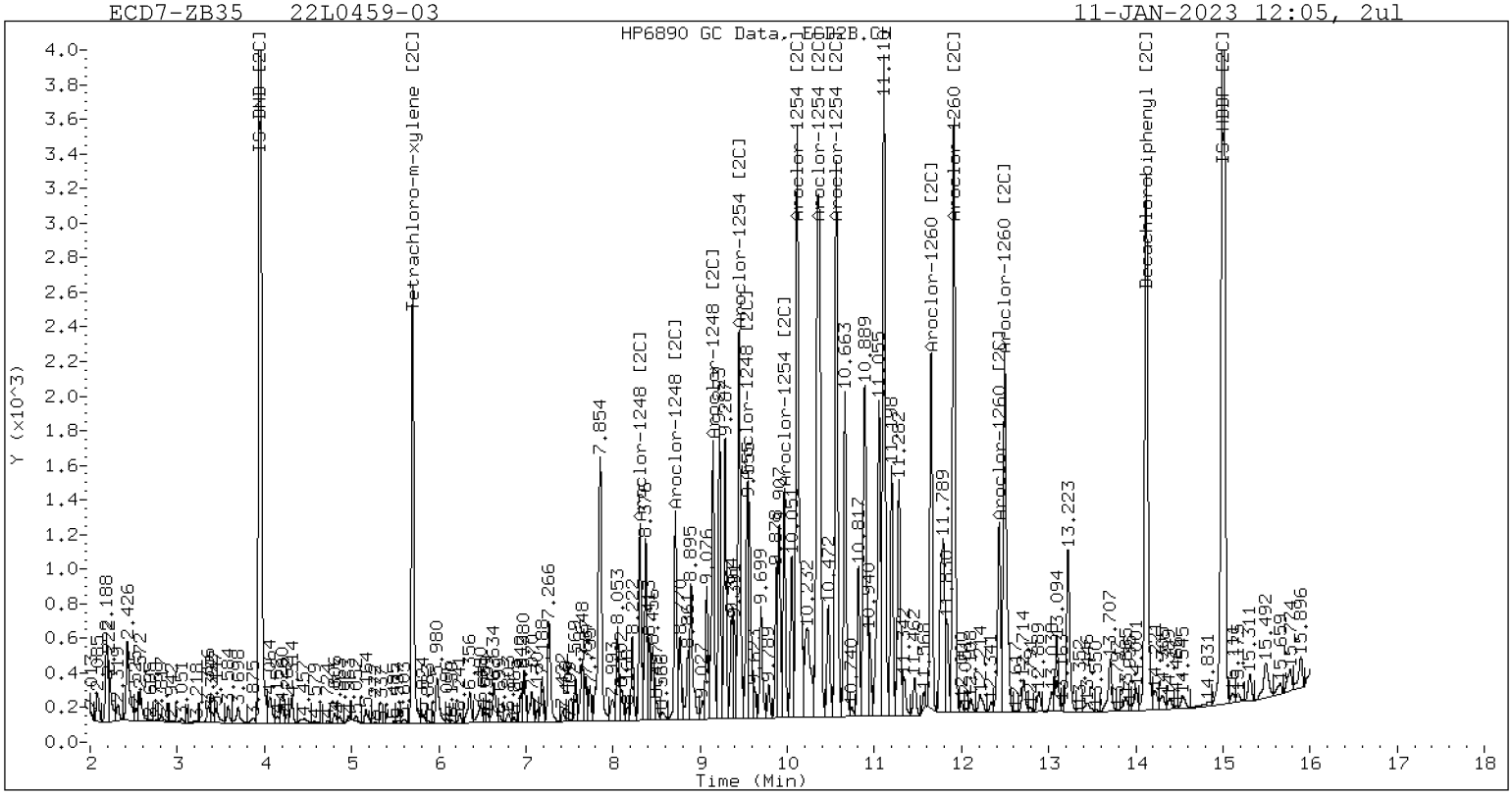
PCB Dual Column Chromatograms

ECD7-ZB5 22L0459-03 11-JAN-2023 12:05, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0459-03 11-JAN-2023 12:05, 2ul

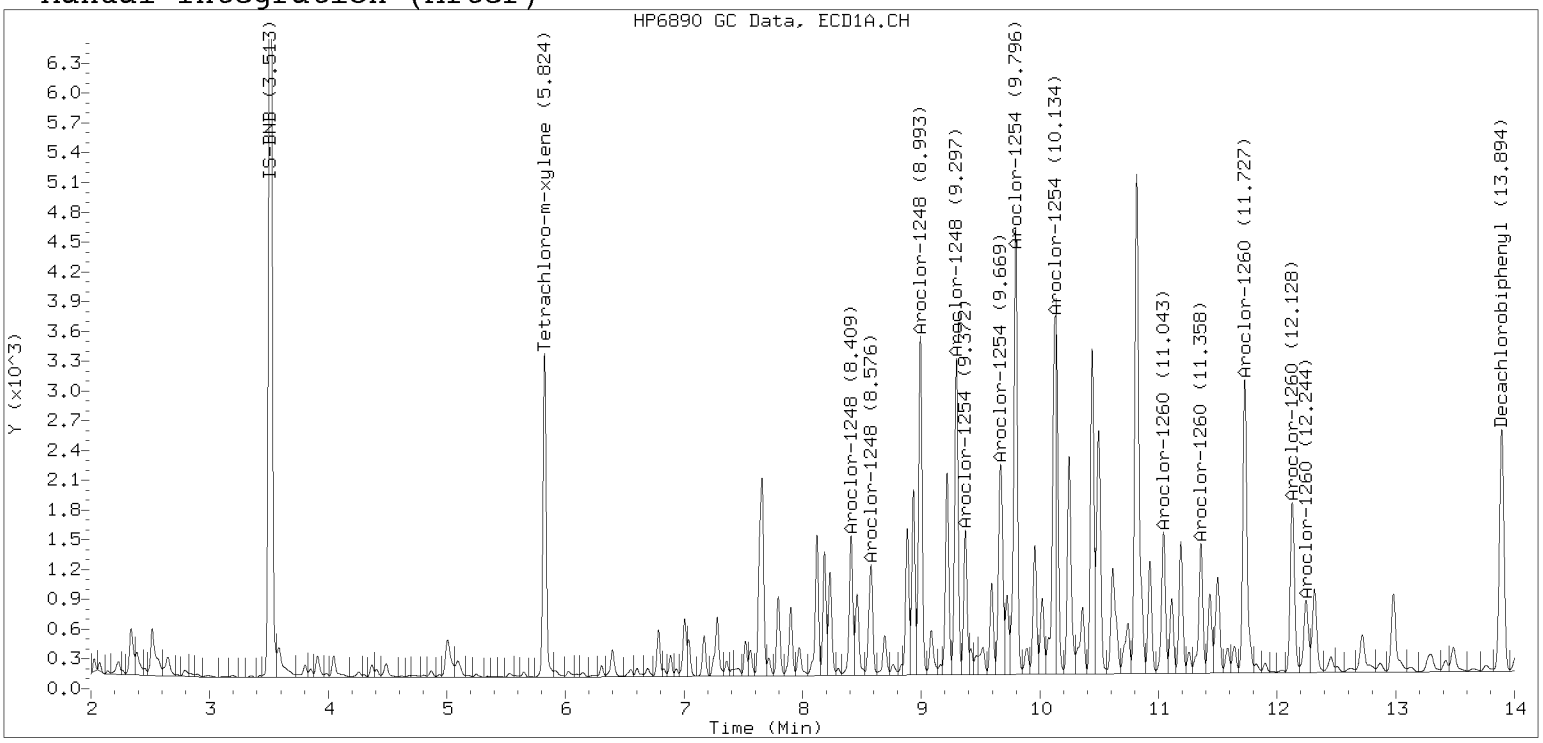


ZB-35 Manual Integration: YES

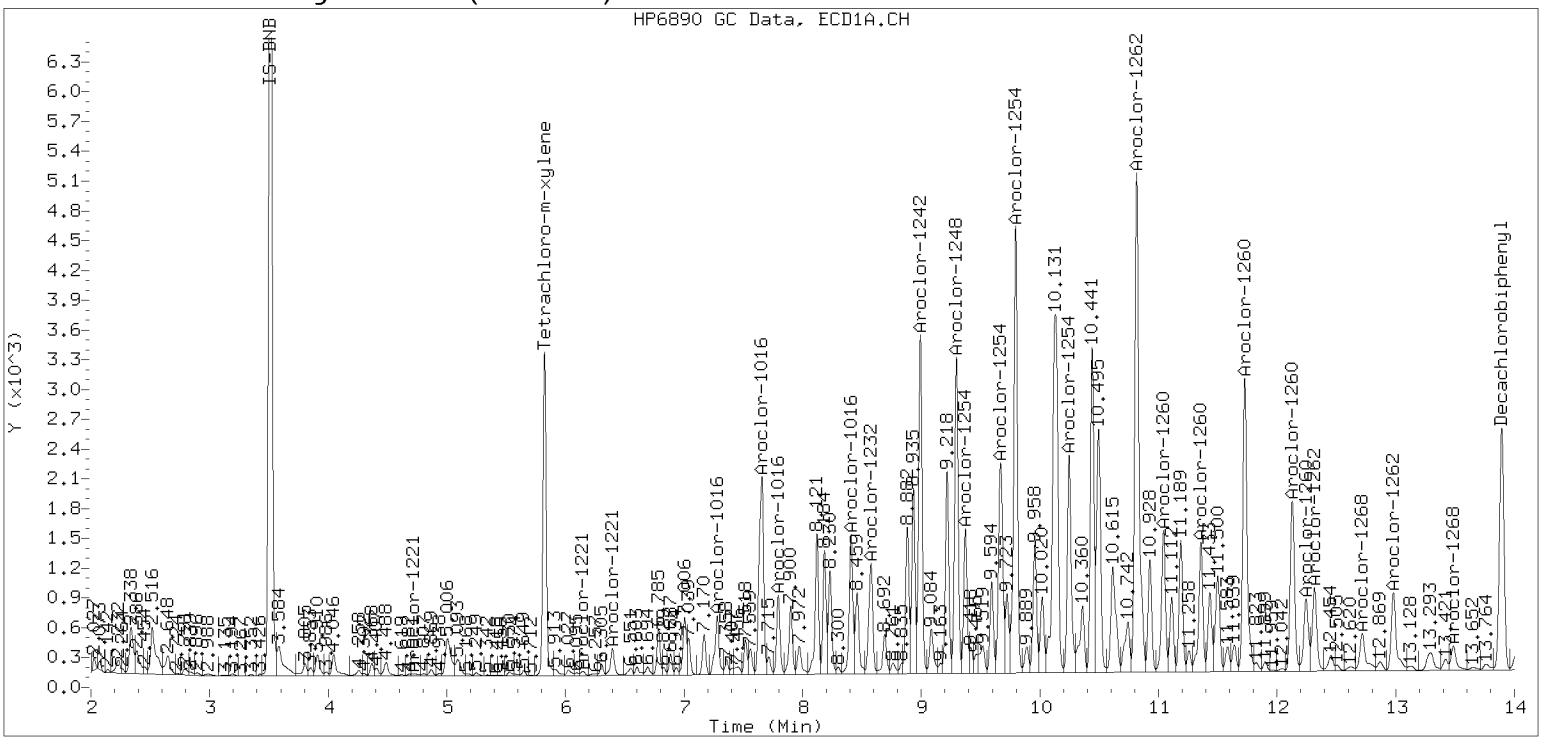
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230111.b/01112310ECD7.D Injection Date: 11-JAN-2023 12:05

Manual Integration (After)



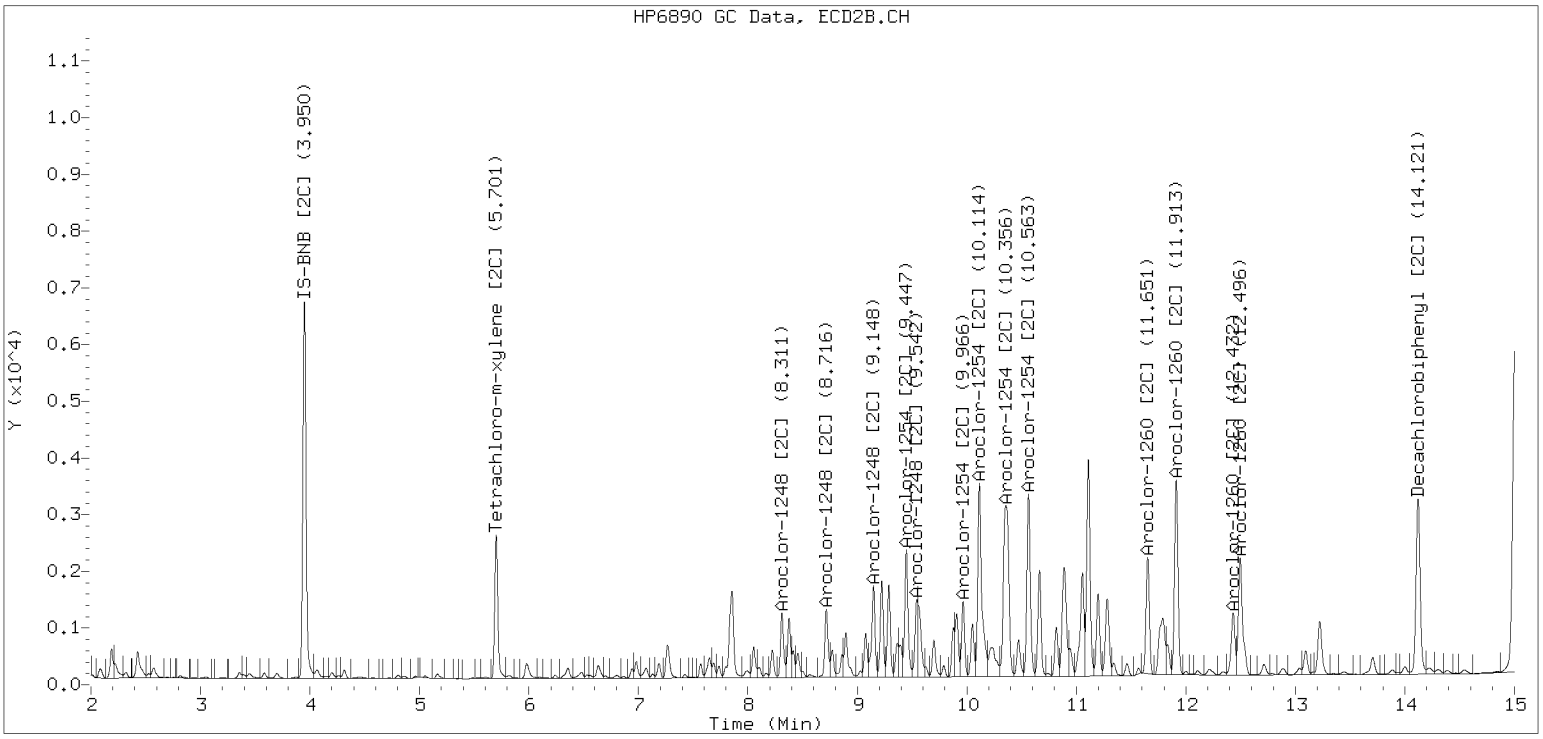
Processed Integration (Before)



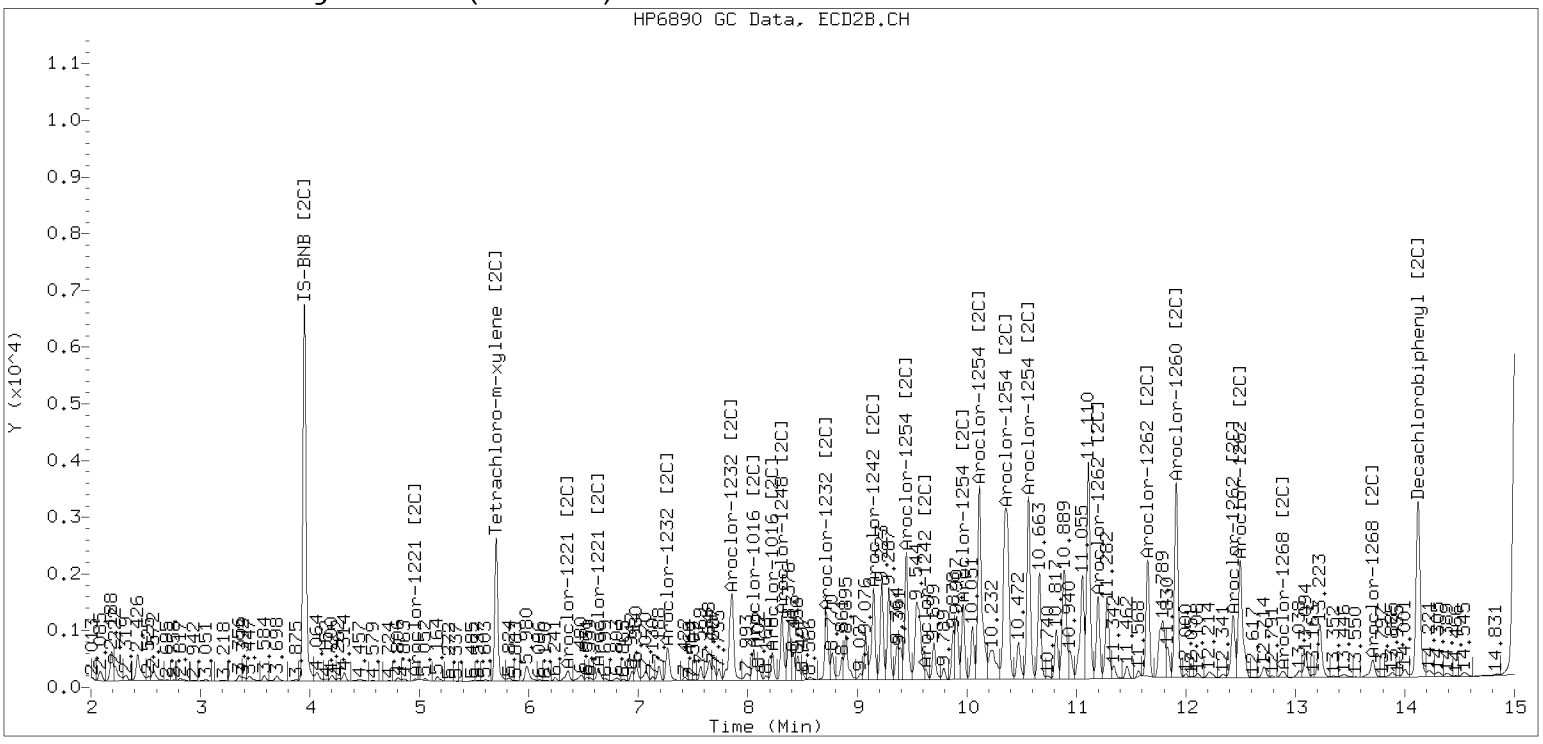
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230111.b/230111.b/01112310ECD7.D Injection Date: 11-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1007B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-04 A	File ID:	01112313ECD7.D
Sampled:	12/16/22 10:43	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 13:08
% Solids:	56.35	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.19 g Wet / 2.5 mL
Batch:	BLA0069	Sequence:	SLA0136	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	32.3	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	51.6	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	38.5	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9974*	*7.42*	*92.8*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9974*	*5.04*	*63.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9974*	*6.91*	*86.3*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9974*	*5.65*	*70.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112313ECD7.D
Data file 2: /230111.b/230111.b/01112313ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0459-04
Client ID:
Injection Date: 11-JAN-2023 13:08
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.005	142252	5.703	-0.004	111410	25.2	28.2	11.4	Tetrachloro-m-xylene
13.895	-0.009	138202	14.122	-0.007	166227	37.1	34.5	7.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	398402	-11.0
Hexabromobiphenyl	798898	406199	-49.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	287796	15.5
Hexabromobiphenyl	362541	338978	-6.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.410	-0.017	22456	131.1	1	8.312	-0.008	18128	154.2
Aroclor-1248	2	8.579	-0.025	18287	83.6	2	8.718	-0.009	17618	142.5
Aroclor-1248	3	8.996	-0.026	53626	136.3	3	9.150	-0.025	24757	164.6
Aroclor-1248	4	9.298	-0.013	56902	295.2	4	9.543	-0.056	21784	123.4
	Total Col1Ave (4 peaks):				161.6	Total Col2Ave (4 peaks):				146.2 RPD = 10
	Corrected Ave (3 peaks):				117.0	Corrected Ave (3 peaks):				140.0 RPD = 18
Aroclor-1254	1	9.298	-0.018	56902	162.2	1	9.449	-0.012	42396	228.5
Aroclor-1254	2	9.374	-0.019	23190	170.0	2	9.967	-0.014	21976	147.3
Aroclor-1254	3	9.669	-0.017	43363	195.7	3	10.115	-0.018	76186	237.6
Aroclor-1254	4	9.798	-0.027	81035	187.6	4	10.363	-0.020	90895	273.7
Aroclor-1254	5	10.131	-0.060	60019	202.7	5	10.564	-0.016	64783	404.5
	Total Col1Ave (5 peaks):				183.7	Total Col2Ave (5 peaks):				258.3 RPD = 34
	Corrected Ave (4 peaks):				178.9	Corrected Ave (4 peaks):				221.8 RPD = 21
Aroclor-1260	1	11.044	-0.019	32155	217.5	1	11.654	-0.009	37241	208.1
Aroclor-1260	2	11.358	-0.019	27596	180.5	2	11.914	-0.012	70386	156.8
Aroclor-1260	3	11.729	-0.023	76881	191.3	3	12.432	-0.012	27948	233.8
Aroclor-1260	4	12.129	-0.029	40928	200.0	4	12.497	-0.014	51436	171.9
Aroclor-1260	5	12.243	-0.018	18361	219.2	NS	---			----
	Total Col1Ave (5 peaks):				201.7	Total Col2Ave (4 peaks):				192.6 RPD = 5
	Corrected Ave (4 peaks):				197.3	Corrected Ave (3 peaks):				178.9 RPD = 10
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

153.77

Total PCB Area Col1 (5.932 - 13.804) = 1703151 Col1 Total PCB = 0.4 ppm*

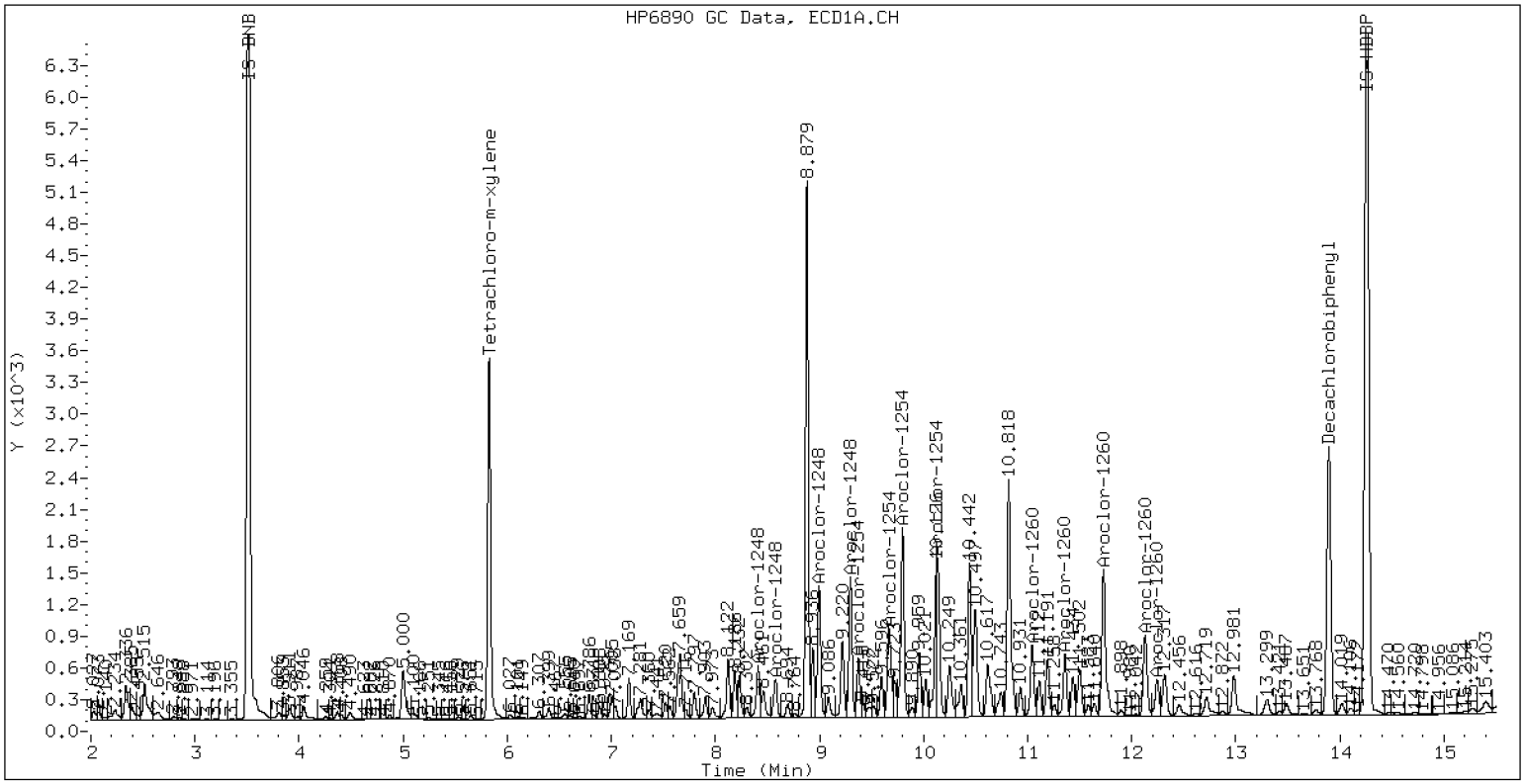
Total PCB Area Col2 (5.807 - 14.028) = 1405865 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

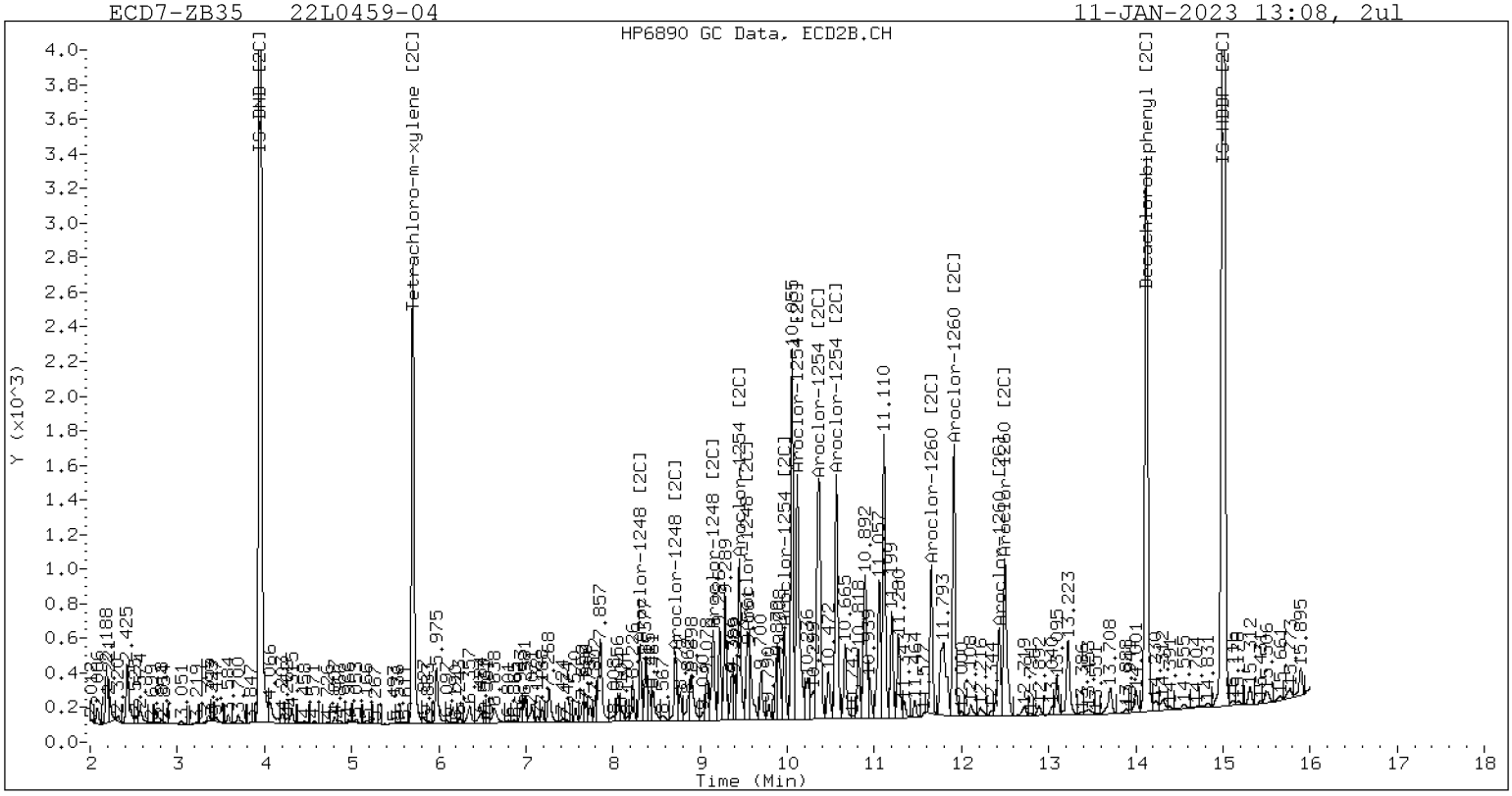
PCB Dual Column Chromatograms

ECD7-ZB5 22L0459-04 11-JAN-2023 13:08, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0459-04 11-JAN-2023 13:08, 2ul

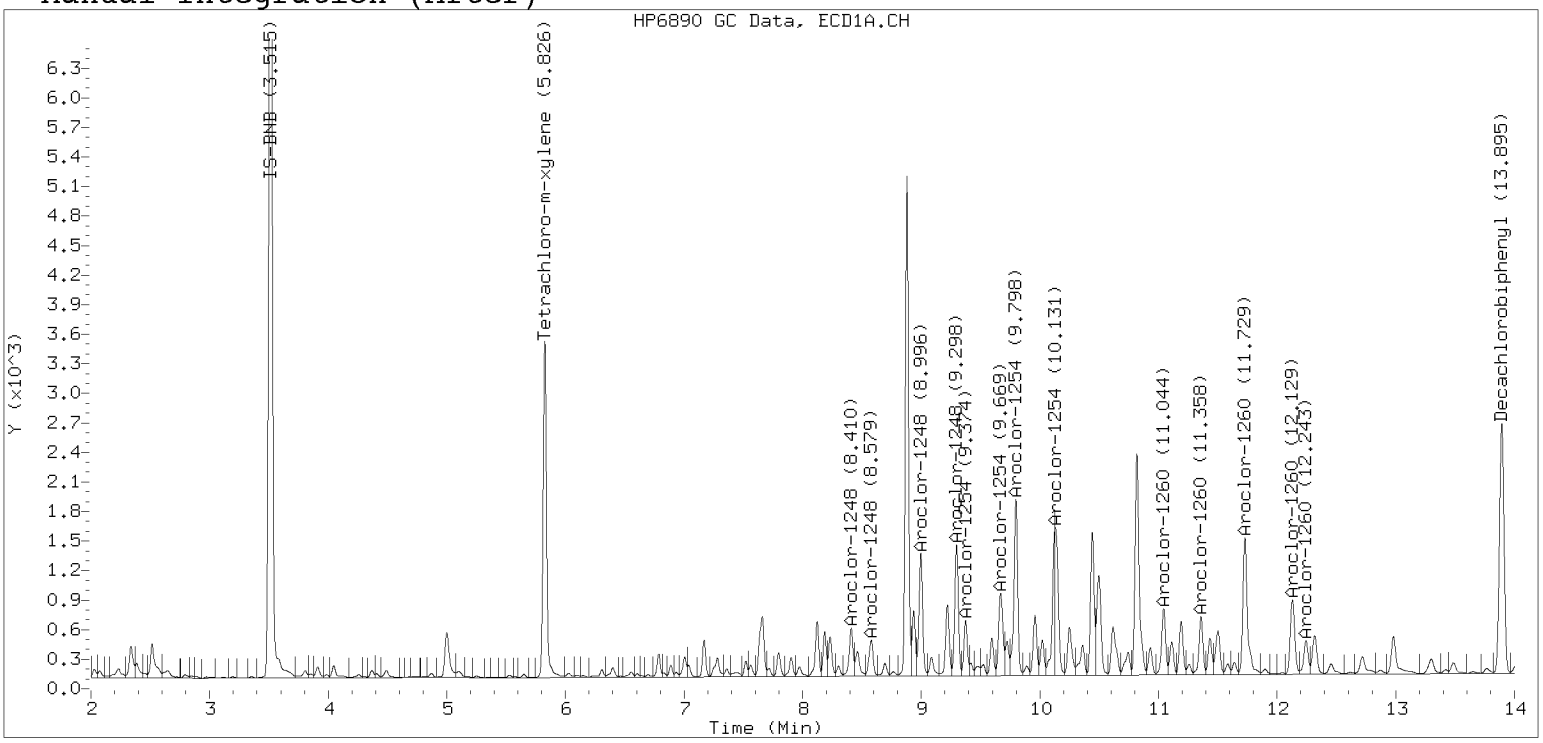


ZB-35 Manual Integration: YES

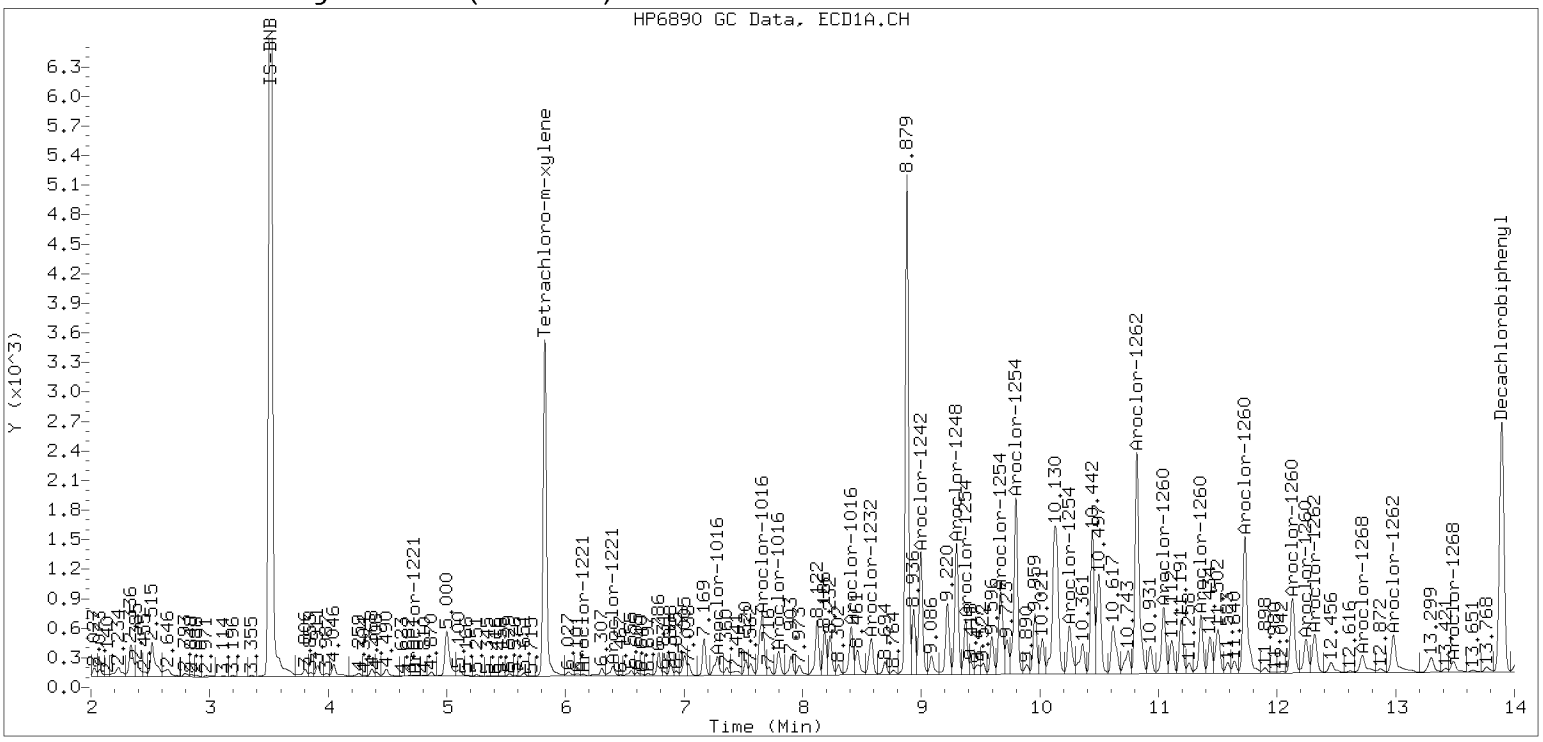
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230111.b/01112313ECD7.D Injection Date: 11-JAN-2023 13:08

Manual Integration (After)



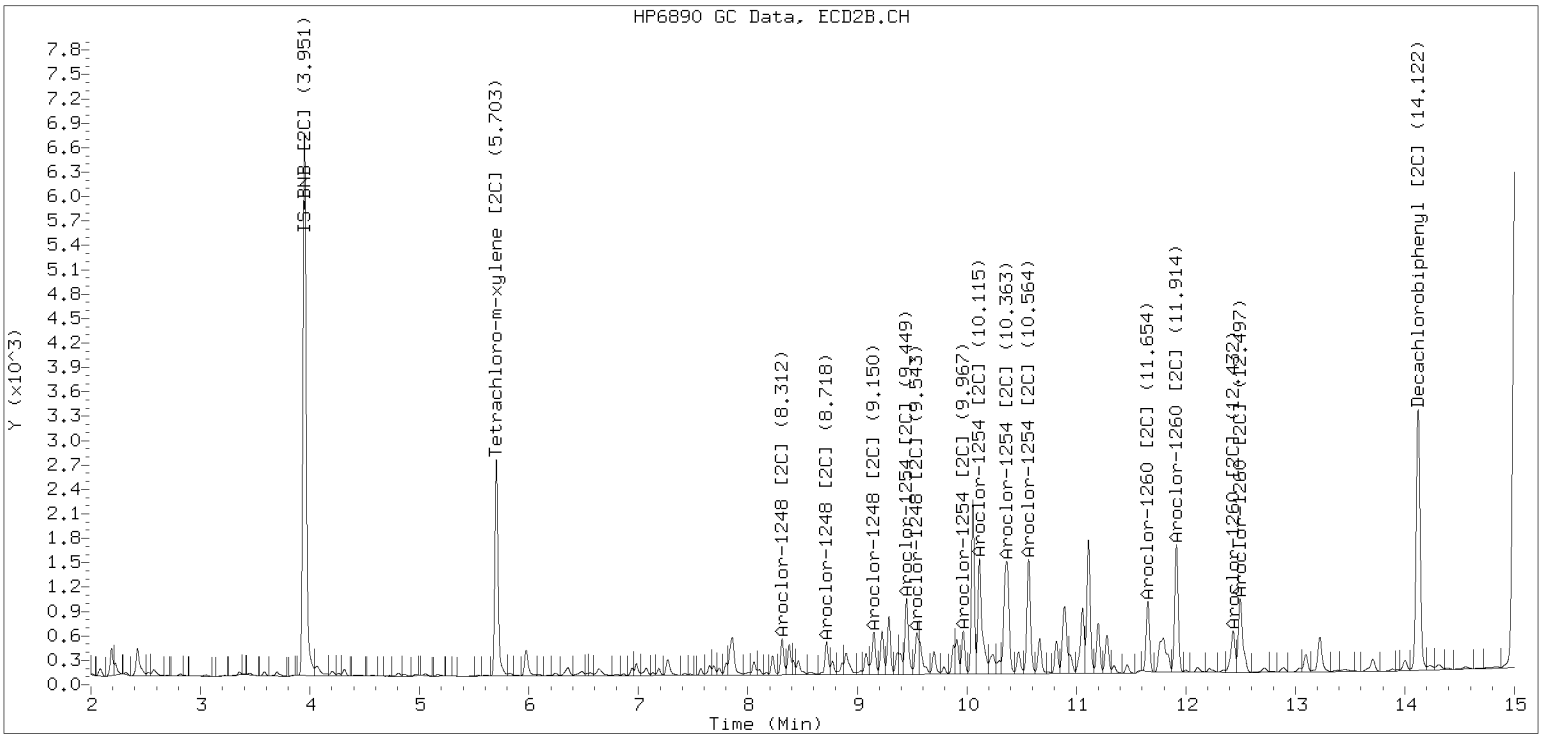
Processed Integration (Before)



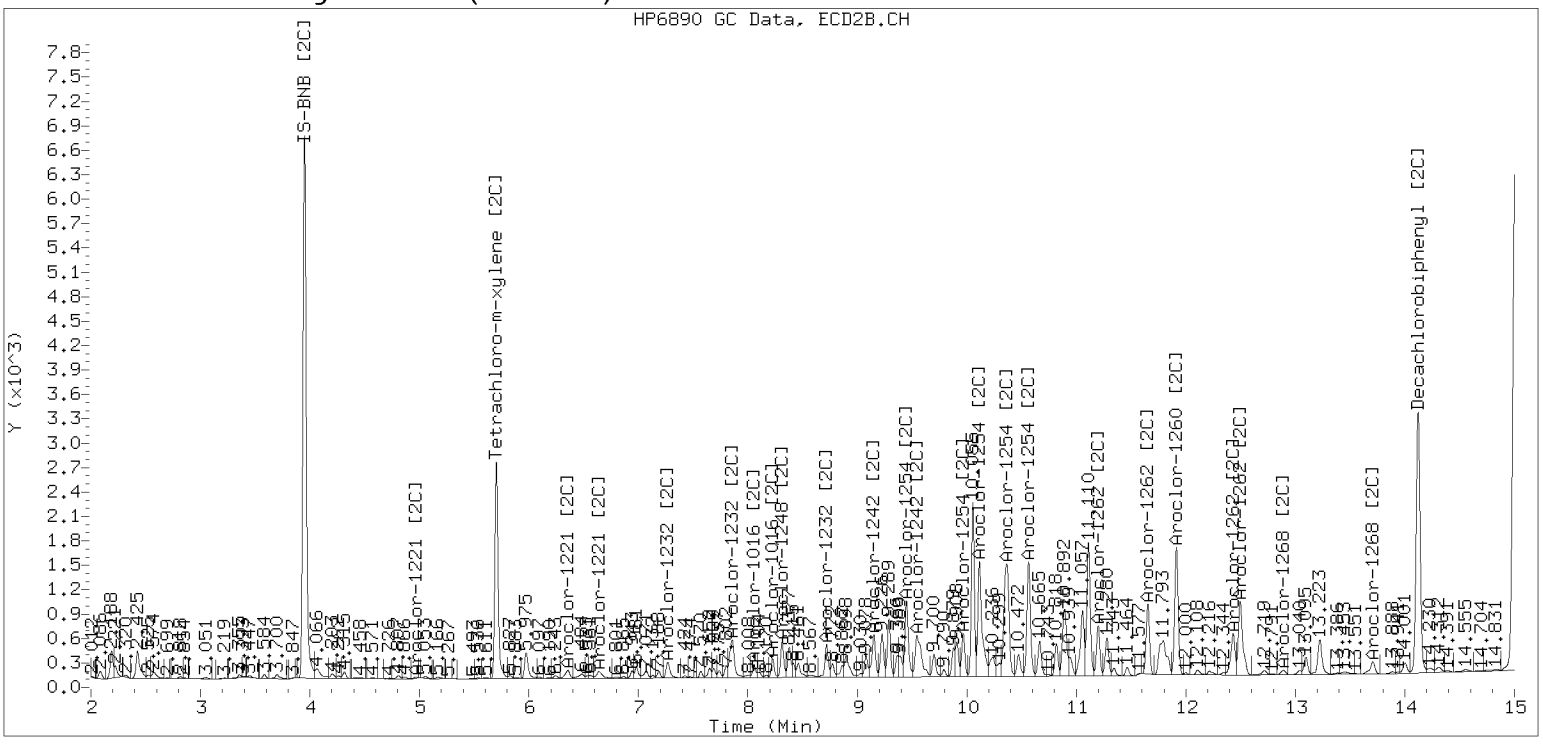
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230111.b/230111.b/01112313ECD7.D Injection Date: 11-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1002C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-05 A	File ID:	01112314ECD7.D
Sampled:	12/16/22 11:20	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 13:29
% Solids:	54.59	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.92 g Wet / 2.5 mL
Batch:	BLA0069	Sequence:	SLA0136	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	49.8	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	73.5	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	52.0	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9923*	*4.56*	*57.0*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9923*	*2.84*	*35.6*	*44 - 120*	*
Decachlorobiphenyl	*2*	*7.9923*	*4.19*	*52.4*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9923*	*3.19*	*39.9*	*44 - 120*	*

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112314ECD7.D
Data file 2: /230111.b/230111.b/01112314ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0459-05
Client ID:
Injection Date: 11-JAN-2023 13:29
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.006	82596	5.703	-0.004	63683	14.2	15.9	11.3	Tetrachloro-m-xylene
13.893	-0.011	82461	14.122	-0.007	99752	22.8	21.0	8.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	409451	-8.5
Hexabromobiphenyl	798898	394467	-50.6 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	291377	17.0
Hexabromobiphenyl	362541	335168	-7.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.409	-0.018	36777	208.9	1	8.312	-0.009	28625	240.5
Aroclor-1248	2	8.578	-0.027	30511	135.7	2	8.718	-0.009	28416	227.0
Aroclor-1248	3	8.995	-0.028	86795	214.6	3	9.149	-0.026	40858	268.3
Aroclor-1248	4	9.297	-0.014	86555	436.9	4	9.544	-0.055	32033	179.2
		Total Col1Ave (4 peaks):			249.1		Total Col2Ave (4 peaks):			228.7 RPD = 9
		Corrected Ave (3 peaks):			186.4		Corrected Ave (3 peaks):			215.5 RPD = 14
										245.27
Aroclor-1254	1	9.297	-0.019	86555	240.1	1	9.448	-0.013	61908	329.5
Aroclor-1254	2	9.373	-0.020	36896	263.2	2	9.966	-0.015	31683	209.8
Aroclor-1254	3	9.668	-0.017	63409	278.5	3	10.115	-0.019	112182	345.5
Aroclor-1254	4	9.797	-0.027	120786	272.1	4	10.358	-0.025	133277	396.4
Aroclor-1254	5	10.135	-0.056	68081	223.8	5	10.564	-0.016	90407	557.5
		Total Col1Ave (5 peaks):			255.5		Total Col2Ave (5 peaks):			367.7 RPD = 36
		Corrected Ave (4 peaks):			249.8		Corrected Ave (4 peaks):			320.3 RPD = 25
					263.48					
Aroclor-1260	1	11.043	-0.020	41216	287.0	1	11.652	-0.010	52942	299.2
Aroclor-1260	2	11.358	-0.019	38155	256.9	2	11.913	-0.013	97379	219.3
Aroclor-1260	3	11.728	-0.024	96860	248.2	3	12.433	-0.012	33494	283.3
Aroclor-1260	4	12.128	-0.031	55476	279.2	4	12.495	-0.015	70923	239.7
Aroclor-1260	5	12.243	-0.018	24373	299.6	NS	---			----
		Total Col1Ave (5 peaks):			274.2		Total Col2Ave (4 peaks):			260.4 RPD = 5
		Corrected Ave (4 peaks):			267.8		Corrected Ave (3 peaks):			247.4 RPD = 8
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.804) = 2309251 Col1 Total PCB = 0.6 ppm*

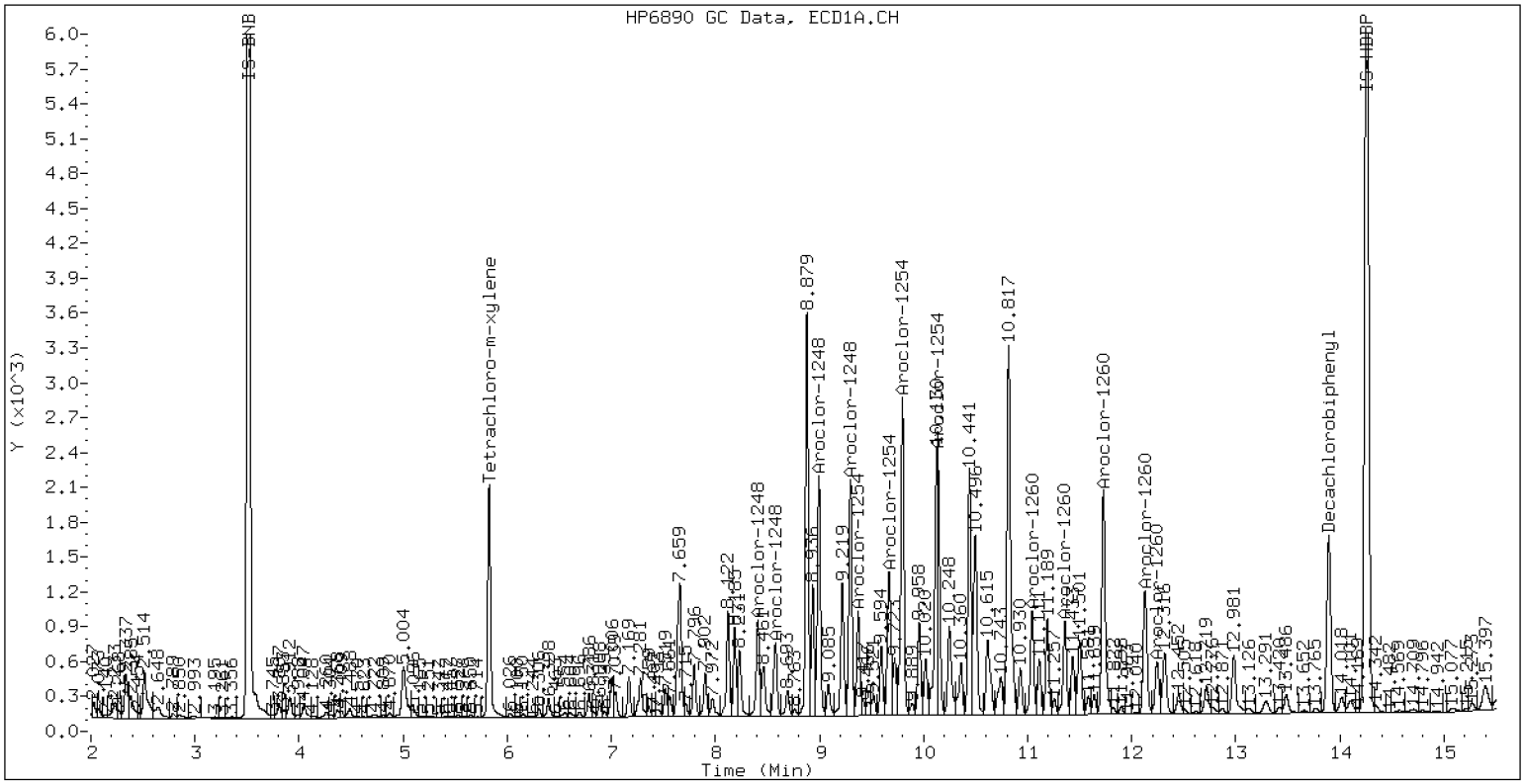
Total PCB Area Col2 (5.807 - 14.028) = 1952517 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

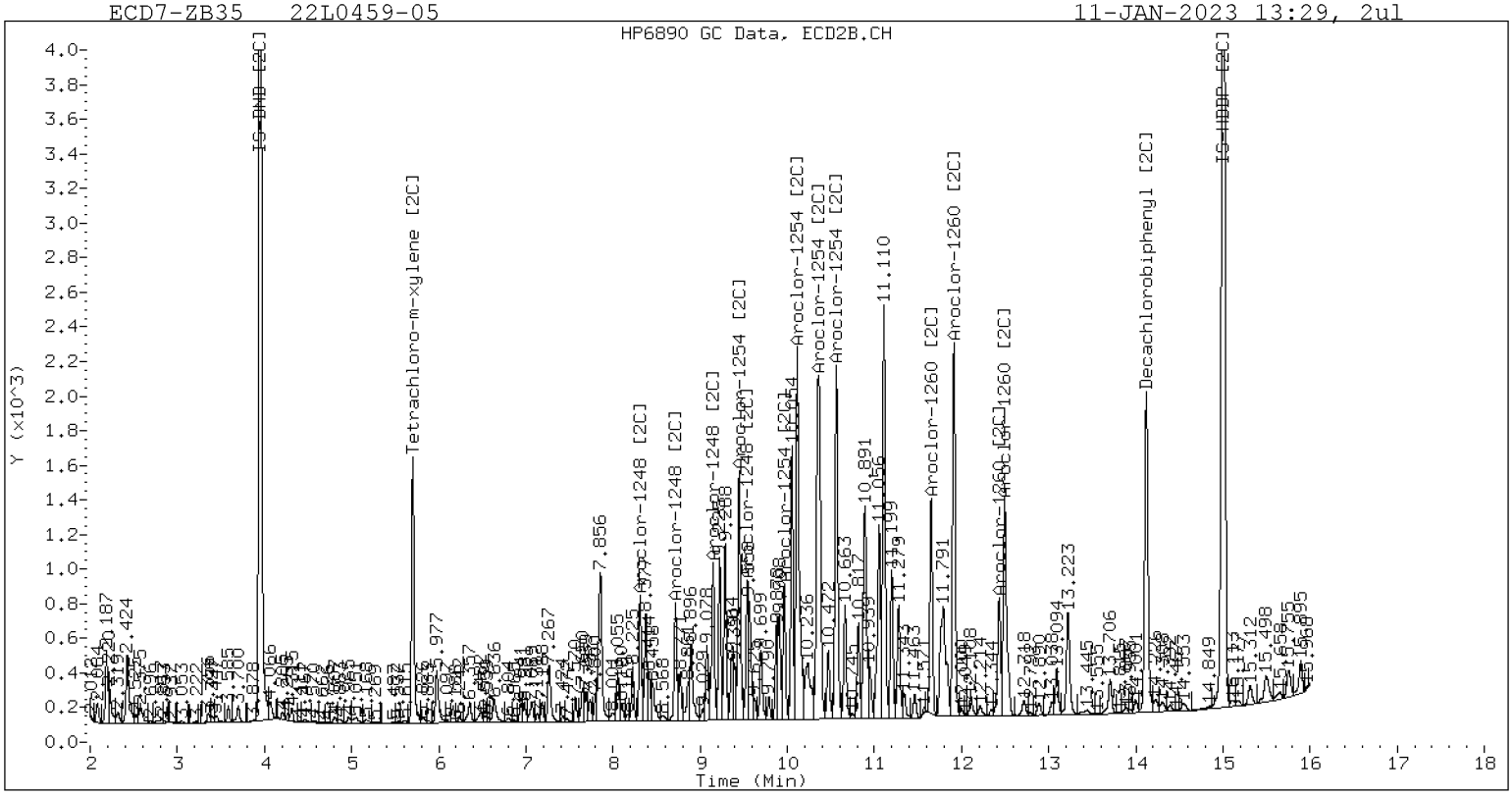
PCB Dual Column Chromatograms

ECD7-ZB5 22L0459-05 11-JAN-2023 13:29, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0459-05 11-JAN-2023 13:29, 2ul

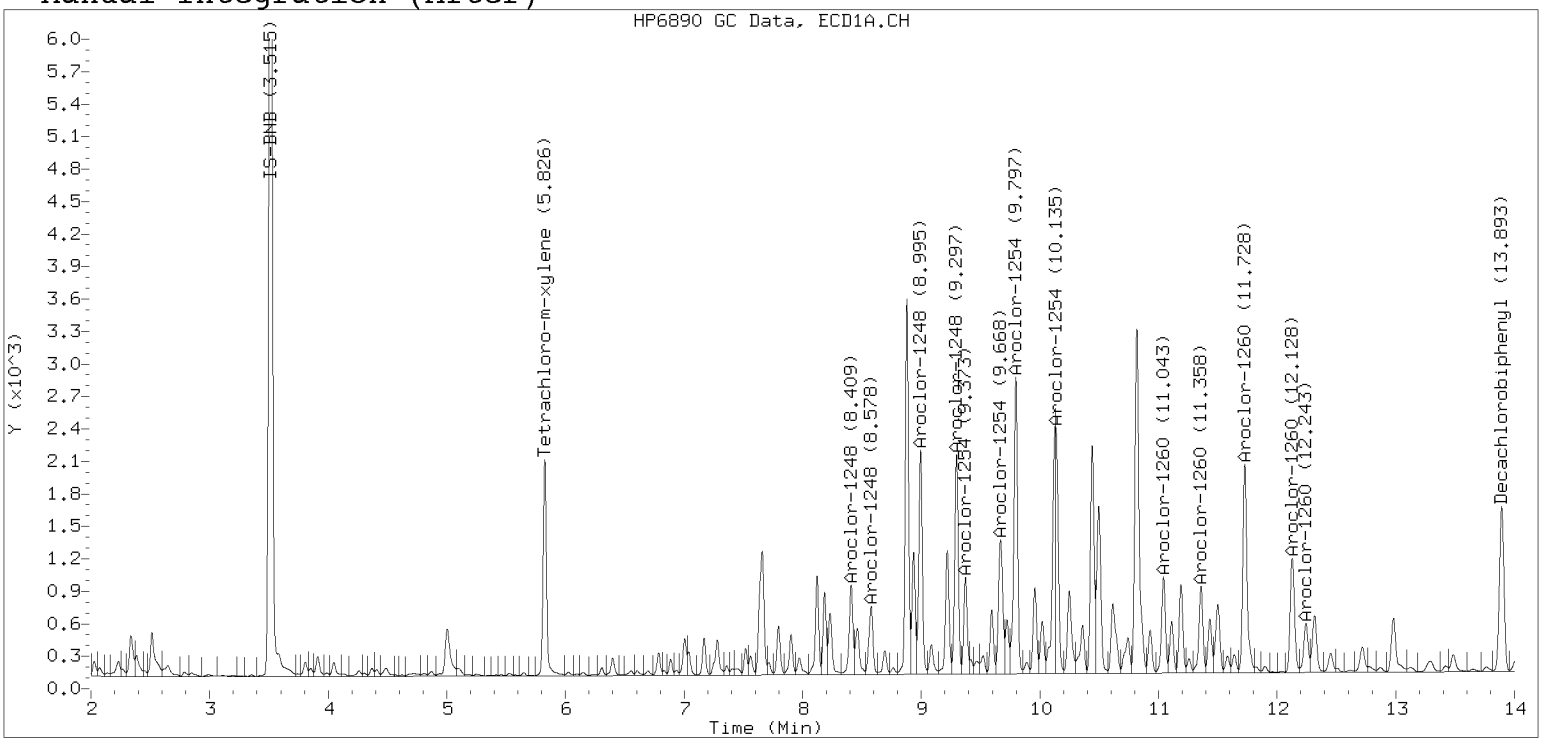


ZB-35 Manual Integration: YES

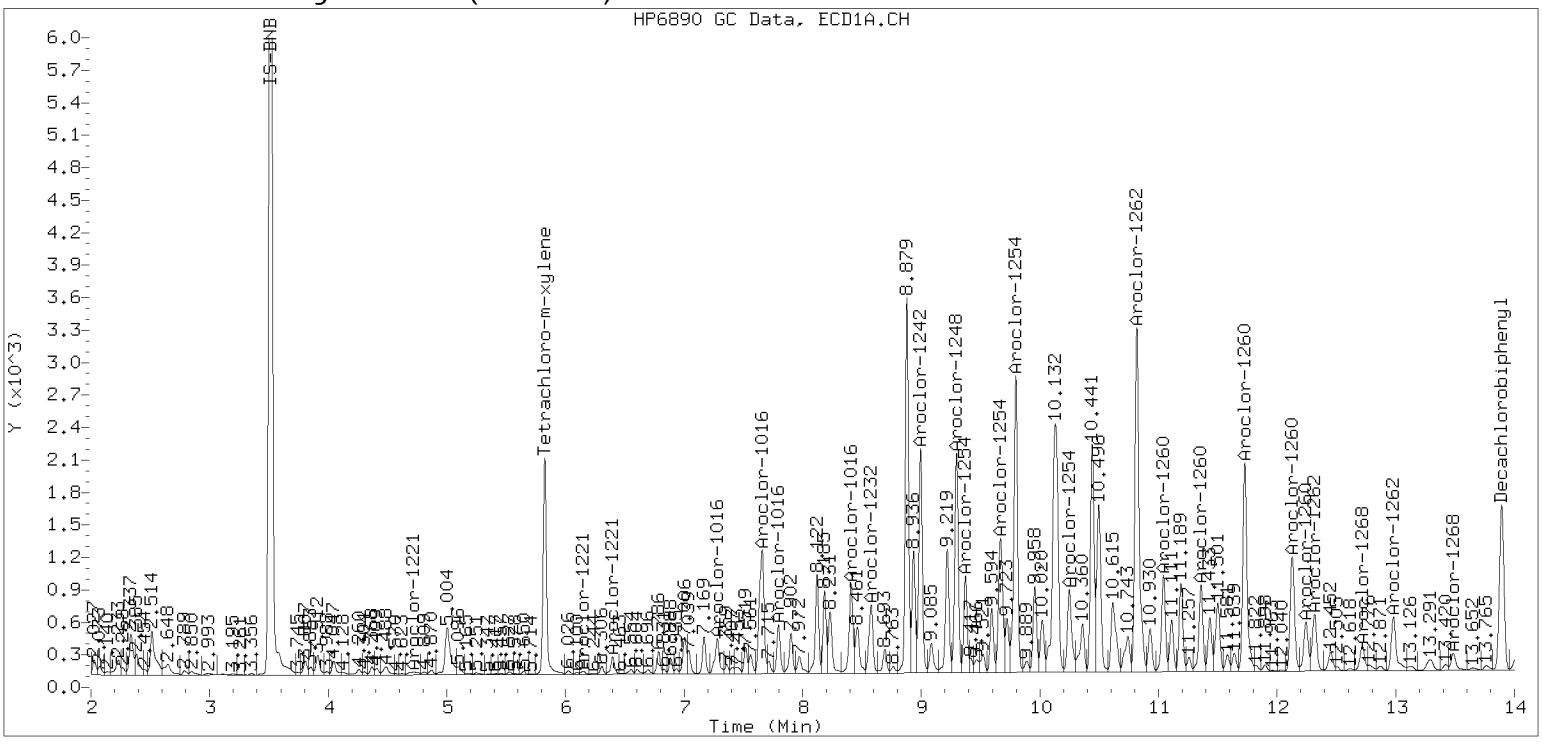
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230111.b/01112314ECD7.D Injection Date: 11-JAN-2023 13:29

Manual Integration (After)



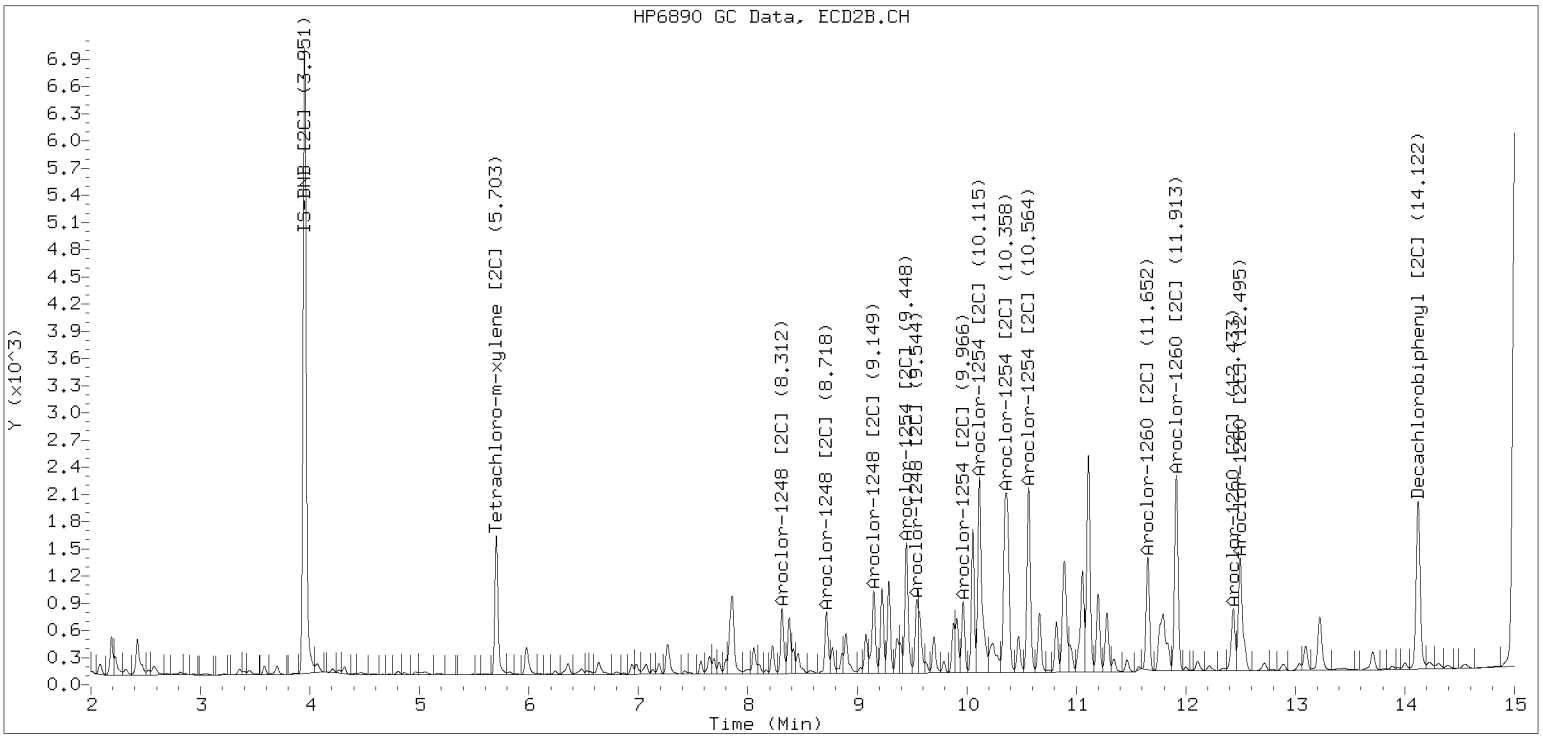
Processed Integration (Before)



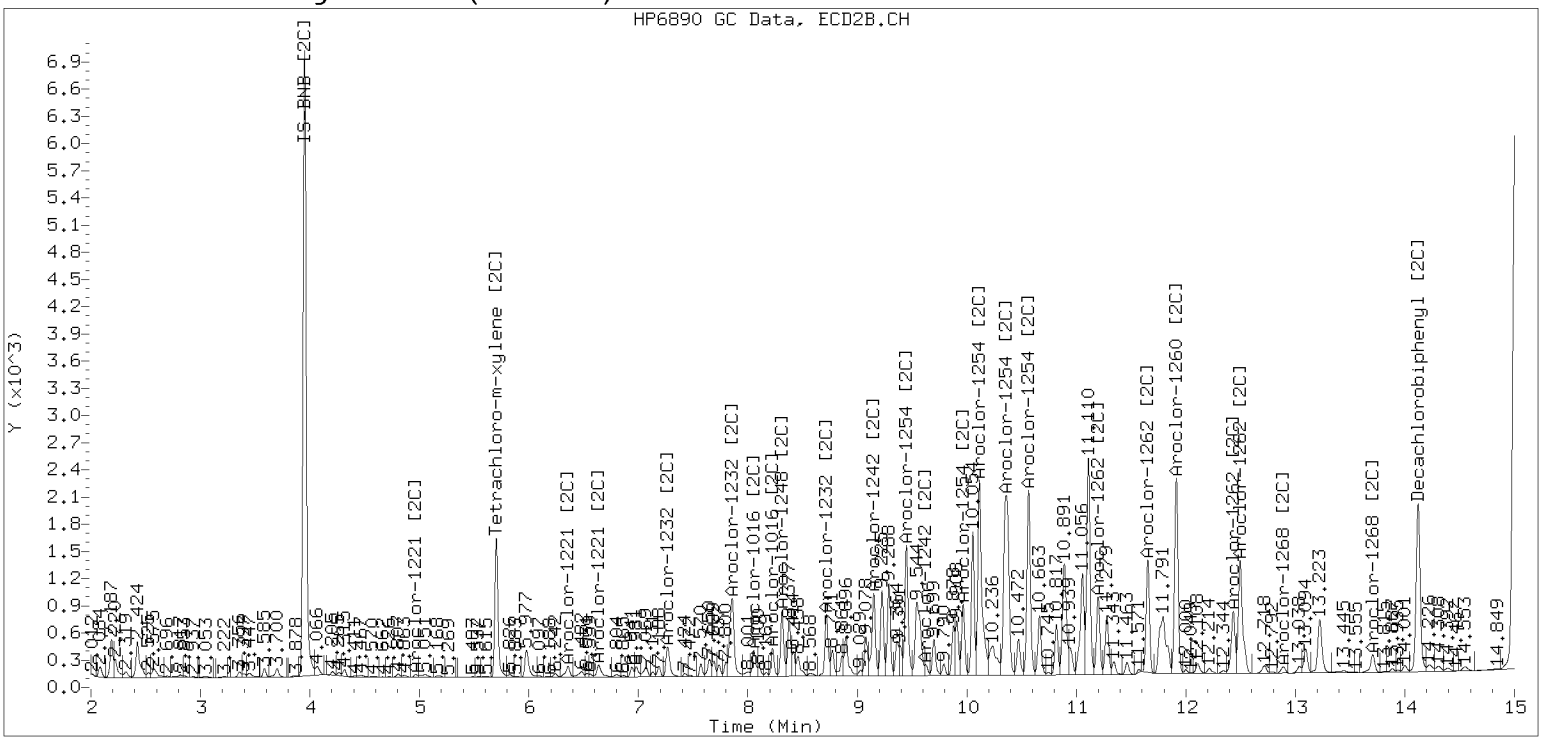
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230111.b/230111.b/01112314ECD7.D Injection Date: 11-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1070B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-06 A	File ID:	01122311ECD7.D
Sampled:	12/16/22 12:01	Prepared:	01/05/23 10:50	Analyzed:	01/12/23 15:11
% Solids:	52.36	Preparation:	EPA 3546 (Microwave)	Initial/Final:	23.92 g Wet / 2.5 mL
Batch:	BLA0069	Sequence:	SLA0139	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	39.9	15.6	39.9	U
11104-28-2	Aroclor 1221	1	10	39.9	15.6	39.9	U
11141-16-5	Aroclor 1232	1	10	39.9	15.6	39.9	U
53469-21-9	Aroclor 1242	1	10	39.9	15.6	39.9	U
12672-29-6	Aroclor 1248	1	10	510	15.6	39.9	D
11097-69-1	Aroclor 1254	1	10	809	15.6	39.9	D
11096-82-5	Aroclor 1260	1	10	263	5.9	39.9	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9843*	*7.64*	*95.7*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9843*	*6.06*	*75.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230112.b/01122311ECD7.D
Data file 2: /230112.b/230112.b/01122311ECD7.D
Method: \\target\share\chem4\ecd7.i\230112.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0459-61
Client ID:
Injection Date: 12-JAN-2023 15:11
Report Date: 01/15/2023 07:21
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.003	16192	5.704	-0.004	11852	3.0	3.1	1.4	Tetrachloro-m-xylene
13.895	-0.007	21781	14.122	-0.005	21219	3.8	3.2	18.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	376440	-15.9
Hexabromobiphenyl	798898	620882	-22.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	281024	12.8
Hexabromobiphenyl	362541	472167	30.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.413	-0.011	47890	295.9	1	8.314	-0.008	52159	454.3
Aroclor-1248	2	8.581	-0.018	36876	178.4	2	8.719	-0.010	39031	323.2
Aroclor-1248	3	9.000	-0.017	108696	292.4	3	9.154	-0.022	34263	233.3
Aroclor-1248	4	9.301	-0.010	109040	598.7	4	9.631	0.029	8887	51.5
		Total Col1Ave (4 peaks):			341.4		Total Col2Ave (4 peaks):			265.6 RPD = 25
		Corrected Ave (3 peaks):			255.6		Corrected Ave (3 peaks):			202.7 RPD = 23
Aroclor-1254	1	9.301	-0.015	109040	329.0	1	9.451	-0.010	65655	362.4
Aroclor-1254	2	9.376	-0.018	54588	423.5	2	9.969	-0.011	25868	177.6
Aroclor-1254	3	9.671	-0.014	54898	262.2	3	10.118	-0.016	134774	430.4
Aroclor-1254	4	9.803	-0.022	161366	395.5	4	10.366	-0.017	137189	423.1
Aroclor-1254	5	10.127	-0.062	172198	615.6	5	10.566	-0.012	77374	494.7
		Total Col1Ave (5 peaks):			405.2		Total Col2Ave (5 peaks):			377.6 RPD = 7
		Corrected Ave (4 peaks):			352.5		Corrected Ave (4 peaks):			348.4 RPD = 1
Aroclor-1260	1	11.046	-0.011	37690	166.8	1	11.655	-0.007	44371	178.0
Aroclor-1260	2	11.361	-0.012	29354	125.6	2	11.916	-0.010	64470	103.1
Aroclor-1260	3	11.732	-0.014	69346	112.9	3	12.435	-0.009	19435	116.7
Aroclor-1260	4	12.132	-0.020	39318	125.7	4	12.498	-0.011	44857	107.6
Aroclor-1260	5	12.246	-0.010	16208	126.6	NS	---			----
		Total Col1Ave (5 peaks):			131.5		Total Col2Ave (4 peaks):			126.4 RPD = 4
		Corrected Ave (4 peaks):			122.7		Corrected Ave (3 peaks):			109.1 RPD = 12
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.931 - 13.802) = 2254539 Col1 Total PCB = 0.6 ppm*

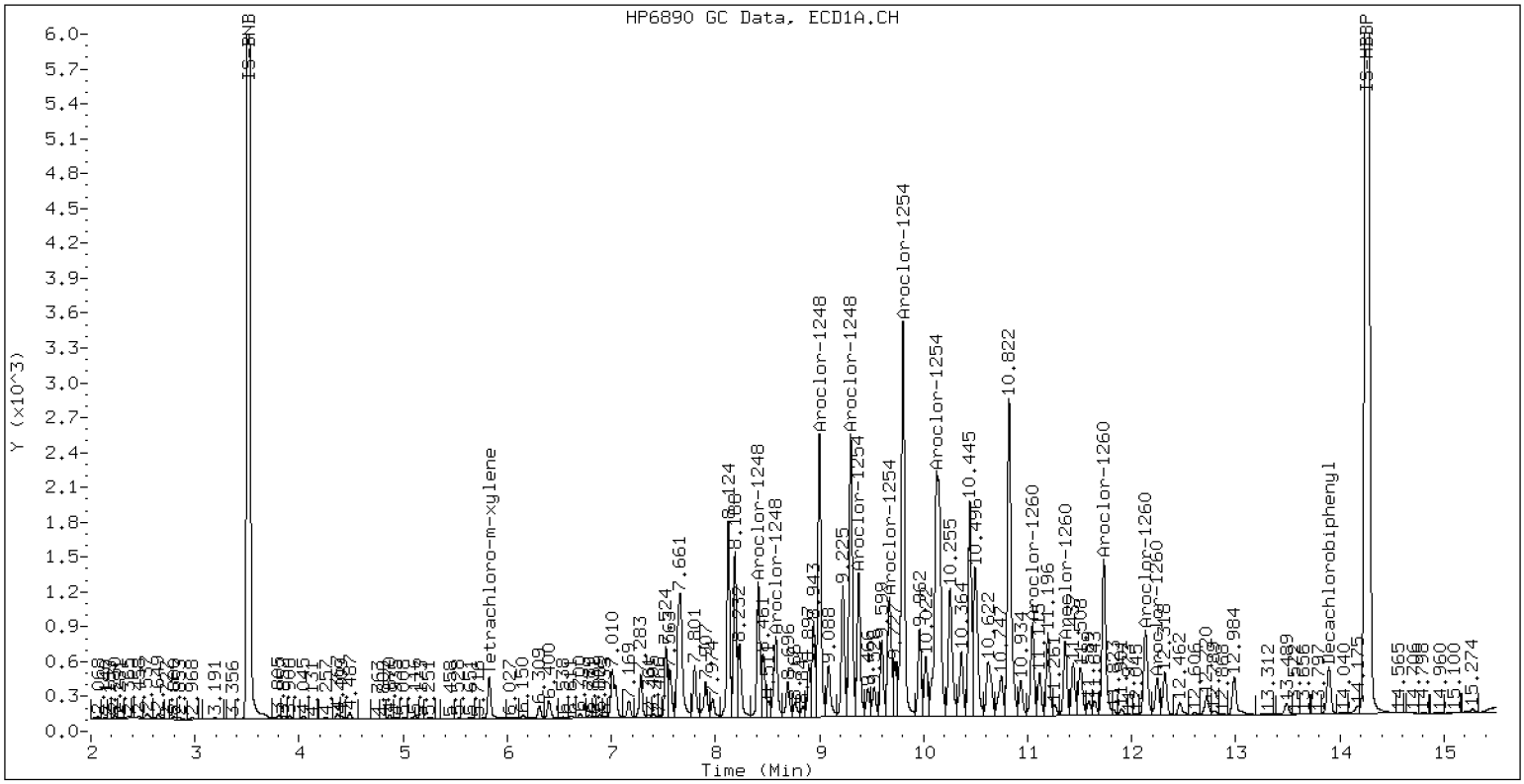
Total PCB Area Col2 (5.808 - 14.027) = 1795689 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

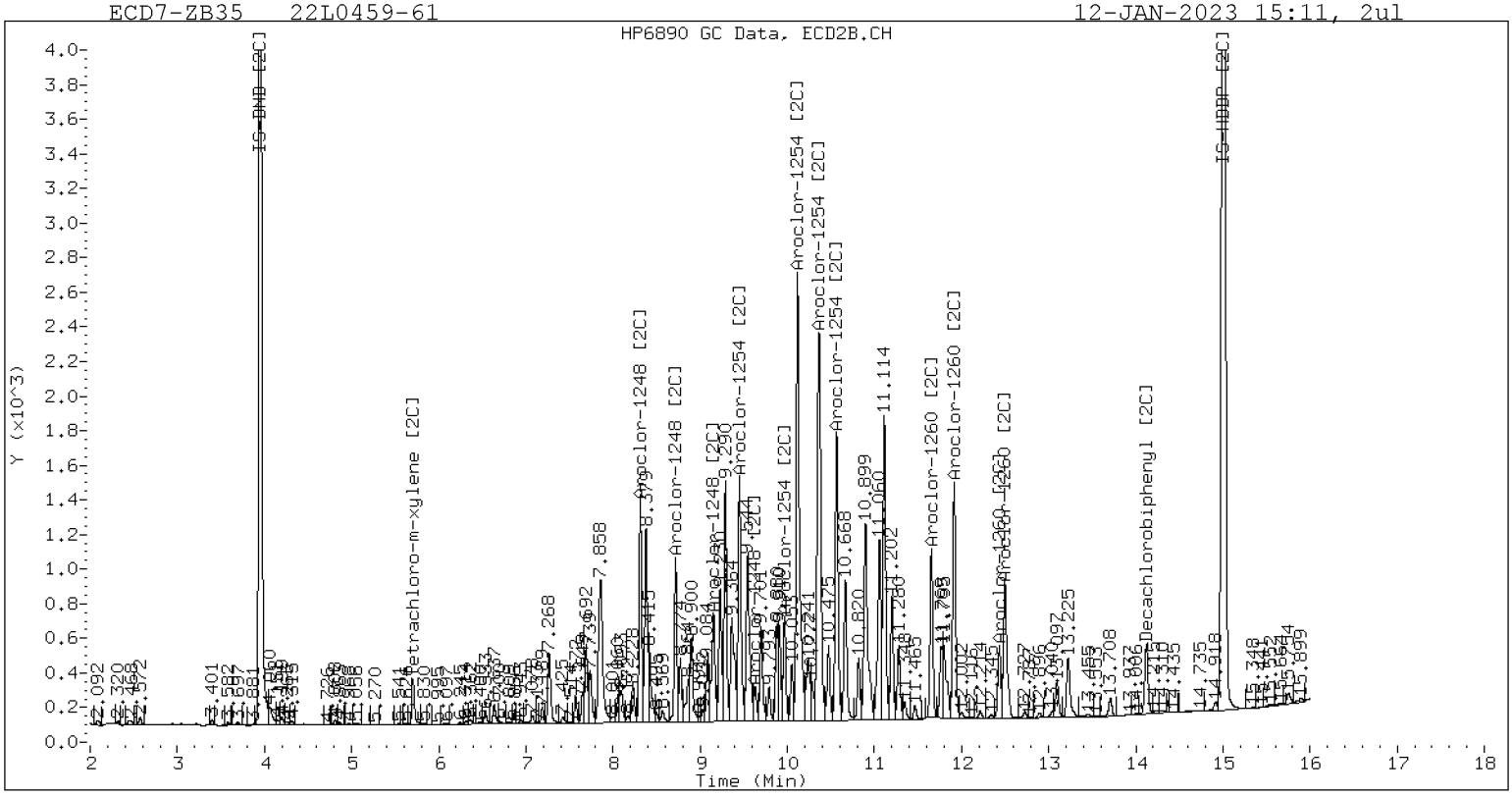
PCB Dual Column Chromatograms

ECD7-ZB5 22L0459-61 12-JAN-2023 15:11, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0459-61 12-JAN-2023 15:11, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1091B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	22L0459-07 A	File ID:	01112316ECD7.D
Sampled:	12/16/22 12:38	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 14:12
% Solids:	61.13	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.5 g Wet / 2.5 mL
Batch:	BLA0069	Sequence:	SLA0136	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	78.0	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	106	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	62.6	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9798*	*7.90*	*99.0*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9798*	*5.42*	*68.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9798*	*7.30*	*91.4*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9798*	*6.03*	*75.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112316ECD7.D
Data file 2: /230111.b/230111.b/01112316ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0459-07
Client ID:
Injection Date: 11-JAN-2023 14:12
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.005	151724	5.702	-0.004	118916	27.2	30.2	10.7	Tetrachloro-m-xylene
13.895	-0.009	150787	14.123	-0.005	181289	39.6	36.6	8.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	393899	-12.0
Hexabromobiphenyl	798898	415431	-48.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	286797	15.1
Hexabromobiphenyl	362541	349182	-3.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.410	-0.017	54056	319.2	1	8.311	-0.009	52830	450.9
Aroclor-1248	2	8.578	-0.026	45471	210.3	2	8.717	-0.010	42503	344.9
Aroclor-1248	3	8.996	-0.026	129953	334.1	3	9.149	-0.025	56525	377.1
Aroclor-1248	4	9.298	-0.013	133333	699.6	4	9.543	-0.056	49081	270.9
		Total Col1Ave (4 peaks):			390.8		Total Col2Ave (4 peaks):			363.0 RPD = 7
		Corrected Ave (3 peaks):			287.8		Corrected Ave (3 peaks):			333.6 RPD = 15
										390.97
Aroclor-1254	1	9.298	-0.018	133333	384.4	1	9.448	-0.013	91274	493.6
Aroclor-1254	2	9.374	-0.019	58233	431.7	2	9.966	-0.014	46730	314.3
Aroclor-1254	3	9.670	-0.015	103125	470.8	3	10.115	-0.019	160552	502.4
Aroclor-1254	4	9.799	-0.026	182160	426.6	4	10.365	-0.018	191557	578.8
Aroclor-1254	5	10.132	-0.059	110625	378.0	5	10.564	-0.016	121420	760.7
		Total Col1Ave (5 peaks):			418.3		Total Col2Ave (5 peaks):			530.0 RPD = 24
		Corrected Ave (4 peaks):			405.2		Corrected Ave (4 peaks):			472.3 RPD = 15
										426.6
Aroclor-1260	1	11.044	-0.018	56938	376.5	1	11.654	-0.009	67369	365.5
Aroclor-1260	2	11.360	-0.017	48167	308.0	2	11.913	-0.013	124690	269.6
Aroclor-1260	3	11.729	-0.022	126290	307.3	3	12.433	-0.012	41776	339.2
Aroclor-1260	4	12.130	-0.029	70043	334.7	4	12.497	-0.014	86323	280.0
Aroclor-1260	5	12.244	-0.018	28234	329.6	NS	---			----
		Total Col1Ave (5 peaks):			331.2		Total Col2Ave (4 peaks):			313.6 RPD = 5
		Corrected Ave (4 peaks):			319.9		Corrected Ave (3 peaks):			296.3 RPD = 8
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.932 - 13.804) = 3094613 Col1 Total PCB = 0.8 ppm*

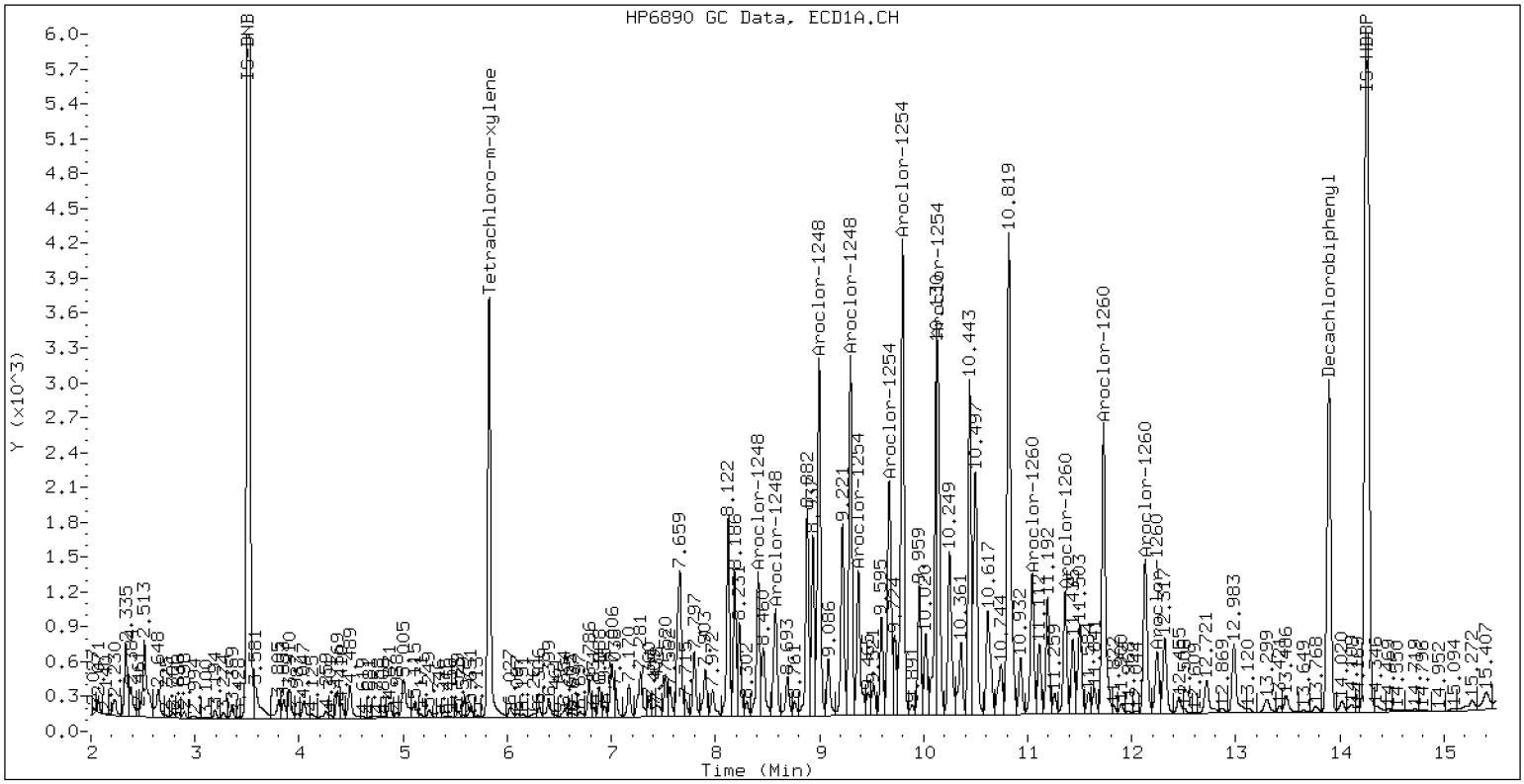
Total PCB Area Col2 (5.807 - 14.028) = 2635177 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

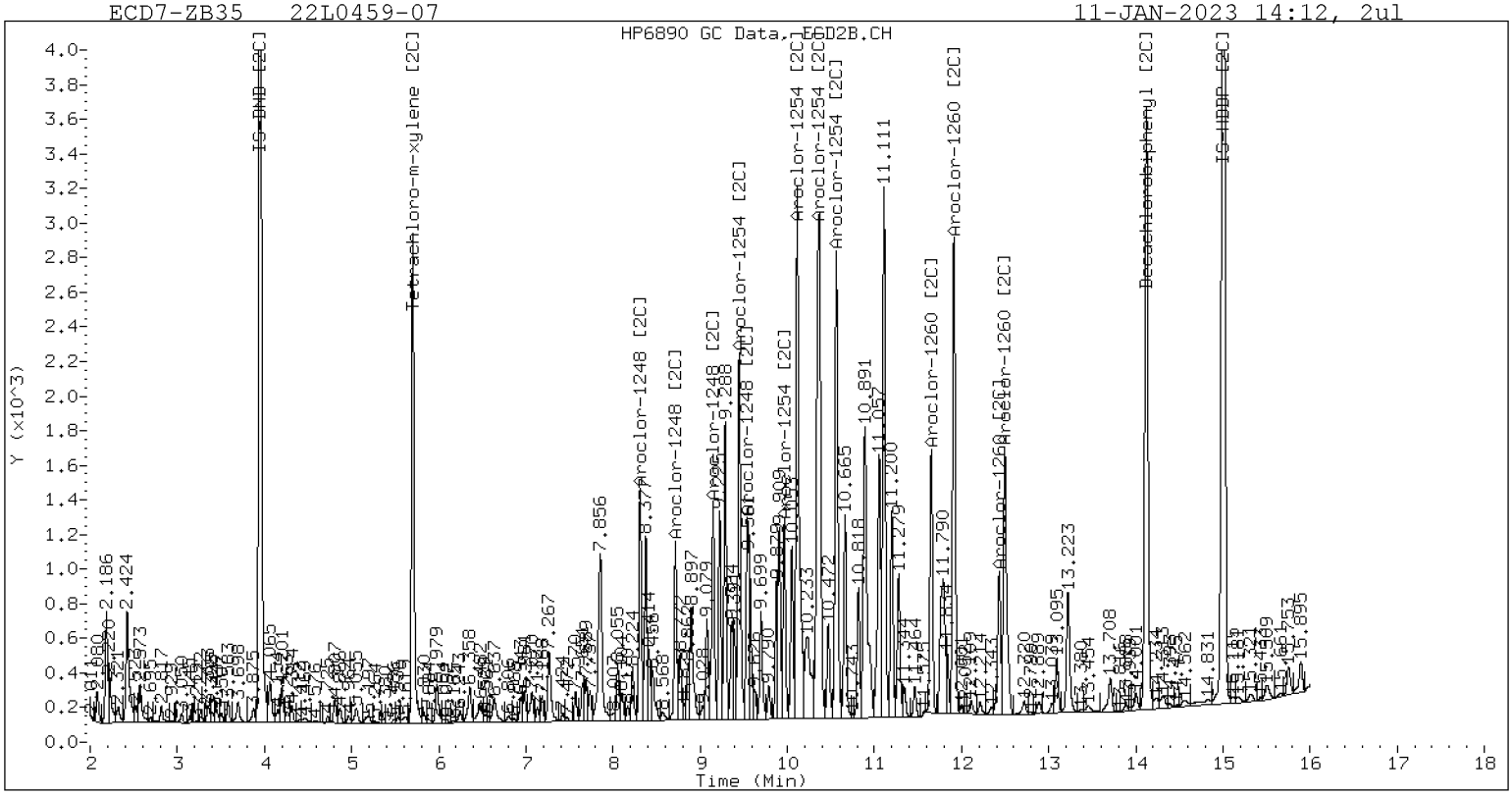
PCB Dual Column Chromatograms

ECD7-ZB5 22L0459-07 11-JAN-2023 14:12, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0459-07 11-JAN-2023 14:12, 2ul

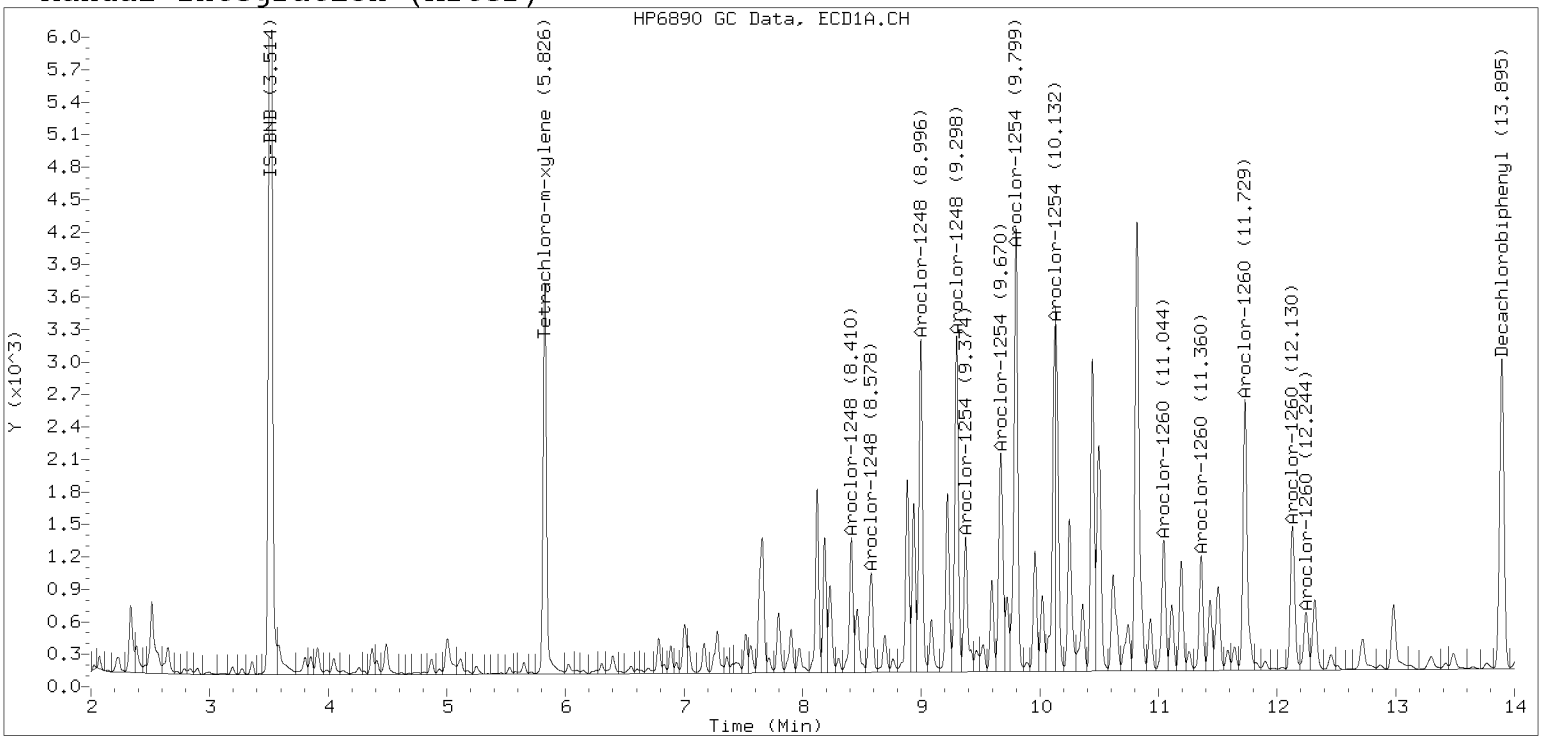


ZB-35 Manual Integration: YES

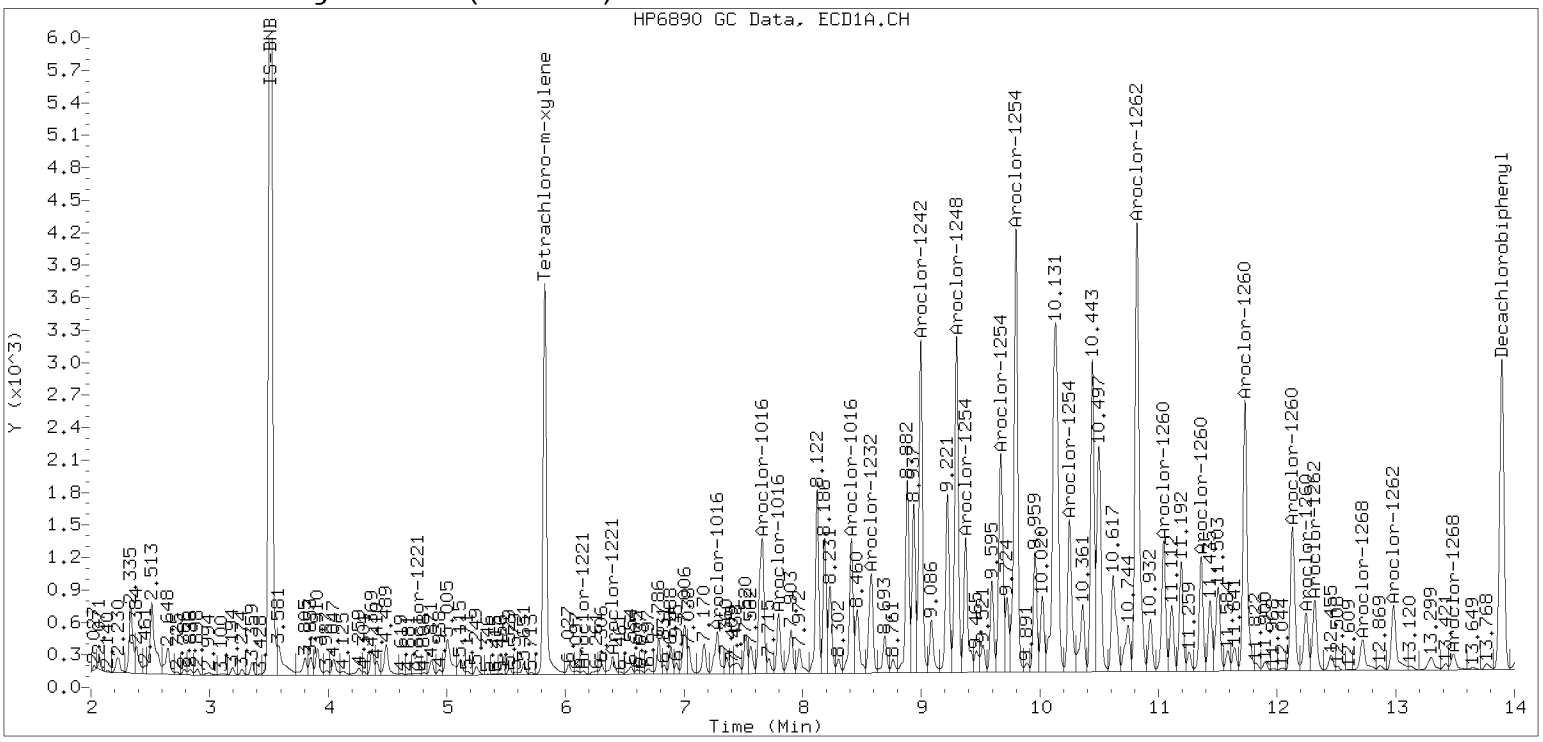
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230111.b/01112316ECD7.D Injection Date: 11-JAN-2023 14:12

Manual Integration (After)



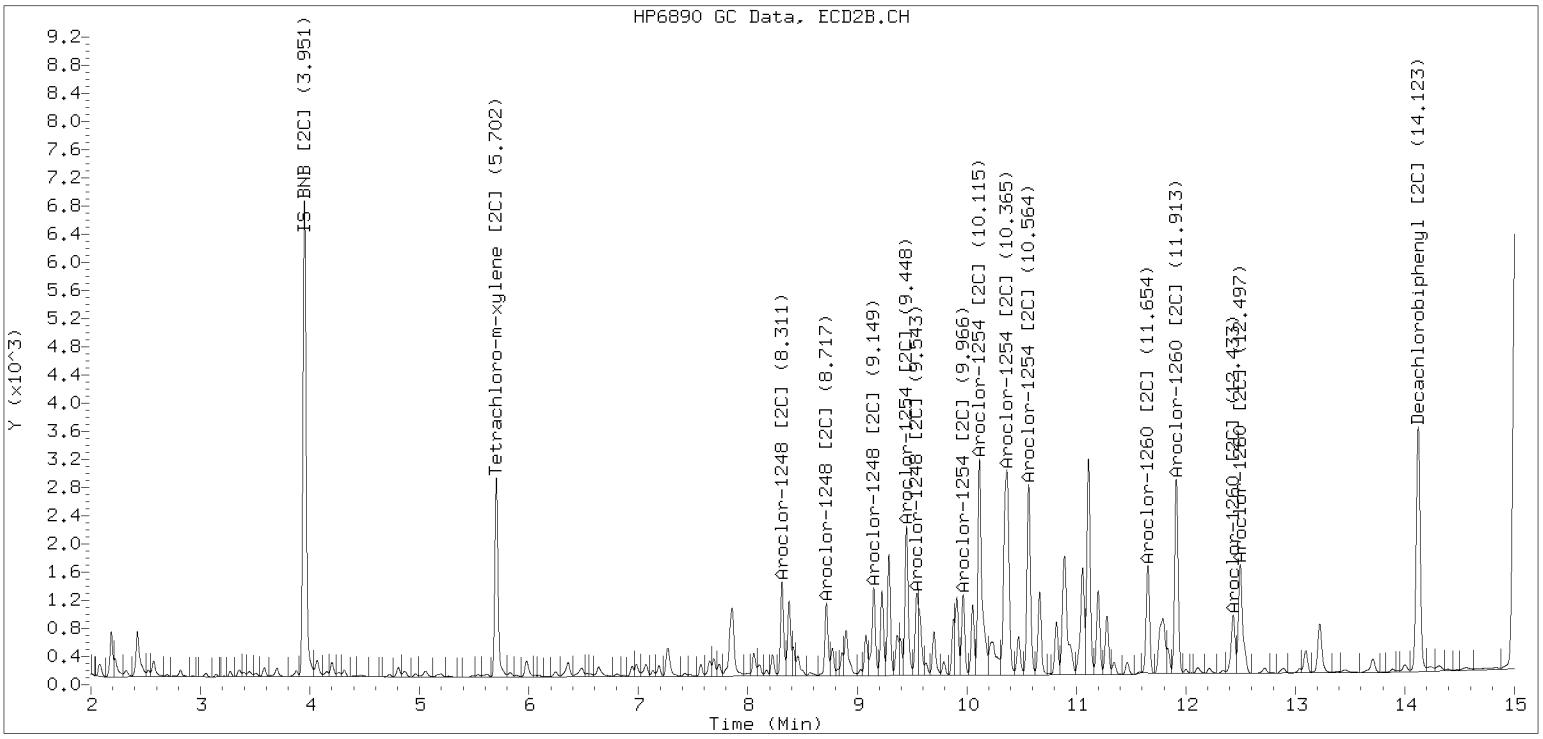
Processed Integration (Before)



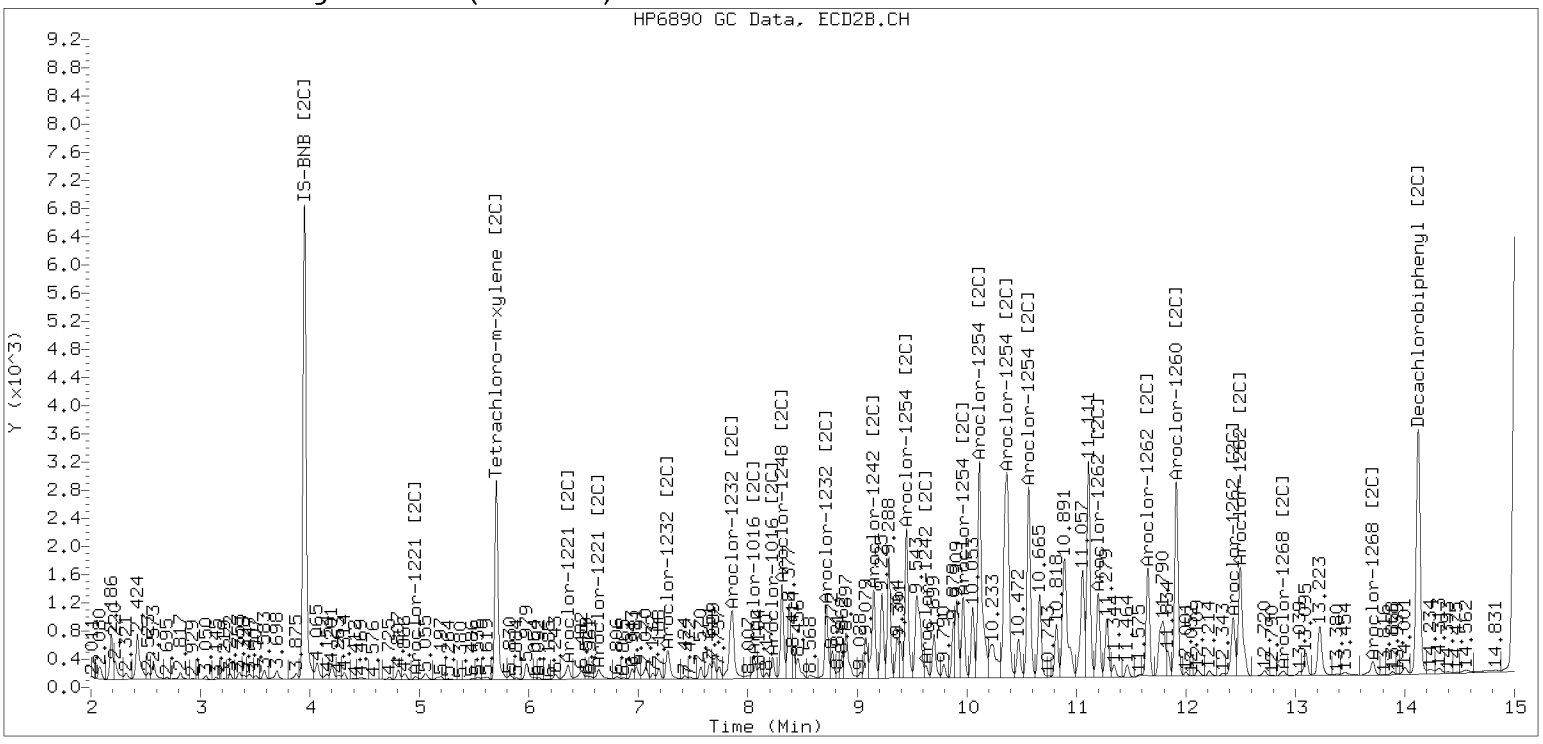
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230111.b/230111.b/01112316ECD7.D Injection Date: 11-JAN-2023

Manual Integration (After)



Processed Integration (Before)



PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Batch: BLA0069 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1123B	22L0459-01	01112308ECD7.D	01/05/23 10:50	
LDW23-SC1053C	22L0459-02	01112309ECD7.D	01/05/23 10:50	
LDW23-SC1039C	22L0459-03	01112310ECD7.D	01/05/23 10:50	
LDW23-SC1007B	22L0459-04	01112313ECD7.D	01/05/23 10:50	
LDW23-SC1002C	22L0459-05	01112314ECD7.D	01/05/23 10:50	
LDW23-SC1070B	22L0459-06	01122311ECD7.D	01/05/23 10:50	
LDW23-SC1091B	22L0459-07	01112316ECD7.D	01/05/23 10:50	
Blank	BLA0069-BLK1	01112304ECD7.D	01/04/23 10:50	
LCS	BLA0069-BS1	01112305ECD7.D	01/04/23 10:50	
LCS Dup	BLA0069-BSD1	01112306ECD7.D	01/04/23 10:50	
LDW23-SC1039C	BLA0069-MS1	01112311ECD7.D	01/04/23 10:50	
LDW23-SC1039C	BLA0069-MSD1	01112312ECD7.D	01/04/23 10:50	
Reference	BLA0069-SRM1	01112307ECD7.D	01/04/23 10:50	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0069

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid Date Prepared: 1/5/2023 Balance ID: B13929800002 Set Up By: 01/04/23

WO Comments

22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0459-01 A	56.6	(22.07) 22.07	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0459-02 A	57.9	(21.60) 21.65	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0459-03 A	55.0	(22.72) 22.72	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0459-04 A	56.4	(22.18) 22.19	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0459-05 A	54.6	(22.90) 22.92	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0459-06 A	52.4	(23.87) 23.92	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0459-07 A	61.1	(20.45) 20.50	5mL	5mL	2mL	2.5 ____	1.0 ____	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLA0069-BLK1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5 ____	1.0 ____	(10g Actual Wt.)
BLA0069-BS1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5 ____	1.0 ____	(10g Actual Wt.)
BLA0069-BSD1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5 ____	1.0 ____	(10g Actual Wt.)
BLA0069-MS1		() 22.72 22.72	5mL	5mL	2mL	2.5 ____	1.0 ____	Use 22L0459-03
BLA0069-MSD1		() 22.72 22.72	5mL	5mL	2mL	2.5 ____	1.0 ____	Use 22L0459-03
BLA0069-SRM1	100.0	~~(12.50)~~ 2.5 2.5	5mL	5mL	2mL	2.5 ____	1.0 ____	Use K011477 K11478

12:08

CR 1/5/2023 — Client ID verified By / Date

ZH 1/10/23 — Preparation Reviewed By / Date

1/5/2023 — Extraction Date and Time

1/5/23 ~~1.0~~ 0.50 mL

Printed: 1/4/2023 4:17:25PM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0069

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps

Microwave
1 (2) 3
CT 1/05/23
Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
1 2 3 4 (5) 6
CP 1/9/23
Analyst/Date

TurboVap
Pre Cleanups
1 2 3 (4) 5
ZH 1/10/23
Analyst/Date

TurboVap
Post Cleanups
1 2 (3) 4 5
ZH 1/10/23
Analyst/Date

Vialing
ZH 1/10/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CT/N Date: 01/05/23	
Neutral Glass Wool	K011684
1:1 Hexane/Acetone	K011642
Hexane	K011373
Anhydrous Sodium Sulfate	K011753
KD Analyst: CP Date: 1/9/23	
Anhydrous Sodium Sulfate	
Hexane	K011373
Vialing Analyst: ZH Date: 1/10/23	
Hexane	K011373
Concentrated Sulfuric Acid	K011885
Silica Gel (SPE) Darts	K011573
Sodium Sulfite	K010363
Tetrabutylammonium hydrogensulfate (TBAS)	K010364

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N K011752 Exp Date: 1/23/2023	50µL	CT	N
Spike 20µg/mL	1 K008150 Exp Date: 3/5/2023	63µL	CT	N

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0069

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0459: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y / N B. Archive/Freeze Y / N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: _____ Extraction Batch _____

Total Solids Batch: BKL0664 Work Order(s): 220459

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 01-07	CR 12/30/22
[X] Standing Water Decanted (Not shared)= 07	CR 12/30/22
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[X] Previously Frozen = 01-07	CR 12/30/22
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
[X] Share Samples Y (N)	CR 12/30/22
[X] Multiple Jars Y (N)	CR 12/30/22
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLA0088	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1070B	22L0459-06	01122311ECD7.D	01/10/2023	
LDW23-SC1039C	22L0459-03	01112310ECD7.D	01/10/2023	
LCS	BLA0069-BS1	01112305ECD7.D	01/10/2023	
LDW23-SC1007B	22L0459-04	01112313ECD7.D	01/10/2023	
LDW23-SC1053C	22L0459-02	01112309ECD7.D	01/10/2023	
Reference	BLA0069-SRM1	01112307ECD7.D	01/10/2023	
Matrix Spike Dup	BLA0069-MSD1	01112312ECD7.D	01/10/2023	
LCS Dup	BLA0069-BSD1	01112306ECD7.D	01/10/2023	
Blank	BLA0069-BLK1	01112304ECD7.D	01/10/2023	
LDW23-SC1091B	22L0459-07	01112316ECD7.D	01/10/2023	
LDW23-SC1123B	22L0459-01	01112308ECD7.D	01/10/2023	
LDW23-SC1002C	22L0459-05	01112314ECD7.D	01/10/2023	
Matrix Spike	BLA0069-MS1	01112311ECD7.D	01/10/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0088

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 1/10/2023 3:44:31PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0459-01	A	LDW23-SC1123B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-02	A	LDW23-SC1053C	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-03	A	LDW23-SC1039C	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-04	A	LDW23-SC1007B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-05	A	LDW23-SC1002C	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-06	A	LDW23-SC1070B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-07	A	LDW23-SC1091B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
BLA0069-BLK1	-	Blank	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-BS1	-	LCS	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-BSD1	-	LCS Dup	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-MS1	-	Matrix Spike	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-SRM1	-	Reference	-	2.5	2.5	-	1/10/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLA0089	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Reference	BLA0069-SRM1	01112307ECD7.D	01/10/2023	
Matrix Spike Dup	BLA0069-MSD1	01112312ECD7.D	01/10/2023	
Matrix Spike	BLA0069-MS1	01112311ECD7.D	01/10/2023	
LCS Dup	BLA0069-BSD1	01112306ECD7.D	01/10/2023	
LCS	BLA0069-BS1	01112305ECD7.D	01/10/2023	
Blank	BLA0069-BLK1	01112304ECD7.D	01/10/2023	
LDW23-SC1070B	22L0459-06	01122311ECD7.D	01/10/2023	
LDW23-SC1039C	22L0459-03	01112310ECD7.D	01/10/2023	
LDW23-SC1002C	22L0459-05	01112314ECD7.D	01/10/2023	
LDW23-SC1053C	22L0459-02	01112309ECD7.D	01/10/2023	
LDW23-SC1123B	22L0459-01	01112308ECD7.D	01/10/2023	
LDW23-SC1091B	22L0459-07	01112316ECD7.D	01/10/2023	
LDW23-SC1007B	22L0459-04	01112313ECD7.D	01/10/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0089

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 1/10/2023 3:45:09PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0459-01	A	LDW23-SC1123B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-02	A	LDW23-SC1053C	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-03	A	LDW23-SC1039C	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-04	A	LDW23-SC1007B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-05	A	LDW23-SC1002C	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-06	A	LDW23-SC1070B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-07	A	LDW23-SC1091B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
BLA0069-BLK1	-	Blank	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-BS1	-	LCS	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-BSD1	-	LCS Dup	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-MS1	-	Matrix Spike	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-SRM1	-	Reference	-	2.5	2.5	-	1/10/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLA0090	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Matrix Spike Dup	BLA0069-MSD1	01112312ECD7.D	01/10/2023	
Blank	BLA0069-BLK1	01112304ECD7.D	01/10/2023	
LCS	BLA0069-BS1	01112305ECD7.D	01/10/2023	
LCS Dup	BLA0069-BSD1	01112306ECD7.D	01/10/2023	
Reference	BLA0069-SRM1	01112307ECD7.D	01/10/2023	
LDW23-SC1007B	22L0459-04	01112313ECD7.D	01/10/2023	
LDW23-SC1070B	22L0459-06	01122311ECD7.D	01/10/2023	
LDW23-SC1039C	22L0459-03	01112310ECD7.D	01/10/2023	
LDW23-SC1123B	22L0459-01	01112308ECD7.D	01/10/2023	
LDW23-SC1091B	22L0459-07	01112316ECD7.D	01/10/2023	
Matrix Spike	BLA0069-MS1	01112311ECD7.D	01/10/2023	
LDW23-SC1053C	22L0459-02	01112309ECD7.D	01/10/2023	
LDW23-SC1002C	22L0459-05	01112314ECD7.D	01/10/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0090

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 1/10/2023 3:45:41PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0459-01	A	LDW23-SC1123B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-02	A	LDW23-SC1053C	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-03	A	LDW23-SC1039C	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-04	A	LDW23-SC1007B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-05	A	LDW23-SC1002C	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-06	A	LDW23-SC1070B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
22L0459-07	A	LDW23-SC1091B	A 03	2.5	2.5	8082A PCB Solid 4	1/10/2023	ZH	
BLA0069-BLK1	-	Blank	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-BS1	-	LCS	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-BSD1	-	LCS Dup	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-MS1	-	Matrix Spike	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/10/2023	ZH	
BLA0069-SRM1	-	Reference	-	2.5	2.5	-	1/10/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLA0069-BLK1	File ID:	01112304ECD7.D
Sampled:	N/A	Prepared:	01/04/23 10:50	Analyzed:	01/11/23 09:59
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BLA0069	Sequence:	SLA0136	Calibration:	FL00010
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	7.35	91.9	40 - 126	
Tetrachlorometaxylene	8.0000	5.74	71.8	44 - 120	
Decachlorobiphenyl [2C]	8.0000	7.20	90.0	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	5.52	69.0	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112304ECD7.D
Data file 2: /230111.b/230111.b/01112304ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0069-BLK1
Client ID:
Injection Date: 11-JAN-2023 09:59
Report Date: 01/12/2023 12:15
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	159217	5.708	0.002	118836	28.7	27.6	3.9	Tetrachloro-m-xylene
13.902	-0.002	293693	14.127	-0.002	301560	36.8	36.0	2.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	391298	-12.6
Hexabromobiphenyl	798898	871759	9.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	313924	26.0
Hexabromobiphenyl	362541	589959	62.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.804) = 59171 Col1 Total PCB = 0.0 ppm*

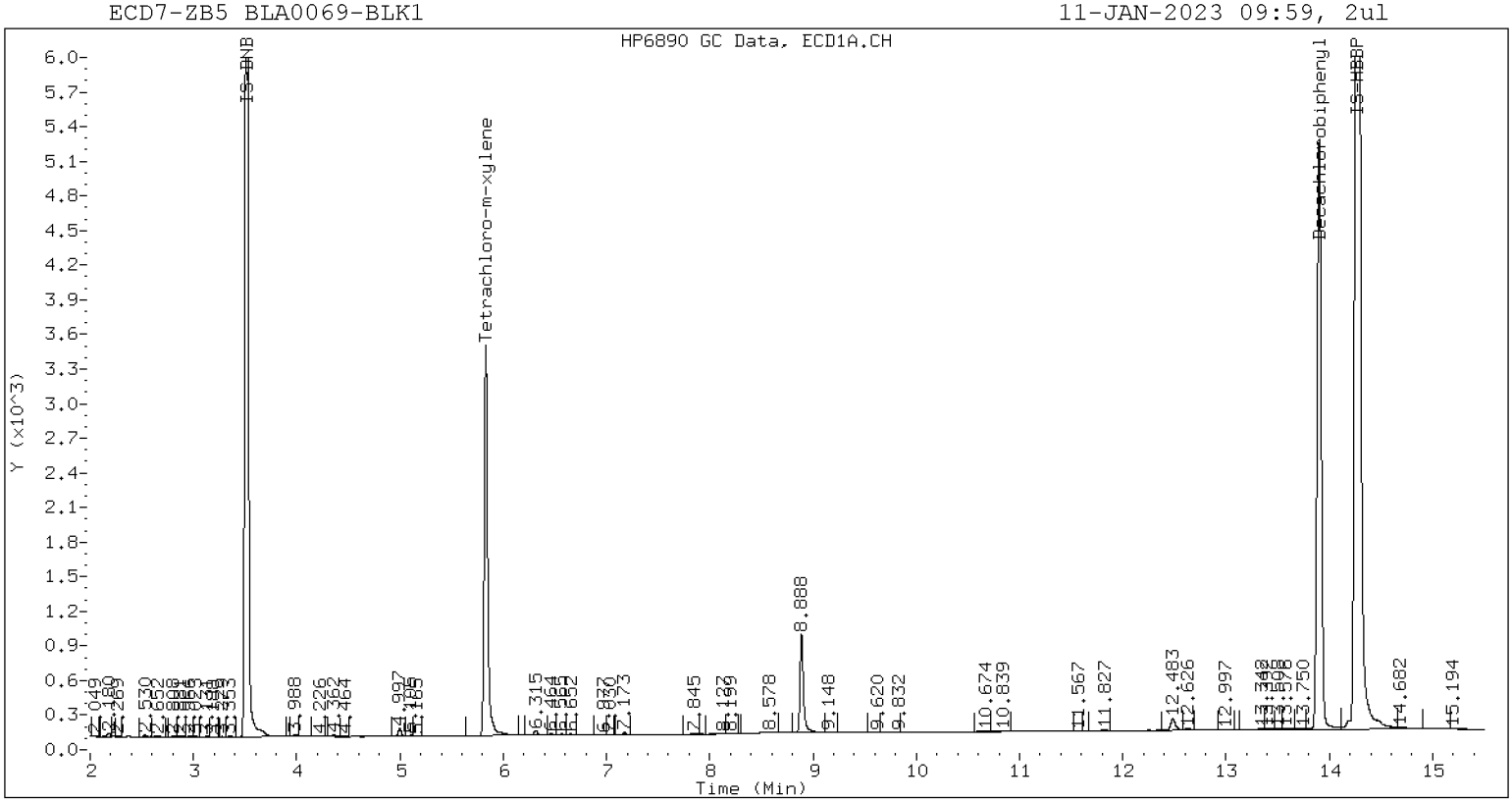
Total PCB Area Col2 (5.807 - 14.028) = 37398 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

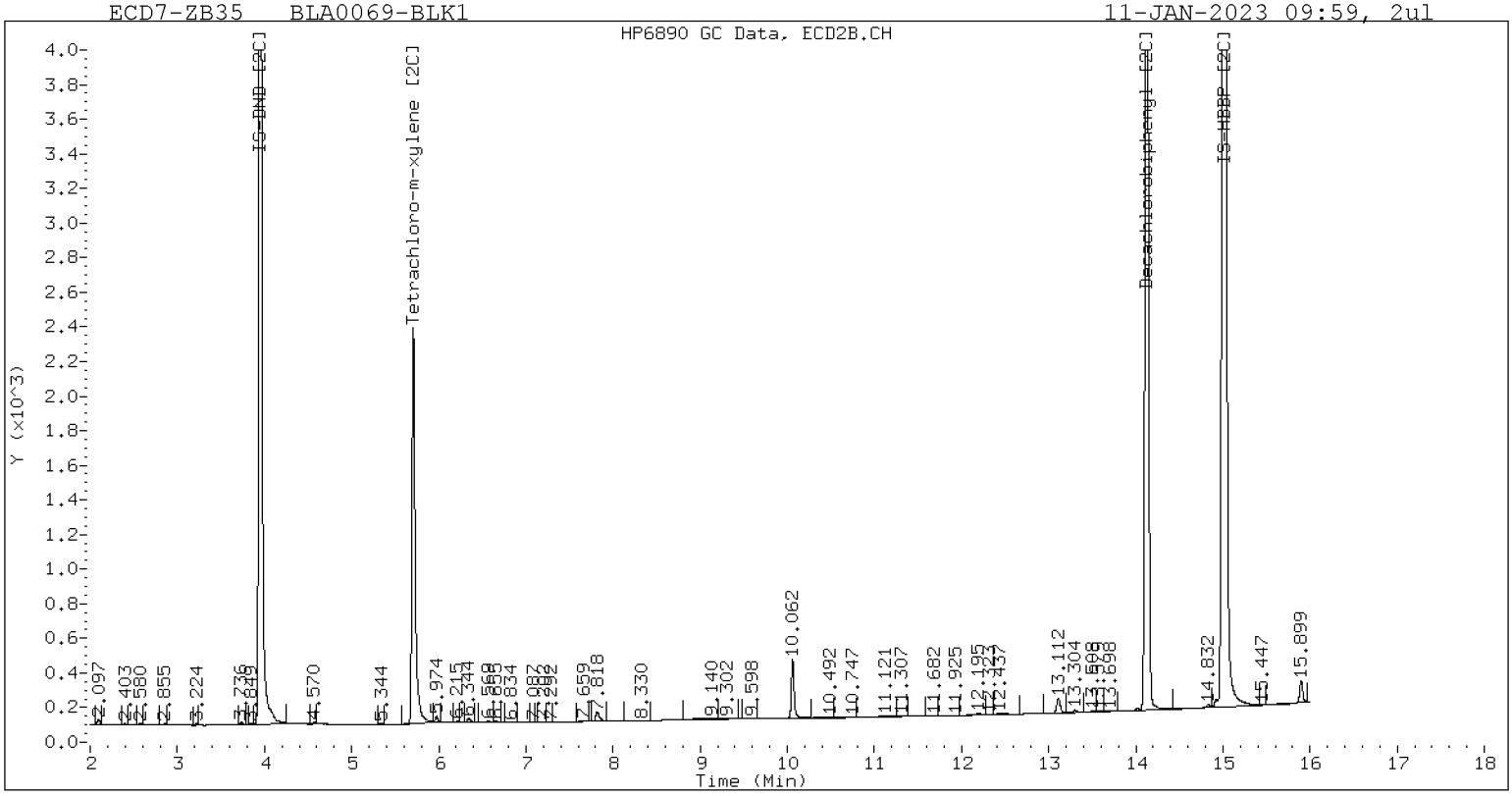
PCB Dual Column Chromatograms

ECD7-ZB5 BLA0069-BLK1 11-JAN-2023 09:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLA0069-BLK1 11-JAN-2023 09:59, 2ul



ZB-35 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/11/23 10:20
Batch:	BLA0069	Laboratory ID:	BLA0069-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	81.4		80.7	56 - 120
Aroclor 1260	101	86.5		85.9	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	89.6		88.9	9.60	30	56 - 120
Aroclor 1260	101	91.3		90.6	5.39	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112305ECD7.D
Data file 2: /230111.b/230111.b/01112305ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0069-BS1
Client ID:
Injection Date: 11-JAN-2023 10:20
Report Date: 01/12/2023 12:15
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.002	183979	5.707	0.000	134903	31.9	30.1	5.8	Tetrachloro-m-xylene
13.902	-0.002	336459	14.127	-0.001	341119	39.8	39.0	2.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	407001	-9.1
Hexabromobiphenyl	798898	921581	15.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	326863	31.2
Hexabromobiphenyl	362541	615929	69.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.286	-0.008	53564	394.5	1	7.270	-0.001	61174	366.0
Aroclor-1016	2	7.670	-0.014	180130	411.0	2	7.865	-0.006	142885	396.4
Aroclor-1016	3	7.806	-0.012	76136	383.3	3	8.064	-0.006	57244	369.8
Aroclor-1016	4	8.419	-0.011	55502	438.3	4	8.234	-0.008	33578	412.5
Total Col1Ave (4 peaks):					406.8	Total Col2Ave (4 peaks):				386.2 RPD = 5
Corrected Ave (3 peaks):					396.3	Corrected Ave (3 peaks):				377.4 RPD = 5
Aroclor-1221	1	4.758	-0.002	267	7.9	1	4.983	-0.004	260	9.4
Aroclor-1221	2	6.151	-0.007	5668	95.6	2	6.317	-0.005	6056	115.2
Aroclor-1221	3	6.402	-0.007	34091	249.3	3	6.639	-0.006	26420	298.6
Total Col1Ave (3 peaks):					117.6	Total Col2Ave (3 peaks):				141.1 RPD = 18
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.758	-0.003	267	13.2	1	4.983	-0.006	260	16.4
Aroclor-1232	2	6.151	-0.008	5668	132.5	2	7.270	-0.007	61174	753.6
Aroclor-1232	3	7.670	-0.013	180130	937.8	3	7.865	-0.011	142885	900.4
Aroclor-1232	4	8.591	-0.014	72748	892.7	4	8.724	-0.010	43840	1018.9
Total Col1Ave (4 peaks):					494.0	Total Col2Ave (4 peaks):				672.3 RPD = 31
Corrected Ave (3 peaks):					346.1	Corrected Ave (3 peaks):				556.8 RPD = 47*
Aroclor-1242	1	7.286	-0.004	53564	464.3	1	7.270	-0.002	61174	442.2
Aroclor-1242	2	7.670	-0.011	180130	491.8	2	7.865	-0.009	142885	486.6
Aroclor-1242	3	8.419	-0.007	55502	526.7	3	9.167	-0.012	6554	69.2
Aroclor-1242	4	9.006	-0.012	72355	330.6	4	9.591	-0.014	2982	26.2
Total Col1Ave (4 peaks):					453.3	Total Col2Ave (4 peaks):				256.0 RPD = 56*
Corrected Ave (3 peaks):					428.9	Corrected Ave (3 peaks):				179.2 RPD = 82*
Aroclor-1248	1	8.419	-0.009	55502	317.2	1	8.318	-0.002	43032	322.3
Aroclor-1248	2	8.591	-0.013	72748	325.6	2	8.724	-0.003	43840	312.2
Aroclor-1248	3	9.006	-0.016	72355	180.0	3	9.167	-0.008	6554	38.4
Aroclor-1248	4	9.312	0.001	61957	314.6	4	9.591	-0.009	2982	14.9
Total Col1Ave (4 peaks):					284.4	Total Col2Ave (4 peaks):				171.9 RPD = 49*
Corrected Ave (3 peaks):					270.6	Corrected Ave (3 peaks):				121.8 RPD = 76*
Aroclor-1254	1	9.312	-0.004	61957	172.9	1	9.458	-0.003	38973	184.9
Aroclor-1254	2	---			0.0	2	9.978	-0.003	8906	52.6
Aroclor-1254	3	9.679	-0.007	11817	52.2	3	10.154	0.021	95242	261.5
Aroclor-1254	4	9.816	-0.009	35393	80.2	4	10.379	-0.005	123991	328.7
Aroclor-1254	5	10.130	-0.061	168139	556.0	5	10.574	-0.006	167075	918.4
Total Col1Ave (4 peaks):					215.3	Total Col2Ave (5 peaks):				349.2 RPD = 47*
Corrected Ave (3 peaks):					101.8	Corrected Ave (4 peaks):				206.9 RPD = 68*
Aroclor-1260	1	11.054	-0.008	142145	423.7	1	11.660	-0.002	132608	407.9
Aroclor-1260	2	11.371	-0.006	149455	430.8	2	11.923	-0.003	324732	398.0
Aroclor-1260	3	11.743	-0.008	388525	426.2	3	12.444	-0.001	91077	419.2
Aroclor-1260	4	12.147	-0.011	206288	444.3	4	12.507	-0.003	230033	423.0
Aroclor-1260	5	12.254	-0.007	83336	438.5	NS	---			----
Total Col1Ave (5 peaks):					432.7	Total Col2Ave (4 peaks):				412.0 RPD = 5
Corrected Ave (4 peaks):					429.8	Corrected Ave (3 peaks):				408.4 RPD = 5
Aroclor-1262	1	10.835	-0.013	281320	912.8	1	11.207	-0.010	120498	257.3
Aroclor-1262	2	12.254	-0.008	83336	173.9	2	11.660	-0.010	132608	326.9
Aroclor-1262	3	12.328	-0.008	100702	196.8	3	12.444	-0.008	91077	203.6
Aroclor-1262	4	12.996	-0.009	94921	231.1	4	12.507	-0.012	230033	328.2
Total Col1Ave (4 peaks):					378.7	Total Col2Ave (4 peaks):				279.0 RPD = 30
Corrected Ave (3 peaks):					200.6	Corrected Ave (3 peaks):				262.6 RPD = 27
Aroclor-1268	1	12.254	-0.008	83336	64.6	1	12.444	-0.006	91077	78.3
Aroclor-1268	2	12.328	-0.007	100702	79.8	2	12.507	-0.010	230033	193.0
Aroclor-1268	3	12.733	0.017	44186	42.7	3	12.900	-0.010	4479	10.1
Aroclor-1268	4	13.496	-0.009	27840	8.8	4	13.716	-0.010	25344	8.0
Total Col1Ave (4 peaks):					49.0	Total Col2Ave (4 peaks):				72.3 RPD = 38

Corrected Ave (3 peaks): 38.7 Corrected Ave (3 peaks): 32.1 RPD = 19

Total PCB Area Col1 (5.932 - 13.804) = 3821036 Col1 Total PCB = 1.0 ppm*

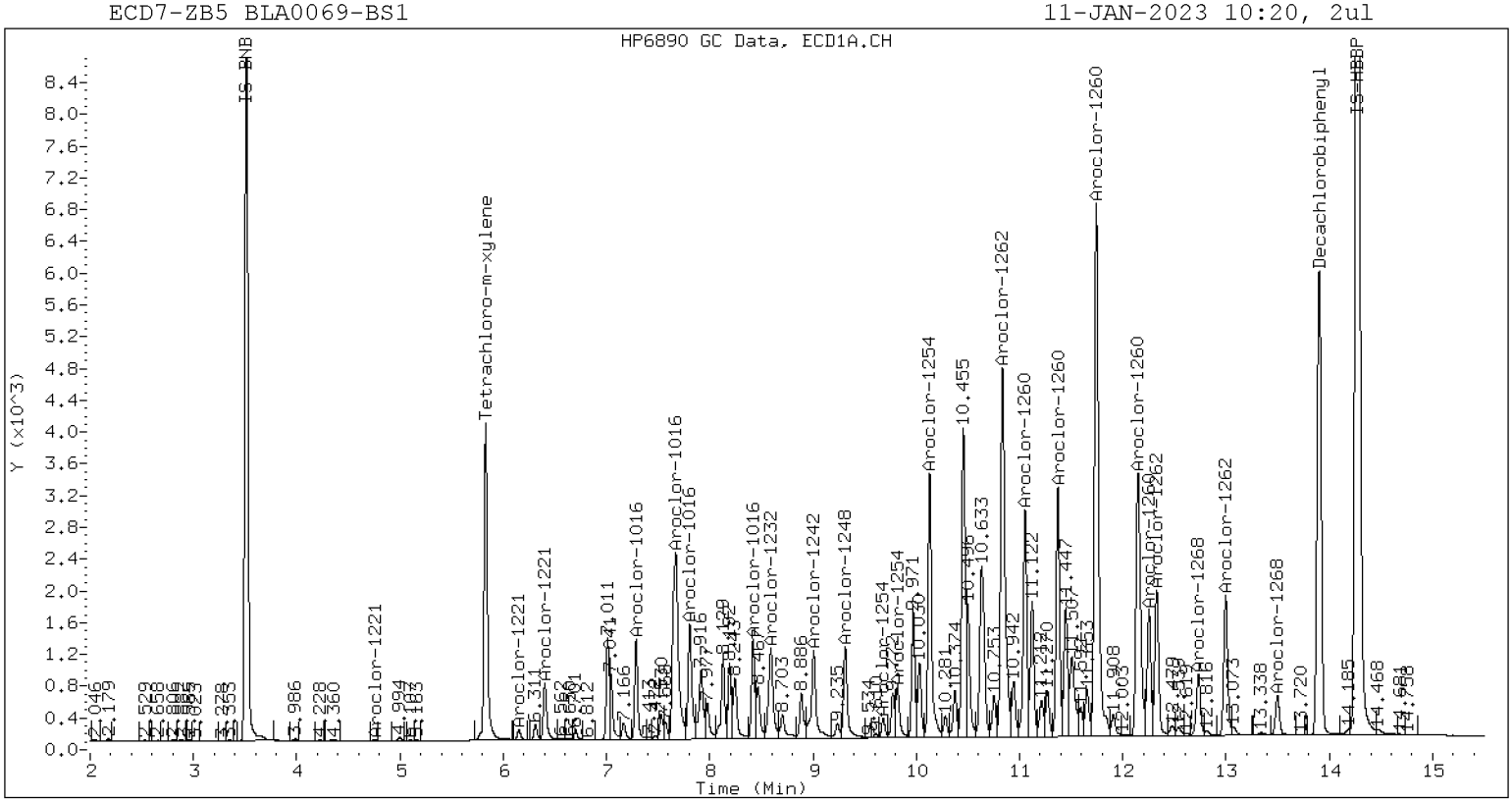
Total PCB Area Col2 (5.807 - 14.028) = 2944072 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

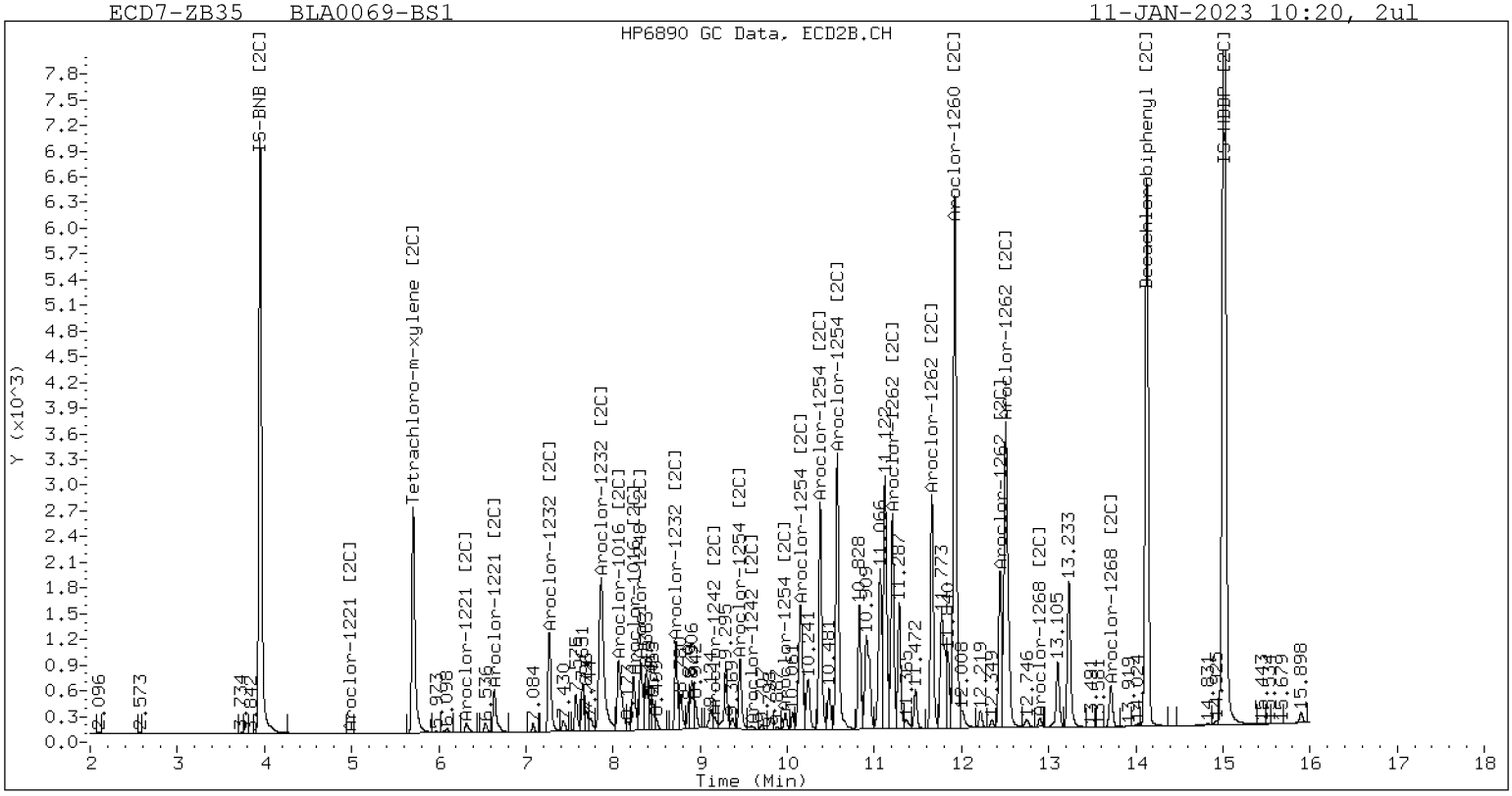
PCB Dual Column Chromatograms

ECD7-ZB5 BLA0069-BS1 11-JAN-2023 10:20, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLA0069-BS1 11-JAN-2023 10:20, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112306ECD7.D
Data file 2: /230111.b/230111.b/01112306ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0069-BSD1
Client ID:
Injection Date: 11-JAN-2023 10:41
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	183240	5.707	0.001	131961	32.2	29.9	7.4	Tetrachloro-m-xylene
13.901	-0.003	330996	14.127	-0.001	332530	38.5	38.2	1.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	401271	-10.4
Hexabromobiphenyl	798898	937110	17.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	321703	29.1
Hexabromobiphenyl	362541	613869	69.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.287	-0.007	58439	436.6	1	7.269	-0.001	65777	399.9
Aroclor-1016	2	7.669	-0.015	194037	449.0	2	7.867	-0.005	156465	441.1
Aroclor-1016	3	7.807	-0.011	82835	423.0	3	8.065	-0.005	63219	415.0
Aroclor-1016	4	8.419	-0.011	60256	482.6	4	8.235	-0.007	37216	464.6
Total Col1Ave (4 peaks):					447.8	Total Col2Ave (4 peaks):				430.1 RPD = 4
Corrected Ave (3 peaks):					436.2	Corrected Ave (3 peaks):				418.6 RPD = 4
Aroclor-1221	1	4.757	-0.003	302	9.1	1	4.968	-0.019	2899	106.8
Aroclor-1221	2	6.152	-0.007	7520	128.7	2	6.317	-0.004	6294	121.6
Aroclor-1221	3	6.403	-0.005	37483	278.0	3	6.639	-0.006	28314	325.2
Total Col1Ave (3 peaks):					138.6	Total Col2Ave (3 peaks):				184.5 RPD = 28
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.757	-0.005	302	15.1	1	4.968	-0.021	2899	185.3
Aroclor-1232	2	6.152	-0.008	7520	178.3	2	7.269	-0.008	65777	823.3
Aroclor-1232	3	7.669	-0.014	194037	1024.6	3	7.867	-0.010	156465	1001.8
Aroclor-1232	4	8.592	-0.013	79288	986.8	4	8.724	-0.010	48801	1152.4
Total Col1Ave (4 peaks):					551.2	Total Col2Ave (4 peaks):				790.7 RPD = 36
Corrected Ave (3 peaks):					393.4	Corrected Ave (3 peaks):				670.2 RPD = 52*
Aroclor-1242	1	7.287	-0.003	58439	513.8	1	7.269	-0.003	65777	483.1
Aroclor-1242	2	7.669	-0.012	194037	537.3	2	7.867	-0.008	156465	541.3
Aroclor-1242	3	8.419	-0.007	60256	579.9	3	9.165	-0.014	9259	99.3
Aroclor-1242	4	9.007	-0.011	80242	371.9	4	9.591	-0.013	5048	45.0
Total Col1Ave (4 peaks):					500.7	Total Col2Ave (4 peaks):				292.2 RPD = 53*
Corrected Ave (3 peaks):					474.3	Corrected Ave (3 peaks):				209.1 RPD = 78*
Aroclor-1248	1	8.419	-0.009	60256	349.2	1	8.318	-0.003	47571	362.0
Aroclor-1248	2	8.592	-0.012	79288	359.9	2	8.724	-0.002	48801	353.1
Aroclor-1248	3	9.007	-0.016	80242	202.5	3	9.165	-0.010	9259	55.1
Aroclor-1248	4	9.312	0.001	68337	352.0	4	9.591	-0.008	5048	25.6
Total Col1Ave (4 peaks):					315.9	Total Col2Ave (4 peaks):				198.9 RPD = 45*
Corrected Ave (3 peaks):					301.2	Corrected Ave (3 peaks):				144.6 RPD = 70*
Aroclor-1254	1	9.312	-0.004	68337	193.4	1	9.457	-0.004	43520	209.8
Aroclor-1254	2	---			0.0	2	9.979	-0.002	9540	57.2
Aroclor-1254	3	9.679	-0.007	13407	60.1	3	10.153	0.020	100790	281.2
Aroclor-1254	4	9.816	-0.009	39176	90.1	4	10.379	-0.005	131487	354.2
Aroclor-1254	5	10.130	-0.061	181247	607.9	5	10.574	-0.005	177405	990.9
Total Col1Ave (4 peaks):					237.9	Total Col2Ave (5 peaks):				378.7 RPD = 46*
Corrected Ave (3 peaks):					114.5	Corrected Ave (4 peaks):				225.6 RPD = 65*
Aroclor-1260	1	11.053	-0.009	152070	445.8	1	11.661	-0.002	139656	431.0
Aroclor-1260	2	11.370	-0.007	160407	454.7	2	11.924	-0.002	343008	421.9
Aroclor-1260	3	11.744	-0.008	415756	448.5	3	12.443	-0.002	96061	443.7
Aroclor-1260	4	12.147	-0.012	220778	467.7	4	12.508	-0.002	243915	450.0
Aroclor-1260	5	12.253	-0.008	90194	466.7	NS	---			----
Total Col1Ave (5 peaks):					456.7	Total Col2Ave (4 peaks):				436.6 RPD = 4
Corrected Ave (4 peaks):					453.9	Corrected Ave (3 peaks):				432.2 RPD = 5
Aroclor-1262	1	10.835	-0.013	302348	964.8	1	11.207	-0.010	128333	274.9
Aroclor-1262	2	12.253	-0.009	90194	185.1	2	11.661	-0.009	139656	345.5
Aroclor-1262	3	12.328	-0.009	109064	209.6	3	12.443	-0.009	96061	215.4
Aroclor-1262	4	12.996	-0.009	111547	267.1	4	12.508	-0.011	243915	349.2
Total Col1Ave (4 peaks):					406.7	Total Col2Ave (4 peaks):				296.3 RPD = 31
Corrected Ave (3 peaks):					220.6	Corrected Ave (3 peaks):				278.6 RPD = 23
Aroclor-1268	1	12.253	-0.009	90194	68.8	1	12.443	-0.007	96061	82.9
Aroclor-1268	2	12.328	-0.007	109064	85.0	2	12.508	-0.009	243915	205.3
Aroclor-1268	3	12.733	0.017	48846	46.5	3	12.900	-0.010	4730	10.7
Aroclor-1268	4	13.497	-0.008	34159	10.6	4	13.715	-0.011	26794	8.5
Total Col1Ave (4 peaks):					52.7	Total Col2Ave (4 peaks):				76.8 RPD = 37

Corrected Ave (3 peaks): 42.0 Corrected Ave (3 peaks): 34.0 RPD = 21

Total PCB Area Col1 (5.932 - 13.804) = 4196415 Col1 Total PCB = 1.1 ppm*

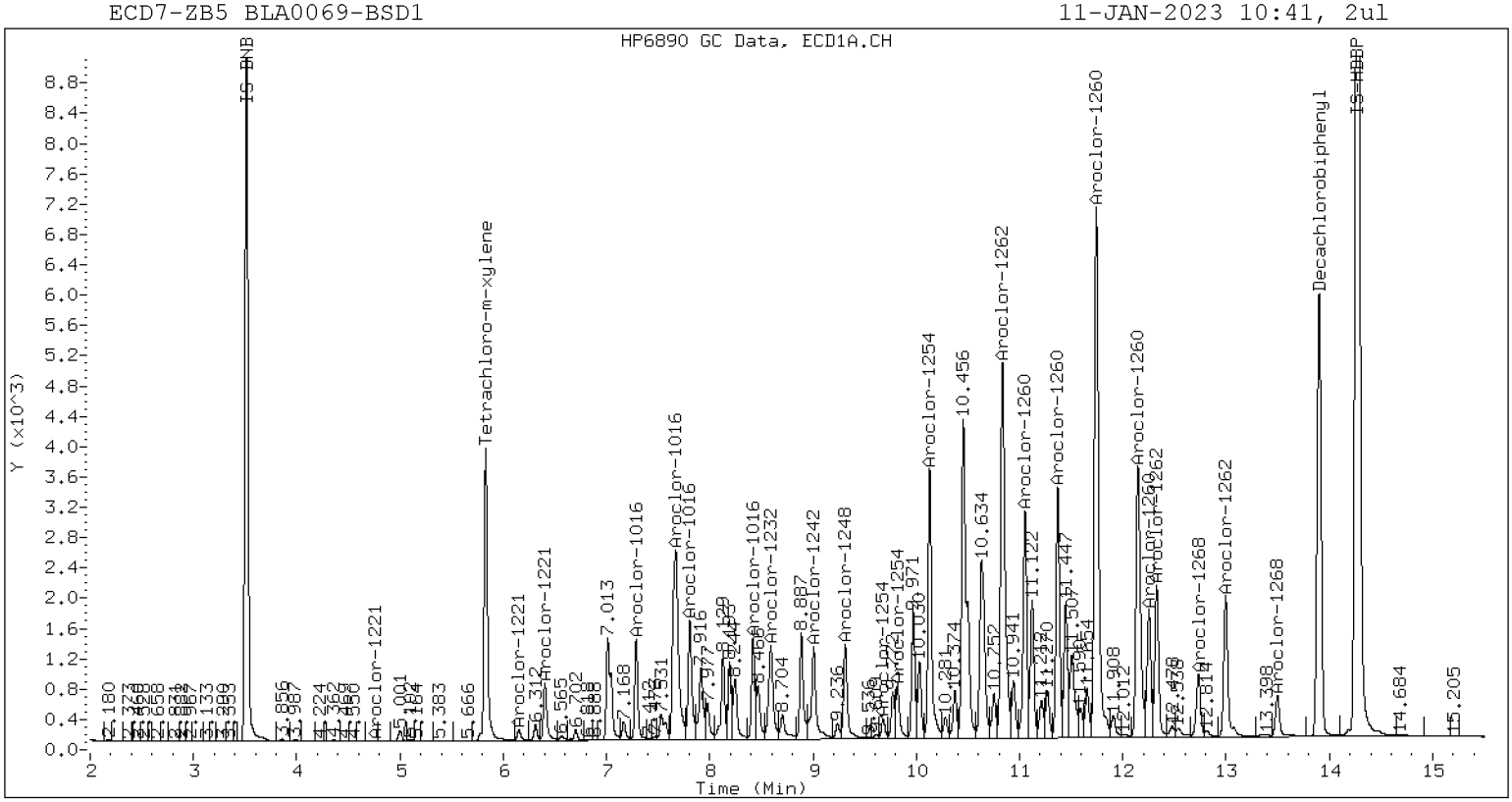
Total PCB Area Col2 (5.807 - 14.028) = 3198534 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

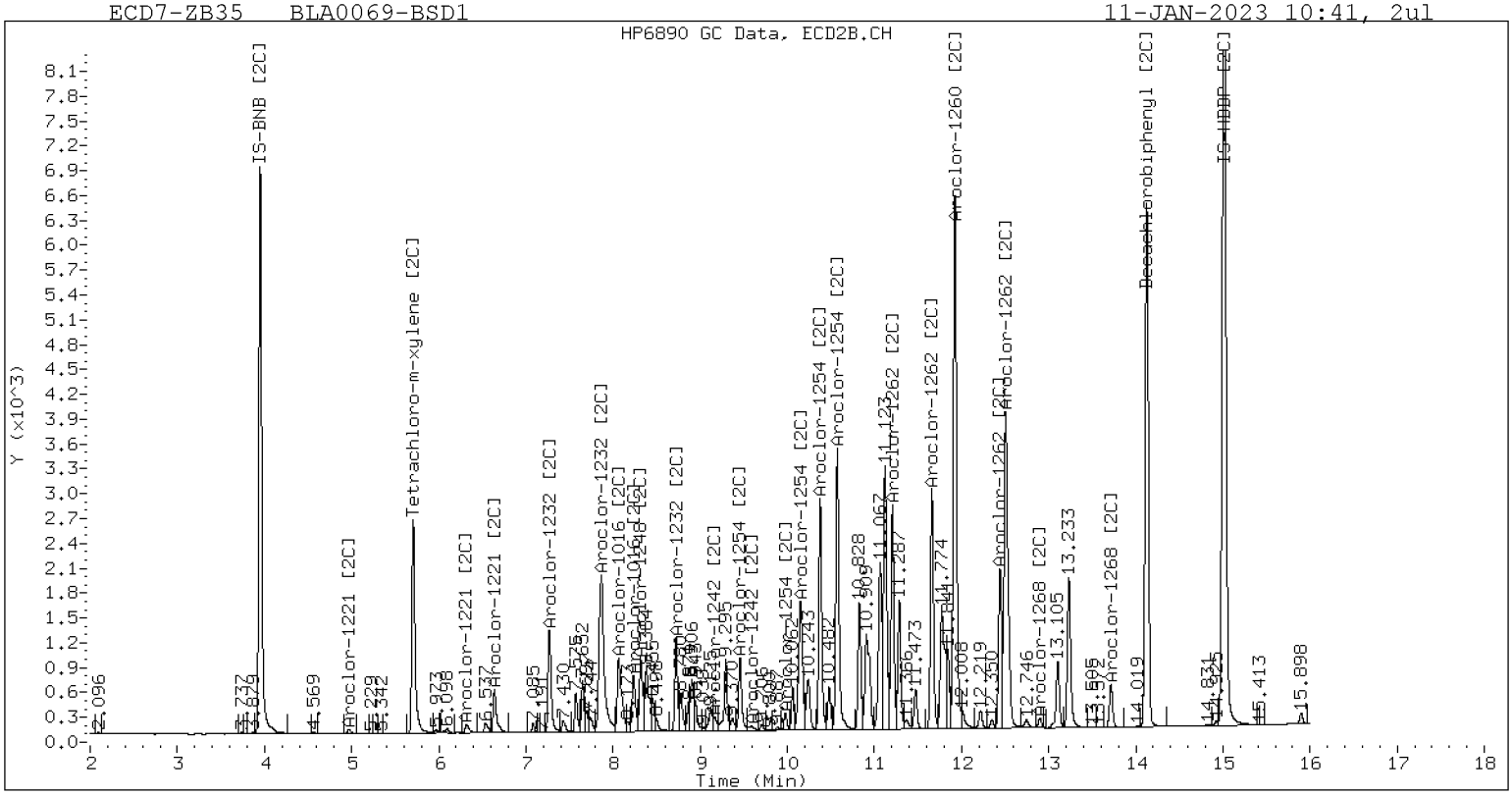
PCB Dual Column Chromatograms

ECD7-ZB5 BLA0069-BSD1 11-JAN-2023 10:41, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLA0069-BSD1 11-JAN-2023 10:41, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/11/23 12:26
Batch:	BLA0069	Laboratory ID:	BLA0069-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	22.72 g / 2.5 mL	Source Sample:	LDW23-SC1039C

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	101	ND	U	80.6		80.0	56 - 120
Aroclor 1260 [2C]	101	87.8		165		76.3	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/11/23 12:47
Batch:	BLA0069	Laboratory ID:	BLA0069-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	22.72 g / 2.5 mL	Source Sample:	LDW23-SC1039C

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	101	85.9		85.2	6.37	30	56 - 120
Aroclor 1260 [2C]	101	180		91.0	8.60	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112311ECD7.D
Data file 2: /230111.b/230111.b/01112311ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0069-MS1
Client ID:
Injection Date: 11-JAN-2023 12:26
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.824	-0.007	137456	5.700	-0.006	109559	23.8	28.6	18.4	Tetrachloro-m-xylene
13.894	-0.010	137931	14.122	-0.006	175241	41.7	38.4	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	407343	-9.0
Hexabromobiphenyl	798898	360566	-54.9 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	279153	12.1
Hexabromobiphenyl	362541	321352	-11.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.280	-0.014	73364	539.9	1	7.266	-0.005	78536	550.3
Aroclor-1016	2	7.713	0.029	8541	19.5	2	7.853	-0.019	182150	591.7
Aroclor-1016	3	7.794	-0.024	74812	376.3	3	8.053	-0.018	52326	395.8
Aroclor-1016	4	8.408	-0.021	85733	676.5	4	8.222	-0.020	41448	596.3
Total Col1Ave (4 peaks):					403.0	Total Col2Ave (4 peaks):				533.5 RPD = 28
Corrected Ave (3 peaks):					311.9	Corrected Ave (3 peaks):				512.6 RPD = 49*
Aroclor-1221	1	4.757	-0.003	1764	52.4	1	4.965	-0.023	2054	87.2
Aroclor-1221	2	6.144	-0.015	8764	147.7	2	6.315	-0.007	5375	119.7
Aroclor-1221	3	6.396	-0.013	40137	293.3	3	6.633	-0.013	30573	404.6
Total Col1Ave (3 peaks):					164.5	Total Col2Ave (3 peaks):				203.8 RPD = 21
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.757	-0.004	1764	87.0	1	4.965	-0.025	2054	151.3
Aroclor-1232	2	6.144	-0.016	8764	204.7	2	7.266	-0.011	78536	1132.9
Aroclor-1232	3	7.656	-0.028	216284	1125.1	3	7.853	-0.024	182150	1344.0
Aroclor-1232	4	8.577	-0.029	82350	1009.6	4	8.716	-0.018	74833	2036.5
Total Col1Ave (4 peaks):					606.6	Total Col2Ave (4 peaks):				1166.2 RPD = 63*
Corrected Ave (3 peaks):					433.8	Corrected Ave (3 peaks):				876.1 RPD = 68*
Aroclor-1242	1	7.280	-0.010	73364	635.4	1	7.266	-0.006	78536	664.7
Aroclor-1242	2	7.656	-0.026	216284	590.0	2	7.853	-0.022	182150	726.3
Aroclor-1242	3	8.408	-0.017	85733	812.8	3	9.147	-0.032	70625	872.8
Aroclor-1242	4	8.993	-0.025	149586	683.0	4	9.623	0.019	5545	57.0
Total Col1Ave (4 peaks):					680.3	Total Col2Ave (4 peaks):				580.2 RPD = 16
Corrected Ave (3 peaks):					636.1	Corrected Ave (3 peaks):				482.7 RPD = 27
Aroclor-1248	1	8.408	-0.019	85733	489.5	1	8.311	-0.010	64915	569.2
Aroclor-1248	2	8.577	-0.027	82350	368.3	2	8.716	-0.011	74833	623.9
Aroclor-1248	3	8.993	-0.029	149586	371.8	3	9.147	-0.028	70625	484.1
Aroclor-1248	4	9.296	-0.015	145358	737.6	4	9.541	-0.058	46795	273.2
Total Col1Ave (4 peaks):					491.8	Total Col2Ave (4 peaks):				487.6 RPD = 1
Corrected Ave (3 peaks):					409.9	Corrected Ave (3 peaks):				442.2 RPD = 8
Aroclor-1254	1	9.296	-0.019	145358	405.3	1	9.447	-0.014	108032	600.2
Aroclor-1254	2	9.371	-0.022	50515	362.2	2	9.965	-0.015	49391	341.3
Aroclor-1254	3	9.669	-0.017	102018	450.4	3	10.114	-0.020	210852	677.9
Aroclor-1254	4	9.796	-0.029	201227	455.7	4	10.367	-0.016	257311	798.8
Aroclor-1254	5	10.124	-0.067	288614	953.5	5	10.563	-0.017	218858	1408.7
Total Col1Ave (5 peaks):					525.4	Total Col2Ave (5 peaks):				765.4 RPD = 37
Corrected Ave (4 peaks):					418.4	Corrected Ave (4 peaks):				604.6 RPD = 36
Aroclor-1260	1	11.042	-0.020	122116	930.4	1	11.652	-0.011	147945	872.2
Aroclor-1260	2	11.358	-0.020	120832	890.1	2	11.913	-0.013	317659	746.3
Aroclor-1260	3	11.727	-0.024	304367	853.4	3	12.433	-0.011	102431	903.7
Aroclor-1260	4	12.128	-0.030	172018	947.0	4	12.497	-0.014	219083	772.1
Aroclor-1260	5	12.244	-0.018	68376	919.6	NS	---			----
Total Col1Ave (5 peaks):					908.1	Total Col2Ave (4 peaks):				823.6 RPD = 10
Corrected Ave (4 peaks):					898.4	Corrected Ave (3 peaks):				796.9 RPD = 12
Aroclor-1262	1	10.817	-0.031	365260	3029.3	1	11.199	-0.018	116747	477.8
Aroclor-1262	2	12.244	-0.019	68376	364.7	2	11.652	-0.018	147945	699.1
Aroclor-1262	3	12.316	-0.020	79403	396.6	3	12.433	-0.018	102431	438.8
Aroclor-1262	4	12.980	-0.025	85258	530.6	4	12.497	-0.023	219083	599.1
Total Col1Ave (4 peaks):					1080.3	Total Col2Ave (4 peaks):				553.7 RPD = 64*
Corrected Ave (3 peaks):					430.7	Corrected Ave (3 peaks):				505.2 RPD = 16
Aroclor-1268	1	12.244	-0.019	68376	135.5	1	12.433	-0.016	102431	168.9
Aroclor-1268	2	12.316	-0.019	79403	160.9	2	12.497	-0.020	219083	352.2
Aroclor-1268	3	12.718	0.001	39094	96.7	3	12.892	-0.018	8753	38.0
Aroclor-1268	4	13.486	-0.020	26053	21.1	4	13.707	-0.019	30766	18.5
Total Col1Ave (4 peaks):					103.5	Total Col2Ave (4 peaks):				144.4 RPD = 33

Corrected Ave (3 peaks): 84.4 Corrected Ave (3 peaks): 75.1 RPD = 12

Total PCB Area Col1 (5.932 - 13.804) = 5163465 Col1 Total PCB = 1.3 ppm*

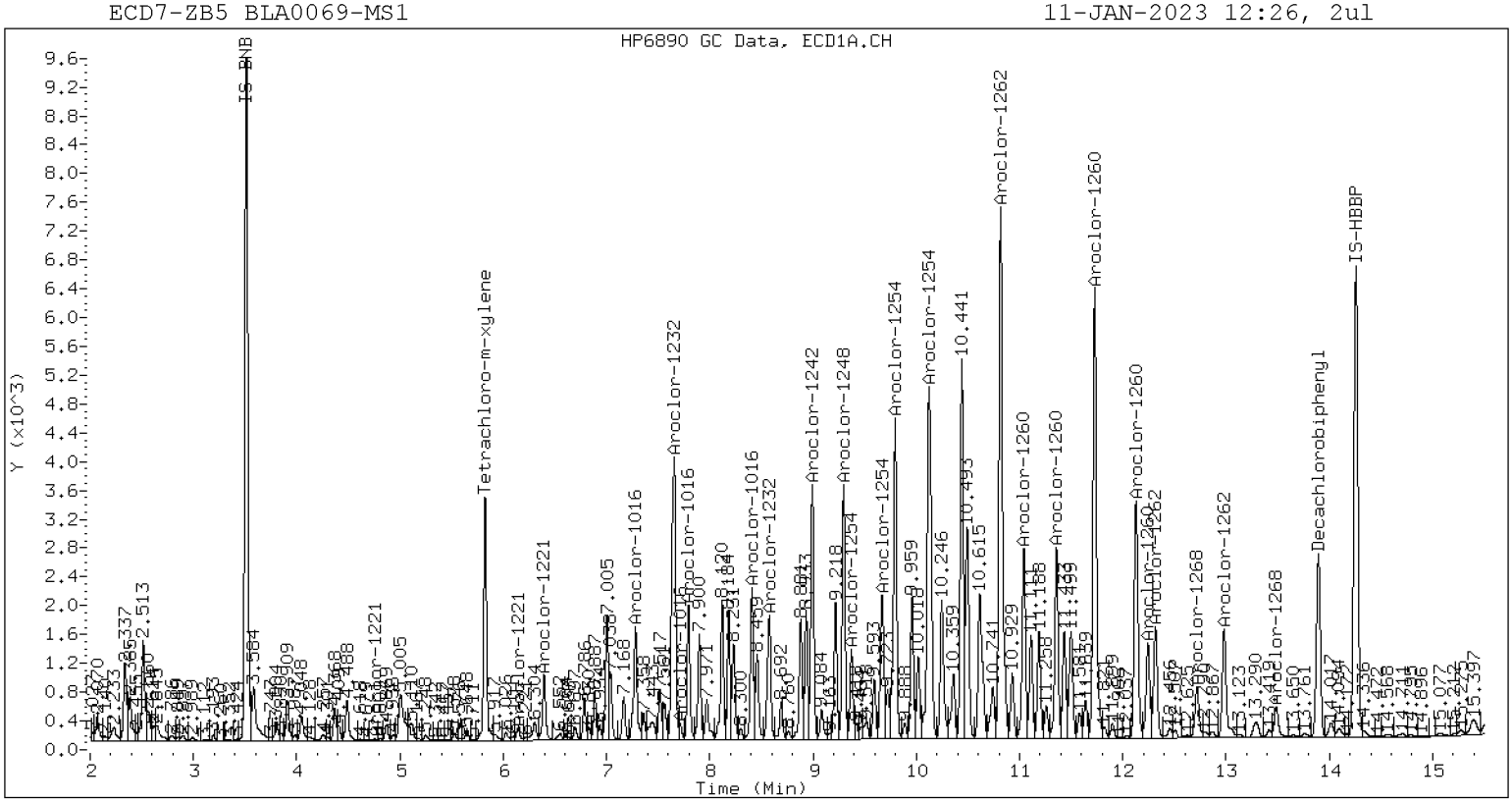
Total PCB Area Col2 (5.807 - 14.028) = 4578920 Col2 Total PCB = 1.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

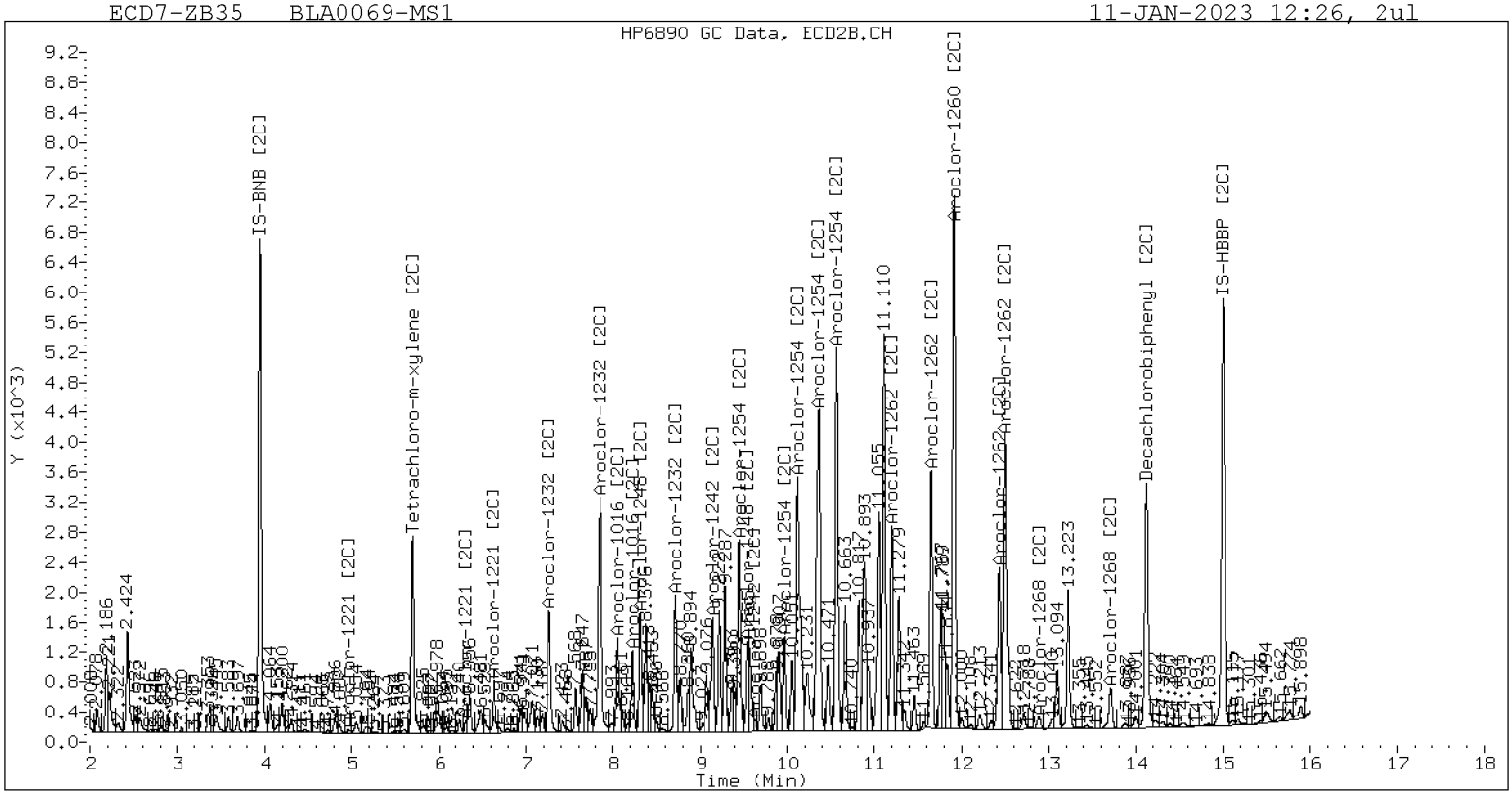
PCB Dual Column Chromatograms

ECD7-ZB5 BLA0069-MS1 11-JAN-2023 12:26, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 BLA0069-MS1 11-JAN-2023 12:26, 2ul

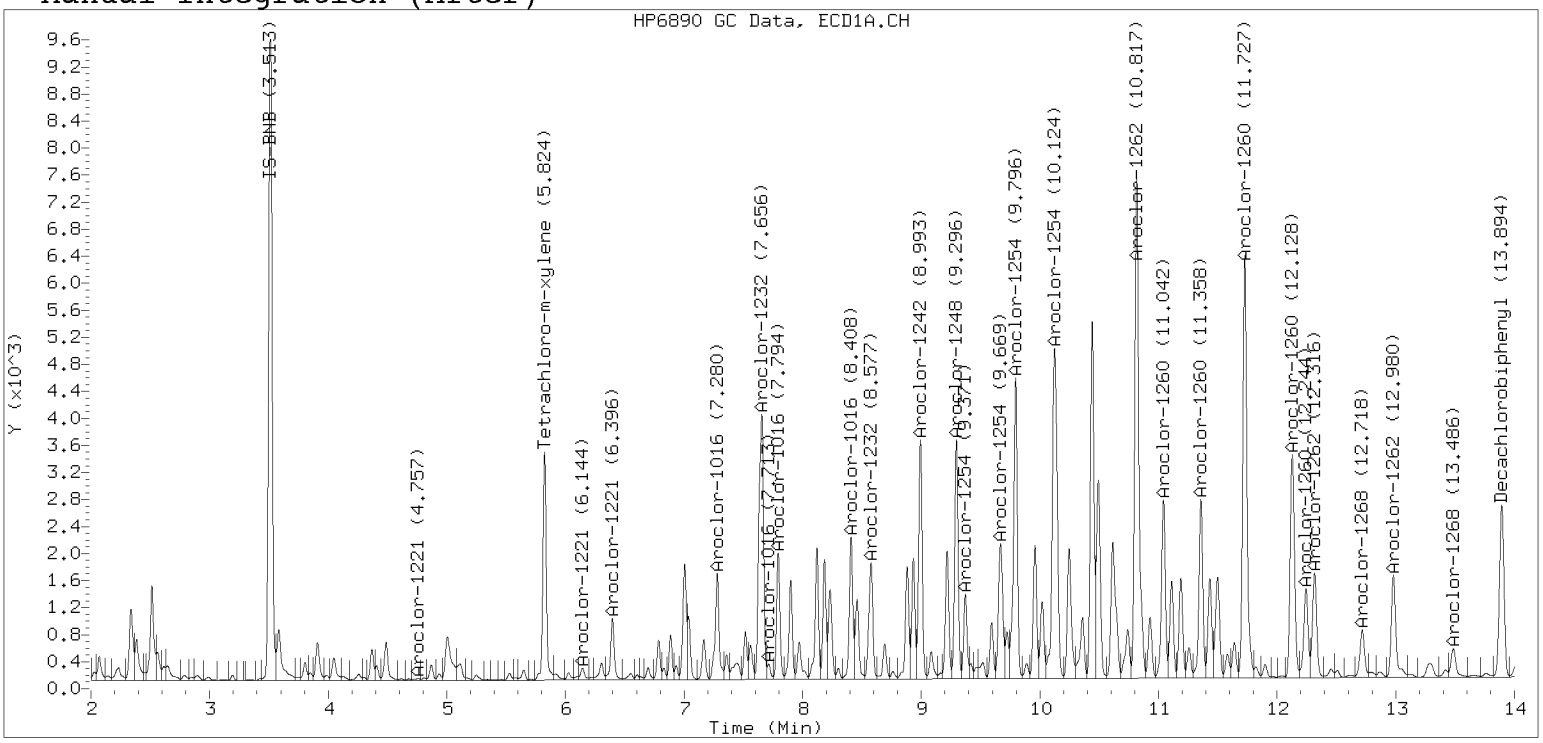


ZB-35 Manual Integration: YES

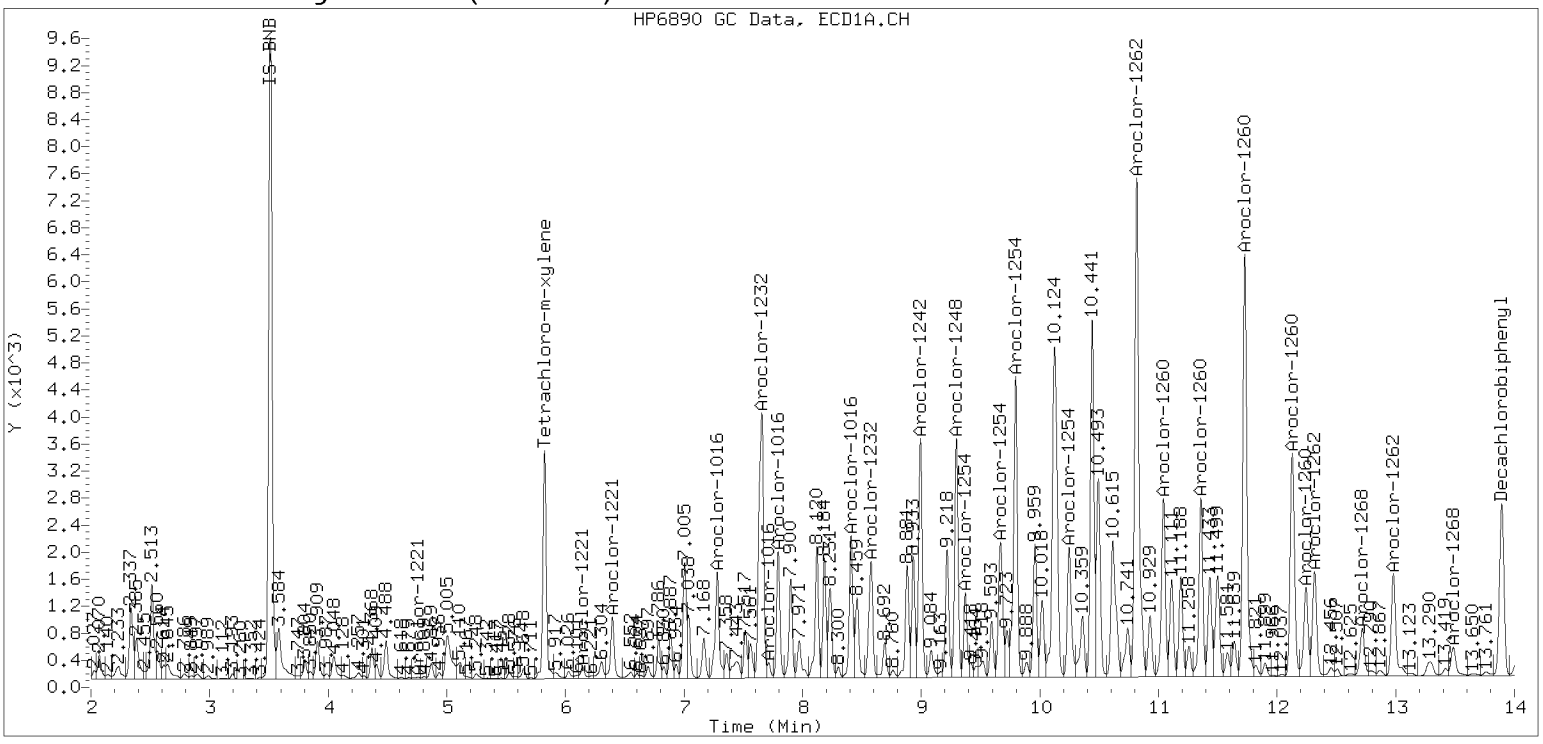
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230111.b/01112311ECD7.D Injection Date: 11-JAN-2023 12:26

Manual Integration (After)



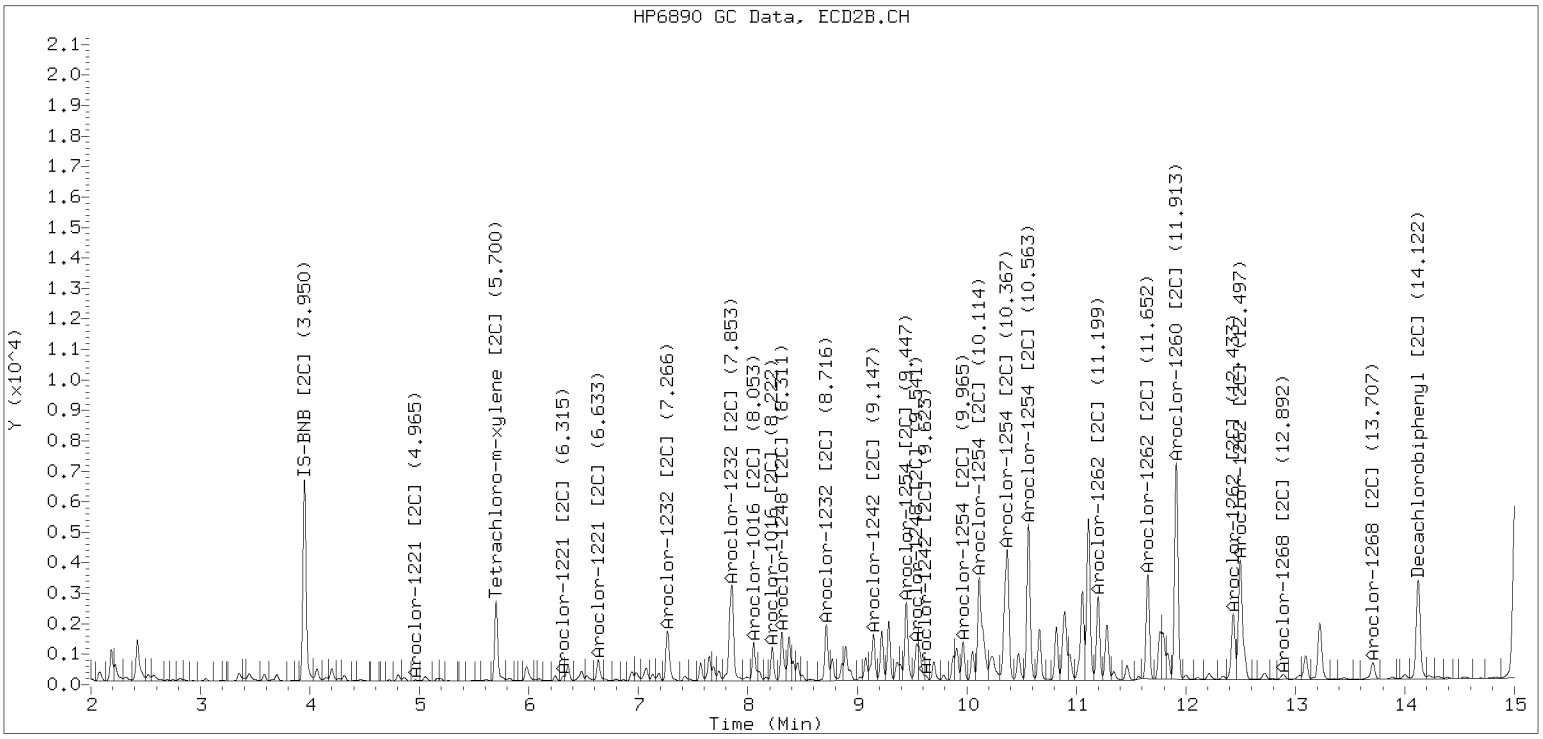
Processed Integration (Before)



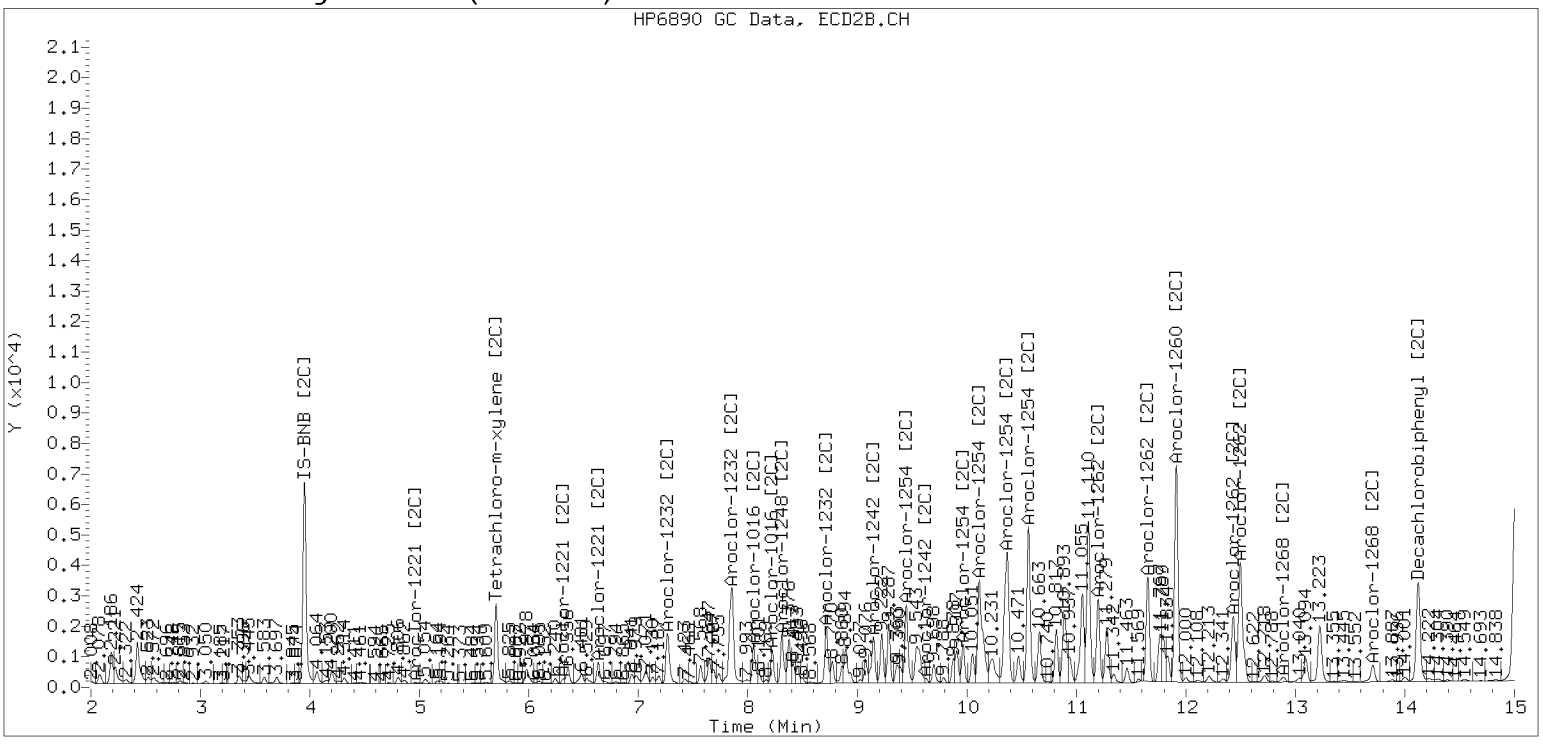
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230111.b/230111.b/01112311ECD7.D Injection Date: 11-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112312ECD7.D
Data file 2: /230111.b/230111.b/01112312ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0069-MSD1
Client ID:
Injection Date: 11-JAN-2023 12:47
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.824	-0.007	120821	5.701	-0.006	95790	22.2	25.8	14.8	Tetrachloro-m-xylene
13.894	-0.010	119828	14.123	-0.005	153537	38.5	36.2	6.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	383338	-14.4
Hexabromobiphenyl	798898	339684	-57.5 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270867	8.7
Hexabromobiphenyl	362541	299055	-17.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.279	-0.015	71900	562.3	1	7.265	-0.006	70219	507.0
Aroclor-1016	2	7.714	0.029	9727	23.6	2	7.853	-0.018	179390	600.6
Aroclor-1016	3	7.793	-0.024	72028	385.0	3	8.052	-0.018	60625	472.6
Aroclor-1016	4	8.408	-0.022	89132	747.3	4	8.221	-0.021	37844	561.1
Total Col1Ave (4 peaks):					429.5	Total Col2Ave (4 peaks):				535.3 RPD = 22
Corrected Ave (3 peaks):					323.6	Corrected Ave (3 peaks):				513.6 RPD = 45*
Aroclor-1221	1	4.721	-0.039	1970	62.2	1	4.962	-0.025	5544	242.5
Aroclor-1221	2	6.146	-0.013	5970	106.9	2	6.313	-0.008	4958	113.8
Aroclor-1221	3	6.396	-0.013	35946	279.1	3	6.633	-0.013	29405	401.1
Total Col1Ave (3 peaks):					149.4	Total Col2Ave (3 peaks):				252.5 RPD = 51*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.721	-0.040	1970	103.3	1	4.962	-0.027	5544	420.9
Aroclor-1232	2	6.146	-0.014	5970	148.2	2	7.265	-0.012	70219	1043.9
Aroclor-1232	3	7.655	-0.029	212367	1173.9	3	7.853	-0.023	179390	1364.2
Aroclor-1232	4	8.577	-0.029	83255	1084.7	4	8.716	-0.018	74895	2100.6
Total Col1Ave (4 peaks):					627.5	Total Col2Ave (4 peaks):				1232.4 RPD = 65*
Corrected Ave (3 peaks):					445.4	Corrected Ave (3 peaks):				943.0 RPD = 72*
Aroclor-1242	1	7.279	-0.011	71900	661.7	1	7.265	-0.007	70219	612.5
Aroclor-1242	2	7.655	-0.027	212367	615.6	2	7.853	-0.021	179390	737.1
Aroclor-1242	3	8.408	-0.018	89132	898.0	3	9.146	-0.033	76132	969.7
Aroclor-1242	4	8.993	-0.025	164911	800.1	4	9.625	0.021	7673	81.3
Total Col1Ave (4 peaks):					743.9	Total Col2Ave (4 peaks):				600.2 RPD = 21
Corrected Ave (3 peaks):					692.5	Corrected Ave (3 peaks):				477.0 RPD = 37
Aroclor-1248	1	8.408	-0.020	89132	540.8	1	8.310	-0.010	65422	591.2
Aroclor-1248	2	8.577	-0.027	83255	395.6	2	8.716	-0.011	74895	643.5
Aroclor-1248	3	8.993	-0.029	164911	435.6	3	9.146	-0.028	76132	537.8
Aroclor-1248	4	9.297	-0.014	160145	863.5	4	9.542	-0.057	58457	351.8
Total Col1Ave (4 peaks):					558.9	Total Col2Ave (4 peaks):				531.1 RPD = 5
Corrected Ave (3 peaks):					457.3	Corrected Ave (3 peaks):				493.6 RPD = 8
Aroclor-1254	1	9.297	-0.019	160145	474.5	1	9.447	-0.014	118633	679.3
Aroclor-1254	2	9.371	-0.022	59567	453.8	2	9.966	-0.015	55078	392.3
Aroclor-1254	3	9.669	-0.017	113646	533.1	3	10.114	-0.020	224340	743.3
Aroclor-1254	4	9.796	-0.029	220945	531.7	4	10.367	-0.016	274224	877.3
Aroclor-1254	5	10.124	-0.067	312753	1098.0	5	10.563	-0.017	229683	1523.6
Total Col1Ave (5 peaks):					618.2	Total Col2Ave (5 peaks):				843.2 RPD = 31
Corrected Ave (4 peaks):					498.3	Corrected Ave (4 peaks):				673.1 RPD = 30
Aroclor-1260	1	11.042	-0.020	126376	1022.1	1	11.652	-0.011	148648	941.7
Aroclor-1260	2	11.357	-0.020	121154	947.4	2	11.913	-0.013	322741	814.8
Aroclor-1260	3	11.728	-0.024	309525	921.2	3	12.432	-0.012	104262	988.4
Aroclor-1260	4	12.127	-0.031	173790	1015.6	4	12.496	-0.014	223251	845.5
Aroclor-1260	5	12.244	-0.017	72768	1038.8	NS	---			----
Total Col1Ave (5 peaks):					989.0	Total Col2Ave (4 peaks):				897.6 RPD = 10
Corrected Ave (4 peaks):					976.6	Corrected Ave (3 peaks):				867.3 RPD = 12
Aroclor-1262	1	10.816	-0.032	384563	3385.4	1	11.198	-0.019	119236	524.4
Aroclor-1262	2	12.244	-0.019	72768	412.0	2	11.652	-0.018	148648	754.8
Aroclor-1262	3	12.317	-0.020	83805	444.3	3	12.432	-0.019	104262	479.9
Aroclor-1262	4	12.982	-0.023	89570	591.7	4	12.496	-0.023	223251	656.1
Total Col1Ave (4 peaks):					1208.4	Total Col2Ave (4 peaks):				603.8 RPD = 67*
Corrected Ave (3 peaks):					482.7	Corrected Ave (3 peaks):				553.5 RPD = 14
Aroclor-1268	1	12.244	-0.018	72768	153.1	1	12.432	-0.017	104262	184.7
Aroclor-1268	2	12.317	-0.018	83805	180.3	2	12.496	-0.021	223251	385.7
Aroclor-1268	3	12.718	0.002	40761	107.0	3	12.892	-0.018	9419	43.9
Aroclor-1268	4	13.487	-0.018	28093	24.1	4	13.708	-0.018	33379	21.6
Total Col1Ave (4 peaks):					116.1	Total Col2Ave (4 peaks):				159.0 RPD = 31

Corrected Ave (3 peaks): 94.7 Corrected Ave (3 peaks): 83.4 RPD = 13

Total PCB Area Col1 (5.932 - 13.804) = 5384738 Col1 Total PCB = 1.5 ppm*

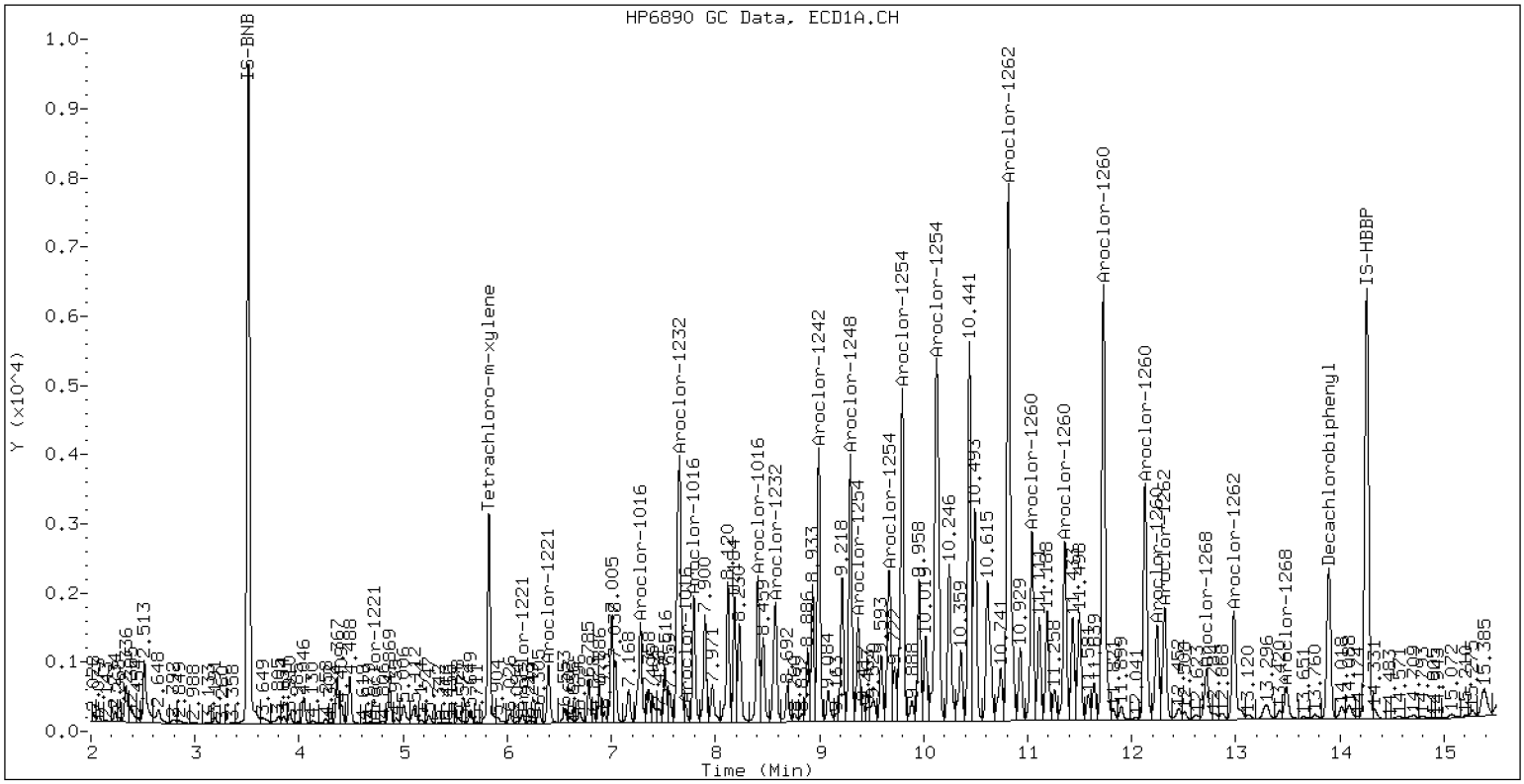
Total PCB Area Col2 (5.807 - 14.028) = 4731520 Col2 Total PCB = 1.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

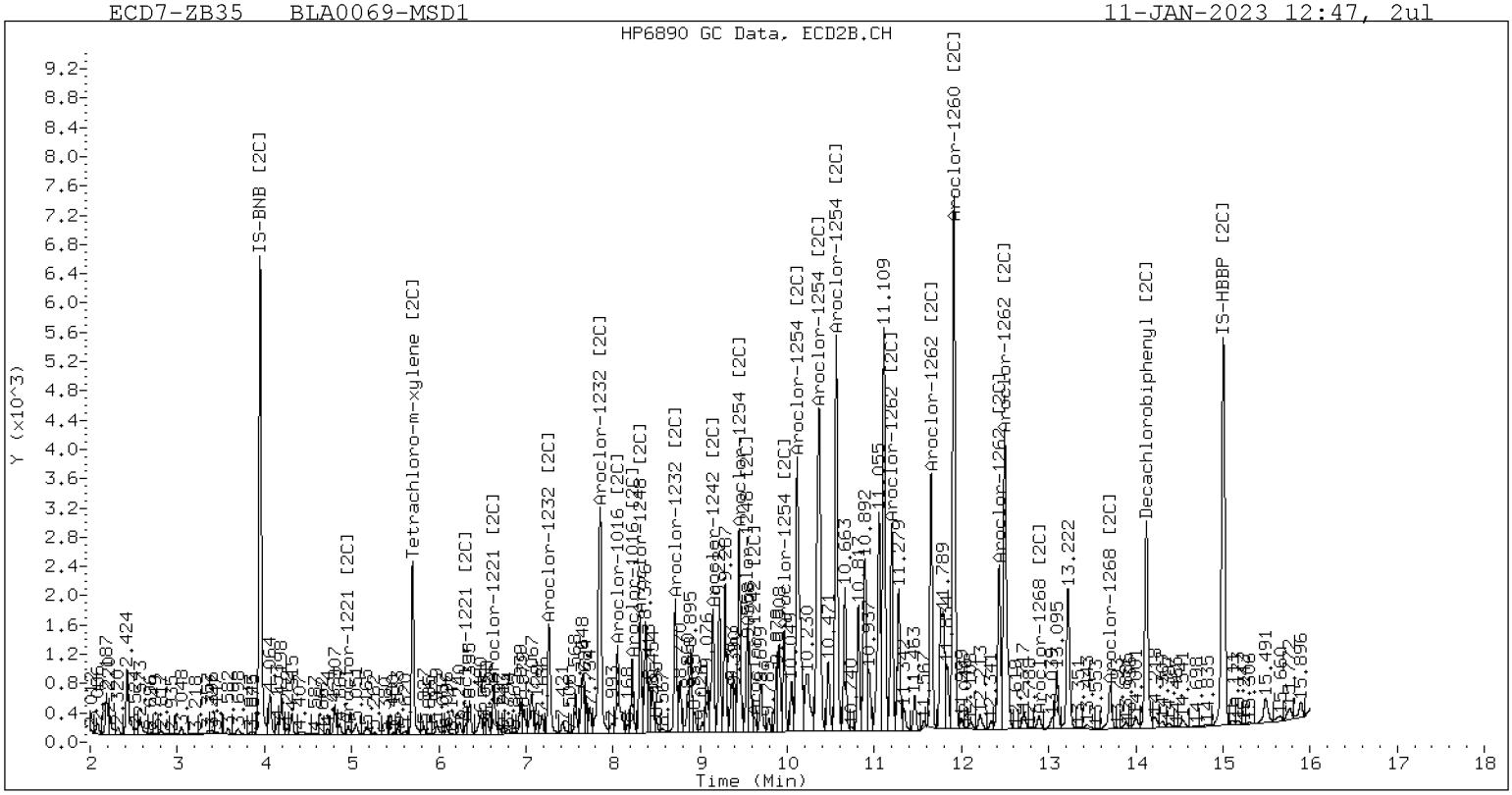
PCB Dual Column Chromatograms

ECD7-ZB5 BLA0069-MSD1 11-JAN-2023 12:47, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 BLA0069-MSD1 11-JAN-2023 12:47, 2ul

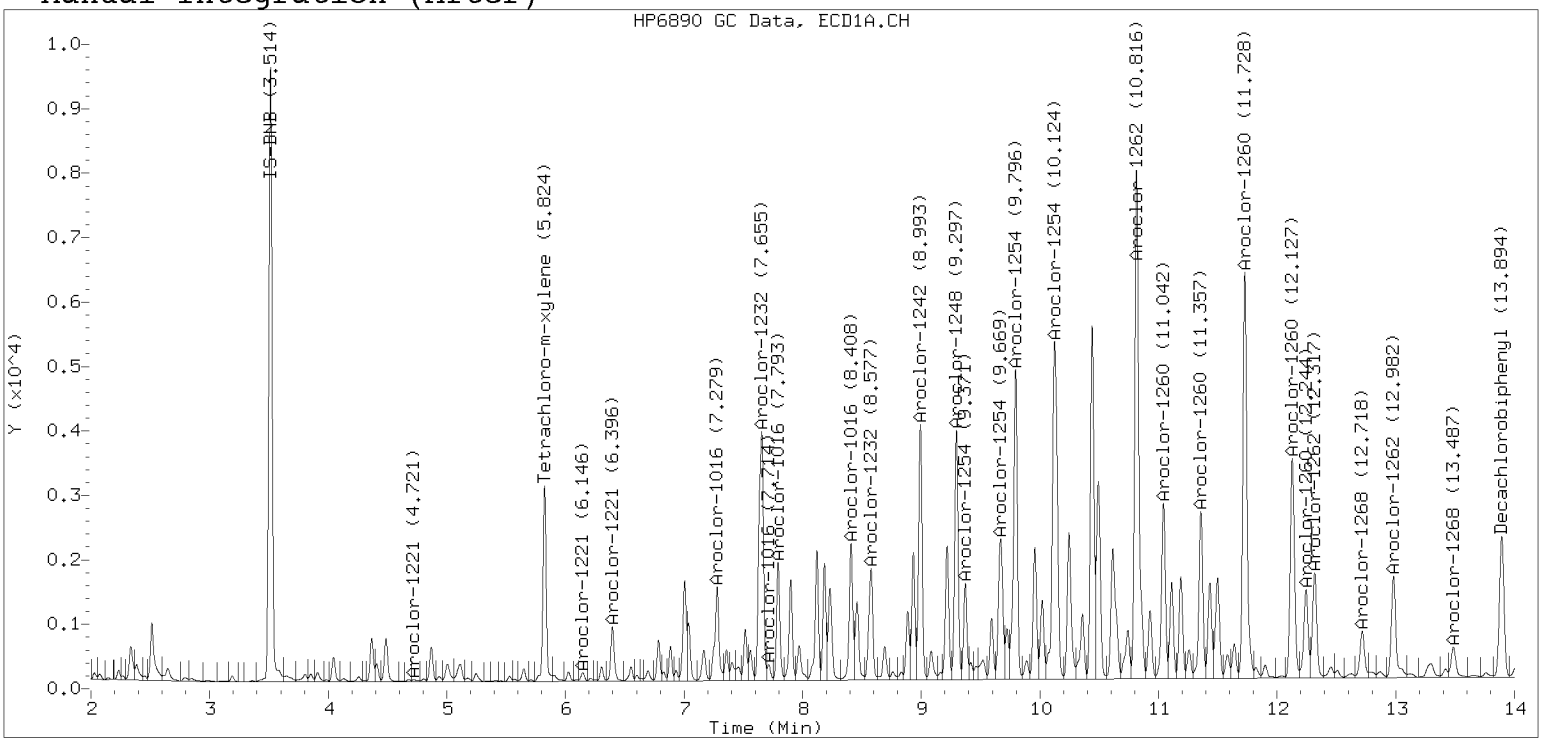


ZB-35 Manual Integration: YES

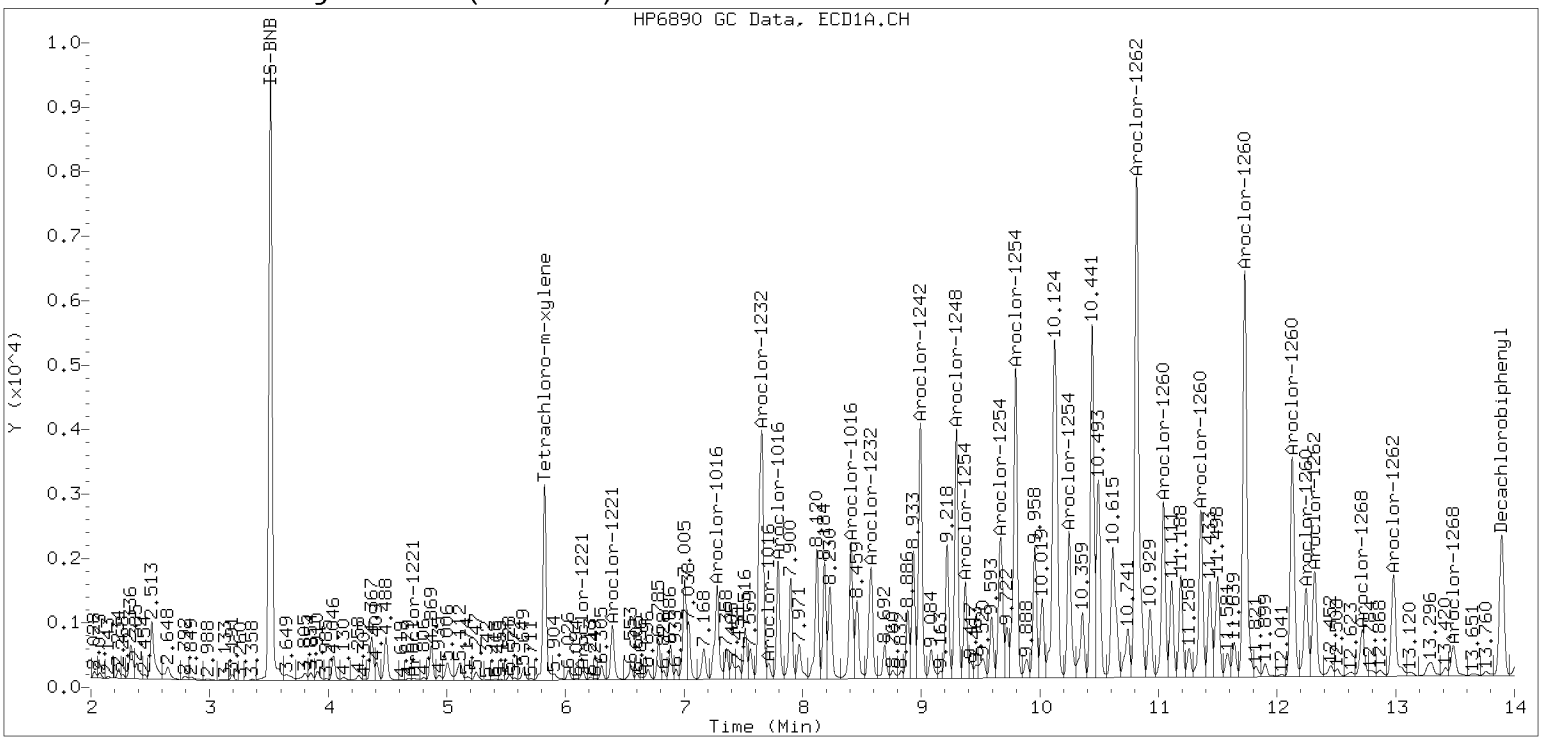
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230111.b/01112312ECD7.D Injection Date: 11-JAN-2023 12:47

Manual Integration (After)



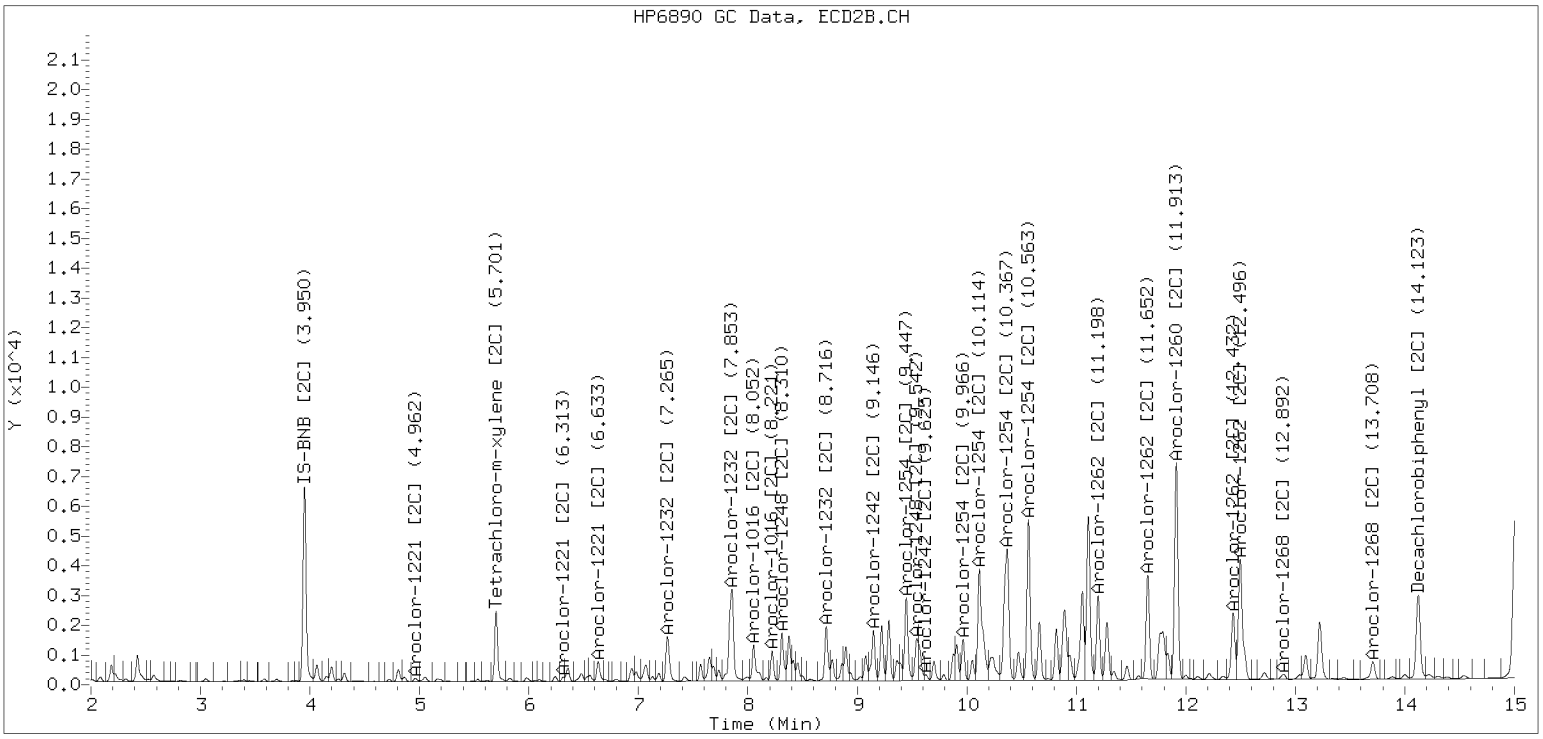
Processed Integration (Before)



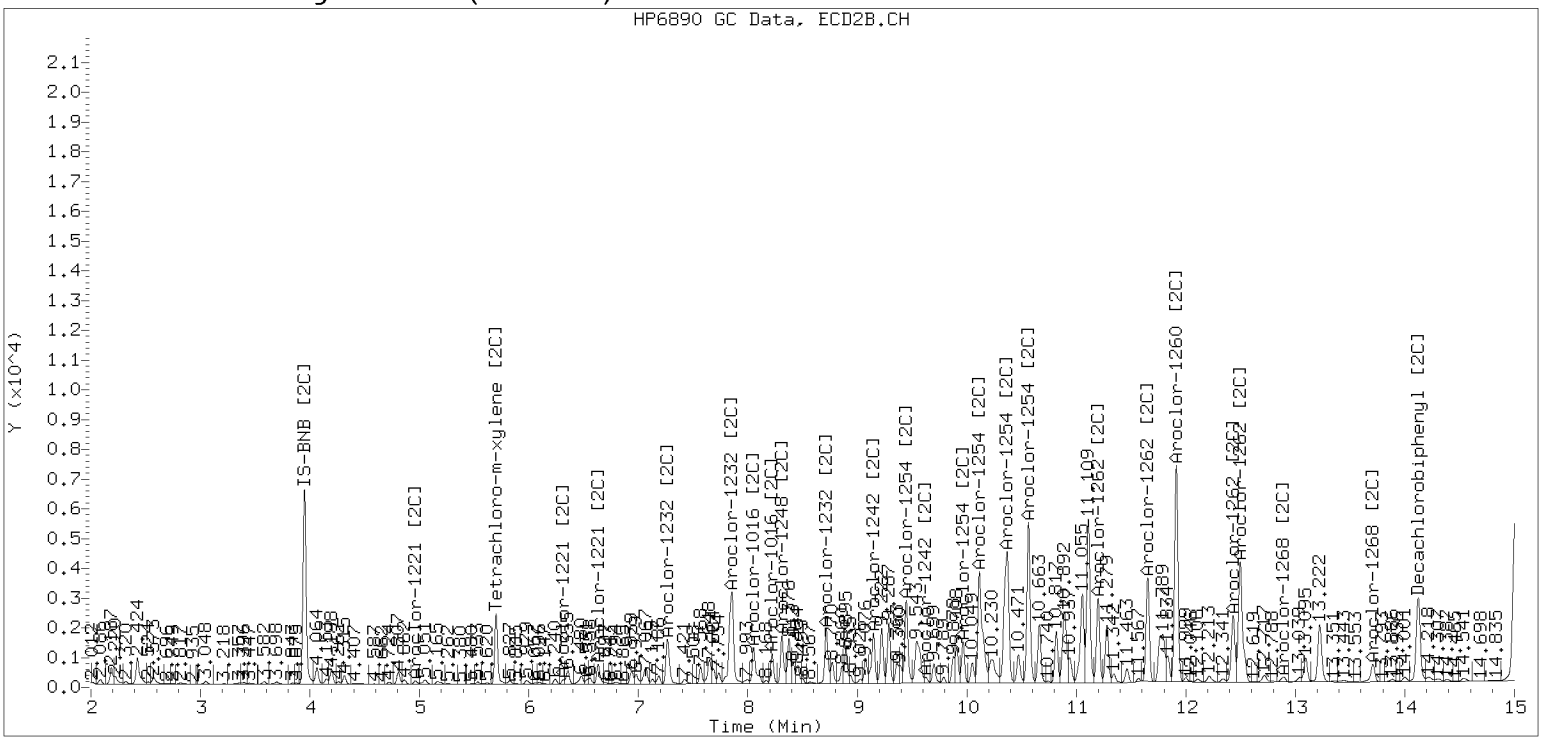
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230111.b/230111.b/01112312ECD7.D Injection Date: 11-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLA0069-SRM1
Batch: BLA0069
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 01/11/2023 11:02
Standard ID: K011477
Expires: 06/11/2023
Standard Lot#: PSRM0168
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	120	2.9	20.0		111	38 - 167
Aroclor 1260 [2C]	108.00	109	2.9	20.0		101	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112307ECD7.D
Data file 2: /230111.b/230111.b/01112307ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0069-SRM1
Client ID:
Injection Date: 11-JAN-2023 11:02
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.003	176033	5.705	-0.002	130098	30.3	30.0	1.1	Tetrachloro-m-xylene
13.897	-0.007	240343	14.123	-0.005	252201	37.4	33.7	10.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	409908	-8.4
Hexabromobiphenyl	798898	700787	-12.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	316623	27.1
Hexabromobiphenyl	362541	527740	45.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.254	-0.040	16893	123.5	1	7.280	0.010	12478	77.1
Aroclor-1016	2	7.666	-0.018	5649	12.8	2	7.855	-0.017	8091	23.2
Aroclor-1016	3	7.821	0.003	5254	26.3	3	8.062	-0.009	1707	11.4
Aroclor-1016	4	8.417	-0.012	11268	88.4	4	8.228	-0.014	2359	29.9
Total Col1Ave (4 peaks):					62.7	Total Col2Ave (4 peaks):				35.4 RPD = 56*
Corrected Ave (3 peaks):					42.5	Corrected Ave (3 peaks):				21.5 RPD = 66*
Aroclor-1221	1	4.761	0.001	560	16.5	1	4.966	-0.021	1522	57.0
Aroclor-1221	2	6.139	-0.020	1606	26.9	2	6.361	0.040	22079	433.5
Aroclor-1221	3	6.412	0.003	1730	12.6	3	6.656	0.011	3990	46.6
Total Col1Ave (3 peaks):					18.7	Total Col2Ave (3 peaks):				179.0 RPD = 162*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.761	0.000	560	27.5	1	4.966	-0.023	1522	98.9
Aroclor-1232	2	6.139	-0.021	1606	37.3	2	7.280	0.003	12478	158.7
Aroclor-1232	3	7.666	-0.017	5649	29.2	3	7.855	-0.022	8091	52.6
Aroclor-1232	4	8.587	-0.019	6468	78.8	4	8.722	-0.012	4652	111.6
Total Col1Ave (4 peaks):					43.2	Total Col2Ave (4 peaks):				105.5 RPD = 84*
Corrected Ave (3 peaks):					31.3	Corrected Ave (3 peaks):				87.7 RPD = 95*
Aroclor-1242	1	7.254	-0.036	16893	145.4	1	7.280	0.008	12478	93.1
Aroclor-1242	2	7.666	-0.016	5649	15.3	2	7.855	-0.020	8091	28.4
Aroclor-1242	3	8.417	-0.008	11268	106.2	3	9.159	-0.020	6555	71.4
Aroclor-1242	4	9.003	-0.015	15748	71.5	4	9.548	-0.056	9865	89.4
Total Col1Ave (4 peaks):					84.6	Total Col2Ave (4 peaks):				70.6 RPD = 18
Corrected Ave (3 peaks):					64.3	Corrected Ave (3 peaks):				63.1 RPD = 2
Aroclor-1248	1	8.417	-0.010	11268	63.9	1	8.316	-0.005	5614	43.4
Aroclor-1248	2	8.587	-0.018	6468	28.7	2	8.722	-0.005	4652	34.2
Aroclor-1248	3	9.003	-0.019	15748	38.9	3	9.159	-0.016	6555	39.6
Aroclor-1248	4	9.305	-0.007	20720	104.5	4	9.548	-0.051	9865	50.8
Total Col1Ave (4 peaks):					59.0	Total Col2Ave (4 peaks):				42.0 RPD = 34
Corrected Ave (3 peaks):					43.9	Corrected Ave (3 peaks):				39.1 RPD = 12
Aroclor-1254	1	9.305	-0.011	20720	57.4	1	9.454	-0.007	15537	76.1
Aroclor-1254	2	9.381	-0.013	7811	55.6	2	9.972	-0.009	7660	46.7
Aroclor-1254	3	9.675	-0.011	12187	53.5	3	10.124	-0.009	31918	90.5
Aroclor-1254	4	9.806	-0.019	32427	73.0	4	10.374	-0.009	40548	111.0
Aroclor-1254	5	10.126	-0.066	49399	162.2	5	10.568	-0.011	40432	229.4
Total Col1Ave (5 peaks):					80.3	Total Col2Ave (5 peaks):				110.7 RPD = 32
Corrected Ave (4 peaks):					59.9	Corrected Ave (4 peaks):				81.1 RPD = 30
Aroclor-1260	1	11.048	-0.015	31807	124.7	1	11.657	-0.006	30267	108.7
Aroclor-1260	2	11.361	-0.016	27769	105.3	2	11.917	-0.009	69842	99.9
Aroclor-1260	3	11.733	-0.018	86178	124.3	3	12.436	-0.009	23083	124.0
Aroclor-1260	4	12.134	-0.024	44428	125.8	4	12.501	-0.010	47387	101.7
Aroclor-1260	5	12.247	-0.015	17077	118.2	NS	---			----
Total Col1Ave (5 peaks):					119.7	Total Col2Ave (4 peaks):				108.6 RPD = 10
Corrected Ave (4 peaks):					118.1	Corrected Ave (3 peaks):				103.4 RPD = 13
Aroclor-1262	1	10.824	-0.024	67841	289.5	1	11.202	-0.015	26982	67.2
Aroclor-1262	2	12.247	-0.016	17077	46.9	2	11.657	-0.013	30267	87.1
Aroclor-1262	3	12.320	-0.017	20614	53.0	3	12.436	-0.016	23083	60.2
Aroclor-1262	4	12.986	-0.019	19089	61.1	4	12.501	-0.019	47387	78.9
Total Col1Ave (4 peaks):					112.6	Total Col2Ave (4 peaks):				73.4 RPD = 42*
Corrected Ave (3 peaks):					53.7	Corrected Ave (3 peaks):				68.8 RPD = 25
Aroclor-1268	1	12.247	-0.016	17077	17.4	1	12.436	-0.014	23083	23.2
Aroclor-1268	2	12.320	-0.015	20614	21.5	2	12.501	-0.017	47387	46.4
Aroclor-1268	3	12.725	0.008	8868	11.3	3	12.897	-0.012	748	2.0
Aroclor-1268	4	13.491	-0.015	3368	1.4	4	13.710	-0.017	5151	1.9
Total Col1Ave (4 peaks):					12.9	Total Col2Ave (4 peaks):				18.4 RPD = 35

Corrected Ave (3 peaks): 10.0 Corrected Ave (3 peaks): 9.0 RPD = 11

Total PCB Area Col1 (5.932 - 13.804) = 1083638 Col1 Total PCB = 0.3 ppm*

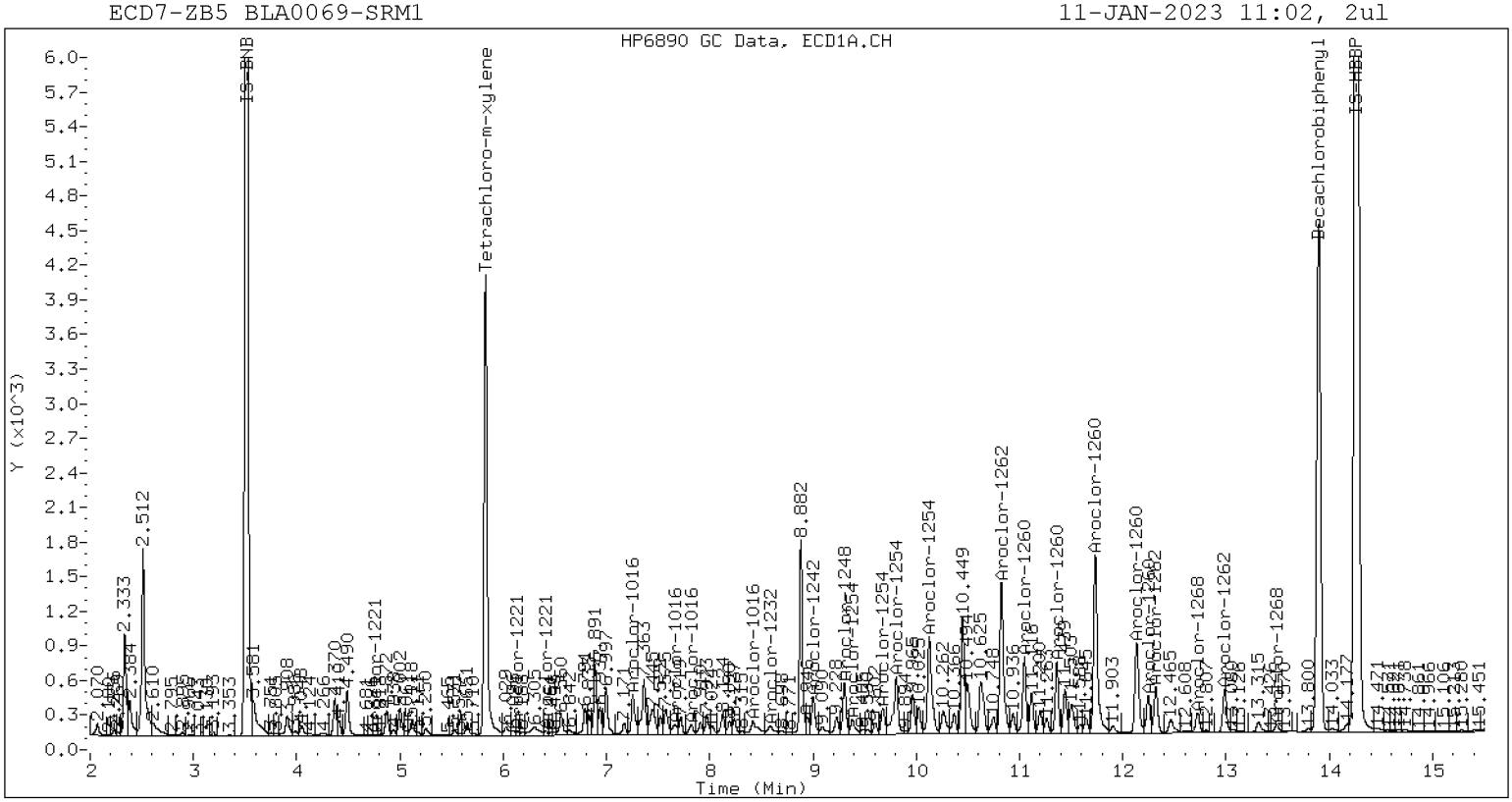
Total PCB Area Col2 (5.807 - 14.028) = 865781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

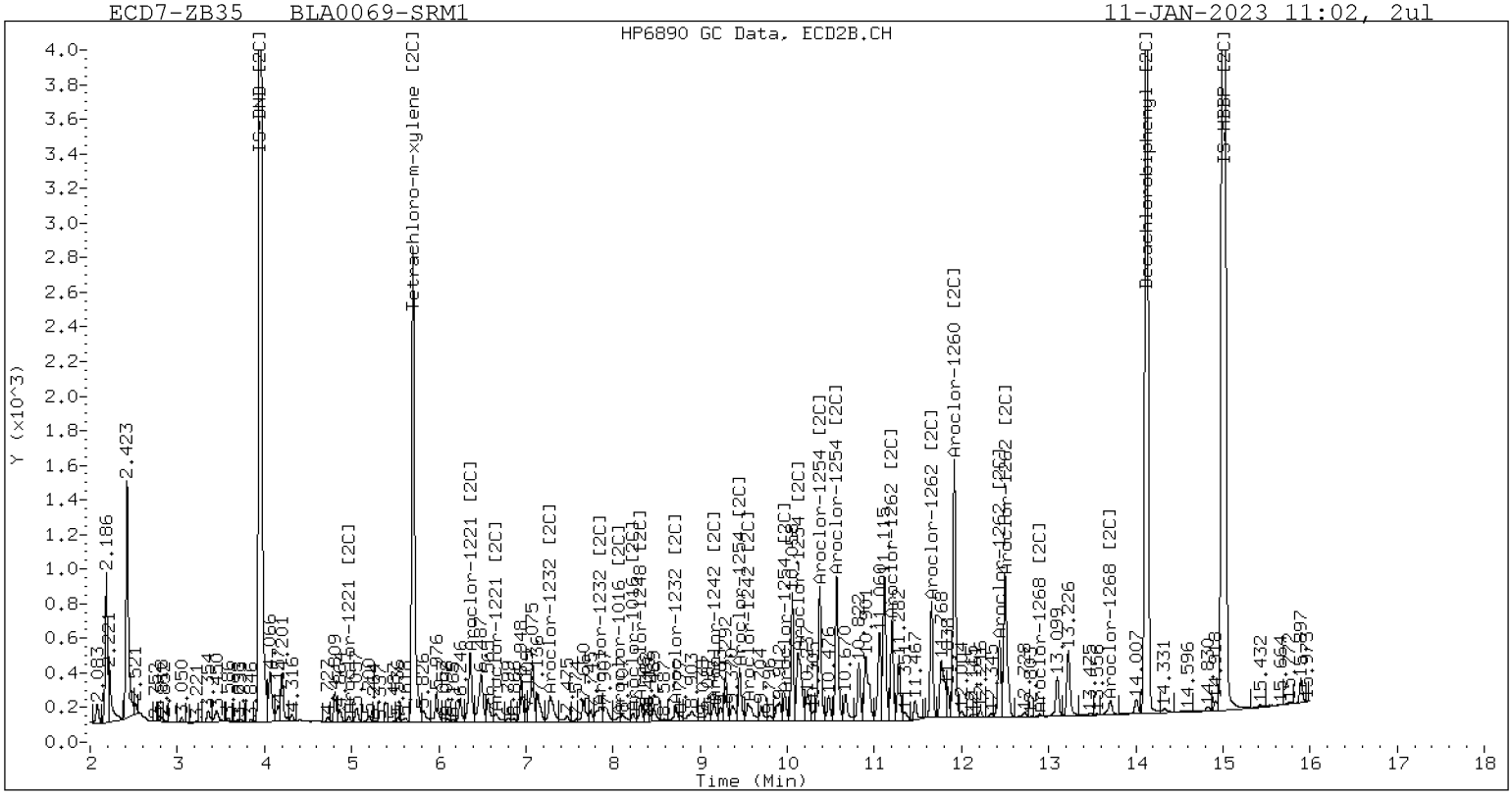
PCB Dual Column Chromatograms

ECD7-ZB5 BLA0069-SRM1 11-JAN-2023 11:02, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLA0069-SRM1 11-JAN-2023 11:02, 2ul



ZB-35 Manual Integration: NO

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1016	250	4.442913E-02	20	4.639571E-02	50	4.556147E-02	1000	3.903737E-02	100	4.740063E-02	500	4.233908E-02
Aroclor-1016 (1)	250	0.0268956	20	2.831682E-02	50	2.733211E-02	1000	2.312039E-02	100	2.907079E-02	500	2.538029E-02
Aroclor-1016 (2)	250	8.716121E-02	20	8.901322E-02	50	8.663465E-02	1000	7.848829E-02	100	9.099677E-02	500	8.464895E-02
Aroclor-1016 (3)	250	3.855698E-02	20	4.367479E-02	50	4.254251E-02	1000	3.139182E-02	100	4.326795E-02	500	3.482108E-02
Aroclor-1016 (4)	250	2.510275E-02	20	2.457802E-02	50	2.573659E-02	1000	2.314899E-02	100	2.626702E-02	500	2.450599E-02
Aroclor 1260	250	3.933402E-02	20	3.911434E-02	50	3.944532E-02	1000	3.674839E-02	100	4.123393E-02	500	3.832917E-02
Aroclor-1260 (1)	250	2.958395E-02	20	0.0300145	50	2.965004E-02	1000	0.0267287	100	3.044201E-02	500	2.830143E-02
Aroclor-1260 (2)	250	3.061257E-02	20	3.036959E-02	50	3.047228E-02	1000	2.827023E-02	100	0.0314491	500	2.953467E-02
Aroclor-1260 (3)	250	7.944504E-02	20	7.975557E-02	50	8.046888E-02	1000	7.412282E-02	100	8.422959E-02	500	7.678876E-02
Aroclor-1260 (4)	250	4.058671E-02	20	3.908843E-02	50	3.991468E-02	1000	3.908356E-02	100	4.249747E-02	500	4.063095E-02
Aroclor-1260 (5)	250	1.644185E-02	20	1.634363E-02	50	1.672073E-02	1000	1.553661E-02	100	1.755145E-02	500	1.639006E-02
Decachlorobiphenyl	40	0.7065182	3.2	0.8368252	8	0.7533014	160	0.6637701	16	0.7576822	80	0.6818994
Tetrachlorometaxylene	40	1.143098	3.2	1.157321	8	1.126881	160	1.081522	16	1.184437	80	1.108767

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221							250	1.504683E-02				
Aroclor-1221 (1)							250	6.613213E-03				
Aroclor-1221 (2)							250	1.165022E-02				
Aroclor-1221 (3)							250	2.687706E-02				
Aroclor 1232									250	0.0165403		
Aroclor-1232 (1)									250	3.980209E-03		
Aroclor-1232 (2)									250	8.407005E-03		
Aroclor-1232 (3)									250	3.775546E-02		
Aroclor-1232 (4)									250	1.601853E-02		
Aroclor 1242	250	3.960003E-02										
Aroclor-1242 (1)	250	2.267549E-02										
Aroclor-1242 (2)	250	0.0719967										
Aroclor-1242 (3)	250	2.071466E-02										
Aroclor-1242 (4)	250	4.301325E-02										
Aroclor 1248			250	4.900615E-02								
Aroclor-1248 (1)			250	3.439698E-02								
Aroclor-1248 (2)			250	4.391715E-02								
Aroclor-1248 (3)			250	7.900514E-02								
Aroclor-1248 (4)			250	3.870534E-02								
Aroclor 1254					250	5.769652E-02						
Aroclor-1254 (1)					250	7.043771E-02						
Aroclor-1254 (2)					250	2.739345E-02						
Aroclor-1254 (3)					250	4.448852E-02						
Aroclor-1254 (4)					250	8.671846E-02						
Aroclor-1254 (5)					250	5.944443E-02						
Aroclor 1262							250	3.710383E-02				
Aroclor-1262 (1)							250	2.675294E-02				
Aroclor-1262 (2)							250	4.159274E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3)							250	4.441976E-02				
Aroclor-1262 (4)							250	0.0356499				
Aroclor 1268									250	0.1462909		
Aroclor-1268 (1)									250	0.1119264		
Aroclor-1268 (2)									250	0.1094959		
Aroclor-1268 (3)									250	8.974437E-02		
Aroclor-1268 (4)									250	0.2739969		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016	0.0441939	6.9			RSD (20)	
Aroclor-1016 (1)	0.026686	8.1			RSD (20)	
Aroclor-1016 (2)	8.615718E-02	5.0			RSD (20)	
Aroclor-1016 (3)	3.904252E-02	13.0			RSD (20)	
Aroclor-1016 (4)	2.488989E-02	4.4			RSD (20)	
Aroclor 1221		0.0			RSD (20)	
Aroclor-1221 (1)		0.0			RSD (20)	
Aroclor-1221 (2)		0.0			RSD (20)	
Aroclor-1221 (3)		0.0			RSD (20)	
Aroclor 1232		0.0			RSD (20)	
Aroclor-1232 (1)		0.0			RSD (20)	
Aroclor-1232 (2)		0.0			RSD (20)	
Aroclor-1232 (3)		0.0			RSD (20)	
Aroclor-1232 (4)		0.0			RSD (20)	
Aroclor 1242		0.0			RSD (20)	
Aroclor-1242 (1)		0.0			RSD (20)	
Aroclor-1242 (2)		0.0			RSD (20)	
Aroclor-1242 (3)		0.0			RSD (20)	
Aroclor-1242 (4)		0.0			RSD (20)	
Aroclor 1248		0.0			RSD (20)	
Aroclor-1248 (1)		0.0			RSD (20)	
Aroclor-1248 (2)		0.0			RSD (20)	
Aroclor-1248 (3)		0.0			RSD (20)	
Aroclor-1248 (4)		0.0			RSD (20)	
Aroclor 1254		0.0			RSD (20)	
Aroclor-1254 (1)		0.0			RSD (20)	
Aroclor-1254 (2)		0.0			RSD (20)	
Aroclor-1254 (3)		0.0			RSD (20)	
Aroclor-1254 (4)		0.0			RSD (20)	
Aroclor-1254 (5)		0.0			RSD (20)	
Aroclor 1260	0.0390342	3.8			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1)	2.912011E-02	4.7			RSD (20)	
Aroclor-1260 (2)	3.011807E-02	3.6			RSD (20)	
Aroclor-1260 (3)	7.913511E-02	4.3			RSD (20)	
Aroclor-1260 (4)	0.0403003	3.2			RSD (20)	
Aroclor-1260 (5)	1.649739E-02	3.9			RSD (20)	
Aroclor 1262		0.0			RSD (20)	
Aroclor-1262 (1)		0.0			RSD (20)	
Aroclor-1262 (2)		0.0			RSD (20)	
Aroclor-1262 (3)		0.0			RSD (20)	
Aroclor-1262 (4)		0.0			RSD (20)	
Aroclor 1268		0.0			RSD (20)	
Aroclor-1268 (1)		0.0			RSD (20)	
Aroclor-1268 (2)		0.0			RSD (20)	
Aroclor-1268 (3)		0.0			RSD (20)	
Aroclor-1268 (4)		0.0			RSD (20)	
Decachlorobiphenyl	0.7333327	8.6			RSD (20)	
Tetrachlorometaxylene	1.133671	3.2			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1016 [2C]	250	4.636996E-02	20	4.892746E-02	50	4.983417E-02	1000	4.130781E-02	100	4.955636E-02	500	4.439044E-02
Aroclor-1016 (1) [2C]	250	4.084306E-02	20	4.420829E-02	50	4.265547E-02	1000	3.510686E-02	100	0.0443387	500	3.826546E-02
Aroclor-1016 (2) [2C]	250	8.779336E-02	20	9.126619E-02	50	9.396419E-02	1000	7.840925E-02	100	9.357078E-02	500	8.428834E-02
Aroclor-1016 (3) [2C]	250	3.650991E-02	20	4.176802E-02	50	4.245186E-02	1000	3.207576E-02	100	3.977512E-02	500	3.472696E-02
Aroclor-1016 (4) [2C]	250	2.033353E-02	20	1.846735E-02	50	2.026517E-02	1000	1.963937E-02	100	2.054085E-02	500	0.020281
Aroclor 1260 [2C]	250	6.221729E-02	20	0.0650374	50	6.381838E-02	1000	5.557609E-02	100	6.547338E-02	500	5.844879E-02
Aroclor-1260 (1) [2C]	250	4.226259E-02	20	4.530508E-02	50	4.502141E-02	1000	3.753653E-02	100	0.0443443	500	3.890007E-02
Aroclor-1260 (2) [2C]	250	0.1084108	20	0.1102753	50	0.109287	1000	9.364812E-02	100	0.1132315	500	0.1009332
Aroclor-1260 (3) [2C]	250	0.0279644	20	2.937953E-02	50	2.834399E-02	1000	2.696653E-02	100	2.956699E-02	500	2.708248E-02
Aroclor-1260 (4) [2C]	250	7.023139E-02	20	7.518967E-02	50	7.262117E-02	1000	0.0641532	100	0.0747507	500	6.687944E-02
Decachlorobiphenyl [2C]	40	1.127762	3.2	1.199521	8	1.131904	160	1.086775	16	1.175985	80	1.092964
Tetrachlorometaxylene [2C]	40	1.103254	3.2	1.151553	8	1.074022	160	1.032691	16	1.152616	80	1.06551

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221 [2C]							250	0.0137578				
Aroclor-1221 (1) [2C]							250	6.751325E-03				
Aroclor-1221 (2) [2C]							250	1.286764E-02				
Aroclor-1221 (3) [2C]							250	2.165445E-02				
Aroclor 1232 [2C]									250	1.828151E-02		
Aroclor-1232 (1) [2C]									250	3.890243E-03		
Aroclor-1232 (2) [2C]									250	1.986677E-02		
Aroclor-1232 (3) [2C]									250	3.883859E-02		
Aroclor-1232 (4) [2C]									250	1.053044E-02		
Aroclor 1242 [2C]	250	3.919814E-02										
Aroclor-1242 (1) [2C]	250	3.385823E-02										
Aroclor-1242 (2) [2C]	250	7.187561E-02										
Aroclor-1242 (3) [2C]	250	2.318837E-02										
Aroclor-1242 (4) [2C]	250	2.787036E-02										
Aroclor 1248 [2C]			250	3.948755E-02								
Aroclor-1248 (1) [2C]			250	3.268192E-02								
Aroclor-1248 (2) [2C]			250	3.437347E-02								
Aroclor-1248 (3) [2C]			250	4.181202E-02								
Aroclor-1248 (4) [2C]			250	0.0490828								
Aroclor 1254 [2C]					250	6.380467E-02						
Aroclor-1254 (1) [2C]					250	5.157979E-02						
Aroclor-1254 (2) [2C]					250	4.146889E-02						
Aroclor-1254 (3) [2C]					250	8.913704E-02						
Aroclor-1254 (4) [2C]					250	0.092314						
Aroclor-1254 (5) [2C]					250	4.452362E-02						
Aroclor 1262 [2C]							250	6.566399E-02				
Aroclor-1262 (1) [2C]							250	6.082829E-02				
Aroclor-1262 (2) [2C]							250	5.268389E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3) [2C]							250	5.811375E-02				
Aroclor-1262 (4) [2C]							250	9.103002E-02				
Aroclor 1268 [2C]									250	0.1941199		
Aroclor-1268 (1) [2C]									250	0.1510112		
Aroclor-1268 (2) [2C]									250	0.1548399		
Aroclor-1268 (3) [2C]									250	5.741847E-02		
Aroclor-1268 (4) [2C]									250	0.4132099		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016 [2C]	4.673103E-02	7.3			RSD (20)	
Aroclor-1016 (1) [2C]	4.090297E-02	8.9			RSD (20)	
Aroclor-1016 (2) [2C]	8.821535E-02	6.9			RSD (20)	
Aroclor-1016 (3) [2C]	0.0378846	10.9			RSD (20)	
Aroclor-1016 (4) [2C]	1.992121E-02	3.9			RSD (20)	
Aroclor 1221 [2C]		0.0			RSD (20)	
Aroclor-1221 (1) [2C]		0.0			RSD (20)	
Aroclor-1221 (2) [2C]		0.0			RSD (20)	
Aroclor-1221 (3) [2C]		0.0			RSD (20)	
Aroclor 1232 [2C]		0.0			RSD (20)	
Aroclor-1232 (1) [2C]		0.0			RSD (20)	
Aroclor-1232 (2) [2C]		0.0			RSD (20)	
Aroclor-1232 (3) [2C]		0.0			RSD (20)	
Aroclor-1232 (4) [2C]		0.0			RSD (20)	
Aroclor 1242 [2C]		0.0			RSD (20)	
Aroclor-1242 (1) [2C]		0.0			RSD (20)	
Aroclor-1242 (2) [2C]		0.0			RSD (20)	
Aroclor-1242 (3) [2C]		0.0			RSD (20)	
Aroclor-1242 (4) [2C]		0.0			RSD (20)	
Aroclor 1248 [2C]		0.0			RSD (20)	
Aroclor-1248 (1) [2C]		0.0			RSD (20)	
Aroclor-1248 (2) [2C]		0.0			RSD (20)	
Aroclor-1248 (3) [2C]		0.0			RSD (20)	
Aroclor-1248 (4) [2C]		0.0			RSD (20)	
Aroclor 1254 [2C]		0.0			RSD (20)	
Aroclor-1254 (1) [2C]		0.0			RSD (20)	
Aroclor-1254 (2) [2C]		0.0			RSD (20)	
Aroclor-1254 (3) [2C]		0.0			RSD (20)	
Aroclor-1254 (4) [2C]		0.0			RSD (20)	
Aroclor-1254 (5) [2C]		0.0			RSD (20)	
Aroclor 1260 [2C]	6.176189E-02	6.4			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1) [2C]	4.222833E-02	7.8			RSD (20)	
Aroclor-1260 (2) [2C]	0.1059643	6.9			RSD (20)	
Aroclor-1260 (3) [2C]	2.821732E-02	3.9			RSD (20)	
Aroclor-1260 (4) [2C]	7.063759E-02	6.3			RSD (20)	
Aroclor 1262 [2C]		0.0			RSD (20)	
Aroclor-1262 (1) [2C]		0.0			RSD (20)	
Aroclor-1262 (2) [2C]		0.0			RSD (20)	
Aroclor-1262 (3) [2C]		0.0			RSD (20)	
Aroclor-1262 (4) [2C]		0.0			RSD (20)	
Aroclor 1268 [2C]		0.0			RSD (20)	
Aroclor-1268 (1) [2C]		0.0			RSD (20)	
Aroclor-1268 (2) [2C]		0.0			RSD (20)	
Aroclor-1268 (3) [2C]		0.0			RSD (20)	
Aroclor-1268 (4) [2C]		0.0			RSD (20)	
Decachlorobiphenyl [2C]	1.135818	3.9			RSD (20)	
Tetrachlorometaxylene [2C]	1.096608	4.4			RSD (20)	

ANALYSIS SEQUENCE

SKL0048

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0048-CAL1	0.25PPM AR1660	QC		1	K006954	K006953		
SKL0048-CAL2	0.02PPM AR1660	QC		2	K010070	K006953		
SKL0048-CAL3	0.05PPM AR1660	QC		3	K010069	K006953		
SKL0048-CAL4	1PPM AR1660	QC		4	K006741	K006953		
SKL0048-CAL5	0.1PPM AR1660	QC		5	K010068	K006953		
SKL0048-CAL6	0.5PPM AR1660	QC		6	K010067	K006953		
SKL0048-CAL7	0.25PPM AR1242	QC		7	K006955	K006953		
SKL0048-CAL8	0.25PPM AR1248	QC		8	K006956	K006953		
SKL0048-CAL9	0.25PPM AR1254	QC		9	K006957	K006953		
SKL0048-CALA	0.25PPM AR2162	QC		10	K010071	K006953		
SKL0048-CALB	0.25PPM AR3268	QC		11	K010072	K006953		
SKL0048-SCV1	AR1660SCV1	QC		12	K007655	K006953		
SKL0048-SCV2	AR1242SCV2	QC		13	K007656	K006953		
SKL0048-SCV3	AR1248SCV3	QC		14	K007657	K006953		
SKL0048-SCV4	AR1254SCV4	QC		15	K007658	K006953		
SKL0048-SCV5	AR2162SCV5	QC		16	K007659	K006953		
SKL0048-SCV6	AR3268SCV6	QC		17	K007660	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-DEC-2022 17:58	12032210ECD7.D	1	IB	
2	03-DEC-2022 18:19	12032211ECD7.D	1	0.25PPAR1660	
3	03-DEC-2022 18:40	12032212ECD7.D	1	0.02PPAR1660	
4	03-DEC-2022 19:01	12032213ECD7.D	1	0.05PPAR1660	
5	03-DEC-2022 19:23	12032214ECD7.D	1	1PPMAR1660	
6	03-DEC-2022 19:44	12032215ECD7.D	1	0.1PPMAR1660	
7	03-DEC-2022 20:05	12032216ECD7.D	1	0.5PPMAR1660	
8	03-DEC-2022 20:26	12032217ECD7.D	1	AR1242	
9	03-DEC-2022 20:48	12032218ECD7.D	1	AR1248	
10	03-DEC-2022 21:09	12032219ECD7.D	1	AR1254	
11	03-DEC-2022 21:30	12032220ECD7.D	1	AR2162	
12	03-DEC-2022 21:52	12032221ECD7.D	1	AR3268	
13	03-DEC-2022 22:13	12032222ECD7.D	1	AR1660SCV1	
14	03-DEC-2022 22:34	12032223ECD7.D	1	AR1242SCV2	
15	03-DEC-2022 22:55	12032224ECD7.D	1	AR1248SCV3	
16	03-DEC-2022 23:17	12032225ECD7.D	1	AR1254SCV4	
17	03-DEC-2022 23:38	12032226ECD7.D	1	AR2162SCV5	
18	03-DEC-2022 23:59	12032227ECD7.D	1	AR3268SCV6	
19	04-DEC-2022 00:20	12032228ECD7.D	1	0.1 PPM DDTS	
20	04-DEC-2022 00:42	12032229ECD7.D	1	DDT BD	
21	04-DEC-2022 01:03	12032230ECD7.D	1	AR1254ICV1	
22	04-DEC-2022 01:24	12032231ECD7.D	1	AR1660ICV2	
23	04-DEC-2022 01:46	12032232ECD7.D	1	BKK0834-BLK1	
24	04-DEC-2022 02:07	12032233ECD7.D	1	BKK0834-BS1	
25	04-DEC-2022 02:28	12032234ECD7.D	1	BKK0834-BSD1	
26	04-DEC-2022 02:49	12032235ECD7.D	1	22K0523-01	
27	04-DEC-2022 03:11	12032236ECD7.D	1	22K0525-01	
28	04-DEC-2022 03:32	12032237ECD7.D	1	BKK0374-BLK1	
29	04-DEC-2022 03:53	12032238ECD7.D	1	BKK0374-BS1	
30	04-DEC-2022 04:15	12032239ECD7.D	1	BKK0374-BSD1	
31	04-DEC-2022 04:36	12032240ECD7.D	1	22K0161-01	
32	04-DEC-2022 04:57	12032241ECD7.D	1	AR1248CCV1	
33	04-DEC-2022 05:18	12032242ECD7.D	1	AR1660CCV2	
34	04-DEC-2022 05:40	12032243ECD7.D	1	BKL0017-BLK1	
35	04-DEC-2022 06:01	12032244ECD7.D	1	BKL0017-BS1	
36	04-DEC-2022 06:22	12032245ECD7.D	1	BKL0017-BSD1	
37	04-DEC-2022 06:44	12032246ECD7.D	1	22J0139-01	
38	04-DEC-2022 07:05	12032247ECD7.D	1	BKK0383-BLK1	
39	04-DEC-2022 07:26	12032248ECD7.D	1	BKK0383-BS1	
40	04-DEC-2022 07:47	12032249ECD7.D	1	BKK0383-BSD	
41	04-DEC-2022 08:09	12032250ECD7.D	1	22K0075-01	
42	04-DEC-2022 08:30	12032251ECD7.D	1	BKK00803-BLK1	
43	04-DEC-2022 08:51	12032252ECD7.D	1	BKK00803-BS1	
44	04-DEC-2022 09:13	12032253ECD7.D	1	BKK00803-BSD1	
45	04-DEC-2022 09:34	12032254ECD7.D	1	22K0511-01	
46	04-DEC-2022 09:55	12032255ECD7.D	1	AR1242CCV3	
47	04-DEC-2022 10:17	12032256ECD7.D	1	AR1660CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1758	12032210ECD7.D	IB	1	NO MANUAL INTEGRATION
1819	12032211ECD7.D	0.25PPAR1660	1	NO MANUAL INTEGRATION
1840	12032212ECD7.D	0.02PPAR1660	1	NO MANUAL INTEGRATION
1901	12032213ECD7.D	0.05PPAR1660	1	NO MANUAL INTEGRATION
1923	12032214ECD7.D	1PPMAR1660	1	NO MANUAL INTEGRATION
1944	12032215ECD7.D	0.1PPMAR1660	1	NO MANUAL INTEGRATION
2005	12032216ECD7.D	0.5PPMAR1660	1	NO MANUAL INTEGRATION
2026	12032217ECD7.D	AR1242	1	Aroclor-1242,
2048	12032218ECD7.D	AR1248	1	NO MANUAL INTEGRATION
2109	12032219ECD7.D	AR1254	1	NO MANUAL INTEGRATION
2130	12032220ECD7.D	AR2162	1	NO MANUAL INTEGRATION
2152	12032221ECD7.D	AR3268	1	NO MANUAL INTEGRATION
2213	12032222ECD7.D	AR1660SCV1	1	NO MANUAL INTEGRATION
2234	12032223ECD7.D	AR1242SCV2	1	NO MANUAL INTEGRATION
2255	12032224ECD7.D	AR1248SCV3	1	NO MANUAL INTEGRATION
2317	12032225ECD7.D	AR1254SCV4	1	NO MANUAL INTEGRATION
2338	12032226ECD7.D	AR2162SCV5	1	NO MANUAL INTEGRATION

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2359	12032227ECD7.D	AR3268SCV6	1	NO MANUAL INTEGRATION

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032210ECD7.D
Data file 2: /221203.b/221203.b/12032210ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 03-DEC-2022 17:58
Report Date: 12/05/2022 13:27
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	239778	5.713	-0.000	128576	38.5	38.5	0.1	Tetrachloro-m-xylene
13.907	-0.001	273387	14.135	-0.002	193829	39.5	39.9	1.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	439478	-1.8
Hexabromobiphenyl	798898	755658	-5.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	243327	-2.3
Hexabromobiphenyl	362541	342503	-5.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 14711 Col1 Total PCB = 0.0 ppm*

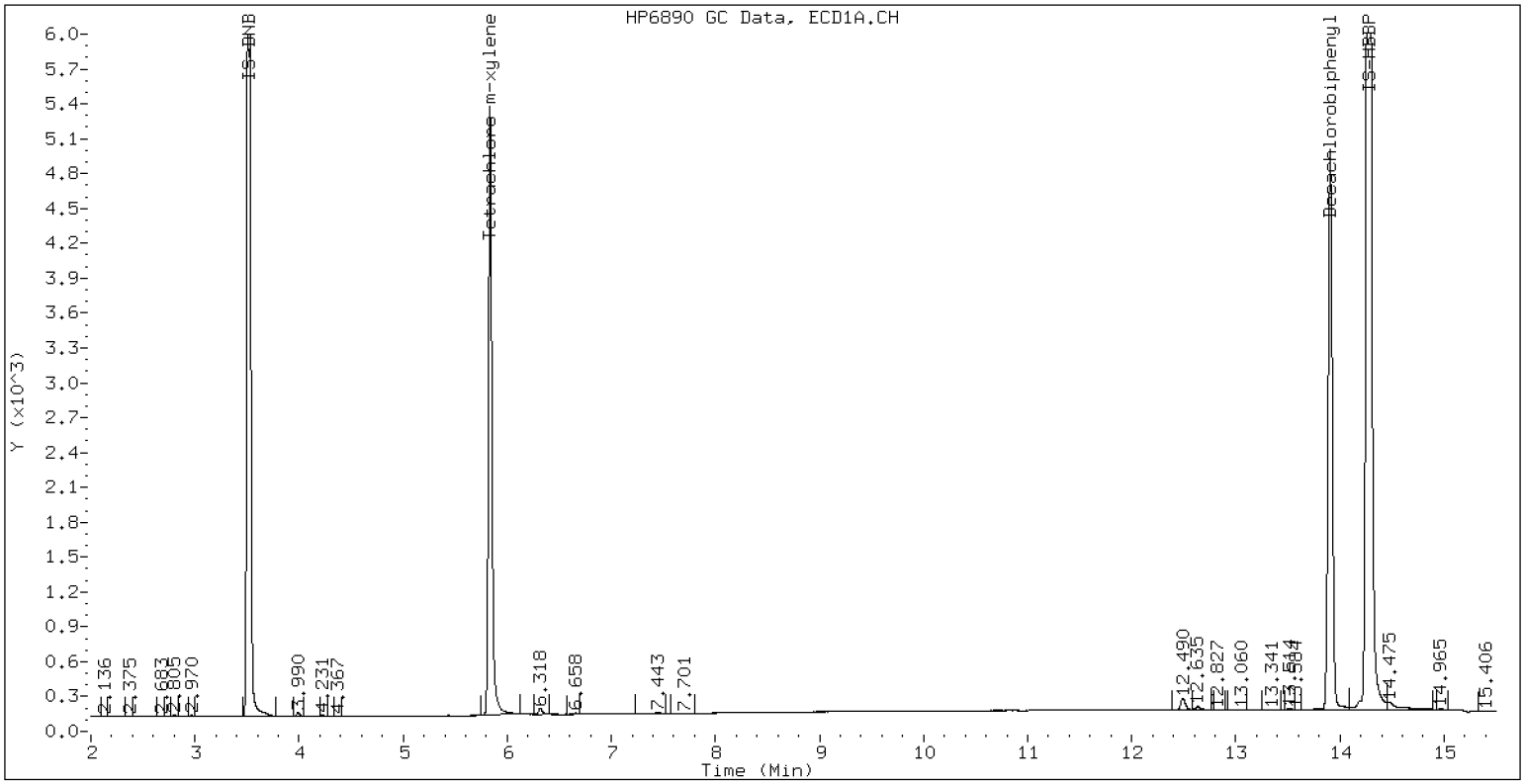
Total PCB Area Col2 (5.936 - 13.808) = 6305 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

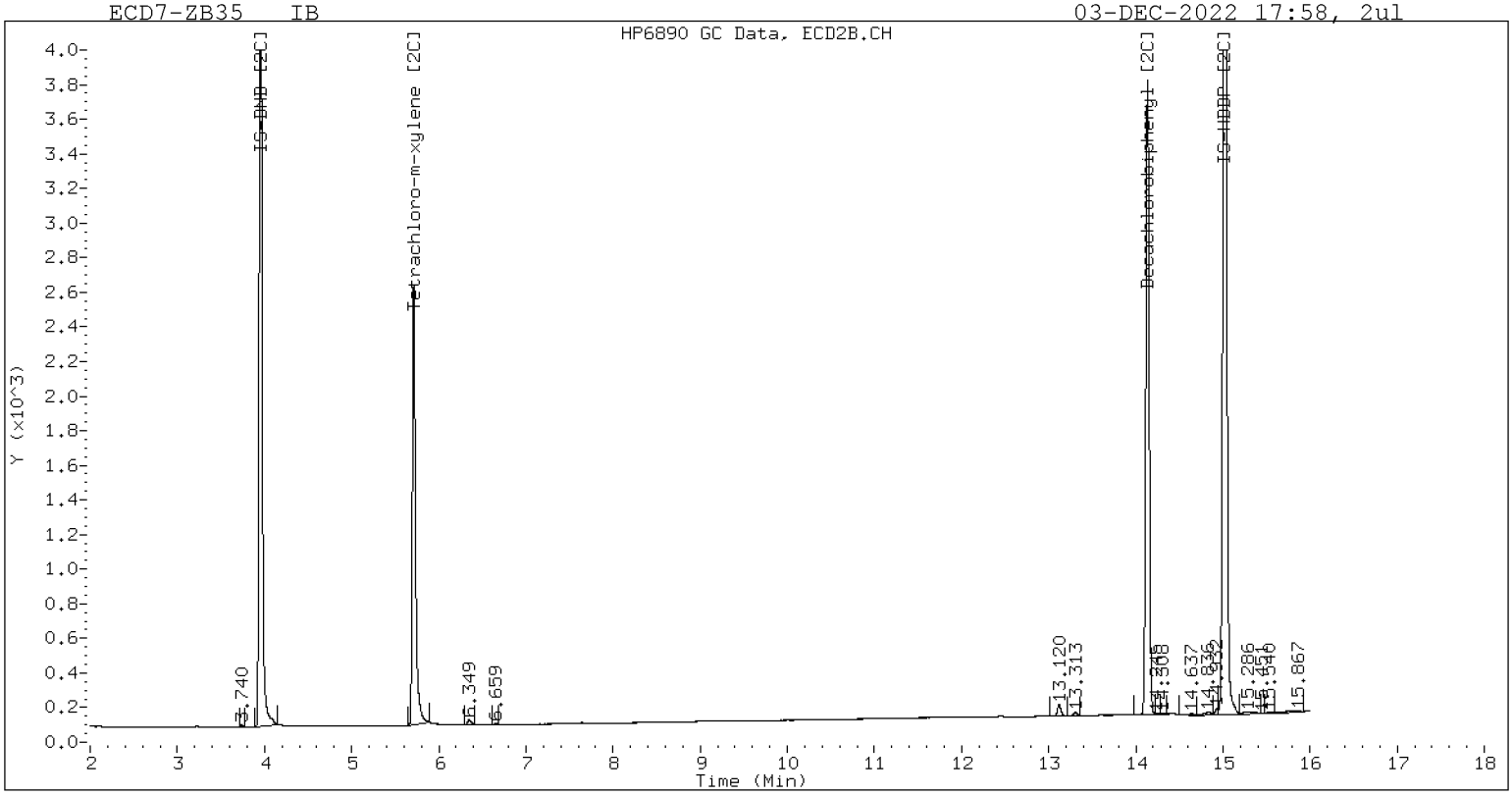
PCB Dual Column Chromatograms

ECD7-ZB5 IB 03-DEC-2022 17:58, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB 03-DEC-2022 17:58, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032211ECD7.D
Data file 2: /221203.b/221203.b/12032211ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPAR1660
Client ID:
Injection Date: 03-DEC-2022 18:19
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	255851	5.713	-0.000	137407	40.3	40.2	0.2	Tetrachloro-m-xylene
13.908	-0.001	282218	14.135	-0.001	204430	38.5	39.7	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	447645	0.0
Hexabromobiphenyl	798898	798898	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	249094	0.0
Hexabromobiphenyl	362541	362541	0.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	37624	252.0	1	7.277	0.002	31793	249.6
Aroclor-1016	2	7.679	0.005	121929	252.9	2	7.873	0.002	68340	248.8
Aroclor-1016	3	7.813	0.003	53937	246.9	3	8.072	0.002	28420	240.9
Aroclor-1016	4	8.426	0.002	35116	252.1	4	8.243	0.002	15828	255.2
Total Col1Ave (4 peaks):					251.0	Total Col2Ave (4 peaks):				248.6 RPD = 1
Corrected Ave (3 peaks):					250.3	Corrected Ave (3 peaks):				246.5 RPD = 2
CalAmt %D:					0.4	CalAmt %D:				-0.5
Aroclor-1260	1	11.062	0.001	73858	254.0	1	11.670	0.001	47881	250.2
Aroclor-1260	2	11.378	0.000	76426	254.1	2	11.933	0.000	122823	255.8
Aroclor-1260	3	11.752	0.002	198339	251.0	3	12.452	0.001	31682	247.8
Aroclor-1260	4	12.156	0.002	101327	251.8	4	12.518	0.001	79568	248.6
Aroclor-1260	5	12.262	0.002	41048	249.2	NS	---			----
Total Col1Ave (5 peaks):					252.0	Total Col2Ave (4 peaks):				250.6 RPD = 1
Corrected Ave (4 peaks):					251.5	Corrected Ave (3 peaks):				248.8 RPD = 1
CalAmt %D:					0.8	CalAmt %D:				0.2

Total PCB Area Col1 (5.936 - 13.808) = 2139467 Col1 Total PCB = 0.4 ppm*

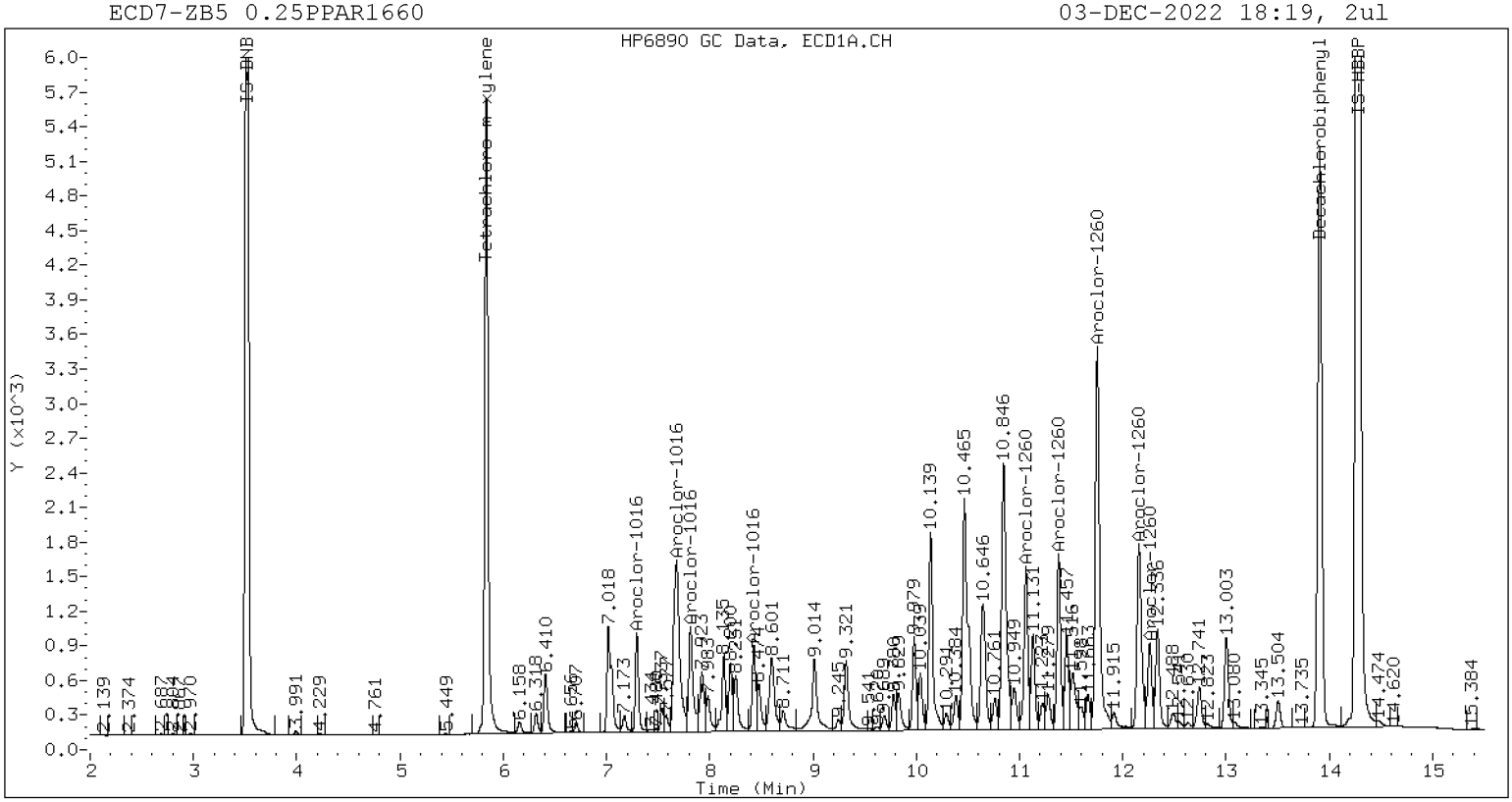
Total PCB Area Col2 (5.936 - 13.808) = 1168134 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

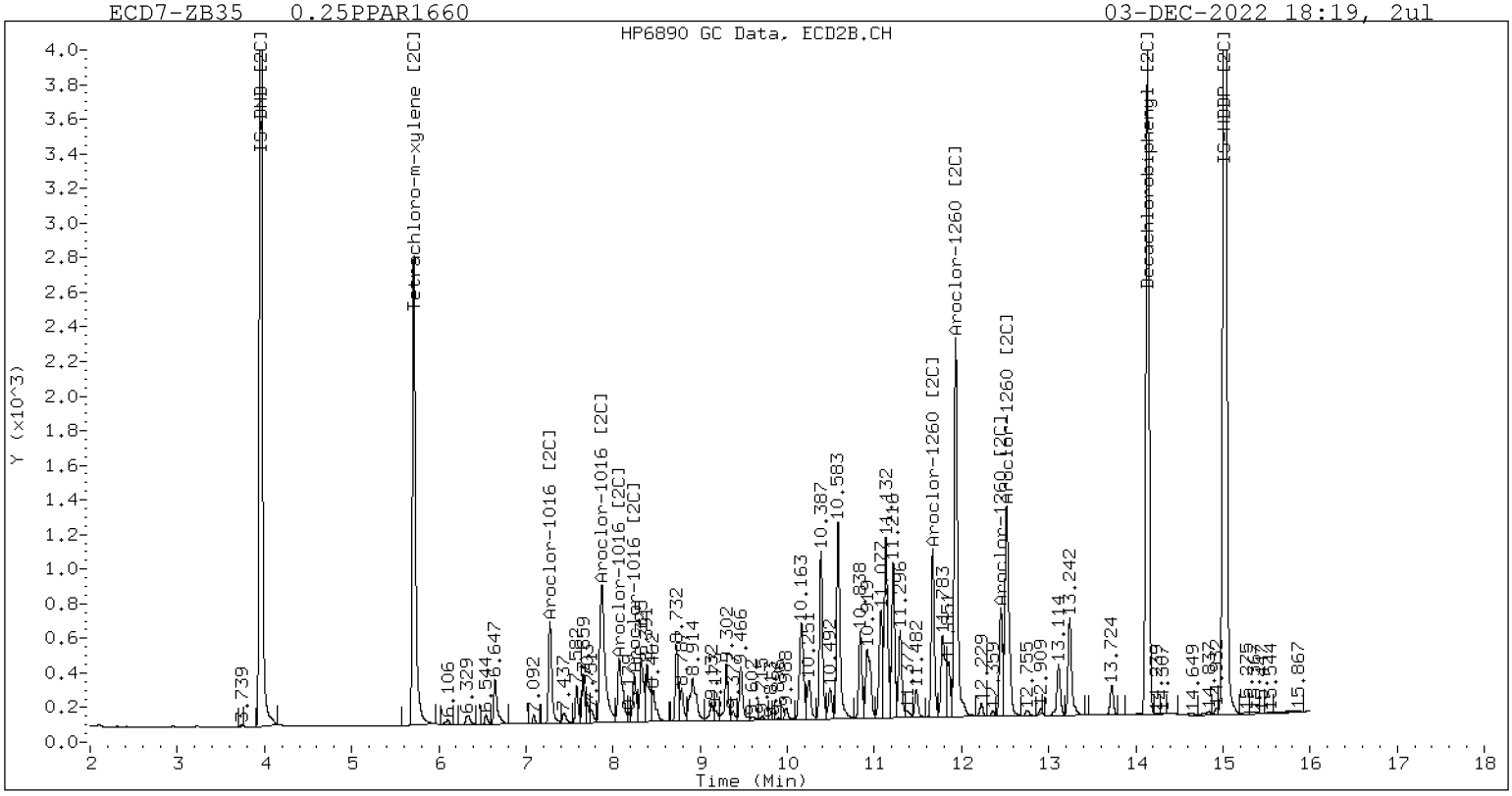
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPAR1660 03-DEC-2022 18:19, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPAR1660 03-DEC-2022 18:19, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032212ECD7.D
Data file 2: /221203.b/221203.b/12032212ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPAR1660
Client ID:
Injection Date: 03-DEC-2022 18:40
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	21148	5.713	-0.000	11703	3.3	3.4	2.8	Tetrachloro-m-xylene
13.907	-0.002	27903	14.135	-0.002	17860	3.7	3.4	7.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	456831	2.1
Hexabromobiphenyl	798898	833597	4.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254070	2.0
Hexabromobiphenyl	362541	372232	2.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.294	0.002	3234	21.2	1	7.276	0.001	2808	21.6
Aroclor-1016	2	7.687	0.013	10166	20.7	2	7.879	0.009	5797	20.7
Aroclor-1016	3	7.819	0.009	4988	22.4	3	8.077	0.007	2653	22.1
Aroclor-1016	4	8.430	0.006	2807	19.7	4	8.249	0.008	1173	18.5
Total Col1Ave (4 peaks):					21.0	Total Col2Ave (4 peaks):				20.7 RPD = 1
Corrected Ave (3 peaks):					20.5	Corrected Ave (3 peaks):				20.3 RPD = 1
CalAmt %D:					5.0	CalAmt %D:				3.6
Aroclor-1260	1	11.066	0.004	6255	20.6	1	11.672	0.003	4216	21.5
Aroclor-1260	2	11.382	0.004	6329	20.2	2	11.937	0.005	10262	20.8
Aroclor-1260	3	11.758	0.008	16621	20.2	3	12.453	0.002	2734	20.8
Aroclor-1260	4	12.162	0.008	8146	19.4	4	12.521	0.004	6997	21.3
Aroclor-1260	5	12.264	0.004	3406	19.8	NS	---			----
Total Col1Ave (5 peaks):					20.0	Total Col2Ave (4 peaks):				21.1 RPD = 5
Corrected Ave (4 peaks):					19.9	Corrected Ave (3 peaks):				21.0 RPD = 5
CalAmt %D:					0.2	CalAmt %D:				5.5

Total PCB Area Col1 (5.936 - 13.808) = 188011 Col1 Total PCB = 0.0 ppm*

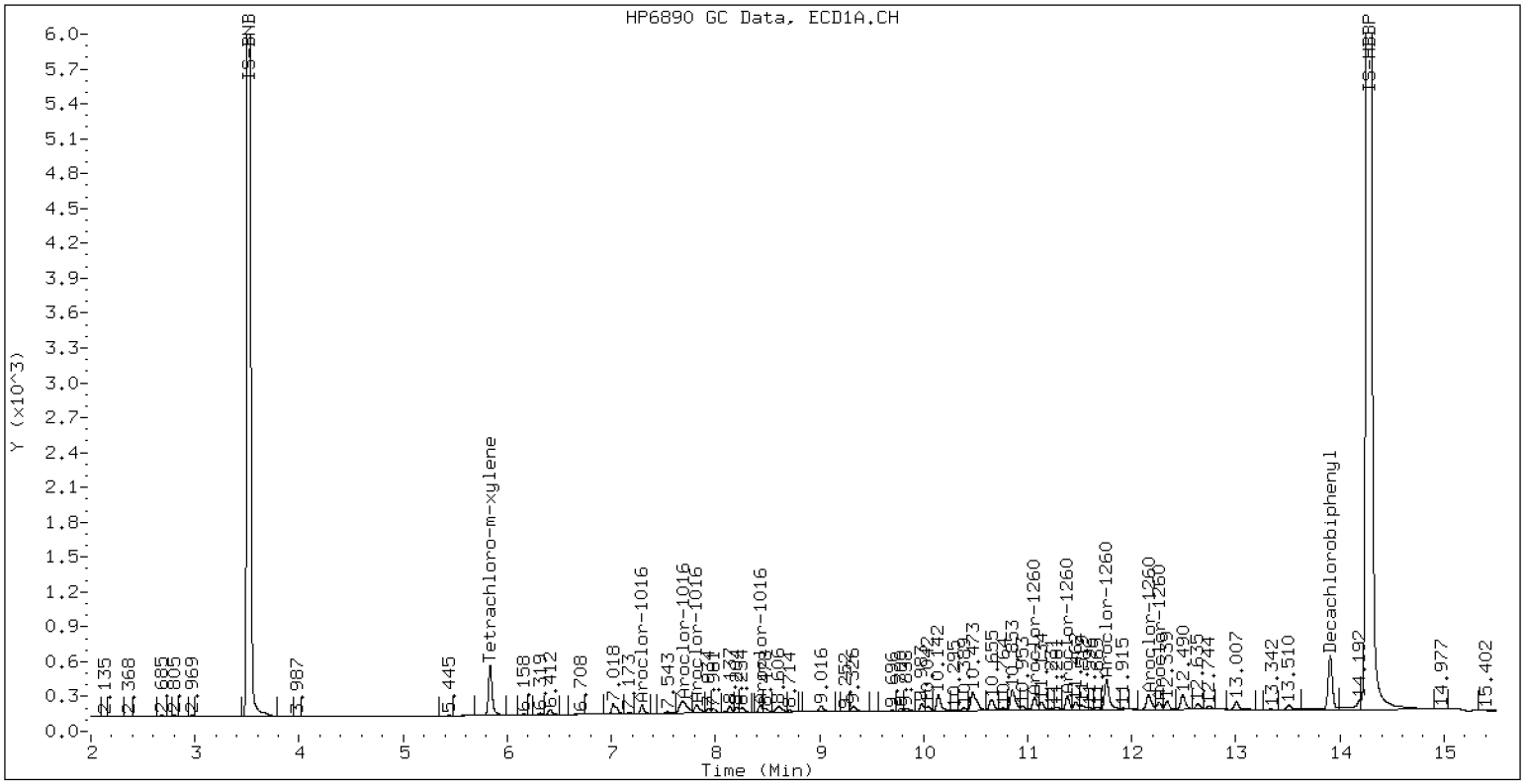
Total PCB Area Col2 (5.936 - 13.808) = 100527 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

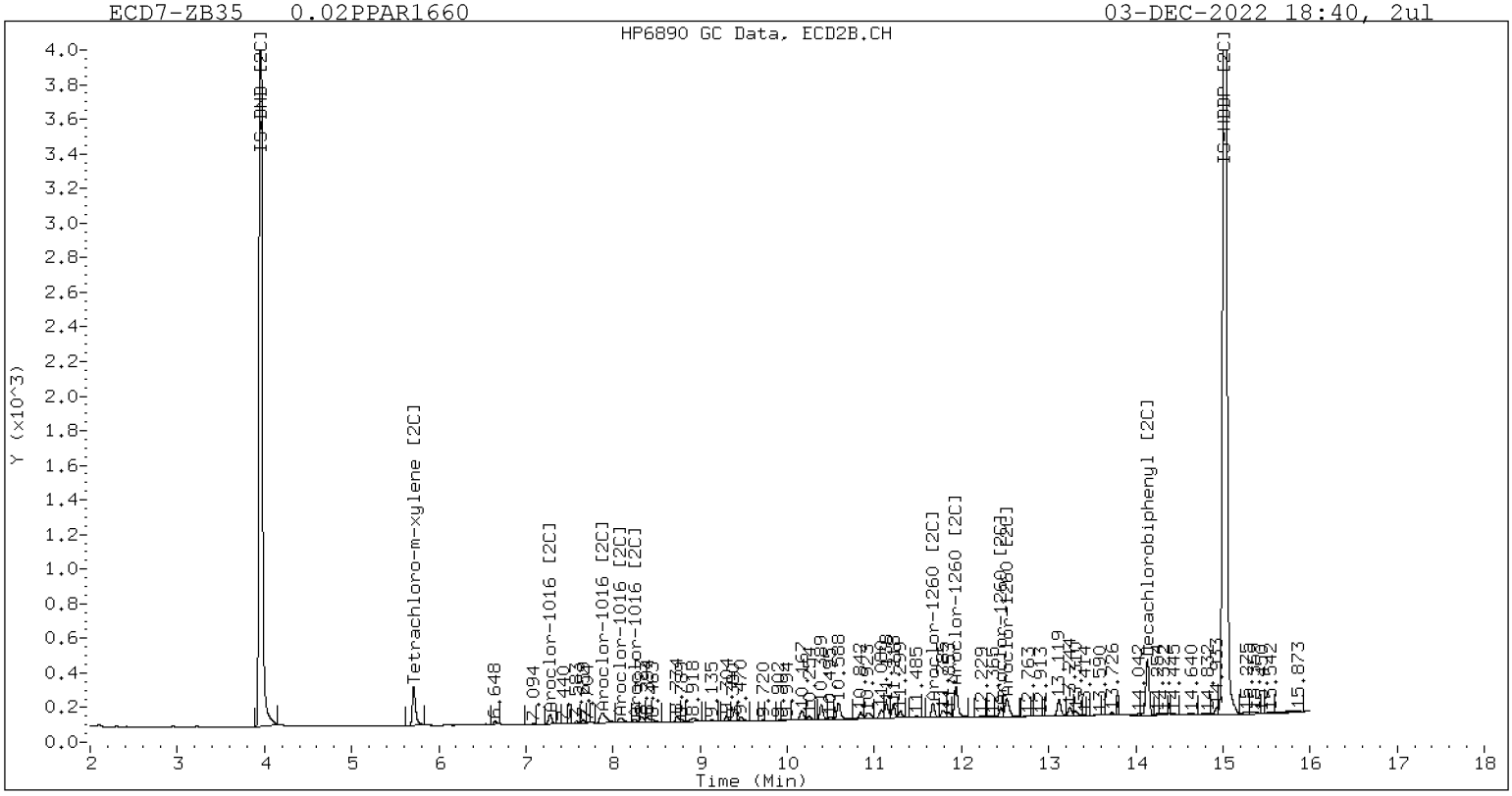
PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPAR1660 03-DEC-2022 18:40, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPAR1660 03-DEC-2022 18:40, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032213ECD7.D
Data file 2: /221203.b/221203.b/12032213ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05PPAR1660
Client ID:
Injection Date: 03-DEC-2022 19:01
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	51078	5.713	-0.000	27008	8.0	7.8	1.5	Tetrachloro-m-xylene
13.907	-0.001	63325	14.137	-0.000	42829	8.2	8.0	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453269	1.3
Hexabromobiphenyl	798898	840633	5.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	251466	1.0
Hexabromobiphenyl	362541	378380	4.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.294	0.002	7743	51.2	1	7.277	0.002	6704	52.1
Aroclor-1016	2	7.686	0.012	24543	50.3	2	7.879	0.008	14768	53.3
Aroclor-1016	3	7.818	0.008	12052	54.5	3	8.078	0.007	6672	56.0
Aroclor-1016	4	8.429	0.005	7291	51.7	4	8.249	0.007	3185	50.9
Total Col1Ave (4 peaks):					51.9	Total Col2Ave (4 peaks):				53.1 RPD = 2
Corrected Ave (3 peaks):					51.1	Corrected Ave (3 peaks):				52.1 RPD = 2
CalAmt %D:					3.8	CalAmt %D:				6.1
Aroclor-1260	1	11.066	0.004	15578	50.9	1	11.673	0.003	10647	53.3
Aroclor-1260	2	11.382	0.005	16010	50.6	2	11.937	0.004	25845	51.6
Aroclor-1260	3	11.757	0.007	42278	50.8	3	12.454	0.002	6703	50.2
Aroclor-1260	4	12.160	0.006	20971	49.5	4	12.520	0.004	17174	51.4
Aroclor-1260	5	12.263	0.004	8785	50.7	NS	---			----
Total Col1Ave (5 peaks):					50.5	Total Col2Ave (4 peaks):				51.6 RPD = 2
Corrected Ave (4 peaks):					50.4	Corrected Ave (3 peaks):				51.1 RPD = 1
CalAmt %D:					1.0	CalAmt %D:				3.3

Total PCB Area Col1 (5.936 - 13.808) = 457627 Col1 Total PCB = 0.1 ppm*

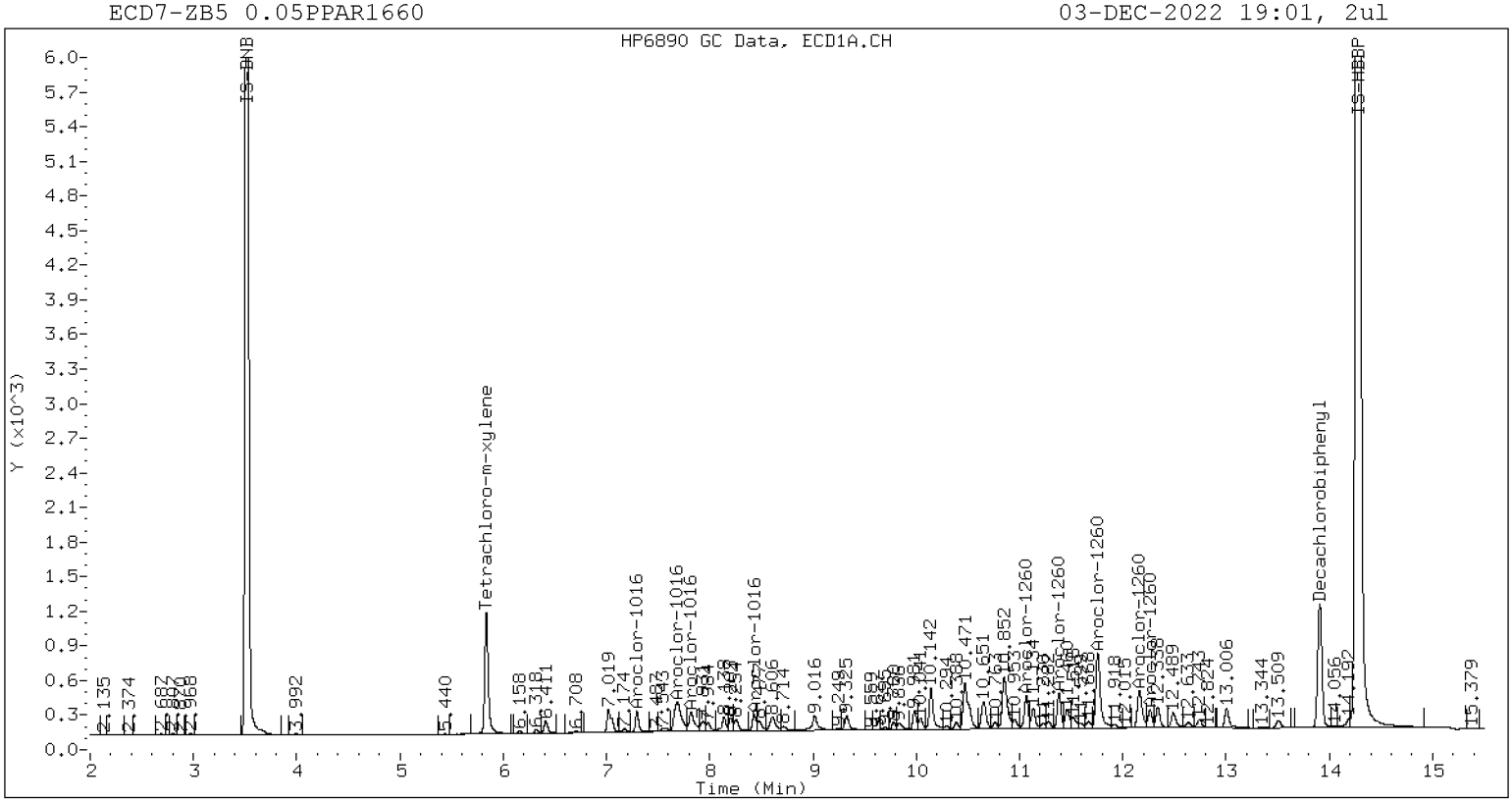
Total PCB Area Col2 (5.936 - 13.808) = 253240 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

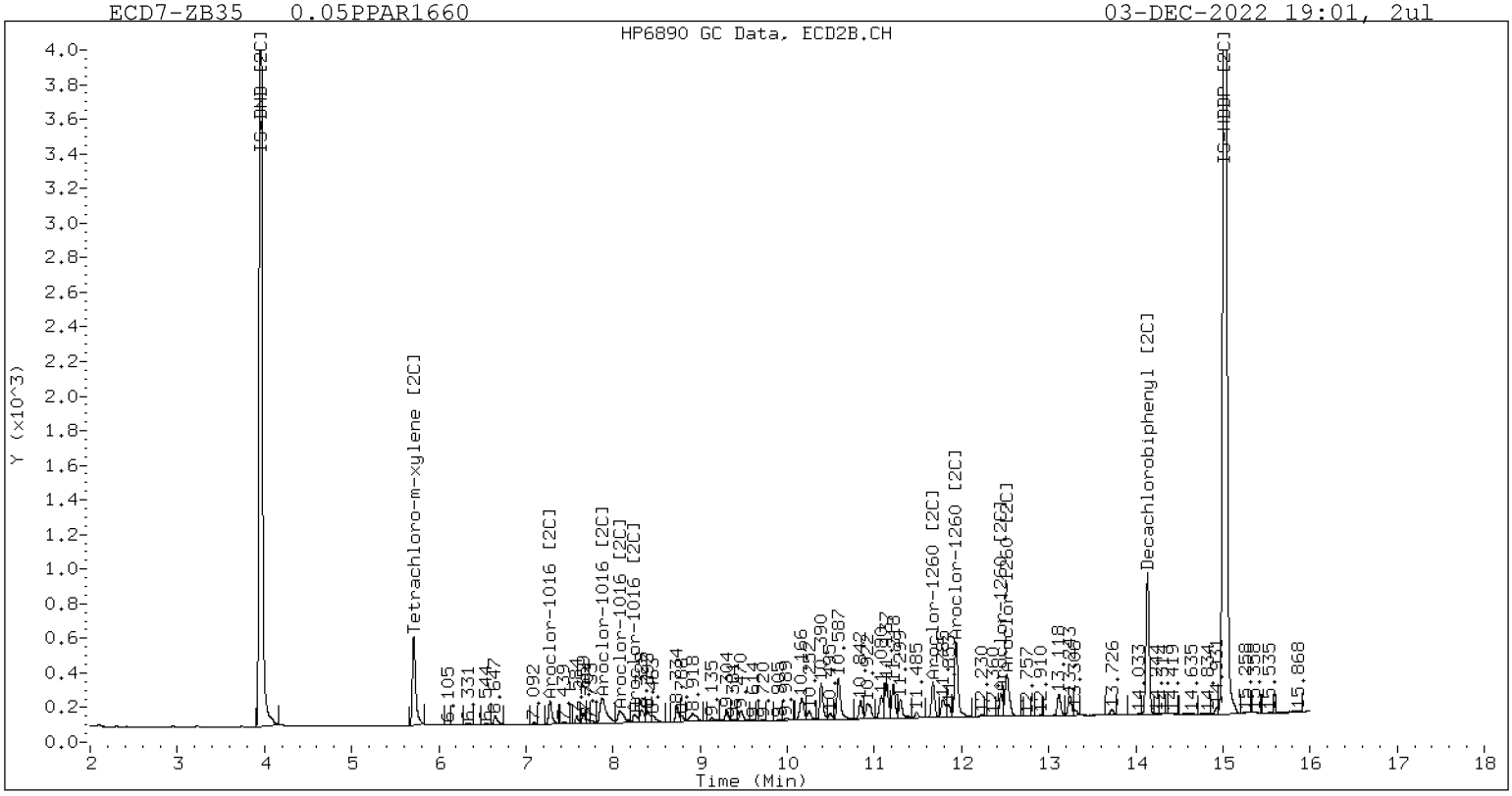
PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPAR1660 03-DEC-2022 19:01, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPAR1660 03-DEC-2022 19:01, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032214ECD7.D
Data file 2: /221203.b/221203.b/12032214ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 1PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 19:23
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	1010529	5.712	-0.002	531708	152.6	150.7	1.3	Tetrachloro-m-xylene
13.908	-0.001	1103073	14.137	-0.000	836962	144.8	153.1	5.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	467179	4.4
Hexabromobiphenyl	798898	830915	4.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257438	3.3
Hexabromobiphenyl	362541	385067	6.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.291	-0.001	135017	866.4	1	7.276	0.001	112973	858.3
Aroclor-1016	2	7.671	-0.003	458351	911.0	2	7.869	-0.001	252319	888.8
Aroclor-1016	3	7.807	-0.003	183320	804.0	3	8.068	-0.002	103219	846.7
Aroclor-1016	4	8.423	-0.001	135184	930.1	4	8.239	-0.002	63199	985.9
Total Col1Ave (4 peaks):					877.9	Total Col2Ave (4 peaks):				894.9 RPD = 2
Corrected Ave (3 peaks):					860.5	Corrected Ave (3 peaks):				864.6 RPD = 0
CalAmt %D:					-12.2	CalAmt %D:				-10.5
Aroclor-1260	1	11.058	-0.003	277616	917.9	1	11.668	-0.002	180676	888.9
Aroclor-1260	2	11.375	-0.002	293627	938.6	2	11.930	-0.002	450760	883.8
Aroclor-1260	3	11.748	-0.002	769872	936.7	3	12.449	-0.002	129799	955.7
Aroclor-1260	4	12.151	-0.003	405939	969.8	4	12.514	-0.002	308791	908.2
Aroclor-1260	5	12.259	-0.001	161370	941.8	NS	---			----
Total Col1Ave (5 peaks):					941.0	Total Col2Ave (4 peaks):				909.1 RPD = 3
Corrected Ave (4 peaks):					933.7	Corrected Ave (3 peaks):				893.6 RPD = 4
CalAmt %D:					-5.9	CalAmt %D:				-9.1

Total PCB Area Col1 (5.936 - 13.808) = 7995465 Col1 Total PCB = 1.5 ppm*

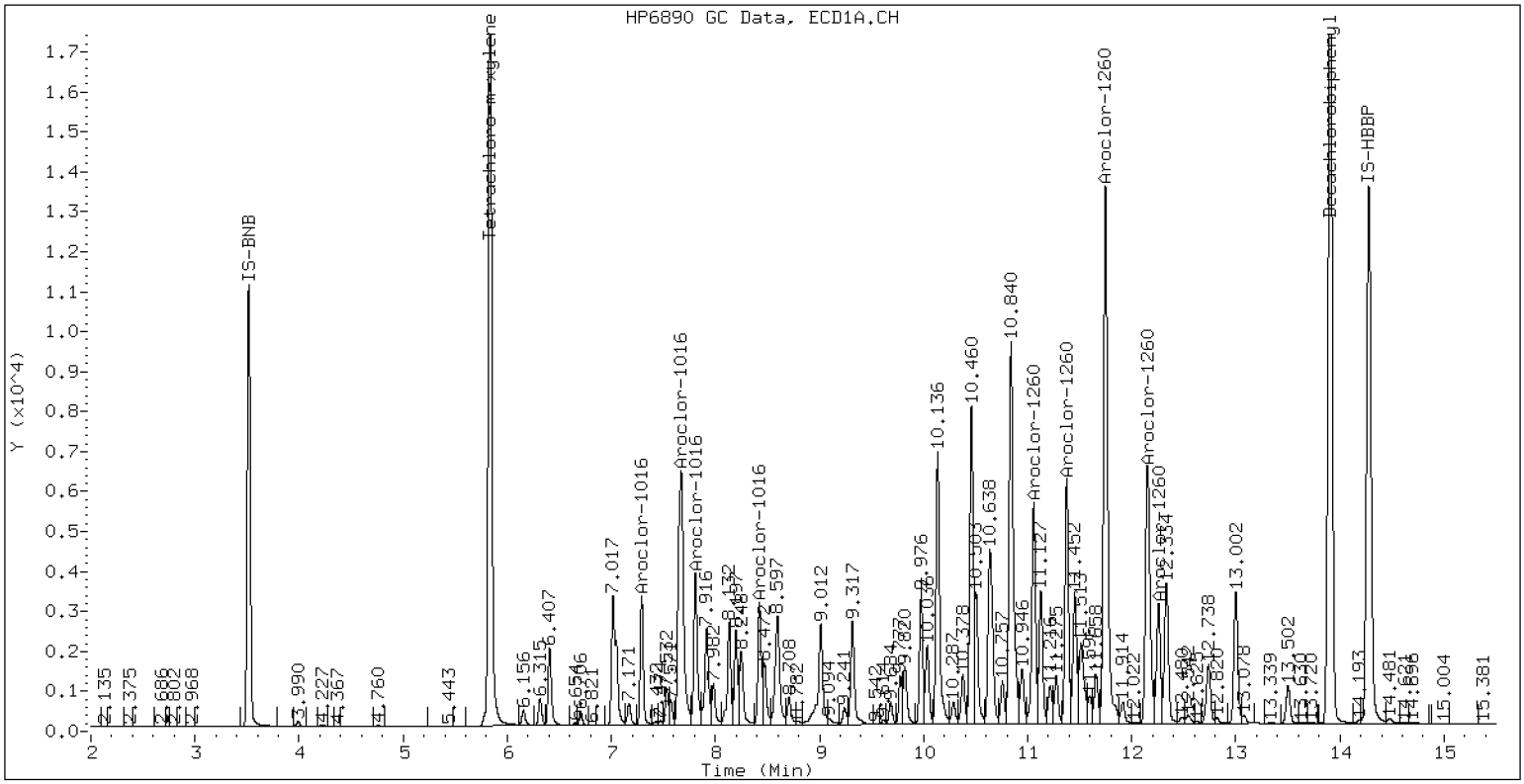
Total PCB Area Col2 (5.936 - 13.808) = 4426537 Col2 Total PCB = 2.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

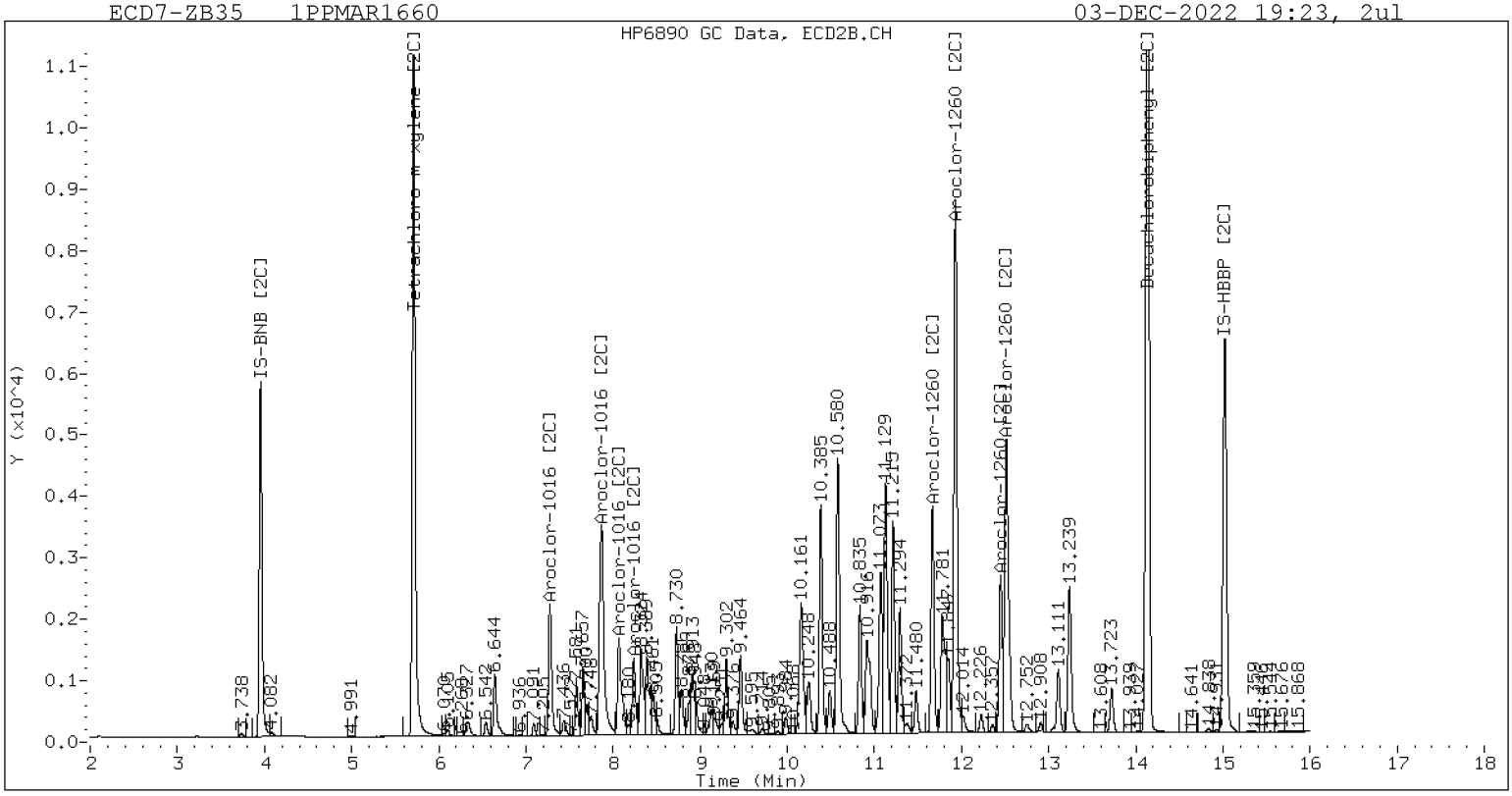
PCB Dual Column Chromatograms

ECD7-ZB5 1PPMAR1660 03-DEC-2022 19:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 1PPMAR1660 03-DEC-2022 19:23, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032215ECD7.D
Data file 2: /221203.b/221203.b/12032215ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 19:44
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	108416	5.713	-0.000	58717	16.7	16.8	0.6	Tetrachloro-m-xylene
13.907	-0.002	126876	14.136	-0.001	91231	16.5	16.6	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	457669	2.2
Hexabromobiphenyl	798898	837264	4.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254712	2.3
Hexabromobiphenyl	362541	387892	7.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	16631	108.9	1	7.277	0.001	14117	108.4
Aroclor-1016	2	7.680	0.007	52058	105.6	2	7.876	0.006	29792	106.1
Aroclor-1016	3	7.816	0.006	24753	110.8	3	8.076	0.005	12664	105.0
Aroclor-1016	4	8.428	0.004	15027	105.5	4	8.247	0.006	6540	103.1
Total Col1Ave (4 peaks):					107.7	Total Col2Ave (4 peaks):				105.6 RPD = 2
Corrected Ave (3 peaks):					106.7	Corrected Ave (3 peaks):				104.7 RPD = 2
CalAmt %D:					7.7	CalAmt %D:				5.6
Aroclor-1260	1	11.064	0.003	31860	104.5	1	11.671	0.002	21501	105.0
Aroclor-1260	2	11.381	0.003	32914	104.4	2	11.935	0.003	54902	106.9
Aroclor-1260	3	11.756	0.006	88153	106.4	3	12.453	0.002	14336	104.8
Aroclor-1260	4	12.159	0.005	44477	105.5	4	12.520	0.004	36244	105.8
Aroclor-1260	5	12.262	0.002	18369	106.4	NS	---			----
Total Col1Ave (5 peaks):					105.4	Total Col2Ave (4 peaks):				105.6 RPD = 0
Corrected Ave (4 peaks):					105.2	Corrected Ave (3 peaks):				105.2 RPD = 0
CalAmt %D:					5.4	CalAmt %D:				5.6

Total PCB Area Col1 (5.936 - 13.808) = 933356 Col1 Total PCB = 0.2 ppm*

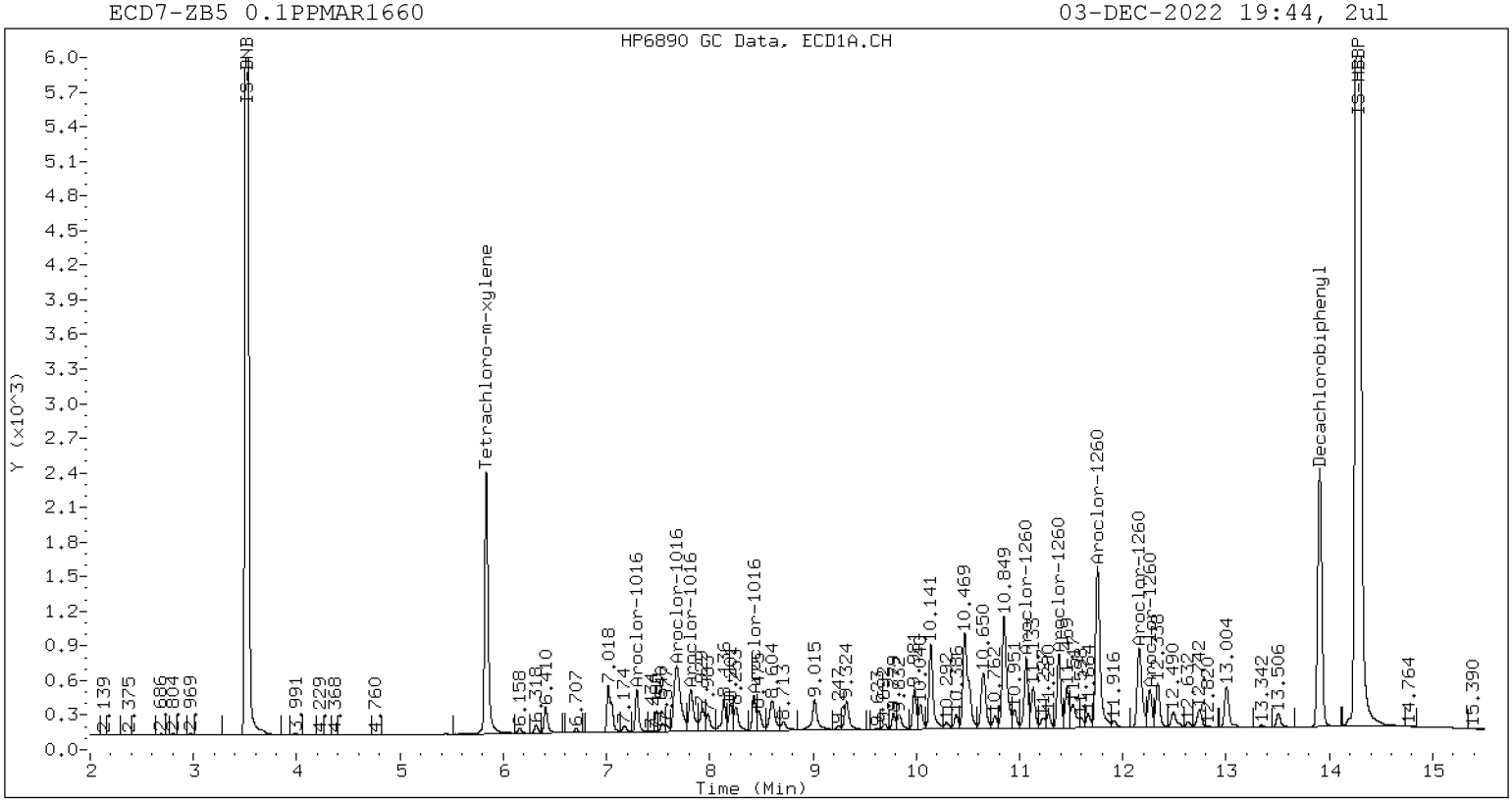
Total PCB Area Col2 (5.936 - 13.808) = 523507 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

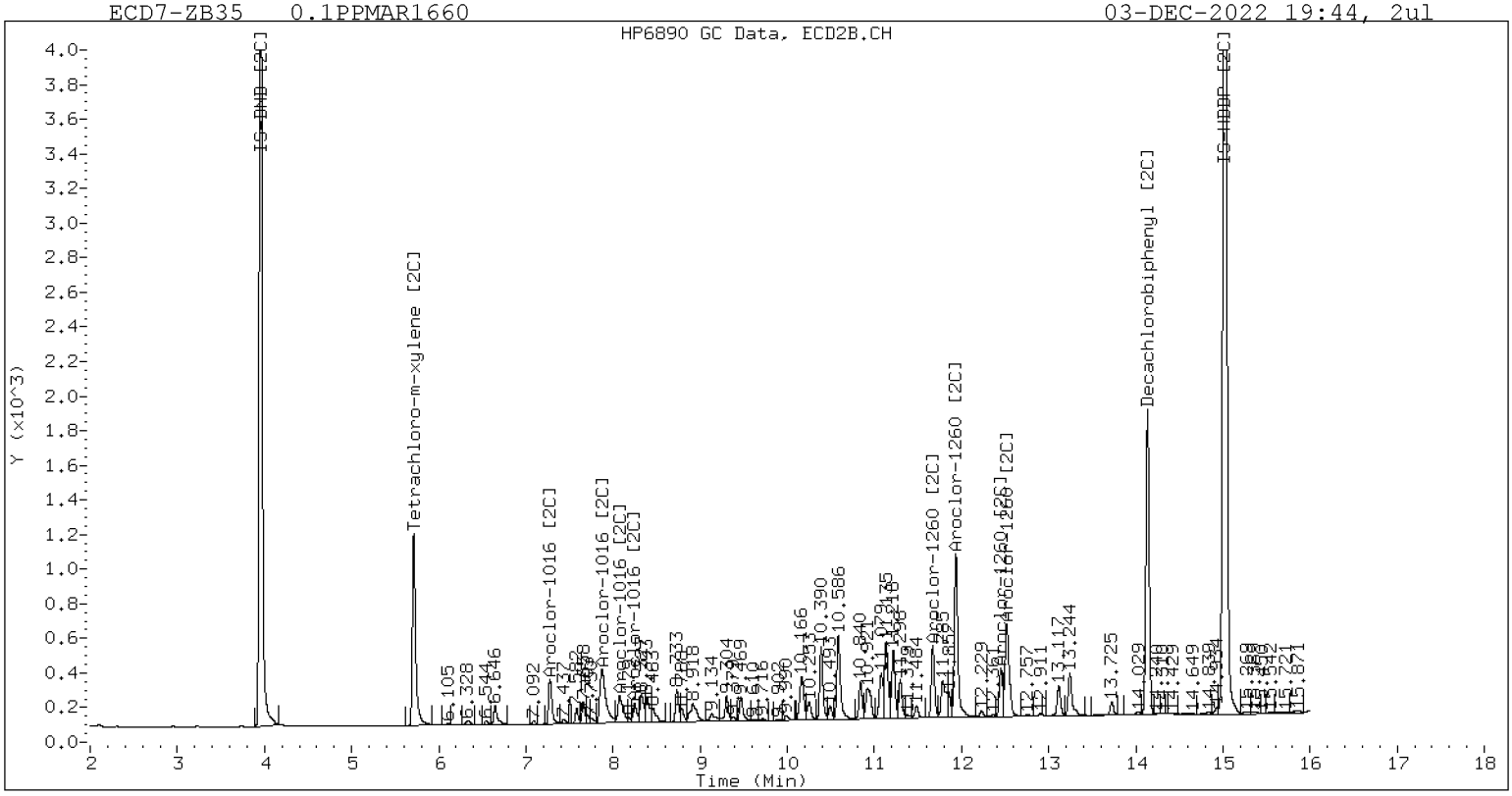
PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660 03-DEC-2022 19:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660 03-DEC-2022 19:44, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032216ECD7.D
Data file 2: /221203.b/221203.b/12032216ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 20:05
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	510310	5.711	-0.002	273850	78.2	77.7	0.7	Tetrachloro-m-xylene
13.908	-0.001	570893	14.137	-0.000	431489	74.4	77.0	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	460250	2.8
Hexabromobiphenyl	798898	837210	4.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257013	3.2
Hexabromobiphenyl	362541	394788	8.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.292	0.000	73008	475.5	1	7.275	0.000	61467	467.8
Aroclor-1016	2	7.674	0.000	243498	491.2	2	7.870	0.000	135395	477.7
Aroclor-1016	3	7.810	0.000	100165	445.9	3	8.070	0.000	55783	458.3
Aroclor-1016	4	8.424	0.000	70493	492.3	4	8.241	0.000	32578	509.0
Total Col1Ave (4 peaks):					476.3	Total Col2Ave (4 peaks):				478.2 RPD = 0
Corrected Ave (3 peaks):					470.9	Corrected Ave (3 peaks):				467.9 RPD = 1
CalAmt %D:					-4.7	CalAmt %D:				-4.4
Aroclor-1260	1	11.062	0.000	148089	485.9	1	11.669	0.000	95983	460.6
Aroclor-1260	2	11.377	0.000	154542	490.3	2	11.933	0.000	249045	476.3
Aroclor-1260	3	11.750	0.000	401802	485.2	3	12.451	0.000	66824	479.9
Aroclor-1260	4	12.154	0.000	212604	504.1	4	12.517	0.000	165020	473.4
Aroclor-1260	5	12.260	0.000	85762	496.7	NS	---			----
Total Col1Ave (5 peaks):					492.5	Total Col2Ave (4 peaks):				472.5 RPD = 4
Corrected Ave (4 peaks):					489.5	Corrected Ave (3 peaks):				470.1 RPD = 4
CalAmt %D:					-1.5	CalAmt %D:				-5.5

Total PCB Area Col1 (5.936 - 13.808) = 4267475 Col1 Total PCB = 0.8 ppm*

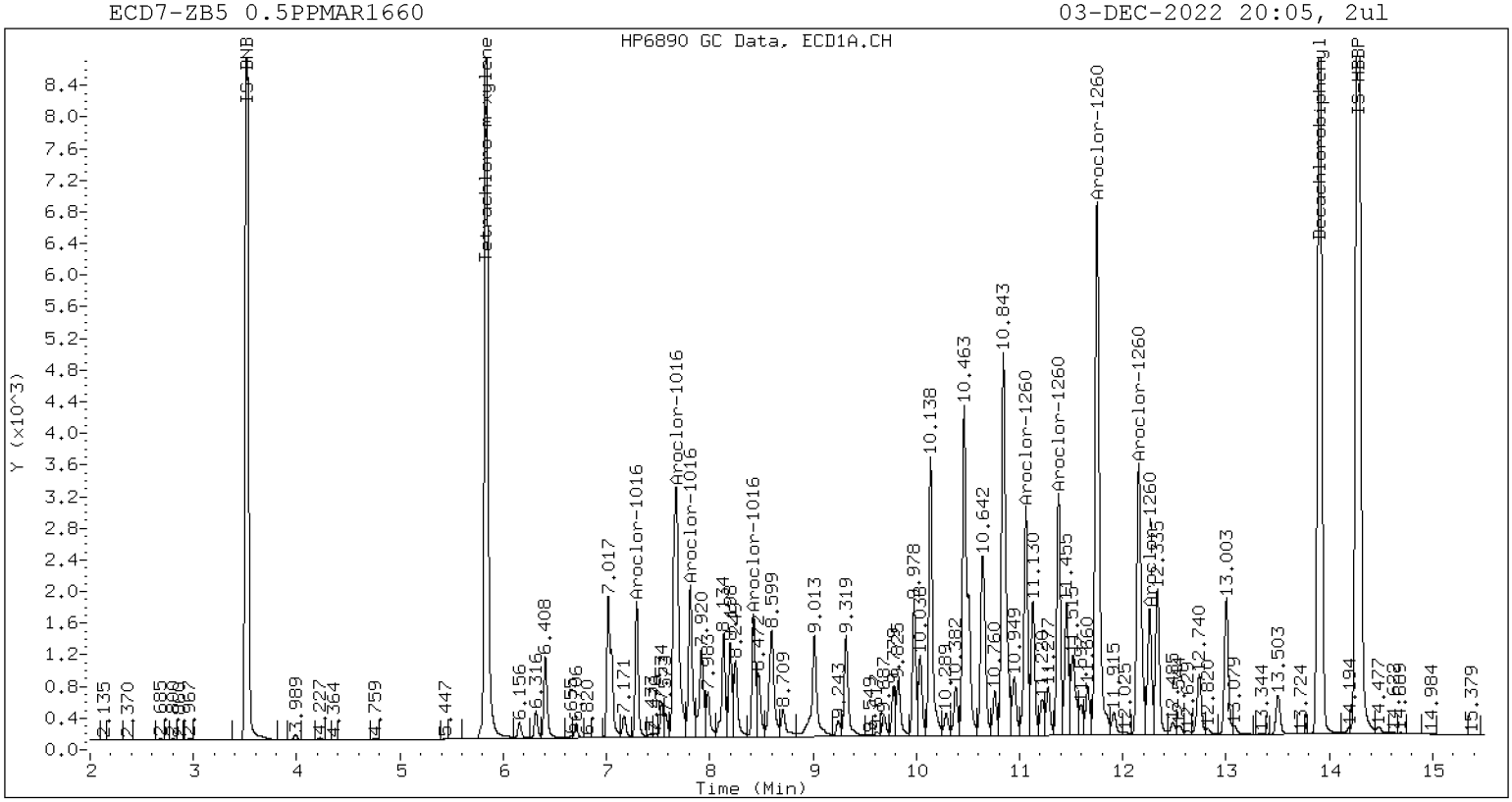
Total PCB Area Col2 (5.936 - 13.808) = 2352394 Col2 Total PCB = 1.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

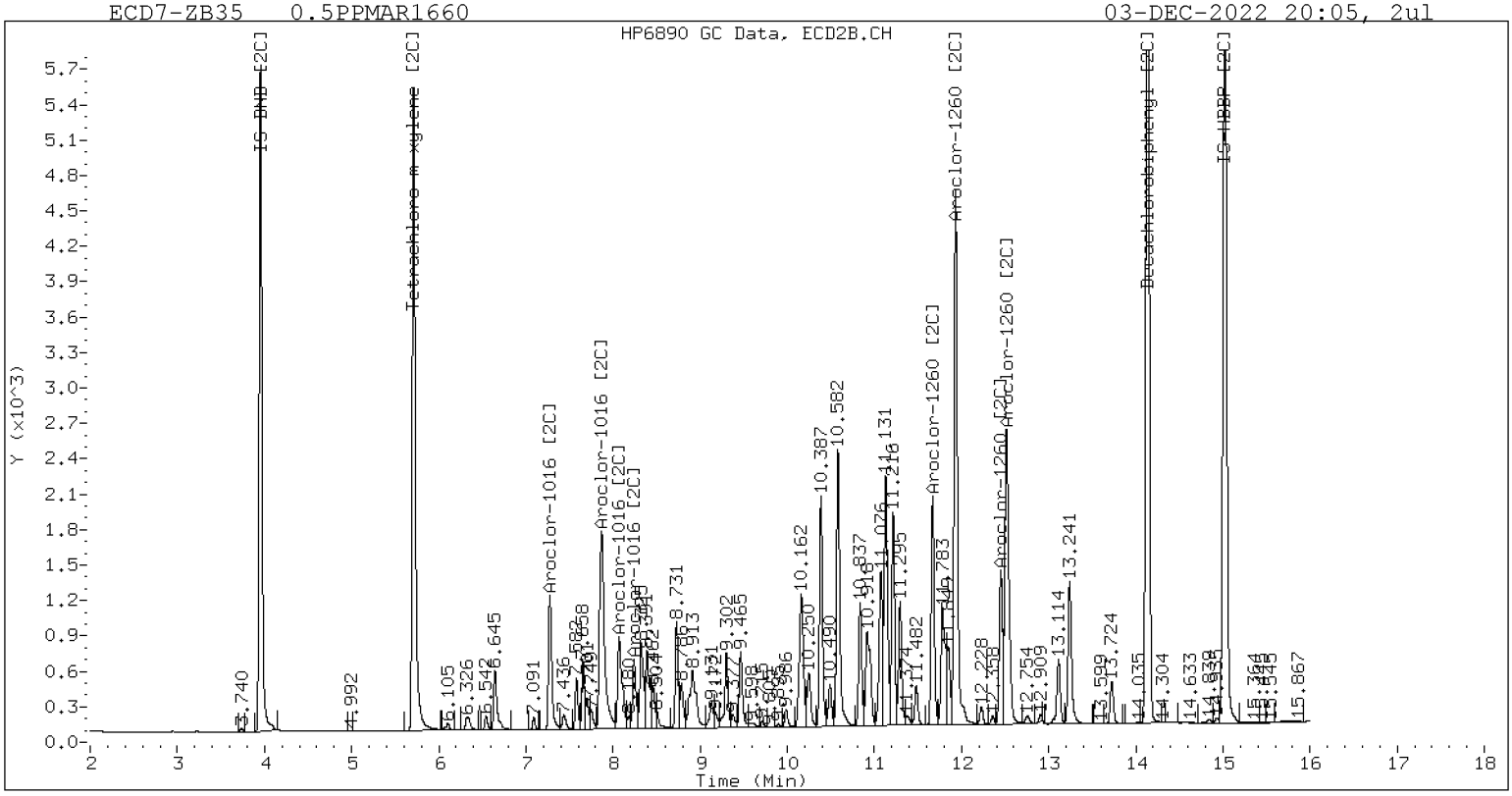
PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660 03-DEC-2022 20:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660 03-DEC-2022 20:05, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032217ECD7.D
Data file 2: /221203.b/221203.b/12032217ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 03-DEC-2022 20:26
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243461	5.713	-0.000	130768	37.3	37.1	0.4	Tetrachloro-m-xylene
13.908	-0.001	300671	14.137	0.000	218277	38.5	38.4	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	461030	3.0
Hexabromobiphenyl	798898	851899	6.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257053	3.2
Hexabromobiphenyl	362541	400012	10.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	32669	250.0	1	7.277	0.000	27198	250.0
Aroclor-1242	2	7.680	0.000	103727	250.0	2	7.875	0.000	57737	250.0
Aroclor-1242	3	8.427	0.000	29844	250.0	3	9.178	0.000	18627	250.0
Aroclor-1242	4	9.030	0.000	61970	250.0	4	9.605	0.000	22388	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 766457 Col1 Total PCB = 0.1 ppm*

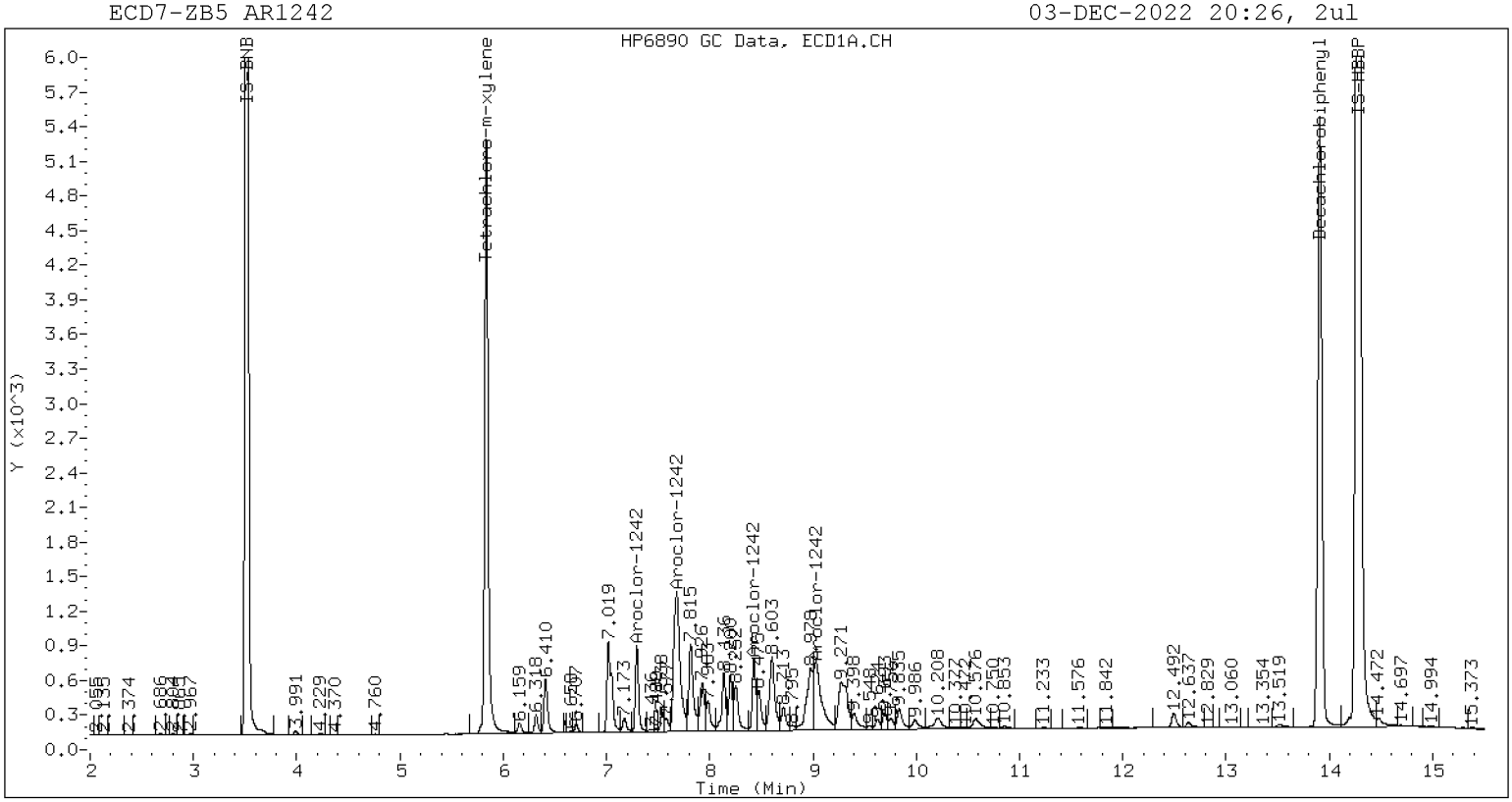
Total PCB Area Col2 (5.936 - 13.808) = 407128 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

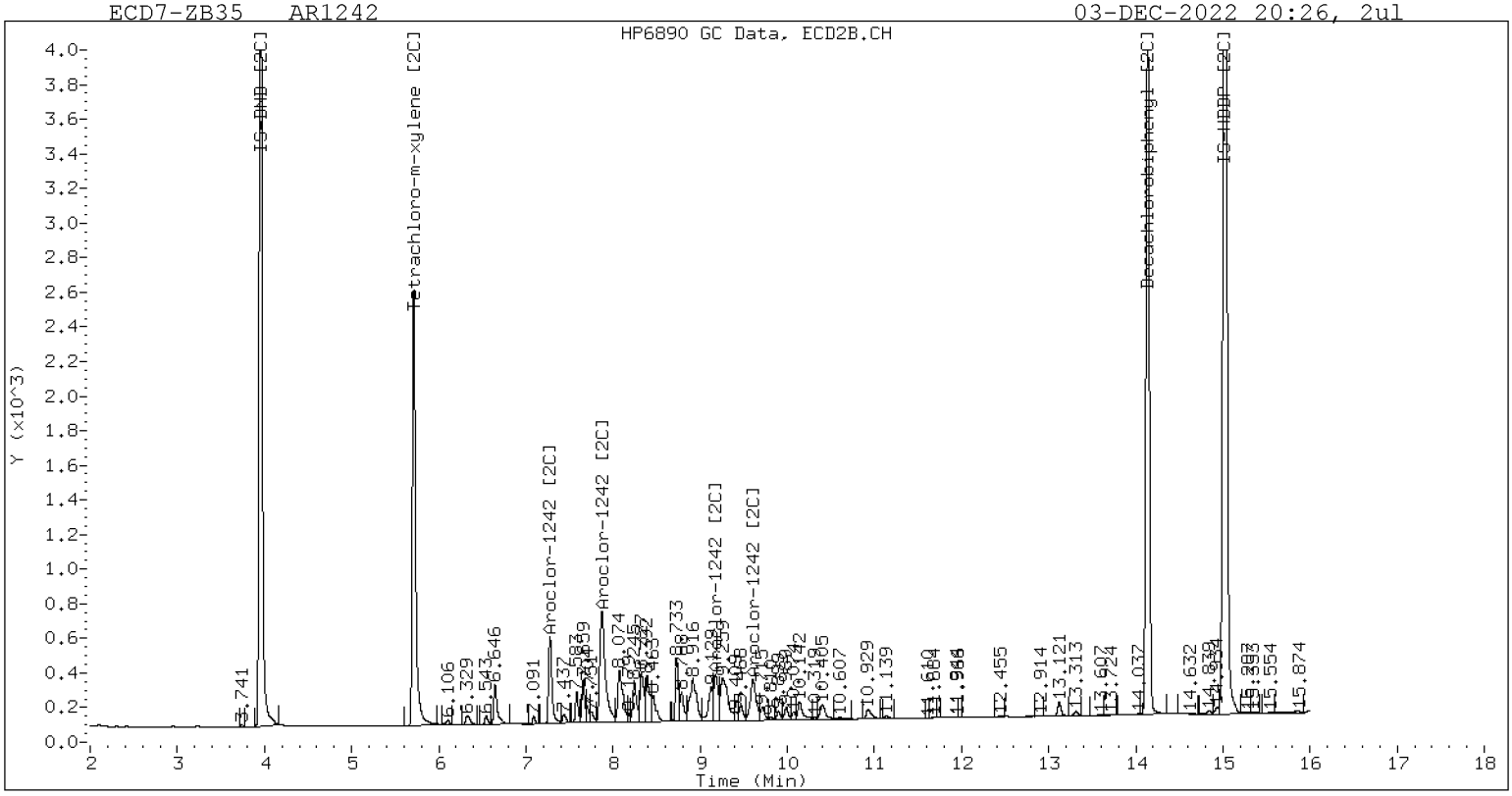
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242 03-DEC-2022 20:26, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242 03-DEC-2022 20:26, 2ul

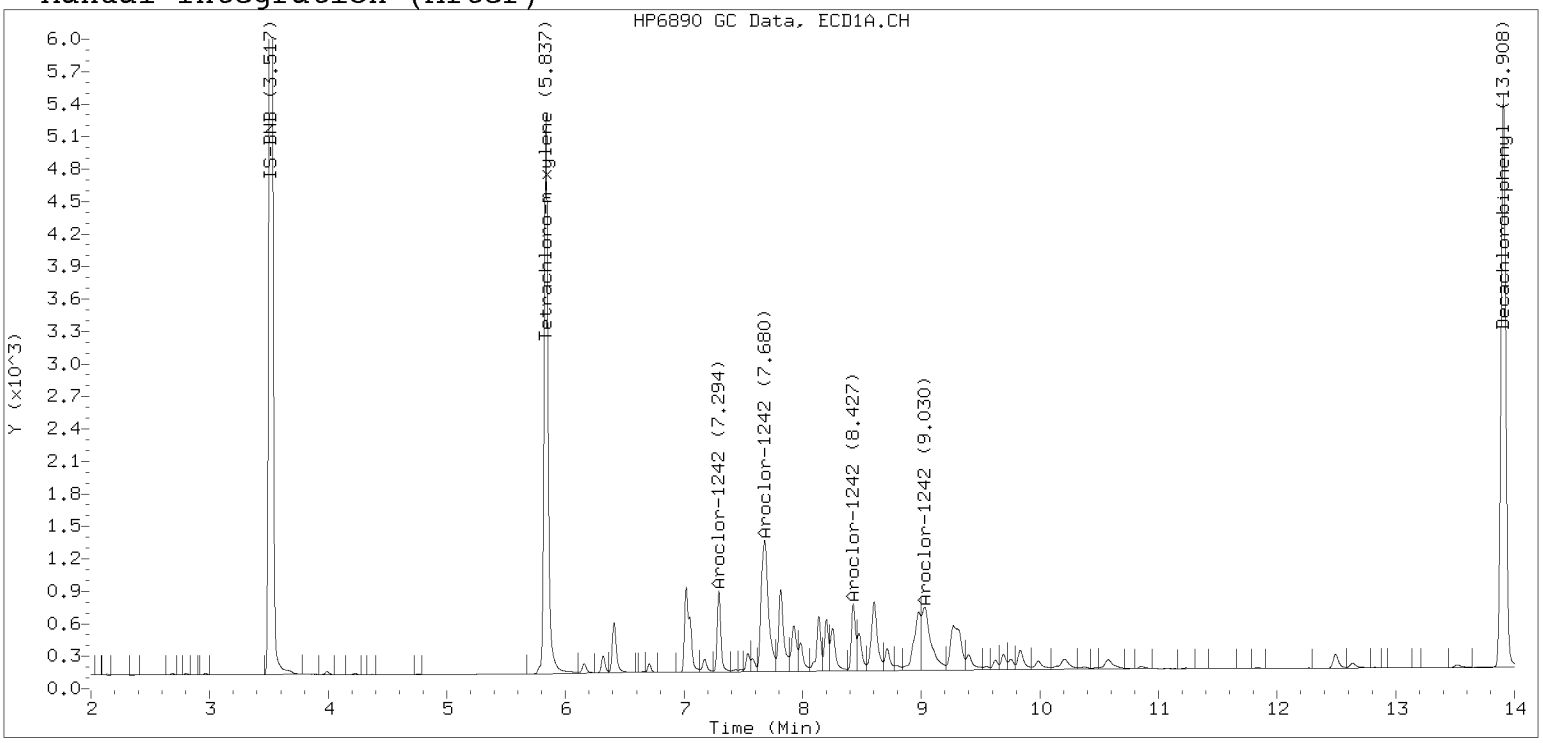


ZB-35 Manual Integration: YES

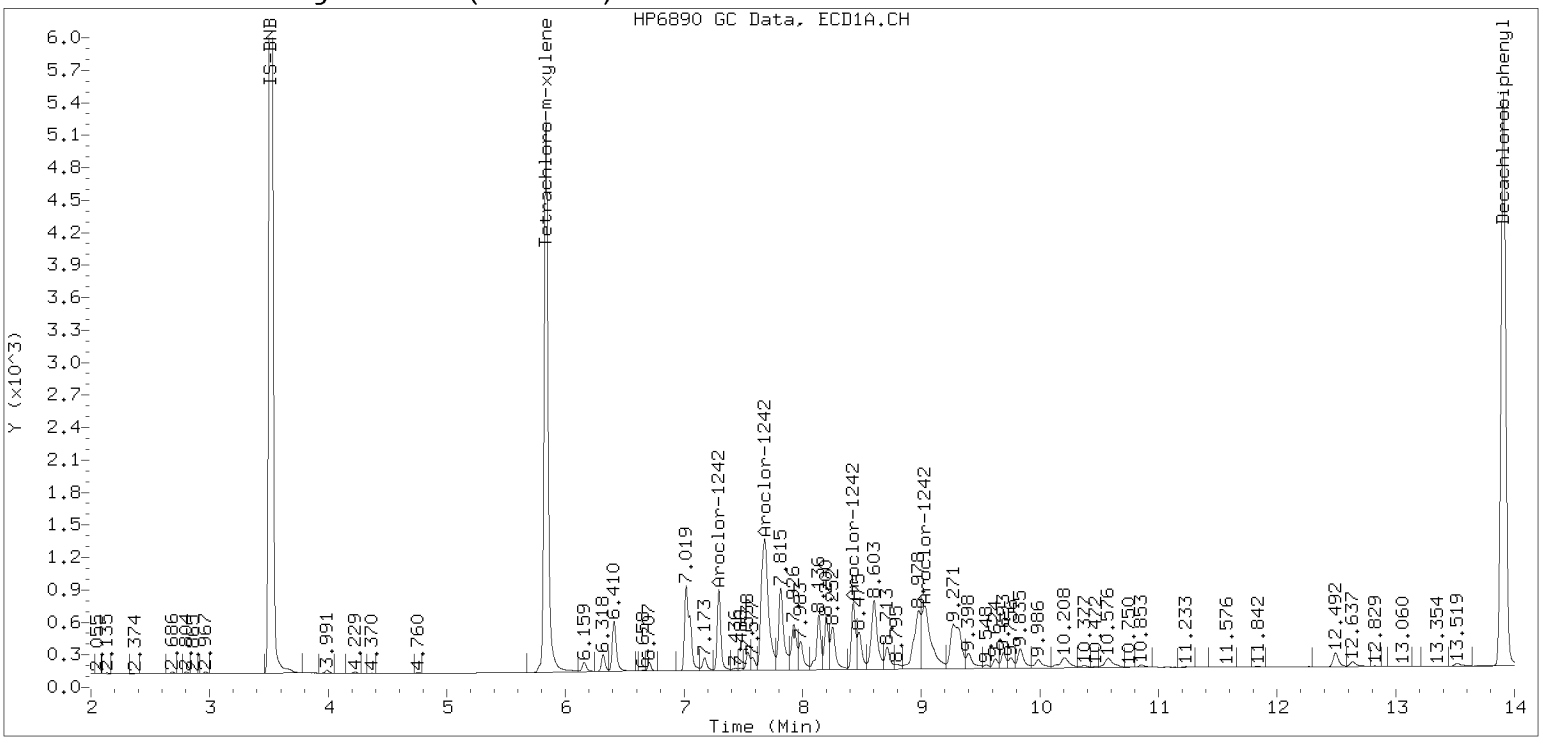
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221203.b/12032217ECD7.D Injection Date: 03-DEC-2022 20:26

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032218ECD7.D
Data file 2: /221203.b/221203.b/12032218ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 03-DEC-2022 20:48
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	231737	5.713	-0.000	124430	36.1	35.8	0.8	Tetrachloro-m-xylene
13.907	-0.001	296478	14.137	0.000	215774	38.9	38.1	1.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453370	1.3
Hexabromobiphenyl	798898	832030	4.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	253684	1.8
Hexabromobiphenyl	362541	398468	9.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	0.000	48733	250.0	1	8.326	0.000	25909	250.0
Aroclor-1248	2	8.603	0.000	62221	250.0	2	8.733	0.000	27250	250.0
Aroclor-1248	3	9.023	0.000	111933	250.0	3	9.177	0.000	33147	250.0
Aroclor-1248	4	9.315	0.000	54837	250.0	4	9.602	0.000	38911	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 964384 Col1 Total PCB = 0.2 ppm*

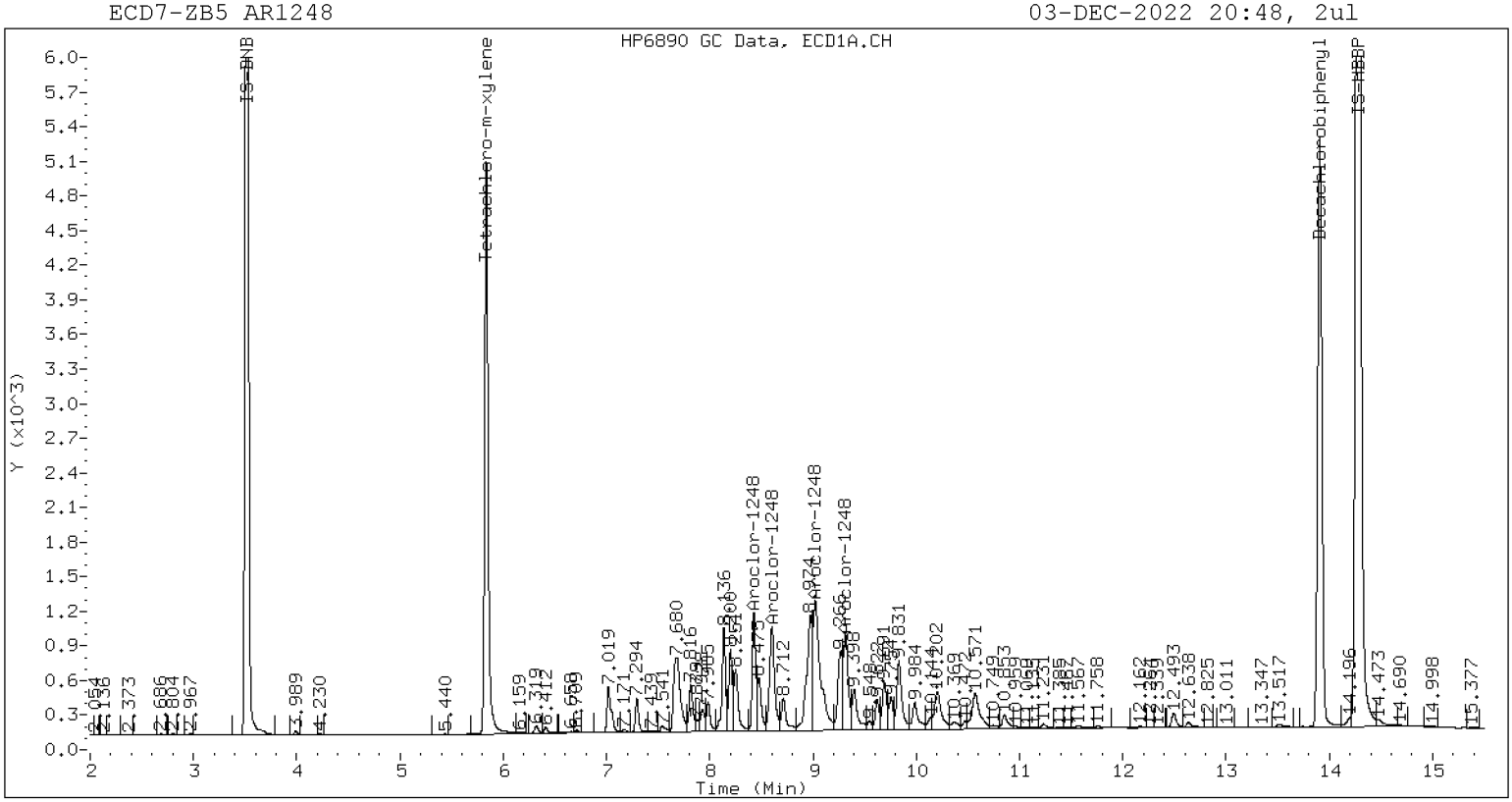
Total PCB Area Col2 (5.936 - 13.808) = 514558 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

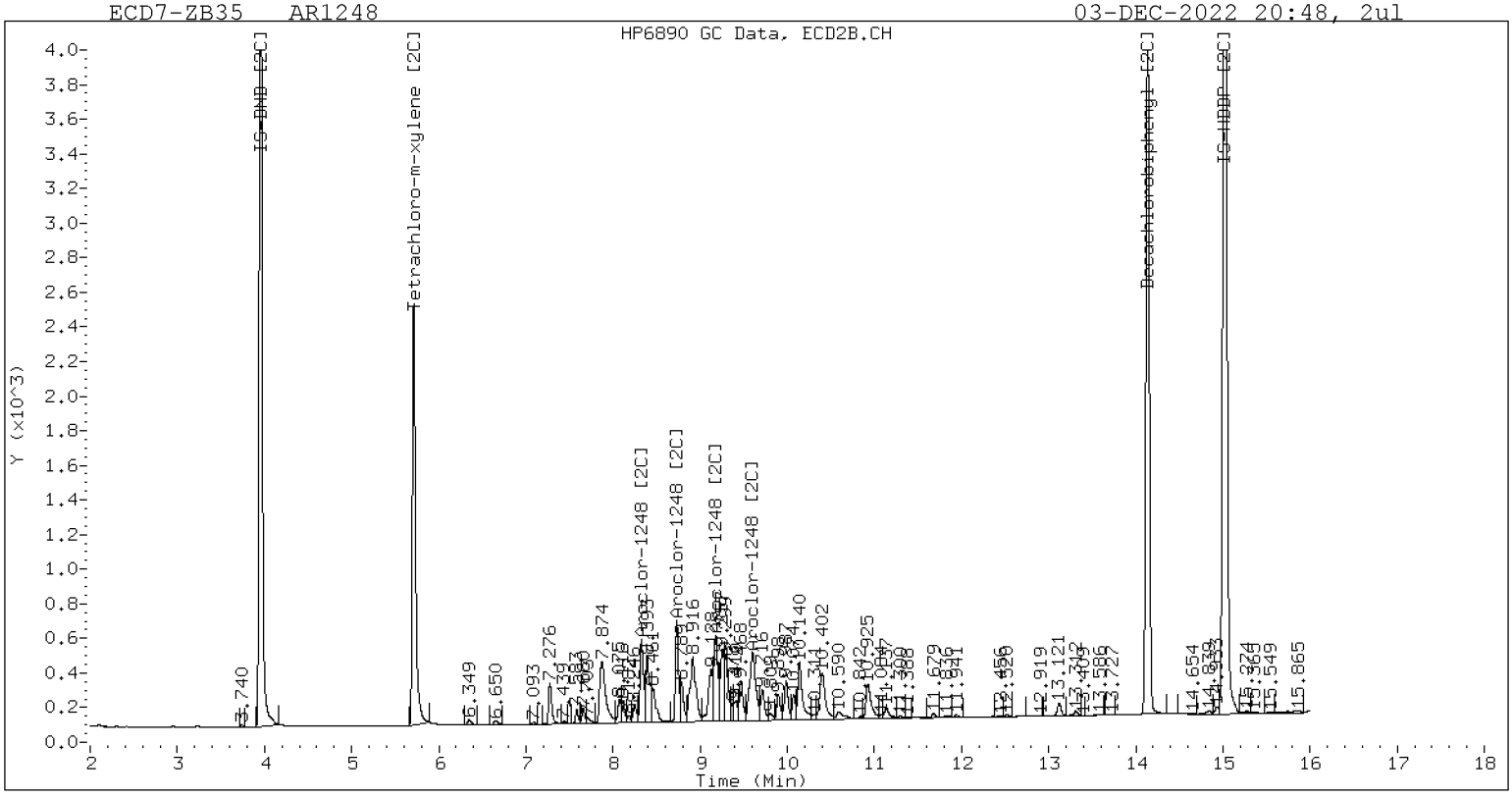
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248 03-DEC-2022 20:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248 03-DEC-2022 20:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032219ECD7.D
Data file 2: /221203.b/221203.b/12032219ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 03-DEC-2022 21:09
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	235742	5.713	-0.000	129532	36.3	36.8	1.4	Tetrachloro-m-xylene
13.908	-0.000	304424	14.136	-0.001	220843	39.5	38.4	2.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458200	2.4
Hexabromobiphenyl	798898	841638	5.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	256547	3.0
Hexabromobiphenyl	362541	405063	11.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.319	0.000	100858	250.0	1	9.467	0.000	41352	250.0
Aroclor-1254	2	9.397	0.000	39224	250.0	2	9.987	0.000	33246	250.0
Aroclor-1254	3	9.688	0.000	63702	250.0	3	10.139	0.000	71462	250.0
Aroclor-1254	4	9.828	0.000	124170	250.0	4	10.389	0.000	74009	250.0
Aroclor-1254	5	10.194	0.000	85117	250.0	5	10.586	0.000	35695	250.0

Total Col1Ave (5 peaks): 250.0 Total Col2Ave (5 peaks): 250.0 RPD = 0

Corrected Ave (4 peaks): 250.0 Corrected Ave (4 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1310899 Col1 Total PCB = 0.2 ppm*

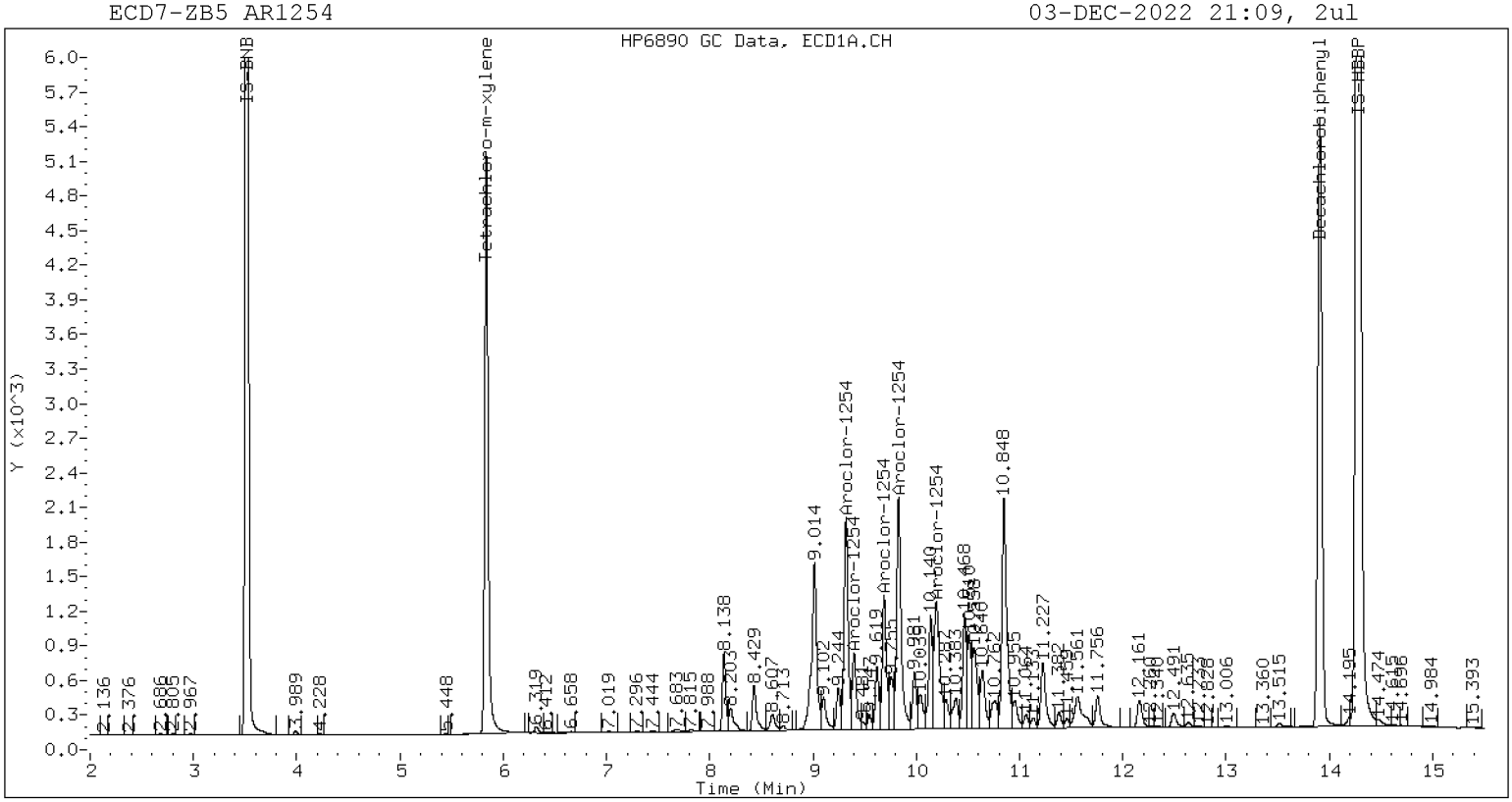
Total PCB Area Col2 (5.936 - 13.808) = 697760 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

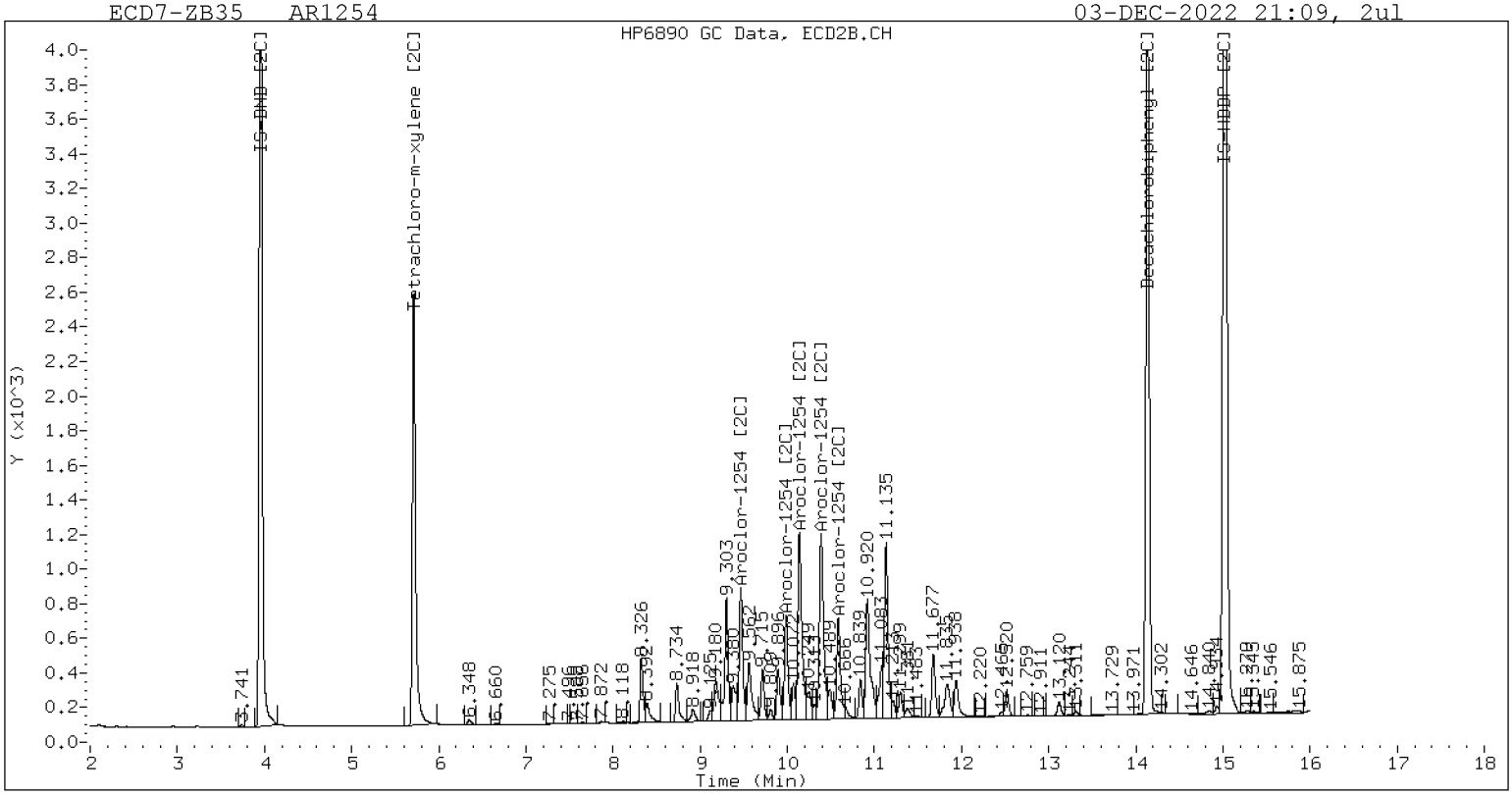
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254 03-DEC-2022 21:09, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254 03-DEC-2022 21:09, 2ul



ZB-35 Manual Integration: YES

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032220ECD7.D
Data file 2: /221203.b/221203.b/12032220ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162
Client ID:
Injection Date: 03-DEC-2022 21:30
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	241351	5.713	-0.001	129143	36.5	36.2	0.7	Tetrachloro-m-xylene
13.908	0.000	313862	14.136	-0.001	226219	40.2	38.7	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	466944	4.3
Hexabromobiphenyl	798898	850987	6.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	260026	4.4
Hexabromobiphenyl	362541	412003	13.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	ZB5 Col Area	Amount	Peak#	RT	Shift	ZB35 Col Area	Amount
Aroclor-1221	1	4.760	0.000	9650	250.0	1	4.987	0.000	5486	250.0
Aroclor-1221	2	6.159	0.000	17000	250.0	2	6.322	0.000	10456	250.0
Aroclor-1221	3	6.409	0.000	39219	250.0	3	6.645	0.000	17596	250.0
Total Col1Ave (3 peaks):					250.0	Total Col2Ave (3 peaks):				250.0 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.848	0.000	71145	250.0	1	11.217	0.000	78317	250.0
Aroclor-1262	2	12.263	0.000	110609	250.0	2	11.670	0.000	67831	250.0
Aroclor-1262	3	12.337	0.000	118127	250.0	3	12.451	0.000	74822	250.0
Aroclor-1262	4	13.005	0.000	94805	250.0	4	12.519	0.000	117202	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1878739 Col1 Total PCB = 0.3 ppm*

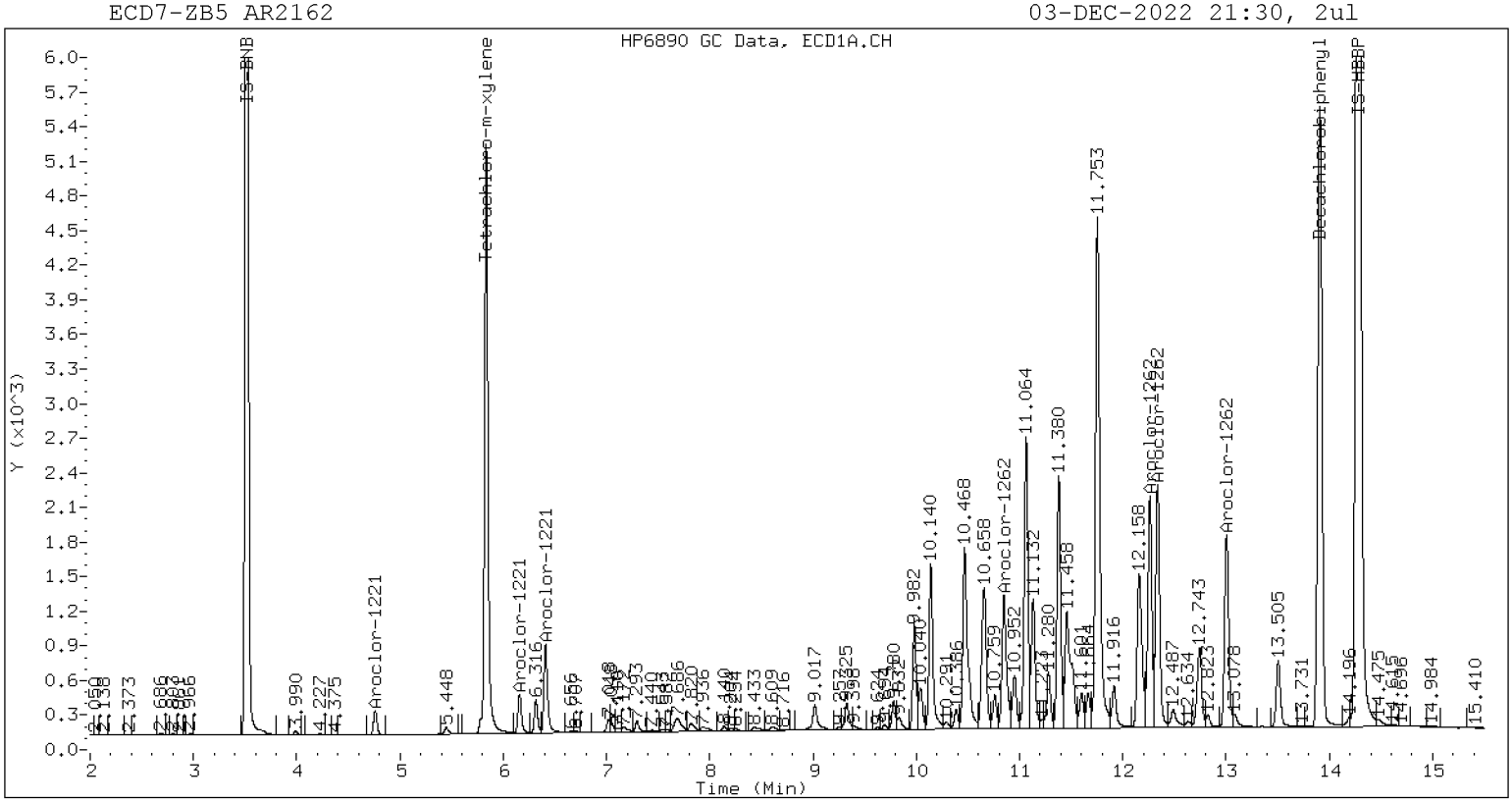
Total PCB Area Col2 (5.936 - 13.808) = 1073324 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

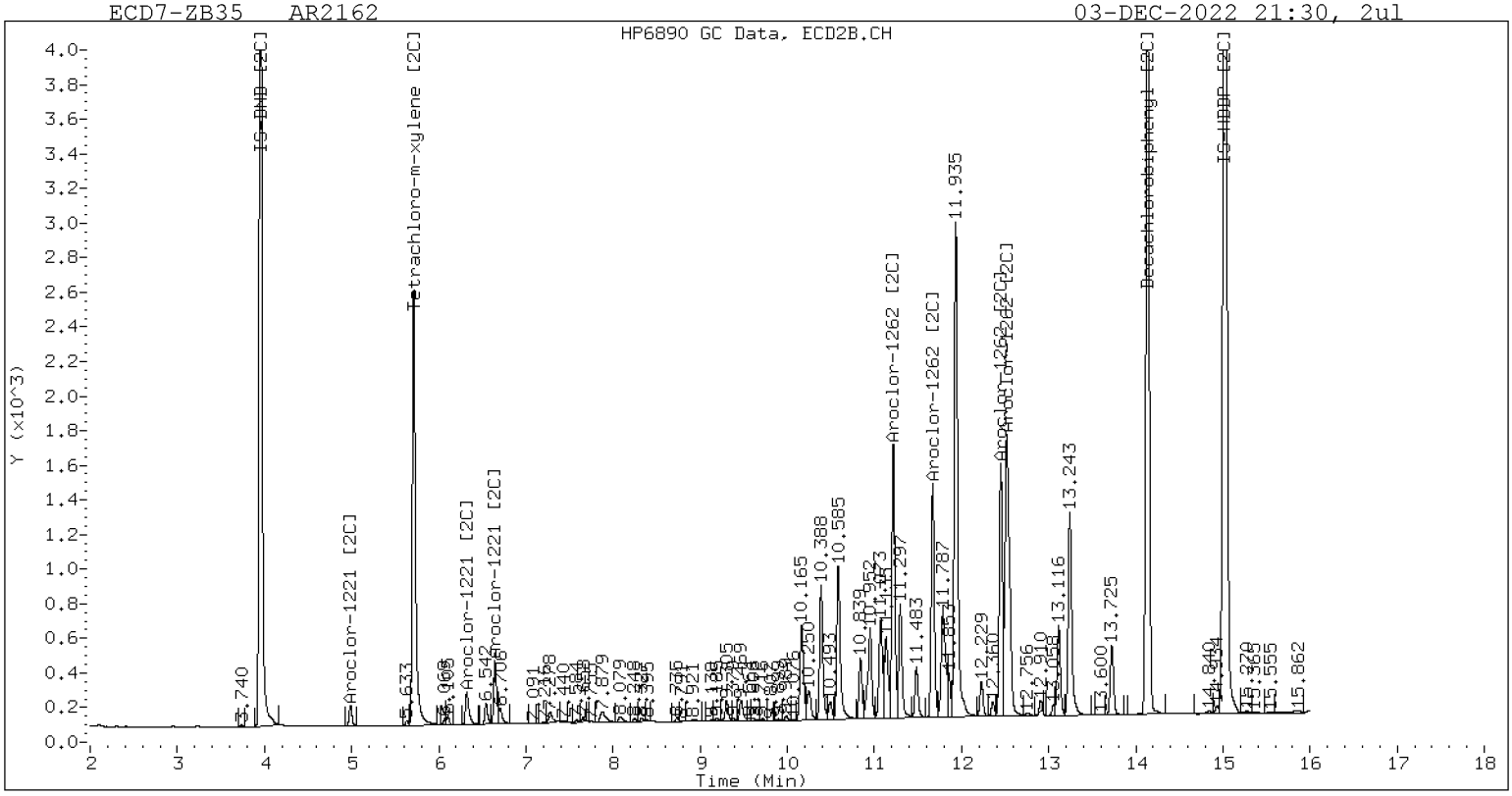
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162 03-DEC-2022 21:30, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162 03-DEC-2022 21:30, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032221ECD7.D
Data file 2: /221203.b/221203.b/12032221ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268
Client ID:
Injection Date: 03-DEC-2022 21:52
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	243663	5.713	0.000	131067	37.5	37.4	0.3	Tetrachloro-m-xylene
13.908	0.000	449152	14.137	0.000	328563	57.2	55.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458589	2.4
Hexabromobiphenyl	798898	855928	7.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	255655	2.6
Hexabromobiphenyl	362541	413793	14.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.761	0.000	5704	250.0	1	4.989	0.000	3108	250.0
Aroclor-1232	2	6.160	0.000	12048	250.0	2	7.277	0.000	15872	250.0
Aroclor-1232	3	7.684	0.000	54107	250.0	3	7.876	0.000	31029	250.0
Aroclor-1232	4	8.606	0.000	22956	250.0	4	8.734	0.000	8413	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	12.262	0.000	299378	250.0	1	12.450	0.000	195273	250.0
Aroclor-1268	2	12.335	0.000	292877	250.0	2	12.517	0.000	200224	250.0
Aroclor-1268	3	12.716	0.000	240046	250.0	3	12.910	0.000	74248	250.0
Aroclor-1268	4	13.505	0.000	732880	250.0	4	13.726	0.000	534323	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 2400701 Col1 Total PCB = 0.5 ppm*

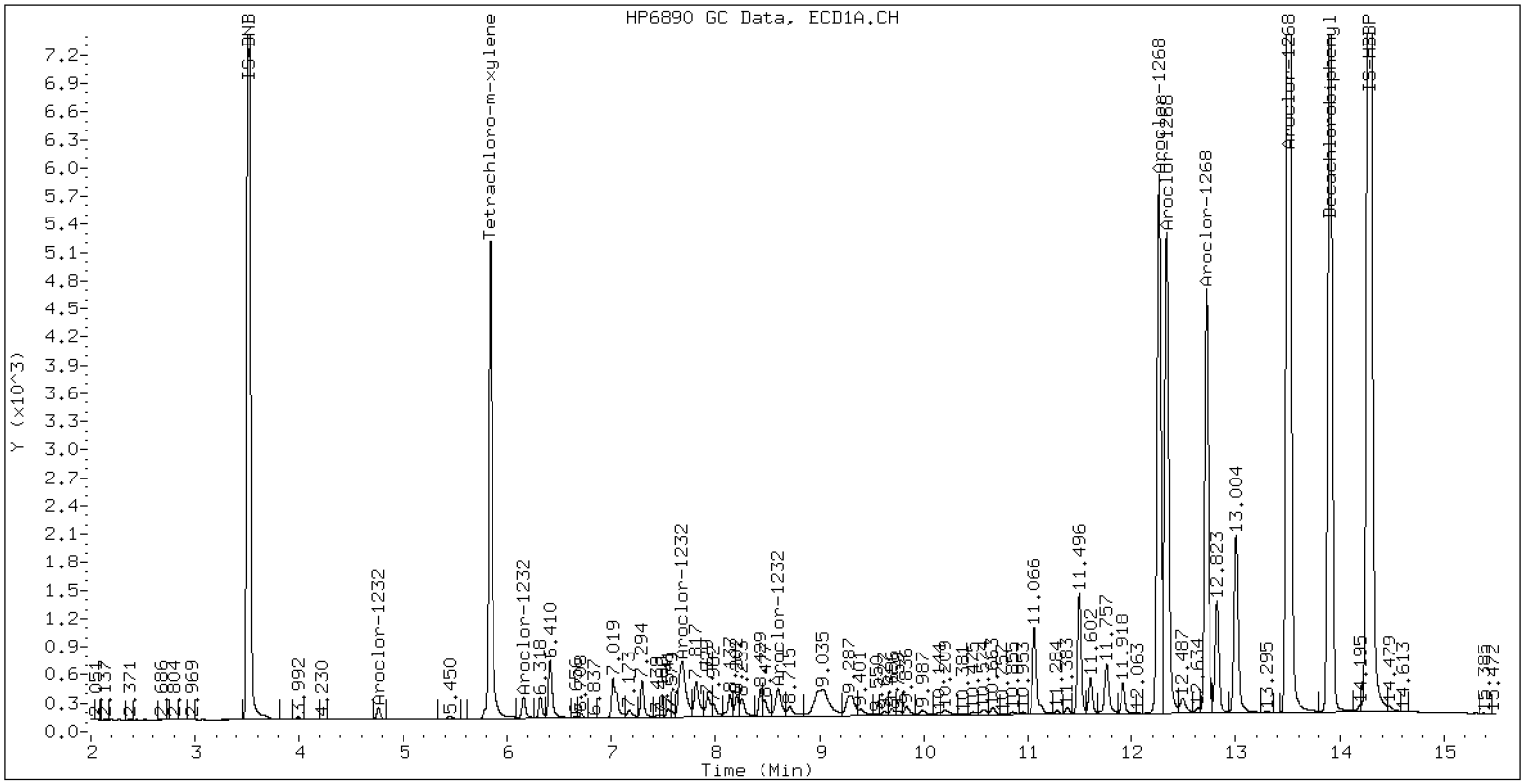
Total PCB Area Col2 (5.936 - 13.808) = 1468669 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

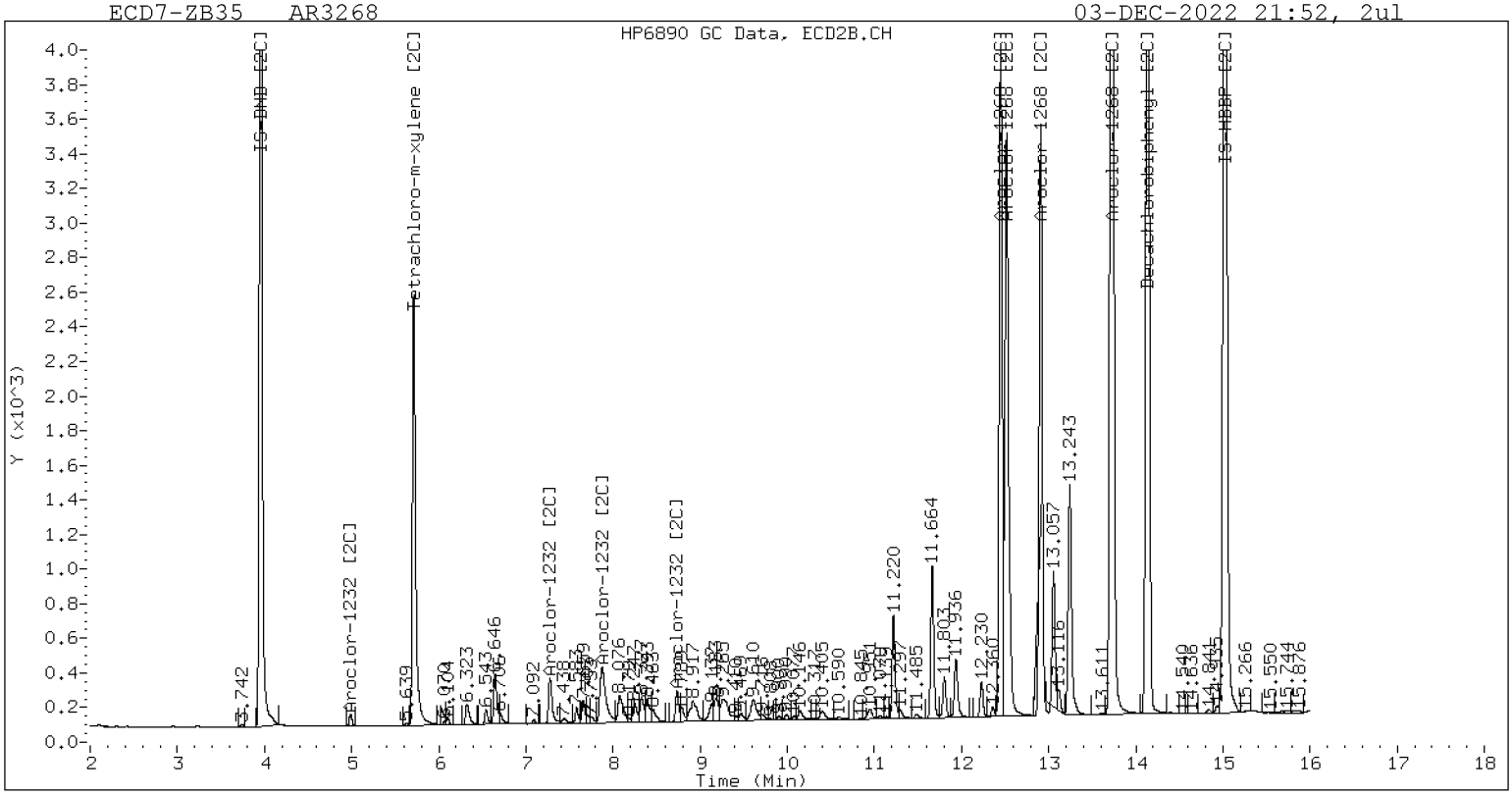
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268 03-DEC-2022 21:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268 03-DEC-2022 21:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

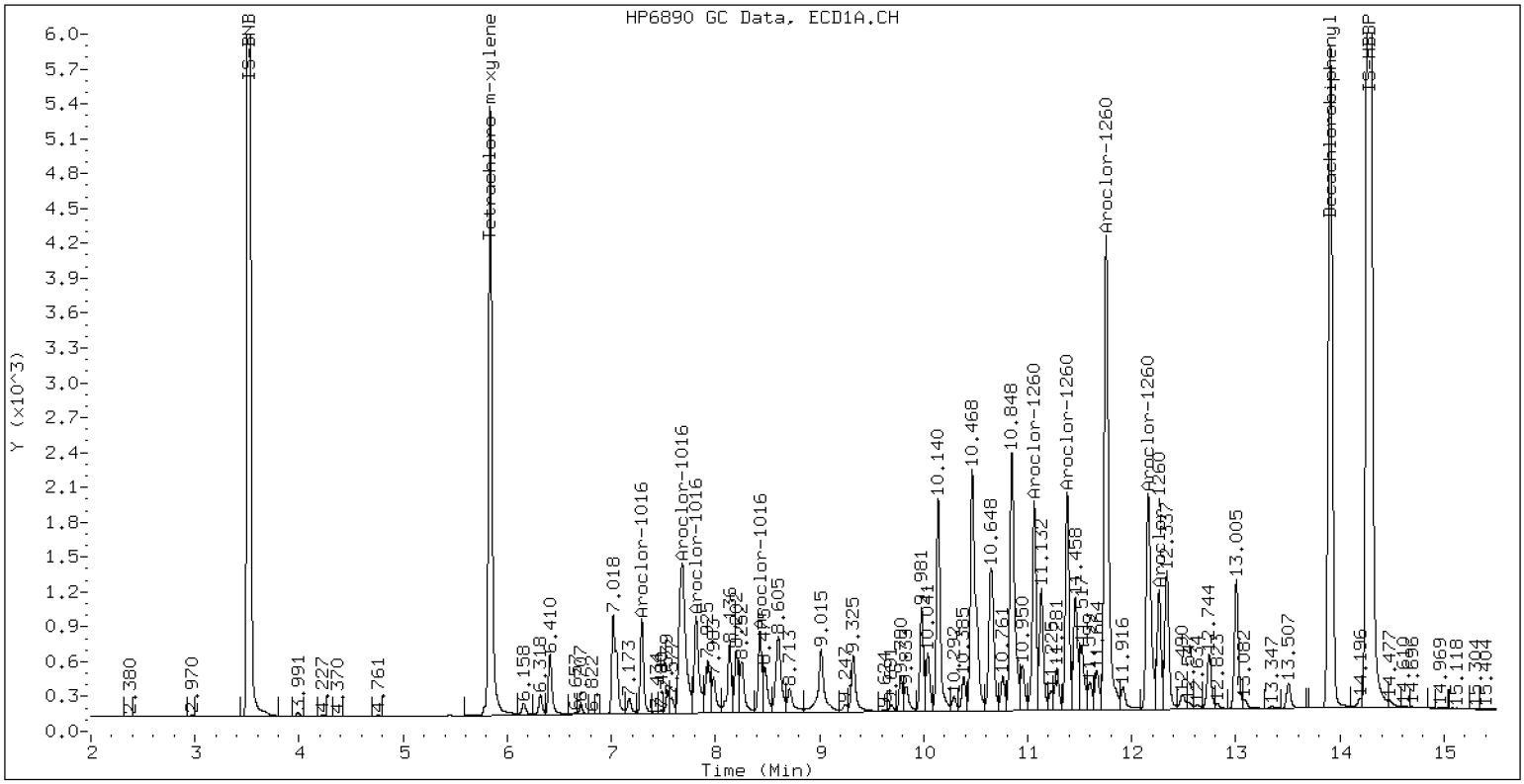
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

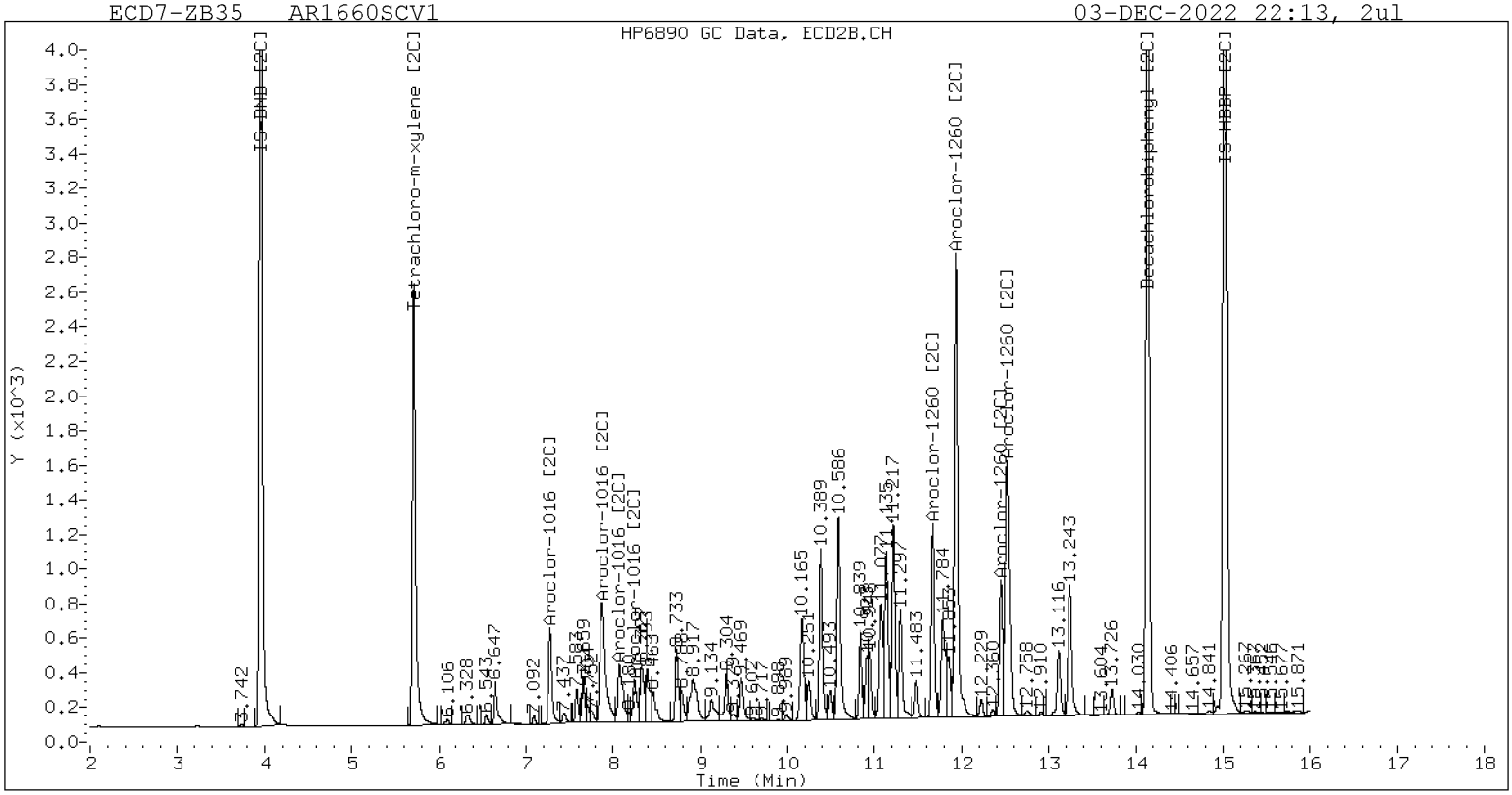
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

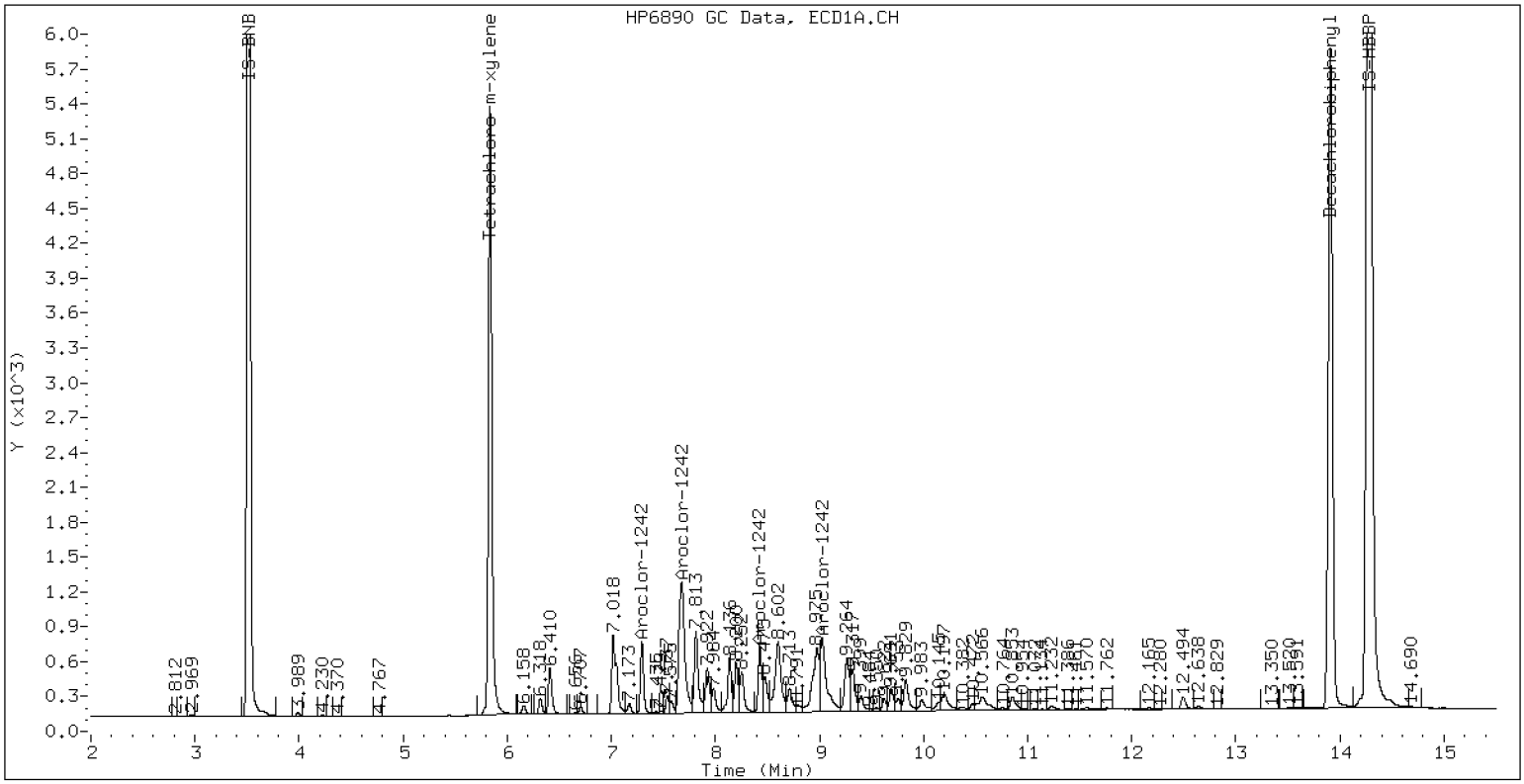
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

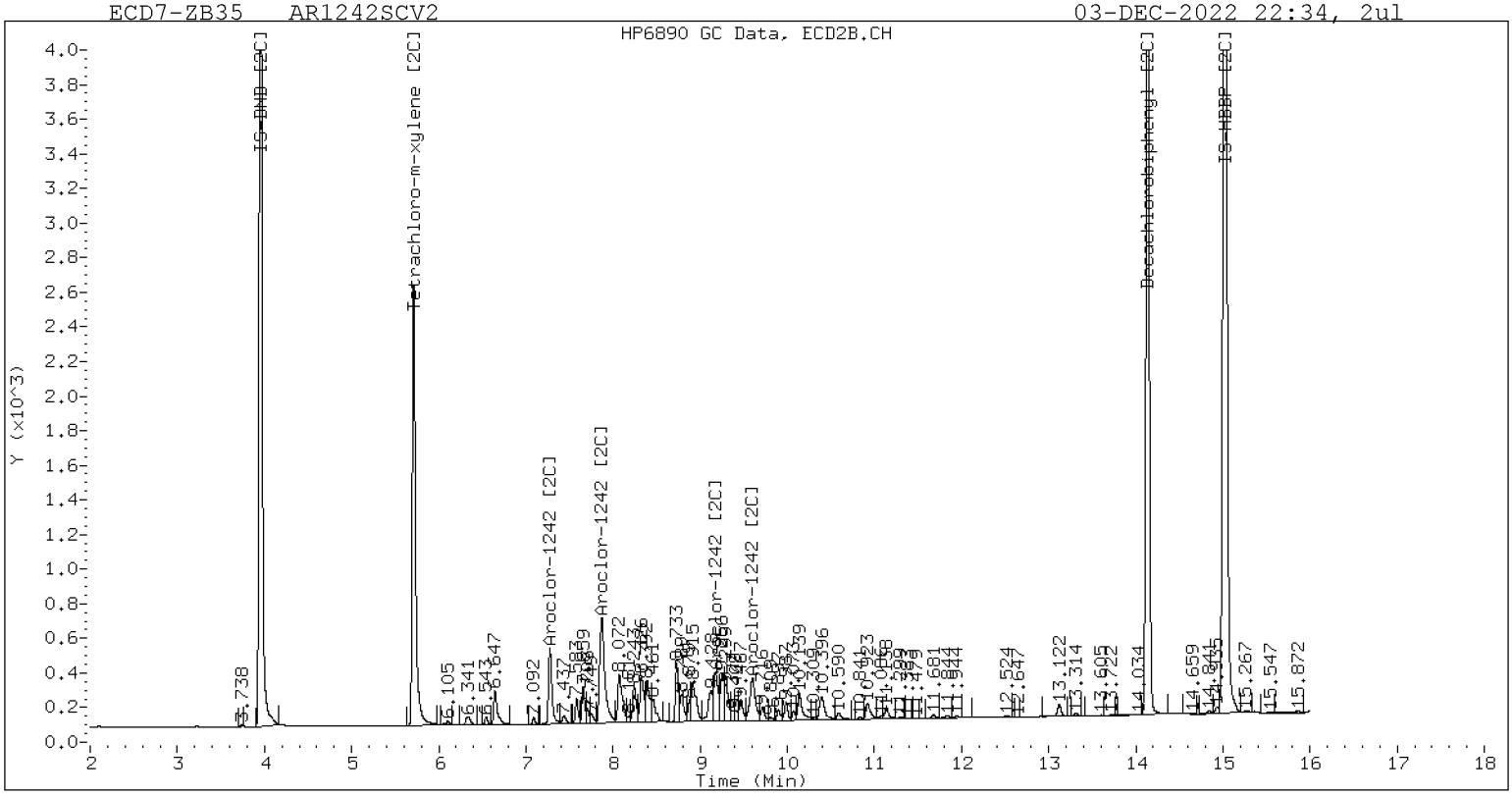
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7

Total Col1Ave (4 peaks): 245.5 Total Col2Ave (4 peaks): 230.2 RPD = 6

Corrected Ave (3 peaks): 238.8 Corrected Ave (3 peaks): 230.0 RPD = 4

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

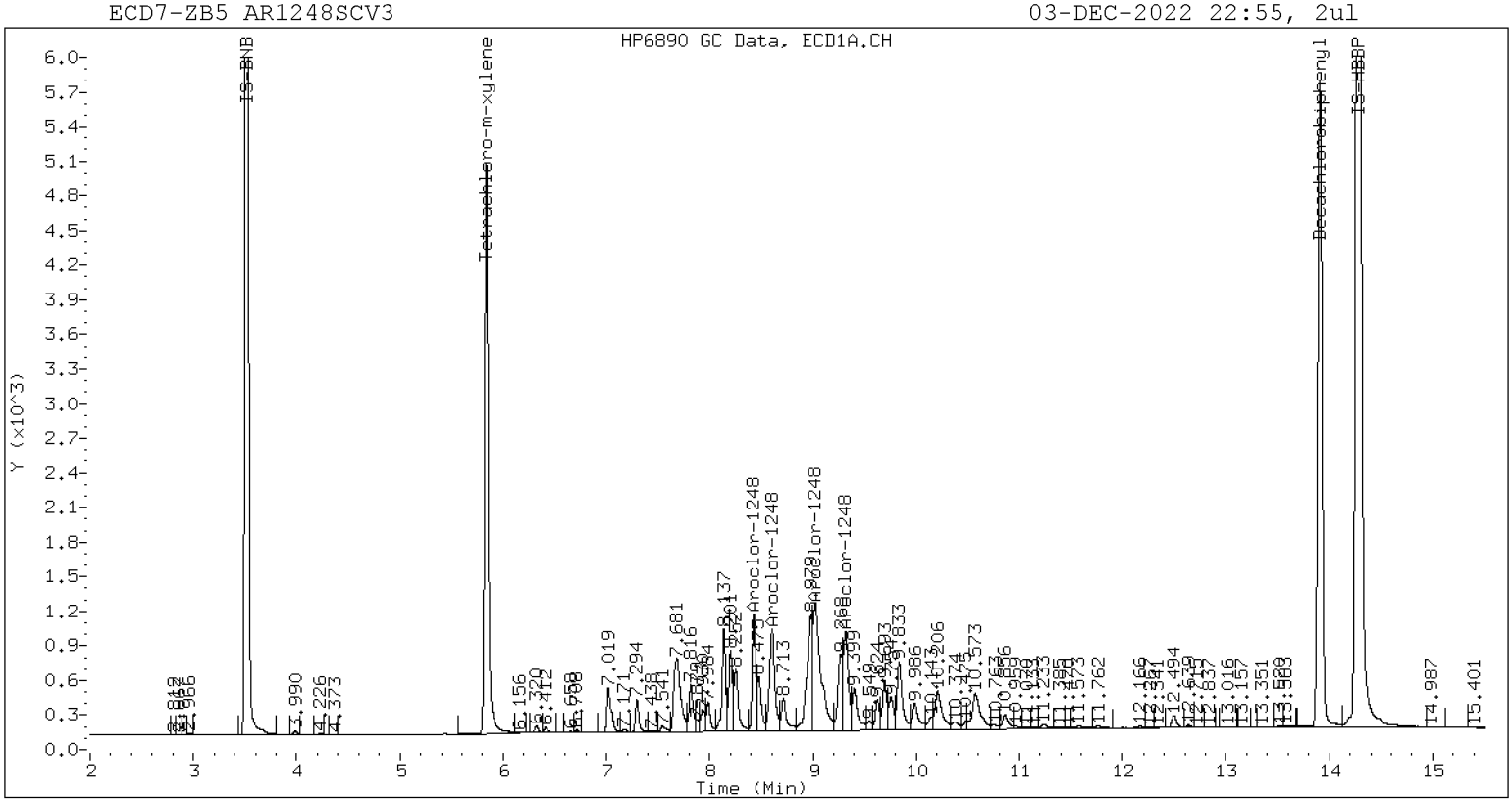
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

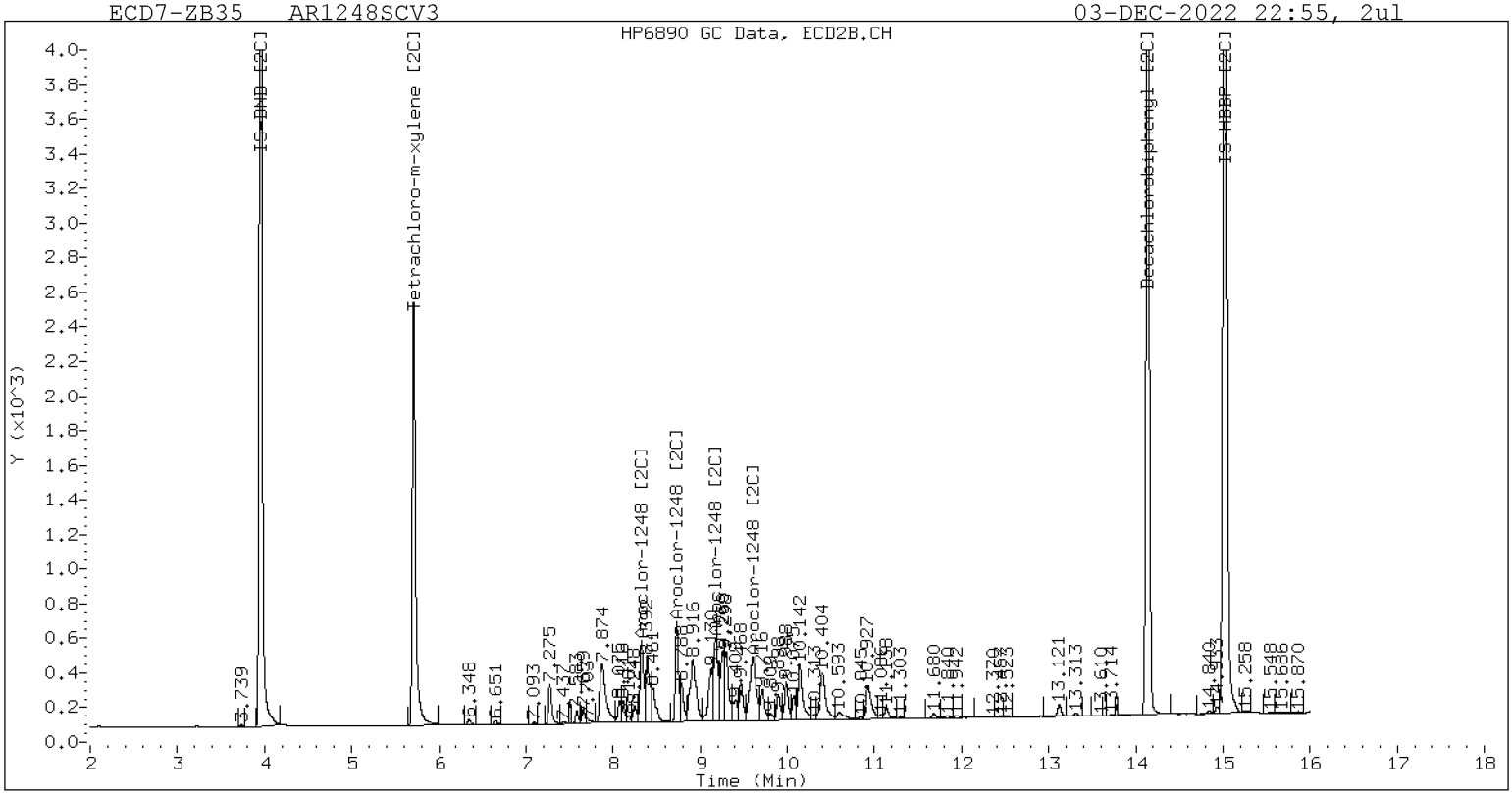
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2

Total Col1Ave (5 peaks): 227.9 Total Col2Ave (5 peaks): 230.7 RPD = 1

Corrected Ave (4 peaks): 222.9 Corrected Ave (4 peaks): 223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

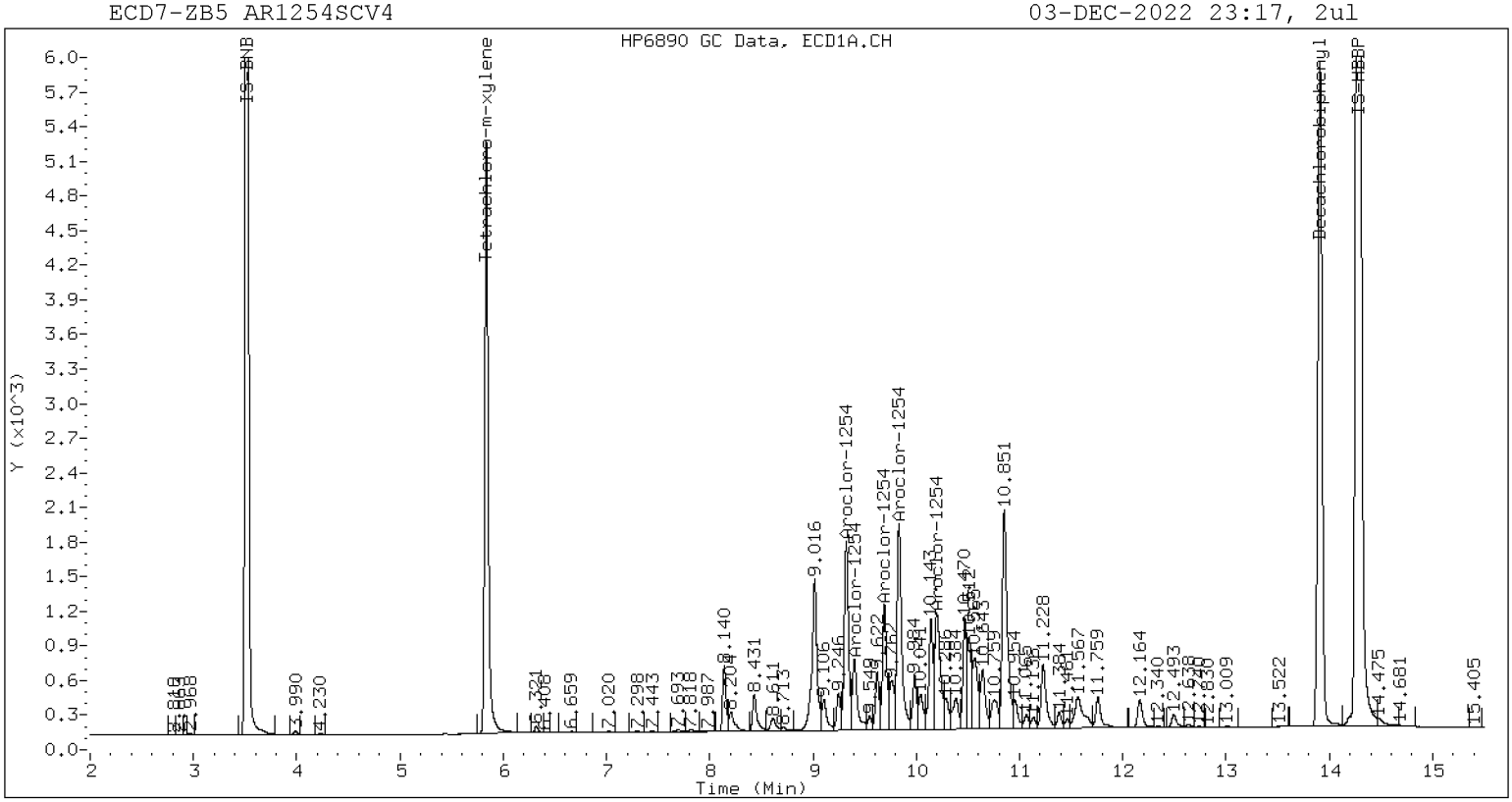
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

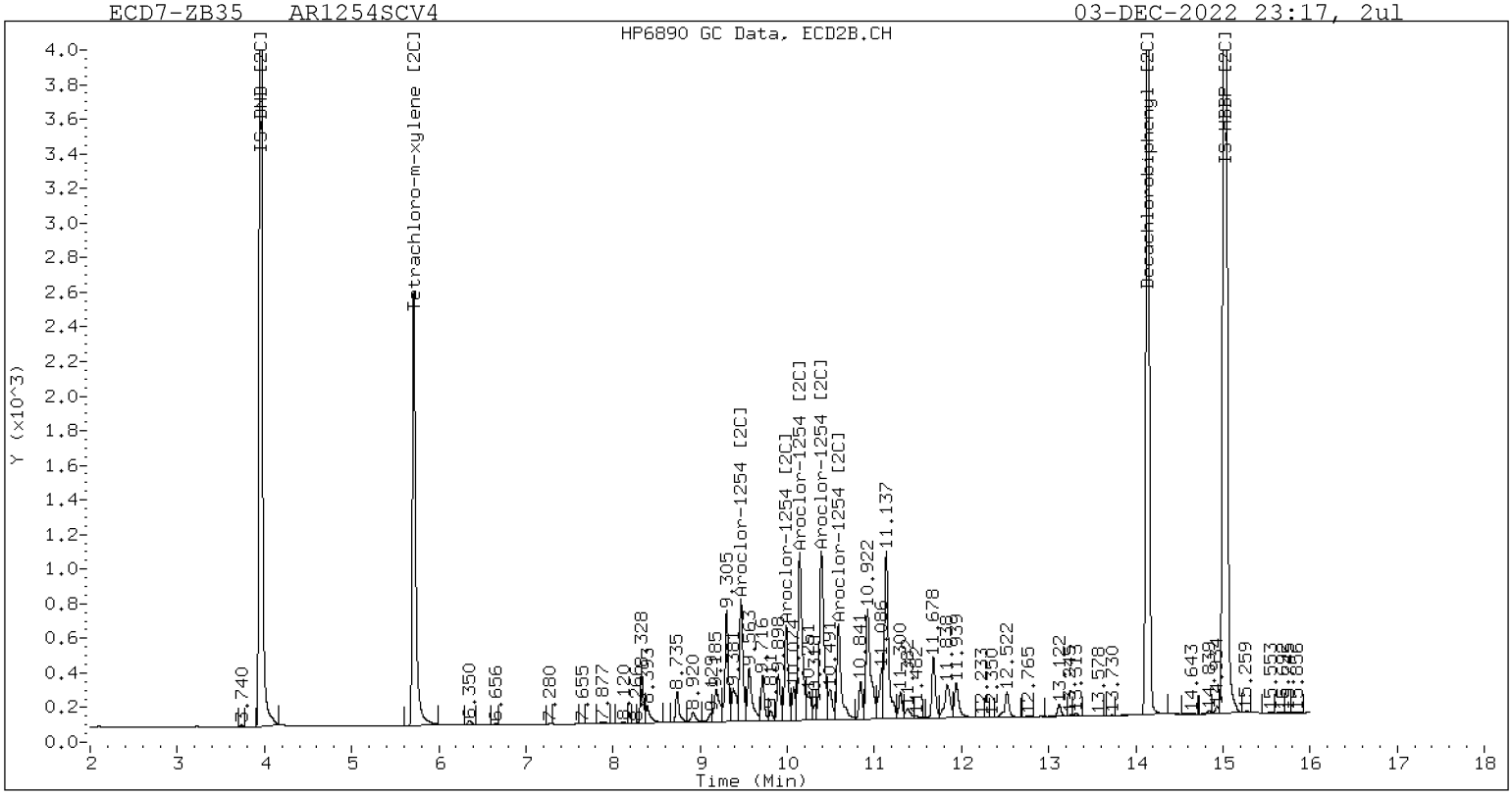
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
Total Col1Ave (3 peaks):					236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
Total Col1Ave (4 peaks):					469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
Corrected Ave (3 peaks):					466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

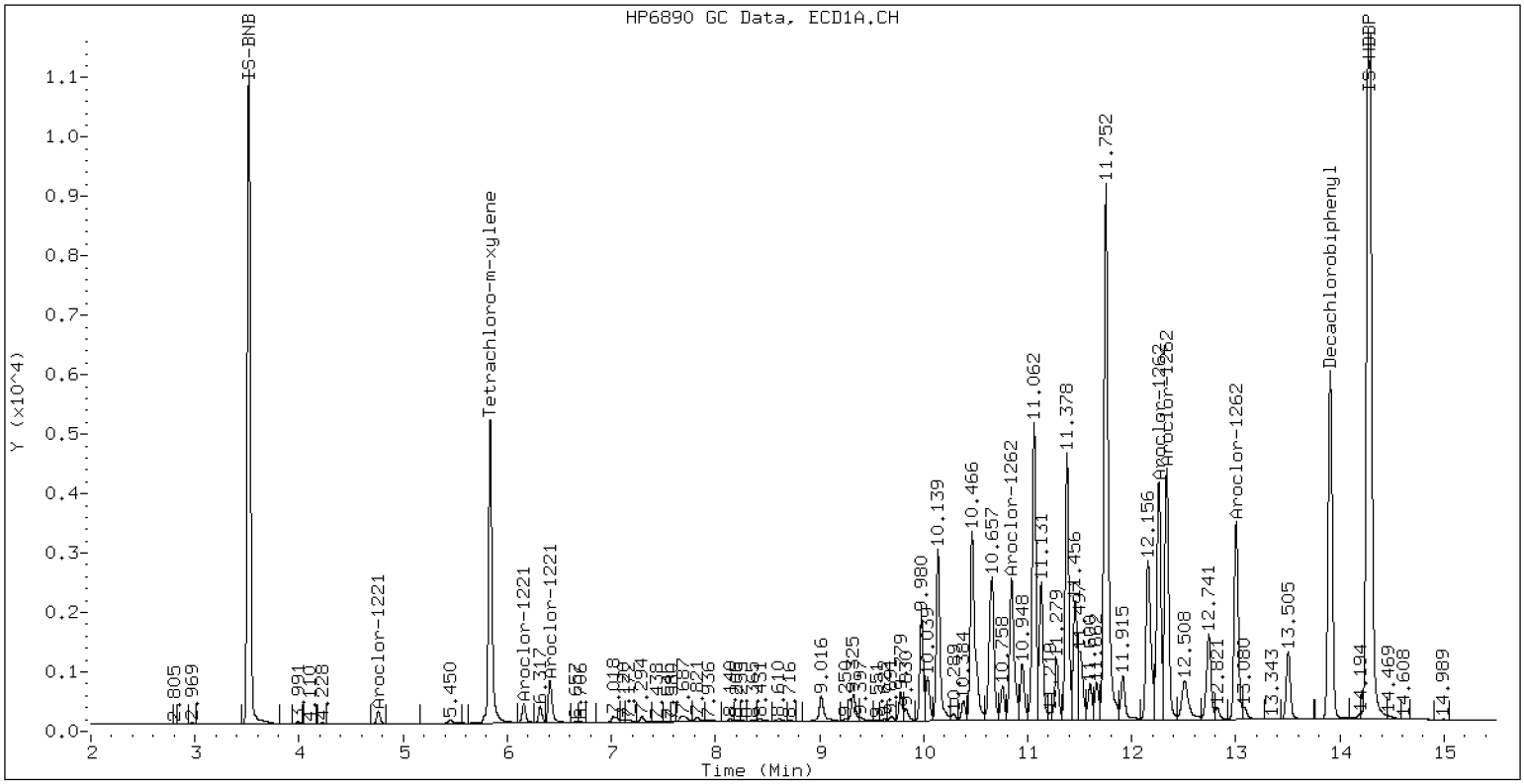
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

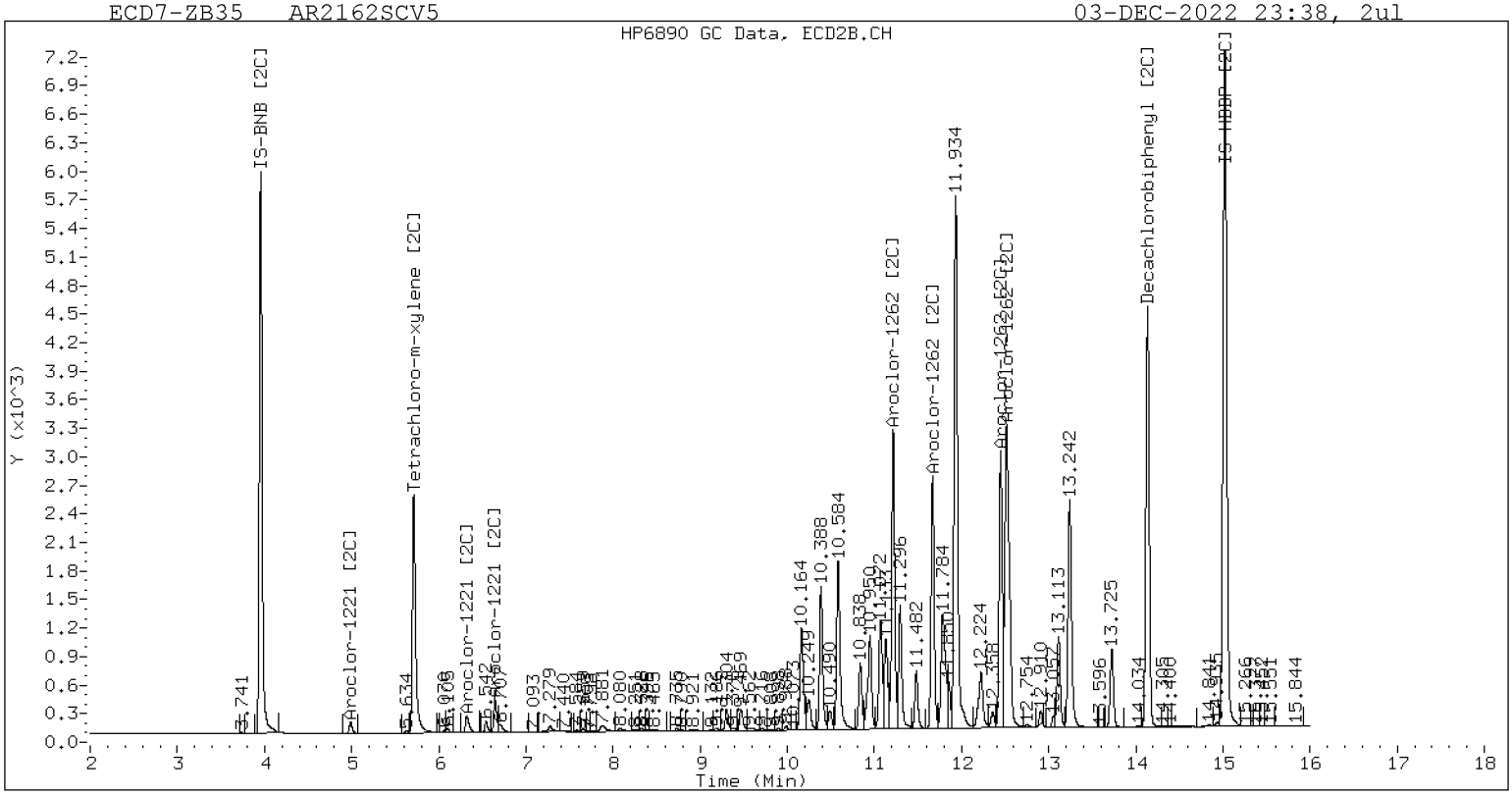
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

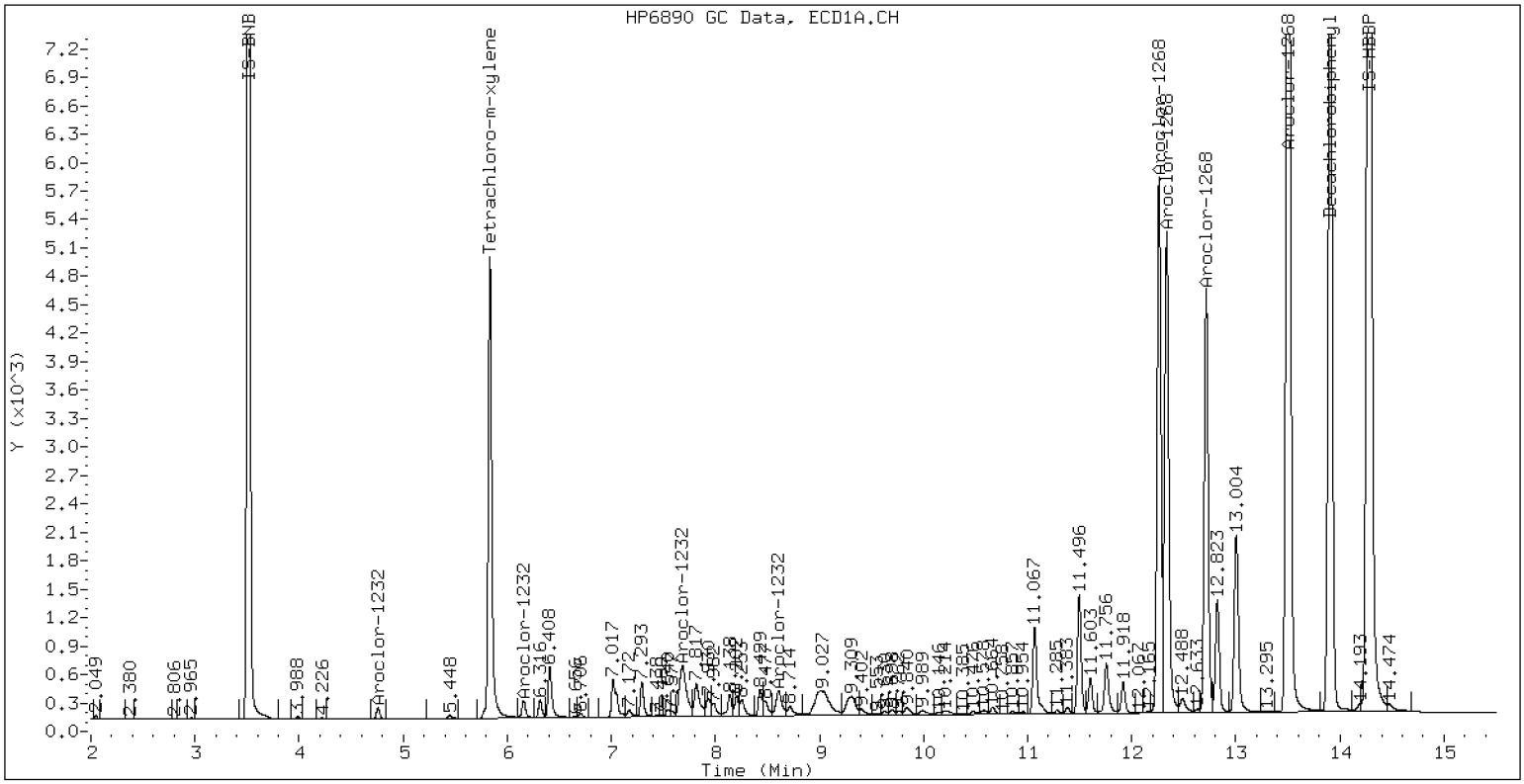
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

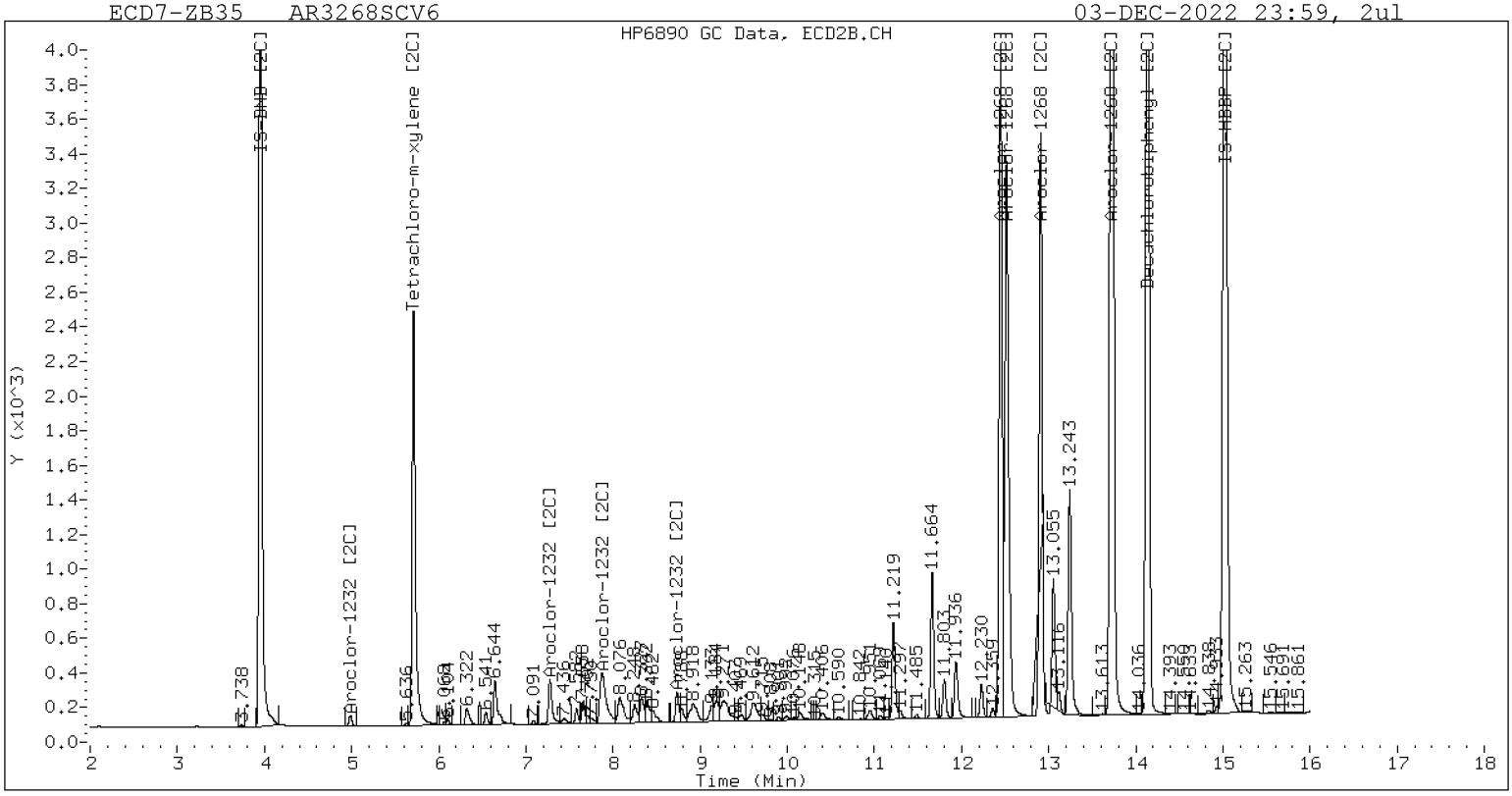
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FL00010
Laboratory ID: SKL0048-SCV1
Sequence: SKL0048
Sequence Name: AR1660SCV1
Standard ID: K007655

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1016	250.00	223	-10.7	20.00
Aroclor 1016 [2C]	250.00	216	-13.5	20.00
Aroclor 1260	250.00	285	14.1	20.00
Aroclor 1260 [2C]	250.00	263	5.1	20.00
Decachlorobiphenyl	40.000	39.8	-0.5	20.00
Tetrachlorometaxylene	40.000	36.1	-9.7	20.00
Decachlorobiphenyl [2C]	40.000	38.2	-4.6	20.00
Tetrachlorometaxylene [2C]	40.000	36.1	-9.8	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

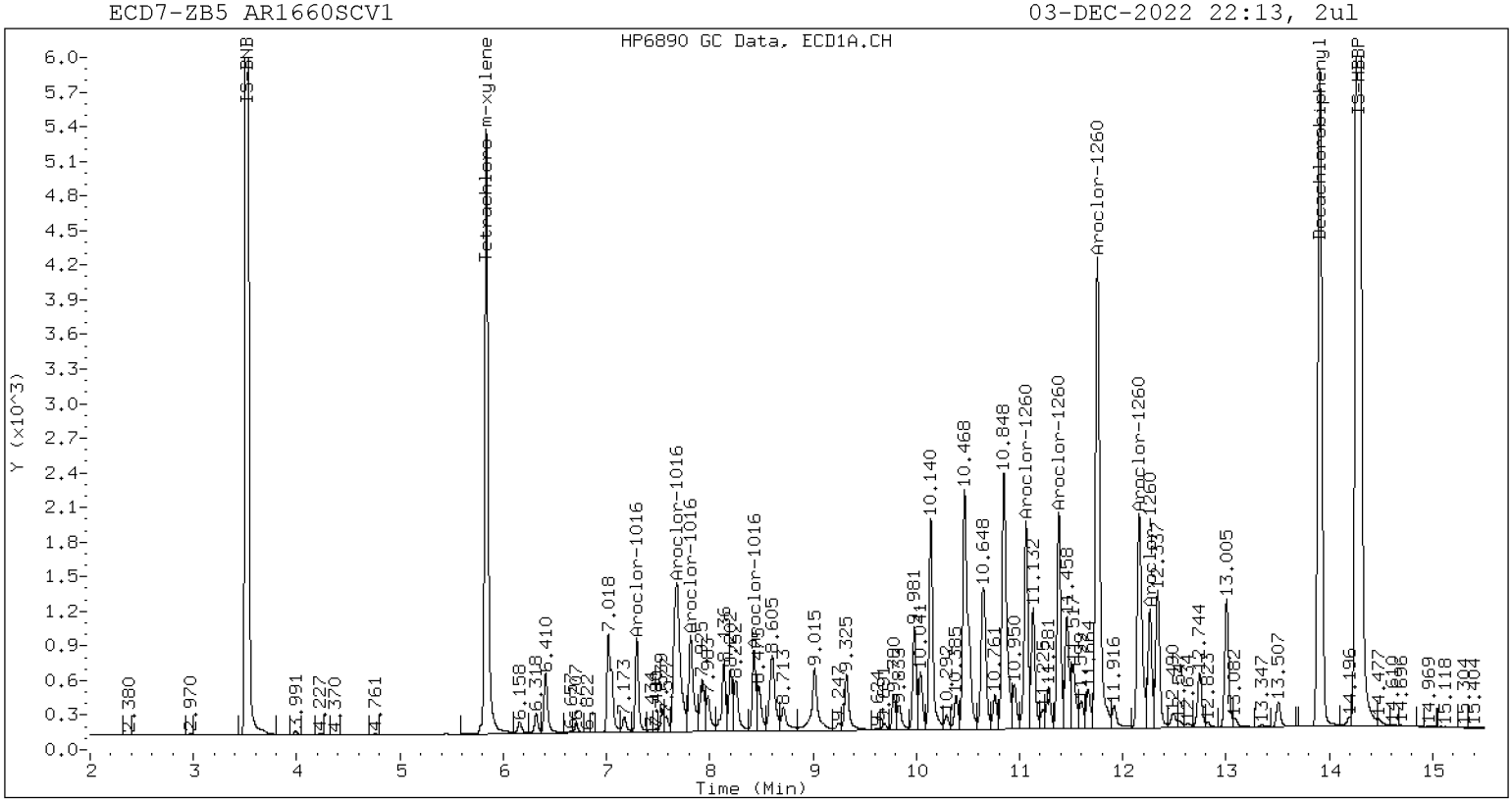
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

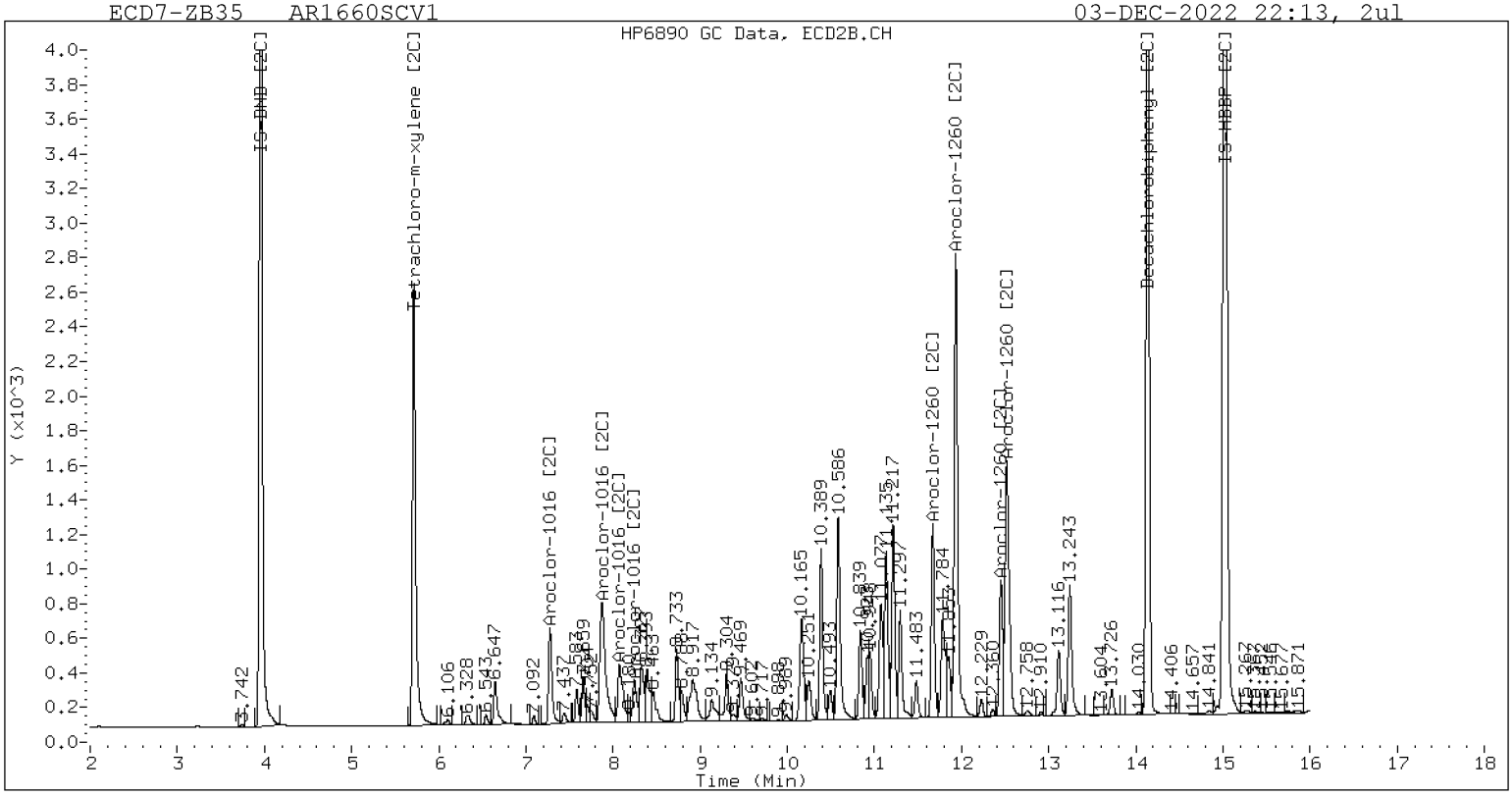
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FL00010
Laboratory ID: SKL0048-SCV2
Sequence: SKL0048
Sequence Name: AR1242SCV2
Standard ID: K007656

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1242	250.00	207	-17.3	20.00
Aroclor 1242 [2C]	250.00	225	-10.0	20.00
Decachlorobiphenyl	40.000	39.1	-2.1	20.00
Tetrachlorometaxylene	40.000	35.6	-11.1	20.00
Decachlorobiphenyl [2C]	40.000	38.0	-5.0	20.00
Tetrachlorometaxylene [2C]	40.000	35.8	-10.5	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

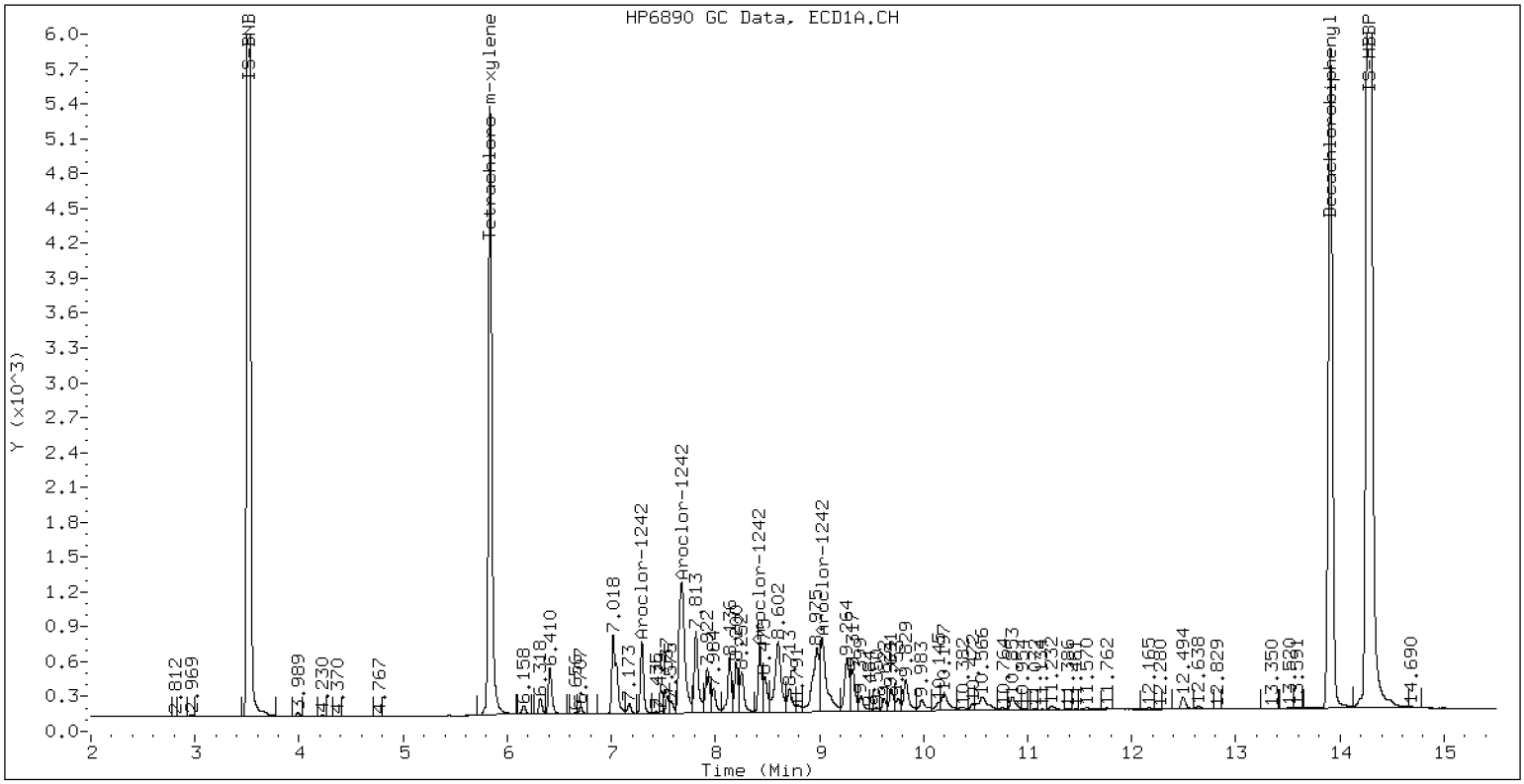
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

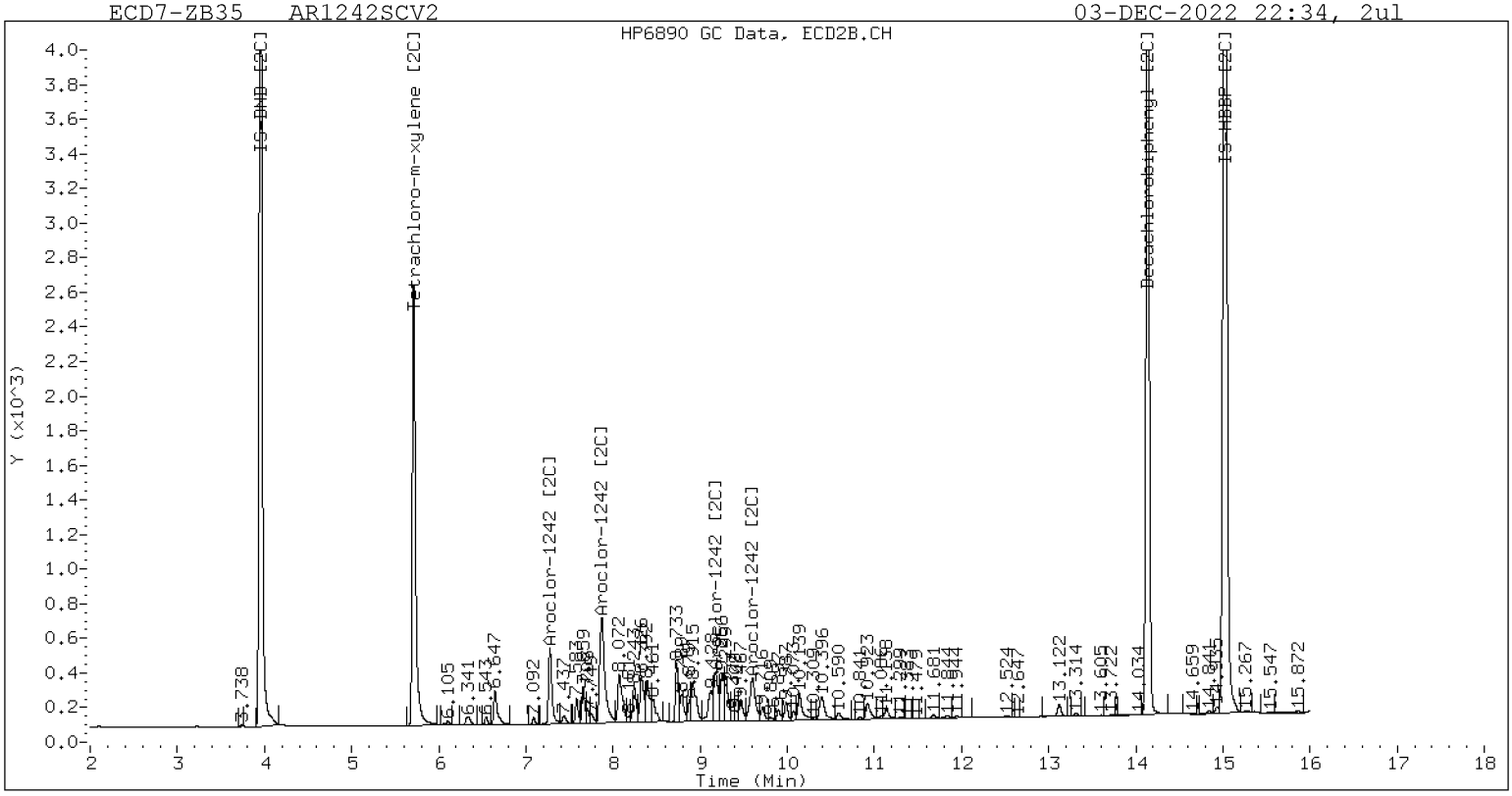
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FL00010
Laboratory ID: SKL0048-SCV3
Sequence: SKL0048
Sequence Name: AR1248SCV3
Standard ID: K007657

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1248	250.00	246	-1.8	20.00
Aroclor 1248 [2C]	250.00	230	-7.9	20.00
Decachlorobiphenyl	40.000	39.3	-1.7	20.00
Tetrachlorometaxylene	40.000	34.7	-13.2	20.00
Decachlorobiphenyl [2C]	40.000	38.1	-4.8	20.00
Tetrachlorometaxylene [2C]	40.000	35.1	-12.3	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7

Total Col1Ave (4 peaks): 245.5 Total Col2Ave (4 peaks): 230.2 RPD = 6

Corrected Ave (3 peaks): 238.8 Corrected Ave (3 peaks): 230.0 RPD = 4

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

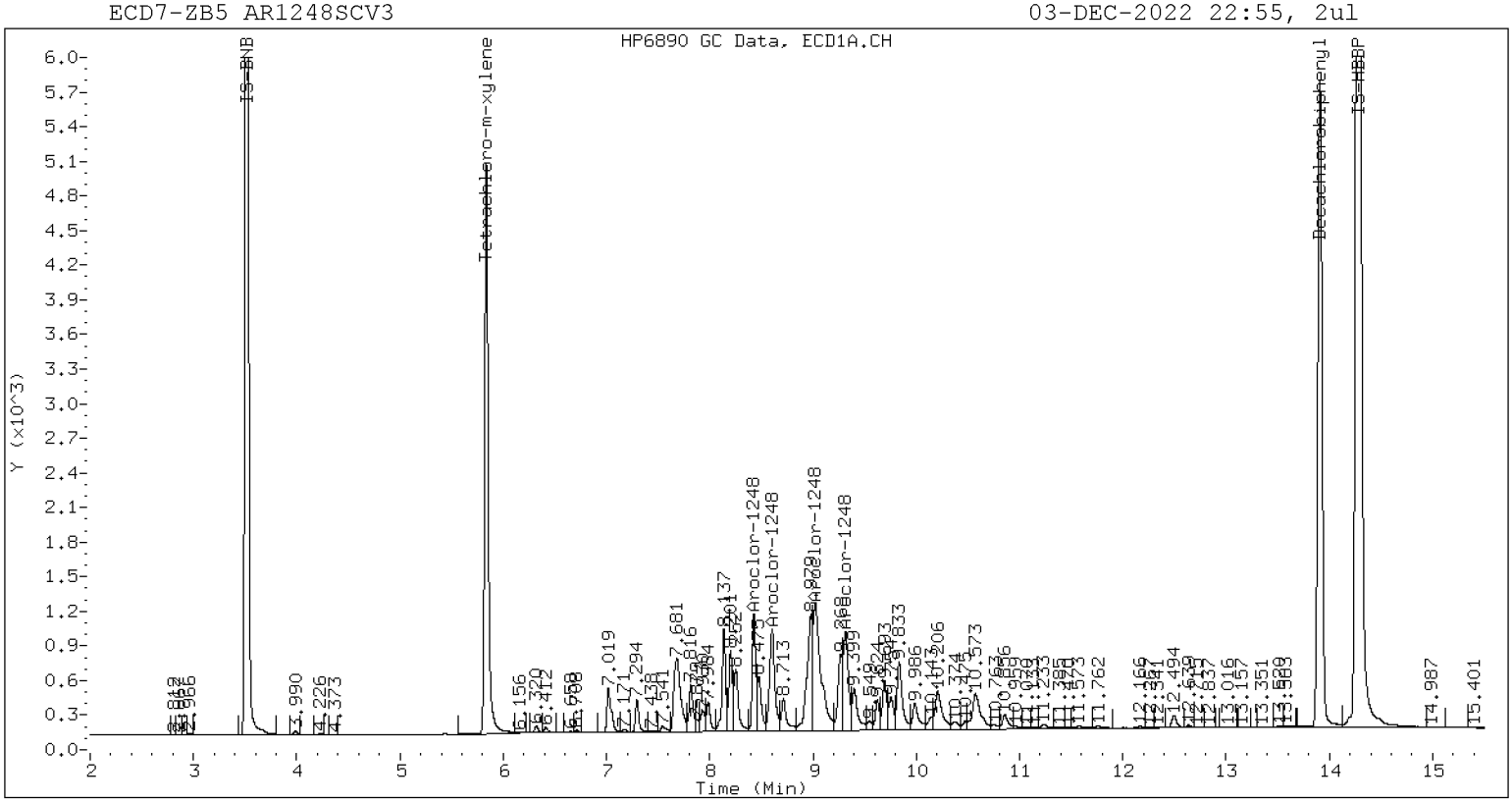
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

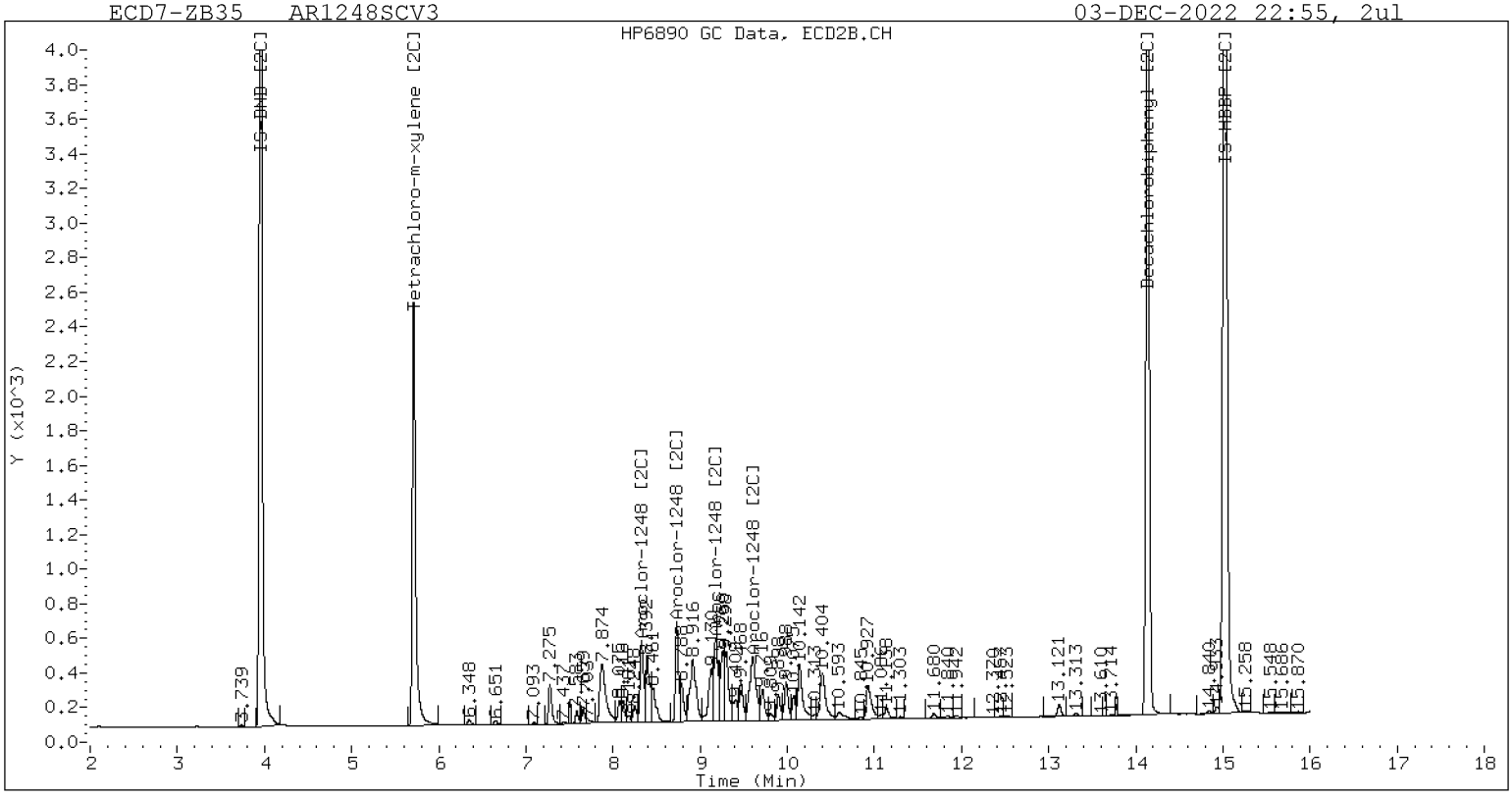
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FL00010
Laboratory ID: SKL0048-SCV4
Sequence: SKL0048
Sequence Name: AR1254SCV4
Standard ID: K007658

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1254	250.00	228	-8.8	20.00
Aroclor 1254 [2C]	250.00	231	-7.7	20.00
Decachlorobiphenyl	40.000	39.5	-1.1	20.00
Tetrachlorometaxylene	40.000	35.5	-11.2	20.00
Decachlorobiphenyl [2C]	40.000	38.1	-4.8	20.00
Tetrachlorometaxylene [2C]	40.000	36.0	-10.0	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2
		Total Col1Ave (5 peaks):			227.9		Total Col2Ave (5 peaks):			230.7 RPD = 1
		Corrected Ave (4 peaks):			222.9		Corrected Ave (4 peaks):			223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

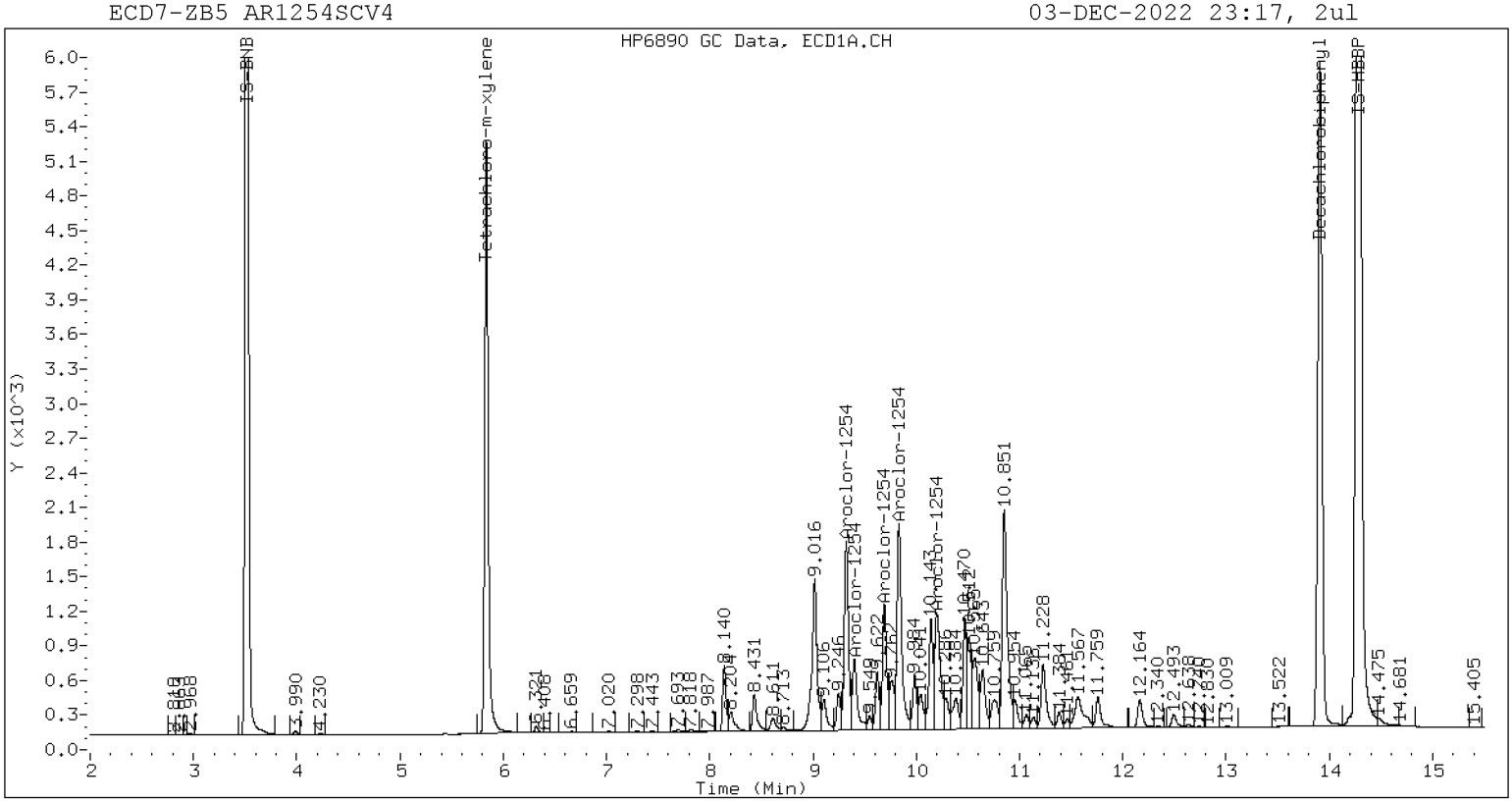
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

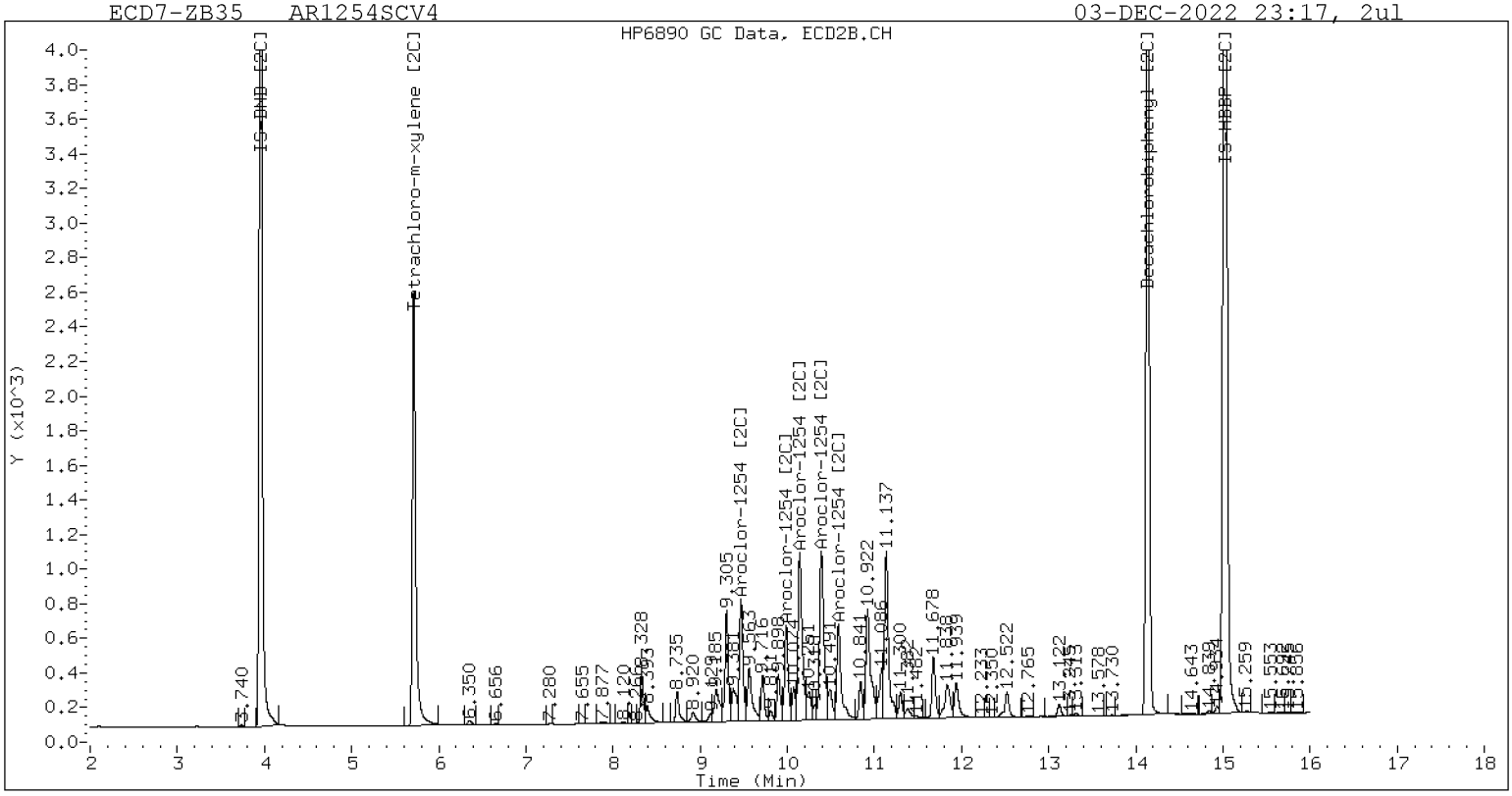
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FL00010
Laboratory ID: SKL0048-SCV5
Sequence: SKL0048
Sequence Name: AR2162SCV5
Standard ID: K007659

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1221	250.00	237	-5.3	20.00
Aroclor 1221 [2C]	250.00	236	-5.7	20.00
Aroclor 1262	500.00	469	-6.2	20.00
Aroclor 1262 [2C]	500.00	464	-7.1	20.00
Decachlorobiphenyl	40.000	40.0	-0.04	20.00
Tetrachlorometaxylene	40.000	36.1	-9.8	20.00
Decachlorobiphenyl [2C]	40.000	38.4	-3.9	20.00
Tetrachlorometaxylene [2C]	40.000	35.7	-10.8	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
Total Col1Ave (3 peaks):					236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
Total Col1Ave (4 peaks):					469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
Corrected Ave (3 peaks):					466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

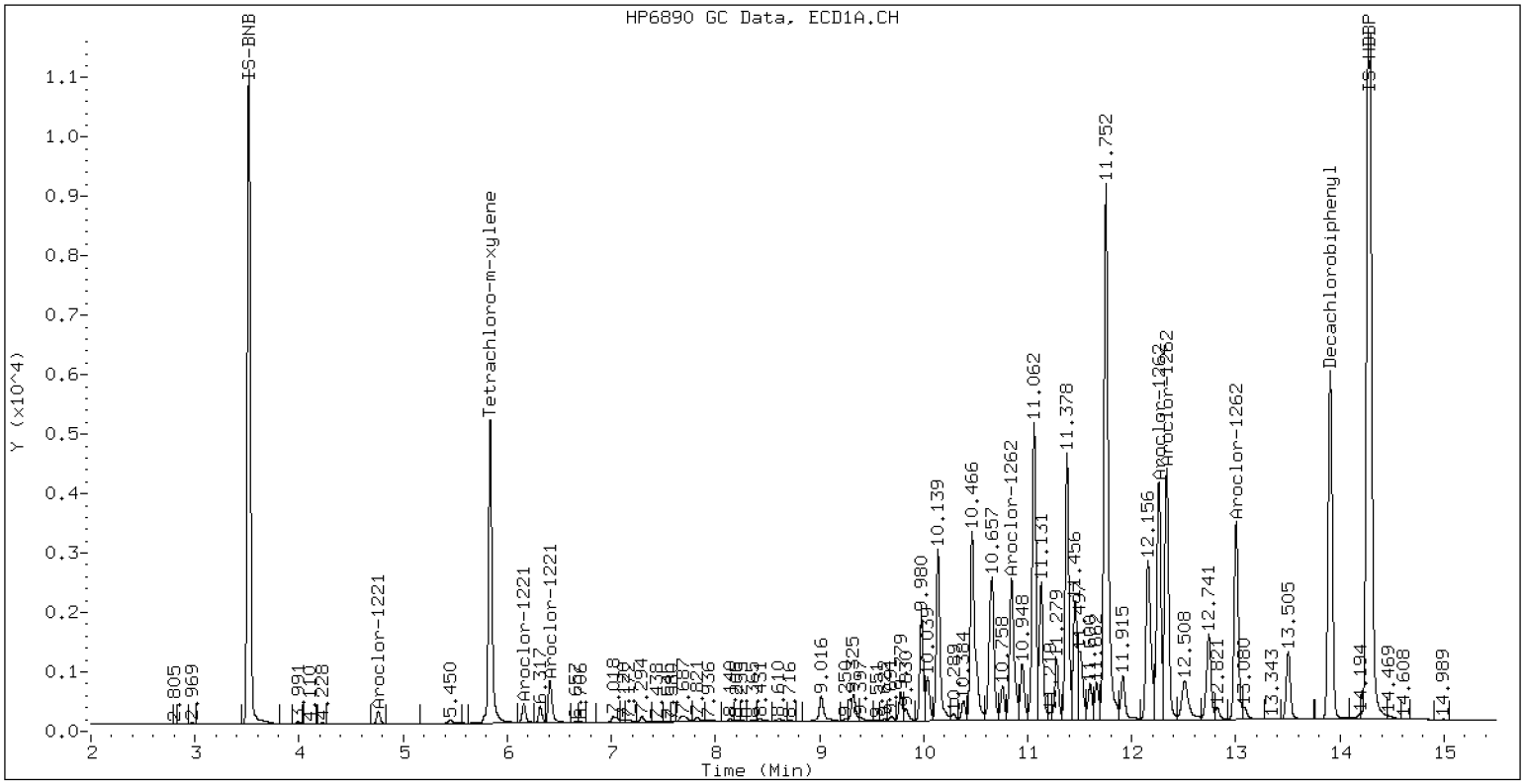
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

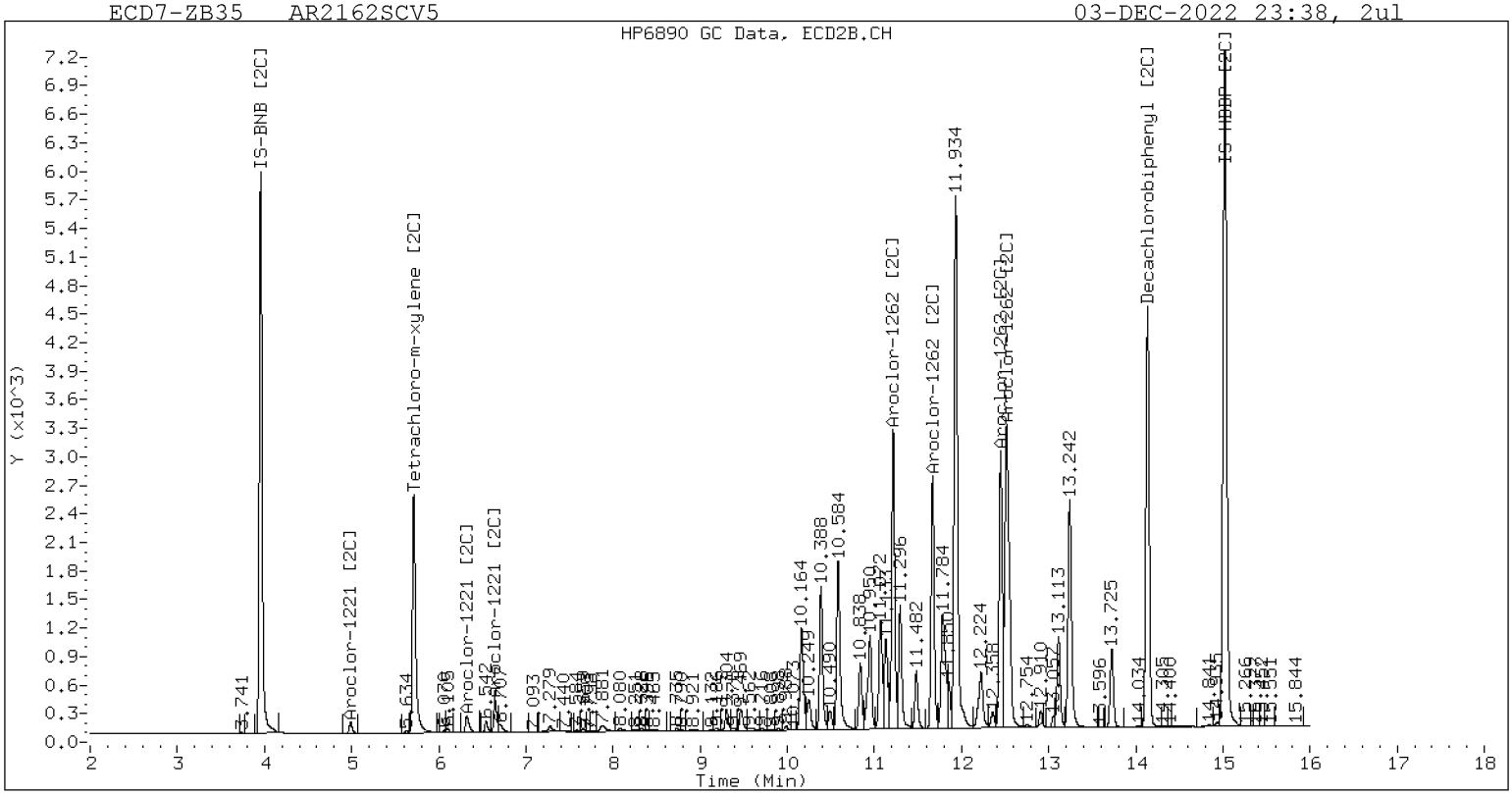
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FL00010
Laboratory ID: SKL0048-SCV6
Sequence: SKL0048
Sequence Name: AR3268SCV6
Standard ID: K007660

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1232	250.00	217	-13.4	20.00
Aroclor 1232 [2C]	250.00	230	-7.9	20.00
Aroclor 1268	250.00	231	-7.5	20.00
Aroclor 1268 [2C]	250.00	228	-8.9	20.00
Decachlorobiphenyl	40.000	56.2	40.4	20.00
Tetrachlorometaxylene	40.000	34.5	-13.8	20.00
Decachlorobiphenyl [2C]	40.000	54.9	37.3	20.00
Tetrachlorometaxylene [2C]	40.000	34.2	-14.4	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

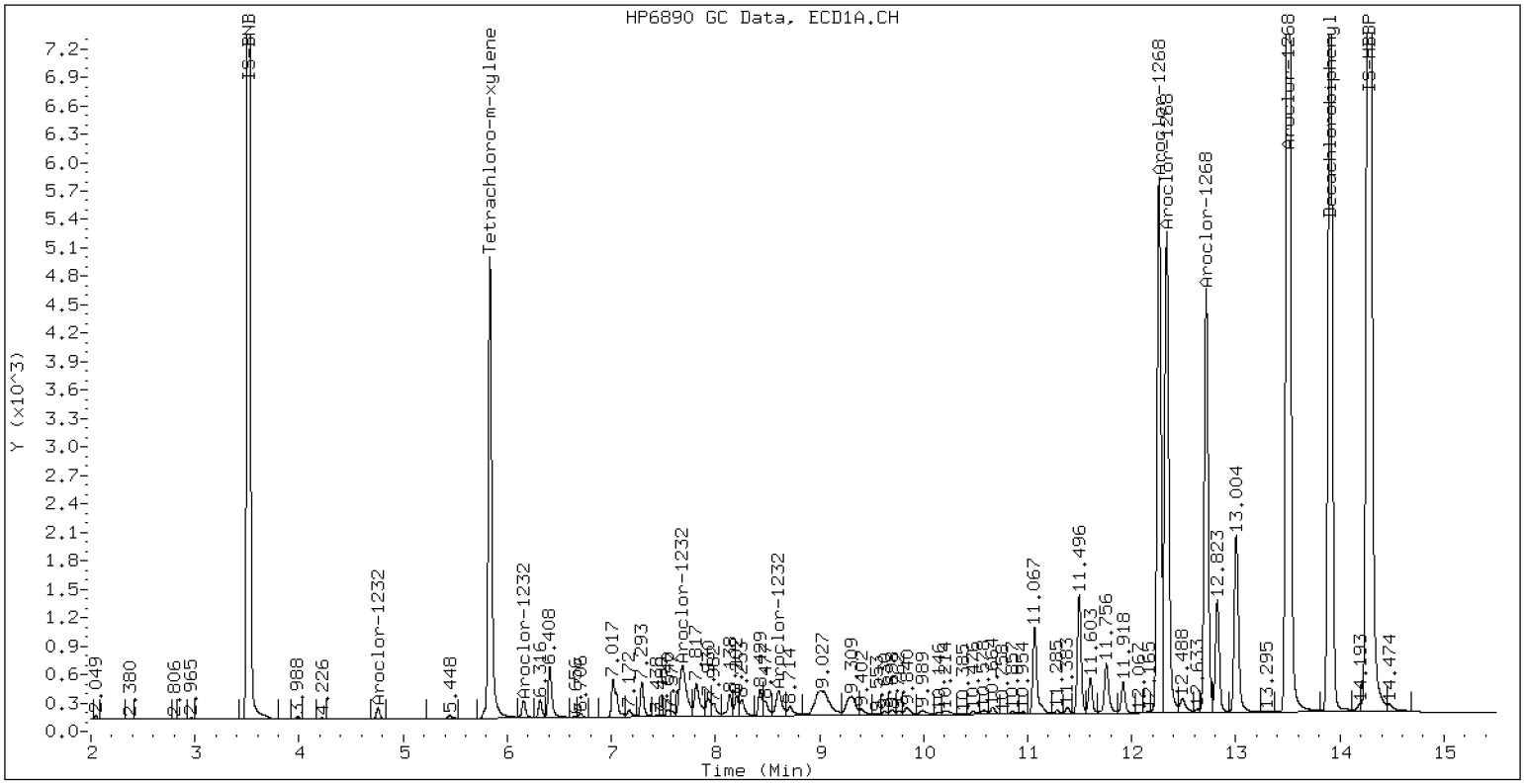
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

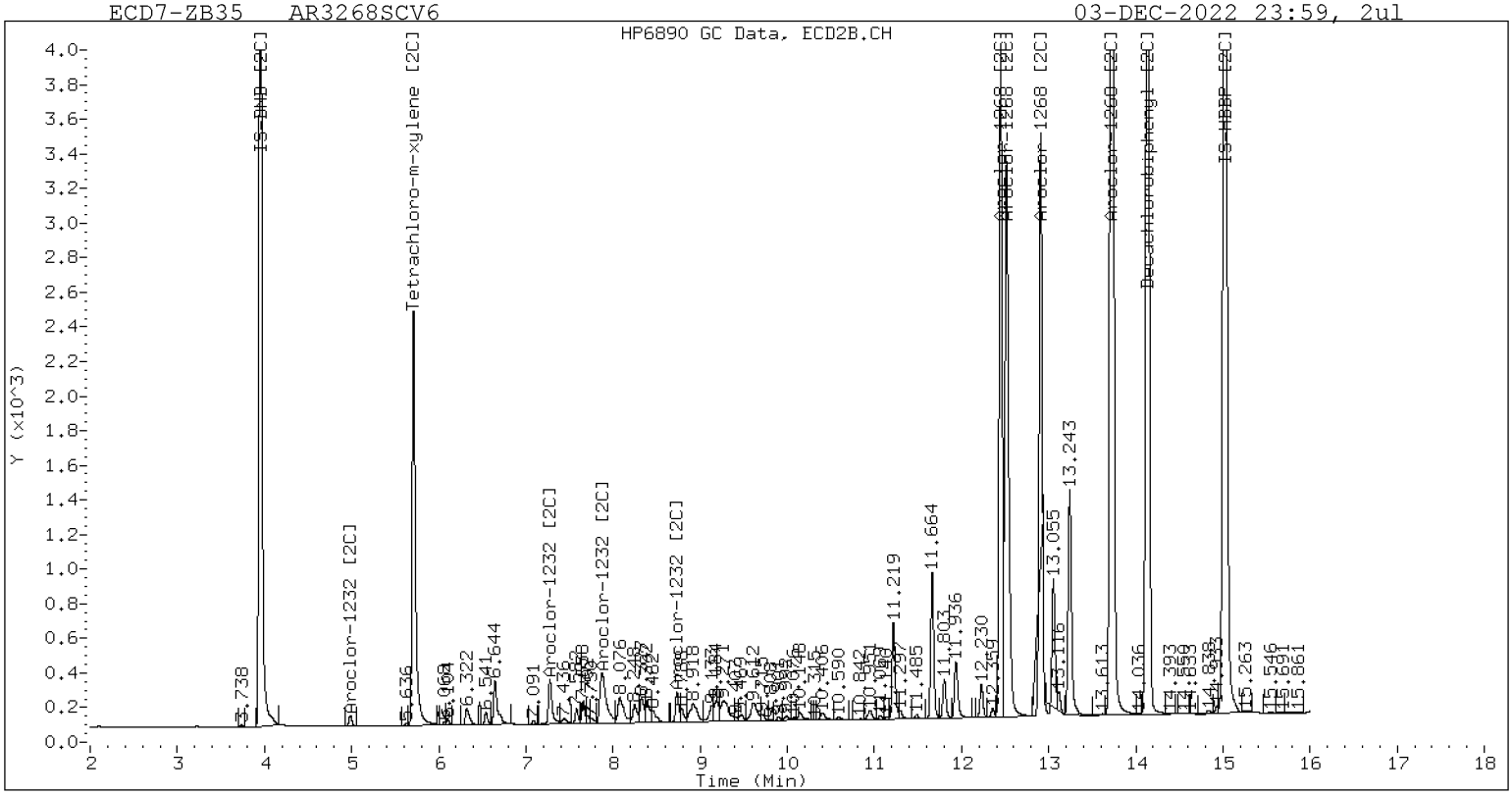
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112302ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/11/23
Lab Sample ID:	SLA0136-ICV1	Injection Time:	09:17
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	297	0.0576965	0.0689019		19.0	+/-20
Aroclor-1254 (1)	A	250.00	289	0.0704377	0.0813890			
Aroclor-1254 (2)	A	250.00	333	0.0273935	0.0365350			
Aroclor-1254 (3)	A	250.00	232	0.0444885	0.0413666			
Aroclor-1254 (4)	A	250.00	317	0.0867185	0.1100772			
Aroclor-1254 (5)	A	250.00	316	0.0594444	0.0751419			
Aroclor 1254 [2C]	A	250.00	297	0.0638047	0.0753843		18.7	+/-20
Aroclor-1254 (1) [2C]	A	250.00	280	0.0515798	0.0576991			
Aroclor-1254 (2) [2C]	A	250.00	301	0.0414689	0.0499004			
Aroclor-1254 (3) [2C]	A	250.00	276	0.0891370	0.0982815			
Aroclor-1254 (4) [2C]	A	250.00	311	0.0923140	0.1147953			
Aroclor-1254 (5) [2C]	A	250.00	316	0.0445236	0.0562451			
Decachlorobiphenyl	A	40.000	42.9	0.7333327	0.7858020		7.3	+/-20
Tetrachlorometaxylene	A	40.000	37.1	1.1336710	1.0525280		-7.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.3	1.1358180	1.1731150		3.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.5	1.0966080	1.0007470		-8.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112302ECD7.D
Data file 2: /230111.b/230111.b/01112302ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 11-JAN-2023 09:17
Report Date: 01/12/2023 12:15
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	202961	5.707	-0.000	154827	37.1	36.5	1.7	Tetrachloro-m-xylene
13.906	0.002	342137	14.128	-0.000	347858	42.9	41.3	3.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	385664	-13.8
Hexabromobiphenyl	798898	870797	9.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	309423	24.2
Hexabromobiphenyl	362541	593050	63.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.316	0.000	98090	288.9	1	9.461	0.000	55792	279.7
Aroclor-1254	2	9.394	0.001	44032	333.4	2	9.981	0.000	48251	300.8
Aroclor-1254	3	9.686	0.000	49855	232.5	3	10.133	0.000	95033	275.6
Aroclor-1254	4	9.825	0.000	132665	317.3	4	10.383	0.000	111001	310.9
Aroclor-1254	5	10.191	0.000	90561	316.0	5	10.580	0.000	54386	315.8

Total Col1Ave (5 peaks): 297.6 Total Col2Ave (5 peaks): 296.6 RPD = 0

Corrected Ave (4 peaks): 288.7 Corrected Ave (4 peaks): 291.8 RPD = 1

CalAmt %D: 19.0 CalAmt %D: 18.6

Total PCB Area Col1 (5.932 - 13.804) = 1380601 Col1 Total PCB = 0.4 ppm*

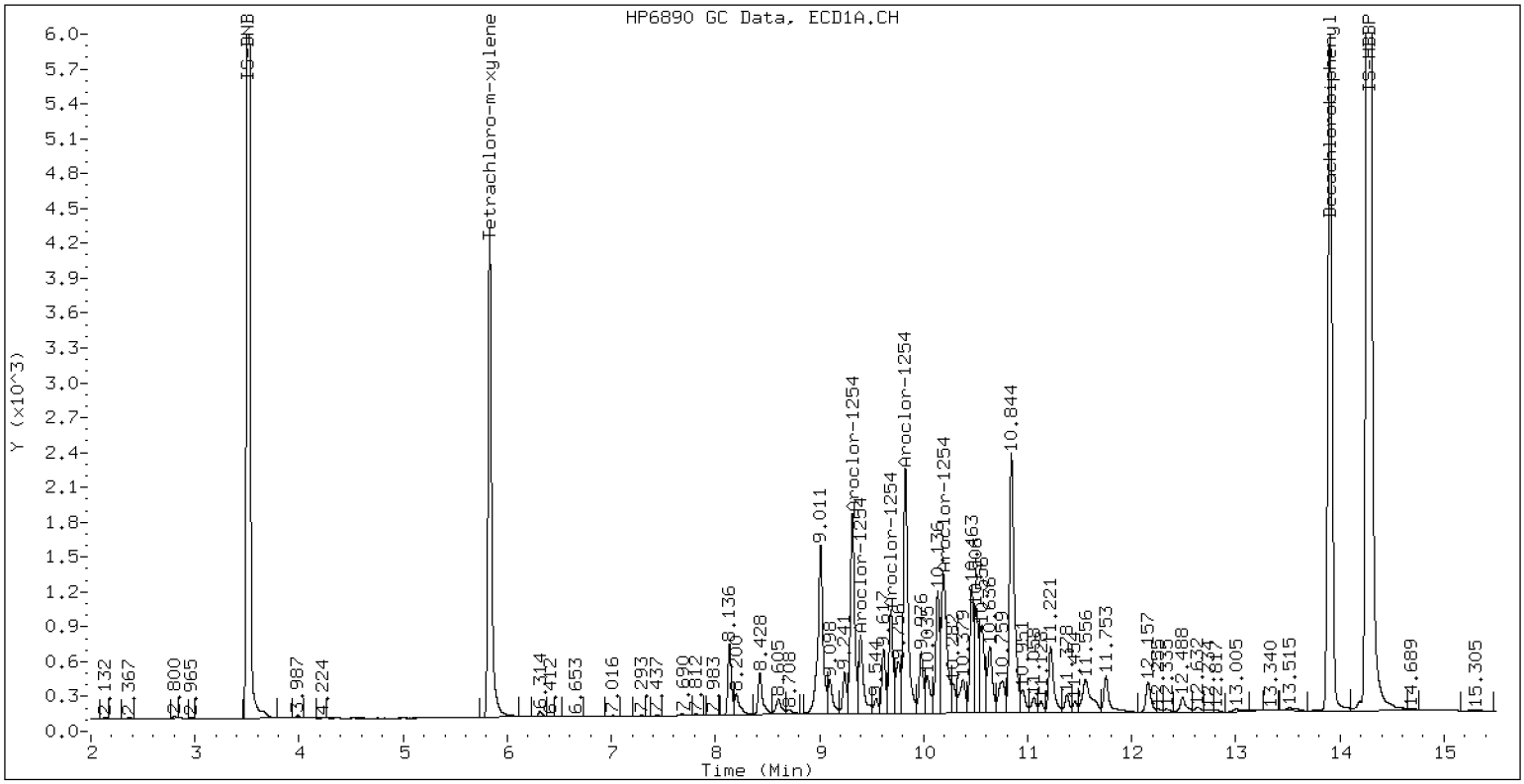
Total PCB Area Col2 (5.807 - 14.028) = 1001360 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

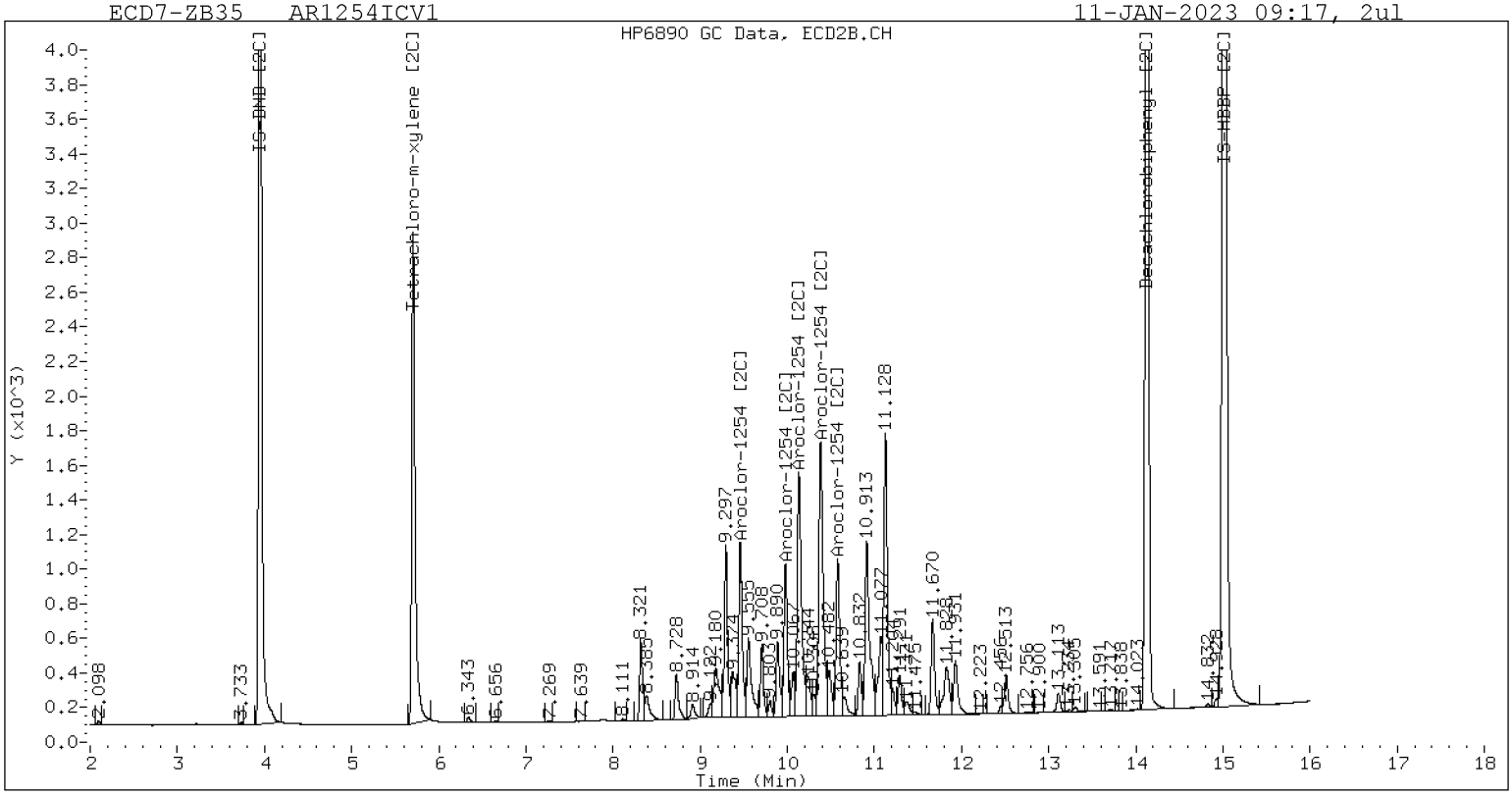
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 11-JAN-2023 09:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1 11-JAN-2023 09:17, 2ul

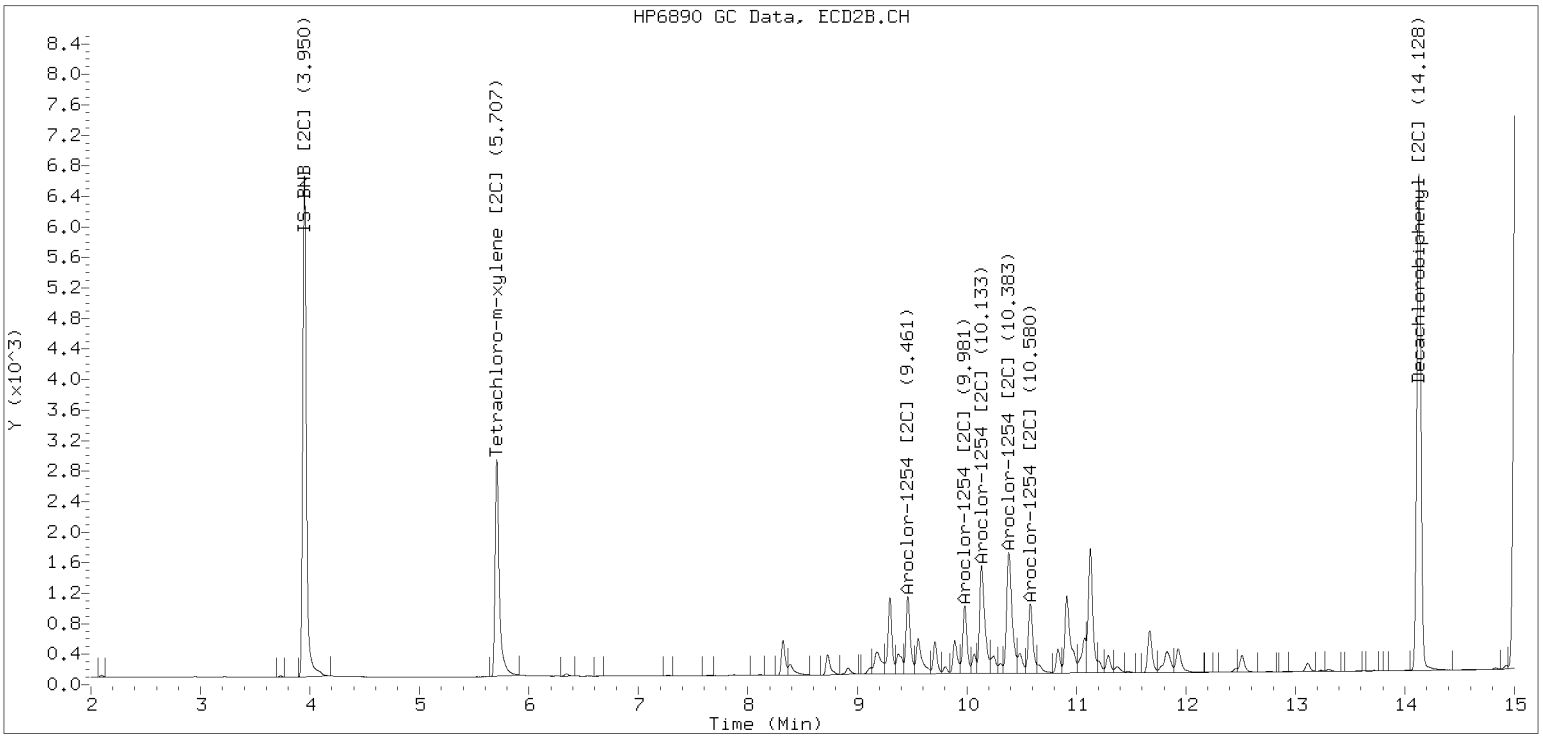


ZB-35 Manual Integration: YES

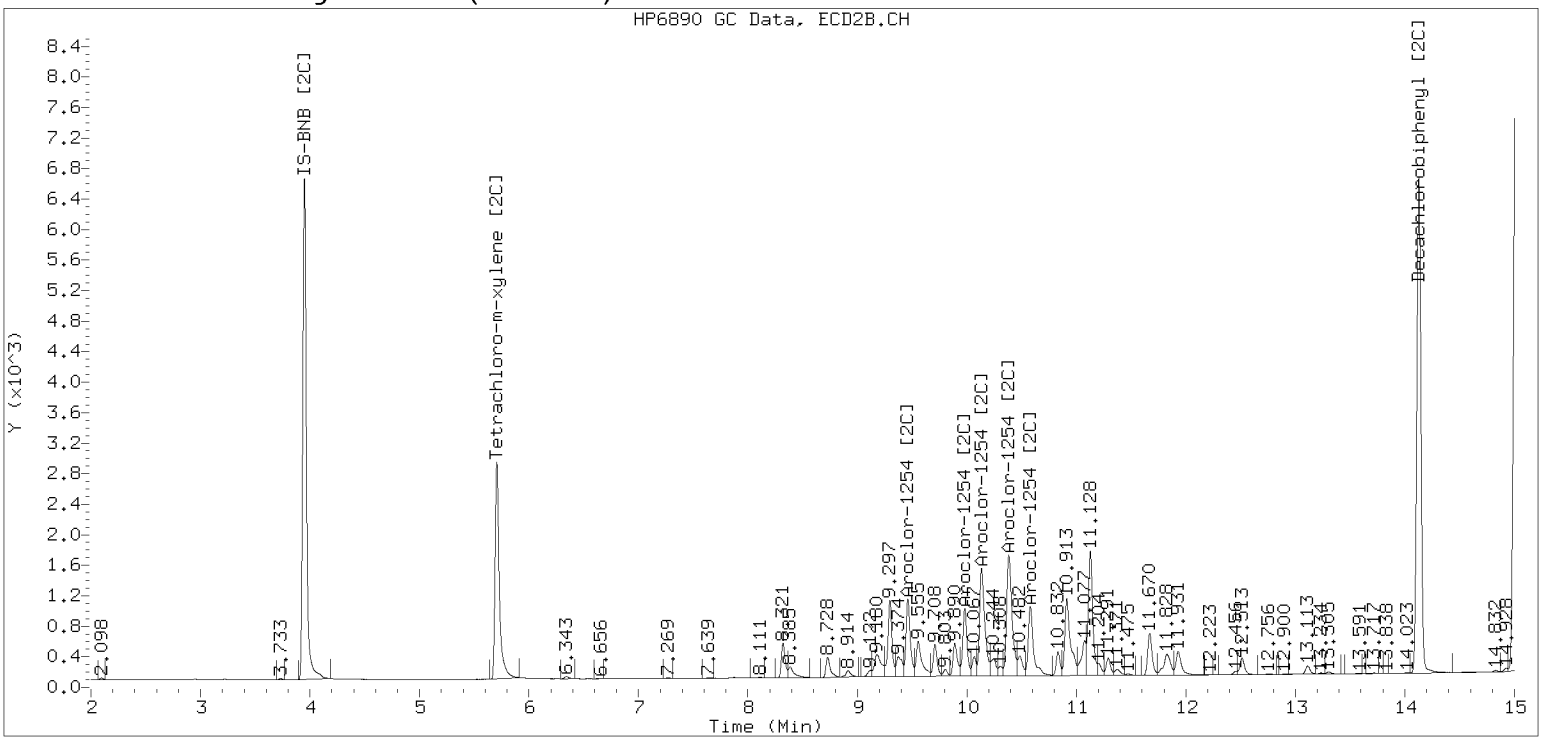
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230111.b/230111.b/01112302ECD7.D Injection Date: 11-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112303ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/11/23
Lab Sample ID:	SLA0136-ICV2	Injection Time:	09:38
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	280	0.0441939	0.0487883		11.8	+/-20
Aroclor-1016 (1)	A	250.00	272	0.0266860	0.0290887		8.8	
Aroclor-1016 (2)	A	250.00	267	0.0861572	0.0919870		6.8	
Aroclor-1016 (3)	A	250.00	290	0.0390425	0.0452911		16.0	
Aroclor-1016 (4)	A	250.00	289	0.0248899	0.0287865		15.6	
Aroclor 1016 [2C]	A	250.00	255	0.0467310	0.0472963		2.0	+/-20
Aroclor-1016 (1) [2C]	A	250.00	253	0.0409030	0.0413782		1.2	
Aroclor-1016 (2) [2C]	A	250.00	250	0.0882154	0.0882621		0.0	
Aroclor-1016 (3) [2C]	A	250.00	255	0.0378846	0.0386567		2.0	
Aroclor-1016 (4) [2C]	A	250.00	262	0.0199212	0.0208880		4.8	
Aroclor 1260	A	250.00	263	0.0390342	0.0409163		5.0	+/-20
Aroclor-1260 (1)	A	250.00	255	0.0291201	0.0297148		2.0	
Aroclor-1260 (2)	A	250.00	263	0.0301181	0.0317126		5.2	
Aroclor-1260 (3)	A	250.00	264	0.0791351	0.0834798		5.6	
Aroclor-1260 (4)	A	250.00	259	0.0403003	0.0417049		3.6	
Aroclor-1260 (5)	A	250.00	272	0.0164974	0.0179696		8.8	
Aroclor 1260 [2C]	A	250.00	230	0.0617619	0.0563793		-7.9	+/-20
Aroclor-1260 (1) [2C]	A	250.00	228	0.0422283	0.0385407		-8.8	
Aroclor-1260 (2) [2C]	A	250.00	222	0.1059643	0.0939518		-11.2	
Aroclor-1260 (3) [2C]	A	250.00	236	0.0282173	0.0266887		-5.6	
Aroclor-1260 (4) [2C]	A	250.00	235	0.0706376	0.0663359		-6.0	
Decachlorobiphenyl	A	40.000	42.9	0.7333327	0.7863606		7.3	+/-20
Tetrachlorometaxylene	A	40.000	41.4	1.1336710	1.1738220		3.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.2	1.1358180	1.1685280		3.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.8	1.0966080	1.1199840		2.0	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112303ECD7.D
Data file 2: /230111.b/230111.b/01112303ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 11-JAN-2023 09:38
Report Date: 01/12/2023 12:15
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	208823	5.708	0.001	159414	41.4	40.9	1.4	Tetrachloro-m-xylene
13.904	-0.000	329178	14.129	0.001	318178	42.9	41.2	4.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	355800	-20.5
Hexabromobiphenyl	798898	837219	4.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	284672	14.3
Hexabromobiphenyl	362541	544579	50.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	-0.005	32343	272.5	1	7.270	-0.000	36810	252.9
Aroclor-1016	2	7.679	-0.005	102278	266.9	2	7.872	0.001	78518	250.1
Aroclor-1016	3	7.812	-0.005	50358	290.0	3	8.071	-0.000	34389	255.1
Aroclor-1016	4	8.424	-0.005	32007	289.1	4	8.242	-0.000	18582	262.1
Total Col1Ave (4 peaks):					279.6	Total Col2Ave (4 peaks):				255.1 RPD = 9
Corrected Ave (3 peaks):					276.2	Corrected Ave (3 peaks):				252.7 RPD = 9
CalAmt %D:					11.9	CalAmt %D:				2.0
Aroclor-1260	1	11.058	-0.004	77743	255.1	1	11.663	0.001	65589	228.2
Aroclor-1260	2	11.374	-0.003	82970	263.2	2	11.926	0.000	159888	221.7
Aroclor-1260	3	11.747	-0.005	218409	263.7	3	12.446	0.001	45419	236.5
Aroclor-1260	4	12.153	-0.005	109113	258.7	4	12.511	0.001	112891	234.8
Aroclor-1260	5	12.257	-0.005	47014	272.3	NS	---			----
Total Col1Ave (5 peaks):					262.6	Total Col2Ave (4 peaks):				230.3 RPD = 13
Corrected Ave (4 peaks):					260.2	Corrected Ave (3 peaks):				228.2 RPD = 13
CalAmt %D:					5.0	CalAmt %D:				-7.9

Total PCB Area Col1 (5.932 - 13.804) = 2202416 Col1 Total PCB = 0.6 ppm*

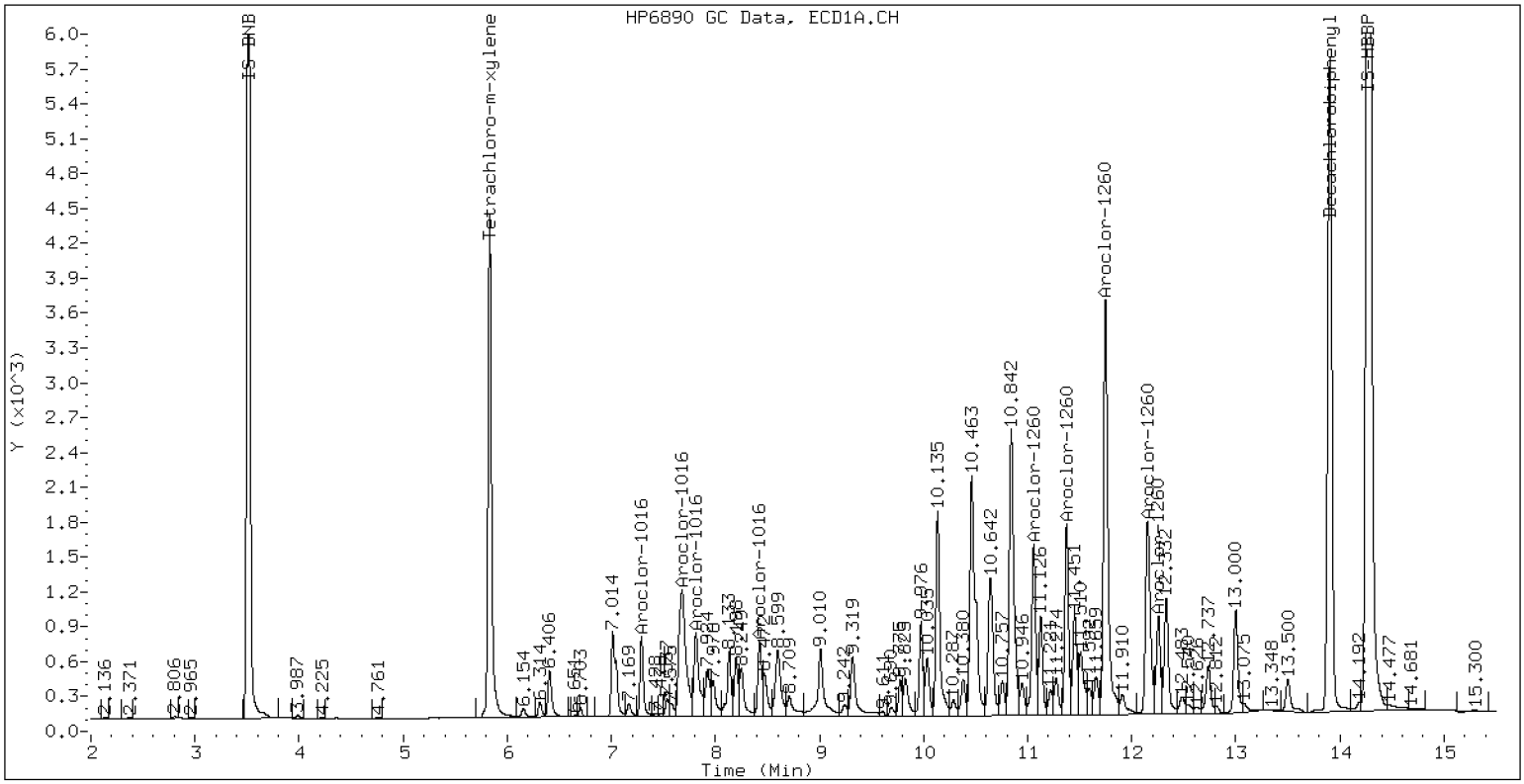
Total PCB Area Col2 (5.807 - 14.028) = 1530749 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

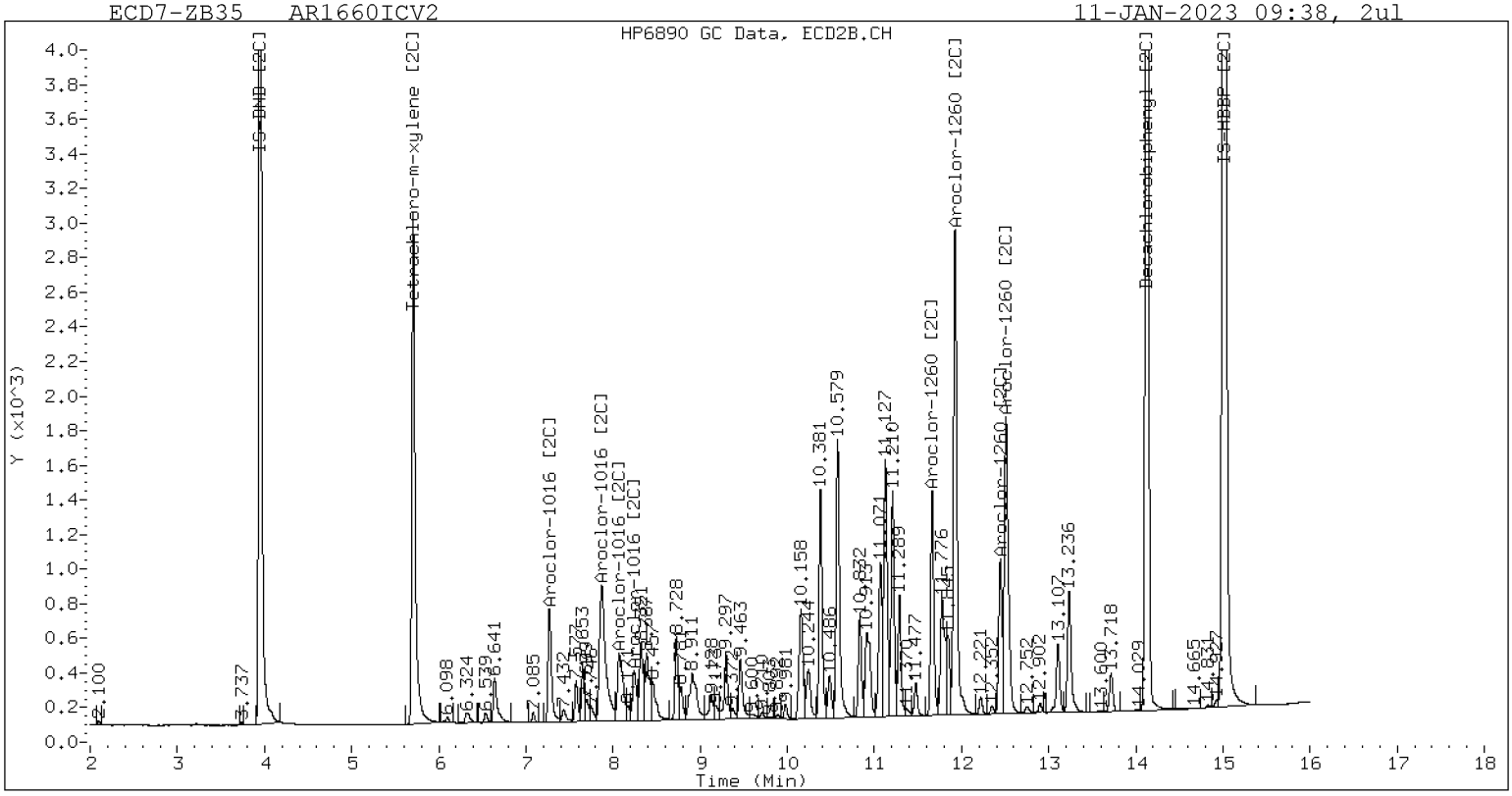
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 11-JAN-2023 09:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 11-JAN-2023 09:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032222ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV1	Injection Time:	22:13
Sequence Name:	AR1660SCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	223	0.0441939	0.0392295		-10.7	+/-20
Aroclor 1016 [2C]	A	250.00	216	0.0467310	0.0403426		-13.5	+/-20
Aroclor 1260	A	250.00	285	0.0390342	0.0441447		14.1	+/-20
Aroclor 1260 [2C]	A	250.00	263	0.0617619	0.0651122		5.1	+/-20
Decachlorobiphenyl	A	40.000	39.8	0.7333327	0.7297174		-0.5	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0237520		-9.7	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.2	1.1358180	1.0840850		-4.6	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.1	1.0966080	0.9886519		-9.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

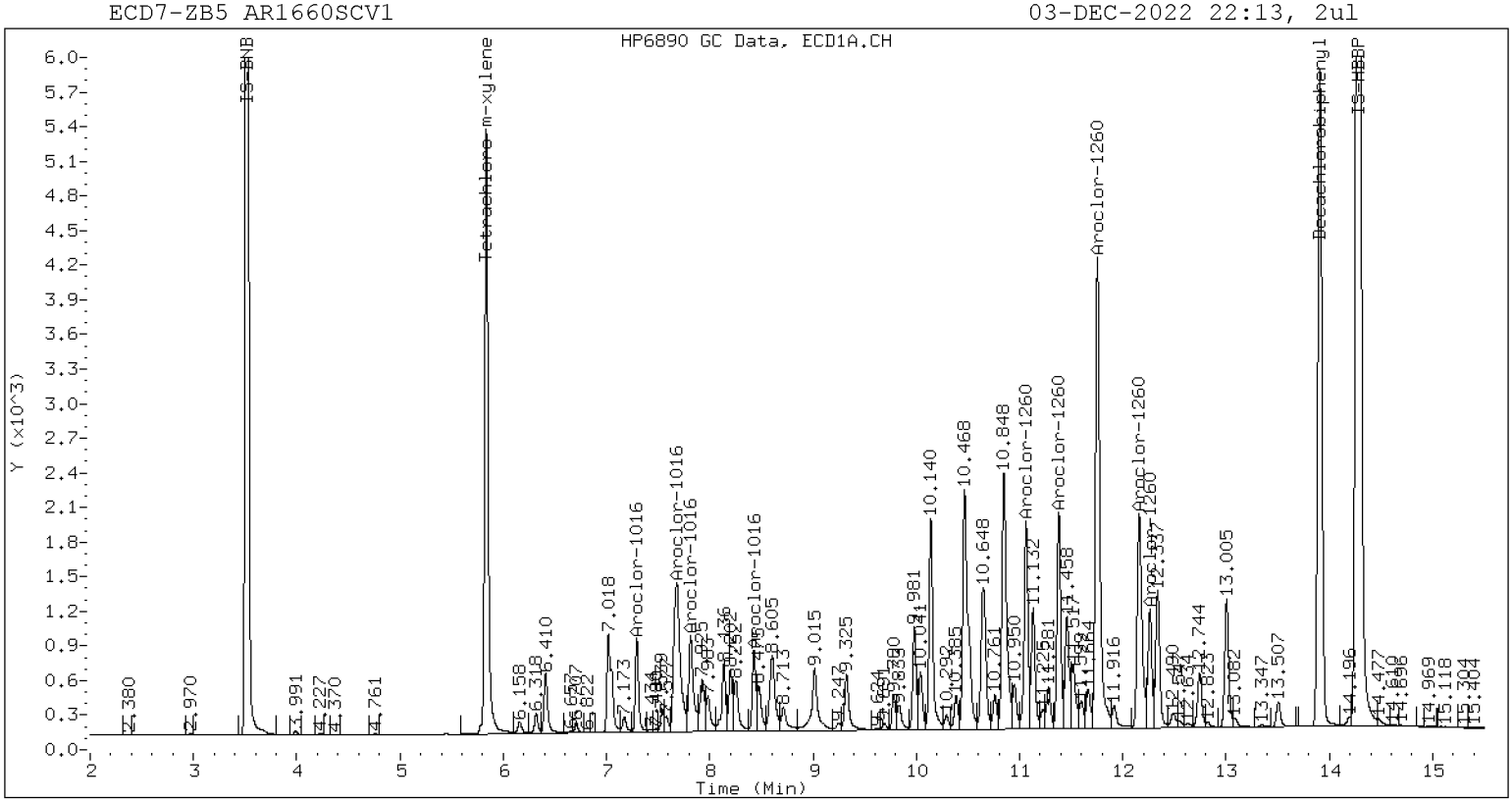
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

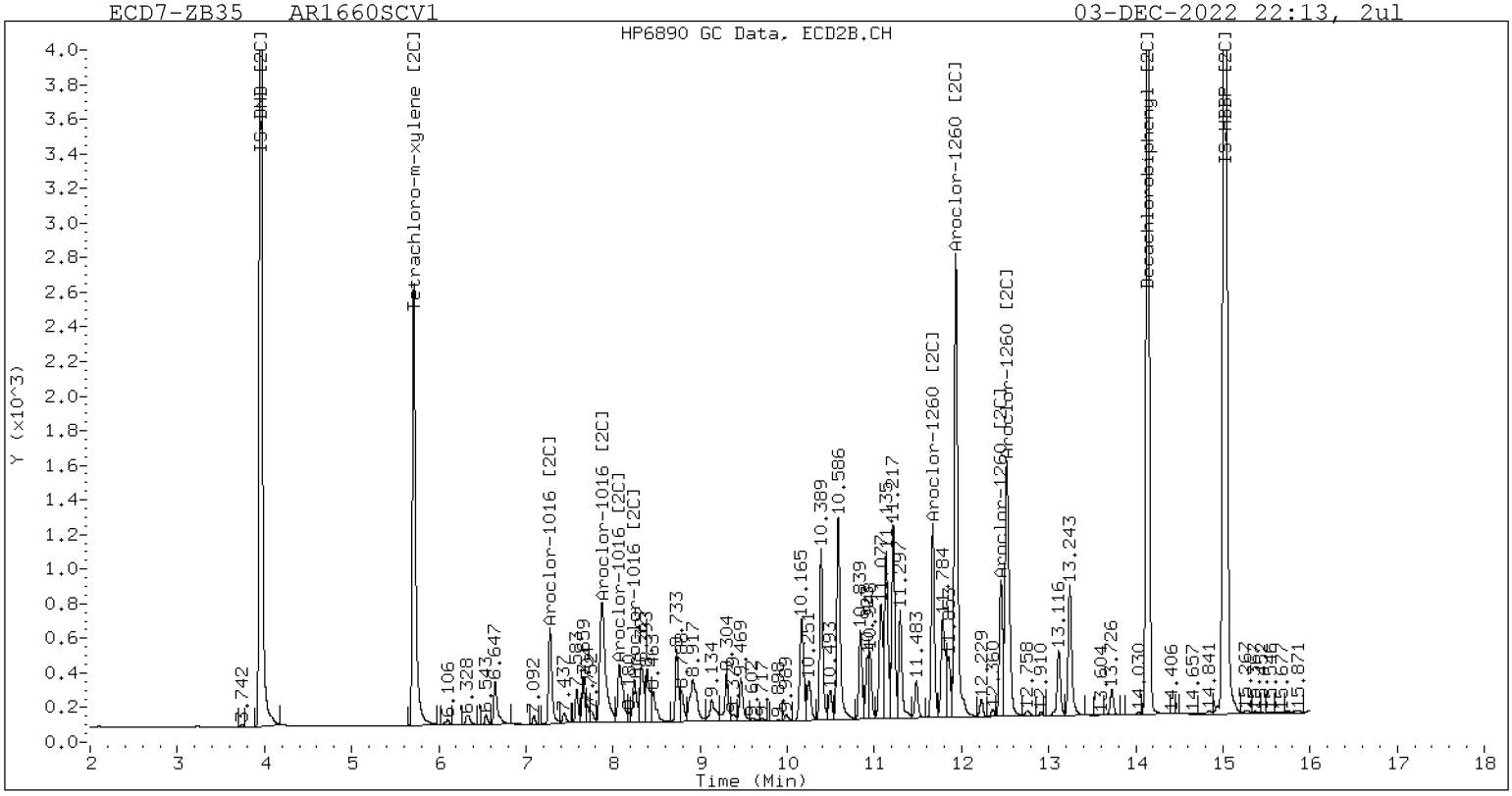
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032223ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV2	Injection Time:	22:34
Sequence Name:	AR1242SCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	207	0.0396000	0.0328545		-17.3	+/-20
Aroclor 1242 [2C]	A	250.00	225	0.0391981	0.0342776		-10.0	+/-20
Decachlorobiphenyl	A	40.000	39.1	0.7333327	0.7176455		-2.1	+/-20
Tetrachlorometaxylene	A	40.000	35.6	1.1336710	1.0081550		-11.1	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.0	1.1358180	1.0793200		-5.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.8	1.0966080	0.9816931		-10.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

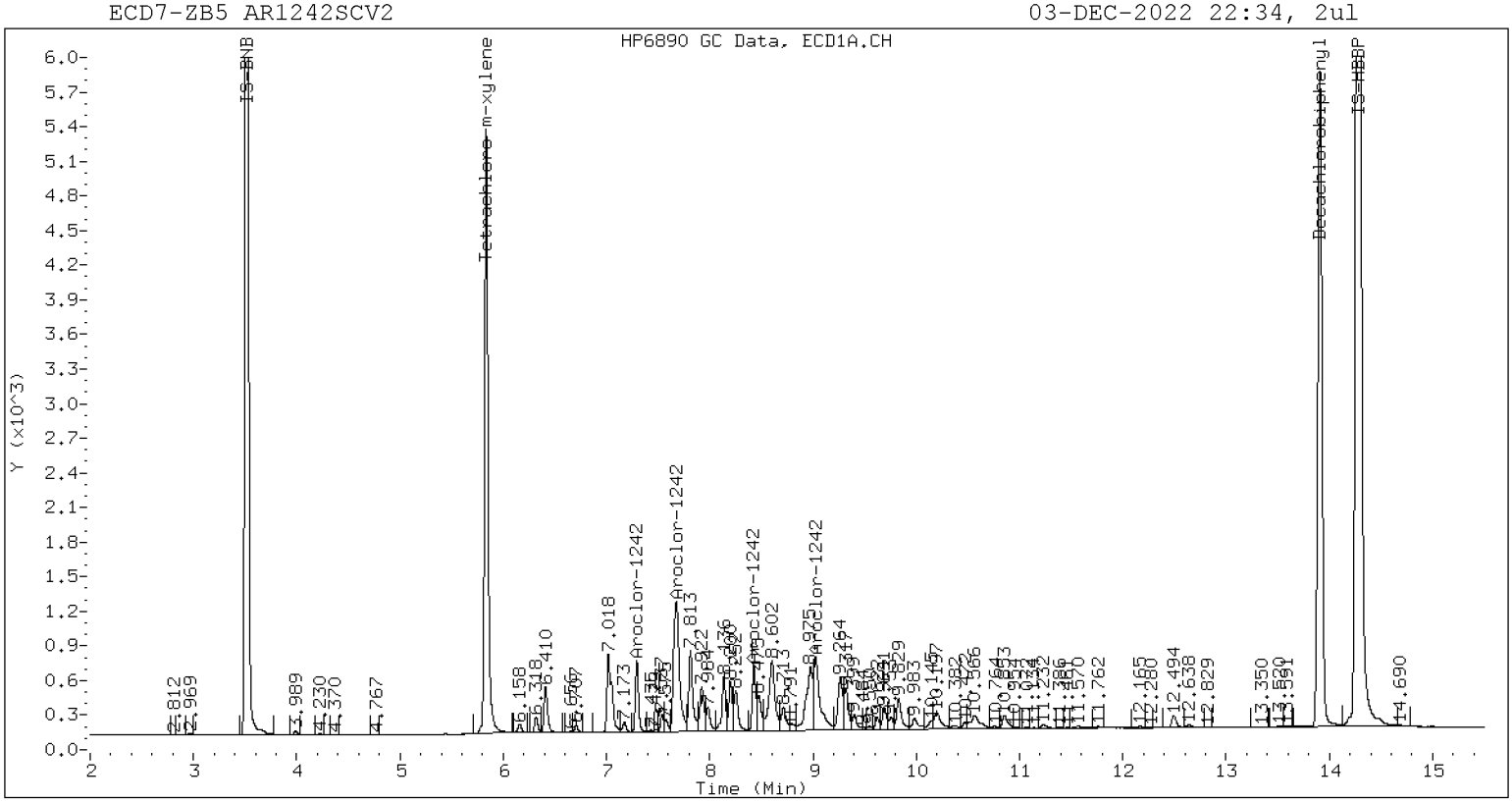
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

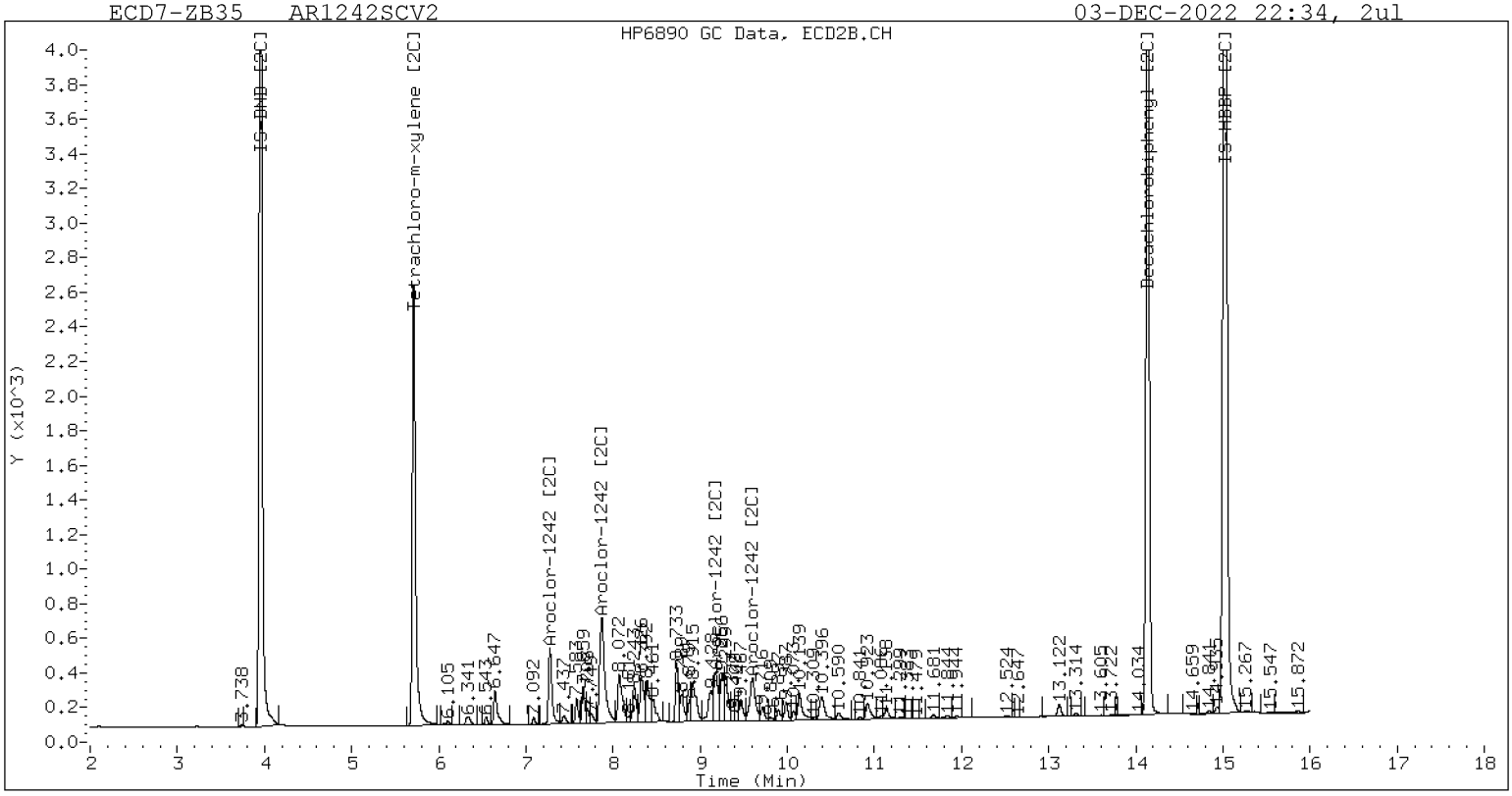
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032224ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV3	Injection Time:	22:55
Sequence Name:	AR1248SCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	246	0.0490062	0.0480752		-1.8	+/-20
Aroclor 1248 [2C]	A	250.00	230	0.0394876	0.0363529		-7.9	+/-20
Decachlorobiphenyl	A	40.000	39.3	0.7333327	0.7205014		-1.7	+/-20
Tetrachlorometaxylene	A	40.000	34.7	1.1336710	0.9836260		-13.2	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0816130		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.1	1.0966080	0.9613644		-12.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7

Total Col1Ave (4 peaks): 245.5 Total Col2Ave (4 peaks): 230.2 RPD = 6

Corrected Ave (3 peaks): 238.8 Corrected Ave (3 peaks): 230.0 RPD = 4

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

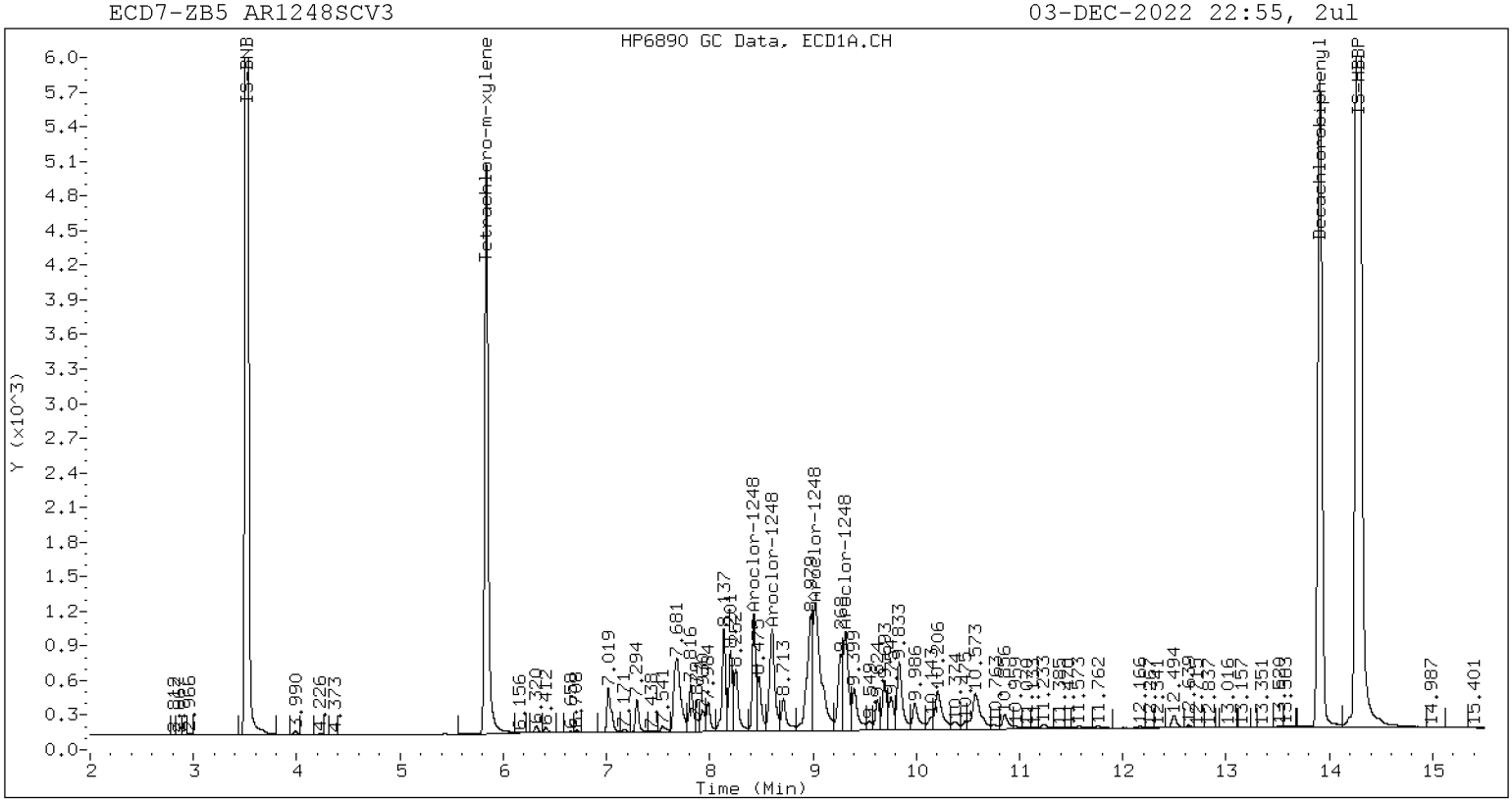
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

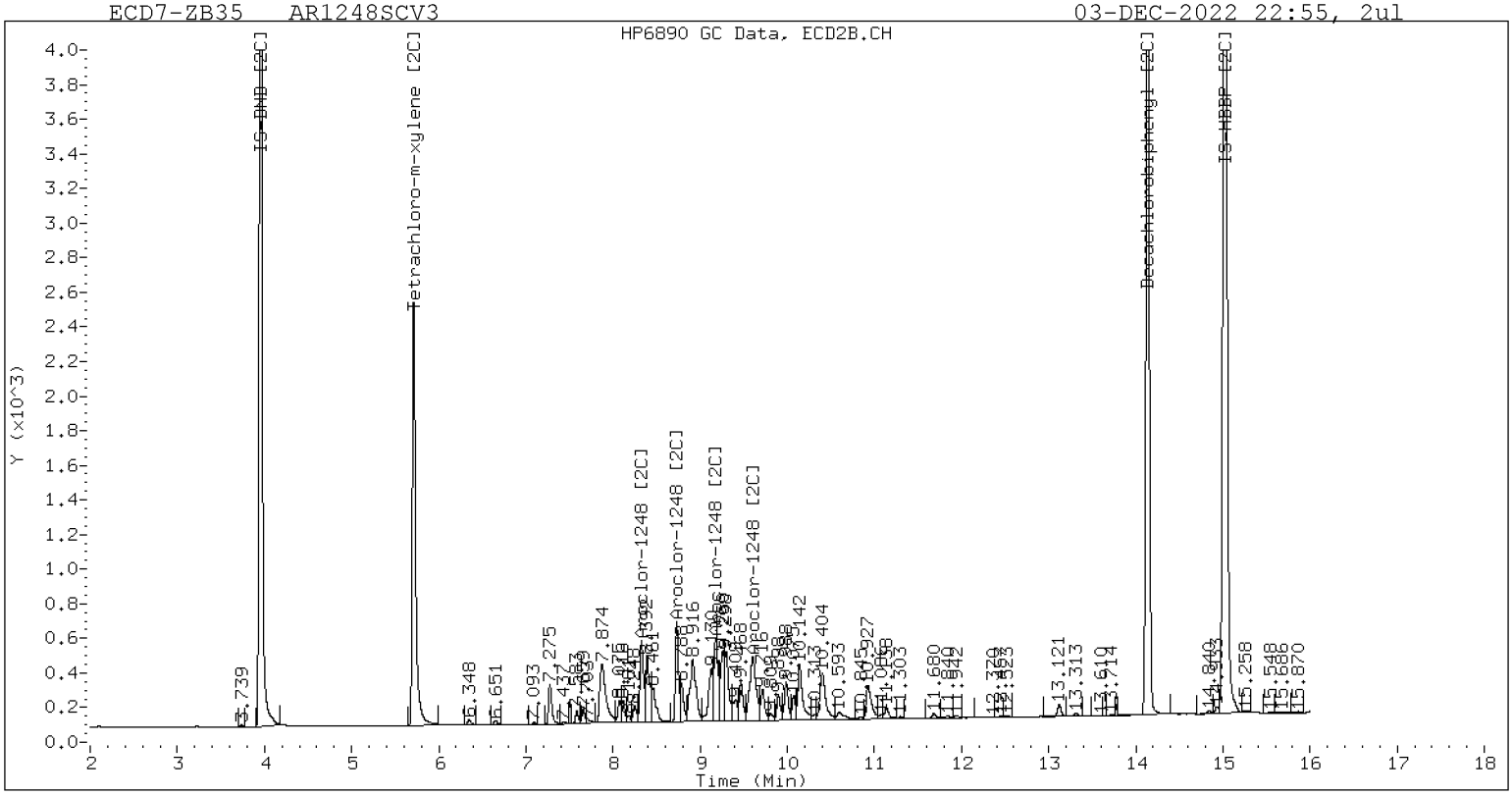
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032225ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV4	Injection Time:	23:17
Sequence Name:	AR1254SCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	228	0.0576965	0.0519120		-8.8	+/-20
Aroclor 1254 [2C]	A	250.00	231	0.0638047	0.0582302		-7.7	+/-20
Decachlorobiphenyl	A	40.000	39.5	0.7333327	0.7250146		-1.1	+/-20
Tetrachlorometaxylene	A	40.000	35.5	1.1336710	1.0063630		-11.2	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0811430		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.0	1.0966080	0.9868455		-10.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2

Total Col1Ave (5 peaks): 227.9 Total Col2Ave (5 peaks): 230.7 RPD = 1

Corrected Ave (4 peaks): 222.9 Corrected Ave (4 peaks): 223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

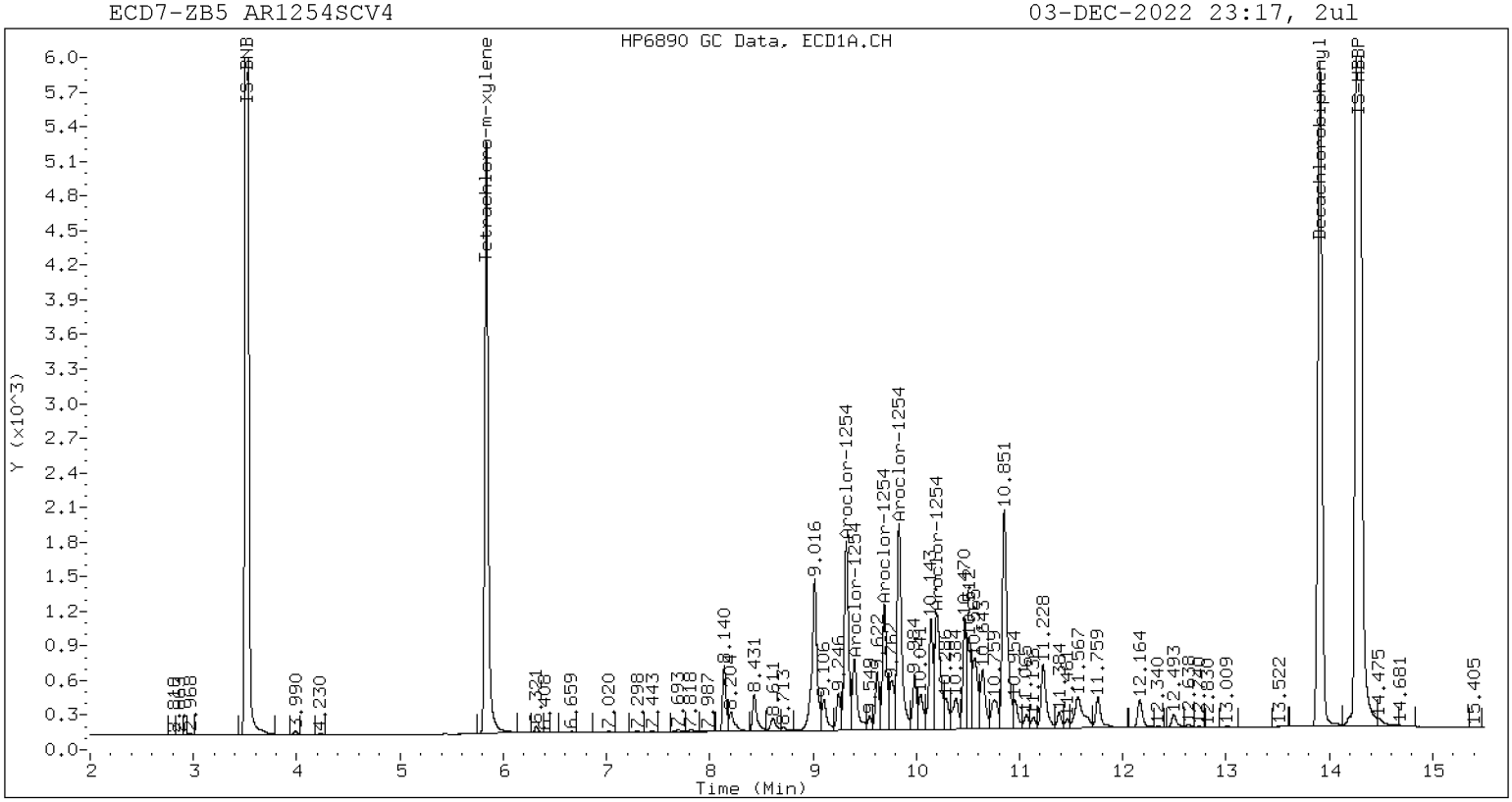
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

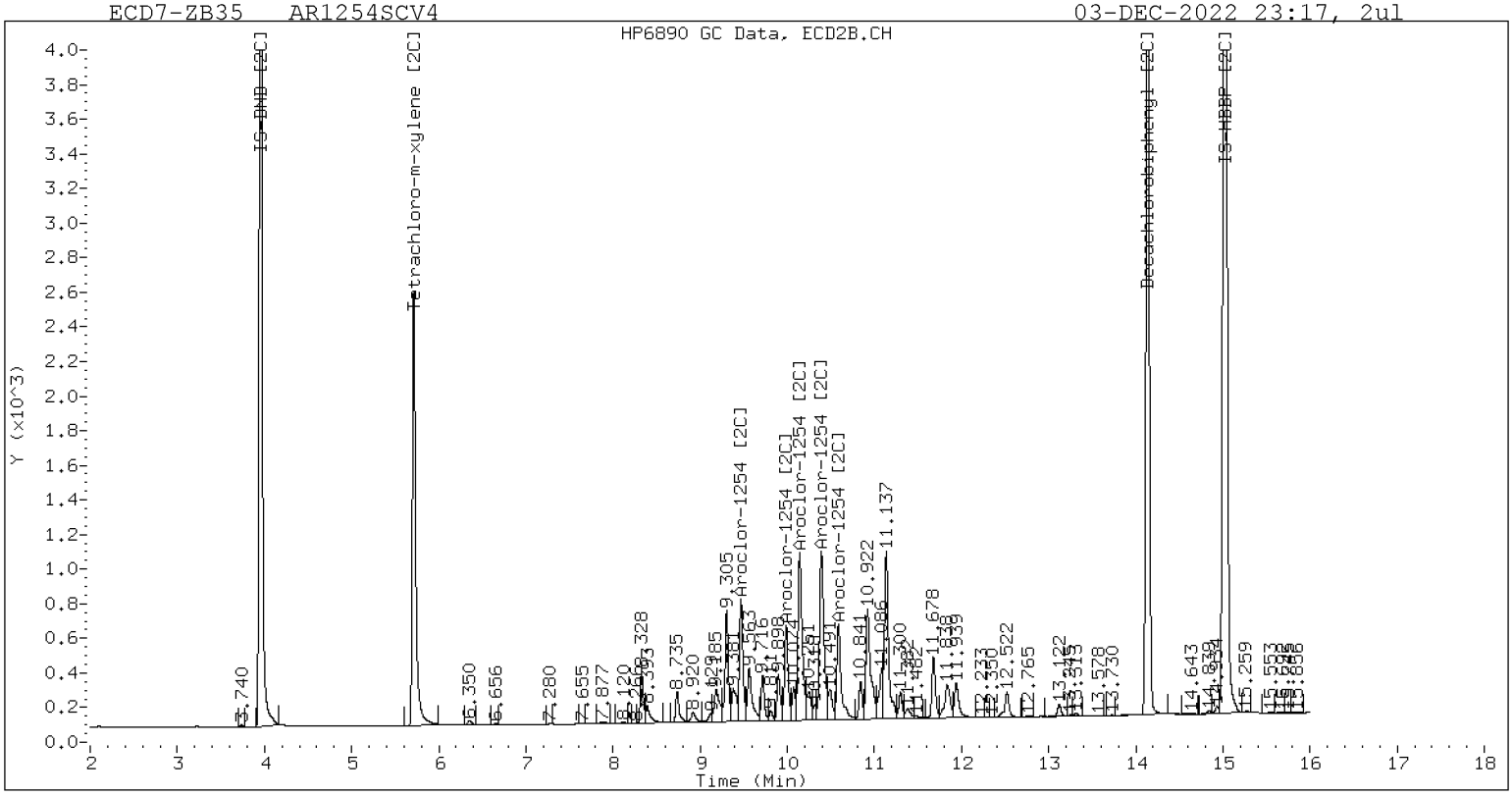
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032226ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV5	Injection Time:	23:38
Sequence Name:	AR2162SCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1221	A	250.00	237	0.0150468	0.0142259		-5.3	+/-20
Aroclor 1221 [2C]	A	250.00	236	0.0137578	0.0128521		-5.7	+/-20
Aroclor 1262	A	500.00	469	0.0371038	0.0347825		-6.2	+/-20
Aroclor 1262 [2C]	A	500.00	464	0.0656640	0.0610321		-7.1	+/-20
Decachlorobiphenyl	A	40.000	40.0	0.7333327	0.7330667		-0.04	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0221760		-9.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.4	1.1358180	1.0912900		-3.9	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.7	1.0966080	0.9776713		-10.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
	Total Col1Ave (3 peaks):				236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
	Total Col1Ave (4 peaks):				469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
	Corrected Ave (3 peaks):				466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

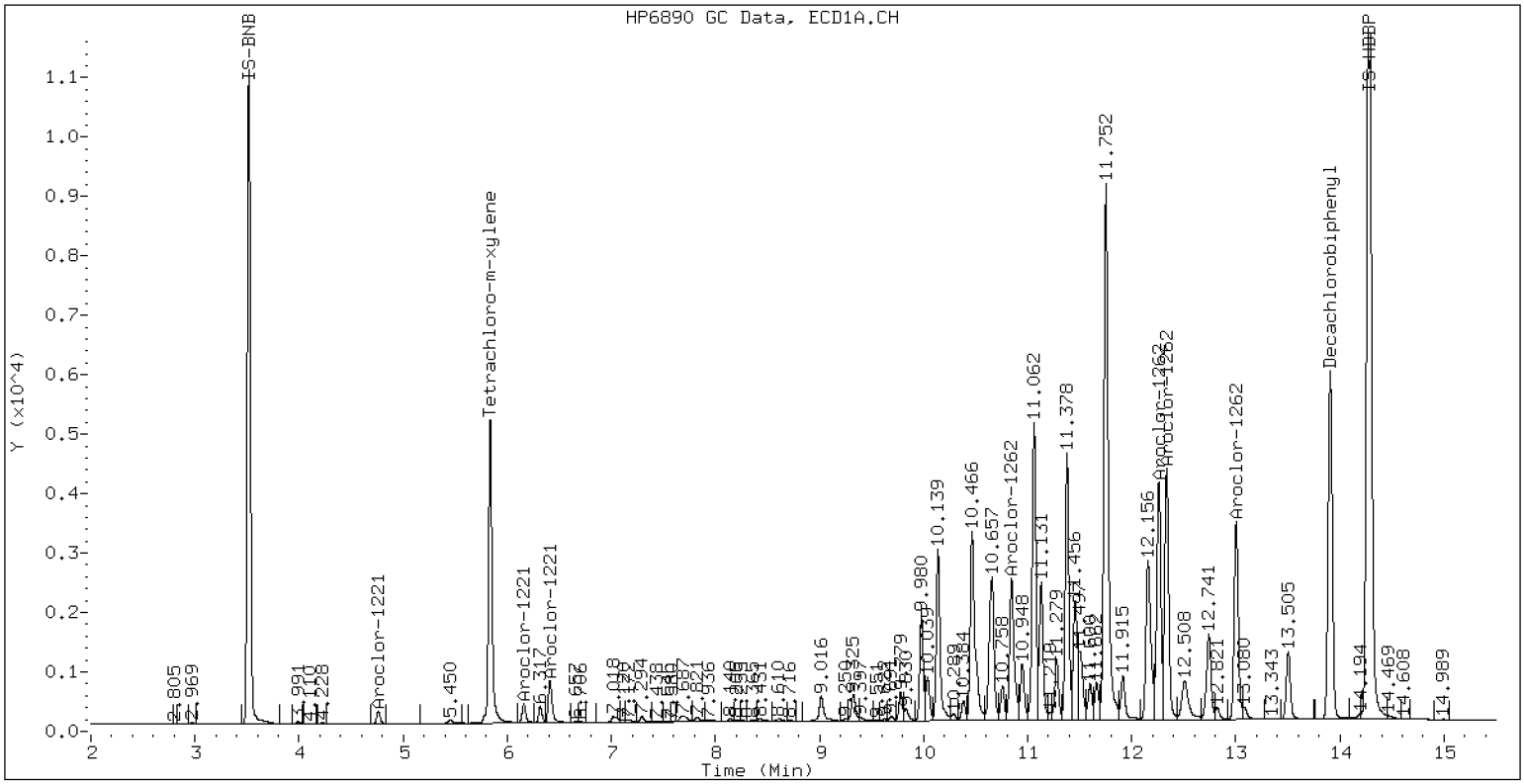
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

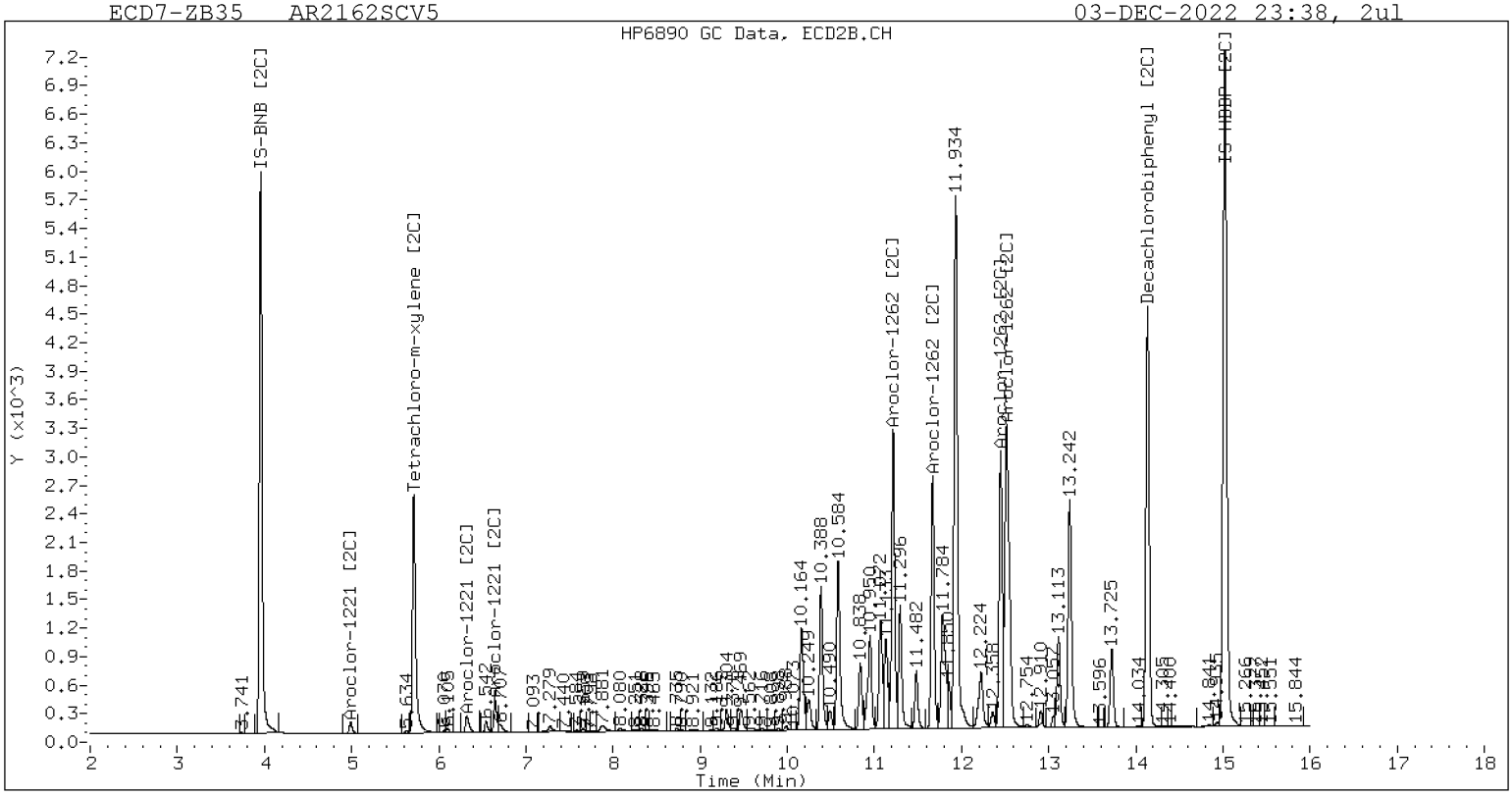
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032227ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV6	Injection Time:	23:59
Sequence Name:	AR3268SCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1232	A	250.00	217	0.0165403	0.0146227		-13.4	+/-20
Aroclor 1232 [2C]	A	250.00	230	0.0182815	0.0167216		-7.9	+/-20
Aroclor 1268	A	250.00	231	0.1462909	0.1351224		-7.5	+/-20
Aroclor 1268 [2C]	A	250.00	228	0.1941199	0.1796657		-8.9	+/-20
Decachlorobiphenyl	A	40.000	56.2	0.7333327	1.0299650		40.4	+/-20
Tetrachlorometaxylene	A	40.000	34.5	1.1336710	0.9771642		-13.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	54.9	1.1358180	1.5591590		37.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	34.2	1.0966080	0.9385176		-14.4	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7	
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3	
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7	
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1	
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2	RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6	RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2	
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9	
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9	
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7	
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7	RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7	RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

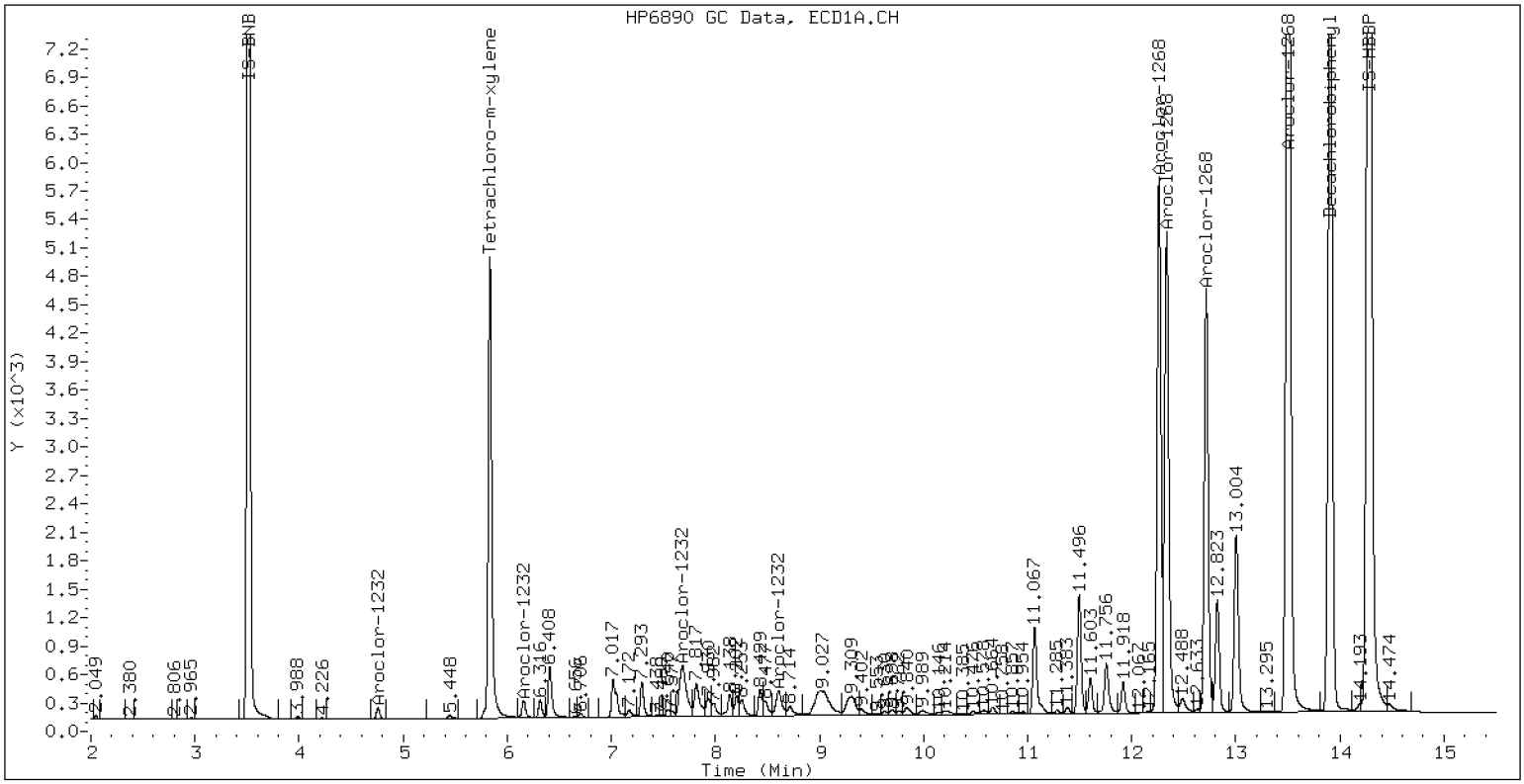
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

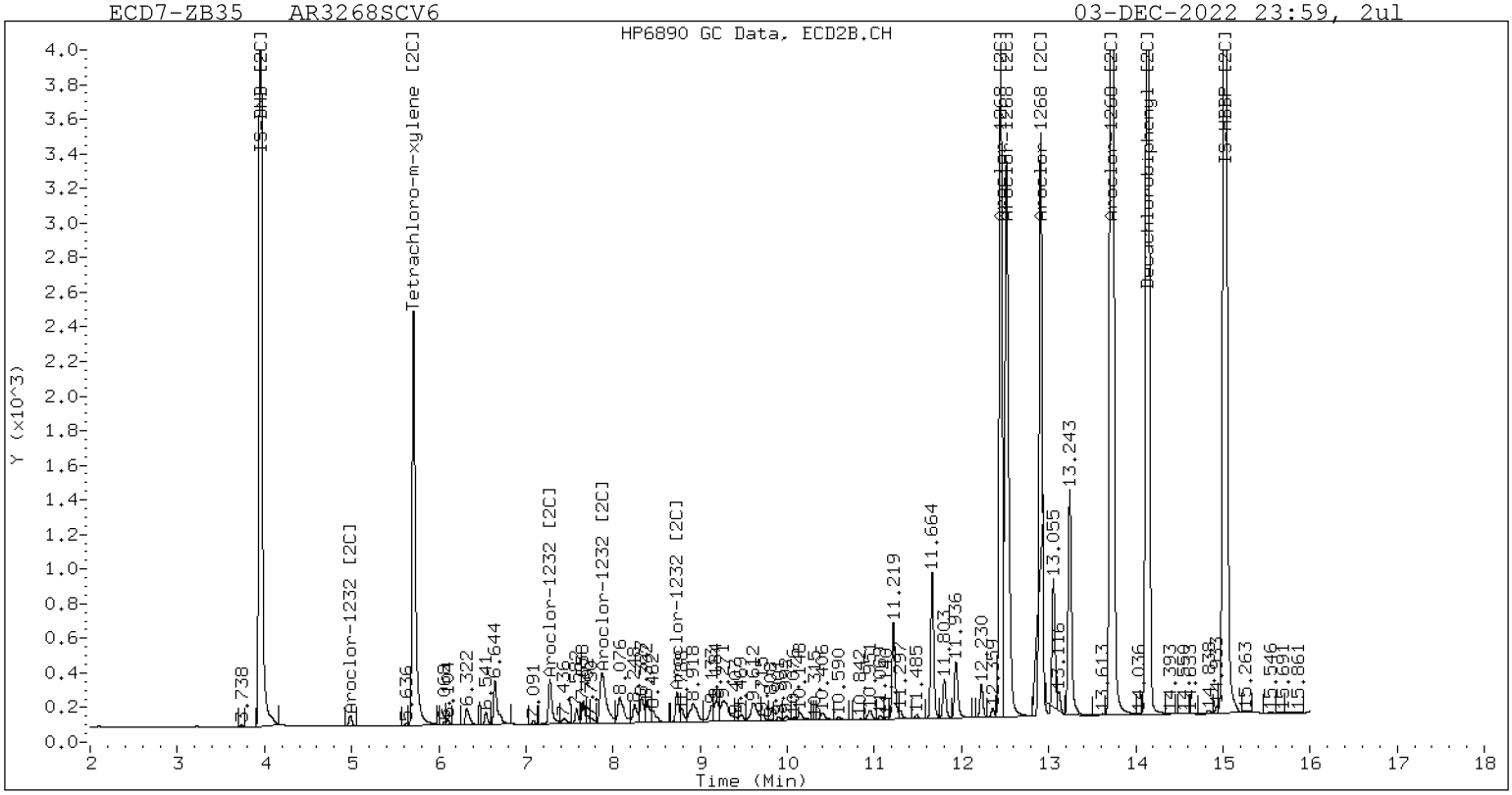
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112317ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/11/23
Lab Sample ID:	SLA0136-CCV1	Injection Time:	14:33
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	257	0.0490062	0.0517989		2.9	+/-20
Aroclor-1248 (1)	A	250.00	263		0.0362450			
Aroclor-1248 (2)	A	250.00	279		0.0489669			
Aroclor-1248 (3)	A	250.00	289		0.0913629			
Aroclor-1248 (4)	A	250.00	198		0.0306208			
Aroclor 1248 [2C]	A	250.00	257	0.0394876	0.0408733		2.7	+/-20
Aroclor-1248 (1) [2C]	A	250.00	260		0.0339747			
Aroclor-1248 (2) [2C]	A	250.00	219		0.0301110			
Aroclor-1248 (3) [2C]	A	250.00	279		0.0466475			
Aroclor-1248 (4) [2C]	A	250.00	269		0.0527601			
Decachlorobiphenyl	A	40.000	42.0	0.7333327	0.7706385		5.0	+/-20
Tetrachlorometaxylene	A	40.000	36.5	1.1336710	1.0354590		-8.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.7	1.1358180	1.1557380		1.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.2	1.0966080	0.9923164		-9.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112317ECD7.D
Data file 2: /230111.b/230111.b/01112317ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 11-JAN-2023 14:33
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	195302	5.707	0.000	148262	36.5	36.2	0.9	Tetrachloro-m-xylene
13.903	-0.001	233925	14.128	-0.001	251566	42.0	40.7	3.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	377228	-15.7
Hexabromobiphenyl	798898	607094	-24.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	298820	20.0
Hexabromobiphenyl	362541	435334	20.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.424	-0.003	42727	263.4	1	8.321	0.000	31726	259.9
Aroclor-1248	2	8.600	-0.005	57724	278.7	2	8.727	0.000	28118	219.0
Aroclor-1248	3	9.016	-0.007	107702	289.1	3	9.175	0.000	43560	278.9
Aroclor-1248	4	9.309	-0.002	36097	197.8	4	9.599	0.000	49268	268.7
Total Col1Ave (4 peaks):					257.3	Total Col2Ave (4 peaks):				256.6 RPD = 0
Corrected Ave (3 peaks):					246.7	Corrected Ave (3 peaks):				249.2 RPD = 1
CalAmt %D:					2.9	CalAmt %D:				2.7

Total PCB Area Col1 (5.932 - 13.804) = 886272 Col1 Total PCB = 0.2 ppm*

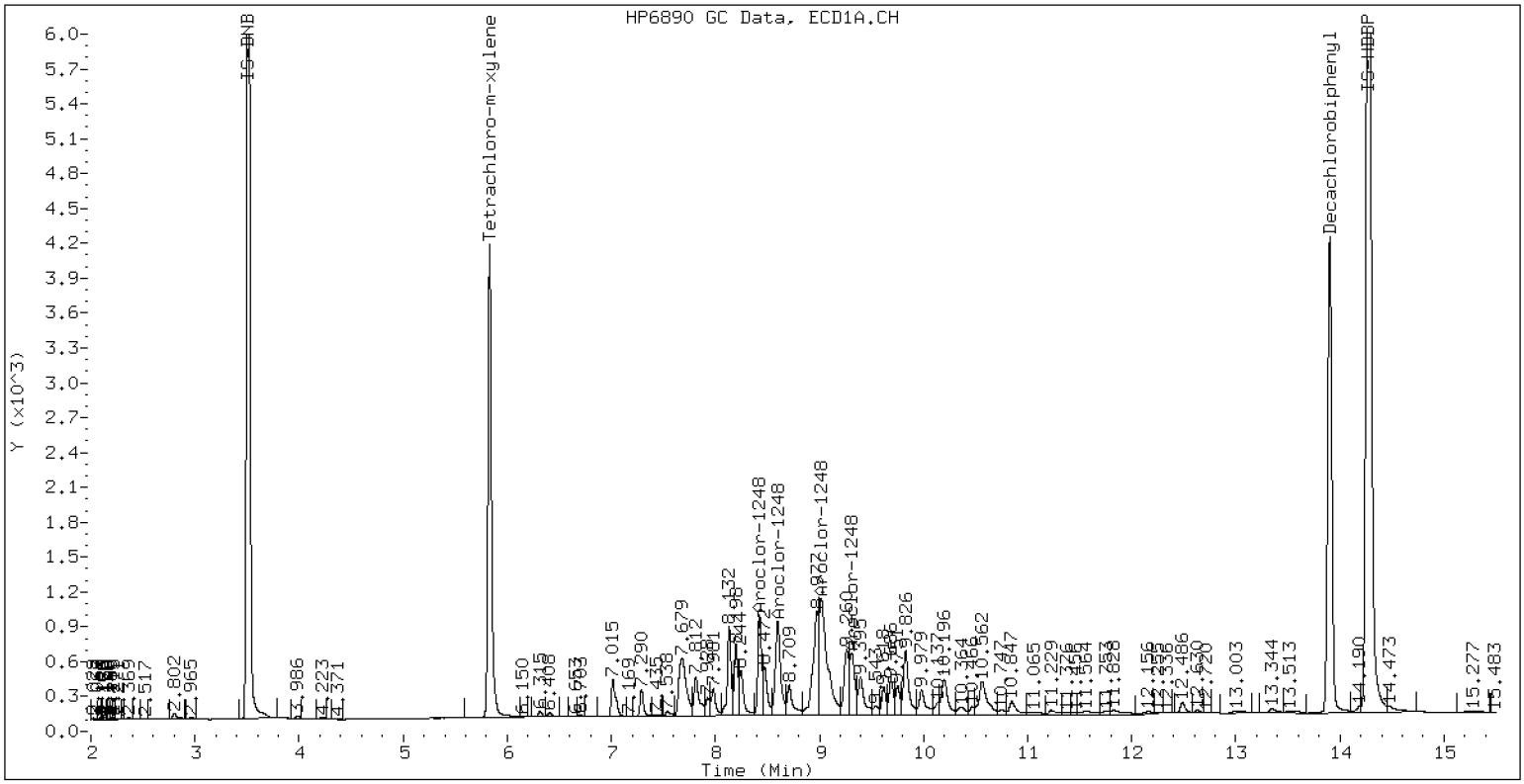
Total PCB Area Col2 (5.807 - 14.028) = 633909 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

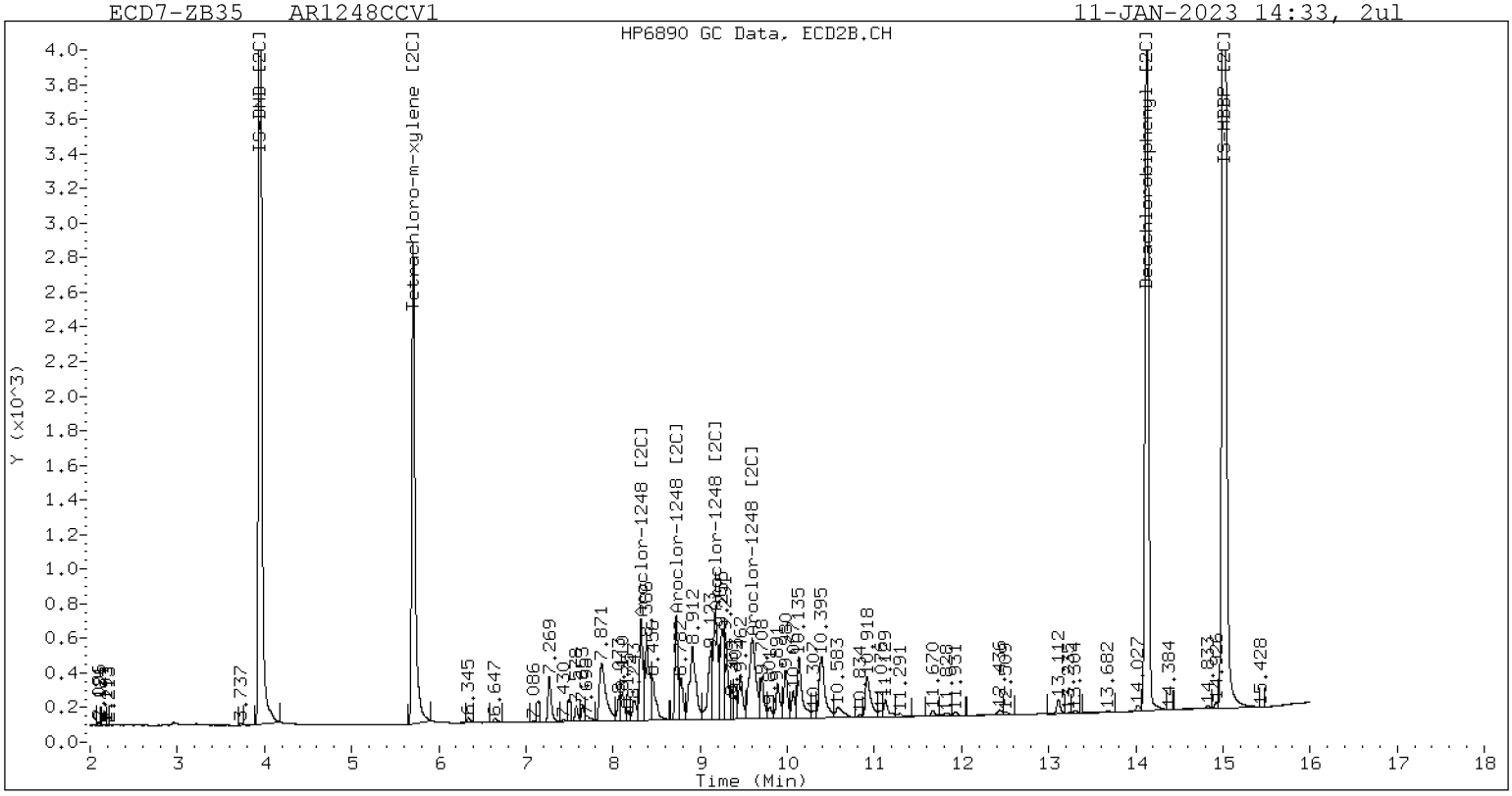
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 11-JAN-2023 14:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 11-JAN-2023 14:33, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112318ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/11/23
Lab Sample ID:	SLA0136-CCV2	Injection Time:	14:54
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	278	0.0441939	0.0485943		11.3	+/-20	
Aroclor-1016 (1)	A	250.00	272	0.0266860	0.0290229		8.8		
Aroclor-1016 (2)	A	250.00	266	0.0861572	0.0918442		6.4		
Aroclor-1016 (3)	A	250.00	288	0.0390425	0.0449547		15.2		
Aroclor-1016 (4)	A	250.00	287	0.0248899	0.0285556		14.8		
Aroclor 1016 [2C]	A	250.00	252	0.0467310	0.0465069		0.6	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	251	0.0409030	0.0410600		0.4		
Aroclor-1016 (2) [2C]	A	250.00	245	0.0882154	0.0863852		-2.0		
Aroclor-1016 (3) [2C]	A	250.00	249	0.0378846	0.0377953		-0.4		
Aroclor-1016 (4) [2C]	A	250.00	261	0.0199212	0.0207872		4.4		
Aroclor 1260	A	250.00	303	0.0390342	0.0472752		21.3	+/-20	*
Aroclor-1260 (1)	A	250.00	301	0.0291201	0.0350870		20.4		
Aroclor-1260 (2)	A	250.00	306	0.0301181	0.0368999		22.4		
Aroclor-1260 (3)	A	250.00	305	0.0791351	0.0964340		22.0		
Aroclor-1260 (4)	A	250.00	296	0.0403003	0.0476576		18.4		
Aroclor-1260 (5)	A	250.00	308	0.0164974	0.0202975		23.2		
Aroclor 1260 [2C]	A	250.00	254	0.0617619	0.0623147		1.6	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	253	0.0422283	0.0428107		1.2		
Aroclor-1260 (2) [2C]	A	250.00	247	0.1059643	0.1049019		-1.2		
Aroclor-1260 (3) [2C]	A	250.00	260	0.0282173	0.0293175		4.0		
Aroclor-1260 (4) [2C]	A	250.00	256	0.0706376	0.0722287		2.4		
Decachlorobiphenyl	A	40.000	43.7	0.7333327	0.8010452		9.3	+/-20	
Tetrachlorometaxylene	A	40.000	41.2	1.1336710	1.1683590		3.0	+/-20	
Decachlorobiphenyl [2C]	A	40.000	41.9	1.1358180	1.1903590		4.8	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	39.8	1.0966080	1.0906350		-0.5	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112318ECD7.D
Data file 2: /230111.b/230111.b/01112318ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 11-JAN-2023 14:54
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.001	216039	5.707	0.000	160783	41.2	39.8	3.6	Tetrachloro-m-xylene
13.902	-0.002	269923	14.128	-0.000	274764	43.7	41.9	4.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	369816	-17.4
Hexabromobiphenyl	798898	673927	-15.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	294843	18.4
Hexabromobiphenyl	362541	461649	27.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.005	33541	271.9	1	7.271	0.000	37832	251.0
Aroclor-1016	2	7.678	-0.006	106142	266.5	2	7.871	-0.000	79594	244.8
Aroclor-1016	3	7.813	-0.005	51953	287.9	3	8.070	-0.001	34824	249.4
Aroclor-1016	4	8.424	-0.005	33001	286.8	4	8.241	-0.001	19153	260.9
	Total Col1Ave (4 peaks):				278.3	Total Col2Ave (4 peaks):				251.5 RPD = 10
	Corrected Ave (3 peaks):				275.1	Corrected Ave (3 peaks):				248.4 RPD = 10
	CalAmt %D:				11.3	CalAmt %D:				0.6
Aroclor-1260	1	11.057	-0.006	73894	301.2	1	11.662	-0.000	61761	253.4
Aroclor-1260	2	11.372	-0.005	77712	306.3	2	11.926	0.000	151337	247.5
Aroclor-1260	3	11.747	-0.005	203092	304.6	3	12.445	0.001	42295	259.7
Aroclor-1260	4	12.152	-0.006	100368	295.6	4	12.509	-0.001	104201	255.6
Aroclor-1260	5	12.256	-0.006	42747	307.6	NS	---			----
	Total Col1Ave (5 peaks):				303.1	Total Col2Ave (4 peaks):				254.1 RPD = 18
	Corrected Ave (4 peaks):				302.0	Corrected Ave (3 peaks):				252.2 RPD = 18
	CalAmt %D:				21.2	CalAmt %D:				1.6

Total PCB Area Col1 (5.932 - 13.804) = 2125879 Col1 Total PCB = 0.6 ppm*

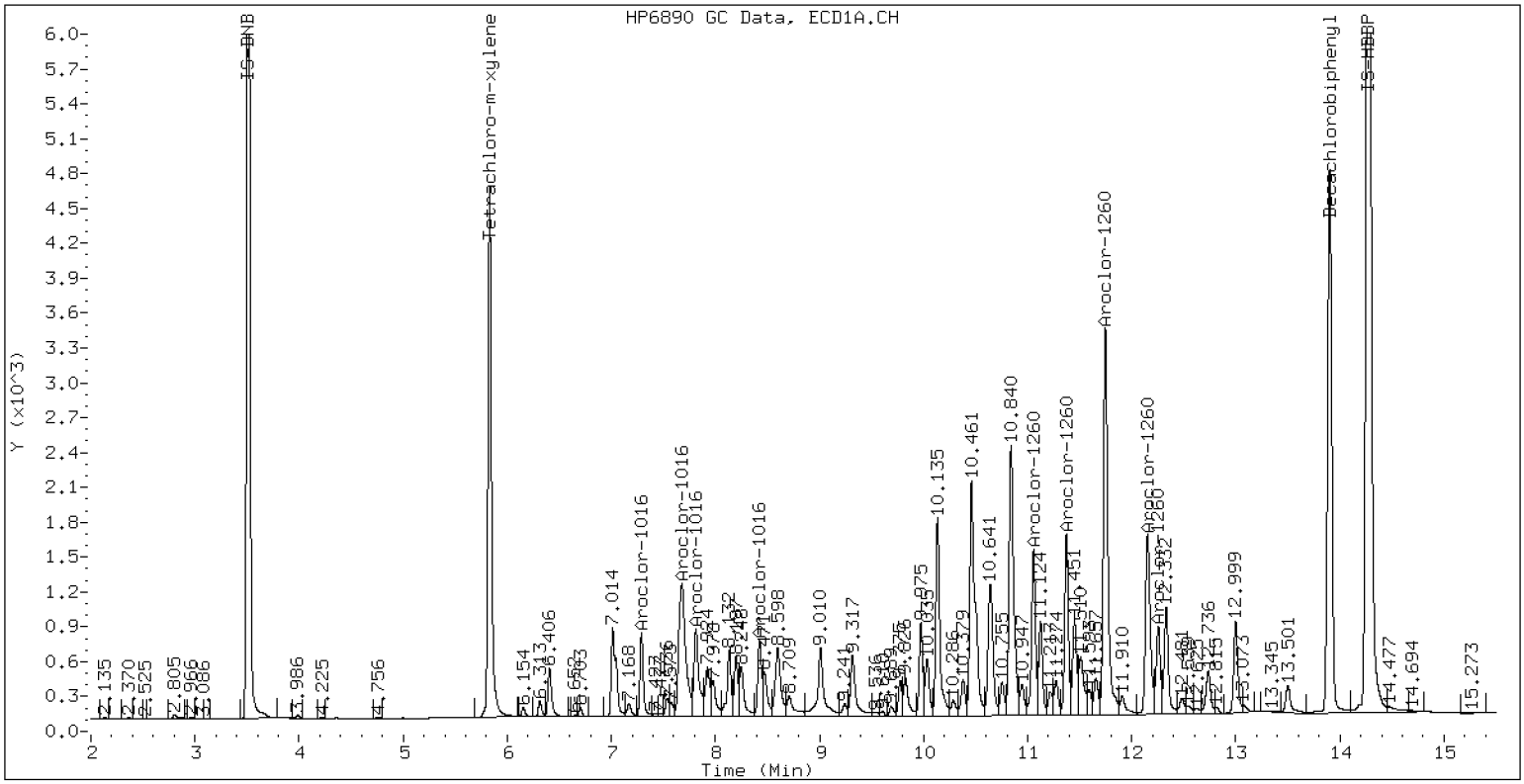
Total PCB Area Col2 (5.807 - 14.028) = 1478089 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

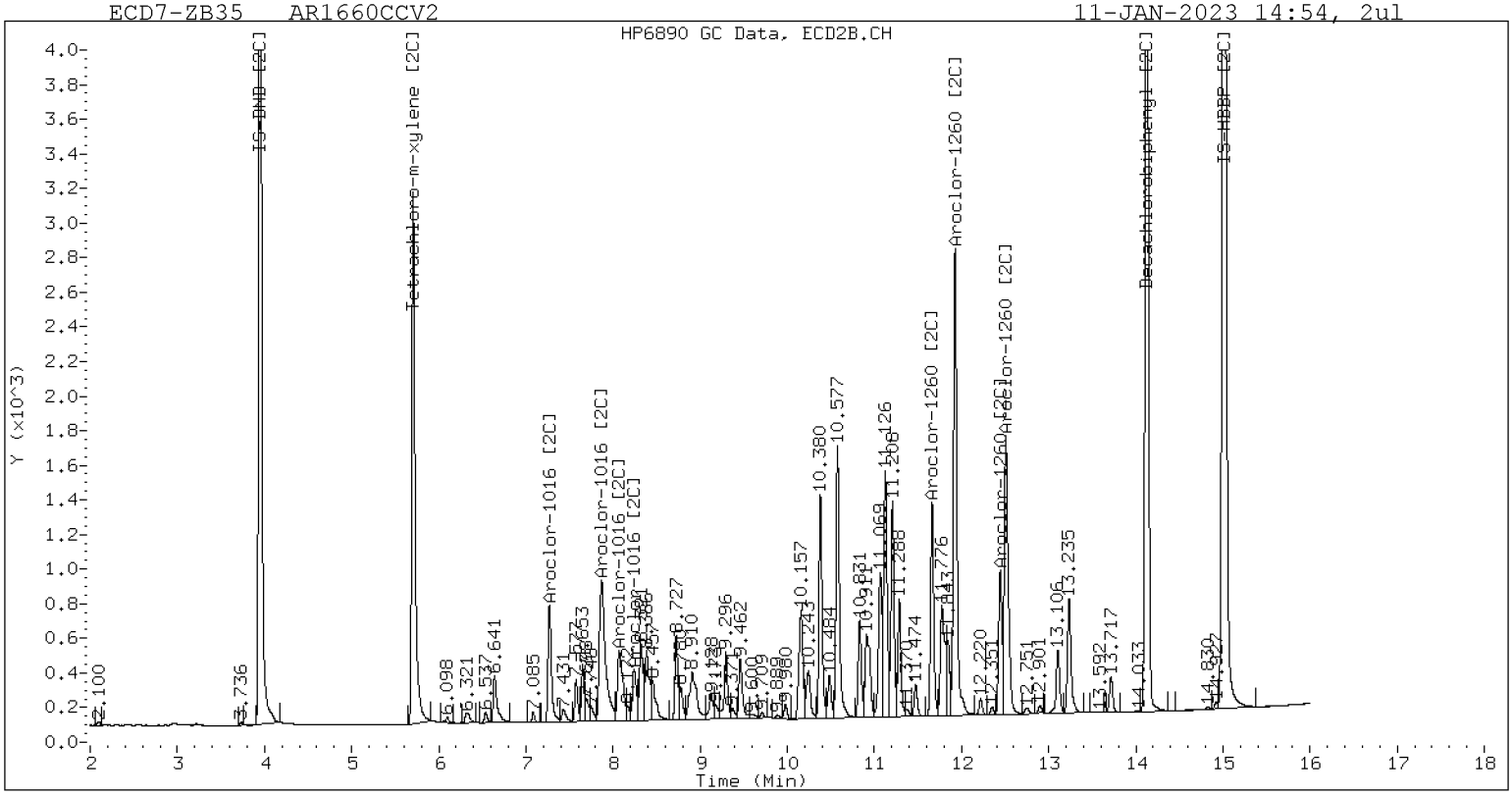
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 11-JAN-2023 14:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 11-JAN-2023 14:54, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112328ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/11/23
Lab Sample ID:	SLA0136-CCV3	Injection Time:	18:24
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	282	0.0396000	0.0444015		12.6	+/-20
Aroclor-1242 (1)	A	250.00	267		0.0242407			
Aroclor-1242 (2)	A	250.00	260		0.0748016			
Aroclor-1242 (3)	A	250.00	275		0.0228138			
Aroclor-1242 (4)	A	250.00	324		0.0557500			
Aroclor 1242 [2C]	A	250.00	269	0.0391981	0.0414700		7.5	+/-20
Aroclor-1242 (1) [2C]	A	250.00	253		0.0342393			
Aroclor-1242 (2) [2C]	A	250.00	257		0.0739476			
Aroclor-1242 (3) [2C]	A	250.00	280		0.0259347			
Aroclor-1242 (4) [2C]	A	250.00	285		0.0317583			
Decachlorobiphenyl	A	40.000	40.9	0.7333327	0.7497097		2.3	+/-20
Tetrachlorometaxylene	A	40.000	38.6	1.1336710	1.0950880		-3.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.0	1.1358180	1.1368990		0.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.1	1.0966080	1.0183290		-7.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112328ECD7.D
Data file 2: /230111.b/230111.b/01112328ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 11-JAN-2023 18:24
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	212925	5.708	0.001	156231	38.6	37.1	3.9	Tetrachloro-m-xylene
13.904	0.000	360267	14.128	-0.000	332514	40.9	40.0	2.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	388873	-13.1
Hexabromobiphenyl	798898	961084	20.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	306838	23.2
Hexabromobiphenyl	362541	584949	61.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.290	0.000	29458	267.3	1	7.272	0.000	32831	252.8
Aroclor-1242	2	7.682	0.000	90901	259.7	2	7.875	0.000	70906	257.2
Aroclor-1242	3	8.425	0.000	27724	275.3	3	9.179	0.000	24868	279.6
Aroclor-1242	4	9.018	0.000	67749	324.0	4	9.604	0.000	30452	284.9
Total Col1Ave (4 peaks):					281.6	Total Col2Ave (4 peaks):				268.6 RPD = 5
Corrected Ave (3 peaks):					267.4	Corrected Ave (3 peaks):				263.2 RPD = 2
CalAmt %D:					12.6	CalAmt %D:				7.5

Total PCB Area Col1 (5.932 - 13.804) = 765422 Col1 Total PCB = 0.2 ppm*

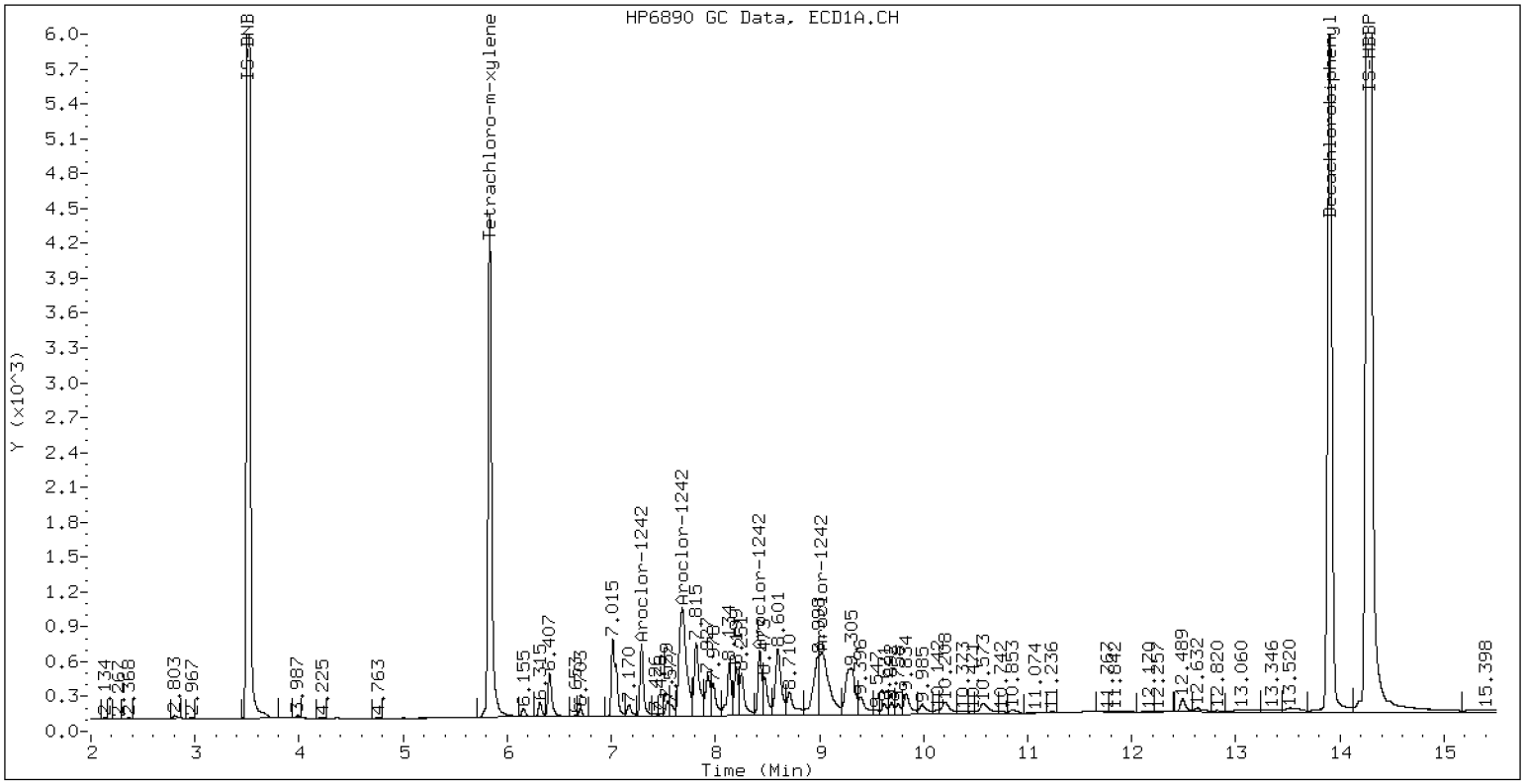
Total PCB Area Col2 (5.807 - 14.028) = 532955 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

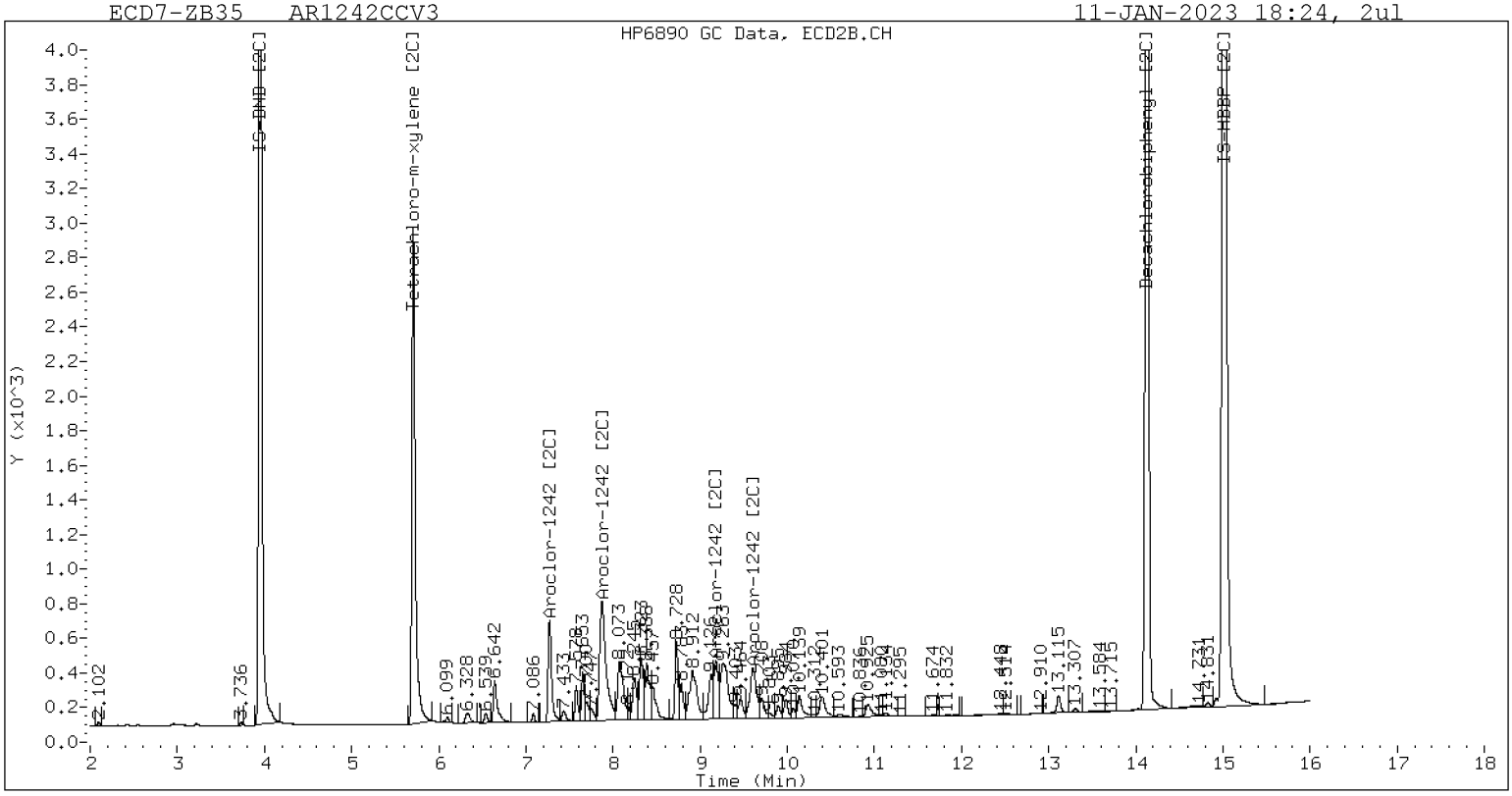
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 11-JAN-2023 18:24, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV3 11-JAN-2023 18:24, 2ul

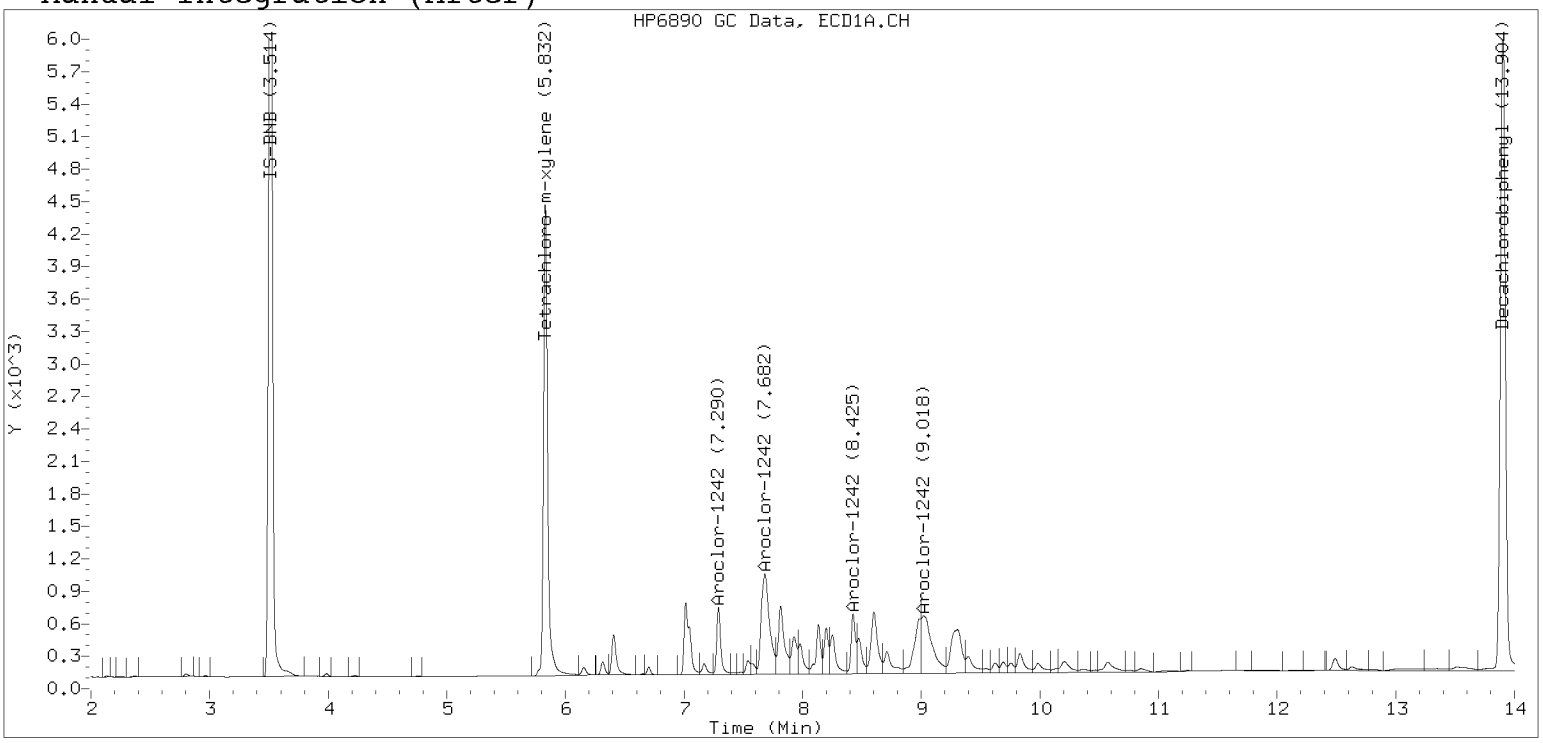


ZB-35 Manual Integration: NO

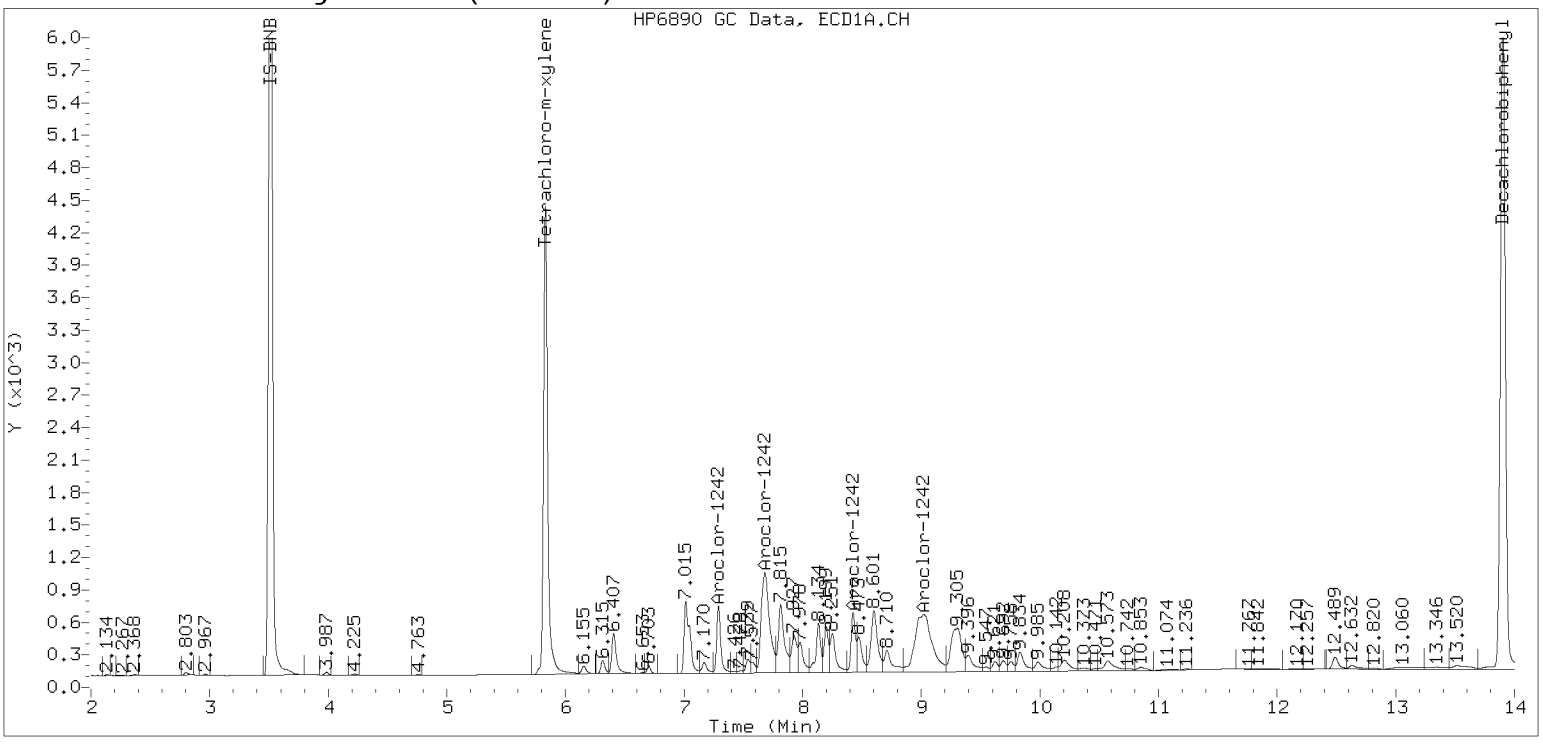
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230111.b/01112328ECD7.D Injection Date: 11-JAN-2023 18:24

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112329ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/11/23
Lab Sample ID:	SLA0136-CCV4	Injection Time:	18:46
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	280	0.0441939	0.0489795		12.1	+/-20
Aroclor-1016 (1)	A	250.00	276	0.0266860	0.0294644		10.4	
Aroclor-1016 (2)	A	250.00	268	0.0861572	0.0925598		7.2	
Aroclor-1016 (3)	A	250.00	291	0.0390425	0.0453831		16.4	
Aroclor-1016 (4)	A	250.00	286	0.0248899	0.0285110		14.4	
Aroclor 1016 [2C]	A	250.00	251	0.0467310	0.0464613		0.3	+/-20
Aroclor-1016 (1) [2C]	A	250.00	250	0.0409030	0.0409522		0.0	
Aroclor-1016 (2) [2C]	A	250.00	244	0.0882154	0.0862967		-2.4	
Aroclor-1016 (3) [2C]	A	250.00	251	0.0378846	0.0380569		0.4	
Aroclor-1016 (4) [2C]	A	250.00	258	0.0199212	0.0205394		3.2	
Aroclor 1260	A	250.00	252	0.0390342	0.0393405		0.9	+/-20
Aroclor-1260 (1)	A	250.00	249	0.0291201	0.0289804		-0.4	
Aroclor-1260 (2)	A	250.00	255	0.0301181	0.0307673		2.0	
Aroclor-1260 (3)	A	250.00	254	0.0791351	0.0804159		1.6	
Aroclor-1260 (4)	A	250.00	245	0.0403003	0.0395371		-2.0	
Aroclor-1260 (5)	A	250.00	258	0.0164974	0.0170017		3.2	
Aroclor 1260 [2C]	A	250.00	230	0.0617619	0.0563763		-7.9	+/-20
Aroclor-1260 (1) [2C]	A	250.00	226	0.0422283	0.0382361		-9.6	
Aroclor-1260 (2) [2C]	A	250.00	222	0.1059643	0.0941411		-11.2	
Aroclor-1260 (3) [2C]	A	250.00	238	0.0282173	0.0268235		-4.8	
Aroclor-1260 (4) [2C]	A	250.00	235	0.0706376	0.0663044		-6.0	
Decachlorobiphenyl	A	40.000	43.3	0.7333327	0.7946871		8.3	+/-20
Tetrachlorometaxylene	A	40.000	42.0	1.1336710	1.1892280		5.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.9	1.1358180	1.1616880		2.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.4	1.0966080	1.1089400		1.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112329ECD7.D
Data file 2: /230111.b/230111.b/01112329ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 11-JAN-2023 18:46
Report Date: 01/12/2023 12:16
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.001	226916	5.707	0.000	166871	42.0	40.4	3.7	Tetrachloro-m-xylene
13.902	-0.002	361047	14.128	0.000	325646	43.3	40.9	5.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	381619	-14.7
Hexabromobiphenyl	798898	908652	13.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	300956	20.8
Hexabromobiphenyl	362541	560643	54.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.005	35138	276.0	1	7.270	0.000	38515	250.3
Aroclor-1016	2	7.679	-0.006	110383	268.6	2	7.871	0.000	81161	244.6
Aroclor-1016	3	7.812	-0.006	54122	290.6	3	8.071	0.000	35792	251.1
Aroclor-1016	4	8.423	-0.007	34001	286.4	4	8.242	0.000	19317	257.8
Total Col1Ave (4 peaks):					280.4	Total Col2Ave (4 peaks):				250.9 RPD = 11
Corrected Ave (3 peaks):					277.0	Corrected Ave (3 peaks):				248.7 RPD = 11
CalAmt %D:					12.2	CalAmt %D:				0.4
Aroclor-1260	1	11.057	-0.005	82291	248.8	1	11.663	0.000	66990	226.4
Aroclor-1260	2	11.374	-0.004	87365	255.4	2	11.926	0.000	164936	222.1
Aroclor-1260	3	11.747	-0.005	228344	254.0	3	12.444	0.000	46995	237.7
Aroclor-1260	4	12.153	-0.005	112267	245.3	4	12.510	0.000	116166	234.7
Aroclor-1260	5	12.256	-0.005	48277	257.6	NS	---			----
Total Col1Ave (5 peaks):					252.2	Total Col2Ave (4 peaks):				230.2 RPD = 9
Corrected Ave (4 peaks):					250.9	Corrected Ave (3 peaks):				227.7 RPD = 10
CalAmt %D:					0.9	CalAmt %D:				-7.9

Total PCB Area Col1 (5.932 - 13.804) = 2321218 Col1 Total PCB = 0.6 ppm*

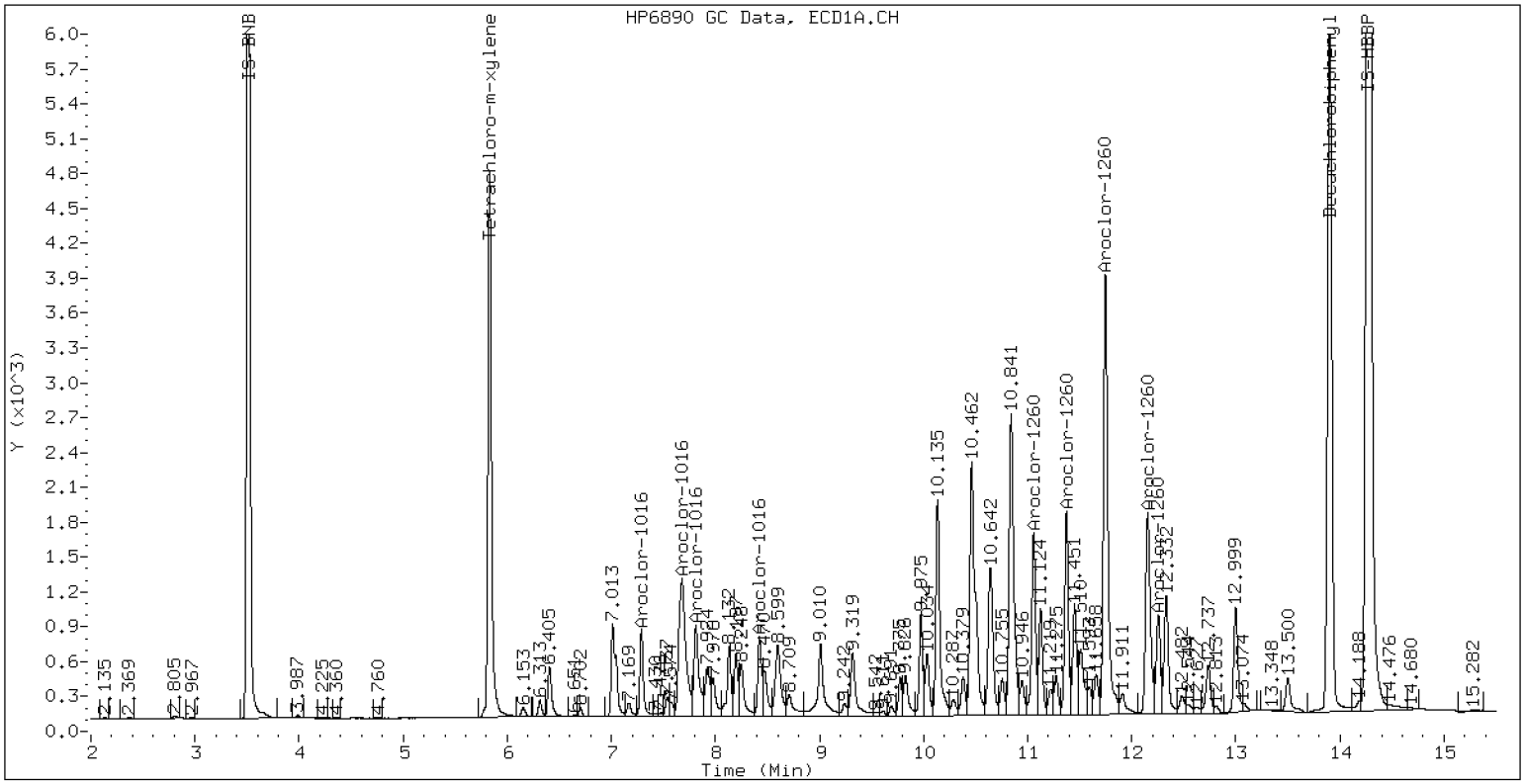
Total PCB Area Col2 (5.807 - 14.028) = 1590371 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

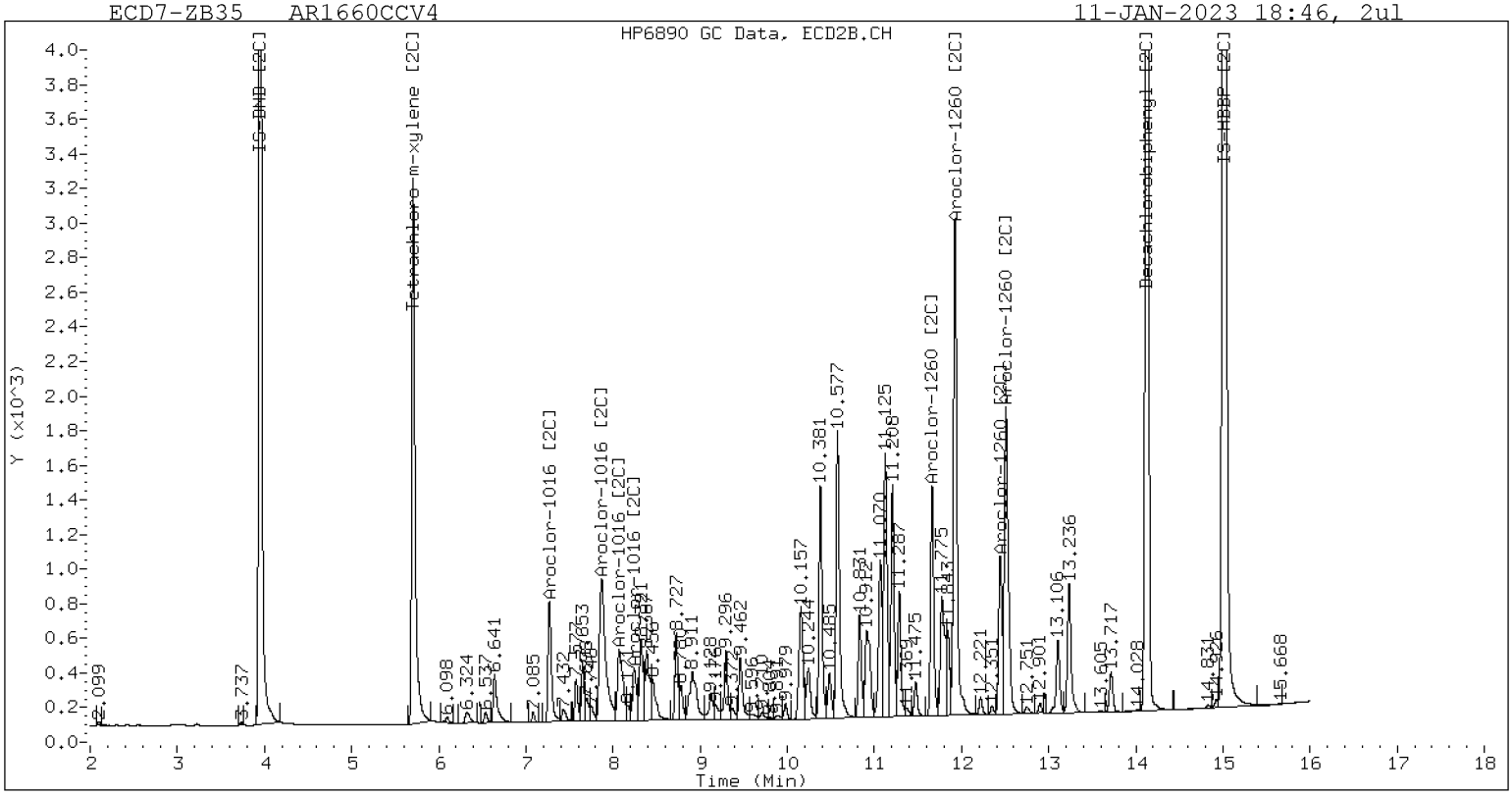
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 11-JAN-2023 18:46, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 11-JAN-2023 18:46, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112346ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/12/23
Lab Sample ID:	SLA0136-CCV5	Injection Time:	00:43
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	264	0.0576965	0.0607882		5.5	+/-20
Aroclor-1254 (1)	A	250.00	264		0.0742619			
Aroclor-1254 (2)	A	250.00	302		0.0330591			
Aroclor-1254 (3)	A	250.00	208		0.0370514			
Aroclor-1254 (4)	A	250.00	275		0.0953882			
Aroclor-1254 (5)	A	250.00	270		0.0641801			
Aroclor 1254 [2C]	A	250.00	271	0.0638047	0.0688199		8.2	+/-20
Aroclor-1254 (1) [2C]	A	250.00	260		0.0536210			
Aroclor-1254 (2) [2C]	A	250.00	273		0.0452890			
Aroclor-1254 (3) [2C]	A	250.00	255		0.0909504			
Aroclor-1254 (4) [2C]	A	250.00	281		0.1036571			
Aroclor-1254 (5) [2C]	A	250.00	284		0.0505818			
Decachlorobiphenyl	A	40.000	41.4	0.7333327	0.7593584		3.5	+/-20
Tetrachlorometaxylene	A	40.000	37.0	1.1336710	1.0485130		-7.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.5	1.1358180	1.2068060		6.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.8	1.0966080	1.0099540		-8.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112346ECD7.D
Data file 2: /230111.b/230111.b/01112346ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 12-JAN-2023 00:43
Report Date: 01/14/2023 13:22
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	221329	5.707	-0.001	167002	37.0	36.8	0.4	Tetrachloro-m-xylene
13.902	-0.000	229682	14.126	-0.001	268448	41.4	42.5	2.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	422177	-5.7
Hexabromobiphenyl	798898	604937	-24.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	330712	32.8
Hexabromobiphenyl	362541	444890	22.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.314	-0.002	97974	263.6	1	9.460	0.000	55416	259.9
Aroclor-1254	2	9.393	-0.002	43615	301.7	2	9.979	0.000	46805	273.0
Aroclor-1254	3	9.684	-0.001	48882	208.2	3	10.132	0.000	93995	255.1
Aroclor-1254	4	9.822	-0.003	125846	275.0	4	10.380	0.000	107127	280.7
Aroclor-1254	5	10.186	-0.006	84673	269.9	5	10.577	0.000	52275	284.0

Total Col1Ave (5 peaks): 263.7 Total Col2Ave (5 peaks): 270.5 RPD = 3

Corrected Ave (4 peaks): 254.2 Corrected Ave (4 peaks): 267.2 RPD = 5

CalAmt %D: 5.5 CalAmt %D: 8.2

Total PCB Area Col1 (5.931 - 13.802) = 1257284 Col1 Total PCB = 0.3 ppm*

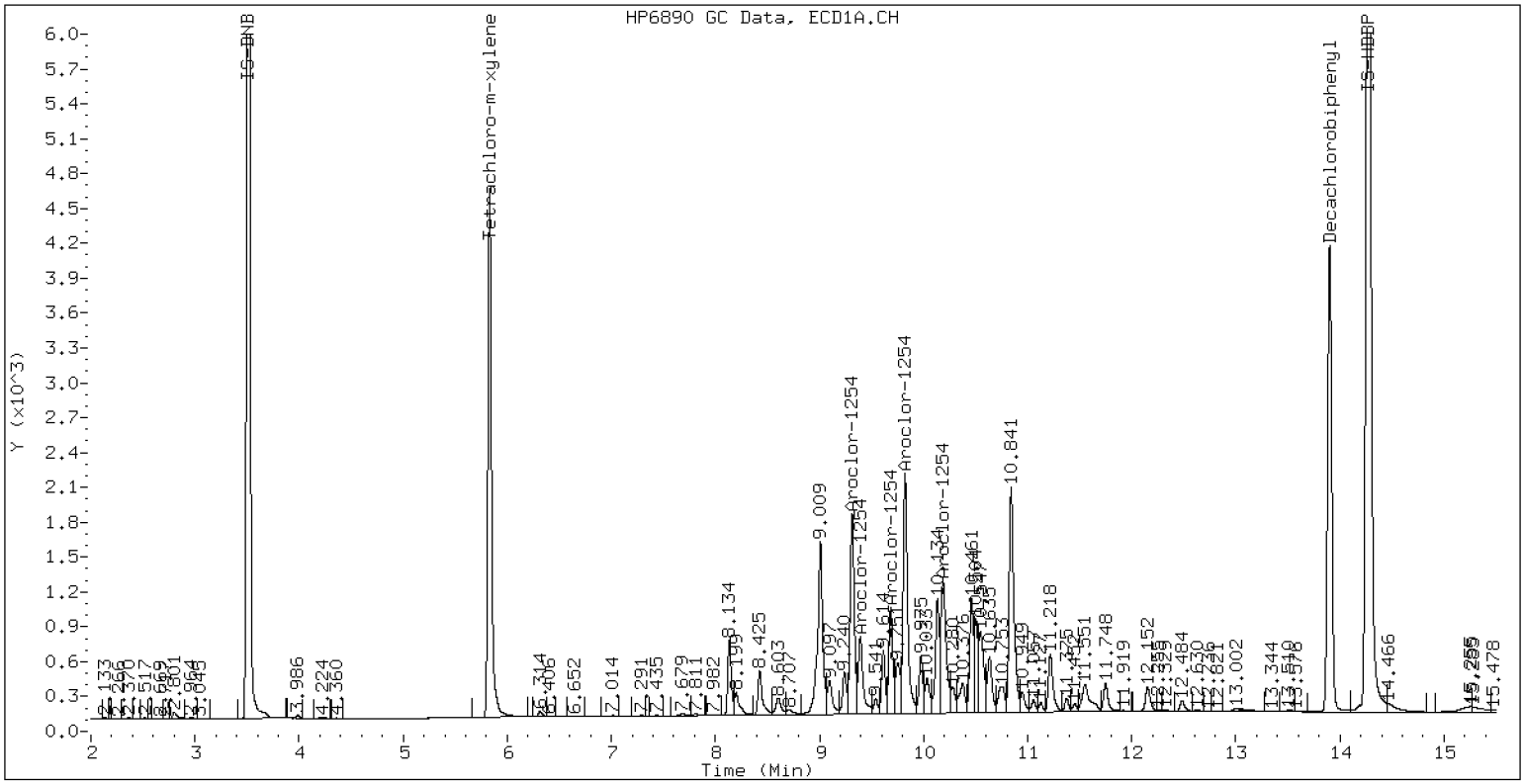
Total PCB Area Col2 (5.807 - 14.027) = 972424 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

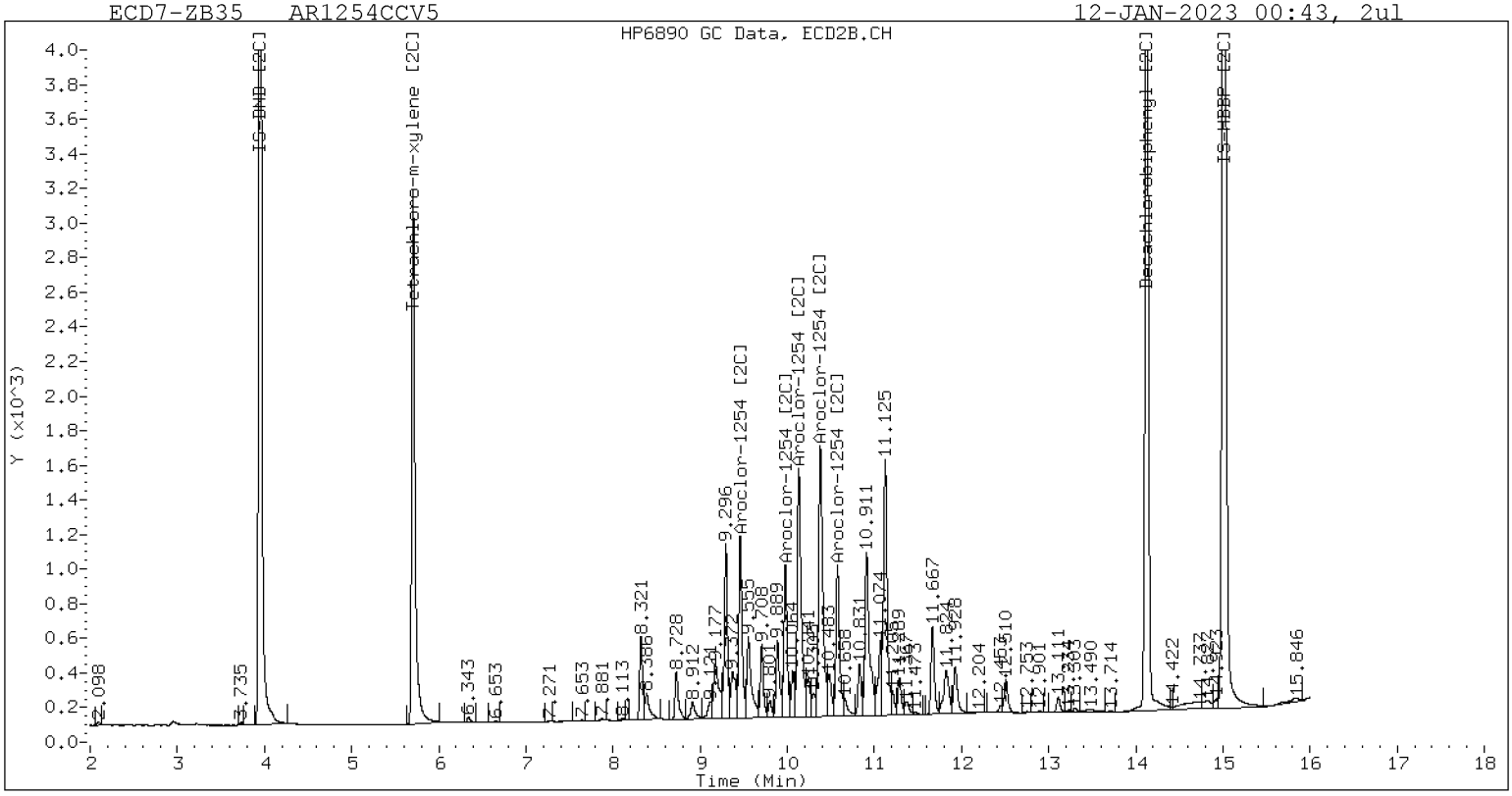
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 12-JAN-2023 00:43, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 12-JAN-2023 00:43, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112347ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/12/23
Lab Sample ID:	SLA0136-CCV6	Injection Time:	01:04
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	277	0.0441939	0.0484368		10.6	+/-20	
Aroclor-1016 (1)	A	250.00	273	0.0266860	0.0291073		9.2		
Aroclor-1016 (2)	A	250.00	268	0.0861572	0.0923963		7.2		
Aroclor-1016 (3)	A	250.00	284	0.0390425	0.0442901		13.6		
Aroclor-1016 (4)	A	250.00	281	0.0248899	0.0279536		12.4		
Aroclor 1016 [2C]	A	250.00	254	0.0467310	0.0469357		1.6	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	254	0.0409030	0.0415867		1.6		
Aroclor-1016 (2) [2C]	A	250.00	247	0.0882154	0.0871976		-1.2		
Aroclor-1016 (3) [2C]	A	250.00	250	0.0378846	0.0378169		0.0		
Aroclor-1016 (4) [2C]	A	250.00	265	0.0199212	0.0211413		6.0		
Aroclor 1260	A	250.00	319	0.0390342	0.0497256		27.8	+/-20	*
Aroclor-1260 (1)	A	250.00	326	0.0291201	0.0380255		30.4		
Aroclor-1260 (2)	A	250.00	325	0.0301181	0.0391694		30.0		
Aroclor-1260 (3)	A	250.00	317	0.0791351	0.1004971		26.8		
Aroclor-1260 (4)	A	250.00	308	0.0403003	0.0497262		23.2		
Aroclor-1260 (5)	A	250.00	321	0.0164974	0.0212096		28.4		
Aroclor 1260 [2C]	A	250.00	263	0.0617619	0.0643563		5.2	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	263	0.0422283	0.0444217		5.2		
Aroclor-1260 (2) [2C]	A	250.00	255	0.1059643	0.1079725		2.0		
Aroclor-1260 (3) [2C]	A	250.00	271	0.0282173	0.0305917		8.4		
Aroclor-1260 (4) [2C]	A	250.00	263	0.0706376	0.0744394		5.2		
Decachlorobiphenyl	A	40.000	44.4	0.7333327	0.8132054		11.0	+/-20	
Tetrachlorometaxylene	A	40.000	42.3	1.1336710	1.1983000		5.8	+/-20	
Decachlorobiphenyl [2C]	A	40.000	41.3	1.1358180	1.1739830		3.3	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	41.6	1.0966080	1.1401370		4.0	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112347ECD7.D
Data file 2: /230111.b/230111.b/01112347ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 12-JAN-2023 01:04
Report Date: 01/14/2023 13:22
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	238796	5.707	-0.000	176431	42.3	41.6	1.7	Tetrachloro-m-xylene
13.902	0.000	262077	14.127	0.000	268662	44.4	41.3	7.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	398558	-11.0
Hexabromobiphenyl	798898	644553	-19.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	309491	24.2
Hexabromobiphenyl	362541	457693	26.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.000	36253	272.7	1	7.271	-0.000	40221	254.2
Aroclor-1016	2	7.677	-0.002	115079	268.1	2	7.871	0.000	84334	247.1
Aroclor-1016	3	7.812	0.000	55163	283.6	3	8.069	-0.001	36575	249.6
Aroclor-1016	4	8.422	-0.000	34816	280.8	4	8.241	-0.000	20447	265.3
Total Col1Ave (4 peaks):					276.3	Total Col2Ave (4 peaks):				254.0 RPD = 8
Corrected Ave (3 peaks):					273.9	Corrected Ave (3 peaks):				250.3 RPD = 9
CalAmt %D:					10.5	CalAmt %D:				1.6
Aroclor-1260	1	11.057	-0.001	76592	326.5	1	11.661	-0.000	63536	263.0
Aroclor-1260	2	11.373	-0.001	78896	325.1	2	11.924	-0.001	154432	254.7
Aroclor-1260	3	11.745	-0.002	202424	317.5	3	12.443	-0.001	43755	271.0
Aroclor-1260	4	12.151	-0.002	100160	308.5	4	12.508	-0.002	106470	263.5
Aroclor-1260	5	12.255	-0.001	42721	321.4	NS	---			----
Total Col1Ave (5 peaks):					319.8	Total Col2Ave (4 peaks):				263.1 RPD = 19
Corrected Ave (4 peaks):					318.1	Corrected Ave (3 peaks):				260.4 RPD = 20
CalAmt %D:					27.9	CalAmt %D:				5.2

Total PCB Area Col1 (5.931 - 13.802) = 2211917 Col1 Total PCB = 0.6 ppm*

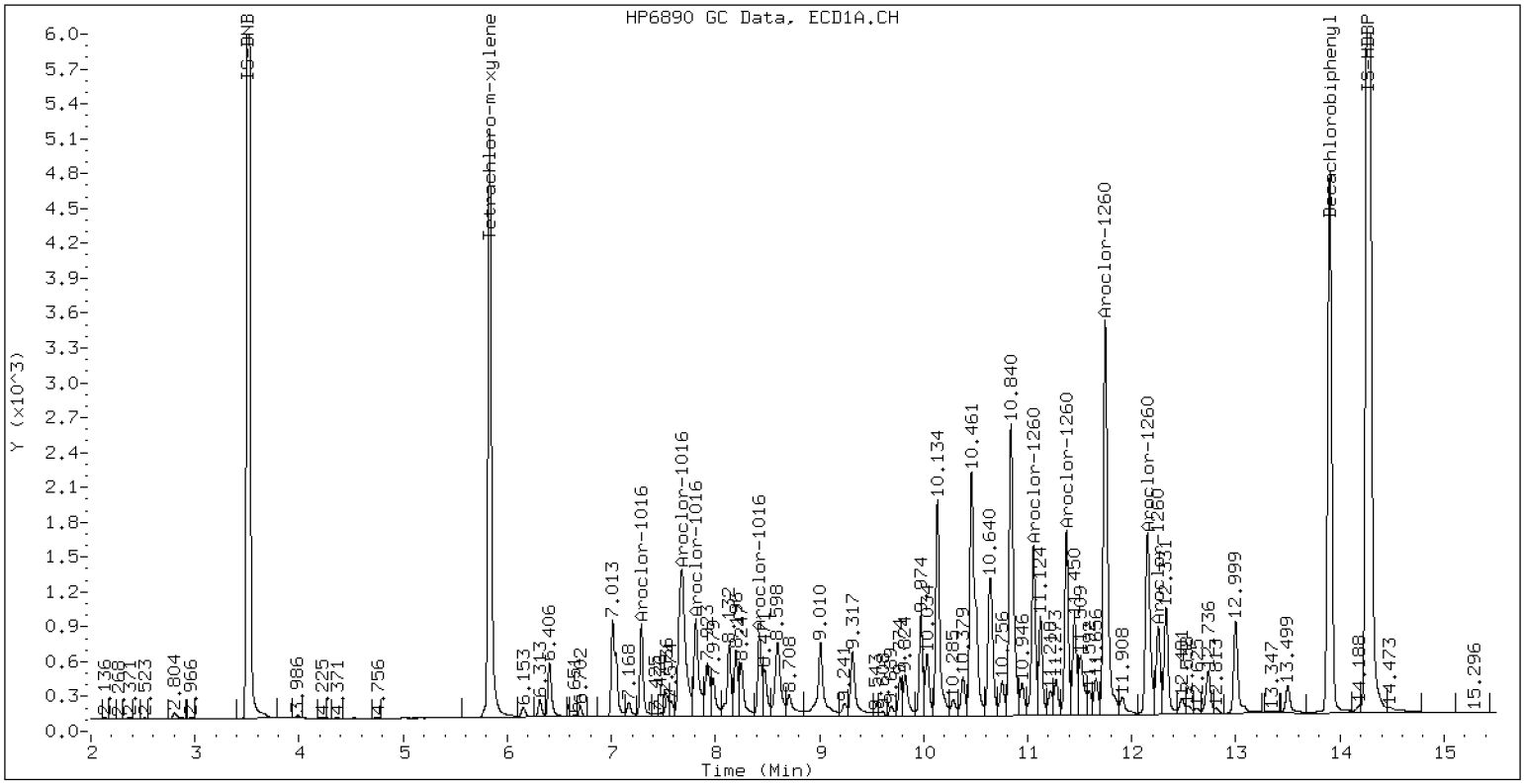
Total PCB Area Col2 (5.807 - 14.027) = 1533610 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

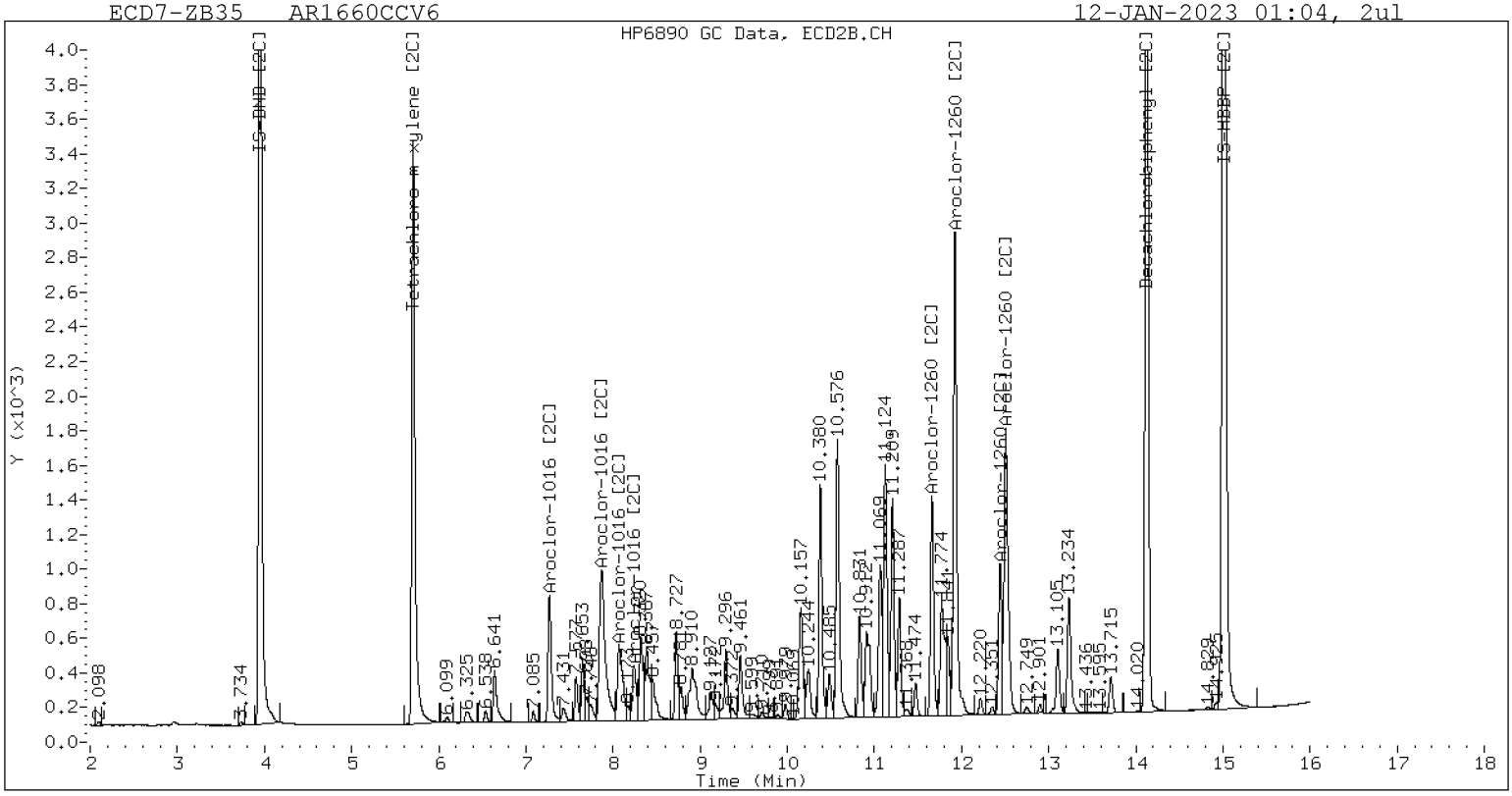
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 12-JAN-2023 01:04, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 12-JAN-2023 01:04, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112359ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/12/23
Lab Sample ID:	SLA0136-CCV7	Injection Time:	05:17
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	277	0.0490062	0.0562444		10.8	+/-20
Aroclor-1248 (1)	A	250.00	283		0.0389967			
Aroclor-1248 (2)	A	250.00	302		0.0529896			
Aroclor-1248 (3)	A	250.00	322		0.1018439			
Aroclor-1248 (4)	A	250.00	201		0.0311476			
Aroclor 1248 [2C]	A	250.00	268	0.0394876	0.0426593		7.1	+/-20
Aroclor-1248 (1) [2C]	A	250.00	273		0.0356515			
Aroclor-1248 (2) [2C]	A	250.00	227		0.0311569			
Aroclor-1248 (3) [2C]	A	250.00	290		0.0485874			
Aroclor-1248 (4) [2C]	A	250.00	281		0.0552417			
Decachlorobiphenyl	A	40.000	41.6	0.7333327	0.7630693		4.0	+/-20
Tetrachlorometaxylene	A	40.000	37.3	1.1336710	1.0564740		-6.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.0	1.1358180	1.1643490		2.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.7	1.0966080	1.0331250		-5.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112359ECD7.D
Data file 2: /230111.b/230111.b/01112359ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 12-JAN-2023 05:17
Report Date: 01/14/2023 13:22
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	214022	5.708	0.000	161417	37.3	37.7	1.1	Tetrachloro-m-xylene
13.902	0.000	310673	14.127	-0.000	303083	41.6	41.0	1.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	405163	-9.5
Hexabromobiphenyl	798898	814272	1.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	312483	25.4
Hexabromobiphenyl	362541	520605	43.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1248	1	8.423	-0.001	49375	283.4	1	8.321	0.000	34814	272.7
Aroclor-1248	2	8.599	-0.001	67092	301.6	2	8.727	0.000	30425	226.6
Aroclor-1248	3	9.018	0.002	128948	322.3	3	9.174	0.000	47446	290.5
Aroclor-1248	4	9.310	0.000	39437	201.2	4	9.598	0.000	53944	281.4
Total Col1Ave (4 peaks):					277.1	Total Col2Ave (4 peaks):				267.8 RPD = 3
Corrected Ave (3 peaks):					262.1	Corrected Ave (3 peaks):				260.2 RPD = 1
CalAmt %D:					10.9	CalAmt %D:				7.1

Total PCB Area Col1 (5.931 - 13.802) = 1054779 Col1 Total PCB = 0.3 ppm*

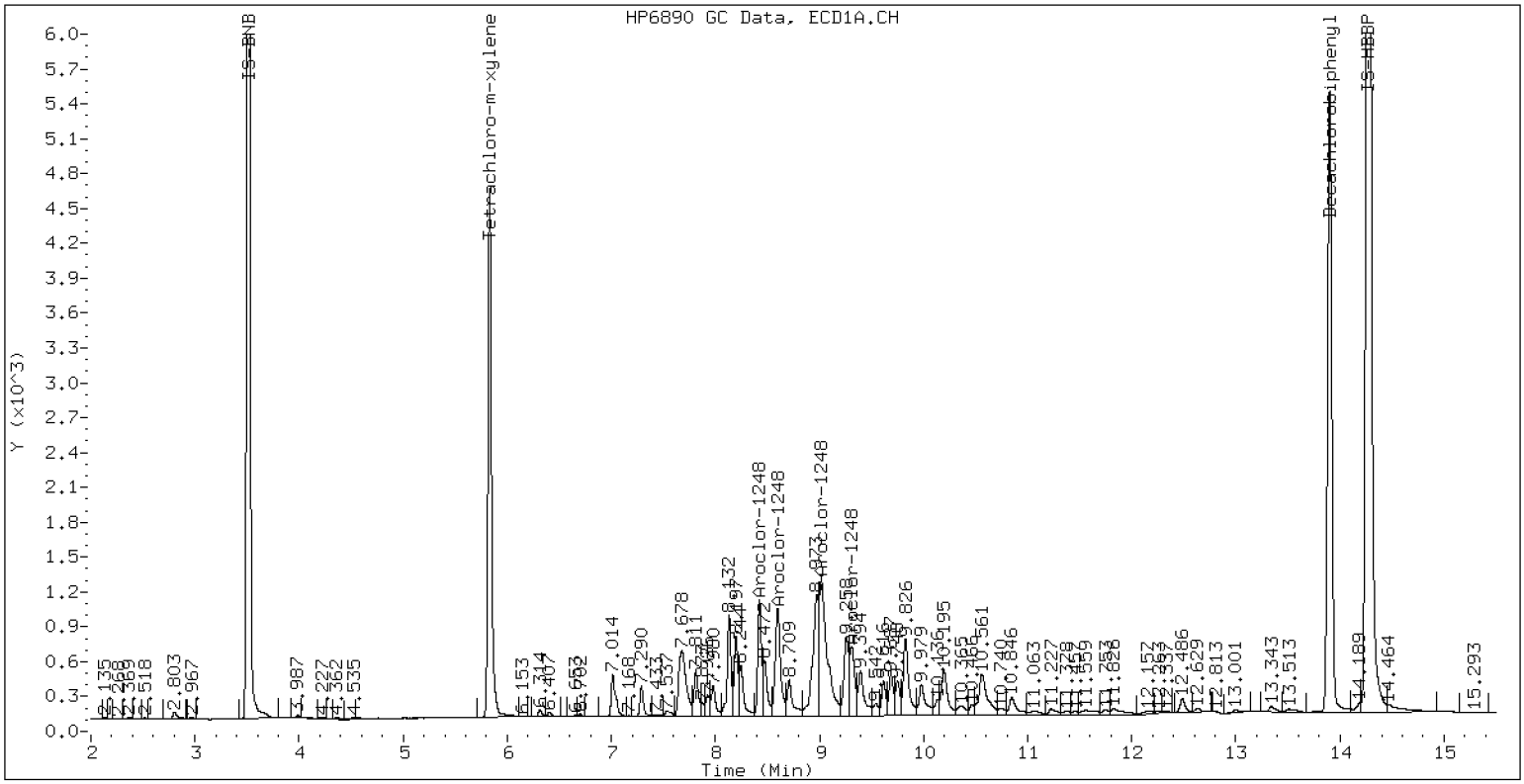
Total PCB Area Col2 (5.807 - 14.027) = 691493 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

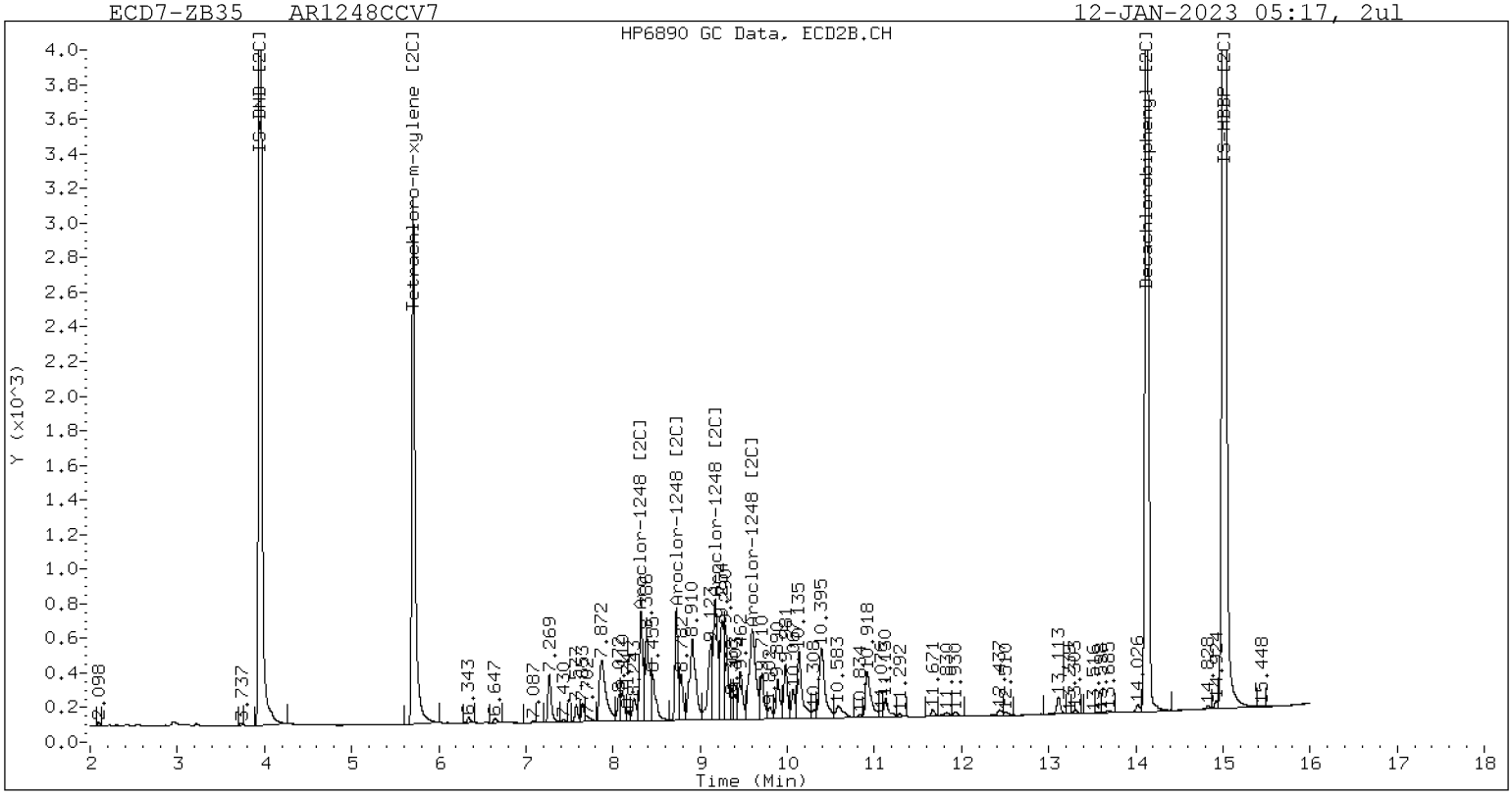
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 12-JAN-2023 05:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7 12-JAN-2023 05:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112360ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/12/23
Lab Sample ID:	SLA0136-CCV8	Injection Time:	05:38
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	284	0.0441939	0.0495915		13.4	+/-20
Aroclor-1016 (1)	A	250.00	275	0.0266860	0.0293753		10.0	
Aroclor-1016 (2)	A	250.00	273	0.0861572	0.0941452		9.2	
Aroclor-1016 (3)	A	250.00	291	0.0390425	0.0454537		16.4	
Aroclor-1016 (4)	A	250.00	295	0.0248899	0.0293920		18.0	
Aroclor 1016 [2C]	A	250.00	257	0.0467310	0.0473682		2.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	253	0.0409030	0.0413374		1.2	
Aroclor-1016 (2) [2C]	A	250.00	250	0.0882154	0.0881882		0.0	
Aroclor-1016 (3) [2C]	A	250.00	255	0.0378846	0.0386293		2.0	
Aroclor-1016 (4) [2C]	A	250.00	268	0.0199212	0.0213178		7.2	
Aroclor 1260	A	250.00	288	0.0390342	0.0447861		15.0	+/-20
Aroclor-1260 (1)	A	250.00	289	0.0291201	0.0336195		15.6	
Aroclor-1260 (2)	A	250.00	292	0.0301181	0.0351303		16.8	
Aroclor-1260 (3)	A	250.00	287	0.0791351	0.0909342		14.8	
Aroclor-1260 (4)	A	250.00	280	0.0403003	0.0450953		12.0	
Aroclor-1260 (5)	A	250.00	290	0.0164974	0.0191512		16.0	
Aroclor 1260 [2C]	A	250.00	252	0.0617619	0.0616769		0.9	+/-20
Aroclor-1260 (1) [2C]	A	250.00	253	0.0422283	0.0427318		1.2	
Aroclor-1260 (2) [2C]	A	250.00	243	0.1059643	0.1030720		-2.8	
Aroclor-1260 (3) [2C]	A	250.00	260	0.0282173	0.0293841		4.0	
Aroclor-1260 (4) [2C]	A	250.00	253	0.0706376	0.0715196		1.2	
Decachlorobiphenyl	A	40.000	43.0	0.7333327	0.7888086		7.5	+/-20
Tetrachlorometaxylene	A	40.000	41.9	1.1336710	1.1865730		4.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.6	1.1358180	1.1826410		4.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.5	1.0966080	1.1105490		1.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112360ECD7.D
Data file 2: /230111.b/230111.b/01112360ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 12-JAN-2023 05:38
Report Date: 01/14/2023 13:22
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	239298	5.707	-0.000	173289	41.9	40.5	3.3	Tetrachloro-m-xylene
13.902	-0.000	318937	14.128	0.001	306835	43.0	41.6	3.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	403343	-9.9
Hexabromobiphenyl	798898	808655	1.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	312078	25.3
Hexabromobiphenyl	362541	518898	43.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.289	-0.000	37026	275.2	1	7.270	-0.001	40314	252.7
Aroclor-1016	2	7.677	-0.002	118665	273.2	2	7.870	-0.000	86005	249.9
Aroclor-1016	3	7.811	-0.001	57292	291.1	3	8.070	0.000	37673	254.9
Aroclor-1016	4	8.422	-0.001	37047	295.2	4	8.240	-0.001	20790	267.5
Total Col1Ave (4 peaks):				283.7		Total Col2Ave (4 peaks):			256.3	RPD = 10
Corrected Ave (3 peaks):				279.8		Corrected Ave (3 peaks):			252.5	RPD = 10
CalAmt %D:				13.5		CalAmt %D:			2.5	
Aroclor-1260	1	11.056	-0.001	84958	288.6	1	11.662	0.001	69292	253.0
Aroclor-1260	2	11.372	-0.002	88776	291.6	2	11.925	-0.000	167137	243.2
Aroclor-1260	3	11.745	-0.002	229795	287.3	3	12.443	-0.001	47648	260.3
Aroclor-1260	4	12.151	-0.003	113958	279.7	4	12.509	-0.000	115973	253.1
Aroclor-1260	5	12.254	-0.002	48396	290.2	NS	---			----
Total Col1Ave (5 peaks):				287.5		Total Col2Ave (4 peaks):			252.4	RPD = 13
Corrected Ave (4 peaks):				286.5		Corrected Ave (3 peaks):			249.8	RPD = 14
CalAmt %D:				15.0		CalAmt %D:			1.0	

Total PCB Area Col1 (5.931 - 13.802) = 2414946 Col1 Total PCB = 0.6 ppm*

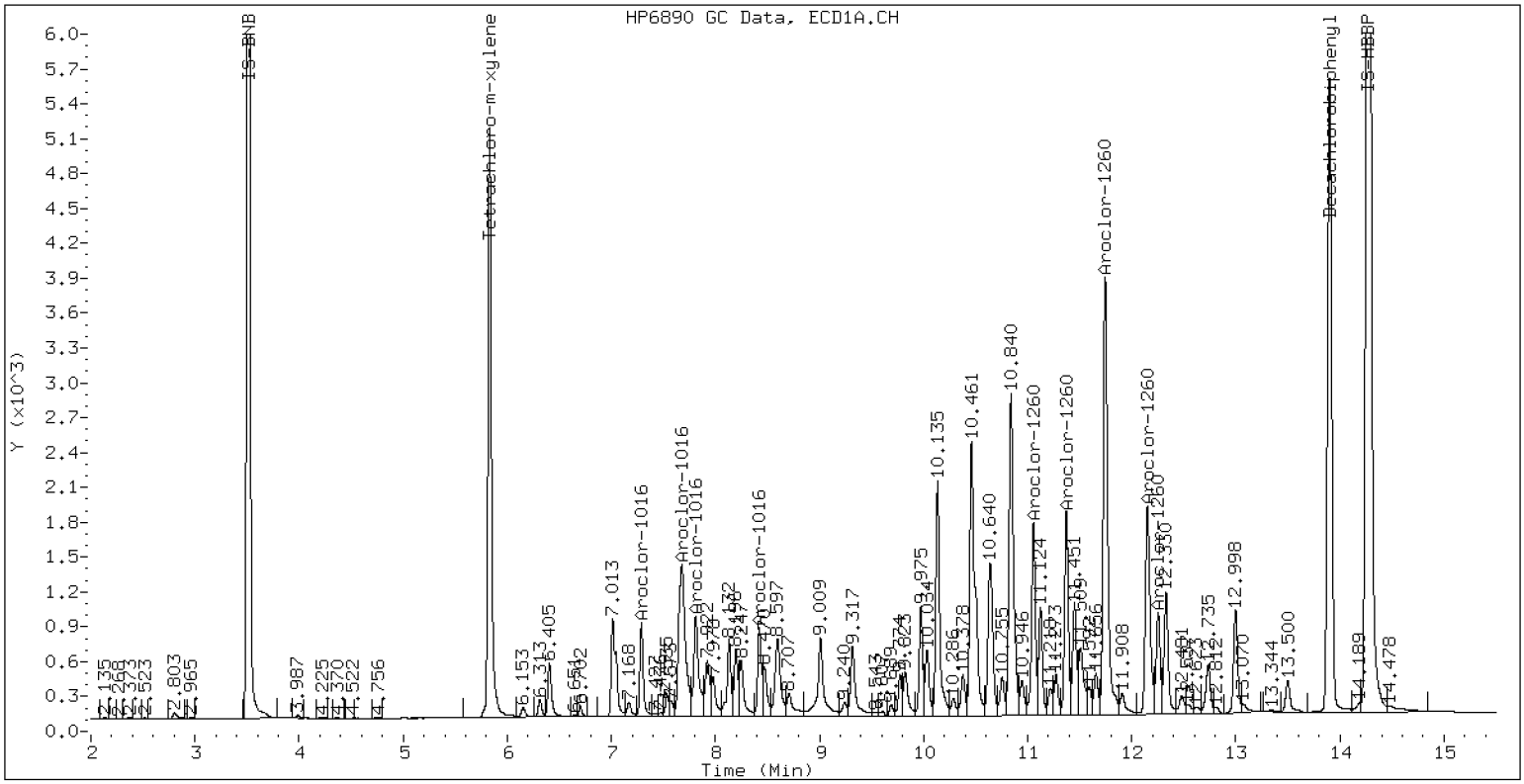
Total PCB Area Col2 (5.807 - 14.027) = 1636225 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

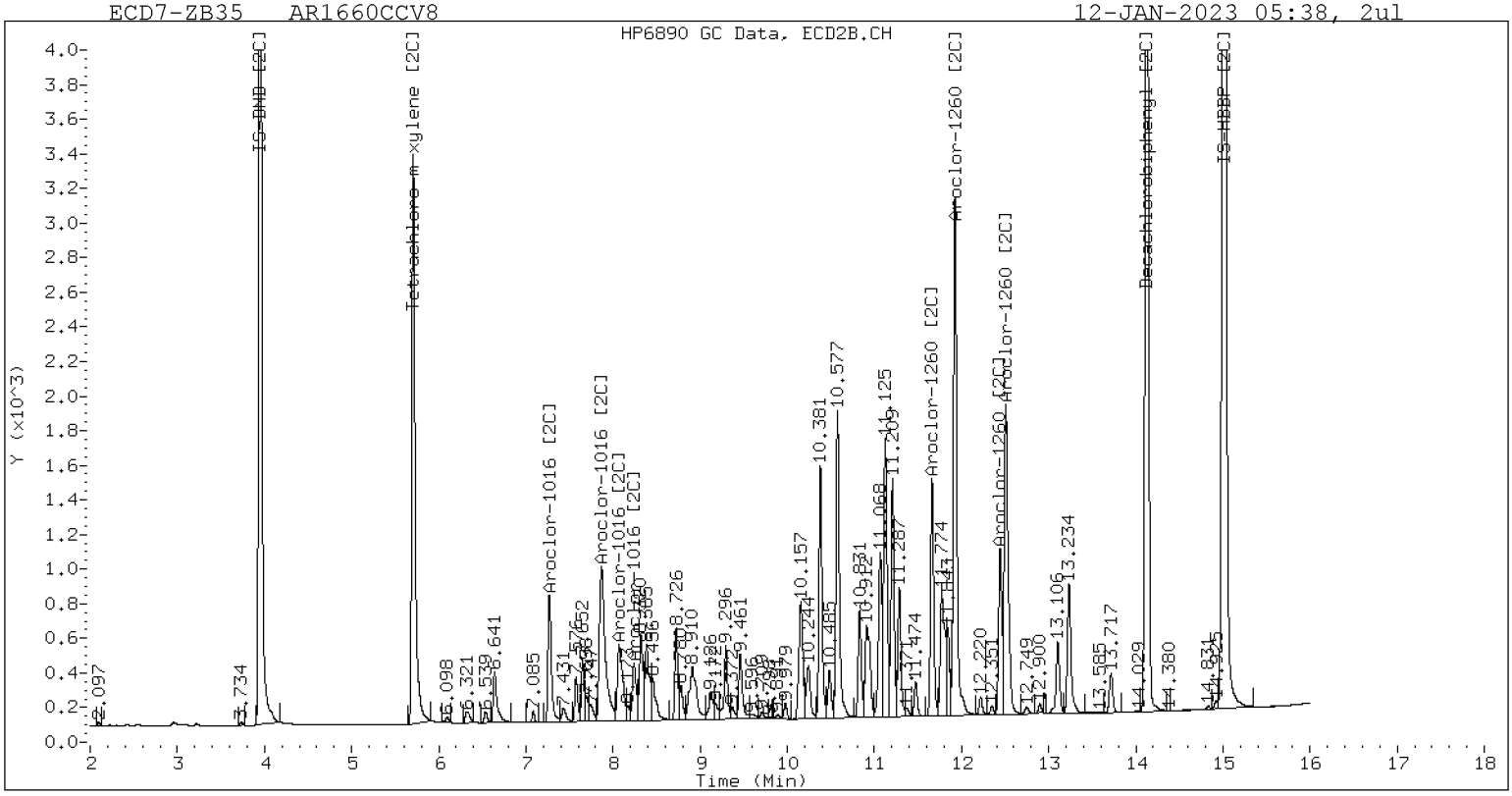
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 12-JAN-2023 05:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 12-JAN-2023 05:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112374ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/12/23
Lab Sample ID:	SLA0136-CCV9	Injection Time:	10:33
Sequence Name:	AR1242CCV9		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	287	0.0396000	0.0453334		14.9	+/-20
Aroclor-1242 (1)	A	250.00	270		0.0245075			
Aroclor-1242 (2)	A	250.00	266		0.0765524			
Aroclor-1242 (3)	A	250.00	283		0.0234507			
Aroclor-1242 (4)	A	250.00	330		0.0568230			
Aroclor 1242 [2C]	A	250.00	275	0.0391981	0.0422874		9.8	+/-20
Aroclor-1242 (1) [2C]	A	250.00	257		0.0347896			
Aroclor-1242 (2) [2C]	A	250.00	262		0.0751991			
Aroclor-1242 (3) [2C]	A	250.00	286		0.0265318			
Aroclor-1242 (4) [2C]	A	250.00	293		0.0326292			
Decachlorobiphenyl	A	40.000	39.6	0.7333327	0.7263718		-1.0	+/-20
Tetrachlorometaxylene	A	40.000	38.8	1.1336710	1.1003940		-3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.7	1.1358180	1.1270300		-0.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.2	1.0966080	1.0485860		-4.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112374ECD7.D
Data file 2: /230111.b/230111.b/01112374ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV9
Client ID:
Injection Date: 12-JAN-2023 10:33
Report Date: 01/14/2023 13:23
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.001	228898	5.709	0.001	166580	38.8	38.2	1.5	Tetrachloro-m-xylene
13.903	0.001	362587	14.128	0.001	346786	39.6	39.7	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	416029	-7.1
Hexabromobiphenyl	798898	998351	25.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	317723	27.6
Hexabromobiphenyl	362541	615398	69.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.290	-0.001	31862	270.2	1	7.272	0.000	34542	256.9
Aroclor-1242	2	7.680	-0.002	99525	265.8	2	7.873	0.000	74664	261.6
Aroclor-1242	3	8.425	-0.001	30488	283.0	3	9.179	0.000	26343	286.0
Aroclor-1242	4	9.019	0.001	73875	330.3	4	9.605	0.000	32397	292.7
Total Col1Ave (4 peaks):					287.3	Total Col2Ave (4 peaks):				274.3 RPD = 5
Corrected Ave (3 peaks):					273.0	Corrected Ave (3 peaks):				268.2 RPD = 2
CalAmt %D:					14.9	CalAmt %D:				9.7

Total PCB Area Col1 (5.931 - 13.802) = 836025 Col1 Total PCB = 0.2 ppm*

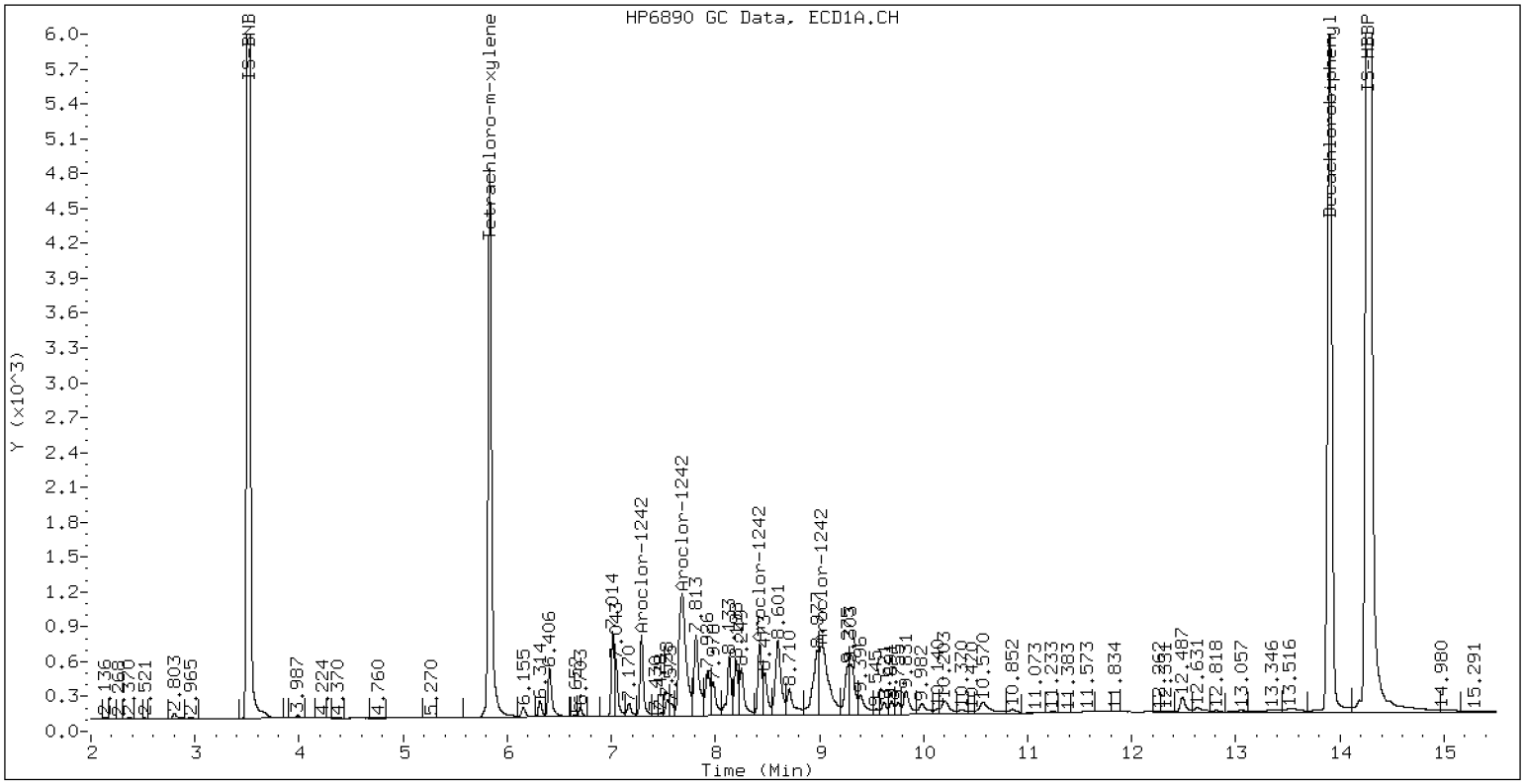
Total PCB Area Col2 (5.807 - 14.027) = 561180 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

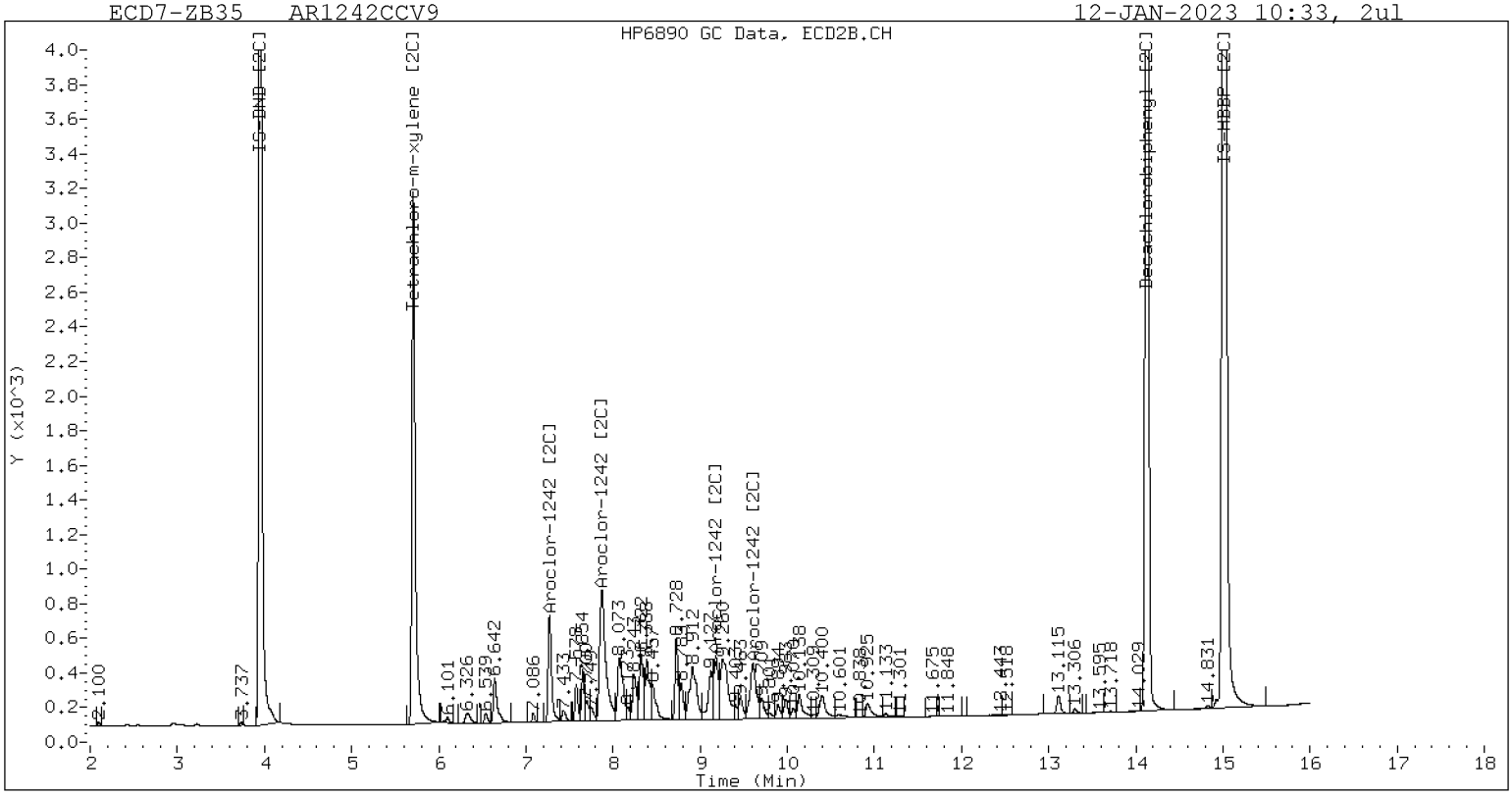
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV9 12-JAN-2023 10:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV9 12-JAN-2023 10:33, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01112375ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0136	Injection Date:	01/12/23
Lab Sample ID:	SLA0136-CCVA	Injection Time:	10:54
Sequence Name:	AR1660CCVA		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	282	0.0441939	0.0492889		12.9	+/-20
Aroclor-1016 (1)	A	250.00	272	0.0266860	0.0290696		8.8	
Aroclor-1016 (2)	A	250.00	271	0.0861572	0.0933278		8.4	
Aroclor-1016 (3)	A	250.00	290	0.0390425	0.0453148		16.0	
Aroclor-1016 (4)	A	250.00	296	0.0248899	0.0294433		18.4	
Aroclor 1016 [2C]	A	250.00	257	0.0467310	0.0475834		2.9	+/-20
Aroclor-1016 (1) [2C]	A	250.00	252	0.0409030	0.0412267		0.8	
Aroclor-1016 (2) [2C]	A	250.00	251	0.0882154	0.0886282		0.4	
Aroclor-1016 (3) [2C]	A	250.00	257	0.0378846	0.0390081		2.8	
Aroclor-1016 (4) [2C]	A	250.00	269	0.0199212	0.0214705		7.6	
Aroclor 1260	A	250.00	270	0.0390342	0.0420692		7.8	+/-20
Aroclor-1260 (1)	A	250.00	266	0.0291201	0.0309902		6.4	
Aroclor-1260 (2)	A	250.00	272	0.0301181	0.0328297		8.8	
Aroclor-1260 (3)	A	250.00	271	0.0791351	0.0858990		8.4	
Aroclor-1260 (4)	A	250.00	263	0.0403003	0.0423975		5.2	
Aroclor-1260 (5)	A	250.00	276	0.0164974	0.0182296		10.4	
Aroclor 1260 [2C]	A	250.00	229	0.0617619	0.0559215		-8.4	+/-20
Aroclor-1260 (1) [2C]	A	250.00	226	0.0422283	0.0382373		-9.6	
Aroclor-1260 (2) [2C]	A	250.00	219	0.1059643	0.0927219		-12.4	
Aroclor-1260 (3) [2C]	A	250.00	238	0.0282173	0.0268148		-4.8	
Aroclor-1260 (4) [2C]	A	250.00	233	0.0706376	0.0659118		-6.8	
Decachlorobiphenyl	A	40.000	42.3	0.7333327	0.7748461		5.8	+/-20
Tetrachlorometaxylene	A	40.000	41.4	1.1336710	1.1742500		3.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.1	1.1358180	1.1400580		0.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.4	1.0966080	1.1063700		1.0	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230111.b/01112375ECD7.D
Data file 2: /230111.b/230111.b/01112375ECD7.D
Method: \\target\share\chem4\ecd7.i\230111.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVA
Client ID:
Injection Date: 12-JAN-2023 10:54
Report Date: 01/14/2023 13:23
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.001	240777	5.707	0.000	173783	41.4	40.4	2.6	Tetrachloro-m-xylene
13.901	-0.001	366983	14.127	0.000	344570	42.3	40.1	5.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	410095	-8.4
Hexabromobiphenyl	798898	947241	18.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	314150	26.1
Hexabromobiphenyl	362541	604478	66.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.000	37254	272.3	1	7.271	0.000	40473	252.0
Aroclor-1016	2	7.677	-0.002	119604	270.8	2	7.871	0.000	87008	251.2
Aroclor-1016	3	7.812	0.000	58073	290.2	3	8.070	0.000	38295	257.4
Aroclor-1016	4	8.423	-0.000	37733	295.7	4	8.242	0.000	21078	269.4
Total Col1Ave (4 peaks):					282.3	Total Col2Ave (4 peaks):				257.5 RPD = 9
Corrected Ave (3 peaks):					277.8	Corrected Ave (3 peaks):				253.5 RPD = 9
CalAmt %D:					12.9	CalAmt %D:				3.0
Aroclor-1260	1	11.055	-0.002	91735	266.1	1	11.662	0.000	72230	226.4
Aroclor-1260	2	11.372	-0.001	97180	272.5	2	11.925	0.000	175151	218.8
Aroclor-1260	3	11.746	-0.001	254272	271.4	3	12.445	0.000	50653	237.6
Aroclor-1260	4	12.152	-0.001	125502	263.0	4	12.509	0.000	124507	233.3
Aroclor-1260	5	12.255	-0.001	53962	276.3	NS	---			----
Total Col1Ave (5 peaks):					269.8	Total Col2Ave (4 peaks):				229.0 RPD = 16
Corrected Ave (4 peaks):					268.2	Corrected Ave (3 peaks):				226.1 RPD = 17
CalAmt %D:					7.9	CalAmt %D:				-8.4

Total PCB Area Col1 (5.931 - 13.802) = 2565415 Col1 Total PCB = 0.7 ppm*

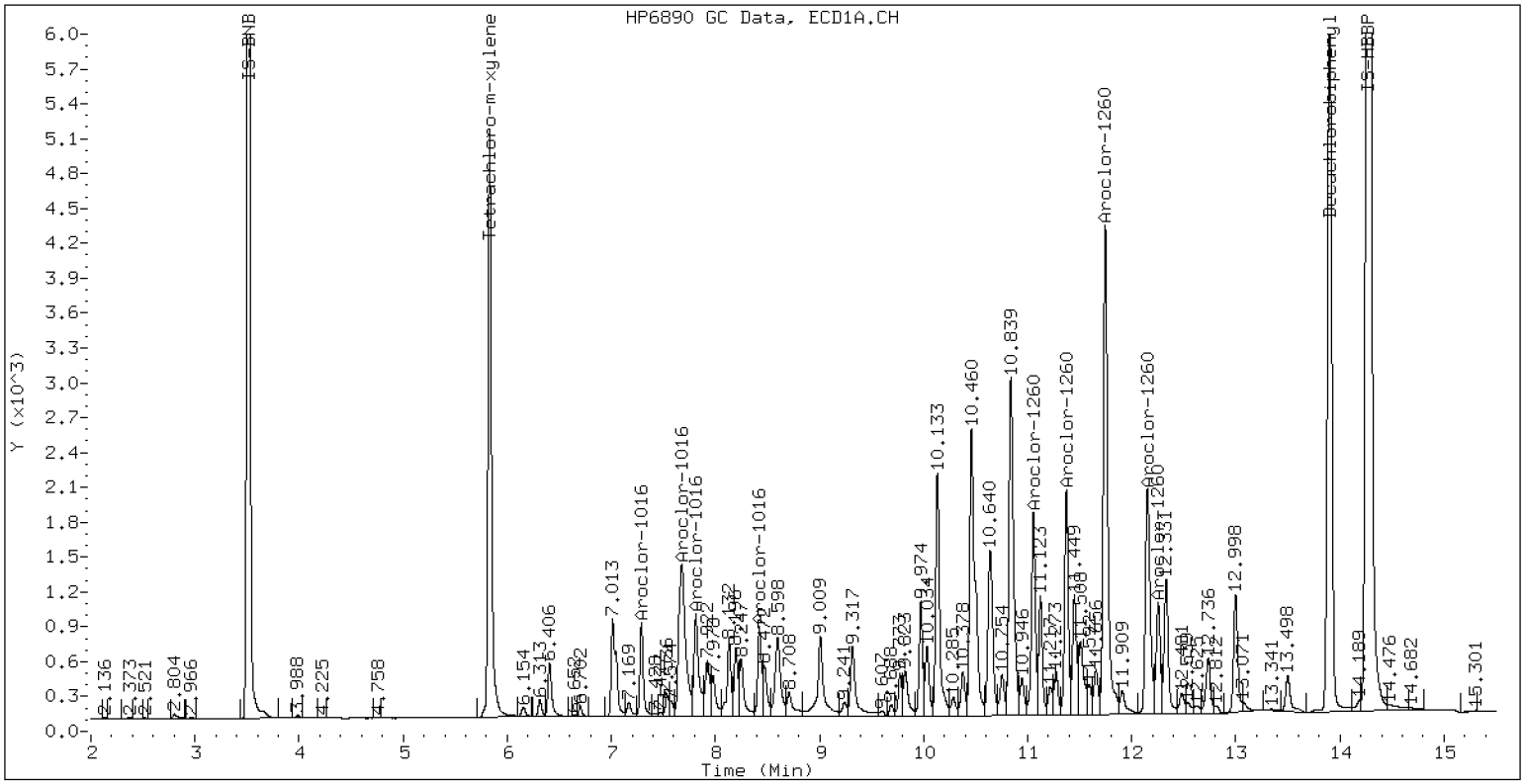
Total PCB Area Col2 (5.807 - 14.027) = 1703605 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

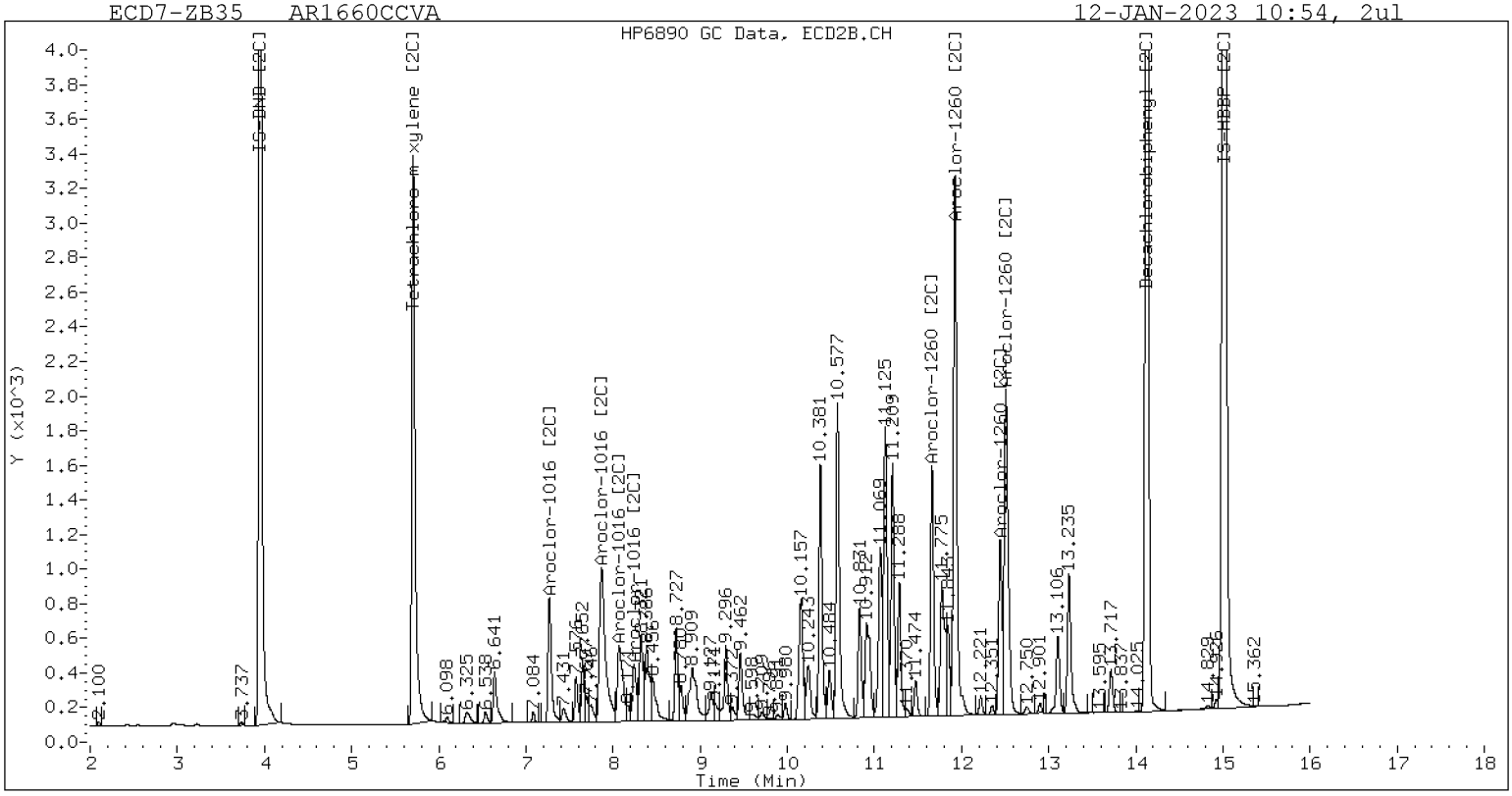
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVA 12-JAN-2023 10:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVA 12-JAN-2023 10:54, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01122312ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0139	Injection Date:	01/12/23
Lab Sample ID:	SLA0139-CCV3	Injection Time:	15:32
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	257	0.0396000	0.0401228		2.9	+/-20
Aroclor-1242 (1)	A	250.00	271		0.0246243			
Aroclor-1242 (2)	A	250.00	262		0.0754254			
Aroclor-1242 (3)	A	250.00	279		0.0231369			
Aroclor-1242 (4)	A	250.00	217		0.0373048			
Aroclor 1242 [2C]	A	250.00	273	0.0391981	0.0422672		9.1	+/-20
Aroclor-1242 (1) [2C]	A	250.00	265		0.0358718			
Aroclor-1242 (2) [2C]	A	250.00	263		0.0755425			
Aroclor-1242 (3) [2C]	A	250.00	276		0.0256517			
Aroclor-1242 (4) [2C]	A	250.00	287		0.0320030			
Decachlorobiphenyl	A	40.000	39.9	0.7333327	0.7310073		-0.3	+/-20
Tetrachlorometaxylene	A	40.000	39.7	1.1336710	1.1262350		-0.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.8	1.1358180	1.1291410		-0.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.1	1.0966080	1.0439770		-4.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230112.b/01122312ECD7.D
Data file 2: /230112.b/230112.b/01122312ECD7.D
Method: \\target\share\chem4\ecd7.i\230112.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 12-JAN-2023 15:32
Report Date: 01/15/2023 07:21
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	210316	5.707	-0.000	153012	39.7	38.1	4.3	Tetrachloro-m-xylene
13.902	0.000	328344	14.128	0.001	320737	39.9	39.8	0.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	373485	-16.6
Hexabromobiphenyl	798898	898333	12.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	293133	17.7
Hexabromobiphenyl	362541	568108	56.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.289	0.000	28740	271.5	1	7.271	0.000	32860	264.9
Aroclor-1242	2	7.678	0.000	88032	261.9	2	7.874	0.000	69200	262.8
Aroclor-1242	3	8.424	0.000	27004	279.2	3	9.178	0.000	23498	276.6
Aroclor-1242	4	9.004	0.000	43540	216.8	4	9.604	0.000	29316	287.1
Total Col1Ave (4 peaks):					257.4	Total Col2Ave (4 peaks):				272.8 RPD = 6
Corrected Ave (3 peaks):					250.1	Corrected Ave (3 peaks):				268.1 RPD = 7
CalAmt %D:					2.9	CalAmt %D:				9.1

Total PCB Area Col1 (5.931 - 13.802) = 755997 Col1 Total PCB = 0.2 ppm*

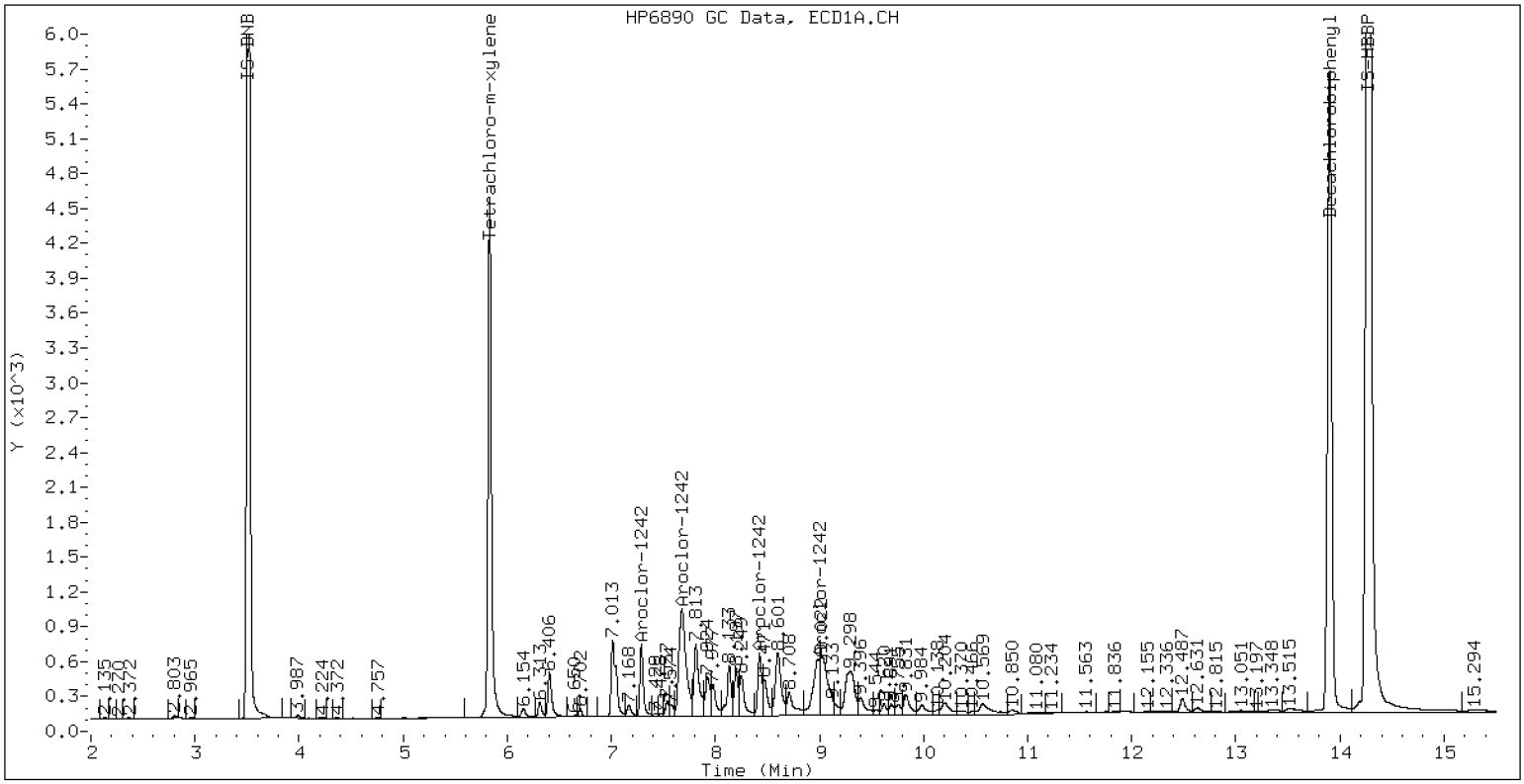
Total PCB Area Col2 (5.808 - 14.027) = 523164 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

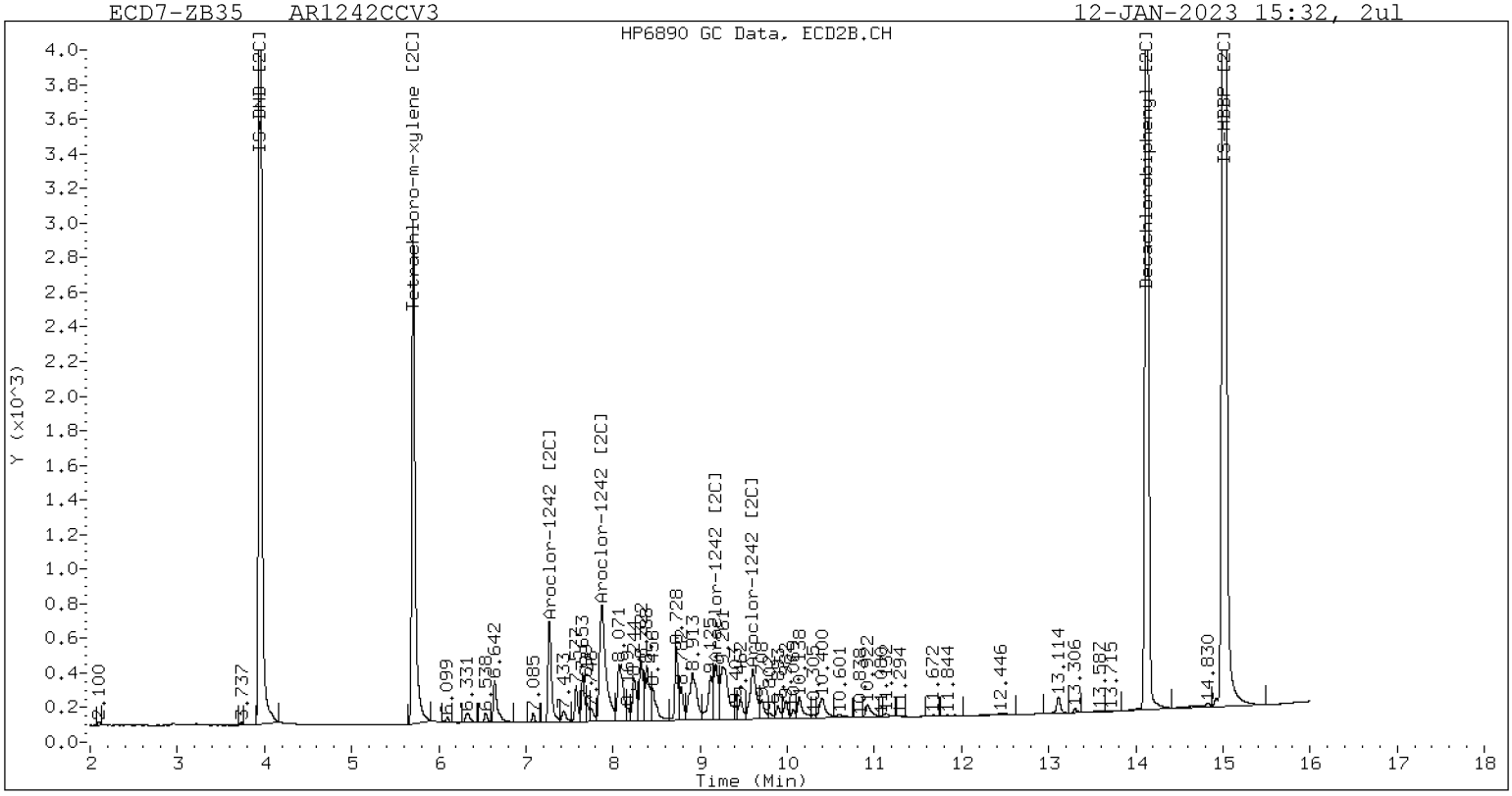
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 12-JAN-2023 15:32, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV3 12-JAN-2023 15:32, 2ul

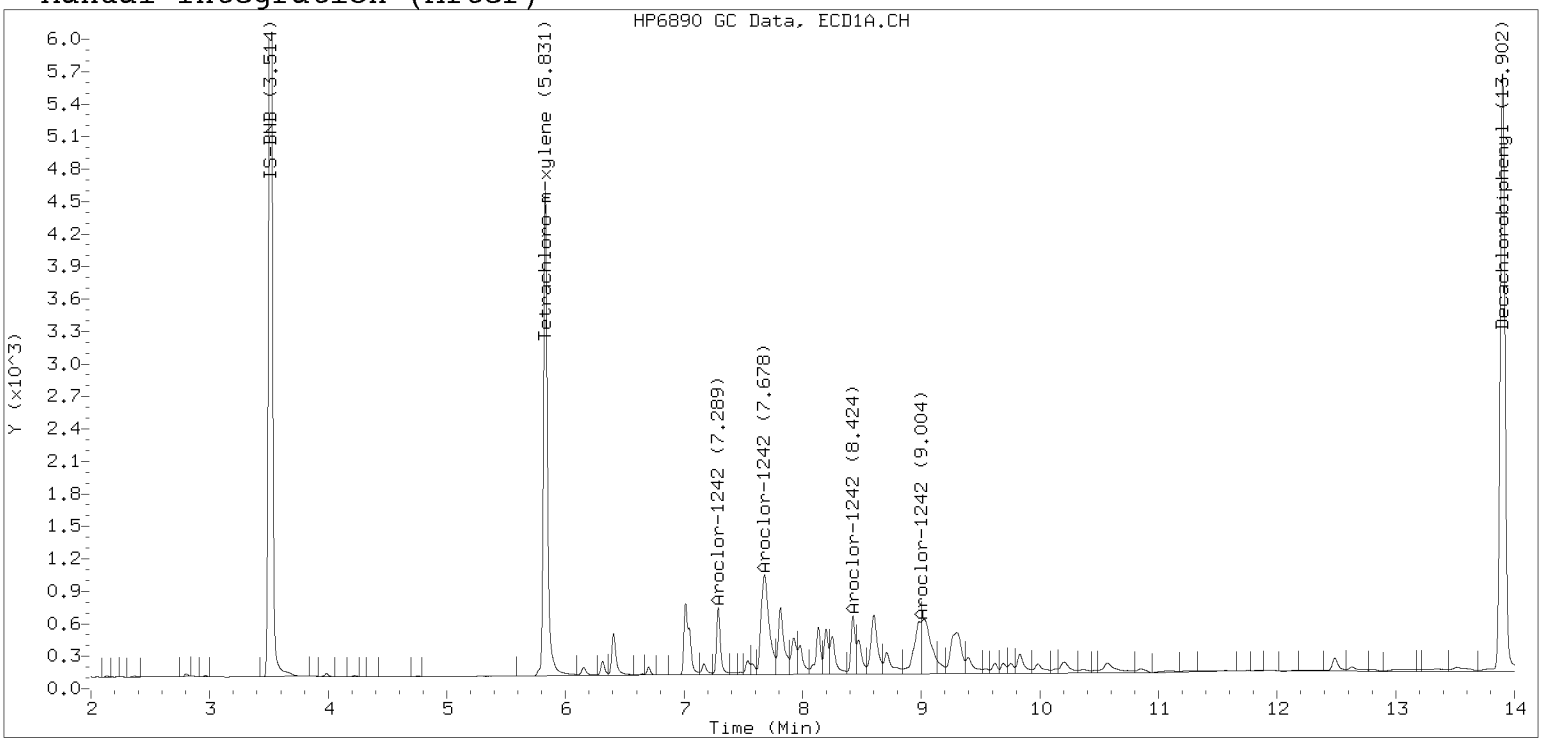


ZB-35 Manual Integration: NO

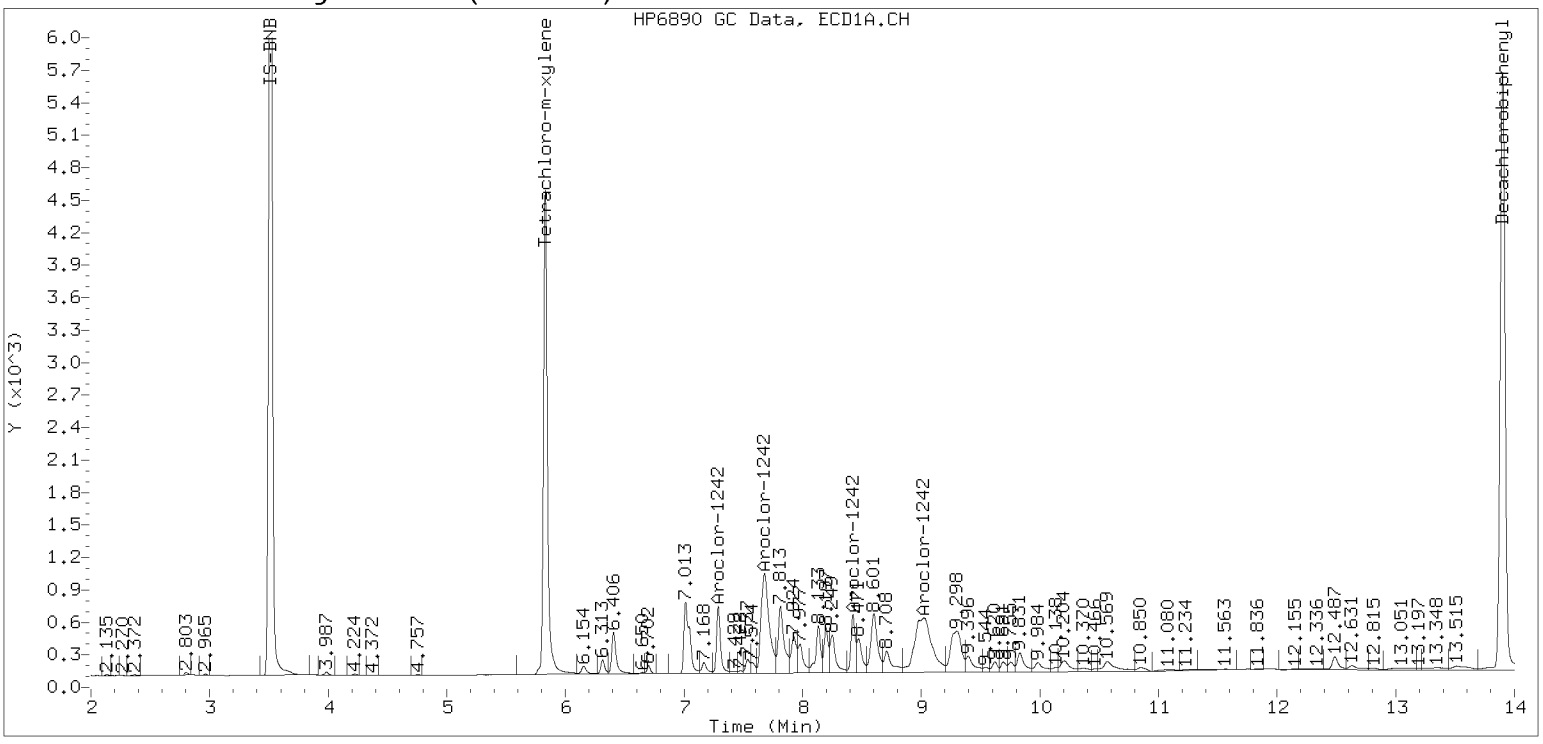
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230112.b/01122312ECD7.D Injection Date: 12-JAN-2023 15:32

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01122313ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0139	Injection Date:	01/12/23
Lab Sample ID:	SLA0139-CCV4	Injection Time:	15:53
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	284	0.0441939	0.0495535		13.6	+/-20
Aroclor-1016 (1)	A	250.00	279	0.0266860	0.0298182		11.6	
Aroclor-1016 (2)	A	250.00	271	0.0861572	0.0933064		8.4	
Aroclor-1016 (3)	A	250.00	295	0.0390425	0.0461005		18.0	
Aroclor-1016 (4)	A	250.00	291	0.0248899	0.0289889		16.4	
Aroclor 1016 [2C]	A	250.00	253	0.0467310	0.0467119		1.1	+/-20
Aroclor-1016 (1) [2C]	A	250.00	256	0.0409030	0.0418116		2.4	
Aroclor-1016 (2) [2C]	A	250.00	245	0.0882154	0.0863892		-2.0	
Aroclor-1016 (3) [2C]	A	250.00	251	0.0378846	0.0380299		0.4	
Aroclor-1016 (4) [2C]	A	250.00	259	0.0199212	0.0206169		3.6	
Aroclor 1260	A	250.00	265	0.0390342	0.0412312		5.9	+/-20
Aroclor-1260 (1)	A	250.00	258	0.0291201	0.0301167		3.2	
Aroclor-1260 (2)	A	250.00	265	0.0301181	0.0319850		6.0	
Aroclor-1260 (3)	A	250.00	265	0.0791351	0.0839204		6.0	
Aroclor-1260 (4)	A	250.00	260	0.0403003	0.0419123		4.0	
Aroclor-1260 (5)	A	250.00	276	0.0164974	0.0182217		10.4	
Aroclor 1260 [2C]	A	250.00	221	0.0617619	0.0537247		-11.6	+/-20
Aroclor-1260 (1) [2C]	A	250.00	221	0.0422283	0.0372686		-11.6	
Aroclor-1260 (2) [2C]	A	250.00	208	0.1059643	0.0882994		-16.8	
Aroclor-1260 (3) [2C]	A	250.00	231	0.0282173	0.0260946		-7.6	
Aroclor-1260 (4) [2C]	A	250.00	224	0.0706376	0.0632363		-10.4	
Decachlorobiphenyl	A	40.000	43.1	0.7333327	0.7903424		7.8	+/-20
Tetrachlorometaxylene	A	40.000	42.9	1.1336710	1.2156350		7.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.0	1.1358180	1.1362770		0.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	41.5	1.0966080	1.1383370		3.8	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230112.b/01122313ECD7.D
Data file 2: /230112.b/230112.b/01122313ECD7.D
Method: \\target\share\chem4\ecd7.i\230112.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 12-JAN-2023 15:53
Report Date: 01/15/2023 07:21
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.001	207794	5.708	0.000	152240	42.9	41.5	3.2	Tetrachloro-m-xylene
13.902	0.001	317918	14.127	0.000	298054	43.1	40.0	7.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	341869	-23.6
Hexabromobiphenyl	798898	804507	0.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	267478	7.4
Hexabromobiphenyl	362541	524615	44.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	0.001	31856	279.3	1	7.271	0.000	34949	255.6
Aroclor-1016	2	7.679	0.001	99683	270.7	2	7.872	0.000	72210	244.8
Aroclor-1016	3	7.813	0.001	49251	295.2	3	8.072	0.000	31788	251.0
Aroclor-1016	4	8.424	0.001	30970	291.2	4	8.243	0.000	17233	258.7
Total Col1Ave (4 peaks):					284.1	Total Col2Ave (4 peaks):				252.5 RPD = 12
Corrected Ave (3 peaks):					280.4	Corrected Ave (3 peaks):				250.4 RPD = 11
CalAmt %D:					13.6	CalAmt %D:				1.0
Aroclor-1260	1	11.057	-0.000	75716	258.6	1	11.663	0.000	61099	220.6
Aroclor-1260	2	11.372	-0.000	80413	265.5	2	11.925	0.000	144760	208.3
Aroclor-1260	3	11.746	0.000	210983	265.1	3	12.445	0.000	42780	231.2
Aroclor-1260	4	12.152	0.001	105371	260.0	4	12.509	0.000	103671	223.8
Aroclor-1260	5	12.255	0.000	45811	276.1	NS	---			----
Total Col1Ave (5 peaks):					265.1	Total Col2Ave (4 peaks):				221.0 RPD = 18
Corrected Ave (4 peaks):					262.3	Corrected Ave (3 peaks):				217.6 RPD = 19
CalAmt %D:					6.0	CalAmt %D:				-11.6

Total PCB Area Col1 (5.931 - 13.802) = 2163067 Col1 Total PCB = 0.7 ppm*

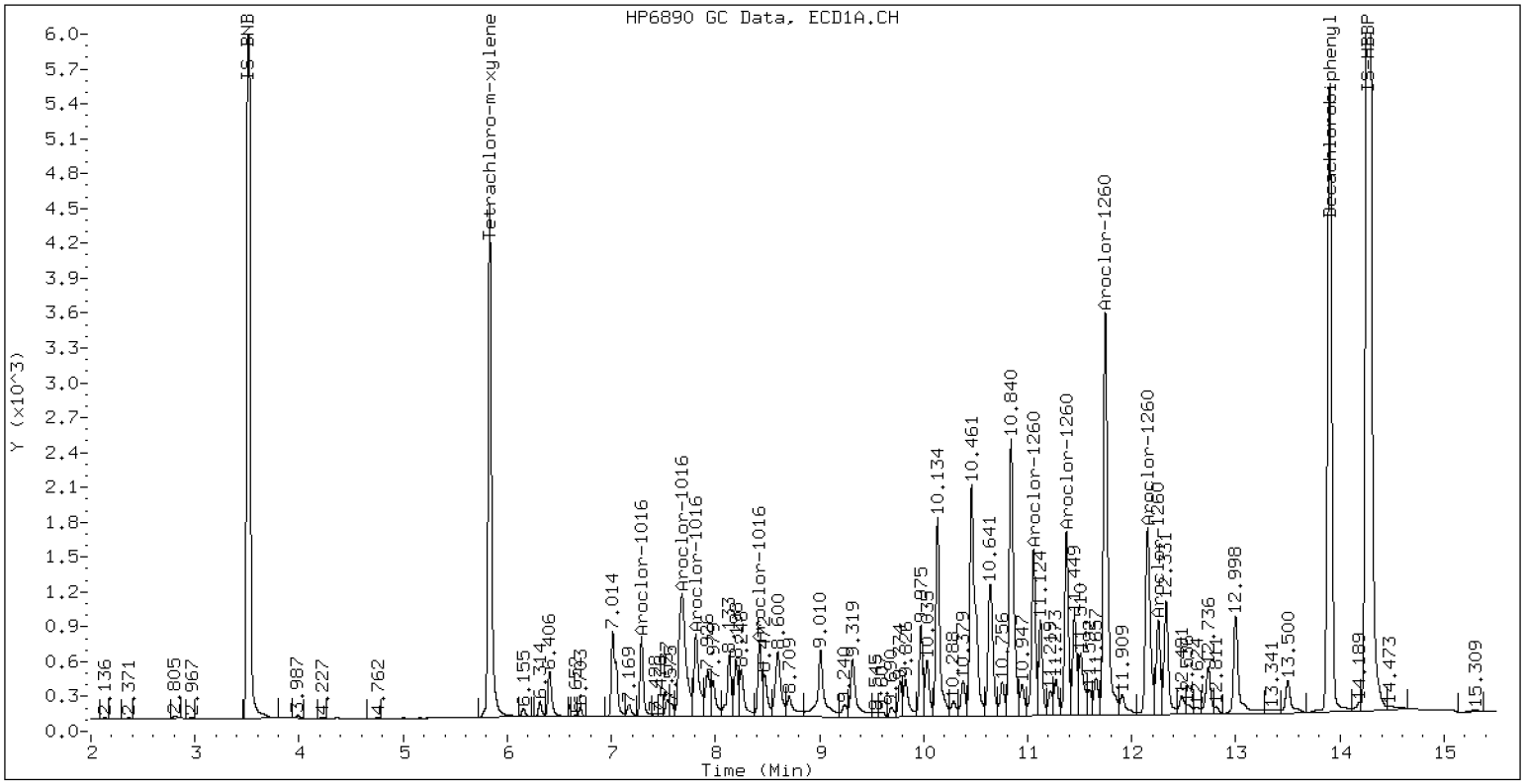
Total PCB Area Col2 (5.808 - 14.027) = 1412531 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

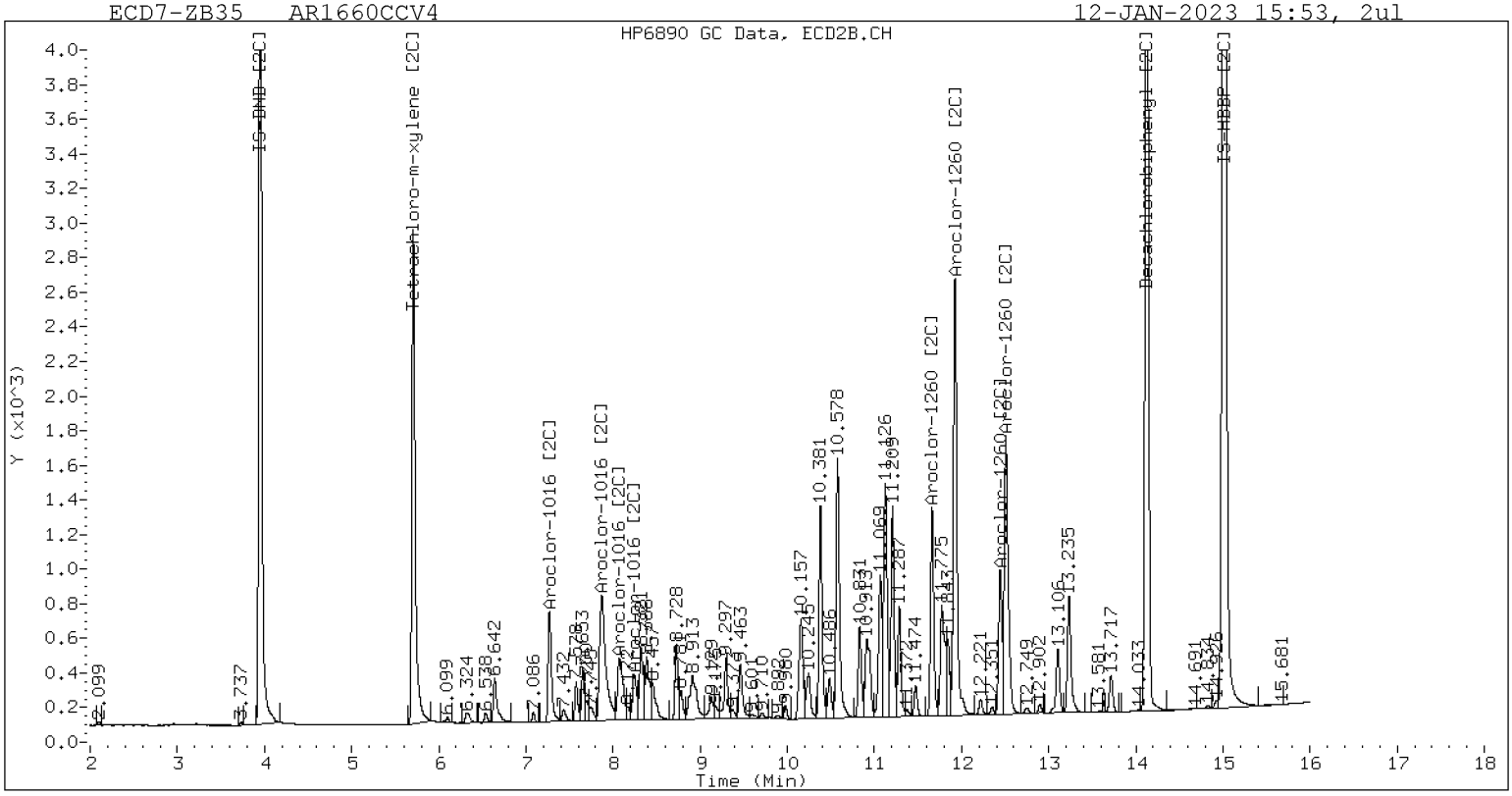
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 12-JAN-2023 15:53, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 12-JAN-2023 15:53, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SKL0048
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Cal Standard	SKL0048-CAL1	12032211ECD7.D	12032211ECD7.D	NA	12/03/22 18:19
Cal Standard	SKL0048-CAL2	12032212ECD7.D	12032212ECD7.D	NA	12/03/22 18:40
Cal Standard	SKL0048-CAL3	12032213ECD7.D	12032213ECD7.D	NA	12/03/22 19:01
Cal Standard	SKL0048-CAL4	12032214ECD7.D	12032214ECD7.D	NA	12/03/22 19:23
Cal Standard	SKL0048-CAL5	12032215ECD7.D	12032215ECD7.D	NA	12/03/22 19:44
Cal Standard	SKL0048-CAL6	12032216ECD7.D	12032216ECD7.D	NA	12/03/22 20:05
Cal Standard	SKL0048-CAL7	12032217ECD7.D	12032217ECD7.D	NA	12/03/22 20:26
Cal Standard	SKL0048-CAL8	12032218ECD7.D	12032218ECD7.D	NA	12/03/22 20:48
Cal Standard	SKL0048-CAL9	12032219ECD7.D	12032219ECD7.D	NA	12/03/22 21:09
Cal Standard	SKL0048-CALA	12032220ECD7.D	12032220ECD7.D	NA	12/03/22 21:30
Cal Standard	SKL0048-CALB	12032221ECD7.D	12032221ECD7.D	NA	12/03/22 21:52
Secondary Cal Check	SKL0048-SCV1	12032222ECD7.D	12032222ECD7.D	NA	12/03/22 22:13
Secondary Cal Check	SKL0048-SCV2	12032223ECD7.D	12032223ECD7.D	NA	12/03/22 22:34
Secondary Cal Check	SKL0048-SCV3	12032224ECD7.D	12032224ECD7.D	NA	12/03/22 22:55
Secondary Cal Check	SKL0048-SCV4	12032225ECD7.D	12032225ECD7.D	NA	12/03/22 23:17
Secondary Cal Check	SKL0048-SCV5	12032226ECD7.D	12032226ECD7.D	NA	12/03/22 23:38
Secondary Cal Check	SKL0048-SCV6	12032227ECD7.D	12032227ECD7.D	NA	12/03/22 23:59

Printed: 12/6/2022 9:25:24AM

ANALYSIS SEQUENCE

SKL0048

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0048-CAL1	0.25PPM AR1660	QC		1	K006954	K006953		
SKL0048-CAL2	0.02PPM AR1660	QC		2	K010070	K006953		
SKL0048-CAL3	0.05PPM AR1660	QC		3	K010069	K006953		
SKL0048-CAL4	1PPM AR1660	QC		4	K006741	K006953		
SKL0048-CAL5	0.1PPM AR1660	QC		5	K010068	K006953		
SKL0048-CAL6	0.5PPM AR1660	QC		6	K010067	K006953		
SKL0048-CAL7	0.25PPM AR1242	QC		7	K006955	K006953		
SKL0048-CAL8	0.25PPM AR1248	QC		8	K006956	K006953		
SKL0048-CAL9	0.25PPM AR1254	QC		9	K006957	K006953		
SKL0048-CALA	0.25PPM AR2162	QC		10	K010071	K006953		
SKL0048-CALB	0.25PPM AR3268	QC		11	K010072	K006953		
SKL0048-SCV1	AR1660SCV1	QC		12	K007655	K006953		
SKL0048-SCV2	AR1242SCV2	QC		13	K007656	K006953		
SKL0048-SCV3	AR1248SCV3	QC		14	K007657	K006953		
SKL0048-SCV4	AR1254SCV4	QC		15	K007658	K006953		
SKL0048-SCV5	AR2162SCV5	QC		16	K007659	K006953		
SKL0048-SCV6	AR3268SCV6	QC		17	K007660	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-DEC-2022 17:58	12032210ECD7.D	1	IB	
2	03-DEC-2022 18:19	12032211ECD7.D	1	0.25PPAR1660	
3	03-DEC-2022 18:40	12032212ECD7.D	1	0.02PPAR1660	
4	03-DEC-2022 19:01	12032213ECD7.D	1	0.05PPAR1660	
5	03-DEC-2022 19:23	12032214ECD7.D	1	1PPMAR1660	
6	03-DEC-2022 19:44	12032215ECD7.D	1	0.1PPMAR1660	
7	03-DEC-2022 20:05	12032216ECD7.D	1	0.5PPMAR1660	
8	03-DEC-2022 20:26	12032217ECD7.D	1	AR1242	
9	03-DEC-2022 20:48	12032218ECD7.D	1	AR1248	
10	03-DEC-2022 21:09	12032219ECD7.D	1	AR1254	
11	03-DEC-2022 21:30	12032220ECD7.D	1	AR2162	
12	03-DEC-2022 21:52	12032221ECD7.D	1	AR3268	
13	03-DEC-2022 22:13	12032222ECD7.D	1	AR1660SCV1	
14	03-DEC-2022 22:34	12032223ECD7.D	1	AR1242SCV2	
15	03-DEC-2022 22:55	12032224ECD7.D	1	AR1248SCV3	
16	03-DEC-2022 23:17	12032225ECD7.D	1	AR1254SCV4	
17	03-DEC-2022 23:38	12032226ECD7.D	1	AR2162SCV5	
18	03-DEC-2022 23:59	12032227ECD7.D	1	AR3268SCV6	
19	04-DEC-2022 00:20	12032228ECD7.D	1	0.1 PPM DDTS	
20	04-DEC-2022 00:42	12032229ECD7.D	1	DDT BD	
21	04-DEC-2022 01:03	12032230ECD7.D	1	AR1254ICV1	
22	04-DEC-2022 01:24	12032231ECD7.D	1	AR1660ICV2	
23	04-DEC-2022 01:46	12032232ECD7.D	1	BKK0834-BLK1	
24	04-DEC-2022 02:07	12032233ECD7.D	1	BKK0834-BS1	
25	04-DEC-2022 02:28	12032234ECD7.D	1	BKK0834-BSD1	
26	04-DEC-2022 02:49	12032235ECD7.D	1	22K0523-01	
27	04-DEC-2022 03:11	12032236ECD7.D	1	22K0525-01	
28	04-DEC-2022 03:32	12032237ECD7.D	1	BKK0374-BLK1	
29	04-DEC-2022 03:53	12032238ECD7.D	1	BKK0374-BS1	
30	04-DEC-2022 04:15	12032239ECD7.D	1	BKK0374-BSD1	
31	04-DEC-2022 04:36	12032240ECD7.D	1	22K0161-01	
32	04-DEC-2022 04:57	12032241ECD7.D	1	AR1248CCV1	
33	04-DEC-2022 05:18	12032242ECD7.D	1	AR1660CCV2	
34	04-DEC-2022 05:40	12032243ECD7.D	1	BKL0017-BLK1	
35	04-DEC-2022 06:01	12032244ECD7.D	1	BKL0017-BS1	
36	04-DEC-2022 06:22	12032245ECD7.D	1	BKL0017-BSD1	
37	04-DEC-2022 06:44	12032246ECD7.D	1	22J0139-01	
38	04-DEC-2022 07:05	12032247ECD7.D	1	BKK0383-BLK1	
39	04-DEC-2022 07:26	12032248ECD7.D	1	BKK0383-BS1	
40	04-DEC-2022 07:47	12032249ECD7.D	1	BKK0383-BSD	
41	04-DEC-2022 08:09	12032250ECD7.D	1	22K0075-01	
42	04-DEC-2022 08:30	12032251ECD7.D	1	BKK00803-BLK1	
43	04-DEC-2022 08:51	12032252ECD7.D	1	BKK00803-BS1	
44	04-DEC-2022 09:13	12032253ECD7.D	1	BKK00803-BSD1	
45	04-DEC-2022 09:34	12032254ECD7.D	1	22K0511-01	
46	04-DEC-2022 09:55	12032255ECD7.D	1	AR1242CCV3	
47	04-DEC-2022 10:17	12032256ECD7.D	1	AR1660CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1758	12032210ECD7.D	IB	1	NO MANUAL INTEGRATION
1819	12032211ECD7.D	0.25PPAR1660	1	NO MANUAL INTEGRATION
1840	12032212ECD7.D	0.02PPAR1660	1	NO MANUAL INTEGRATION
1901	12032213ECD7.D	0.05PPAR1660	1	NO MANUAL INTEGRATION
1923	12032214ECD7.D	1PPMAR1660	1	NO MANUAL INTEGRATION
1944	12032215ECD7.D	0.1PPMAR1660	1	NO MANUAL INTEGRATION
2005	12032216ECD7.D	0.5PPMAR1660	1	NO MANUAL INTEGRATION
2026	12032217ECD7.D	AR1242	1	Aroclor-1242,
2048	12032218ECD7.D	AR1248	1	NO MANUAL INTEGRATION
2109	12032219ECD7.D	AR1254	1	NO MANUAL INTEGRATION
2130	12032220ECD7.D	AR2162	1	NO MANUAL INTEGRATION
2152	12032221ECD7.D	AR3268	1	NO MANUAL INTEGRATION
2213	12032222ECD7.D	AR1660SCV1	1	NO MANUAL INTEGRATION
2234	12032223ECD7.D	AR1242SCV2	1	NO MANUAL INTEGRATION
2255	12032224ECD7.D	AR1248SCV3	1	NO MANUAL INTEGRATION
2317	12032225ECD7.D	AR1254SCV4	1	NO MANUAL INTEGRATION
2338	12032226ECD7.D	AR2162SCV5	1	NO MANUAL INTEGRATION

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2359	12032227ECD7.D	AR3268SCV6	1	NO MANUAL INTEGRATION

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0136
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLA0136-ICV1	01112302ECD7.D	01112302ECD7.D	NA	01/11/23 09:17
Initial Cal Check	SLA0136-ICV2	01112303ECD7.D	01112303ECD7.D	NA	01/11/23 09:38
Blank	BLA0069-BLK1	01112304ECD7.D	01112304ECD7.D	Solid	01/11/23 09:59
LCS	BLA0069-BS1	01112305ECD7.D	01112305ECD7.D	Solid	01/11/23 10:20
LCS Dup	BLA0069-BSD1	01112306ECD7.D	01112306ECD7.D	Solid	01/11/23 10:41
Reference	BLA0069-SRM1	01112307ECD7.D	01112307ECD7.D	Solid	01/11/23 11:02
LDW23-SC1123B	22L0459-01	01112308ECD7.D	01112308ECD7.D	Solid	01/11/23 11:23
LDW23-SC1053C	22L0459-02	01112309ECD7.D	01112309ECD7.D	Solid	01/11/23 11:44
LDW23-SC1039C	22L0459-03	01112310ECD7.D	01112310ECD7.D	Solid	01/11/23 12:05
LDW23-SC1039C	BLA0069-MS1	01112311ECD7.D	01112311ECD7.D	Solid	01/11/23 12:26
LDW23-SC1039C	BLA0069-MSD1	01112312ECD7.D	01112312ECD7.D	Solid	01/11/23 12:47
LDW23-SC1007B	22L0459-04	01112313ECD7.D	01112313ECD7.D	Solid	01/11/23 13:08
LDW23-SC1002C	22L0459-05	01112314ECD7.D	01112314ECD7.D	Solid	01/11/23 13:29
LDW23-SC1091B	22L0459-07	01112316ECD7.D	01112316ECD7.D	Solid	01/11/23 14:12
Calibration Check	SLA0136-CCV1	01112317ECD7.D	01112317ECD7.D	NA	01/11/23 14:33
Calibration Check	SLA0136-CCV2	01112318ECD7.D	01112318ECD7.D	NA	01/11/23 14:54
Calibration Check	SLA0136-CCV3	01112328ECD7.D	01112328ECD7.D	NA	01/11/23 18:24
Calibration Check	SLA0136-CCV4	01112329ECD7.D	01112329ECD7.D	NA	01/11/23 18:46
Calibration Check	SLA0136-CCV5	01112346ECD7.D	01112346ECD7.D	NA	01/12/23 00:43
Calibration Check	SLA0136-CCV6	01112347ECD7.D	01112347ECD7.D	NA	01/12/23 01:04
Calibration Check	SLA0136-CCV7	01112359ECD7.D	01112359ECD7.D	NA	01/12/23 05:17
Calibration Check	SLA0136-CCV8	01112360ECD7.D	01112360ECD7.D	NA	01/12/23 05:38
Calibration Check	SLA0136-CCV9	01112374ECD7.D	01112374ECD7.D	NA	01/12/23 10:33
Calibration Check	SLA0136-CCVA	01112375ECD7.D	01112375ECD7.D	NA	01/12/23 10:54

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0136

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/14/2023 1:58:19PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0136-ICV1	QC		1		K006957	K006953		
SLA0136-ICV2	QC		2		K006954	K006953		
BLA0069-BLK1	QC		3			K006953		
BLA0069-BS1	QC		4			K006953		
BLA0069-BSD1	QC		5			K006953		
BLA0069-SRM1	QC		6			K006953		
22L0459-01	8082A PCB Solid 4	A 03	7			K006953	Anchor QEA, LLC	
22L0459-02	8082A PCB Solid 4	A 03	8			K006953	Anchor QEA, LLC	
22L0459-03	8082A PCB Solid 4	A 03	9			K006953	Anchor QEA, LLC	
BLA0069-MS1	QC		10			K006953		
BLA0069-MSD1	QC		11			K006953		
22L0459-04	8082A PCB Solid 4	A 03	12			K006953	Anchor QEA, LLC	
22L0459-05	8082A PCB Solid 4	A 03	13			K006953	Anchor QEA, LLC	
22L0459-07	8082A PCB Solid 4	A 03	14			K006953	Anchor QEA, LLC	
SLA0136-CCV1	QC		15		K006956	K006953		
SLA0136-CCV2	QC		16		K006954	K006953		
BKL0612-BLK1	QC		17			K006953		
BKL0612-BS1	QC		18			K006953		
BKL0612-BSD1	QC		19			K006953		
22L0416-01	PCB (20 ug/kg) or (MTCA 0.	A 03	20			K006953	Integral Consulting, Inc.	Use this one
BKL0612-MS1	QC		21			K006953		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0136

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/14/2023 1:58:19PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
BKL0612-MSD1	QC		22			K006953		
22L0416-69	PCB (20 ug/kg) or (MTCA 0.	A 03	23			K006953	Integral Consulting, Inc.	Use this one
SLA0136-CCV3	QC		24		K006955	K006953		
SLA0136-CCV4	QC		25		K006954	K006953		
BLA0063-BLK1	QC		26			K006953		
BLA0063-BS1	QC		27			K006953		
BLA0063-BSD1	QC		28			K006953		
BLA0063-SRM1	QC		29			K006953		
22L0383-01	8082A PCB Solid 4	A 04	30			K006953	Anchor QEA, LLC	
22L0383-02	8082A PCB Solid 4	A 04	31			K006953	Anchor QEA, LLC	
22L0383-03	8082A PCB Solid 4	A 04	32			K006953	Anchor QEA, LLC	
BLA0063-MS1	QC		33			K006953		
BLA0063-MSD1	QC		34			K006953		
22L0383-04	8082A PCB Solid 4	A 04	35			K006953	Anchor QEA, LLC	
22L0383-05	8082A PCB Solid 4	A 04	36			K006953	Anchor QEA, LLC	
22L0383-06	8082A PCB Solid 4	A 04	37			K006953	Anchor QEA, LLC	
22L0383-07	8082A PCB Solid 4	A 04	38			K006953	Anchor QEA, LLC	
22L0383-08	8082A PCB Solid 4	A 04	39			K006953	Anchor QEA, LLC	
SLA0136-CCV5	QC		40		K006957	K006953		
SLA0136-CCV6	QC		41		K006954	K006953		
22L0417-03	8082A PCB Solid 4	A 03	42			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0136

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/14/2023 1:58:19PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0417-04	8082A PCB Solid 4	A 03	43			K006953	Anchor QEA, LLC	
22L0417-05	8082A PCB Solid 4	A 03	44			K006953	Anchor QEA, LLC	
22L0417-06	8082A PCB Solid 4	A 03	45			K006953	Anchor QEA, LLC	
22L0417-07	8082A PCB Solid 4	A 03	46			K006953	Anchor QEA, LLC	
22L0417-09	8082A PCB Solid 4	A 03	47			K006953	Anchor QEA, LLC	
BLA0202-BLK1	QC		48			K006953		
BLA0202-BS1	QC		49			K006953		
BLA0202-BSD1	QC		50			K006953		
23A0127-01	8082A PCB	A 01	51			K006953	The Boeing Company [Auburn]	
SLA0136-CCV7	QC		52		K006956	K006953		
SLA0136-CCV8	QC		53		K006954	K006953		
22L0307-30	8082A PCB Solid 4	C 01	54			K006953	Anchor QEA, LLC	
22L0307-37	8082A PCB Solid 4	B 01	55			K006953	Anchor QEA, LLC	
22L0307-62	8082A PCB Solid 4	B 01	56			K006953	Anchor QEA, LLC	
22L0307-64	8082A PCB Solid 4	B 01	57			K006953	Anchor QEA, LLC	
22L0329-28	8082A PCB Solid 4	B 01	58			K006953	Anchor QEA, LLC	
22L0329-31	8082A PCB Solid 4	B 01	59			K006953	Anchor QEA, LLC	
BKL0732-BLK1	QC		60			K006953		
BKL0732-BS1	QC		61			K006953		
BKL0732-BSD1	QC		62			K006953		
22L0642-01	8082A PCB Water 0.01	L 01	63			K006953	Aspect Consulting, LLC.	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0136

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/14/2023 1:58:19PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0642-03	8082A PCB Water 0.01	L 01	64			K006953	Aspect Consulting, LLC.	
22L0642-05	8082A PCB Water 0.01	L 01	65			K006953	Aspect Consulting, LLC.	
22L0642-07	8082A PCB Water 0.01	L 01	66			K006953	Aspect Consulting, LLC.	
SLA0136-CCV9	QC		67		K006955	K006953		
SLA0136-CCVA	QC		68		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230111.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	11-JAN-2023 08:56	01112301ECD7.D	1	DDTS	
2	11-JAN-2023 09:17	01112302ECD7.D	1	AR1254ICV1	
3	11-JAN-2023 09:38	01112303ECD7.D	1	AR1660ICV2	
4	11-JAN-2023 09:59	01112304ECD7.D	1	BLA0069-BLK1	
5	11-JAN-2023 10:20	01112305ECD7.D	1	BLA0069-BS1	
6	11-JAN-2023 10:41	01112306ECD7.D	1	BLA0069-BSD1	
7	11-JAN-2023 11:02	01112307ECD7.D	1	BLA0069-SRM1	
8	11-JAN-2023 11:23	01112308ECD7.D	1	22L0459-01	
9	11-JAN-2023 11:44	01112309ECD7.D	1	22L0459-02	
10	11-JAN-2023 12:05	01112310ECD7.D	1	22L0459-03	
11	11-JAN-2023 12:26	01112311ECD7.D	1	BLA0069-MS1	
12	11-JAN-2023 12:47	01112312ECD7.D	1	BLA0069-MSD1	
13	11-JAN-2023 13:08	01112313ECD7.D	1	22L0459-04	
14	11-JAN-2023 13:29	01112314ECD7.D	1	22L0459-05	
15	11-JAN-2023 13:51	01112315ECD7.D	1	22L0459-06	
16	11-JAN-2023 14:12	01112316ECD7.D	1	22L0459-07	
17	11-JAN-2023 14:33	01112317ECD7.D	1	AR1248CCV1	
18	11-JAN-2023 14:54	01112318ECD7.D	1	AR1660CCV2	
19	11-JAN-2023 15:15	01112319ECD7.D	1	BKL0612-BLK1	
20	11-JAN-2023 15:36	01112320ECD7.D	1	BKL0612-BS1	
21	11-JAN-2023 15:57	01112321ECD7.D	1	BKL0612-BSD1	
22	11-JAN-2023 16:18	01112322ECD7.D	1	22L416-01	
23	11-JAN-2023 16:39	01112323ECD7.D	1	22L416-61	
24	11-JAN-2023 17:00	01112324ECD7.D	1	BKL0612-MS1	
25	11-JAN-2023 17:21	01112325ECD7.D	1	BKL0612-MSD1	
26	11-JAN-2023 17:42	01112326ECD7.D	1	22L416-69	
27	11-JAN-2023 18:03	01112327ECD7.D	1	22L416-82	
28	11-JAN-2023 18:24	01112328ECD7.D	1	AR1242CCV3	
29	11-JAN-2023 18:46	01112329ECD7.D	1	AR1660CCV4	
30	11-JAN-2023 19:07	01112330ECD7.D	1	BLA0063-BLK1	
31	11-JAN-2023 19:28	01112331ECD7.D	1	BLA0063-BS1	
32	11-JAN-2023 19:49	01112332ECD7.D	1	BLA0063-BSD1	
33	11-JAN-2023 20:10	01112333ECD7.D	1	BLA0063-SRM1	
34	11-JAN-2023 20:31	01112334ECD7.D	1	22L0383-01	
35	11-JAN-2023 20:52	01112335ECD7.D	1	22L0383-02	
36	11-JAN-2023 21:13	01112336ECD7.D	1	22L0383-03	
37	11-JAN-2023 21:34	01112337ECD7.D	1	BLA0063-MS1	
38	11-JAN-2023 21:55	01112338ECD7.D	1	BLA0063-MSD1	
39	11-JAN-2023 22:16	01112339ECD7.D	1	22L0383-04	
40	11-JAN-2023 22:37	01112340ECD7.D	1	22L0383-05	
41	11-JAN-2023 22:58	01112341ECD7.D	1	22L0383-06	
42	11-JAN-2023 23:19	01112342ECD7.D	1	22L0383-07	
43	11-JAN-2023 23:40	01112343ECD7.D	1	22L0383-08	
44	12-JAN-2023 00:01	01112344ECD7.D	1	22L0417-01	
45	12-JAN-2023 00:22	01112345ECD7.D	1	22L0417-02	
46	12-JAN-2023 00:43	01112346ECD7.D	1	AR1254CCV5	
47	12-JAN-2023 01:04	01112347ECD7.D	1	AR1660CCV6	
48	12-JAN-2023 01:25	01112348ECD7.D	1	22L0417-03	
49	12-JAN-2023 01:46	01112349ECD7.D	1	22L0417-04	
50	12-JAN-2023 02:08	01112350ECD7.D	1	22L0417-05	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	12-JAN-2023 02:29	01112351ECD7.D	1	22L0417-06	
52	12-JAN-2023 02:50	01112352ECD7.D	1	22L0417-07	
53	12-JAN-2023 03:11	01112353ECD7.D	1	22L0417-08	
54	12-JAN-2023 03:32	01112354ECD7.D	1	22L0417-09	
55	12-JAN-2023 03:53	01112355ECD7.D	1	BLA0202-BLK1	
56	12-JAN-2023 04:14	01112356ECD7.D	1	BLA0202-BS1	
57	12-JAN-2023 04:35	01112357ECD7.D	1	BLA0202-BSD1	
58	12-JAN-2023 04:56	01112358ECD7.D	1	23A0127-01	
59	12-JAN-2023 05:17	01112359ECD7.D	1	AR1248CCV7	
60	12-JAN-2023 05:38	01112360ECD7.D	1	AR1660CCV8	
61	12-JAN-2023 05:59	01112361ECD7.D	5	22L0307-30RE1	
62	12-JAN-2023 06:20	01112362ECD7.D	5	22L0307-37RE1	
63	12-JAN-2023 06:41	01112363ECD7.D	5	22L0307-62RE1	
64	12-JAN-2023 07:02	01112364ECD7.D	5	22L0307-64RE1	
65	12-JAN-2023 07:23	01112365ECD7.D	5	22L0329-28RE1	
66	12-JAN-2023 07:45	01112366ECD7.D	5	22L0329-31RE1	
67	12-JAN-2023 08:06	01112367ECD7.D	1	BKL0732-BLK1	
68	12-JAN-2023 08:27	01112368ECD7.D	1	BKL0732-BS1	
69	12-JAN-2023 08:48	01112369ECD7.D	1	BKL0732-BSD1	
70	12-JAN-2023 09:09	01112370ECD7.D	1	22L0642-01	
71	12-JAN-2023 09:30	01112371ECD7.D	1	22L0642-03	
72	12-JAN-2023 09:51	01112372ECD7.D	1	22L0642-05	
73	12-JAN-2023 10:12	01112373ECD7.D	1	22L0642-07	
74	12-JAN-2023 10:33	01112374ECD7.D	1	AR1242CCV9	
75	12-JAN-2023 10:54	01112375ECD7.D	1	AR1660CCVA	
76	12-JAN-2023 11:15	01112376ECD7.D	1	DCMRINSE	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230111.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 11-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0856	01112301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0917	01112302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
0938	01112303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
0959	01112304ECD7.D	BLA0069-BLK1		1	NO MANUAL INTEGRATION
1020	01112305ECD7.D	BLA0069-BS1		1	NO MANUAL INTEGRATION
1041	01112306ECD7.D	BLA0069-BSD1		1	NO MANUAL INTEGRATION
1102	01112307ECD7.D	BLA0069-SRM1		1	NO MANUAL INTEGRATION
1123	01112308ECD7.D	22L0459-01		1	Aroclor-1254,
1144	01112309ECD7.D	22L0459-02		1	Aroclor-1254,
1205	01112310ECD7.D	22L0459-03		1	Aroclor-1254,
1226	01112311ECD7.D	BLA0069-MS1		1	Aroclor-1254,
1247	01112312ECD7.D	BLA0069-MSD1		1	Aroclor-1254,
1308	01112313ECD7.D	22L0459-04		1	Aroclor-1254,
1329	01112314ECD7.D	22L0459-05		1	Aroclor-1254,
1351	01112315ECD7.D	22L0459-06		1	NO MANUAL INTEGRATION
1412	01112316ECD7.D	22L0459-07		1	Aroclor-1254,
1433	01112317ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230111.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1454	01112318ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1515	01112319ECD7.D	BKL0612-BLK1		1	NO MANUAL INTEGRATION
1536	01112320ECD7.D	BKL0612-BS1		1	NO MANUAL INTEGRATION
1557	01112321ECD7.D	BKL0612-BSD1		1	NO MANUAL INTEGRATION
1618	01112322ECD7.D	22L416-01		1	NO MANUAL INTEGRATION
1639	01112323ECD7.D	22L416-61		1	NO MANUAL INTEGRATION
1700	01112324ECD7.D	BKL0612-MS1		1	NO MANUAL INTEGRATION
1721	01112325ECD7.D	BKL0612-MSD1		1	NO MANUAL INTEGRATION
1742	01112326ECD7.D	22L416-69		1	NO MANUAL INTEGRATION
1803	01112327ECD7.D	22L416-82		1	NO MANUAL INTEGRATION
1824	01112328ECD7.D	AR1242CCV3		1	Aroclor-1242,
1846	01112329ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1907	01112330ECD7.D	BLA0063-BLK1		1	NO MANUAL INTEGRATION
1928	01112331ECD7.D	BLA0063-BS1		1	NO MANUAL INTEGRATION
1949	01112332ECD7.D	BLA0063-BSD1		1	NO MANUAL INTEGRATION
2010	01112333ECD7.D	BLA0063-SRM1		1	NO MANUAL INTEGRATION
2031	01112334ECD7.D	22L0383-01		1	Aroclor-1248, Aroclor-1254,
2052	01112335ECD7.D	22L0383-02		1	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230111.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2113	01112336ECD7.D	22L0383-03		1	Aroclor-1254,
2134	01112337ECD7.D	BLA0063-MS1		1	NO MANUAL INTEGRATION
2155	01112338ECD7.D	BLA0063-MSD1		1	NO MANUAL INTEGRATION
2216	01112339ECD7.D	22L0383-04		1	Aroclor-1254,
2237	01112340ECD7.D	22L0383-05		1	Aroclor-1254,
2258	01112341ECD7.D	22L0383-06		1	Aroclor-1254,
2319	01112342ECD7.D	22L0383-07		1	Aroclor-1254,
2340	01112343ECD7.D	22L0383-08		1	Aroclor-1254,
0001	01112344ECD7.D	22L0417-01		1	NO MANUAL INTEGRATION
0022	01112345ECD7.D	22L0417-02		1	NO MANUAL INTEGRATION
0043	01112346ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0104	01112347ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0125	01112348ECD7.D	22L0417-03		1	Aroclor-1254,
0146	01112349ECD7.D	22L0417-04		1	Aroclor-1254,
0208	01112350ECD7.D	22L0417-05		1	Aroclor-1254,
0229	01112351ECD7.D	22L0417-06		1	Aroclor-1254,
0250	01112352ECD7.D	22L0417-07		1	Aroclor-1254,
0311	01112353ECD7.D	22L0417-08		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230111.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0332	01112354ECD7.D	22L0417-09		1	Aroclor-1254,
0353	01112355ECD7.D	BLA0202-BLK1		1	NO MANUAL INTEGRATION
0414	01112356ECD7.D	BLA0202-BS1		1	NO MANUAL INTEGRATION
0435	01112357ECD7.D	BLA0202-BSD1		1	NO MANUAL INTEGRATION
0456	01112358ECD7.D	23A0127-01		1	NO MANUAL INTEGRATION
0517	01112359ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0538	01112360ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0559	01112361ECD7.D	22L0307-30RE1		5	Aroclor-1248,
0620	01112362ECD7.D	22L0307-37RE1		5	Aroclor-1254,
0641	01112363ECD7.D	22L0307-62RE1		5	NO MANUAL INTEGRATION
0702	01112364ECD7.D	22L0307-64RE1		5	NO MANUAL INTEGRATION
0723	01112365ECD7.D	22L0329-28RE1		5	NO MANUAL INTEGRATION
0745	01112366ECD7.D	22L0329-31RE1		5	NO MANUAL INTEGRATION
0806	01112367ECD7.D	BKL0732-BLK1		1	NO MANUAL INTEGRATION
0827	01112368ECD7.D	BKL0732-BS1		1	NO MANUAL INTEGRATION
0848	01112369ECD7.D	BKL0732-BSD1		1	NO MANUAL INTEGRATION
0909	01112370ECD7.D	22L0642-01		1	NO MANUAL INTEGRATION
0930	01112371ECD7.D	22L0642-03		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230111.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0951	01112372ECD7.D	22L0642-05		1	NO MANUAL INTEGRATION
1012	01112373ECD7.D	22L0642-07		1	NO MANUAL INTEGRATION
1033	01112374ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
1054	01112375ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
1115	01112376ECD7.D	DCMRINSE		1	NO MANUAL INTEGRATION
0856	01112301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0917	01112302ECD7.D	AR1254ICV1		1	Aroclor-1254 [2C],
0938	01112303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
0959	01112304ECD7.D	BLA0069-BLK1		1	NO MANUAL INTEGRATION
1020	01112305ECD7.D	BLA0069-BS1		1	NO MANUAL INTEGRATION
1041	01112306ECD7.D	BLA0069-BSD1		1	NO MANUAL INTEGRATION
1102	01112307ECD7.D	BLA0069-SRM1		1	NO MANUAL INTEGRATION
1123	01112308ECD7.D	22L0459-01		1	Aroclor-1248 [2C],
1144	01112309ECD7.D	22L0459-02		1	Aroclor-1248 [2C],
1205	01112310ECD7.D	22L0459-03		1	Aroclor-1248 [2C],
1226	01112311ECD7.D	BLA0069-MS1		1	Aroclor-1248 [2C],
1247	01112312ECD7.D	BLA0069-MSD1		1	Aroclor-1248 [2C],
1308	01112313ECD7.D	22L0459-04		1	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230111.b\230111.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1329	01112314ECD7.D	22L0459-05		1	Aroclor-1248 [2C],
1351	01112315ECD7.D	22L0459-06		1	NO MANUAL INTEGRATION
1412	01112316ECD7.D	22L0459-07		1	Aroclor-1248 [2C],
1433	01112317ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1454	01112318ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1515	01112319ECD7.D	BKL0612-BLK1		1	NO MANUAL INTEGRATION
1536	01112320ECD7.D	BKL0612-BS1		1	NO MANUAL INTEGRATION
1557	01112321ECD7.D	BKL0612-BSD1		1	NO MANUAL INTEGRATION
1618	01112322ECD7.D	22L416-01		1	NO MANUAL INTEGRATION
1639	01112323ECD7.D	22L416-61		1	NO MANUAL INTEGRATION
1700	01112324ECD7.D	BKL0612-MS1		1	NO MANUAL INTEGRATION
1721	01112325ECD7.D	BKL0612-MSD1		1	NO MANUAL INTEGRATION
1742	01112326ECD7.D	22L416-69		1	NO MANUAL INTEGRATION
1803	01112327ECD7.D	22L416-82		1	NO MANUAL INTEGRATION
1824	01112328ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
1846	01112329ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1907	01112330ECD7.D	BLA0063-BLK1		1	NO MANUAL INTEGRATION
1928	01112331ECD7.D	BLA0063-BS1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230111.b\230111.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1949	01112332ECD7.D	BLA0063-BSD1		1	NO MANUAL INTEGRATION
2010	01112333ECD7.D	BLA0063-SRM1		1	NO MANUAL INTEGRATION
2031	01112334ECD7.D	22L0383-01		1	Aroclor-1248 [2C],
2052	01112335ECD7.D	22L0383-02		1	Aroclor-1248 [2C],
2113	01112336ECD7.D	22L0383-03		1	Aroclor-1248 [2C],
2134	01112337ECD7.D	BLA0063-MS1		1	NO MANUAL INTEGRATION
2155	01112338ECD7.D	BLA0063-MSD1		1	NO MANUAL INTEGRATION
2216	01112339ECD7.D	22L0383-04		1	NO MANUAL INTEGRATION
2237	01112340ECD7.D	22L0383-05		1	Aroclor-1248 [2C],
2258	01112341ECD7.D	22L0383-06		1	Aroclor-1248 [2C],
2319	01112342ECD7.D	22L0383-07		1	Aroclor-1248 [2C],
2340	01112343ECD7.D	22L0383-08		1	Aroclor-1248 [2C],
0001	01112344ECD7.D	22L0417-01		1	NO MANUAL INTEGRATION
0022	01112345ECD7.D	22L0417-02		1	NO MANUAL INTEGRATION
0043	01112346ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0104	01112347ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0125	01112348ECD7.D	22L0417-03		1	Aroclor-1248 [2C],
0146	01112349ECD7.D	22L0417-04		1	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230111.b\230111.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0208	01112350ECD7.D	22L0417-05		1	Aroclor-1248 [2C],
0229	01112351ECD7.D	22L0417-06		1	Aroclor-1248 [2C],
0250	01112352ECD7.D	22L0417-07		1	Aroclor-1248 [2C],
0311	01112353ECD7.D	22L0417-08		1	NO MANUAL INTEGRATION
0332	01112354ECD7.D	22L0417-09		1	Aroclor-1248 [2C],
0353	01112355ECD7.D	BLA0202-BLK1		1	NO MANUAL INTEGRATION
0414	01112356ECD7.D	BLA0202-BS1		1	NO MANUAL INTEGRATION
0435	01112357ECD7.D	BLA0202-BSD1		1	NO MANUAL INTEGRATION
0456	01112358ECD7.D	23A0127-01		1	NO MANUAL INTEGRATION
0517	01112359ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0538	01112360ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0559	01112361ECD7.D	22L0307-30RE1		5	Aroclor-1248 [2C],
0620	01112362ECD7.D	22L0307-37RE1		5	Aroclor-1248 [2C],
0641	01112363ECD7.D	22L0307-62RE1		5	Aroclor-1248 [2C],
0702	01112364ECD7.D	22L0307-64RE1		5	Aroclor-1248 [2C],
0723	01112365ECD7.D	22L0329-28RE1		5	Aroclor-1248 [2C],
0745	01112366ECD7.D	22L0329-31RE1		5	Aroclor-1248 [2C],
0806	01112367ECD7.D	BKL0732-BLK1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230111.b\230111.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0827	01112368ECD7.D	BKL0732-BS1		1	NO MANUAL INTEGRATION
0848	01112369ECD7.D	BKL0732-BSD1		1	NO MANUAL INTEGRATION
0909	01112370ECD7.D	22L0642-01		1	NO MANUAL INTEGRATION
0930	01112371ECD7.D	22L0642-03		1	NO MANUAL INTEGRATION
0951	01112372ECD7.D	22L0642-05		1	NO MANUAL INTEGRATION
1012	01112373ECD7.D	22L0642-07		1	NO MANUAL INTEGRATION
1033	01112374ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
1054	01112375ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
1115	01112376ECD7.D	DCMRINSE		1	NO MANUAL INTEGRATION

Security Status Report

Date: 14-Jan-2023 14:00

01112301ECD7.D	Data Locked	richardl, 14-Jan-2023 10:39
01112302ECD7.D	Data Locked	richardl, 14-Jan-2023 10:39
01112303ECD7.D	Data Locked	richardl, 14-Jan-2023 10:39
01112304ECD7.D	Data Locked	richardl, 14-Jan-2023 10:39
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Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0139	Instrument:	ECD7
		Calibration:	FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
LDW23-SC1070B	22L0459-06	01122311ECD7.D	01122311ECD7.D	Solid	01/12/23 15:11
Calibration Check	SLA0139-CCV3	01122312ECD7.D	01122312ECD7.D	NA	01/12/23 15:32
Calibration Check	SLA0139-CCV4	01122313ECD7.D	01122313ECD7.D	NA	01/12/23 15:53

Printed: 1/15/2023 7:17:45AM

ANALYSIS SEQUENCE

SLA0139

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SLA0139-ICV1	AR1254ICV1	QC		1	K006957	K006953		
SLA0139-ICV2	AR1660ICV2	QC		2	K006954	K006953		
22L0416-61	GTF-SL150	2A PCB (20 ug/kg) or (MTCA 0.1 u	A 03	3		K006953		Use this one
22L0416-82	GTF-SL169	2A PCB (20 ug/kg) or (MTCA 0.1 u	A 03	4		K006953		Use this one
SLA0139-CCV1	AR1248CCV1	QC		5	K006956	K006953		
SLA0139-CCV2	AR1660CCV2	QC		6	K006954	K006953		
22L0417-01	LDW23-SC1064C	8082A PCB Solid 4	A 04	7		K006953		
22L0417-02	LDW23-SC1065C	8082A PCB Solid 4	A 04	8		K006953		
22L0417-08	LDW23-SC1130B	8082A PCB Solid 4	A 03	9		K006953		
22L0459-06	LDW23-SC1070B	8082A PCB Solid 4	A 03	10		K006953		
SLA0139-CCV3	AR1242CCV3	QC		11	K006955	K006953		
SLA0139-CCV4	AR1660CCV4	QC		12	K006954	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230112.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	12-JAN-2023 11:41	01122301ECD7.D	1	DDTS	
2	12-JAN-2023 12:02	01122302ECD7.D	1	AR1254ICV1	
3	12-JAN-2023 12:23	01122303ECD7.D	1	AR1660ICV2	
4	12-JAN-2023 12:44	01122304ECD7.D	1	22L0416-61	
5	12-JAN-2023 13:05	01122305ECD7.D	1	22L0416-82	
6	12-JAN-2023 13:26	01122306ECD7.D	1	AR1248CCV1	
7	12-JAN-2023 13:47	01122307ECD7.D	1	AR1660CCV2	
8	12-JAN-2023 14:08	01122308ECD7.D	5	22L0417-01	
9	12-JAN-2023 14:29	01122309ECD7.D	5	22L0417-02	
10	12-JAN-2023 14:50	01122310ECD7.D	5	22L0417-08	
11	12-JAN-2023 15:11	01122311ECD7.D	10	22L0459-61	
12	12-JAN-2023 15:32	01122312ECD7.D	1	AR1242CCV3	
13	12-JAN-2023 15:53	01122313ECD7.D	1	AR1660CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230112.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 12-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1141	01122301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1202	01122302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1223	01122303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1244	01122304ECD7.D	22L0416-61		1	Aroclor-1260,
1305	01122305ECD7.D	22L0416-82		1	NO MANUAL INTEGRATION
1326	01122306ECD7.D	AR1248CCV1		1	Aroclor-1248,
1347	01122307ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1408	01122308ECD7.D	22L0417-01		5	NO MANUAL INTEGRATION
1429	01122309ECD7.D	22L0417-02		5	NO MANUAL INTEGRATION
1450	01122310ECD7.D	22L0417-08		5	NO MANUAL INTEGRATION
1511	01122311ECD7.D	22L0459-61		10	NO MANUAL INTEGRATION
1532	01122312ECD7.D	AR1242CCV3		1	Aroclor-1242,
1553	01122313ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION

Security Status Report

Date: 15-Jan-2023 07:21

01122301ECD7.D	Data Locked	yev, 15-
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01122307ECD7.D	Data Locked	yev, 15-
01122308ECD7.D	Data Locked	yev, 15-
01122309ECD7.D	Data Locked	yev, 15-
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01122311ECD7.D	Data Locked	yev, 15-
01122312ECD7.D	Data Locked	yev, 15-
01122313ECD7.D	Data Locked	yev, 15-

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SKL0048	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0048-SCV1 (Water)			Lab File ID: 12032222ECD7.D			Analyzed: 12/03/22 22:13		
Decachlorobiphenyl	40.000	99.5	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	90.3	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.4	80 - 120	14.137	14.13533	0.0017	N/A	
Tetrachlorometaxylene [2C]	40.000	90.2	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV2 (Water)			Lab File ID: 12032223ECD7.D			Analyzed: 12/03/22 22:34		
Decachlorobiphenyl	40.000	97.9	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	88.9	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	95.0	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	89.5	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0048-SCV3 (Water)			Lab File ID: 12032224ECD7.D			Analyzed: 12/03/22 22:55		
Decachlorobiphenyl	40.000	98.3	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	86.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.2	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	87.7	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0048-SCV4 (Water)			Lab File ID: 12032225ECD7.D			Analyzed: 12/03/22 23:17		
Decachlorobiphenyl	40.000	98.9	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	88.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.2	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	90.0	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV5 (Water)			Lab File ID: 12032226ECD7.D			Analyzed: 12/03/22 23:38		
Decachlorobiphenyl	40.000	100	80 - 120	13.907	13.90667	0.0003	N/A	
Tetrachlorometaxylene	40.000	90.2	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	96.1	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	89.2	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV6 (Water)			Lab File ID: 12032227ECD7.D			Analyzed: 12/03/22 23:59		
Decachlorobiphenyl	40.000	140	80 - 120	13.906	13.90667	-0.0007	N/A	
Tetrachlorometaxylene	40.000	86.2	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	137	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	85.6	80 - 120	5.711	5.712333	-0.0013	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0136
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0136-ICV1 (Solid)				Lab File ID: 01112302ECD7.D			Analyzed: 01/11/23 09:17	
Decachlorobiphenyl	40.000	107	80 - 120	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	40.000	92.8	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	91.3	80 - 120	5.706	5.712333	-0.0063	N/A	
SLA0136-ICV2 (Solid)				Lab File ID: 01112303ECD7.D			Analyzed: 01/11/23 09:38	
Decachlorobiphenyl	40.000	107	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	104	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	102	80 - 120	5.707	5.712333	-0.0053	N/A	
BLA0069-BLK1 (Solid)				Lab File ID: 01112304ECD7.D			Analyzed: 01/11/23 09:59	
Decachlorobiphenyl	8.0000	91.9	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	71.8	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	8.0000	90.0	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	8.0000	69.0	44 - 120	5.708	5.712333	-0.0043	N/A	
BLA0069-BS1 (Solid)				Lab File ID: 01112305ECD7.D			Analyzed: 01/11/23 10:20	
Decachlorobiphenyl	8.0000	99.6	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	79.7	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	8.0000	97.5	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	75.3	44 - 120	5.707	5.712333	-0.0053	N/A	
BLA0069-BSD1 (Solid)				Lab File ID: 01112306ECD7.D			Analyzed: 01/11/23 10:41	
Decachlorobiphenyl	8.0000	96.3	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	80.6	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	8.0000	95.4	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	74.8	44 - 120	5.707	5.712333	-0.0053	N/A	
BLA0069-SRM1 (Solid)				Lab File ID: 01112307ECD7.D			Analyzed: 01/11/23 11:02	
Decachlorobiphenyl	40.000	93.5	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	40.000	75.8	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	40.000	84.1	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	40.000	74.9	44 - 120	5.705	5.712333	-0.0073	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0136
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0459-01 (Solid)			Lab File ID: 01112308ECD7.D			Analyzed: 01/11/23 11:23		
Decachlorobiphenyl	7.9997	96.6	40 - 126	13.893	13.90667	-0.0137	N/A	
Tetrachlorometaxylene	7.9997	61.7	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9997	88.8	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9997	68.2	44 - 120	5.7	5.712333	-0.0123	N/A	
22L0459-02 (Solid)			Lab File ID: 01112309ECD7.D			Analyzed: 01/11/23 11:44		
Decachlorobiphenyl	7.9830	88.3	40 - 126	13.893	13.90667	-0.0137	N/A	
Tetrachlorometaxylene	7.9830	60.4	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9830	81.1	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9830	66.9	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0459-03 (Solid)			Lab File ID: 01112310ECD7.D			Analyzed: 01/11/23 12:05		
Decachlorobiphenyl	7.9997	98.4	40 - 126	13.893	13.90667	-0.0137	N/A	
Tetrachlorometaxylene	7.9997	58.2	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9997	90.9	40 - 126	14.12	14.13533	-0.0153	N/A	
Tetrachlorometaxylene [2C]	7.9997	67.5	44 - 120	5.7	5.712333	-0.0123	N/A	
BLA0069-MS1 (Solid)			Lab File ID: 01112311ECD7.D			Analyzed: 01/11/23 12:26		
Decachlorobiphenyl	7.9997	104	40 - 126	13.893	13.90667	-0.0137	N/A	
Tetrachlorometaxylene	7.9997	59.5	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9997	96.0	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9997	71.6	44 - 120	5.7	5.712333	-0.0123	N/A	
BLA0069-MSD1 (Solid)			Lab File ID: 01112312ECD7.D			Analyzed: 01/11/23 12:47		
Decachlorobiphenyl	7.9997	96.2	40 - 126	13.893	13.90667	-0.0137	N/A	
Tetrachlorometaxylene	7.9997	55.6	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9997	90.4	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9997	64.5	44 - 120	5.7	5.712333	-0.0123	N/A	
22L0459-04 (Solid)			Lab File ID: 01112313ECD7.D			Analyzed: 01/11/23 13:08		
Decachlorobiphenyl	7.9974	92.8	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9974	63.0	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9974	86.3	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9974	70.6	44 - 120	5.702	5.712333	-0.0103	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0136
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0459-05 (Solid)			Lab File ID: 01112314ECD7.D			Analyzed: 01/11/23 13:29		
Decachlorobiphenyl	7.9923	57.0	40 - 126	13.893	13.90667	-0.0137	N/A	
Tetrachlorometaxylene	7.9923	35.6	44 - 120	5.826	5.835333	-0.0093	N/A	*
Decachlorobiphenyl [2C]	7.9923	52.4	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9923	39.9	44 - 120	5.702	5.712333	-0.0103	N/A	*
22L0459-07 (Solid)			Lab File ID: 01112316ECD7.D			Analyzed: 01/11/23 14:12		
Decachlorobiphenyl	7.9798	99.0	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9798	68.0	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9798	91.4	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9798	75.6	44 - 120	5.702	5.712333	-0.0103	N/A	
SLA0136-CCV1 (Solid)			Lab File ID: 01112317ECD7.D			Analyzed: 01/11/23 14:33		
Decachlorobiphenyl	40.000	105	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	91.3	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	90.5	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0136-CCV2 (Solid)			Lab File ID: 01112318ECD7.D			Analyzed: 01/11/23 14:54		
Decachlorobiphenyl	40.000	109	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	105	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	99.5	80 - 120	5.706	5.712333	-0.0063	N/A	
SLA0136-CCV3 (Solid)			Lab File ID: 01112328ECD7.D			Analyzed: 01/11/23 18:24		
Decachlorobiphenyl	40.000	102	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	96.5	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	100	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	92.8	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0136-CCV4 (Solid)			Lab File ID: 01112329ECD7.D			Analyzed: 01/11/23 18:46		
Decachlorobiphenyl	40.000	108	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	105	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.706	5.712333	-0.0063	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0136	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0136-CCV5 (Solid)			Lab File ID: 01112346ECD7.D			Analyzed: 01/12/23 00:43		
Decachlorobiphenyl	40.000	104	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	92.5	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	106	80 - 120	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	40.000	92.0	80 - 120	5.706	5.712333	-0.0063	N/A	
SLA0136-CCV6 (Solid)			Lab File ID: 01112347ECD7.D			Analyzed: 01/12/23 01:04		
Decachlorobiphenyl	40.000	111	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	106	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	104	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0136-CCV7 (Solid)			Lab File ID: 01112359ECD7.D			Analyzed: 01/12/23 05:17		
Decachlorobiphenyl	40.000	104	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	93.3	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	94.3	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0136-CCV8 (Solid)			Lab File ID: 01112360ECD7.D			Analyzed: 01/12/23 05:38		
Decachlorobiphenyl	40.000	108	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	105	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.706	5.712333	-0.0063	N/A	
SLA0136-CCV9 (Solid)			Lab File ID: 01112374ECD7.D			Analyzed: 01/12/23 10:33		
Decachlorobiphenyl	40.000	99.0	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	97.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	99.3	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	95.5	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0136-CCVA (Solid)			Lab File ID: 01112375ECD7.D			Analyzed: 01/12/23 10:54		
Decachlorobiphenyl	40.000	106	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	104	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	100	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.707	5.712333	-0.0053	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0139
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0459-06 (Solid)			Lab File ID: 01122311ECD7.D			Analyzed: 01/12/23 15:11		
Decachlorobiphenyl	7.9843	95.7	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9843	75.9	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9843	79.1	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9843	76.9	44 - 120	5.704	5.712333	-0.0083	N/A	
SLA0139-CCV3 (Solid)			Lab File ID: 01122312ECD7.D			Analyzed: 01/12/23 15:32		
Decachlorobiphenyl	40.000	99.8	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	99.3	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	99.5	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	95.3	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0139-CCV4 (Solid)			Lab File ID: 01122313ECD7.D			Analyzed: 01/12/23 15:53		
Decachlorobiphenyl	40.000	108	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	107	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	100	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	104	80 - 120	5.707	5.712333	-0.0053	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SKL0048	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SKL0048-SCV1)		(Water)	Lab File ID: 12032222ECD7.D				Analyzed: 12/03/22 22:13		
1-Bromo-2-Nitrobenzene	483506	3.518	457669	3.516	106	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	892033	14.281	837264	14.278	107	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270882	3.956	254712	3.955	106	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	432562	15.023	387892	15.021	112	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV2)		(Water)	Lab File ID: 12032223ECD7.D				Analyzed: 12/03/22 22:34		
1-Bromo-2-Nitrobenzene	480791	3.515	457669	3.516	105	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	896515	14.281	837264	14.278	107	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270117	3.955	254712	3.955	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	422729	15.023	387892	15.021	109	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV3)		(Water)	Lab File ID: 12032224ECD7.D				Analyzed: 12/03/22 22:55		
1-Bromo-2-Nitrobenzene	484977	3.515	457669	3.516	106	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	915518	14.281	837264	14.278	109	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	272055	3.955	254712	3.955	107	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	426674	15.023	387892	15.021	110	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV4)		(Water)	Lab File ID: 12032225ECD7.D				Analyzed: 12/03/22 23:17		
1-Bromo-2-Nitrobenzene	484642	3.516	457669	3.516	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	917405	14.28	837264	14.278	110	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270782	3.955	254712	3.955	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	431238	15.024	387892	15.021	111	50 - 200	0.003	+/-0.50	
Secondary Cal Check (SKL0048-SCV5)		(Water)	Lab File ID: 12032226ECD7.D				Analyzed: 12/03/22 23:38		
1-Bromo-2-Nitrobenzene	482097	3.517	457669	3.516	105	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	913775	14.28	837264	14.278	109	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	268757	3.956	254712	3.955	106	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	434790	15.024	387892	15.021	112	50 - 200	0.003	+/-0.50	
Secondary Cal Check (SKL0048-SCV6)		(Water)	Lab File ID: 12032227ECD7.D				Analyzed: 12/03/22 23:59		
1-Bromo-2-Nitrobenzene	483276	3.514	457669	3.516	106	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	920878	14.281	837264	14.278	110	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270175	3.953	254712	3.955	106	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	435731	15.023	387892	15.021	112	50 - 200	0.002	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0136
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0136-ICV1)		(Solid)	Lab File ID: 01112302ECD7.D				Analyzed: 01/11/23 09:17		
1-Bromo-2-Nitrobenzene	385664	3.513	355800	3.514	108	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	870797	14.278	837219	14.276	104	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	309423	3.949	284672	3.952	109	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl [2C]	593050	15.016	544579	15.015	109	50 - 200	0.001	+/-0.50	
Initial Cal Check (SLA0136-ICV2)		(Solid)	Lab File ID: 01112303ECD7.D				Analyzed: 01/11/23 09:38		
1-Bromo-2-Nitrobenzene	355800	3.514	355800	3.514	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	837219	14.276	837219	14.276	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	284672	3.952	284672	3.952	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	544579	15.015	544579	15.015	100	50 - 200	0.000	+/-0.50	
Blank (BLA0069-BLK1)		(Solid)	Lab File ID: 01112304ECD7.D				Analyzed: 01/11/23 09:59		
1-Bromo-2-Nitrobenzene	391298	3.515	355800	3.514	110	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	871759	14.274	837219	14.276	104	50 - 200	-0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	313924	3.952	284672	3.952	110	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	589959	15.014	544579	15.015	108	50 - 200	-0.001	+/-0.50	
LCS (BLA0069-BS1)		(Solid)	Lab File ID: 01112305ECD7.D				Analyzed: 01/11/23 10:20		
1-Bromo-2-Nitrobenzene	407001	3.513	355800	3.514	114	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	921581	14.273	837219	14.276	110	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	326863	3.95	284672	3.952	115	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	615929	15.013	544579	15.015	113	50 - 200	-0.002	+/-0.50	
LCS Dup (BLA0069-BSD1)		(Solid)	Lab File ID: 01112306ECD7.D				Analyzed: 01/11/23 10:41		
1-Bromo-2-Nitrobenzene	401271	3.514	355800	3.514	113	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	937110	14.273	837219	14.276	112	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	321703	3.951	284672	3.952	113	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	613869	15.013	544579	15.015	113	50 - 200	-0.002	+/-0.50	
Reference (BLA0069-SRM1)		(Solid)	Lab File ID: 01112307ECD7.D				Analyzed: 01/11/23 11:02		
1-Bromo-2-Nitrobenzene	409908	3.514	355800	3.514	115	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	700787	14.264	837219	14.276	84	50 - 200	-0.012	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	316623	3.951	284672	3.952	111	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	527740	15.009	544579	15.015	97	50 - 200	-0.006	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0136
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SC1123B (22L0459-01)		(Solid)	Lab File ID: 01112308ECD7.D				Analyzed: 01/11/23 11:23		
1-Bromo-2-Nitrobenzene	384154	3.513	355800	3.514	108	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	377823	14.257	837219	14.276	45	50 - 200	-0.019	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	279041	3.95	284672	3.952	98	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	327497	15.005	544579	15.015	60	50 - 200	-0.010	+/-0.50	
LDW23-SC1053C (22L0459-02)		(Solid)	Lab File ID: 01112309ECD7.D				Analyzed: 01/11/23 11:44		
1-Bromo-2-Nitrobenzene	389830	3.513	355800	3.514	110	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	413106	14.258	837219	14.276	49	50 - 200	-0.018	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	289694	3.95	284672	3.952	102	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	352918	15.005	544579	15.015	65	50 - 200	-0.010	+/-0.50	
LDW23-SC1039C (22L0459-03)		(Solid)	Lab File ID: 01112310ECD7.D				Analyzed: 01/11/23 12:05		
1-Bromo-2-Nitrobenzene	389672	3.513	355800	3.514	110	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	366773	14.256	837219	14.276	44	50 - 200	-0.020	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	278770	3.949	284672	3.952	98	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl [2C]	320967	15.004	544579	15.015	59	50 - 200	-0.011	+/-0.50	
Matrix Spike (BLA0069-MS1)		(Solid)	Lab File ID: 01112311ECD7.D				Analyzed: 01/11/23 12:26		
1-Bromo-2-Nitrobenzene	407343	3.512	355800	3.514	114	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	360566	14.258	837219	14.276	43	50 - 200	-0.018	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	279153	3.949	284672	3.952	98	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl [2C]	321352	15.005	544579	15.015	59	50 - 200	-0.010	+/-0.50	
Matrix Spike Dup (BLA0069-MSD1)		(Solid)	Lab File ID: 01112312ECD7.D				Analyzed: 01/11/23 12:47		
1-Bromo-2-Nitrobenzene	383338	3.514	355800	3.514	108	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	339684	14.257	837219	14.276	41	50 - 200	-0.019	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	270867	3.95	284672	3.952	95	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	299055	15.005	544579	15.015	55	50 - 200	-0.010	+/-0.50	
LDW23-SC1007B (22L0459-04)		(Solid)	Lab File ID: 01112313ECD7.D				Analyzed: 01/11/23 13:08		
1-Bromo-2-Nitrobenzene	398402	3.514	355800	3.514	112	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	406199	14.258	837219	14.276	49	50 - 200	-0.018	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	287796	3.95	284672	3.952	101	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	338978	15.005	544579	15.015	62	50 - 200	-0.010	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0136	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SC1002C (22L0459-05)		(Solid)		Lab File ID: 01112314ECD7.D				Analyzed: 01/11/23 13:29	
1-Bromo-2-Nitrobenzene	409451	3.514	355800	3.514	115	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	394467	14.257	837219	14.276	47	50 - 200	-0.019	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	291377	3.951	284672	3.952	102	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	335168	15.006	544579	15.015	62	50 - 200	-0.009	+/-0.50	
LDW23-SC1091B (22L0459-07)		(Solid)		Lab File ID: 01112316ECD7.D				Analyzed: 01/11/23 14:12	
1-Bromo-2-Nitrobenzene	393899	3.514	355800	3.514	111	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	415431	14.258	837219	14.276	50	50 - 200	-0.018	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	286797	3.95	284672	3.952	101	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	349182	15.006	544579	15.015	64	50 - 200	-0.009	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0139	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SC1070B (22L0459-06)		(Solid)	Lab File ID: 01122311ECD7.D				Analyzed: 01/12/23 15:11		
1-Bromo-2-Nitrobenzene	376440	3.514	373485	3.513	101	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	620882	14.26	898333	14.274	69	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	281024	3.951	293133	3.95	96	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	472167	15.007	568108	15.014	83	50 - 200	-0.007	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	22L0459-01	File ID:	01112308ECD7.D
Sampled:	12/16/22 08:19	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 11:23
Solids:	56.64	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLA0069	Sequence:	SLA0136		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.407	8.427	0.02	130698.5	116	7.1
	2	8.31	8.326	0.016	68919.25	108	
Aroclor 1254	1	9.296	9.318	0.022	176442.4	135	5.8
	* 2	9.446	9.466	0.02	184238.4	143	
Aroclor 1260	1	11.041	11.0625	0.0215	123470	137	7.6
	* 2	11.652	11.66983	0.0178	152211	127	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	22L0459-02	File ID:	01112309ECD7.D
Sampled:	12/16/22 09:12	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 11:44
Solids:	57.86	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLA0069	Sequence:	SLA0136		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.408	8.427	0.019	53415.25	46.9	2.8
	2	8.311	8.326	0.015	29841.5	45.6	
Aroclor 1254	1	9.297	9.318	0.021	65242.6	48.8	24.8
	* 2	9.447	9.466	0.019	73081.4	62.6	
Aroclor 1260	1	11.043	11.0625	0.0195	41266.8	41.7	7.5
	* 2	11.651	11.66983	0.0188	49155	38.7	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	22L0459-03	File ID:	01112310ECD7.D
Sampled:	12/16/22 09:50	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 12:05
Solids:	55.02	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLA0069	Sequence:	SLA0136		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.408	8.427	0.019	97223	84.2	2.7
	* 2	8.31	8.326	0.016	54373.5	86.5	
Aroclor 1254	1	9.296	9.318	0.022	119050.4	89.9	30.3
	* 2	9.446	9.466	0.02	136009.6	122	
Aroclor 1260	1	11.042	11.0625	0.0205	82148.6	96.1	9.
	* 2	11.651	11.66983	0.0188	102455	87.8	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	22L0459-04	File ID:	01112313ECD7.D
Sampled:	12/16/22 10:43	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 13:08
Solids:	56.35	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLA0069	Sequence:	SLA0136		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.409	8.427	0.018	37817.75	32.3	5.1
	2	8.312	8.326	0.014	20571.75	30.7	
Aroclor 1254	1	9.297	9.318	0.021	52901.8	35.8	36.2
	* 2	9.448	9.466	0.018	59247.2	51.6	
Aroclor 1260	1	11.043	11.0625	0.0195	39184.2	40.3	4.6
	* 2	11.653	11.66983	0.0168	46752.75	38.5	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	22L0459-05	File ID:	01112314ECD7.D
Sampled:	12/16/22 11:20	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 13:29
Solids:	54.59	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLA0069	Sequence:	SLA0136		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.409	8.427	0.018	60159.5	49.8	1.6
	2	8.311	8.326	0.015	32483	49.0	
Aroclor 1254	1	9.297	9.318	0.021	75145.4	52.6	33.1
	* 2	9.447	9.466	0.019	85891.4	73.5	
Aroclor 1260	1	11.042	11.0625	0.0205	51216	54.8	5.2
	* 2	11.652	11.66983	0.0178	63684.5	52.0	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	22L0459-07	File ID:	01112316ECD7.D
Sampled:	12/16/22 12:38	Prepared:	01/05/23 10:50	Analyzed:	01/11/23 14:12
Solids:	61.13	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLA0069	Sequence:	SLA0136		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.41	8.427	0.017	90703.25	78.0	.
	* 2	8.311	8.326	0.015	50234.75	78.0	
Aroclor 1254	1	9.297	9.318	0.021	117495.2	85.1	21.9
	* 2	9.448	9.466	0.018	122306.6	106	
Aroclor 1260	1	11.044	11.0625	0.0185	65934.4	66.1	5.4
	* 2	11.653	11.66983	0.0168	80039.5	62.6	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	22L0459-06	File ID:	01122311ECD7.D
Sampled:	12/16/22 12:01	Prepared:	01/05/23 10:50	Analyzed:	01/12/23 15:11
Solids:	52.36	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLA0069	Sequence:	SLA0139		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.412	8.427	0.015	75625.5	510	3.8
	2	8.313	8.326	0.013	33585	530	
Aroclor 1254	* 1	9.3	9.318	0.018	110418	809	7.
	2	9.451	9.466	0.015	88172	754	
Aroclor 1260	* 1	11.046	11.0625	0.0165	38383.2	263	4.3
	2	11.655	11.66983	0.0148	43283.25	252	

* Column used for quantitation

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SC1123B 22L0459-01	12/16/22 08:19	12/16/22 15:47	01/05/23 10:50	20	365	01/11/23 11:23	6	40	
LDW23-SC1053C 22L0459-02	12/16/22 09:12	12/16/22 15:47	01/05/23 10:50	20	365	01/11/23 11:44	6	40	
LDW23-SC1039C 22L0459-03	12/16/22 09:50	12/16/22 15:47	01/05/23 10:50	20	365	01/11/23 12:05	6	40	
LDW23-SC1007B 22L0459-04	12/16/22 10:43	12/16/22 15:47	01/05/23 10:50	20	365	01/11/23 13:08	6	40	
LDW23-SC1002C 22L0459-05	12/16/22 11:20	12/16/22 15:47	01/05/23 10:50	19	365	01/11/23 13:29	6	40	
LDW23-SC1070B 22L0459-06	12/16/22 12:01	12/16/22 15:47	01/05/23 10:50	19	365	01/12/23 15:11	7	40	
LDW23-SC1091B 22L0459-07	12/16/22 12:38	12/16/22 15:47	01/05/23 10:50	19	365	01/11/23 14:12	6	40	
Matrix Spike BLA0069-MS1	12/16/22 09:50	12/16/22 15:47	01/04/23 10:50	19	365	01/11/23 12:26	7	40	
Matrix Spike Dup BLA0069-MSD1	12/16/22 09:50	12/16/22 15:47	01/04/23 10:50	19	365	01/11/23 12:47	7	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ECD7

Analyte	MDL	RL	Units
Aroclor 1016	1.6	4.0	ug/kg
Aroclor 1016 [2C]	1.6	4.0	ug/kg
Aroclor 1221	1.6	4.0	ug/kg
Aroclor 1221 [2C]	1.6	4.0	ug/kg
Aroclor 1232	1.6	4.0	ug/kg
Aroclor 1232 [2C]	1.6	4.0	ug/kg
Aroclor 1242	1.6	4.0	ug/kg
Aroclor 1242 [2C]	1.6	4.0	ug/kg
Aroclor 1248	1.6	4.0	ug/kg
Aroclor 1248 [2C]	1.6	4.0	ug/kg
Aroclor 1254	1.6	4.0	ug/kg
Aroclor 1254 [2C]	1.6	4.0	ug/kg
Aroclor 1260	0.6	4.0	ug/kg
Aroclor 1260 [2C]	0.6	4.0	ug/kg

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

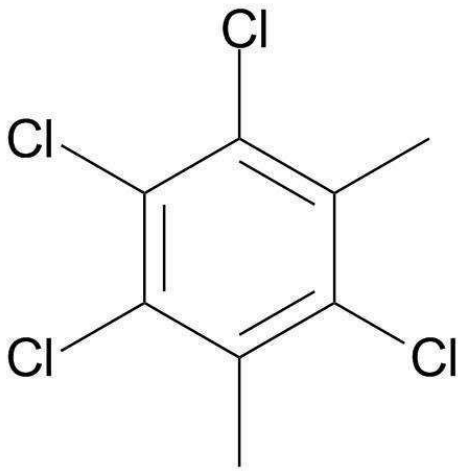
ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration[1]
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C8H6Cl4
Molecular weight: 243.94



C000147
tetrachlormetaxylene
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

AccuStandard
125 Market Street
New Haven, CT 06513
(203) 786-5290

CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N
DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
LOT #: 990521LB-AC
SOLVENT: N/A

EXPIRATION: Jul 28, 2015

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1]	Certified Analyte Concentration[2]
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

C000148
decachlorbiphenyl
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

* I1768A

Certified by: R. Cooper

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

* Recertified 2 4-6-09 JS

Analytical Standard Record

Standard ID: C000148 **Printed: 4/23/2015 11:54:44AM**

Description:	decachlorbiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	990521lb-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By Date

Certificate of Analysis

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6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101468
Description: Aroclor 1221
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14017
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1221	11104-28-2	1000	± 0.553%

I 10155

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

phenova Certified Reference Materials | A Phenomenex Company

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101469
Description: Aroclor 1232
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14914
Certification Date: January 31, 2020
Expiration Date: January 31, 2028

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1232	11141-16-5	1000	± 0.738%

I 010156

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Certicate No. 2427.03

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101470
Description: Aroclor 1242
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14018
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1242	53469-21-9	1000	± 0.553%

I 010157

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2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101471
Description: Aroclor 1248
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL15384
Certification Date: June 19, 2020
Expiration Date: June 30, 2028

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1248	12672-29-6	1000	± 0.520%

I 010158

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3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101472
Description: Aroclor 1254
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL13055
Certification Date: November 29, 2018
Expiration Date: November 30, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1254	11097-69-1	1000	± 0.247%

I 010159

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2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101474	**Lot Number:**	CL11330
Description:	Aroclor 1262	**Certification Date:**	May 15, 2015
Storage:	4 °C	**Expiration Date:**	April 30, 2023
Provided As:	1 mL in 2 mL Ampoule in Isooctane	**Revision Date:**	April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1262	37324-23-5	1000	± 0.516%

I 10160

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2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101475	**Lot Number:**	CL11331
Description:	Aroclor 1268	**Certification Date:**	May 15, 2015
Storage:	4 °C	**Expiration Date:**	April 30, 2023
Provided As:	1 mL in 2 mL Ampoule in Isooctane	**Revision Date:**	April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1268	11100-14-4	1000	± 0.516%

I 012161

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3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

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11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

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Certificate of Analysis

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Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL16516
Certification Date: March 4, 2021
Expiration Date: February 28, 2029

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

J00645

A2LA ACCREDITED
Reference Material Producer
Certicate No. 2427.02

phenova Certified Reference Materials | A Phenomenex Company

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

A2LA ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL6491018_us

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101467
Description: Aroclor 1016
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL16555
Certification Date: June 22, 2021
Expiration Date: February 28, 2029

Andrea Gill, Certified Reference Materials Manager

J012591
AROCLOR 1016
Expires 2/28/2029
Prepared By Joshua Rains 11/26/2021

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.310%

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

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6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL16516
Certification Date: March 4, 2021
Expiration Date: February 28, 2029

J012592
AROCLOR 1260
Expires 2/28/2029
Prepared By Joshua Rains 11/26/2021

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

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Produced by Phenova
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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Agilent

Aroclor 1016 Solution

Product Number: PP-282 **Page:** 1 of 1

Lot Number: CR-0761 **Lot Issue Date:** 28-Feb-2017 **Expiration Date:** 31-Mar-2025

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1016	012674-11-2	NT01016	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1254 JR
Reed
02/05/22

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1260 Standard

Product Number: PP-362-1 **Lot Issue Date:** 20-Jan-2021

Lot Number: 0006582048 **Expiration Date:** 28-Feb-2025

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1260	011096-82-5	NT01023	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K 1255

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

MJBourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

Agilent

Certificate of Analysis
ISO Guide 34

Aroclor 1242 Solution

Product Number: PP-312 **Page:** 1 of 1

Lot Number: CS-6293 **Lot Issue Date:** 04-Jan-2019 **Expiration Date:** 31-Jan-2023

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1242	053469-21-9	NT01020	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1256

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No.
AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name:	Aroclor 1248 Standard	**Lot Number:**	0006626997
Product Number:	PP-342-1	**Lot Issue Date:**	17-Aug-2021
Storage Conditions:	Store at Room Temperature (15° to 30°C).	**Expiration Date:**	30-Sep-2025

	CERTIFIED VALUES				
Component Name	Concentration		Expanded Uncertainty	CAS#	Analyte Lot
Aroclor 1248	100.3	±	0.5 µg/mL	012672-29-6	NT01582

Matrix: isooctane (2,2,4-trimethylpentane)

K1257

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Certificate of Analysis

Agilent

Aroclor 1254 Solution

Product Number: PP-352 **Page:** 1 of 1

Lot Number: CS-2321 **Lot Issue Date:** 04-May-2018 **Expiration Date:** 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	RM00922	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1258

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1221 Standard

Product Number: PP-292-1 **Lot Issue Date:** 28-Apr-2020

Lot Number: 0006535333 **Expiration Date:** 31-May-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1221	011104-28-2	RM04278	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1259

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

MBourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

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Agilent

Certificate of Analysis
ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1 **Page:** 1 of 1

Lot Number: 0006499800 **Lot Issue Date:** 04-Nov-2019 **Expiration Date:** 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1262	037324-23-5	RM14263	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1260

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

Agilent

Certificate of Analysis
ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1 **Page:** 1 of 1

Lot Number: CF-2197A **Lot Issue Date:** 05-Jul-2016 **Expiration Date:** 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1261

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No. AT-1937

Agilent

Certificate of Analysis

Product Name: Aroclor 1268 Standard

Product Number: PP-382-1 **Lot Issue Date:** 09-Feb-2021

Lot Number: 0006587800 **Expiration Date:** 31-Mar-2029

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1268	011100-14-4	RM00937	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1262

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101467
Description: Aroclor 1016
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL12975
Certification Date: November 19, 2018
Expiration Date: October 31, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.553%

K5829

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL11110613_us

Certificate of Analysis

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Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111106I3_US

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL18021
Certification Date: February 14, 2022
Expiration Date: February 28, 2030

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

K005830

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15570

Order Number: CB014985

Date Shipped: 12/12/2022

AirBill No(s): 519204142631

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

To: SUE DUNNIHOO
ANALYTICAL RESOURCES INC.
4611 S. 134TH PLACE SUITE 100
TUKWILA WA 98168
250-695-6207

Sample ID	Sigma ID	Qty	Description/Remarks	→ Catalogue Number
KO1147 PSRM0168	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
KO1148 PSRM0169	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
KO1149 PSRM0171	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM

12/12/2022

PUGET SOUND SRM FOR DUWAMISH AOC4 PROJECT.

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	12/12/2022 (1400)	Phillip	12/12/22 11:15
Custody Seal(s): Present/Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1053C

Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-02 A	File ID:	23020718
Sampled:	12/16/22 09:12	Prepared:	01/09/23 15:50	Analyzed:	02/07/23 23:07
% Solids:	59.42	Preparation:	EPA 1613	Initial/Final:	16.83 g Wet / 20 uL
Result Basis:	Dry	Sequence:	SLB0072	Calibration:	GB00010
Batch:	BLA0079	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.801	0.655-0.886	0.136	1.00	0.859	ng/kg	X, J
1746-01-6	2,3,7,8-TCDD	1	0.636	0.655-0.886	0.092	1.00	0.518	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.120	1.318-1.783	0.181	1.00	0.611	ng/kg	EMPC, J
57117-31-4	2,3,4,7,8-PeCDF	1	1.527	1.318-1.783	0.178	1.00	1.08	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.317	1.318-1.783	0.251	1.00	1.19	ng/kg	EMPC, B
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.236	1.054-1.426	0.083	1.00	3.24	ng/kg	B
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.247	1.054-1.426	0.080	1.00	1.36	ng/kg	B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.041	1.054-1.426	0.085	1.00	0.944	ng/kg	EMPC, J, B
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.136	1.054-1.426	0.092	1.00	0.800	ng/kg	J, B
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.154	1.054-1.426	0.208	1.00	1.50	ng/kg	
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.174	1.054-1.426	0.204	1.00	5.79	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.149	1.054-1.426	0.210	1.00	3.51	ng/kg	B
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.015	0.893-1.208	0.111	1.00	26.9	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.089	0.893-1.208	0.147	1.00	2.07	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.034	0.893-1.208	0.352	2.50	207	ng/kg	B
39001-02-0	OCDF	1	0.889	0.757-1.024	0.191	2.50	72.6	ng/kg	B
3268-87-9	OCDD	1	0.875	0.757-1.024	0.485	10.0	1740	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	12.2	ng/kg	
41903-57-5	Total TCDD	1	0.000			1.00	3.91	ng/kg	
30402-15-4	Total PeCDF	1	0.000			1.00	10.5	ng/kg	
36088-22-9	Total PeCDD	1	0.000			1.00	3.37	ng/kg	
55684-94-1	Total HxCDF	1	0.000			1.00	39.6	ng/kg	
34465-46-8	Total HxCDD	1	0.000			1.00	48.6	ng/kg	
38998-75-3	Total HpCDF	1	0.000			1.00	94.9	ng/kg	
37871-00-4	Total HpCDD	1	0.000			1.00	453	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 6.75
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 6.75

Analytical Resources, Incorporated
Analytical Chemists and Consultants

LDW23-SC1053C

Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	22L0459-02	File ID:	23020718
Sampled:	12/16/22 09:12	Prepared:	01/09/23 15:50	Analyzed:	02/07/23 23:07
Solids Wt%:	59.42	Preparation:	EPA 1613	Initial/Final:	16.83 g / 20 uL
Result Basis:	Dry	Sequence:	SLB0072	Calibration:	GB00010
Batch:	BLA0079	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.780	0.655-0.886	0.137	79.8	24 - 169 %	
13C12-2,3,7,8-TCDD		0.775	0.655-0.886	0.185	96.6	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.545	1.318-1.783	0.137	87.1	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.529	1.318-1.783	0.142	87.2	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.630	1.318-1.783	0.175	93.3	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.451	0.434-0.587	0.152	82.1	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.450	0.434-0.587	0.148	80.7	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.511	0.434-0.587	0.158	84.0	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.502	0.434-0.587	0.173	80.7	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.262	1.054-1.426	0.108	95.5	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.263	1.054-1.426	0.104	92.9	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.449	0.374-0.506	0.149	74.0	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.442	0.374-0.506	0.171	77.1	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.077	0.893-1.208	0.154	79.1	23 - 140 %	
13C12-OCDD		0.912	0.757-1.024	0.142	73.2	17 - 157 %	
37Cl4-2,3,7,8-TCDD		328.000		0.046	76.9	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:32:06 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0459-02, Name: 23020718, Date: 07-Feb-2023, Time: 23:07:07, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.897	1.001	1.326e3	1.655e3	0.876	0.801	0.770	721	1680	1.98e4	2.64e4	27.5	15.7	NO	dd	dd	0.430
12378-PeCDF	30.049	1.000	1.018e3	9.087e2	0.845	1.120	1.550	1602	1421	1.62e4	1.31e4	10.1	9.2	YES	bb	bb	0.305
23478-PeCDF	31.385	1.000	2.134e3	1.397e3	0.911	1.527	1.550	1602	1421	3.24e4	2.14e4	20.2	15.1	NO	db	db	0.540
123478-HxCDF	35.006	1.000	6.253e3	5.059e3	1.182	1.236	1.240	706	955	1.01e5	8.06e4	142.8	84.5	NO	dd	dd	1.622
234678-HxCDF	36.020	1.000	1.722e3	1.653e3	1.229	1.041	1.240	706	955	3.35e4	2.75e4	47.4	28.9	YES	db	db	0.472
123678-HxCDF	35.140	1.000	2.809e3	2.253e3	1.248	1.247	1.240	706	955	4.13e4	3.58e4	58.4	37.5	NO	db	db	0.682
123789-HxCDF	37.012	1.000	1.290e3	1.135e3	1.187	1.136	1.240	706	955	1.83e4	1.72e4	25.9	18.0	NO	bb	bb	0.400
1234678-HpCDF	38.872	1.000	4.275e4	4.210e4	1.204	1.015	1.050	945	1019	7.03e5	6.90e5	744.2	677.3	NO	bd	bd	13.454
1234789-HpCDF	41.123	1.001	2.995e3	2.750e3	1.165	1.089	1.050	945	1019	4.53e4	3.81e4	48.0	37.4	NO	bb	bb	1.035
OCDF	45.394	1.006	7.983e4	8.977e4	1.186	0.889	0.890	876	1018	9.47e5	1.08e6	1080.0	1058.7	NO	bd	bd	36.317
2378-TCDD	26.532	1.001	7.455e2	1.172e3	1.236	0.636	0.770	856	868	1.06e4	1.71e4	12.3	19.7	YES	bd	bd	0.259
12378-PeCDD	31.631	1.000	1.758e3	1.335e3	1.087	1.317	1.550	1666	1625	2.59e4	1.79e4	15.5	11.0	YES	bb	bb	0.594
123478-HxCDD	36.132	1.000	2.413e3	2.092e3	0.987	1.154	1.240	1606	1877	3.95e4	3.32e4	24.6	17.7	NO	bd	bd	0.751
123678-HxCDD	36.254	1.001	9.752e3	8.308e3	1.021	1.174	1.240	1606	1877	1.47e5	1.24e5	91.7	66.2	NO	dd	dd	2.893
123789-HxCDD	36.633	1.011	5.641e3	4.911e3	0.985	1.149	1.240	1606	1877	9.02e4	7.52e4	56.2	40.1	NO	bb	bb	1.755
1234678-HpCDD	40.376	1.001	2.777e5	2.686e5	1.253	1.034	1.050	2579	2320	4.29e6	4.14e6	1662.3	1783.3	NO	bd	bb	103.264
OCDD	45.156	1.000	1.763e6	2.015e6	1.103	0.875	0.890	1462	3016	2.26e7	2.56e7	15437.1	8497.3	NO	bb	bb	870.395
13C-2378-TCDF	25.867	1.007	3.471e5	4.451e5	1.768	0.780	0.770	2057	1433	5.30e6	6.87e6	2574.9	4793.7	NO	bb	bb	79.754
13C-12378-PeCDF	30.037	1.169	4.535e5	2.935e5	1.527	1.545	1.550	1592	1418	7.19e6	4.63e6	4516.8	3261.8	NO	bb	bb	87.066
13C-23478-PeCDF	31.374	1.221	4.342e5	2.839e5	1.466	1.529	1.550	1592	1418	6.76e6	4.38e6	4247.8	3085.9	NO	bb	bb	87.171
13C-123478-HxCDF	34.995	0.956	1.835e5	4.069e5	1.054	0.451	0.510	1425	1653	3.14e6	6.57e6	2206.3	3973.9	NO	bb	bd	82.073
13C-123678-HxCDF	35.129	0.959	1.847e5	4.105e5	1.080	0.450	0.510	1425	1653	3.10e6	6.50e6	2173.1	3935.1	NO	bb	db	80.723
13C-234678-HxCDF	36.009	0.983	1.966e5	3.852e5	1.014	0.511	0.510	1425	1653	3.22e6	6.31e6	2262.7	3817.8	NO	bb	bb	84.023
13C-123789-HxCDF	37.012	1.011	1.709e5	3.402e5	0.928	0.502	0.510	1425	1653	3.06e6	6.12e6	2149.1	3700.3	NO	bb	bb	80.685
13C-1234678-HpCDF	38.861	1.061	1.623e5	3.614e5	1.036	0.449	0.440	1216	1751	2.74e6	6.07e6	2253.3	3466.5	NO	bb	bb	74.049
13C-1234789-HpCDF	41.100	1.122	1.461e5	3.303e5	0.905	0.442	0.440	1216	1751	2.11e6	4.69e6	1737.7	2676.5	NO	bd	bd	77.108
13C-1234-TCDD	25.685	0.000	2.483e5	3.136e5	1.000	0.792	0.770	1692	1252	3.83e6	4.84e6	2261.4	3867.1	NO	bb	bb	100.000
13C-2378-TCDD	26.502	1.032	2.613e5	3.372e5	1.103	0.775	0.770	1692	1252	3.98e6	5.18e6	2349.9	4139.3	NO	bb	bb	96.586
13C-12378-PeCDD	31.619	1.231	2.971e5	1.823e5	0.914	1.630	1.550	1572	735	4.49e6	2.76e6	2854.1	3760.7	NO	bb	bd	93.340
13C-123478-HxCDD	36.120	0.986	3.393e5	2.689e5	0.933	1.262	1.240	1036	892	5.68e6	4.52e6	5481.5	5059.2	NO	bd	bd	95.495
13C-123678-HxCDD	36.232	0.989	3.413e5	2.703e5	0.965	1.263	1.240	1036	892	5.61e6	4.46e6	5414.0	4998.1	NO	db	db	92.878
13C-1234678-HpCDD	40.354	1.102	2.190e5	2.033e5	0.782	1.077	1.050	1050	1257	3.46e6	3.20e6	3293.7	2548.5	NO	bb	bb	79.120
13C-OCDD	45.138	1.233	3.755e5	4.118e5	0.788	0.912	0.890	983	1168	4.79e6	5.27e6	4874.4	4508.9	NO	bb	bb	146.314
13C-123789-HxCDD	36.622	0.000	3.809e5	3.017e5	1.000	1.263	1.240	1036	892	6.43e6	4.99e6	6212.0	5589.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.033	2.133e5		1.233			825		3.26e6		3952.5			bb		30.776

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:32:06 Pacific Standard Time

ID: 22L0459-02, Name: 23020718, Date: 07-Feb-2023, Time: 23:07:07, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRF	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.374	0.865	5.150e2	8.034e2	1.064	0.641	0.770	721	1680	8.68e3	1.20e4	12.0	7.1	YES	bb	bb	0.156
1289-TCDF	27.348	1.057	2.598e2	1.597e2	0.858	1.627	0.770	721	1680	3.23e3	3.41e3	4.5	2.0	YES	dd	dd	0.062
13468-PECDF					1.013		1.550	900	876								
12389-PECDF					0.844		1.550	1602	1421								
123468-HXCDF	33.357	0.953	7.313e3	5.914e3	1.197	1.237	1.240	706	955	1.10e5	9.01e4	155.8	94.4	NO	bd	bd	1.871
1368-TCDD	23.644	0.892	1.491e3	2.260e3	1.084	0.660	0.770	856	868	2.29e4	3.83e4	26.8	44.1	NO	bb	bb	0.578
1289-TCDD	27.137	1.024	1.807e2	1.731e2	0.975	1.044	0.770	856	868	2.60e3	2.88e3	3.0	3.3	YES	bb	bb	0.061
12479-PECDD	28.934	0.915	2.370e3	2.866e3	1.837	0.827	1.550	1666	1625	4.56e4	3.00e4	27.4	18.5	YES	bd	MM	0.595
12389-PECDD					1.252		1.550	1666	1625								
124679-HXCDD	34.115	0.944	2.478e4	2.094e4	1.033	1.183	1.240	1606	1877	3.97e5	3.31e5	247.1	176.6	NO	bb	bb	7.277
1234679-HPCDD	39.318	0.974	3.425e5	3.274e5	1.286	1.046	1.050	2579	2320	5.46e6	5.31e6	2115.7	2288.2	NO	bb	bb	123.338
Total-tetrafurans			1.942e4		0.933			721		2.69e5							6.095
Total-penta1			1.682e4					900		2.45e5							3.999
Total-pentafurans			4.737e3		0.866			1602		7.43e4							1.241
Total-hexafurans			7.581e4		1.208			706		1.16e6							19.802
Total-heptafurans			1.432e5		1.185			945		2.33e6							47.436
Total-Furans			3.398e5		1.067			721		5.02e6							114.889
Total-tetradioxins			5.405e3		1.099			856		7.76e4							1.955
Total-pentadioxins			7.063e3		1.392			1666		8.46e4							1.685
Total-hexadioxins			8.208e4		1.007			1606		1.15e6							24.321
Total-heptadioxins			6.203e5		1.269			2579		9.74e6							226.601
Total-Dioxins			2.478e6		1.165			856		3.36e7							1124.990
Total-TEQ			2.818e6					856		3.86e7							1239.879
FUNCTION1 PFK			1.744e7					357817		1.28e8							
FUNCTION2 PFK			1.202e7					226099		1.54e8							0.000
FUNCTION3 PFK			7.759e6					173019		3.45e7							0.000
FUNCTION4 PFK			0.000e0					175347		0.00e0							
FUNCTION5 PFK			2.231e4					98999		3.85e5							
FUNCTION1 HXCD...			1.905e3					610		2.84e4							0.000
FUNCTION1 HPCD...			7.663e3					543		1.23e5							0.000
FUNCTION2 HPCD...			5.107e2					744		9.58e3							0.000
FUNCTION3 OCDPE			8.561e1					529		2.55e3							0.000
FUNCTION4 NCDPE			5.194e3					728		8.57e4							0.000
FUNCTION5 DCDPE			1.089e2					675		1.24e3							0.000

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.55	1.759e3	2.265e3	0.933	0.78	0.77	33.6	YES	NO	bd	bd	0.545
2	Total-tetrafurans	23.99	7.497e2	1.083e3	0.933	0.69	0.77	15.8	YES	NO	dd	dd	0.248
3	Total-tetrafurans	23.87	1.488e3	2.246e3	0.933	0.66	0.77	32.8	YES	NO	dd	dd	0.505
4	Total-tetrafurans	23.72	4.952e2	5.979e2	0.933	0.83	0.77	11.2	YES	NO	dd	dd	0.148
5	Total-tetrafurans	23.52	3.549e3	4.280e3	0.933	0.83	0.77	63.1	YES	NO	dd	dd	1.060
6	Total-tetrafurans	23.22	2.329e3	3.261e3	0.933	0.71	0.77	49.1	YES	NO	bd	bd	0.756
7	Total-tetrafurans	26.02	8.657e2	9.973e2	0.933	0.87	0.77	15.5	YES	NO	dd	dd	0.252
8	2378-TCDF	25.90	1.326e3	1.655e3	0.876	0.80	0.77	27.5	YES	NO	dd	dd	0.430
9	Total-tetrafurans	25.65	2.783e3	4.106e3	0.933	0.68	0.77	42.8	YES	NO	dd	bd	0.932
10	Total-tetrafurans	25.20	7.709e2	9.495e2	0.933	0.81	0.77	14.8	YES	NO	bd	bb	0.233
11	Total-tetrafurans	24.97	1.105e3	1.435e3	0.933	0.77	0.77	21.8	YES	NO	db	bb	0.344
12	Total-tetrafurans	24.79	2.200e3	2.548e3	0.933	0.86	0.77	45.6	YES	NO	dd	bb	0.643

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.32	1.682e4	1.057e4		1.59	1.55	272.5	YES	NO	bb	bb	3.999

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.39	2.134e3	1.397e3	0.911	1.53	1.55	20.2	YES	NO	db	db	0.540
2	Total-pentafurans	31.13	1.180e3	8.110e2	0.866	1.45	1.55	11.3	YES	NO	bd	bd	0.314
3	Total-pentafurans	30.25	1.423e3	1.038e3	0.866	1.37	1.55	14.9	YES	NO	bd	bd	0.388

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123468-HXCDF	33.36	7.313e3	5.914e3	1.197	1.24	1.24	155.8	YES	NO	bd	bd	1.871
2	123789-HxCDF	37.01	1.290e3	1.135e3	1.187	1.14	1.24	25.9	YES	NO	bb	bb	0.400
3	123678-HxCDF	35.14	2.809e3	2.253e3	1.248	1.25	1.24	58.4	YES	NO	db	db	0.682
4	123478-HxCDF	35.01	6.253e3	5.059e3	1.182	1.24	1.24	142.8	YES	NO	dd	dd	1.622
5	Total-hexafurans	34.86	1.234e3	9.961e2	1.208	1.24	1.24	26.6	YES	NO	bd	bd	0.324
6	Total-hexafurans	34.39	3.376e4	2.708e4	1.208	1.25	1.24	745.7	YES	NO	bb	bb	8.838
7	Total-hexafurans	33.56	2.316e4	1.860e4	1.208	1.25	1.24	489.5	YES	NO	db	db	6.066

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HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.28	1.096e3	9.878e2	1.185	1.11	1.05	15.2	YES	NO	db	bb	0.352
2	1234678-HpCDF	38.87	4.275e4	4.210e4	1.204	1.02	1.05	744.2	YES	NO	bd	bd	13.454
3	1234789-HpCDF	41.12	2.995e3	2.750e3	1.165	1.09	1.05	48.0	YES	NO	bb	bb	1.035
4	Total-heptafurans	39.53	9.634e4	9.677e4	1.185	1.00	1.05	1655.7	YES	NO	bd	bb	32.595

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.55	1.759e3	2.265e3	0.933	0.78	0.77	33.6	YES	NO	bd	bd	0.545
2	Total-tetrafurans	23.99	7.497e2	1.083e3	0.933	0.69	0.77	15.8	YES	NO	dd	dd	0.248
3	Total-tetrafurans	23.87	1.488e3	2.246e3	0.933	0.66	0.77	32.8	YES	NO	dd	dd	0.505
4	Total-tetrafurans	23.72	4.952e2	5.979e2	0.933	0.83	0.77	11.2	YES	NO	dd	dd	0.148
5	Total-tetrafurans	23.52	3.549e3	4.280e3	0.933	0.83	0.77	63.1	YES	NO	dd	dd	1.060
6	Total-tetrafurans	23.22	2.329e3	3.261e3	0.933	0.71	0.77	49.1	YES	NO	bd	bd	0.756
7	Total-tetrafurans	26.02	8.657e2	9.973e2	0.933	0.87	0.77	15.5	YES	NO	dd	dd	0.252
8	2378-TCDF	25.90	1.326e3	1.655e3	0.876	0.80	0.77	27.5	YES	NO	dd	dd	0.430
9	Total-tetrafurans	25.65	2.783e3	4.106e3	0.933	0.68	0.77	42.8	YES	NO	dd	bd	0.932
10	Total-tetrafurans	25.20	7.709e2	9.495e2	0.933	0.81	0.77	14.8	YES	NO	bd	bb	0.233
11	Total-tetrafurans	24.97	1.105e3	1.435e3	0.933	0.77	0.77	21.8	YES	NO	db	bb	0.344
12	Total-tetrafurans	24.79	2.200e3	2.548e3	0.933	0.86	0.77	45.6	YES	NO	dd	bb	0.643
13	23478-PeCDF	31.39	2.134e3	1.397e3	0.911	1.53	1.55	20.2	YES	NO	db	db	0.540
14	Total-pentafurans	31.13	1.180e3	8.110e2	0.866	1.45	1.55	11.3	YES	NO	bd	bd	0.314
15	Total-pentafurans	30.25	1.423e3	1.038e3	0.866	1.37	1.55	14.9	YES	NO	bd	bd	0.388
16	123468-HXCDF	33.36	7.313e3	5.914e3	1.197	1.24	1.24	155.8	YES	NO	bd	bd	1.871
17	123789-HxCDF	37.01	1.290e3	1.135e3	1.187	1.14	1.24	25.9	YES	NO	bb	bb	0.400
18	123678-HxCDF	35.14	2.809e3	2.253e3	1.248	1.25	1.24	58.4	YES	NO	db	db	0.682
19	123478-HxCDF	35.01	6.253e3	5.059e3	1.182	1.24	1.24	142.8	YES	NO	dd	dd	1.622
20	Total-hexafurans	34.86	1.234e3	9.961e2	1.208	1.24	1.24	26.6	YES	NO	bd	bd	0.324
21	Total-hexafurans	34.39	3.376e4	2.708e4	1.208	1.25	1.24	745.7	YES	NO	bb	bb	8.838
22	Total-hexafurans	33.56	2.316e4	1.860e4	1.208	1.25	1.24	489.5	YES	NO	db	db	6.066
23	Total-heptafurans	39.28	1.096e3	9.878e2	1.185	1.11	1.05	15.2	YES	NO	db	bb	0.352
24	1234678-HpCDF	38.87	4.275e4	4.210e4	1.204	1.02	1.05	744.2	YES	NO	bd	bd	13.454
25	1234789-HpCDF	41.12	2.995e3	2.750e3	1.165	1.09	1.05	48.0	YES	NO	bb	bb	1.035
26	Total-heptafurans	39.53	9.634e4	9.677e4	1.185	1.00	1.05	1655.7	YES	NO	bd	bb	32.595
27	OCDF	45.39	7.983e4	8.977e4	1.186	0.89	0.89	1080.0	YES	NO	bd	bd	36.317
28	Total-penta1	27.32	1.682e4	1.057e4		1.59	1.55	272.5	YES	NO	bb	bb	3.999

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TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.14	8.074e2	1.005e3	1.099	0.80	0.77	14.8	YES	NO	bb	bd	0.276
2	Total-tetradioxins	24.66	7.734e2	1.025e3	1.099	0.75	0.77	14.1	YES	NO	bd	bd	0.273
3	Total-tetradioxins	23.92	1.047e3	1.465e3	1.099	0.72	0.77	17.1	YES	NO	bb	bd	0.382
4	1368-TCDD	23.64	1.491e3	2.260e3	1.084	0.66	0.77	26.8	YES	NO	bb	bb	0.578
5	Total-tetradioxins	26.65	4.640e2	5.863e2	1.099	0.79	0.77	7.6	YES	NO	db	db	0.160
6	Total-tetradioxins	26.14	5.652e2	6.867e2	1.099	0.82	0.77	5.8	YES	NO	bb	bb	0.190
7	Total-tetradioxins	25.70	2.568e2	3.709e2	1.099	0.69	0.77	4.3	YES	NO	bb	bb	0.095

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.04	1.990e3	1.238e3	1.392	1.61	1.55	18.5	YES	NO	bb	bb	0.484
2	Total-pentadioxins	28.97	5.073e3	2.944e3	1.392	1.72	1.55	32.3	YES	NO	MM	bb	1.201

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.63	5.641e3	4.911e3	0.985	1.15	1.24	56.2	YES	NO	bb	bb	1.755
2	Total-hexadioxins	36.41	1.622e3	1.307e3	1.007	1.24	1.24	15.5	YES	NO	db	db	0.477
3	123678-HxCDD	36.25	9.752e3	8.308e3	1.021	1.17	1.24	91.7	YES	NO	dd	dd	2.893
4	123478-HxCDD	36.13	2.413e3	2.092e3	0.987	1.15	1.24	24.6	YES	NO	bd	bd	0.751
5	Total-hexadioxins	35.36	2.129e3	1.878e3	1.007	1.13	1.24	23.3	YES	NO	db	db	0.653
6	Total-hexadioxins	35.25	3.046e4	2.487e4	1.007	1.23	1.24	203.4	YES	NO	bd	bd	9.013
7	Total-hexadioxins	34.88	5.279e3	3.944e3	1.007	1.34	1.24	53.0	YES	NO	bb	bb	1.502
8	124679-HXCDD	34.12	2.478e4	2.094e4	1.033	1.18	1.24	247.1	YES	NO	bb	bb	7.277

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.38	2.777e5	2.686e5	1.253	1.03	1.05	1662.3	YES	NO	bd	bb	103.264
2	1234679-HPCDD	39.32	3.425e5	3.274e5	1.286	1.05	1.05	2115.7	YES	NO	bb	bb	123.338

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.14	8.074e2	1.005e3	1.099	0.80	0.77	14.8	YES	NO	bb	bd	0.276
2	Total-tetradioxins	24.66	7.734e2	1.025e3	1.099	0.75	0.77	14.1	YES	NO	bd	bd	0.273
3	Total-tetradioxins	23.92	1.047e3	1.465e3	1.099	0.72	0.77	17.1	YES	NO	bb	bd	0.382
4	1368-TCDD	23.64	1.491e3	2.260e3	1.084	0.66	0.77	26.8	YES	NO	bb	bb	0.578
5	Total-Dioxins	21.65	1.053e2	1.236e2	1.165	0.85	0.77	2.4	NO	NO	bb	bb	0.033
6	Total-tetradioxins	26.65	4.640e2	5.863e2	1.099	0.79	0.77	7.6	YES	NO	db	db	0.160
7	Total-tetradioxins	26.14	5.652e2	6.867e2	1.099	0.82	0.77	5.8	YES	NO	bb	bb	0.190
8	Total-tetradioxins	25.70	2.568e2	3.709e2	1.099	0.69	0.77	4.3	YES	NO	bb	bb	0.095
9	Total-pentadioxins	30.04	1.990e3	1.238e3	1.392	1.61	1.55	18.5	YES	NO	bb	bb	0.484
10	123789-HxCDD	36.63	5.641e3	4.911e3	0.985	1.15	1.24	56.2	YES	NO	bb	bb	1.755
11	Total-hexadioxins	36.41	1.622e3	1.307e3	1.007	1.24	1.24	15.5	YES	NO	db	db	0.477
12	123678-HxCDD	36.25	9.752e3	8.308e3	1.021	1.17	1.24	91.7	YES	NO	dd	dd	2.893
13	123478-HxCDD	36.13	2.413e3	2.092e3	0.987	1.15	1.24	24.6	YES	NO	bd	bd	0.751
14	Total-hexadioxins	35.36	2.129e3	1.878e3	1.007	1.13	1.24	23.3	YES	NO	db	db	0.653
15	Total-hexadioxins	35.25	3.046e4	2.487e4	1.007	1.23	1.24	203.4	YES	NO	bd	bd	9.013
16	Total-hexadioxins	34.88	5.279e3	3.944e3	1.007	1.34	1.24	53.0	YES	NO	bb	bb	1.502
17	124679-HXCDD	34.12	2.478e4	2.094e4	1.033	1.18	1.24	247.1	YES	NO	bb	bb	7.277
18	1234678-HpCDD	40.38	2.777e5	2.686e5	1.253	1.03	1.05	1662.3	YES	NO	bd	bb	103.264
19	1234679-HPCDD	39.32	3.425e5	3.274e5	1.286	1.05	1.05	2115.7	YES	NO	bb	bb	123.338
20	OCDD	45.16	1.763e6	2.015e6	1.103	0.87	0.89	15437.1	YES	NO	bb	bb	870.395
21	Total-pentadioxins	28.97	5.073e3	2.944e3	1.392	1.72	1.55	32.3	YES	NO	MM	bb	1.201

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.55	1.759e3	2.265e3	0.933	0.78	0.77	33.6	YES	NO	bd	bd	0.545
2	Total-tetrafurans	23.99	7.497e2	1.083e3	0.933	0.69	0.77	15.8	YES	NO	dd	dd	0.248
3	Total-tetrafurans	23.87	1.488e3	2.246e3	0.933	0.66	0.77	32.8	YES	NO	dd	dd	0.505
4	Total-tetrafurans	23.72	4.952e2	5.979e2	0.933	0.83	0.77	11.2	YES	NO	dd	dd	0.148
5	Total-tetrafurans	23.52	3.549e3	4.280e3	0.933	0.83	0.77	63.1	YES	NO	dd	dd	1.060
6	Total-tetrafurans	23.22	2.329e3	3.261e3	0.933	0.71	0.77	49.1	YES	NO	bd	bd	0.756
7	Total-tetrafurans	26.02	8.657e2	9.973e2	0.933	0.87	0.77	15.5	YES	NO	dd	dd	0.252
8	2378-TCDF	25.90	1.326e3	1.655e3	0.876	0.80	0.77	27.5	YES	NO	dd	dd	0.430
9	Total-tetrafurans	25.65	2.783e3	4.106e3	0.933	0.68	0.77	42.8	YES	NO	dd	bd	0.932
10	Total-tetrafurans	25.20	7.709e2	9.495e2	0.933	0.81	0.77	14.8	YES	NO	bd	bb	0.233
11	Total-tetrafurans	24.97	1.105e3	1.435e3	0.933	0.77	0.77	21.8	YES	NO	db	bb	0.344
12	Total-tetrafurans	24.79	2.200e3	2.548e3	0.933	0.86	0.77	45.6	YES	NO	dd	bb	0.643
13	23478-PeCDF	31.39	2.134e3	1.397e3	0.911	1.53	1.55	20.2	YES	NO	db	db	0.540
14	Total-pentafurans	31.13	1.180e3	8.110e2	0.866	1.45	1.55	11.3	YES	NO	bd	bd	0.314
15	Total-pentafurans	30.25	1.423e3	1.038e3	0.866	1.37	1.55	14.9	YES	NO	bd	bd	0.388
16	123468-HXCDF	33.36	7.313e3	5.914e3	1.197	1.24	1.24	155.8	YES	NO	bd	bd	1.871
17	123789-HxCDF	37.01	1.290e3	1.135e3	1.187	1.14	1.24	25.9	YES	NO	bb	bb	0.400
18	123678-HxCDF	35.14	2.809e3	2.253e3	1.248	1.25	1.24	58.4	YES	NO	db	db	0.682
19	123478-HxCDF	35.01	6.253e3	5.059e3	1.182	1.24	1.24	142.8	YES	NO	dd	dd	1.622
20	Total-hexafurans	34.86	1.234e3	9.961e2	1.208	1.24	1.24	26.6	YES	NO	bd	bd	0.324
21	Total-hexafurans	34.39	3.376e4	2.708e4	1.208	1.25	1.24	745.7	YES	NO	bb	bb	8.838
22	Total-hexafurans	33.56	2.316e4	1.860e4	1.208	1.25	1.24	489.5	YES	NO	db	db	6.066
23	Total-heptafurans	39.28	1.096e3	9.878e2	1.185	1.11	1.05	15.2	YES	NO	db	bb	0.352
24	1234678-HpCDF	38.87	4.275e4	4.210e4	1.204	1.02	1.05	744.2	YES	NO	bd	bd	13.454
25	1234789-HpCDF	41.12	2.995e3	2.750e3	1.165	1.09	1.05	48.0	YES	NO	bb	bb	1.035
26	Total-heptafurans	39.53	9.634e4	9.677e4	1.185	1.00	1.05	1655.7	YES	NO	bd	bb	32.595
27	OCDF	45.39	7.983e4	8.977e4	1.186	0.89	0.89	1080.0	YES	NO	bd	bd	36.317
28	Total-penta1	27.32	1.682e4	1.057e4		1.59	1.55	272.5	YES	NO	bb	bb	3.999
29	Total-tetradioxins	25.14	8.074e2	1.005e3	1.099	0.80	0.77	14.8	YES	NO	bb	bd	0.276
30	Total-tetradioxins	24.66	7.734e2	1.025e3	1.099	0.75	0.77	14.1	YES	NO	bd	bd	0.273
31	Total-tetradioxins	23.92	1.047e3	1.465e3	1.099	0.72	0.77	17.1	YES	NO	bb	bd	0.382
32	1368-TCDD	23.64	1.491e3	2.260e3	1.084	0.66	0.77	26.8	YES	NO	bb	bb	0.578
33	Total-Dioxins	21.65	1.053e2	1.236e2	1.165	0.85	0.77	2.4	NO	NO	bb	bb	0.033
34	Total-tetradioxins	26.65	4.640e2	5.863e2	1.099	0.79	0.77	7.6	YES	NO	db	db	0.160
35	Total-tetradioxins	26.14	5.652e2	6.867e2	1.099	0.82	0.77	5.8	YES	NO	bb	bb	0.190
36	Total-tetradioxins	25.70	2.568e2	3.709e2	1.099	0.69	0.77	4.3	YES	NO	bb	bb	0.095
37	Total-pentadioxins	30.04	1.990e3	1.238e3	1.392	1.61	1.55	18.5	YES	NO	bb	bb	0.484

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	123789-HxCDD	36.63	5.641e3	4.911e3	0.985	1.15	1.24	56.2	YES	NO	bb	bb	1.755
39	Total-hexadioxins	36.41	1.622e3	1.307e3	1.007	1.24	1.24	15.5	YES	NO	db	db	0.477
40	123678-HxCDD	36.25	9.752e3	8.308e3	1.021	1.17	1.24	91.7	YES	NO	dd	dd	2.893
41	123478-HxCDD	36.13	2.413e3	2.092e3	0.987	1.15	1.24	24.6	YES	NO	bd	bd	0.751
42	Total-hexadioxins	35.36	2.129e3	1.878e3	1.007	1.13	1.24	23.3	YES	NO	db	db	0.653
43	Total-hexadioxins	35.25	3.046e4	2.487e4	1.007	1.23	1.24	203.4	YES	NO	bd	bd	9.013
44	Total-hexadioxins	34.88	5.279e3	3.944e3	1.007	1.34	1.24	53.0	YES	NO	bb	bb	1.502
45	124679-HXCDD	34.12	2.478e4	2.094e4	1.033	1.18	1.24	247.1	YES	NO	bb	bb	7.277
46	1234678-HpCDD	40.38	2.777e5	2.686e5	1.253	1.03	1.05	1662.3	YES	NO	bd	bb	103.264
47	1234679-HPCDD	39.32	3.425e5	3.274e5	1.286	1.05	1.05	2115.7	YES	NO	bb	bb	123.338
48	OCDD	45.16	1.763e6	2.015e6	1.103	0.87	0.89	15437.1	YES	NO	bb	bb	870.395
49	Total-pentadioxins	28.97	5.073e3	2.944e3	1.392	1.72	1.55	32.3	YES	NO	MM	bb	1.201

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.24	9.649e5					45.6	YES		dd		
2	FUNCTION1 PFK	21.16	2.551e6					47.6	YES		bd		
3	FUNCTION1 PFK	28.03	6.334e5					5.2	YES		bb		
4	FUNCTION1 PFK	27.70	3.406e5					8.9	YES		db		
5	FUNCTION1 PFK	27.51	1.634e5					3.7	YES		bd		
6	FUNCTION1 PFK	24.07	5.277e3					0.7	NO		bb		
7	FUNCTION1 PFK	23.46	3.588e3					0.7	NO		bb		
8	FUNCTION1 PFK	22.78	7.306e5					3.8	YES		db		
9	FUNCTION1 PFK	22.42	1.342e6					14.7	YES		dd		
10	FUNCTION1 PFK	22.25	2.626e5					16.6	YES		bd		
11	FUNCTION1 PFK	22.10	5.350e5					24.5	YES		db		
12	FUNCTION1 PFK	21.92	2.416e6					30.2	YES		dd		
13	FUNCTION1 PFK	21.80	8.581e5					33.1	YES		dd		
14	FUNCTION1 PFK	21.72	1.535e6					36.3	YES		dd		
15	FUNCTION1 PFK	21.54	2.782e6					40.2	YES		dd		
16	FUNCTION1 PFK	21.32	2.315e6					45.1	YES		dd		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.30	7.002e5					35.4	YES		bd		0.000
2	FUNCTION2 PFK	29.66	4.096e5					19.1	YES		dd		0.000
3	FUNCTION2 PFK	29.63	2.824e5					19.1	YES		dd		0.000
4	FUNCTION2 PFK	29.56	1.931e5					20.2	YES		dd		0.000
5	FUNCTION2 PFK	29.49	3.327e5					20.2	YES		dd		0.000
6	FUNCTION2 PFK	29.36	5.688e5					23.1	YES		dd		0.000
7	FUNCTION2 PFK	29.29	3.538e5					23.8	YES		dd		0.000
8	FUNCTION2 PFK	29.20	4.963e5					25.6	YES		dd		0.000
9	FUNCTION2 PFK	28.95	2.107e6					28.2	YES		dd		0.000
10	FUNCTION2 PFK	28.77	7.580e5					31.2	YES		dd		0.000
11	FUNCTION2 PFK	28.68	4.726e5					31.8	YES		dd		0.000
12	FUNCTION2 PFK	28.61	4.027e5					32.5	YES		dd		0.000
13	FUNCTION2 PFK	28.58	5.874e5					33.5	YES		dd		0.000
14	FUNCTION2 PFK	28.49	5.159e5					34.5	YES		dd		0.000
15	FUNCTION2 PFK	28.44	3.480e5					34.8	YES		dd		0.000
16	FUNCTION2 PFK	28.39	4.276e5					34.7	YES		dd		0.000
17	FUNCTION2 PFK	28.33	2.604e5					35.1	YES		dd		0.000
18	FUNCTION2 PFK	30.79	4.167e4					4.4	YES		dd		0.000
19	FUNCTION2 PFK	30.76	2.854e4					4.0	YES		dd		0.000
20	FUNCTION2 PFK	30.71	6.248e4					5.6	YES		dd		0.000
21	FUNCTION2 PFK	30.66	5.560e4					5.8	YES		dd		0.000
22	FUNCTION2 PFK	30.59	1.447e5					7.0	YES		dd		0.000
23	FUNCTION2 PFK	30.48	1.078e5					7.9	YES		dd		0.000
24	FUNCTION2 PFK	30.43	2.478e5					9.2	YES		dd		0.000
25	FUNCTION2 PFK	30.30	1.520e5					10.6	YES		dd		0.000
26	FUNCTION2 PFK	30.23	1.912e5					11.5	YES		dd		0.000
27	FUNCTION2 PFK	30.16	1.478e5					12.3	YES		dd		0.000
28	FUNCTION2 PFK	30.12	1.645e5					13.9	YES		dd		0.000
29	FUNCTION2 PFK	30.07	1.271e5					12.8	YES		dd		0.000
30	FUNCTION2 PFK	29.99	3.542e5					14.9	YES		dd		0.000
31	FUNCTION2 PFK	29.89	2.296e5					15.9	YES		dd		0.000
32	FUNCTION2 PFK	29.85	2.050e5					16.5	YES		dd		0.000
33	FUNCTION2 PFK	29.76	2.538e5					17.3	YES		dd		0.000
34	FUNCTION2 PFK	32.20	3.132e4					1.8	NO		dd		0.000
35	FUNCTION2 PFK	32.14	6.365e3					0.9	NO		dd		0.000
36	FUNCTION2 PFK	32.08	2.250e4					1.8	NO		dd		0.000
37	FUNCTION2 PFK	32.00	1.293e4					1.5	NO		dd		0.000

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	31.94	2.667e4					1.3	NO		dd		0.000
39	FUNCTION2 PFK	31.82	6.050e3					1.1	NO		bd		0.000
40	FUNCTION2 PFK	31.73	5.674e3					0.4	NO		db		0.000
41	FUNCTION2 PFK	31.64	8.775e3					1.0	NO		bd		0.000
42	FUNCTION2 PFK	31.53	7.253e3					1.1	NO		bb		0.000
43	FUNCTION2 PFK	31.34	1.191e3					0.5	NO		bb		0.000
44	FUNCTION2 PFK	31.28	5.618e3					0.7	NO		bb		0.000
45	FUNCTION2 PFK	31.15	4.521e2					0.2	NO		bb		0.000
46	FUNCTION2 PFK	31.07	5.456e3					1.1	NO		bb		0.000
47	FUNCTION2 PFK	30.97	1.737e4					1.6	NO		db		0.000
48	FUNCTION2 PFK	30.90	2.201e4					2.4	NO		dd		0.000
49	FUNCTION2 PFK	30.88	2.880e4					2.3	NO		dd		0.000
50	FUNCTION2 PFK	32.83	5.718e3					1.0	NO		bb		0.000
51	FUNCTION2 PFK	32.62	8.992e3					1.2	NO		db		0.000
52	FUNCTION2 PFK	32.54	1.457e4					1.5	NO		dd		0.000
53	FUNCTION2 PFK	32.47	6.166e3					0.9	NO		dd		0.000
54	FUNCTION2 PFK	32.39	2.843e4					1.9	NO		bd		0.000
55	FUNCTION2 PFK	32.29	1.866e4					1.4	NO		db		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.39	6.003e5					16.0	YES		db		0.000
2	FUNCTION3 PFK	37.11	1.361e6					36.8	YES		bd		0.000
3	FUNCTION3 PFK	36.87	1.317e6					51.4	YES		db		0.000
4	FUNCTION3 PFK	36.73	1.940e6					53.7	YES		bd		0.000
5	FUNCTION3 PFK	36.18	2.388e6					29.1	YES		bb		0.000
6	FUNCTION3 PFK	35.05	7.056e4					5.1	YES		bb		0.000
7	FUNCTION3 PFK	33.07	8.179e4					7.1	YES		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.08	2.231e4					3.9	YES		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.92	1.008e2					2.3	NO		bb		0.000
2	FUNCTION1 HXCD...	26.03	3.212e2					11.1	YES		db		0.000
3	FUNCTION1 HXCD...	25.94	8.676e1					2.8	NO		dd		0.000
4	FUNCTION1 HXCD...	25.90	1.330e2					3.4	YES		bd		0.000
5	FUNCTION1 HXCD...	23.90	1.661e2					3.9	YES		bb		0.000
6	FUNCTION1 HXCD...	22.42	5.464e2					9.8	YES		db		0.000
7	FUNCTION1 HXCD...	22.28	3.492e2					6.8	YES		bd		0.000
8	FUNCTION1 HXCD...	21.83	1.215e2					2.7	NO		bb		0.000
9	FUNCTION1 HXCD...	21.47	8.012e1					3.7	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	23.48	2.635e3					72.3	YES		bb		0.000
2	FUNCTION1 HPCD...	22.42	1.433e2					5.0	YES		bb		0.000
3	FUNCTION1 HPCD...	22.16	4.814e3					146.0	YES		bb		0.000
4	FUNCTION1 HPCD...	21.71	7.086e1					3.8	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.30	1.207e2					2.4	NO		bb		0.000
2	FUNCTION2 HPCD...	31.63	9.676e1					2.0	NO		bb		0.000
3	FUNCTION2 HPCD...	30.00	9.056e1					2.9	NO		bb		0.000
4	FUNCTION2 HPCD...	29.24	7.213e1					1.3	NO		bb		0.000
5	FUNCTION2 HPCD...	29.06	1.306e2					4.3	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.03	8.561e1					4.8	YES		bb		0.000

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ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.52	5.194e3					117.7	YES		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	46.29	1.089e2					1.8	NO		bb		0.000

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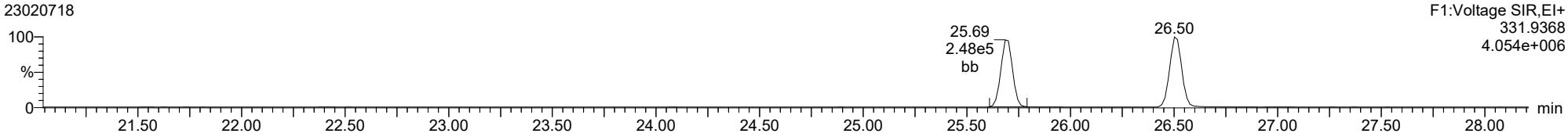
13C-1234-TCDD



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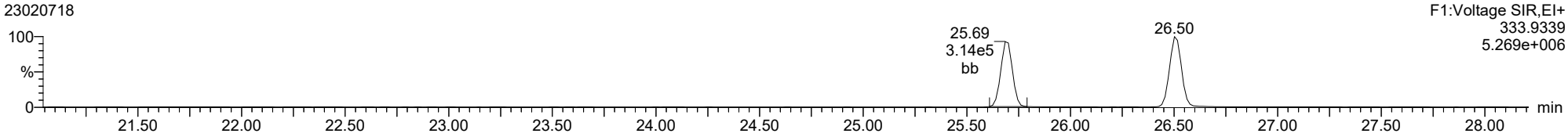

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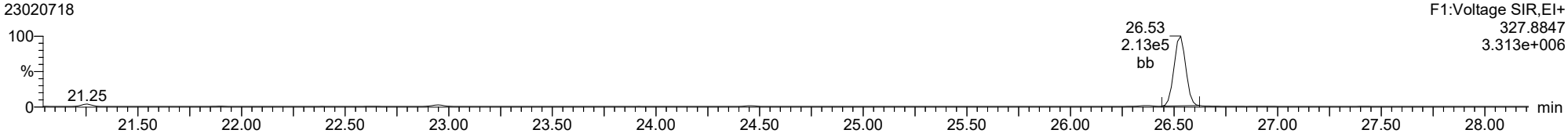

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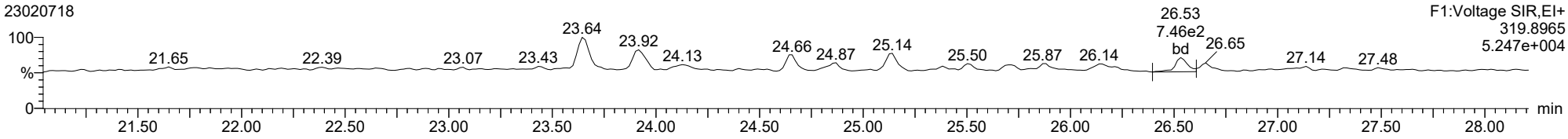
2378-TCDD



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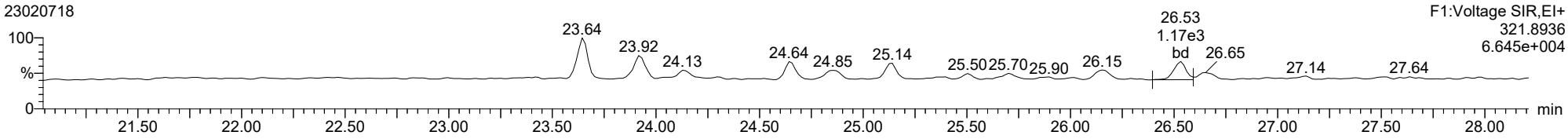

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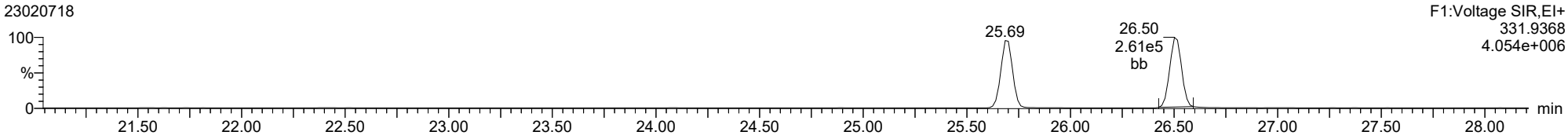

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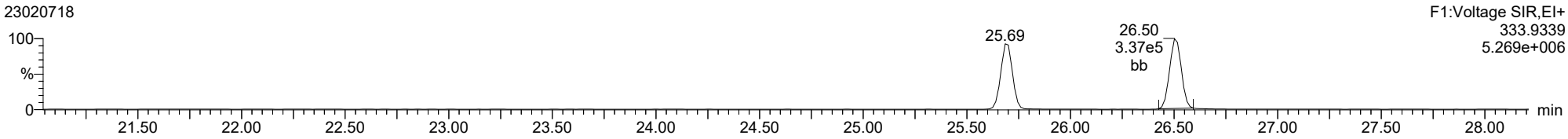

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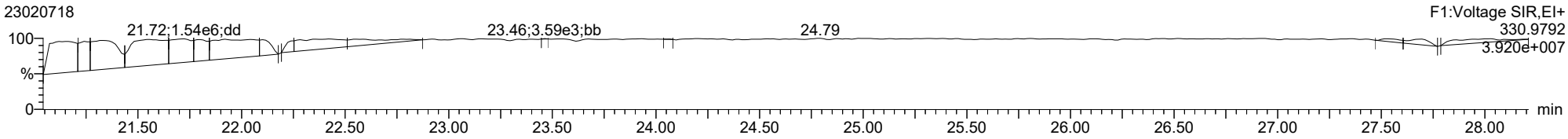

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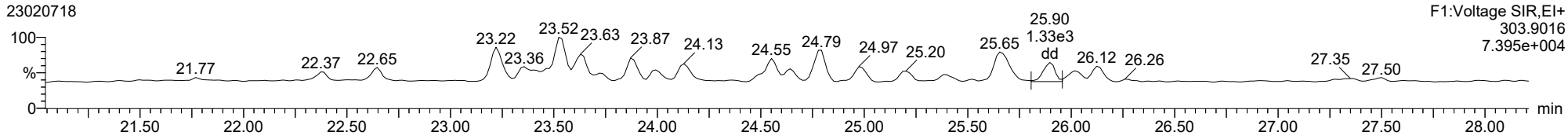
2378-TCDF



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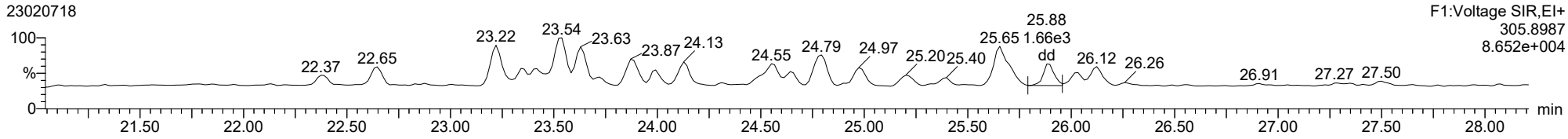

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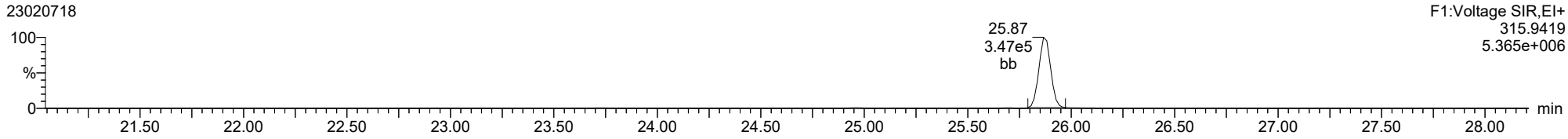

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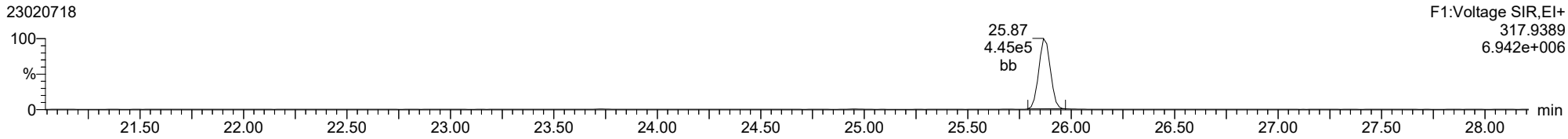

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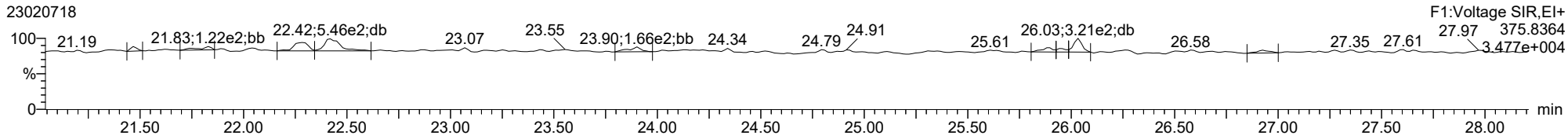

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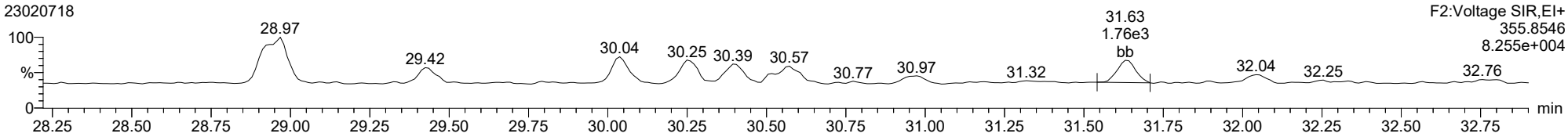
12378-PeCDD



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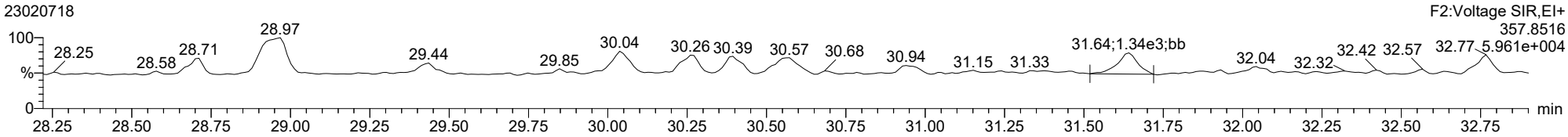

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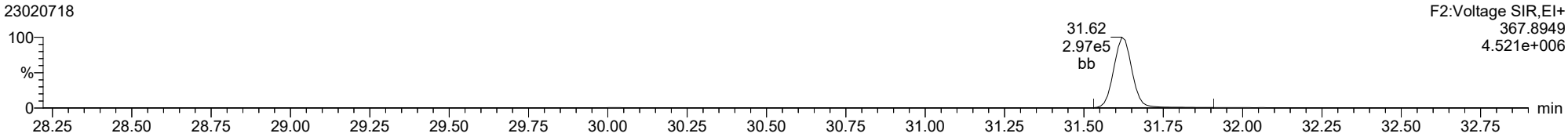

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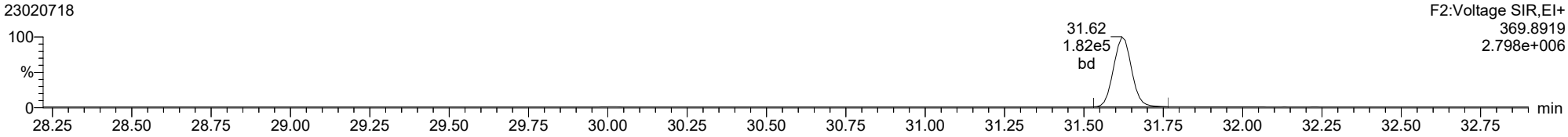

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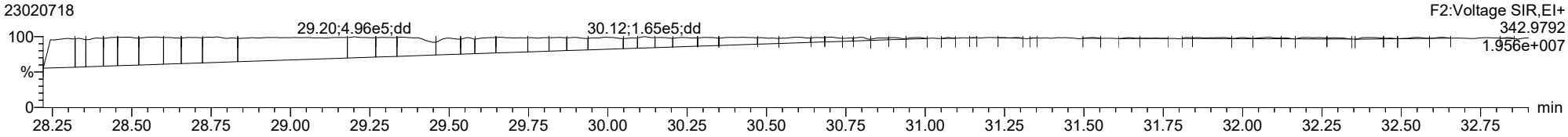

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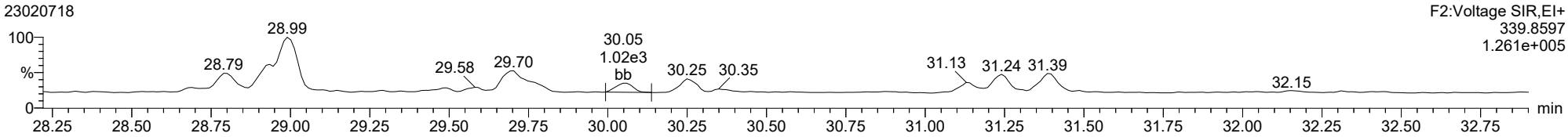

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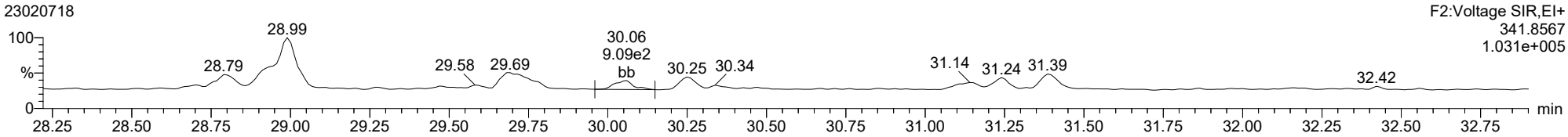

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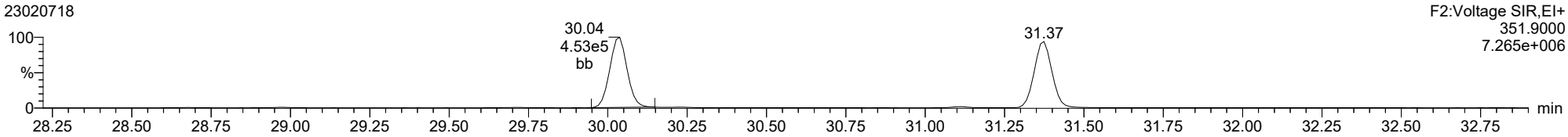

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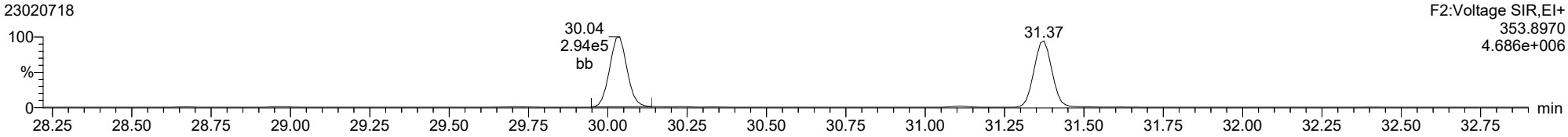

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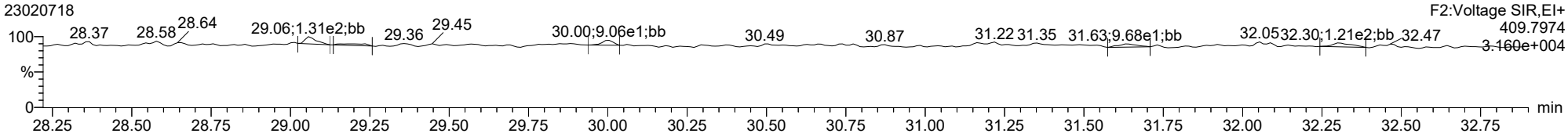

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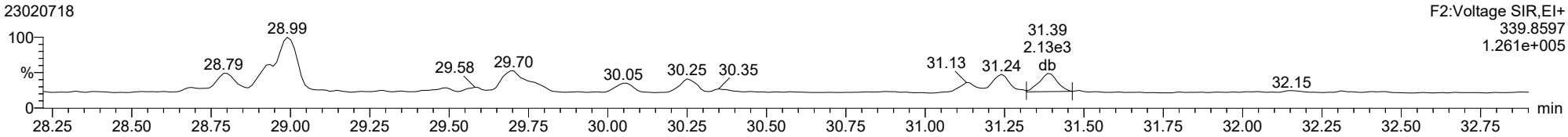
23478-PeCDF



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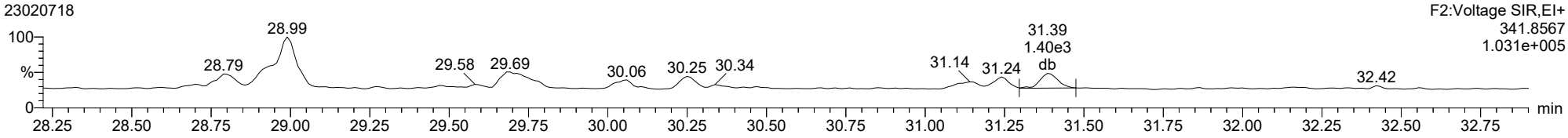

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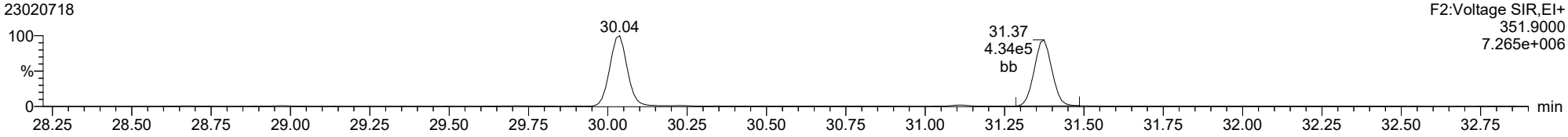

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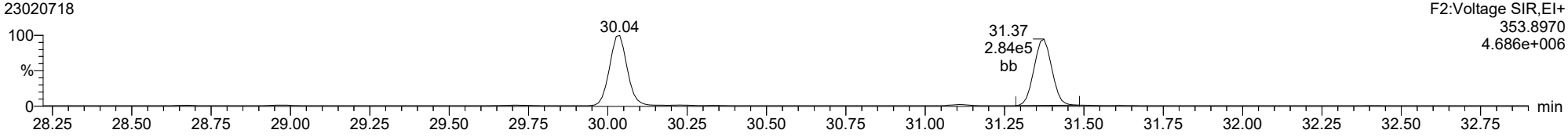

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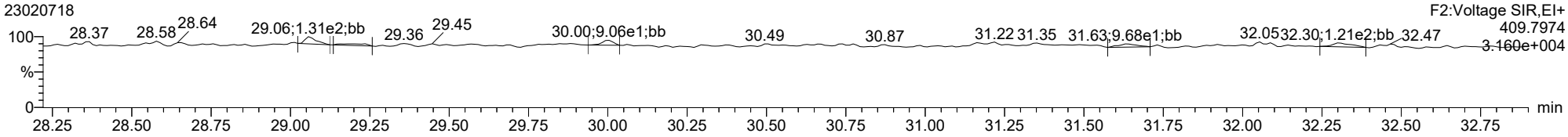

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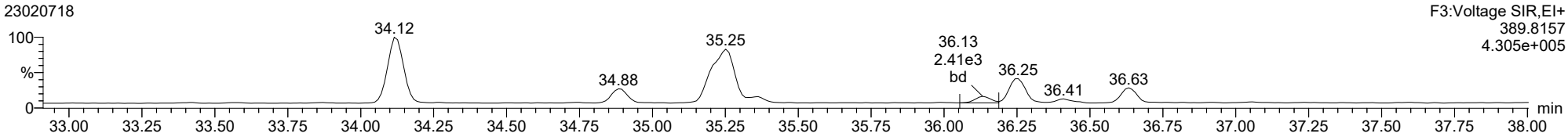

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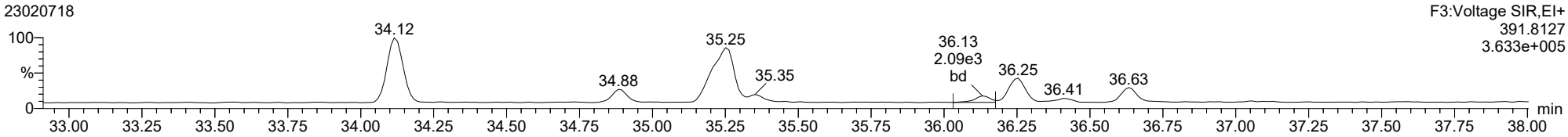

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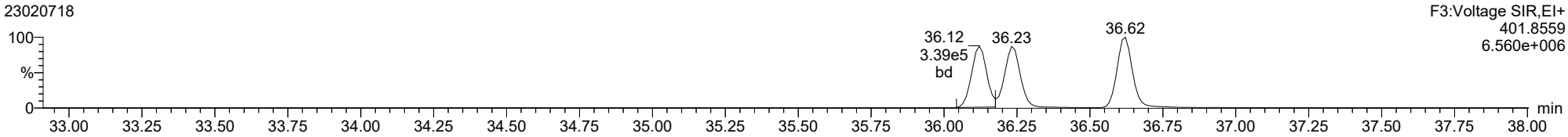

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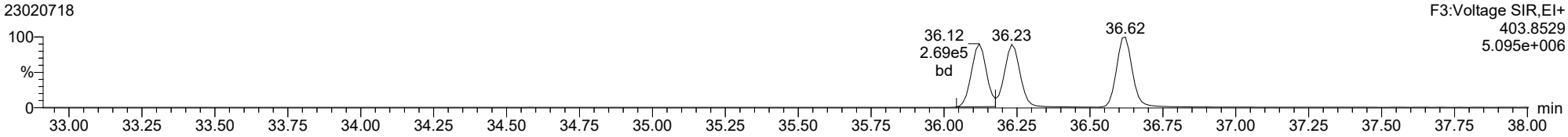

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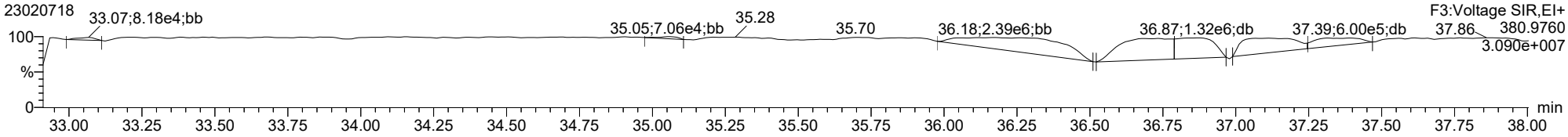

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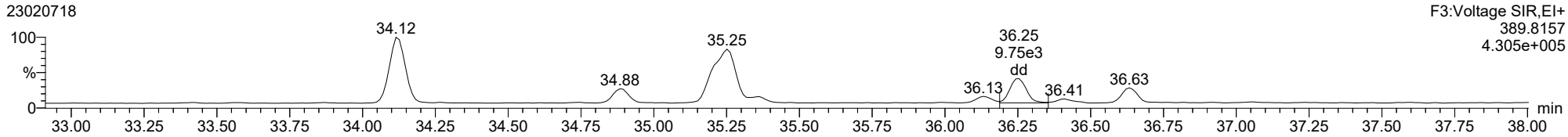

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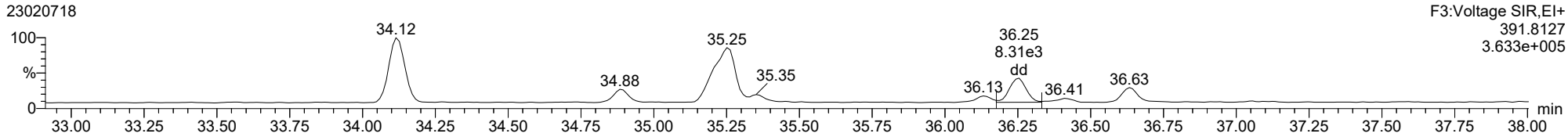

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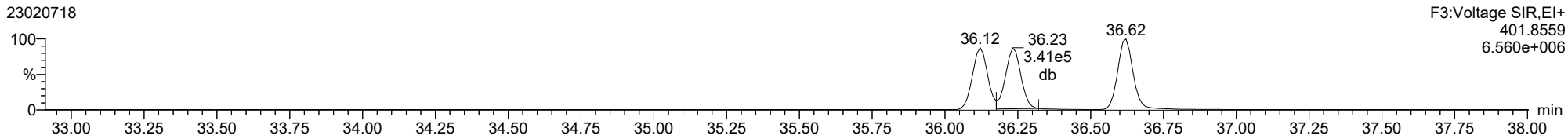

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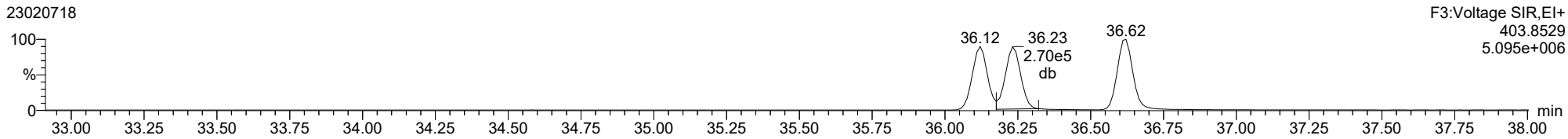

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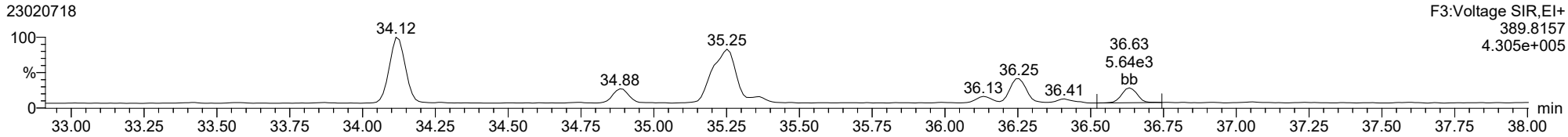

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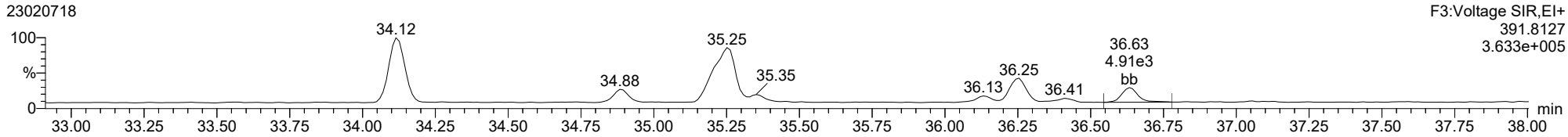

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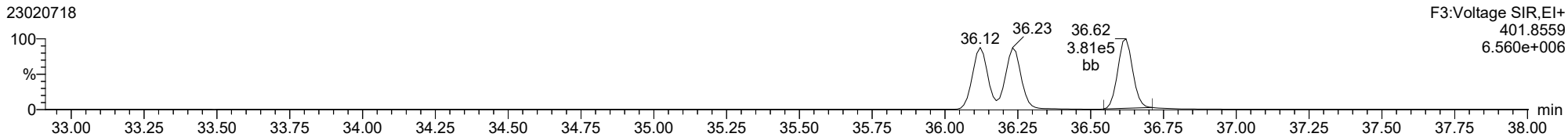

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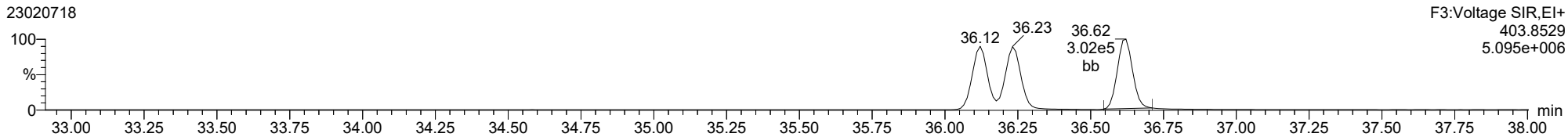

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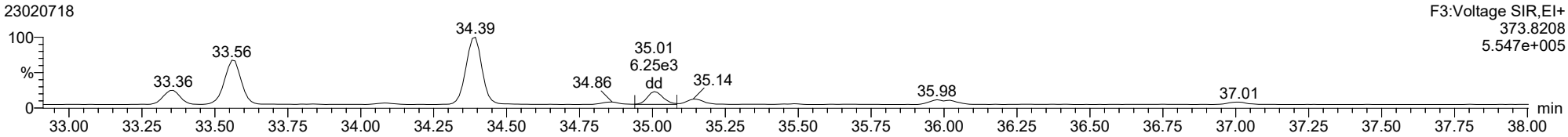

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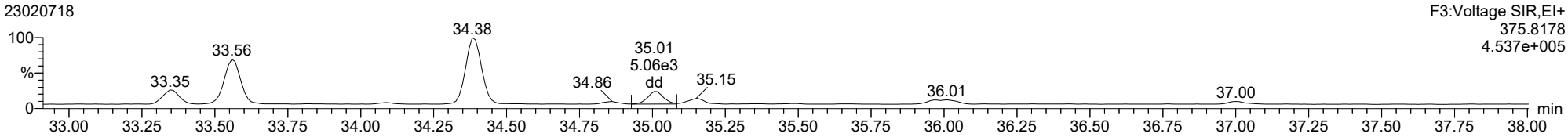

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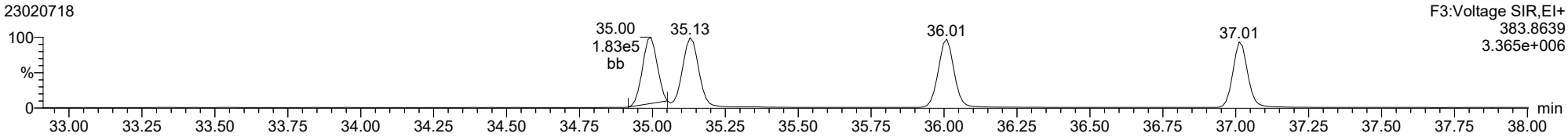

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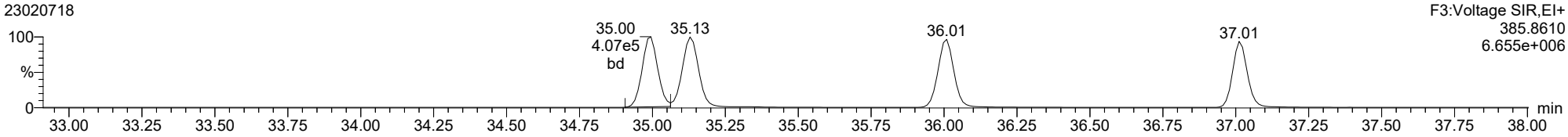

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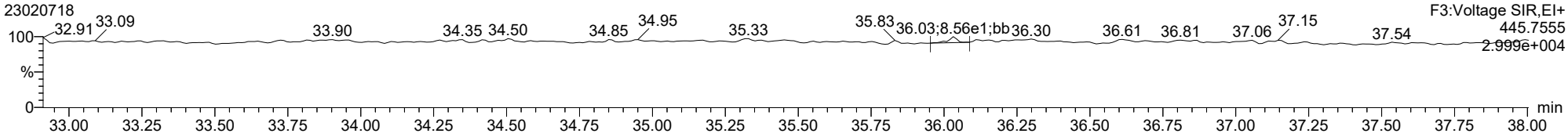

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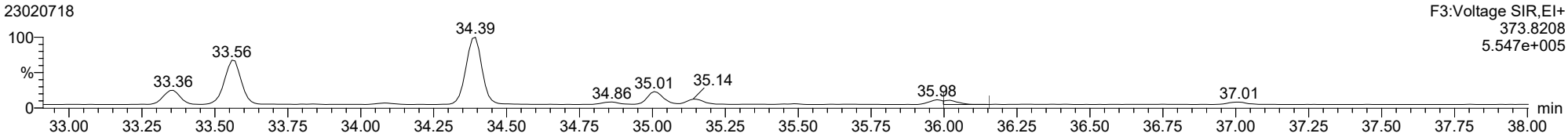

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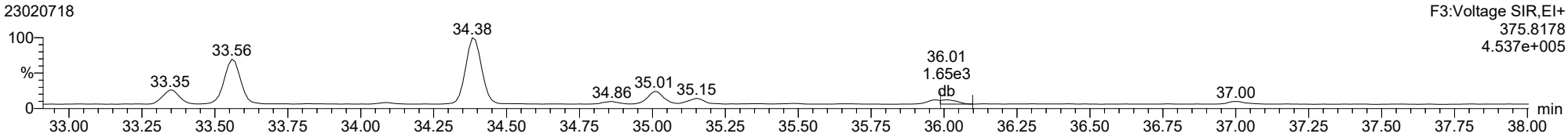

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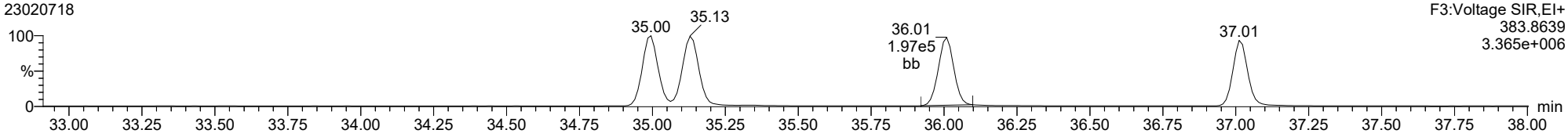

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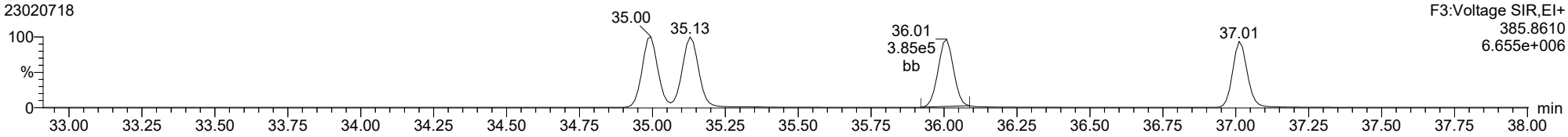
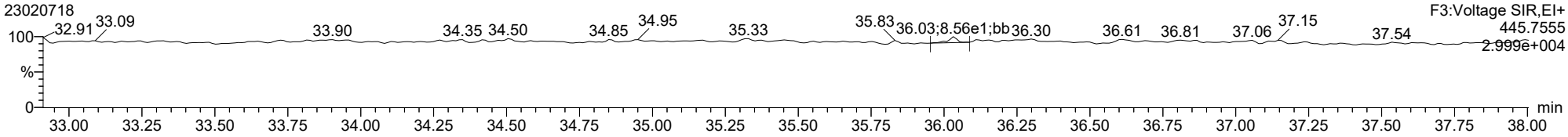


FUNCTION3 OCDPE



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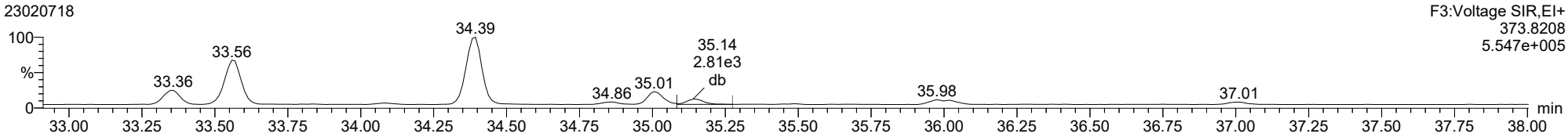

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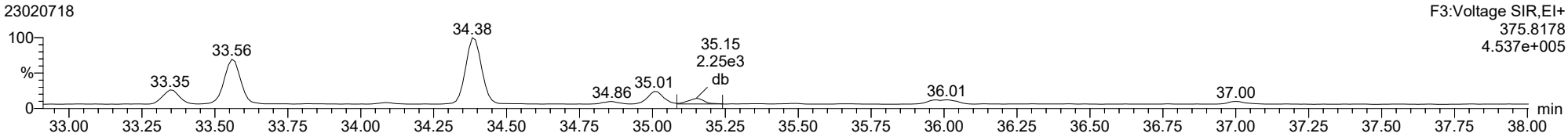

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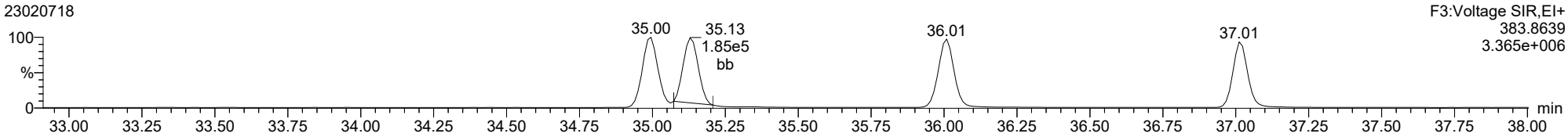

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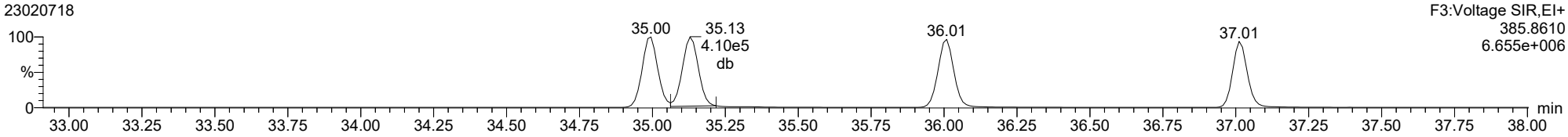

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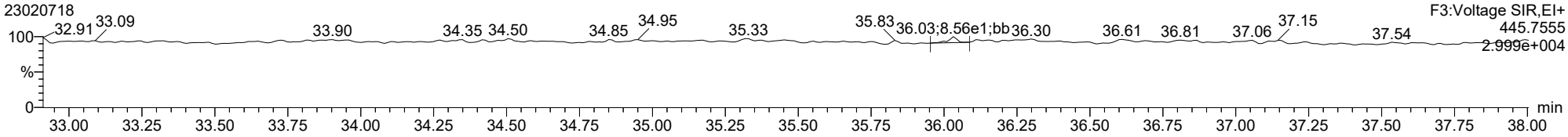

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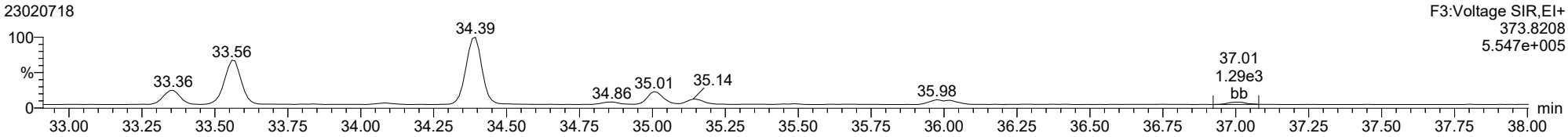

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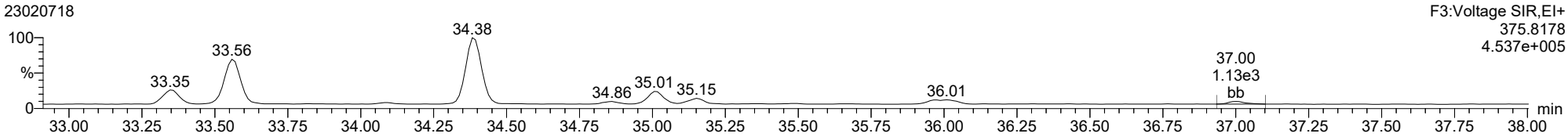

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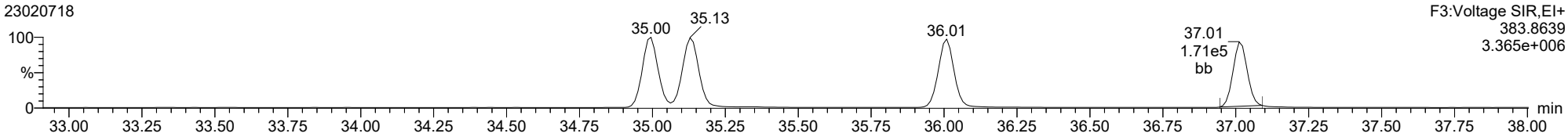

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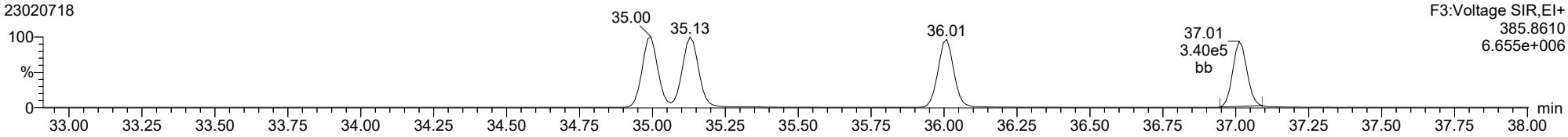
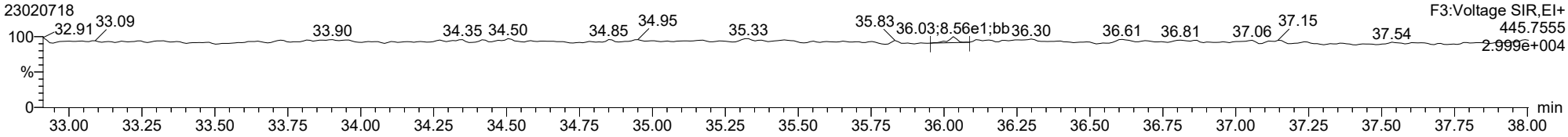


FUNCTION3 OCDPE



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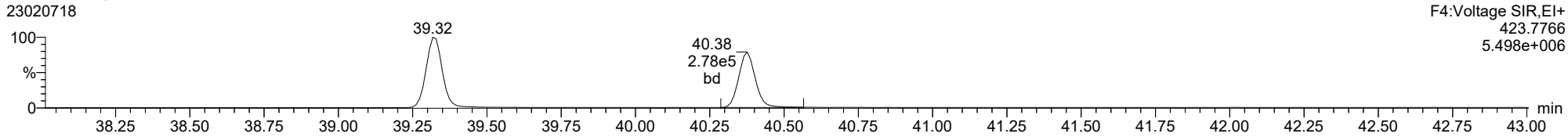

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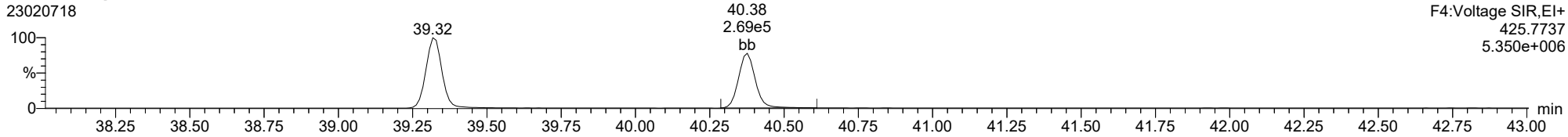

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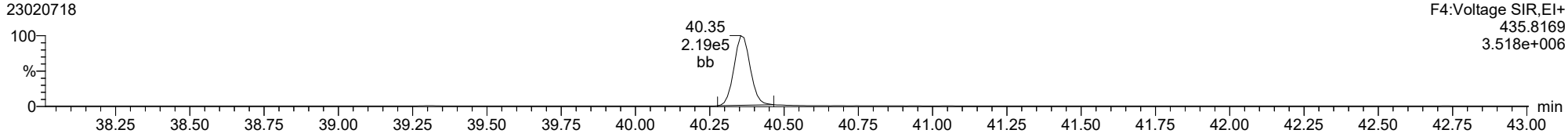

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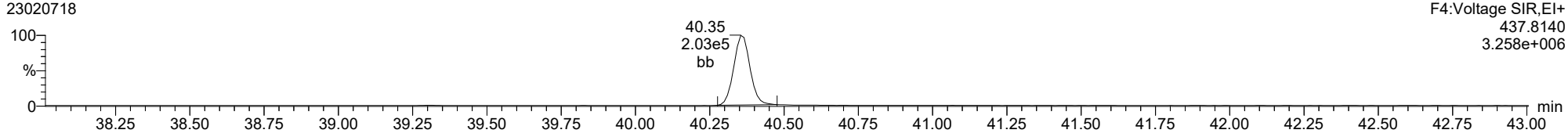
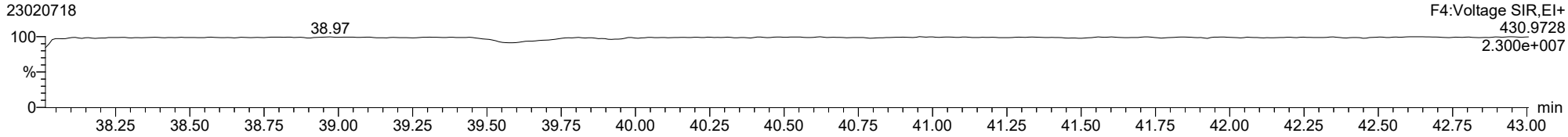


FUNCTION4 PFK



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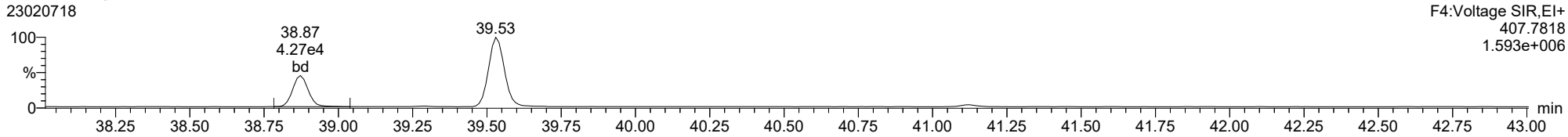

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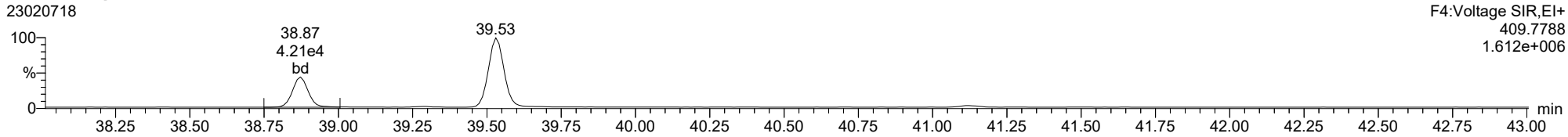

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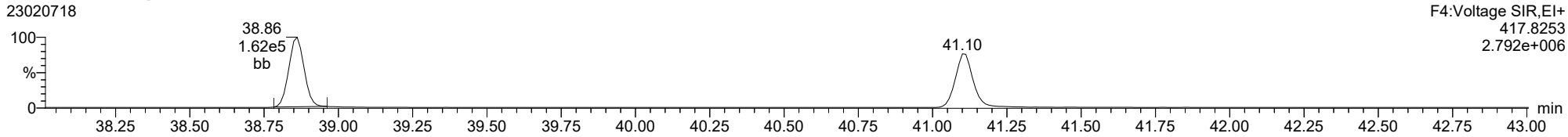

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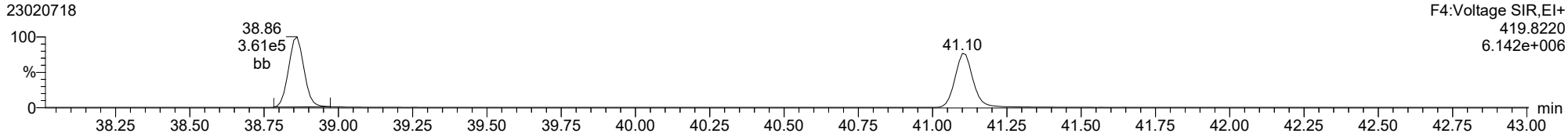

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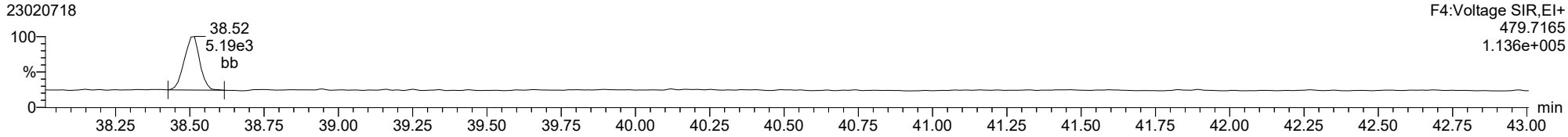

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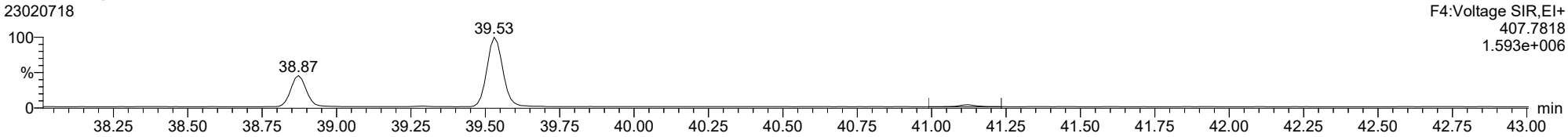

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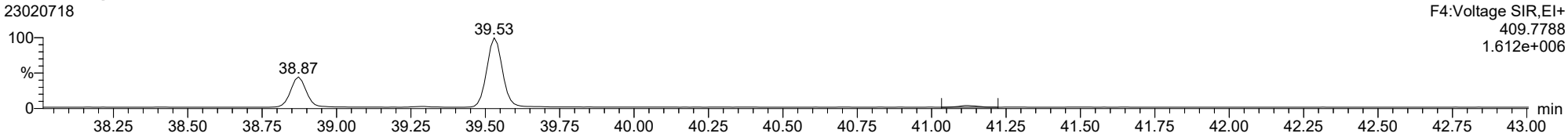

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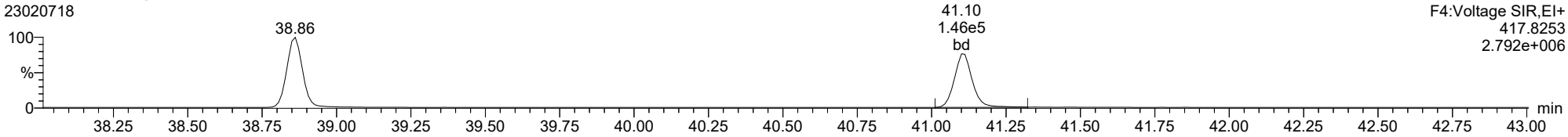

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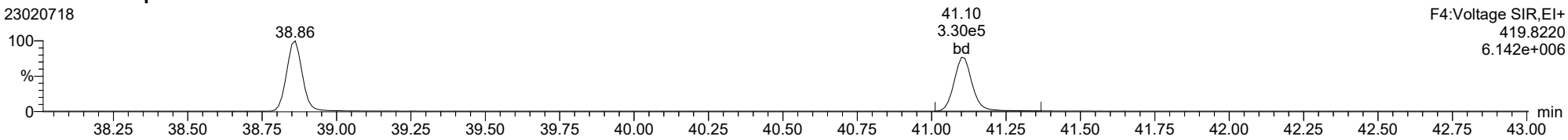

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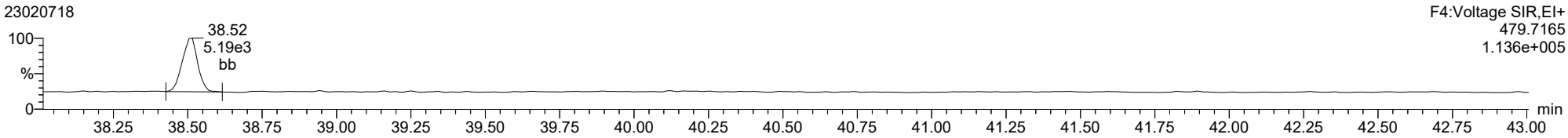

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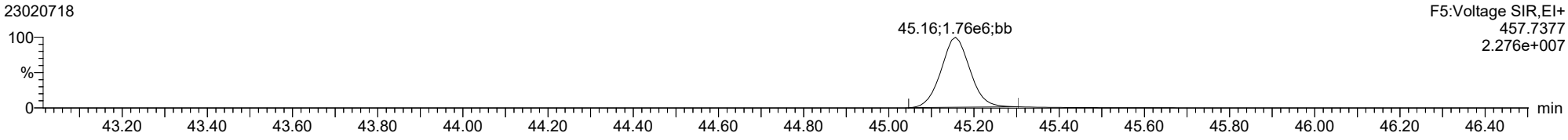

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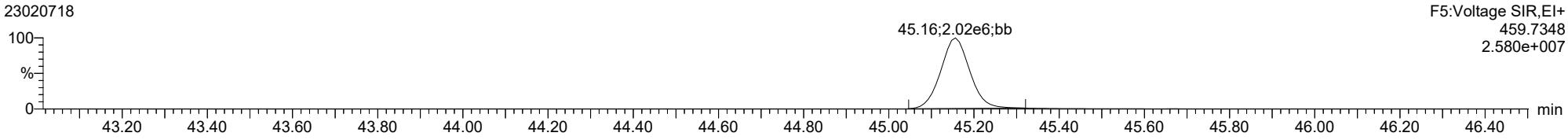

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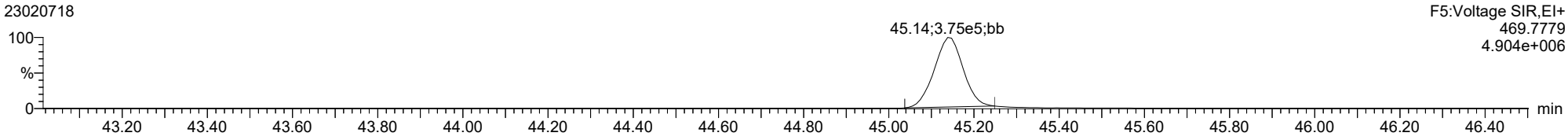

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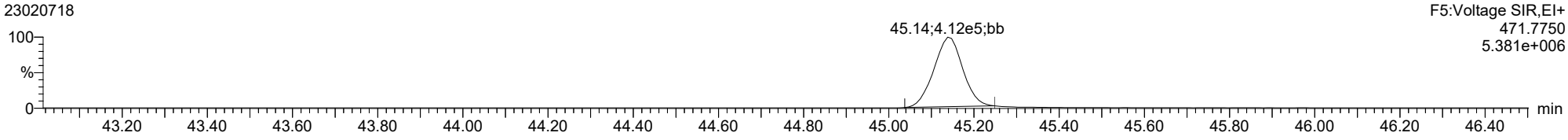
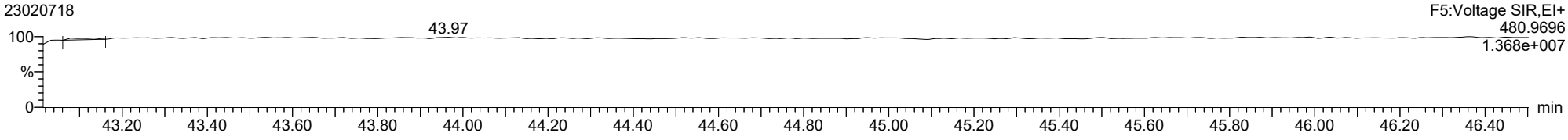


FUNCTION5 PFK



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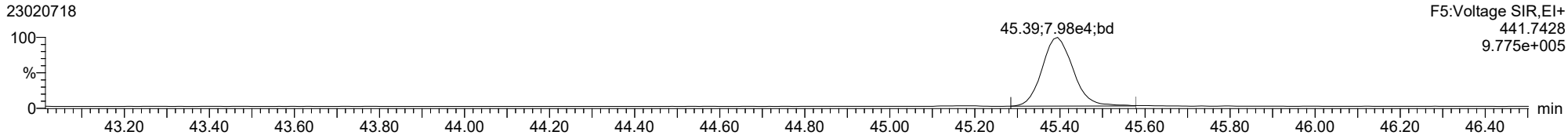
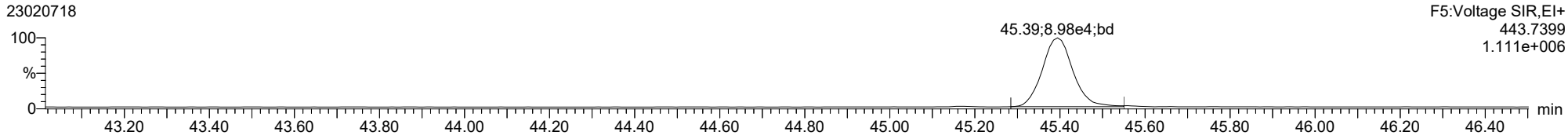
Printed: Wednesday, February 08, 2023 09:32:06 Pacific Standard Time

ID: 22L0459-02, Name: 23020718, Date: 07-Feb-2023, Time: 23:07:07, Conditions: AUTOSPEC01, User: pk

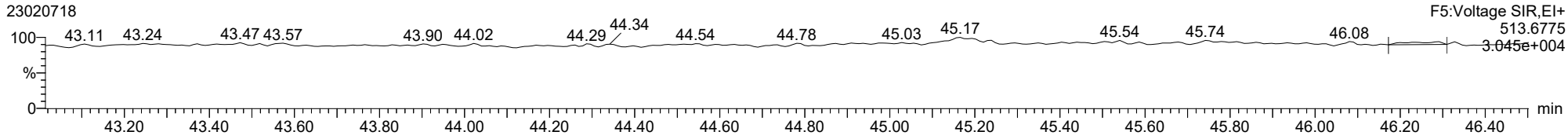
OCDF



OCDF



FUNCTION5 DCDPE



ID: 22L0459-02, Name: 23020718, Date: 07-Feb-2023, Time: 23:07:07, Conditions: AUTOSPEC01, User: pk

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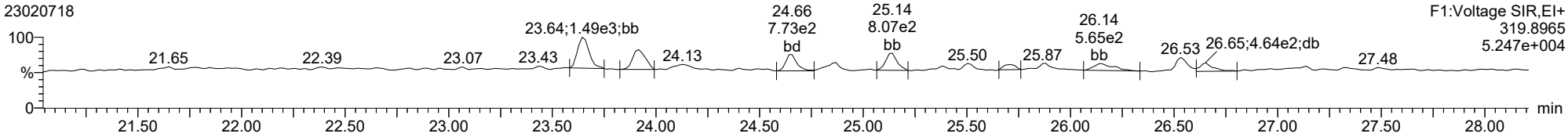
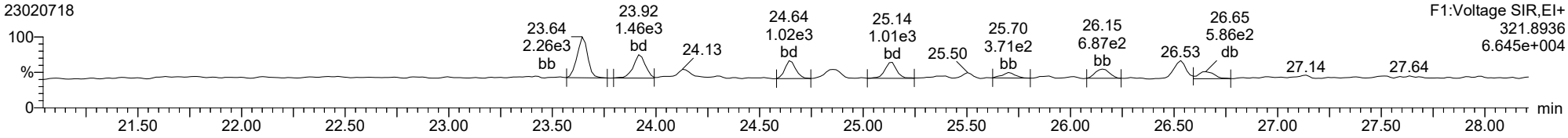
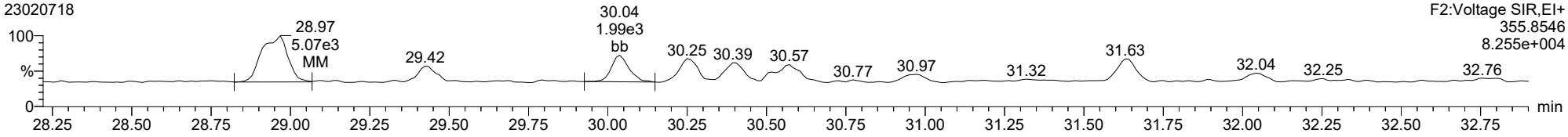


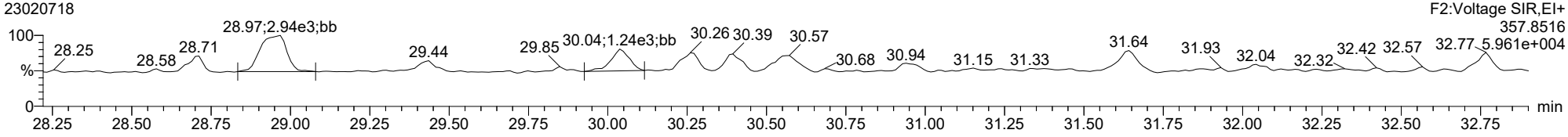
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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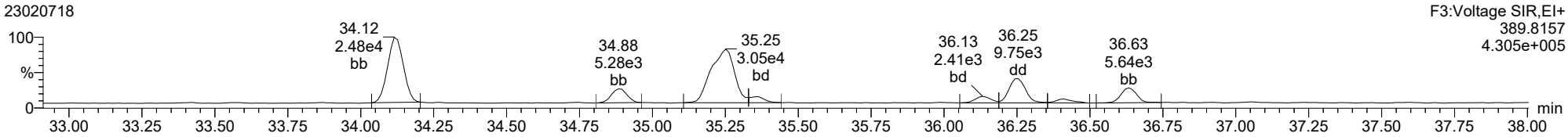

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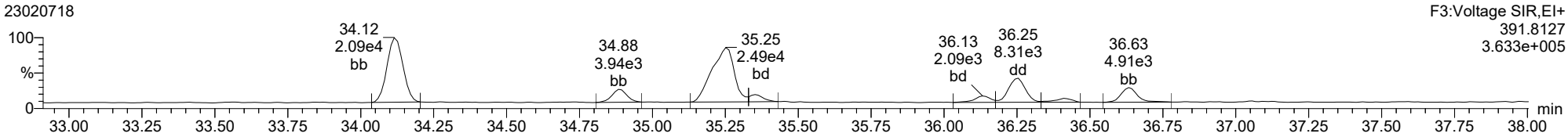

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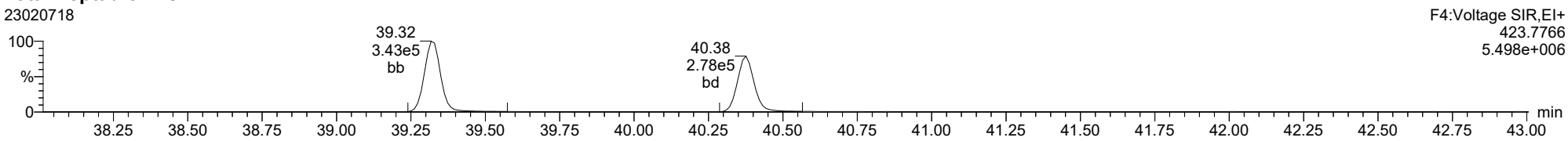

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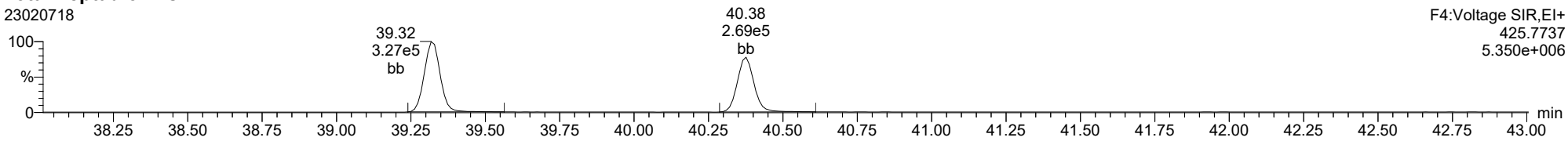

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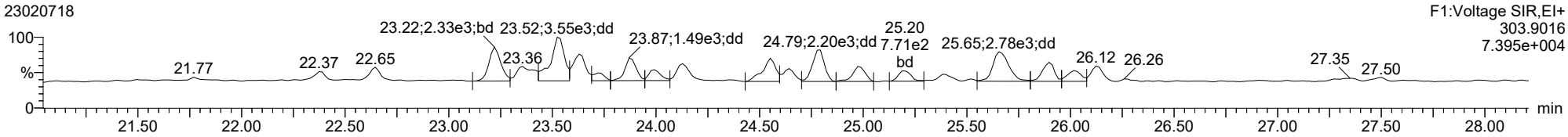
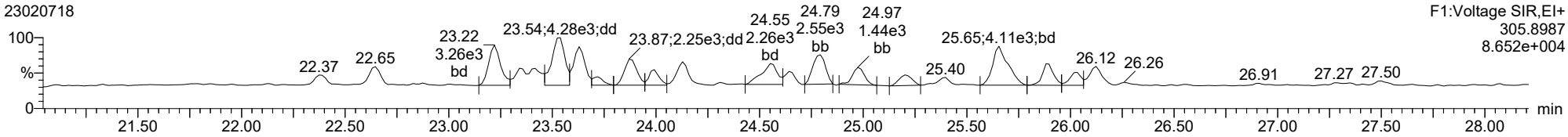
ID: 22L0459-02, Name: 23020718, Date: 07-Feb-2023, Time: 23:07:07, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



Total-tetrafurans



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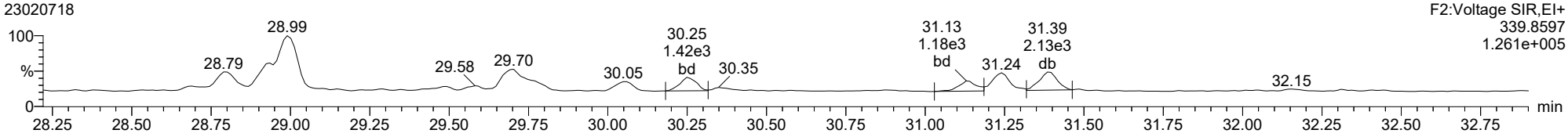
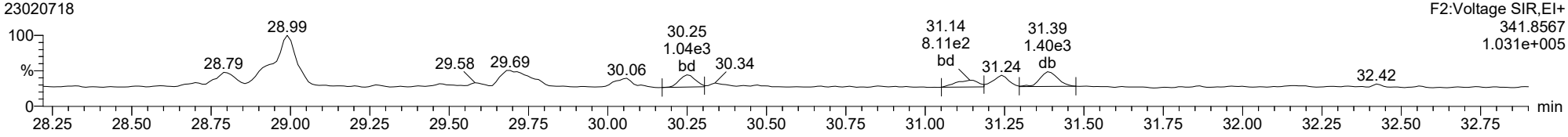
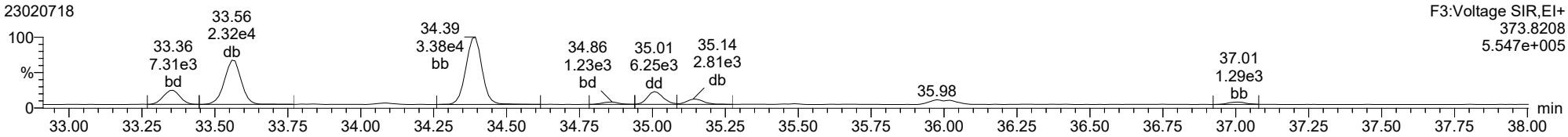


Total-pentafurans



ID: 22L0459-02, Name: 23020718, Date: 07-Feb-2023, Time: 23:07:07, Conditions: AUTOSPEC01, User: pk

Total-hexafurans



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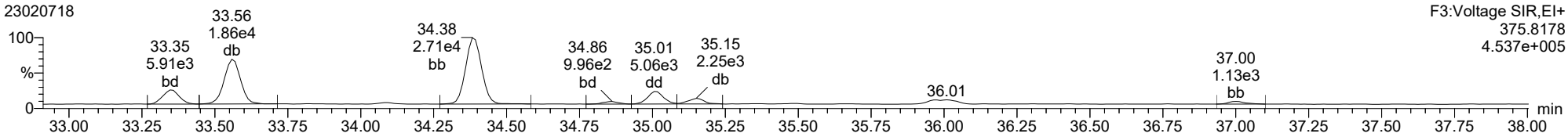

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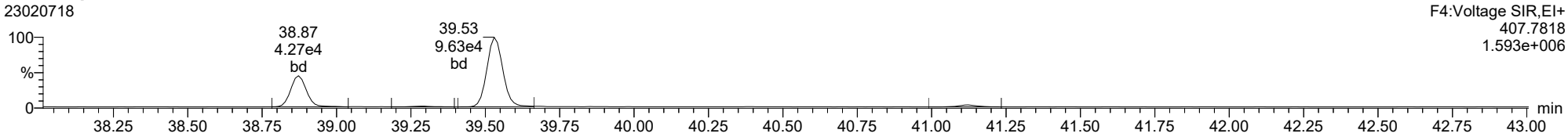

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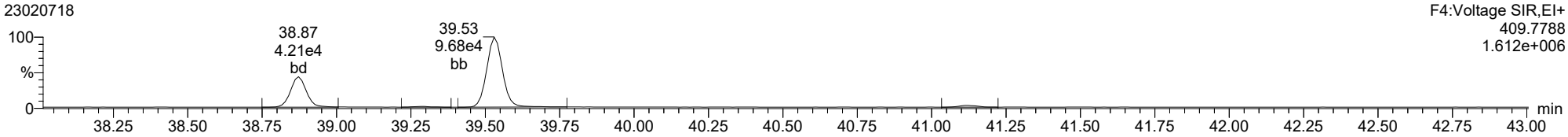

LDW23-SC1070B

Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-06 A	File ID:	23020719
Sampled:	12/16/22 12:01	Prepared:	01/09/23 15:50	Analyzed:	02/07/23 23:56
% Solids:	54.78	Preparation:	EPA 1613	Initial/Final:	18.31 g Wet / 20 uL
Result Basis:	Dry	Sequence:	SLB0072	Calibration:	GB00010
Batch:	BLA0079	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.814	0.655-0.886	0.130	0.997	2.19	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1	0.587	0.655-0.886	0.131	0.997	1.13	ng/kg	EMPC
57117-41-6	1,2,3,7,8-PeCDF	1	1.494	1.318-1.783	0.329	0.997	2.47	ng/kg	
57117-31-4	2,3,4,7,8-PeCDF	1	1.620	1.318-1.783	0.318	0.997	5.64	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.284	1.318-1.783	0.421	0.997	2.86	ng/kg	EMPC, B
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.242	1.054-1.426	0.123	0.997	27.1	ng/kg	B
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.162	1.054-1.426	0.118	0.997	7.25	ng/kg	B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.175	1.054-1.426	0.123	0.997	10.1	ng/kg	B
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.269	1.054-1.426	0.135	0.997	4.24	ng/kg	B
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.950	1.054-1.426	0.360	0.997	3.07	ng/kg	EMPC
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.142	1.054-1.426	0.343	0.997	17.1	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.199	1.054-1.426	0.358	0.997	8.00	ng/kg	B
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.028	0.893-1.208	0.272	0.997	194	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.064	0.893-1.208	0.376	0.997	17.3	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.058	0.893-1.208	0.614	2.49	549	ng/kg	B
39001-02-0	OCDF	1	0.889	0.757-1.024	0.354	2.49	749	ng/kg	B
3268-87-9	OCDD	1	0.877	0.757-1.024	0.507	9.97	4850	ng/kg	E, B
Homologue Groups									
55722-27-5	Total TCDF	1	0.000			0.997	93.5	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.997	7.50	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.997	111	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.997	13.2	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.997	247	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.997	115	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.997	800	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.997	1020	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 22.94
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 22.94

LDW23-SC1070B

Form 2

ORGANIC ANALYSIS DATA SHEET

EPA 1613B

Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	22L0459-06	File ID:	23020719
Sampled:	12/16/22 12:01	Prepared:	01/09/23 15:50	Analyzed:	02/07/23 23:56
Solids Wt%:	54.78	Preparation:	EPA 1613	Initial/Final:	18.31 g / 20 uL
Result Basis:	Dry	Sequence:	SLB0072	Calibration:	GB00010
Batch:	BLA0079	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.781	0.655-0.886	0.196	81.2	24 - 169 %	
13C12-2,3,7,8-TCDD		0.773	0.655-0.886	0.201	97.9	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.535	1.318-1.783	0.203	87.4	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.527	1.318-1.783	0.212	86.6	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.609	1.318-1.783	0.183	92.3	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.502	0.434-0.587	0.142	85.8	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.494	0.434-0.587	0.138	83.6	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.503	0.434-0.587	0.147	84.2	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.503	0.434-0.587	0.161	84.5	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.278	1.054-1.426	0.167	96.8	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.259	1.054-1.426	0.161	91.7	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.446	0.374-0.506	0.167	73.4	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.445	0.374-0.506	0.191	74.4	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.065	0.893-1.208	0.173	76.6	23 - 140 %	
13C12-OCDD		0.910	0.757-1.024	0.152	69.5	17 - 157 %	
37Cl4-2,3,7,8-TCDD		328.000		0.058	81.1	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:32:20 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0459-06, Name: 23020719, Date: 07-Feb-2023, Time: 23:56:36, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	3.291e3	4.044e3	0.876	0.814	0.770	954	1282	4.88e4	6.34e4	51.1	49.4	NO	bd	dd	1.099
12378-PeCDF	30.049	1.000	4.432e3	2.967e3	0.845	1.494	1.550	2105	3013	7.16e4	4.34e4	34.0	14.4	NO	bb	bb	1.237
23478-PeCDF	31.385	1.000	1.074e4	6.634e3	0.911	1.620	1.550	2105	3013	1.73e5	1.05e5	82.2	34.7	NO	db	db	2.830
123478-HxCDF	35.007	1.001	4.908e4	3.953e4	1.182	1.242	1.240	1104	1063	7.82e5	6.25e5	708.2	588.0	NO	dd	dd	13.576
234678-HxCDF	35.965	0.999	1.745e4	1.486e4	1.229	1.175	1.240	1104	1063	2.13e5	1.86e5	193.4	175.1	NO	bb	bb	5.040
123678-HxCDF	35.140	1.000	1.344e4	1.156e4	1.248	1.162	1.240	1104	1063	2.13e5	1.81e5	193.3	169.9	NO	db	db	3.634
123789-HxCDF	36.989	0.999	6.760e3	5.327e3	1.187	1.269	1.240	1104	1063	1.01e5	8.27e4	91.5	77.8	NO	bb	bb	2.128
1234678-HpCDF	38.873	1.000	2.753e5	2.677e5	1.204	1.028	1.050	2282	2056	4.62e6	4.45e6	2025.4	2162.8	NO	bd	bb	97.129
1234789-HpCDF	41.123	1.000	2.143e4	2.014e4	1.165	1.064	1.050	2282	2056	3.19e5	2.94e5	139.9	143.1	NO	bb	bb	8.683
OCDF	45.395	1.006	7.015e5	7.895e5	1.186	0.889	0.890	1570	1429	8.34e6	9.41e6	5314.3	6584.9	NO	bd	bd	375.538
2378-TCDD	26.517	1.001	1.490e3	2.537e3	1.236	0.587	0.770	975	1441	2.20e4	3.31e4	22.6	22.9	YES	bd	bd	0.569
12378-PeCDD	31.642	1.001	3.915e3	3.049e3	1.087	1.284	1.550	2416	2784	5.58e4	3.88e4	23.1	14.0	YES	bb	bb	1.432
123478-HxCDD	36.120	1.001	4.083e3	4.297e3	0.987	0.950	1.240	2183	3092	7.18e4	7.27e4	32.9	23.5	YES	bd	bd	1.539
123678-HxCDD	36.232	1.000	2.513e4	2.201e4	1.021	1.142	1.240	2183	3092	4.19e5	3.53e5	192.1	114.3	NO	db	dd	8.552
123789-HxCDD	36.622	1.011	1.176e4	9.811e3	0.985	1.199	1.240	2183	3092	2.00e5	1.63e5	91.5	52.8	NO	bb	bb	4.010
1234678-HpCDD	40.376	1.001	6.490e5	6.136e5	1.253	1.058	1.050	3528	3743	9.97e6	9.58e6	2825.7	2559.8	NO	bd	bb	275.514
OCDD	45.157	1.000	4.197e6	4.786e6	1.103	0.877	0.890	1440	2547	5.34e7	6.07e7	37065.2	23809.6	NO	bb	bb	2433.834
13C-2378-TCDF	25.867	1.007	3.340e5	4.279e5	1.768	0.781	0.770	3095	1597	5.15e6	6.62e6	1663.1	4143.8	NO	bb	bb	81.249
13C-12378-PeCDF	30.037	1.169	4.289e5	2.794e5	1.527	1.535	1.550	1580	2628	6.67e6	4.35e6	4222.2	1654.9	NO	bb	bb	87.438
13C-23478-PeCDF	31.374	1.221	4.072e5	2.667e5	1.466	1.527	1.550	1580	2628	6.39e6	4.18e6	4047.3	1591.2	NO	bb	bb	86.642
13C-123478-HxCDF	34.984	0.956	1.846e5	3.677e5	1.054	0.502	0.510	1219	1337	2.98e6	5.97e6	2442.0	4461.9	NO	bd	bd	85.841
13C-123678-HxCDF	35.129	0.960	1.823e5	3.689e5	1.080	0.494	0.510	1219	1337	2.92e6	5.80e6	2398.0	4337.8	NO	db	db	83.581
13C-234678-HxCDF	35.987	0.983	1.746e5	3.472e5	1.014	0.503	0.510	1219	1337	2.87e6	5.77e6	2352.1	4313.5	NO	bb	bb	84.234
13C-123789-HxCDF	37.012	1.011	1.603e5	3.185e5	0.928	0.503	0.510	1219	1337	2.71e6	5.42e6	2226.1	4054.7	NO	bb	bb	84.498
13C-1234678-HpCDF	38.861	1.061	1.433e5	3.210e5	1.036	0.446	0.440	1431	1522	2.45e6	5.42e6	1709.2	3561.7	NO	bb	bb	73.379
13C-1234789-HpCDF	41.112	1.123	1.266e5	2.843e5	0.905	0.445	0.440	1431	1522	1.82e6	4.05e6	1273.1	2658.7	NO	bd	bd	74.357
13C-1234-TCDD	25.685	0.000	2.331e5	2.973e5	1.000	0.784	0.770	1878	1123	3.56e6	4.59e6	1896.7	4087.0	NO	bb	bb	100.000
13C-2378-TCDD	26.502	1.032	2.497e5	3.230e5	1.103	0.773	0.770	1878	1123	3.90e6	5.05e6	2076.7	4496.9	NO	bb	bb	97.882
13C-12378-PeCDD	31.619	1.231	2.759e5	1.715e5	0.914	1.609	1.550	1072	1190	4.19e6	2.64e6	3914.7	2218.0	NO	bd	bb	92.280
13C-123478-HxCDD	36.098	0.986	3.094e5	2.422e5	0.933	1.278	1.240	1540	1123	4.98e6	3.90e6	3234.9	3472.8	NO	bd	bd	96.817
13C-123678-HxCDD	36.221	0.989	3.011e5	2.390e5	0.965	1.259	1.240	1540	1123	5.03e6	4.01e6	3264.0	3568.3	NO	db	db	91.689
13C-1234678-HpCDD	40.354	1.102	1.887e5	1.771e5	0.782	1.065	1.050	1174	1139	2.92e6	2.74e6	2484.8	2408.9	NO	bb	bb	76.620
13C-OCDD	45.138	1.233	3.189e5	3.505e5	0.788	0.910	0.890	1115	938	4.07e6	4.46e6	3646.3	4751.5	NO	bb	bb	139.073
13C-123789-HxCDD	36.611	0.000	3.402e5	2.705e5	1.000	1.258	1.240	1540	1123	5.70e6	4.56e6	3701.2	4065.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.033	2.124e5		1.233			964		3.25e6		3370.9			bb		32.458

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:32:20 Pacific Standard Time

ID: 22L0459-06, Name: 23020719, Date: 07-Feb-2023, Time: 23:56:36, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.389	0.866	3.735e3	5.561e3	1.064	0.672	0.770	954	1282	5.84e4	8.47e4	61.3	66.0	NO	bb	db	1.146
1289-TCDF	27.333	1.057	7.829e2	4.706e2	0.858	1.664	0.770	954	1282	7.67e3	6.17e3	8.0	4.8	YES	bb	bb	0.192
13468-PECDF					1.013		1.550	927	794								
12389-PECDF					0.844		1.550	2105	3013								
123468-HXCDF	33.346	0.953	2.649e4	2.197e4	1.197	1.206	1.240	1104	1063	4.14e5	3.47e5	374.7	326.6	NO	dd	dd	7.327
1368-TCDD	23.659	0.893	5.029e3	6.098e3	1.084	0.825	0.770	975	1441	7.23e4	9.24e4	74.1	64.1	NO	bb	bb	1.792
1289-TCDD	27.122	1.023	2.277e2	3.938e2	0.975	0.578	0.770	975	1441	4.59e3	6.09e3	4.7	4.2	YES	bb	dd	0.111
12479-PECDD	28.945	0.915	1.642e4	1.167e4	1.837	1.408	1.550	2416	2784	1.70e5	1.13e5	70.4	40.7	NO	bb	bb	3.417
12389-PECDD					1.252		1.550	2416	2784								
124679-HXCDD	34.115	0.945	5.635e4	4.677e4	1.033	1.205	1.240	2183	3092	9.03e5	7.64e5	413.6	247.1	NO	bb	bb	18.100
1234679-HPCDD	39.318	0.974	5.621e5	5.399e5	1.286	1.041	1.050	3528	3743	9.14e6	8.85e6	2589.7	2363.2	NO	bb	bb	234.217
Total-tetrafurans			1.429e5		0.933			954		2.09e6							46.899
Total-penta1			7.186e4					927		1.07e6							18.437
Total-pentafurans			1.363e5		0.866			2105		1.81e6							37.326
Total-hexafurans			4.386e5		1.208			1104		6.88e6							123.812
Total-heptafurans			1.071e6		1.185			2282		1.75e7							401.367
Total-Furans			2.562e6		1.067			954		3.76e7							1003.378
Total-tetradioxins			1.059e4		1.099			975		1.64e5							3.760
Total-pentadioxins			2.821e4		1.392			2416		3.65e5							6.641
Total-hexadioxins			1.735e5		1.007			2183		2.49e6							57.430
Total-heptadioxins			1.211e6		1.269			3528		1.91e7							509.731
Total-Dioxins			5.620e6		1.165			975		7.55e7							3011.396
Total-TEQ			8.182e6					975		1.13e8							4014.774
FUNCTION1 PFK			2.831e7					332990		2.50e8							
FUNCTION2 PFK			3.807e6					188704		2.40e7							0.000
FUNCTION3 PFK			7.763e6					222561		2.87e7							0.000
FUNCTION4 PFK			1.319e6					167351		3.89e5							
FUNCTION5 PFK			4.316e5					117361		6.49e6							
FUNCTION1 HXCD...			5.104e3					552		7.98e4							0.000
FUNCTION1 HPCD...			4.501e3					620		6.86e4							0.000
FUNCTION2 HPCD...			1.920e3					1089		3.50e4							0.000
FUNCTION3 OCDPE			8.559e2					792		1.76e4							0.000
FUNCTION4 NCDPE			3.860e3					884		6.17e4							0.000
FUNCTION5 DCDPE			7.487e2					558		7.50e3							0.000

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0459-06, Name: 23020719, Date: 07-Feb-2023, Time: 23:56:36, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.55	8.590e3	1.108e4	0.933	0.78	0.77	113.3	YES	NO	dd	dd	2.768
2	Total-tetrafurans	24.13	4.437e3	6.254e3	0.933	0.71	0.77	73.3	YES	NO	db	db	1.504
3	Total-tetrafurans	23.99	3.441e3	4.344e3	0.933	0.79	0.77	61.8	YES	NO	dd	dd	1.095
4	Total-tetrafurans	23.89	9.629e3	1.258e4	0.933	0.77	0.77	166.5	YES	NO	dd	dd	3.126
5	Total-tetrafurans	23.72	1.509e3	1.804e3	0.933	0.84	0.77	28.0	YES	NO	dd	dd	0.466
6	Total-tetrafurans	23.64	1.561e4	2.035e4	0.933	0.77	0.77	233.0	YES	NO	dd	dd	5.059
7	Total-tetrafurans	23.54	2.423e4	3.184e4	0.933	0.76	0.77	356.2	YES	NO	dd	dd	7.890
8	Total-tetrafurans	23.36	8.358e3	1.225e4	0.933	0.68	0.77	104.7	YES	NO	dd	dd	2.899
9	Total-tetrafurans	23.22	1.106e4	1.429e4	0.933	0.77	0.77	179.6	YES	NO	bd	bd	3.568
10	Total-tetrafurans	22.65	6.107e3	8.309e3	0.933	0.74	0.77	102.3	YES	NO	bb	bb	2.028
11	1368-TCDF	22.39	3.735e3	5.561e3	1.064	0.67	0.77	61.3	YES	NO	bb	db	1.146
12	Total-tetrafurans	26.12	4.305e3	5.867e3	0.933	0.73	0.77	63.3	YES	NO	dd	dd	1.431
13	Total-tetrafurans	26.03	1.588e3	1.882e3	0.933	0.84	0.77	31.4	YES	NO	dd	dd	0.488
14	2378-TCDF	25.88	3.291e3	4.044e3	0.876	0.81	0.77	51.1	YES	NO	bd	dd	1.099
15	Total-tetrafurans	25.66	1.720e4	2.419e4	0.933	0.71	0.77	244.8	YES	NO	bb	bd	5.824
16	Total-tetrafurans	25.40	1.178e3	1.662e3	0.933	0.71	0.77	16.0	YES	NO	db	db	0.400
17	Total-tetrafurans	25.20	2.519e3	3.433e3	0.933	0.73	0.77	38.0	YES	NO	bd	bd	0.837
18	Total-tetrafurans	24.97	3.980e3	5.158e3	0.933	0.77	0.77	63.8	YES	NO	bb	bb	1.286
19	Total-tetrafurans	24.79	9.528e3	1.314e4	0.933	0.72	0.77	161.1	YES	NO	db	db	3.190
20	Total-tetrafurans	24.64	2.563e3	3.074e3	0.933	0.83	0.77	42.0	YES	NO	dd	dd	0.793

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.32	7.186e4	4.788e4		1.50	1.55	1148.8	YES	NO	bb	bb	18.437

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PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	29.40	1.159e3	7.550e2	0.866	1.53	1.55	10.5	YES	NO	dd	dd	0.320
2	Total-pentafurans	28.98	5.872e4	3.562e4	0.866	1.65	1.55	332.8	YES	NO	dd	MM	15.755
3	Total-pentafurans	28.79	1.407e4	1.032e4	0.866	1.36	1.55	95.4	YES	NO	dd	dd	4.074
4	Total-pentafurans	28.69	3.650e3	2.175e3	0.866	1.68	1.55	28.4	YES	NO	bd	bd	0.973
5	23478-PeCDF	31.39	1.074e4	6.634e3	0.911	1.62	1.55	82.2	YES	NO	db	db	2.830
6	Total-pentafurans	31.24	9.029e3	5.932e3	0.866	1.52	1.55	65.0	YES	NO	dd	dd	2.498
7	Total-pentafurans	31.13	4.086e3	2.730e3	0.866	1.50	1.55	34.4	YES	NO	bd	bd	1.138
8	Total-pentafurans	30.36	1.381e3	8.788e2	0.866	1.57	1.55	11.3	YES	NO	db	db	0.377
9	Total-pentafurans	30.25	9.463e3	6.126e3	0.866	1.54	1.55	70.5	YES	NO	bd	bd	2.603
10	12378-PeCDF	30.05	4.432e3	2.967e3	0.845	1.49	1.55	34.0	YES	NO	bb	bb	1.237
11	Total-pentafurans	29.73	1.745e4	1.197e4	0.866	1.46	1.55	75.4	YES	NO	db	db	4.914
12	Total-pentafurans	29.58	2.138e3	1.496e3	0.866	1.43	1.55	17.6	YES	NO	dd	dd	0.607

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	35.47	1.203e3	8.980e2	1.208	1.34	1.24	19.1	YES	NO	db	bb	0.330
2	123678-HxCDF	35.14	1.344e4	1.156e4	1.248	1.16	1.24	193.3	YES	NO	db	db	3.634
3	123478-HxCDF	35.01	4.908e4	3.953e4	1.182	1.24	1.24	708.2	YES	NO	dd	dd	13.576
4	Total-hexafurans	34.85	6.293e3	4.988e3	1.208	1.26	1.24	97.0	YES	NO	bd	bd	1.775
5	Total-hexafurans	34.38	2.121e5	1.699e5	1.208	1.25	1.24	3091.3	YES	NO	bb	bb	60.095
6	Total-hexafurans	34.08	4.931e3	3.961e3	1.208	1.24	1.24	69.1	YES	NO	bd	bb	1.399
7	Total-hexafurans	33.56	1.002e5	7.972e4	1.208	1.26	1.24	1381.4	YES	NO	dd	db	28.302
8	123468-HXCDF	33.35	2.649e4	2.197e4	1.197	1.21	1.24	374.7	YES	NO	dd	dd	7.327
9	Total-hexafurans	33.22	7.115e2	5.937e2	1.208	1.20	1.24	9.7	YES	NO	bd	bd	0.205
10	123789-HxCDF	36.99	6.760e3	5.327e3	1.187	1.27	1.24	91.5	YES	NO	bb	bb	2.128
11	234678-HxCDF	35.96	1.745e4	1.486e4	1.229	1.17	1.24	193.4	YES	NO	bb	bb	5.040

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.12	2.143e4	2.014e4	1.165	1.06	1.05	139.9	YES	NO	bb	bb	8.683
2	Total-heptafurans	39.53	7.697e5	7.540e5	1.185	1.02	1.05	5455.9	YES	NO	bd	bd	293.924
3	Total-heptafurans	39.28	4.336e3	4.119e3	1.185	1.05	1.05	27.8	YES	NO	bb	bb	1.631
4	1234678-HpCDF	38.87	2.753e5	2.677e5	1.204	1.03	1.05	2025.4	YES	NO	bd	bb	97.129

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.55	8.590e3	1.108e4	0.933	0.78	0.77	113.3	YES	NO	dd	dd	2.768
2	Total-tetrafurans	24.13	4.437e3	6.254e3	0.933	0.71	0.77	73.3	YES	NO	db	db	1.504
3	Total-tetrafurans	23.99	3.441e3	4.344e3	0.933	0.79	0.77	61.8	YES	NO	dd	dd	1.095
4	Total-tetrafurans	23.89	9.629e3	1.258e4	0.933	0.77	0.77	166.5	YES	NO	dd	dd	3.126
5	Total-tetrafurans	23.72	1.509e3	1.804e3	0.933	0.84	0.77	28.0	YES	NO	dd	dd	0.466
6	Total-tetrafurans	23.64	1.561e4	2.035e4	0.933	0.77	0.77	233.0	YES	NO	dd	dd	5.059
7	Total-tetrafurans	23.54	2.423e4	3.184e4	0.933	0.76	0.77	356.2	YES	NO	dd	dd	7.890
8	Total-tetrafurans	23.36	8.358e3	1.225e4	0.933	0.68	0.77	104.7	YES	NO	dd	dd	2.899
9	Total-tetrafurans	23.22	1.106e4	1.429e4	0.933	0.77	0.77	179.6	YES	NO	bd	bd	3.568
10	Total-tetrafurans	22.65	6.107e3	8.309e3	0.933	0.74	0.77	102.3	YES	NO	bb	bb	2.028
11	1368-TCDF	22.39	3.735e3	5.561e3	1.064	0.67	0.77	61.3	YES	NO	bb	db	1.146
12	Total-tetrafurans	26.12	4.305e3	5.867e3	0.933	0.73	0.77	63.3	YES	NO	dd	dd	1.431
13	Total-tetrafurans	26.03	1.588e3	1.882e3	0.933	0.84	0.77	31.4	YES	NO	dd	dd	0.488
14	2378-TCDF	25.88	3.291e3	4.044e3	0.876	0.81	0.77	51.1	YES	NO	bd	dd	1.099
15	Total-tetrafurans	25.66	1.720e4	2.419e4	0.933	0.71	0.77	244.8	YES	NO	bb	bd	5.824
16	Total-tetrafurans	25.40	1.178e3	1.662e3	0.933	0.71	0.77	16.0	YES	NO	db	db	0.400
17	Total-tetrafurans	25.20	2.519e3	3.433e3	0.933	0.73	0.77	38.0	YES	NO	bd	bd	0.837
18	Total-tetrafurans	24.97	3.980e3	5.158e3	0.933	0.77	0.77	63.8	YES	NO	bb	bb	1.286
19	Total-tetrafurans	24.79	9.528e3	1.314e4	0.933	0.72	0.77	161.1	YES	NO	db	db	3.190
20	Total-tetrafurans	24.64	2.563e3	3.074e3	0.933	0.83	0.77	42.0	YES	NO	dd	dd	0.793
21	Total-pentafurans	29.40	1.159e3	7.550e2	0.866	1.53	1.55	10.5	YES	NO	dd	dd	0.320
22	Total-pentafurans	28.98	5.872e4	3.562e4	0.866	1.65	1.55	332.8	YES	NO	dd	MM	15.755
23	Total-pentafurans	28.79	1.407e4	1.032e4	0.866	1.36	1.55	95.4	YES	NO	dd	dd	4.074
24	Total-pentafurans	28.69	3.650e3	2.175e3	0.866	1.68	1.55	28.4	YES	NO	bd	bd	0.973
25	23478-PeCDF	31.39	1.074e4	6.634e3	0.911	1.62	1.55	82.2	YES	NO	db	db	2.830
26	Total-pentafurans	31.24	9.029e3	5.932e3	0.866	1.52	1.55	65.0	YES	NO	dd	dd	2.498
27	Total-pentafurans	31.13	4.086e3	2.730e3	0.866	1.50	1.55	34.4	YES	NO	bd	bd	1.138
28	Total-pentafurans	30.36	1.381e3	8.788e2	0.866	1.57	1.55	11.3	YES	NO	db	db	0.377
29	Total-pentafurans	30.25	9.463e3	6.126e3	0.866	1.54	1.55	70.5	YES	NO	bd	bd	2.603
30	12378-PeCDF	30.05	4.432e3	2.967e3	0.845	1.49	1.55	34.0	YES	NO	bb	bb	1.237
31	Total-pentafurans	29.73	1.745e4	1.197e4	0.866	1.46	1.55	75.4	YES	NO	db	db	4.914
32	Total-pentafurans	29.58	2.138e3	1.496e3	0.866	1.43	1.55	17.6	YES	NO	dd	dd	0.607
33	Total-hexafurans	35.47	1.203e3	8.980e2	1.208	1.34	1.24	19.1	YES	NO	db	bb	0.330
34	123678-HxCDF	35.14	1.344e4	1.156e4	1.248	1.16	1.24	193.3	YES	NO	db	db	3.634
35	123478-HxCDF	35.01	4.908e4	3.953e4	1.182	1.24	1.24	708.2	YES	NO	dd	dd	13.576
36	Total-hexafurans	34.85	6.293e3	4.988e3	1.208	1.26	1.24	97.0	YES	NO	bd	bd	1.775
37	Total-hexafurans	34.38	2.121e5	1.699e5	1.208	1.25	1.24	3091.3	YES	NO	bb	bb	60.095

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-hexafurans	34.08	4.931e3	3.961e3	1.208	1.24	1.24	69.1	YES	NO	bd	bb	1.399
39	Total-hexafurans	33.56	1.002e5	7.972e4	1.208	1.26	1.24	1381.4	YES	NO	dd	db	28.302
40	123468-HXCDF	33.35	2.649e4	2.197e4	1.197	1.21	1.24	374.7	YES	NO	dd	dd	7.327
41	Total-hexafurans	33.22	7.115e2	5.937e2	1.208	1.20	1.24	9.7	YES	NO	bd	bd	0.205
42	123789-HxCDF	36.99	6.760e3	5.327e3	1.187	1.27	1.24	91.5	YES	NO	bb	bb	2.128
43	234678-HxCDF	35.96	1.745e4	1.486e4	1.229	1.17	1.24	193.4	YES	NO	bb	bb	5.040
44	1234789-HpCDF	41.12	2.143e4	2.014e4	1.165	1.06	1.05	139.9	YES	NO	bb	bb	8.683
45	Total-heptafurans	39.53	7.697e5	7.540e5	1.185	1.02	1.05	5455.9	YES	NO	bd	bd	293.924
46	Total-heptafurans	39.28	4.336e3	4.119e3	1.185	1.05	1.05	27.8	YES	NO	bb	bb	1.631
47	1234678-HpCDF	38.87	2.753e5	2.677e5	1.204	1.03	1.05	2025.4	YES	NO	bd	bb	97.129
48	OCDF	45.39	7.015e5	7.895e5	1.186	0.89	0.89	5314.3	YES	NO	bd	bd	375.538
49	Total-penta1	27.32	7.186e4	4.788e4		1.50	1.55	1148.8	YES	NO	bb	bb	18.437

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.66	5.029e3	6.098e3	1.084	0.82	0.77	74.1	YES	NO	bb	bb	1.792
2	Total-tetradioxins	25.72	6.056e2	7.332e2	1.099	0.83	0.77	9.4	YES	NO	bd	bb	0.213
3	Total-tetradioxins	25.14	1.781e3	2.447e3	1.099	0.73	0.77	28.0	YES	NO	bb	bb	0.672
4	Total-tetradioxins	23.93	3.174e3	3.638e3	1.099	0.87	0.77	56.9	YES	NO	bb	bb	1.083

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.04	5.255e3	3.710e3	1.392	1.42	1.55	34.8	YES	NO	bb	bb	1.439
2	12479-PECDD	28.95	1.642e4	1.167e4	1.837	1.41	1.55	70.4	YES	NO	bb	bb	3.417
3	Total-pentadioxins	30.39	3.225e3	2.280e3	1.392	1.41	1.55	23.3	YES	NO	bb	db	0.884
4	Total-pentadioxins	30.25	3.312e3	2.303e3	1.392	1.44	1.55	22.4	YES	NO	bb	bd	0.901

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.62	1.176e4	9.811e3	0.985	1.20	1.24	91.5	YES	NO	bb	bb	4.010
2	123678-HxCDD	36.23	2.513e4	2.201e4	1.021	1.14	1.24	192.1	YES	NO	db	dd	8.552
3	Total-hexadioxins	35.24	6.688e4	5.574e4	1.007	1.20	1.24	348.2	YES	NO	bb	bd	22.319
4	Total-hexadioxins	34.88	1.334e4	1.110e4	1.007	1.20	1.24	97.3	YES	NO	bb	bb	4.449
5	124679-HXCDD	34.12	5.635e4	4.677e4	1.033	1.21	1.24	413.6	YES	NO	bb	bb	18.100

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HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.38	6.490e5	6.136e5	1.253	1.06	1.05	2825.7	YES	NO	bd	bb	275.514
2	1234679-HPCDD	39.32	5.621e5	5.399e5	1.286	1.04	1.05	2589.7	YES	NO	bb	bb	234.217

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.66	5.029e3	6.098e3	1.084	0.82	0.77	74.1	YES	NO	bb	bb	1.792
2	Total-tetradioxins	25.72	6.056e2	7.332e2	1.099	0.83	0.77	9.4	YES	NO	bd	bb	0.213
3	Total-tetradioxins	25.14	1.781e3	2.447e3	1.099	0.73	0.77	28.0	YES	NO	bb	bb	0.672
4	Total-tetradioxins	23.93	3.174e3	3.638e3	1.099	0.87	0.77	56.9	YES	NO	bb	bb	1.083
5	Total-pentadioxins	30.04	5.255e3	3.710e3	1.392	1.42	1.55	34.8	YES	NO	bb	bb	1.439
6	12479-PECDD	28.95	1.642e4	1.167e4	1.837	1.41	1.55	70.4	YES	NO	bb	bb	3.417
7	Total-pentadioxins	30.39	3.225e3	2.280e3	1.392	1.41	1.55	23.3	YES	NO	bb	db	0.884
8	Total-pentadioxins	30.25	3.312e3	2.303e3	1.392	1.44	1.55	22.4	YES	NO	bb	bd	0.901
9	123789-HxCDD	36.62	1.176e4	9.811e3	0.985	1.20	1.24	91.5	YES	NO	bb	bb	4.010
10	123678-HxCDD	36.23	2.513e4	2.201e4	1.021	1.14	1.24	192.1	YES	NO	db	dd	8.552
11	Total-hexadioxins	35.24	6.688e4	5.574e4	1.007	1.20	1.24	348.2	YES	NO	bb	bd	22.319
12	Total-hexadioxins	34.88	1.334e4	1.110e4	1.007	1.20	1.24	97.3	YES	NO	bb	bb	4.449
13	124679-HXCDD	34.12	5.635e4	4.677e4	1.033	1.21	1.24	413.6	YES	NO	bb	bb	18.100
14	1234678-HpCDD	40.38	6.490e5	6.136e5	1.253	1.06	1.05	2825.7	YES	NO	bd	bb	275.514
15	1234679-HPCDD	39.32	5.621e5	5.399e5	1.286	1.04	1.05	2589.7	YES	NO	bb	bb	234.217
16	OCDD	45.16	4.197e6	4.786e6	1.103	0.88	0.89	37065.2	YES	NO	bb	bb	2433.8...

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.55	8.590e3	1.108e4	0.933	0.78	0.77	113.3	YES	NO	dd	dd	2.768
2	Total-tetrafurans	24.13	4.437e3	6.254e3	0.933	0.71	0.77	73.3	YES	NO	db	db	1.504
3	Total-tetrafurans	23.99	3.441e3	4.344e3	0.933	0.79	0.77	61.8	YES	NO	dd	dd	1.095
4	Total-tetrafurans	23.89	9.629e3	1.258e4	0.933	0.77	0.77	166.5	YES	NO	dd	dd	3.126
5	Total-tetrafurans	23.72	1.509e3	1.804e3	0.933	0.84	0.77	28.0	YES	NO	dd	dd	0.466
6	Total-tetrafurans	23.64	1.561e4	2.035e4	0.933	0.77	0.77	233.0	YES	NO	dd	dd	5.059
7	Total-tetrafurans	23.54	2.423e4	3.184e4	0.933	0.76	0.77	356.2	YES	NO	dd	dd	7.890
8	Total-tetrafurans	23.36	8.358e3	1.225e4	0.933	0.68	0.77	104.7	YES	NO	dd	dd	2.899
9	Total-tetrafurans	23.22	1.106e4	1.429e4	0.933	0.77	0.77	179.6	YES	NO	bd	bd	3.568
10	Total-tetrafurans	22.65	6.107e3	8.309e3	0.933	0.74	0.77	102.3	YES	NO	bb	bb	2.028
11	1368-TCDF	22.39	3.735e3	5.561e3	1.064	0.67	0.77	61.3	YES	NO	bb	db	1.146
12	Total-tetrafurans	26.12	4.305e3	5.867e3	0.933	0.73	0.77	63.3	YES	NO	dd	dd	1.431
13	Total-tetrafurans	26.03	1.588e3	1.882e3	0.933	0.84	0.77	31.4	YES	NO	dd	dd	0.488
14	2378-TCDF	25.88	3.291e3	4.044e3	0.876	0.81	0.77	51.1	YES	NO	bd	dd	1.099
15	Total-tetrafurans	25.66	1.720e4	2.419e4	0.933	0.71	0.77	244.8	YES	NO	bb	bd	5.824
16	Total-tetrafurans	25.40	1.178e3	1.662e3	0.933	0.71	0.77	16.0	YES	NO	db	db	0.400
17	Total-tetrafurans	25.20	2.519e3	3.433e3	0.933	0.73	0.77	38.0	YES	NO	bd	bd	0.837
18	Total-tetrafurans	24.97	3.980e3	5.158e3	0.933	0.77	0.77	63.8	YES	NO	bb	bb	1.286
19	Total-tetrafurans	24.79	9.528e3	1.314e4	0.933	0.72	0.77	161.1	YES	NO	db	db	3.190
20	Total-tetrafurans	24.64	2.563e3	3.074e3	0.933	0.83	0.77	42.0	YES	NO	dd	dd	0.793
21	Total-pentafurans	29.40	1.159e3	7.550e2	0.866	1.53	1.55	10.5	YES	NO	dd	dd	0.320
22	Total-pentafurans	28.98	5.872e4	3.562e4	0.866	1.65	1.55	332.8	YES	NO	dd	MM	15.755
23	Total-pentafurans	28.79	1.407e4	1.032e4	0.866	1.36	1.55	95.4	YES	NO	dd	dd	4.074
24	Total-pentafurans	28.69	3.650e3	2.175e3	0.866	1.68	1.55	28.4	YES	NO	bd	bd	0.973
25	23478-PeCDF	31.39	1.074e4	6.634e3	0.911	1.62	1.55	82.2	YES	NO	db	db	2.830
26	Total-pentafurans	31.24	9.029e3	5.932e3	0.866	1.52	1.55	65.0	YES	NO	dd	dd	2.498
27	Total-pentafurans	31.13	4.086e3	2.730e3	0.866	1.50	1.55	34.4	YES	NO	bd	bd	1.138
28	Total-pentafurans	30.36	1.381e3	8.788e2	0.866	1.57	1.55	11.3	YES	NO	db	db	0.377
29	Total-pentafurans	30.25	9.463e3	6.126e3	0.866	1.54	1.55	70.5	YES	NO	bd	bd	2.603
30	12378-PeCDF	30.05	4.432e3	2.967e3	0.845	1.49	1.55	34.0	YES	NO	bb	bb	1.237
31	Total-pentafurans	29.73	1.745e4	1.197e4	0.866	1.46	1.55	75.4	YES	NO	db	db	4.914
32	Total-pentafurans	29.58	2.138e3	1.496e3	0.866	1.43	1.55	17.6	YES	NO	dd	dd	0.607
33	Total-hexafurans	35.47	1.203e3	8.980e2	1.208	1.34	1.24	19.1	YES	NO	db	bb	0.330
34	123678-HxCDF	35.14	1.344e4	1.156e4	1.248	1.16	1.24	193.3	YES	NO	db	db	3.634
35	123478-HxCDF	35.01	4.908e4	3.953e4	1.182	1.24	1.24	708.2	YES	NO	dd	dd	13.576
36	Total-hexafurans	34.85	6.293e3	4.988e3	1.208	1.26	1.24	97.0	YES	NO	bd	bd	1.775
37	Total-hexafurans	34.38	2.121e5	1.699e5	1.208	1.25	1.24	3091.3	YES	NO	bb	bb	60.095

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-hexafurans	34.08	4.931e3	3.961e3	1.208	1.24	1.24	69.1	YES	NO	bd	bb	1.399
39	Total-hexafurans	33.56	1.002e5	7.972e4	1.208	1.26	1.24	1381.4	YES	NO	dd	db	28.302
40	123468-HXCDF	33.35	2.649e4	2.197e4	1.197	1.21	1.24	374.7	YES	NO	dd	dd	7.327
41	Total-hexafurans	33.22	7.115e2	5.937e2	1.208	1.20	1.24	9.7	YES	NO	bd	bd	0.205
42	123789-HxCDF	36.99	6.760e3	5.327e3	1.187	1.27	1.24	91.5	YES	NO	bb	bb	2.128
43	234678-HxCDF	35.96	1.745e4	1.486e4	1.229	1.17	1.24	193.4	YES	NO	bb	bb	5.040
44	1234789-HpCDF	41.12	2.143e4	2.014e4	1.165	1.06	1.05	139.9	YES	NO	bb	bb	8.683
45	Total-heptafurans	39.53	7.697e5	7.540e5	1.185	1.02	1.05	5455.9	YES	NO	bd	bd	293.924
46	Total-heptafurans	39.28	4.336e3	4.119e3	1.185	1.05	1.05	27.8	YES	NO	bb	bb	1.631
47	1234678-HpCDF	38.87	2.753e5	2.677e5	1.204	1.03	1.05	2025.4	YES	NO	bd	bb	97.129
48	OCDF	45.39	7.015e5	7.895e5	1.186	0.89	0.89	5314.3	YES	NO	bd	bd	375.538
49	Total-penta1	27.32	7.186e4	4.788e4		1.50	1.55	1148.8	YES	NO	bb	bb	18.437
50	1368-TCDD	23.66	5.029e3	6.098e3	1.084	0.82	0.77	74.1	YES	NO	bb	bb	1.792
51	Total-tetradioxins	25.72	6.056e2	7.332e2	1.099	0.83	0.77	9.4	YES	NO	bd	bb	0.213
52	Total-tetradioxins	25.14	1.781e3	2.447e3	1.099	0.73	0.77	28.0	YES	NO	bb	bb	0.672
53	Total-tetradioxins	23.93	3.174e3	3.638e3	1.099	0.87	0.77	56.9	YES	NO	bb	bb	1.083
54	Total-pentadioxins	30.04	5.255e3	3.710e3	1.392	1.42	1.55	34.8	YES	NO	bb	bb	1.439
55	12479-PECDD	28.95	1.642e4	1.167e4	1.837	1.41	1.55	70.4	YES	NO	bb	bb	3.417
56	Total-pentadioxins	30.39	3.225e3	2.280e3	1.392	1.41	1.55	23.3	YES	NO	bb	db	0.884
57	Total-pentadioxins	30.25	3.312e3	2.303e3	1.392	1.44	1.55	22.4	YES	NO	bb	bd	0.901
58	123789-HxCDD	36.62	1.176e4	9.811e3	0.985	1.20	1.24	91.5	YES	NO	bb	bb	4.010
59	123678-HxCDD	36.23	2.513e4	2.201e4	1.021	1.14	1.24	192.1	YES	NO	db	dd	8.552
60	Total-hexadioxins	35.24	6.688e4	5.574e4	1.007	1.20	1.24	348.2	YES	NO	bb	bd	22.319
61	Total-hexadioxins	34.88	1.334e4	1.110e4	1.007	1.20	1.24	97.3	YES	NO	bb	bb	4.449
62	124679-HXCDD	34.12	5.635e4	4.677e4	1.033	1.21	1.24	413.6	YES	NO	bb	bb	18.100
63	1234678-HpCDD	40.38	6.490e5	6.136e5	1.253	1.06	1.05	2825.7	YES	NO	bd	bb	275.514
64	1234679-HPCDD	39.32	5.621e5	5.399e5	1.286	1.04	1.05	2589.7	YES	NO	bb	bb	234.217
65	OCDD	45.16	4.197e6	4.786e6	1.103	0.88	0.89	37065.2	YES	NO	bb	bb	2433.8...

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Printed: Wednesday, February 08, 2023 09:32:20 Pacific Standard Time

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.15	2.520e6					51.8	YES		bd		
2	FUNCTION1 PFK	23.10	8.428e5					22.3	YES		dd		
3	FUNCTION1 PFK	23.02	3.332e5					22.4	YES		dd		
4	FUNCTION1 PFK	22.95	6.992e5					24.0	YES		dd		
5	FUNCTION1 PFK	22.78	1.430e6					27.4	YES		dd		
6	FUNCTION1 PFK	22.75	5.494e5					27.1	YES		dd		
7	FUNCTION1 PFK	22.66	4.252e5					28.8	YES		dd		
8	FUNCTION1 PFK	22.59	2.815e6					30.7	YES		dd		
9	FUNCTION1 PFK	22.36	5.079e5					34.1	YES		dd		
10	FUNCTION1 PFK	22.27	1.545e6					34.7	YES		dd		
11	FUNCTION1 PFK	22.10	1.547e6					38.7	YES		dd		
12	FUNCTION1 PFK	21.91	2.401e6					41.4	YES		dd		
13	FUNCTION1 PFK	21.72	3.743e6					45.2	YES		dd		
14	FUNCTION1 PFK	21.57	7.003e5					46.9	YES		dd		
15	FUNCTION1 PFK	21.56	1.491e6					46.8	YES		dd		
16	FUNCTION1 PFK	21.33	2.276e6					51.0	YES		dd		
17	FUNCTION1 PFK	21.24	9.898e5					50.4	YES		dd		
18	FUNCTION1 PFK	25.64	7.000e3					0.8	NO		bd		
19	FUNCTION1 PFK	25.46	4.983e4					1.9	NO		bb		
20	FUNCTION1 PFK	25.13	1.525e4					1.0	NO		bb		
21	FUNCTION1 PFK	25.00	1.695e4					1.1	NO		bb		
22	FUNCTION1 PFK	24.94	1.935e4					1.4	NO		db		
23	FUNCTION1 PFK	24.87	1.599e4					0.9	NO		bd		
24	FUNCTION1 PFK	24.81	1.050e4					1.0	NO		bb		
25	FUNCTION1 PFK	24.52	1.542e3					0.3	NO		bb		
26	FUNCTION1 PFK	24.05	4.351e4					2.9	NO		db		
27	FUNCTION1 PFK	23.92	2.043e5					6.6	YES		dd		
28	FUNCTION1 PFK	23.84	3.362e5					8.9	YES		bd		
29	FUNCTION1 PFK	23.66	3.056e5					11.7	YES		db		
30	FUNCTION1 PFK	23.54	3.443e5					13.8	YES		dd		
31	FUNCTION1 PFK	23.43	6.183e5					16.4	YES		dd		
32	FUNCTION1 PFK	23.37	3.986e5					15.7	YES		dd		
33	FUNCTION1 PFK	23.25	3.745e5					15.8	YES		dd		
34	FUNCTION1 PFK	27.68	1.196e5					4.2	YES		db		
35	FUNCTION1 PFK	27.59	8.558e4					3.8	YES		dd		
36	FUNCTION1 PFK	27.53	8.465e4					3.3	YES		dd		
37	FUNCTION1 PFK	27.42	1.440e5					3.2	YES		bd		

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	27.23	9.383e3					1.0	NO		db		
39	FUNCTION1 PFK	27.18	9.209e3					0.8	NO		bd		
40	FUNCTION1 PFK	27.12	5.238e3					0.6	NO		bb		
41	FUNCTION1 PFK	27.02	2.144e4					1.3	NO		bb		
42	FUNCTION1 PFK	26.92	1.914e4					1.4	NO		bb		
43	FUNCTION1 PFK	26.71	1.702e3					0.3	NO		bb		
44	FUNCTION1 PFK	26.62	1.334e4					1.1	NO		bb		
45	FUNCTION1 PFK	26.49	5.223e4					1.7	NO		bb		
46	FUNCTION1 PFK	26.23	4.709e4					2.4	NO		bb		
47	FUNCTION1 PFK	25.99	1.014e5					1.4	NO		bb		
48	FUNCTION1 PFK	25.70	1.311e4					0.9	NO		db		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.73	1.144e3					0.5	NO		bb		0.000
2	FUNCTION2 PFK	32.10	3.885e3					0.9	NO		bb		0.000
3	FUNCTION2 PFK	31.63	2.832e3					0.8	NO		bb		0.000
4	FUNCTION2 PFK	31.54	1.149e4					1.5	NO		bb		0.000
5	FUNCTION2 PFK	31.50	6.046e3					1.4	NO		bb		0.000
6	FUNCTION2 PFK	31.16	1.409e4					1.4	NO		bb		0.000
7	FUNCTION2 PFK	30.46	1.318e4					1.7	NO		bb		0.000
8	FUNCTION2 PFK	30.30	1.074e3					0.5	NO		bb		0.000
9	FUNCTION2 PFK	30.26	7.426e3					1.6	NO		bb		0.000
10	FUNCTION2 PFK	30.06	7.808e3					1.4	NO		bb		0.000
11	FUNCTION2 PFK	29.61	6.264e3					1.3	NO		bb		0.000
12	FUNCTION2 PFK	29.12	1.787e5					2.3	NO		db		0.000
13	FUNCTION2 PFK	28.43	2.298e6					35.2	YES		dd		0.000
14	FUNCTION2 PFK	28.35	4.429e5					37.0	YES		dd		0.000
15	FUNCTION2 PFK	28.29	8.117e5					39.5	YES		bd		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.30	3.782e5					10.8	YES		db		0.000
2	FUNCTION3 PFK	37.15	2.350e5					13.6	YES		dd		0.000
3	FUNCTION3 PFK	37.05	5.697e5					16.4	YES		dd		0.000
4	FUNCTION3 PFK	36.87	6.274e5					21.3	YES		dd		0.000
5	FUNCTION3 PFK	36.70	1.237e6					25.1	YES		bd		0.000
6	FUNCTION3 PFK	36.24	1.506e6					18.7	YES		bb		0.000
7	FUNCTION3 PFK	33.25	3.209e6					23.2	YES		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.67	1.319e6					2.3	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.35	2.797e3					1.1	NO		bb		
2	FUNCTION5 PFK	44.03	7.610e3					1.9	NO		bb		
3	FUNCTION5 PFK	43.34	5.054e4					5.7	YES		db		
4	FUNCTION5 PFK	43.28	3.537e4					7.5	YES		dd		
5	FUNCTION5 PFK	43.20	1.027e5					10.0	YES		dd		
6	FUNCTION5 PFK	43.06	1.829e5					13.4	YES		bd		
7	FUNCTION5 PFK	46.45	5.014e3					1.4	NO		bb		
8	FUNCTION5 PFK	45.84	1.552e3					0.8	NO		bb		
9	FUNCTION5 PFK	45.28	6.236e3					1.1	NO		bb		
10	FUNCTION5 PFK	45.20	9.469e3					2.4	NO		bb		
11	FUNCTION5 PFK	45.11	1.730e3					0.9	NO		bb		
12	FUNCTION5 PFK	45.03	5.850e2					0.5	NO		db		
13	FUNCTION5 PFK	45.00	5.002e3					1.7	NO		dd		
14	FUNCTION5 PFK	44.95	7.838e3					1.6	NO		bd		
15	FUNCTION5 PFK	44.71	5.960e2					0.6	NO		bb		
16	FUNCTION5 PFK	44.67	3.401e3					1.3	NO		bb		
17	FUNCTION5 PFK	44.61	4.964e3					1.7	NO		db		
18	FUNCTION5 PFK	44.58	3.362e3					1.5	NO		bd		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	22.43	8.400e2					21.6	YES		bb		0.000
2	FUNCTION1 HXCD...	22.28	5.382e2					18.1	YES		bb		0.000
3	FUNCTION1 HXCD...	22.03	1.971e2					5.1	YES		bb		0.000
4	FUNCTION1 HXCD...	26.88	2.937e2					6.3	YES		bb		0.000
5	FUNCTION1 HXCD...	26.24	6.442e2					18.6	YES		bb		0.000
6	FUNCTION1 HXCD...	26.02	1.909e2					6.2	YES		bb		0.000
7	FUNCTION1 HXCD...	25.90	5.261e2					13.4	YES		bb		0.000
8	FUNCTION1 HXCD...	25.25	4.090e2					11.1	YES		bb		0.000
9	FUNCTION1 HXCD...	23.89	1.159e3					31.0	YES		bb		0.000
10	FUNCTION1 HXCD...	22.89	1.262e2					6.1	YES		db		0.000
11	FUNCTION1 HXCD...	22.84	1.793e2					6.9	YES		bd		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	28.04	1.825e2					4.2	YES		bb		0.000
2	FUNCTION1 HPCD...	27.80	9.449e1					3.9	YES		bb		0.000
3	FUNCTION1 HPCD...	23.48	3.776e3					90.4	YES		bb		0.000
4	FUNCTION1 HPCD...	22.43	4.481e2					12.2	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	29.19	1.774e2					2.9	NO		db		0.000
2	FUNCTION2 HPCD...	29.07	1.028e3					14.3	YES		bd		0.000
3	FUNCTION2 HPCD...	32.33	3.720e2					6.5	YES		bb		0.000
4	FUNCTION2 HPCD...	30.83	1.238e2					3.7	YES		db		0.000
5	FUNCTION2 HPCD...	30.78	2.185e2					4.8	YES		bd		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.60	1.229e2					1.7	NO		bb		0.000
2	FUNCTION3 OCDPE	34.33	3.784e2					9.2	YES		bb		0.000
3	FUNCTION3 OCDPE	33.21	2.405e2					6.4	YES		db		0.000
4	FUNCTION3 OCDPE	33.18	1.141e2					4.9	YES		bd		0.000

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ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.65	8.171e1					2.3	NO		db		0.000
2	FUNCTION4 NCDPE	38.50	3.617e3					62.6	YES		dd		0.000
3	FUNCTION4 NCDPE	38.40	1.615e2					4.9	YES		bd		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.18	7.487e2					13.4	YES		bb		0.000

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
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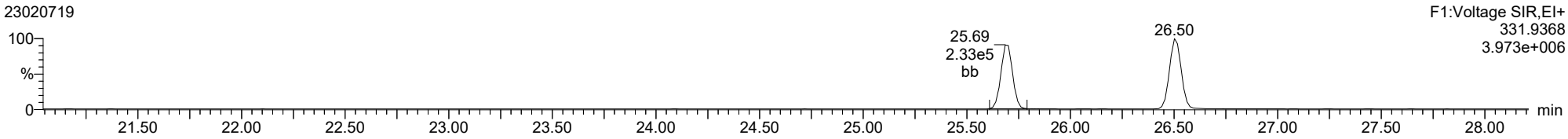
13C-1234-TCDD



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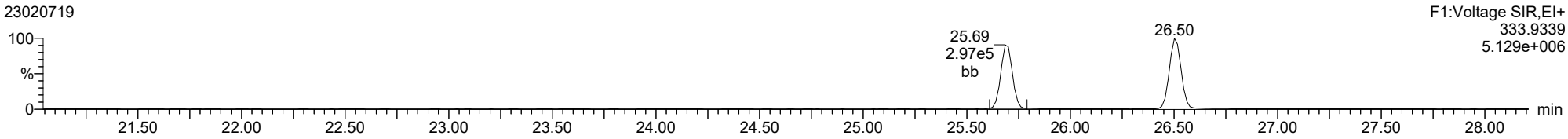

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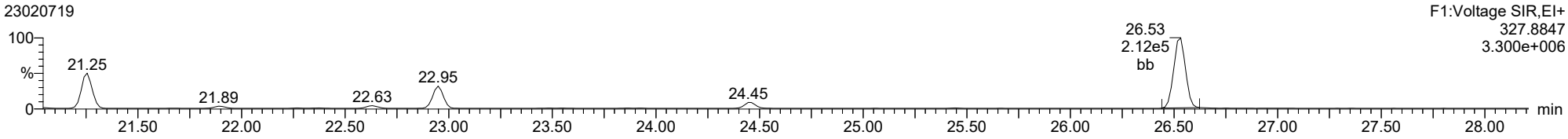

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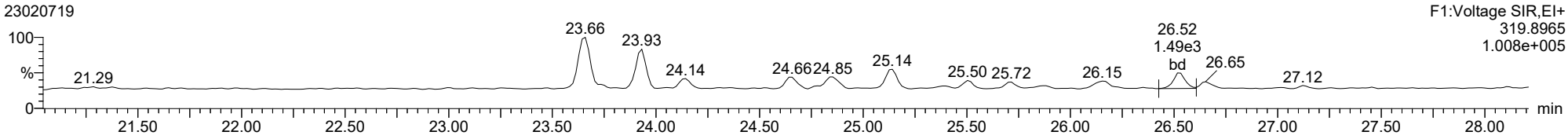
2378-TCDD



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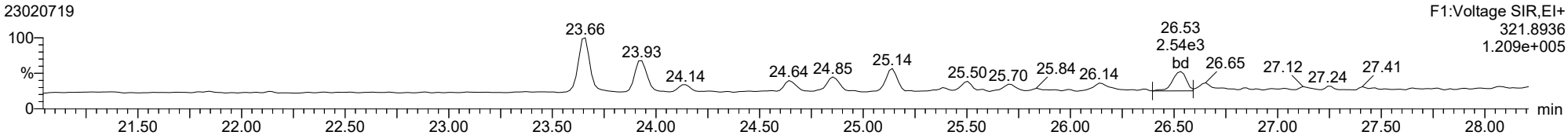

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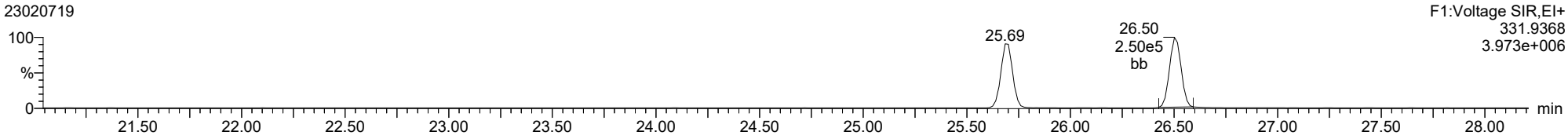

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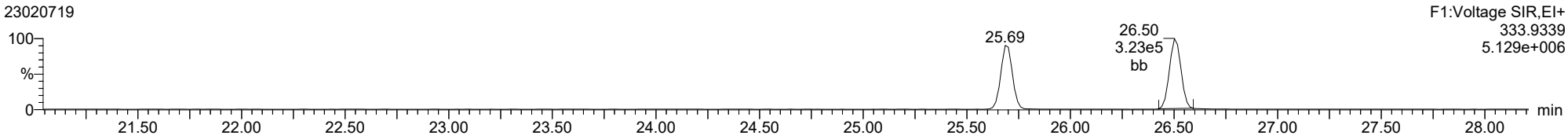

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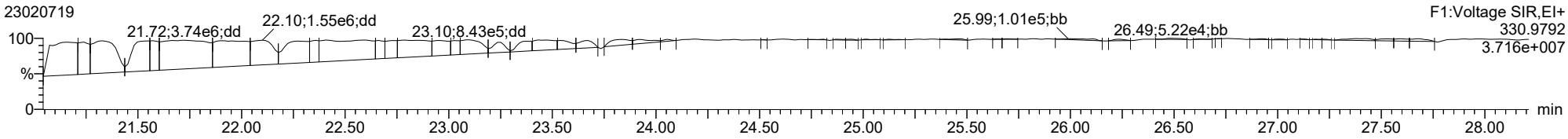

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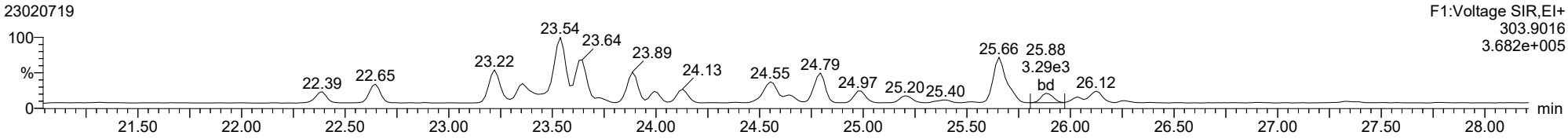
2378-TCDF



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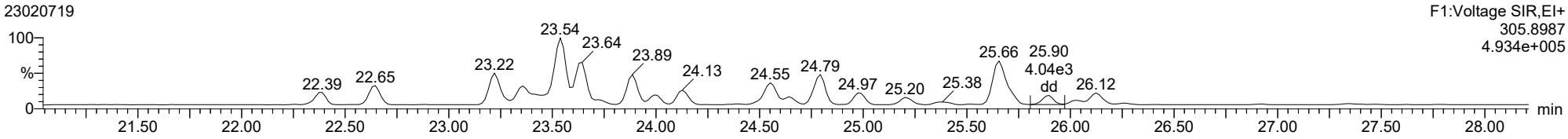

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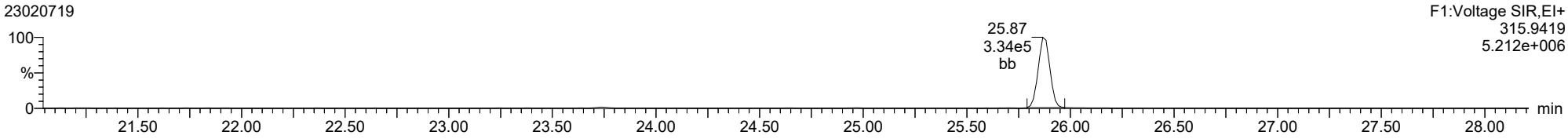

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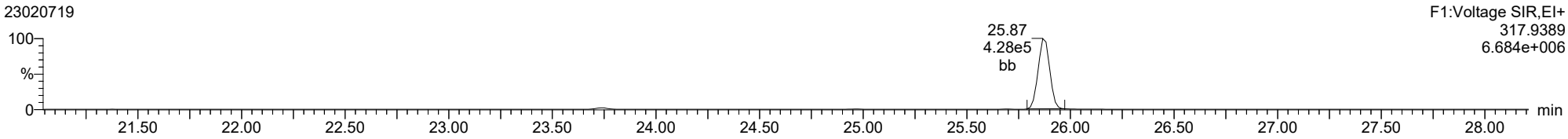

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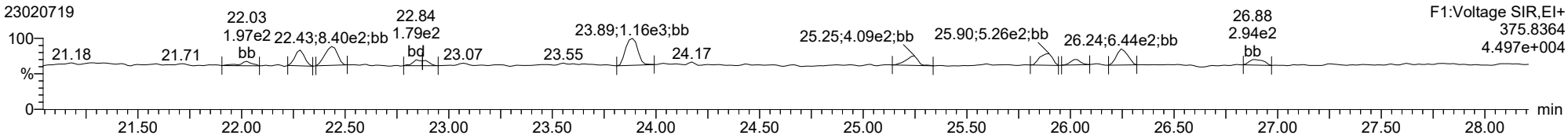

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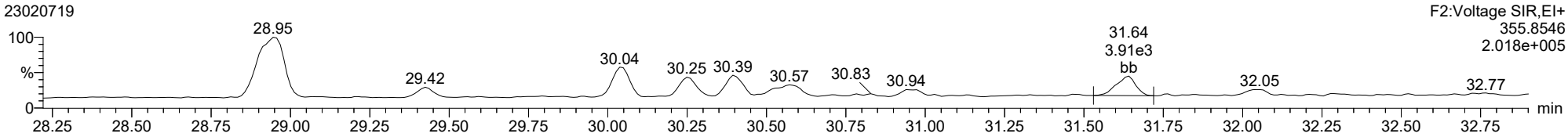
12378-PeCDD



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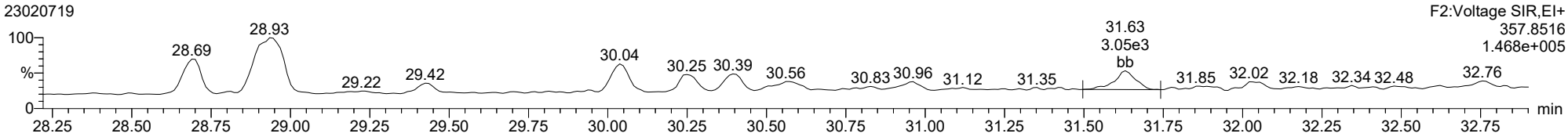

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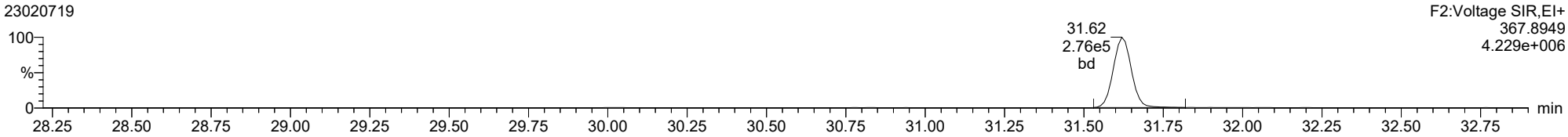

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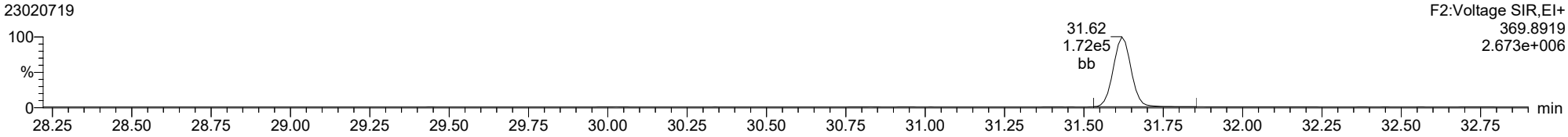

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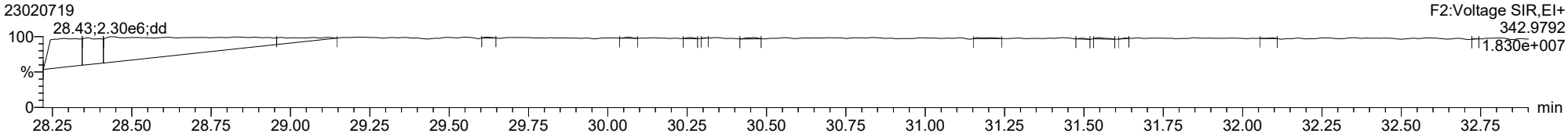

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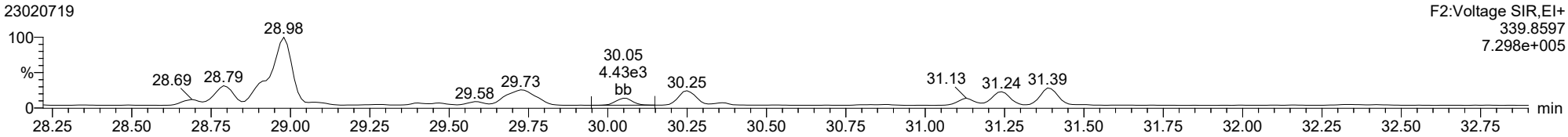

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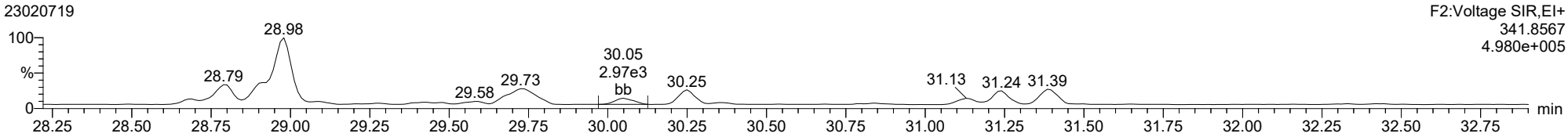

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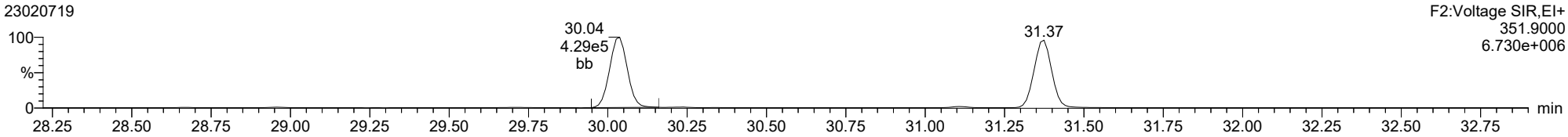

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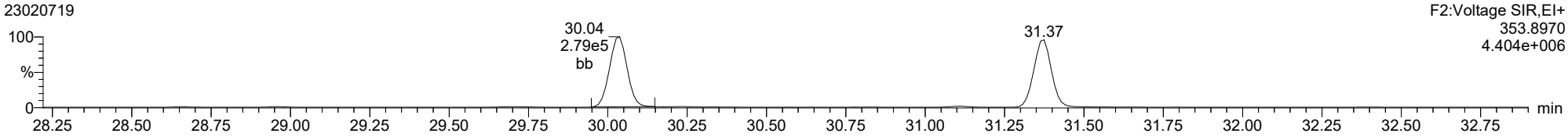

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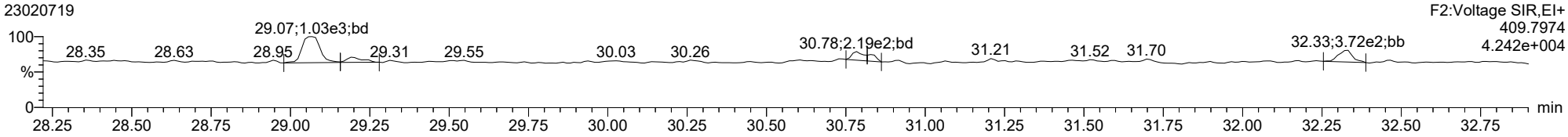

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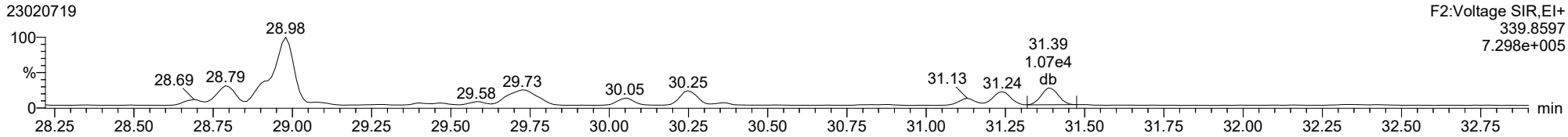

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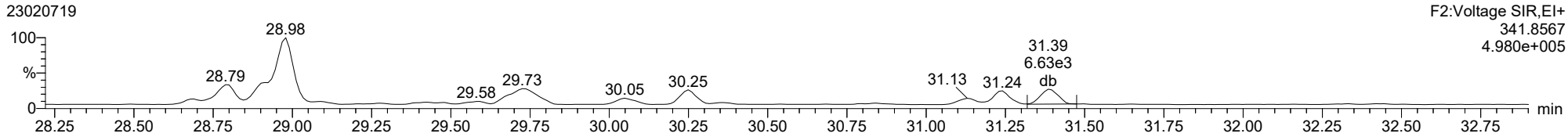

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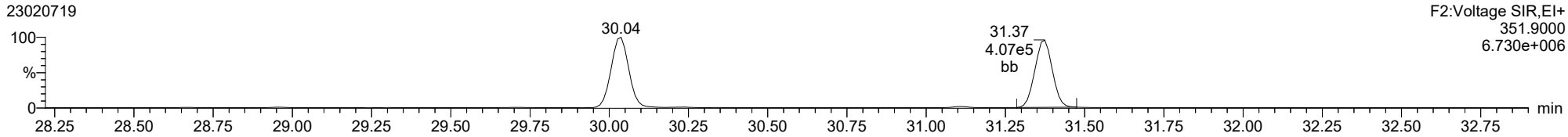

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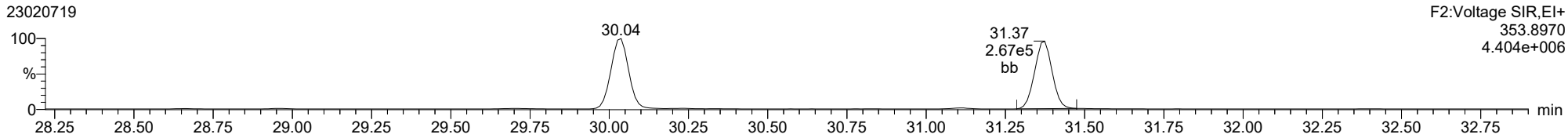

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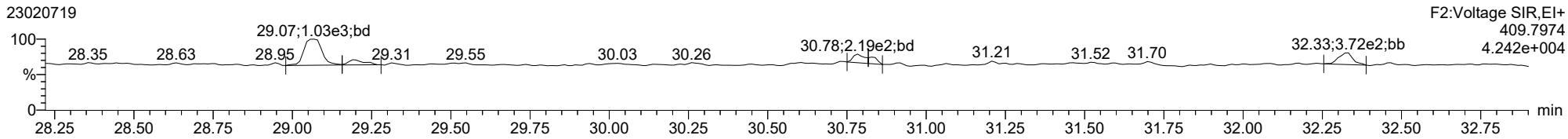

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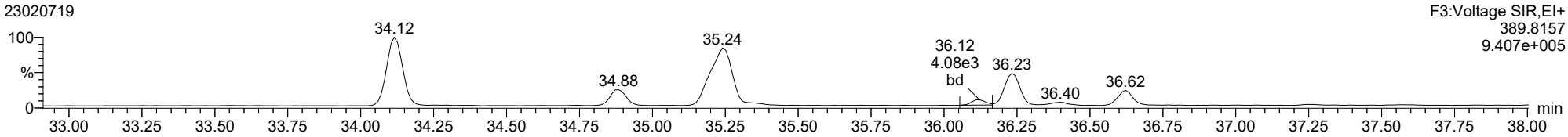
123478-HxCDD



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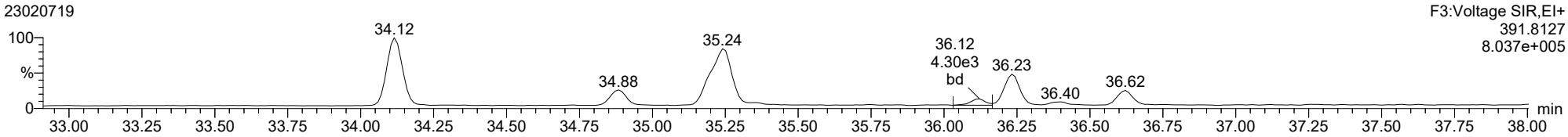

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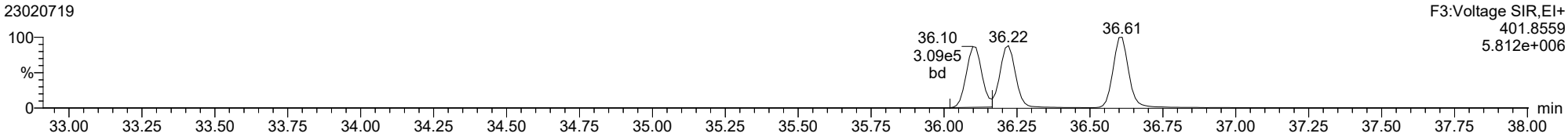

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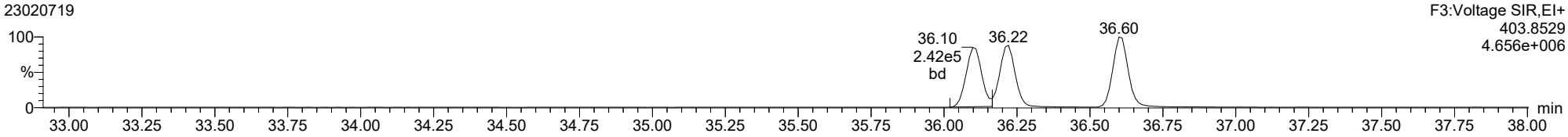

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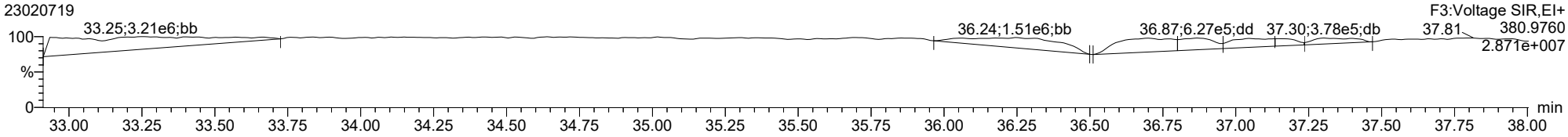

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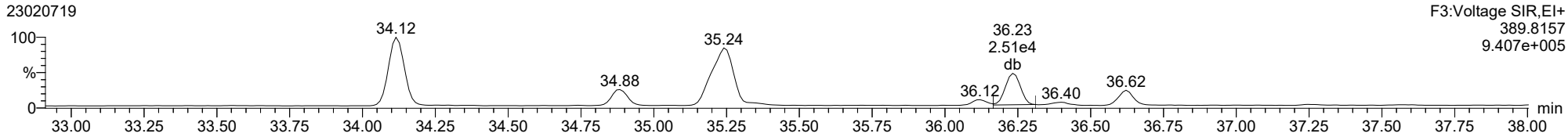
123678-HxCDD



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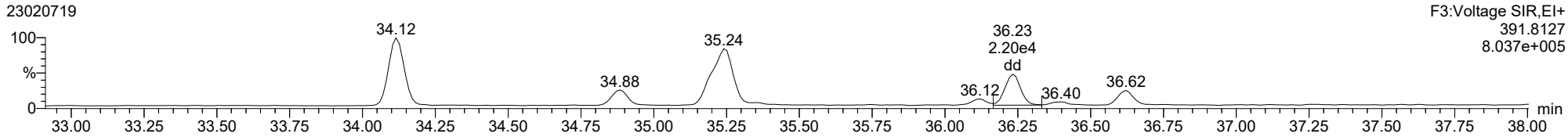

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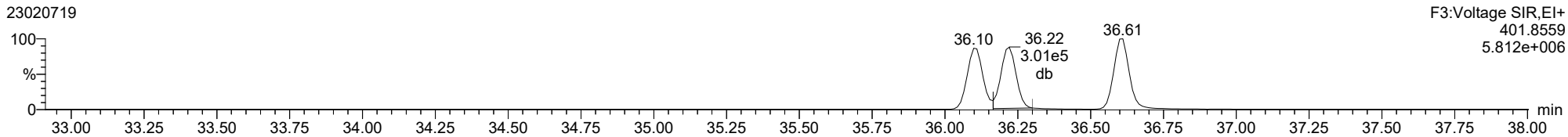

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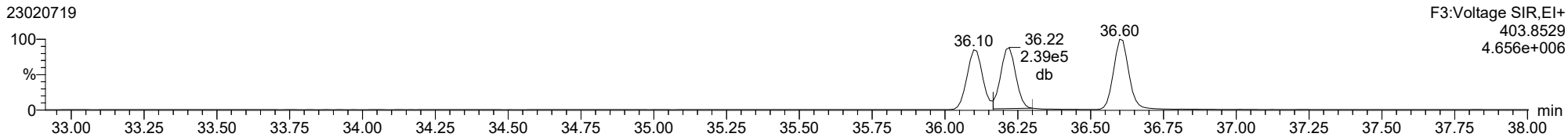

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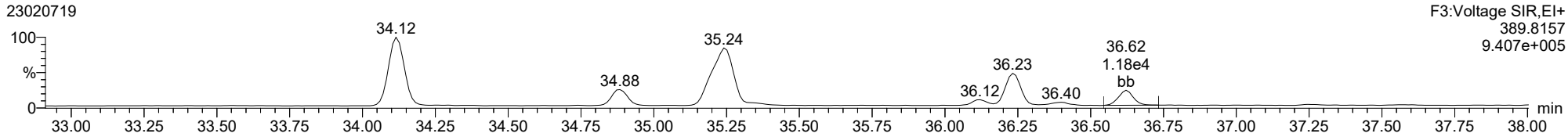

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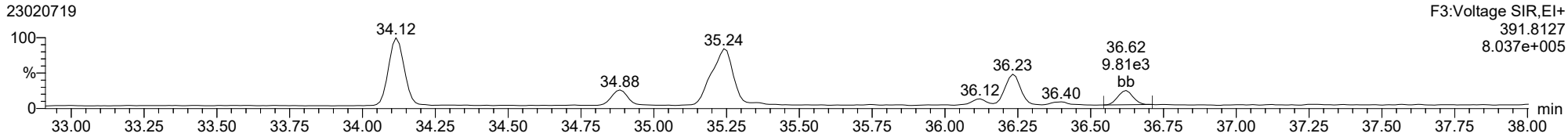

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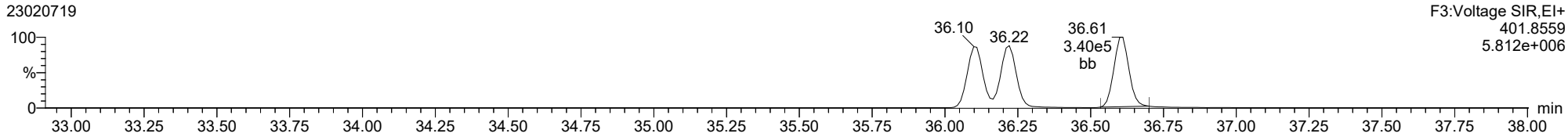

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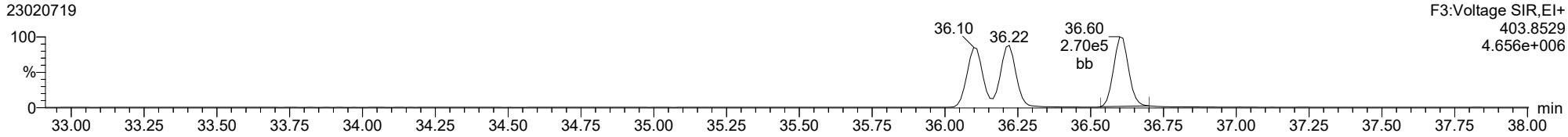

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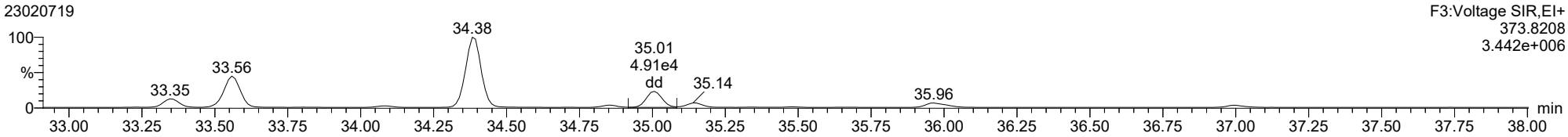

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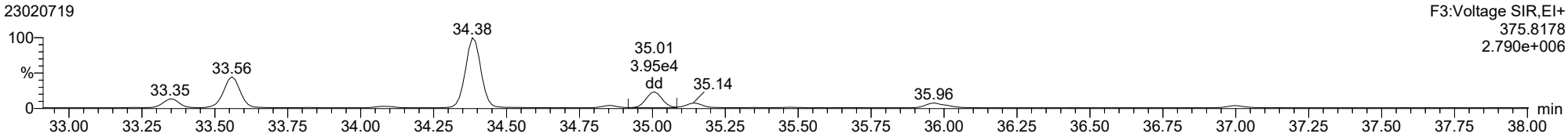

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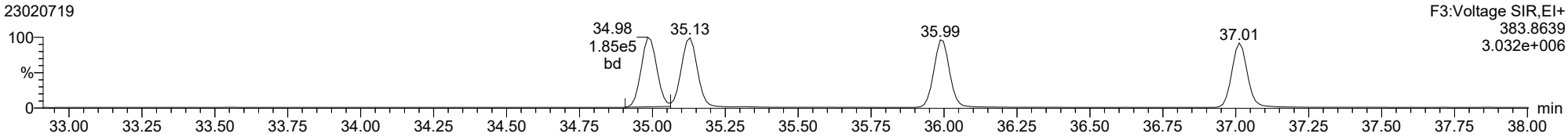

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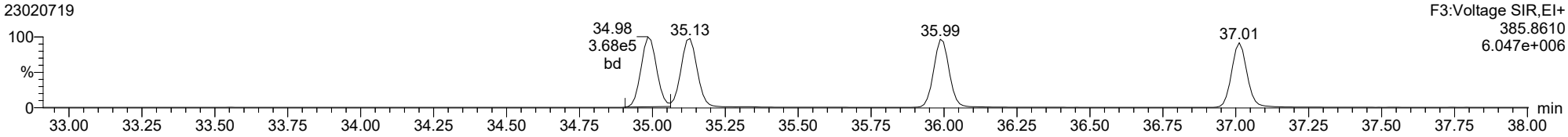

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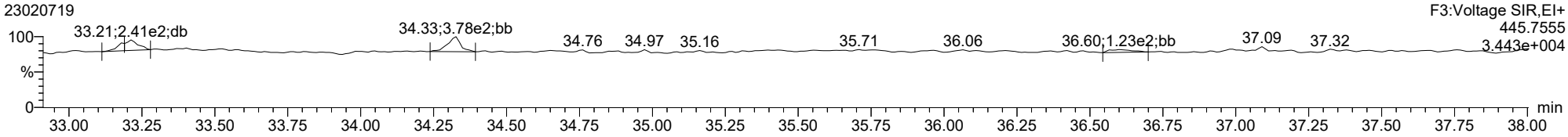

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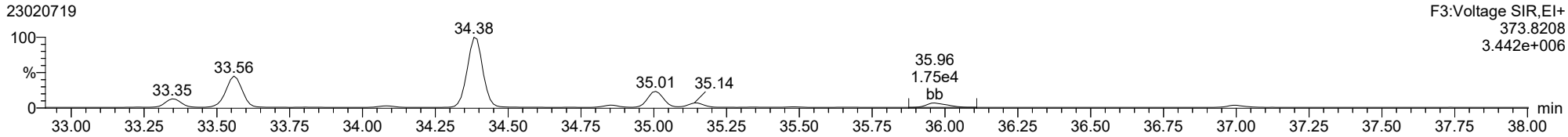
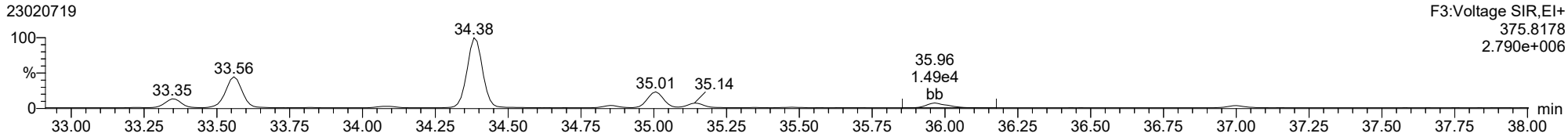
234678-HxCDF



234678-HxCDF



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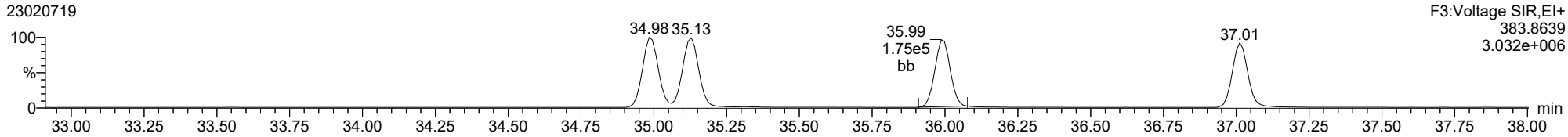

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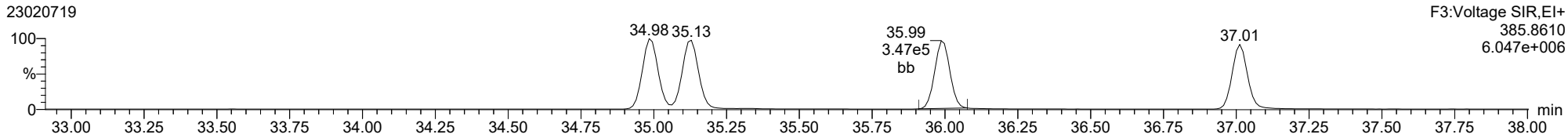
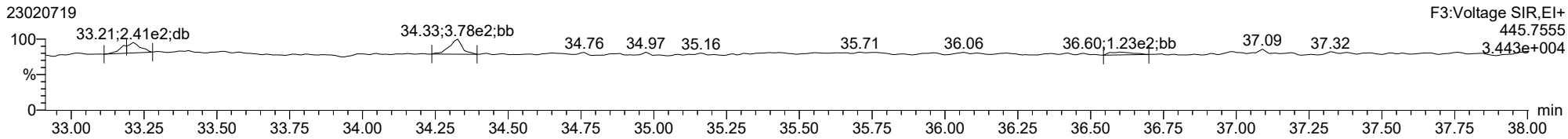


FUNCTION3 OCDPE



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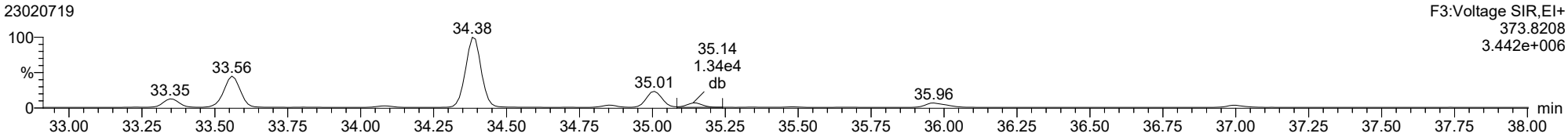

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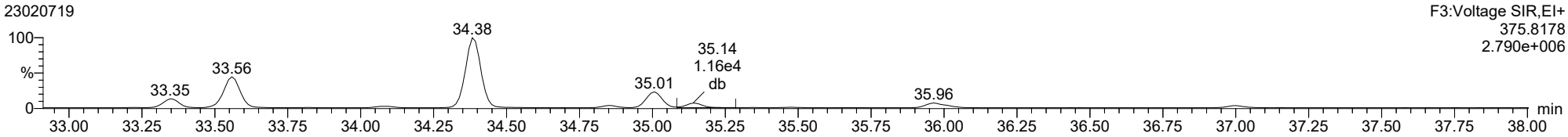

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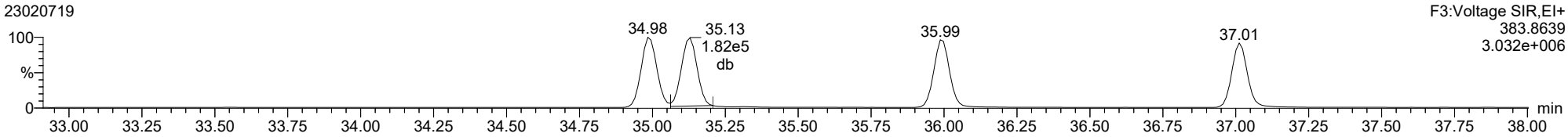

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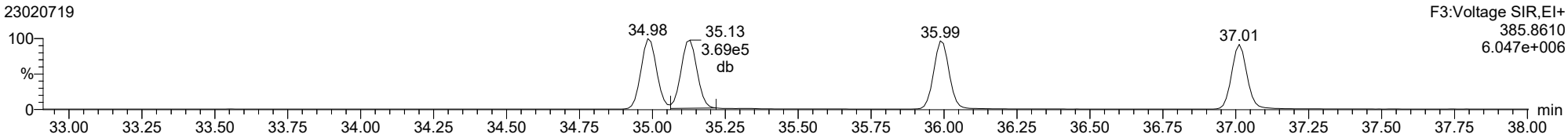

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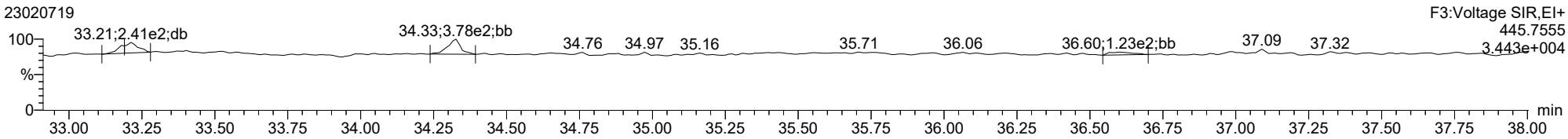

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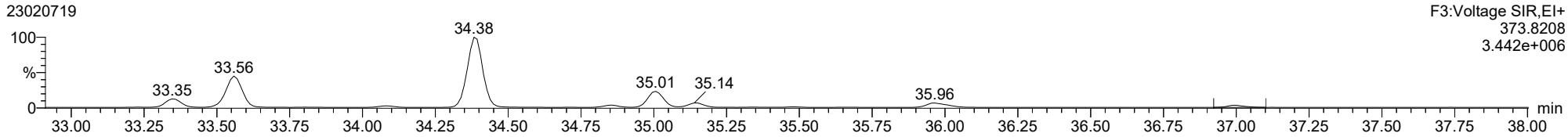

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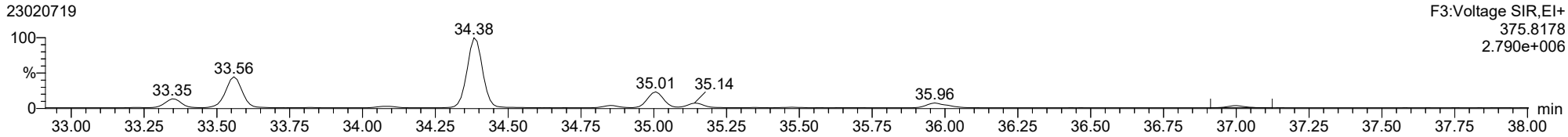

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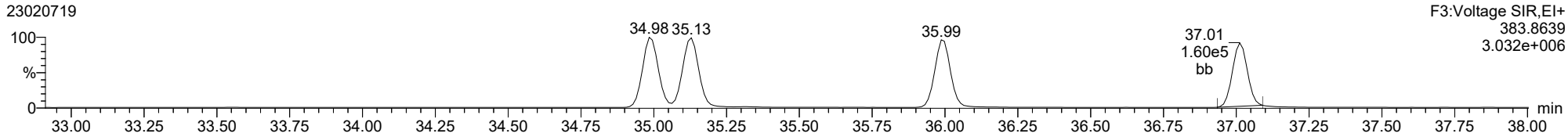

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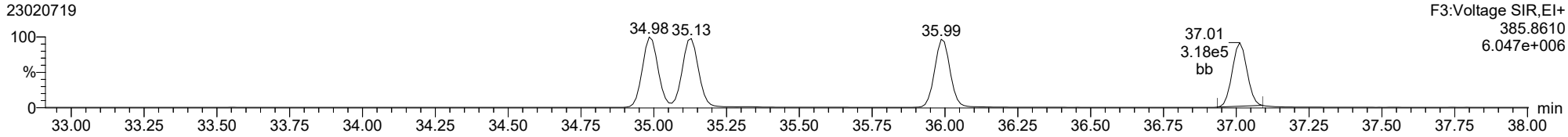

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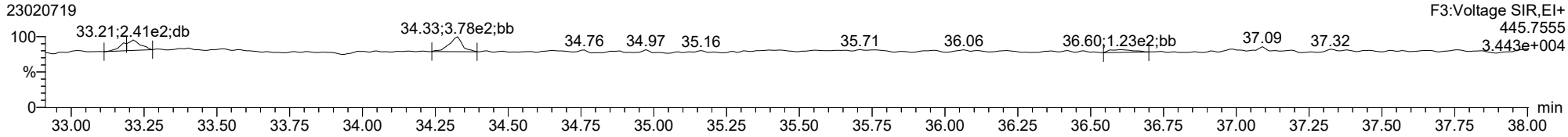

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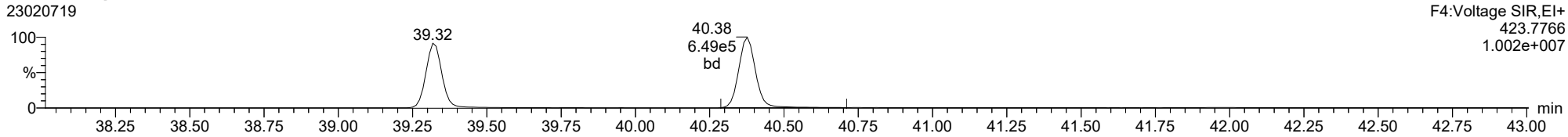

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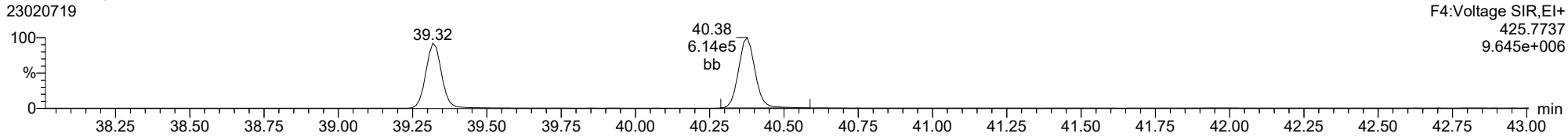

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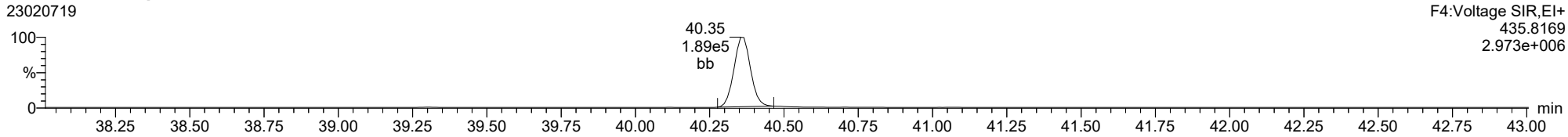

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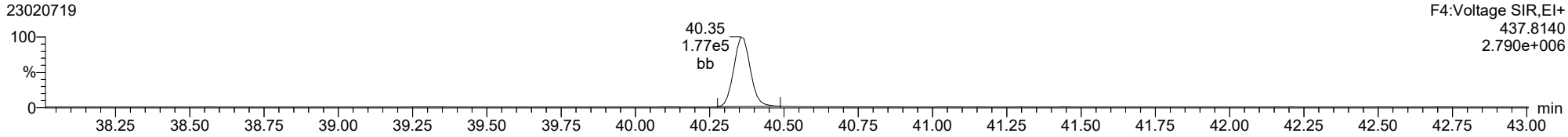

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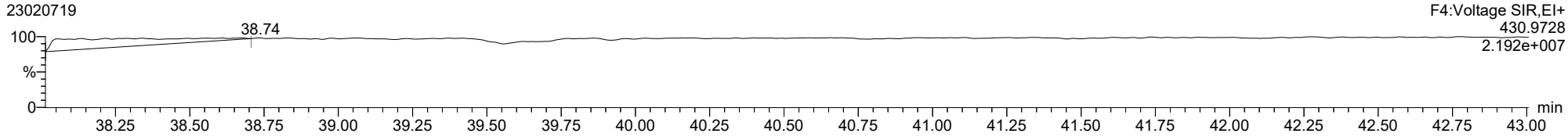

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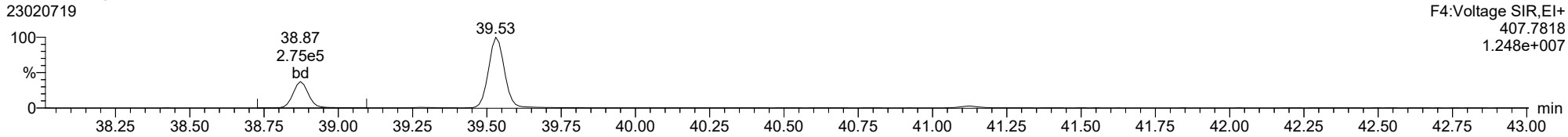

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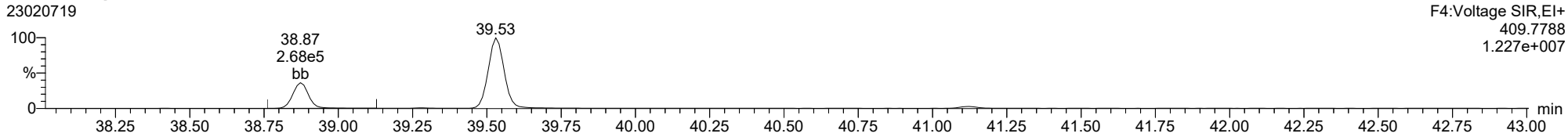

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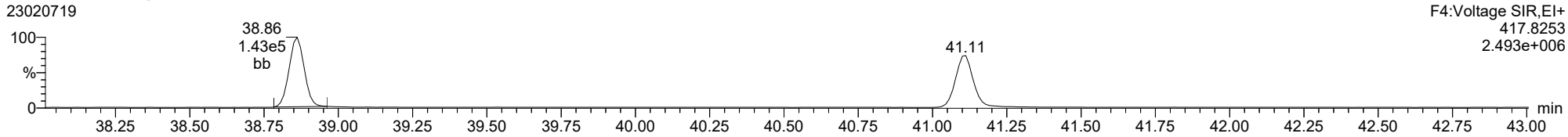

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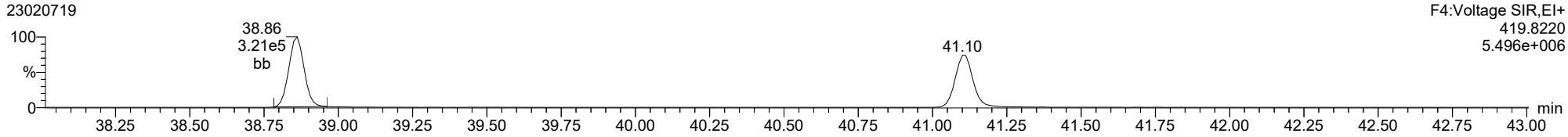

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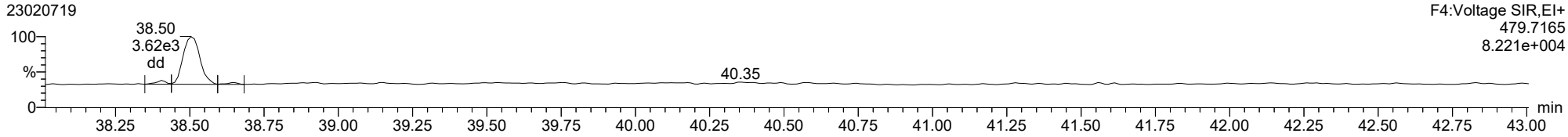

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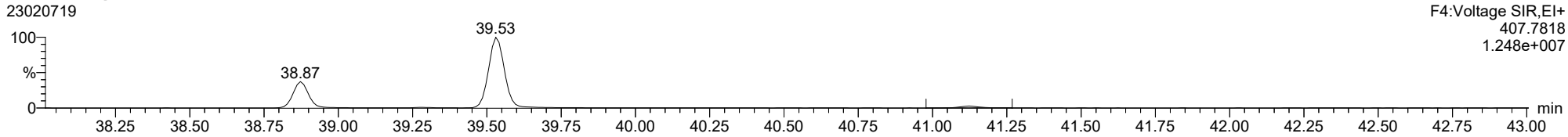

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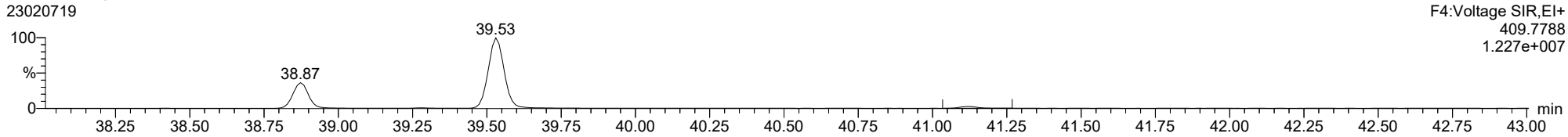

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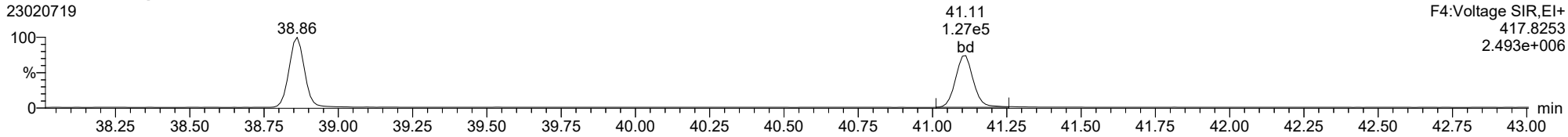

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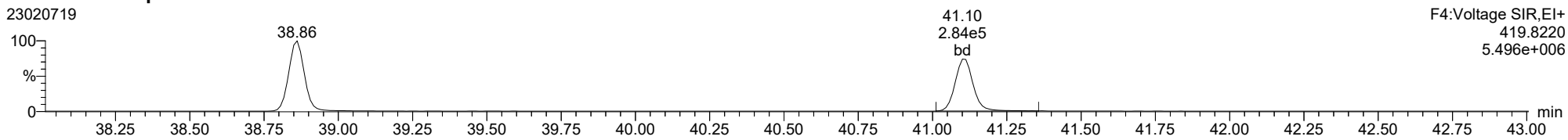

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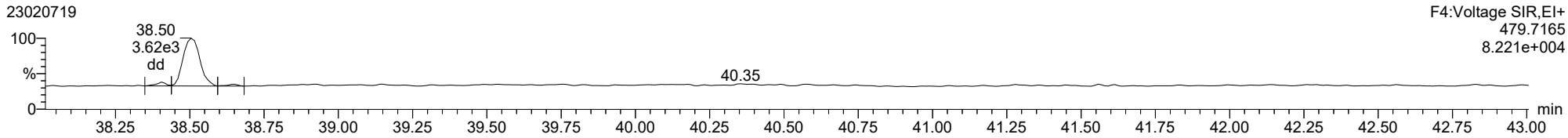

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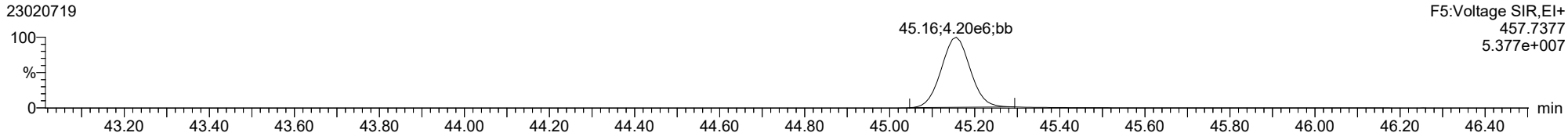

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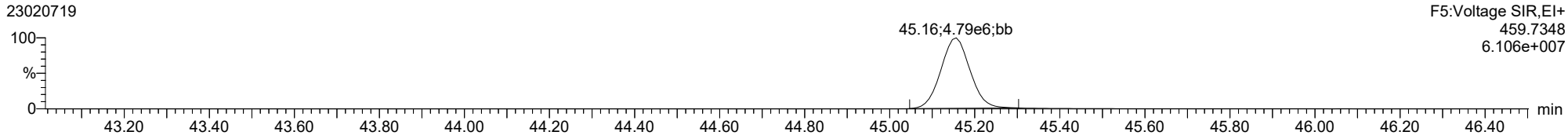

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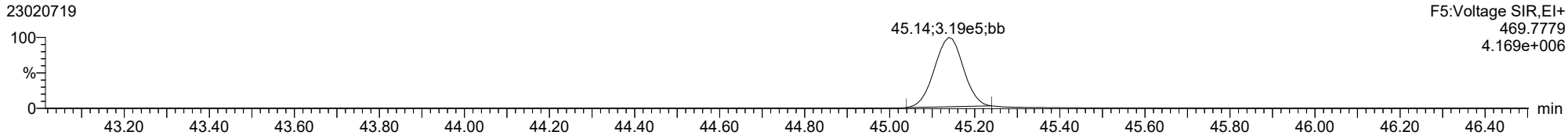

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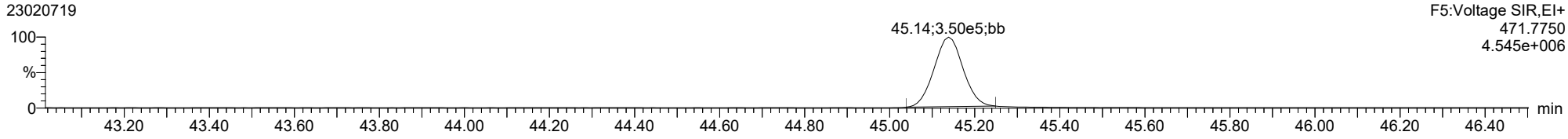

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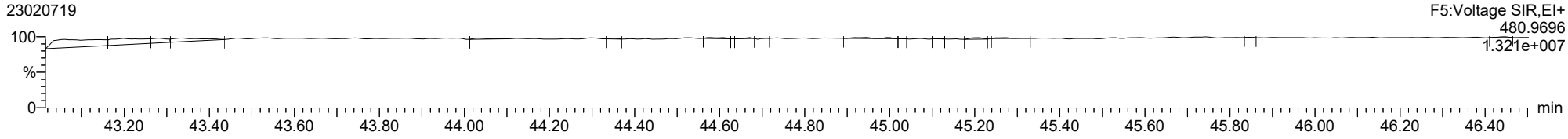

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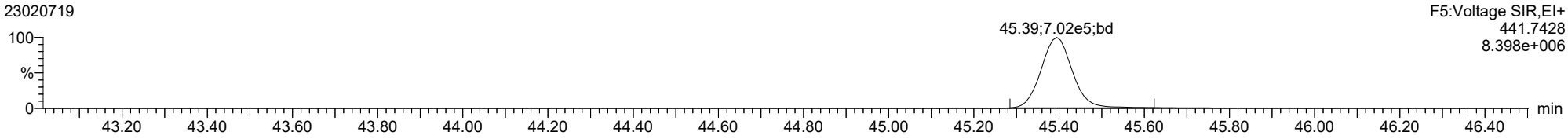

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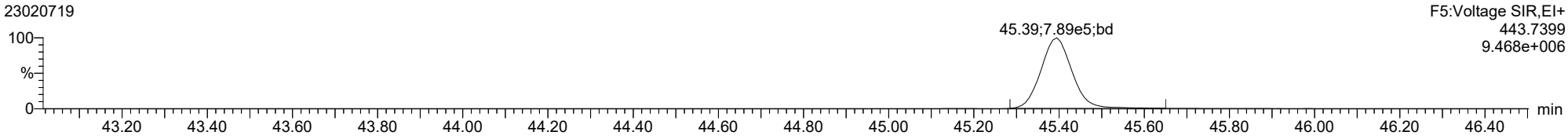

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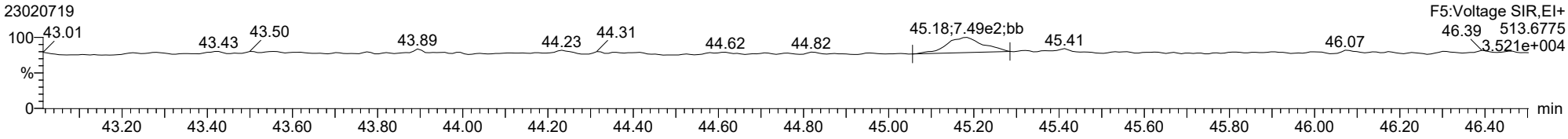

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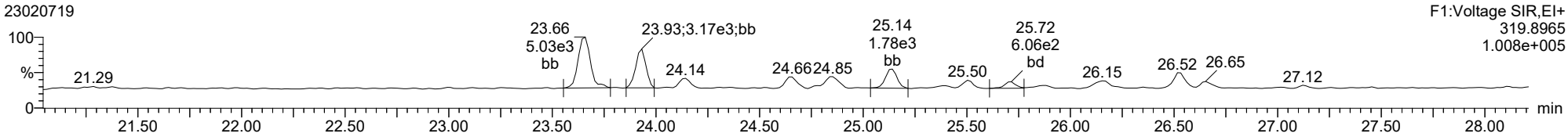

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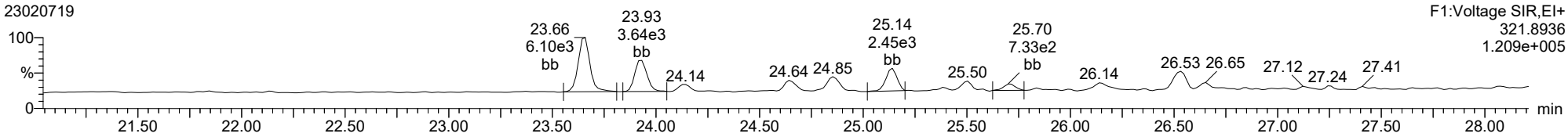

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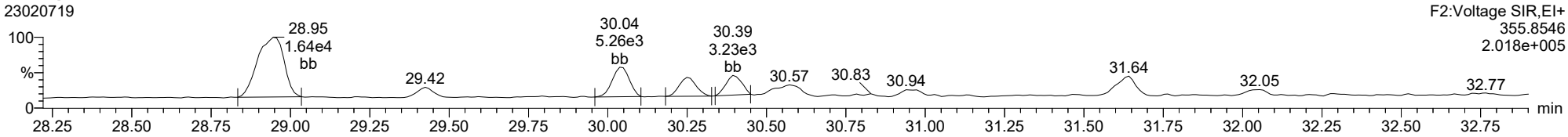

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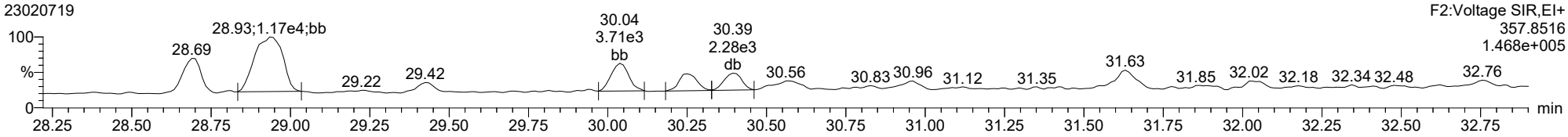

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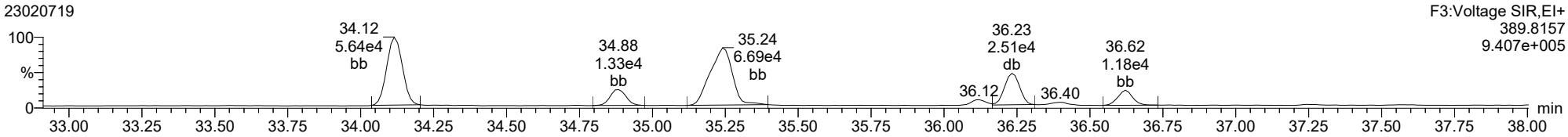

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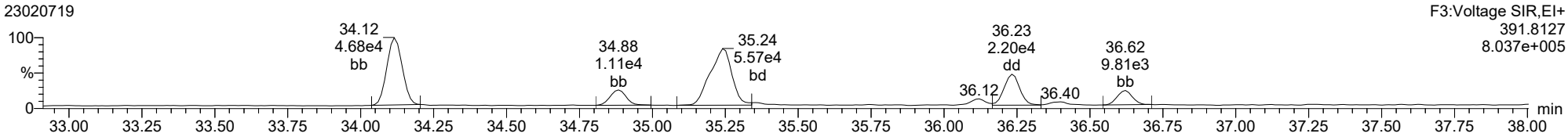

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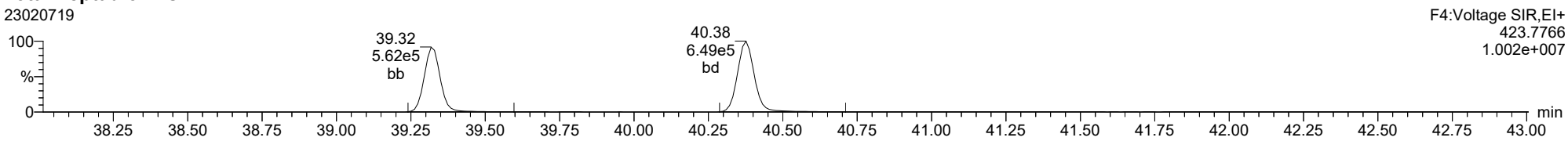

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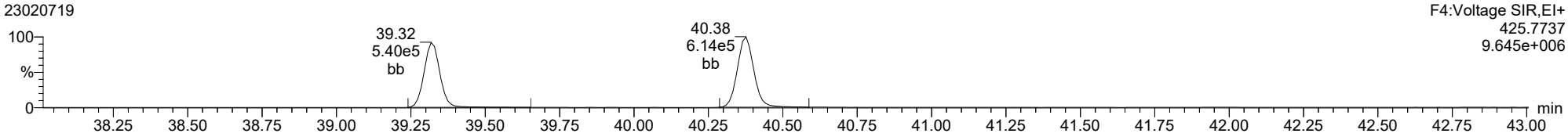

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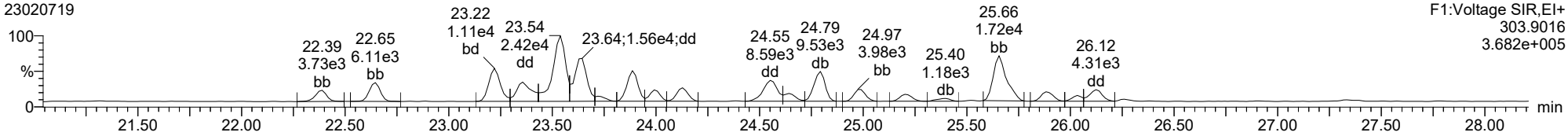
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:32:20 Pacific Standard Time

ID: 22L0459-06, Name: 23020719, Date: 07-Feb-2023, Time: 23:56:36, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



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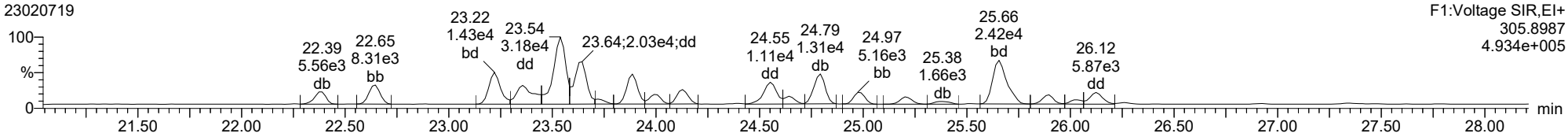

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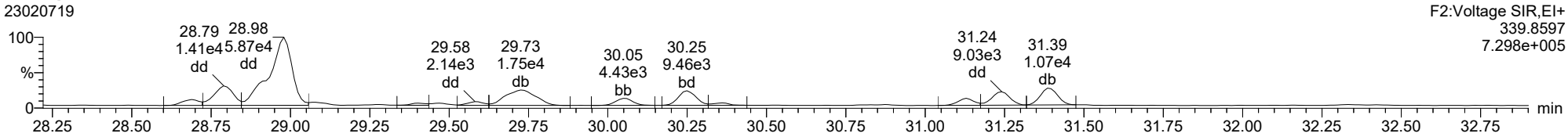

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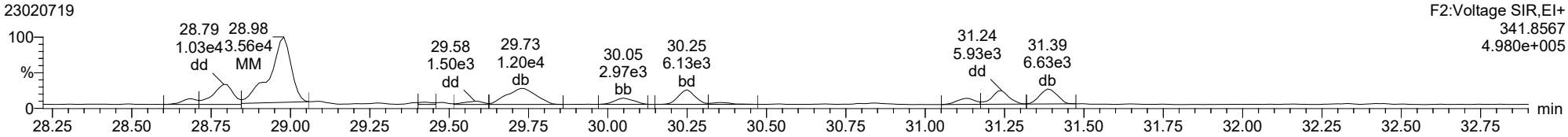

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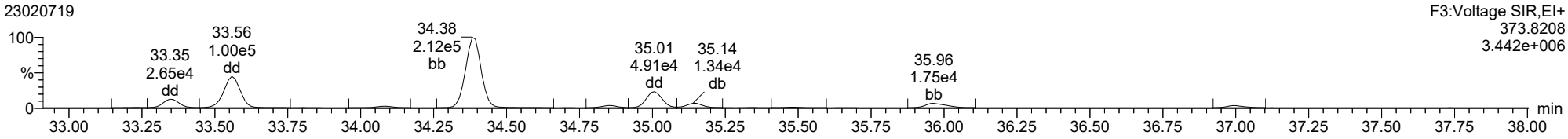
Total-hexafurans



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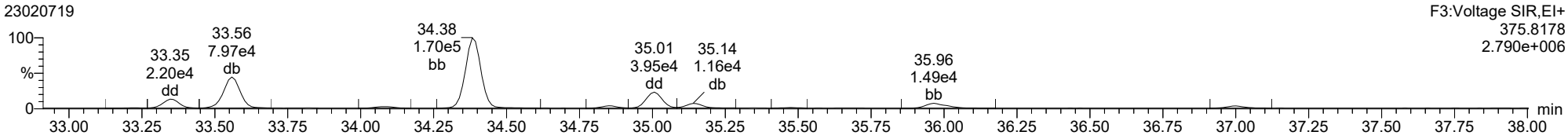

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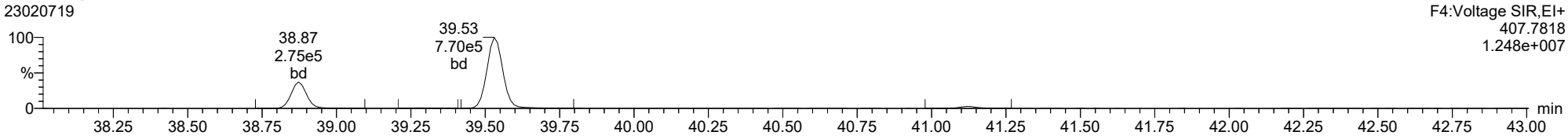

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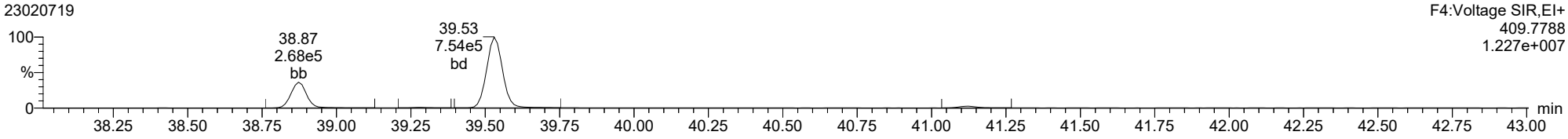


PREPARATION BATCH SUMMARY

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLA0079
Batch Matrix: Solid
Preparation: EPA 1613

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1053C	22L0459-02	23020718	01/09/23 15:50	
LDW23-SC1070B	22L0459-06	23020719	01/09/23 15:50	
Blank	BLA0079-BLK1	23020704	01/09/23 15:50	
LCS	BLA0079-BS1	23020705	01/09/23 15:50	
Reference	BLA0079-SRM1	23020706	01/09/23 15:50	

Analytical Resources, LLC
Analytical Chemists and Consultants

HRGCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A or 1613B

Batch: BLA0079

Solid Samples

ARI Work Orders:	22L0383,22L0417,22L0459,22L0473	
Matrix (circle one)	(Soil) Sediment Oil Tissue	
Extraction Method	Start Date/Time:	End Date/Time:
(Soxhlet) SepF Shake out	1/9/23 15:50	1/10/22 0856

Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Glasswool		J012850	DP	1/12/23
Basic Silica		K002255	DP	1/12/23
Acid Silica		K011912	DP	1/12/23
Activated Florisil		K005956	DP	1/12/23
Balance		24650344	DP	1/9/23
Toluene		K011233	DP	1/9/23
Hexane		K011373	DP	1/10/23
CH2Cl2		K005942	DP	1/12/23
H2SO4		K009796	DP	1/11/23
Na2SO4		K011753	DP	1/9/23
Other (RM)		K011477	DP	1/9/23
0% Silica		K011954	DP	1/12/23
Nonane		400G038	DP	1/13/23

Lab Number & Container	Sample Name	% Solids	Sample Weight Equal to dry (g) (Target Dry)	Actual	RotoVap 45 °C	Water Trap Vol (mL)	Final Vol. (uL)
22L0383-06 C	LDW23-SC1191B	63.76	(15.68)	15.78	(1)/2	5.3	20
22L0383-07 C	LDW23-SC1191B-FD	62.08	(16.11)	16.17	1/(2)	5.5	20
22L0417-01 C	LDW23-SC1064C	61.93	(16.15)	16.18	(1)/2	5.8	20
22L0417-02 C	LDW23-SC1065C	53.77	(18.60)	18.65	1/(2)	8.3	20
22L0417-03 C	LDW23-SC1060D	58.48	(17.10)	17.13	(1)/2	6.1	20
22L0417-04 C	LDW23-SC1059C	57.13	(17.50)	17.54	1/(2)	6.9	20
22L0417-06 C	LDW23-SC1046C	54.02	(18.51)	18.54	(1)/2	7.5	20
22L0417-07 C	LDW23-SC1143C	56.88	(17.58)	17.62	1/(2)	7.1	20
22L0459-02 A	LDW23-SC1053C	59.42	(16.83)	16.83	(1)/2	6.5	20
22L0459-06 A	LDW23-SC1070B	54.78	(18.26)	18.31	1/(2)	8.0	20
22L0473-11 A	LDW21-IT632A	65.83	(15.19)	15.22	(1)/2	4.9	20
BLA0079-BLK1	Blank	100	()	10.01	(1)/2	0.0	20
BLA0079-BS1	LCS	100	()	10.01	1/(2)	0.0	20
BLA0079-DUP1	Duplicate 22L0383-06C	63.76	(15.68)	15.70	(1)/2	5.2	20
BLA0079-SRM1	Reference	100	()	10.00	1/(2)	0.1	20
Prep Analyst / Date:	DP 1/9/23				DP 1/10/23	DP 1/10/23	

Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date	Analyst	Witness	Date
Recovery Standard	1.0 mL	K011158	2/4 ng/mL	12/2/23	DP	TW	1/9/23
OPR	1.0 mL	K000803	0.2/1.0/2.0 ng/mL	6/30/23	DP	TW	1/9/23
~~QLS Standard~~	~~1.0 mL~~		~~0.1/0.5/0.1ng/mL ng/L~~				
Cleanu-up Standard	1.0 mL	K011159	0.8 ng/mL	12/2/23	DP	M	1/12/23

Verify Client ID
Analyst / Date: DP 1/9/23

Acid Clean (Y / N)
Analyst / Date: DP 1/11/23

Silica-Florisil Clean (Y / N)
Analyst / Date: DP 1/12/23

Supervisor Review By — Date: 2/3/23

Printed: 1/5/2023 12:25:39PM

Analytical Resources, LLC
Analytical Chemists and Consultants

HRGCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A or 1613B

Batch: BLA0079

Solid Samples

ARI Work Orders:	22L0383,22L0417,22L0459,22L0473		
Matrix (circle one)	(Soil) Sediment Oil Tissue		
Extraction Method	Start Date/Time:	End Date/Time:	
(Soxhlet) SepF Shake out			

Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Glasswool				
Basic Silica				
Acid Silica				
Activated Florisil				
Balance		24650344		
Toluene				
Hexane				
CH2Cl2				
H2SO4				
Na2SO4				
Other (RM)		K011477		
0% Silica				
Nonane				

Lab Number & Container	Sample Name	% Solids	Sample Weight Equal to dry (g) (Target Dry) Actual	RotoVap 45 °C	Water Trap Vol (mL)	Final Vol. (uL)
22L0383-06 C	LDW23-SC1191B	63.76	(15.68)	1 / 2		20
22L0383-07 C	LDW23-SC1191B-FD	62.08	(16.11)	1 / 2		20
22L0417-01 C	LDW23-SC1064C	61.93	(16.15)	1 / 2		20
22L0417-02 C	LDW23-SC1065C	53.77	(18.60)	1 / 2		20
22L0417-03 C	LDW23-SC1060D	58.48	(17.10)	1 / 2		20
22L0417-04 C	LDW23-SC1059C	57.13	(17.50)	1 / 2		20
22L0417-06 C	LDW23-SC1046C	54.02	(18.51)	1 / 2		20
22L0417-07 C	LDW23-SC1143C	56.88	(17.58)	1 / 2		20
22L0459-02 A	LDW23-SC1053C	59.42	(16.83)	1 / 2		20
22L0459-06 A	LDW23-SC1070B	54.78	(18.26)	1 / 2		20
22L0473-11 A	LDW21-IT632A	65.83	(15.19)	1 / 2		20
BLA0079-BLK1	Blank	100	0	1 / 2		20
BLA0079-BS1	LCS	100	0	1 / 2		20
BLA0079-DUP1	Duplicate 22L0383-06C	63.76	(15.68)	1 / 2		20
BLA0079-SRM1	Reference	100	0	1 / 2		20
Prep Analyst / Date:						

Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date	Analyst	Witness	Date
Recovery Standard	1.0 mL		2/4 ng/mL				
OPR	1.0 mL		0.2/1.0/2.0 ng/mL				
~~QCS Standard~~	~~1.0 mL~~		~~0.1/0.5/0.1ng/mL ng/L~~				
Cleanu-up Standard	1.0 mL		0.8 ng/mL				

Verify Client ID
Analyst / Date:

Acid Clean (Y / N)
Analyst / Date:

Silica-Florisil Clean (Y / N)
Analyst / Date:

Supervisor Review By Date

Printed: 1/5/2023 12:25:39PM

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Dioxin Extraction Laboratory – Glassware

Batch ID: BLA0079 Work Order: 22L0383, 22L0417, 22L0459, 22L0473 Extraction Parameter: Dioxin ARI Analyst DP

ARI Sample ID	300 mL Flat Bottom	Small Soxhlet	Large Soxhlet	250 mL Beaker	Funnel	Column	Florisil Column	Turbo Tube	Sep Funnel	Erlenmeyer Flask	Centrifuge Bottle	Turbo-Vap	Vortex Mixer	Heating Mantle
BLA0079 - BLK1	48	114		33	50	172	128	25				4	4	B4
- BS1	44	57		2	47	145	60	35				4	4	B5
- DUP1	25	111		239	9	21	142	24				4	4	B6
- SRM1	19	116		30	17	27	1	31				4	4	C1
22L0383 - 06C	68	18		49	39	36	164	27				4	4	C2
- 07C	76	21		43	79	30	7	76				4	4	C3
22L0417 - 01C	9	16		34	66	16	59	32				4	4	C4
- 02C	38		24	22	57	29	145	37				4	4	C5
- 03C	11		45	138	26	3	53	10				4	4	C6
- 04C	16		65	12	52	191	55	2				4	4	D1
- 06C	10		62	40	54	170	2	23				4	4	D2
- 07C	87		49	23	65	229	61	54				4	4	D3
22L0459 - 02A	47	1		177	8	212	166	85				4	4	D4
- 06A	86		75	48	6	51	70	53				4	4	D5
22L0473 - 11A	4	19		41	42	11	150	82				4	4	D6
												4	4	
												4	4	
												4	4	
												4	4	
												4	4	
												4	4	
												4	4	
												4	4	

TOTAL SOLIDS BENCHSHEET

Method HRSM01.2

(dry at 110 C)

Instrumentation

Batch:	BLA0004
Date:	
Analyst:	TW
Drying Oven:	18
Analytical Balance:	24650344

Batch drying time

Record times as mm/dd/yy hh:mm

Date/time in oven:	1/3/2023 13:50	111
Date/time out:	1/4/2023 7:35	111
Elapsed hrs:	17.7	

Oven Temp, C

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	111
End Temp:	111

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0383-06	0.7900	11.3300	7.5100	6.72	**63.76%**	No
22L0383-07	0.7900	11.1000	7.1900	6.40	**62.08%**	No
22L0417-01	0.8000	11.4900	7.4200	6.62	**61.93%**	No
22L0417-02	0.8000	11.2700	6.4300	5.63	**53.77%**	No
22L0417-03	0.8000	11.3500	6.9700	6.17	**58.48%**	No
22L0417-04	0.7900	11.1000	6.6800	5.89	**57.13%**	No
22L0417-06	0.7800	11.2400	6.4300	5.65	**54.02%**	No
22L0417-07	0.8000	11.0500	6.6300	5.83	**56.88%**	No
22L0459-02	0.7900	11.4100	7.1000	6.31	**59.42%**	No
22L0459-06	0.7900	11.4700	6.6400	5.85	**54.78%**	No
22L0473-11	0.7900	11.1800	7.6300	6.84	**65.83%**	No

TOTAL SOLIDS BENCHSHEET

Method HRSM01.2

(dry at 110 C)

Batch:	BLA0004
Date:	
Analyst:	TW
Drying Oven:	18
Analytical Balance:	24650344

Instrumentation

Batch drying time

Record times as mm/dd/yy hh:mm

Date/time in oven:	01/03/23	13:50
Date/time out:	01/04/23	07:35
Elapsed hrs:	0.0	

Oven Temp, C: 111 / 111

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	111
End Temp:	111

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0383-06 C	0.79	11.33 ~~11.36~~ TW 1/31/23	7.51			No
22L0383-07 C	0.79	11.18	7.19			No
22L0417-01 C	0.80	11.49	7.42			No
22L0417-02 C	0.80	11.27	6.43			No
22L0417-03 C	0.80	11.35	6.97			No
22L0417-04 C	0.79	11.10	6.68			No
22L0417-06 C	0.78	11.24	6.43			No
22L0417-07 C	0.80	11.05	6.63			No
22L0459-02 A	0.79	11.41	7.10			No
22L0459-06 A	0.79	11.47	6.64			No
22L0473-11 A	0.79	11.18	7.63			No

Analytical Resources Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: Dioxin   Extraction Batch ____

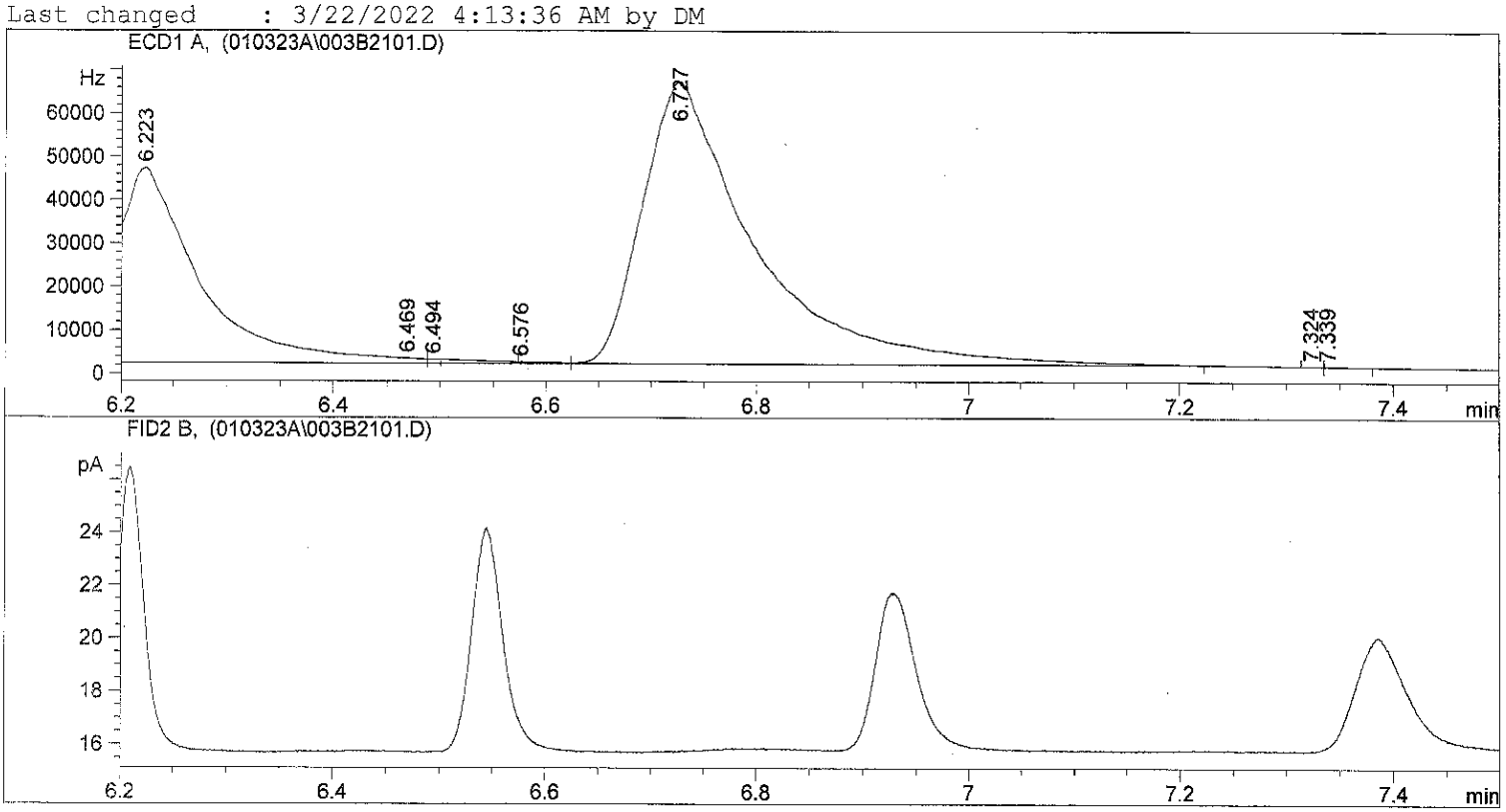
Total Solids Batch: BLA0004   Work Order(s): 22L0383, 417, 459, 473

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☐ No Anomalies (standard soil/wet sediment/sand/gravel)=	
☐ Standing Water Decanted (Not shared)=	
☑ Standing Water Homogenized (Shared samples)= 473-11	TW 1/3/23
☑ Clay/Clumps (Difficult to homogenize)= 383-6,7, 417-01-07, 473-11, 459-2,6 (all Samples)	TW 1/3/23
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☑ Oily, obvious fuel/sulfur odors= 383-6,7, 417-04,07	TW 1/3/23
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☒ Other (Details)= 22L0417-06C : Due to Extracting cycles error, The Rb was not received extracting solvent, only the Shloxlet body had solvent in it.	ML 1/04/23
Aqueous:	
✓ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☐ Share Samples Y / N	
☐ Multiple Jars Y / N	
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

3056F

Revision 15
07/01/19

Injection Date	: 1/3/2023 6:53:23 PM	Seq. Line	: 21
Sample Name	: CS4 STD	Location	: Vial 3
Acq. Operator	: TW	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\2\SEQUENCE\010323A.S		
Method	: C:\HPCHEM\2\METHODS\DIOXIN.M		
Last changed	: 3/22/2022 4:13:36 AM by DM		



Area Percent Report

Sorted By	:	Signal
Multiplier	:	1.0000
Dilution	:	1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.293	BP	0.0000	106.69516	133.59196	0.00380
2	5.389	VP	0.0225	496.67911	266.79819	0.01769
3	5.533	VV S	0.0374	4.58197e5	1.71557e5	16.31798
4	5.627	VV S	0.0533	6.82990e5	2.13734e5	24.32365
5	5.689	VV S	0.0414	2.19052e5	8.82179e4	7.80119
6	5.736	VV S	0.0782	3.13360e5	6.67528e4	11.15984
7	5.984	VV S	0.0459	2.60904e5	6.97312e4	9.29169
8	6.140	VV S	0.0571	1.54606e5	4.51472e4	5.50608
9	6.223	VV S	0.0906	2.44631e5	4.49807e4	8.71216
10	6.469	BV T	7.53e-3	30.57404	67.63464	0.00109
11	6.494	PB T	5.06e-3	11.95522	31.28901	0.00043
12	6.576	BB T	5.24e-3	9.54696	30.39002	0.00034
13	6.727	PB S	0.0860	4.73478e5	6.51325e4	16.86221
14	7.324	PV	9.15e-3	18.31886	25.00640	0.00065
15	7.339	VP	0.0139	32.77481	28.73493	0.00117
16	7.690	PB	0.0000	9.49007e-1	6.44988	3.380e-5

Totals : 2.80792e6 7.65844e5

Results obtained with enhanced integrator!

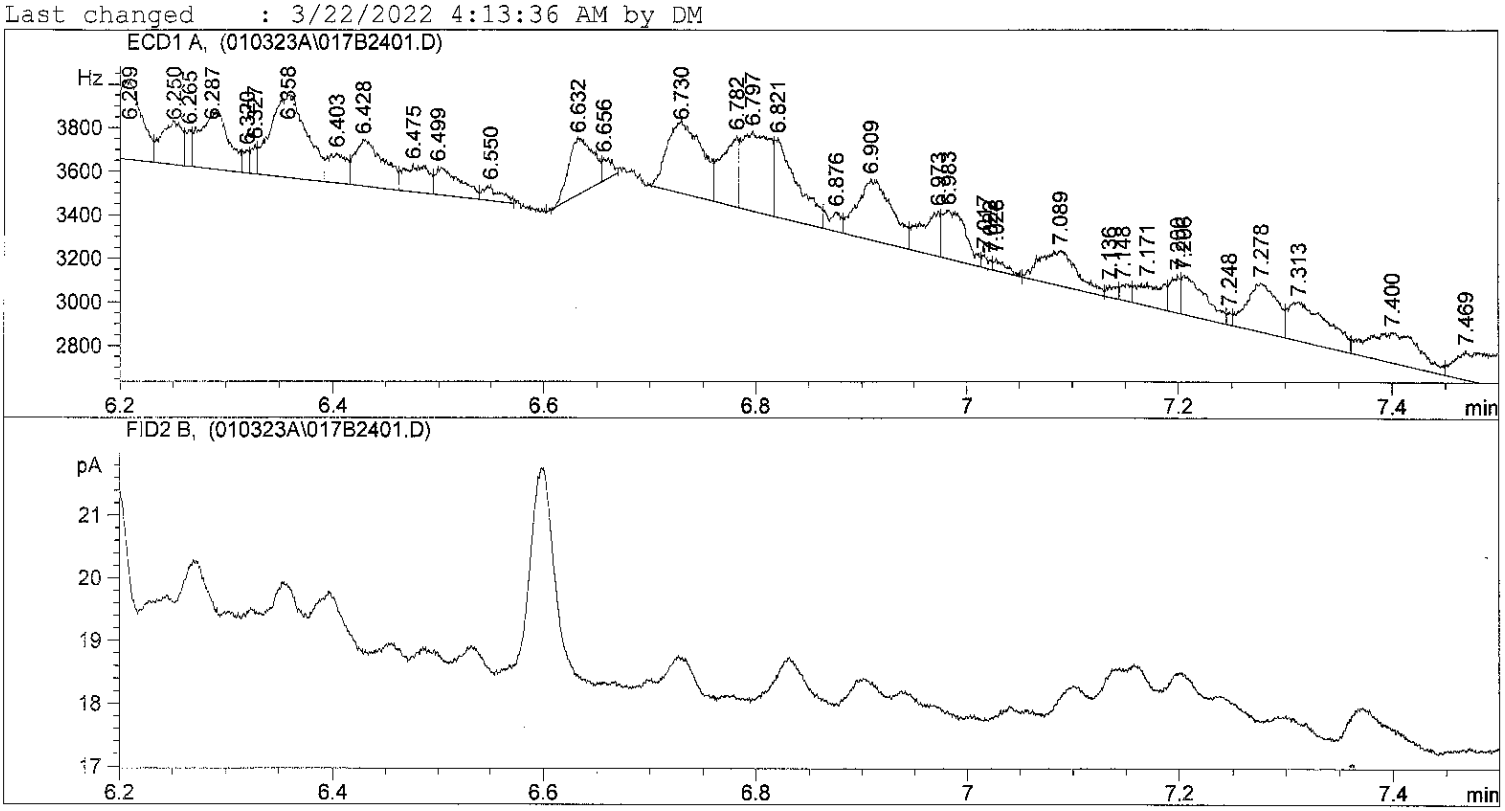
Signal 2: FID2 B,

==========

*** End of Report ***

Injection Date : 1/3/2023 7:26:35 PM Seq. Line : 24
Sample Name : 22L0383 06 Location : Vial 17
Acq. Operator : TW Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\010323A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 3/22/2022 4:13:36 AM by DM



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.252	BV	0.0270	2450.94556	1123.83521	6.42335
2	5.295	VV	0.0124	160.12622	166.60695	0.41965
3	5.321	VB	8.69e-3	71.05394	107.74626	0.18622
4	5.333	BV	3.41e-3	38.29887	158.95576	0.10037
5	5.337	VV	5.05e-3	53.81184	166.90117	0.14103
6	5.342	VV	5.77e-3	76.14543	171.91643	0.19956
7	5.374	VV	0.0165	635.90656	478.97159	1.66656
8	5.402	VV	5.81e-3	52.16253	126.50735	0.13671
9	5.447	VV	0.0229	1201.29163	632.99457	3.14830
10	5.474	VV	0.0192	2213.41040	1539.55225	5.80083
11	5.511	VV	0.0188	869.61145	564.24060	2.27905
12	5.547	VP	2.29e-3	3.26185	22.53971	0.00855
13	5.582	VV	0.0223	912.98236	495.29980	2.39271
14	5.624	VV	0.0295	2188.48071	949.16693	5.73549
15	5.689	VV	0.0281	2970.34375	1268.96704	7.78457
16	5.753	VV	0.0226	1683.81140	927.41345	4.41287
17	5.785	VV	0.0118	350.53735	364.49149	0.91868

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.814	VV	0.0245	939.88428	463.16354	2.46321
19	5.866	VV	0.0232	1323.90674	700.67627	3.46965
20	5.891	VV	8.65e-3	210.66354	406.06088	0.55210
21	5.909	VV	0.0177	631.39270	468.25397	1.65473
22	5.942	VV	0.0142	803.41187	691.57275	2.10555
23	5.952	VV	0.0216	1223.11633	722.34296	3.20550
24	6.006	VV	0.0368	2246.80664	731.39362	5.88835
25	6.036	VV	0.0171	782.19550	552.45636	2.04995
26	6.075	VV	0.0136	303.25388	272.73669	0.79476
27	6.090	VV	4.57e-3	87.45538	270.30881	0.22920
28	6.113	VV	0.0161	442.93610	338.00369	1.16083
29	6.123	VV	0.0148	359.00482	332.78226	0.94087
30	6.146	VV	0.0105	143.06818	226.66055	0.37495
31	6.209	VV	0.0402	1189.56226	361.60034	3.11756
32	6.250	VV	0.0165	268.63269	200.11443	0.70402
33	6.265	VV	5.34e-3	71.18099	168.03104	0.18655
34	6.287	VV	0.0226	506.86343	268.41742	1.32837
35	6.320	VV	5.56e-3	42.89101	105.11924	0.11241
36	6.327	VV	4.61e-3	46.18874	134.50960	0.12105
37	6.358	VV	0.0284	897.90948	380.03348	2.35321
38	6.403	VV	0.0152	167.65300	137.60904	0.43938
39	6.428	VV	0.0230	408.28702	212.91710	1.07002
40	6.475	VV	0.0193	199.73030	124.84668	0.52345
41	6.499	VB	0.0205	215.91005	126.54025	0.56585
42	6.550	BB	0.0139	78.91711	70.45654	0.20682
43	6.632	PV	0.0188	406.51639	260.31357	1.06538
44	6.656	VB	7.53e-3	62.10795	104.61562	0.16277
45	6.730	PV	0.0272	759.69287	332.99802	1.99098
46	6.782	VV	0.0133	356.04651	327.50986	0.93311
47	6.797	VV	0.0221	669.80493	366.50922	1.75540
48	6.821	VB	0.0253	547.92126	360.81329	1.43597
49	6.876	BV	0.0113	80.21185	91.01910	0.21022
50	6.909	VV	0.0277	644.96759	278.09946	1.69031
51	6.973	VV	0.0150	256.82700	207.49214	0.67308
52	6.983	VV	0.0201	357.58542	223.36781	0.93715
53	7.017	VV	4.23e-3	19.27159	61.98693	0.05051
54	7.022	VV	3.25e-3	9.30879	44.39545	0.02440
55	7.028	VP	9.29e-3	42.97784	56.40430	0.11263
56	7.089	VV	0.0290	394.05838	163.31430	1.03273
57	7.136	VV	8.89e-3	37.52074	52.82019	0.09833
58	7.148	VB	9.00e-3	48.59481	69.12946	0.12736
59	7.171	BV	0.0205	184.83725	107.50410	0.48441
60	7.200	VV	8.98e-3	110.48597	170.02904	0.28956
61	7.206	VV	0.0194	285.38571	179.10814	0.74793
62	7.248	VV	4.28e-3	17.34392	58.19840	0.04545
63	7.278	VV	0.0239	448.35416	224.36079	1.17503
64	7.313	VV	0.0324	479.79926	178.39676	1.25744
65	7.400	VV	0.0408	479.40845	139.73352	1.25642
66	7.469	VP	0.0673	746.45129	130.63057	1.95627
67	7.621	VV	0.0383	935.74780	289.88376	2.45237
68	7.688	VB	0.0135	109.03802	98.91035	0.28576
69	7.711	BB	0.0139	103.80149	92.27792	0.27204
70	7.775	PBA	0.0141	39.74480	37.81453	0.10416
Totals :				3.81568e4	2.24404e4	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

```
==============================================================================
Injection Date  : 1/3/2023 7:37:33 PM          Seq. Line :  25
Sample Name     : 22L0383 07                    Location : Vial 18
Acq. Operator   : TW                               Inj :  1
                                              Inj Volume : 1 µl

Sequence File   : C:\HPCHEM\2\SEQUENCE\010323A.S
Method          : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed    : 3/22/2022 4:13:36 AM by DM
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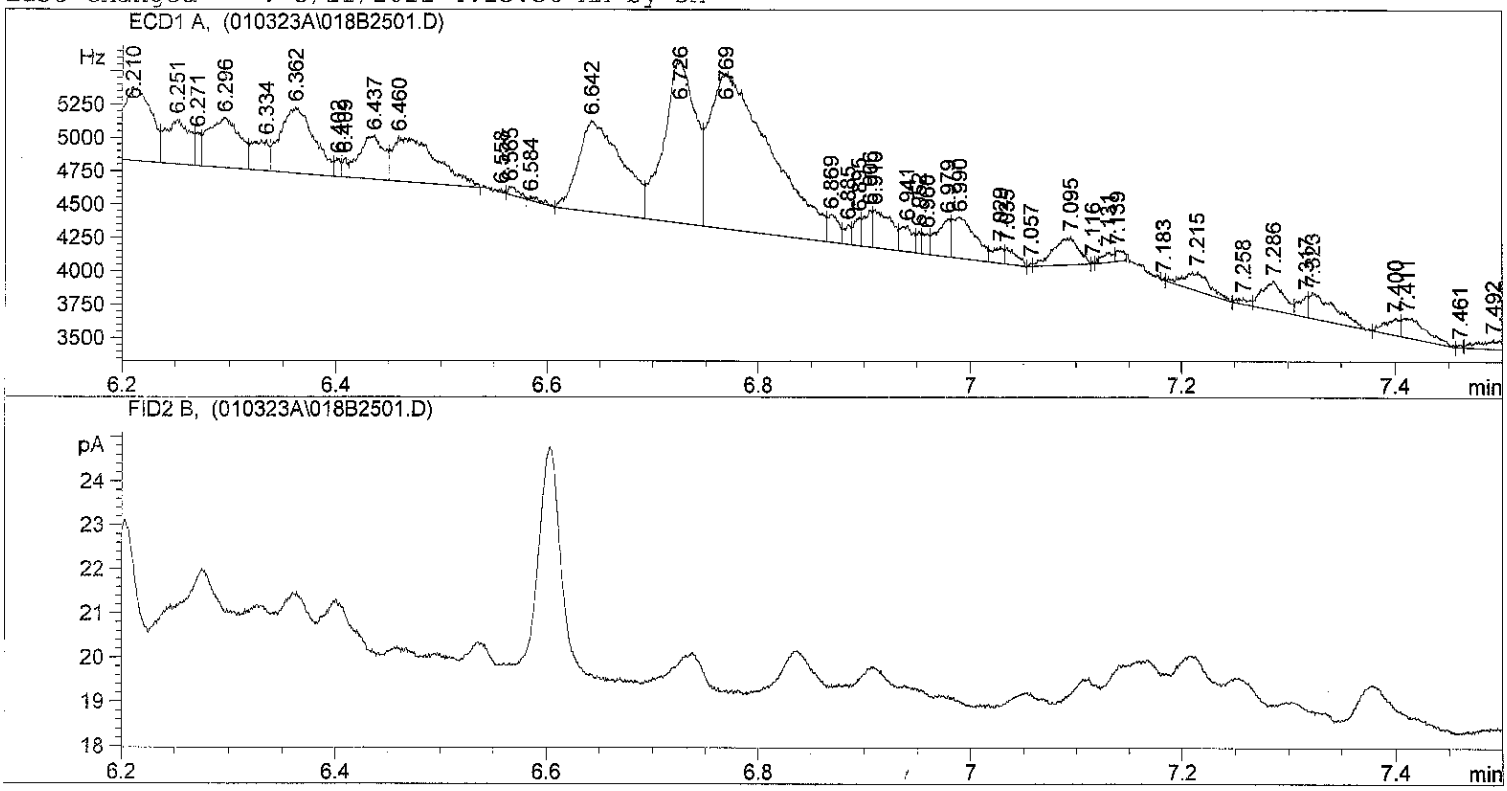


```
==============================================================================
                          Area Percent Report
==============================================================================

Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: ECD1 A,

Peak RetTime Type  Width     Area      Height     Area
  #   [min]        [min]   [Hz*s]      [Hz]       %
----|-------|----|-------|----------|----------|--------|
   1   5.232 BP    0.0213 1684.61792  957.56555  2.88219
   2   5.294 VV   4.71e-3   39.94383  113.36611  0.06834
   3   5.299 VP    0.0142  168.08362  143.72072  0.28757
   4   5.335 VV   3.83e-3   15.85341   57.18743  0.02712
   5   5.341 VP   7.52e-3   33.72766   74.73104  0.05770
   6   5.376 VV    0.0163  922.93066  676.29639  1.57903
   7   5.396 VV   5.63e-3  181.24162  437.61221  0.31008
   8   5.418 VV    0.0145  624.60181  531.85553  1.06862
   9   5.444 VV    0.0208 1970.90027 1138.21631  3.37199
  10   5.476 VV    0.0202 2758.14258 1827.19617  4.71887
  11   5.510 VP    0.0159  900.05322  696.83539  1.53989
  12   5.578 VV    0.0151  719.93549  587.57928  1.23173
  13   5.585 VV    0.0127  623.21674  599.63818  1.06625
  14   5.603 VV   7.57e-3  206.11601  453.93466  0.35264
  15   5.627 VV    0.0241 2879.85010 1507.44995  4.92710
  16   5.690 VV    0.0293 4849.80420 2002.56982  8.29747
  17   5.756 VV    0.0304 3490.87598 1424.57935  5.97250
```

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.815	VV	0.0257	1670.11841	790.12988	2.85738
19	5.870	VV	0.0256	2301.94922	1075.04114	3.93838
20	5.920	VV	0.0207	1473.08057	864.57544	2.52028
21	5.952	VV	0.0298	2795.62646	1130.79309	4.78300
22	5.985	VV	0.0170	1399.56165	1017.54797	2.39449
23	6.007	VV	0.0379	3699.03369	1157.85986	6.32863
24	6.075	VV	5.57e-3	166.80553	445.41602	0.28539
25	6.081	VV	7.04e-3	187.80779	444.34860	0.32132
26	6.106	VV	0.0229	1073.90320	556.15820	1.83733
27	6.126	VV	0.0138	473.34399	425.66760	0.80984
28	6.167	VV	0.0150	485.74390	393.59265	0.83105
29	6.179	VV	7.89e-3	257.18851	411.46957	0.44002
30	6.182	VV	5.47e-3	174.56401	418.57196	0.29866
31	6.191	VV	5.06e-3	110.79615	364.84927	0.18956
32	6.210	VV	0.0232	1073.10132	553.63495	1.83596
33	6.251	VV	0.0184	522.35718	338.03543	0.89369
34	6.271	VV	6.27e-3	93.09422	247.38924	0.15927
35	6.296	VV	0.0247	758.70325	373.58075	1.29806
36	6.334	VV	0.0130	241.66554	227.97163	0.41346
37	6.362	VV	0.0263	1089.22803	494.96872	1.86355
38	6.402	VV	5.67e-3	53.50683	133.71298	0.09154
39	6.409	VV	4.65e-3	45.90274	139.10635	0.07853
40	6.437	VV	0.0195	524.04456	326.18890	0.89658
41	6.460	VP	0.0345	971.60590	333.99936	1.66231
42	6.558	BV	3.95e-3	5.63538	23.76278	0.00964
43	6.565	VP	8.15e-3	39.67926	59.72974	0.06789
44	6.584	VP	0.0110	26.17821	28.84491	0.04479
45	6.642	VV	0.0347	1990.42053	688.42834	3.40539
46	6.726	VV	0.0254	2546.03223	1216.15454	4.35597
47	6.769	VV	0.0474	4714.84473	1170.33044	8.06657
48	6.869	VV	9.40e-3	150.55800	209.19156	0.25759
49	6.885	VV	6.17e-3	64.19337	144.72658	0.10983
50	6.895	VV	6.78e-3	103.44212	216.25562	0.17698
51	6.906	VV	7.41e-3	151.27454	275.25363	0.25881
52	6.910	VV	0.0145	334.32410	280.55219	0.57199
53	6.941	VV	0.0116	160.57239	191.22858	0.27472
54	6.952	VV	4.05e-3	48.06670	162.68111	0.08224
55	6.960	VV	5.72e-3	68.04446	155.16284	0.11642
56	6.979	VV	0.0110	251.12019	285.93457	0.42964
57	6.990	VV	0.0192	461.71121	306.26978	0.78994
58	7.029	VV	8.74e-3	87.43252	125.32603	0.14959
59	7.035	VP	9.43e-3	91.13599	120.40237	0.15592
60	7.057	VV	2.24e-3	3.84664	28.66651	0.00658
61	7.095	VP	0.0198	343.19846	208.28479	0.58717
62	7.116	VV	1.63e-3	1.54139	17.49490	0.00264
63	7.131	VV	9.86e-3	53.39183	73.64507	0.09135
64	7.139	VB	6.40e-3	42.27280	82.16167	0.07232
65	7.183	PP	4.89e-4	3.74189e-1	12.75010	0.00064
66	7.215	VP	0.0200	230.16350	141.07365	0.39378
67	7.258	VV	0.0117	33.68524	45.36891	0.05763
68	7.286	VV	0.0175	311.92181	218.09323	0.53366
69	7.317	VV	7.53e-3	92.06932	159.68367	0.15752
70	7.323	VP	0.0202	334.92404	197.10120	0.57302
71	7.400	VV	0.0120	116.72746	124.05910	0.19971
72	7.411	VP	0.0200	241.79068	150.04805	0.41368
73	7.461	VV	4.89e-3	6.84189	20.49693	0.01171
74	7.492	VV	0.0220	127.60023	71.02222	0.21831
75	7.514	VB	0.0109	67.46964	76.27975	0.11543
76	7.587	PV	4.23e-3	18.85674	57.37859	0.03226
77	7.629	VV	0.0420	957.56995	271.43637	1.63829
78	7.684	VV	8.19e-3	77.58992	125.82802	0.13275
79	7.697	VV	6.86e-3	56.17827	112.55547	0.09611
80	7.702	VV	9.49e-3	91.49203	117.44596	0.15653
81	7.718	VB	0.0100	79.24531	102.35873	0.13558
82	7.735	BB	0.0158	89.95752	94.80706	0.15391

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.758	BV	6.91e-3	24.54749	46.87543	0.04200
84	7.768	VP	5.24e-3	13.24978	33.30943	0.02267
85	7.786	VV	6.12e-3	15.28986	32.29089	0.02616
86	7.796	VV	5.27e-3	10.10767	24.20868	0.01729

Totals : 5.84492e4 3.41999e4

Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

```
Injection Date  : 1/3/2023 7:48:46 PM          Seq. Line :  26
Sample Name     : 22L0417 01                   Location : Vial 19
Acq. Operator   : TW                               Inj :  1
                                             Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\2\SEQUENCE\010323A.S
Method          : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed    : 3/22/2022 4:13:36 AM by DM
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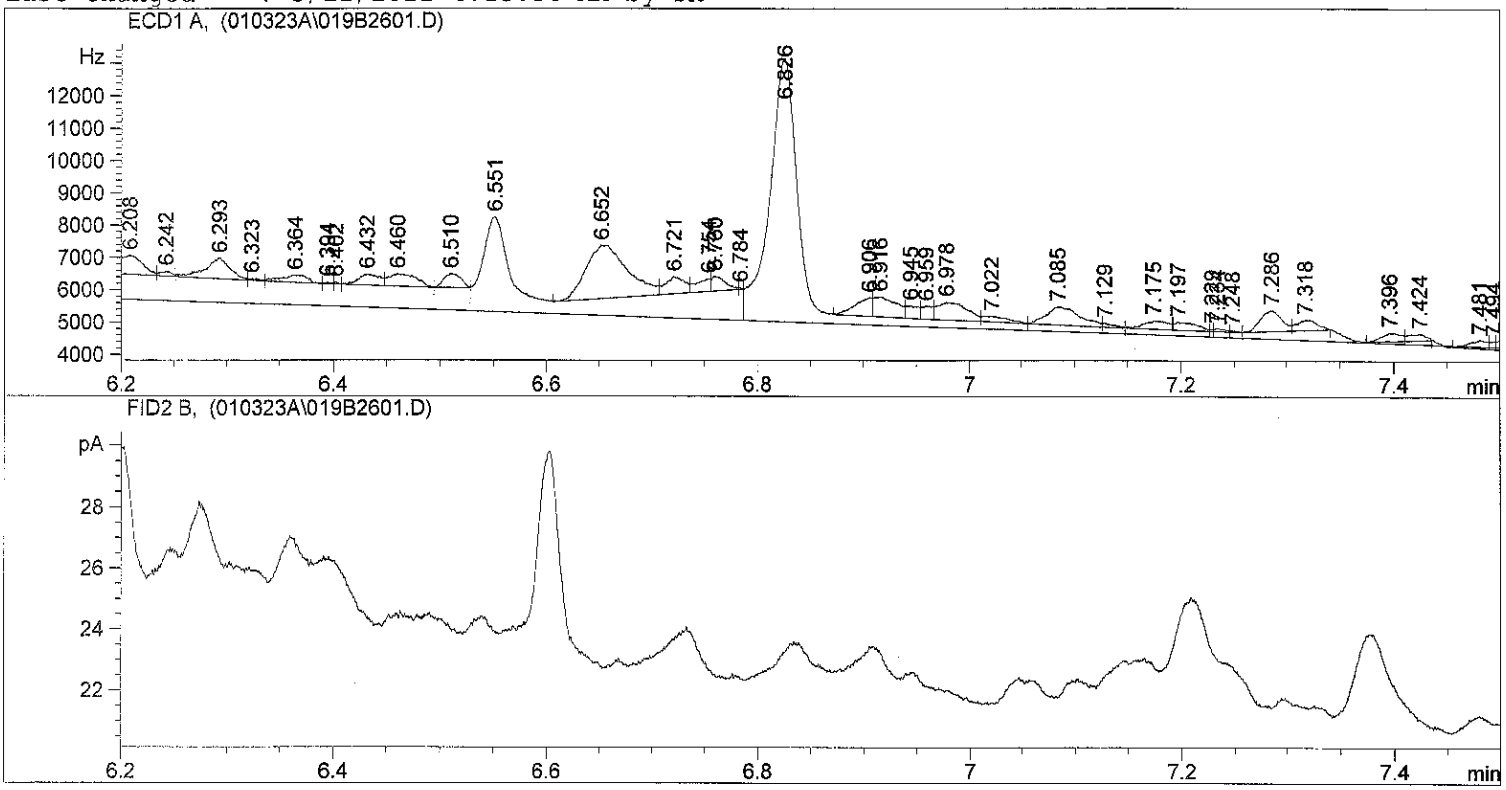

Area Percent Report

```
Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
```

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.230	BV	5.91e-3	24.68250	56.33179	0.01602
2	5.255	VV	0.0119	275.69089	283.44885	0.17895
3	5.275	VV	0.0148	408.04962	361.02008	0.26487
4	5.292	VV	4.84e-3	101.26926	292.54236	0.06573
5	5.306	VP	0.0144	349.58273	300.41406	0.22692
6	5.335	VV	8.58e-3	63.12813	94.62982	0.04098
7	5.375	VV S	0.0190	4051.58032	3077.67187	2.62991
8	5.436	VV S	0.0368	5897.83301	2667.69482	3.82832
9	5.475	VV S	0.0216	1.08532e4	8386.48340	7.04488
10	5.510	VV S	0.0655	6087.33203	1549.42615	3.95133
11	5.567	BV T	0.0108	115.82748	137.64966	0.07518
12	5.596	PV T	0.0173	939.62799	700.34326	0.60992
13	5.627	VV T	0.0110	232.52567	266.10602	0.15093
14	5.642	VV T	0.0137	267.42661	237.70604	0.17359
15	5.695	VV S	0.0241	6390.44824	3316.06396	4.14808
16	5.756	VV S	0.0228	1.34900e4	8444.02539	8.75647
17	5.814	VV S	0.4372	4.00127e4	1525.22705	25.97249

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.871	BV T	0.0180	1355.63147	931.12506	0.87995
19	5.897	VV T	7.53e-3	123.56402	243.10060	0.08021
20	5.907	VV T	0.0138	260.41104	249.22330	0.16903
21	5.950	VV T	0.0211	2348.76343	1339.17993	1.52460
22	5.987	VV T	0.0150	1412.71155	1163.36353	0.91700
23	5.995	VV T	5.20e-3	359.96402	1152.62598	0.23366
24	6.006	VV T	0.0164	1891.61426	1417.66553	1.22786
25	6.036	VB T	7.79e-3	113.86689	243.69109	0.07391
26	6.078	BV T	4.37e-3	30.93735	91.02296	0.02008
27	6.092	PV T	8.64e-3	158.78839	224.73283	0.10307
28	6.103	PV T	0.0175	334.15649	239.21234	0.21690
29	6.132	PV T	7.43e-3	62.99151	107.58592	0.04089
30	6.156	PV T	5.72e-3	68.23988	155.60374	0.04429
31	6.162	PV T	3.81e-3	58.13762	211.49760	0.03774
32	6.166	PV T	0.0114	161.60942	235.57347	0.10490
33	6.208	PV T	0.0244	1161.11426	579.48273	0.75369
34	6.242	PV T	8.36e-3	108.04767	158.35753	0.07013
35	6.293	PV T	0.0202	1027.83923	631.39526	0.66718
36	6.323	PV T	6.42e-3	30.40423	60.96338	0.01974
37	6.364	PV T	0.0205	375.34189	225.01843	0.24364
38	6.394	PV T	4.63e-3	17.05779	61.42159	0.01107
39	6.402	PV T	4.12e-3	15.01756	60.81511	0.00975
40	6.432	PV T	0.0169	473.09583	337.79126	0.30709
41	6.460	PV T	0.0215	677.88739	382.65698	0.44002
42	6.510	PV T	0.0133	466.15817	420.41422	0.30259
43	6.551	PV S	0.0549	1.28785e4	2926.01440	8.35953
44	6.652	BV T	0.0327	4472.78027	1636.53918	2.90331
45	6.721	PV T	0.0157	660.39813	524.52802	0.42867
46	6.754	PV T	0.0118	378.25354	392.78055	0.24553
47	6.760	PV T	0.0108	386.30103	449.77249	0.25075
48	6.784	PV T	2.85e-3	7.82699	45.70295	0.00508
49	6.826	PBAS	0.0327	2.00523e4	8097.87207	13.01612
50	6.906	BV T	0.0135	629.17187	569.33478	0.40840
51	6.916	PV T	0.0182	926.77106	613.60876	0.60157
52	6.945	PV T	0.0109	319.31351	391.93164	0.20727
53	6.959	PV T	8.80e-3	279.70242	397.99298	0.18156
54	6.978	PV T	0.0231	1059.49207	548.44366	0.68772
55	7.022	PV T	0.0286	305.18588	177.66780	0.19810
56	7.085	PV T	0.0265	1225.82190	551.74371	0.79569
57	7.129	PV T	0.0119	90.28880	126.26422	0.05861
58	7.175	PV T	0.0191	406.97525	257.13571	0.26417
59	7.197	PV T	0.0184	367.34708	246.08809	0.23845
60	7.229	PV T	3.34e-3	13.63029	68.01032	0.00885
61	7.234	PV T	7.73e-3	56.77963	90.34353	0.03686
62	7.248	PV T	7.29e-3	20.43220	46.70951	0.01326
63	7.286	PV T	0.0177	909.39069	636.14386	0.59029
64	7.318	PB T	0.0163	427.60721	320.96536	0.27756
65	7.396	BV T	0.0146	322.45874	269.19769	0.20931
66	7.424	PB T	0.0144	237.32335	201.25768	0.15405
67	7.481	BV T	0.0141	305.61615	263.15656	0.19838
68	7.494	PV T	4.96e-3	88.94018	237.76796	0.05773
69	7.505	PV T	0.0224	625.69580	337.90985	0.40614
70	7.545	PV T	0.0116	81.83270	117.11102	0.05312
71	7.559	PV T	9.85e-3	38.96327	65.89465	0.02529
72	7.628	PV T	0.0376	2502.83813	793.33722	1.62461
73	7.678	PV T	0.0136	217.66496	267.11130	0.14129
74	7.713	PV T	0.0305	1033.17249	400.56250	0.67064
75	7.784	PBAT	0.0135	74.78618	67.45296	0.04854
Totals :				1.54058e5	6.47567e4	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

```
Injection Date  : 1/3/2023 8:00:00 PM          Seq. Line :  27
Sample Name     : 22L0417 02                   Location : Vial 20
Acq. Operator   : TW                              Inj :   1
                                               Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\2\SEQUENCE\010323A.S
Method          : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed    : 3/22/2022 4:13:36 AM by DM
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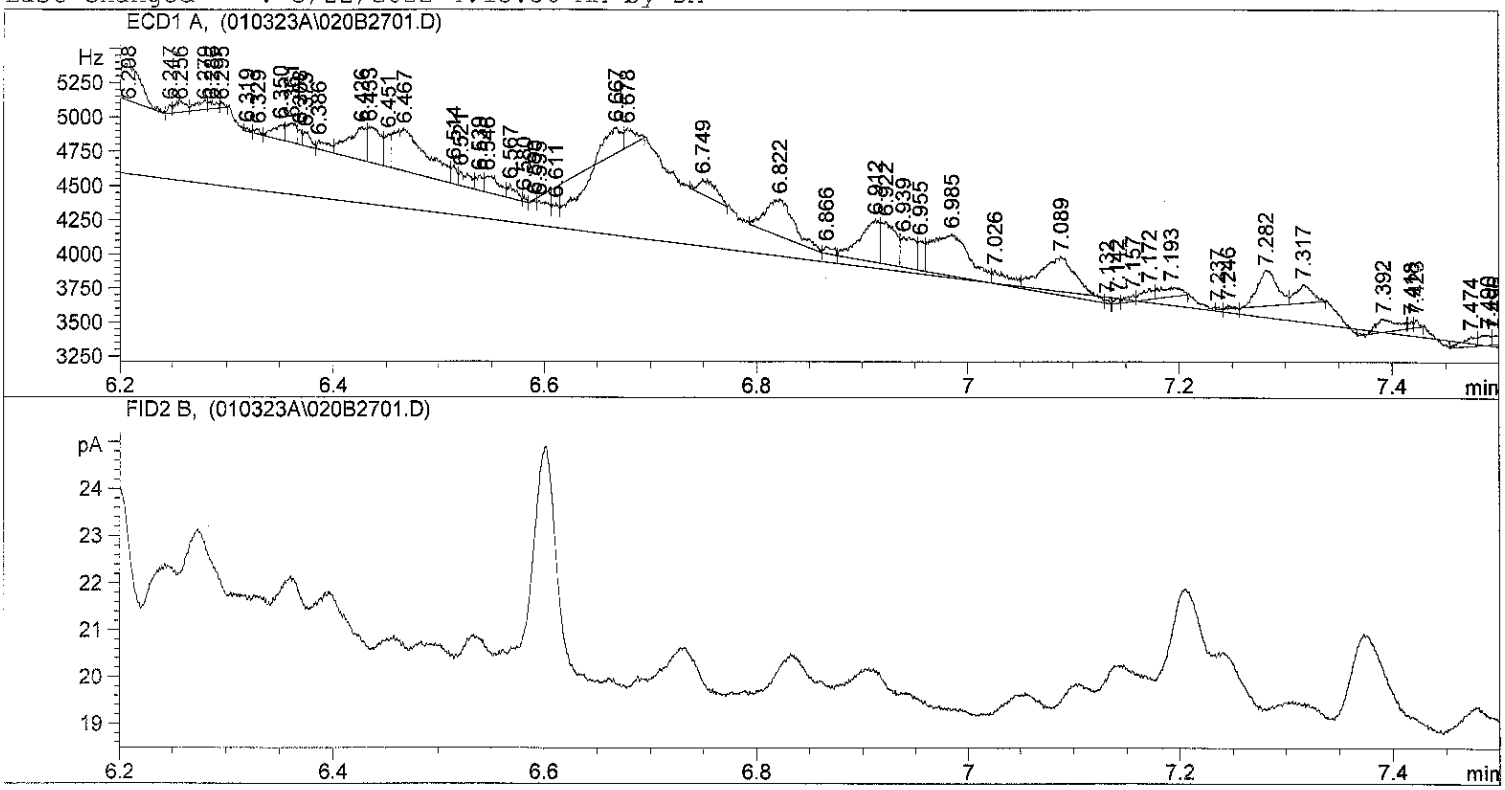

Area Percent Report

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Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.251	BV	9.26e-3	276.96835	373.18265	0.36277
2	5.255	VV	8.80e-3	251.85010	376.80887	0.32987
3	5.277	VV	0.0139	422.32547	369.32712	0.55316
4	5.295	VV	0.0221	611.53217	345.63043	0.80098
5	5.337	VV	0.0117	211.31038	235.74831	0.27677
6	5.375	VV	0.0265	2176.01953	974.41077	2.85013
7	5.440	VV	0.0279	3501.93042	1532.31299	4.58679
8	5.474	VV S	0.0213	4432.32520	2795.30420	5.80542
9	5.513	VV S	0.1284	8948.80957	1161.95850	11.72106
10	5.551	BV T	0.0000	3.82385	54.36681	0.00501
11	5.596	VV T	0.0166	541.52283	393.93723	0.70928
12	5.633	VV T	0.0108	184.91754	215.76775	0.24220
13	5.638	VV T	4.27e-3	61.37474	195.30759	0.08039
14	5.645	VV T	0.0100	173.84305	211.05853	0.22770
15	5.694	VV T	0.0145	979.65356	860.88092	1.28314
16	5.725	VV T	4.72e-3	9.83143	34.69835	0.01288
17	5.755	VV S	0.0257	5930.70850	3182.90601	7.76798

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.815	VB S	0.5552	3.41035e4	1023.72302	44.66841
19	5.866	BV T	0.0169	1153.86108	824.46350	1.51132
20	5.955	VV T	0.0222	1333.26245	728.16260	1.74629
21	6.008	VB T	0.0302	1980.64136	812.90137	2.59422
22	6.081	BV T	5.36e-3	19.04963	48.75915	0.02495
23	6.101	PB T	0.0164	296.39951	215.96860	0.38822
24	6.159	BV T	0.0137	93.88399	98.40369	0.12297
25	6.176	PV T	7.68e-3	51.49090	84.89086	0.06744
26	6.208	PV T	0.0195	474.53046	299.41766	0.62154
27	6.247	PV T	3.66e-3	15.03994	61.42451	0.01970
28	6.256	PV T	7.91e-3	53.64783	85.66166	0.07027
29	6.279	PV T	9.45e-3	49.21290	66.39777	0.06446
30	6.286	PV T	8.58e-3	27.44676	53.30969	0.03595
31	6.295	PB T	3.67e-3	10.10271	45.82666	0.01323
32	6.319	BV T	4.47e-3	7.44387	27.74405	0.00975
33	6.329	PV T	5.22e-3	11.45460	36.59698	0.01500
34	6.350	PV T	9.18e-3	78.75503	112.39001	0.10315
35	6.361	PV T	8.22e-3	90.50261	142.36595	0.11854
36	6.368	PV T	4.13e-3	27.54474	111.14538	0.03608
37	6.373	PV T	7.60e-3	46.83466	102.75753	0.06134
38	6.386	PV T	0.0133	52.25181	65.31038	0.06844
39	6.426	PV T	0.0144	281.19006	237.84956	0.36830
40	6.433	PV T	0.0143	218.65807	255.06995	0.28640
41	6.451	PV T	5.29e-3	93.44627	243.04762	0.12239
42	6.467	PV T	0.0272	685.59259	305.30145	0.89798
43	6.514	PV T	5.98e-3	48.60486	135.48322	0.06366
44	6.521	PV T	0.0114	70.70596	103.03442	0.09261
45	6.539	PV T	6.22e-3	48.13710	103.65946	0.06305
46	6.546	PV T	0.0166	117.08004	117.20044	0.15335
47	6.567	PV T	6.95e-3	53.78825	98.79957	0.07045
48	6.580	PV T	3.13e-3	7.56333	40.23946	0.00991
49	6.590	PV T	0.0253	4.21219	2.77559	0.00552
50	6.595	PV T	0.0313	56.56899	30.11555	0.07409
51	6.611	PV T	9.16e-3	65.01498	118.24175	0.08516
52	6.667	PV T	0.0000	52.58784	190.05453	0.06888
53	6.678	PB T	0.0112	90.19333	134.28049	0.11813
54	6.749	BB T	0.0153	139.86816	110.64015	0.18320
55	6.822	BV T	0.0230	500.89633	270.13232	0.65607
56	6.866	PV T	7.78e-3	32.31152	52.53884	0.04232
57	6.912	PV T	0.0153	389.73953	309.92322	0.51048
58	6.922	PV T	0.0162	303.01196	312.23462	0.39688
59	6.939	PV T	0.0119	213.89957	220.67189	0.28016
60	6.955	PV T	6.99e-3	91.19285	217.52312	0.11944
61	6.985	PV T	0.0289	755.78033	309.45035	0.98991
62	7.026	PV T	0.0205	117.66449	95.63334	0.15412
63	7.089	PV T	0.0286	673.09210	278.84024	0.88161
64	7.132	PV T	4.36e-3	7.71384	28.45701	0.01010
65	7.142	PV T	4.92e-3	13.23450	41.52613	0.01733
66	7.157	PV T	7.69e-3	28.35364	46.67532	0.03714
67	7.172	PV T	9.63e-3	60.93684	78.70773	0.07981
68	7.193	PB T	0.0181	96.63879	69.28716	0.12658
69	7.237	BV T	3.61e-3	3.69440	17.06633	0.00484
70	7.246	PV T	3.96e-3	6.87734	22.55988	0.00901
71	7.282	PV T	0.0169	341.38589	253.84891	0.44714
72	7.317	PB T	0.0134	143.48122	133.33182	0.18793
73	7.392	BV T	0.0171	128.37645	94.37190	0.16815
74	7.418	PV T	4.74e-3	14.07189	49.51156	0.01843
75	7.423	PB T	4.49e-3	14.91828	55.36853	0.01954
76	7.474	BV T	0.0109	64.51087	73.28713	0.08450
77	7.490	PV T	9.73e-3	53.77389	77.13468	0.07043
78	7.496	PV T	6.53e-3	27.63394	70.58154	0.03619
79	7.506	PB T	9.45e-3	50.11092	69.18683	0.06563
80	7.628	BV T	0.0380	1172.79651	365.85379	1.53612
81	7.676	PV T	0.0121	110.39200	120.39836	0.14459
82	7.692	PV T	0.0102	80.03298	101.10910	0.10483

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.709	PB T	0.0121	74.28083	80.84318	0.09729
84	7.791	BBA	0.0109	48.50644	57.03778	0.06353

Totals : 7.63481e4 2.45601e4

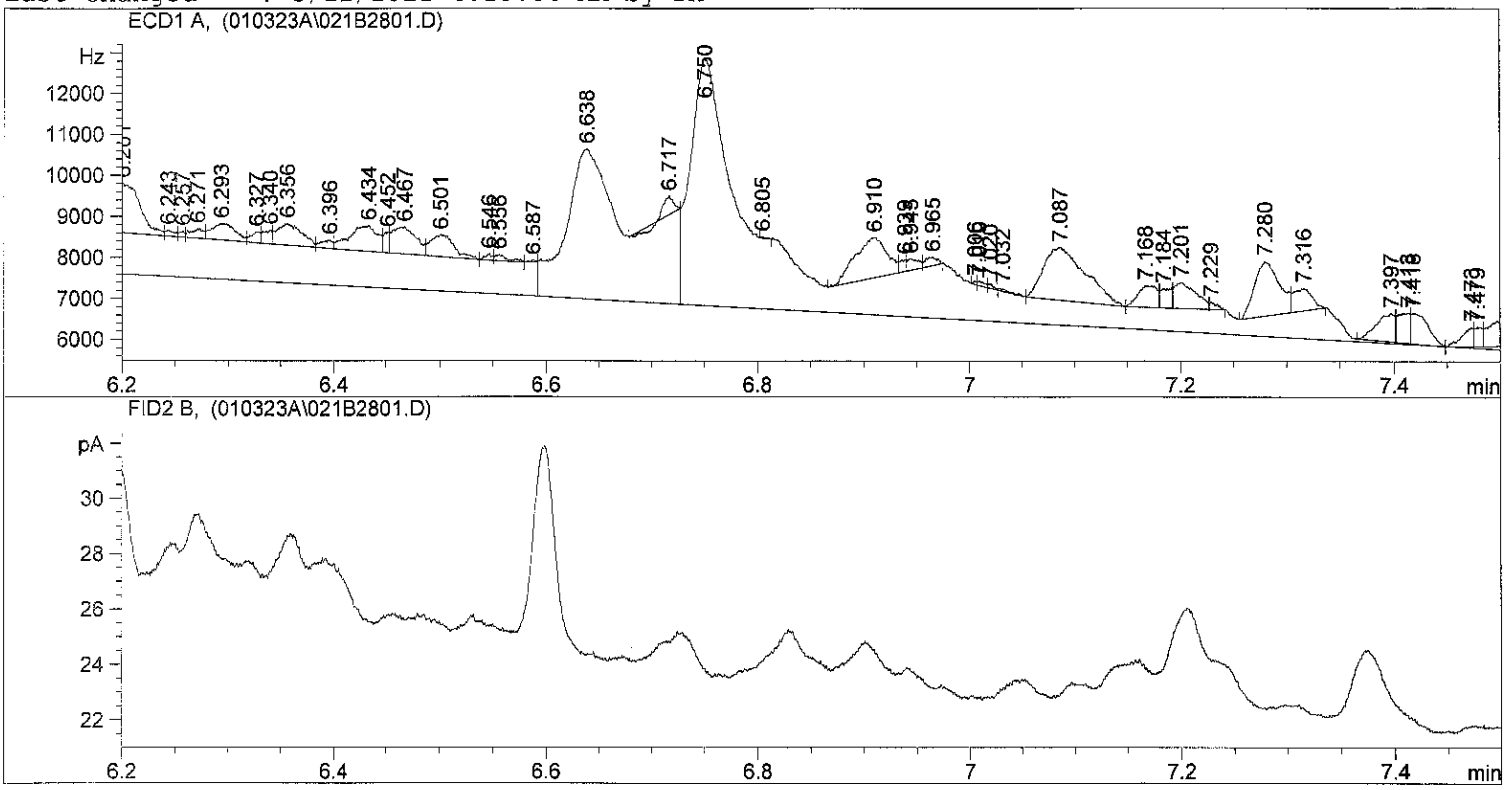
Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

Injection Date : 1/3/2023 8:11:13 PM Seq. Line : 28
Sample Name : 22L0417 03 Location : Vial 21
Acq. Operator : TW Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\010323A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 3/22/2022 4:13:36 AM by DM



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.221	PV S	0.0414	6753.12451	2061.12549	3.25420
2	5.251	PP T	9.51e-3	134.00667	234.82887	0.06458
3	5.275	PV T	6.15e-3	71.69077	150.79906	0.03455
4	5.281	PV T	6.15e-3	48.98956	132.67215	0.02361
5	5.290	PB T	0.0126	74.24814	98.01797	0.03578
6	5.339	PV T	0.0000	20.40043	32.79595	0.00983
7	5.348	PV T	6.93e-3	55.45298	133.36122	0.02672
8	5.375	PV T	0.0126	1126.69019	1091.17944	0.54293
9	5.436	PV T	0.0149	1575.10181	1283.44092	0.75901
10	5.475	PV S	0.0406	1.38276e4	4178.40527	6.66326
11	5.509	BV T	0.0118	334.14337	375.54187	0.16102
12	5.561	PV T	0.0177	1467.99438	1035.44141	0.70740
13	5.591	PV T	0.0155	746.57825	585.82391	0.35976
14	5.623	PV T	0.0159	1035.29614	800.39246	0.49889
15	5.674	PV S	0.0333	1.34403e4	5277.50049	6.47661
16	5.753	PV S	0.1528	5.84588e4	4546.84424	28.17016
17	5.815	BV T	0.0182	1296.67419	877.35754	0.62484

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.866	PV T	0.0193	1850.69495	1222.57800	0.89181
19	5.900	PV T	0.0212	2534.20264	1452.76538	1.22118
20	5.922	PV T	6.15e-3	460.37186	1003.41919	0.22184
21	5.945	PV T	0.0219	3470.07104	1919.73010	1.67216
22	5.980	PV T	0.0204	3034.87402	1929.20911	1.46245
23	6.002	PV T	0.0179	2728.91211	1815.07043	1.31501
24	6.036	PV T	0.0181	1401.58716	936.59393	0.67540
25	6.057	PV T	0.0105	423.12683	670.45563	0.20390
26	6.089	PV T	0.0227	1394.74194	750.02490	0.67210
27	6.125	PV T	0.0102	247.44792	305.80170	0.11924
28	6.140	PV T	6.36e-3	120.88259	263.22711	0.05825
29	6.163	PV T	0.0134	550.54663	501.44290	0.26530
30	6.168	PV T	6.61e-3	187.48468	472.84970	0.09035
31	6.201	PV T	0.0258	2547.73364	1198.73706	1.22770
32	6.243	PV T	9.33e-3	79.63573	142.30440	0.03837
33	6.257	PV T	5.84e-3	49.24739	140.61934	0.02373
34	6.271	PV T	9.54e-3	186.76111	238.48204	0.09000
35	6.293	PV T	0.0196	641.87976	398.37442	0.30931
36	6.327	PV T	7.76e-3	157.49867	263.89890	0.07590
37	6.340	PV T	7.11e-3	187.83434	336.55975	0.09051
38	6.356	PV T	0.0192	854.92432	531.90002	0.41197
39	6.396	PV T	9.96e-3	154.64316	201.32687	0.07452
40	6.434	PV T	0.0222	1153.82422	623.06763	0.55601
41	6.452	PV T	4.78e-3	177.04066	494.41858	0.08531
42	6.467	PV T	0.0191	977.30365	657.80377	0.47094
43	6.501	PV T	0.0200	826.73993	531.02893	0.39839
44	6.546	PV T	5.84e-3	65.05830	144.91386	0.03135
45	6.556	PV T	0.0134	119.43837	148.37144	0.05756
46	6.587	PV T	6.30e-3	14.33051	37.88783	0.00691
47	6.638	PV S	0.0558	1.68710e4	3643.95703	8.12980
48	6.717	BV T	6.32e-3	188.28966	446.76266	0.09073
49	6.750	PBAS	0.0859	4.38749e4	6031.61279	21.14248
50	6.805	BB T	5.58e-3	12.44675	37.20829	0.00600
51	6.910	BV T	0.0259	2051.43750	969.72736	0.98855
52	6.939	PV T	7.07e-3	120.38261	283.67273	0.05801
53	6.945	PV T	9.30e-3	198.75201	279.24942	0.09577
54	6.965	PB T	0.0109	163.22481	204.77161	0.07865
55	7.006	BV T	3.61e-3	18.90027	78.38609	0.00911
56	7.010	PV T	8.17e-3	54.04704	110.20564	0.02604
57	7.020	PV T	5.16e-3	33.85357	109.37477	0.01631
58	7.032	PV T	0.0103	43.61028	70.75389	0.02101
59	7.087	PV T	0.0337	3578.26660	1283.33228	1.72430
60	7.168	PV T	0.0149	649.80920	523.19751	0.31313
61	7.184	PV T	9.06e-3	325.49188	459.85535	0.15685
62	7.201	PV T	0.0178	887.98828	625.05603	0.42790
63	7.229	PB T	8.22e-3	84.49582	171.27835	0.04072
64	7.280	BV T	0.0195	2131.72339	1319.33191	1.02724
65	7.316	PB T	0.0152	655.44061	539.91956	0.31584
66	7.397	BV T	0.0143	807.00928	688.56366	0.38888
67	7.413	PV T	0.0101	590.80475	737.26221	0.28470
68	7.418	PV T	0.0188	837.72272	742.73248	0.40368
69	7.473	PV T	9.63e-3	359.80823	464.82941	0.17338
70	7.479	PV T	8.43e-3	234.29445	463.36145	0.11290
71	7.507	PB T	0.0232	1168.05347	636.37103	0.56286
72	7.567	BV T	4.05e-4	7.82212e-1	32.18385	0.00038
73	7.617	PV T	0.0157	1786.56482	1382.00671	0.86091
74	7.624	PV T	0.0187	2184.80957	1407.14392	1.05282
75	7.698	PV T	1.64e-3	9.65441	108.75798	0.00465
76	7.713	PB T	0.0111	203.16774	220.59456	0.09790
77	7.785	BBAT	0.0203	327.55783	209.16875	0.15784
Totals :				2.07520e5	6.65090e4	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

```
Injection Date  : 1/3/2023 8:22:26 PM          Seq. Line :  29
Sample Name     : 22L0417 04                   Location : Vial 22
Acq. Operator   : TW                              Inj :   1
                                               Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\2\SEQUENCE\010323A.S
Method          : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed    : 3/22/2022 4:13:36 AM by DM
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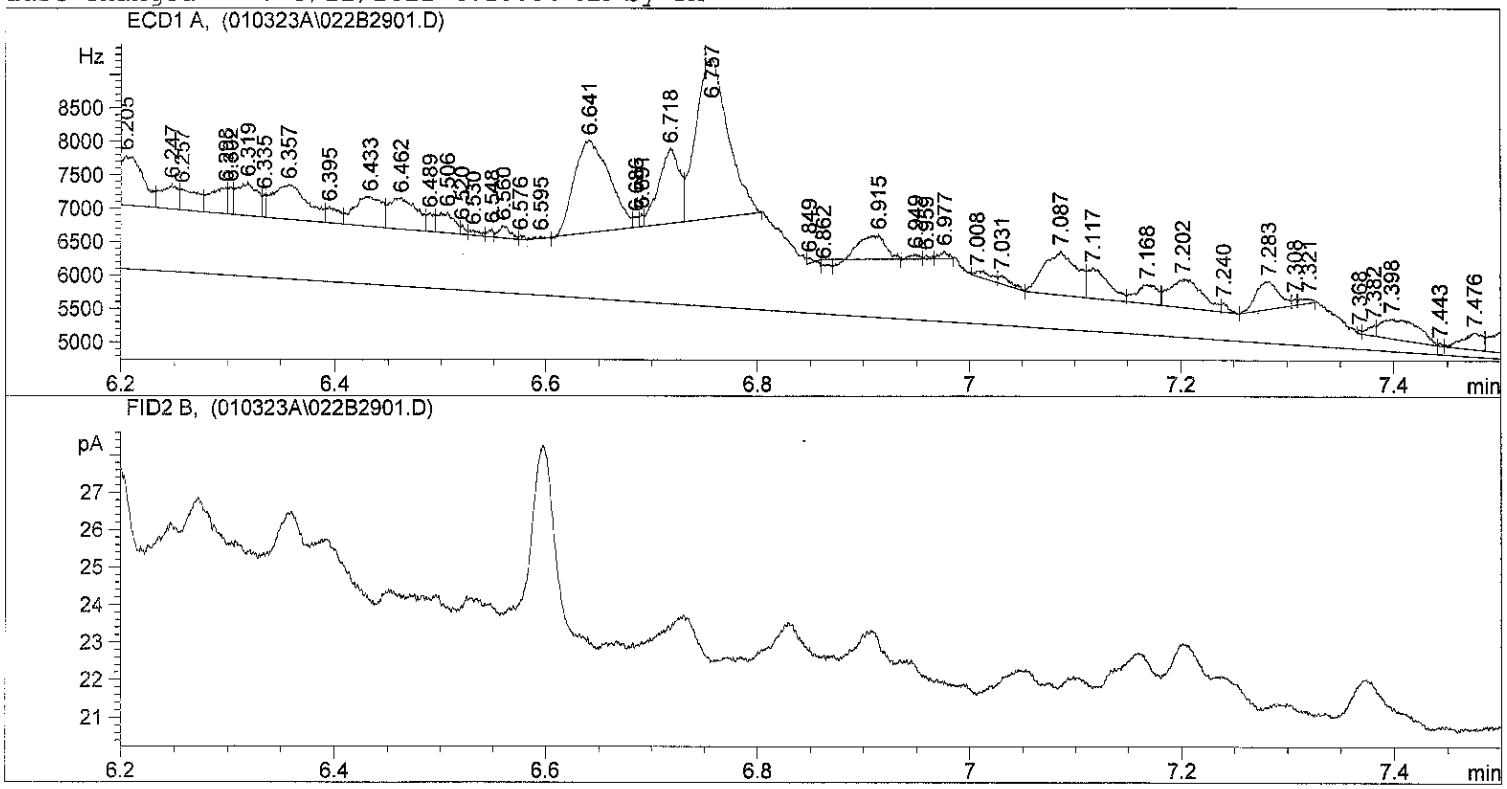

Area Percent Report

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Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.225	BV	0.0170	1548.37524	1102.92090	0.88736
2	5.277	VP	1.98e-3	7.58208	64.27256	0.00435
3	5.283	VV	4.17e-3	23.71606	93.12703	0.01359
4	5.293	VV	0.0118	157.07561	166.15063	0.09002
5	5.313	VP	6.42e-3	49.45689	110.59202	0.02834
6	5.332	VV	0.0118	114.58120	116.81197	0.06567
7	5.375	VV	0.0166	1399.16187	1045.16211	0.80184
8	5.402	VV	8.15e-3	342.77765	559.52692	0.19644
9	5.435	VV	0.0220	4728.92139	2597.25854	2.71009
10	5.474	VV S	0.0220	6334.78027	3856.88965	3.63039
11	5.504	VV S	0.0923	8295.05957	1497.96057	4.75380
12	5.563	BV T	0.0165	879.56635	635.85114	0.50407
13	5.599	VV T	0.0160	599.07550	471.49341	0.34332
14	5.622	VV T	0.0149	1607.88062	1308.00964	0.92146
15	5.644	VV T	5.54e-3	69.95145	210.49342	0.04009
16	5.677	VV S	0.0347	9944.77344	3549.82227	5.69923
17	5.753	VBAS	0.2449	9.49804e4	4584.43652	54.43212

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.814	BV T	0.0127	489.38354	496.87082	0.28046
19	5.823	VV T	0.0146	415.75562	473.78802	0.23826
20	5.867	VV T	0.0205	1778.51575	1065.49194	1.01925
21	5.909	VV T	0.0218	1719.05505	1002.07861	0.98517
22	5.920	VV T	7.18e-3	408.49826	948.22742	0.23411
23	5.945	VV T	0.0216	2275.93213	1275.24084	1.30431
24	5.981	VV T	0.0210	3302.46094	1986.79102	1.89260
25	6.004	VV T	0.0278	3996.28027	1728.47668	2.29022
26	6.062	VV T	8.45e-3	229.43349	452.40335	0.13149
27	6.070	VV T	5.39e-3	142.91156	441.84402	0.08190
28	6.089	VV T	0.0259	1405.35986	642.96417	0.80539
29	6.125	PV T	0.0144	295.47562	343.07266	0.16933
30	6.152	PV T	9.99e-3	257.13400	319.34515	0.14736
31	6.158	PV T	8.53e-3	158.32541	309.17233	0.09073
32	6.173	PV T	8.04e-3	210.03682	329.28476	0.12037
33	6.180	PV T	5.39e-3	143.61301	382.54715	0.08230
34	6.185	PV T	6.42e-3	159.31383	413.66422	0.09130
35	6.205	PV T	0.0220	1343.06946	738.26556	0.76970
36	6.247	PV T	0.0129	400.45053	374.99170	0.22949
37	6.257	PV T	0.0200	378.93250	316.22394	0.21716
38	6.298	PV T	0.0145	430.79709	394.82831	0.24688
39	6.302	PV T	4.29e-3	128.29747	405.79956	0.07353
40	6.319	PV T	0.0162	670.86108	503.06708	0.38446
41	6.335	PV T	3.78e-3	77.03784	339.93115	0.04415
42	6.357	PV T	0.0266	1158.20459	519.47662	0.66375
43	6.395	PV T	0.0103	201.18506	238.28288	0.11530
44	6.433	PV T	0.0220	806.67902	443.42987	0.46230
45	6.462	PV T	0.0225	834.28235	465.41455	0.47812
46	6.489	PV T	6.13e-3	130.51840	275.19080	0.07480
47	6.506	PV T	0.0135	333.83234	312.36679	0.19132
48	6.520	PV T	4.81e-3	38.80970	134.53793	0.02224
49	6.530	PV T	8.33e-3	50.52190	74.34158	0.02895
50	6.548	PV T	4.41e-3	40.53466	124.04752	0.02323
51	6.560	PV T	9.92e-3	140.50212	183.72331	0.08052
52	6.576	PV T	5.15e-3	18.36348	59.44301	0.01052
53	6.595	PV T	4.26e-3	10.51396	33.51906	0.00603
54	6.641	PV T	0.0282	3180.32544	1376.64966	1.82261
55	6.686	PV T	5.15e-3	57.71254	155.77007	0.03307
56	6.691	PV T	3.73e-3	50.45836	188.11658	0.02892
57	6.718	PV T	0.0178	1566.94067	1113.80310	0.89799
58	6.757	PB T	0.0266	5035.90234	2387.85620	2.88601
59	6.849	BV T	2.24e-3	11.20418	83.48956	0.00642
60	6.862	PV T	0.0121	57.07494	78.37519	0.03271
61	6.915	PV T	0.0193	579.06512	361.96201	0.33186
62	6.949	PV T	7.40e-3	43.17791	72.00554	0.02474
63	6.959	PV T	4.89e-3	19.14957	52.01870	0.01097
64	6.977	PB T	7.41e-3	65.20715	115.13509	0.03737
65	7.008	BV T	0.0160	107.90173	80.49476	0.06184
66	7.031	PV T	9.83e-3	103.18687	130.45845	0.05914
67	7.087	PV T	0.0260	1423.43115	653.78510	0.81575
68	7.117	PV T	0.0167	625.73035	453.56082	0.35860
69	7.168	PV T	0.0178	401.53131	285.87277	0.23011
70	7.202	PV T	0.0258	920.86560	422.33188	0.52774
71	7.240	PV T	7.13e-3	56.50738	132.08937	0.03238
72	7.283	PV T	0.0196	623.47461	413.48264	0.35731
73	7.308	PV T	4.57e-3	26.90845	98.03645	0.01542
74	7.321	PB T	0.0104	60.74776	71.01166	0.03481
75	7.368	BV T	3.47e-3	10.19493	48.93980	0.00584
76	7.382	PV T	6.65e-3	80.35062	154.96857	0.04605
77	7.398	PV T	0.0308	749.18311	291.59933	0.42935
78	7.443	PV T	4.39e-3	9.80057	37.24487	0.00562
79	7.476	PV T	0.0166	323.32550	251.22623	0.18529
80	7.506	PV T	0.0242	694.23737	343.11133	0.39786
81	7.548	PV T	0.0106	95.22487	113.91460	0.05457
82	7.566	PV T	3.47e-3	6.10221	29.26872	0.00350

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.618	PV T	0.0325	1633.25366	609.43073	0.93600
84	7.673	PV T	4.84e-3	14.67395	40.41111	0.00841
85	7.681	PV T	0.0000	9.31956	20.44126	0.00534
86	7.705	PV T	4.90e-3	23.06359	62.56010	0.01322
87	7.713	PB T	5.16e-3	15.85750	51.21054	0.00909
88	7.740	BV T	1.49e-3	3.45706	38.77583	0.00198
89	7.781	PV T	0.0196	117.98362	79.21777	0.06761
90	7.793	PBAT	5.29e-3	26.74786	84.22842	0.01533
Totals :				1.74493e5	5.15018e4	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

```
Injection Date  : 1/3/2023 8:33:38 PM          Seq. Line :  30
Sample Name     : 22L0417 06                   Location : Vial 23
Acq. Operator   : TW                              Inj :   1
                                               Inj Volume : 1 µl

Sequence File   : C:\HPCHEM\2\SEQUENCE\010323A.S
Method          : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed    : 3/22/2022 4:13:36 AM by DM
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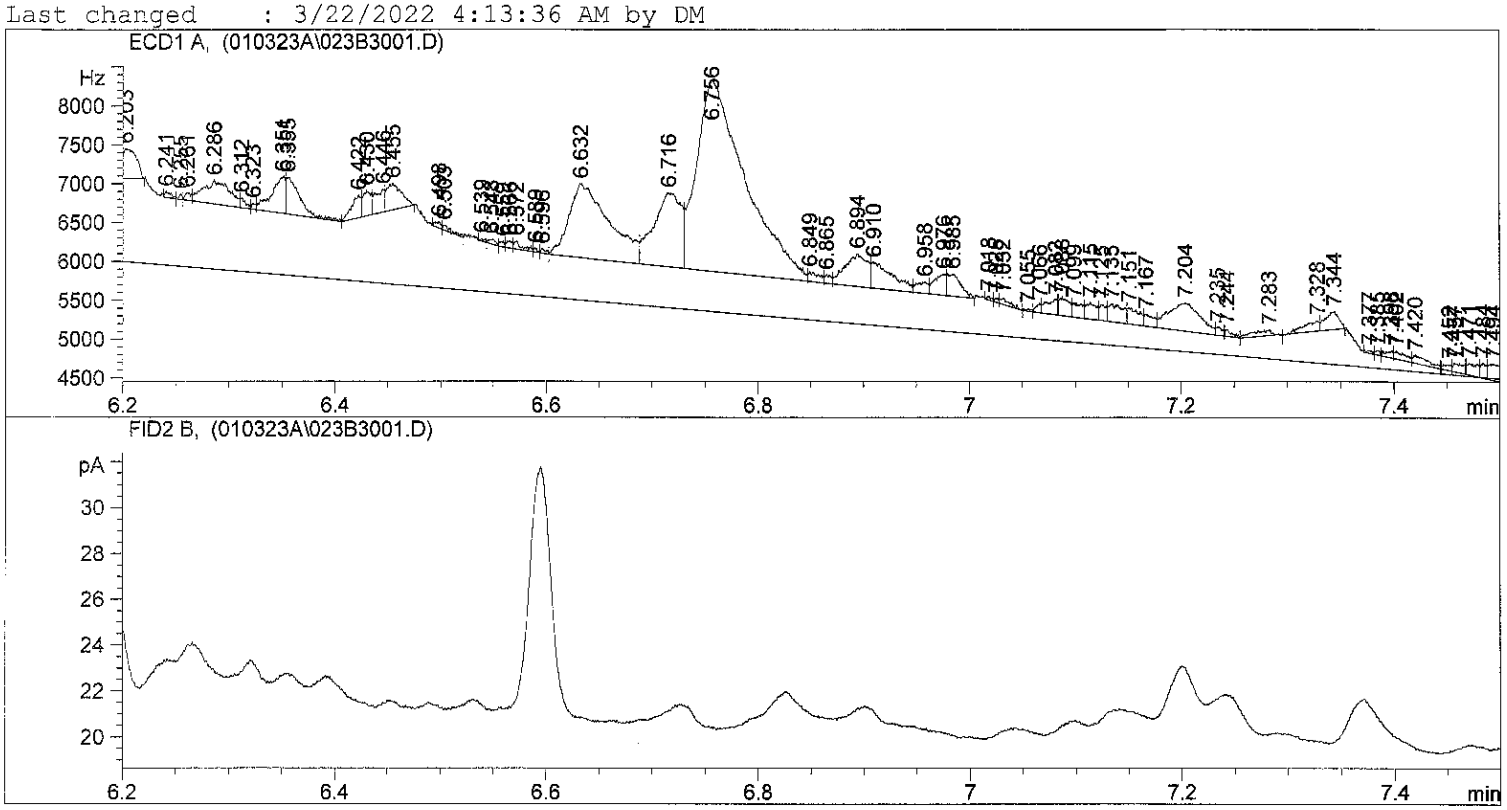

Area Percent Report

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Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.228	BV S	0.0895	1.31411e4	1720.66492	10.08109
2	5.271	BV T	2.45e-3	4.80368	32.64102	0.00369
3	5.295	PV T	6.60e-3	62.32705	121.22787	0.04781
4	5.301	PP T	0.0000	141.59605	38.97932	0.10862
5	5.336	PV T	0.0369	346.38718	110.72253	0.26573
6	5.376	PV T	0.0000	255.27429	72.82481	0.19583
7	5.401	PV T	0.0218	56.92756	31.28438	0.04367
8	5.405	VV T	0.0104	24.96948	40.20253	0.01916
9	5.411	VV T	7.85e-3	33.63974	71.45627	0.02581
10	5.440	VV T	0.0118	782.01910	814.33435	0.59992
11	5.474	VV T	0.0148	824.00238	741.30444	0.63213
12	5.502	VV T	2.68e-3	11.12404	69.13847	0.00853
13	5.507	VB T	4.94e-3	21.49407	72.44798	0.01649
14	5.563	BV T	0.0169	922.89178	669.08289	0.70799
15	5.579	VV T	5.00e-3	203.85088	566.91882	0.15638
16	5.584	VV T	0.0143	419.72113	487.76248	0.32199
17	5.620	VV T	0.0192	1009.94482	646.26569	0.77477

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.678	VV S	0.0329	8689.47949	3157.52539	6.66607
19	5.751	VV S	0.0449	6363.57227	2360.20410	4.88176
20	5.947	VV S	0.1684	2.41969e4	2394.60864	18.56249
21	6.037	VBAS	0.5660	5.08924e4	1498.69507	39.04173
22	6.077	BV T	0.0108	62.53651	96.32092	0.04797
23	6.090	PV T	0.0173	122.07275	117.46035	0.09365
24	6.110	PV T	9.65e-3	85.99415	110.85292	0.06597
25	6.138	PV T	3.42e-3	9.32969	44.98441	0.00716
26	6.162	PV T	8.06e-3	62.76618	98.18437	0.04815
27	6.173	PV T	3.78e-3	12.10318	47.40190	0.00928
28	6.203	PB T	0.0181	578.20258	380.35498	0.44356
29	6.241	BV T	6.98e-3	29.73041	70.99986	0.02281
30	6.255	PV T	3.31e-3	13.08091	65.88982	0.01003
31	6.261	PV T	6.32e-3	37.17516	98.06541	0.02852
32	6.286	PV T	0.0210	519.56714	300.65625	0.39858
33	6.312	PV T	5.82e-3	43.45257	124.35979	0.03333
34	6.323	PV T	4.33e-3	20.13535	77.45498	0.01545
35	6.351	PV T	0.0105	397.58716	469.69113	0.30501
36	6.355	PV T	0.0155	437.32352	469.96555	0.33549
37	6.422	PV T	7.67e-3	173.22112	285.91440	0.13289
38	6.430	PV T	7.05e-3	183.98737	322.70477	0.14114
39	6.446	PV T	7.99e-3	178.94965	290.52271	0.13728
40	6.455	PB T	0.0119	328.00256	338.24722	0.25162
41	6.498	BV T	4.77e-3	28.18844	78.77415	0.02162
42	6.503	PB T	8.76e-3	32.97894	62.71900	0.02530
43	6.539	BV T	3.53e-3	9.62319	35.87823	0.00738
44	6.548	PV T	6.09e-3	30.05973	61.64834	0.02306
45	6.559	PV T	4.05e-3	19.83305	67.12468	0.01521
46	6.566	PV T	5.95e-3	33.38968	93.52801	0.02561
47	6.572	PV T	8.78e-3	55.04694	104.53910	0.04223
48	6.589	PV T	3.62e-3	11.22062	51.70392	0.00861
49	6.596	PV T	4.63e-3	17.85054	54.34436	0.01369
50	6.632	PV T	0.0328	2557.86084	951.04419	1.96224
51	6.716	PV T	0.0220	1689.46814	948.89996	1.29606
52	6.756	PV T	0.0382	7816.61035	2454.32397	5.99645
53	6.849	PV T	0.0120	87.28455	120.79394	0.06696
54	6.865	PV T	7.31e-3	45.70311	104.15497	0.03506
55	6.894	PV T	0.0177	613.45288	418.83191	0.47061
56	6.910	PV T	0.0237	464.56860	326.27594	0.35639
57	6.958	PV T	9.68e-3	112.63798	144.65549	0.08641
58	6.976	PV T	9.20e-3	203.53151	269.96774	0.15614
59	6.985	PB T	0.0112	253.26912	282.95837	0.19429
60	7.018	BV T	4.96e-3	12.96165	43.59502	0.00994
61	7.025	PV T	3.78e-3	11.70711	51.58962	0.00898
62	7.032	PV T	7.99e-3	50.55112	79.79273	0.03878
63	7.055	PV T	5.04e-3	12.90145	33.89185	0.00990
64	7.066	PV T	4.56e-3	38.65051	119.94169	0.02965
65	7.082	PV T	9.65e-3	143.58492	193.73230	0.11015
66	7.088	PV T	0.0112	152.71165	226.41595	0.11715
67	7.099	PV T	0.0112	117.90981	175.12355	0.09045
68	7.115	PV T	8.58e-3	147.47139	210.28658	0.11313
69	7.125	PV T	6.93e-3	84.57169	203.36855	0.06488
70	7.135	PV T	0.0128	226.43741	224.74039	0.17371
71	7.151	PV T	0.0134	165.34003	205.85559	0.12684
72	7.167	PV T	0.0101	93.66662	154.34865	0.07186
73	7.204	PV T	0.0249	756.06635	363.21664	0.58001
74	7.235	PV T	6.90e-3	44.86735	108.38950	0.03442
75	7.244	PV T	7.46e-3	39.38047	87.97075	0.03021
76	7.283	PV T	0.0168	89.64114	67.03756	0.06877
77	7.328	PV T	0.0122	131.26025	131.93701	0.10070
78	7.344	PB T	0.0111	204.58775	228.03561	0.15695
79	7.377	BV T	6.52e-3	13.97774	35.74455	0.01072
80	7.385	PV T	5.15e-3	16.71017	54.04538	0.01282
81	7.398	PV T	7.23e-3	43.06306	99.28817	0.03304
82	7.402	PV T	9.29e-3	76.66996	102.89889	0.05882

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.420	PV T	0.0184	105.55700	95.40329	0.08098
84	7.452	PV T	7.06e-3	39.53550	78.71400	0.03033
85	7.457	PV T	0.0122	77.71458	106.38056	0.05962
86	7.471	PV T	8.84e-3	110.09934	152.22357	0.08446
87	7.484	PV T	6.26e-3	71.39066	190.06654	0.05477
88	7.494	PV T	0.0595	739.59113	207.25461	0.56737
89	7.568	PV T	1.71e-3	2.45251	23.93143	0.00188
90	7.606	PV T	0.0121	142.71013	155.25883	0.10948
91	7.614	PB T	0.0134	154.22711	147.25320	0.11831
92	7.650	BV T	0.0176	60.94044	57.64110	0.04675
93	7.670	PV T	0.0214	86.48642	67.36021	0.06635
94	7.696	PV T	0.0206	64.27480	52.11243	0.04931
95	7.726	PV T	7.57e-3	14.95193	26.54407	0.01147
96	7.739	PV T	2.99e-3	9.78869	44.08033	0.00751
97	7.746	PV T	4.01e-3	20.23890	69.26972	0.01553
98	7.760	PBAT	0.0232	196.99446	104.64285	0.15112
Totals :				1.30354e5	3.09399e4	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

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Injection Date  : 1/3/2023 8:44:50 PM          Seq. Line :  31
Sample Name     : 22L0417 07                   Location : Vial 24
Acq. Operator   : TW                              Inj :   1
                                               Inj Volume : 1 µl

Sequence File   : C:\HPCHEM\2\SEQUENCE\010323A.S
Method          : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed    : 3/22/2022 4:13:36 AM by DM
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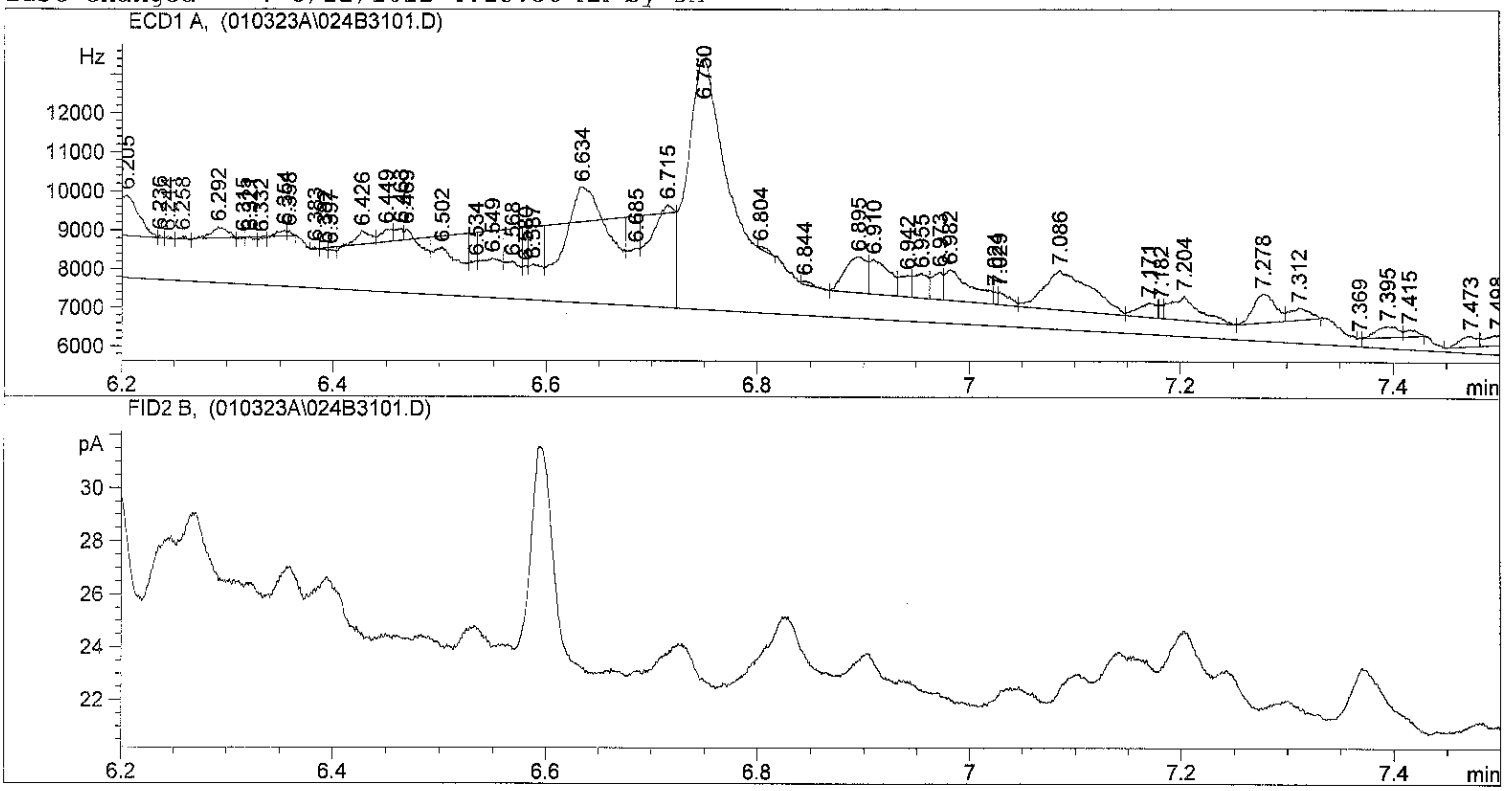

Area Percent Report

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Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.218	PV S	0.0170	3665.68091	2847.42920	1.67361
2	5.250	PV T	9.44e-3	119.87270	154.67496	0.05473
3	5.272	PV T	3.99e-3	44.02295	151.50774	0.02010
4	5.277	PB T	0.0111	121.14290	182.60921	0.05531
5	5.335	PV T	8.10e-3	110.34454	197.95369	0.05038
6	5.376	PV S	0.0377	8533.12500	2727.34839	3.89589
7	5.435	BV T	0.0171	1806.72656	1514.99951	0.82488
8	5.474	PV S	0.0439	1.57952e4	4435.59863	7.21149
9	5.560	BV T	0.0188	2427.70801	1588.40100	1.10840
10	5.590	PV T	0.0149	998.82050	814.92975	0.45602
11	5.619	PV T	0.0174	1454.33704	1009.79871	0.66399
12	5.671	PV S	0.0306	1.49273e4	6039.94629	6.81522
13	5.752	PV S	0.2369	7.97948e4	3949.65430	36.43119
14	5.816	BV T	0.0194	1699.76270	1079.58813	0.77605
15	5.865	PV T	0.0174	2565.81055	1783.77429	1.17145
16	5.901	PV T	0.0238	3654.62549	1889.30347	1.66856
17	5.944	PV T	0.0228	4244.73486	2336.25098	1.93798

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.975	PV T	0.0172	2491.08203	1842.74268	1.13733
19	5.991	PV T	7.87e-3	736.67303	1560.31067	0.33634
20	6.003	PV T	0.0193	2378.97681	1681.75244	1.08615
21	6.035	PV T	7.57e-3	487.88632	816.99579	0.22275
22	6.039	PV T	0.0215	1017.37488	786.88440	0.46449
23	6.088	PV T	0.0197	1012.20361	618.00977	0.46213
24	6.114	PV T	9.56e-3	164.52478	286.81387	0.07512
25	6.125	PV T	9.01e-3	114.81482	212.30608	0.05242
26	6.136	PV T	3.33e-3	38.45173	192.27652	0.01756
27	6.156	PV T	0.0190	814.93811	517.57587	0.37207
28	6.182	PV T	5.87e-3	238.43434	527.65204	0.10886
29	6.205	PV T	0.0208	1758.43640	1035.57410	0.80283
30	6.236	PV T	2.47e-3	12.73187	71.84686	0.00581
31	6.244	PV T	3.45e-3	12.02890	52.90625	0.00549
32	6.258	PV T	2.62e-3	14.07755	81.38011	0.00643
33	6.292	PV T	0.0120	272.05606	278.45663	0.12421
34	6.315	PV T	0.0000	11.98041	10.16182	0.00547
35	6.321	PV T	0.0000	20.39233	18.69844	0.00931
36	6.332	PV T	0.0169	24.54674	17.57943	0.01121
37	6.354	PV T	6.62e-3	75.47066	146.35532	0.03446
38	6.358	PB T	4.62e-3	31.51005	113.74815	0.01439
39	6.383	BV T	1.53e-3	5.44245	56.02317	0.00248
40	6.392	PV T	0.0119	18.15488	18.80480	0.00829
41	6.397	PV T	0.0122	38.04337	52.16521	0.01737
42	6.426	PV T	0.0109	284.16666	328.75049	0.12974
43	6.449	PV T	9.54e-3	250.75299	327.31570	0.11448
44	6.463	PV T	7.52e-3	163.46344	301.85147	0.07463
45	6.469	PV T	0.0000	105.61313	261.01901	0.04822
46	6.502	PV T	0.0460	1141.35278	296.15063	0.52110
47	6.534	PV T	6.74e-3	387.69855	736.83051	0.17701
48	6.549	PV T	0.0191	1085.20276	685.20050	0.49546
49	6.568	PV T	0.0139	916.21411	829.82703	0.41831
50	6.580	PV T	4.66e-3	324.48108	979.95490	0.14815
51	6.587	PV T	0.0121	939.12219	956.43146	0.42877
52	6.634	PV T	0.0000	850.36658	889.14935	0.38824
53	6.685	PV T	0.0104	698.45288	815.78046	0.31889
54	6.715	PV T	0.0000	558.05884	212.65776	0.25479
55	6.750	PBAS	0.0765	4.05422e4	6433.04053	18.51001
56	6.804	BB T	9.75e-3	55.88325	72.87620	0.02551
57	6.844	BV T	0.0102	59.21864	96.59047	0.02704
58	6.895	PV T	0.0181	1321.14563	931.85724	0.60318
59	6.910	PV T	0.0158	1174.52661	898.58600	0.53624
60	6.942	PV T	9.96e-3	455.67557	567.90686	0.20804
61	6.955	PV T	0.0110	571.46869	638.48572	0.26091
62	6.973	PV T	9.41e-3	506.66089	702.97510	0.23132
63	6.982	PV T	0.0220	1402.87024	792.98596	0.64050
64	7.024	PV T	4.13e-3	80.97652	326.41238	0.03697
65	7.029	PV T	0.0123	241.83562	328.87341	0.11041
66	7.086	PV T	0.0373	3163.87427	1011.26990	1.44450
67	7.171	PV T	0.0147	448.74411	370.53513	0.20488
68	7.182	PV T	4.82e-3	101.90513	352.57520	0.04653
69	7.204	PV T	0.0231	1166.88037	621.90173	0.53275
70	7.278	PV T	0.0169	1060.90186	748.05432	0.48437
71	7.312	PB T	0.0164	418.97574	309.17111	0.19129
72	7.369	BV T	2.62e-3	3.41909	21.78886	0.00156
73	7.395	PV T	0.0174	401.25153	278.57220	0.18320
74	7.415	PB T	0.0108	144.89925	176.82019	0.06616
75	7.473	BV T	0.0150	311.60693	274.87216	0.14227
76	7.498	PB T	0.0186	381.74948	258.84985	0.17429
77	7.532	BB T	2.11e-3	4.28852	33.79504	0.00196
78	7.557	BV T	7.21e-3	42.27061	97.67153	0.01930
79	7.620	PV T	0.0367	2928.68164	967.11090	1.33712
80	7.684	PV T	0.0128	137.85295	132.18250	0.06294
81	7.697	PV T	3.25e-3	22.00726	112.94218	0.01005
82	7.711	PB T	0.0127	187.26506	186.24358	0.08550

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.771	BV T	0.0108	105.75365	121.00205	0.04828
84	7.777	PBAT	0.0110	124.72569	145.86766	0.05694
Totals :				2.19029e5	6.93335e4	

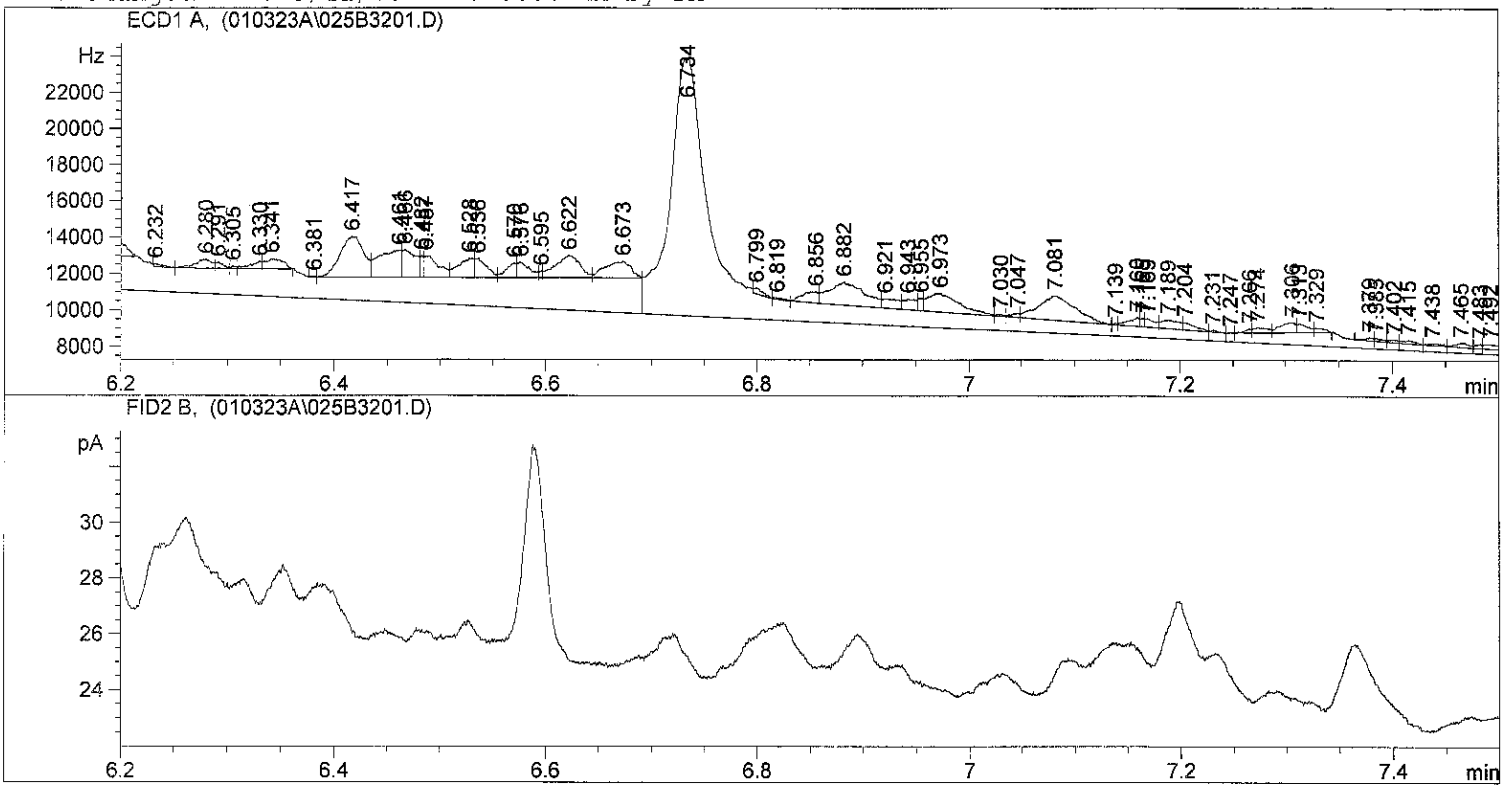
Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

Injection Date : 1/3/2023 8:56:04 PM Seq. Line : 32
Sample Name : 22L0459 02 Location : Vial 25
Acq. Operator : TW Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\010323A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 3/22/2022 4:13:36 AM by DM



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.214	BP S	0.0162	6270.51904	5460.88525	2.14419
2	5.274	PV S	0.0168	2053.79663	1498.36450	0.70229
3	5.305	BP T	0.0104	332.85837	531.59631	0.11382
4	5.336	PV T	8.68e-3	147.11154	207.32932	0.05030
5	5.437	PV S	0.0343	6658.26172	2330.78442	2.27677
6	5.475	PV S	0.0221	6504.88672	3820.03223	2.22433
7	5.507	BV T	8.76e-3	254.54465	403.54419	0.08704
8	5.521	PV T	2.95e-3	8.70817	47.42864	0.00298
9	5.553	PV S	0.0420	1.38988e4	4038.25903	4.75266
10	5.577	BV T	5.82e-3	177.92534	469.69177	0.06084
11	5.584	PV T	8.77e-3	325.59644	464.90701	0.11134
12	5.611	PV T	0.0165	2186.91895	1607.20935	0.74781
13	5.665	PV S	0.0273	2.47469e4	1.22669e4	8.46212
14	5.750	VV S	0.0450	1.76922e4	4755.83887	6.04979
15	5.806	BV T	0.0140	1575.45215	1373.50903	0.53872
16	5.887	VV S	0.0425	1.75700e4	4967.26904	6.00803
17	5.937	PV S	0.2240	8.78389e4	4595.61914	30.03625

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.962	BV T	2.65e-3	32.26757	183.94156	0.01103
19	5.966	VV T	0.0129	208.26753	269.62140	0.07122
20	5.993	PV T	0.0123	532.52911	551.42480	0.18210
21	6.021	PB T	9.06e-3	182.84666	246.36601	0.06252
22	6.055	BV T	2.73e-3	19.27102	117.61783	0.00659
23	6.061	PV T	1.83e-3	10.71513	97.39419	0.00366
24	6.078	PV T	0.0132	403.12231	385.62363	0.13785
25	6.104	PV T	0.0110	235.97742	286.31421	0.08069
26	6.124	PV T	7.09e-3	121.27293	217.94429	0.04147
27	6.139	PV T	5.68e-3	89.25060	213.51653	0.03052
28	6.152	PV T	0.0105	267.12939	341.48071	0.09134
29	6.161	PV T	6.86e-3	151.78336	282.91608	0.05190
30	6.194	PB T	0.0186	1404.06763	921.07623	0.48012
31	6.232	BV T	0.0103	96.25759	155.30099	0.03291
32	6.280	PV T	0.0134	546.87457	497.15070	0.18700
33	6.291	PV T	7.56e-3	153.88774	339.21997	0.05262
34	6.305	PV T	3.88e-3	40.35263	143.64075	0.01380
35	6.330	PV T	9.86e-3	289.39609	390.08557	0.09896
36	6.341	PB T	0.0136	625.19360	559.77301	0.21378
37	6.381	BV T	4.51e-3	14.18871	52.46165	0.00485
38	6.417	PV T	0.0184	3457.76855	2244.54321	1.18237
39	6.461	PV T	0.0178	2214.16284	1485.84705	0.75713
40	6.466	PV T	0.0146	1328.01624	1517.61829	0.45411
41	6.482	PV T	4.00e-3	288.49997	1203.07520	0.09865
42	6.487	PV T	0.0158	1117.85889	1181.52869	0.38225
43	6.528	PV T	0.0127	1102.65149	1065.56421	0.37705
44	6.536	PV T	0.0128	795.10199	1034.20886	0.27188
45	6.570	PV T	8.30e-3	520.49738	809.92407	0.17798
46	6.576	PV T	0.0104	688.74536	840.60687	0.23551
47	6.595	PV T	3.40e-3	72.96946	357.77625	0.02495
48	6.622	PV T	0.0194	1973.40637	1212.87671	0.67480
49	6.673	PV T	0.0204	1525.56360	916.47736	0.52166
50	6.734	PPAS	0.0594	6.80628e4	1.42374e4	23.27387
51	6.799	BV T	9.76e-3	182.40306	311.41406	0.06237
52	6.819	PV T	0.0106	47.96331	75.18209	0.01640
53	6.856	PV T	0.0126	625.85852	606.84778	0.21401
54	6.882	PV T	0.0280	2931.86475	1248.78687	1.00254
55	6.921	PV T	0.0129	535.73419	506.93802	0.18319
56	6.943	PV T	0.0101	492.42868	606.40033	0.16838
57	6.955	PV T	4.50e-3	204.22540	681.56024	0.06983
58	6.973	PV T	0.0247	2110.31396	1023.64758	0.72162
59	7.030	PV T	6.73e-3	42.95892	106.42675	0.01469
60	7.047	PV T	6.55e-3	117.41973	230.12309	0.04015
61	7.081	PV T	0.0292	3245.87695	1342.52856	1.10992
62	7.139	PV T	3.27e-3	19.91767	101.47105	0.00681
63	7.160	PV T	8.64e-3	330.63156	479.58466	0.11306
64	7.165	PV T	4.60e-3	122.69796	444.09061	0.04196
65	7.169	PV T	0.0102	282.87183	462.02753	0.09673
66	7.189	PV T	0.0148	553.01111	473.99854	0.18910
67	7.204	PV T	0.0131	316.87112	402.78564	0.10835
68	7.231	PV T	5.64e-3	39.53424	91.49164	0.01352
69	7.247	PV T	1.25e-3	1.99866	27.27495	0.00068
70	7.266	PV T	6.08e-3	92.29335	211.78410	0.03156
71	7.274	PV T	0.0119	268.63861	281.54016	0.09186
72	7.306	PV T	0.0132	567.12744	543.78595	0.19393
73	7.313	PV T	8.83e-3	328.42072	476.91360	0.11230
74	7.329	PB T	0.0111	160.95813	241.51369	0.05504
75	7.379	BV T	6.41e-3	86.25674	167.42313	0.02950
76	7.385	PV T	7.89e-3	83.32333	175.98143	0.02849
77	7.402	PV T	6.79e-3	80.48763	146.85973	0.02752
78	7.415	PV T	0.0103	134.75858	165.42018	0.04608
79	7.438	PV T	0.0105	83.54886	96.49829	0.02857
80	7.465	PV T	0.0109	205.38318	241.66612	0.07023
81	7.483	PV T	5.34e-3	95.86949	236.13947	0.03278
82	7.492	PV T	0.0138	298.05606	260.45703	0.10192

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.520	PV T	0.0202	194.74997	117.00314	0.06659
84	7.561	PV T	6.03e-3	52.19197	116.48336	0.01785
85	7.572	PV T	2.86e-3	13.93854	66.08527	0.00477
86	7.598	PV T	6.75e-3	73.61751	139.65088	0.02517
87	7.607	PB T	8.78e-3	126.72290	180.81183	0.04333
88	7.648	BV T	1.84e-3	4.98510	45.25046	0.00170
89	7.657	PV T	0.0121	89.24351	95.60612	0.03052
90	7.678	PV T	3.45e-3	10.71149	51.72659	0.00366
91	7.698	PB T	0.0133	211.48421	190.54797	0.07232
92	7.752	BV T	9.50e-3	64.90034	85.12249	0.02219
93	7.767	PV T	4.49e-3	19.62507	72.80868	0.00671
94	7.785	PV T	8.15e-3	75.01882	129.60448	0.02565
Totals :				2.92443e5	9.69588e4	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

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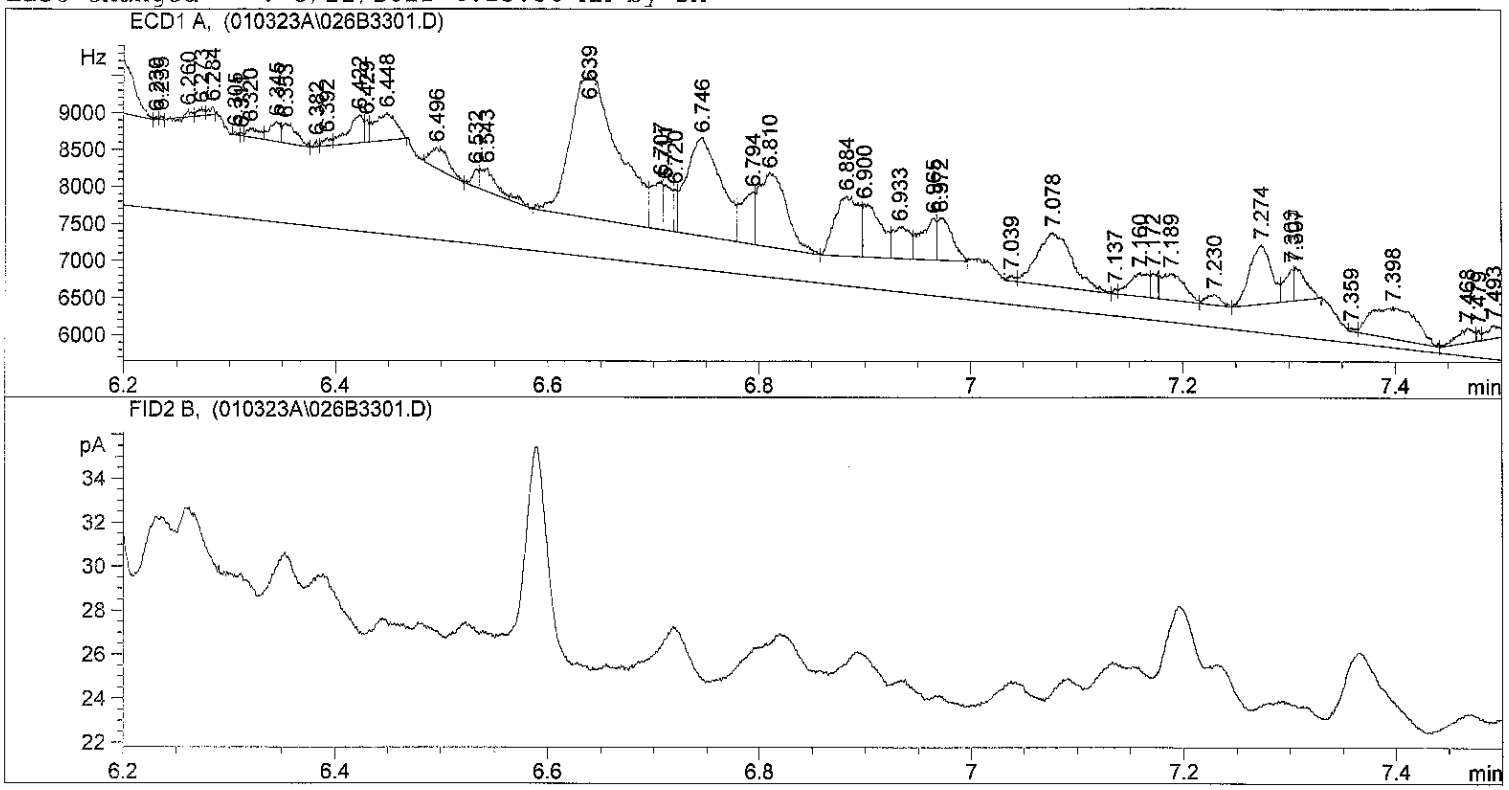
*** End of Report ***

Injection Date : 1/3/2023 9:07:16 PM Seq. Line : 33
Sample Name : 22L0459 06 Location : Vial 26
Acq. Operator : TW Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\010323A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 3/22/2022 4:13:36 AM by DM



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.226	BP	3.49e-3	11.24536	48.84393	0.00561
2	5.249	VV	0.0108	524.45581	601.28430	0.26167
3	5.277	VV	9.83e-3	499.11206	617.32037	0.24903
4	5.298	VV	0.0117	881.49030	976.18884	0.43981
5	5.303	VV	0.0116	982.48370	1065.96094	0.49020
6	5.333	VV	0.0113	295.58066	343.04492	0.14748
7	5.372	VV S	0.0223	6086.79492	3605.08521	3.03697
8	5.435	VV S	0.0321	6406.71875	3325.36621	3.19660
9	5.472	VV S	0.0234	1.30178e4	9252.27539	6.49516
10	5.507	VV S	0.0751	8909.18555	1977.05322	4.44519
11	5.547	BV T	5.37e-3	80.47182	188.98317	0.04015
12	5.560	VV T	6.09e-3	73.14184	167.77863	0.03649
13	5.588	VV T	0.0149	1141.59619	999.57959	0.56959
14	5.621	VV T	0.0165	557.11353	425.29056	0.27797
15	5.643	VV T	4.24e-3	41.08148	161.47922	0.02050
16	5.688	VV S	0.0271	8528.60156	3970.65039	4.25530
17	5.749	VV S	0.0267	1.79350e4	1.11896e4	8.94855

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.859	VV S	0.0647	1.59771e4	3295.85669	7.97168
19	5.937	VV S	0.0384	9151.79590	3967.93628	4.56624
20	5.995	VV S	0.0493	1.14098e4	3856.68140	5.69286
21	6.030	VBAS	0.5052	6.49088e4	2141.17822	32.38591
22	6.081	BV T	0.0107	409.19382	464.60925	0.20417
23	6.092	VV T	0.0177	689.76794	482.98761	0.34416
24	6.136	PV T	6.59e-3	101.25823	190.73509	0.05052
25	6.148	PV T	0.0107	223.16255	262.82114	0.11135
26	6.159	PV T	8.13e-3	137.29079	281.41028	0.06850
27	6.190	PV T	0.0248	1589.17102	766.49963	0.79291
28	6.230	PV T	2.37e-3	5.10314	35.92162	0.00255
29	6.235	PV T	2.63e-3	6.75476	42.83465	0.00337
30	6.260	PV T	2.88e-3	10.51782	82.64822	0.00525
31	6.273	PV T	6.94e-3	41.02384	98.58339	0.02047
32	6.284	PB T	4.74e-3	37.45205	110.88524	0.01869
33	6.305	BV T	2.92e-3	8.18026	41.19619	0.00408
34	6.311	PV T	3.46e-3	7.26091	34.95316	0.00362
35	6.320	PV T	9.90e-3	107.67729	132.17738	0.05373
36	6.345	PV T	8.93e-3	192.91541	270.27640	0.09625
37	6.353	PV T	0.0109	243.63077	270.41647	0.12156
38	6.382	PV T	3.17e-3	15.26832	82.17674	0.00762
39	6.392	PV T	6.51e-3	52.08480	106.48063	0.02599
40	6.422	PV T	0.0131	373.68723	372.17435	0.18645
41	6.429	PV T	3.55e-3	75.46436	298.38773	0.03765
42	6.448	PB T	0.0177	521.99463	365.18628	0.26045
43	6.496	BV T	0.0150	344.96545	279.17960	0.17212
44	6.532	PV T	5.55e-3	100.15743	245.99596	0.04997
45	6.543	PV T	0.0144	365.04724	312.87570	0.18214
46	6.639	PV T	0.0366	6043.92334	1958.28650	3.01558
47	6.707	PV T	0.0106	501.36176	651.42682	0.25015
48	6.711	PV T	8.75e-3	324.01779	617.32660	0.16167
49	6.720	PV T	3.91e-3	134.25764	572.47168	0.06699
50	6.746	PV T	0.0274	3020.15039	1325.81702	1.50689
51	6.794	PV T	0.0122	661.90466	701.26208	0.33025
52	6.810	PV T	0.0221	1825.96277	991.93512	0.91105
53	6.884	PV T	0.0192	1288.47339	809.66974	0.64288
54	6.900	PV T	0.0197	840.09088	709.68207	0.41916
55	6.933	PV T	0.0137	483.20258	429.40857	0.24109
56	6.965	PV T	0.0125	550.74750	556.55731	0.27479
57	6.972	PB T	0.0123	574.19110	573.86298	0.28649
58	7.039	BV T	6.21e-3	33.53013	78.08337	0.01673
59	7.078	PV T	0.0275	1655.58325	717.68292	0.82604
60	7.137	PV T	3.74e-3	16.73082	66.38870	0.00835
61	7.160	PV T	0.0161	400.32022	312.97812	0.19974
62	7.172	PV T	6.78e-3	136.95398	336.45398	0.06833
63	7.189	PV T	0.0184	537.75873	359.53455	0.26831
64	7.230	PV T	0.0115	131.31801	140.23898	0.06552
65	7.274	PV T	0.0170	1126.10547	791.34619	0.56186
66	7.303	PV T	7.70e-3	253.08098	427.76559	0.12627
67	7.307	PB T	0.0130	337.82489	434.37656	0.16856
68	7.359	BV T	6.60e-3	19.38106	48.91032	0.00967
69	7.398	PV T	0.0348	1253.29102	424.76181	0.62532
70	7.468	PV T	0.0138	205.19495	193.80188	0.10238
71	7.479	PV T	4.05e-3	33.66053	138.64389	0.01679
72	7.493	PB T	0.0118	154.78618	170.80373	0.07723
73	7.566	PV T	2.32e-3	3.64917	26.20828	0.00182
74	7.615	PV T	0.0419	3277.91284	934.39014	1.63550
75	7.682	PV T	0.0148	442.51541	380.65738	0.22079
76	7.706	PV T	0.0238	982.79175	493.51447	0.49036
77	7.748	PV T	3.99e-3	13.19375	42.91692	0.00658
78	7.756	PV T	2.12e-3	3.24891	25.49825	0.00162
79	7.769	PV T	5.99e-3	41.26814	89.32729	0.02059
80	7.775	PB T	5.40e-3	36.31833	88.34811	0.01812
Totals :				2.00423e5	7.44292e4	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

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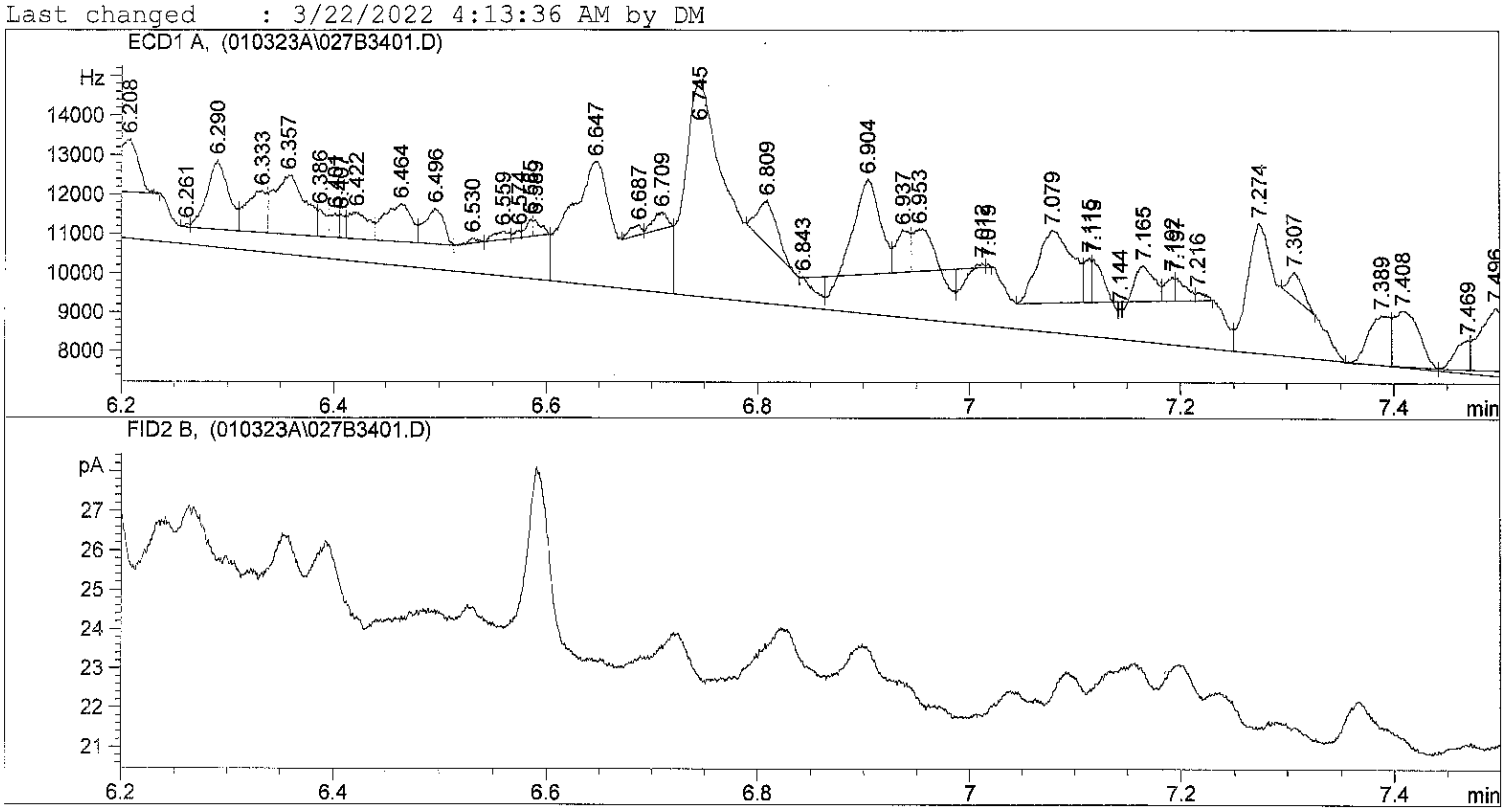
*** End of Report ***

Injection Date : 1/3/2023 9:18:29 PM Seq. Line : 34
Sample Name : 22L0473 11 Location : Vial 27
Acq. Operator : TW Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\010323A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 3/22/2022 4:13:36 AM by DM



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.215	BP S	0.0183	5.20287e4	4.69656e4	2.52105
2	5.301	PV S	0.0148	3122.99341	2713.31372	0.15132
3	5.328	PB T	4.31e-3	34.09563	113.22338	0.00165
4	5.374	PV S	0.0307	1.52510e4	6200.43652	0.73899
5	5.436	BV T	0.0168	2464.90894	1963.09619	0.11944
6	5.474	PV S	0.0228	1.16515e4	6674.22266	0.56457
7	5.559	PV S	0.0355	6.54953e4	2.26851e4	3.17357
8	5.613	PV S	0.0344	2.85062e4	1.38249e4	1.38127
9	5.668	PV S	0.0410	3.42940e4	1.39568e4	1.66172
10	5.751	PV S	0.0251	1.83254e4	9759.51855	0.88795
11	5.813	PV S	0.0570	3.04071e4	6292.06934	1.47338
12	5.863	BV T	0.0149	1440.19031	1211.58215	0.06978
13	5.876	PV T	4.77e-3	286.98431	1003.42676	0.01391
14	5.894	PV T	0.0185	3431.23975	2339.96289	0.16626
15	5.945	PV S	0.1028	5.08237e4	5882.84619	2.46266
16	5.997	BV T	6.07e-3	191.08545	457.47446	0.00926
17	6.001	PV T	9.45e-3	332.82306	587.02600	0.01613

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	6.032	PB T	0.0112	662.57910	730.21539	0.03211
19	6.081	BV T	0.0206	1047.32275	603.66876	0.05075
20	6.123	PV T	9.56e-3	247.92628	322.97919	0.01201
21	6.154	PV T	0.0196	1076.50256	669.11517	0.05216
22	6.168	PV T	3.85e-3	106.51150	460.64590	0.00516
23	6.208	PB T	0.0229	2569.18237	1346.05762	0.12449
24	6.261	BV T	4.18e-3	30.06592	98.04467	0.00146
25	6.290	PV T	0.0180	2505.57788	1756.40405	0.12141
26	6.333	PV T	0.0170	1434.81702	1061.46057	0.06952
27	6.357	PV T	0.0239	3000.71021	1504.40881	0.14540
28	6.386	PV T	9.05e-3	373.64316	688.27838	0.01810
29	6.401	PV T	0.0101	369.34723	608.18188	0.01790
30	6.407	PV T	5.89e-3	209.69101	593.34552	0.01016
31	6.422	PV T	0.0173	953.74323	691.64294	0.04621
32	6.464	PV T	0.0215	1711.80457	966.00385	0.08295
33	6.496	PV T	0.0149	1125.41125	915.19574	0.05453
34	6.530	PV T	6.28e-3	66.99146	137.68544	0.00325
35	6.559	PV T	0.0121	211.94048	217.86296	0.01027
36	6.574	PV T	5.83e-3	84.35546	188.25154	0.00409
37	6.585	PV T	6.87e-3	203.20251	433.60934	0.00985
38	6.589	PV T	8.54e-3	205.88625	401.70667	0.00998
39	6.647	PV S	0.0481	1.28298e4	3148.14673	0.62167
40	6.687	BV T	0.0107	215.97035	253.36403	0.01046
41	6.709	PV T	0.0120	418.09491	429.06198	0.02026
42	6.745	PV S	0.0922	4.28332e4	5491.73096	2.07548
43	6.809	BV T	0.0166	1433.94934	1118.93481	0.06948
44	6.843	PV T	0.0000	390.82422	33.03114	0.01894
45	6.904	PV T	0.0197	3740.47510	2414.46631	0.18124
46	6.937	PV T	0.0120	1028.78027	1069.49158	0.04985
47	6.953	PV T	0.0110	986.08301	1083.26611	0.04778
48	7.012	PV T	0.0000	277.08508	111.40981	0.01343
49	7.019	PB T	2.90e-3	14.93517	85.97125	0.00072
50	7.079	BV T	0.0279	4213.11914	1841.63098	0.20415
51	7.115	PV T	6.31e-3	527.56982	1117.28296	0.02556
52	7.119	PV T	0.0102	677.61682	1105.85413	0.03283
53	7.144	PV T	4.51e-3	48.01378	177.48375	0.00233
54	7.165	PV T	0.0153	1076.59351	900.83319	0.05217
55	7.192	PV T	7.82e-3	381.87317	616.83386	0.01850
56	7.197	PV T	0.0116	417.58496	597.60449	0.02023
57	7.216	PB T	0.0102	130.43822	212.92488	0.00632
58	7.274	PV S	0.0384	1.06549e4	3324.17944	0.51628
59	7.307	BB T	0.0125	603.43805	635.52869	0.02924
60	7.389	PV T	0.0172	1804.85754	1266.40649	0.08745
61	7.408	PV T	0.0201	2336.13379	1415.40686	0.11320
62	7.469	PV T	0.0123	728.71924	758.80420	0.03531
63	7.496	PV T	0.0261	3532.53540	1618.35608	0.17117
64	7.612	PBAS	0.0452	1.28438e4	3619.95435	0.62235
65	7.708	BV T	0.0231	1908.08838	998.95795	0.09246
66	7.751	PV T	3.06e-3	19.20299	91.06499	0.00093
67	7.778	PV T	0.0195	1054.64429	666.56506	0.05110
Totals :				2.06377e6	1.93230e5	

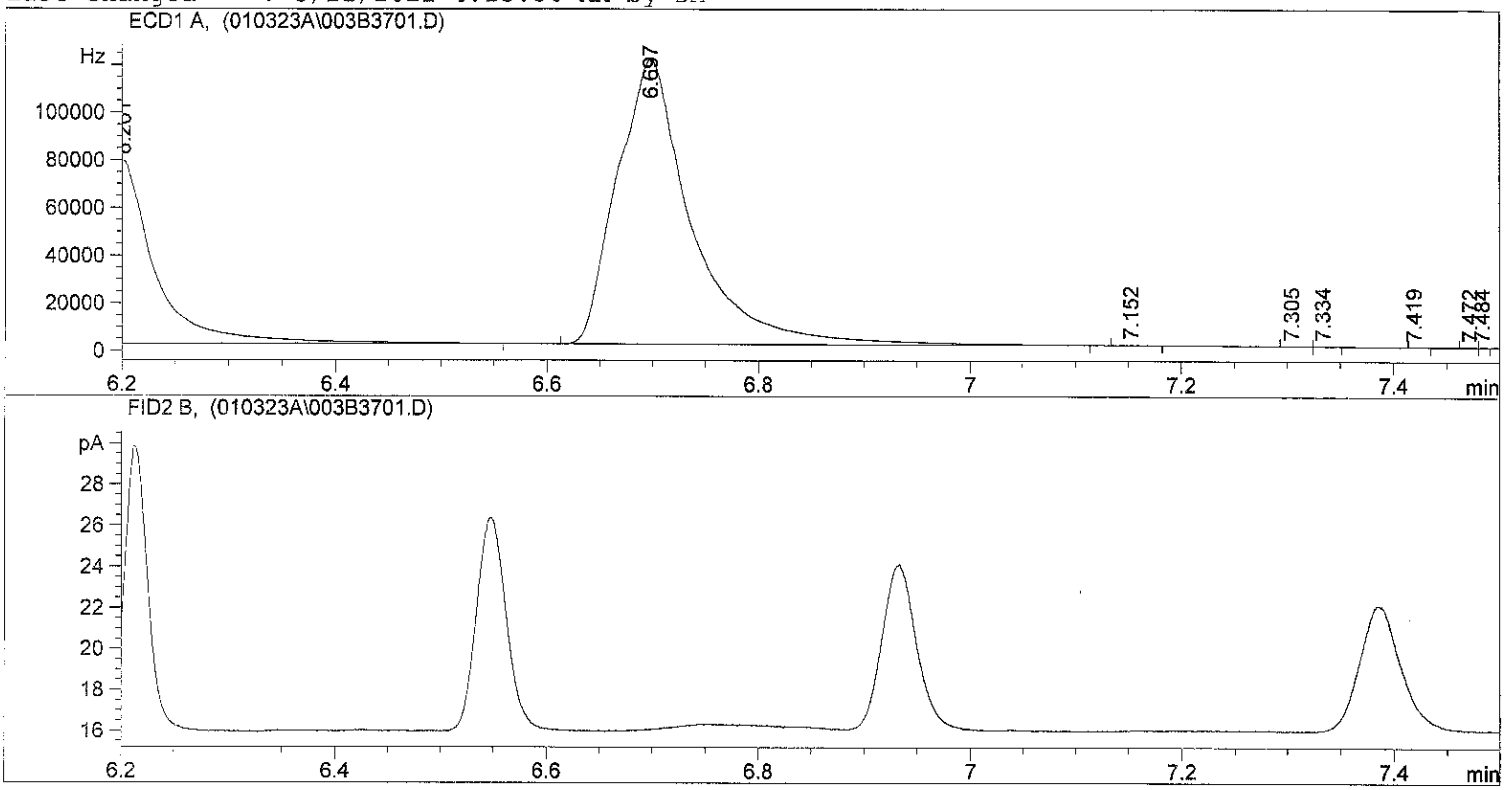
Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

Injection Date : 1/3/2023 9:52:06 PM Seq. Line : 37
Sample Name : CS4 STD Location : Vial 3
Acq. Operator : TW Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\010323A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 3/22/2022 4:13:36 AM by DM



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.297	BP	4.25e-3	172.09354	978.69702	0.00524
2	5.409	VP	0.0205	76.01234	44.18110	0.00232
3	5.515	VV S	0.0331	5.52256e5	2.24782e5	16.82429
4	5.613	VV S	0.0461	8.10714e5	2.93264e5	24.69813
5	5.676	VV S	0.0404	2.70958e5	1.11824e5	8.25464
6	5.726	VV S	0.0565	3.07167e5	9.05842e4	9.35775
7	5.968	VV S	0.0417	2.94274e5	1.17651e5	8.96497
8	6.120	VV S	0.0431	2.08195e5	8.04215e4	6.34258
9	6.201	VB S	0.0551	2.54196e5	7.69499e4	7.74400
10	6.697	PB S	0.0611	5.84032e5	1.19839e5	17.79235
11	7.152	PB	0.0154	30.36307	23.62431	0.00093
12	7.305	PV	0.0163	12.90865	9.72777	0.00039
13	7.334	VB	0.0147	44.39241	36.71929	0.00135
14	7.419	PP	5.15e-3	5.03835	12.91990	0.00015
15	7.472	PP	6.38e-3	6.57538	13.26071	0.00020
16	7.484	VP	3.14e-3	2.51085	11.52904	7.649e-5
17	7.647	BB	0.0291	323.42148	131.33997	0.00985

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	7.721	BP	9.75e-3	12.77324	21.82924	0.00039
19	7.735	VB	4.28e-3	3.62577	11.50904	0.00011
20	7.754	BB	8.52e-3	9.03410	14.38908	0.00028

Totals : 3.28249e6 1.11663e6

Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLA0121	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LCS	BLA0079-BS1	23020705	01/11/2023	
Blank	BLA0079-BLK1	23020704	01/11/2023	
Reference	BLA0079-SRM1	23020706	01/11/2023	
LDW23-SC1070B	22L0459-06	23020719	01/11/2023	
LDW23-SC1053C	22L0459-02	23020718	01/11/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0121

Matrix: Solid **Cleanup using: HRGCMS - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 1/13/2023 1:23:13PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0383-06	C	LDW23-SC1191B	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0383-07	C	LDW23-SC1191B-FD	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-01	C	LDW23-SC1064C	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-02	C	LDW23-SC1065C	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-03	C	LDW23-SC1060D	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-04	C	LDW23-SC1059C	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-06	C	LDW23-SC1046C	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-07	C	LDW23-SC1143C	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0459-02	A	LDW23-SC1053C	A 04	20	20	1613B Dioxin	1/11/2023	DxP	
22L0459-06	A	LDW23-SC1070B	A 04	20	20	1613B Dioxin	1/11/2023	DxP	
22L0473-11	A	LDW21-IT632A	A 02	20	20	1613B Dioxin	1/11/2023	DxP	
BLA0079-BLK1	-	Blank	-	20	20	-	1/11/2023	DxP	
BLA0079-BS1	-	LCS	-	20	20	-	1/11/2023	DxP	
BLA0079-DUP1	-	Duplicate	-	20	20	-	1/11/2023	DxP	
BLA0079-SRM1	-	Reference	-	20	20	-	1/11/2023	DxP	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLA0122	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	BLA0079-BLK1	23020704	01/12/2023	
LDW23-SC1070B	22L0459-06	23020719	01/12/2023	
LDW23-SC1053C	22L0459-02	23020718	01/12/2023	
Reference	BLA0079-SRM1	23020706	01/12/2023	
LCS	BLA0079-BS1	23020705	01/12/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0122

Matrix: Solid **Cleanup using: HRGCMS - EPA 3660C Silica Gel Cleanup - uL** **Printed: 1/13/2023 1:23:34PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0383-06	C	LDW23-SC1191B	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0383-07	C	LDW23-SC1191B-FD	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-01	C	LDW23-SC1064C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-02	C	LDW23-SC1065C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-03	C	LDW23-SC1060D	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-04	C	LDW23-SC1059C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-06	C	LDW23-SC1046C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-07	C	LDW23-SC1143C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0459-02	A	LDW23-SC1053C	A 04	20	20	1613B Dioxin	1/12/2023	DxP	
22L0459-06	A	LDW23-SC1070B	A 04	20	20	1613B Dioxin	1/12/2023	DxP	
22L0473-11	A	LDW21-IT632A	A 02	20	20	1613B Dioxin	1/12/2023	DxP	
BLA0079-BLK1	-	Blank	-	20	20	-	1/12/2023	DxP	
BLA0079-BS1	-	LCS	-	20	20	-	1/12/2023	DxP	
BLA0079-DUP1	-	Duplicate	-	20	20	-	1/12/2023	DxP	
BLA0079-SRM1	-	Reference	-	20	20	-	1/12/2023	DxP	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLA0123	Cleanup Type:	Florisil
Cleanup Method:	EPA 3620B Florisil Cleanup (uL)	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LCS	BLA0079-BS1	23020705	01/12/2023	
Reference	BLA0079-SRM1	23020706	01/12/2023	
Blank	BLA0079-BLK1	23020704	01/12/2023	
LDW23-SC1070B	22L0459-06	23020719	01/12/2023	
LDW23-SC1053C	22L0459-02	23020718	01/12/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0123

Matrix: Solid **Cleanup using: HRGCMS - EPA 3620B Florisil Cleanup (uL)** **Check Standard: CKK0015-FLO1** **Printed: 1/13/2023 1:23:56PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0383-06	C	LDW23-SC1191B	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0383-07	C	LDW23-SC1191B-FD	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-01	C	LDW23-SC1064C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-02	C	LDW23-SC1065C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-03	C	LDW23-SC1060D	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-04	C	LDW23-SC1059C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-06	C	LDW23-SC1046C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-07	C	LDW23-SC1143C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0459-02	A	LDW23-SC1053C	A 04	20	20	1613B Dioxin	1/12/2023	DxP	
22L0459-06	A	LDW23-SC1070B	A 04	20	20	1613B Dioxin	1/12/2023	DxP	
22L0473-11	A	LDW21-IT632A	A 02	20	20	1613B Dioxin	1/12/2023	DxP	
BLA0079-BLK1	-	Blank	-	20	20	-	1/12/2023	DxP	
BLA0079-BS1	-	LCS	-	20	20	-	1/12/2023	DxP	
BLA0079-DUP1	-	Duplicate	-	20	20	-	1/12/2023	DxP	
BLA0079-SRM1	-	Reference	-	20	20	-	1/12/2023	DxP	

Blank

Form 1
METHOD BLANK DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLA0079-BLK1	File ID:	23020704
Sampled:	N/A	Prepared:	01/09/23 15:50	Analyzed:	02/07/23 11:09
Solids Wt%:		Preparation:	EPA 1613	Initial/Final:	10 g / 20 uL
Result Basis:	Dry	Sequence:	SLB0072	Calibration:	GB00010
Batch:	BLA0079	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.149	1.00	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.133	1.00	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.146	1.00	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.145	1.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	1.117	1.318-1.783	0.184	1.00	0.216	ng/kg	EMPC, J
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.808	1.054-1.426	0.108	1.00	0.190	ng/kg	EMPC, J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.423	1.054-1.426	0.099	1.00	0.168	ng/kg	J
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.812	1.054-1.426	0.105	1.00	0.202	ng/kg	EMPC, J
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.982	1.054-1.426	0.121	1.00	0.262	ng/kg	EMPC, J
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.152	1.00	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.145	1.00	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.073	1.054-1.426	0.151	1.00	0.289	ng/kg	J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.840	0.893-1.208	0.121	1.00	0.501	ng/kg	EMPC, J
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.169	1.00	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.008	0.893-1.208	0.163	2.50	1.09	ng/kg	J
39001-02-0	OCDF	1	0.853	0.757-1.024	0.248	2.50	2.20	ng/kg	J
3268-87-9	OCDD	1	0.871	0.757-1.024	0.263	10.0	6.29	ng/kg	J

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	0.168	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	0.289	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	0.772	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	1.59	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.346
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.459

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Blank

Form 2
METHOD BLANK DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLA0079-BLK1	File ID:	23020704
Sampled:	N/A	Prepared:	01/09/23 15:50	Analyzed:	02/07/23 11:09
Solids Wt%:	0.00	Preparation:	EPA 1613	Initial/Final:	10 g / 20 uL
Result Basis:	Dry	Sequence:	SLB0072	Calibration:	GB00010
Batch:	BLA0079	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF	1	0.779	0.655-0.886	0.17	78.6	24 - 169 %	
13C12-2,3,7,8-TCDD	1	0.775	0.655-0.886	0.24	90.3	25 - 164 %	
13C12-1,2,3,7,8-PeCDF	1	1.510	1.318-1.783	0.22	92.3	24 - 185 %	
13C12-2,3,4,7,8-PeCDF	1	1.553	1.318-1.783	0.23	89.0	21 - 178 %	
13C12-1,2,3,7,8-PeCDD	1	1.646	1.318-1.783	0.22	94.0	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF	1	0.506	0.434-0.587	0.31	100	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF	1	0.512	0.434-0.587	0.30	101	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF	1	0.499	0.434-0.587	0.32	98.5	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF	1	0.503	0.434-0.587	0.35	94.3	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD	1	1.293	1.054-1.426	0.36	106	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD	1	1.273	1.054-1.426	0.35	108	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF	1	0.438	0.374-0.506	0.34	92.7	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF	1	0.453	0.374-0.506	0.39	93.5	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD	1	1.118	0.893-1.208	0.33	96.6	23 - 140 %	
13C12-OCDD	1	0.909	0.757-1.024	0.32	85.8	17 - 157 %	
37Cl4-2,3,7,8-TCDD	1	328.000		0.08	73.3	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:28:45 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.876		0.770	740	971								
12378-PeCDF					0.845		1.550	735	962								
23478-PeCDF					0.911		1.550	735	962								
123478-HxCDF	34.984	1.000	2.010e2	2.487e2	1.182	0.808	1.240	704	649	4.14e3	4.13e3	5.9	6.4	YES	bd	bd	0.095
234678-HxCDF	35.987	1.000	3.033e2	1.673e2	1.229	1.812	1.240	704	649	4.12e3	3.05e3	5.8	4.7	YES	bb	bb	0.101
123678-HxCDF	35.140	1.001	2.558e2	1.797e2	1.248	1.423	1.240	704	649	4.94e3	4.87e3	7.0	7.5	NO	db	MM	0.084
123789-HxCDF	37.023	1.001	2.556e2	2.602e2	1.187	0.982	1.240	704	649	4.48e3	3.81e3	6.4	5.9	YES	bb	bb	0.131
1234678-HpCDF	38.861	1.001	5.022e2	5.978e2	1.204	0.840	1.050	873	581	7.99e3	9.56e3	9.2	16.4	YES	bb	bb	0.251
1234789-HpCDF					1.165		1.050	873	581								
OCDF	45.358	1.006	1.541e3	1.807e3	1.186	0.853	0.890	832	713	2.37e4	2.38e4	28.4	33.3	NO	bb	bb	1.099
2378-TCDD					1.236		0.770	874	692								
12378-PeCDD	31.619	1.000	2.051e2	1.835e2	1.087	1.117	1.550	816	772	5.52e3	2.93e3	6.8	3.8	YES	bb	bb	0.108
123478-HxCDD					0.987		1.240	734	806								
123678-HxCDD					1.021		1.240	734	806								
123789-HxCDD	36.599	1.011	2.842e2	2.647e2	0.985	1.073	1.240	734	806	4.22e3	5.22e3	5.8	6.5	NO	bb	bb	0.144
1234678-HpCDD	40.354	1.000	9.809e2	9.731e2	1.253	1.008	1.050	765	682	1.44e4	1.46e4	18.8	21.5	NO	bb	bb	0.544
OCDD	45.129	1.001	4.144e3	4.756e3	1.103	0.871	0.890	687	832	5.04e4	6.74e4	73.3	81.0	NO	bb	bb	3.144
13C-2378-TCDF	25.867	1.006	2.342e5	3.005e5	1.768	0.779	0.770	1577	1258	3.44e6	4.35e6	2178.3	3455.0	NO	bb	bb	78.576
13C-12378-PeCDF	30.026	1.168	3.264e5	2.161e5	1.527	1.510	1.550	1681	1612	4.96e6	3.24e6	2952.7	2013.2	NO	bb	bd	92.302
13C-23478-PeCDF	31.363	1.220	3.057e5	1.969e5	1.466	1.553	1.550	1681	1612	4.69e6	3.02e6	2790.6	1875.6	NO	bb	bb	89.047
13C-123478-HxCDF	34.973	0.956	1.348e5	2.665e5	1.054	0.506	0.510	1407	2008	2.14e6	4.27e6	1521.7	2128.0	NO	bd	bd	100.370
13C-123678-HxCDF	35.118	0.960	1.408e5	2.749e5	1.080	0.512	0.510	1407	2008	2.24e6	4.32e6	1589.1	2151.7	NO	db	db	101.445
13C-234678-HxCDF	35.975	0.983	1.262e5	2.529e5	1.014	0.499	0.510	1407	2008	2.09e6	4.15e6	1484.6	2069.5	NO	bb	bb	98.521
13C-123789-HxCDF	37.001	1.011	1.111e5	2.210e5	0.928	0.503	0.510	1407	2008	1.89e6	3.72e6	1340.3	1852.2	NO	bb	bb	94.343
13C-1234678-HpCDF	38.839	1.062	1.110e5	2.534e5	1.036	0.438	0.440	1558	2135	1.83e6	3.99e6	1173.1	1867.7	NO	bb	bd	92.688
13C-1234789-HpCDF	41.090	1.123	1.002e5	2.210e5	0.905	0.453	0.440	1558	2135	1.38e6	3.04e6	886.9	1423.9	NO	bb	bd	93.537
13C-1234-TCDD	25.700	0.000	1.709e5	2.140e5	1.000	0.799	0.770	1474	1063	2.58e6	3.24e6	1750.7	3043.8	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	1.674e5	2.159e5	1.103	0.775	0.770	1474	1063	2.50e6	3.24e6	1695.5	3042.9	NO	bb	bb	90.285
13C-12378-PeCDD	31.608	1.230	2.058e5	1.250e5	0.914	1.646	1.550	1090	851	2.97e6	1.81e6	2725.3	2128.9	NO	bd	bb	94.001
13C-123478-HxCDD	36.087	0.986	2.122e5	1.642e5	0.933	1.293	1.240	1803	1732	3.47e6	2.71e6	1924.8	1564.1	NO	bd	bd	106.336
13C-123678-HxCDD	36.198	0.989	2.210e5	1.736e5	0.965	1.273	1.240	1803	1732	3.49e6	2.77e6	1934.1	1599.1	NO	db	db	107.815
13C-1234678-HpCDD	40.343	1.103	1.514e5	1.354e5	0.782	1.118	1.050	1426	1283	2.24e6	2.08e6	1569.3	1622.0	NO	bb	bb	96.637
13C-OCDD	45.102	1.233	2.444e5	2.690e5	0.788	0.909	0.890	1283	1370	3.00e6	3.29e6	2335.0	2399.8	NO	bb	bb	171.672
13C-123789-HxCDD	36.588	0.000	2.099e5	1.695e5	1.000	1.238	1.240	1803	1732	3.50e6	2.78e6	1943.7	1606.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	1.392e5		1.233			947		2.12e6		2235.6			bb		29.315

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:28:45 Pacific Standard Time

ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	740	971								
1289-TCDF					0.858		0.770	740	971								
13468-PECDF					1.013		1.550	637	952								
12389-PECDF					0.844		1.550	735	962								
123468-HXCDF	33.324	0.953	8.078e1	8.816e1	1.197	0.916	1.240	704	649	1.34e3	1.61e3	1.9	2.5	YES	bb	bb	0.035
1368-TCDD					1.084		0.770	874	692								
1289-TCDD					0.975		0.770	874	692								
12479-PECDD					1.837		1.550	816	772								
12389-PECDD					1.252		1.550	816	772								
124679-HXCDD					1.033		1.240	734	806								
1234679-HPCDD	39.307	0.974	4.636e2	4.600e2	1.286	1.008	1.050	765	682	6.10e3	7.65e3	8.0	11.2	NO	bb	bb	0.250
Total-tetrafurans			0.000e0		0.933			740		0.00e0							
Total-penta1			0.000e0					637		0.00e0							
Total-pentafurans			0.000e0		0.866			735		0.00e0							
Total-hexafurans			2.558e2		1.208			704		4.94e3							0.084
Total-heptafurans			7.679e2		1.185			873		1.18e4							0.386
Total-Furans			2.564e3		1.067			740		4.04e4							1.569
Total-tetradioxins			0.000e0		1.099			874		0.00e0							
Total-pentadioxins			0.000e0		1.392			816		0.00e0							
Total-hexadioxins			2.842e2		1.007			734		4.22e3							0.144
Total-heptadioxins			1.444e3		1.269			765		2.05e4							0.795
Total-Dioxins			5.873e3		1.165			874		7.51e4							4.083
Total-TEQ			8.437e3					874		1.15e5							5.653
FUNCTION1 PFK			2.062e7					289446		1.38e8							
FUNCTION2 PFK			2.761e4					221887		7.81e5							0.000
FUNCTION3 PFK			4.027e5					199611		9.97e6							0.000
FUNCTION4 PFK			1.375e7					180006		9.29e7							
FUNCTION5 PFK			4.075e4					120986		1.78e6							
FUNCTION1 HXCD...			6.277e2					470		7.86e3							0.000
FUNCTION1 HPCD...			4.360e2					689		6.58e3							0.000
FUNCTION2 HPCD...			6.163e2					858		1.13e4							0.000
FUNCTION3 OCDPE			3.347e2					624		4.96e3							0.000
FUNCTION4 NCDPE			8.255e1					711		1.97e3							0.000
FUNCTION5 DCDPE			0.000e0					561		0.00e0							

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.14	2.558e2	1.797e2	1.248	1.42	1.24	7.0	YES	NO	db	MM	0.084

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.52	7.679e2	8.000e2	1.185	0.96	1.05	13.5	YES	NO	bb	bb	0.386

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.14	2.558e2	1.797e2	1.248	1.42	1.24	7.0	YES	NO	db	MM	0.084
2	OCDF	45.36	1.541e3	1.807e3	1.186	0.85	0.89	28.4	YES	NO	bb	bb	1.099
3	Total-heptafurans	39.52	7.679e2	8.000e2	1.185	0.96	1.05	13.5	YES	NO	bb	bb	0.386

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.60	2.842e2	2.647e2	0.985	1.07	1.24	5.8	YES	NO	bb	bb	0.144

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	9.809e2	9.731e2	1.253	1.01	1.05	18.8	YES	NO	bb	bb	0.544
2	1234679-HPCDD	39.31	4.636e2	4.600e2	1.286	1.01	1.05	8.0	YES	NO	bb	bb	0.250

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.60	2.842e2	2.647e2	0.985	1.07	1.24	5.8	YES	NO	bb	bb	0.144
2	1234678-HpCDD	40.35	9.809e2	9.731e2	1.253	1.01	1.05	18.8	YES	NO	bb	bb	0.544
3	1234679-HPCDD	39.31	4.636e2	4.600e2	1.286	1.01	1.05	8.0	YES	NO	bb	bb	0.250
4	OCDD	45.13	4.144e3	4.756e3	1.103	0.87	0.89	73.3	YES	NO	bb	bb	3.144

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.14	2.558e2	1.797e2	1.248	1.42	1.24	7.0	YES	NO	db	MM	0.084
2	OCDF	45.36	1.541e3	1.807e3	1.186	0.85	0.89	28.4	YES	NO	bb	bb	1.099
3	Total-heptafurans	39.52	7.679e2	8.000e2	1.185	0.96	1.05	13.5	YES	NO	bb	bb	0.386
4	123789-HxCDD	36.60	2.842e2	2.647e2	0.985	1.07	1.24	5.8	YES	NO	bb	bb	0.144
5	1234678-HpCDD	40.35	9.809e2	9.731e2	1.253	1.01	1.05	18.8	YES	NO	bb	bb	0.544
6	1234679-HPCDD	39.31	4.636e2	4.600e2	1.286	1.01	1.05	8.0	YES	NO	bb	bb	0.250
7	OCDD	45.13	4.144e3	4.756e3	1.103	0.87	0.89	73.3	YES	NO	bb	bb	3.144

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.12	2.853e5					18.2	YES		bd		
2	FUNCTION1 PFK	21.97	4.654e5					15.4	YES		db		
3	FUNCTION1 PFK	21.84	8.322e5					15.7	YES		dd		
4	FUNCTION1 PFK	21.62	7.346e5					12.5	YES		dd		
5	FUNCTION1 PFK	21.35	2.976e5					7.6	YES		dd		
6	FUNCTION1 PFK	21.25	1.134e5					5.5	YES		dd		
7	FUNCTION1 PFK	21.16	2.512e4					3.0	NO		bd		
8	FUNCTION1 PFK	24.85	1.676e5					4.9	YES		db		
9	FUNCTION1 PFK	24.67	3.364e5					10.2	YES		dd		
10	FUNCTION1 PFK	24.64	2.823e5					10.4	YES		bd		
11	FUNCTION1 PFK	24.38	7.145e5					16.4	YES		db		
12	FUNCTION1 PFK	24.23	5.193e5					18.8	YES		dd		
13	FUNCTION1 PFK	24.19	4.078e5					18.4	YES		dd		
14	FUNCTION1 PFK	24.02	5.881e5					21.7	YES		dd		
15	FUNCTION1 PFK	23.90	7.965e5					24.0	YES		dd		
16	FUNCTION1 PFK	23.72	2.742e6					26.8	YES		dd		
17	FUNCTION1 PFK	23.37	1.635e6					30.5	YES		bd		
18	FUNCTION1 PFK	23.21	1.009e6					31.8	YES		db		
19	FUNCTION1 PFK	23.04	2.450e6					30.9	YES		dd		
20	FUNCTION1 PFK	22.83	8.531e5					27.9	YES		dd		
21	FUNCTION1 PFK	22.66	1.149e6					25.6	YES		bd		
22	FUNCTION1 PFK	22.40	1.294e6					24.8	YES		db		
23	FUNCTION1 PFK	22.25	8.995e5					22.2	YES		dd		
24	FUNCTION1 PFK	28.16	7.817e3					0.9	NO		bb		
25	FUNCTION1 PFK	27.86	5.778e4					1.5	NO		bb		
26	FUNCTION1 PFK	27.70	7.108e4					2.1	NO		bb		
27	FUNCTION1 PFK	27.50	2.242e4					1.9	NO		db		
28	FUNCTION1 PFK	27.44	7.228e4					2.8	NO		bd		
29	FUNCTION1 PFK	27.17	1.572e4					1.6	NO		bb		
30	FUNCTION1 PFK	27.05	3.013e4					2.3	NO		db		
31	FUNCTION1 PFK	26.95	2.813e4					1.7	NO		bd		
32	FUNCTION1 PFK	26.71	3.118e4					1.8	NO		bb		
33	FUNCTION1 PFK	26.29	7.879e4					1.0	NO		db		
34	FUNCTION1 PFK	25.99	4.197e5					7.7	YES		bd		
35	FUNCTION1 PFK	25.85	3.007e4					3.4	YES		db		
36	FUNCTION1 PFK	25.68	5.685e5					11.3	YES		bd		
37	FUNCTION1 PFK	25.49	4.547e5					10.0	YES		db		

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	25.29	1.379e5					4.7	YES		bd		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.25	2.051e4					1.9	NO		bb		0.000
2	FUNCTION2 PFK	30.76	4.081e3					0.9	NO		bb		0.000
3	FUNCTION2 PFK	28.39	3.015e3					0.7	NO		bb		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.65	7.287e3					1.0	NO		db		0.000
2	FUNCTION3 PFK	34.58	2.427e3					0.5	NO		bd		0.000
3	FUNCTION3 PFK	34.42	9.359e3					1.2	NO		bb		0.000
4	FUNCTION3 PFK	34.29	3.216e4					1.6	NO		db		0.000
5	FUNCTION3 PFK	34.15	1.238e4					1.0	NO		bd		0.000
6	FUNCTION3 PFK	34.09	9.138e2					0.4	NO		bb		0.000
7	FUNCTION3 PFK	33.98	1.889e3					0.6	NO		bb		0.000
8	FUNCTION3 PFK	33.93	6.135e3					1.2	NO		bb		0.000
9	FUNCTION3 PFK	33.35	1.212e4					1.3	NO		bb		0.000
10	FUNCTION3 PFK	33.11	2.367e4					2.1	NO		bb		0.000
11	FUNCTION3 PFK	33.03	1.596e4					3.4	YES		db		0.000
12	FUNCTION3 PFK	33.01	3.900e4					3.8	YES		bd		0.000
13	FUNCTION3 PFK	36.89	9.500e3					1.1	NO		bb		0.000
14	FUNCTION3 PFK	36.72	4.087e3					0.9	NO		db		0.000
15	FUNCTION3 PFK	36.68	5.700e3					0.9	NO		bd		0.000
16	FUNCTION3 PFK	36.04	8.924e3					1.3	NO		bb		0.000
17	FUNCTION3 PFK	35.96	7.218e3					1.3	NO		db		0.000
18	FUNCTION3 PFK	35.93	9.054e3					1.6	NO		bd		0.000
19	FUNCTION3 PFK	35.73	5.095e3					1.0	NO		db		0.000
20	FUNCTION3 PFK	35.70	5.468e3					1.0	NO		dd		0.000
21	FUNCTION3 PFK	35.62	1.532e4					1.4	NO		bd		0.000
22	FUNCTION3 PFK	35.50	8.556e2					0.4	NO		bb		0.000
23	FUNCTION3 PFK	35.45	3.114e3					0.8	NO		bb		0.000
24	FUNCTION3 PFK	35.39	1.026e4					1.7	NO		bb		0.000
25	FUNCTION3 PFK	35.01	3.671e3					1.1	NO		bb		0.000
26	FUNCTION3 PFK	34.95	1.166e4					1.5	NO		db		0.000
27	FUNCTION3 PFK	34.89	3.308e3					0.7	NO		dd		0.000
28	FUNCTION3 PFK	34.78	1.623e4					1.5	NO		bd		0.000
29	FUNCTION3 PFK	37.97	6.115e3					1.0	NO		bb		0.000
30	FUNCTION3 PFK	37.87	1.022e4					1.3	NO		bb		0.000
31	FUNCTION3 PFK	37.76	6.193e3					1.1	NO		bb		0.000
32	FUNCTION3 PFK	37.42	3.481e3					0.9	NO		bb		0.000
33	FUNCTION3 PFK	37.38	4.374e3					1.0	NO		bb		0.000
34	FUNCTION3 PFK	37.26	3.803e3					0.8	NO		bb		0.000
35	FUNCTION3 PFK	37.20	9.608e3					1.6	NO		bb		0.000
36	FUNCTION3 PFK	37.11	3.551e4					3.3	YES		db		0.000
37	FUNCTION3 PFK	37.02	4.063e4					2.4	NO		bd		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.01	1.142e6					38.8	YES		dd		
2	FUNCTION4 PFK	38.85	7.584e5					43.7	YES		dd		
3	FUNCTION4 PFK	38.69	1.193e6					48.8	YES		dd		
4	FUNCTION4 PFK	38.26	4.882e6					63.4	YES		dd		
5	FUNCTION4 PFK	38.17	9.269e5					66.8	YES		dd		
6	FUNCTION4 PFK	38.08	1.218e6					69.2	YES		bd		
7	FUNCTION4 PFK	42.44	1.085e4					2.0	NO		bd		
8	FUNCTION4 PFK	42.19	4.988e3					0.9	NO		bb		
9	FUNCTION4 PFK	41.88	6.037e3					1.1	NO		bb		
10	FUNCTION4 PFK	41.74	1.949e4					2.0	NO		bb		
11	FUNCTION4 PFK	41.55	5.247e4					3.6	YES		db		
12	FUNCTION4 PFK	41.47	2.173e4					2.1	NO		bd		
13	FUNCTION4 PFK	41.00	4.181e3					0.9	NO		bb		
14	FUNCTION4 PFK	40.11	5.015e4					3.3	YES		db		
15	FUNCTION4 PFK	39.93	1.912e5					9.3	YES		dd		
16	FUNCTION4 PFK	39.89	7.692e4					9.9	YES		dd		
17	FUNCTION4 PFK	39.73	3.746e5					16.2	YES		dd		
18	FUNCTION4 PFK	39.66	2.294e5					17.4	YES		dd		
19	FUNCTION4 PFK	39.54	3.905e5					21.6	YES		dd		
20	FUNCTION4 PFK	39.44	5.707e5					24.6	YES		dd		
21	FUNCTION4 PFK	39.30	1.056e6					29.4	YES		dd		
22	FUNCTION4 PFK	39.12	5.413e5					35.0	YES		dd		
23	FUNCTION4 PFK	42.85	6.970e3					1.7	NO		bb		
24	FUNCTION4 PFK	42.52	1.046e4					1.9	NO		db		
25	FUNCTION4 PFK	42.47	1.526e4					2.3	NO		dd		

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.16	2.073e3					0.8	NO		bb		
2	FUNCTION5 PFK	45.85	1.508e3					0.8	NO		bb		
3	FUNCTION5 PFK	45.76	5.388e3					1.5	NO		bb		
4	FUNCTION5 PFK	45.41	5.533e2					0.5	NO		bb		
5	FUNCTION5 PFK	44.98	3.282e3					1.4	NO		bb		
6	FUNCTION5 PFK	44.73	5.334e3					1.6	NO		db		
7	FUNCTION5 PFK	44.68	7.316e3					1.9	NO		bd		
8	FUNCTION5 PFK	44.58	6.562e3					1.8	NO		bb		
9	FUNCTION5 PFK	44.37	1.930e3					0.9	NO		bb		
10	FUNCTION5 PFK	44.17	6.441e2					0.6	NO		bb		
11	FUNCTION5 PFK	44.13	2.071e3					1.0	NO		bb		
12	FUNCTION5 PFK	43.32	3.370e3					1.3	NO		bb		
13	FUNCTION5 PFK	46.47	7.160e2					0.6	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.68	7.944e1					2.7	NO		bb		0.000
2	FUNCTION1 HXCD...	26.86	7.321e1					3.3	YES		bb		0.000
3	FUNCTION1 HXCD...	26.44	1.097e2					2.2	NO		bb		0.000
4	FUNCTION1 HXCD...	23.51	1.043e2					2.5	NO		bb		0.000
5	FUNCTION1 HXCD...	22.28	1.509e2					3.3	YES		bb		0.000
6	FUNCTION1 HXCD...	21.39	1.102e2					2.6	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.91	7.135e1					2.3	NO		bb		0.000
2	FUNCTION1 HPCD...	26.44	1.059e2					1.4	NO		bb		0.000
3	FUNCTION1 HPCD...	25.10	7.289e1					1.9	NO		bb		0.000
4	FUNCTION1 HPCD...	24.23	7.876e1					1.5	NO		bb		0.000
5	FUNCTION1 HPCD...	23.87	1.071e2					2.4	NO		bb		0.000

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ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	29.98	7.807e1					1.6	NO		bb		0.000
2	FUNCTION2 HPCD...	32.80	7.942e1					1.6	NO		bb		0.000
3	FUNCTION2 HPCD...	32.06	8.693e1					2.0	NO		bb		0.000
4	FUNCTION2 HPCD...	31.85	7.358e1					2.1	NO		bb		0.000
5	FUNCTION2 HPCD...	31.78	1.298e2					2.8	NO		db		0.000
6	FUNCTION2 HPCD...	31.65	7.212e1					1.7	NO		bd		0.000
7	FUNCTION2 HPCD...	31.07	9.637e1					1.4	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.67	7.720e1					1.5	NO		bb		0.000
2	FUNCTION3 OCDPE	35.36	7.136e1					2.0	NO		bb		0.000
3	FUNCTION3 OCDPE	35.10	1.119e2					2.8	NO		db		0.000
4	FUNCTION3 OCDPE	34.98	7.430e1					1.6	NO		bd		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.14	8.255e1					2.8	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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Printed: Wednesday, February 08, 2023 09:28:45 Pacific Standard Time

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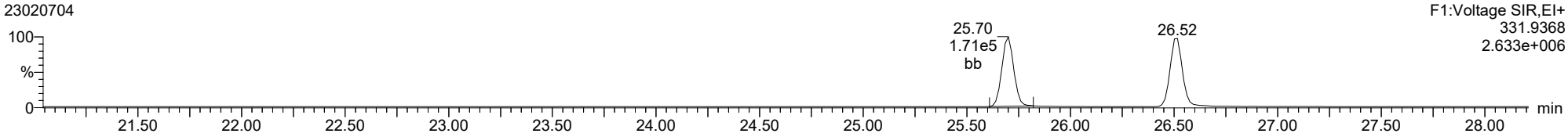
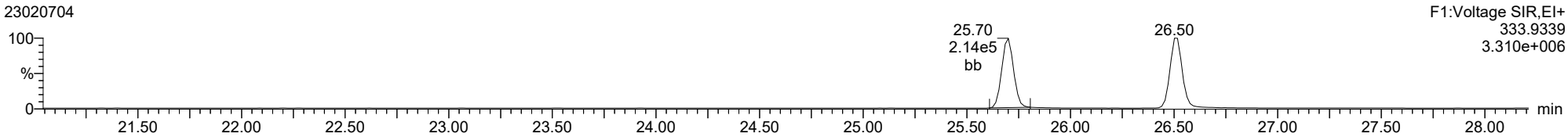
ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

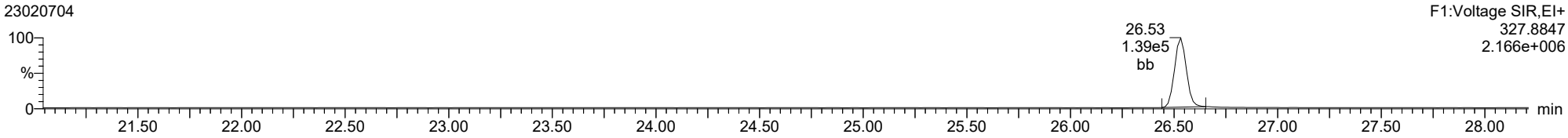
13C-1234-TCDD



13C-1234-TCDD



37CL-2378-TCDD



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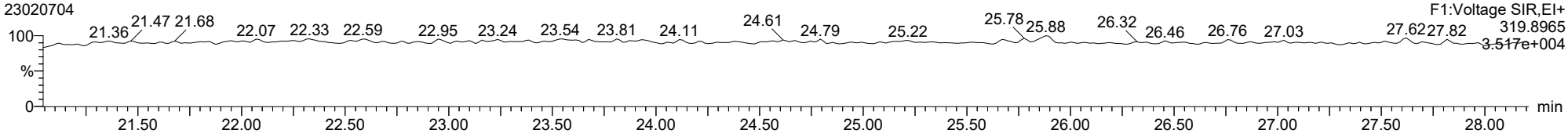

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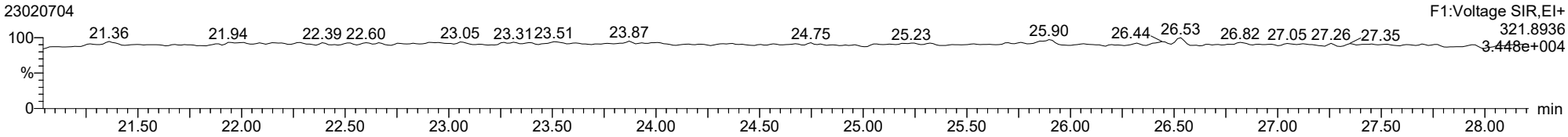

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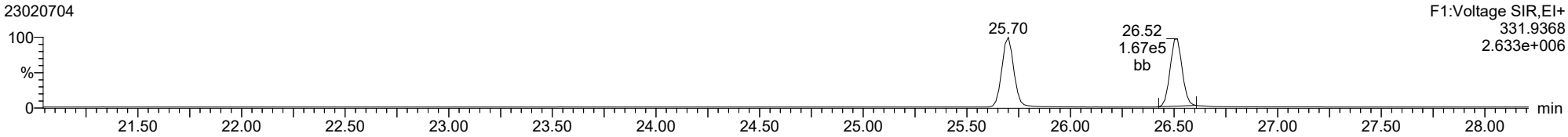

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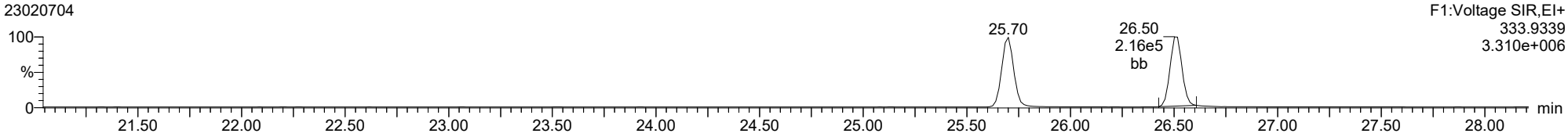

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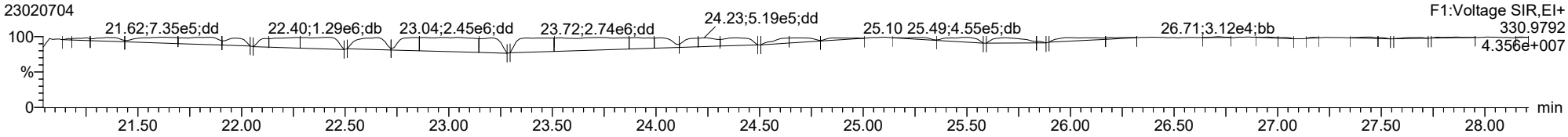

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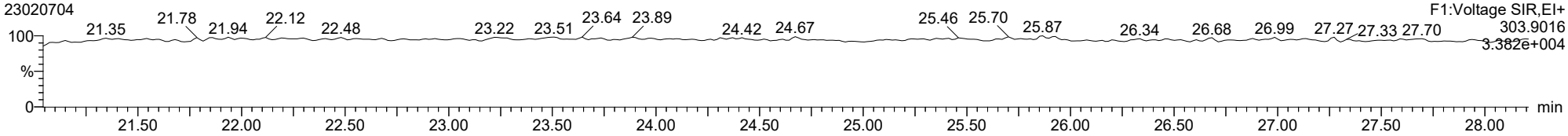
2378-TCDF



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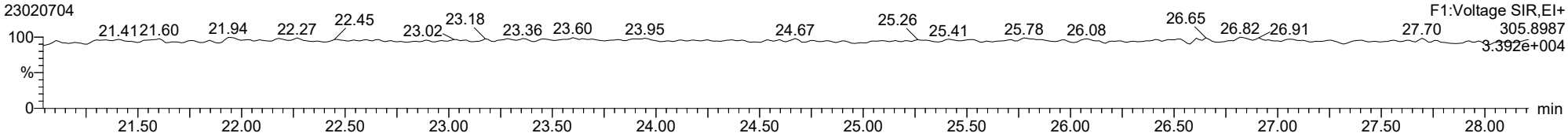

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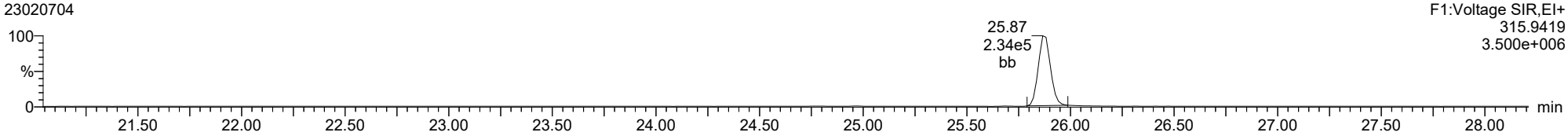

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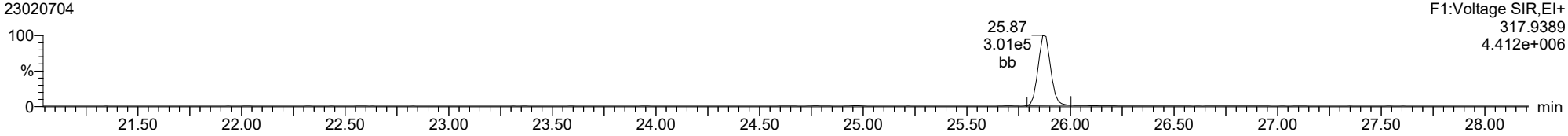

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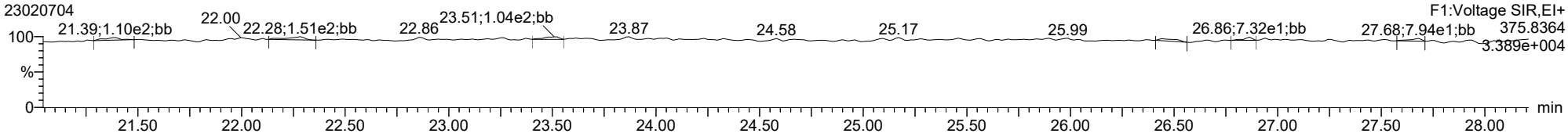

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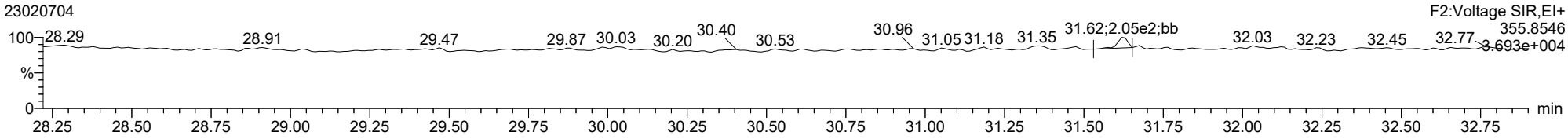
12378-PeCDD



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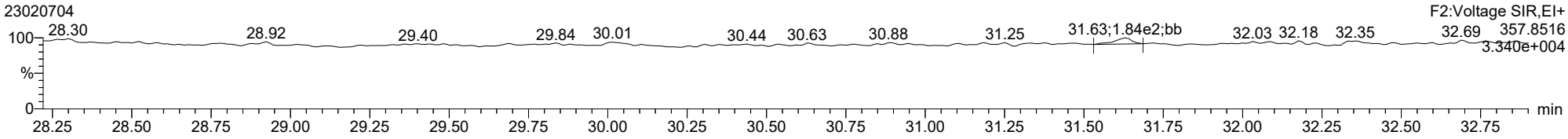

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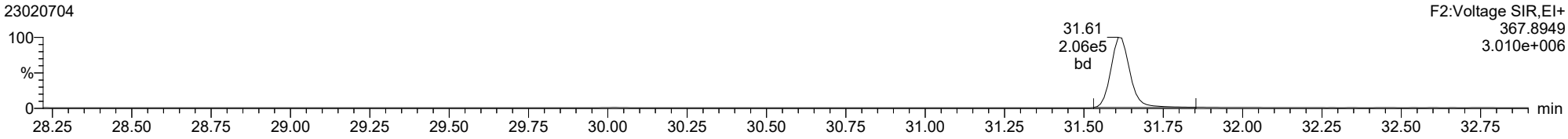

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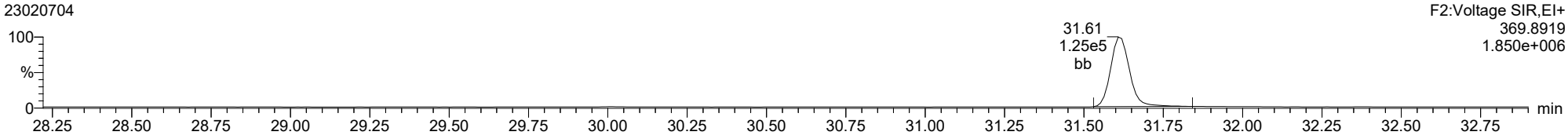

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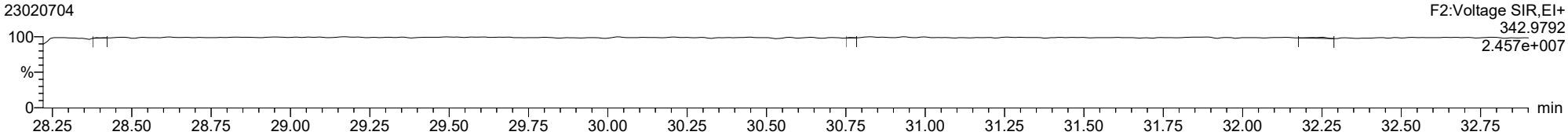

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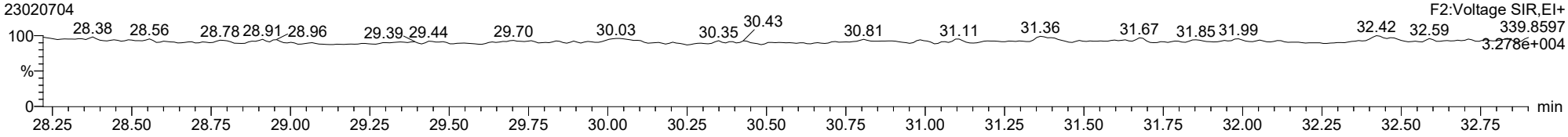

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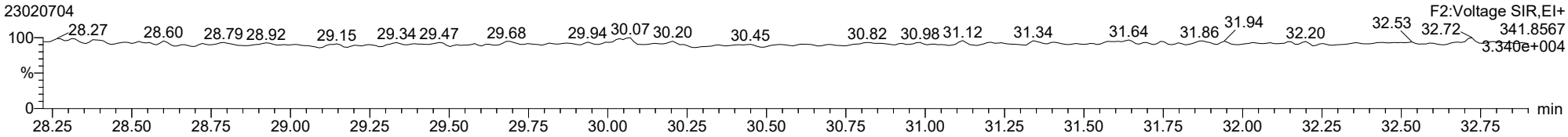

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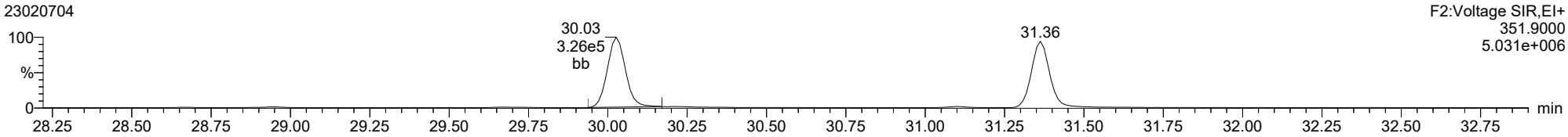

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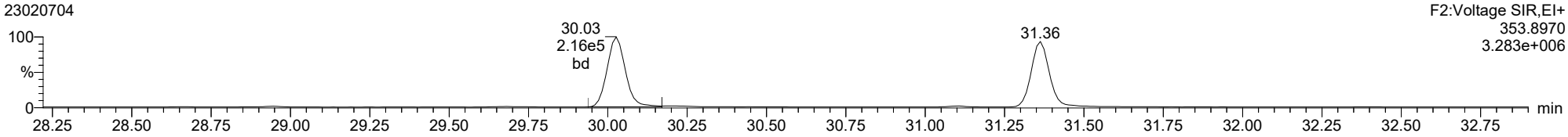

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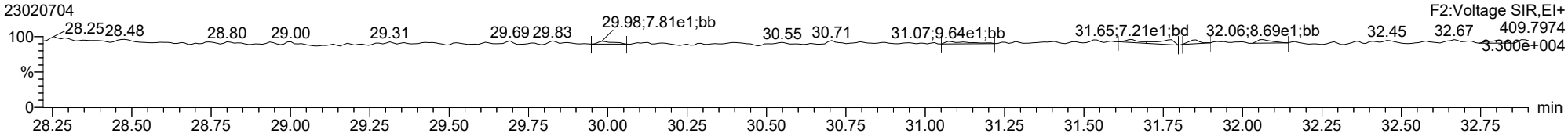

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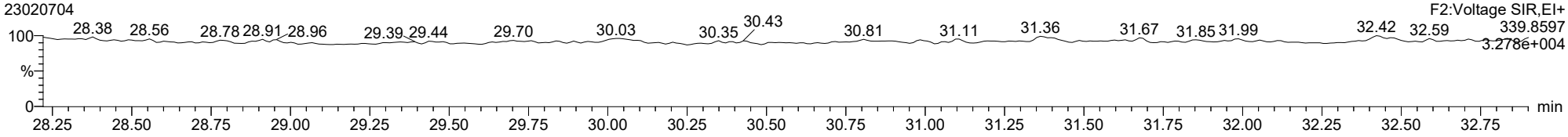

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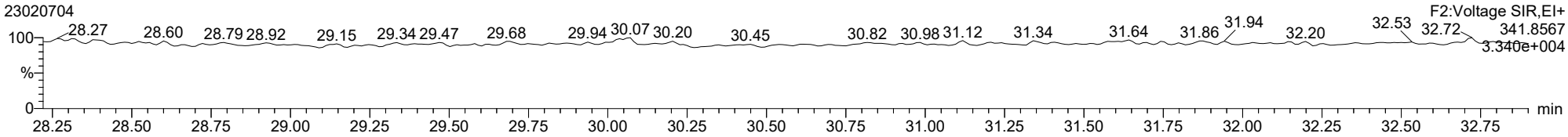

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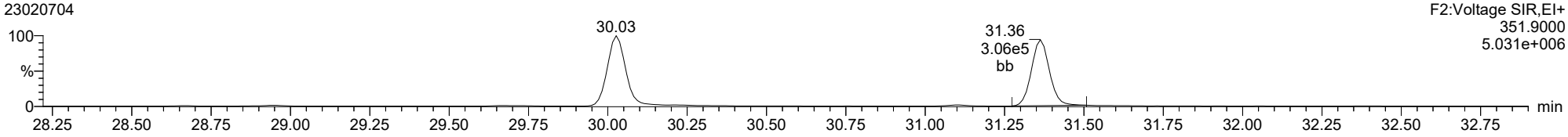

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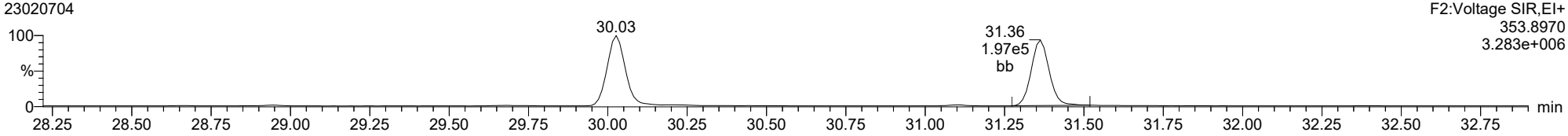

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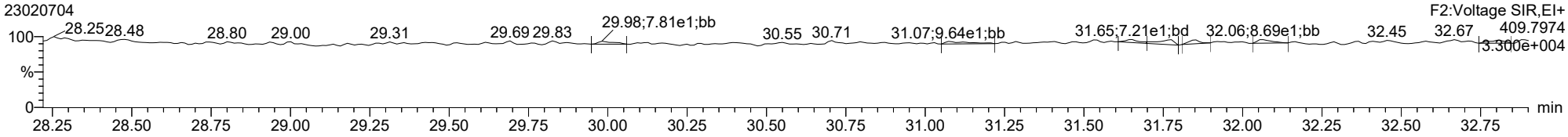

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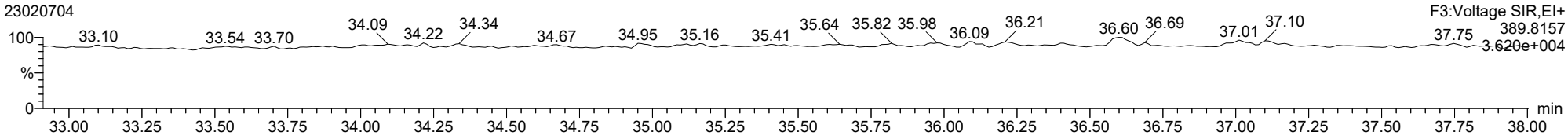

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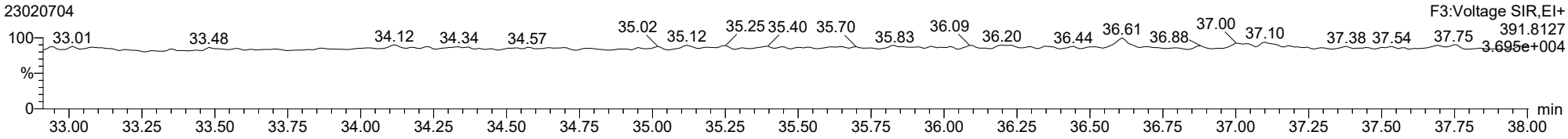

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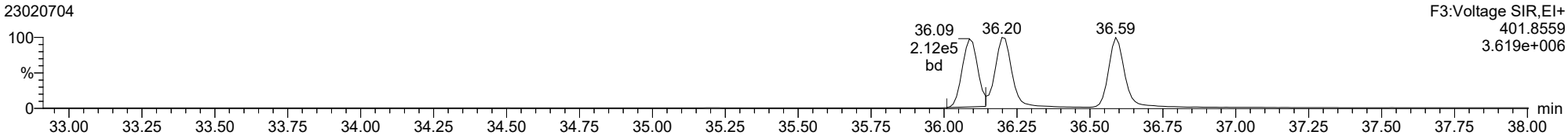

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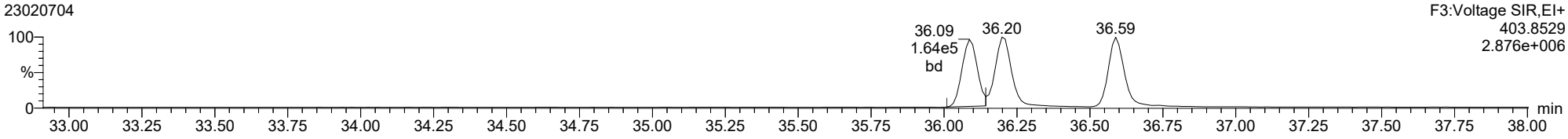

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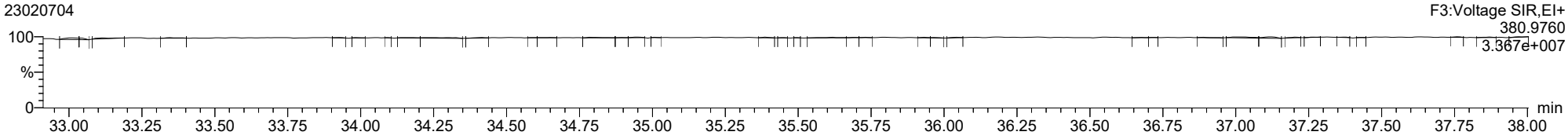

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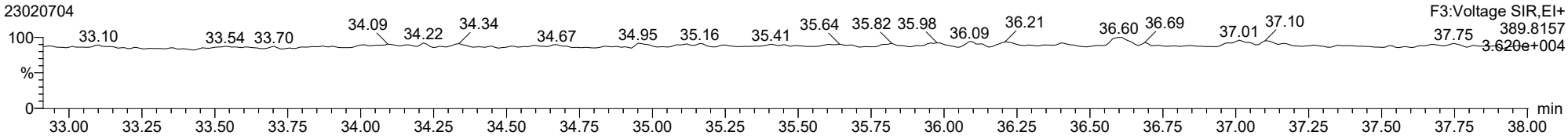

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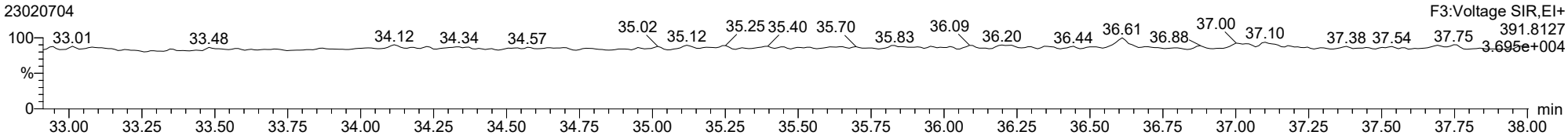

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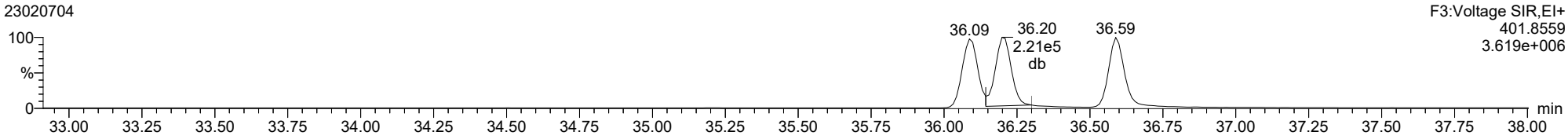

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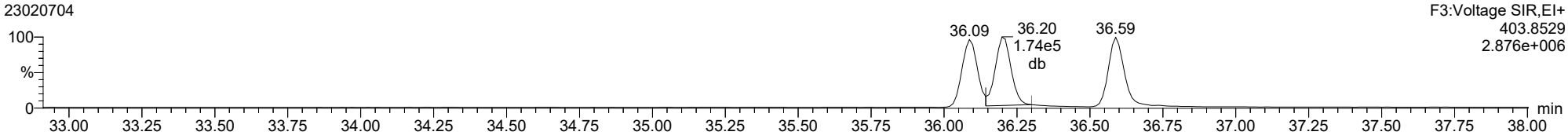

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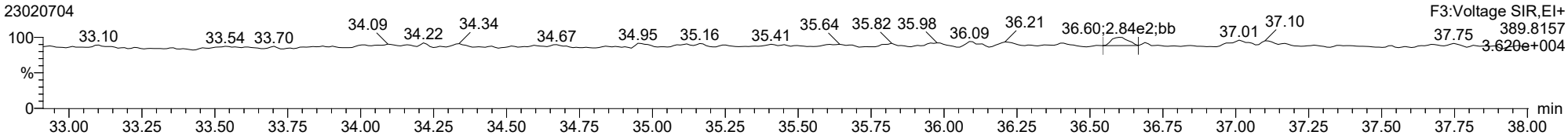

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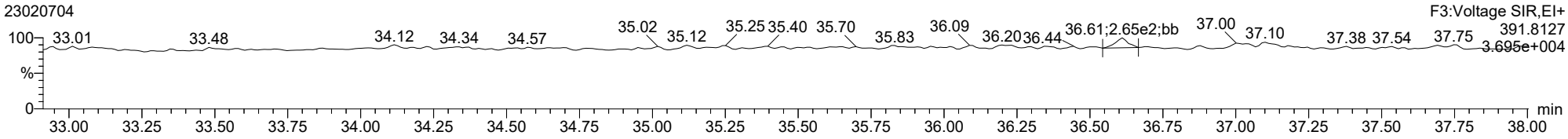

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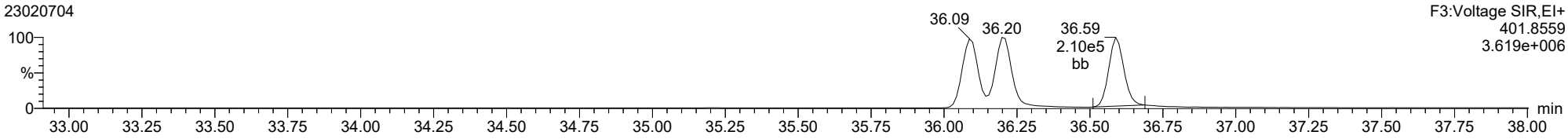

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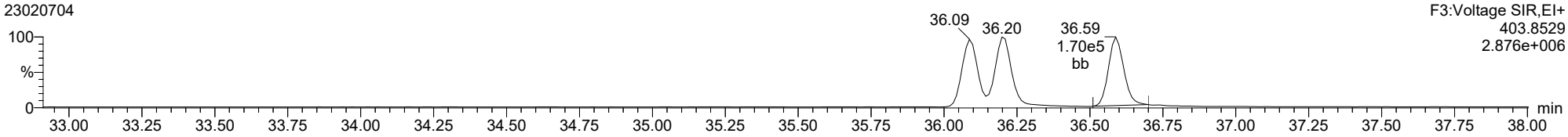

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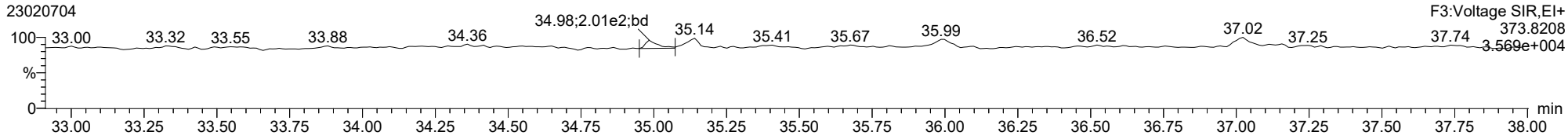

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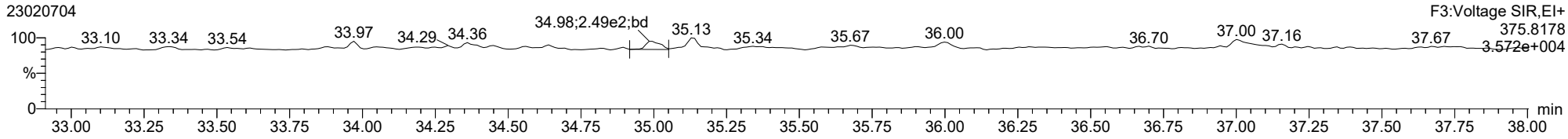

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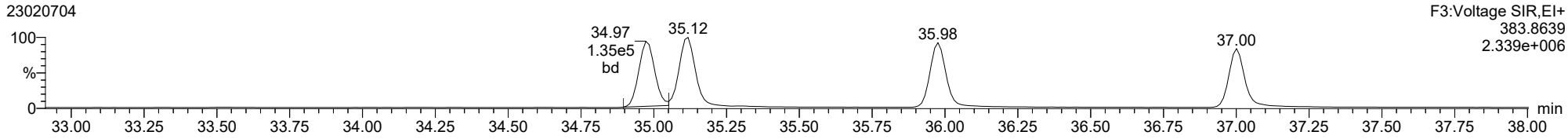

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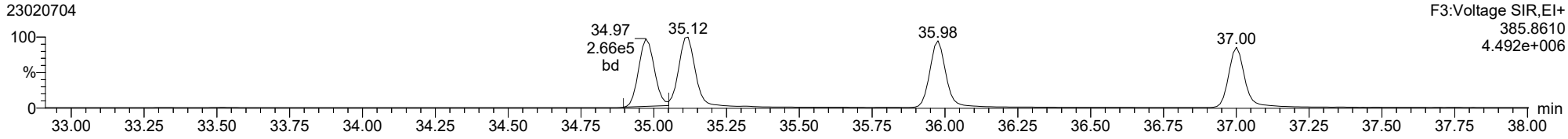
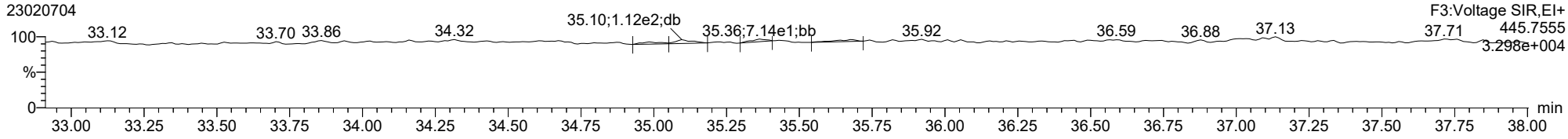


FUNCTION3 OCDPE



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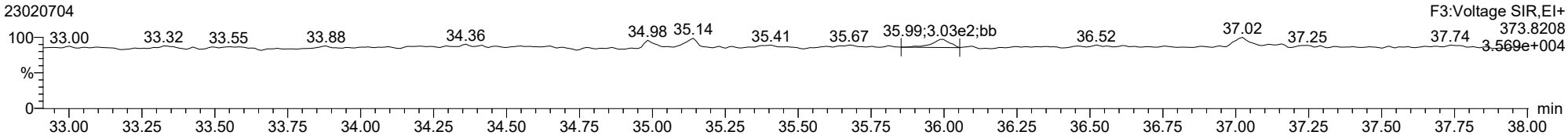
234678-HxCDF



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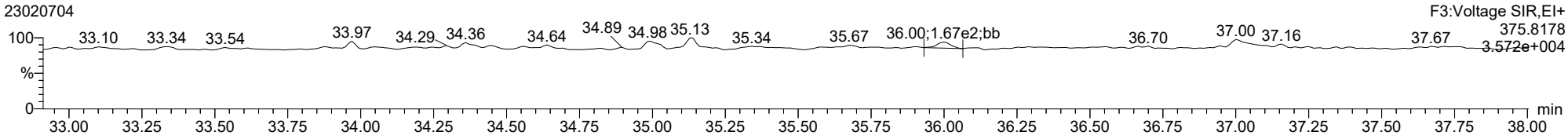

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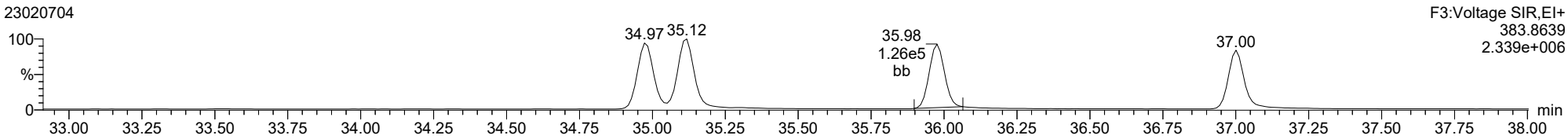

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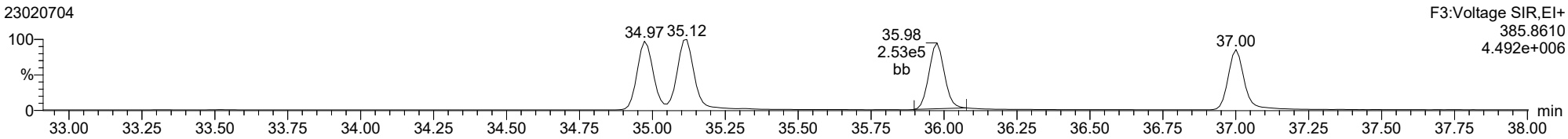

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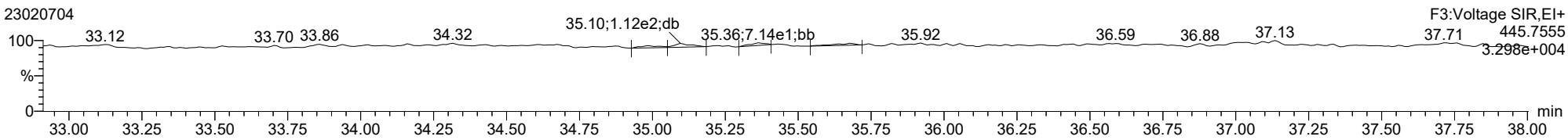

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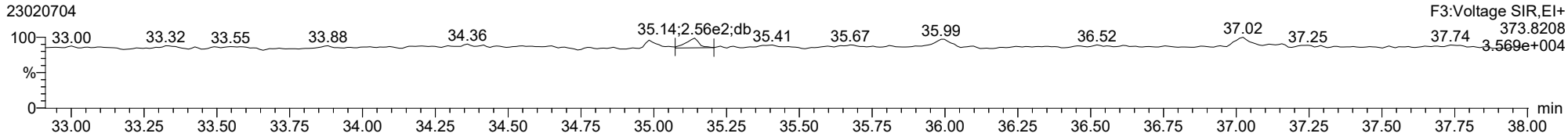

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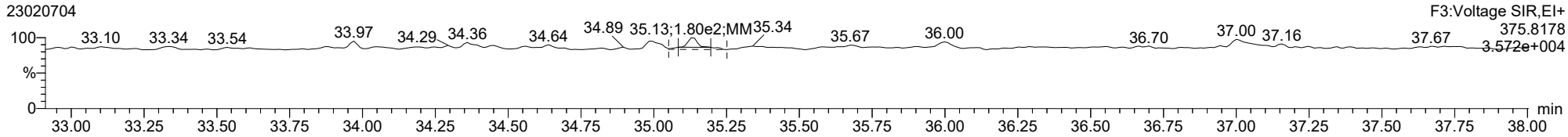

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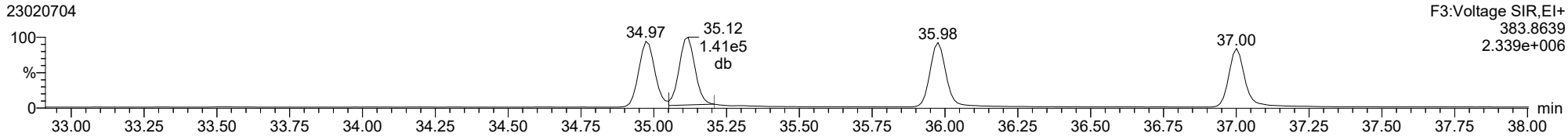

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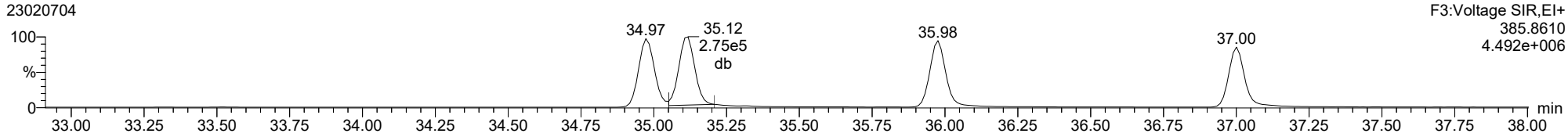

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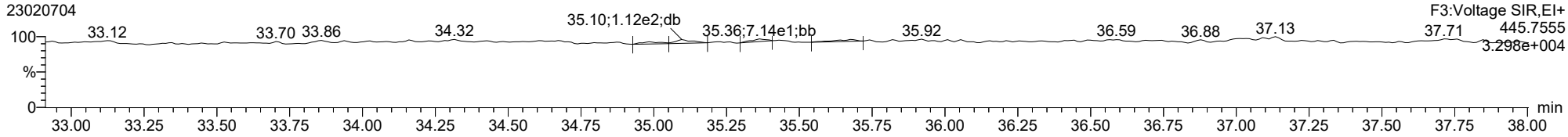

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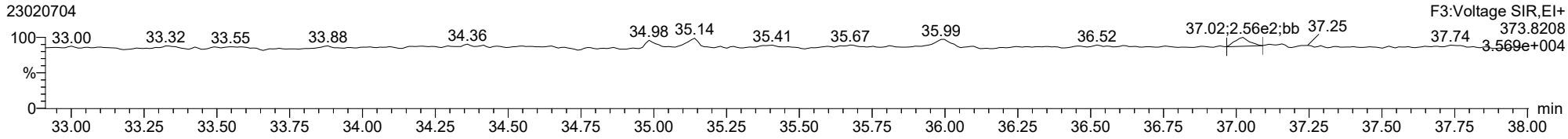

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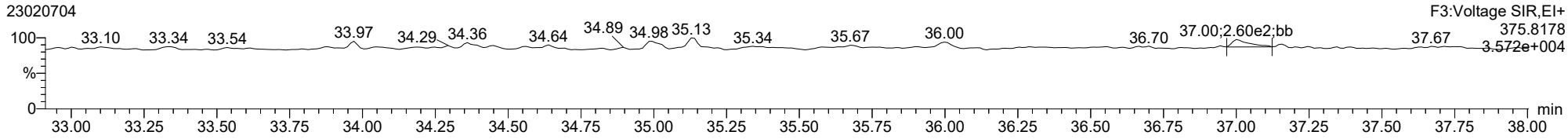

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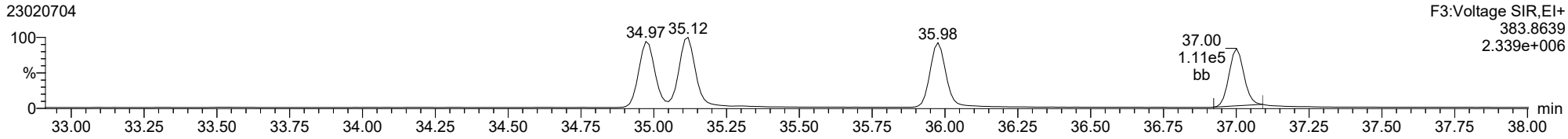

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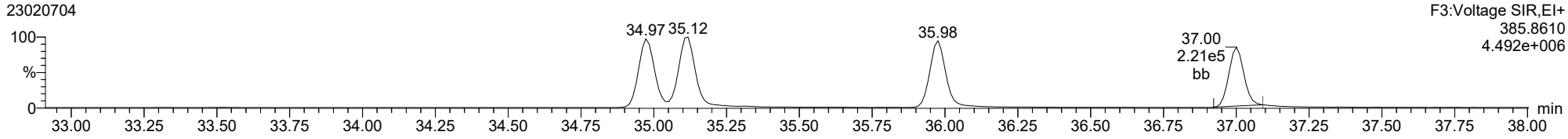

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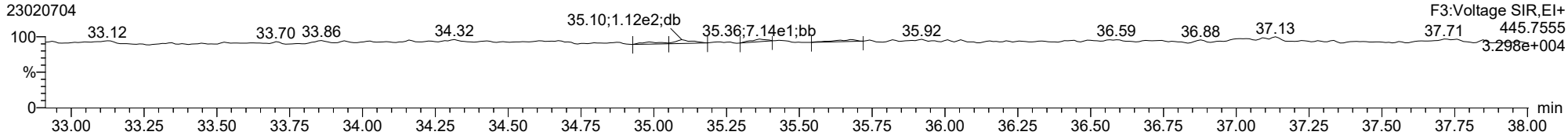

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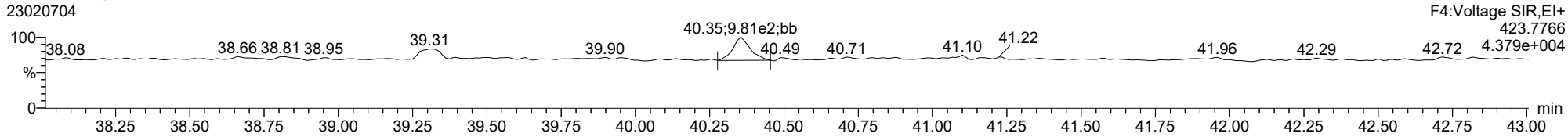

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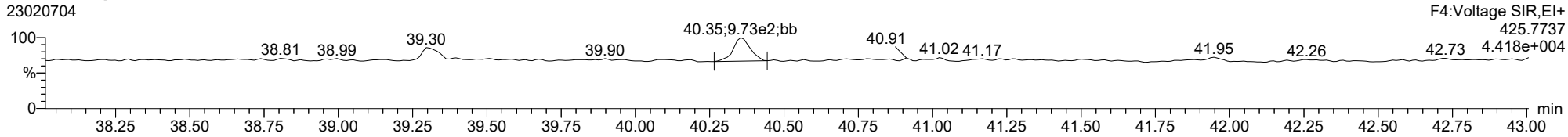

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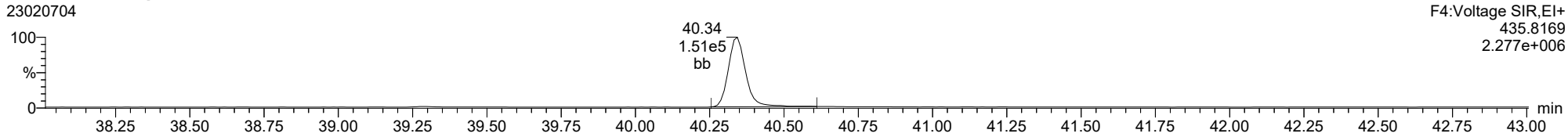

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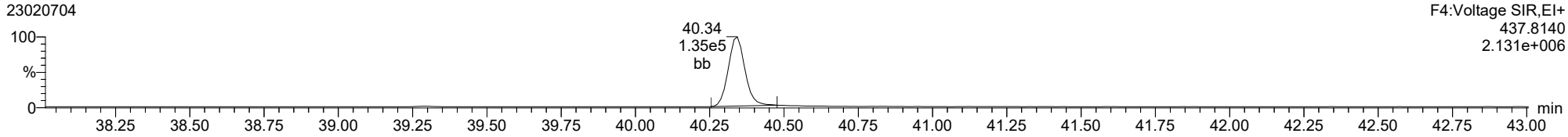

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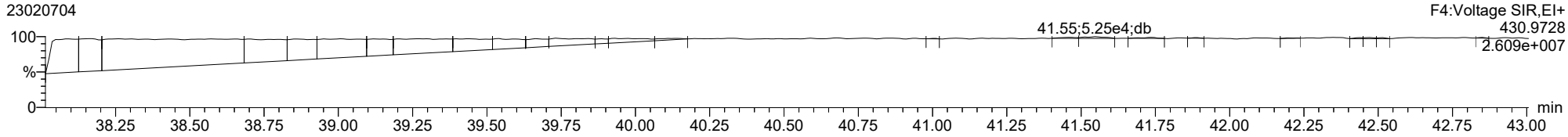

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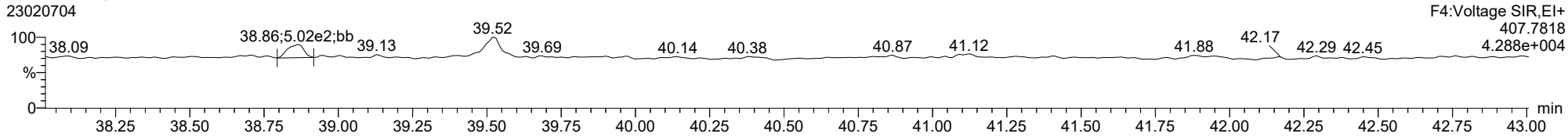

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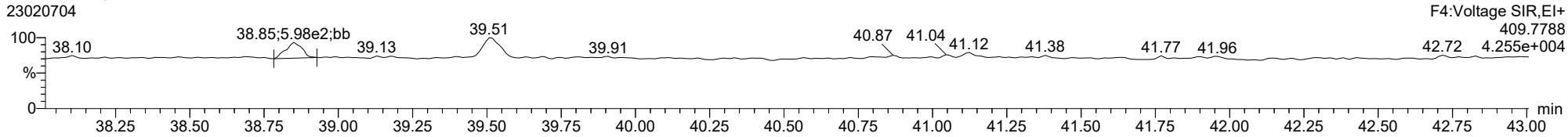

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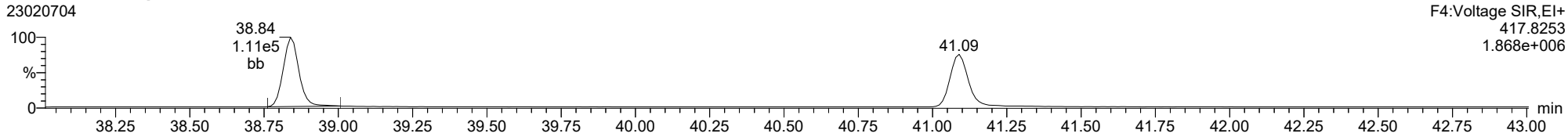

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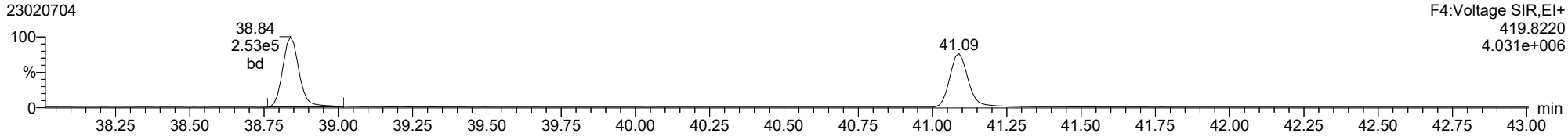

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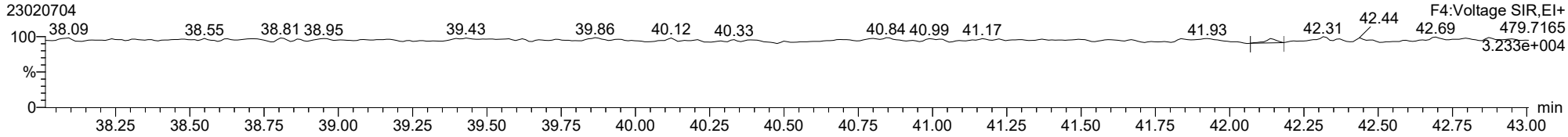

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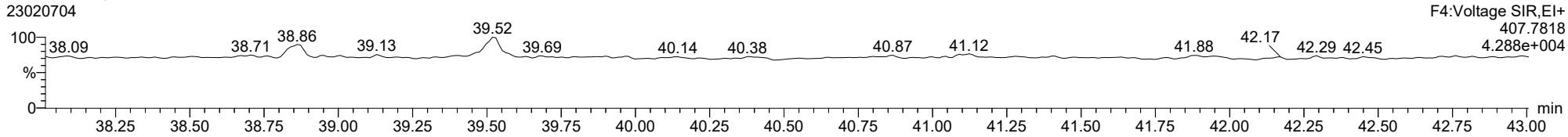

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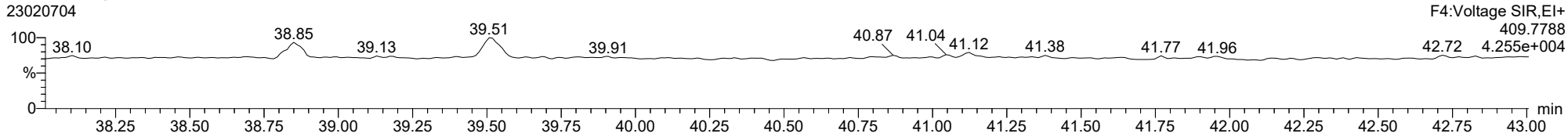

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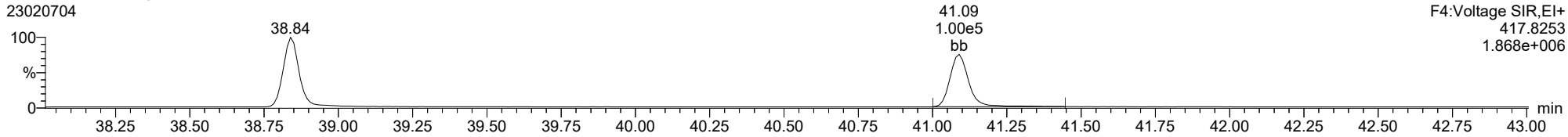

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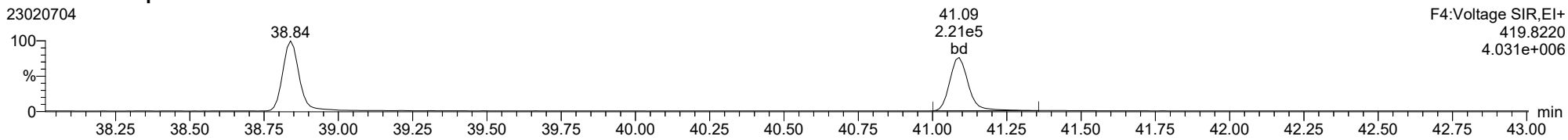

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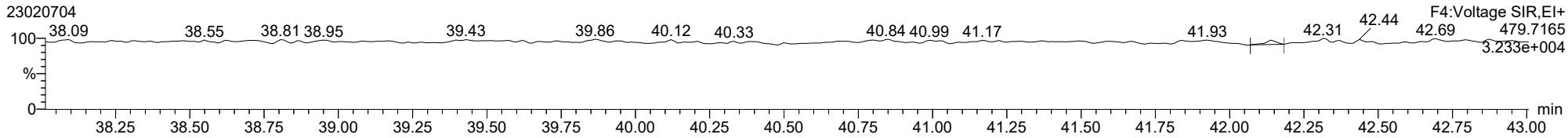

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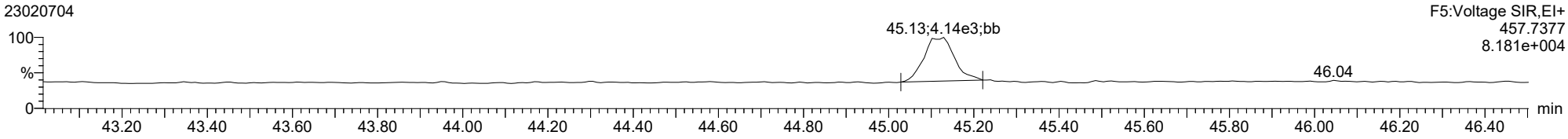

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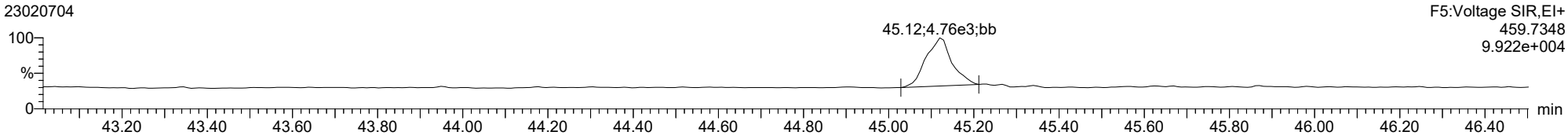

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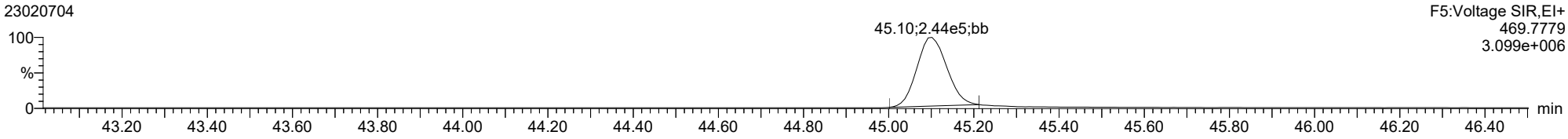

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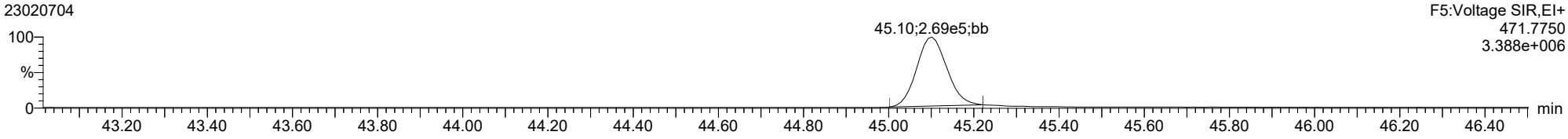

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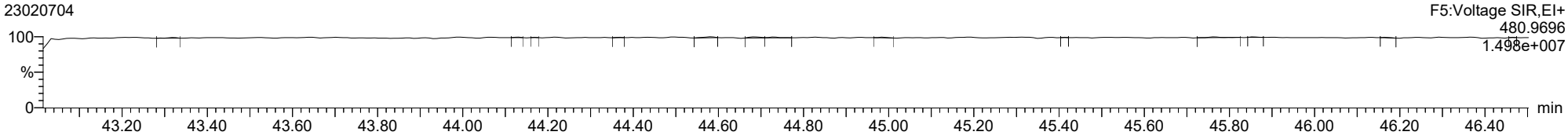

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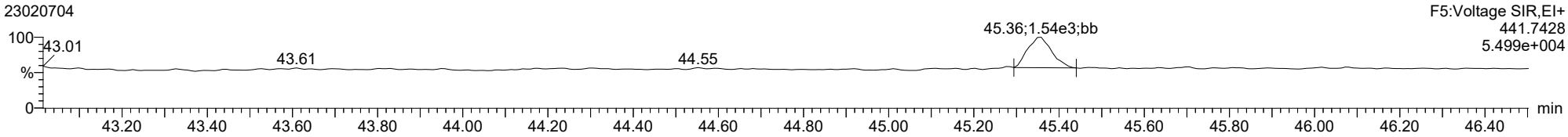

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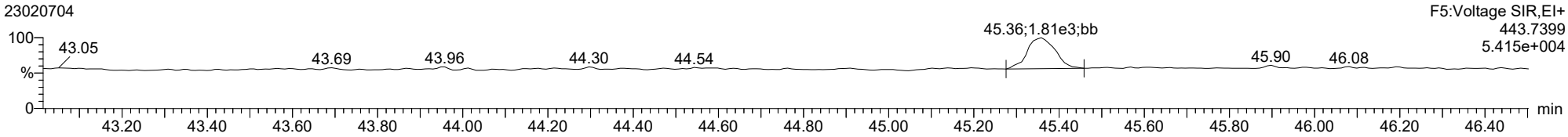

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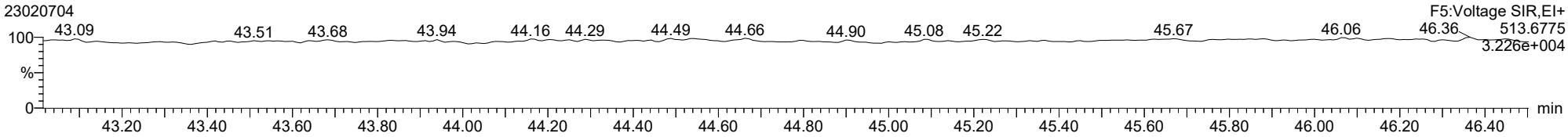

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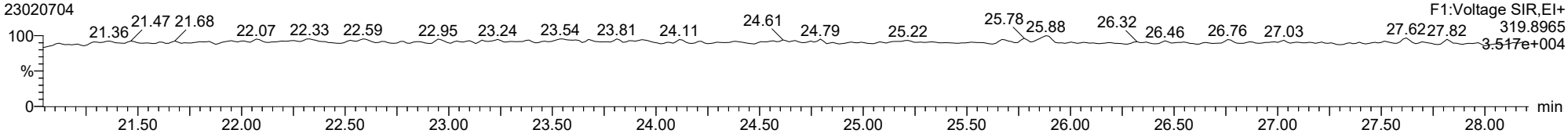
Total-tetradioxins



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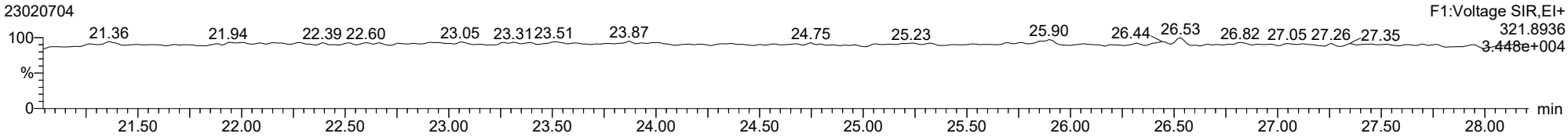

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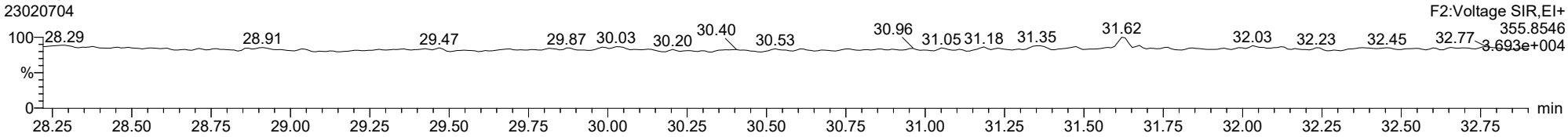

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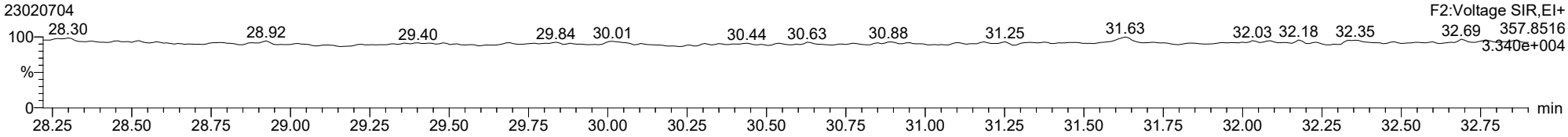

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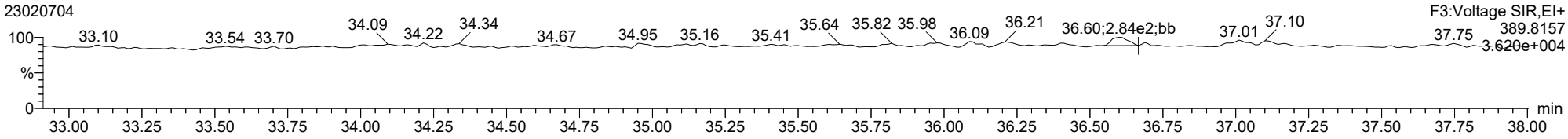
Total-hexadioxins



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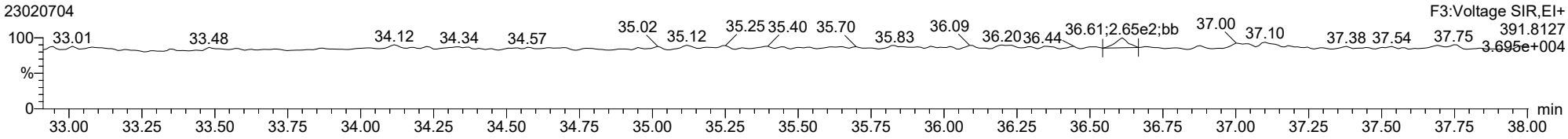
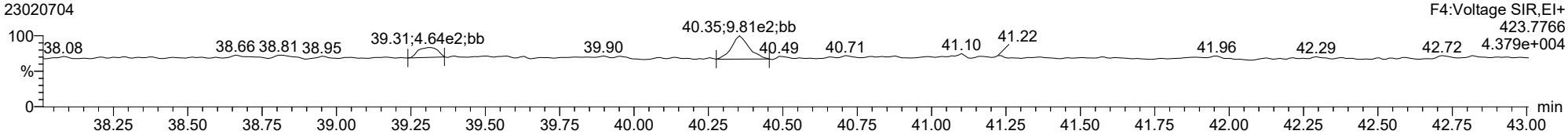


Total-heptadioxins



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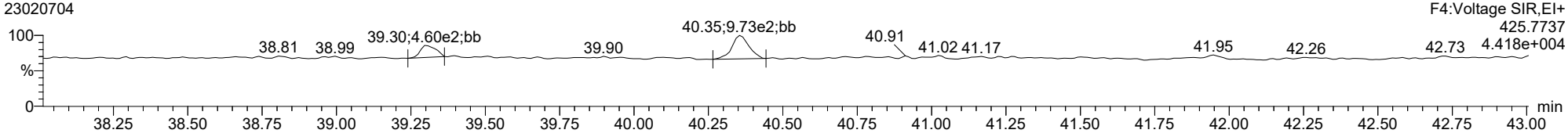

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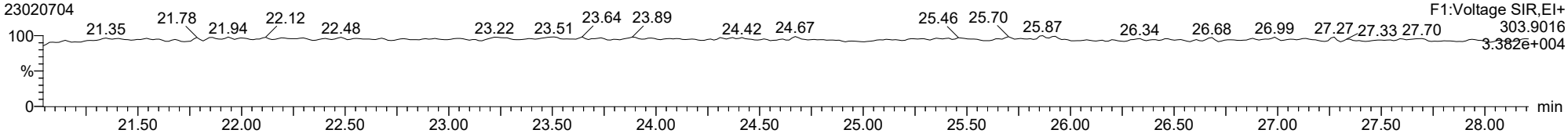
Total-tetrafurans



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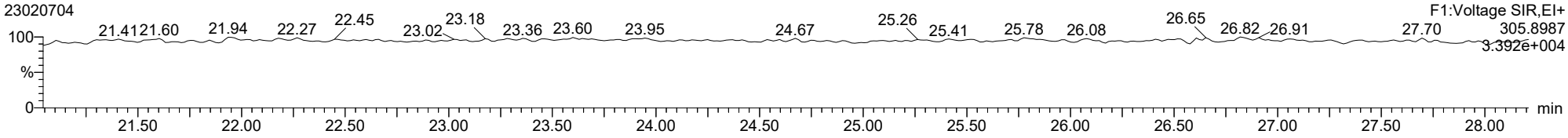
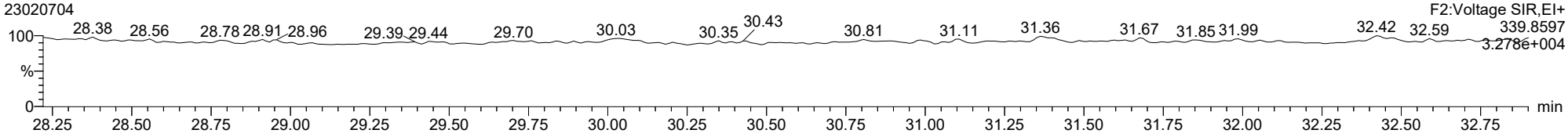
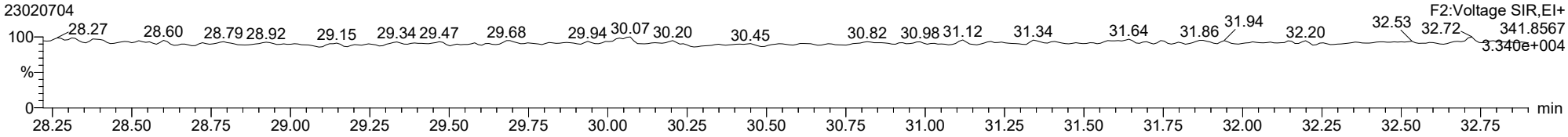


Total-pentafurans



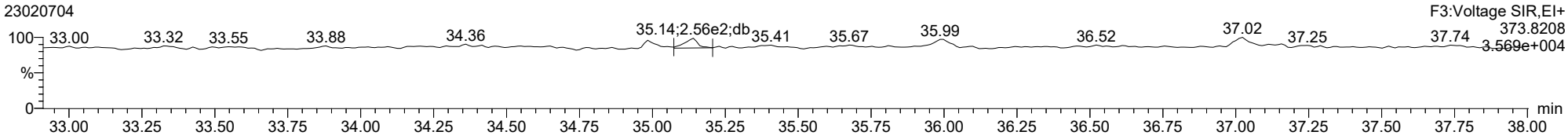
Total-pentafurans



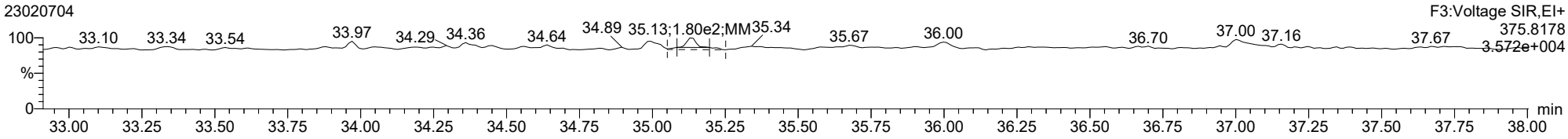
Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:28:45 Pacific Standard Time

ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

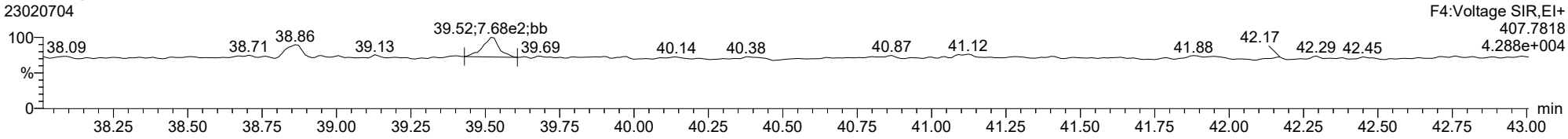
Total-hexafurans



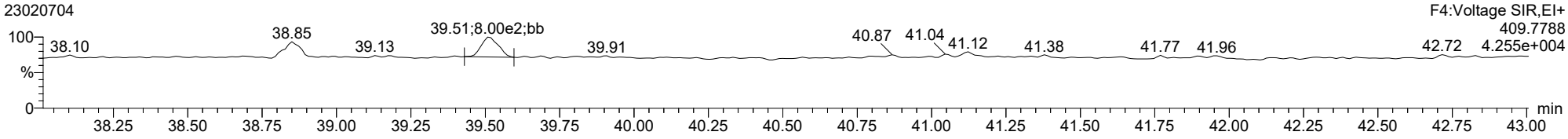
Total-hexafurans



Total-heptafurans



Total-heptafurans



LCS RECOVERY
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	02/07/23 11:58
Batch:	BLA0079	Laboratory ID:	BLA0079-BS1
Preparation:	EPA 1613	Sequence Name:	LCS
Initial/Final:	10 g / 20 uL		

COMPOUND	SPIKE ADDED (ng/kg wet)	LCS CONCENTRATION (ng/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
2,3,7,8-TCDF	20.0	19.5		97.5	75 - 158
2,3,7,8-TCDD	20.0	18.0		90.0	67 - 158
1,2,3,7,8-PeCDF	100	91.6		91.6	80 - 134
2,3,4,7,8-PeCDF	100	95.6		95.6	68 - 160
1,2,3,7,8-PeCDD	100	95.0	B	95.0	70 - 142
1,2,3,4,7,8-HxCDF	100	91.0	B	91.0	72 - 134
1,2,3,6,7,8-HxCDF	100	93.9	B	93.9	84 - 130
2,3,4,6,7,8-HxCDF	100	93.7	B	93.7	70 - 156
1,2,3,7,8,9-HxCDF	100	92.7	B	92.7	78 - 130
1,2,3,4,7,8-HxCDD	100	96.0		96.0	70 - 164
1,2,3,6,7,8-HxCDD	100	94.0		94.0	76 - 134
1,2,3,7,8,9-HxCDD	100	102	B	102	64 - 162
1,2,3,4,6,7,8-HpCDF	100	96.6	B	96.6	82 - 122
1,2,3,4,7,8,9-HpCDF	100	91.1		91.1	78 - 138
1,2,3,4,6,7,8-HpCDD	100	90.6	B	90.6	70 - 140
OCDF	200	170	B	84.8	63 - 170
OCDD	200	186	B	92.9	78 - 144

* Indicates values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:28:57 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.867	1.001	2.026e4	2.707e4	0.876	0.749	0.770	752	874	3.10e5	4.01e5	412.3	459.0	NO	bb	bb	9.746
12378-PeCDF	30.037	1.001	1.270e5	8.657e4	0.845	1.468	1.550	1105	2040	1.92e6	1.30e6	1740.1	635.4	NO	bb	bd	45.819
23478-PeCDF	31.374	1.001	1.337e5	8.848e4	0.911	1.511	1.550	1105	2040	2.02e6	1.35e6	1823.8	660.5	NO	bb	bd	47.822
123478-HxCDF	34.984	1.001	1.218e5	9.739e4	1.182	1.251	1.240	1334	1796	1.89e6	1.52e6	1419.2	847.3	NO	dd	bd	45.484
234678-HxCDF	35.976	1.000	1.251e5	9.889e4	1.229	1.265	1.240	1334	1796	1.88e6	1.52e6	1406.4	845.2	NO	dd	bd	46.826
123678-HxCDF	35.118	1.000	1.396e5	1.103e5	1.248	1.266	1.240	1334	1796	1.99e6	1.60e6	1491.8	892.5	NO	dd	dd	46.968
123789-HxCDF	37.012	1.001	1.063e5	8.480e4	1.187	1.253	1.240	1334	1796	1.55e6	1.24e6	1165.3	691.9	NO	bd	bd	46.348
1234678-HpCDF	38.839	1.000	1.118e5	1.073e5	1.204	1.043	1.050	1514	1379	1.78e6	1.70e6	1172.5	1229.3	NO	bb	bd	48.279
1234789-HpCDF	41.090	1.000	9.117e4	9.161e4	1.165	0.995	1.050	1514	1379	1.26e6	1.27e6	832.8	918.2	NO	bd	bd	45.575
OCDF	45.349	1.006	1.303e5	1.483e5	1.186	0.878	0.890	1711	1717	1.47e6	1.71e6	859.3	993.9	NO	bd	bd	84.812
2378-TCDD	26.517	1.001	1.953e4	2.508e4	1.236	0.779	0.770	941	744	2.97e5	3.86e5	315.9	518.5	NO	bb	bd	9.004
12378-PeCDD	31.619	1.000	1.048e5	6.558e4	1.087	1.598	1.550	889	846	1.58e6	1.00e6	1780.3	1183.6	NO	bb	bb	47.494
123478-HxCDD	36.098	1.001	9.715e4	8.140e4	0.987	1.194	1.240	1253	1378	1.57e6	1.32e6	1251.1	960.3	NO	bd	bd	48.011
123678-HxCDD	36.210	1.001	1.041e5	8.566e4	1.021	1.215	1.240	1253	1378	1.65e6	1.39e6	1321.1	1007.2	NO	db	db	46.986
123789-HxCDD	36.589	1.011	1.063e5	8.766e4	0.985	1.212	1.240	1253	1378	1.65e6	1.37e6	1315.3	997.2	NO	bb	bb	50.955
1234678-HpCDD	40.343	1.000	8.947e4	8.471e4	1.253	1.056	1.050	1117	965	1.35e6	1.27e6	1209.0	1316.3	NO	bd	bd	45.284
OCDD	45.111	1.000	1.356e5	1.482e5	1.103	0.915	0.890	1102	949	1.56e6	1.73e6	1411.5	1817.4	NO	bd	bb	92.932
13C-2378-TCDF	25.851	1.006	2.446e5	3.098e5	1.768	0.790	0.770	1688	1573	3.63e6	4.66e6	2149.4	2961.4	NO	bb	bb	72.767
13C-12378-PeCDF	30.015	1.169	3.347e5	2.173e5	1.527	1.541	1.550	2642	1551	4.96e6	3.18e6	1877.3	2053.6	NO	bd	bd	83.889
13C-23478-PeCDF	31.352	1.221	3.074e5	2.025e5	1.466	1.518	1.550	2642	1551	4.71e6	3.14e6	1784.7	2024.3	NO	bb	bb	80.708
13C-123478-HxCDF	34.962	0.956	1.370e5	2.708e5	1.054	0.506	0.510	1747	1785	2.19e6	4.34e6	1251.3	2428.7	NO	bd	bd	77.595
13C-123678-HxCDF	35.107	0.960	1.413e5	2.851e5	1.080	0.495	0.510	1747	1785	2.21e6	4.41e6	1265.9	2469.3	NO	db	db	79.145
13C-234678-HxCDF	35.965	0.983	1.317e5	2.575e5	1.014	0.512	0.510	1747	1785	2.14e6	4.15e6	1228.1	2322.2	NO	bb	bb	76.924
13C-123789-HxCDF	36.989	1.011	1.161e5	2.314e5	0.928	0.502	0.510	1747	1785	1.92e6	3.78e6	1099.9	2115.0	NO	bb	bb	75.062
13C-1234678-HpCDF	38.828	1.062	1.173e5	2.596e5	1.036	0.452	0.440	1380	1819	1.93e6	4.25e6	1395.7	2338.0	NO	bb	bb	72.932
13C-1234789-HpCDF	41.078	1.123	1.059e5	2.382e5	0.905	0.445	0.440	1380	1819	1.49e6	3.29e6	1082.1	1809.1	NO	bb	bb	76.248
13C-1234-TCDD	25.685	0.000	1.902e5	2.406e5	1.000	0.790	0.770	1827	969	2.93e6	3.72e6	1603.9	3844.4	NO	bb	bb	100.000
13C-2378-TCDD	26.486	1.031	1.774e5	2.233e5	1.103	0.794	0.770	1827	969	2.67e6	3.35e6	1464.4	3463.2	NO	bb	bb	84.327
13C-12378-PeCDD	31.608	1.231	2.036e5	1.266e5	0.914	1.609	1.550	1006	1036	2.87e6	1.80e6	2848.6	1736.1	NO	bd	bd	83.829
13C-123478-HxCDD	36.076	0.986	2.116e5	1.652e5	0.933	1.281	1.240	1499	1056	3.57e6	2.79e6	2378.7	2638.8	NO	bd	bd	80.974
13C-123678-HxCDD	36.187	0.989	2.214e5	1.743e5	0.965	1.270	1.240	1499	1056	3.53e6	2.77e6	2356.0	2626.2	NO	db	db	82.237
13C-1234678-HpCDD	40.332	1.103	1.620e5	1.451e5	0.782	1.116	1.050	1345	1327	2.39e6	2.22e6	1774.1	1670.2	NO	bb	bb	78.732
13C-OCDD	45.093	1.233	2.660e5	2.879e5	0.788	0.924	0.890	2831	1399	3.25e6	3.47e6	1146.3	2476.9	NO	bb	bb	140.870
13C-123789-HxCDD	36.577	0.000	2.784e5	2.204e5	1.000	1.263	1.240	1499	1056	4.44e6	3.56e6	2965.3	3376.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.517	1.032	1.554e5		1.233			1033		2.36e6		2284.3			bb		29.242

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:28:57 Pacific Standard Time

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	752	874								
1289-TCDF					0.858		0.770	752	874								
13468-PECDF					1.013		1.550	687	781								
12389-PECDF	32.410	1.080	1.061e3	7.981e2	0.844	1.330	1.550	1105	2040	1.65e4	1.26e4	14.9	6.2	NO	bb	bb	0.399
123468-HXCDF					1.197		1.240	1334	1796								
1368-TCDD					1.084		0.770	941	744								
1289-TCDD					0.975		0.770	941	744								
12479-PECDD					1.837		1.550	889	846								
12389-PECDD	31.942	1.011	9.555e1	7.549e1	1.252	1.266	1.550	889	846	2.43e3	2.44e3	2.7	2.9	YES	bb	bb	0.041
124679-HXCDD					1.033		1.240	1253	1378								
1234679-HPCDD	39.296	0.974	7.884e2	9.230e2	1.286	0.854	1.050	1117	965	1.39e4	1.46e4	12.5	15.1	YES	bb	bb	0.433
Total-tetrafurans			2.026e4		0.933			752		3.10e5							9.746
Total-penta1			0.000e0					687		0.00e0							
Total-pentafurans			2.618e5		0.866			1105		3.95e6							94.041
Total-hexafurans			4.927e5		1.208			1334		7.31e6							185.626
Total-heptafurans			2.030e5		1.185			1514		3.04e6							93.854
Total-Furans			1.108e6		1.067			752		1.61e7							468.079
Total-tetradioxins			1.995e4		1.099			941		3.04e5							9.231
Total-pentadioxins			1.048e5		1.392			889		1.58e6							47.494
Total-hexadioxins			3.075e5		1.007			1253		4.87e6							145.952
Total-heptadioxins			8.947e4		1.269			1117		1.35e6							45.284
Total-Dioxins			6.574e5		1.165			941		9.66e6							340.893
Total-TEQ			1.766e6					941		2.57e7							808.973
FUNCTION1 PFK			4.910e4					267757		1.55e6							
FUNCTION2 PFK			1.180e5					185937		3.75e6							0.000
FUNCTION3 PFK			2.556e3					191562		2.29e5							0.000
FUNCTION4 PFK			1.002e5					199226		3.27e6							
FUNCTION5 PFK			0.000e0					109767		0.00e0							
FUNCTION1 HXCD...			5.384e2					528		8.82e3							0.000
FUNCTION1 HPCD...			7.446e2					860		1.28e4							0.000
FUNCTION2 HPCD...			3.333e2					790		6.70e3							0.000
FUNCTION3 OCDPE			1.764e2					697		3.77e3							0.000
FUNCTION4 NCDPE			3.656e2					739		9.43e3							0.000
FUNCTION5 DCDPE			0.000e0					631		0.00e0							

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.87	2.026e4	2.707e4	0.876	0.75	0.77	412.3	YES	NO	bb	bb	9.746

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.41	1.061e3	7.981e2	0.844	1.33	1.55	14.9	YES	NO	bb	bb	0.399
2	23478-PeCDF	31.37	1.337e5	8.848e4	0.911	1.51	1.55	1823.8	YES	NO	bb	bd	47.822
3	12378-PeCDF	30.04	1.270e5	8.657e4	0.845	1.47	1.55	1740.1	YES	NO	bb	bd	45.819

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.12	1.396e5	1.103e5	1.248	1.27	1.24	1491.8	YES	NO	dd	dd	46.968
2	123478-HxCDF	34.98	1.218e5	9.739e4	1.182	1.25	1.24	1419.2	YES	NO	dd	bd	45.484
3	123789-HxCDF	37.01	1.063e5	8.480e4	1.187	1.25	1.24	1165.3	YES	NO	bd	bd	46.348
4	234678-HxCDF	35.98	1.251e5	9.889e4	1.229	1.26	1.24	1406.4	YES	NO	dd	bd	46.826

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.09	9.117e4	9.161e4	1.165	1.00	1.05	832.8	YES	NO	bd	bd	45.575
2	1234678-HpCDF	38.84	1.118e5	1.073e5	1.204	1.04	1.05	1172.5	YES	NO	bb	bd	48.279

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.87	2.026e4	2.707e4	0.876	0.75	0.77	412.3	YES	NO	bb	bb	9.746
2	12389-PECDF	32.41	1.061e3	7.981e2	0.844	1.33	1.55	14.9	YES	NO	bb	bb	0.399
3	23478-PeCDF	31.37	1.337e5	8.848e4	0.911	1.51	1.55	1823.8	YES	NO	bb	bd	47.822
4	12378-PeCDF	30.04	1.270e5	8.657e4	0.845	1.47	1.55	1740.1	YES	NO	bb	bd	45.819
5	123678-HxCDF	35.12	1.396e5	1.103e5	1.248	1.27	1.24	1491.8	YES	NO	dd	dd	46.968
6	123478-HxCDF	34.98	1.218e5	9.739e4	1.182	1.25	1.24	1419.2	YES	NO	dd	bd	45.484
7	123789-HxCDF	37.01	1.063e5	8.480e4	1.187	1.25	1.24	1165.3	YES	NO	bd	bd	46.348
8	234678-HxCDF	35.98	1.251e5	9.889e4	1.229	1.26	1.24	1406.4	YES	NO	dd	bd	46.826
9	1234789-HpCDF	41.09	9.117e4	9.161e4	1.165	1.00	1.05	832.8	YES	NO	bd	bd	45.575
10	1234678-HpCDF	38.84	1.118e5	1.073e5	1.204	1.04	1.05	1172.5	YES	NO	bb	bd	48.279
11	OCDF	45.35	1.303e5	1.483e5	1.186	0.88	0.89	859.3	YES	NO	bd	bd	84.812

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.52	1.953e4	2.508e4	1.236	0.78	0.77	315.9	YES	NO	bb	bd	9.004
2	Total-tetradioxins	26.14	4.236e2	5.769e2	1.099	0.73	0.77	6.7	YES	NO	bb	dd	0.227

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.62	1.048e5	6.558e4	1.087	1.60	1.55	1780.3	YES	NO	bb	bb	47.494

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.59	1.063e5	8.766e4	0.985	1.21	1.24	1315.3	YES	NO	bb	bb	50.955
2	123678-HxCDD	36.21	1.041e5	8.566e4	1.021	1.22	1.24	1321.1	YES	NO	db	db	46.986
3	123478-HxCDD	36.10	9.715e4	8.140e4	0.987	1.19	1.24	1251.1	YES	NO	bd	bd	48.011

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.34	8.947e4	8.471e4	1.253	1.06	1.05	1209.0	YES	NO	bd	bd	45.284

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.52	1.953e4	2.508e4	1.236	0.78	0.77	315.9	YES	NO	bb	bd	9.004
2	Total-tetradioxins	26.14	4.236e2	5.769e2	1.099	0.73	0.77	6.7	YES	NO	bb	dd	0.227
3	12378-PeCDD	31.62	1.048e5	6.558e4	1.087	1.60	1.55	1780.3	YES	NO	bb	bb	47.494
4	123789-HxCDD	36.59	1.063e5	8.766e4	0.985	1.21	1.24	1315.3	YES	NO	bb	bb	50.955
5	123678-HxCDD	36.21	1.041e5	8.566e4	1.021	1.22	1.24	1321.1	YES	NO	db	db	46.986
6	123478-HxCDD	36.10	9.715e4	8.140e4	0.987	1.19	1.24	1251.1	YES	NO	bd	bd	48.011
7	1234678-HpCDD	40.34	8.947e4	8.471e4	1.253	1.06	1.05	1209.0	YES	NO	bd	bd	45.284
8	OCDD	45.11	1.356e5	1.482e5	1.103	0.92	0.89	1411.5	YES	NO	bd	bb	92.932

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.87	2.026e4	2.707e4	0.876	0.75	0.77	412.3	YES	NO	bb	bb	9.746
2	12389-PECDF	32.41	1.061e3	7.981e2	0.844	1.33	1.55	14.9	YES	NO	bb	bb	0.399
3	23478-PeCDF	31.37	1.337e5	8.848e4	0.911	1.51	1.55	1823.8	YES	NO	bb	bd	47.822
4	12378-PeCDF	30.04	1.270e5	8.657e4	0.845	1.47	1.55	1740.1	YES	NO	bb	bd	45.819
5	123678-HxCDF	35.12	1.396e5	1.103e5	1.248	1.27	1.24	1491.8	YES	NO	dd	dd	46.968
6	123478-HxCDF	34.98	1.218e5	9.739e4	1.182	1.25	1.24	1419.2	YES	NO	dd	bd	45.484
7	123789-HxCDF	37.01	1.063e5	8.480e4	1.187	1.25	1.24	1165.3	YES	NO	bd	bd	46.348
8	234678-HxCDF	35.98	1.251e5	9.889e4	1.229	1.26	1.24	1406.4	YES	NO	dd	bd	46.826
9	1234789-HpCDF	41.09	9.117e4	9.161e4	1.165	1.00	1.05	832.8	YES	NO	bd	bd	45.575
10	1234678-HpCDF	38.84	1.118e5	1.073e5	1.204	1.04	1.05	1172.5	YES	NO	bb	bd	48.279
11	OCDF	45.35	1.303e5	1.483e5	1.186	0.88	0.89	859.3	YES	NO	bd	bd	84.812
12	2378-TCDD	26.52	1.953e4	2.508e4	1.236	0.78	0.77	315.9	YES	NO	bb	bd	9.004
13	Total-tetradioxins	26.14	4.236e2	5.769e2	1.099	0.73	0.77	6.7	YES	NO	bb	dd	0.227
14	12378-PeCDD	31.62	1.048e5	6.558e4	1.087	1.60	1.55	1780.3	YES	NO	bb	bb	47.494
15	123789-HxCDD	36.59	1.063e5	8.766e4	0.985	1.21	1.24	1315.3	YES	NO	bb	bb	50.955
16	123678-HxCDD	36.21	1.041e5	8.566e4	1.021	1.22	1.24	1321.1	YES	NO	db	db	46.986
17	123478-HxCDD	36.10	9.715e4	8.140e4	0.987	1.19	1.24	1251.1	YES	NO	bd	bd	48.011
18	1234678-HpCDD	40.34	8.947e4	8.471e4	1.253	1.06	1.05	1209.0	YES	NO	bd	bd	45.284
19	OCDD	45.11	1.356e5	1.482e5	1.103	0.92	0.89	1411.5	YES	NO	bd	bb	92.932

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.15	2.964e4					3.6	YES		bb		
2	FUNCTION1 PFK	22.83	1.946e4					2.3	NO		bb		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	31.39	1.263e4					2.4	NO		db		0.000
2	FUNCTION2 PFK	31.34	8.868e3					1.5	NO		bd		0.000
3	FUNCTION2 PFK	31.10	4.848e3					1.2	NO		bb		0.000
4	FUNCTION2 PFK	30.81	4.251e3					0.9	NO		bb		0.000
5	FUNCTION2 PFK	30.30	6.467e3					1.0	NO		bb		0.000
6	FUNCTION2 PFK	30.00	5.602e3					1.2	NO		bb		0.000
7	FUNCTION2 PFK	29.95	9.789e2					0.5	NO		bb		0.000
8	FUNCTION2 PFK	29.80	5.310e3					1.2	NO		bb		0.000
9	FUNCTION2 PFK	29.14	1.483e3					0.7	NO		bb		0.000
10	FUNCTION2 PFK	28.90	1.492e4					2.3	NO		bb		0.000
11	FUNCTION2 PFK	28.78	5.701e3					1.3	NO		bb		0.000
12	FUNCTION2 PFK	28.44	2.910e4					2.2	NO		bb		0.000
13	FUNCTION2 PFK	28.34	1.128e4					1.9	NO		db		0.000
14	FUNCTION2 PFK	28.31	5.266e3					1.3	NO		bd		0.000
15	FUNCTION2 PFK	32.74	1.265e3					0.6	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.00	2.556e3					1.2	NO		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	42.29	6.912e3					1.3	NO		bd		
2	FUNCTION4 PFK	42.21	4.197e3					0.5	NO		bb		
3	FUNCTION4 PFK	42.14	2.767e3					0.7	NO		bb		
4	FUNCTION4 PFK	41.64	7.920e3					1.3	NO		bb		
5	FUNCTION4 PFK	41.49	2.427e3					0.7	NO		bb		
6	FUNCTION4 PFK	40.86	5.179e3					1.1	NO		bb		
7	FUNCTION4 PFK	39.93	6.547e3					1.1	NO		bb		
8	FUNCTION4 PFK	39.80	9.263e3					1.3	NO		bb		
9	FUNCTION4 PFK	39.72	6.619e3					1.1	NO		bb		
10	FUNCTION4 PFK	39.55	1.043e3					0.5	NO		bb		
11	FUNCTION4 PFK	38.32	1.083e4					1.7	NO		db		
12	FUNCTION4 PFK	38.26	2.125e4					2.3	NO		bd		
13	FUNCTION4 PFK	42.85	3.673e3					0.8	NO		bb		
14	FUNCTION4 PFK	42.69	3.344e3					0.8	NO		bb		
15	FUNCTION4 PFK	42.34	8.240e3					1.4	NO		db		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	28.07	7.326e1					2.2	NO		bb		0.000
2	FUNCTION1 HXCD...	27.62	8.351e1					4.1	YES		bb		0.000
3	FUNCTION1 HXCD...	27.38	1.014e2					2.9	NO		bb		0.000
4	FUNCTION1 HXCD...	24.84	9.136e1					2.3	NO		bb		0.000
5	FUNCTION1 HXCD...	23.02	7.236e1					2.5	NO		db		0.000
6	FUNCTION1 HXCD...	22.92	1.165e2					2.7	NO		bd		0.000

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ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	25.76	1.095e2					2.2	NO		dd		0.000
2	FUNCTION1 HPCD...	25.70	8.104e1					2.2	NO		bd		0.000
3	FUNCTION1 HPCD...	25.43	7.475e1					1.5	NO		bb		0.000
4	FUNCTION1 HPCD...	22.15	9.245e1					1.1	NO		bb		0.000
5	FUNCTION1 HPCD...	27.61	1.531e2					2.0	NO		db		0.000
6	FUNCTION1 HPCD...	27.51	9.292e1					1.9	NO		bd		0.000
7	FUNCTION1 HPCD...	26.17	7.073e1					2.4	NO		bb		0.000
8	FUNCTION1 HPCD...	25.85	7.009e1					1.5	NO		db		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.64	1.107e2					2.1	NO		bb		0.000
2	FUNCTION2 HPCD...	28.92	1.513e2					4.7	YES		bb		0.000
3	FUNCTION2 HPCD...	28.25	7.129e1					1.6	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.81	7.436e1					2.3	NO		bb		0.000
2	FUNCTION3 OCDPE	33.19	1.021e2					3.1	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.00	7.117e1					2.1	NO		db		0.000
2	FUNCTION4 NCDPE	40.88	7.719e1					2.0	NO		dd		0.000
3	FUNCTION4 NCDPE	40.84	7.460e1					2.0	NO		bd		0.000
4	FUNCTION4 NCDPE	38.46	7.172e1					3.8	YES		bb		0.000
5	FUNCTION4 NCDPE	41.33	7.089e1					2.9	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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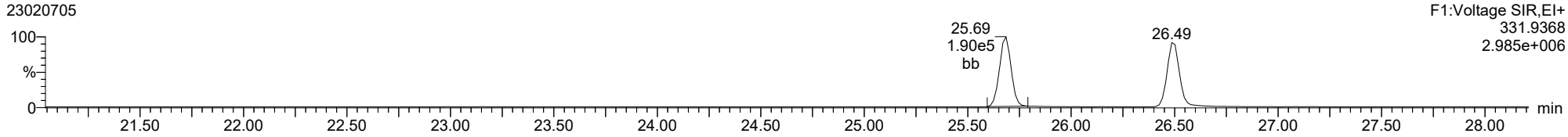

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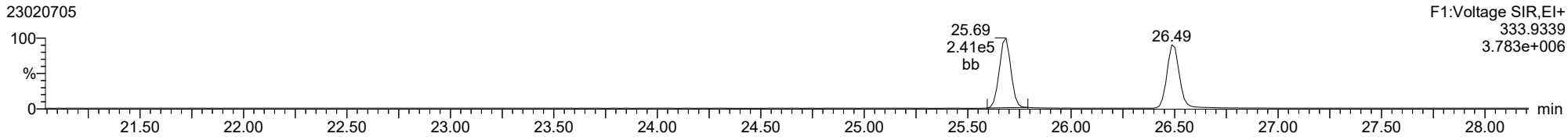

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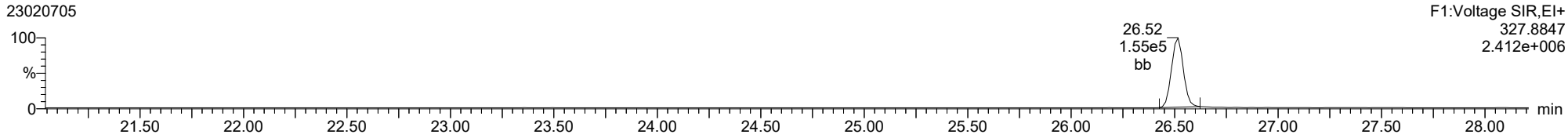

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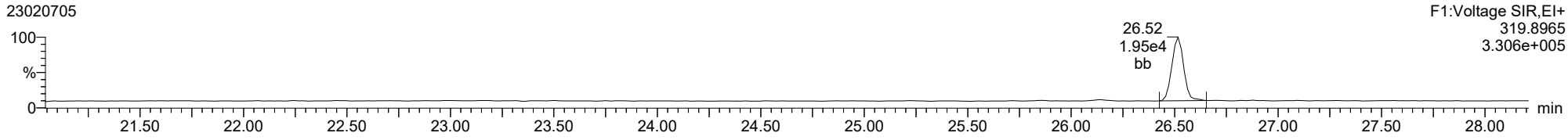

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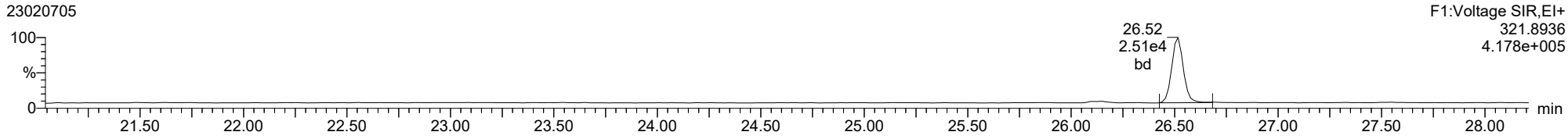

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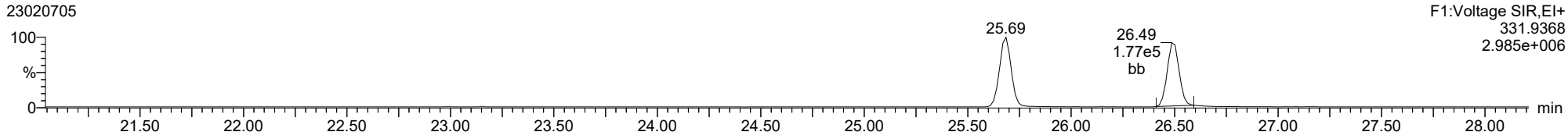

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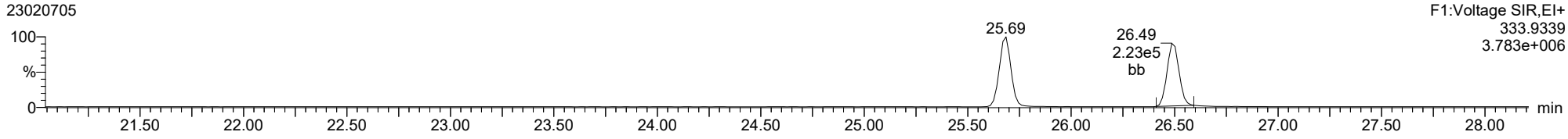

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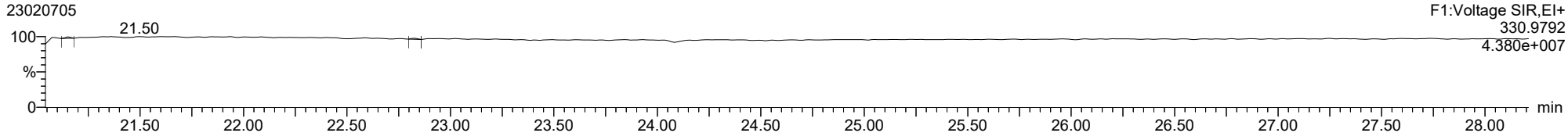

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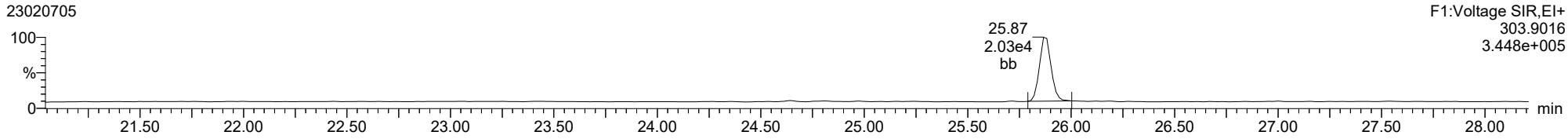

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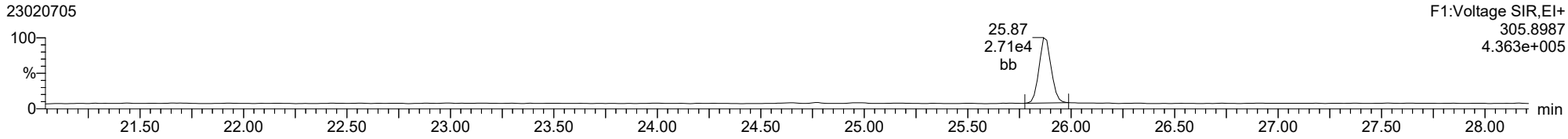

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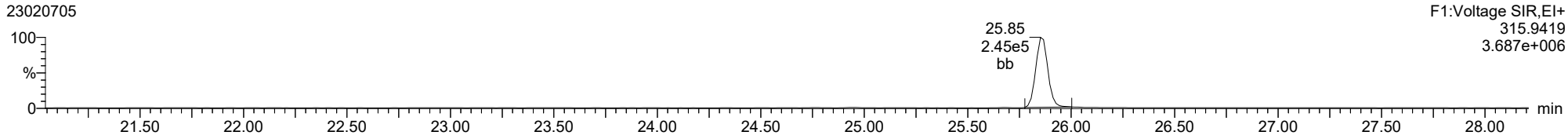

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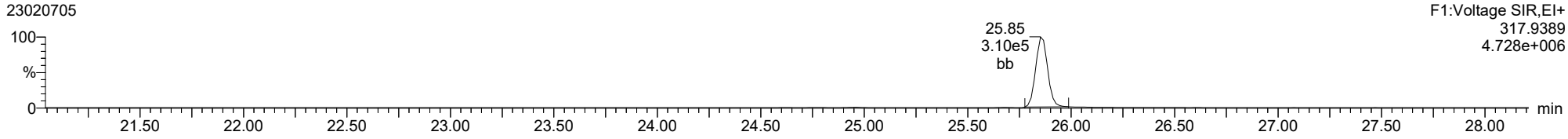

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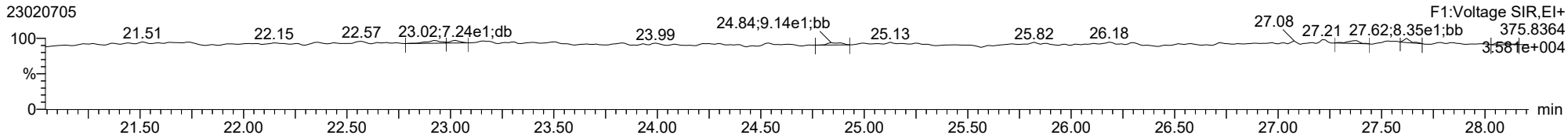

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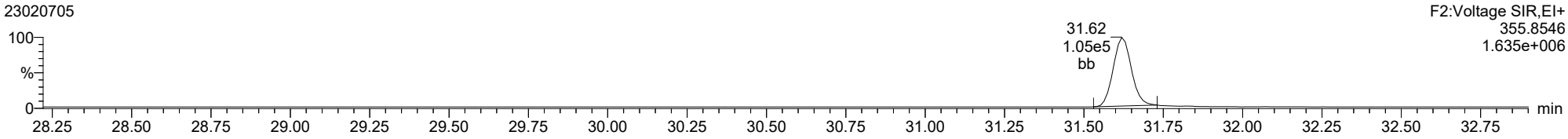
12378-PeCDD



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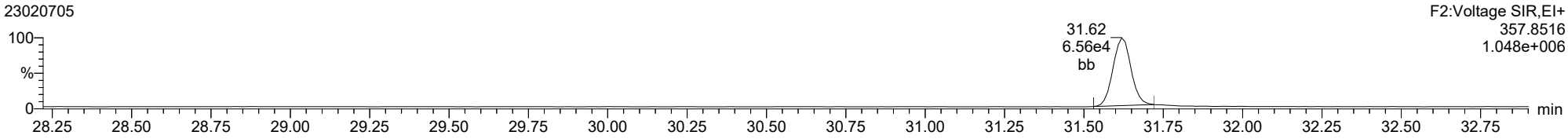

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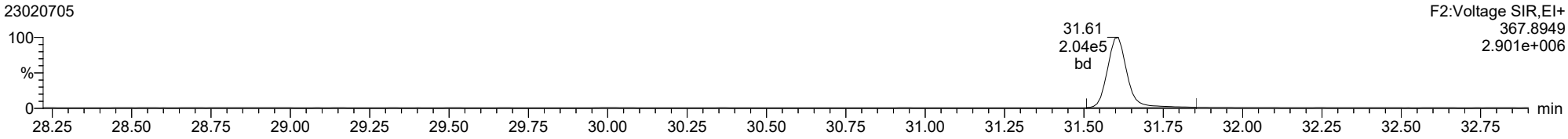

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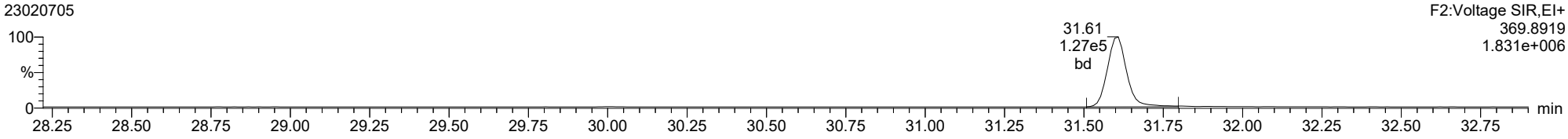

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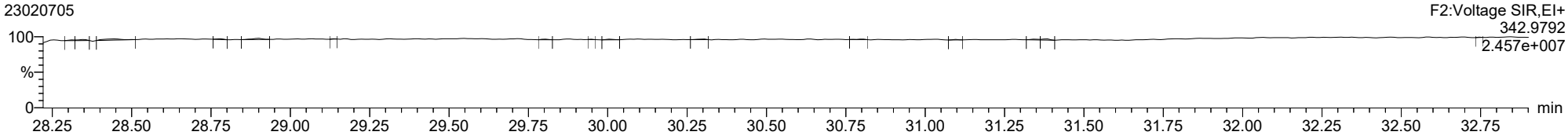

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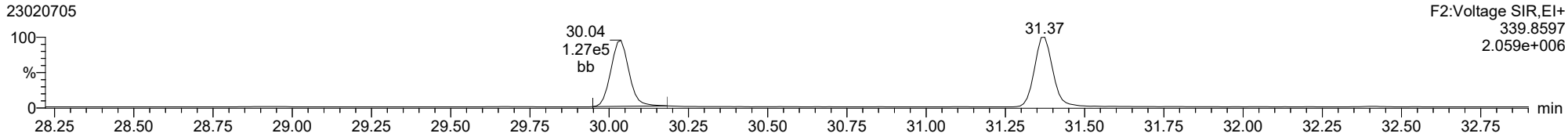
12378-PeCDF



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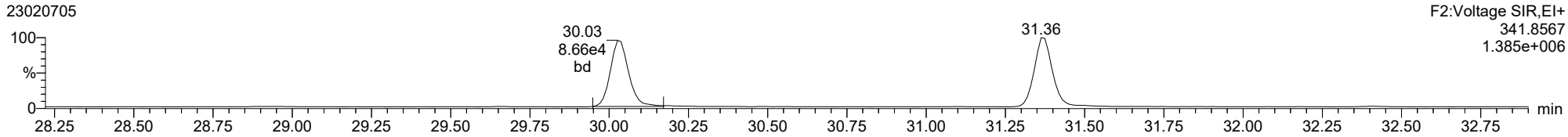

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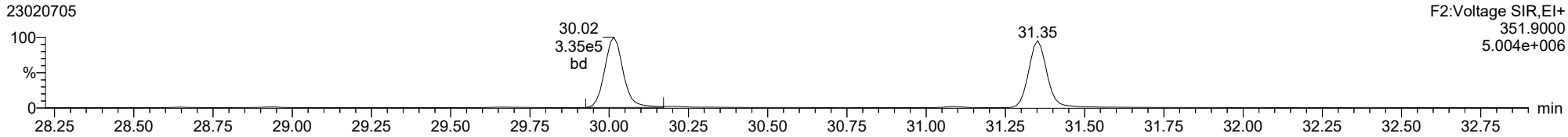

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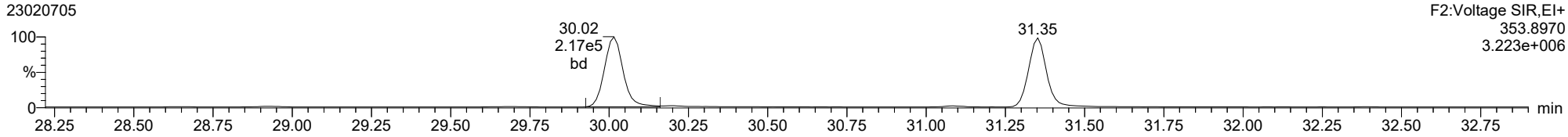

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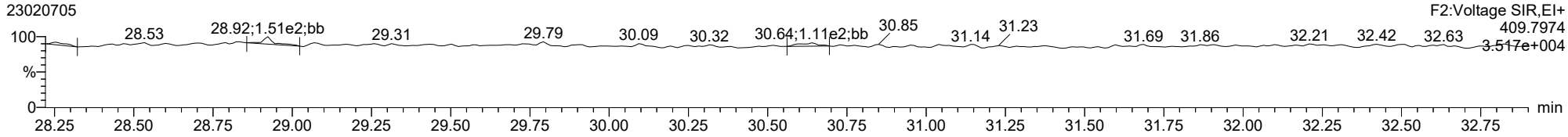

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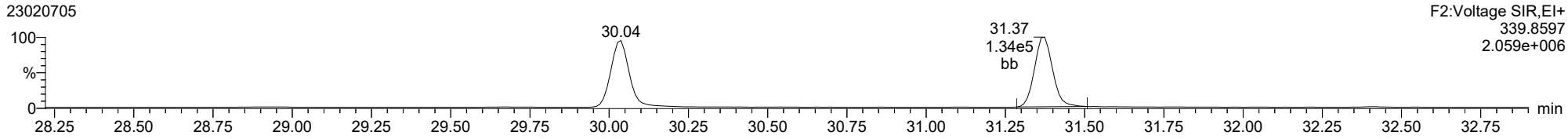

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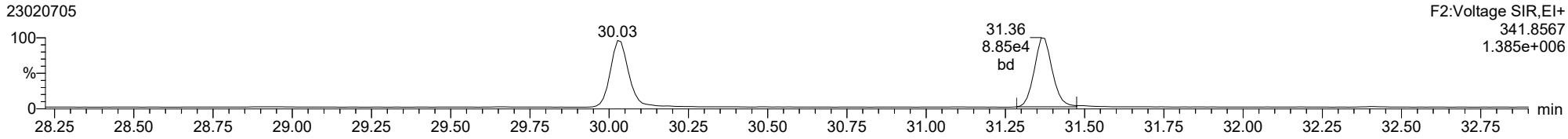

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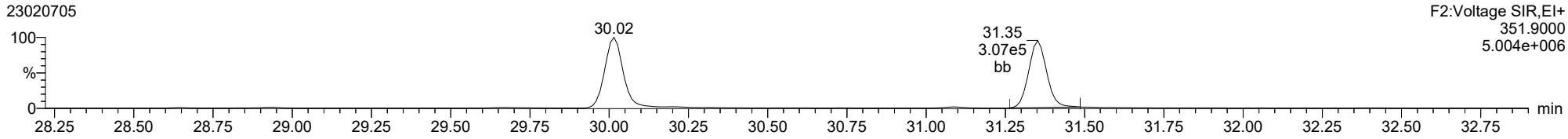

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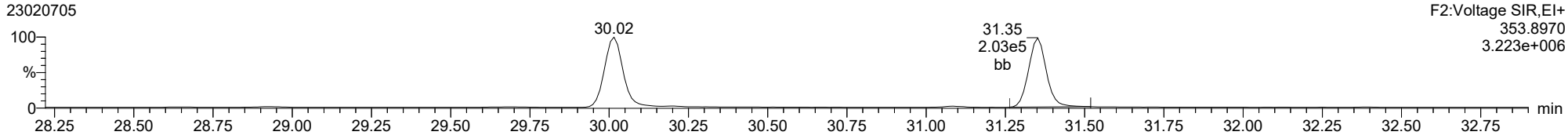

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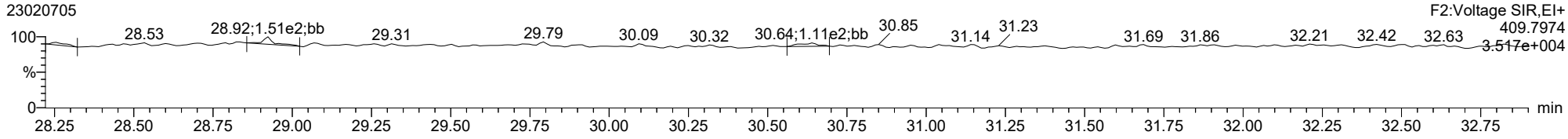

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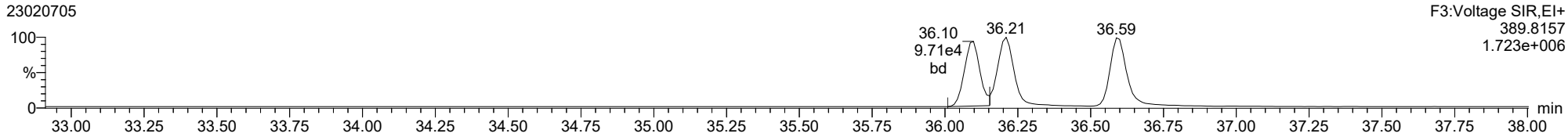

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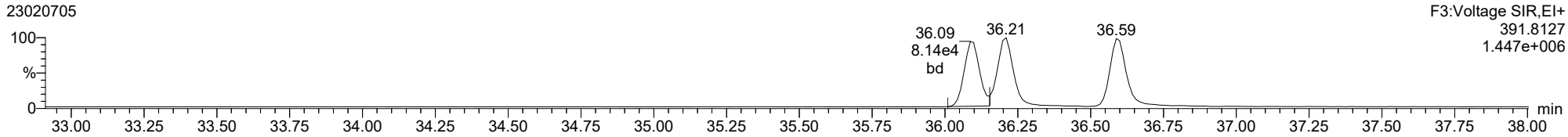

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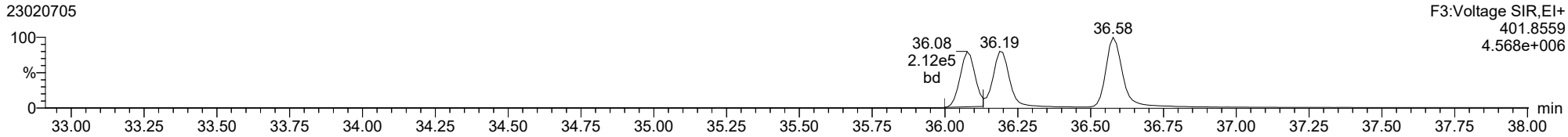

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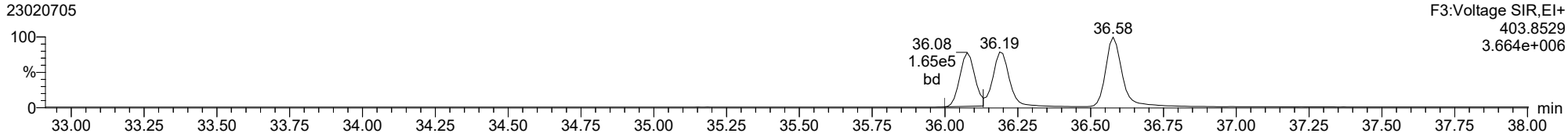

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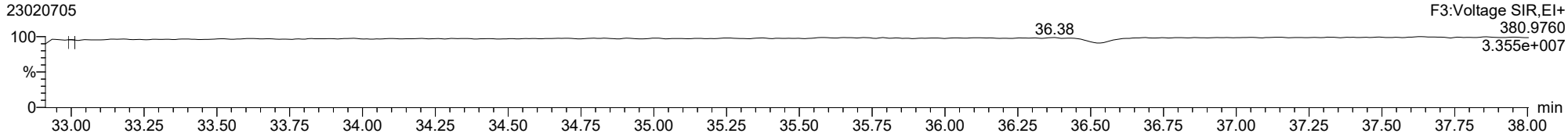

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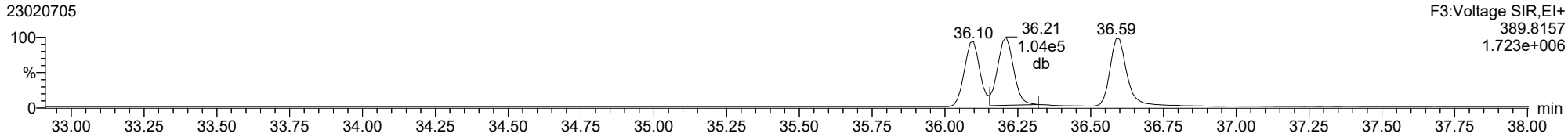

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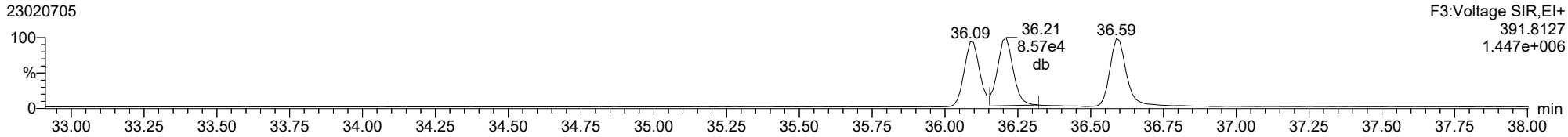

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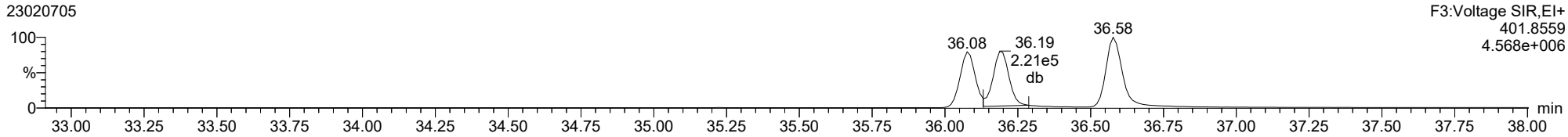

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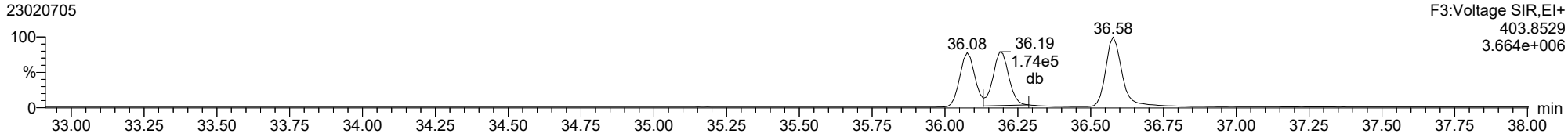

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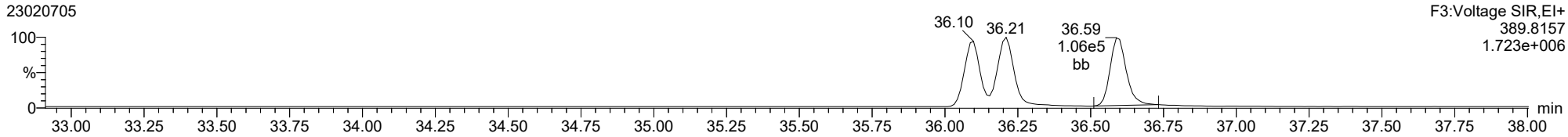

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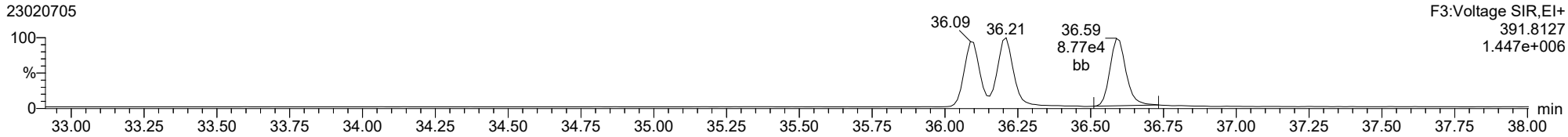

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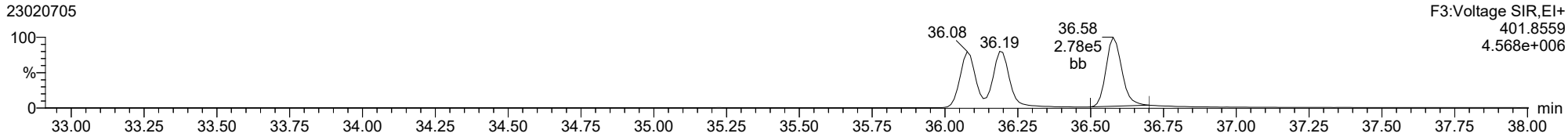

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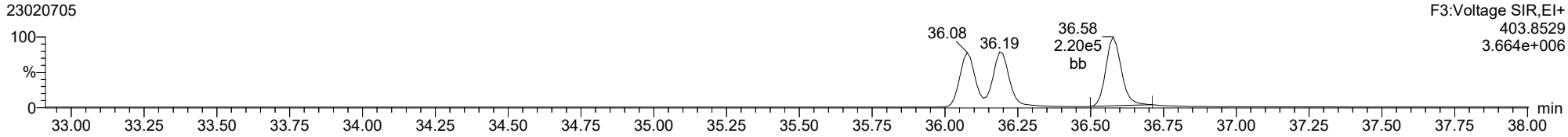

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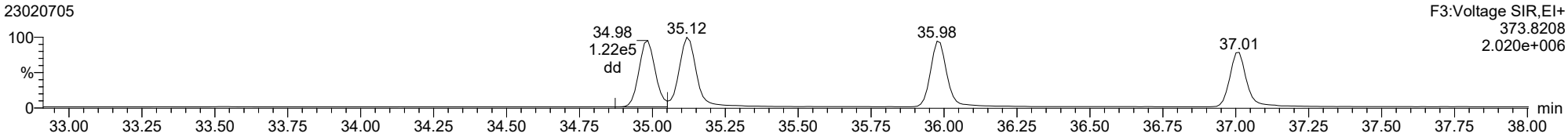

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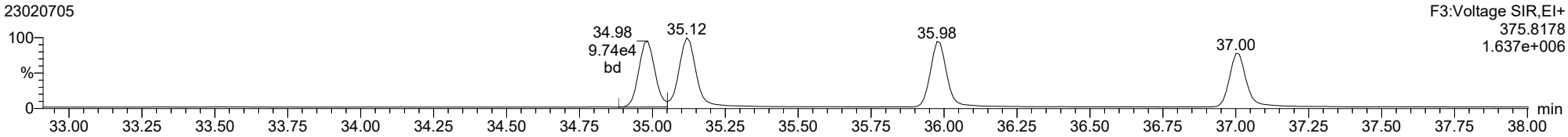

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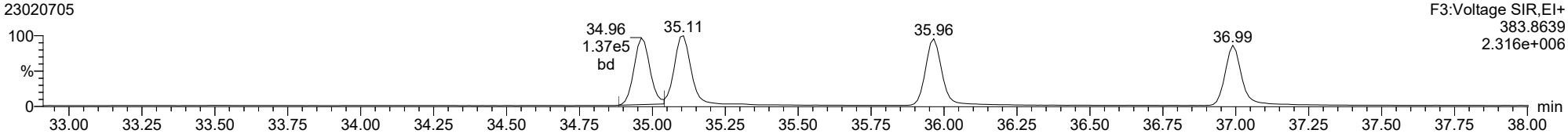

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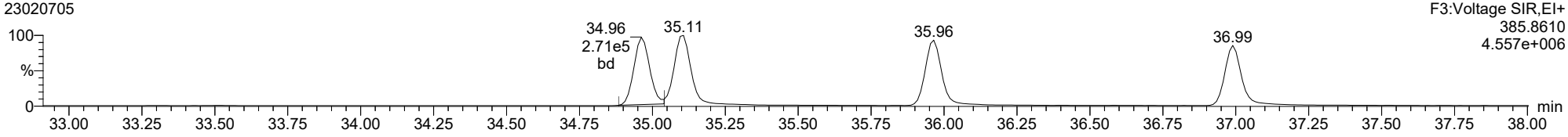

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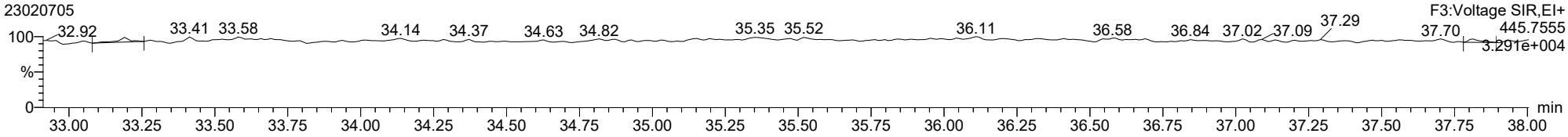

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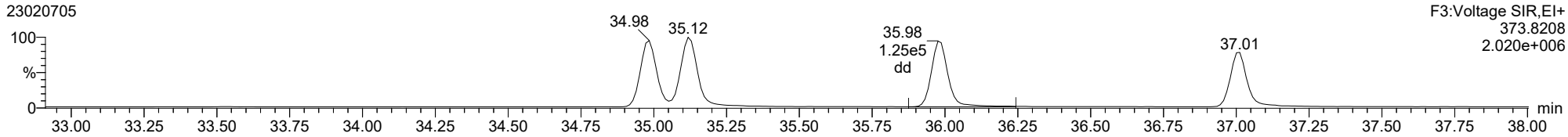

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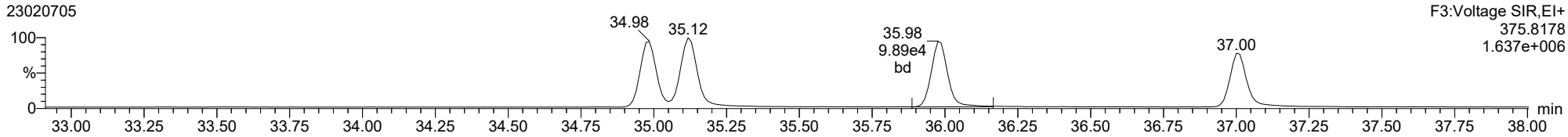

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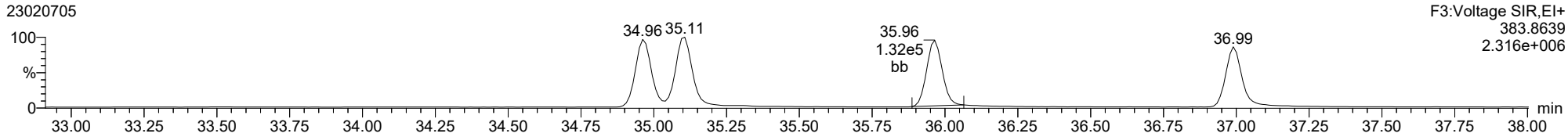

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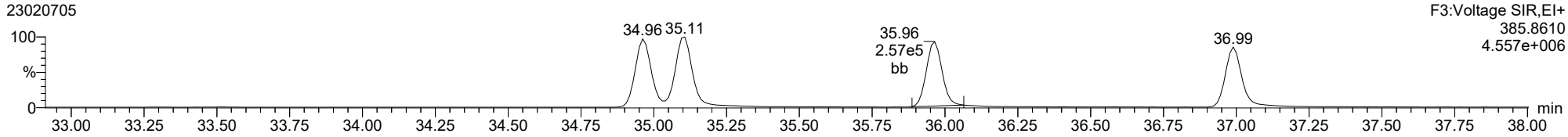

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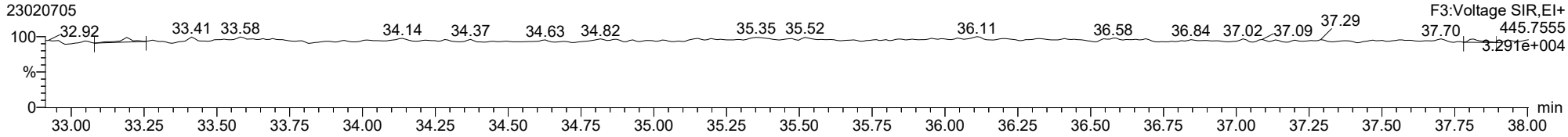

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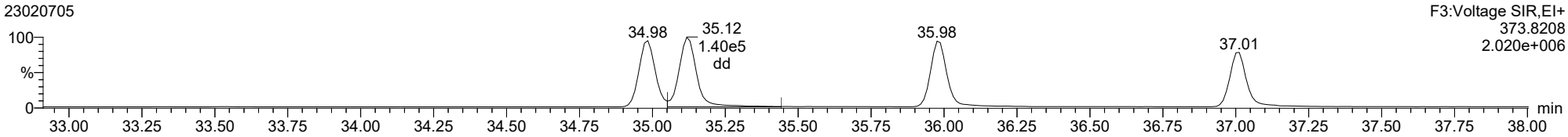

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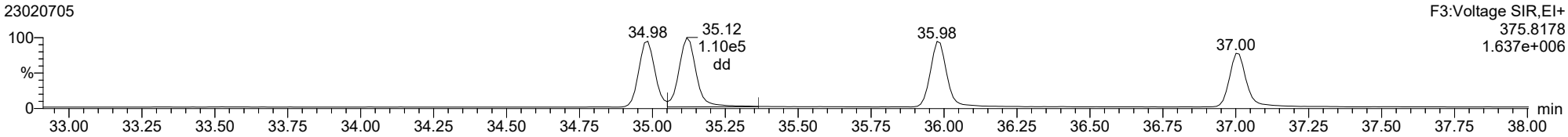

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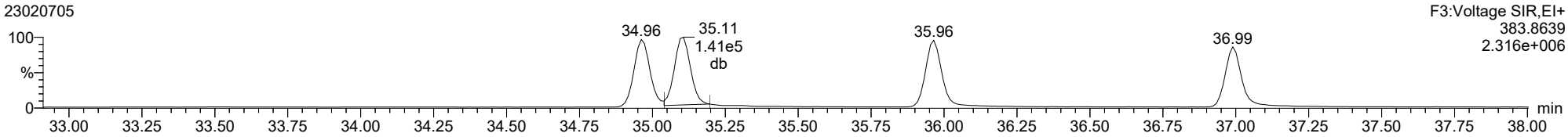

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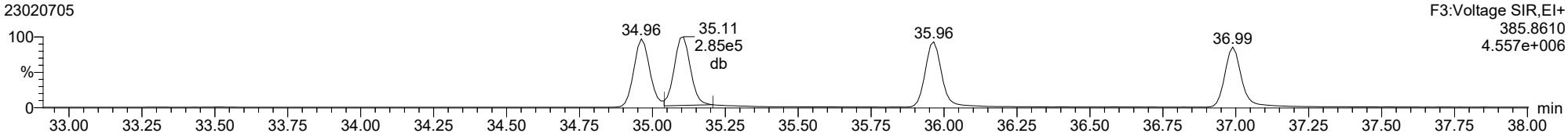

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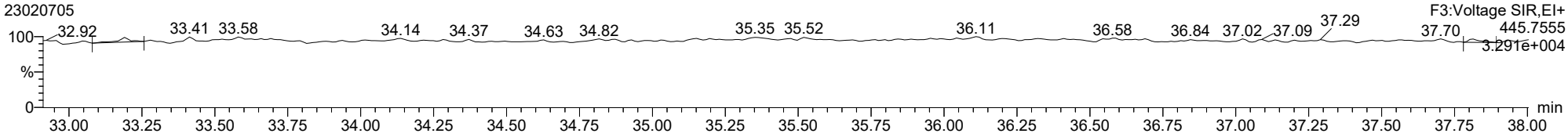

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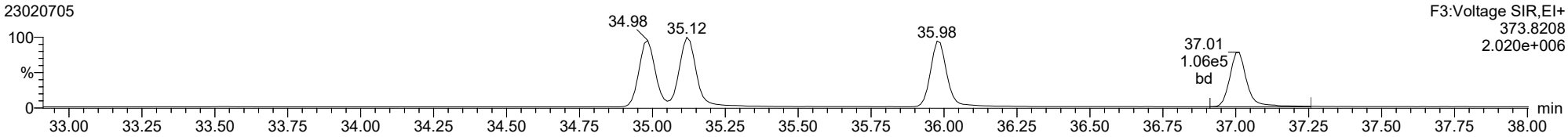

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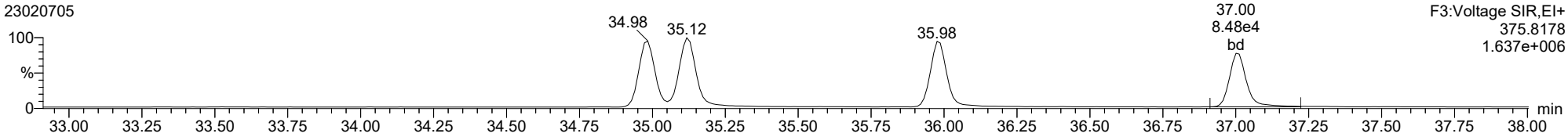

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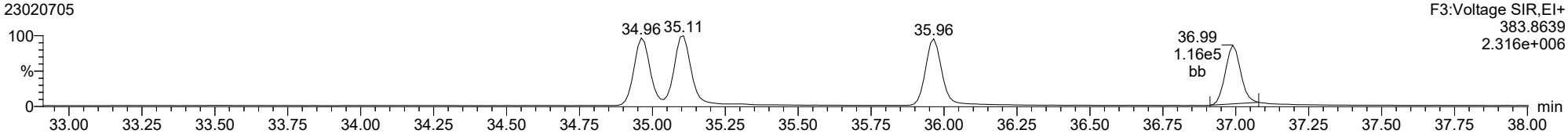

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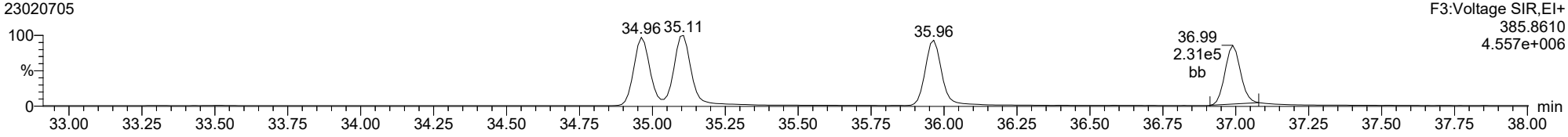

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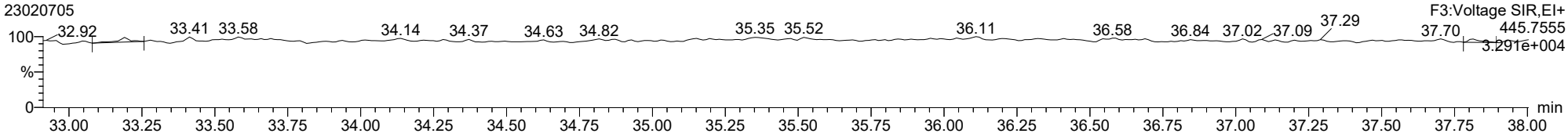

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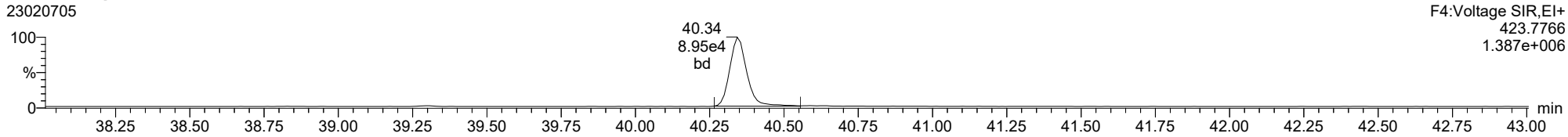

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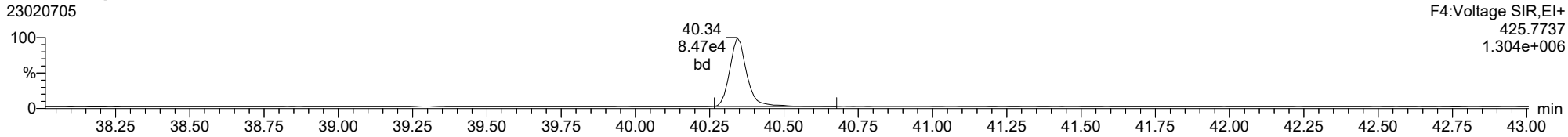

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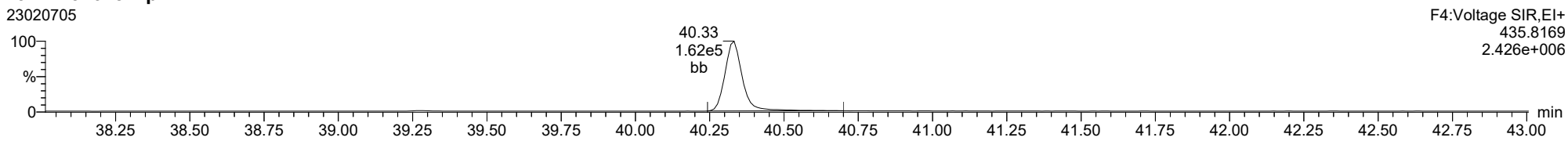

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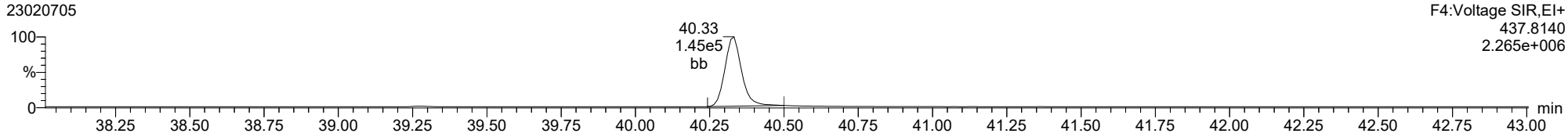

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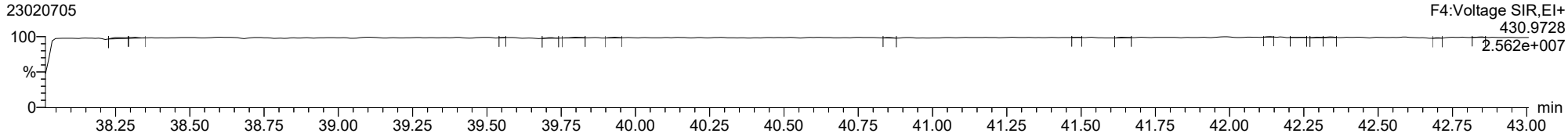

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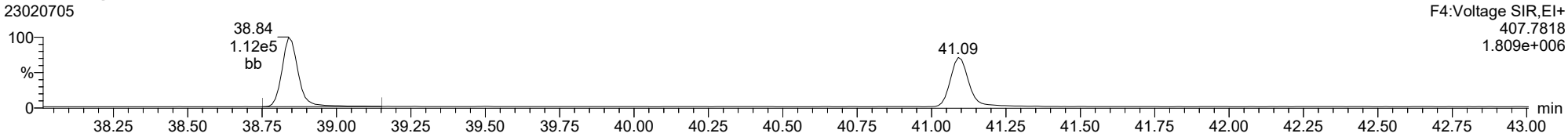

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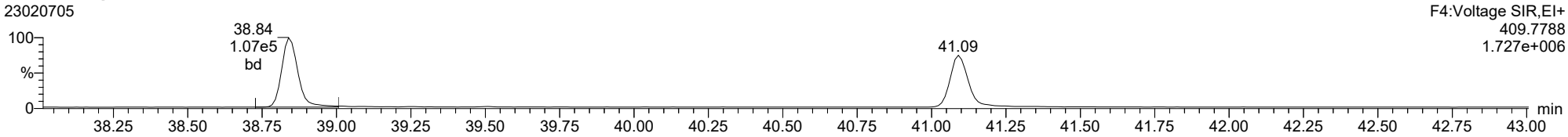

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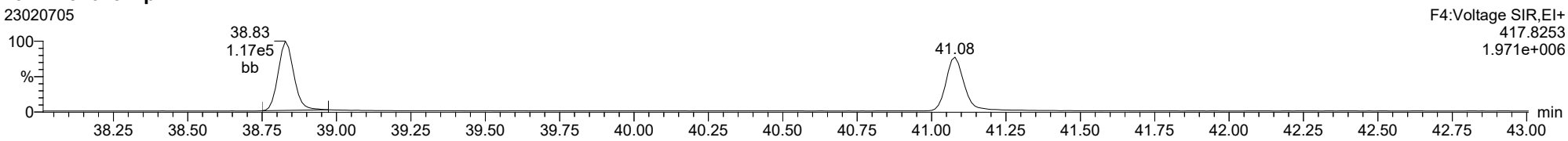

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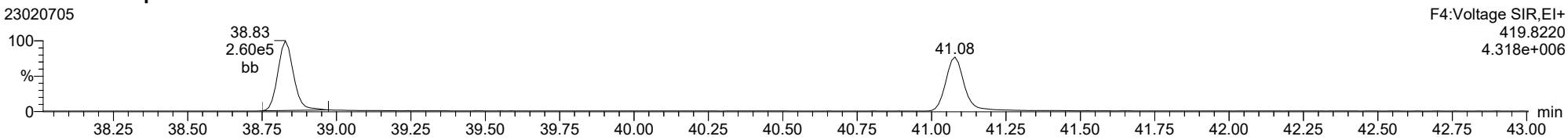
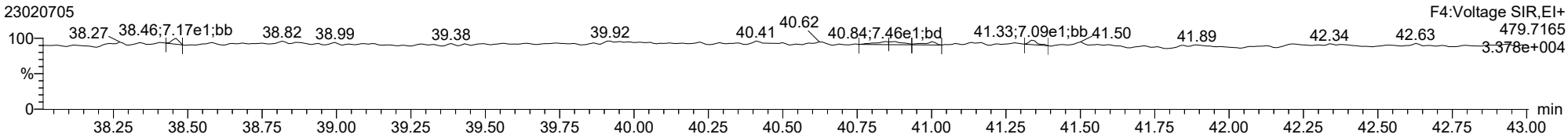
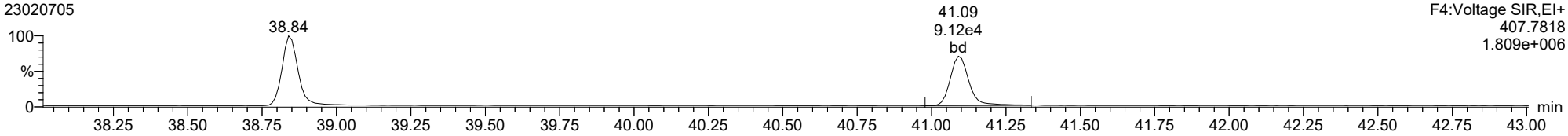


FUNCTION4 NCDPE



ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF



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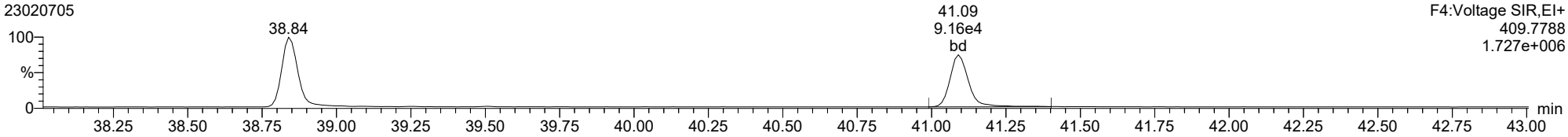

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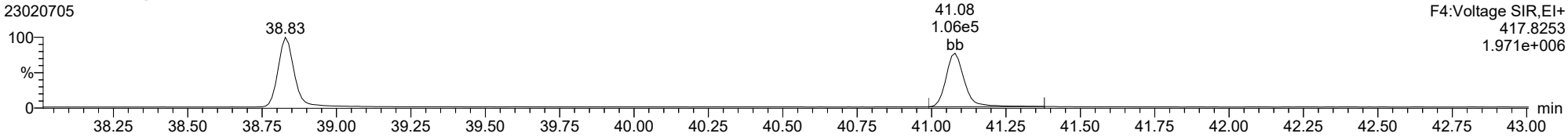

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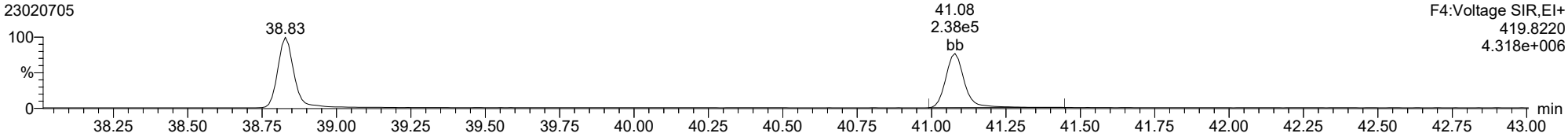
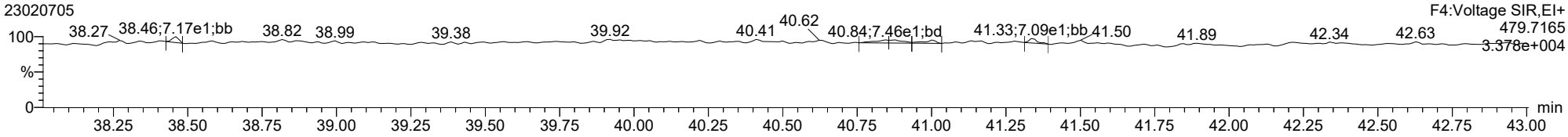
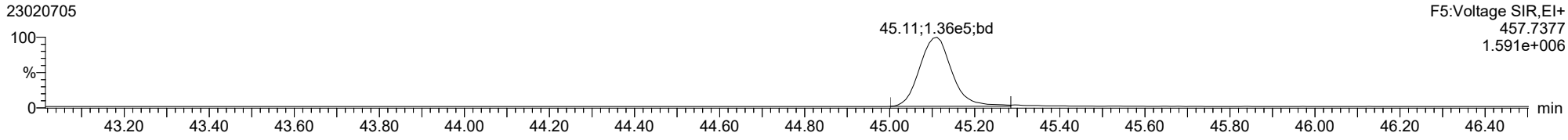


FUNCTION4 NCDPE



ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

OCDD



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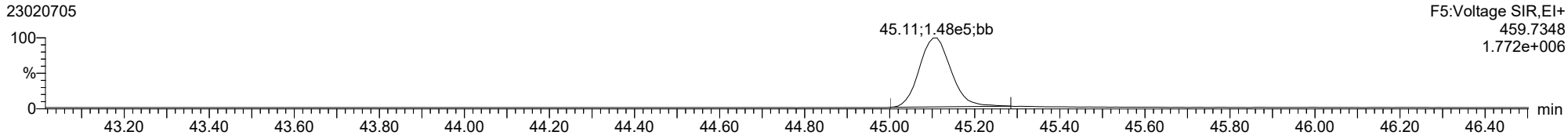

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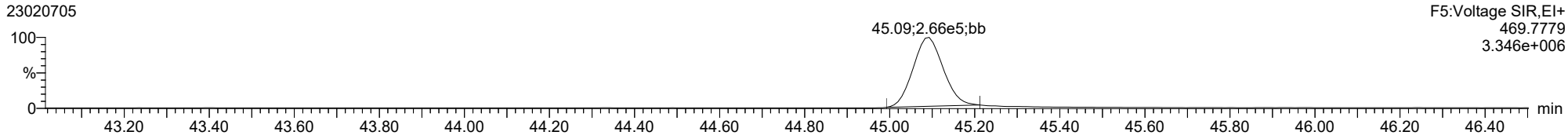

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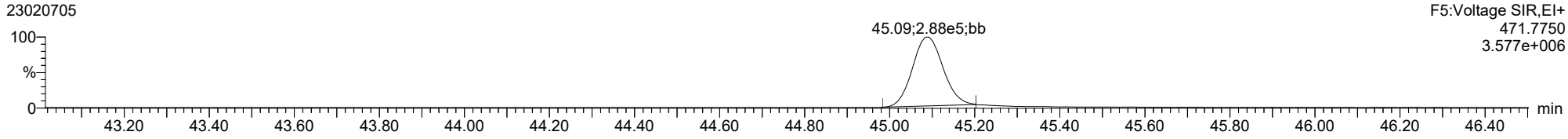
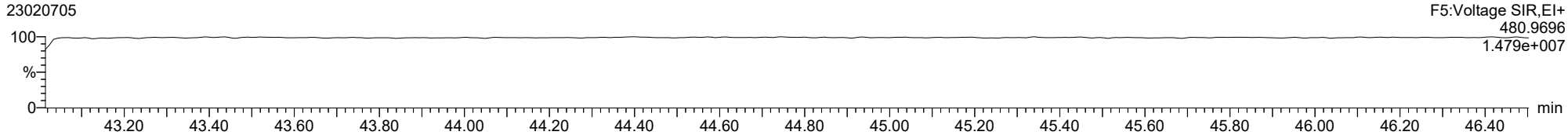
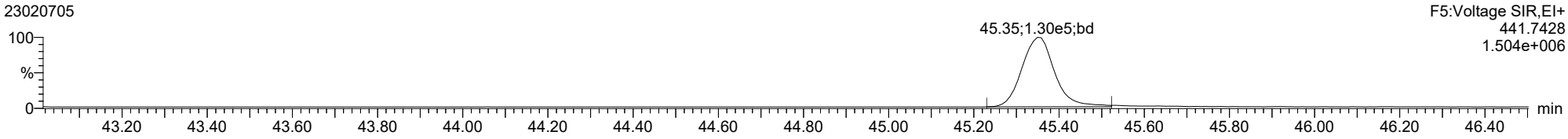


FUNCTION5 PFK

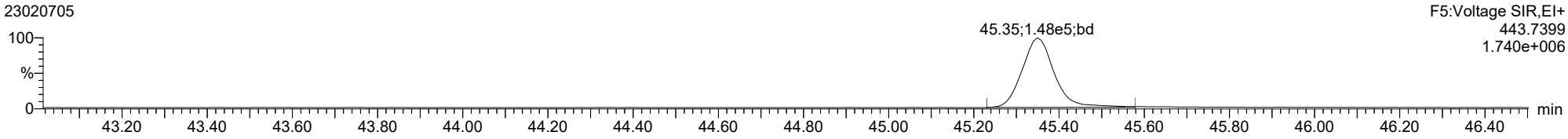


ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

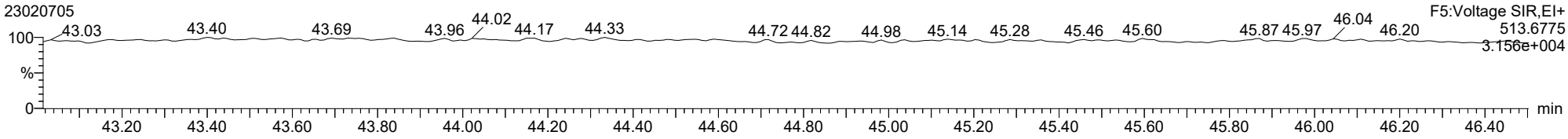
OCDF



OCDF



FUNCTION5 DCDPE



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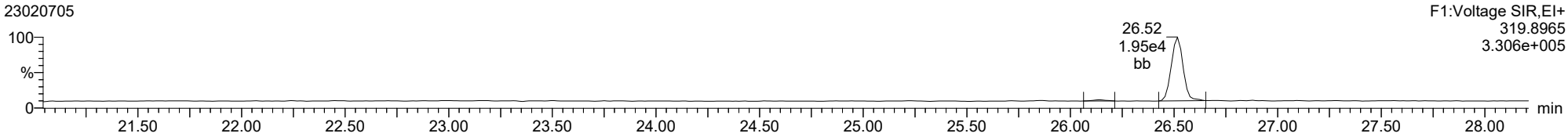
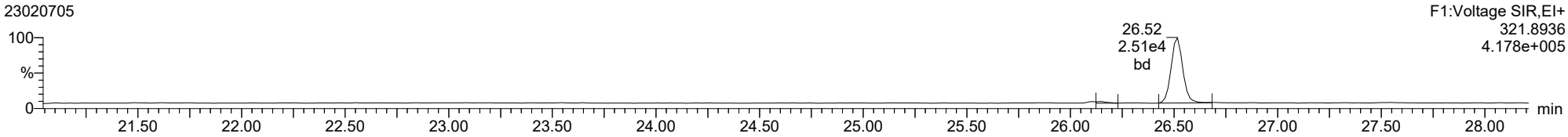
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:28:57 Pacific Standard Time

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

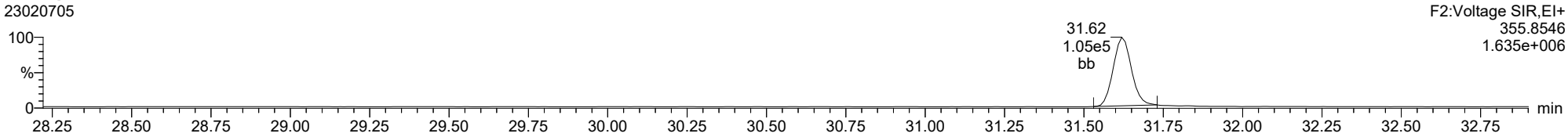
Total-tetradioxins



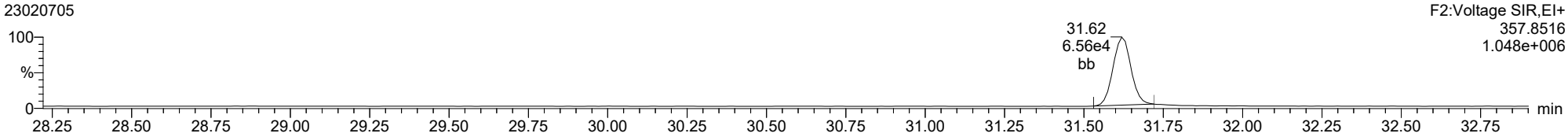
Total-tetradioxins



Total-pentadioxins

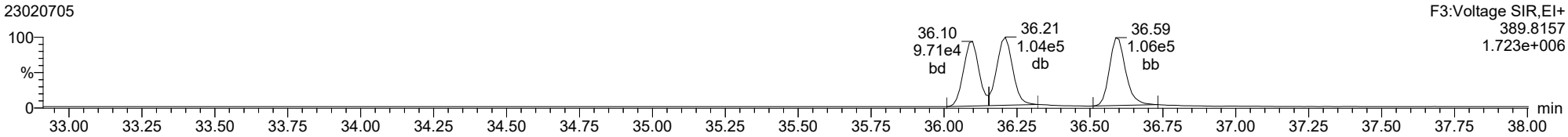


Total-pentadioxins



ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

Total-hexadioxins



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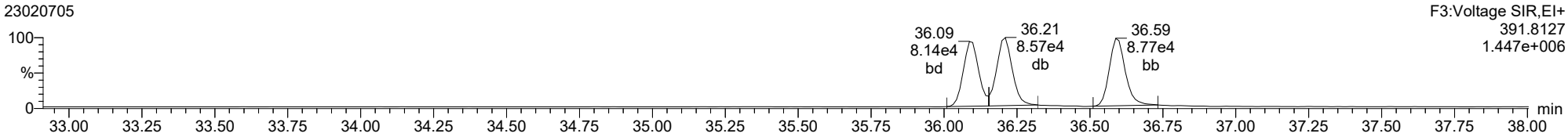

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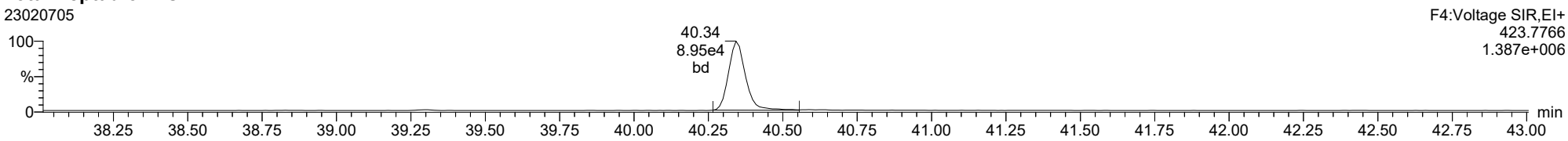

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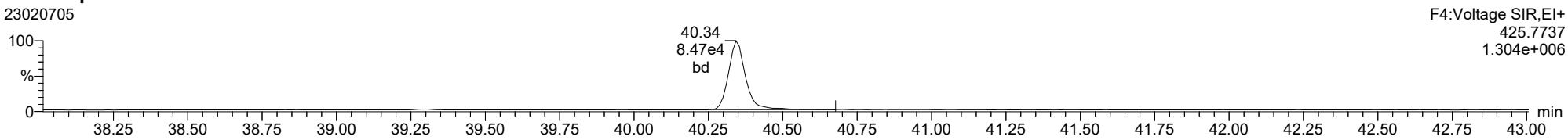
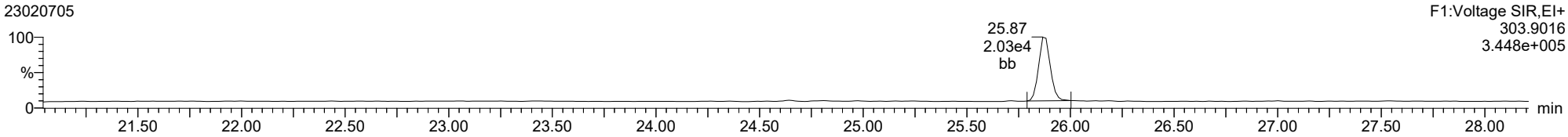


ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



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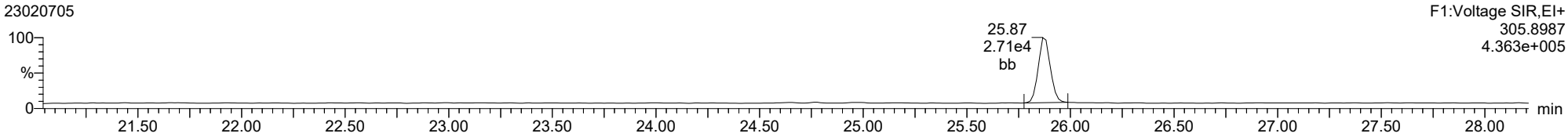

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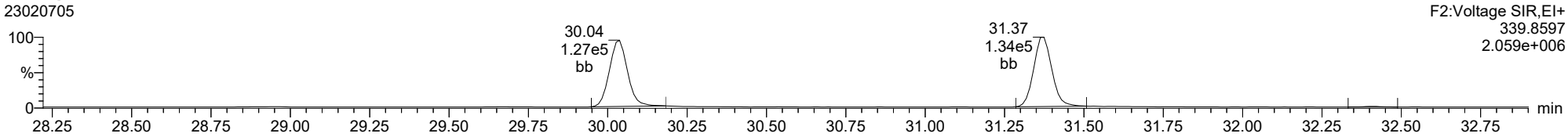
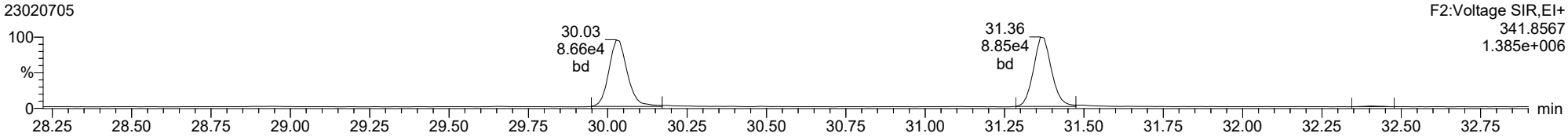


Total-pentafurans



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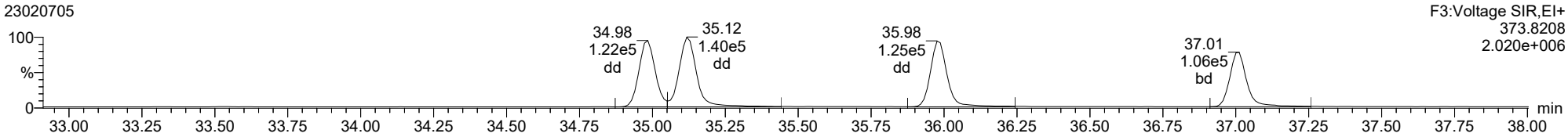
Total-hexafurans



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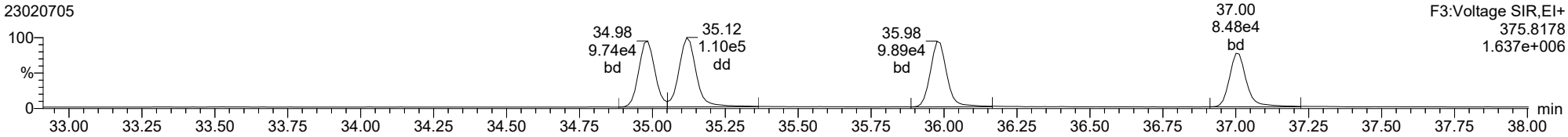

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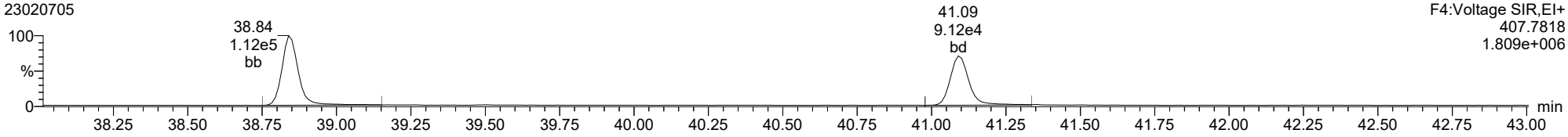
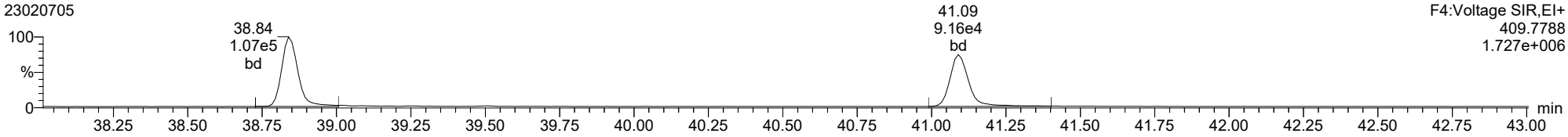


Total-heptafurans



Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLA0079-SRM1
Batch: BLA0079
Initial/Final: 10 g / 20 uL
Preparation: EPA 1613
Analyzed: 02/07/2023 12:53
Standard ID: K011477
Expires: 06/11/2023
Standard Lot#: PSRM0168
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ng/kg wet)	FOUND (ng/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
2,3,7,8-TCDF	1.1100	0.955	0.157	1.00	EMPC, J	86.0	50 - 150
2,3,7,8-TCDD	1.0500	0.747	0.150	1.00	J	71.2	50 - 150
1,2,3,7,8-PeCDF	1.2300	0.827	0.240	1.00	EMPC, J	67.3	50 - 150
2,3,4,7,8-PeCDF	1.0700	0.682	0.220	1.00	J	63.7	50 - 150
1,2,3,7,8-PeCDD	1.0800	1.14	0.181	1.00	EMPC, B	106	50 - 150
1,2,3,4,7,8-HxCDF	3.0200	2.42	0.280	1.00	B	80.1	50 - 150
1,2,3,6,7,8-HxCDF	1.0900	0.786	0.200	1.00	J, B	72.1	50 - 150
2,3,4,6,7,8-HxCDF	1.8300	1.52	0.170	1.00	B	83.2	50 - 150
1,2,3,7,8,9-HxCDF	0.51100	0.510	0.190	1.00	EMPC, J, B	99.9	50 - 150
1,2,3,4,7,8-HxCDD	1.5900	1.23	0.193	1.00		77.2	50 - 150
1,2,3,6,7,8-HxCDD	3.8800	2.86	0.189	1.00		73.8	50 - 150
1,2,3,7,8,9-HxCDD	3.0400	2.23	0.220	1.00	B	73.5	50 - 150
1,2,3,4,6,7,8-HpCDF	18.700	18.4	0.210	1.00	B	98.2	50 - 150
1,2,3,4,7,8,9-HpCDF	1.6300	1.51	0.240	1.00		92.4	50 - 150
1,2,3,4,6,7,8-HpCDD	90.600	84.4	0.560	2.50	B	93.1	50 - 150
OCDF	58.400	50.7	1.10	2.50	B	86.8	50 - 150
OCDD	811.00	723	4.60	10.0	B	89.1	50 - 150

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
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Printed: Wednesday, February 08, 2023 09:29:11 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.912	1.001	1.575e3	1.601e3	0.876	0.983	0.770	1504	1124	2.13e4	2.00e4	14.2	17.8	YES	dd	dd	0.477
12378-PeCDF	30.060	1.001	1.499e3	1.177e3	0.845	1.273	1.550	1544	1706	2.62e4	2.26e4	17.0	13.2	YES	bb	bb	0.414
23478-PeCDF	31.385	1.000	1.418e3	8.398e2	0.911	1.688	1.550	1544	1706	2.22e4	1.29e4	14.4	7.6	NO	bb	bb	0.341
123478-HxCDF	35.006	1.000	4.525e3	3.550e3	1.182	1.275	1.240	914	916	6.55e4	5.24e4	71.6	57.2	NO	bd	bd	1.210
234678-HxCDF	36.020	1.000	2.916e3	2.266e3	1.229	1.287	1.240	914	916	3.27e4	2.62e4	35.8	28.6	NO	bb	bb	0.761
123678-HxCDF	35.151	1.001	1.693e3	1.213e3	1.248	1.395	1.240	914	916	2.41e4	1.76e4	26.3	19.2	NO	MM	db	0.393
123789-HxCDF	37.012	1.000	7.691e2	7.763e2	1.187	0.991	1.240	914	916	1.04e4	1.04e4	11.4	11.3	YES	bb	bb	0.255
1234678-HpCDF	38.861	1.000	2.998e4	2.857e4	1.204	1.049	1.050	1016	1143	4.77e5	4.52e5	469.5	395.5	NO	bb	bb	9.178
1234789-HpCDF	41.123	1.001	2.206e3	2.007e3	1.165	1.099	1.050	1016	1143	2.70e4	3.06e4	26.5	26.8	NO	bb	bb	0.753
OCDF	45.376	1.006	5.242e4	6.045e4	1.186	0.867	0.890	840	1194	5.96e5	7.09e5	709.3	593.8	NO	bb	bd	25.341
2378-TCDD	26.547	1.001	1.006e3	1.476e3	1.236	0.681	0.770	1190	987	1.43e4	2.10e4	12.0	21.3	NO	bd	bb	0.374
12378-PeCDD	31.642	1.000	1.841e3	9.923e2	1.087	1.855	1.550	1323	847	2.96e4	1.72e4	22.4	20.3	YES	bb	bb	0.570
123478-HxCDD	36.143	1.001	1.740e3	1.575e3	0.987	1.105	1.240	1337	1565	2.72e4	2.62e4	20.3	16.7	NO	bd	bd	0.614
123678-HxCDD	36.254	1.001	4.740e3	3.607e3	1.021	1.314	1.240	1337	1565	7.54e4	6.22e4	56.4	39.8	NO	dd	db	1.431
123789-HxCDD	36.633	1.011	3.368e3	2.788e3	0.985	1.208	1.240	1337	1565	5.83e4	4.31e4	43.6	27.6	NO	bb	bb	1.117
1234678-HpCDD	40.365	1.000	1.123e5	1.072e5	1.253	1.047	1.050	1743	2180	1.66e6	1.61e6	954.6	740.9	NO	bd	bd	42.191
OCDD	45.138	1.000	6.901e5	8.058e5	1.103	0.857	0.890	1524	1255	8.32e6	9.32e6	5459.5	7425.3	NO	bb	bd	361.326
13C-2378-TCDF	25.882	1.006	3.356e5	4.240e5	1.768	0.791	0.770	2744	1570	5.07e6	6.45e6	1847.3	4106.2	NO	bb	bb	81.059
13C-12378-PeCDF	30.037	1.168	4.707e5	2.951e5	1.527	1.595	1.550	1802	1944	6.68e6	4.33e6	3705.9	2224.5	NO	bd	bb	94.619
13C-23478-PeCDF	31.374	1.220	4.423e5	2.842e5	1.466	1.556	1.550	1802	1944	6.60e6	4.31e6	3660.4	2217.3	NO	bb	bb	93.493
13C-123478-HxCDF	34.995	0.956	1.896e5	3.752e5	1.054	0.505	0.510	1760	1572	2.99e6	5.84e6	1698.0	3715.4	NO	MM	MM	90.957
13C-123678-HxCDF	35.129	0.959	1.996e5	3.930e5	1.080	0.508	0.510	1760	1572	3.07e6	6.06e6	1744.7	3854.9	NO	MM	MM	93.112
13C-234678-HxCDF	36.009	0.983	1.868e5	3.673e5	1.014	0.509	0.510	1760	1572	2.92e6	5.75e6	1658.1	3660.0	NO	bb	bb	92.699
13C-123789-HxCDF	37.012	1.011	1.744e5	3.359e5	0.928	0.519	0.510	1760	1572	3.01e6	5.89e6	1709.9	3745.2	NO	bb	bb	93.313
13C-1234678-HpCDF	38.850	1.061	1.678e5	3.620e5	1.036	0.464	0.440	1257	1906	2.66e6	5.92e6	2113.9	3104.6	NO	bd	bb	86.774
13C-1234789-HpCDF	41.101	1.122	1.486e5	3.315e5	0.905	0.448	0.440	1257	1906	2.12e6	4.69e6	1686.3	2458.5	NO	bd	bb	90.044
13C-1234-TCDD	25.715	0.000	2.336e5	2.964e5	1.000	0.788	0.770	1743	1092	3.58e6	4.52e6	2051.5	4135.7	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.031	2.364e5	3.008e5	1.103	0.786	0.770	1743	1092	3.52e6	4.51e6	2020.2	4127.5	NO	bb	bb	91.896
13C-12378-PeCDD	31.631	1.230	2.834e5	1.743e5	0.914	1.627	1.550	909	1467	4.10e6	2.57e6	4512.2	1750.0	NO	bb	bb	94.470
13C-123478-HxCDD	36.120	0.986	3.071e5	2.398e5	0.933	1.281	1.240	1412	1457	5.13e6	3.99e6	3632.5	2738.4	NO	bd	bd	99.474
13C-123678-HxCDD	36.232	0.989	3.193e5	2.520e5	0.965	1.267	1.240	1412	1457	5.05e6	4.08e6	3579.1	2802.8	NO	db	db	100.496
13C-1234678-HpCDD	40.354	1.102	2.185e5	1.968e5	0.782	1.110	1.050	1531	1487	3.27e6	3.00e6	2138.4	2019.2	NO	bb	bb	90.122
13C-OCDD	45.120	1.232	3.620e5	3.889e5	0.788	0.931	0.890	1431	1325	4.42e6	4.80e6	3091.7	3621.9	NO	bb	bb	161.658
13C-123789-HxCDD	36.622	0.000	3.268e5	2.625e5	1.000	1.245	1.240	1412	1457	5.24e6	4.20e6	3709.5	2883.1	NO	bb	bb	100.000
37CL-2378-TCDD	26.547	1.032	1.959e5		1.233			995		2.94e6		2950.8			bb		29.961

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:29:11 Pacific Standard Time

ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.389	0.865	1.638e2	3.574e2	1.064	0.458	0.770	1504	1124	3.48e3	6.43e3	2.3	5.7	YES	bb	bd	0.064
1289-TCDF					0.858		0.770	1504	1124								
13468-PECDF					1.013		1.550	550	1117								
12389-PECDF					0.844		1.550	1544	1706								
123468-HXCDF	33.357	0.953	4.040e3	3.424e3	1.197	1.180	1.240	914	916	6.36e4	5.09e4	69.6	55.5	NO	bd	bd	1.104
1368-TCDD	23.659	0.892	7.577e2	8.654e2	1.084	0.876	0.770	1190	987	1.23e4	1.41e4	10.4	14.3	NO	bb	bb	0.279
1289-TCDD					0.975		0.770	1190	987								
12479-PECDD					1.837		1.550	1323	847								
12389-PECDD	32.065	1.014	2.238e2	2.657e2	1.252	0.842	1.550	1323	847	4.82e3	4.08e3	3.6	4.8	YES	bb	bb	0.085
124679-HXCDD	34.115	0.944	1.145e4	1.002e4	1.033	1.143	1.240	1337	1565	1.80e5	1.53e5	134.4	98.0	NO	bb	bb	3.801
1234679-HPCDD	39.318	0.974	1.625e5	1.528e5	1.286	1.064	1.050	1743	2180	2.58e6	2.46e6	1478.1	1130.5	NO	bd	bb	59.021
Total-tetrafurans			4.983e3		0.933			1504		7.59e4							1.614
Total-penta1			9.571e3					550		1.29e5							2.191
Total-pentafurans			6.036e3		0.866			1544		7.81e4							1.534
Total-hexafurans			4.516e4		1.208			914		6.67e5							12.126
Total-heptafurans			9.229e4		1.185			1016		1.43e6							29.997
Total-Furans			2.105e5		1.067			1504		2.97e6							72.803
Total-tetradioxins			3.691e3		1.099			1190		6.11e4							1.408
Total-pentadioxins			3.722e3		1.392			1323		4.33e4							0.938
Total-hexadioxins			3.810e4		1.007			1337		5.28e5							12.350
Total-heptadioxins			2.747e5		1.269			1743		4.24e6							101.212
Total-Dioxins			1.010e6		1.165			1190		1.32e7							477.234
Total-TEQ			1.221e6					1190		1.62e7							550.037
FUNCTION1 PFK			1.620e7					472546		4.92e7							
FUNCTION2 PFK			1.078e6					339245		2.02e6							0.000
FUNCTION3 PFK			5.611e6					246030		2.32e7							0.000
FUNCTION4 PFK			1.788e7					208675		1.33e7							
FUNCTION5 PFK			8.852e6					143620		1.10e8							
FUNCTION1 HXCD...			9.275e2					841		1.76e4							0.000
FUNCTION1 HPCD...			3.274e3					675		5.55e4							0.000
FUNCTION2 HPCD...			7.339e2					1207		1.58e4							0.000
FUNCTION3 OCDPE			5.705e2					694		1.06e4							0.000
FUNCTION4 NCDPE			8.543e3					777		1.45e5							0.000
FUNCTION5 DCDPE			1.044e2					627		1.27e3							0.000

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Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	26.12	1.196e3	1.375e3	0.933	0.87	0.77	8.8	YES	NO	db	dd	0.363
2	Total-tetrafurans	26.05	6.884e2	9.342e2	0.933	0.74	0.77	6.0	YES	NO	dd	dd	0.229
3	Total-tetrafurans	24.99	1.526e3	2.072e3	0.933	0.74	0.77	18.1	YES	NO	bb	bb	0.508
4	Total-tetrafurans	24.81	1.063e3	1.396e3	0.933	0.76	0.77	10.8	YES	NO	db	db	0.347
5	Total-tetrafurans	24.31	5.100e2	6.741e2	0.933	0.76	0.77	6.7	YES	NO	db	dd	0.167

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.33	9.571e3	5.812e3		1.65	1.55	235.3	YES	NO	db	MM	2.191

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.39	1.418e3	8.398e2	0.911	1.69	1.55	14.4	YES	NO	bb	bb	0.341
2	Total-pentafurans	31.25	8.143e2	5.525e2	0.866	1.47	1.55	8.9	YES	NO	db	db	0.211
3	Total-pentafurans	28.79	1.711e3	1.227e3	0.866	1.39	1.55	9.6	YES	NO	dd	dd	0.454
4	Total-pentafurans	28.62	2.093e3	1.315e3	0.866	1.59	1.55	17.7	YES	NO	bd	bd	0.527

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.56	1.356e4	1.136e4	1.208	1.19	1.24	217.3	YES	NO	db	db	3.712
2	123468-HXCDF	33.36	4.040e3	3.424e3	1.197	1.18	1.24	69.6	YES	NO	bd	bd	1.104
3	234678-HxCDF	36.02	2.916e3	2.266e3	1.229	1.29	1.24	35.8	YES	NO	bb	bb	0.761
4	123678-HxCDF	35.15	1.693e3	1.213e3	1.248	1.40	1.24	26.3	YES	NO	MM	db	0.393
5	123478-HxCDF	35.01	4.525e3	3.550e3	1.182	1.27	1.24	71.6	YES	NO	bd	bd	1.210
6	Total-hexafurans	34.86	6.292e2	4.975e2	1.208	1.26	1.24	12.1	YES	NO	bb	bb	0.168
7	Total-hexafurans	34.39	1.745e4	1.396e4	1.208	1.25	1.24	290.5	YES	NO	bb	bb	4.679
8	Total-hexafurans	34.09	3.483e2	3.155e2	1.208	1.10	1.24	6.1	YES	NO	bb	bb	0.099

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HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.53	5.958e4	5.938e4	1.185	1.00	1.05	897.9	YES	NO	bd	bb	19.884
2	Total-heptafurans	39.28	5.205e2	5.717e2	1.185	0.91	1.05	9.4	YES	NO	bb	bb	0.183
3	1234678-HpCDF	38.86	2.998e4	2.857e4	1.204	1.05	1.05	469.5	YES	NO	bb	bb	9.178
4	1234789-HpCDF	41.12	2.206e3	2.007e3	1.165	1.10	1.05	26.5	YES	NO	bb	bb	0.753

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	26.12	1.196e3	1.375e3	0.933	0.87	0.77	8.8	YES	NO	db	dd	0.363
2	Total-tetrafurans	26.05	6.884e2	9.342e2	0.933	0.74	0.77	6.0	YES	NO	dd	dd	0.229
3	Total-tetrafurans	24.99	1.526e3	2.072e3	0.933	0.74	0.77	18.1	YES	NO	bb	bb	0.508
4	Total-tetrafurans	24.81	1.063e3	1.396e3	0.933	0.76	0.77	10.8	YES	NO	db	db	0.347
5	Total-tetrafurans	24.31	5.100e2	6.741e2	0.933	0.76	0.77	6.7	YES	NO	db	dd	0.167
6	23478-PeCDF	31.39	1.418e3	8.398e2	0.911	1.69	1.55	14.4	YES	NO	bb	bb	0.341
7	Total-pentafurans	31.25	8.143e2	5.525e2	0.866	1.47	1.55	8.9	YES	NO	db	db	0.211
8	Total-pentafurans	28.79	1.711e3	1.227e3	0.866	1.39	1.55	9.6	YES	NO	dd	dd	0.454
9	Total-pentafurans	28.62	2.093e3	1.315e3	0.866	1.59	1.55	17.7	YES	NO	bd	bd	0.527
10	Total-hexafurans	33.56	1.356e4	1.136e4	1.208	1.19	1.24	217.3	YES	NO	db	db	3.712
11	123468-HXCDF	33.36	4.040e3	3.424e3	1.197	1.18	1.24	69.6	YES	NO	bd	bd	1.104
12	234678-HxCDF	36.02	2.916e3	2.266e3	1.229	1.29	1.24	35.8	YES	NO	bb	bb	0.761
13	123678-HxCDF	35.15	1.693e3	1.213e3	1.248	1.40	1.24	26.3	YES	NO	MM	db	0.393
14	123478-HxCDF	35.01	4.525e3	3.550e3	1.182	1.27	1.24	71.6	YES	NO	bd	bd	1.210
15	Total-hexafurans	34.86	6.292e2	4.975e2	1.208	1.26	1.24	12.1	YES	NO	bb	bb	0.168
16	Total-hexafurans	34.39	1.745e4	1.396e4	1.208	1.25	1.24	290.5	YES	NO	bb	bb	4.679
17	Total-hexafurans	34.09	3.483e2	3.155e2	1.208	1.10	1.24	6.1	YES	NO	bb	bb	0.099
18	Total-heptafurans	39.53	5.958e4	5.938e4	1.185	1.00	1.05	897.9	YES	NO	bd	bb	19.884
19	Total-heptafurans	39.28	5.205e2	5.717e2	1.185	0.91	1.05	9.4	YES	NO	bb	bb	0.183
20	1234678-HpCDF	38.86	2.998e4	2.857e4	1.204	1.05	1.05	469.5	YES	NO	bb	bb	9.178
21	OCDF	45.38	5.242e4	6.045e4	1.186	0.87	0.89	709.3	YES	NO	bb	bd	25.341
22	1234789-HpCDF	41.12	2.206e3	2.007e3	1.165	1.10	1.05	26.5	YES	NO	bb	bb	0.753
23	Total-penta1	27.33	9.571e3	5.812e3		1.65	1.55	235.3	YES	NO	db	MM	2.191

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TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.55	1.006e3	1.476e3	1.236	0.68	0.77	12.0	YES	NO	bd	bb	0.374
2	Total-tetradioxins	25.73	6.567e2	7.634e2	1.099	0.86	0.77	10.4	YES	NO	bb	bb	0.241
3	Total-tetradioxins	25.16	6.049e2	7.678e2	1.099	0.79	0.77	8.9	YES	NO	bb	bb	0.233
4	Total-tetradioxins	24.67	6.660e2	9.984e2	1.099	0.67	0.77	9.7	YES	NO	bb	bb	0.282
5	1368-TCDD	23.66	7.577e2	8.654e2	1.084	0.88	0.77	10.4	YES	NO	bb	bb	0.279

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.27	1.283e3	8.781e2	1.392	1.46	1.55	13.3	YES	NO	bd	bb	0.339
2	Total-pentadioxins	28.98	2.439e3	1.373e3	1.392	1.78	1.55	19.4	YES	NO	db	bb	0.598

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	35.36	1.638e3	1.297e3	1.007	1.26	1.24	17.9	YES	NO	db	db	0.522
2	Total-hexadioxins	35.25	1.436e4	1.163e4	1.007	1.23	1.24	112.7	YES	NO	bd	bd	4.619
3	124679-HXCDD	34.12	1.145e4	1.002e4	1.033	1.14	1.24	134.4	YES	NO	bb	bb	3.801
4	123789-HxCDD	36.63	3.368e3	2.788e3	0.985	1.21	1.24	43.6	YES	NO	bb	bb	1.117
5	Total-hexadioxins	36.42	7.987e2	5.873e2	1.007	1.36	1.24	9.4	YES	NO	db	bb	0.246
6	123678-HxCDD	36.25	4.740e3	3.607e3	1.021	1.31	1.24	56.4	YES	NO	dd	db	1.431
7	123478-HxCDD	36.14	1.740e3	1.575e3	0.987	1.10	1.24	20.3	YES	NO	bd	bd	0.614

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.37	1.123e5	1.072e5	1.253	1.05	1.05	954.6	YES	NO	bd	bd	42.191
2	1234679-HPCDD	39.32	1.625e5	1.528e5	1.286	1.06	1.05	1478.1	YES	NO	bd	bb	59.021

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.55	1.006e3	1.476e3	1.236	0.68	0.77	12.0	YES	NO	bd	bb	0.374
2	Total-tetradioxins	25.73	6.567e2	7.634e2	1.099	0.86	0.77	10.4	YES	NO	bb	bb	0.241
3	Total-tetradioxins	25.16	6.049e2	7.678e2	1.099	0.79	0.77	8.9	YES	NO	bb	bb	0.233
4	Total-tetradioxins	24.67	6.660e2	9.984e2	1.099	0.67	0.77	9.7	YES	NO	bb	bb	0.282
5	1368-TCDD	23.66	7.577e2	8.654e2	1.084	0.88	0.77	10.4	YES	NO	bb	bb	0.279
6	Total-pentadioxins	30.27	1.283e3	8.781e2	1.392	1.46	1.55	13.3	YES	NO	bd	bb	0.339
7	Total-pentadioxins	28.98	2.439e3	1.373e3	1.392	1.78	1.55	19.4	YES	NO	db	bb	0.598
8	Total-hexadioxins	35.36	1.638e3	1.297e3	1.007	1.26	1.24	17.9	YES	NO	db	db	0.522
9	Total-hexadioxins	35.25	1.436e4	1.163e4	1.007	1.23	1.24	112.7	YES	NO	bd	bd	4.619
10	124679-HXCDD	34.12	1.145e4	1.002e4	1.033	1.14	1.24	134.4	YES	NO	bb	bb	3.801
11	123789-HxCDD	36.63	3.368e3	2.788e3	0.985	1.21	1.24	43.6	YES	NO	bb	bb	1.117
12	Total-hexadioxins	36.42	7.987e2	5.873e2	1.007	1.36	1.24	9.4	YES	NO	db	bb	0.246
13	123678-HxCDD	36.25	4.740e3	3.607e3	1.021	1.31	1.24	56.4	YES	NO	dd	db	1.431
14	123478-HxCDD	36.14	1.740e3	1.575e3	0.987	1.10	1.24	20.3	YES	NO	bd	bd	0.614
15	1234678-HpCDD	40.37	1.123e5	1.072e5	1.253	1.05	1.05	954.6	YES	NO	bd	bd	42.191
16	1234679-HPCDD	39.32	1.625e5	1.528e5	1.286	1.06	1.05	1478.1	YES	NO	bd	bb	59.021
17	OCDD	45.14	6.901e5	8.058e5	1.103	0.86	0.89	5459.5	YES	NO	bb	bd	361.326

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	26.12	1.196e3	1.375e3	0.933	0.87	0.77	8.8	YES	NO	db	dd	0.363
2	Total-tetrafurans	26.05	6.884e2	9.342e2	0.933	0.74	0.77	6.0	YES	NO	dd	dd	0.229
3	Total-tetrafurans	24.99	1.526e3	2.072e3	0.933	0.74	0.77	18.1	YES	NO	bb	bb	0.508
4	Total-tetrafurans	24.81	1.063e3	1.396e3	0.933	0.76	0.77	10.8	YES	NO	db	db	0.347
5	Total-tetrafurans	24.31	5.100e2	6.741e2	0.933	0.76	0.77	6.7	YES	NO	db	dd	0.167
6	23478-PeCDF	31.39	1.418e3	8.398e2	0.911	1.69	1.55	14.4	YES	NO	bb	bb	0.341
7	Total-pentafurans	31.25	8.143e2	5.525e2	0.866	1.47	1.55	8.9	YES	NO	db	db	0.211
8	Total-pentafurans	28.79	1.711e3	1.227e3	0.866	1.39	1.55	9.6	YES	NO	dd	dd	0.454
9	Total-pentafurans	28.62	2.093e3	1.315e3	0.866	1.59	1.55	17.7	YES	NO	bd	bd	0.527
10	Total-hexafurans	33.56	1.356e4	1.136e4	1.208	1.19	1.24	217.3	YES	NO	db	db	3.712
11	123468-HXCDF	33.36	4.040e3	3.424e3	1.197	1.18	1.24	69.6	YES	NO	bd	bd	1.104
12	234678-HxCDF	36.02	2.916e3	2.266e3	1.229	1.29	1.24	35.8	YES	NO	bb	bb	0.761
13	123678-HxCDF	35.15	1.693e3	1.213e3	1.248	1.40	1.24	26.3	YES	NO	MM	db	0.393
14	123478-HxCDF	35.01	4.525e3	3.550e3	1.182	1.27	1.24	71.6	YES	NO	bd	bd	1.210
15	Total-hexafurans	34.86	6.292e2	4.975e2	1.208	1.26	1.24	12.1	YES	NO	bb	bb	0.168
16	Total-hexafurans	34.39	1.745e4	1.396e4	1.208	1.25	1.24	290.5	YES	NO	bb	bb	4.679
17	Total-hexafurans	34.09	3.483e2	3.155e2	1.208	1.10	1.24	6.1	YES	NO	bb	bb	0.099
18	Total-heptafurans	39.53	5.958e4	5.938e4	1.185	1.00	1.05	897.9	YES	NO	bd	bb	19.884
19	Total-heptafurans	39.28	5.205e2	5.717e2	1.185	0.91	1.05	9.4	YES	NO	bb	bb	0.183
20	1234678-HpCDF	38.86	2.998e4	2.857e4	1.204	1.05	1.05	469.5	YES	NO	bb	bb	9.178
21	OCDF	45.38	5.242e4	6.045e4	1.186	0.87	0.89	709.3	YES	NO	bb	bd	25.341
22	1234789-HpCDF	41.12	2.206e3	2.007e3	1.165	1.10	1.05	26.5	YES	NO	bb	bb	0.753
23	Total-penta1	27.33	9.571e3	5.812e3		1.65	1.55	235.3	YES	NO	db	MM	2.191
24	2378-TCDD	26.55	1.006e3	1.476e3	1.236	0.68	0.77	12.0	YES	NO	bd	bb	0.374
25	Total-tetradioxins	25.73	6.567e2	7.634e2	1.099	0.86	0.77	10.4	YES	NO	bb	bb	0.241
26	Total-tetradioxins	25.16	6.049e2	7.678e2	1.099	0.79	0.77	8.9	YES	NO	bb	bb	0.233
27	Total-tetradioxins	24.67	6.660e2	9.984e2	1.099	0.67	0.77	9.7	YES	NO	bb	bb	0.282
28	1368-TCDD	23.66	7.577e2	8.654e2	1.084	0.88	0.77	10.4	YES	NO	bb	bb	0.279
29	Total-pentadioxins	30.27	1.283e3	8.781e2	1.392	1.46	1.55	13.3	YES	NO	bd	bb	0.339
30	Total-pentadioxins	28.98	2.439e3	1.373e3	1.392	1.78	1.55	19.4	YES	NO	db	bb	0.598
31	Total-hexadioxins	35.36	1.638e3	1.297e3	1.007	1.26	1.24	17.9	YES	NO	db	db	0.522
32	Total-hexadioxins	35.25	1.436e4	1.163e4	1.007	1.23	1.24	112.7	YES	NO	bd	bd	4.619
33	124679-HXCDD	34.12	1.145e4	1.002e4	1.033	1.14	1.24	134.4	YES	NO	bb	bb	3.801
34	123789-HxCDD	36.63	3.368e3	2.788e3	0.985	1.21	1.24	43.6	YES	NO	bb	bb	1.117
35	Total-hexadioxins	36.42	7.987e2	5.873e2	1.007	1.36	1.24	9.4	YES	NO	db	bb	0.246
36	123678-HxCDD	36.25	4.740e3	3.607e3	1.021	1.31	1.24	56.4	YES	NO	dd	db	1.431
37	123478-HxCDD	36.14	1.740e3	1.575e3	0.987	1.10	1.24	20.3	YES	NO	bd	bd	0.614

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1234678-HpCDD	40.37	1.123e5	1.072e5	1.253	1.05	1.05	954.6	YES	NO	bd	bd	42.191
39	1234679-HPCDD	39.32	1.625e5	1.528e5	1.286	1.06	1.05	1478.1	YES	NO	bd	bb	59.021
40	OCDD	45.14	6.901e5	8.058e5	1.103	0.86	0.89	5459.5	YES	NO	bb	bd	361.326

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.10	7.728e5					20.7	YES		db		
2	FUNCTION1 PFK	21.89	8.581e6					27.9	YES		bd		
3	FUNCTION1 PFK	21.38	3.355e6					32.3	YES		bb		
4	FUNCTION1 PFK	27.41	3.098e5					3.7	YES		bb		
5	FUNCTION1 PFK	24.05	1.102e6					2.8	NO		bb		
6	FUNCTION1 PFK	23.45	7.102e5					5.4	YES		bb		
7	FUNCTION1 PFK	22.37	1.374e6					11.3	YES		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.50	3.709e4					3.3	YES		bb		0.000
2	FUNCTION2 PFK	28.59	1.041e6					2.7	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.35	6.603e5					16.0	YES		db		0.000
2	FUNCTION3 PFK	37.19	1.645e6					25.7	YES		bd		0.000
3	FUNCTION3 PFK	36.87	2.694e6					35.8	YES		bb		0.000
4	FUNCTION3 PFK	36.10	1.348e5					5.5	YES		bb		0.000
5	FUNCTION3 PFK	35.90	4.563e5					8.6	YES		bb		0.000
6	FUNCTION3 PFK	35.33	1.998e4					2.6	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.66	1.788e7					64.0	YES		bb		

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.20	1.598e5					25.0	YES		dd		
2	FUNCTION5 PFK	44.16	1.386e5					27.1	YES		dd		
3	FUNCTION5 PFK	44.09	4.566e5					29.9	YES		dd		
4	FUNCTION5 PFK	44.00	5.549e5					32.4	YES		dd		
5	FUNCTION5 PFK	43.89	2.276e5					35.6	YES		dd		
6	FUNCTION5 PFK	43.72	1.516e6					41.2	YES		dd		
7	FUNCTION5 PFK	43.56	3.555e5					46.2	YES		dd		
8	FUNCTION5 PFK	43.54	2.455e5					47.0	YES		dd		
9	FUNCTION5 PFK	43.47	4.367e5					48.2	YES		dd		
10	FUNCTION5 PFK	43.44	2.576e5					49.2	YES		dd		
11	FUNCTION5 PFK	43.39	3.285e5					50.5	YES		dd		
12	FUNCTION5 PFK	43.28	1.491e6					54.5	YES		dd		
13	FUNCTION5 PFK	43.16	2.961e5					57.1	YES		dd		
14	FUNCTION5 PFK	43.12	2.994e5					57.5	YES		dd		
15	FUNCTION5 PFK	43.06	7.026e5					60.4	YES		bd		
16	FUNCTION5 PFK	45.80	2.200e3					0.7	NO		bb		
17	FUNCTION5 PFK	45.69	2.145e3					0.7	NO		bb		
18	FUNCTION5 PFK	45.55	4.685e3					1.4	NO		bb		
19	FUNCTION5 PFK	45.42	7.165e3					2.0	NO		db		
20	FUNCTION5 PFK	45.37	1.003e4					2.1	NO		bd		
21	FUNCTION5 PFK	45.28	6.259e3					1.4	NO		bb		
22	FUNCTION5 PFK	45.18	4.679e2					0.4	NO		bb		
23	FUNCTION5 PFK	45.06	4.958e3					1.1	NO		bb		
24	FUNCTION5 PFK	44.94	8.155e3					1.8	NO		db		
25	FUNCTION5 PFK	44.91	1.943e4					1.9	NO		dd		
26	FUNCTION5 PFK	44.83	2.067e4					4.8	YES		dd		
27	FUNCTION5 PFK	44.76	9.950e4					7.7	YES		dd		
28	FUNCTION5 PFK	44.68	7.907e4					11.0	YES		dd		
29	FUNCTION5 PFK	44.59	1.602e5					13.6	YES		dd		
30	FUNCTION5 PFK	44.51	2.419e5					16.4	YES		dd		
31	FUNCTION5 PFK	44.31	6.598e5					22.1	YES		dd		
32	FUNCTION5 PFK	46.47	9.260e3					1.3	NO		bb		
33	FUNCTION5 PFK	46.37	3.456e3					1.0	NO		bb		
34	FUNCTION5 PFK	46.32	3.271e3					1.1	NO		db		
35	FUNCTION5 PFK	46.28	1.380e4					2.0	NO		bd		
36	FUNCTION5 PFK	46.21	7.938e3					2.1	NO		db		
37	FUNCTION5 PFK	46.16	8.543e3					2.1	NO		bd		

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION5 PFK	46.02	2.847e3					1.0	NO		bb		
39	FUNCTION5 PFK	45.97	1.831e3					0.7	NO		bb		
40	FUNCTION5 PFK	45.93	7.230e3					1.1	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.62	1.446e2					4.1	YES		bb		0.000
2	FUNCTION1 HXCD...	26.05	4.245e2					8.9	YES		bb		0.000
3	FUNCTION1 HXCD...	25.50	8.313e1					1.6	NO		db		0.000
4	FUNCTION1 HXCD...	25.31	7.282e1					1.7	NO		bd		0.000
5	FUNCTION1 HXCD...	23.51	1.286e2					3.2	YES		bb		0.000
6	FUNCTION1 HXCD...	23.08	7.378e1					1.3	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	23.51	4.051e2					10.1	YES		bb		0.000
2	FUNCTION1 HPCD...	23.19	8.616e1					2.8	NO		bb		0.000
3	FUNCTION1 HPCD...	22.19	2.619e3					65.1	YES		bb		0.000
4	FUNCTION1 HPCD...	21.41	1.643e2					4.3	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.63	8.847e1					1.7	NO		bb		0.000
2	FUNCTION2 HPCD...	30.97	7.777e1					1.4	NO		bb		0.000
3	FUNCTION2 HPCD...	30.84	9.909e1					1.6	NO		bb		0.000
4	FUNCTION2 HPCD...	30.32	1.205e2					2.3	NO		db		0.000
5	FUNCTION2 HPCD...	30.22	1.091e2					1.6	NO		dd		0.000
6	FUNCTION2 HPCD...	30.13	7.303e1					1.9	NO		bd		0.000
7	FUNCTION2 HPCD...	29.11	7.635e1					1.8	NO		db		0.000
8	FUNCTION2 HPCD...	28.99	8.965e1					0.9	NO		bd		0.000

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ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	33.71	8.997e1					3.0	NO		bd		0.000
2	FUNCTION3 OCDPE	36.61	8.746e1					2.9	NO		bb		0.000
3	FUNCTION3 OCDPE	34.49	1.070e2					2.4	NO		db		0.000
4	FUNCTION3 OCDPE	34.43	7.270e1					2.0	NO		dd		0.000
5	FUNCTION3 OCDPE	34.32	9.411e1					2.4	NO		bd		0.000
6	FUNCTION3 OCDPE	33.85	1.193e2					2.6	NO		db		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.33	1.812e2					4.6	YES		bb		0.000
2	FUNCTION4 NCDPE	38.63	8.272e1					3.4	YES		db		0.000
3	FUNCTION4 NCDPE	38.52	8.279e3					178.7	YES		bd		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.17	1.044e2					2.0	NO		bb		0.000

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Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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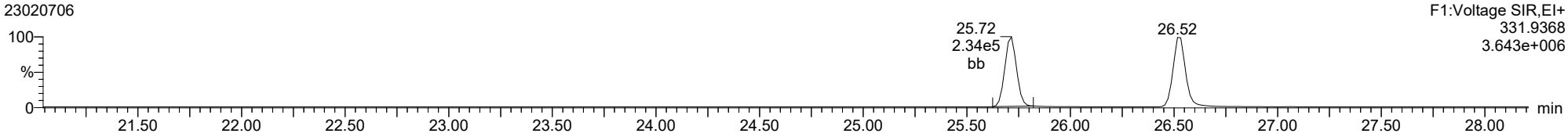
13C-1234-TCDD



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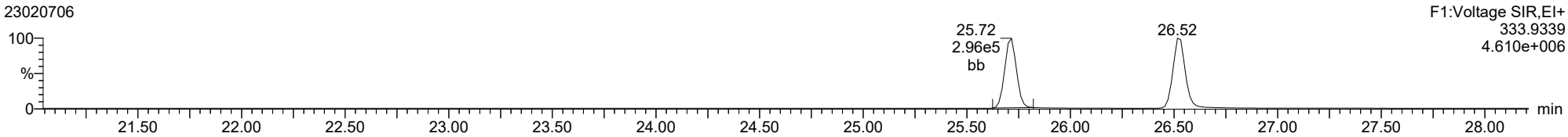

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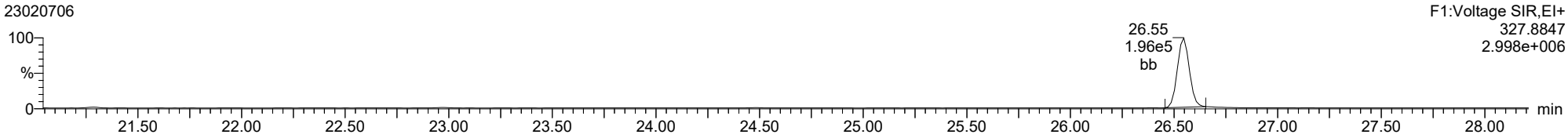

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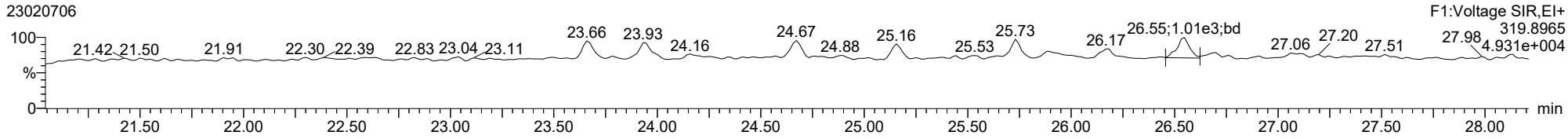
2378-TCDD



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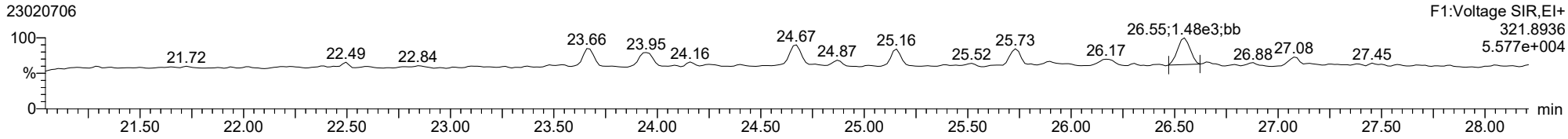

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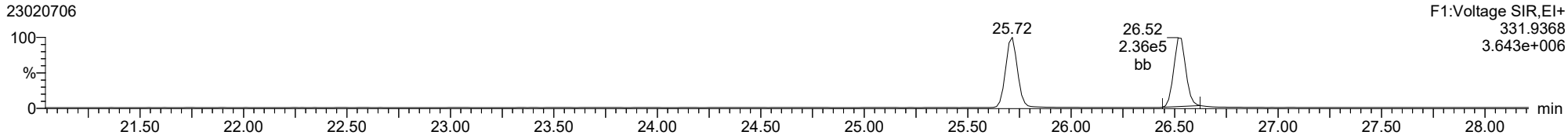

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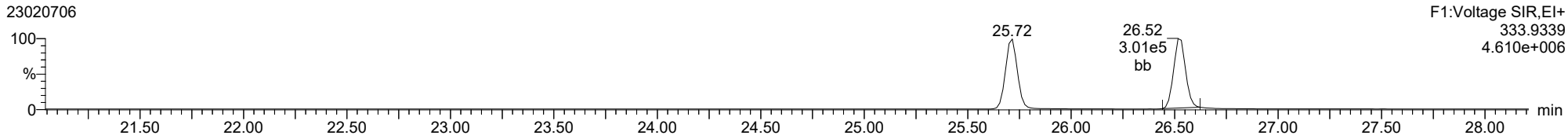
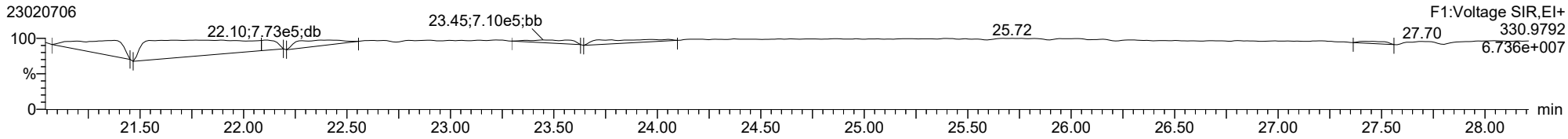


FUNCTION1 PFK



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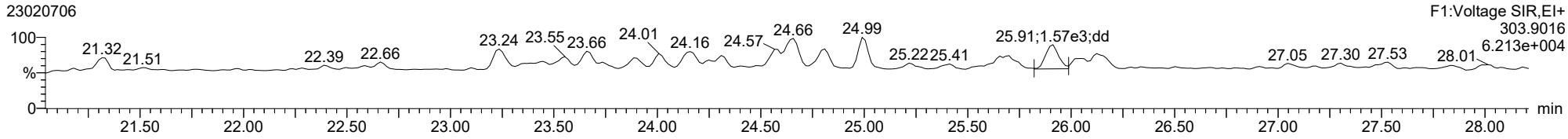
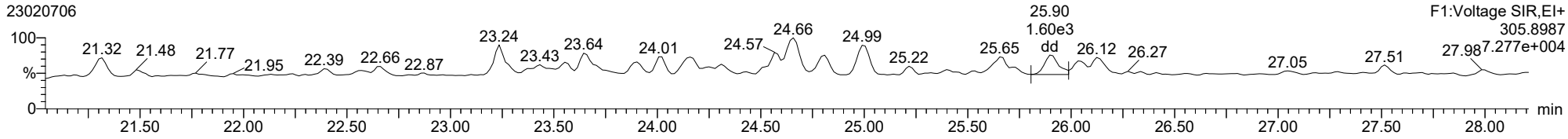
2378-TCDF



2378-TCDF



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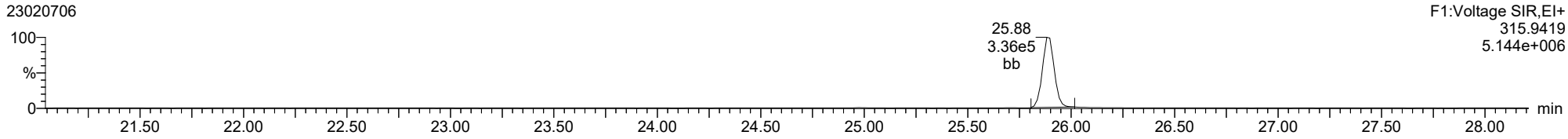
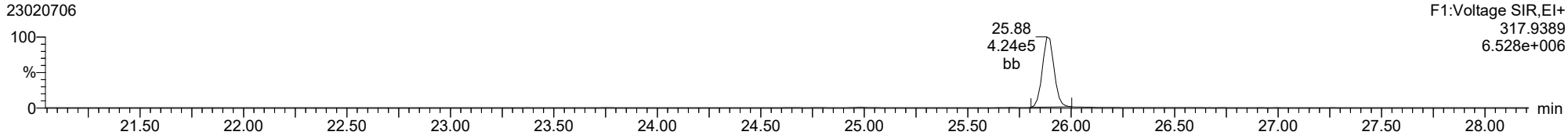


13C-2378-TCDF



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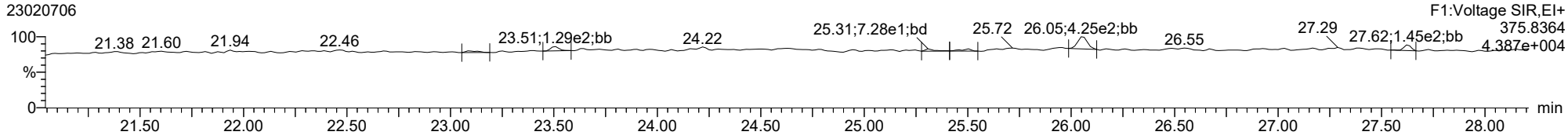

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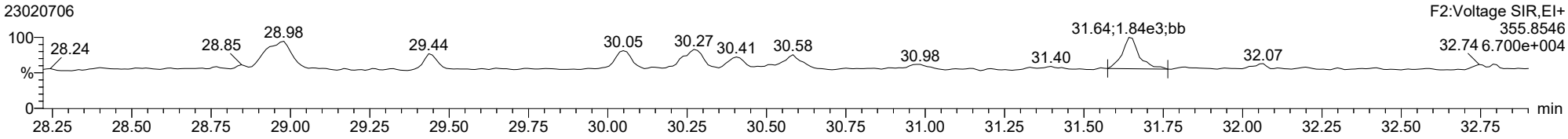
12378-PeCDD



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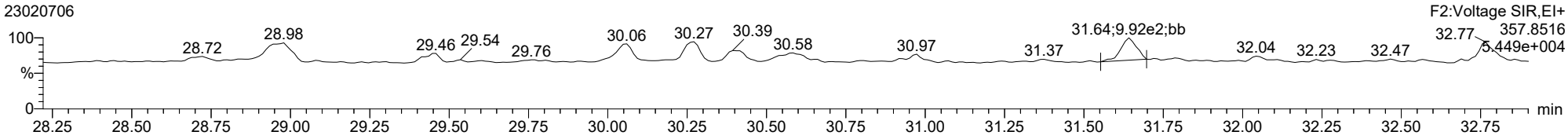

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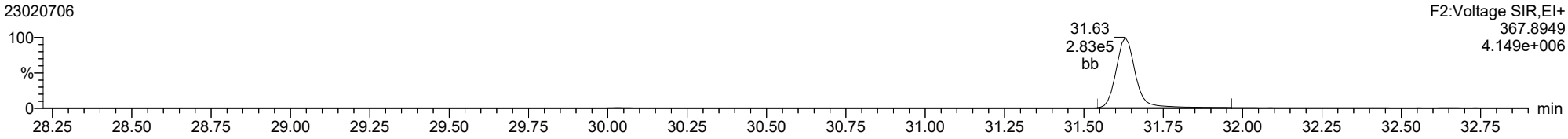

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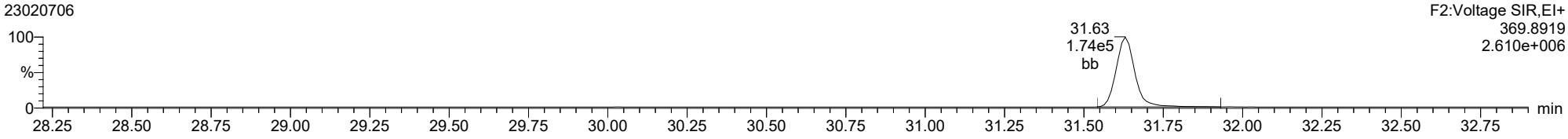

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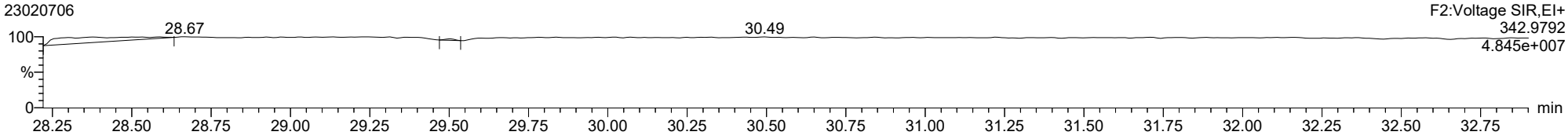

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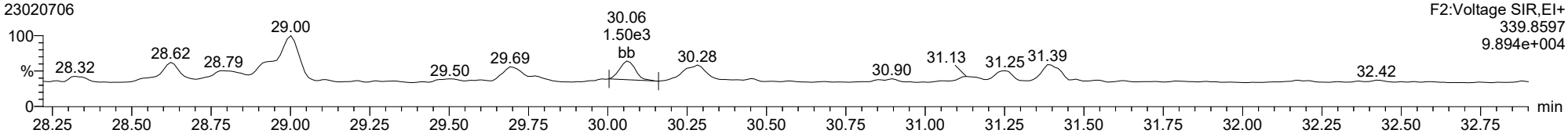

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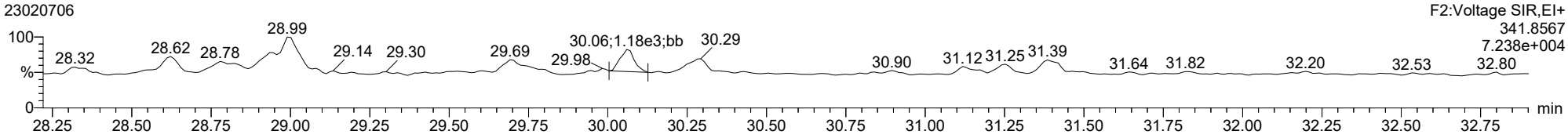

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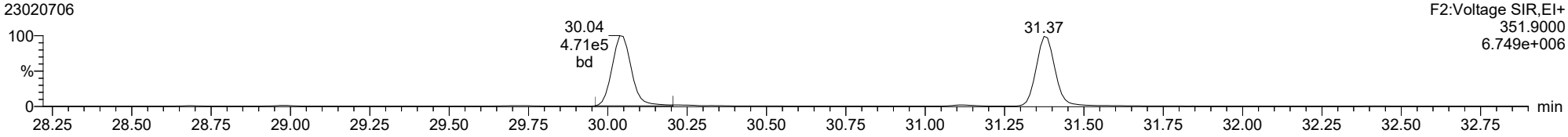

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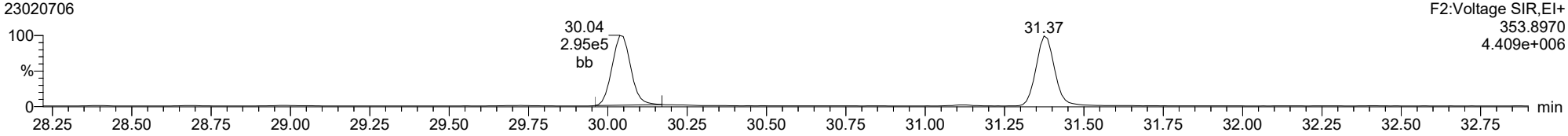

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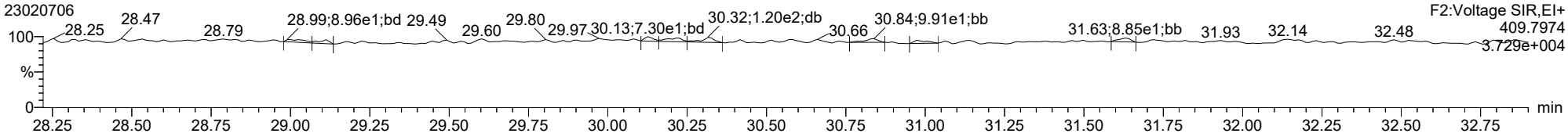

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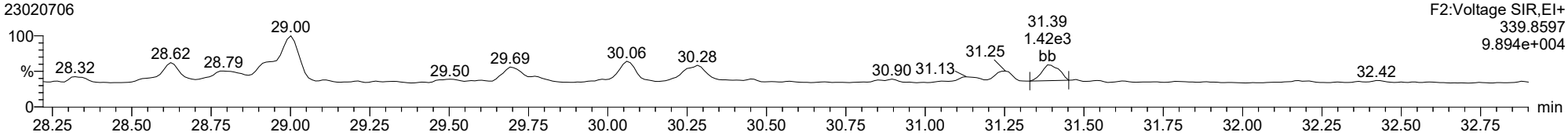

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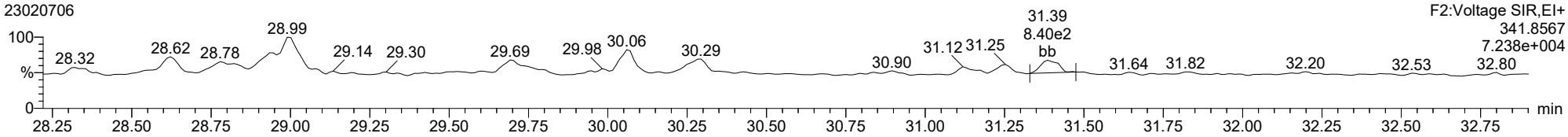

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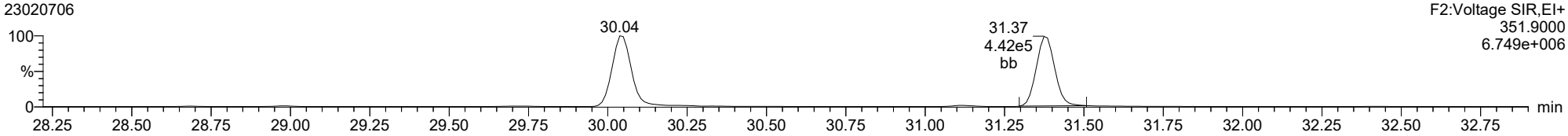

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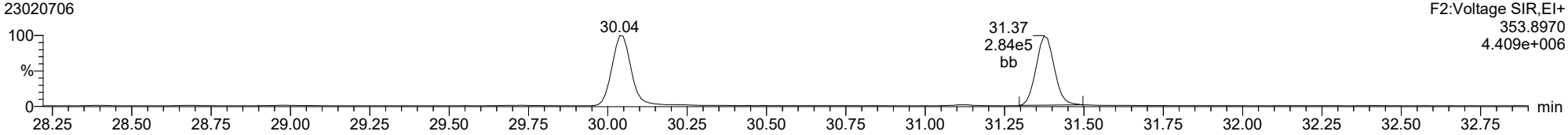

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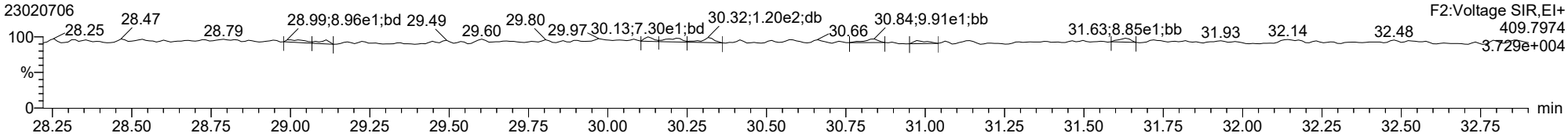

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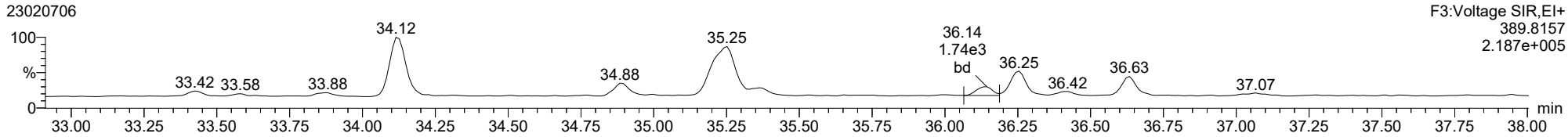

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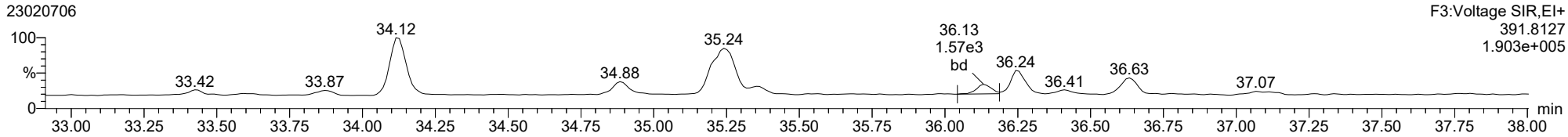

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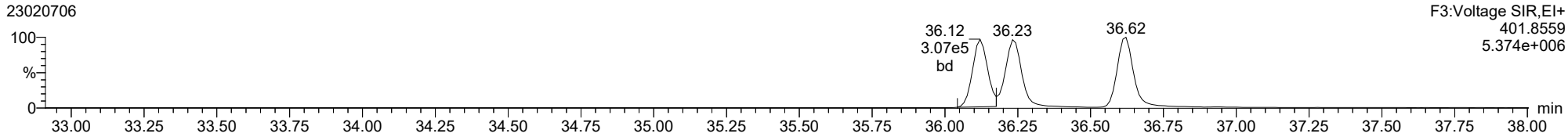

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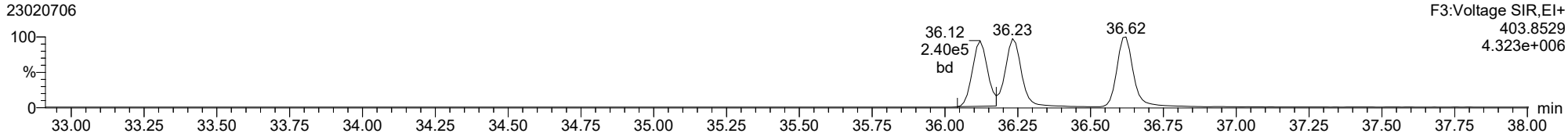

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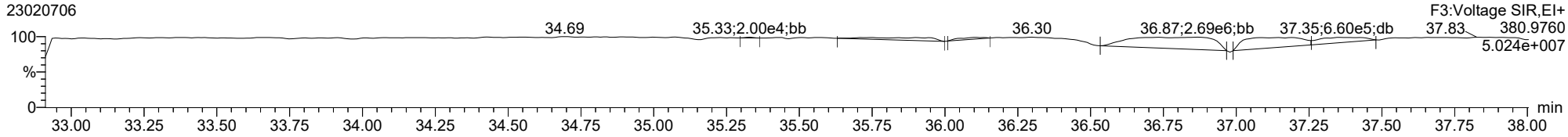

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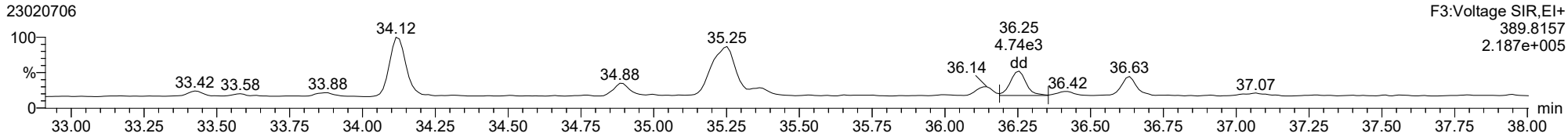

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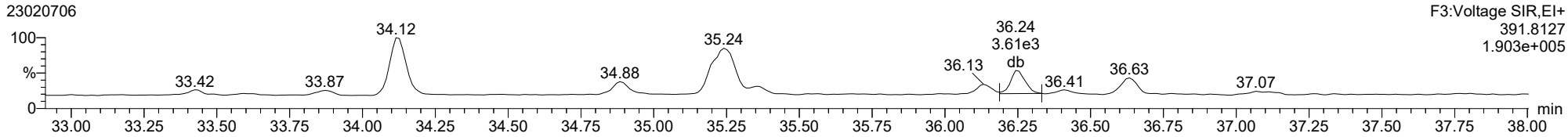

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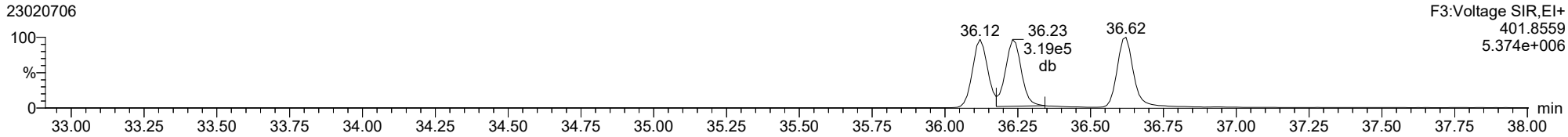

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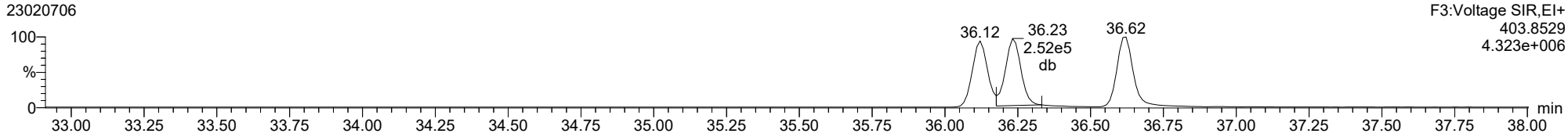

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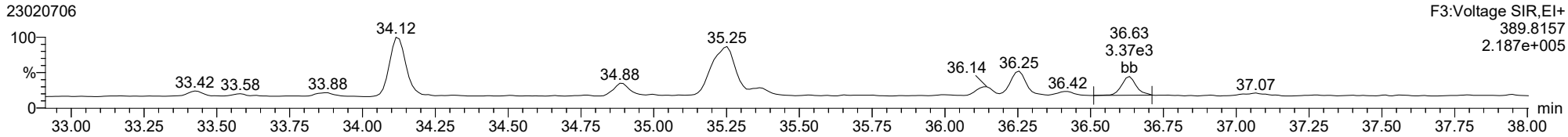

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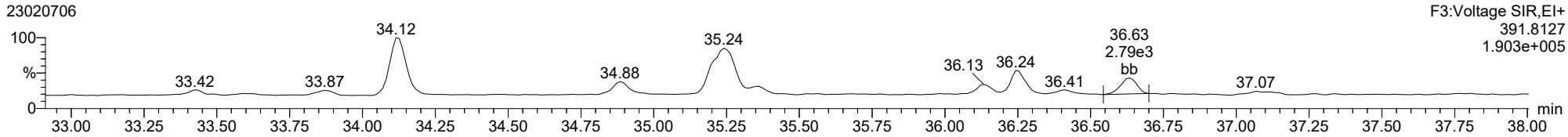

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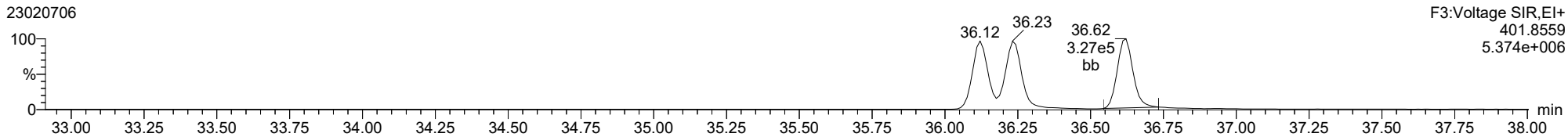

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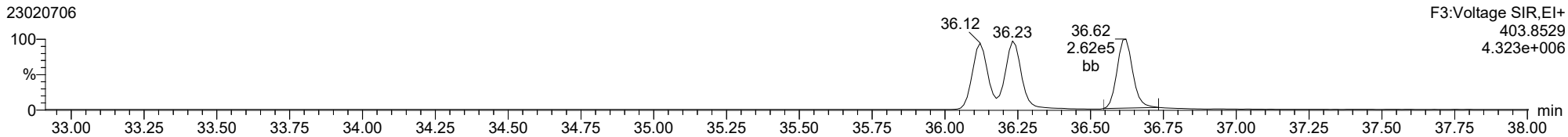

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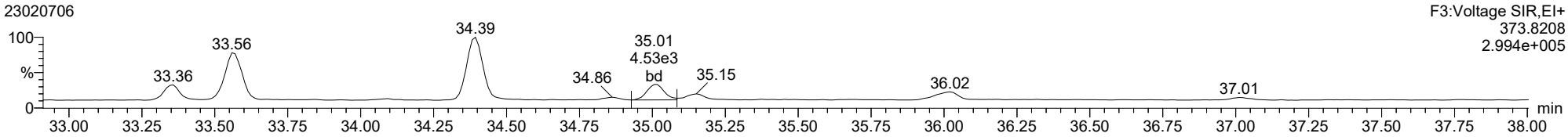

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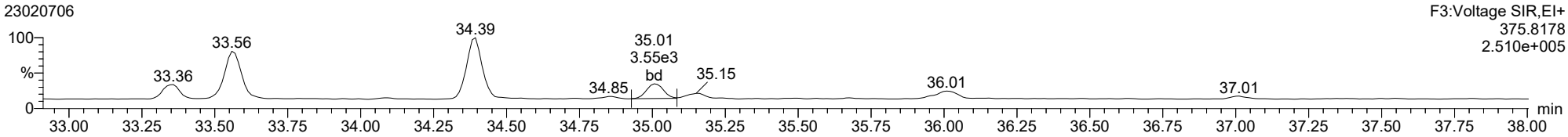

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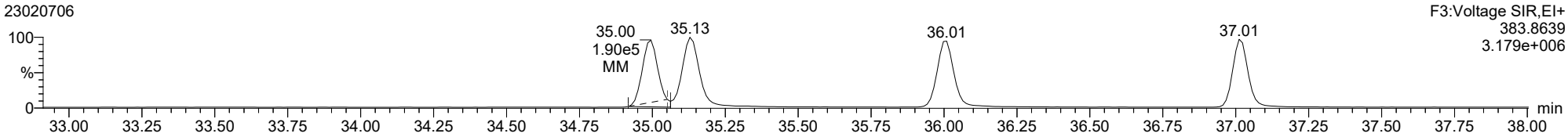

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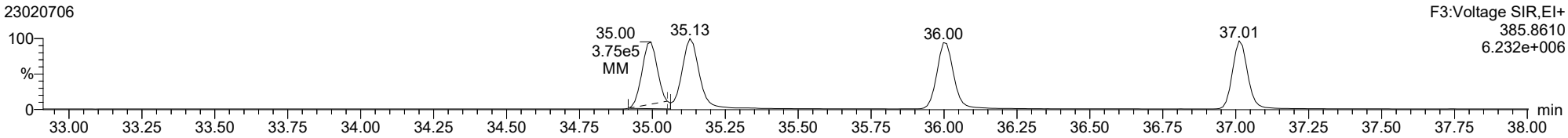

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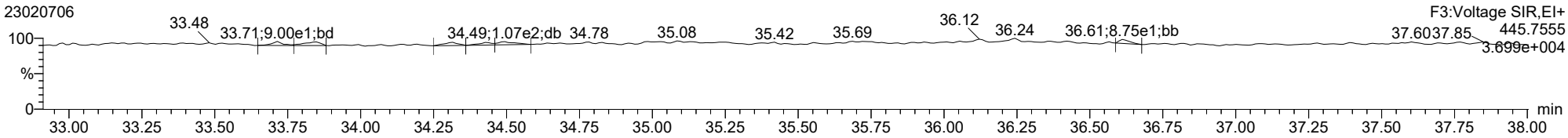

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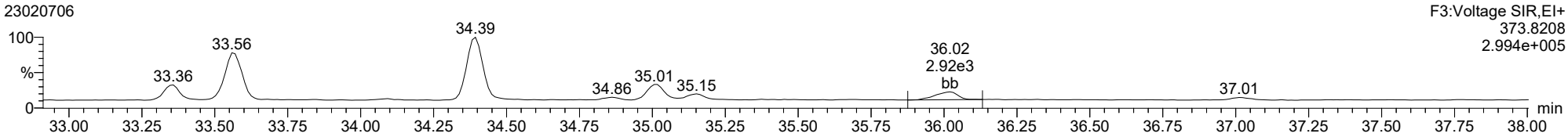
234678-HxCDF



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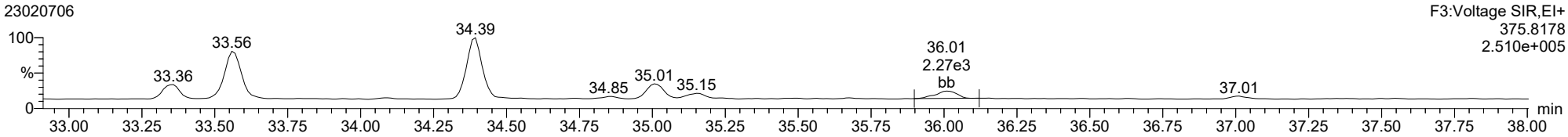

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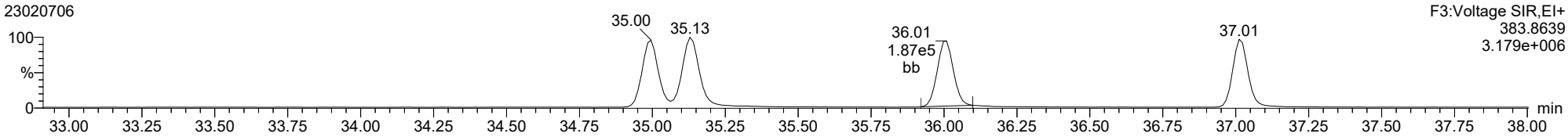

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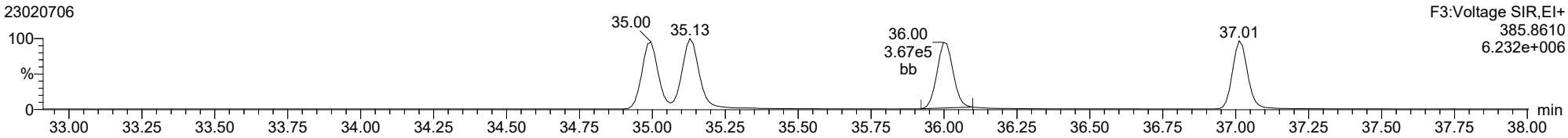

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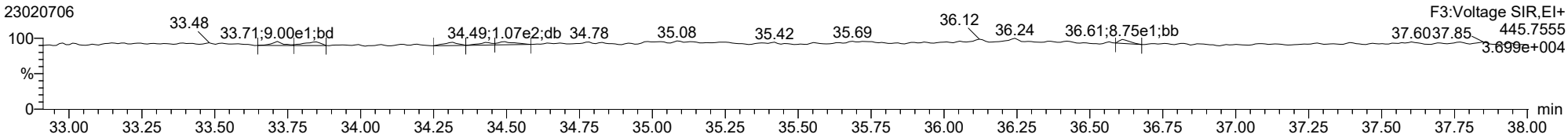

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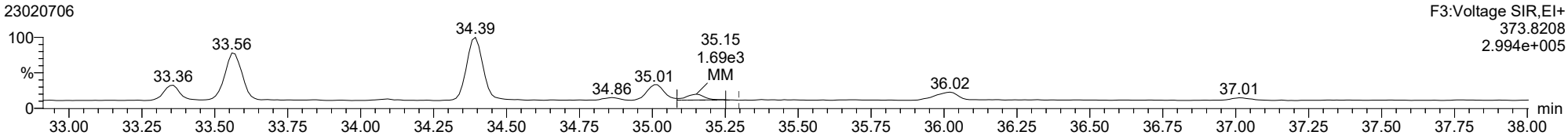

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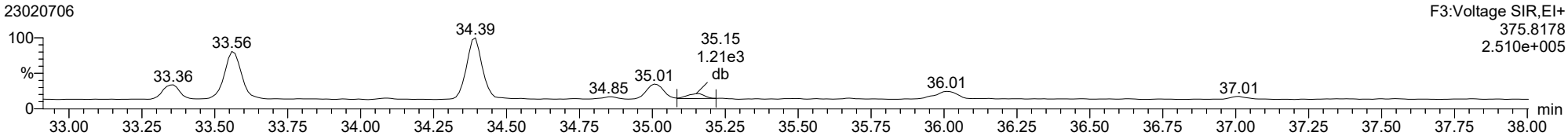

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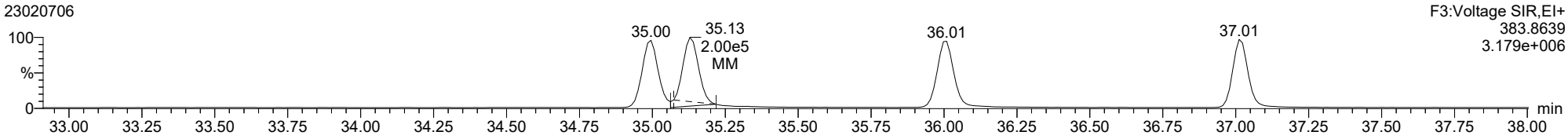

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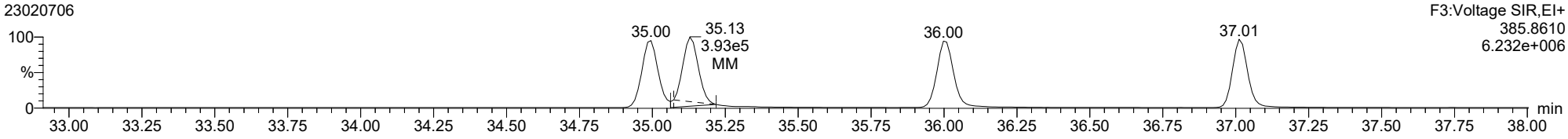

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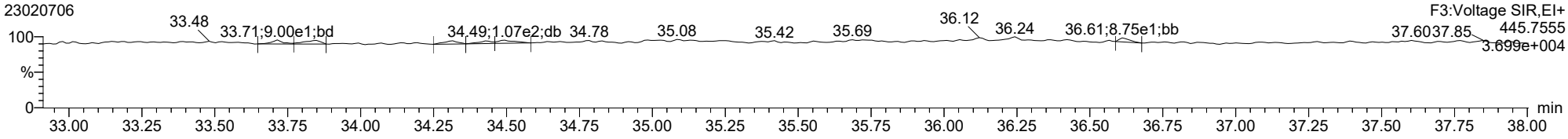

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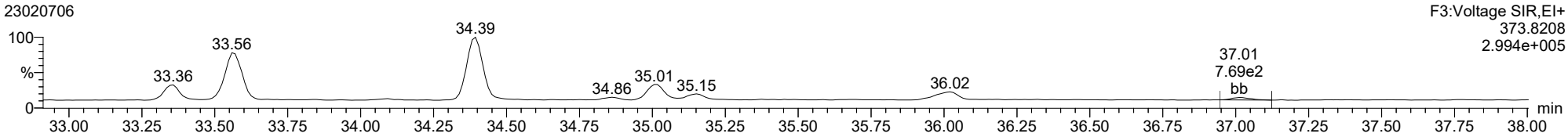

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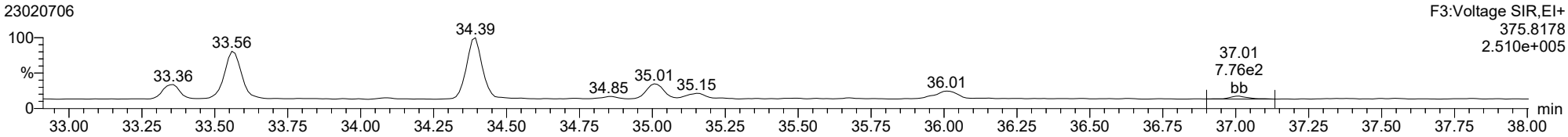

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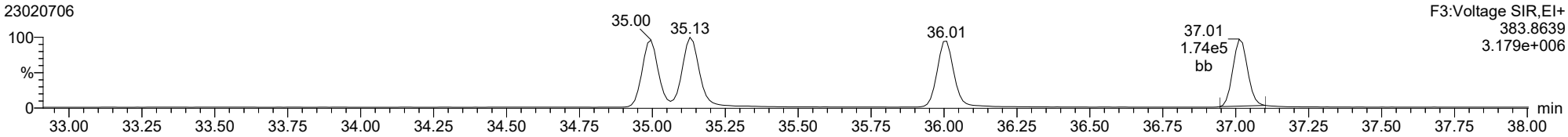

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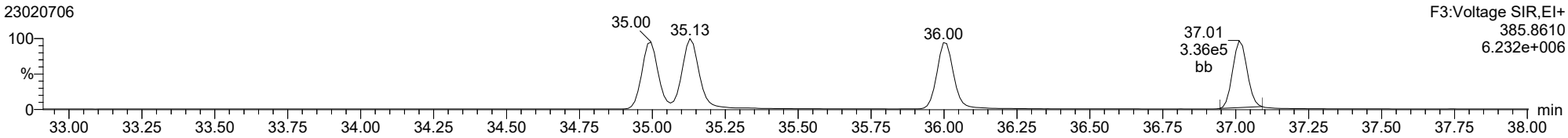
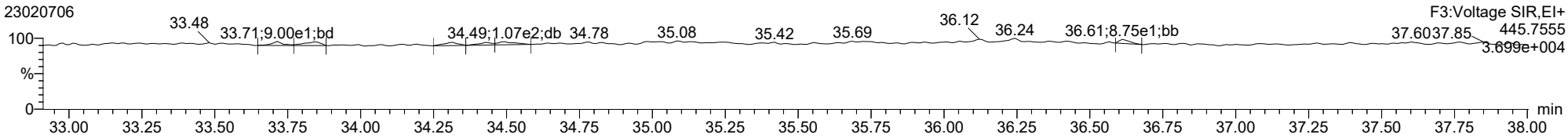
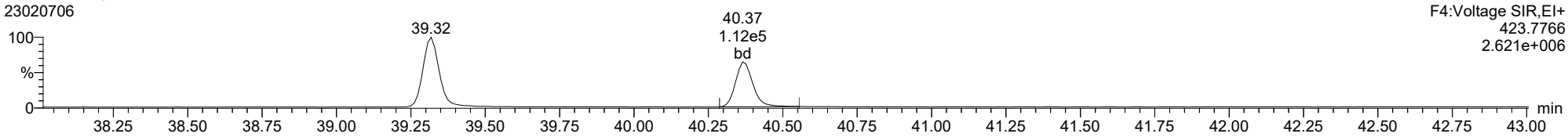


FUNCTION3 OCDPE



ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD



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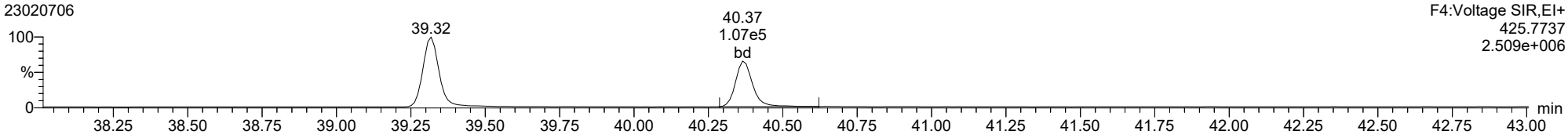

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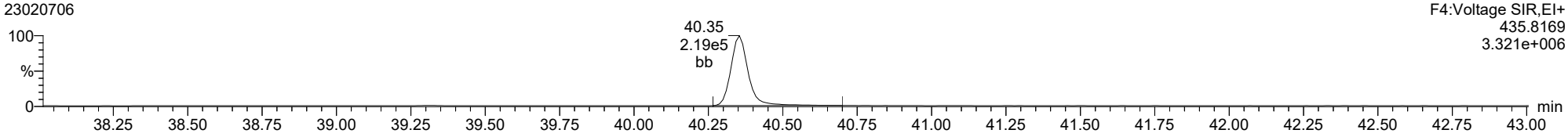

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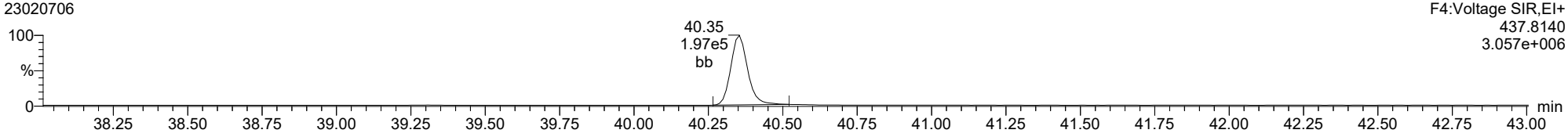
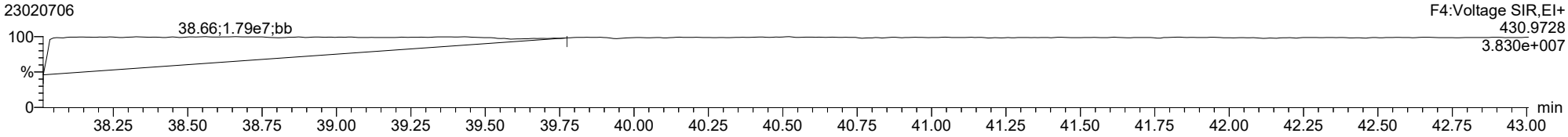


FUNCTION4 PFK



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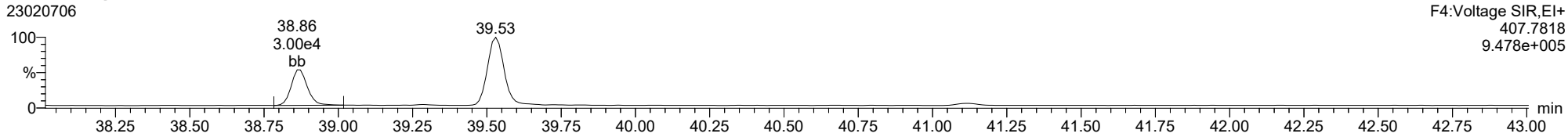

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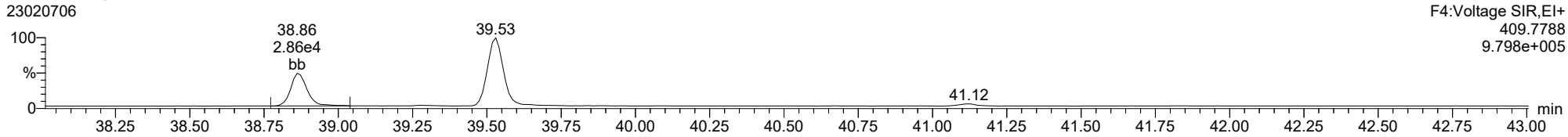

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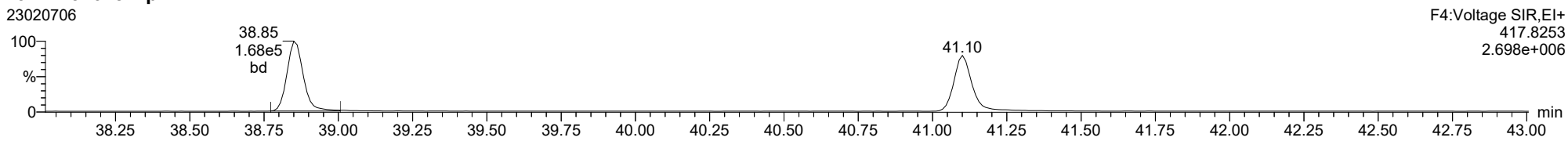

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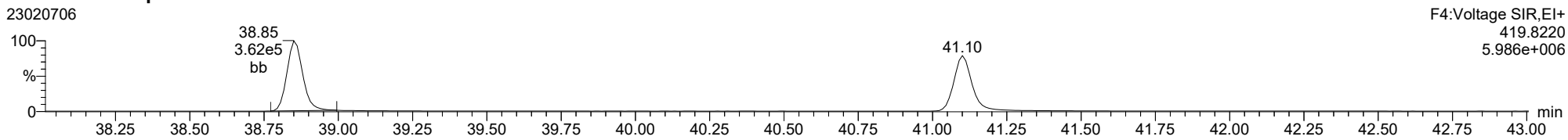

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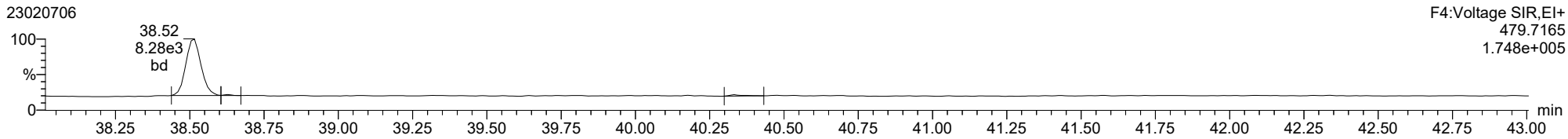

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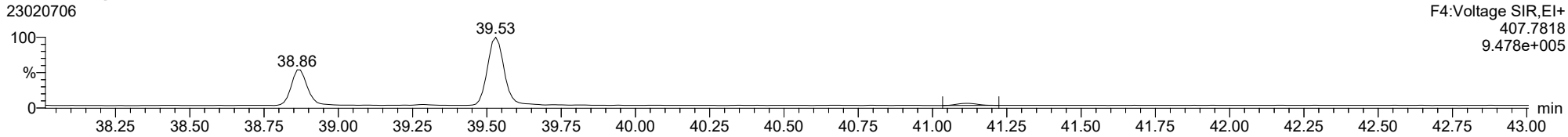

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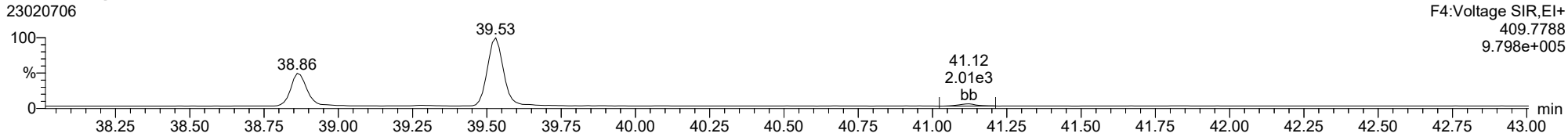

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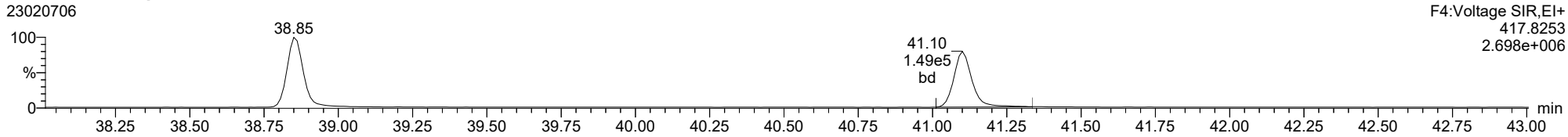

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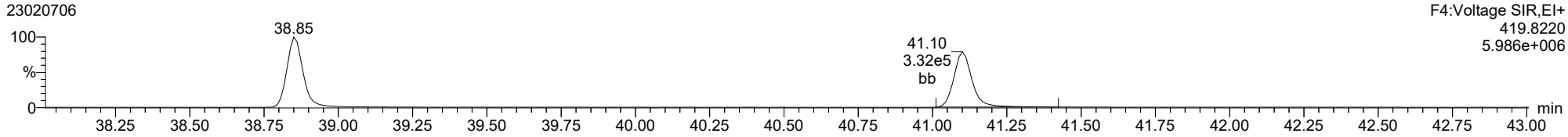

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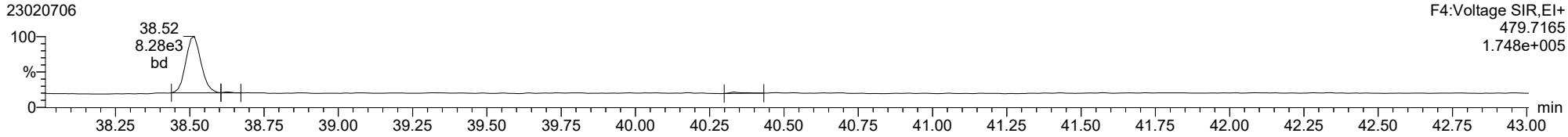

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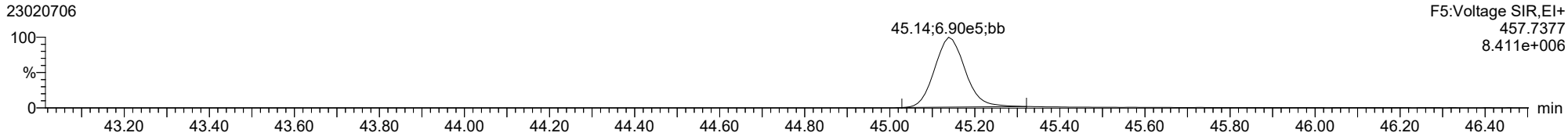

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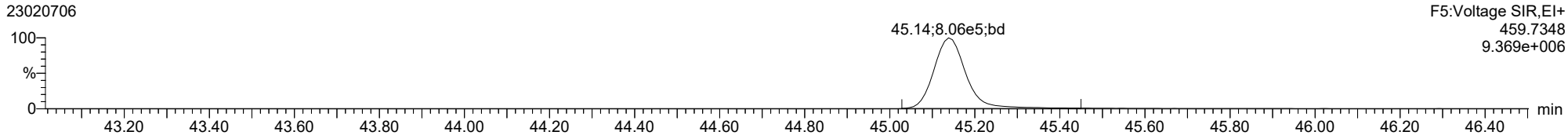

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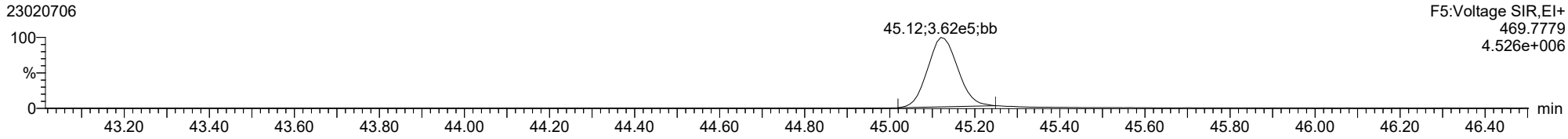

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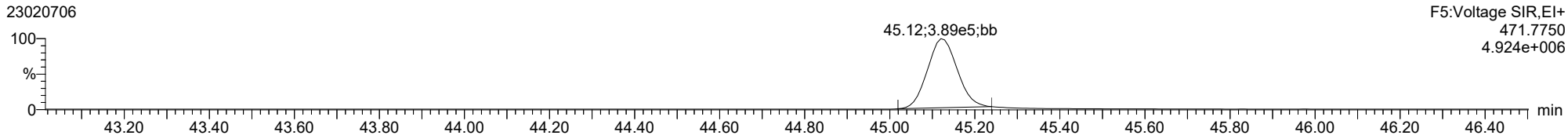

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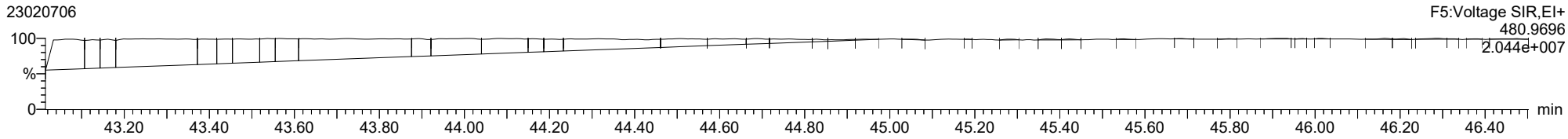

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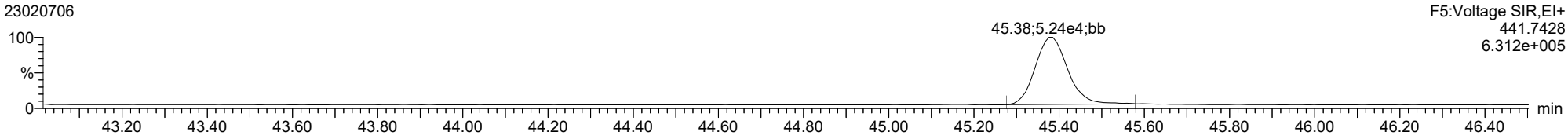

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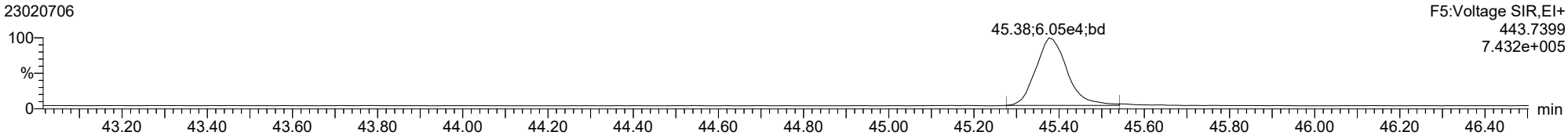

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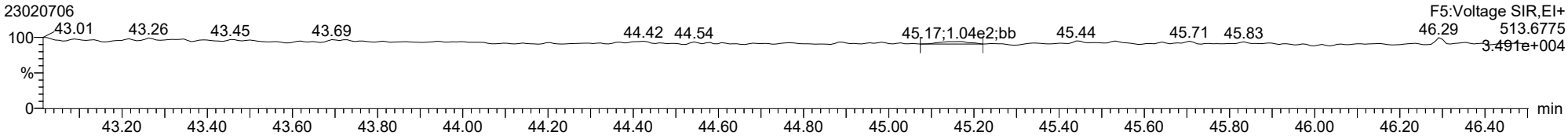
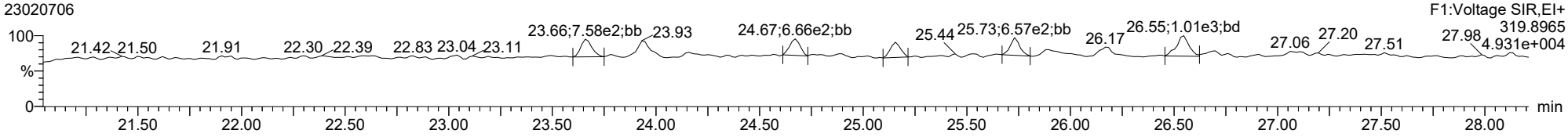
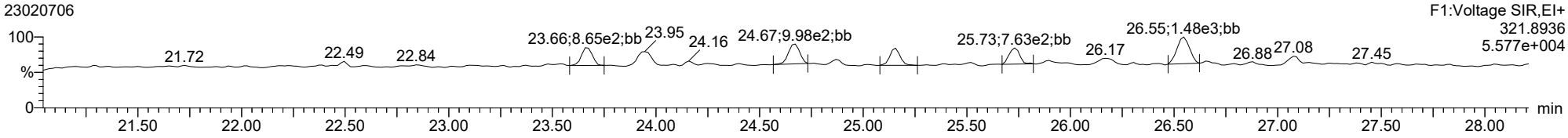


ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

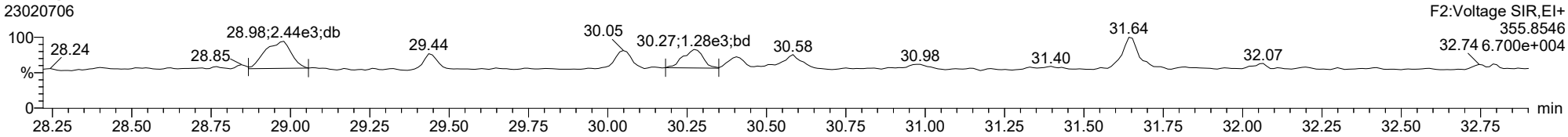
Total-tetradioxins



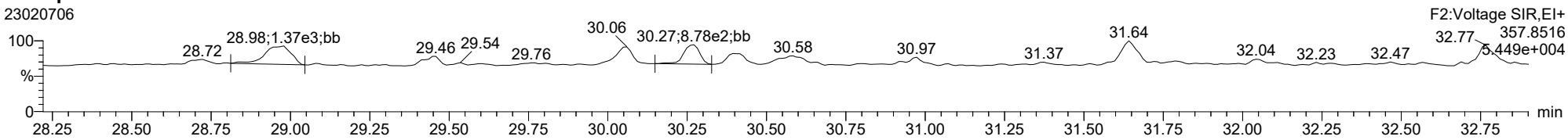
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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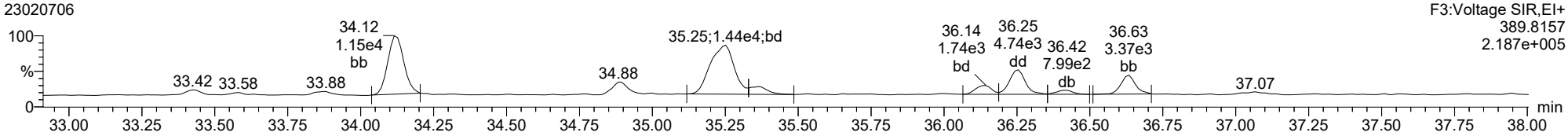
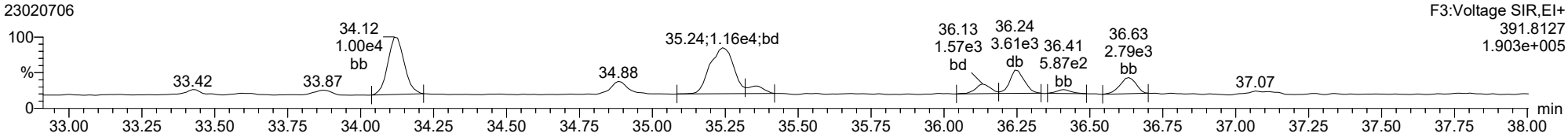


Total-hexadioxins



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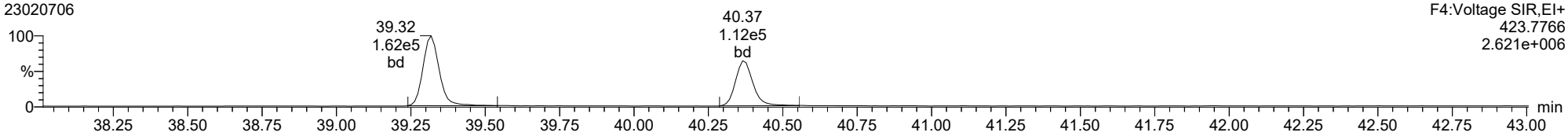

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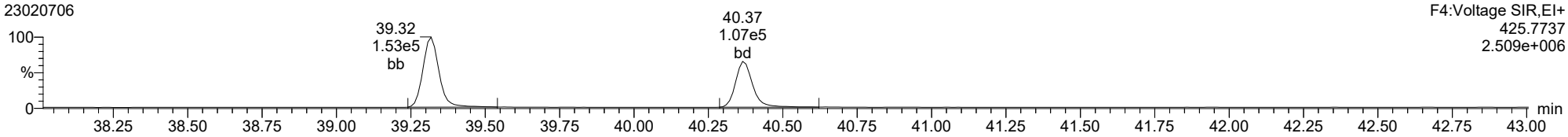

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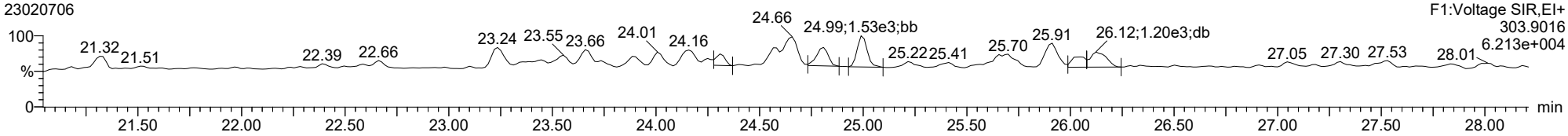
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:29:11 Pacific Standard Time

ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



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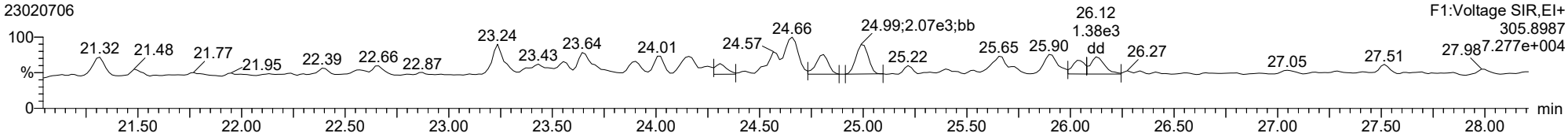

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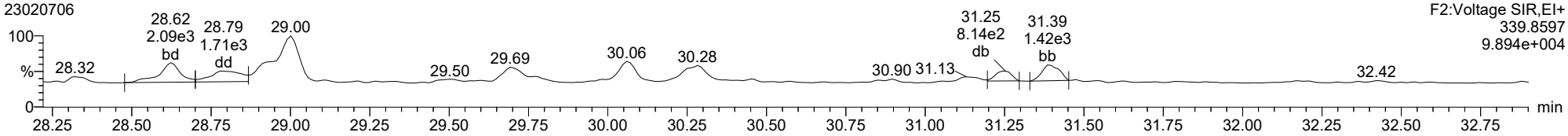

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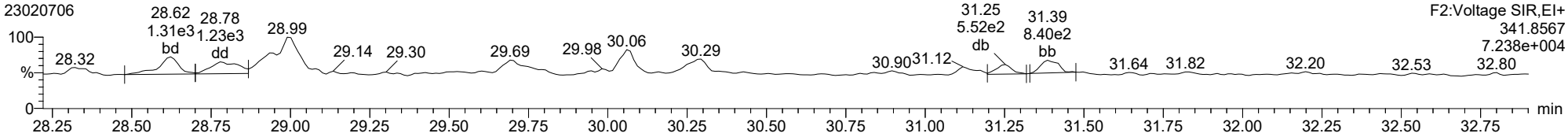

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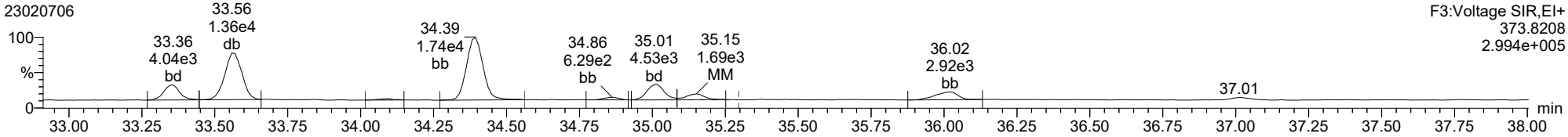
Total-hexafurans



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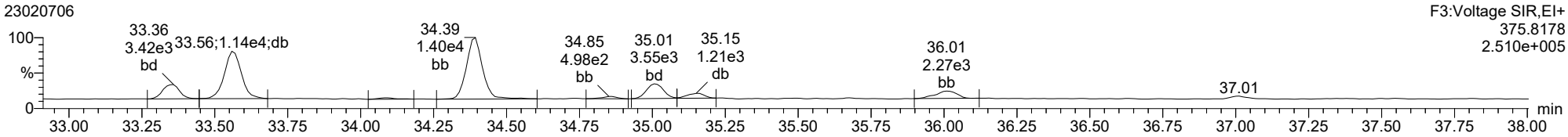
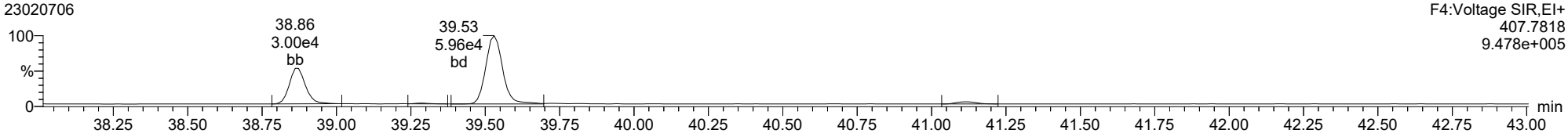


Total-heptafurans



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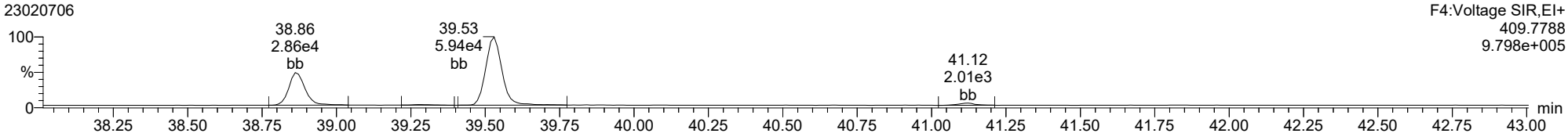

INITIAL CALIBRATION DATA
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00010	Instrument:	AUTOSPEC01
Calibration Date:	02/01/2023	Column (1):	RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,3,7,8-TCDF			0.5	0.877532	2	0.8642547	10	0.9061172	40	0.8618622	200	0.870536
2,3,7,8-TCDD			0.5	1.33035	2	1.248621	10	1.137397	40	1.237049	200	1.228383
1,2,3,7,8-PeCDF	0.5	0.8845981	2.5	0.8294231	10	0.8519399	50	0.8286668	200	0.8328816	1000	0.8404146
2,3,4,7,8-PeCDF	0.5	0.9010853	2.5	0.8749834	10	0.9503804	50	0.9063511	200	0.9081631	1000	0.9261047
1,2,3,7,8-PeCDD	0.5	1.076975	2.5	1.101718	10	1.081557	50	1.083093	200	1.079692	1000	1.097073
1,2,3,4,7,8-HxCDF	0.5	1.197722	2.5	1.179021	10	1.141778	50	1.167137	200	1.188102	1000	1.216357
1,2,3,6,7,8-HxCDF	0.5	1.253033	2.5	1.219645	10	1.232591	50	1.230384	200	1.272527	1000	1.280106
2,3,4,6,7,8-HxCDF	0.5	1.220454	2.5	1.190231	10	1.230824	50	1.241416	200	1.24972	1000	1.240458
1,2,3,7,8,9-HxCDF	0.5	1.289076	2.5	1.125812	10	1.1524	50	1.182788	200	1.184457	1000	1.18469
1,2,3,4,7,8-HxCDD	0.5	0.980203	2.5	0.9572147	10	0.9836815	50	0.9739271	200	1.007401	1000	1.019376
1,2,3,6,7,8-HxCDD	0.5	1.134416	2.5	1.030295	10	0.9857061	50	1.001378	200	0.9828882	1000	0.9896475
1,2,3,7,8,9-HxCDD	0.5	1.002595	2.5	0.9852727	10	0.9574018	50	0.9845218	200	0.9780696	1000	1.005007
1,2,3,4,6,7,8-HpCDF	0.5	1.324418	2.5	1.241402	10	1.191769	50	1.137863	200	1.167606	1000	1.161655
1,2,3,4,7,8,9-HpCDF	0.5	1.241104	2.5	1.123881	10	1.176079	50	1.125517	200	1.167259	1000	1.157988
1,2,3,4,6,7,8-HpCDD	0.5	1.539399	2.5	1.221931	10	1.205401	50	1.160679	200	1.191041	1000	1.196962
OCDF	1	1.504532	5	1.206799	20	1.118843	100	1.047747	400	1.115678	2000	1.123986
OCDD			5	1.311834	20	1.098771	100	1.020503	400	1.035617	2000	1.04661
13C12-2,3,7,8-TCDF	100	1.794277	100	1.759625	100	1.739873	100	1.673566	100	1.790703	100	1.850313
13C12-2,3,7,8-TCDD	100	1.096674	100	1.073836	100	1.076512	100	1.133427	100	1.068055	100	1.169179
13C12-1,2,3,7,8-PeCDF	100	1.498324	100	1.483018	100	1.508724	100	1.460163	100	1.478051	100	1.734472
13C12-2,3,4,7,8-PeCDF	100	1.43808	100	1.438214	100	1.422382	100	1.41533	100	1.419969	100	1.663731
13C12-1,2,3,7,8-PeCDD	100	0.8950759	100	0.9011154	100	0.8899914	100	0.8624621	100	0.887379	100	1.048887
13C12-1,2,3,4,7,8-HxCDF	100	1.054544	100	1.077759	100	1.075116	100	1.061315	100	1.049772	100	1.003461
13C12-1,2,3,6,7,8-HxCDF	100	1.068197	100	1.101907	100	1.090557	100	1.088609	100	1.088766	100	1.041682
13C12-2,3,4,6,7,8-HxCDF	100	0.9969267	100	1.031453	100	1.020521	100	1.007653	100	1.020588	100	1.008816
13C12-1,2,3,7,8,9-HxCDF	100	0.9015813	100	0.9303539	100	0.9398705	100	0.9240461	100	0.9405347	100	0.9312132
13C12-1,2,3,4,7,8-HxCDD	100	0.9319648	100	0.9598064	100	0.9330427	100	0.9375516	100	0.9212584	100	0.9139779
13C12-1,2,3,6,7,8-HxCDD	100	0.9536719	100	0.9762285	100	0.9776812	100	0.9576787	100	0.9642386	100	0.9582641

INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00010	Instrument:	AUTOSPEC01
Calibration Date:	02/01/2023	Column (1):	RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
13C12-1,2,3,4,6,7,8-HpCDF	100	1.009495	100	1.017629	100	1.046802	100	1.034238	100	1.053933	100	1.054435
13C12-1,2,3,4,7,8,9-HpCDF	100	0.8702856	100	0.8813287	100	0.9193412	100	0.9336903	100	0.9100344	100	0.9149429
13C12-1,2,3,4,6,7,8-HpCDD	100	0.7540434	100	0.7706109	100	0.7896711	100	0.7862201	100	0.7996856	100	0.7916329
13C12-OCDD	200	0.7447514	200	0.7401513	200	0.7909367	200	0.7980945	200	0.8130205	200	0.8424516
37Cl4-2,3,7,8-TCDD	0.1	1.457715	0.5	1.244154	2	1.209026	10	1.112721	40	1.137195	200	1.239891
13C12-1,2,3,4-TCDD	100	1	100	1	100	1	100	1	100	1	100	1
13C12-1,2,3,7,8,9-HxCDD	100	1	100	1	100	1	100	1	100	1	100	1

INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00010	Instrument:	AUTOSPEC01
Calibration Date:	02/01/2023	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
2,3,7,8-TCDF	0.8760604	2.0			RSD ()	
2,3,7,8-TCDD	1.23636	5.6			RSD ()	
1,2,3,7,8-PeCDF	0.844654	2.5			RSD ()	
2,3,4,7,8-PeCDF	0.911178	2.8			RSD ()	
1,2,3,7,8-PeCDD	1.086685	0.9			RSD ()	
1,2,3,4,7,8-HxCDF	1.181686	2.2			RSD ()	
1,2,3,6,7,8-HxCDF	1.248048	2.0			RSD ()	
2,3,4,6,7,8-HxCDF	1.22885	1.7			RSD ()	
1,2,3,7,8,9-HxCDF	1.186537	4.7			RSD ()	
1,2,3,4,7,8-HxCDD	0.9869672	2.3			RSD ()	
1,2,3,6,7,8-HxCDD	1.020722	5.7			RSD ()	
1,2,3,7,8,9-HxCDD	0.985478	1.8			RSD ()	
1,2,3,4,6,7,8-HpCDF	1.204119	5.7			RSD ()	
1,2,3,4,7,8,9-HpCDF	1.165305	3.7			RSD ()	
1,2,3,4,6,7,8-HpCDD	1.252569	11.3			RSD ()	
OCDF	1.186264	13.8			RSD ()	
OCDD	1.102667	10.9			RSD ()	
13C12-2,3,7,8-TCDF	1.768059	3.4			RSD ()	
13C12-2,3,7,8-TCDD	1.102947	3.7			RSD ()	
13C12-1,2,3,7,8-PeCDF	1.527125	6.7			RSD ()	
13C12-2,3,4,7,8-PeCDF	1.466284	6.6			RSD ()	
13C12-1,2,3,7,8-PeCDD	0.9141518	7.4			RSD ()	
13C12-1,2,3,4,7,8-HxCDF	1.053661	2.6			RSD ()	
13C12-1,2,3,6,7,8-HxCDF	1.079953	2.0			RSD ()	
13C12-2,3,4,6,7,8-HxCDF	1.014326	1.2			RSD ()	
13C12-1,2,3,7,8,9-HxCDF	0.9279333	1.5			RSD ()	
13C12-1,2,3,4,7,8-HxCDD	0.9329336	1.7			RSD ()	
13C12-1,2,3,6,7,8-HxCDD	0.9646272	1.1			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDF	1.036089	1.8			RSD ()	
13C12-1,2,3,4,7,8,9-HpCDF	0.9049372	2.7			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDD	0.7819773	2.1			RSD ()	

INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00010	Instrument:	AUTOSPEC01
Calibration Date:	02/01/2023	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
13C12-OCDD	0.7882343	5.0			RSD ()	
37Cl4-2,3,7,8-TCDD	1.23345	9.9			RSD ()	
13C12-1,2,3,4-TCDD	1	0.0			RSD ()	
13C12-1,2,3,7,8,9-HxCDD	1	0.0			RSD ()	

ANALYSIS SEQUENCE

SLB0026

Instrument: AUTOSPEC01 HRGCMS Column ID: K11292
Calibration ID: GB00010 Tune File: JAN3023
EM Voltage: 350 Resolution check times : 11:48, 22:06

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLB0026-ICV1	CS3R1	QC		1	K009821		02/01/2023 10:37	23020102	PK	
SLB0026-RES1	ISCR1	QC		2	K003933		02/01/2023 13:02	23020103	PK	
SLB0026-CAL1	CSLCR	QC		3	I005460		02/01/2023 14:39	23020104	PK	
SLB0026-CAL2	CS1CR	QC		4	I005456		02/01/2023 15:28	23020105	PK	
SLB0026-CAL3	CS2CR	QC		5	I005457		02/01/2023 17:07	23020106	PK	
SLB0026-CAL4	CS3CR	QC		6	K009821		02/01/2023 17:56	23020107	PK	
SLB0026-CAL5	CS4CR	QC		7	I005458		02/01/2023 18:45	23020108	PK	
SLB0026-CAL6	CS5CR	QC		8	I005459		02/01/2023 19:34	23020109	PK	
SLB0026-SCV1	ICVCR	QC		9	H008219		02/01/2023 20:23	23020110	PK	
SLB0026-CCV1	CS3R2	QC		10	K009821		02/01/2023 21:12	23020111	PK	
SLB0026-RES2	ISCR2	QC		11	K003933		02/01/2023 22:06	23020112	PK	

Dataset: T:\Autospec\Processed Data Batch\230201ICIH.qld
Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:36:13 Pacific Standard Time 2/3/23 pk

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Calibrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:23020104, Compound:TF, RT:25.882	1
Peak deleted	Sample:23020104, Compound:TD, RT:26.532	1
Peak deleted	Sample:23020104, Compound:OD, RT:45.120	1
Peak deleted	Sample:23020109, Compound:TF, RT:27.273	6
Peak deleted	Sample:23020109, Compound:TF, RT:27.379	6
Peak deleted	Sample:23020108, Compound:PP, RT:27.107	5
Peak deleted	Sample:23020106, Compound:PF, RT:32.432	3
Peak deleted	Sample:23020108, Compound:HF, RT:33.335	5
Peak deleted	Sample:23020109, Compound:HF, RT:33.335	6
Peak deleted	Sample:23020108, Compound:TD, RT:27.122	5
Peak deleted	Sample:23020108, Compound:TD, RT:27.061	5
Peak deleted	Sample:23020109, Compound:TD, RT:27.107	6
Peak deleted	Sample:23020109, Compound:TD, RT:27.167	6
Peak deleted	Sample:23020104, Compound:HPD, RT:39.318	1
Peak deleted	Sample:23020105, Compound:HPD, RT:39.318	2
Peak deleted	Sample:23020106, Compound:HPD, RT:39.329	3
Peak deleted	Sample:23020108, Compound:HPD, RT:39.296	5
Peak deleted	Sample:23020109, Compound:HPD, RT:39.307	6
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230201ICIH.qld'	

Dataset: T:\Autospec\Processed Data Batch\230201IHOP.qld
Last Altered: Friday, February 03, 2023 11:20:37 Pacific Standard Time
Printed: Friday, February 03, 2023 11:21:40 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.897	1.001	1.633e4	2.121e4	0.876	0.770	0.770	844	1016	2.38e5	3.19e5	282.5	314.0	NO	bb	bb	8.996
12378-PeCDF	30.050	1.001	1.109e5	7.631e4	0.845	1.453	1.550	1249	1693	1.63e6	1.11e6	1307.7	657.1	NO	bb	bd	45.474
23478-PeCDF	31.387	1.001	1.159e5	7.903e4	0.911	1.467	1.550	1249	1693	1.77e6	1.19e6	1420.2	702.0	NO	bd	bd	46.006
123478-HxCDF	34.997	1.000	1.295e5	1.045e5	1.182	1.240	1.240	1714	1368	2.02e6	1.66e6	1181.4	1216.7	NO	bd	bd	43.803
234678-HxCDF	35.988	1.000	1.343e5	1.093e5	1.229	1.229	1.240	1714	1368	2.03e6	1.64e6	1185.6	1198.5	NO	bd	bb	45.575
123678-HxCDF	35.131	1.000	1.458e5	1.151e5	1.248	1.266	1.240	1714	1368	2.05e6	1.65e6	1195.7	1205.2	NO	db	dd	44.655
123789-HxCDF	37.025	1.001	1.158e5	9.218e4	1.187	1.257	1.240	1714	1368	1.74e6	1.39e6	1013.6	1013.7	NO	bb	bb	44.499
1234678-HpCDF	38.852	1.000	1.090e5	1.104e5	1.204	0.988	1.050	1381	2036	1.81e6	1.80e6	1312.8	883.5	NO	bb	bd	45.091
1234789-HpCDF	41.113	1.001	9.861e4	9.166e4	1.165	1.076	1.050	1381	2036	1.37e6	1.36e6	990.9	669.9	NO	bd	bb	47.733
OCDF	45.368	1.006	1.600e5	1.827e5	1.186	0.875	0.890	1512	1583	1.89e6	2.17e6	1249.6	1369.4	NO	bd	bd	86.348
2378-TCDD	26.532	1.001	1.602e4	2.106e4	1.236	0.761	0.770	1110	975	2.31e5	3.09e5	207.8	317.0	NO	bb	bd	7.999
12378-PeCDD	31.643	1.001	9.866e4	5.958e4	1.087	1.656	1.550	1646	1001	1.48e6	9.13e5	896.9	912.1	NO	bd	bb	49.739
123478-HxCDD	36.111	1.000	1.092e5	8.877e4	0.987	1.230	1.240	1547	1532	1.85e6	1.48e6	1198.0	965.8	NO	bd	bd	44.758
123678-HxCDD	36.234	1.001	1.208e5	9.232e4	1.021	1.308	1.240	1547	1532	1.90e6	1.47e6	1225.9	960.4	NO	db	db	43.840
123789-HxCDD	36.612	1.011	1.096e5	9.138e4	0.985	1.199	1.240	1547	1532	1.82e6	1.52e6	1178.1	989.3	NO	bb	bb	44.134
1234678-HpCDD	40.367	1.001	9.142e4	8.634e4	1.253	1.059	1.050	1287	1635	1.36e6	1.30e6	1055.7	793.5	NO	bd	bb	44.175
OCDD	45.130	1.000	1.558e5	1.797e5	1.103	0.867	0.890	1087	1881	1.97e6	2.25e6	1808.2	1195.6	NO	bb	bb	90.946
13C-2378-TCDF	25.867	1.006	2.092e5	2.671e5	1.768	0.783	0.770	1473	1226	3.13e6	4.02e6	2126.4	3281.6	NO	bb	bb	81.841
13C-12378-PeCDF	30.028	1.168	2.959e5	1.916e5	1.527	1.544	1.550	2999	2197	4.50e6	2.95e6	1498.8	1341.1	NO	bb	bb	96.965
13C-23478-PeCDF	31.365	1.220	2.816e5	1.834e5	1.466	1.535	1.550	2999	2197	4.34e6	2.84e6	1446.0	1290.5	NO	bb	bb	96.345
13C-123478-HxCDF	34.986	0.956	1.509e5	3.011e5	1.054	0.501	0.510	1539	2587	2.37e6	4.78e6	1539.0	1847.3	NO	bd	bd	88.697
13C-123678-HxCDF	35.119	0.960	1.595e5	3.087e5	1.080	0.517	0.510	1539	2587	2.51e6	4.86e6	1632.0	1878.9	NO	db	db	89.641
13C-234678-HxCDF	35.977	0.983	1.463e5	2.887e5	1.014	0.507	0.510	1539	2587	2.39e6	4.73e6	1553.6	1829.5	NO	bb	bb	88.660
13C-123789-HxCDF	37.002	1.011	1.315e5	2.625e5	0.928	0.501	0.510	1539	2587	2.16e6	4.40e6	1402.9	1699.3	NO	bb	bb	87.781
13C-1234678-HpCDF	38.841	1.062	1.240e5	2.800e5	1.036	0.443	0.440	1596	2193	2.11e6	4.68e6	1322.3	2133.9	NO	bb	bb	80.624
13C-1234789-HpCDF	41.091	1.123	1.084e5	2.336e5	0.905	0.464	0.440	1596	2193	1.58e6	3.44e6	991.3	1568.5	NO	bb	bb	78.158
13C-1234-TCDD	25.700	0.000	1.445e5	1.847e5	1.000	0.782	0.770	1667	873	2.18e6	2.81e6	1307.2	3212.9	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	1.635e5	2.114e5	1.103	0.774	0.770	1667	873	2.52e6	3.27e6	1513.3	3746.2	NO	bb	bb	103.258
13C-12378-PeCDD	31.621	1.230	1.783e5	1.145e5	0.914	1.557	1.550	940	1014	2.71e6	1.73e6	2879.6	1709.2	NO	bb	bb	97.286
13C-123478-HxCDD	36.100	0.987	2.492e5	1.989e5	0.933	1.253	1.240	1846	1567	4.13e6	3.30e6	2236.6	2103.6	NO	bd	bd	99.308
13C-123678-HxCDD	36.211	0.990	2.631e5	2.131e5	0.965	1.234	1.240	1846	1567	4.22e6	3.43e6	2285.9	2187.7	NO	db	db	102.074
13C-1234678-HpCDD	40.345	1.103	1.659e5	1.554e5	0.782	1.067	1.050	1641	1171	2.51e6	2.40e6	1529.6	2051.4	NO	bb	bb	84.947
13C-OCDD	45.111	1.233	3.174e5	3.517e5	0.788	0.903	0.890	3114	1814	4.07e6	4.46e6	1307.4	2459.0	NO	bb	bb	175.516
13C-123789-HxCDD	36.590	0.000	2.678e5	2.158e5	1.000	1.241	1.240	1846	1567	4.30e6	3.43e6	2331.6	2186.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	3.482e4		1.233			850		5.25e5		617.9			bb		8.577

Dataset: T:\Autospec\Processed Data Batch\230201IHOP.qld
Last Altered: Friday, February 03, 2023 11:20:37 Pacific Standard Time
Printed: Friday, February 03, 2023 11:21:40 Pacific Standard Time

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.389	0.866	1.928e4	2.641e4	1.064	0.730	0.770	844	1016	3.12e5	4.35e5	369.4	427.9	NO	bb	bb	9.011
1289-TCDF	27.394	1.059	1.506e4	2.111e4	0.858	0.713	0.770	844	1016	2.15e5	3.01e5	254.4	296.4	NO	db	dd	8.854
13468-PECDF	27.243	0.907	1.732e5	1.184e5	1.013	1.464	1.550	906	933	2.67e6	1.81e6	2951.1	1944.9	NO	bb	bb	59.051
12389-PECDF	32.423	1.080	1.096e5	7.394e4	0.844	1.482	1.550	1249	1693	1.63e6	1.06e6	1301.6	627.3	NO	bb	bd	44.621
123468-HXCDF	33.337	0.953	1.333e5	1.071e5	1.197	1.245	1.240	1714	1368	1.94e6	1.63e6	1132.0	1192.1	NO	bb	bd	44.431
1368-TCDD	23.674	0.893	1.559e4	1.973e4	1.084	0.790	0.770	1110	975	2.48e5	3.06e5	223.8	314.1	NO	bb	bb	8.690
1289-TCDD	27.137	1.023	1.343e4	1.711e4	0.975	0.785	0.770	1110	975	2.02e5	2.57e5	181.6	263.1	NO	bb	bd	8.354
12479-PECDD	28.925	0.915	1.617e5	1.030e5	1.837	1.569	1.550	1646	1001	1.58e6	1.01e6	962.4	1010.4	NO	bb	bb	49.217
12389-PECDD	32.033	1.013	1.065e5	6.755e4	1.252	1.576	1.550	1646	1001	1.60e6	1.04e6	973.2	1039.9	NO	bb	bb	47.467
124679-HXCDD	34.117	0.945	1.151e5	9.437e4	1.033	1.219	1.240	1547	1532	1.82e6	1.49e6	1174.2	973.0	NO	bb	bb	45.255
1234679-HPCDD	39.309	0.974	9.857e4	9.267e4	1.286	1.064	1.050	1287	1635	1.62e6	1.55e6	1257.2	945.5	NO	bb	bb	46.288
Total-tetrafurans			5.067e4		0.933			844		7.65e5							26.861
Total-penta1			1.732e5					906		2.67e6							59.051
Total-pentafurans			3.556e5		0.866			1249		5.33e6							143.542
Total-hexafurans			6.587e5		1.208			1714		9.78e6							222.964
Total-heptafurans			2.076e5		1.185			1381		3.18e6							92.824
Total-Furans			1.606e6		1.067			844		2.36e7							631.589
Total-tetradioxins			7.564e4		1.099			1110		1.04e6							41.916
Total-pentadioxins			3.670e5		1.392			1646		4.67e6							146.491
Total-hexadioxins			4.546e5		1.007			1547		7.39e6							177.988
Total-heptadioxins			1.900e5		1.269			1287		2.98e6							90.463
Total-Dioxins			1.243e6		1.165			1110		1.80e7							547.804
Total-TEQ			2.849e6					1110		4.17e7							1179.393
FUNCTION1 PFK			6.977e5					215892		1.30e7							
FUNCTION2 PFK			7.329e6					149595		7.20e7							0.000
FUNCTION3 PFK			1.409e7					224809		7.00e7							0.000
FUNCTION4 PFK			7.505e3					156562		3.03e5							
FUNCTION5 PFK			1.269e4					142532		5.28e5							
FUNCTION1 HXCD...			3.884e2					838		8.06e3							0.000
FUNCTION1 HPCD...			3.094e2					854		6.24e3							0.000
FUNCTION2 HPCD...			4.137e2					755		7.38e3							0.000
FUNCTION3 OCDPE			2.422e2					659		4.44e3							0.000
FUNCTION4 NCDPE			2.399e2					738		4.58e3							0.000
FUNCTION5 DCDPE			0.000e0					686		0.00e0							

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.39	1.506e4	2.111e4	0.858	0.71	0.77	254.4	YES	NO	db	dd	8.854
2	2378-TCDF	25.90	1.633e4	2.121e4	0.876	0.77	0.77	282.5	YES	NO	bb	bb	8.996
3	1368-TCDF	22.39	1.928e4	2.641e4	1.064	0.73	0.77	369.4	YES	NO	bb	bb	9.011

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.24	1.732e5	1.184e5	1.013	1.46	1.55	2951.1	YES	NO	bb	bb	59.051

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.42	1.096e5	7.394e4	0.844	1.48	1.55	1301.6	YES	NO	bb	bd	44.621
2	23478-PeCDF	31.39	1.159e5	7.903e4	0.911	1.47	1.55	1420.2	YES	NO	bd	bd	46.006
3	12378-PeCDF	30.05	1.109e5	7.631e4	0.845	1.45	1.55	1307.7	YES	NO	bb	bd	45.474
4	Total-pentafurans	28.90	1.918e4	1.152e4	0.866	1.67	1.55	232.8	YES	NO	bb	bb	7.440

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.99	1.343e5	1.093e5	1.229	1.23	1.24	1185.6	YES	NO	bd	bb	45.575
2	123678-HxCDF	35.13	1.458e5	1.151e5	1.248	1.27	1.24	1195.7	YES	NO	db	dd	44.655
3	123478-HxCDF	35.00	1.295e5	1.045e5	1.182	1.24	1.24	1181.4	YES	NO	bd	bd	43.803
4	123468-HXCDF	33.34	1.333e5	1.071e5	1.197	1.24	1.24	1132.0	YES	NO	bb	bd	44.431
5	123789-HxCDF	37.02	1.158e5	9.218e4	1.187	1.26	1.24	1013.6	YES	NO	bb	bb	44.499

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.11	9.861e4	9.166e4	1.165	1.08	1.05	990.9	YES	NO	bd	bb	47.733
2	1234678-HpCDF	38.85	1.090e5	1.104e5	1.204	0.99	1.05	1312.8	YES	NO	bb	bd	45.091

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.39	1.506e4	2.111e4	0.858	0.71	0.77	254.4	YES	NO	db	dd	8.854
2	2378-TCDF	25.90	1.633e4	2.121e4	0.876	0.77	0.77	282.5	YES	NO	bb	bb	8.996
3	1368-TCDF	22.39	1.928e4	2.641e4	1.064	0.73	0.77	369.4	YES	NO	bb	bb	9.011
4	12389-PECDF	32.42	1.096e5	7.394e4	0.844	1.48	1.55	1301.6	YES	NO	bb	bd	44.621
5	23478-PeCDF	31.39	1.159e5	7.903e4	0.911	1.47	1.55	1420.2	YES	NO	bd	bd	46.006
6	12378-PeCDF	30.05	1.109e5	7.631e4	0.845	1.45	1.55	1307.7	YES	NO	bb	bd	45.474
7	Total-pentafurans	28.90	1.918e4	1.152e4	0.866	1.67	1.55	232.8	YES	NO	bb	bb	7.440
8	234678-HxCDF	35.99	1.343e5	1.093e5	1.229	1.23	1.24	1185.6	YES	NO	bd	bb	45.575
9	123678-HxCDF	35.13	1.458e5	1.151e5	1.248	1.27	1.24	1195.7	YES	NO	db	dd	44.655
10	123478-HxCDF	35.00	1.295e5	1.045e5	1.182	1.24	1.24	1181.4	YES	NO	bd	bd	43.803
11	123468-HXCDF	33.34	1.333e5	1.071e5	1.197	1.24	1.24	1132.0	YES	NO	bb	bd	44.431
12	123789-HxCDF	37.02	1.158e5	9.218e4	1.187	1.26	1.24	1013.6	YES	NO	bb	bb	44.499
13	1234789-HpCDF	41.11	9.861e4	9.166e4	1.165	1.08	1.05	990.9	YES	NO	bd	bb	47.733
14	1234678-HpCDF	38.85	1.090e5	1.104e5	1.204	0.99	1.05	1312.8	YES	NO	bb	bd	45.091
15	OCDF	45.37	1.600e5	1.827e5	1.186	0.88	0.89	1249.6	YES	NO	bd	bd	86.348
16	13468-PECDF	27.24	1.732e5	1.184e5	1.013	1.46	1.55	2951.1	YES	NO	bb	bb	59.051

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.67	1.559e4	1.973e4	1.084	0.79	0.77	223.8	YES	NO	bb	bb	8.690
2	1289-TCDD	27.14	1.343e4	1.711e4	0.975	0.79	0.77	181.6	YES	NO	bb	bd	8.354
3	2378-TCDD	26.53	1.602e4	2.106e4	1.236	0.76	0.77	207.8	YES	NO	bb	bd	7.999
4	Total-tetradioxins	26.21	2.312e4	2.981e4	1.099	0.78	0.77	216.6	YES	NO	bb	bb	12.852
5	Total-tetradioxins	25.73	7.468e3	9.090e3	1.099	0.82	0.77	105.7	YES	NO	bb	bb	4.020

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.03	1.065e5	6.755e4	1.252	1.58	1.55	973.2	YES	NO	bb	bb	47.467
2	Total-pentadioxins	31.87	1.652e2	1.080e2	1.392	1.53	1.55	3.2	YES	NO	db	bb	0.067
3	12378-PeCDD	31.64	9.866e4	5.958e4	1.087	1.66	1.55	896.9	YES	NO	bd	bb	49.739
4	12479-PECDD	28.92	1.617e5	1.030e5	1.837	1.57	1.55	962.4	YES	NO	bb	bb	49.217

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.61	1.096e5	9.138e4	0.985	1.20	1.24	1178.1	YES	NO	bb	bb	44.134
2	123678-HxCDD	36.23	1.208e5	9.232e4	1.021	1.31	1.24	1225.9	YES	NO	db	db	43.840
3	123478-HxCDD	36.11	1.092e5	8.877e4	0.987	1.23	1.24	1198.0	YES	NO	bd	bd	44.758
4	124679-HXCDD	34.12	1.151e5	9.437e4	1.033	1.22	1.24	1174.2	YES	NO	bb	bb	45.255

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.37	9.142e4	8.634e4	1.253	1.06	1.05	1055.7	YES	NO	bd	bb	44.175
2	1234679-HPCDD	39.31	9.857e4	9.267e4	1.286	1.06	1.05	1257.2	YES	NO	bb	bb	46.288

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.67	1.559e4	1.973e4	1.084	0.79	0.77	223.8	YES	NO	bb	bb	8.690
2	1289-TCDD	27.14	1.343e4	1.711e4	0.975	0.79	0.77	181.6	YES	NO	bb	bd	8.354
3	2378-TCDD	26.53	1.602e4	2.106e4	1.236	0.76	0.77	207.8	YES	NO	bb	bd	7.999
4	Total-tetradioxins	26.21	2.312e4	2.981e4	1.099	0.78	0.77	216.6	YES	NO	bb	bb	12.852
5	Total-tetradioxins	25.73	7.468e3	9.090e3	1.099	0.82	0.77	105.7	YES	NO	bb	bb	4.020
6	12389-PECDD	32.03	1.065e5	6.755e4	1.252	1.58	1.55	973.2	YES	NO	bb	bb	47.467
7	Total-pentadioxins	31.87	1.652e2	1.080e2	1.392	1.53	1.55	3.2	YES	NO	db	bb	0.067
8	12378-PeCDD	31.64	9.866e4	5.958e4	1.087	1.66	1.55	896.9	YES	NO	bd	bb	49.739
9	12479-PECDD	28.92	1.617e5	1.030e5	1.837	1.57	1.55	962.4	YES	NO	bb	bb	49.217
10	123789-HxCDD	36.61	1.096e5	9.138e4	0.985	1.20	1.24	1178.1	YES	NO	bb	bb	44.134
11	123678-HxCDD	36.23	1.208e5	9.232e4	1.021	1.31	1.24	1225.9	YES	NO	db	db	43.840
12	123478-HxCDD	36.11	1.092e5	8.877e4	0.987	1.23	1.24	1198.0	YES	NO	bd	bd	44.758
13	124679-HXCDD	34.12	1.151e5	9.437e4	1.033	1.22	1.24	1174.2	YES	NO	bb	bb	45.255
14	1234678-HpCDD	40.37	9.142e4	8.634e4	1.253	1.06	1.05	1055.7	YES	NO	bd	bb	44.175
15	1234679-HPCDD	39.31	9.857e4	9.267e4	1.286	1.06	1.05	1257.2	YES	NO	bb	bb	46.288
16	OCDD	45.13	1.558e5	1.797e5	1.103	0.87	0.89	1808.2	YES	NO	bb	bb	90.946

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.39	1.506e4	2.111e4	0.858	0.71	0.77	254.4	YES	NO	db	dd	8.854
2	2378-TCDF	25.90	1.633e4	2.121e4	0.876	0.77	0.77	282.5	YES	NO	bb	bb	8.996
3	1368-TCDF	22.39	1.928e4	2.641e4	1.064	0.73	0.77	369.4	YES	NO	bb	bb	9.011
4	12389-PECDF	32.42	1.096e5	7.394e4	0.844	1.48	1.55	1301.6	YES	NO	bb	bd	44.621
5	23478-PeCDF	31.39	1.159e5	7.903e4	0.911	1.47	1.55	1420.2	YES	NO	bd	bd	46.006
6	12378-PeCDF	30.05	1.109e5	7.631e4	0.845	1.45	1.55	1307.7	YES	NO	bb	bd	45.474
7	Total-pentafurans	28.90	1.918e4	1.152e4	0.866	1.67	1.55	232.8	YES	NO	bb	bb	7.440
8	234678-HxCDF	35.99	1.343e5	1.093e5	1.229	1.23	1.24	1185.6	YES	NO	bd	bb	45.575
9	123678-HxCDF	35.13	1.458e5	1.151e5	1.248	1.27	1.24	1195.7	YES	NO	db	dd	44.655
10	123478-HxCDF	35.00	1.295e5	1.045e5	1.182	1.24	1.24	1181.4	YES	NO	bd	bd	43.803
11	123468-HXCDF	33.34	1.333e5	1.071e5	1.197	1.24	1.24	1132.0	YES	NO	bb	bd	44.431
12	123789-HxCDF	37.02	1.158e5	9.218e4	1.187	1.26	1.24	1013.6	YES	NO	bb	bb	44.499
13	1234789-HpCDF	41.11	9.861e4	9.166e4	1.165	1.08	1.05	990.9	YES	NO	bd	bb	47.733
14	1234678-HpCDF	38.85	1.090e5	1.104e5	1.204	0.99	1.05	1312.8	YES	NO	bb	bd	45.091
15	OCDF	45.37	1.600e5	1.827e5	1.186	0.88	0.89	1249.6	YES	NO	bd	bd	86.348
16	13468-PECDF	27.24	1.732e5	1.184e5	1.013	1.46	1.55	2951.1	YES	NO	bb	bb	59.051
17	1368-TCDD	23.67	1.559e4	1.973e4	1.084	0.79	0.77	223.8	YES	NO	bb	bb	8.690
18	1289-TCDD	27.14	1.343e4	1.711e4	0.975	0.79	0.77	181.6	YES	NO	bb	bd	8.354
19	2378-TCDD	26.53	1.602e4	2.106e4	1.236	0.76	0.77	207.8	YES	NO	bb	bd	7.999
20	Total-tetradioxins	26.21	2.312e4	2.981e4	1.099	0.78	0.77	216.6	YES	NO	bb	bb	12.852
21	Total-tetradioxins	25.73	7.468e3	9.090e3	1.099	0.82	0.77	105.7	YES	NO	bb	bb	4.020
22	12389-PECDD	32.03	1.065e5	6.755e4	1.252	1.58	1.55	973.2	YES	NO	bb	bb	47.467
23	Total-pentadioxins	31.87	1.652e2	1.080e2	1.392	1.53	1.55	3.2	YES	NO	db	bb	0.067
24	12378-PeCDD	31.64	9.866e4	5.958e4	1.087	1.66	1.55	896.9	YES	NO	bd	bb	49.739
25	12479-PECDD	28.92	1.617e5	1.030e5	1.837	1.57	1.55	962.4	YES	NO	bb	bb	49.217
26	123789-HxCDD	36.61	1.096e5	9.138e4	0.985	1.20	1.24	1178.1	YES	NO	bb	bb	44.134
27	123678-HxCDD	36.23	1.208e5	9.232e4	1.021	1.31	1.24	1225.9	YES	NO	db	db	43.840
28	123478-HxCDD	36.11	1.092e5	8.877e4	0.987	1.23	1.24	1198.0	YES	NO	bd	bd	44.758
29	124679-HXCDD	34.12	1.151e5	9.437e4	1.033	1.22	1.24	1174.2	YES	NO	bb	bb	45.255
30	1234678-HpCDD	40.37	9.142e4	8.634e4	1.253	1.06	1.05	1055.7	YES	NO	bd	bb	44.175
31	1234679-HPCDD	39.31	9.857e4	9.267e4	1.286	1.06	1.05	1257.2	YES	NO	bb	bb	46.288
32	OCDD	45.13	1.558e5	1.797e5	1.103	0.87	0.89	1808.2	YES	NO	bb	bb	90.946

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.12	9.025e3					1.5	NO		bb		
2	FUNCTION1 PFK	23.39	1.564e4					1.7	NO		db		
3	FUNCTION1 PFK	23.33	1.699e4					1.8	NO		dd		
4	FUNCTION1 PFK	23.21	3.674e4					1.8	NO		dd		
5	FUNCTION1 PFK	23.15	1.668e4					1.7	NO		bd		
6	FUNCTION1 PFK	23.07	1.606e4					2.1	NO		bb		
7	FUNCTION1 PFK	22.69	6.506e3					1.1	NO		db		
8	FUNCTION1 PFK	22.57	5.324e4					2.0	NO		bd		
9	FUNCTION1 PFK	22.46	2.047e3					0.6	NO		bb		
10	FUNCTION1 PFK	22.18	2.854e4					1.8	NO		bb		
11	FUNCTION1 PFK	22.00	2.061e4					1.1	NO		bb		
12	FUNCTION1 PFK	21.88	1.276e3					0.4	NO		bb		
13	FUNCTION1 PFK	21.48	1.972e3					0.6	NO		bb		
14	FUNCTION1 PFK	21.36	4.333e4					3.4	YES		db		
15	FUNCTION1 PFK	21.33	3.930e4					3.3	YES		dd		
16	FUNCTION1 PFK	21.25	3.950e4					3.7	YES		dd		
17	FUNCTION1 PFK	21.22	1.839e4					1.7	NO		bd		
18	FUNCTION1 PFK	26.44	2.008e3					0.6	NO		bb		
19	FUNCTION1 PFK	26.37	1.096e4					1.2	NO		bb		
20	FUNCTION1 PFK	26.06	5.687e3					0.8	NO		bb		
21	FUNCTION1 PFK	25.85	4.606e4					2.0	NO		bb		
22	FUNCTION1 PFK	25.67	1.822e4					1.6	NO		db		
23	FUNCTION1 PFK	25.59	5.429e3					0.7	NO		bd		
24	FUNCTION1 PFK	25.41	3.678e3					0.7	NO		bb		
25	FUNCTION1 PFK	25.35	1.804e3					0.6	NO		bb		
26	FUNCTION1 PFK	24.69	1.276e4					1.4	NO		bb		
27	FUNCTION1 PFK	24.46	1.415e3					0.4	NO		bb		
28	FUNCTION1 PFK	24.23	1.486e4					1.4	NO		db		
29	FUNCTION1 PFK	24.16	3.220e4					2.1	NO		dd		
30	FUNCTION1 PFK	24.07	1.916e4					1.5	NO		bd		
31	FUNCTION1 PFK	23.86	1.041e4					1.2	NO		bb		
32	FUNCTION1 PFK	23.75	2.252e4					1.8	NO		bb		
33	FUNCTION1 PFK	23.46	2.488e3					0.5	NO		bb		
34	FUNCTION1 PFK	28.21	1.683e4					1.3	NO		bb		
35	FUNCTION1 PFK	28.13	1.846e4					1.2	NO		db		
36	FUNCTION1 PFK	27.97	3.589e4					1.9	NO		bd		
37	FUNCTION1 PFK	27.85	3.272e3					0.6	NO		bb		

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	27.55	1.459e3					0.4	NO		bb		
39	FUNCTION1 PFK	27.48	1.620e3					0.5	NO		bb		
40	FUNCTION1 PFK	27.36	8.182e3					1.0	NO		bb		
41	FUNCTION1 PFK	27.27	3.811e3					0.8	NO		db		
42	FUNCTION1 PFK	27.24	6.329e3					0.8	NO		bd		
43	FUNCTION1 PFK	27.03	6.469e3					1.1	NO		db		
44	FUNCTION1 PFK	26.99	1.869e4					1.7	NO		bd		
45	FUNCTION1 PFK	26.88	1.188e3					0.4	NO		bb		

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Last Altered: Friday, February 03, 2023 11:20:37 Pacific Standard Time
Printed: Friday, February 03, 2023 11:21:40 Pacific Standard Time

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.61	1.089e6					38.3	YES		dd		0.000
2	FUNCTION2 PFK	28.42	5.461e5					42.0	YES		dd		0.000
3	FUNCTION2 PFK	28.36	4.208e5					43.0	YES		bd		0.000
4	FUNCTION2 PFK	30.22	3.292e4					7.2	YES		dd		0.000
5	FUNCTION2 PFK	30.16	1.231e5					8.8	YES		dd		0.000
6	FUNCTION2 PFK	30.05	1.117e5					10.9	YES		dd		0.000
7	FUNCTION2 PFK	29.99	9.120e4					11.4	YES		dd		0.000
8	FUNCTION2 PFK	29.94	2.092e5					12.7	YES		dd		0.000
9	FUNCTION2 PFK	29.76	2.907e5					15.9	YES		dd		0.000
10	FUNCTION2 PFK	29.69	1.383e5					17.3	YES		dd		0.000
11	FUNCTION2 PFK	29.58	3.090e5					19.5	YES		dd		0.000
12	FUNCTION2 PFK	29.52	2.750e5					21.8	YES		dd		0.000
13	FUNCTION2 PFK	29.39	4.070e5					23.3	YES		dd		0.000
14	FUNCTION2 PFK	29.28	4.078e5					25.5	YES		dd		0.000
15	FUNCTION2 PFK	29.18	3.023e5					27.3	YES		dd		0.000
16	FUNCTION2 PFK	29.14	2.357e5					29.1	YES		dd		0.000
17	FUNCTION2 PFK	28.99	6.311e5					30.4	YES		dd		0.000
18	FUNCTION2 PFK	28.92	2.637e5					32.6	YES		dd		0.000
19	FUNCTION2 PFK	28.71	1.202e6					36.5	YES		dd		0.000
20	FUNCTION2 PFK	32.81	9.753e3					1.3	NO		bb		0.000
21	FUNCTION2 PFK	32.42	4.488e3					1.0	NO		db		0.000
22	FUNCTION2 PFK	32.38	3.779e3					1.0	NO		bd		0.000
23	FUNCTION2 PFK	31.96	1.738e4					2.2	NO		bb		0.000
24	FUNCTION2 PFK	31.88	6.239e3					1.5	NO		db		0.000
25	FUNCTION2 PFK	31.82	6.444e3					1.4	NO		bd		0.000
26	FUNCTION2 PFK	31.71	6.215e3					1.3	NO		db		0.000
27	FUNCTION2 PFK	31.68	5.289e3					1.0	NO		bd		0.000
28	FUNCTION2 PFK	31.61	3.799e3					1.0	NO		bb		0.000
29	FUNCTION2 PFK	31.29	5.305e3					1.2	NO		bb		0.000
30	FUNCTION2 PFK	31.23	7.886e3					2.2	NO		bb		0.000
31	FUNCTION2 PFK	30.99	1.453e4					1.9	NO		bb		0.000
32	FUNCTION2 PFK	30.82	9.920e3					1.5	NO		bb		0.000
33	FUNCTION2 PFK	30.75	8.792e3					1.2	NO		bb		0.000
34	FUNCTION2 PFK	30.57	3.072e3					0.9	NO		bb		0.000
35	FUNCTION2 PFK	30.26	1.206e5					6.2	YES		db		0.000
36	FUNCTION2 PFK	32.91	8.369e3					1.2	NO		bb		0.000

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.94	1.363e3					0.5	NO		bb		0.000
2	FUNCTION3 PFK	36.89	2.597e3					0.7	NO		bb		0.000
3	FUNCTION3 PFK	36.63	5.216e4					2.1	NO		bb		0.000
4	FUNCTION3 PFK	35.98	3.727e4					3.2	YES		bb		0.000
5	FUNCTION3 PFK	35.89	8.881e3					1.2	NO		bb		0.000
6	FUNCTION3 PFK	35.60	1.234e3					0.5	NO		bb		0.000
7	FUNCTION3 PFK	34.97	3.658e3					1.5	NO		bb		0.000
8	FUNCTION3 PFK	34.76	1.198e4					1.2	NO		bb		0.000
9	FUNCTION3 PFK	34.41	7.167e5					12.6	YES		db		0.000
10	FUNCTION3 PFK	34.27	1.814e5					18.8	YES		dd		0.000
11	FUNCTION3 PFK	33.46	8.929e6					56.3	YES		dd		0.000
12	FUNCTION3 PFK	33.26	1.470e6					65.1	YES		dd		0.000
13	FUNCTION3 PFK	33.14	1.013e6					69.2	YES		dd		0.000
14	FUNCTION3 PFK	33.07	1.616e6					73.1	YES		bd		0.000
15	FUNCTION3 PFK	37.87	2.660e3					0.7	NO		bb		0.000
16	FUNCTION3 PFK	37.70	1.990e4					1.9	NO		bb		0.000
17	FUNCTION3 PFK	37.50	4.098e3					0.8	NO		bb		0.000
18	FUNCTION3 PFK	37.39	4.630e3					0.7	NO		bb		0.000
19	FUNCTION3 PFK	37.31	1.274e4					1.3	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	42.07	7.505e3					1.9	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.80	5.683e3					1.8	NO		bb		
2	FUNCTION5 PFK	43.45	7.005e3					1.9	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	28.15	7.677e1					2.2	NO		bb		0.000
2	FUNCTION1 HXCD...	27.41	8.186e1					1.7	NO		bb		0.000
3	FUNCTION1 HXCD...	26.21	8.899e1					2.8	NO		bb		0.000
4	FUNCTION1 HXCD...	24.48	1.408e2					2.9	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	25.28	8.635e1					2.2	NO		bb		0.000
2	FUNCTION1 HPCD...	24.58	7.600e1					1.7	NO		bb		0.000
3	FUNCTION1 HPCD...	22.57	1.471e2					3.3	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.97	1.041e2					2.4	NO		bb		0.000
2	FUNCTION2 HPCD...	31.62	1.168e2					2.5	NO		bb		0.000
3	FUNCTION2 HPCD...	31.26	1.928e2					4.9	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.10	7.435e1					2.4	NO		bb		0.000
2	FUNCTION3 OCDPE	35.85	7.444e1					2.1	NO		bb		0.000
3	FUNCTION3 OCDPE	35.30	9.337e1					2.3	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.04	7.794e1					1.9	NO		bb		0.000
2	FUNCTION4 NCDPE	41.07	7.754e1					1.8	NO		bb		0.000
3	FUNCTION4 NCDPE	39.75	8.441e1					2.5	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

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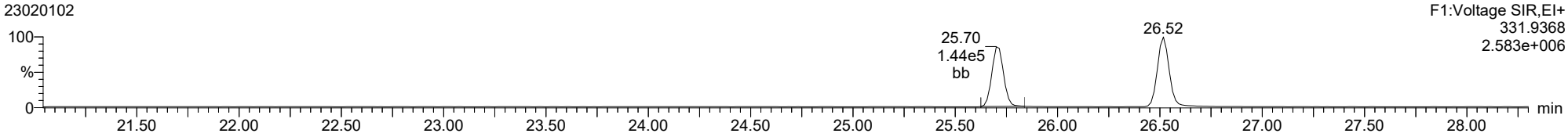

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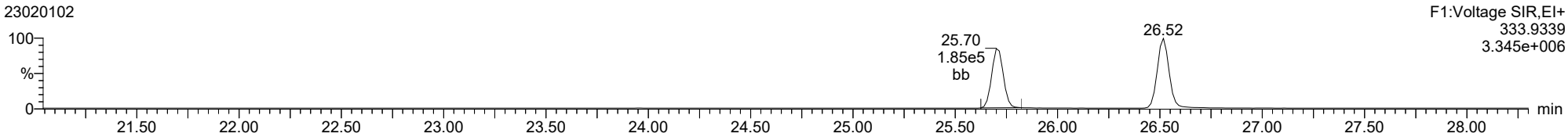

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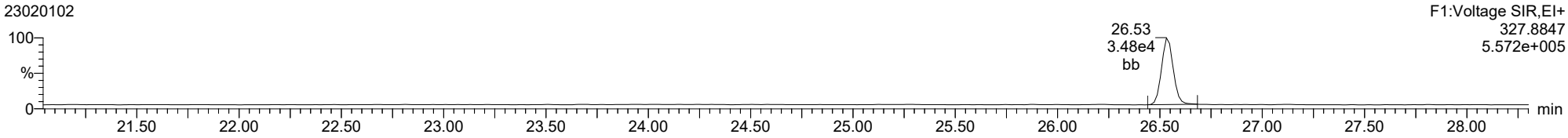

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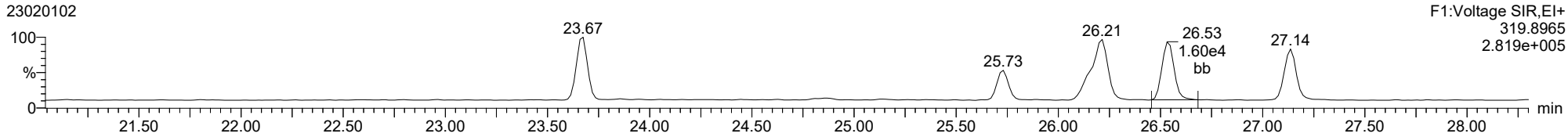

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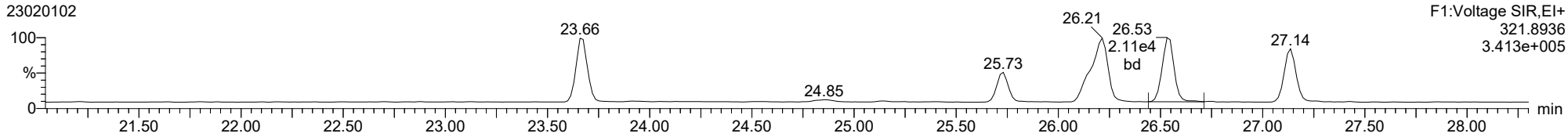

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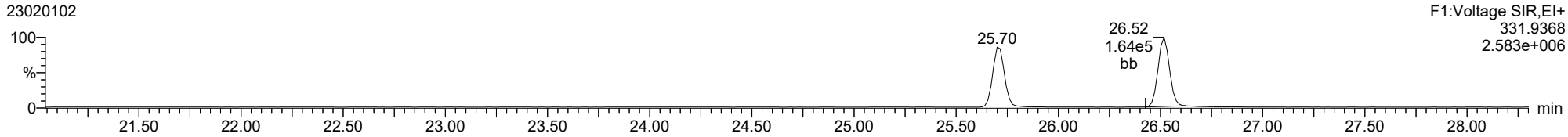

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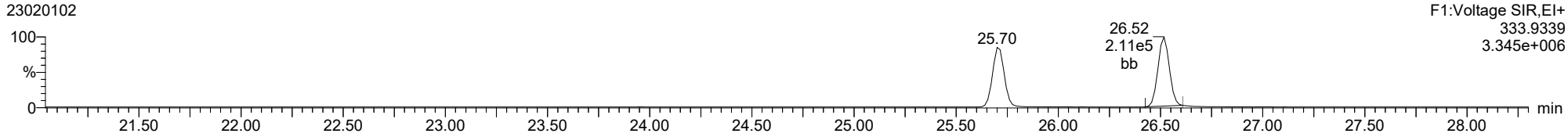

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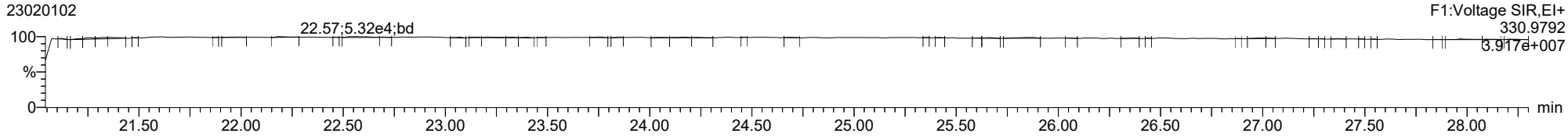

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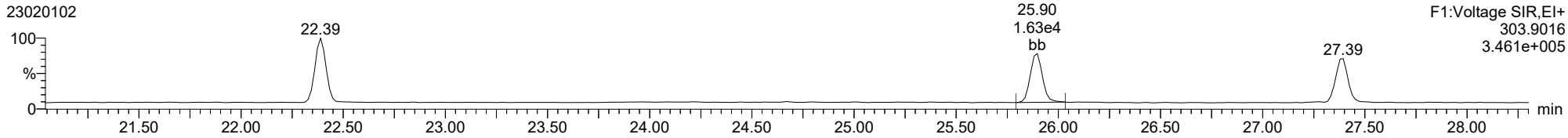

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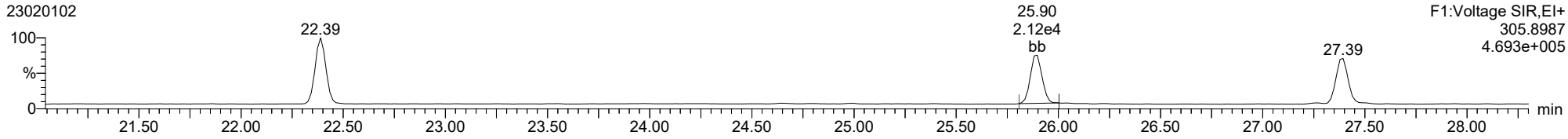

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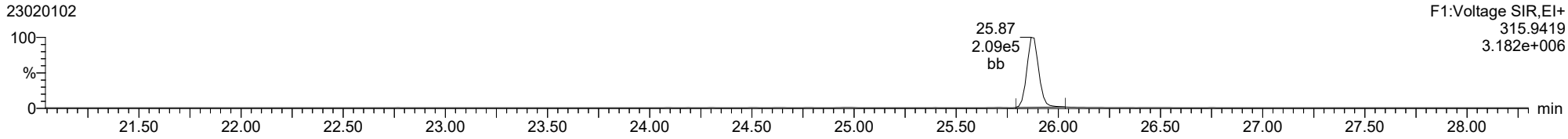

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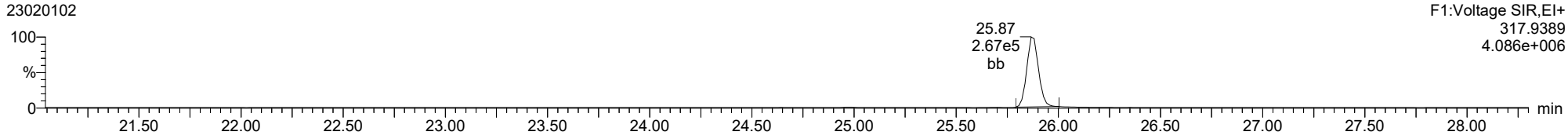

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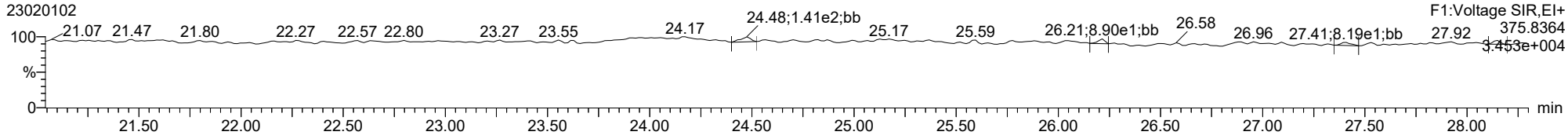

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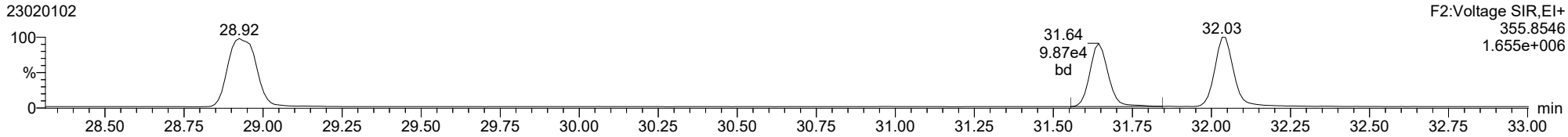

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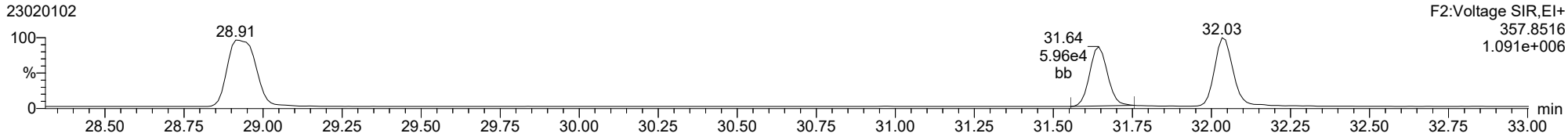

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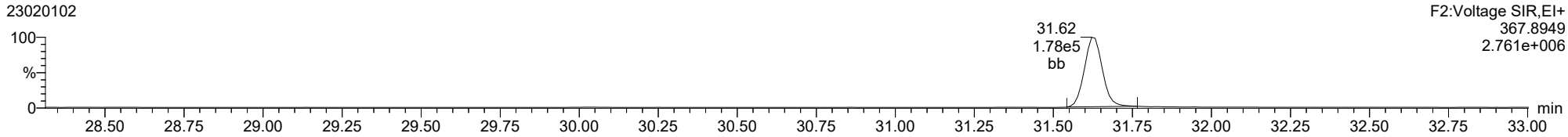

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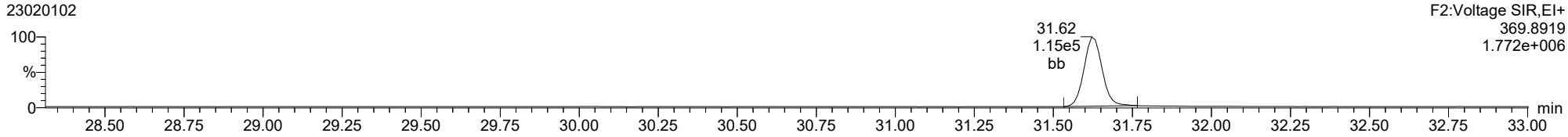

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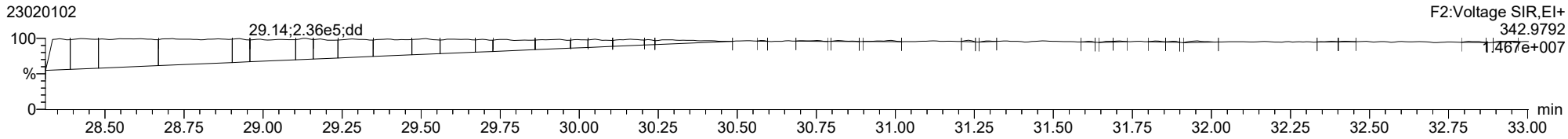

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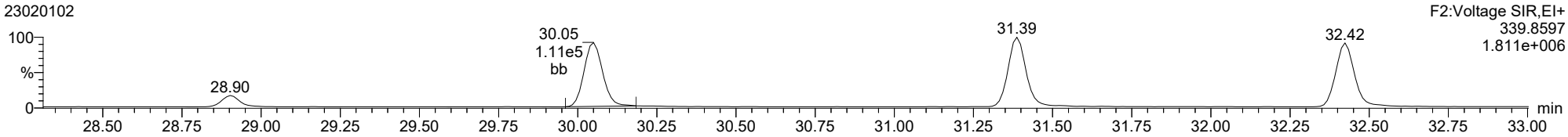

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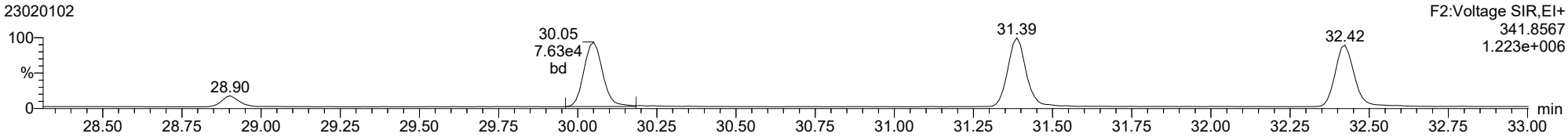

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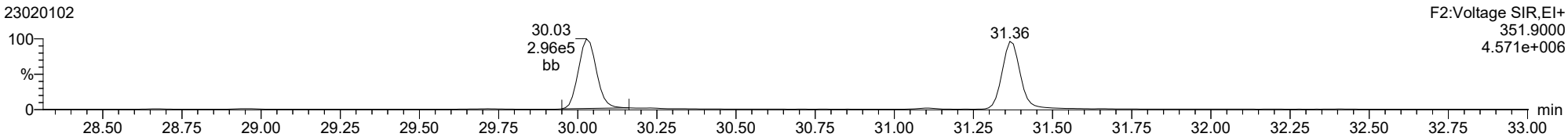

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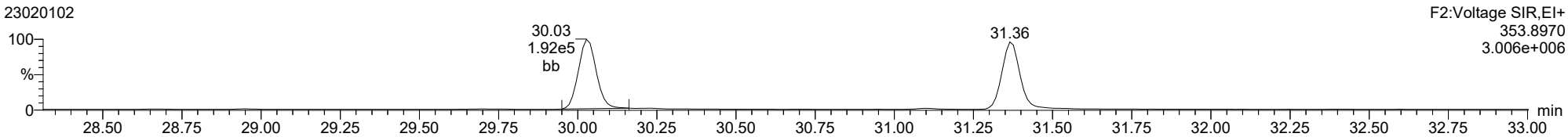

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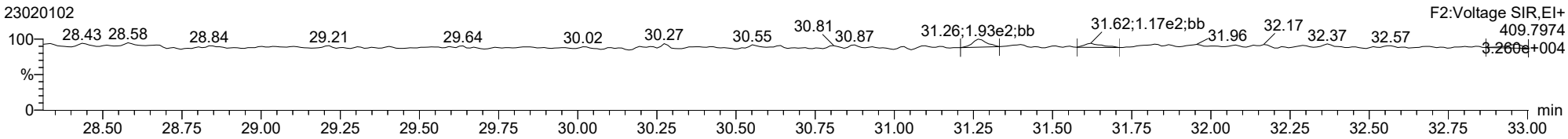

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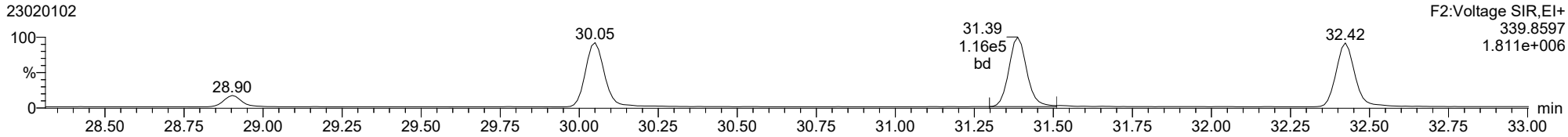
23478-PeCDF



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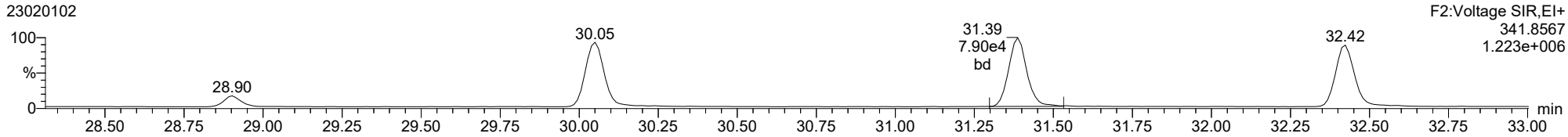

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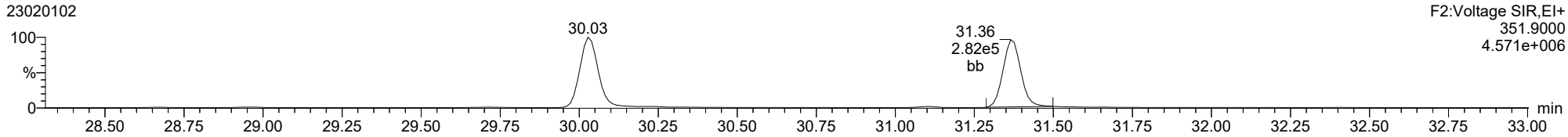

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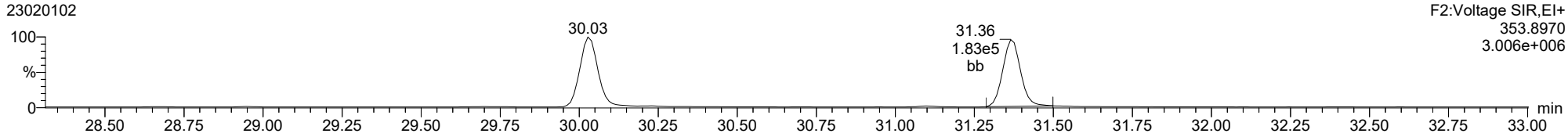

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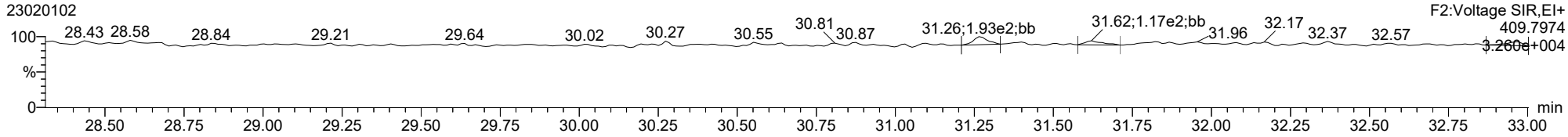

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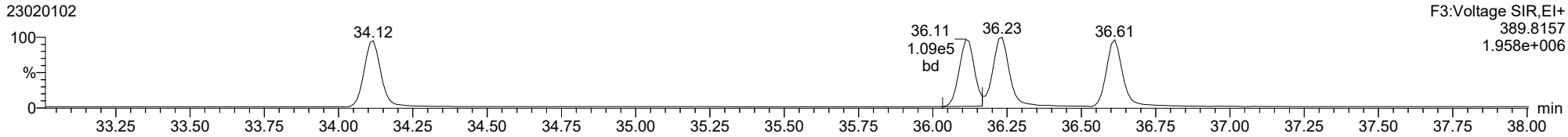

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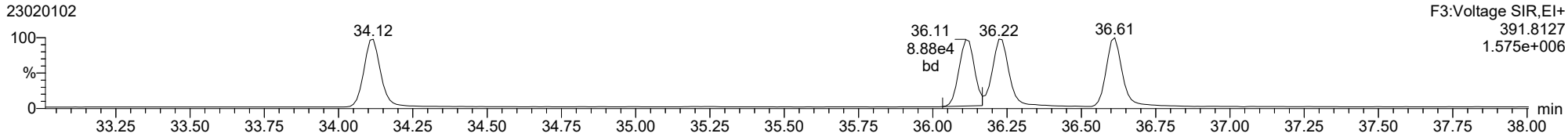

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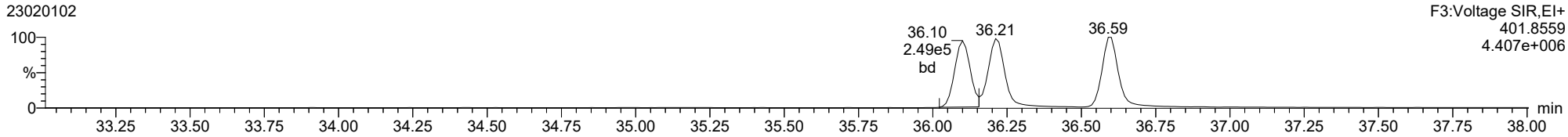

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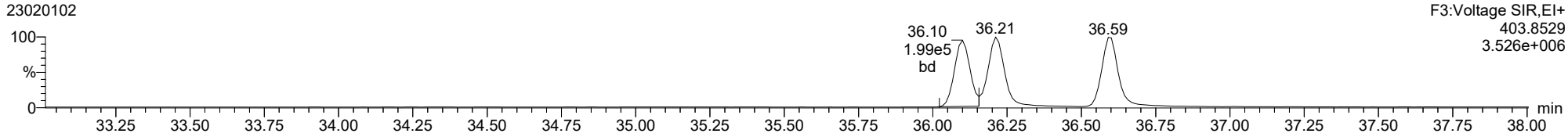

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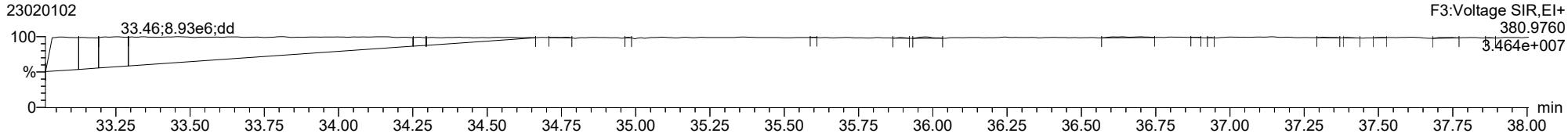

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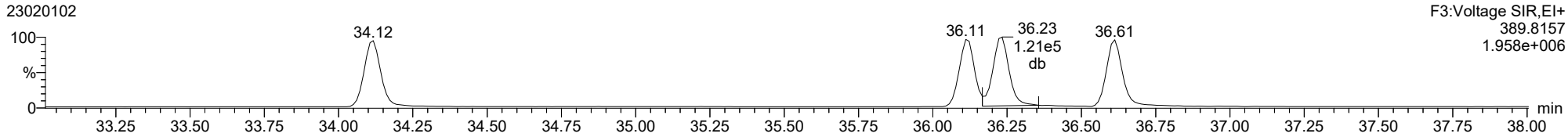

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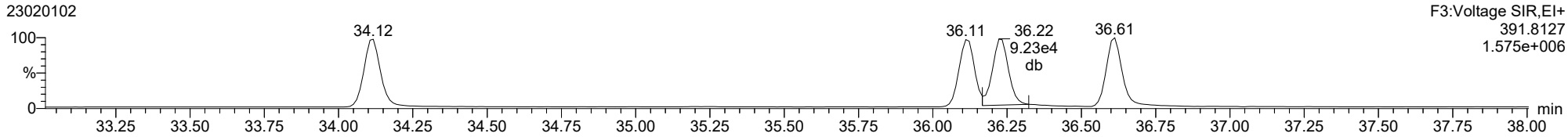

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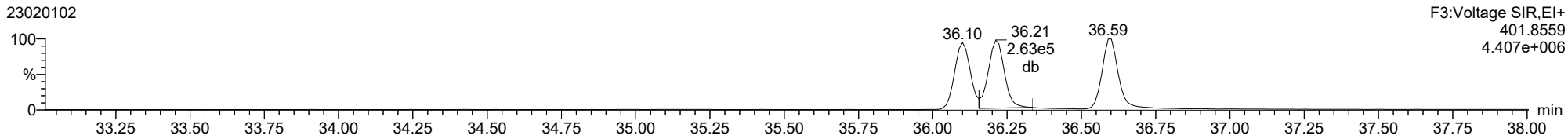

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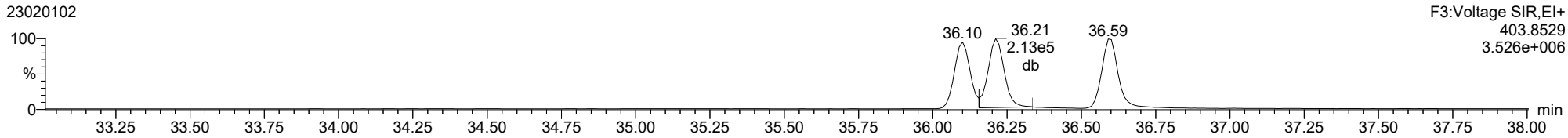

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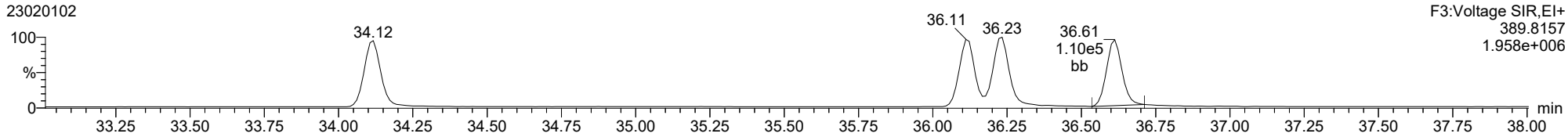

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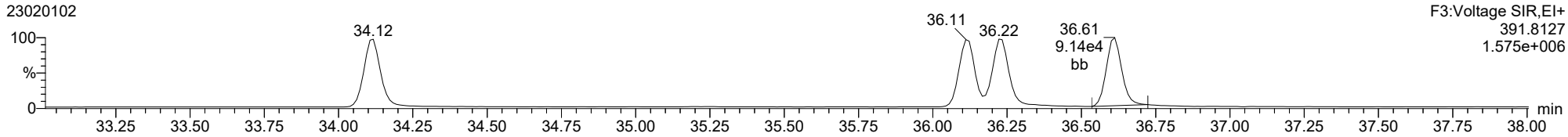

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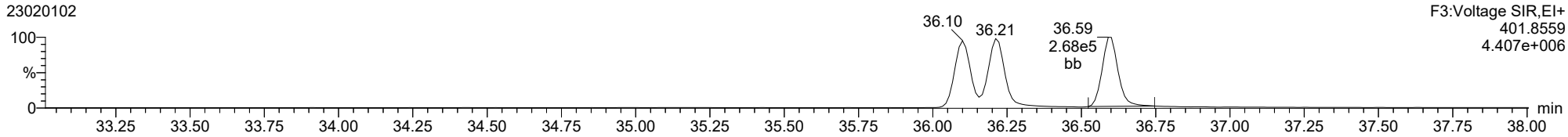

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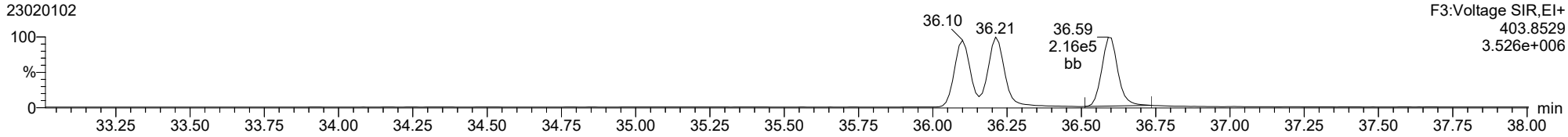

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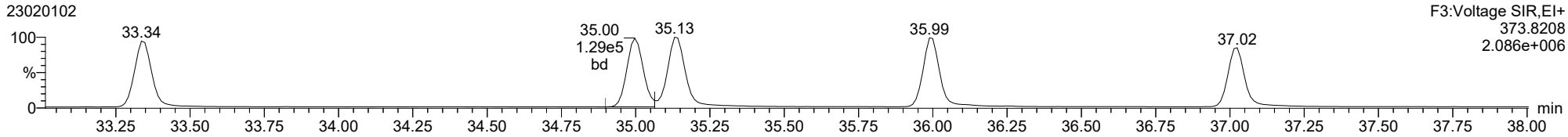

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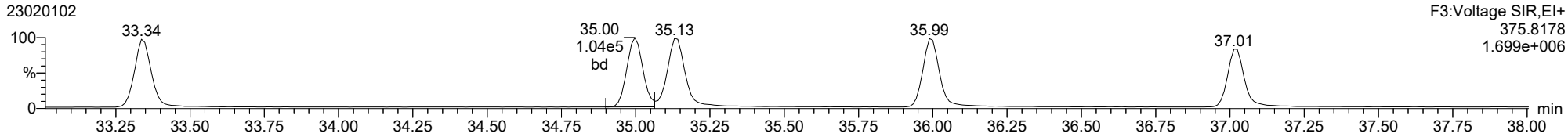

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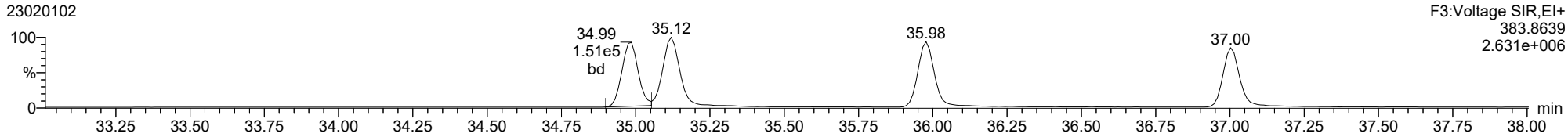

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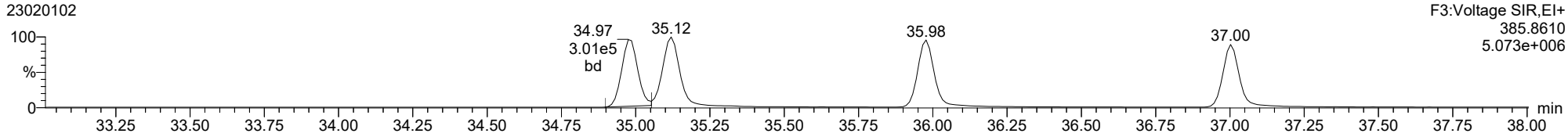

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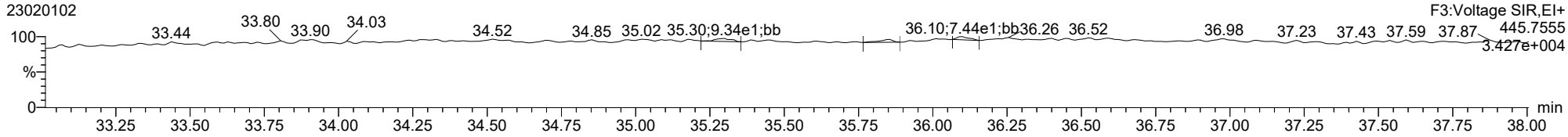

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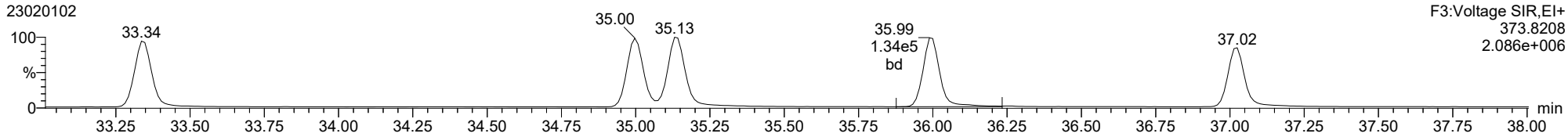

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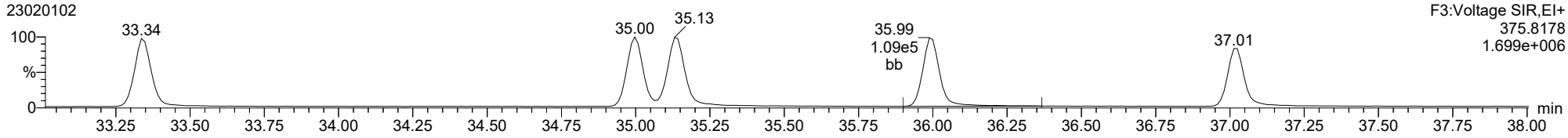

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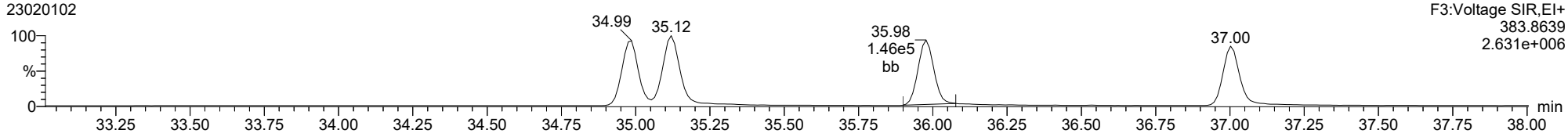

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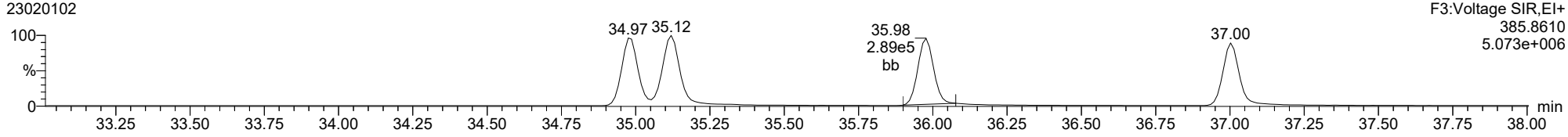

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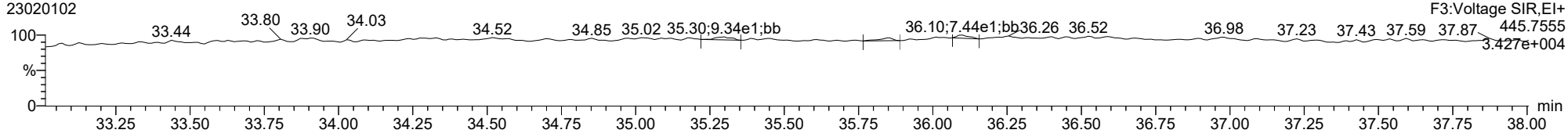

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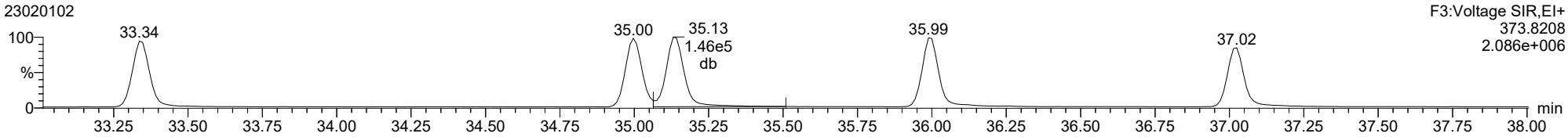

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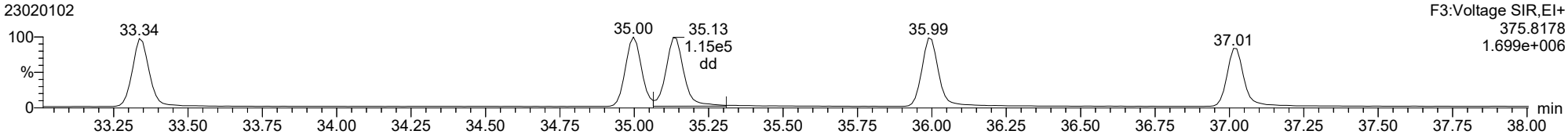

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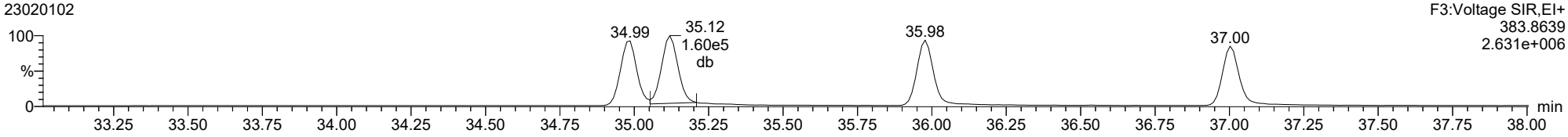

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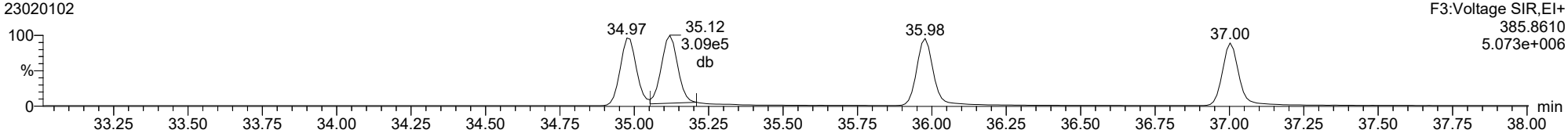

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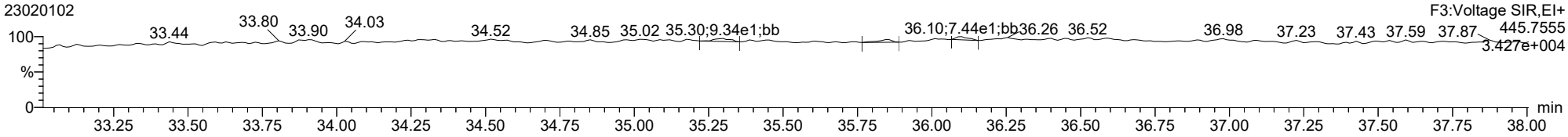

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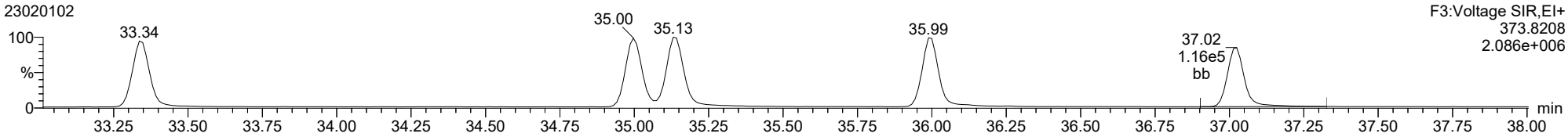

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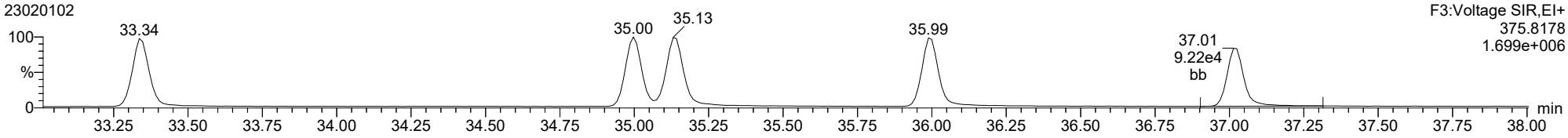

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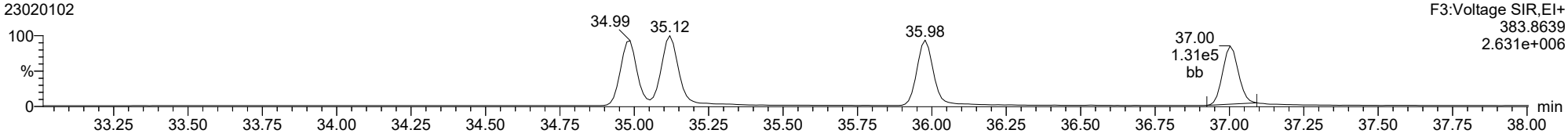

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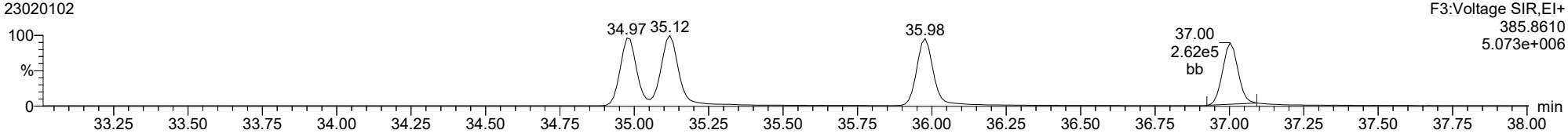

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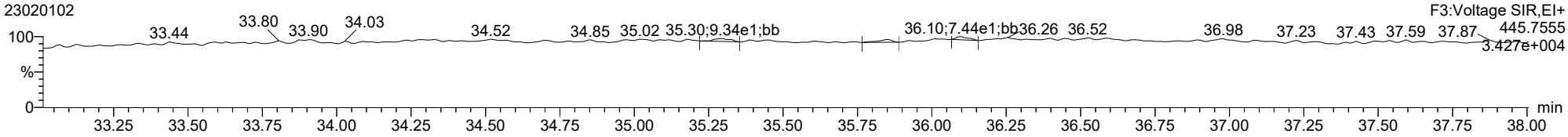

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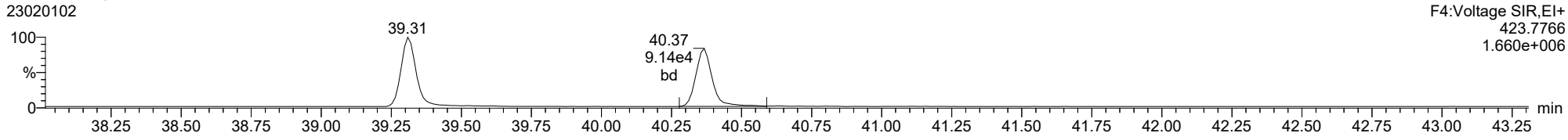

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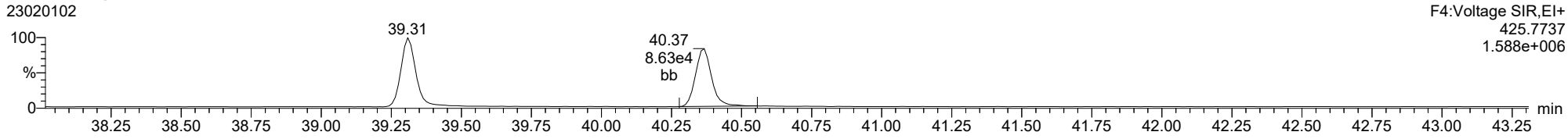

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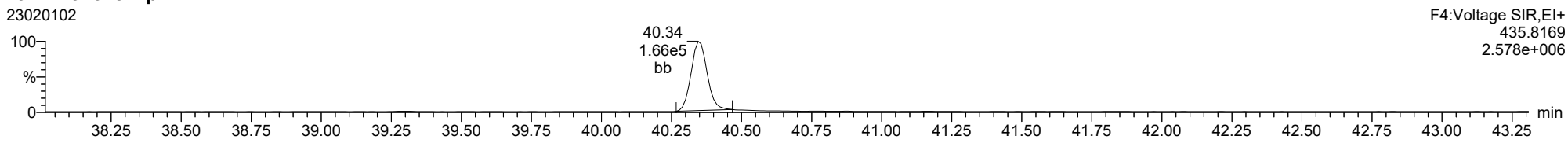

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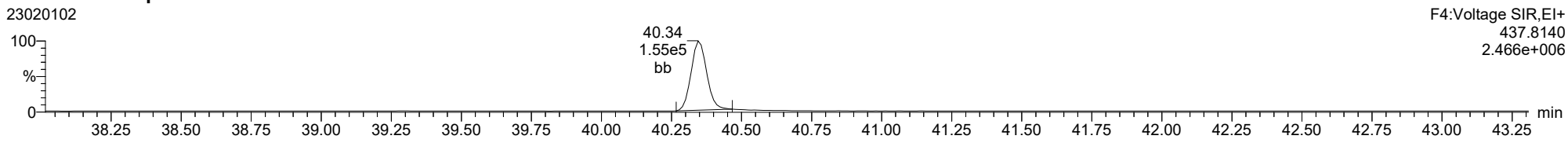

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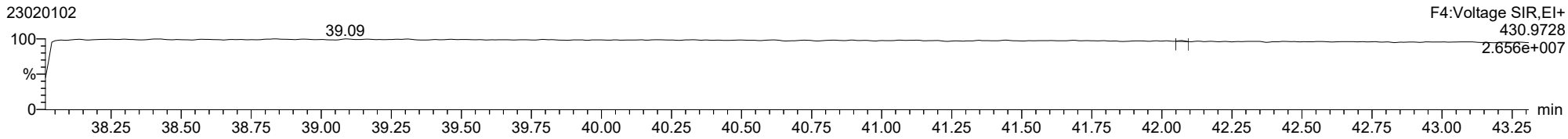

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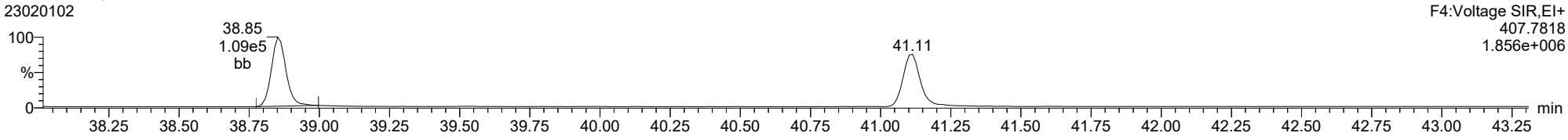

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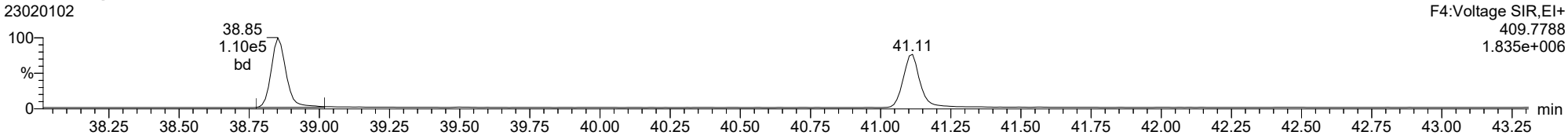

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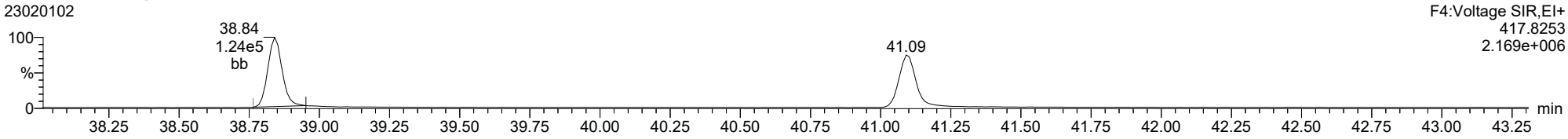

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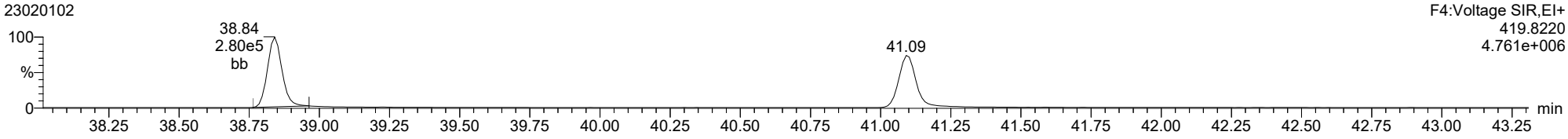

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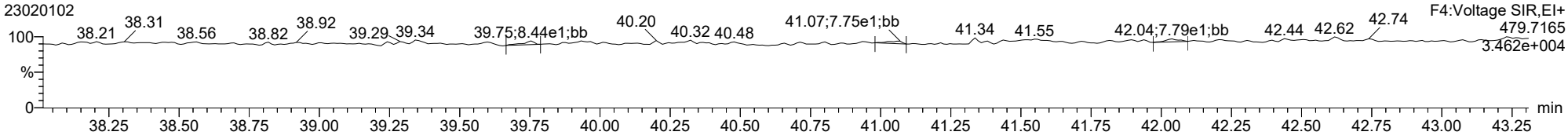

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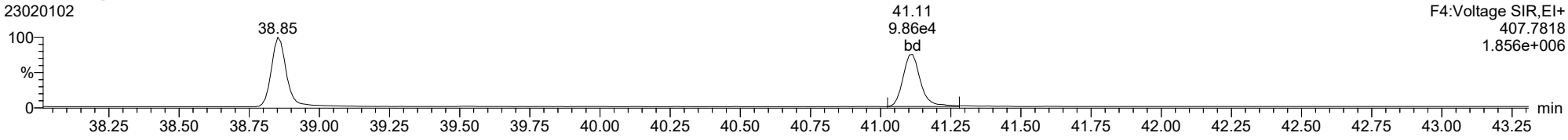

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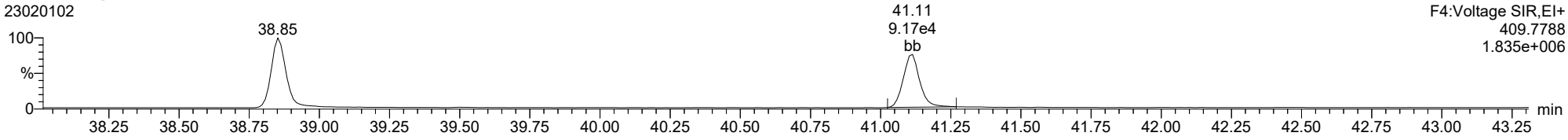

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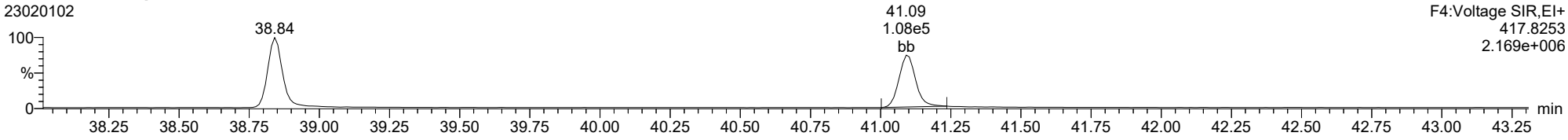

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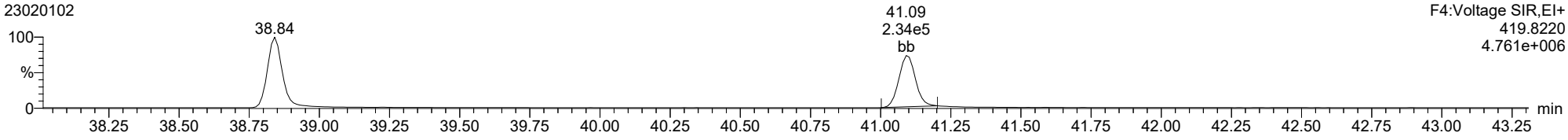

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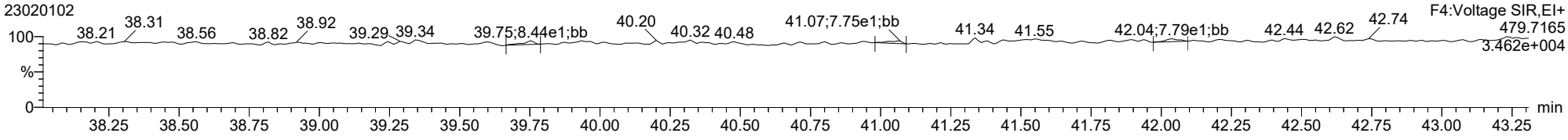

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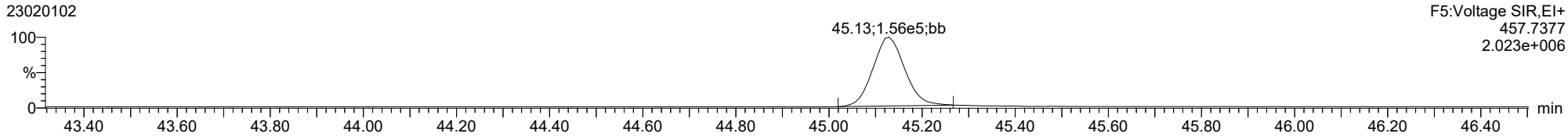

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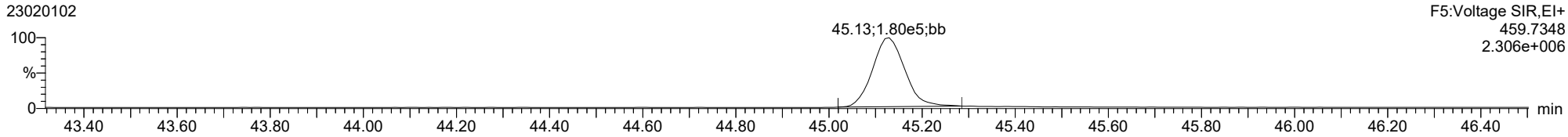

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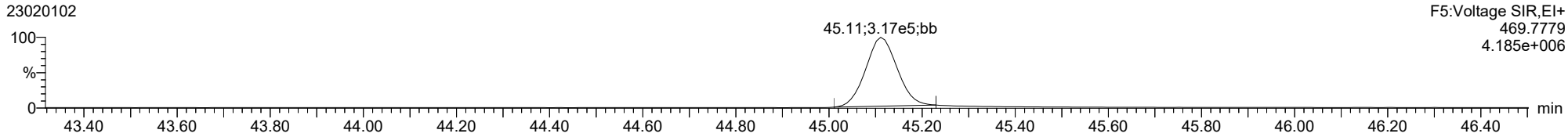

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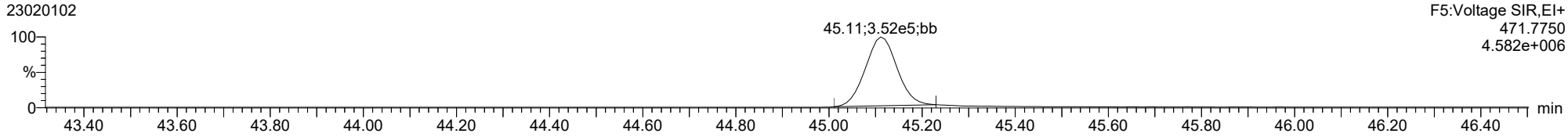

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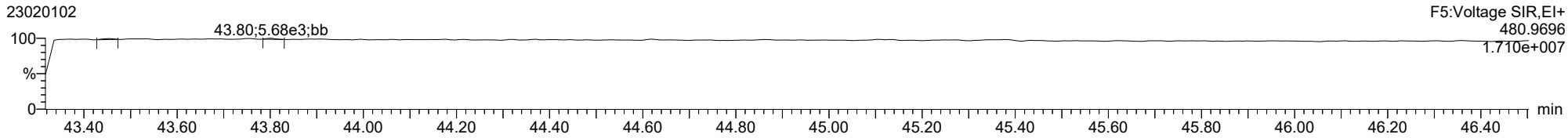

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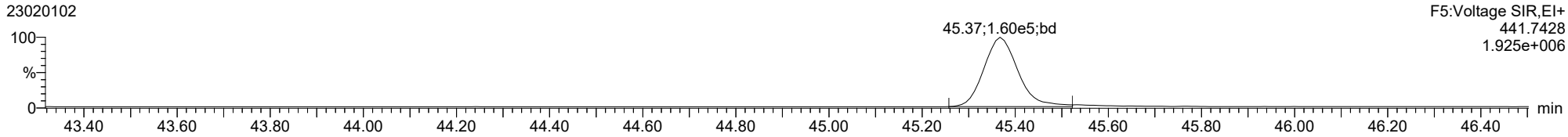

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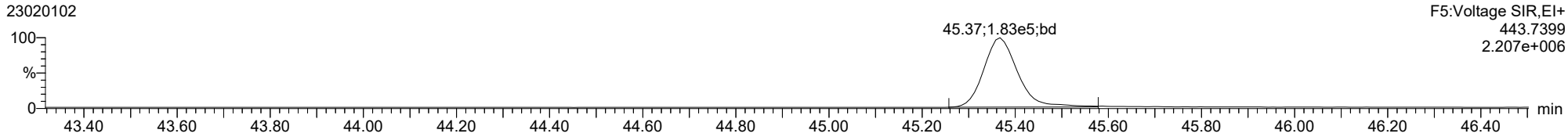
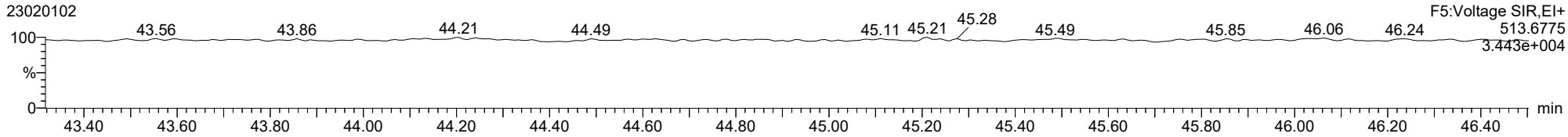


FUNCTION5 DCDPE



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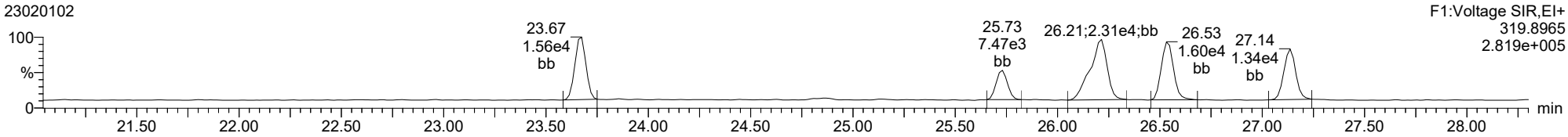
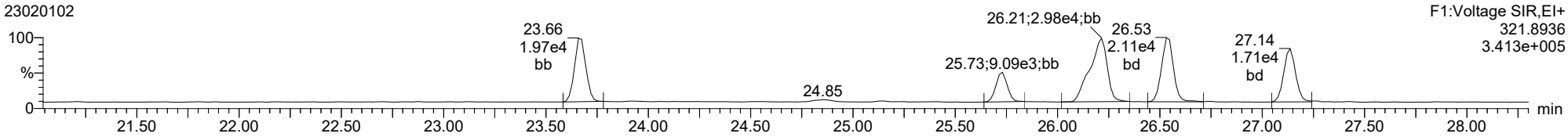


Total-tetradioxins



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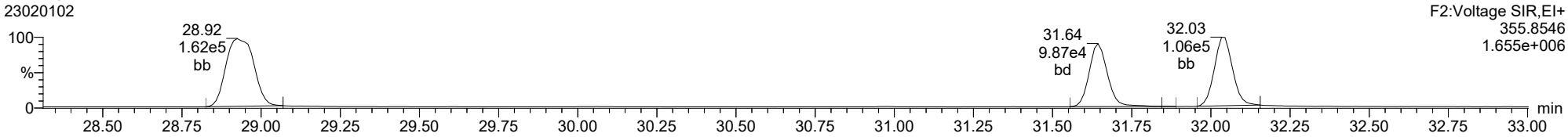

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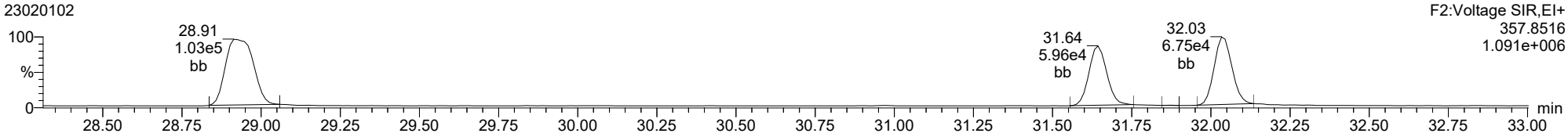

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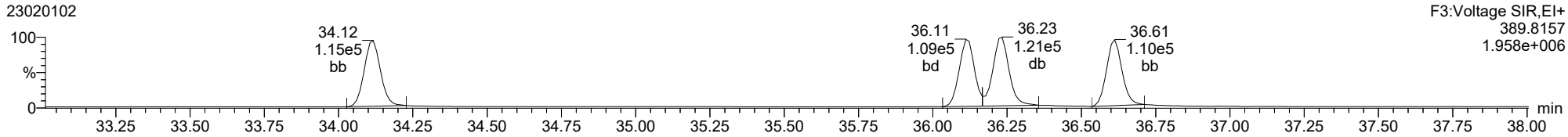

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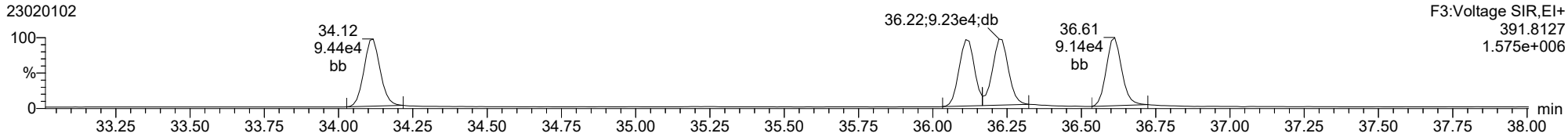

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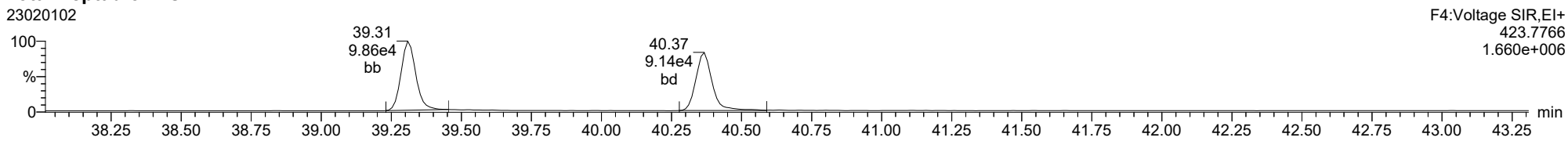

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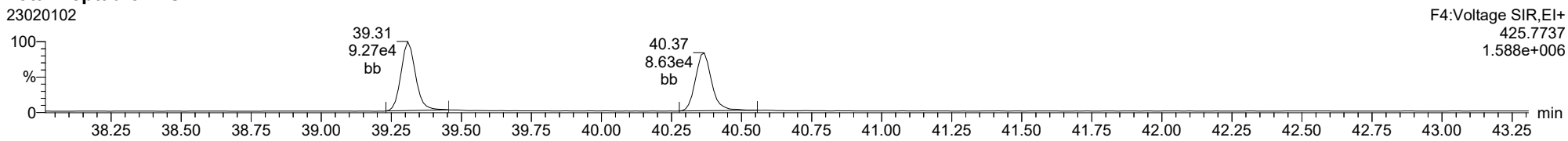

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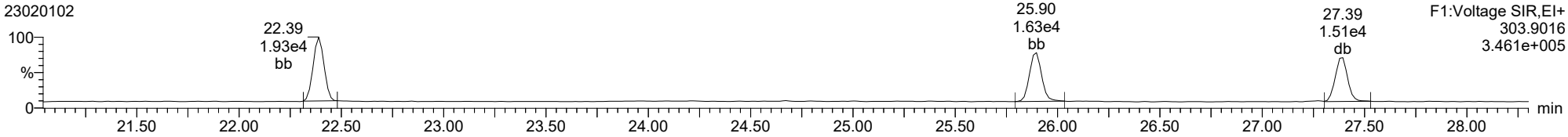

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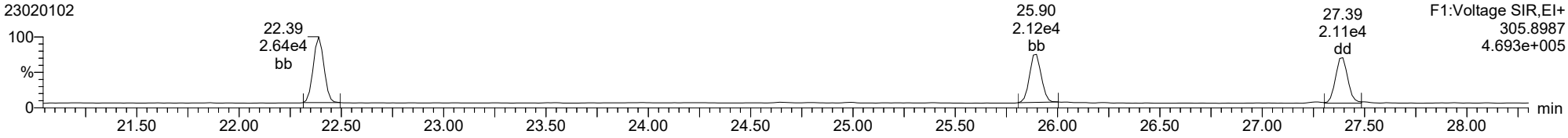

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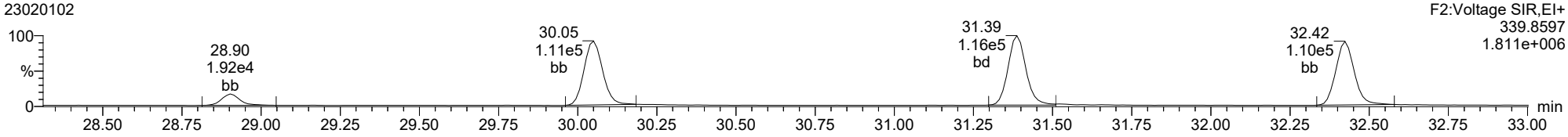

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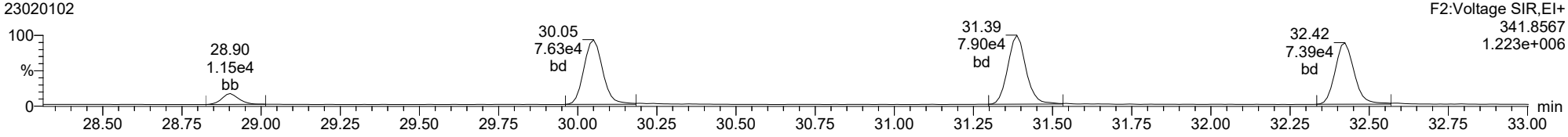

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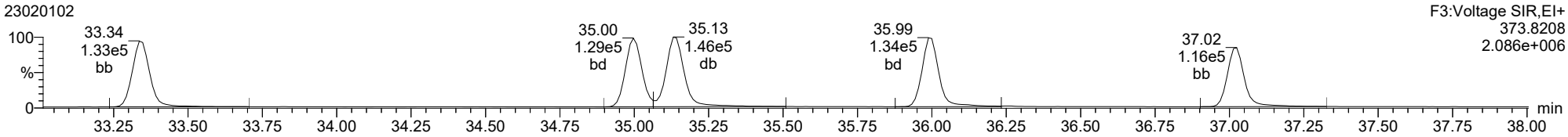

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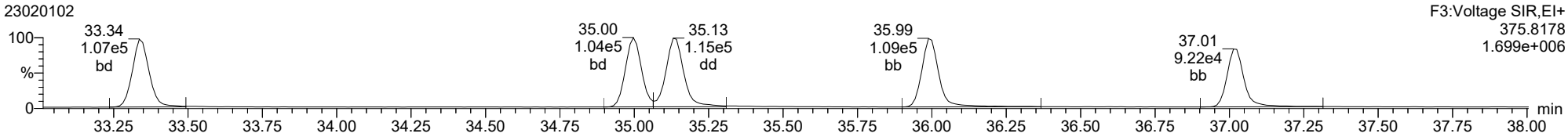

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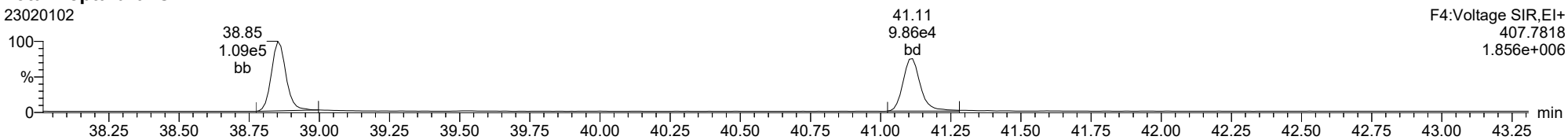

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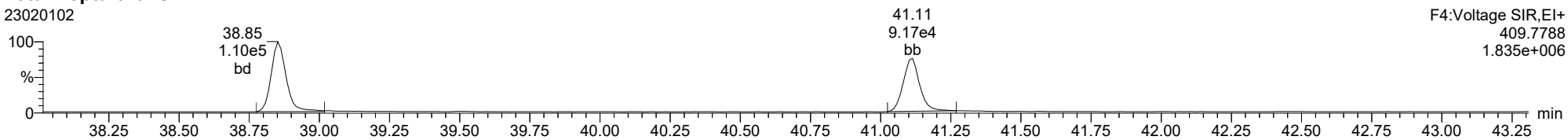

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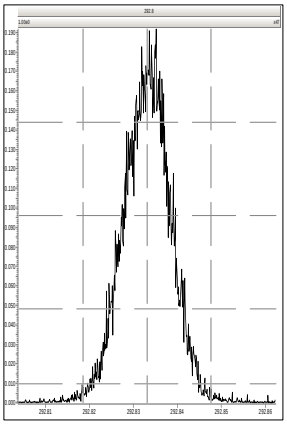

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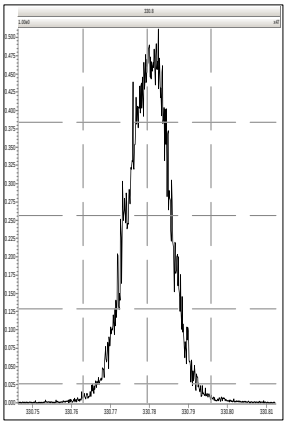

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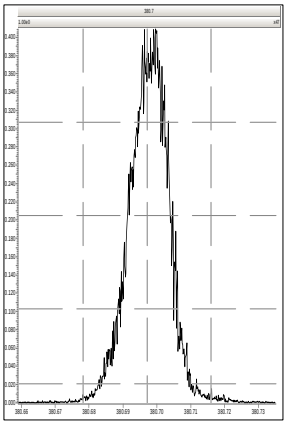

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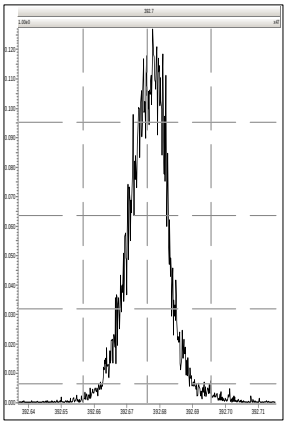

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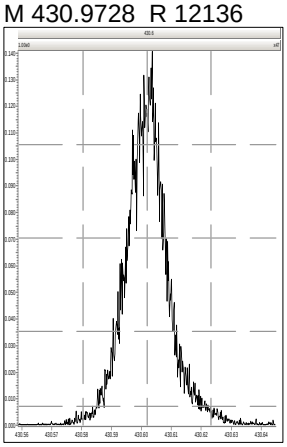

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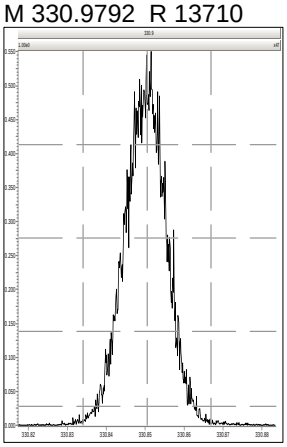

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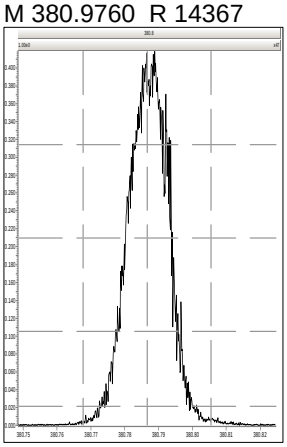

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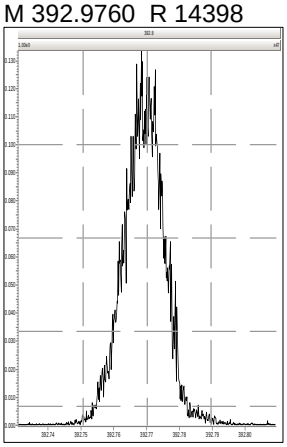

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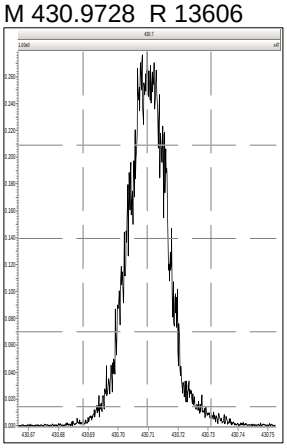

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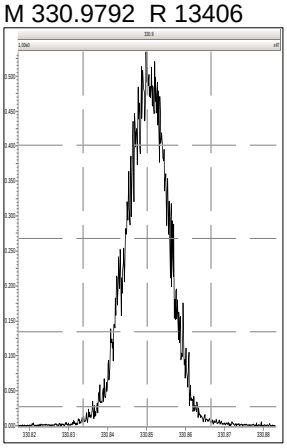

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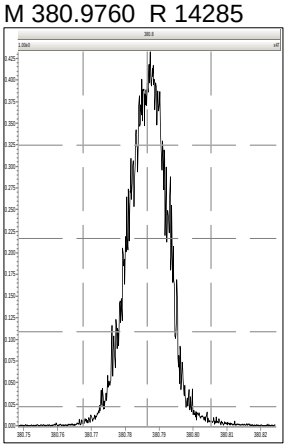

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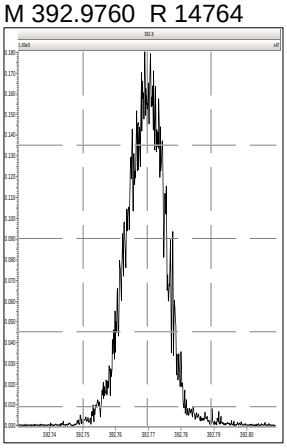
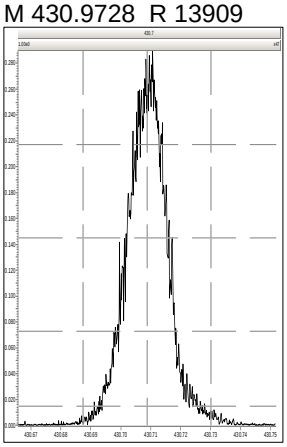


M 430.9728 R 13909



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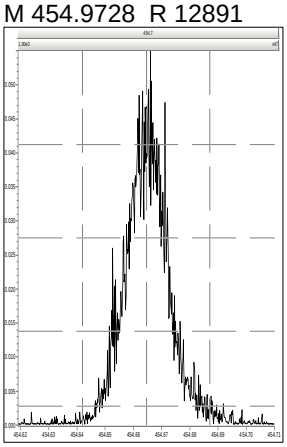

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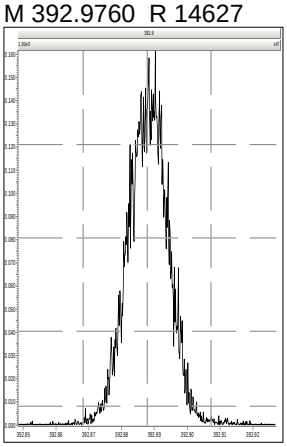

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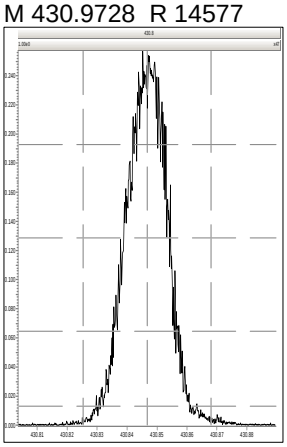

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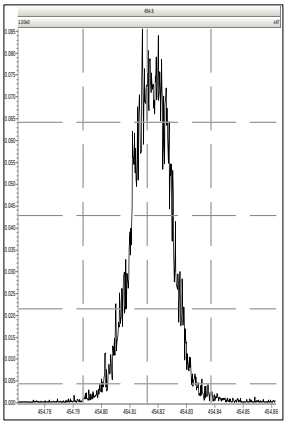

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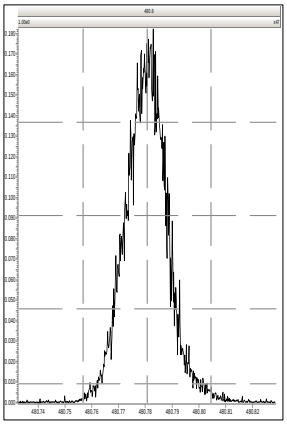

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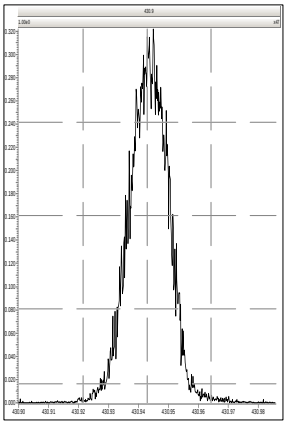

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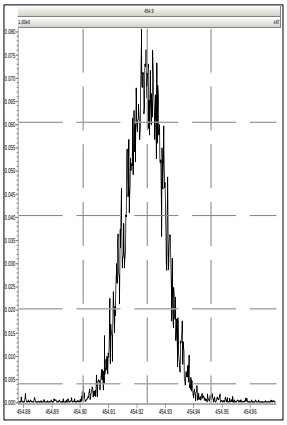

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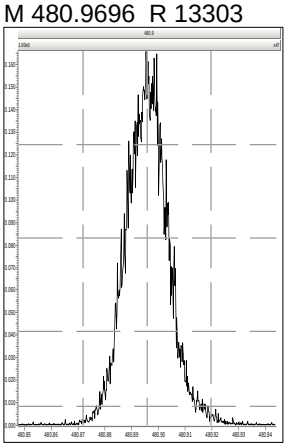

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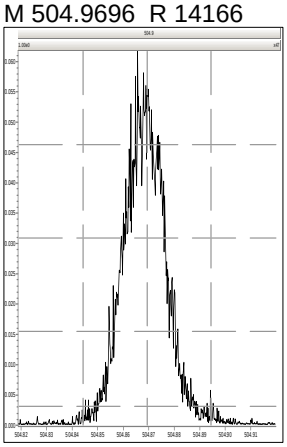
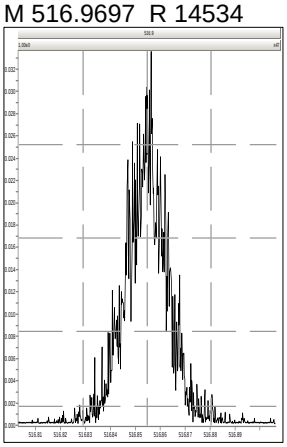
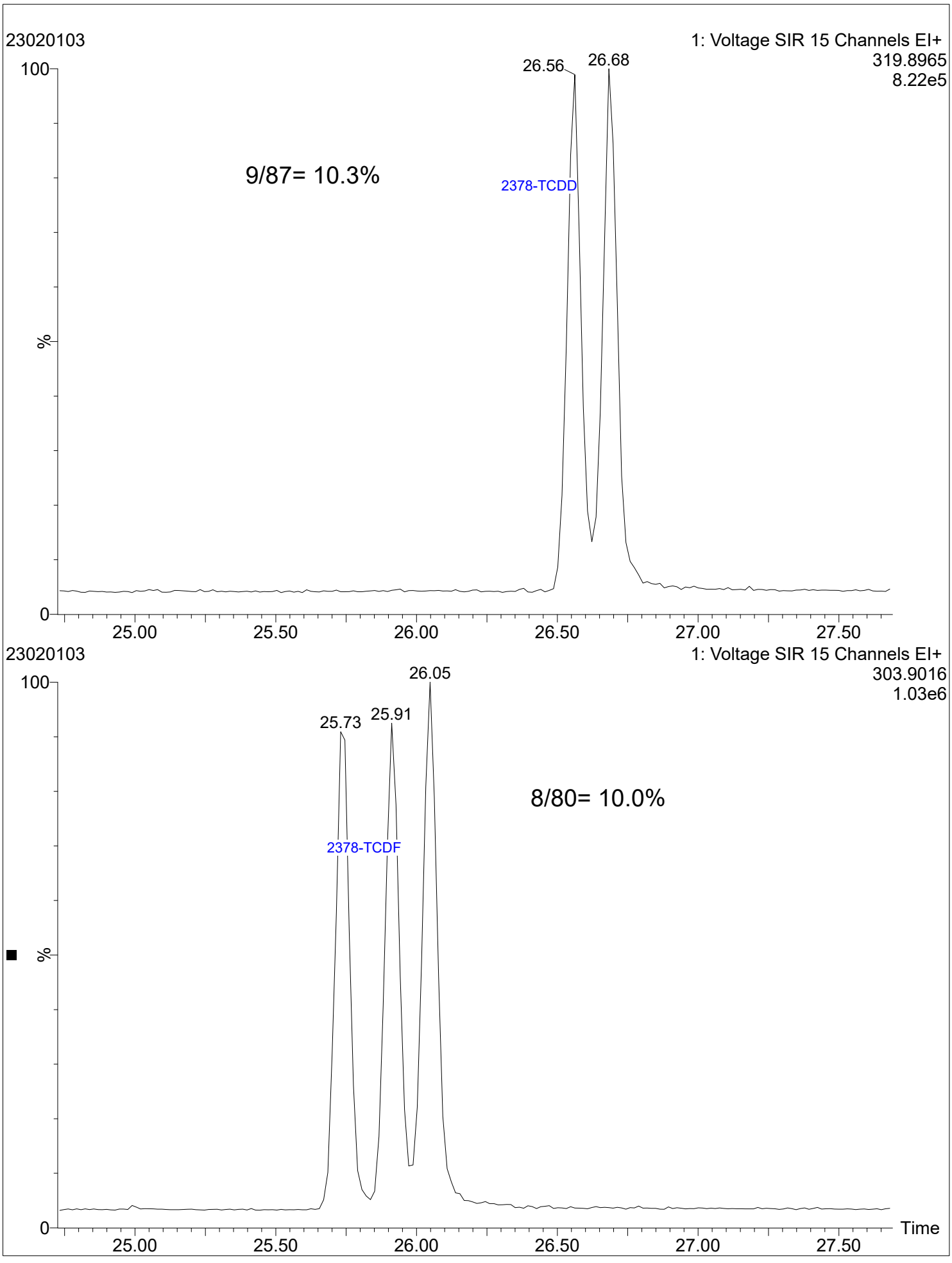


M 516.9697 R 14534




23020103
1: Voltage SIR 15 Channels EI+
319.8965
8.22e5
100
26.56
26.68
9/87= 10.3%
2378-TCDD
%
0
25.00
25.50
26.00
26.50
27.00
27.50
23020103
1: Voltage SIR 15 Channels EI+
303.9016
1.03e6
100
26.05
25.73
25.91
8/80= 10.0%
2378-TCDF
%
0
Time
25.00
25.50
26.00
26.50
27.00
27.50

Dataset: T:\Autospec\Processed Data Batch\230201ICIH.qld
Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: 03 Feb 2023 10:33:40

ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.876		0.770	1080	1324								
12378-PeCDF	30.038	1.000	4.271e3	3.157e3	0.845	1.353	1.550	952	1114	6.59e4	5.26e4	69.3	47.2	NO	bb	bd	0.524
23478-PeCDF	31.374	1.000	4.511e3	2.751e3	0.911	1.640	1.550	952	1114	6.73e4	4.18e4	70.7	37.5	NO	bb	bb	0.494
123478-HxCDF	34.995	1.001	4.104e3	3.031e3	1.182	1.354	1.240	1010	1011	5.83e4	4.33e4	57.7	42.8	NO	bd	bd	0.507
234678-HxCDF	35.987	1.000	3.766e3	3.106e3	1.229	1.212	1.240	1010	1011	5.67e4	5.22e4	56.2	51.6	NO	bb	bb	0.497
123678-HxCDF	35.129	1.000	4.222e3	3.339e3	1.248	1.264	1.240	1010	1011	6.34e4	4.53e4	62.8	44.8	NO	db	db	0.502
123789-HxCDF	37.012	1.000	3.644e3	2.921e3	1.187	1.248	1.240	1010	1011	5.58e4	4.74e4	55.3	46.9	NO	bb	bb	0.543
1234678-HpCDF	38.850	1.000	3.896e3	3.656e3	1.204	1.066	1.050	999	874	7.14e4	6.60e4	71.5	75.5	NO	bb	bb	0.550
1234789-HpCDF	41.101	1.000	3.001e3	3.100e3	1.165	0.968	1.050	999	874	4.75e4	4.72e4	47.6	54.0	NO	bb	bb	0.533
OCDF	45.376	1.006	5.786e3	6.873e3	1.186	0.842	0.890	933	1403	7.23e4	8.24e4	77.5	58.8	NO	bb	bd	1.268
2378-TCDD					1.236		0.770	1059	950								
12378-PeCDD	31.642	1.001	3.215e3	2.188e3	1.087	1.469	1.550	1079	785	5.52e4	3.24e4	51.2	41.3	NO	bd	bb	0.496
123478-HxCDD	36.109	1.000	2.827e3	2.333e3	0.987	1.212	1.240	1001	800	4.34e4	4.15e4	43.4	51.9	NO	dd	bd	0.497
123678-HxCDD	36.221	1.000	3.387e3	2.724e3	1.021	1.243	1.240	1001	800	5.33e4	4.23e4	53.3	52.9	NO	db	db	0.556
123789-HxCDD	36.611	1.011	2.961e3	2.378e3	0.985	1.245	1.240	1001	800	5.48e4	3.89e4	54.8	48.6	NO	bb	bb	0.509
1234678-HpCDD	40.354	1.000	3.173e3	3.384e3	1.253	0.938	1.050	1384	648	4.91e4	5.67e4	35.5	87.6	NO	bb	bb	0.614
OCDD					1.103		0.890	865	2890								
13C-2378-TCDF	25.867	1.007	8.880e5	1.123e6	1.768	0.791	0.770	2432	2065	1.34e7	1.70e7	5499.3	8229.7	NO	bb	bb	101.483
13C-12378-PeCDF	30.026	1.168	1.020e6	6.593e5	1.527	1.547	1.550	4351	2458	1.57e7	1.01e7	3618.6	4108.9	NO	bb	bb	98.114
13C-23478-PeCDF	31.363	1.220	9.713e5	6.405e5	1.466	1.516	1.550	4351	2458	1.47e7	9.63e6	3385.5	3917.5	NO	bb	bb	98.077
13C-123478-HxCDF	34.973	0.956	3.987e5	7.926e5	1.054	0.503	0.510	2002	3102	6.44e6	1.29e7	3217.2	4143.2	NO	bd	bd	100.084
13C-123678-HxCDF	35.118	0.960	4.078e5	7.990e5	1.080	0.510	0.510	2002	3102	6.70e6	1.31e7	3346.6	4215.9	NO	db	db	98.911
13C-234678-HxCDF	35.976	0.983	3.811e5	7.451e5	1.014	0.512	0.510	2002	3102	6.35e6	1.23e7	3171.4	3951.0	NO	bb	bb	98.285
13C-123789-HxCDF	37.001	1.011	3.510e5	6.676e5	0.928	0.526	0.510	2002	3102	5.85e6	1.13e7	2920.8	3645.7	NO	bb	bb	97.160
13C-1234678-HpCDF	38.839	1.061	3.505e5	7.899e5	1.036	0.444	0.440	2536	4120	5.96e6	1.33e7	2351.6	3236.3	NO	bb	bb	97.433
13C-1234789-HpCDF	41.090	1.123	3.059e5	6.773e5	0.905	0.452	0.440	2536	4120	4.61e6	1.03e7	1815.9	2503.7	NO	bb	bb	96.171
13C-1234-TCDD	25.700	0.000	4.959e5	6.249e5	1.000	0.794	0.770	2405	1251	7.82e6	9.77e6	3252.7	7808.7	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	5.458e5	6.834e5	1.103	0.799	0.770	2405	1251	8.30e6	1.04e7	3451.4	8324.3	NO	bb	bb	99.431
13C-12378-PeCDD	31.619	1.230	6.125e5	3.907e5	0.914	1.568	1.550	1178	1168	9.36e6	5.78e6	7947.4	4944.2	NO	bb	bd	97.913
13C-123478-HxCDD	36.098	0.987	5.901e5	4.628e5	0.933	1.275	1.240	2011	1749	9.65e6	7.66e6	4801.0	4381.0	NO	bd	bd	99.896
13C-123678-HxCDD	36.209	0.990	6.061e5	4.713e5	0.965	1.286	1.240	2011	1749	9.81e6	7.59e6	4881.2	4342.3	NO	db	db	98.864
13C-1234678-HpCDD	40.343	1.103	4.400e5	4.119e5	0.782	1.068	1.050	2377	2314	6.98e6	6.54e6	2937.2	2824.0	NO	bb	bb	96.428
13C-OCDD	45.102	1.233	8.036e5	8.792e5	0.788	0.914	0.890	2320	2081	1.01e7	1.12e7	4365.2	5363.3	NO	bb	bb	188.967
13C-123789-HxCDD	36.588	0.000	6.276e5	5.021e5	1.000	1.250	1.240	2011	1749	1.01e7	8.07e6	5029.1	4612.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	1.634e3		1.233			1257		2.25e4		17.9			bb		0.118

Dataset: T:\Autospec\Processed Data Batch\230201ICIH.qld
Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	1080	1324								
1289-TCDF					0.858		0.770	1080	1324								
13468-PECDF					1.013		1.550	869	1005								
12389-PECDF					0.844		1.550	952	1114								
123468-HXCDF					1.197		1.240	1010	1011								
1368-TCDD					1.084		0.770	1059	950								
1289-TCDD					0.975		0.770	1059	950								
12479-PECDD					1.837		1.550	1079	785								
12389-PECDD					1.252		1.550	1079	785								
124679-HXCDD					1.033		1.240	1001	800								
1234679-HPCDD					1.286		1.050	1384	648								
Total-tetrafurans			0.000e0		0.933			1080		0.00e0							
Total-penta1			0.000e0					869		0.00e0							
Total-pentafurans			8.782e3		0.866			952		1.33e5							1.018
Total-hexafurans			1.574e4		1.208			1010		2.34e5							2.049
Total-heptafurans			6.897e3		1.185			999		1.19e5							1.082
Total-Furans			3.720e4		1.067			1080		5.59e5							5.417
Total-tetradioxins			0.000e0		1.099			1059		0.00e0							
Total-pentadioxins			3.215e3		1.392			1079		5.52e4							0.496
Total-hexadioxins			9.529e3		1.007			1001		1.58e5							1.624
Total-heptadioxins			3.173e3		1.269			1384		4.91e4							0.614
Total-Dioxins			1.601e4		1.165			1059		2.65e5							2.750
Total-TEQ			5.321e4					1059		8.24e5							8.168
FUNCTION1 PFK			3.664e5					577038		8.77e6							
FUNCTION2 PFK			5.803e5					248887		1.44e7							0.000
FUNCTION3 PFK			1.568e5					462057		5.36e6							0.000
FUNCTION4 PFK			0.000e0					300538		0.00e0							
FUNCTION5 PFK			6.700e4					200836		2.35e6							
FUNCTION1 HXCD...			8.333e2					859		1.29e4							0.000
FUNCTION1 HPCD...			1.557e3					919		1.93e4							0.000
FUNCTION2 HPCD...			7.646e2					998		1.65e4							0.000
FUNCTION3 OCDPE			1.789e3					773		2.75e4							0.000
FUNCTION4 NCDPE			1.690e2					924		5.87e3							0.000
FUNCTION5 DCDPE			8.847e1					800		2.49e3							0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: 03 Feb 2023 10:33:40

ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.37	4.511e3	2.751e3	0.911	1.64	1.55	70.7	YES	NO	bb	bb	0.494
2	12378-PeCDF	30.04	4.271e3	3.157e3	0.845	1.35	1.55	69.3	YES	NO	bb	bd	0.524

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.01	3.644e3	2.921e3	1.187	1.25	1.24	55.3	YES	NO	bb	bb	0.543
2	234678-HxCDF	35.99	3.766e3	3.106e3	1.229	1.21	1.24	56.2	YES	NO	bb	bb	0.497
3	123678-HxCDF	35.13	4.222e3	3.339e3	1.248	1.26	1.24	62.8	YES	NO	db	db	0.502
4	123478-HxCDF	35.00	4.104e3	3.031e3	1.182	1.35	1.24	57.7	YES	NO	bd	bd	0.507

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	3.001e3	3.100e3	1.165	0.97	1.05	47.6	YES	NO	bb	bb	0.533
2	1234678-HpCDF	38.85	3.896e3	3.656e3	1.204	1.07	1.05	71.5	YES	NO	bb	bb	0.550

ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.37	4.511e3	2.751e3	0.911	1.64	1.55	70.7	YES	NO	bb	bb	0.494
2	12378-PeCDF	30.04	4.271e3	3.157e3	0.845	1.35	1.55	69.3	YES	NO	bb	bd	0.524
3	123789-HxCDF	37.01	3.644e3	2.921e3	1.187	1.25	1.24	55.3	YES	NO	bb	bb	0.543
4	234678-HxCDF	35.99	3.766e3	3.106e3	1.229	1.21	1.24	56.2	YES	NO	bb	bb	0.497
5	123678-HxCDF	35.13	4.222e3	3.339e3	1.248	1.26	1.24	62.8	YES	NO	db	db	0.502
6	123478-HxCDF	35.00	4.104e3	3.031e3	1.182	1.35	1.24	57.7	YES	NO	bd	bd	0.507
7	1234789-HpCDF	41.10	3.001e3	3.100e3	1.165	0.97	1.05	47.6	YES	NO	bb	bb	0.533
8	1234678-HpCDF	38.85	3.896e3	3.656e3	1.204	1.07	1.05	71.5	YES	NO	bb	bb	0.550
9	OCDF	45.38	5.786e3	6.873e3	1.186	0.84	0.89	77.5	YES	NO	bb	bd	1.268

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.64	3.215e3	2.188e3	1.087	1.47	1.55	51.2	YES	NO	bd	bb	0.496

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.61	2.961e3	2.378e3	0.985	1.24	1.24	54.8	YES	NO	bb	bb	0.509
2	123678-HxCDD	36.22	3.387e3	2.724e3	1.021	1.24	1.24	53.3	YES	NO	db	db	0.556
3	123478-HxCDD	36.11	2.827e3	2.333e3	0.987	1.21	1.24	43.4	YES	NO	dd	bd	0.497
4	Total-hexadioxins	35.12	3.540e2	3.166e2	1.007	1.12	1.24	6.7	YES	NO	db	bb	0.063

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	3.173e3	3.384e3	1.253	0.94	1.05	35.5	YES	NO	bb	bb	0.614

ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Dioxins	22.28	9.641e1	1.412e2	1.165	0.68	0.77	2.5	NO	NO	bd	bb	0.017
2	12378-PeCDD	31.64	3.215e3	2.188e3	1.087	1.47	1.55	51.2	YES	NO	bd	bb	0.496
3	123789-HxCDD	36.61	2.961e3	2.378e3	0.985	1.24	1.24	54.8	YES	NO	bb	bb	0.509
4	123678-HxCDD	36.22	3.387e3	2.724e3	1.021	1.24	1.24	53.3	YES	NO	db	db	0.556
5	123478-HxCDD	36.11	2.827e3	2.333e3	0.987	1.21	1.24	43.4	YES	NO	dd	bd	0.497
6	Total-hexadioxins	35.12	3.540e2	3.166e2	1.007	1.12	1.24	6.7	YES	NO	db	bb	0.063
7	1234678-HpCDD	40.35	3.173e3	3.384e3	1.253	0.94	1.05	35.5	YES	NO	bb	bb	0.614

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.37	4.511e3	2.751e3	0.911	1.64	1.55	70.7	YES	NO	bb	bb	0.494
2	12378-PeCDF	30.04	4.271e3	3.157e3	0.845	1.35	1.55	69.3	YES	NO	bb	bd	0.524
3	123789-HxCDF	37.01	3.644e3	2.921e3	1.187	1.25	1.24	55.3	YES	NO	bb	bb	0.543
4	234678-HxCDF	35.99	3.766e3	3.106e3	1.229	1.21	1.24	56.2	YES	NO	bb	bb	0.497
5	123678-HxCDF	35.13	4.222e3	3.339e3	1.248	1.26	1.24	62.8	YES	NO	db	db	0.502
6	123478-HxCDF	35.00	4.104e3	3.031e3	1.182	1.35	1.24	57.7	YES	NO	bd	bd	0.507
7	1234789-HpCDF	41.10	3.001e3	3.100e3	1.165	0.97	1.05	47.6	YES	NO	bb	bb	0.533
8	1234678-HpCDF	38.85	3.896e3	3.656e3	1.204	1.07	1.05	71.5	YES	NO	bb	bb	0.550
9	OCDF	45.38	5.786e3	6.873e3	1.186	0.84	0.89	77.5	YES	NO	bb	bd	1.268
10	Total-Dioxins	22.28	9.641e1	1.412e2	1.165	0.68	0.77	2.5	NO	NO	bd	bb	0.017
11	12378-PeCDD	31.64	3.215e3	2.188e3	1.087	1.47	1.55	51.2	YES	NO	bd	bb	0.496
12	123789-HxCDD	36.61	2.961e3	2.378e3	0.985	1.24	1.24	54.8	YES	NO	bb	bb	0.509
13	123678-HxCDD	36.22	3.387e3	2.724e3	1.021	1.24	1.24	53.3	YES	NO	db	db	0.556
14	123478-HxCDD	36.11	2.827e3	2.333e3	0.987	1.21	1.24	43.4	YES	NO	dd	bd	0.497
15	Total-hexadioxins	35.12	3.540e2	3.166e2	1.007	1.12	1.24	6.7	YES	NO	db	bb	0.063
16	1234678-HpCDD	40.35	3.173e3	3.384e3	1.253	0.94	1.05	35.5	YES	NO	bb	bb	0.614

ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.58	8.439e4					1.7	NO		bb		
2	FUNCTION1 PFK	27.45	2.771e4					1.5	NO		bb		
3	FUNCTION1 PFK	27.17	2.484e4					1.4	NO		bb		
4	FUNCTION1 PFK	26.40	1.936e4					1.3	NO		bb		
5	FUNCTION1 PFK	26.11	4.980e4					1.6	NO		bb		
6	FUNCTION1 PFK	25.62	1.288e4					0.9	NO		bb		
7	FUNCTION1 PFK	23.40	2.240e4					0.8	NO		bb		
8	FUNCTION1 PFK	22.69	1.568e4					1.0	NO		bb		
9	FUNCTION1 PFK	22.18	2.261e4					1.3	NO		bb		
10	FUNCTION1 PFK	22.10	4.769e4					1.5	NO		bb		
11	FUNCTION1 PFK	21.98	1.078e4					0.8	NO		bb		
12	FUNCTION1 PFK	21.92	2.828e4					1.5	NO		bb		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.52	1.267e4					1.4	NO		dd		0.000
2	FUNCTION2 PFK	29.46	2.595e4					2.1	NO		bd		0.000
3	FUNCTION2 PFK	29.36	9.698e3					1.3	NO		db		0.000
4	FUNCTION2 PFK	29.26	3.530e4					1.9	NO		dd		0.000
5	FUNCTION2 PFK	29.20	3.010e4					2.1	NO		dd		0.000
6	FUNCTION2 PFK	29.12	1.008e4					1.1	NO		dd		0.000
7	FUNCTION2 PFK	29.07	1.252e4					1.4	NO		bd		0.000
8	FUNCTION2 PFK	29.00	5.699e3					0.9	NO		db		0.000
9	FUNCTION2 PFK	28.97	2.160e4					1.6	NO		dd		0.000
10	FUNCTION2 PFK	28.81	1.772e4					0.9	NO		bd		0.000
11	FUNCTION2 PFK	28.71	1.302e4					0.8	NO		bb		0.000
12	FUNCTION2 PFK	28.64	1.871e3					0.4	NO		bb		0.000
13	FUNCTION2 PFK	28.51	4.178e3					0.8	NO		bb		0.000
14	FUNCTION2 PFK	28.42	7.027e3					0.8	NO		bb		0.000
15	FUNCTION2 PFK	28.34	4.550e3					0.9	NO		bb		0.000
16	FUNCTION2 PFK	31.02	8.571e3					1.3	NO		dd		0.000
17	FUNCTION2 PFK	30.97	2.370e4					2.0	NO		dd		0.000
18	FUNCTION2 PFK	30.86	2.515e4					1.6	NO		dd		0.000
19	FUNCTION2 PFK	30.83	6.842e3					1.2	NO		bd		0.000
20	FUNCTION2 PFK	30.75	1.931e4					1.6	NO		bb		0.000
21	FUNCTION2 PFK	30.62	1.066e4					1.2	NO		db		0.000
22	FUNCTION2 PFK	30.58	5.541e3					1.0	NO		bd		0.000
23	FUNCTION2 PFK	30.53	9.069e3					1.2	NO		bb		0.000
24	FUNCTION2 PFK	30.44	1.277e4					1.2	NO		db		0.000
25	FUNCTION2 PFK	30.39	1.436e4					1.3	NO		bd		0.000
26	FUNCTION2 PFK	30.19	7.186e3					0.8	NO		bb		0.000
27	FUNCTION2 PFK	30.03	1.599e4					1.2	NO		bb		0.000
28	FUNCTION2 PFK	29.91	1.518e3					0.4	NO		bb		0.000
29	FUNCTION2 PFK	29.80	6.143e3					0.8	NO		bb		0.000
30	FUNCTION2 PFK	29.65	1.120e4					1.0	NO		db		0.000
31	FUNCTION2 PFK	29.56	1.510e4					1.6	NO		dd		0.000
32	FUNCTION2 PFK	32.43	5.171e3					1.0	NO		db		0.000
33	FUNCTION2 PFK	32.40	8.945e3					1.4	NO		bd		0.000
34	FUNCTION2 PFK	32.33	8.546e3					0.8	NO		db		0.000
35	FUNCTION2 PFK	32.28	1.923e3					0.6	NO		bd		0.000
36	FUNCTION2 PFK	32.23	9.966e3					1.3	NO		db		0.000
37	FUNCTION2 PFK	32.18	8.875e3					1.2	NO		bd		0.000

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	32.09	1.451e4					1.2	NO		db		0.000
39	FUNCTION2 PFK	32.04	5.136e3					0.8	NO		dd		0.000
40	FUNCTION2 PFK	32.01	7.259e3					1.1	NO		bd		0.000
41	FUNCTION2 PFK	31.94	6.720e3					0.8	NO		bb		0.000
42	FUNCTION2 PFK	31.74	5.803e3					0.8	NO		bb		0.000
43	FUNCTION2 PFK	31.61	6.954e3					1.2	NO		db		0.000
44	FUNCTION2 PFK	31.59	1.111e4					1.2	NO		bd		0.000
45	FUNCTION2 PFK	31.45	7.843e2					0.3	NO		bb		0.000
46	FUNCTION2 PFK	31.41	1.192e4					1.2	NO		bb		0.000
47	FUNCTION2 PFK	31.07	1.965e3					0.4	NO		db		0.000
48	FUNCTION2 PFK	32.80	6.019e3					1.1	NO		db		0.000
49	FUNCTION2 PFK	32.77	9.084e3					1.2	NO		bd		0.000
50	FUNCTION2 PFK	32.64	3.494e4					1.5	NO		db		0.000
51	FUNCTION2 PFK	32.60	5.286e3					0.9	NO		dd		0.000
52	FUNCTION2 PFK	32.53	4.308e3					0.5	NO		bd		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.14	4.336e3					0.7	NO		db		0.000
2	FUNCTION3 PFK	36.11	5.755e3					0.7	NO		bd		0.000
3	FUNCTION3 PFK	36.06	7.687e3					0.9	NO		bb		0.000
4	FUNCTION3 PFK	36.02	1.796e4					1.6	NO		bb		0.000
5	FUNCTION3 PFK	35.81	1.736e4					1.2	NO		bb		0.000
6	FUNCTION3 PFK	35.69	5.338e4					1.7	NO		bb		0.000
7	FUNCTION3 PFK	35.20	3.054e3					0.6	NO		bb		0.000
8	FUNCTION3 PFK	34.12	1.673e4					1.2	NO		bb		0.000
9	FUNCTION3 PFK	33.89	1.577e4					1.4	NO		bb		0.000
10	FUNCTION3 PFK	33.50	1.199e4					1.1	NO		bb		0.000
11	FUNCTION3 PFK	36.41	2.803e3					0.5	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.30	6.353e3					1.3	NO		bb		
2	FUNCTION5 PFK	45.94	1.054e4					1.7	NO		bb		
3	FUNCTION5 PFK	45.79	1.187e3					0.6	NO		bb		
4	FUNCTION5 PFK	45.60	4.997e3					1.0	NO		bb		
5	FUNCTION5 PFK	45.34	9.354e3					1.4	NO		db		
6	FUNCTION5 PFK	45.31	2.478e3					1.0	NO		bd		
7	FUNCTION5 PFK	45.26	5.509e3					1.0	NO		bb		
8	FUNCTION5 PFK	43.99	1.588e4					1.1	NO		bb		
9	FUNCTION5 PFK	43.56	6.413e3					1.4	NO		db		
10	FUNCTION5 PFK	43.53	4.291e3					1.1	NO		bd		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	22.28	8.501e1					1.7	NO		bb		0.000
2	FUNCTION1 HXCD...	21.98	1.104e2					2.3	NO		bb		0.000
3	FUNCTION1 HXCD...	26.53	2.072e2					2.6	NO		bb		0.000
4	FUNCTION1 HXCD...	26.29	8.524e1					1.7	NO		bb		0.000
5	FUNCTION1 HXCD...	25.91	1.063e2					2.1	NO		db		0.000
6	FUNCTION1 HXCD...	25.87	8.437e1					1.9	NO		bd		0.000
7	FUNCTION1 HXCD...	25.00	7.918e1					1.2	NO		bb		0.000
8	FUNCTION1 HXCD...	24.64	7.557e1					1.6	NO		bb		0.000

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ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.37	8.294e1					2.3	NO		dd		0.000
2	FUNCTION1 HPCD...	26.31	7.445e1					1.6	NO		bd		0.000
3	FUNCTION1 HPCD...	25.85	3.079e2					2.6	NO		db		0.000
4	FUNCTION1 HPCD...	25.72	1.912e2					2.1	NO		bd		0.000
5	FUNCTION1 HPCD...	25.35	9.102e1					2.4	NO		bb		0.000
6	FUNCTION1 HPCD...	24.26	7.312e1					0.4	NO		bb		0.000
7	FUNCTION1 HPCD...	23.34	2.139e2					1.8	NO		bb		0.000
8	FUNCTION1 HPCD...	22.66	8.267e1					0.8	NO		bb		0.000
9	FUNCTION1 HPCD...	21.38	7.618e1					1.4	NO		bb		0.000
10	FUNCTION1 HPCD...	27.98	9.946e1					3.1	YES		bb		0.000
11	FUNCTION1 HPCD...	26.99	8.404e1					1.1	NO		bb		0.000
12	FUNCTION1 HPCD...	26.52	1.802e2					1.5	NO		db		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.64	1.571e2					2.9	NO		bb		0.000
2	FUNCTION2 HPCD...	31.35	7.515e1					1.4	NO		bb		0.000
3	FUNCTION2 HPCD...	30.72	8.443e1					1.4	NO		bb		0.000
4	FUNCTION2 HPCD...	30.46	1.124e2					2.4	NO		bb		0.000
5	FUNCTION2 HPCD...	30.06	1.840e2					5.0	YES		bb		0.000
6	FUNCTION2 HPCD...	28.49	7.182e1					1.7	NO		bb		0.000
7	FUNCTION2 HPCD...	28.27	7.966e1					1.8	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.88	1.145e2					2.3	NO		bd		0.000
2	FUNCTION3 OCDPE	35.18	2.003e2					3.4	YES		bb		0.000
3	FUNCTION3 OCDPE	34.09	1.081e2					2.7	NO		db		0.000
4	FUNCTION3 OCDPE	34.04	7.302e1					3.0	YES		bd		0.000
5	FUNCTION3 OCDPE	37.75	1.221e2					3.1	YES		bb		0.000
6	FUNCTION3 OCDPE	36.64	1.574e2					3.5	YES		db		0.000
7	FUNCTION3 OCDPE	36.60	2.003e2					4.2	YES		bd		0.000
8	FUNCTION3 OCDPE	36.20	2.806e2					4.2	YES		db		0.000
9	FUNCTION3 OCDPE	36.12	3.227e2					5.3	YES		dd		0.000
10	FUNCTION3 OCDPE	35.99	2.101e2					3.8	YES		dd		0.000

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ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.48	9.634e1					2.9	NO		bb		0.000
2	FUNCTION4 NCDPE	38.52	7.264e1					3.4	YES		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.32	8.847e1					3.1	YES		bb		0.000

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Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

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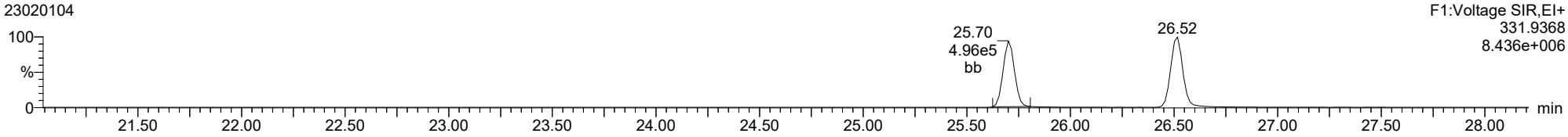
Calibration: 03 Feb 2023 10:33:40

ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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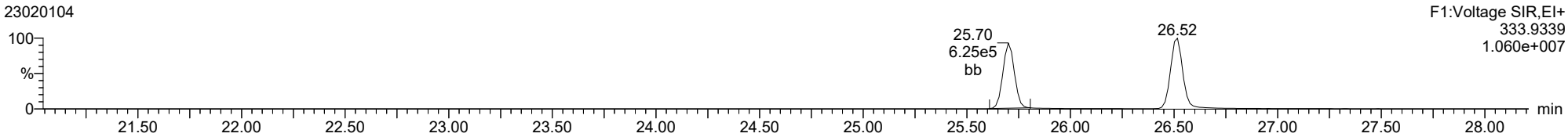

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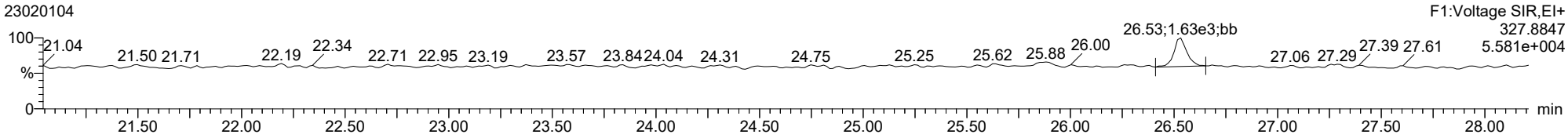

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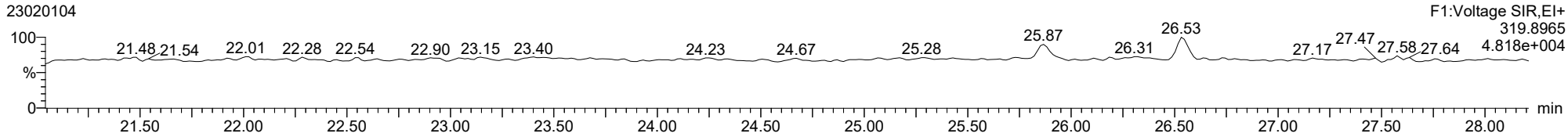

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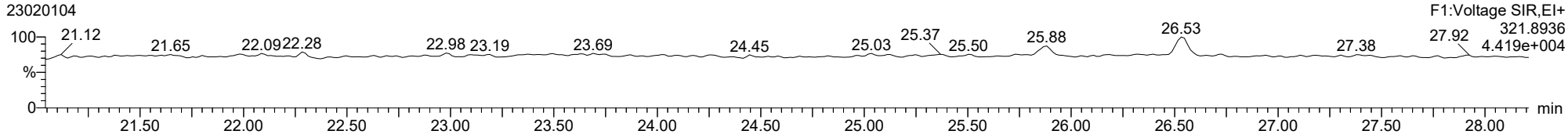

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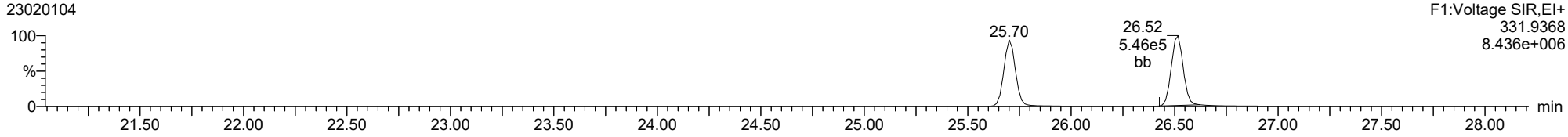

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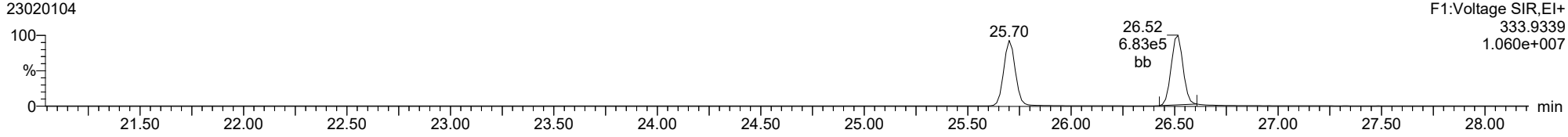

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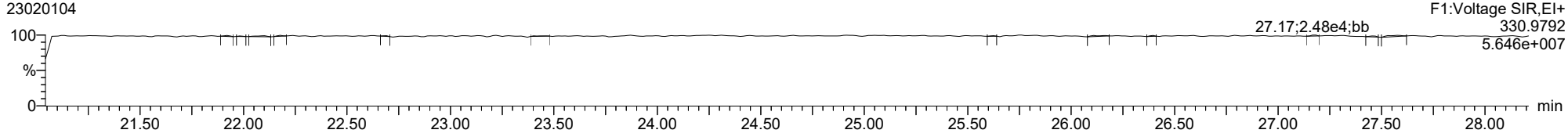

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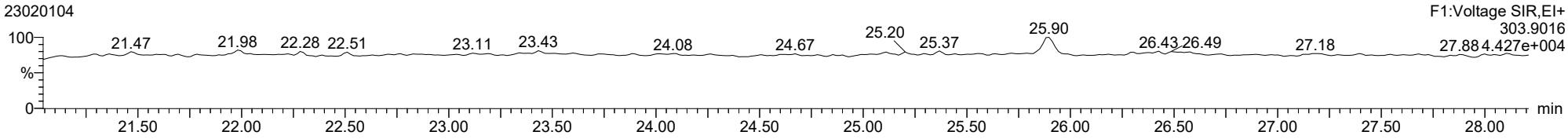

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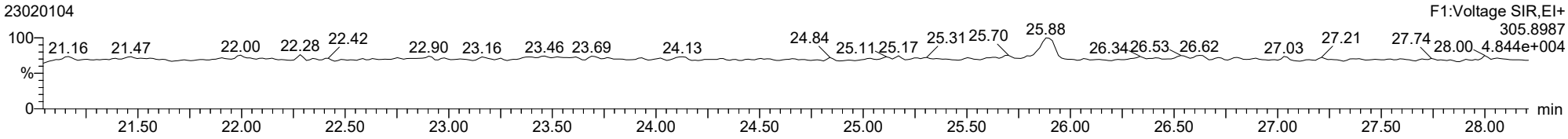

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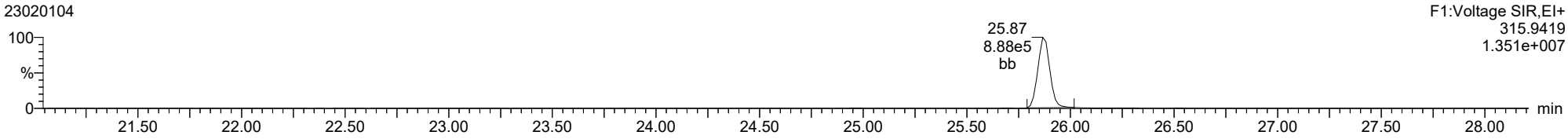

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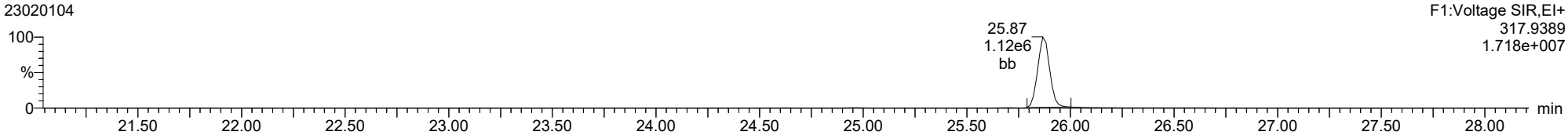

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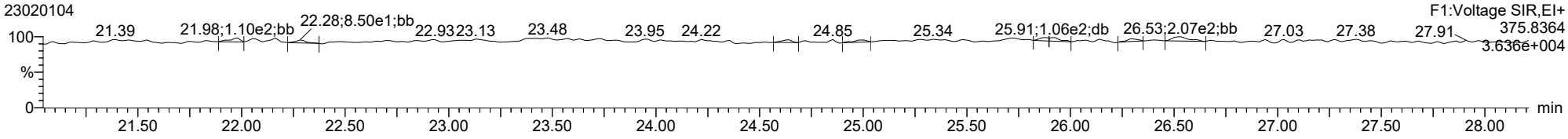

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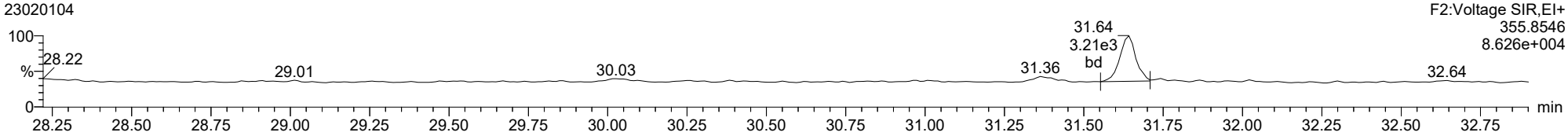

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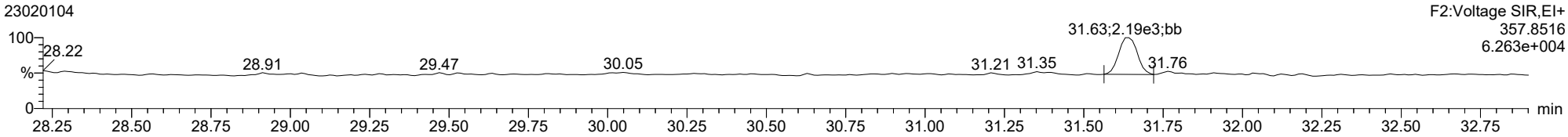

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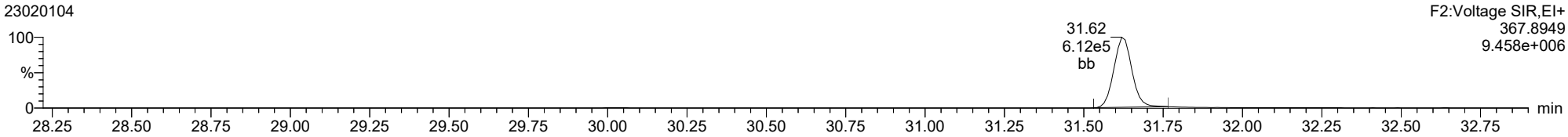

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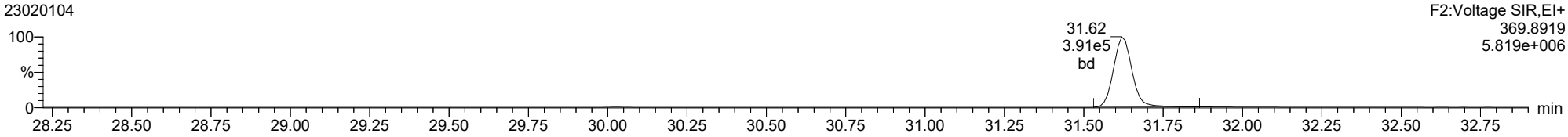

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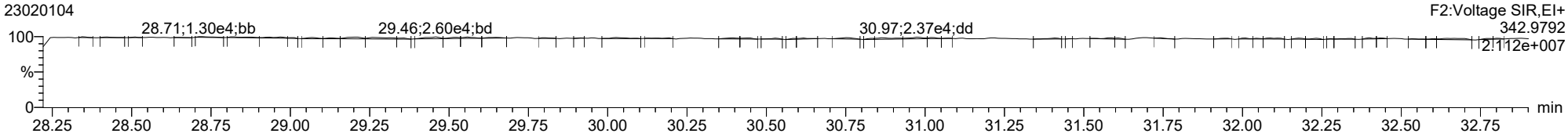

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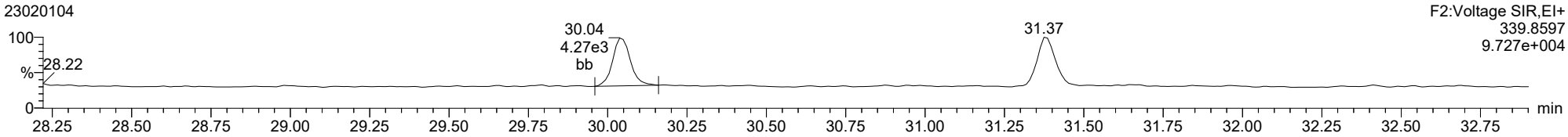

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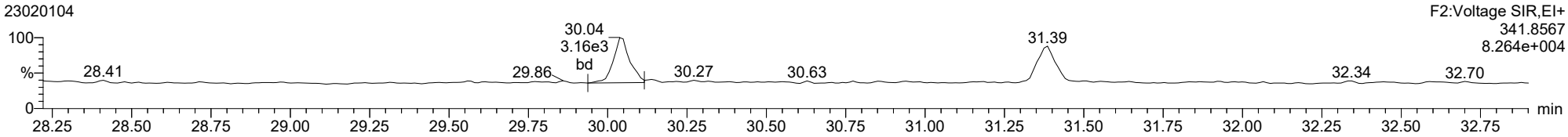

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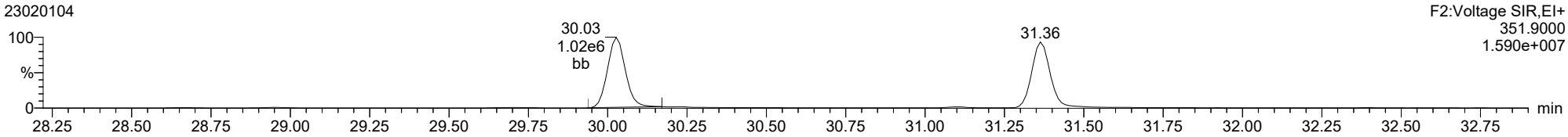

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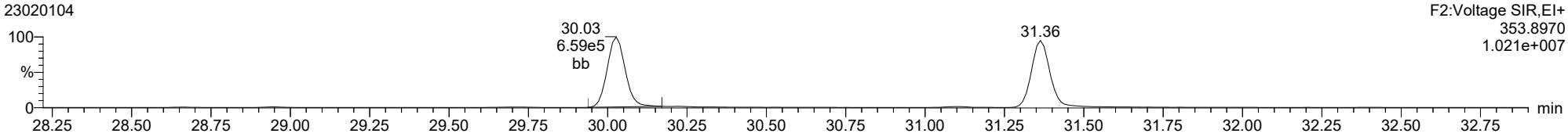

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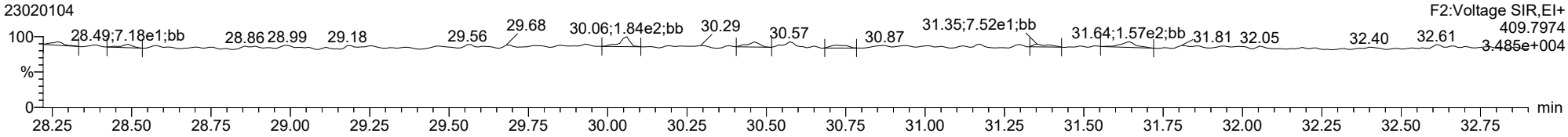

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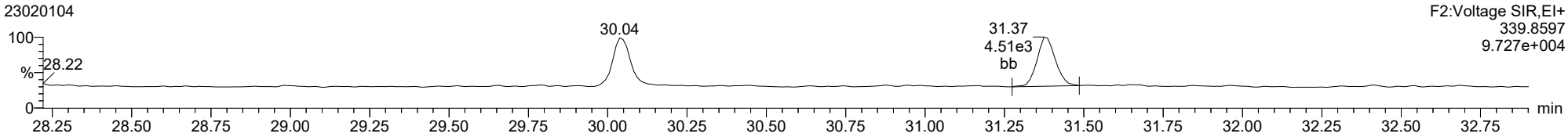
23478-PeCDF



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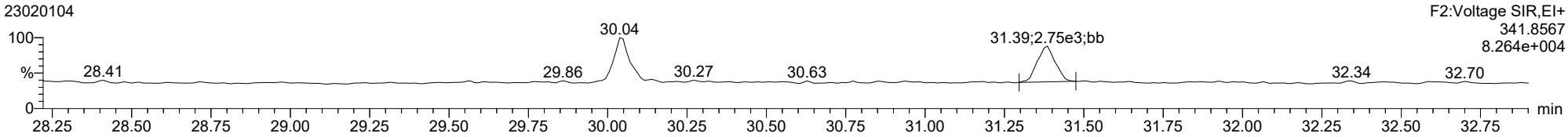

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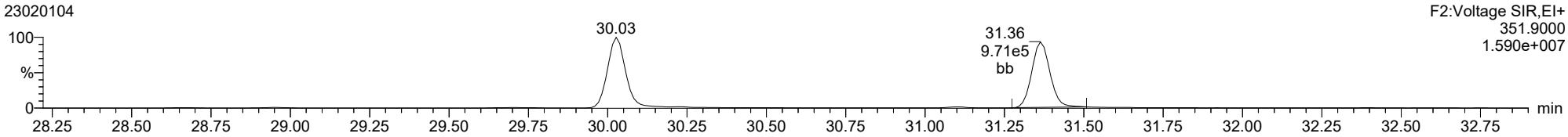

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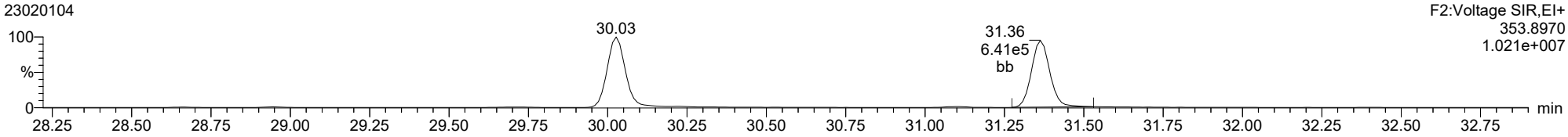

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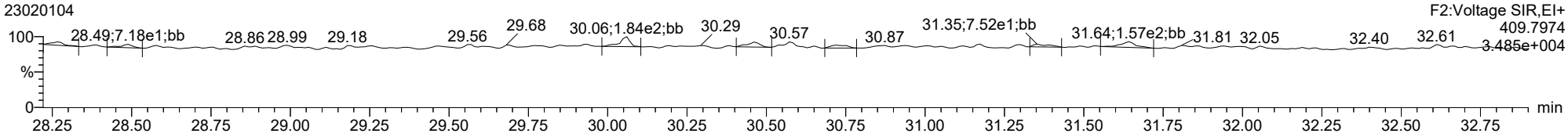

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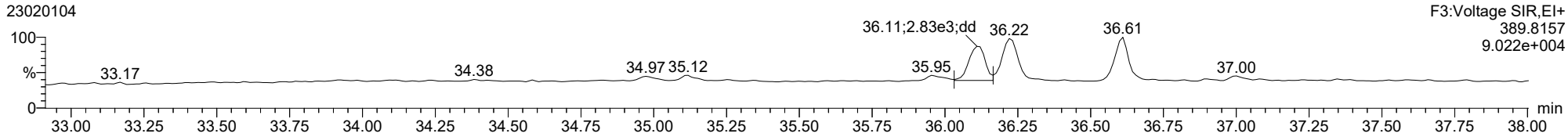

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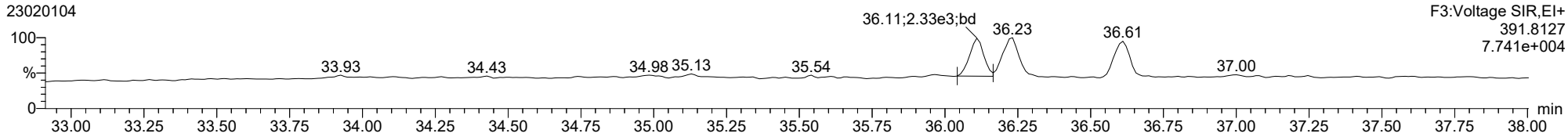

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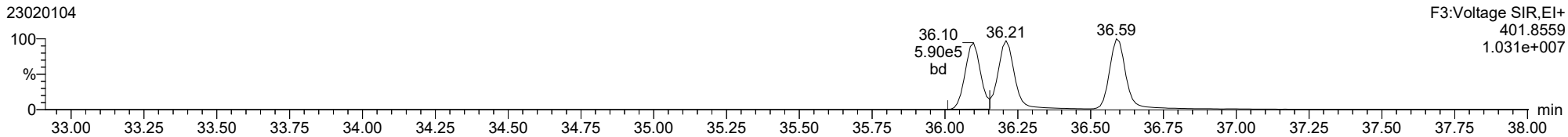

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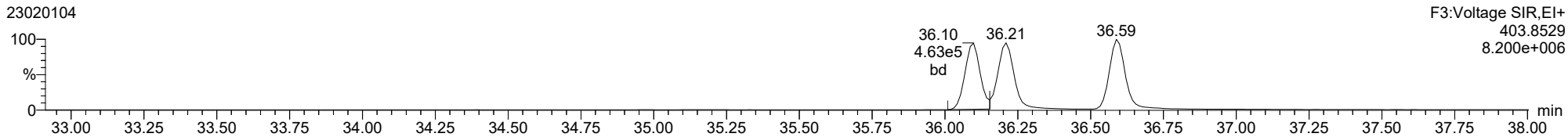

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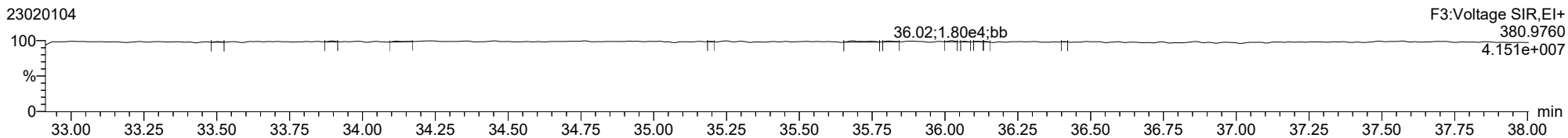

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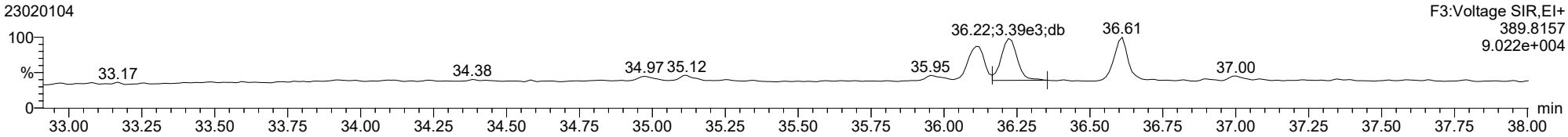

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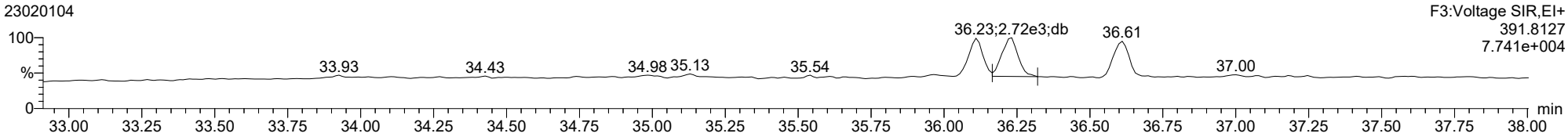

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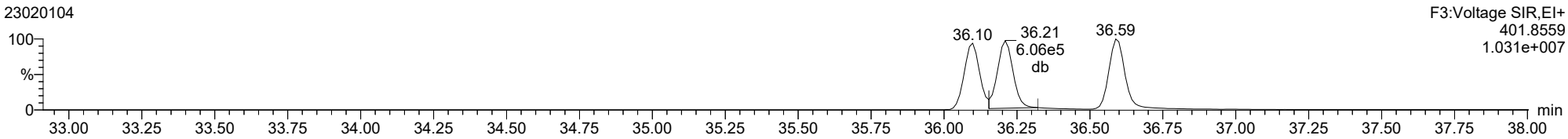

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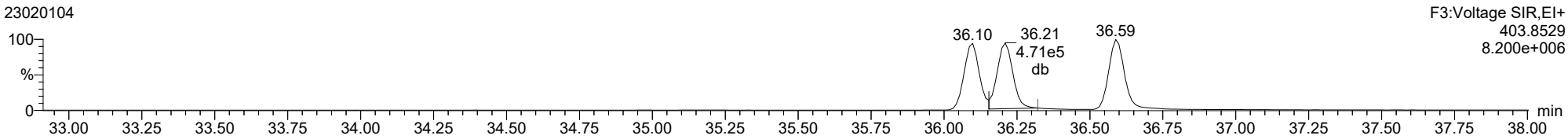

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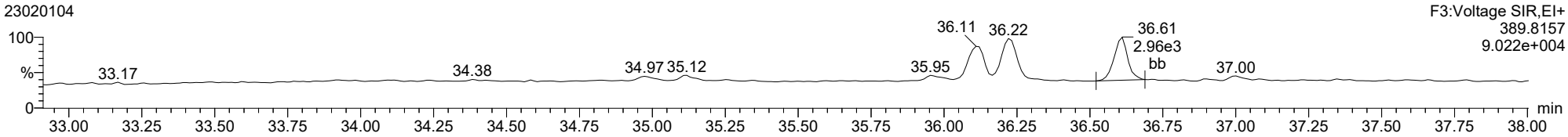

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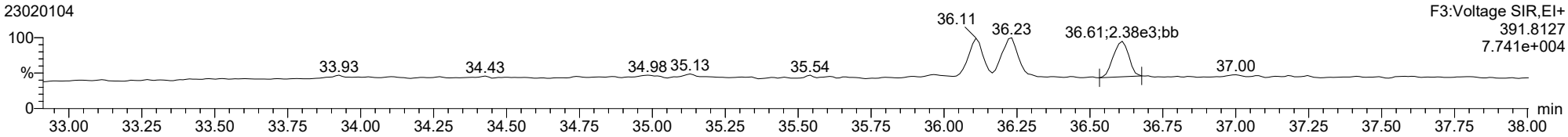

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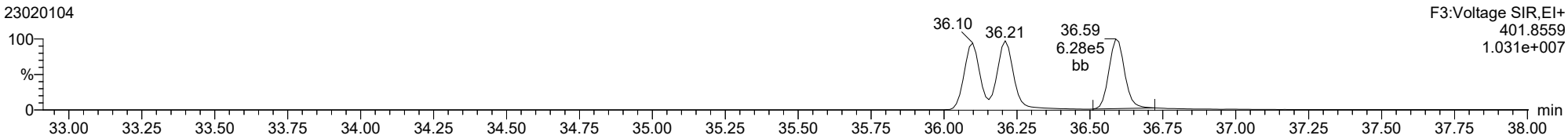

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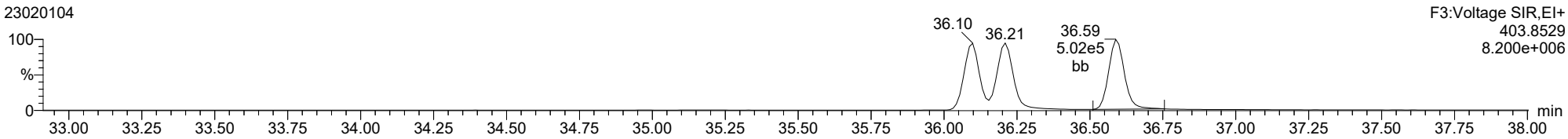

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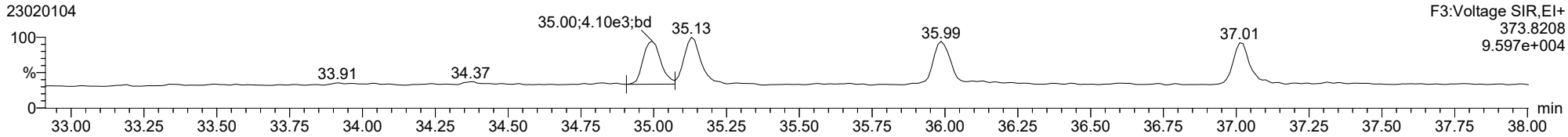

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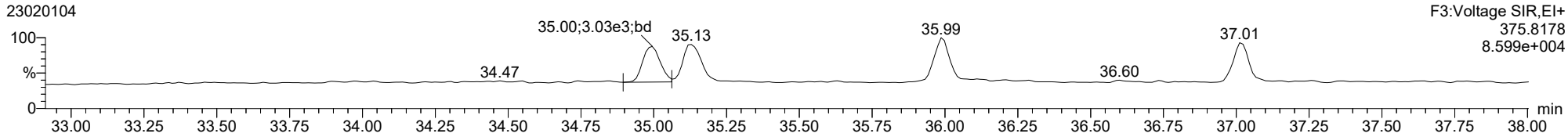

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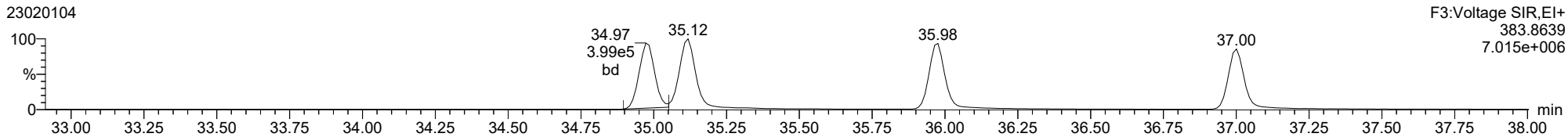

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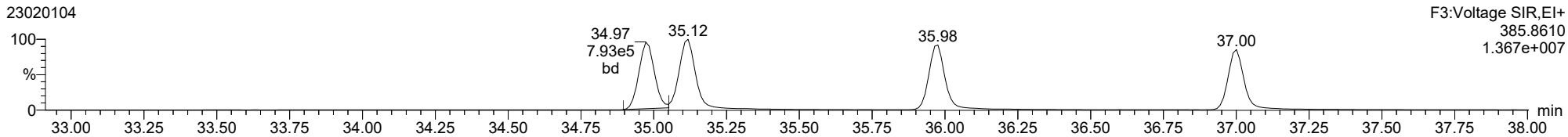

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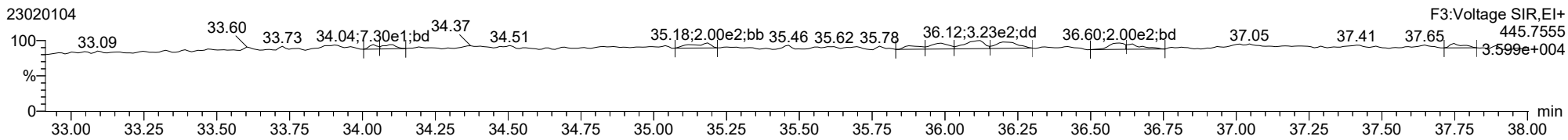

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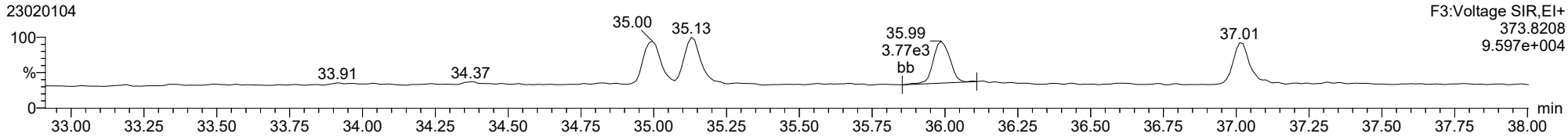

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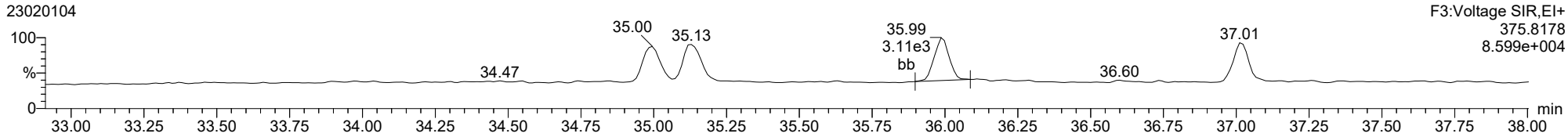

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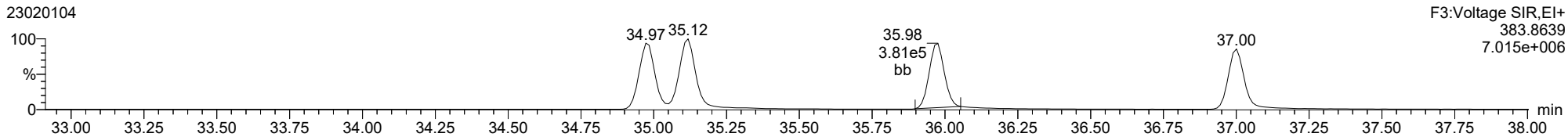

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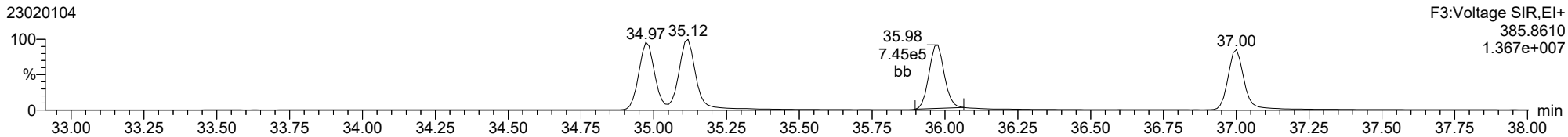

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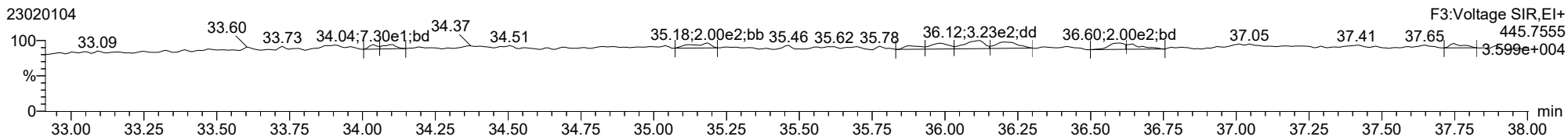

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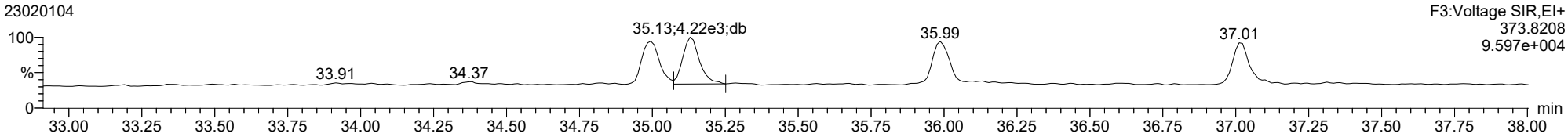

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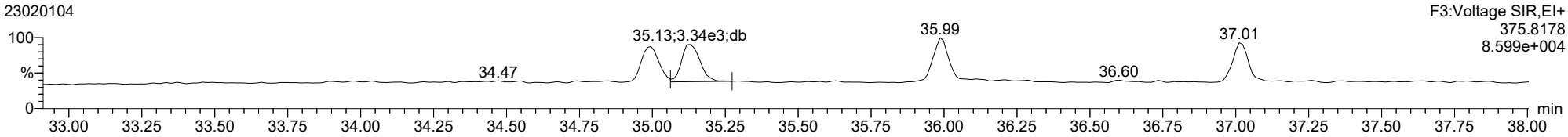

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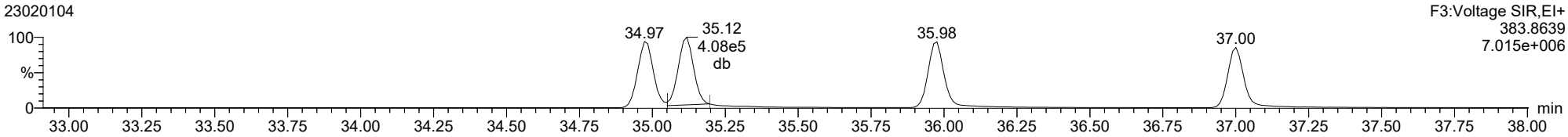

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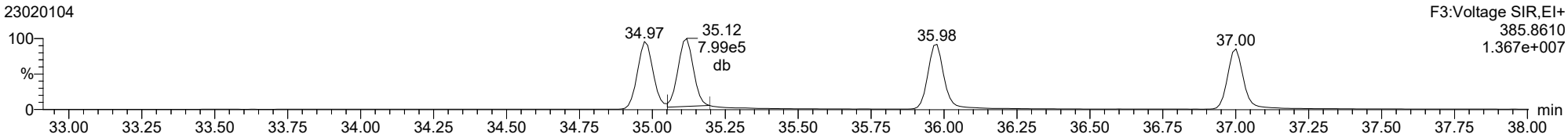

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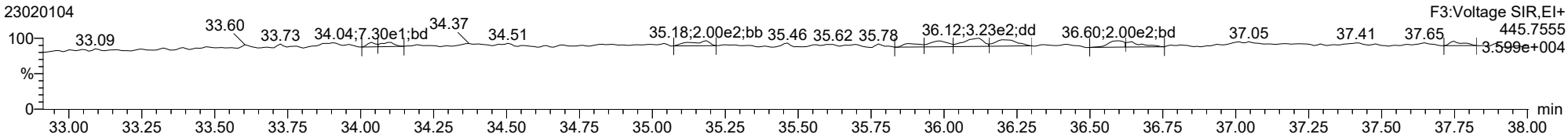

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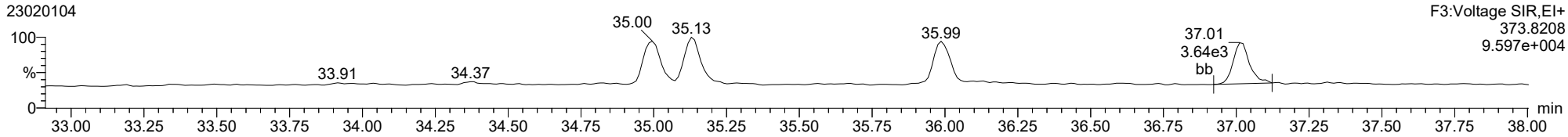

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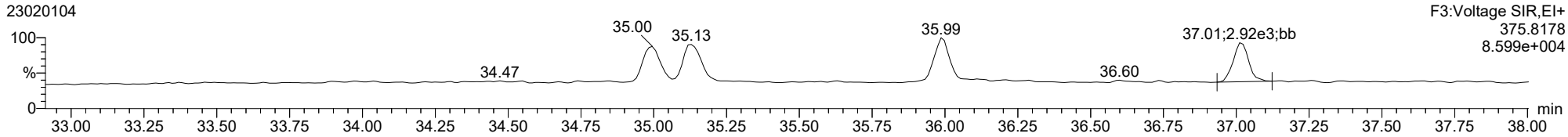

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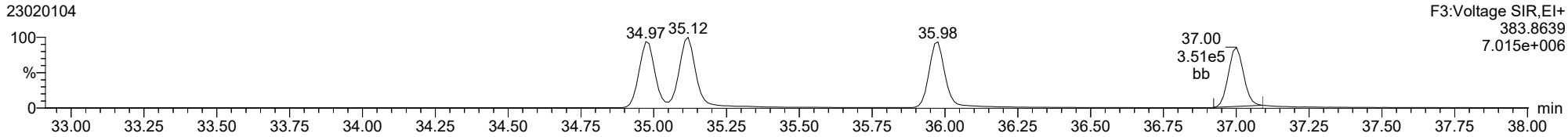

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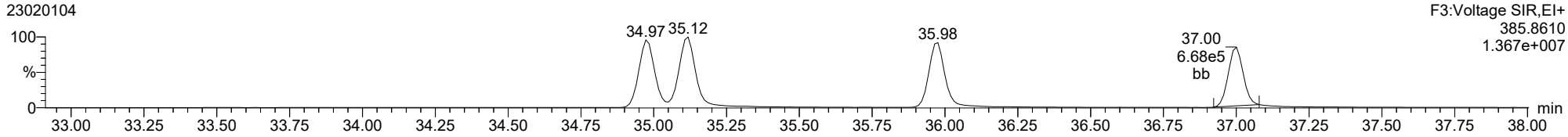

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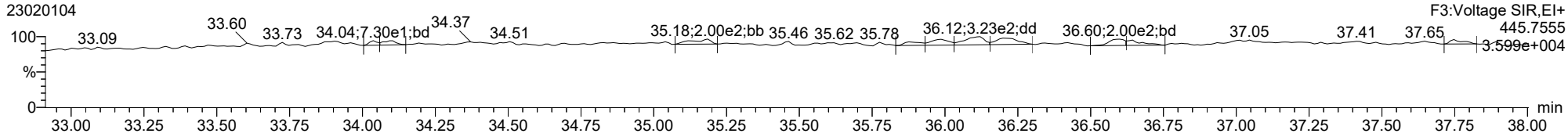

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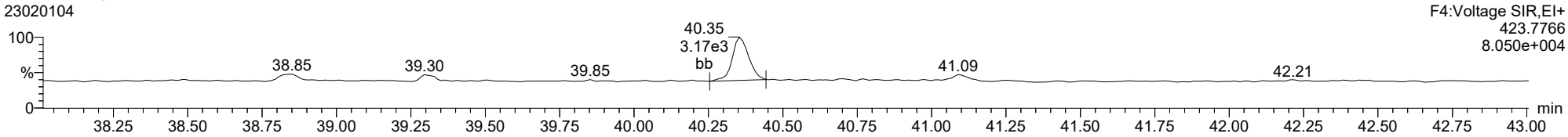

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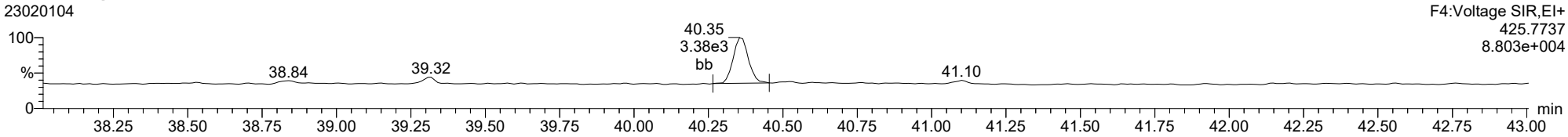

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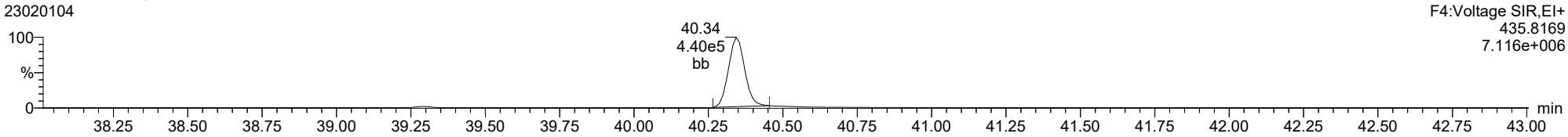

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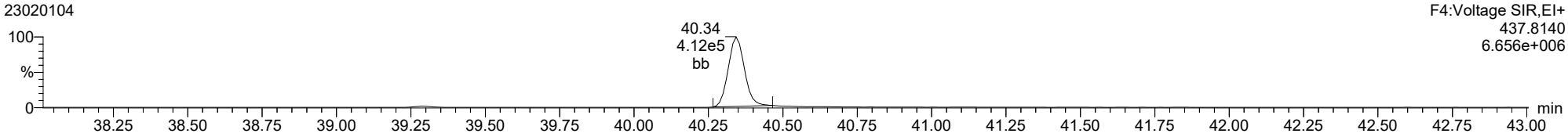

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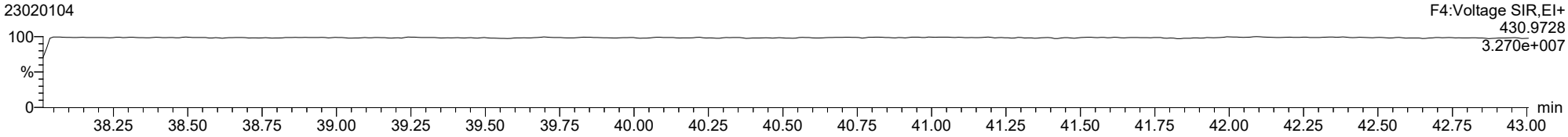

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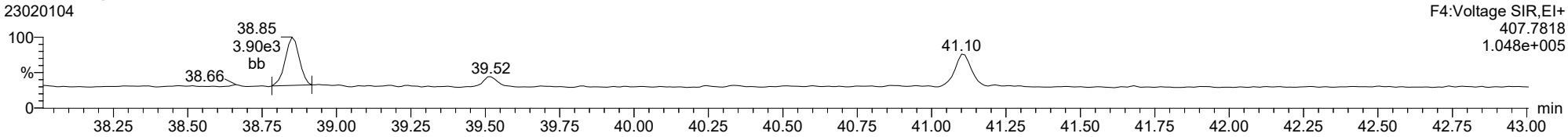

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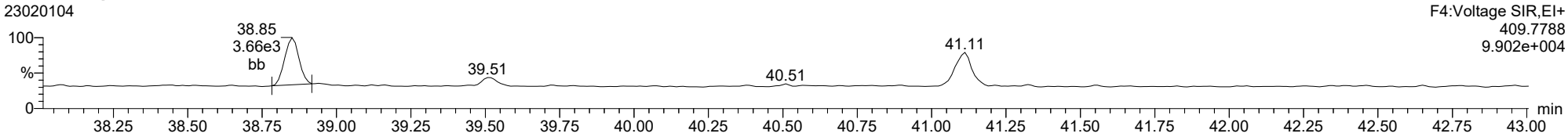

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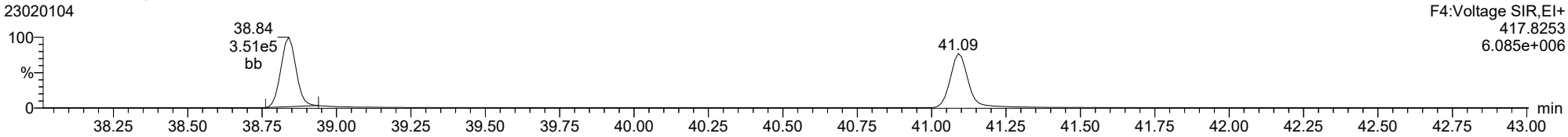

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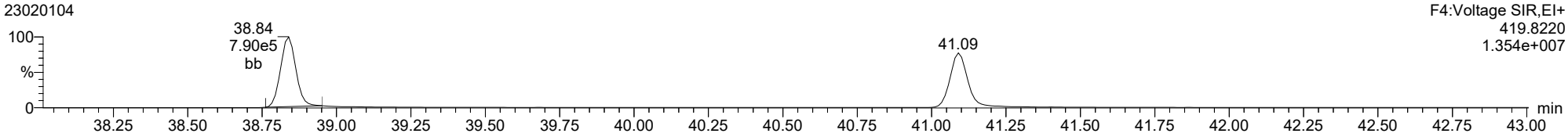
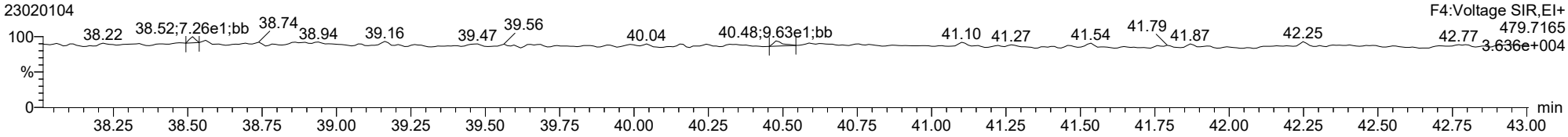


FUNCTION4 NCDPE



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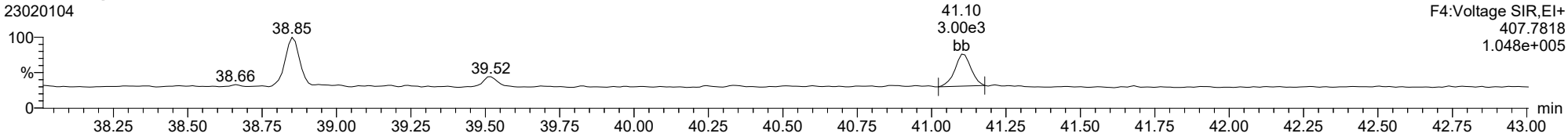

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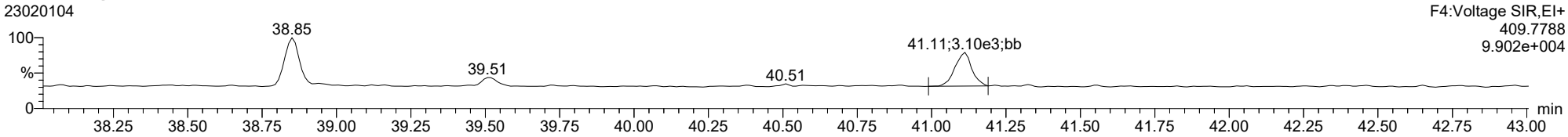

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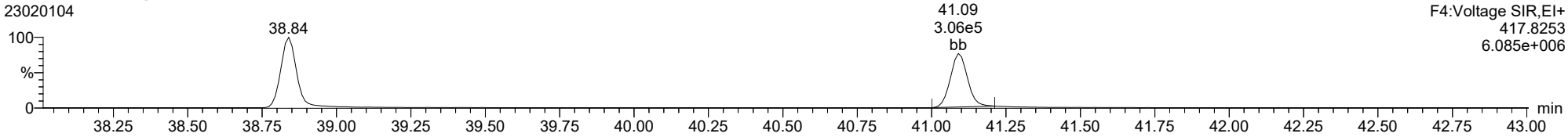

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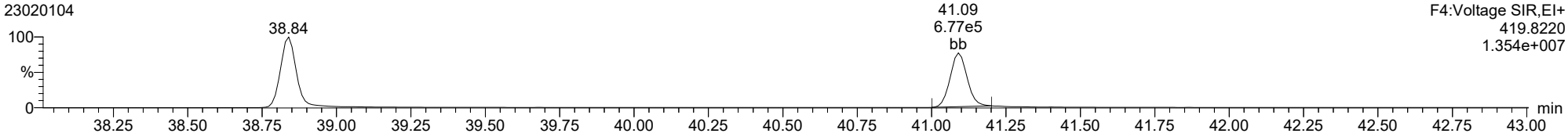
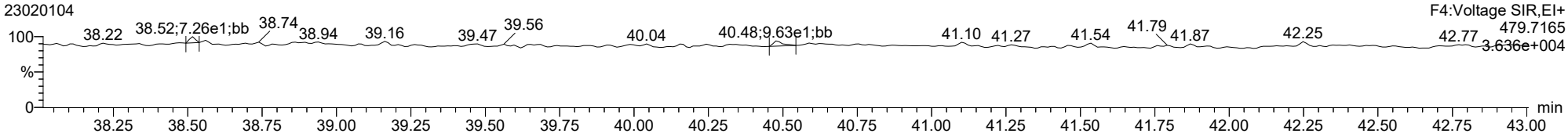


FUNCTION4 NCDPE



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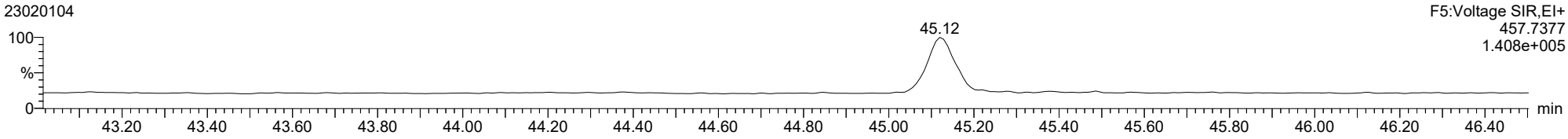

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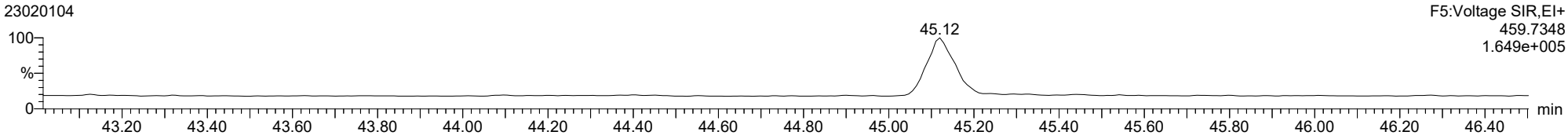

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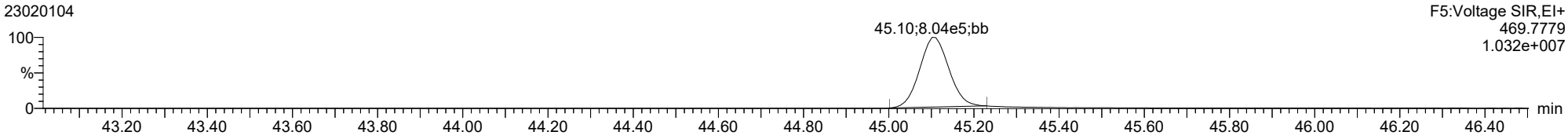

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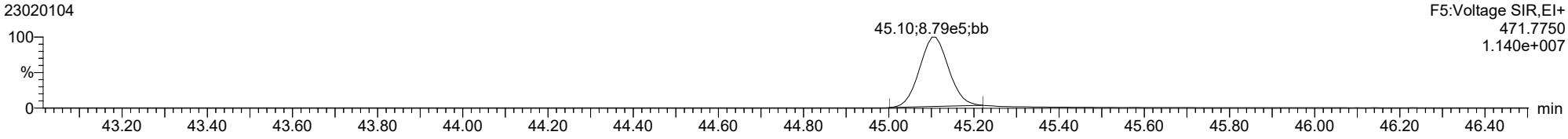
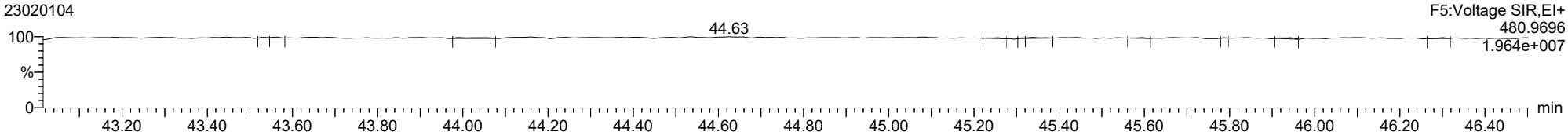


FUNCTION5 PFK



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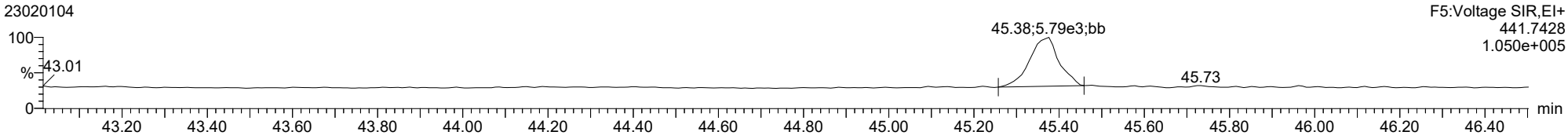

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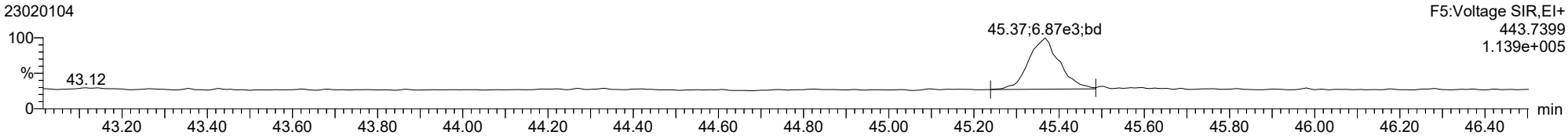
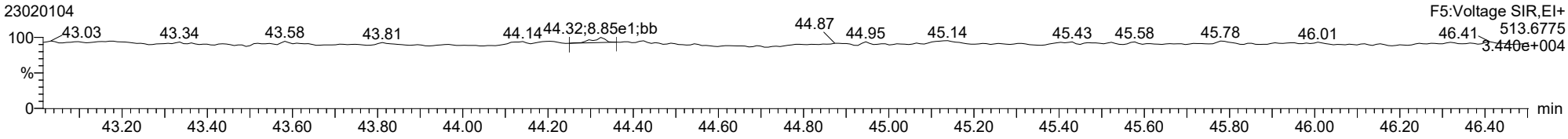


FUNCTION5 DCDPE



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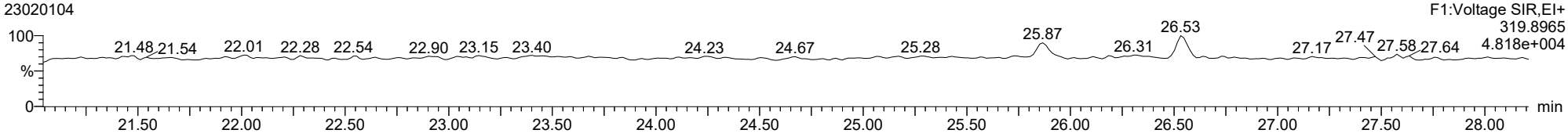
Total-tetradioxins



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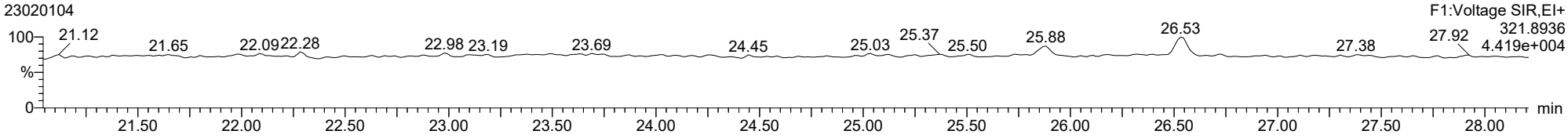

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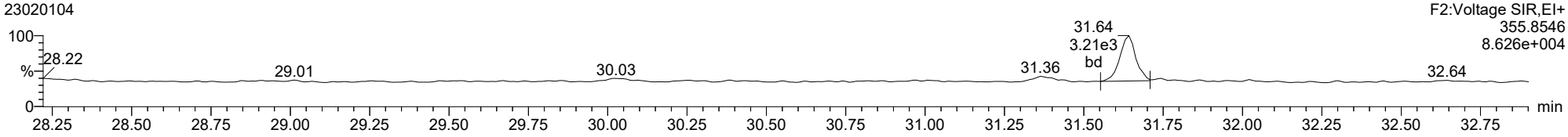

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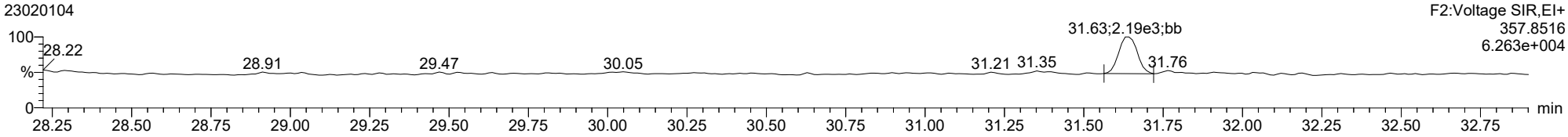

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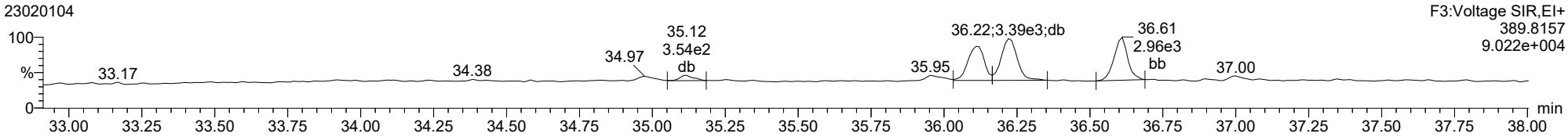

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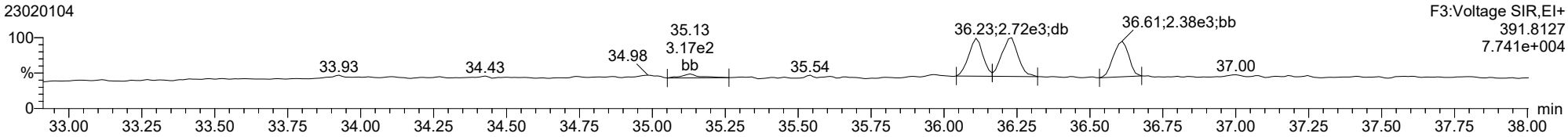

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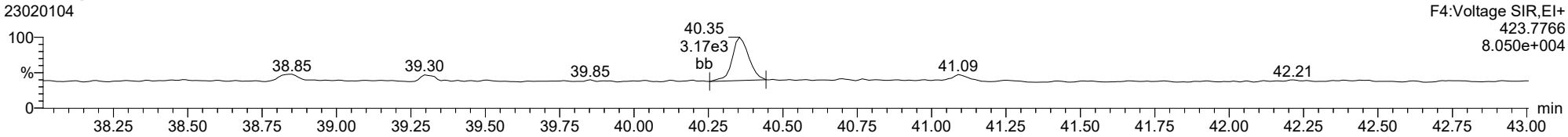

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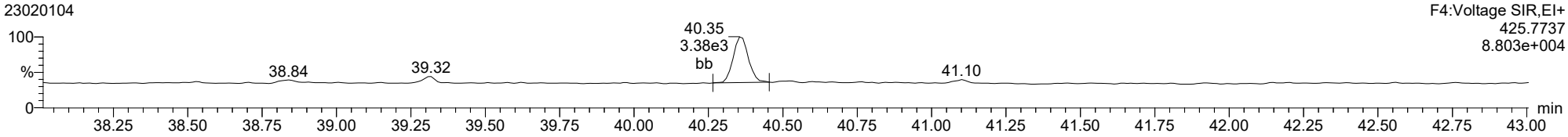

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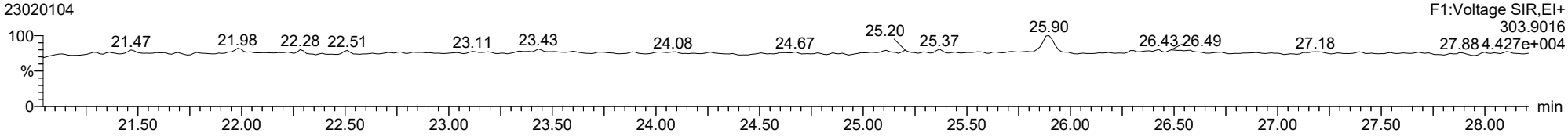
Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



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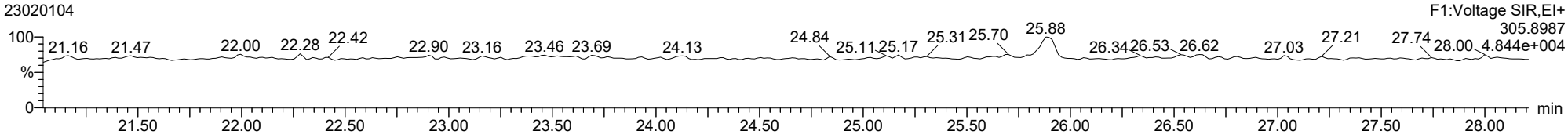

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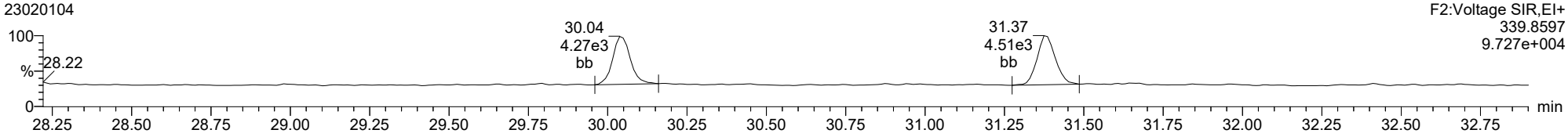

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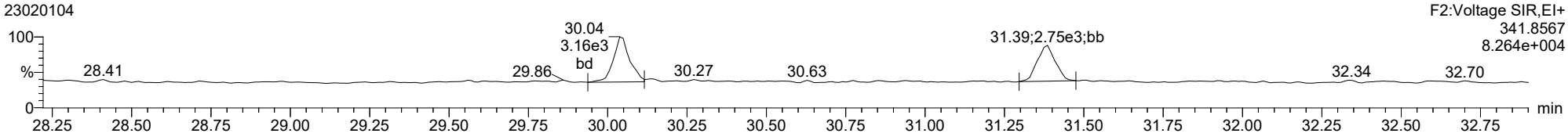

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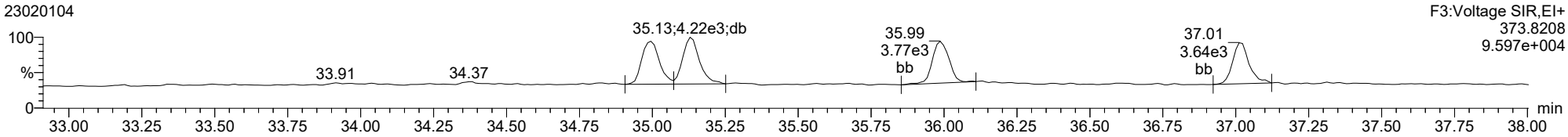
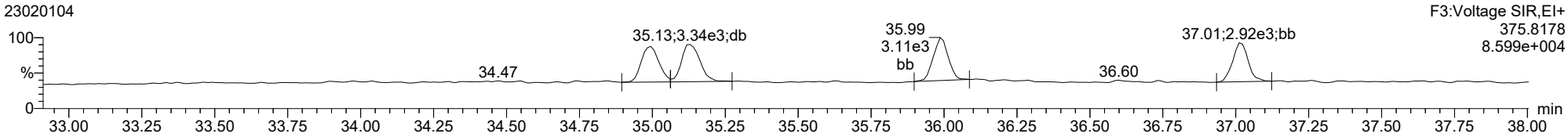
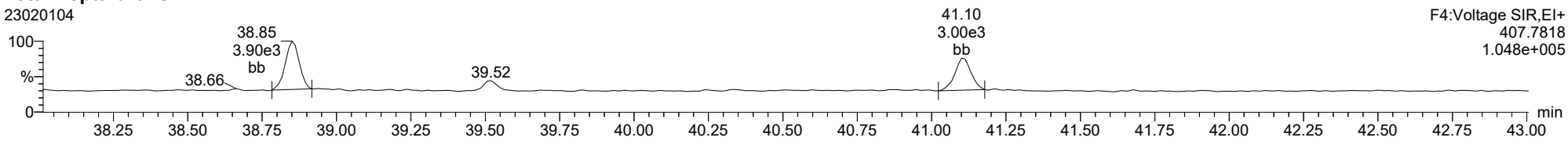
Total-hexafurans



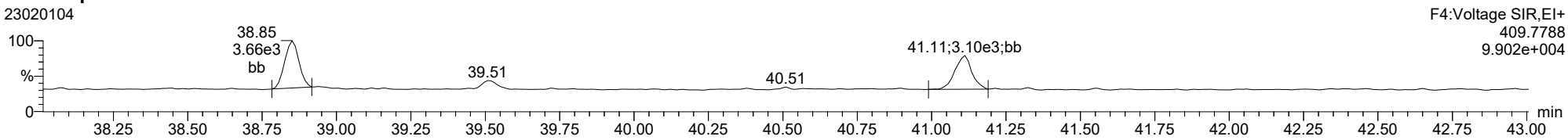
Total-hexafurans



Total-heptafurans



Total-heptafurans



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Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: 03 Feb 2023 10:33:40

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.897	1.001	3.165e3	3.812e3	0.876	0.830	0.770	851	1202	5.14e4	5.60e4	60.4	46.6	NO	db	bb	0.501
12378-PeCDF	30.048	1.000	1.657e4	1.122e4	0.845	1.477	1.550	1016	1248	2.51e5	1.73e5	247.1	138.5	NO	bb	bb	2.455
23478-PeCDF	31.385	1.000	1.669e4	1.174e4	0.911	1.422	1.550	1016	1248	2.63e5	1.81e5	259.2	145.3	NO	bb	bd	2.401
123478-HxCDF	35.006	1.001	1.544e4	1.249e4	1.182	1.236	1.240	890	1056	2.44e5	1.98e5	274.0	187.0	NO	bd	bd	2.494
234678-HxCDF	35.998	1.001	1.543e4	1.155e4	1.229	1.336	1.240	890	1056	2.60e5	1.91e5	292.0	180.6	NO	bd	bb	2.421
123678-HxCDF	35.140	1.001	1.636e4	1.318e4	1.248	1.241	1.240	890	1056	2.60e5	2.03e5	291.7	192.2	NO	dd	db	2.443
123789-HxCDF	37.023	1.000	1.293e4	1.008e4	1.187	1.282	1.240	890	1056	2.13e5	1.63e5	239.4	154.3	NO	bd	bb	2.372
1234678-HpCDF	38.861	1.000	1.439e4	1.337e4	1.204	1.077	1.050	1098	1117	2.42e5	2.23e5	220.8	199.9	NO	bb	bd	2.577
1234789-HpCDF	41.112	1.000	1.117e4	1.059e4	1.165	1.055	1.050	1098	1117	1.62e5	1.56e5	147.3	139.5	NO	bb	bb	2.411
OCDF	45.367	1.006	1.860e4	2.066e4	1.186	0.900	0.890	1237	861	2.12e5	2.52e5	171.2	292.2	NO	bb	bb	5.087
2378-TCDD	26.547	1.001	2.836e3	3.619e3	1.236	0.784	0.770	1261	742	4.26e4	5.78e4	33.8	77.9	NO	bb	bb	0.538
12378-PeCDD	31.642	1.000	1.354e4	8.892e3	1.087	1.522	1.550	1167	972	2.08e5	1.36e5	178.2	140.0	NO	bd	bd	2.535
123478-HxCDD	36.120	1.001	1.109e4	9.100e3	0.987	1.219	1.240	1079	803	1.88e5	1.54e5	174.2	191.5	NO	bd	bd	2.425
123678-HxCDD	36.232	1.000	1.193e4	1.017e4	1.021	1.173	1.240	1079	803	2.08e5	1.71e5	192.4	213.0	NO	db	dd	2.523
123789-HxCDD	36.611	1.011	1.141e4	9.550e3	0.985	1.195	1.240	1079	803	1.90e5	1.59e5	175.6	197.5	NO	bb	bd	2.499
1234678-HpCDD	40.365	1.000	1.047e4	1.022e4	1.253	1.025	1.050	924	912	1.67e5	1.57e5	180.8	172.2	NO	bb	bb	2.439
OCDD	45.129	1.000	2.025e4	2.243e4	1.103	0.903	0.890	770	1015	2.54e5	2.74e5	329.8	270.4	NO	bb	bb	5.948
13C-2378-TCDF	25.882	1.007	6.992e5	8.909e5	1.768	0.785	0.770	1890	1690	1.07e7	1.37e7	5679.3	8103.6	NO	bb	bb	99.523
13C-12378-PeCDF	30.037	1.168	8.127e5	5.274e5	1.527	1.541	1.550	2822	3217	1.25e7	8.12e6	4447.1	2523.6	NO	bb	bb	97.112
13C-23478-PeCDF	31.374	1.220	7.914e5	5.082e5	1.466	1.557	1.550	2822	3217	1.22e7	7.90e6	4335.0	2456.5	NO	bb	bb	98.086
13C-123478-HxCDF	34.984	0.956	3.203e5	6.270e5	1.054	0.511	0.510	2242	2569	5.23e6	1.03e7	2333.1	3994.8	NO	bd	bd	102.287
13C-123678-HxCDF	35.118	0.960	3.331e5	6.354e5	1.080	0.524	0.510	2242	2569	5.30e6	1.04e7	2362.3	4050.9	NO	db	db	102.033
13C-234678-HxCDF	35.975	0.983	3.012e5	6.055e5	1.014	0.497	0.510	2242	2569	5.04e6	1.01e7	2247.8	3935.5	NO	bb	bb	101.688
13C-123789-HxCDF	37.012	1.011	2.780e5	5.398e5	0.928	0.515	0.510	2242	2569	4.60e6	8.89e6	2053.4	3459.1	NO	bb	bb	100.261
13C-1234678-HpCDF	38.850	1.061	2.750e5	6.195e5	1.036	0.444	0.440	2698	3387	4.63e6	1.03e7	1714.9	3048.9	NO	bb	bb	98.218
13C-1234789-HpCDF	41.100	1.123	2.400e5	5.347e5	0.905	0.449	0.440	2698	3387	3.64e6	7.83e6	1350.8	2311.2	NO	bb	bb	97.391
13C-1234-TCDD	25.715	0.000	4.030e5	5.006e5	1.000	0.805	0.770	2070	1290	6.17e6	7.63e6	2981.3	5910.4	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.031	4.334e5	5.370e5	1.103	0.807	0.770	2070	1290	6.64e6	8.43e6	3208.6	6536.2	NO	bb	bb	97.361
13C-12378-PeCDD	31.630	1.230	5.002e5	3.141e5	0.914	1.593	1.550	1571	1429	7.70e6	4.72e6	4905.0	3303.0	NO	bb	bd	98.574
13C-123478-HxCDD	36.098	0.986	4.774e5	3.663e5	0.933	1.303	1.240	2711	2219	7.76e6	6.04e6	2862.5	2723.9	NO	bd	bd	102.880
13C-123678-HxCDD	36.221	0.990	4.780e5	3.801e5	0.965	1.258	1.240	2711	2219	7.94e6	6.30e6	2926.7	2837.8	NO	db	db	101.203
13C-1234678-HpCDD	40.354	1.103	3.494e5	3.280e5	0.782	1.065	1.050	1617	1571	5.50e6	5.16e6	3401.2	3284.5	NO	bb	bb	98.546
13C-OCDD	45.111	1.233	6.222e5	6.790e5	0.788	0.916	0.890	1719	2376	7.89e6	8.58e6	4588.0	3611.7	NO	bb	bb	187.800
13C-123789-HxCDD	36.599	0.000	4.932e5	3.858e5	1.000	1.278	1.240	2711	2219	8.15e6	6.30e6	3006.5	2840.6	NO	bb	bb	100.000
37CL-2378-TCDD	26.547	1.032	5.621e3		1.233			1648		8.22e4		49.9			bb		0.504

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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	851	1202								
1289-TCDF					0.858		0.770	851	1202								
13468-PECDF					1.013		1.550	923	968								
12389-PECDF					0.844		1.550	1016	1248								
123468-HXCDF					1.197		1.240	890	1056								
1368-TCDD					1.084		0.770	1261	742								
1289-TCDD					0.975		0.770	1261	742								
12479-PECDD					1.837		1.550	1167	972								
12389-PECDD					1.252		1.550	1167	972								
124679-HXCDD					1.033		1.240	1079	803								
1234679-HPCDD					1.286		1.050	924	912								
Total-tetrafurans			3.165e3		0.933			851		5.14e4							0.501
Total-penta1			0.000e0					923		0.00e0							
Total-pentafurans			3.326e4		0.866			1016		5.14e5							4.856
Total-hexafurans			6.015e4		1.208			890		9.76e5							9.731
Total-heptafurans			2.643e4		1.185			1098		4.18e5							5.166
Total-Furans			1.416e5		1.067			851		2.17e6							25.340
Total-tetradioxins			2.907e3		1.099			1261		4.45e4							0.554
Total-pentadioxins			1.372e4		1.392			1167		2.12e5							2.561
Total-hexadioxins			3.443e4		1.007			1079		5.85e5							7.448
Total-heptadioxins			1.047e4		1.269			924		1.67e5							2.439
Total-Dioxins			8.178e4		1.165			1261		1.26e6							18.950
Total-TEQ			2.234e5					1261		3.43e6							44.290
FUNCTION1 PFK			2.400e7					626106		1.90e8							
FUNCTION2 PFK			0.000e0					236572		0.00e0							
FUNCTION3 PFK			4.302e5					501624		1.34e7							0.000
FUNCTION4 PFK			4.347e5					324457		1.19e7							
FUNCTION5 PFK			8.590e4					209539		3.93e6							
FUNCTION1 HXCD...			1.828e3					784		2.65e4							0.000
FUNCTION1 HPCD...			8.634e2					852		1.29e4							0.000
FUNCTION2 HPCD...			2.922e2					978		5.26e3							0.000
FUNCTION3 OCDPE			8.271e2					835		1.40e4							0.000
FUNCTION4 NCDPE			1.900e2					822		4.03e3							0.000
FUNCTION5 DCDPE			0.000e0					732		0.00e0							

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	3.165e3	3.812e3	0.876	0.83	0.77	60.4	YES	NO	db	bb	0.501

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.39	1.669e4	1.174e4	0.911	1.42	1.55	259.2	YES	NO	bb	bd	2.401
2	12378-PeCDF	30.05	1.657e4	1.122e4	0.845	1.48	1.55	247.1	YES	NO	bb	bb	2.455

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.02	1.293e4	1.008e4	1.187	1.28	1.24	239.4	YES	NO	bd	bb	2.372
2	234678-HxCDF	36.00	1.543e4	1.155e4	1.229	1.34	1.24	292.0	YES	NO	bd	bb	2.421
3	123678-HxCDF	35.14	1.636e4	1.318e4	1.248	1.24	1.24	291.7	YES	NO	dd	db	2.443
4	123478-HxCDF	35.01	1.544e4	1.249e4	1.182	1.24	1.24	274.0	YES	NO	bd	bd	2.494

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.11	1.117e4	1.059e4	1.165	1.05	1.05	147.3	YES	NO	bb	bb	2.411
2	Total-heptafurans	39.52	8.567e2	9.013e2	1.185	0.95	1.05	12.7	YES	NO	bb	bb	0.178
3	1234678-HpCDF	38.86	1.439e4	1.337e4	1.204	1.08	1.05	220.8	YES	NO	bb	bd	2.577

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	3.165e3	3.812e3	0.876	0.83	0.77	60.4	YES	NO	db	bb	0.501
2	23478-PeCDF	31.39	1.669e4	1.174e4	0.911	1.42	1.55	259.2	YES	NO	bb	bd	2.401
3	12378-PeCDF	30.05	1.657e4	1.122e4	0.845	1.48	1.55	247.1	YES	NO	bb	bb	2.455
4	123789-HxCDF	37.02	1.293e4	1.008e4	1.187	1.28	1.24	239.4	YES	NO	bd	bb	2.372
5	234678-HxCDF	36.00	1.543e4	1.155e4	1.229	1.34	1.24	292.0	YES	NO	bd	bb	2.421
6	123678-HxCDF	35.14	1.636e4	1.318e4	1.248	1.24	1.24	291.7	YES	NO	dd	db	2.443
7	123478-HxCDF	35.01	1.544e4	1.249e4	1.182	1.24	1.24	274.0	YES	NO	bd	bd	2.494
8	1234789-HpCDF	41.11	1.117e4	1.059e4	1.165	1.05	1.05	147.3	YES	NO	bb	bb	2.411
9	Total-heptafurans	39.52	8.567e2	9.013e2	1.185	0.95	1.05	12.7	YES	NO	bb	bb	0.178
10	1234678-HpCDF	38.86	1.439e4	1.337e4	1.204	1.08	1.05	220.8	YES	NO	bb	bd	2.577
11	OCDF	45.37	1.860e4	2.066e4	1.186	0.90	0.89	171.2	YES	NO	bb	bb	5.087

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	24.26	7.113e1	9.739e1	1.099	0.73	0.77	1.5	NO	NO	bb	bb	0.016
2	2378-TCDD	26.55	2.836e3	3.619e3	1.236	0.78	0.77	33.8	YES	NO	bb	bb	0.538

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	31.80	1.875e2	1.127e2	1.392	1.66	1.55	3.4	YES	NO	db	db	0.026
2	12378-PeCDD	31.64	1.354e4	8.892e3	1.087	1.52	1.55	178.2	YES	NO	bd	bd	2.535

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.61	1.141e4	9.550e3	0.985	1.19	1.24	175.6	YES	NO	bb	bd	2.499
2	123678-HxCDD	36.23	1.193e4	1.017e4	1.021	1.17	1.24	192.4	YES	NO	db	dd	2.523
3	123478-HxCDD	36.12	1.109e4	9.100e3	0.987	1.22	1.24	174.2	YES	NO	bd	bd	2.425

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.37	1.047e4	1.022e4	1.253	1.02	1.05	180.8	YES	NO	bb	bb	2.439

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	24.26	7.113e1	9.739e1	1.099	0.73	0.77	1.5	NO	NO	bb	bb	0.016
2	2378-TCDD	26.55	2.836e3	3.619e3	1.236	0.78	0.77	33.8	YES	NO	bb	bb	0.538
3	Total-pentadioxins	31.80	1.875e2	1.127e2	1.392	1.66	1.55	3.4	YES	NO	db	db	0.026
4	12378-PeCDD	31.64	1.354e4	8.892e3	1.087	1.52	1.55	178.2	YES	NO	bd	bd	2.535
5	123789-HxCDD	36.61	1.141e4	9.550e3	0.985	1.19	1.24	175.6	YES	NO	bb	bd	2.499
6	123678-HxCDD	36.23	1.193e4	1.017e4	1.021	1.17	1.24	192.4	YES	NO	db	dd	2.523
7	123478-HxCDD	36.12	1.109e4	9.100e3	0.987	1.22	1.24	174.2	YES	NO	bd	bd	2.425
8	1234678-HpCDD	40.37	1.047e4	1.022e4	1.253	1.02	1.05	180.8	YES	NO	bb	bb	2.439
9	OCDD	45.13	2.025e4	2.243e4	1.103	0.90	0.89	329.8	YES	NO	bb	bb	5.948

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	3.165e3	3.812e3	0.876	0.83	0.77	60.4	YES	NO	db	bb	0.501
2	23478-PeCDF	31.39	1.669e4	1.174e4	0.911	1.42	1.55	259.2	YES	NO	bb	bd	2.401
3	12378-PeCDF	30.05	1.657e4	1.122e4	0.845	1.48	1.55	247.1	YES	NO	bb	bb	2.455
4	123789-HxCDF	37.02	1.293e4	1.008e4	1.187	1.28	1.24	239.4	YES	NO	bd	bb	2.372
5	234678-HxCDF	36.00	1.543e4	1.155e4	1.229	1.34	1.24	292.0	YES	NO	bd	bb	2.421
6	123678-HxCDF	35.14	1.636e4	1.318e4	1.248	1.24	1.24	291.7	YES	NO	dd	db	2.443
7	123478-HxCDF	35.01	1.544e4	1.249e4	1.182	1.24	1.24	274.0	YES	NO	bd	bd	2.494
8	1234789-HpCDF	41.11	1.117e4	1.059e4	1.165	1.05	1.05	147.3	YES	NO	bb	bb	2.411
9	Total-heptafurans	39.52	8.567e2	9.013e2	1.185	0.95	1.05	12.7	YES	NO	bb	bb	0.178
10	1234678-HpCDF	38.86	1.439e4	1.337e4	1.204	1.08	1.05	220.8	YES	NO	bb	bd	2.577
11	OCDF	45.37	1.860e4	2.066e4	1.186	0.90	0.89	171.2	YES	NO	bb	bb	5.087
12	Total-tetradioxins	24.26	7.113e1	9.739e1	1.099	0.73	0.77	1.5	NO	NO	bb	bb	0.016
13	2378-TCDD	26.55	2.836e3	3.619e3	1.236	0.78	0.77	33.8	YES	NO	bb	bb	0.538
14	Total-pentadioxins	31.80	1.875e2	1.127e2	1.392	1.66	1.55	3.4	YES	NO	db	db	0.026
15	12378-PeCDD	31.64	1.354e4	8.892e3	1.087	1.52	1.55	178.2	YES	NO	bd	bd	2.535
16	123789-HxCDD	36.61	1.141e4	9.550e3	0.985	1.19	1.24	175.6	YES	NO	bb	bd	2.499
17	123678-HxCDD	36.23	1.193e4	1.017e4	1.021	1.17	1.24	192.4	YES	NO	db	dd	2.523
18	123478-HxCDD	36.12	1.109e4	9.100e3	0.987	1.22	1.24	174.2	YES	NO	bd	bd	2.425
19	1234678-HpCDD	40.37	1.047e4	1.022e4	1.253	1.02	1.05	180.8	YES	NO	bb	bb	2.439
20	OCDD	45.13	2.025e4	2.243e4	1.103	0.90	0.89	329.8	YES	NO	bb	bb	5.948

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.24	1.348e6					15.3	YES		dd		
2	FUNCTION1 PFK	22.18	4.644e5					16.9	YES		dd		
3	FUNCTION1 PFK	22.16	1.313e6					16.6	YES		dd		
4	FUNCTION1 PFK	21.98	1.487e6					20.5	YES		dd		
5	FUNCTION1 PFK	21.88	1.450e6					22.1	YES		dd		
6	FUNCTION1 PFK	21.72	1.801e6					24.8	YES		dd		
7	FUNCTION1 PFK	21.60	1.955e6					26.8	YES		dd		
8	FUNCTION1 PFK	21.39	6.532e6					30.5	YES		dd		
9	FUNCTION1 PFK	21.12	3.552e6					35.4	YES		bd		
10	FUNCTION1 PFK	24.35	3.975e3					0.4	NO		bb		
11	FUNCTION1 PFK	24.08	2.445e4					0.9	NO		bb		
12	FUNCTION1 PFK	23.89	1.855e4					1.0	NO		bb		
13	FUNCTION1 PFK	23.81	2.526e4					1.3	NO		bb		
14	FUNCTION1 PFK	23.73	2.606e4					1.2	NO		db		
15	FUNCTION1 PFK	23.63	3.953e4					0.9	NO		bd		
16	FUNCTION1 PFK	23.40	1.725e4					0.8	NO		db		
17	FUNCTION1 PFK	23.36	2.281e4					0.8	NO		bd		
18	FUNCTION1 PFK	23.28	4.142e4					1.3	NO		bb		
19	FUNCTION1 PFK	23.08	3.989e4					1.2	NO		db		
20	FUNCTION1 PFK	23.01	5.719e4					2.6	NO		dd		
21	FUNCTION1 PFK	22.78	6.498e5					6.6	YES		dd		
22	FUNCTION1 PFK	22.62	7.070e5					9.1	YES		dd		
23	FUNCTION1 PFK	22.51	7.554e5					10.8	YES		dd		
24	FUNCTION1 PFK	22.43	4.428e5					12.6	YES		dd		
25	FUNCTION1 PFK	22.39	4.834e5					13.1	YES		dd		
26	FUNCTION1 PFK	26.44	1.834e4					0.9	NO		bb		
27	FUNCTION1 PFK	26.31	1.630e4					0.8	NO		db		
28	FUNCTION1 PFK	26.24	2.476e4					1.0	NO		bd		
29	FUNCTION1 PFK	26.17	2.817e4					1.0	NO		bb		
30	FUNCTION1 PFK	26.03	3.473e4					1.3	NO		db		
31	FUNCTION1 PFK	25.97	2.971e4					1.1	NO		dd		
32	FUNCTION1 PFK	25.90	2.965e4					1.4	NO		bd		
33	FUNCTION1 PFK	25.84	6.319e3					0.7	NO		bb		
34	FUNCTION1 PFK	25.76	2.805e4					1.0	NO		db		
35	FUNCTION1 PFK	25.69	1.550e4					0.7	NO		bd		
36	FUNCTION1 PFK	25.43	1.865e4					0.8	NO		bb		
37	FUNCTION1 PFK	25.29	2.496e4					1.2	NO		bb		

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	25.16	1.218e4					0.7	NO		bb		
39	FUNCTION1 PFK	24.90	4.251e4					1.2	NO		bb		
40	FUNCTION1 PFK	24.82	9.911e3					0.6	NO		bb		
41	FUNCTION1 PFK	24.70	1.084e4					0.7	NO		bb		
42	FUNCTION1 PFK	28.13	1.191e4					0.5	NO		bb		
43	FUNCTION1 PFK	28.06	1.157e4					0.7	NO		bb		
44	FUNCTION1 PFK	27.94	2.880e4					1.2	NO		bb		
45	FUNCTION1 PFK	27.73	2.725e4					1.2	NO		db		
46	FUNCTION1 PFK	27.65	2.104e4					0.9	NO		bd		
47	FUNCTION1 PFK	27.53	9.466e3					0.5	NO		bb		
48	FUNCTION1 PFK	27.45	2.859e4					0.9	NO		db		
49	FUNCTION1 PFK	27.32	3.854e4					1.1	NO		bd		
50	FUNCTION1 PFK	27.18	2.011e4					0.9	NO		db		
51	FUNCTION1 PFK	27.11	5.101e4					1.6	NO		dd		
52	FUNCTION1 PFK	27.05	7.101e4					1.7	NO		dd		
53	FUNCTION1 PFK	26.97	2.738e4					1.1	NO		bd		
54	FUNCTION1 PFK	26.85	5.698e3					0.5	NO		bb		
55	FUNCTION1 PFK	26.79	9.173e3					0.6	NO		bb		
56	FUNCTION1 PFK	26.65	1.932e4					1.0	NO		bb		
57	FUNCTION1 PFK	26.50	1.249e4					0.8	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.28	1.720e4					1.2	NO		bb		0.000
2	FUNCTION3 PFK	35.17	3.494e4					1.4	NO		bb		0.000
3	FUNCTION3 PFK	35.02	1.498e4					0.7	NO		bb		0.000
4	FUNCTION3 PFK	34.97	2.068e4					1.6	NO		db		0.000
5	FUNCTION3 PFK	34.92	3.898e4					1.7	NO		bd		0.000
6	FUNCTION3 PFK	34.84	3.344e4					2.0	NO		db		0.000
7	FUNCTION3 PFK	34.79	4.044e4					2.0	NO		bd		0.000
8	FUNCTION3 PFK	34.56	1.848e4					1.0	NO		bb		0.000
9	FUNCTION3 PFK	34.43	3.131e3					0.6	NO		bb		0.000
10	FUNCTION3 PFK	33.97	1.059e4					1.1	NO		bb		0.000
11	FUNCTION3 PFK	33.91	7.198e3					0.6	NO		bb		0.000
12	FUNCTION3 PFK	33.77	2.029e4					1.1	NO		bb		0.000
13	FUNCTION3 PFK	33.51	2.578e4					1.1	NO		bb		0.000
14	FUNCTION3 PFK	33.23	2.194e3					0.4	NO		bb		0.000
15	FUNCTION3 PFK	37.66	2.055e4					1.5	NO		db		0.000
16	FUNCTION3 PFK	37.61	1.552e4					1.3	NO		bd		0.000
17	FUNCTION3 PFK	37.55	2.721e4					1.4	NO		bb		0.000
18	FUNCTION3 PFK	37.30	3.274e4					1.5	NO		bb		0.000
19	FUNCTION3 PFK	36.81	9.296e3					0.9	NO		bb		0.000
20	FUNCTION3 PFK	36.47	5.665e3					0.6	NO		bb		0.000
21	FUNCTION3 PFK	36.37	1.213e4					0.9	NO		bb		0.000
22	FUNCTION3 PFK	35.99	5.368e3					0.6	NO		bb		0.000
23	FUNCTION3 PFK	35.72	2.308e3					0.4	NO		bb		0.000
24	FUNCTION3 PFK	35.61	2.395e3					0.4	NO		bb		0.000
25	FUNCTION3 PFK	35.56	8.733e3					0.7	NO		bb		0.000

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Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.48	1.749e3					0.5	NO		bb		
2	FUNCTION4 PFK	38.35	9.022e3					0.9	NO		bb		
3	FUNCTION4 PFK	38.24	3.875e3					0.6	NO		bb		
4	FUNCTION4 PFK	38.13	2.737e4					1.8	NO		bb		
5	FUNCTION4 PFK	41.33	1.294e4					1.5	NO		bd		
6	FUNCTION4 PFK	41.23	4.010e4					1.6	NO		db		
7	FUNCTION4 PFK	41.09	3.801e4					1.9	NO		bd		
8	FUNCTION4 PFK	40.99	2.136e4					1.8	NO		bb		
9	FUNCTION4 PFK	40.59	8.289e3					0.7	NO		bb		
10	FUNCTION4 PFK	40.23	3.985e3					0.6	NO		bb		
11	FUNCTION4 PFK	39.88	1.184e3					0.3	NO		bb		
12	FUNCTION4 PFK	39.83	1.945e3					0.5	NO		bb		
13	FUNCTION4 PFK	39.52	8.163e3					1.0	NO		bb		
14	FUNCTION4 PFK	39.21	1.232e3					0.3	NO		bb		
15	FUNCTION4 PFK	39.07	1.853e4					1.3	NO		db		
16	FUNCTION4 PFK	38.94	5.337e4					2.0	NO		dd		
17	FUNCTION4 PFK	38.87	1.627e4					1.6	NO		dd		
18	FUNCTION4 PFK	38.84	1.863e4					1.8	NO		bd		
19	FUNCTION4 PFK	38.69	3.030e4					2.1	NO		bb		
20	FUNCTION4 PFK	38.54	2.688e3					0.5	NO		bb		
21	FUNCTION4 PFK	42.75	7.635e3					1.1	NO		bb		
22	FUNCTION4 PFK	42.65	3.824e3					0.5	NO		db		
23	FUNCTION4 PFK	42.62	3.380e3					0.6	NO		bd		
24	FUNCTION4 PFK	42.55	8.483e3					1.1	NO		bb		
25	FUNCTION4 PFK	42.45	5.962e3					0.8	NO		db		
26	FUNCTION4 PFK	42.40	5.418e3					0.7	NO		bd		
27	FUNCTION4 PFK	42.27	7.694e3					0.9	NO		bb		
28	FUNCTION4 PFK	42.10	9.463e3					1.2	NO		db		
29	FUNCTION4 PFK	42.05	1.039e4					1.1	NO		bd		
30	FUNCTION4 PFK	41.81	3.060e3					0.9	NO		bb		
31	FUNCTION4 PFK	41.77	4.237e3					0.7	NO		bb		
32	FUNCTION4 PFK	41.71	3.440e3					0.6	NO		bb		
33	FUNCTION4 PFK	41.67	1.592e3					0.4	NO		bb		
34	FUNCTION4 PFK	41.57	2.688e4					1.3	NO		bb		
35	FUNCTION4 PFK	41.37	1.425e4					1.5	NO		db		

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.31	4.706e3					1.2	NO		bb		
2	FUNCTION5 PFK	46.25	4.425e3					1.1	NO		bb		
3	FUNCTION5 PFK	46.16	2.646e3					0.9	NO		bb		
4	FUNCTION5 PFK	46.03	5.117e3					1.5	NO		db		
5	FUNCTION5 PFK	46.01	6.487e3					1.4	NO		bd		
6	FUNCTION5 PFK	45.67	8.229e3					1.3	NO		bb		
7	FUNCTION5 PFK	45.46	1.002e3					0.5	NO		bb		
8	FUNCTION5 PFK	45.18	2.741e3					0.8	NO		db		
9	FUNCTION5 PFK	45.15	2.119e3					0.7	NO		bd		
10	FUNCTION5 PFK	44.83	3.811e3					1.2	NO		bb		
11	FUNCTION5 PFK	44.20	1.148e4					1.5	NO		bb		
12	FUNCTION5 PFK	44.06	5.518e3					1.3	NO		bb		
13	FUNCTION5 PFK	44.02	1.106e3					0.6	NO		bb		
14	FUNCTION5 PFK	43.71	1.195e4					1.8	NO		bb		
15	FUNCTION5 PFK	43.46	1.476e3					0.8	NO		bb		
16	FUNCTION5 PFK	43.39	1.169e4					1.4	NO		bb		
17	FUNCTION5 PFK	46.43	1.400e3					0.7	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.97	1.637e2					3.3	YES		bb		0.000
2	FUNCTION1 HXCD...	27.23	1.144e2					2.0	NO		bb		0.000
3	FUNCTION1 HXCD...	26.82	1.144e2					2.2	NO		bb		0.000
4	FUNCTION1 HXCD...	25.91	1.100e2					2.2	NO		bb		0.000
5	FUNCTION1 HXCD...	25.23	1.805e2					5.5	YES		bb		0.000
6	FUNCTION1 HXCD...	24.26	1.341e2					2.3	NO		bb		0.000
7	FUNCTION1 HXCD...	24.08	1.268e2					1.9	NO		bb		0.000
8	FUNCTION1 HXCD...	23.43	1.602e2					2.4	NO		bb		0.000
9	FUNCTION1 HXCD...	22.78	1.018e2					1.8	NO		bb		0.000
10	FUNCTION1 HXCD...	22.39	1.626e2					2.8	NO		bb		0.000
11	FUNCTION1 HXCD...	22.06	1.129e2					2.5	NO		bb		0.000
12	FUNCTION1 HXCD...	21.53	1.052e2					1.2	NO		db		0.000
13	FUNCTION1 HXCD...	21.36	9.992e1					1.3	NO		bd		0.000
14	FUNCTION1 HXCD...	21.16	1.410e2					2.5	NO		bb		0.000

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ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	28.16	7.208e1					2.1	NO		bb		0.000
2	FUNCTION1 HPCD...	27.42	1.038e2					2.0	NO		db		0.000
3	FUNCTION1 HPCD...	27.27	1.034e2					2.2	NO		bd		0.000
4	FUNCTION1 HPCD...	25.70	1.308e2					1.7	NO		bb		0.000
5	FUNCTION1 HPCD...	24.05	1.613e2					1.7	NO		bb		0.000
6	FUNCTION1 HPCD...	22.59	1.423e2					2.0	NO		bb		0.000
7	FUNCTION1 HPCD...	22.39	1.496e2					3.4	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.14	1.080e2					1.8	NO		db		0.000
2	FUNCTION2 HPCD...	30.05	1.026e2					1.8	NO		bd		0.000
3	FUNCTION2 HPCD...	28.74	8.165e1					1.9	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.11	9.641e1					2.4	NO		db		0.000
2	FUNCTION3 OCDPE	36.03	1.029e2					1.5	NO		bd		0.000
3	FUNCTION3 OCDPE	34.77	8.096e1					1.2	NO		bb		0.000
4	FUNCTION3 OCDPE	37.01	1.018e2					2.8	NO		bb		0.000
5	FUNCTION3 OCDPE	36.73	1.470e2					3.1	YES		bb		0.000
6	FUNCTION3 OCDPE	36.60	1.766e2					3.1	YES		bb		0.000
7	FUNCTION3 OCDPE	36.22	1.214e2					2.7	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.34	9.946e1					2.4	NO		bb		0.000
2	FUNCTION4 NCDPE	39.96	9.057e1					2.5	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dataset: T:\Autospec\Processed Data Batch\230201ICIH.qld
Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

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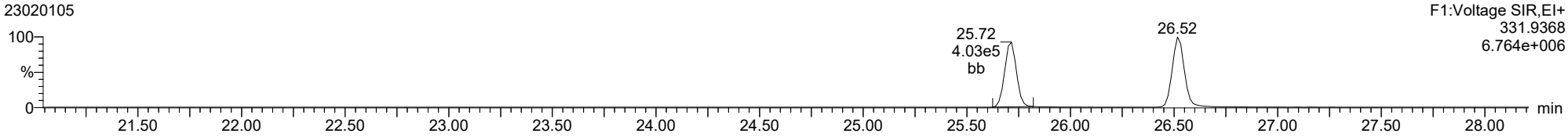

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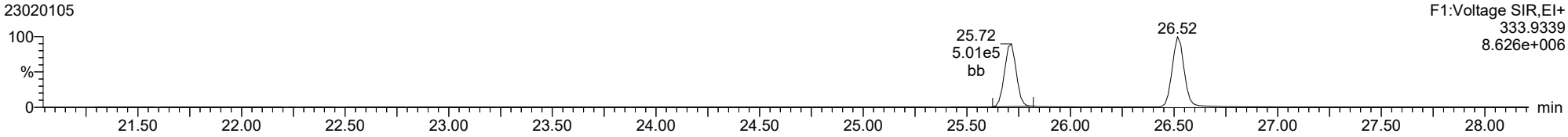

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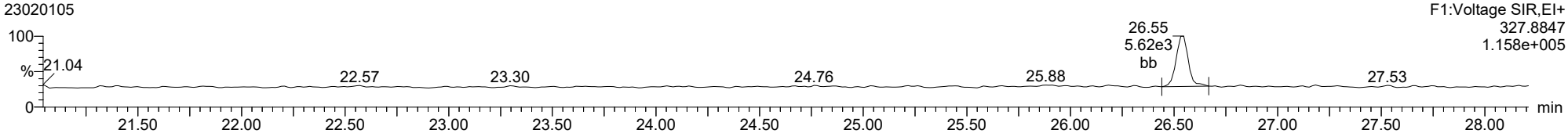

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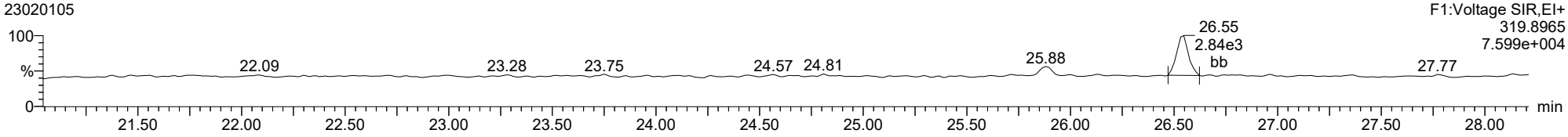

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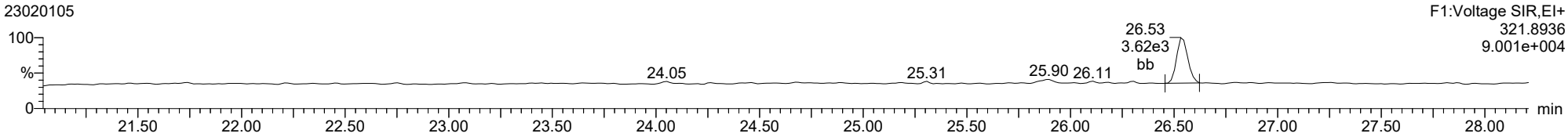

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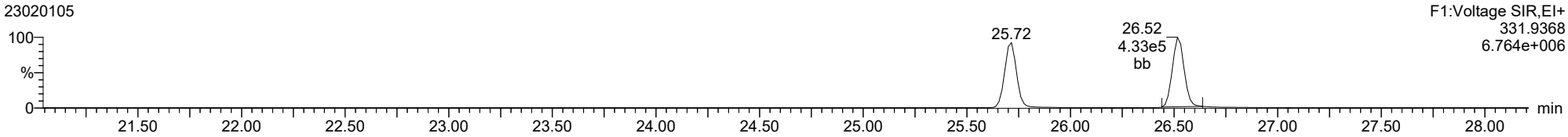

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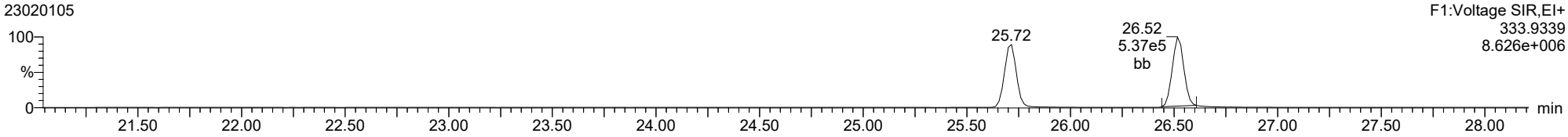

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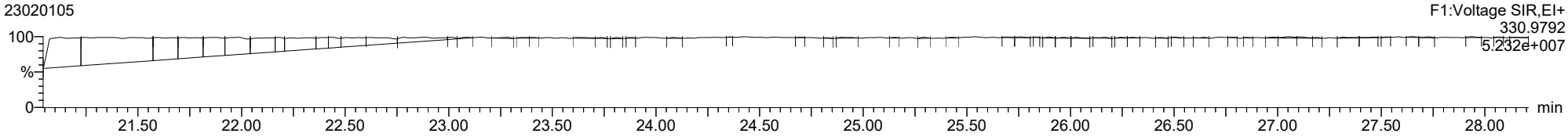

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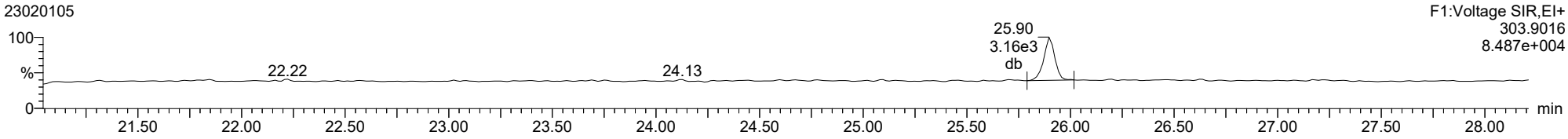

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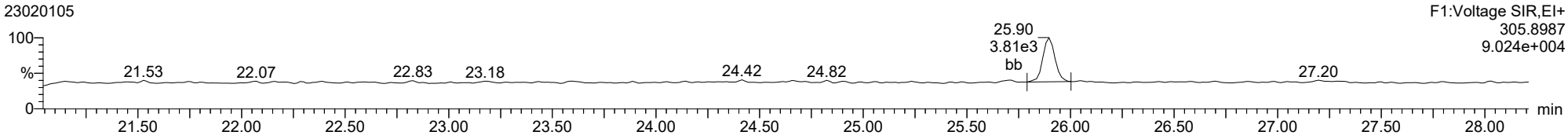

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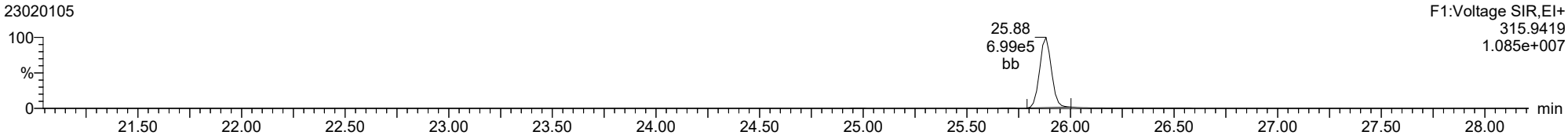

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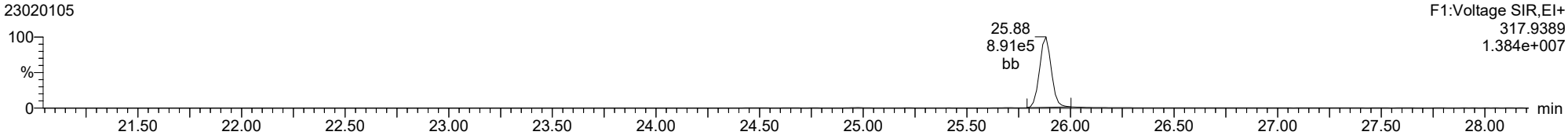

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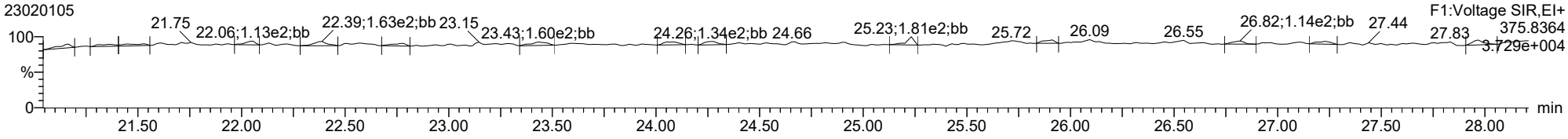

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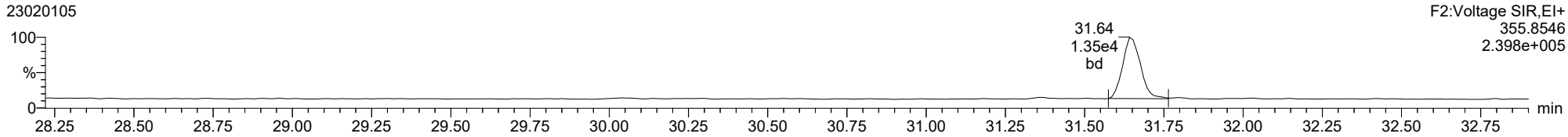

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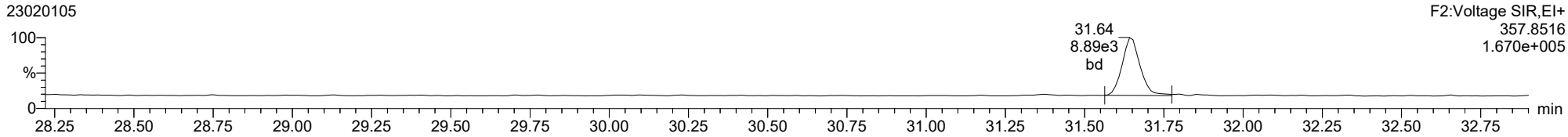

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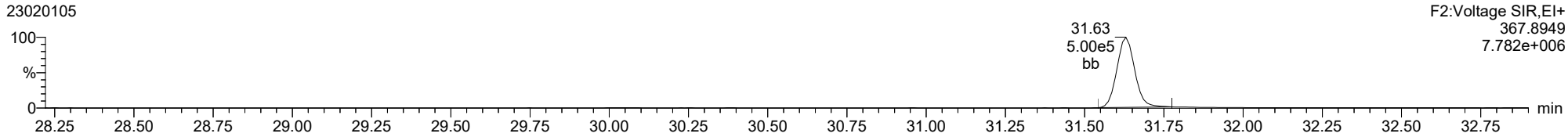

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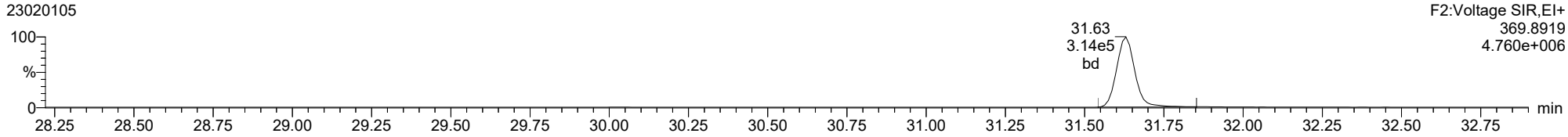
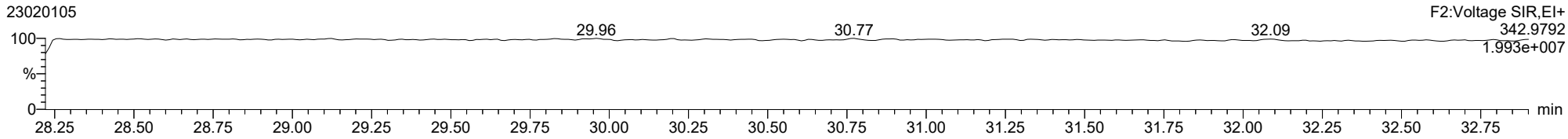


FUNCTION2 PFK



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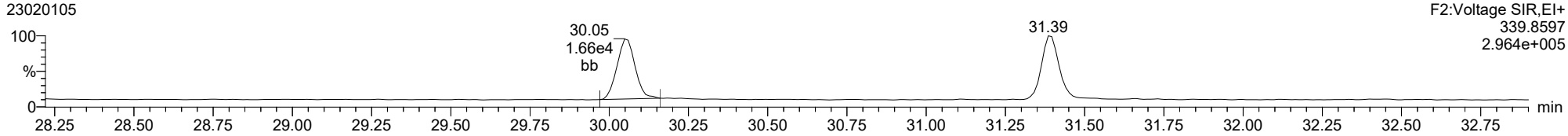

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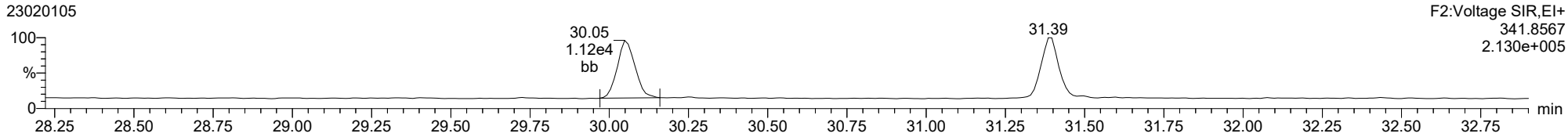

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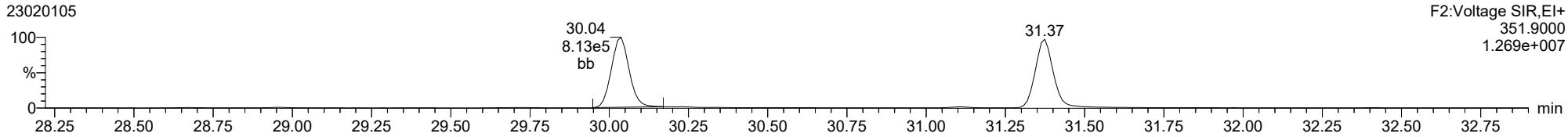

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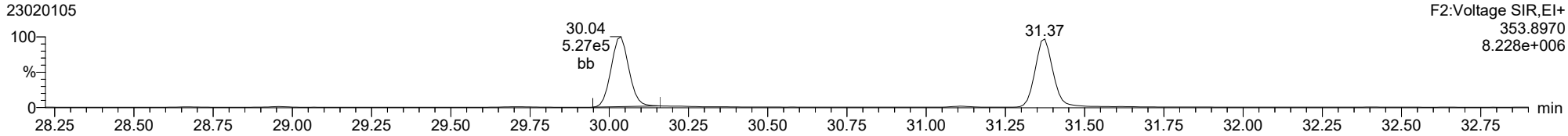
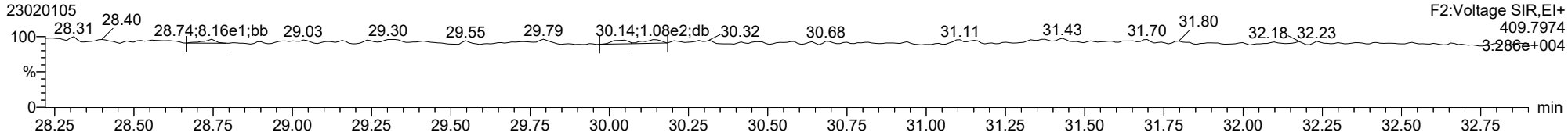


FUNCTION2 HPCDPE



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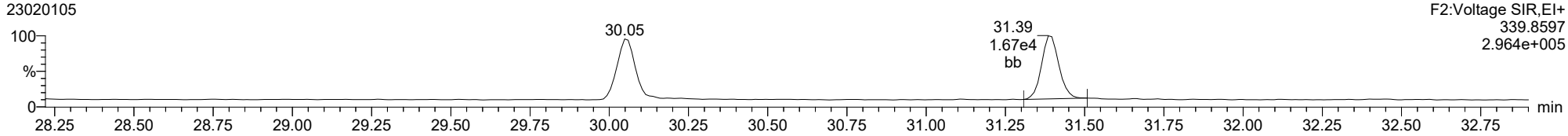
23478-PeCDF



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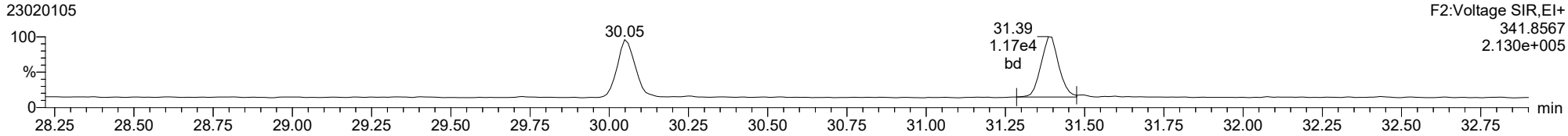

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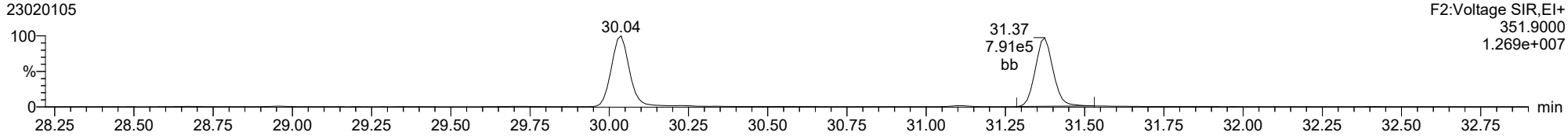
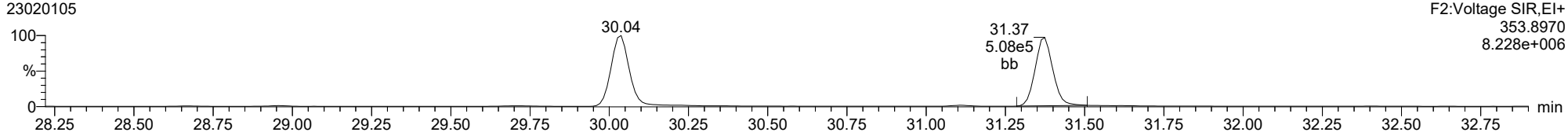
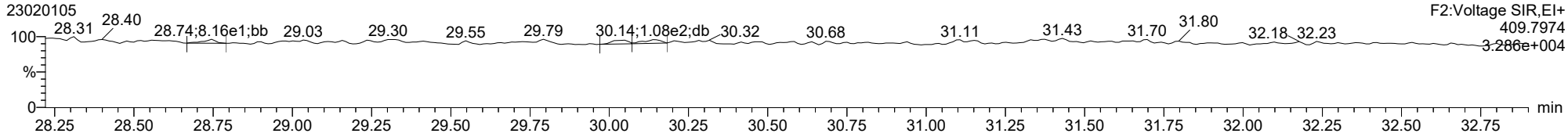


13C-23478-PeCDF



FUNCTION2 HPCDPE



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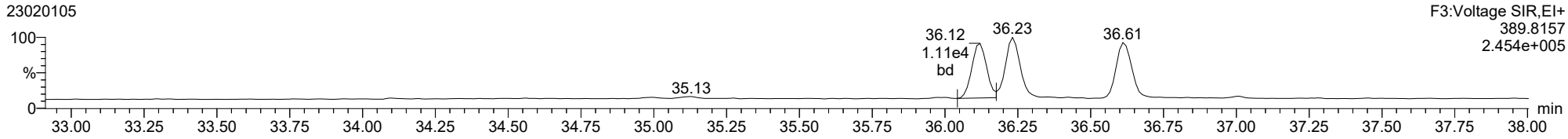
Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

123478-HxCDD



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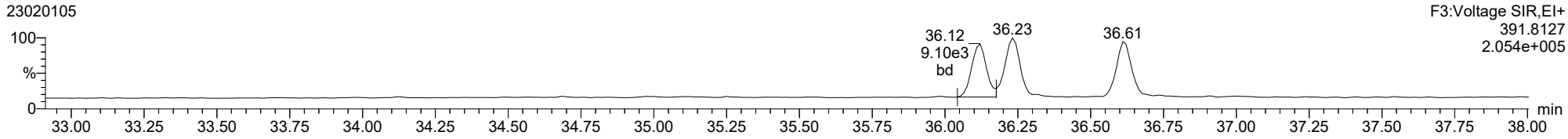

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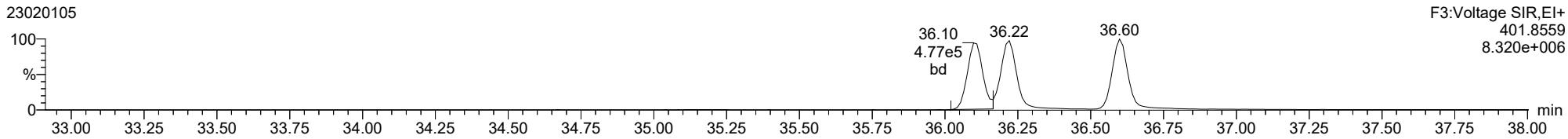

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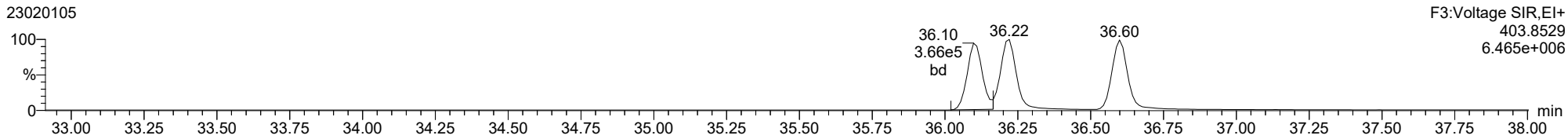

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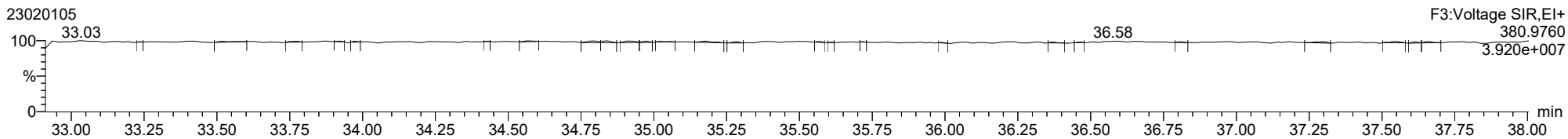

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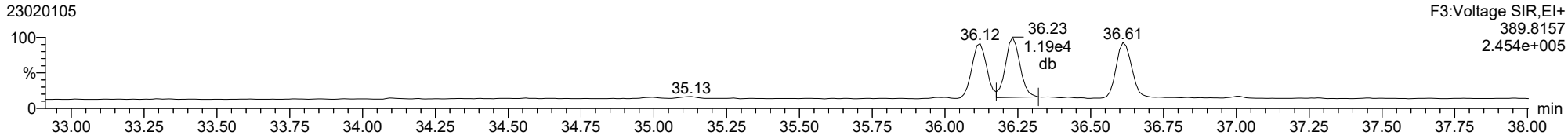

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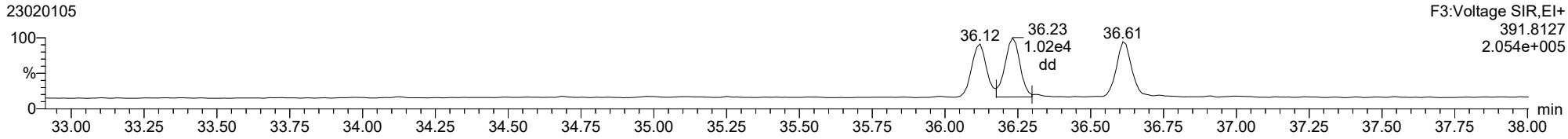

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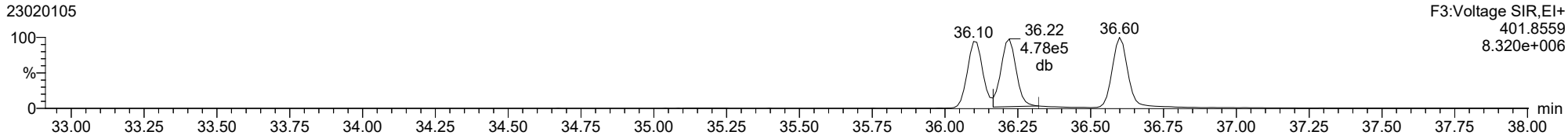

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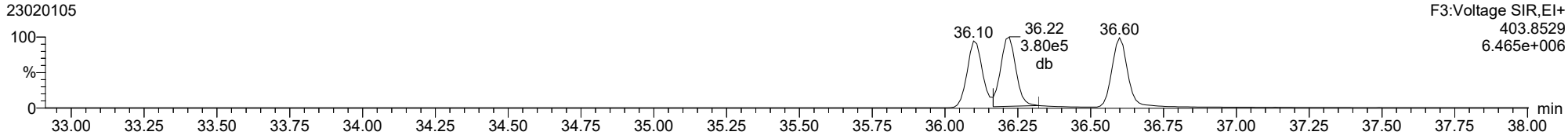

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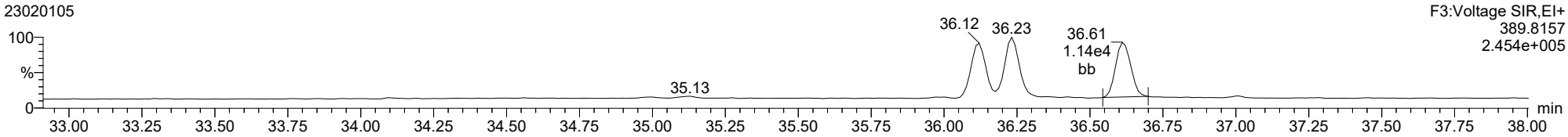

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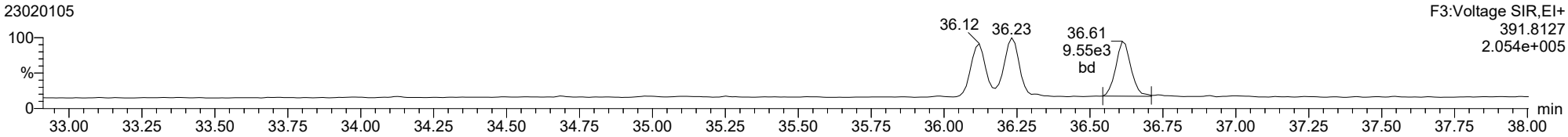

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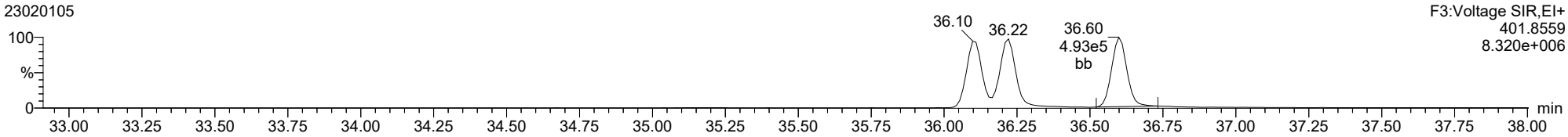

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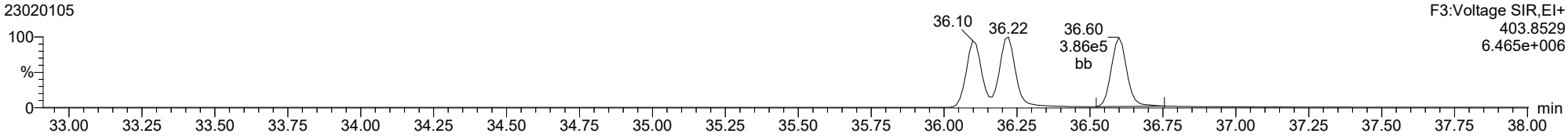

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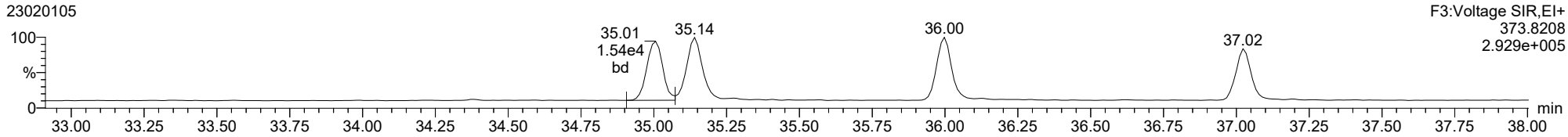

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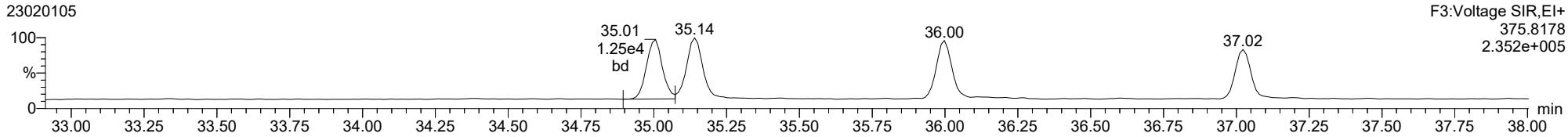

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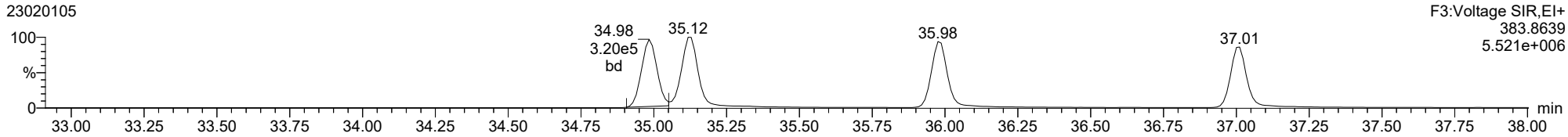

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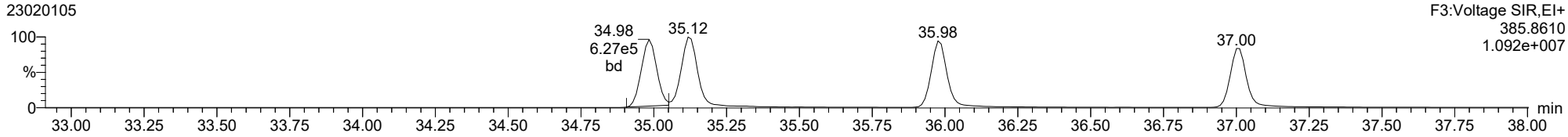

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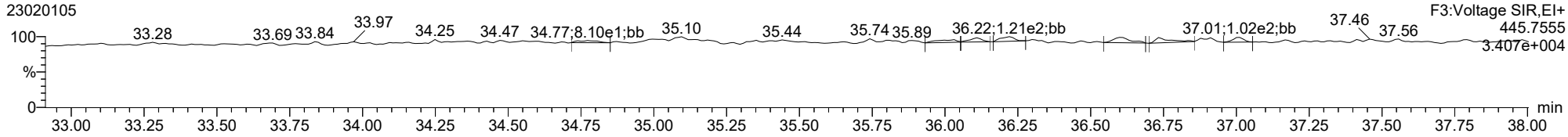

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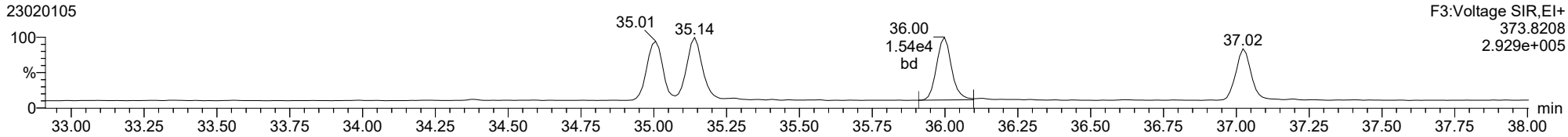
234678-HxCDF



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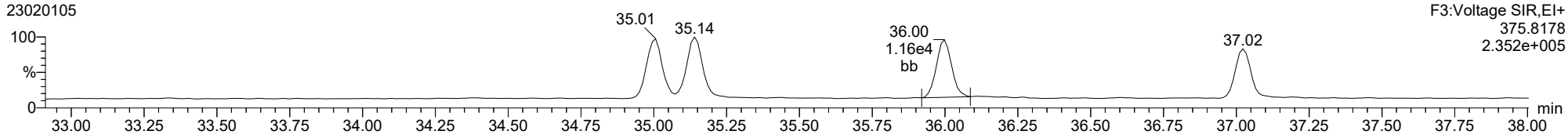

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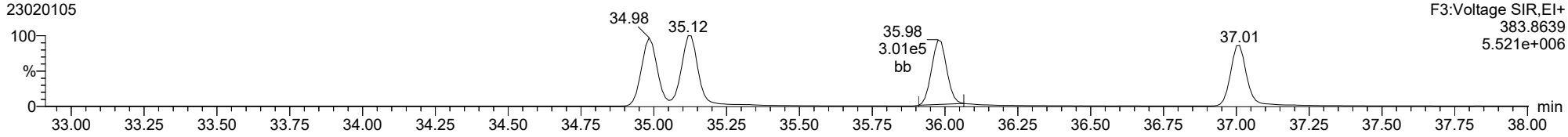

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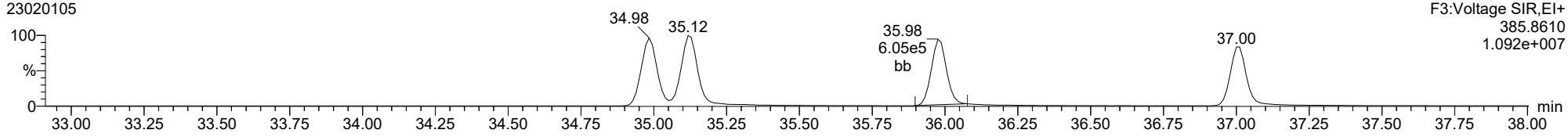

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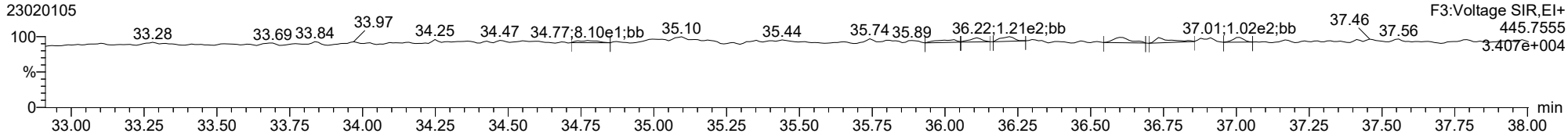

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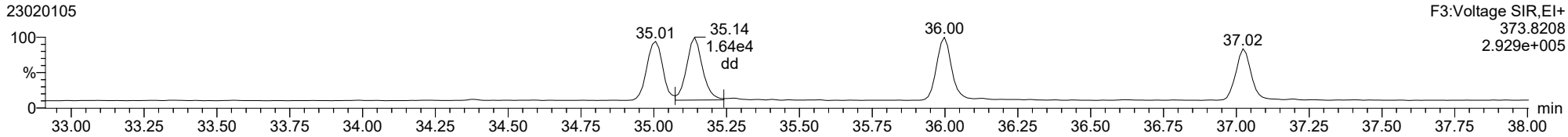

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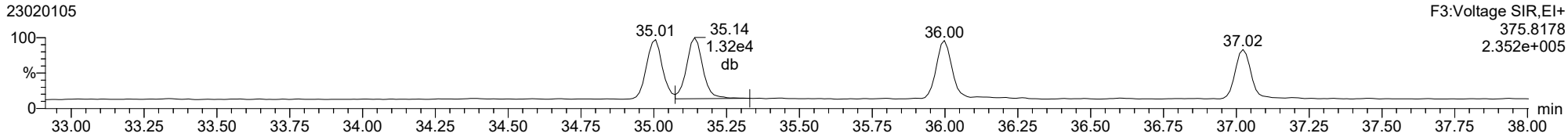

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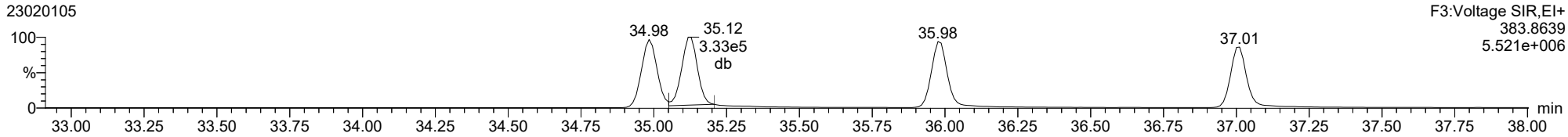

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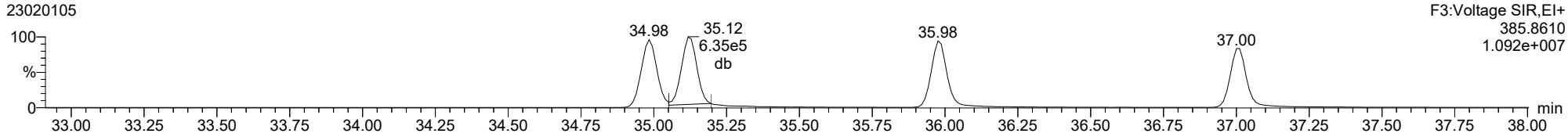

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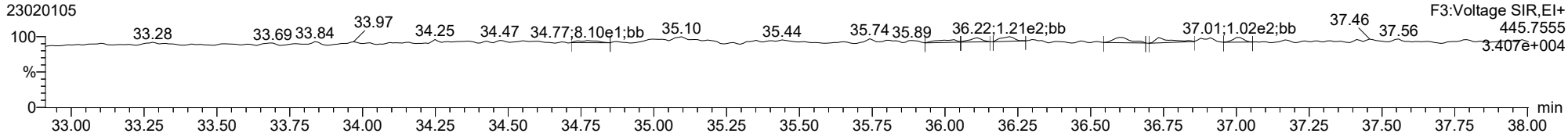

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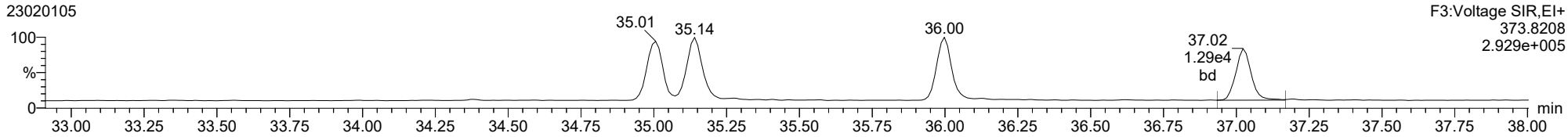

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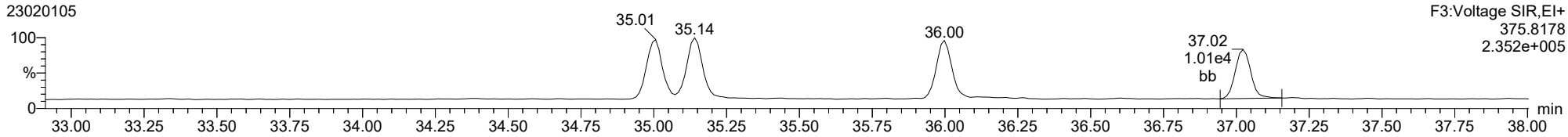

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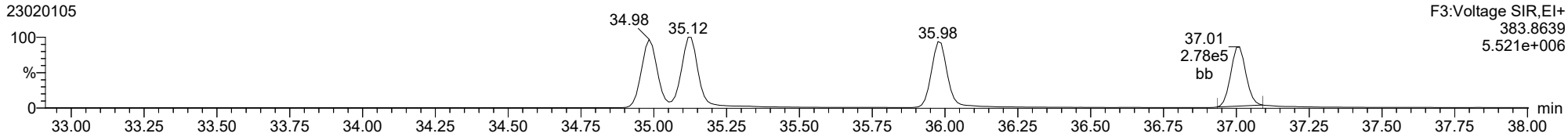

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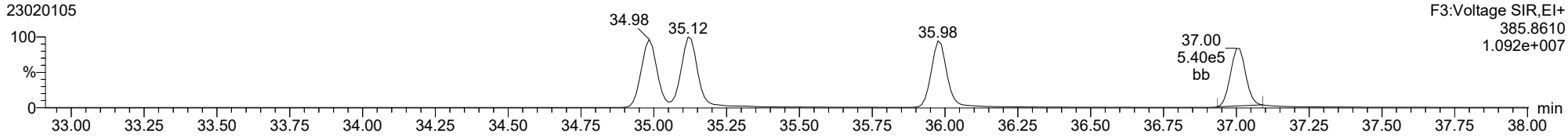
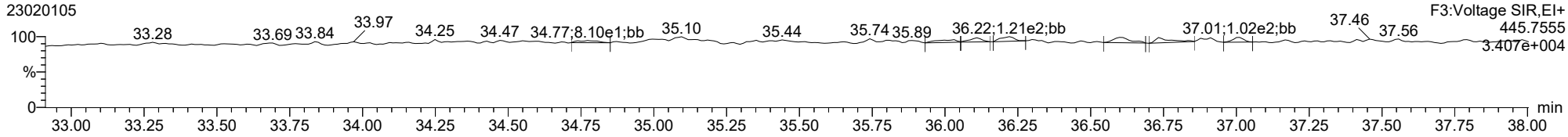


FUNCTION3 OCDPE



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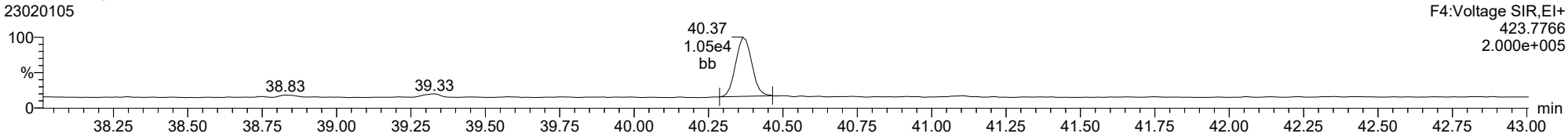
1234678-HpCDD



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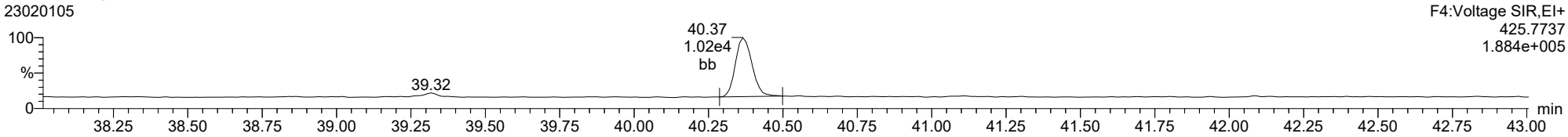

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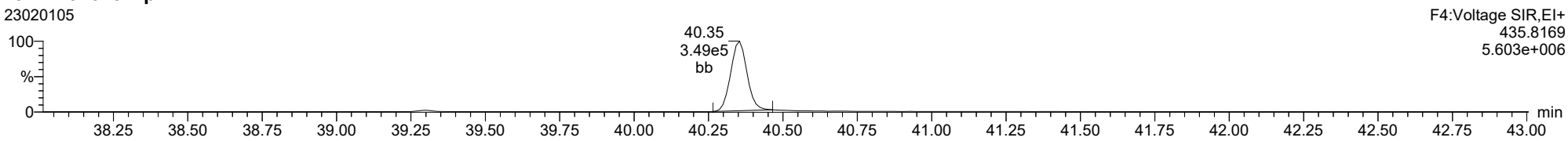

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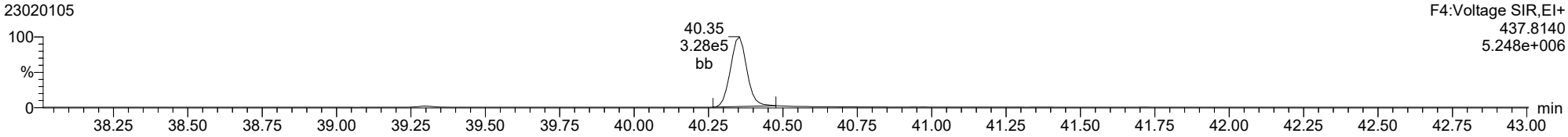
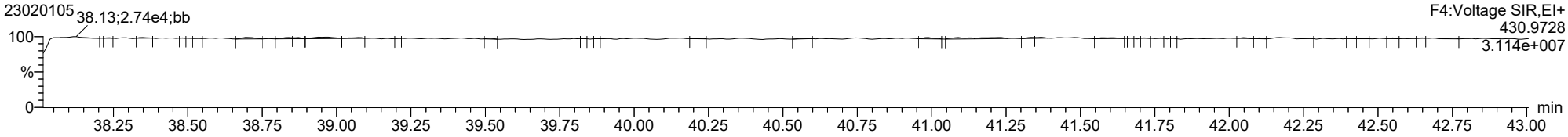


FUNCTION4 PFK



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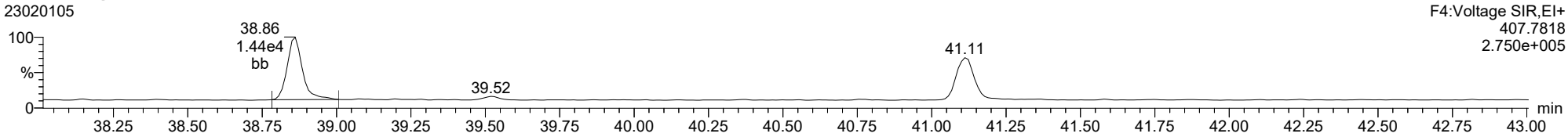

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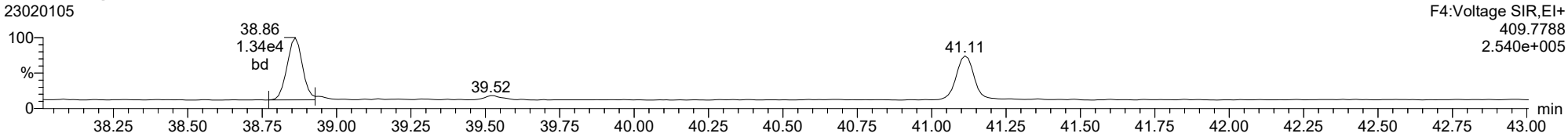

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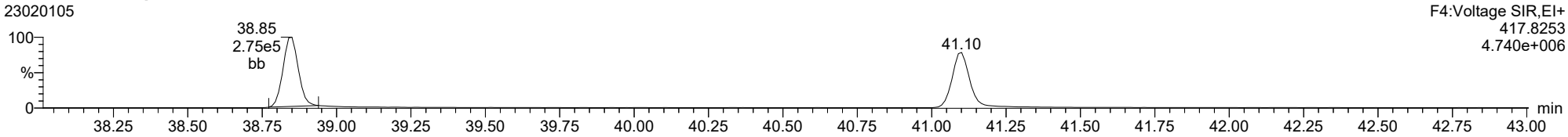

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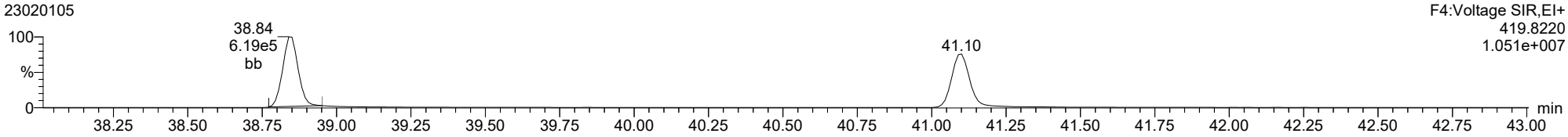

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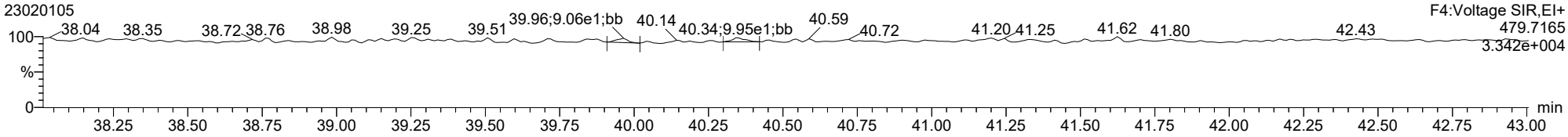

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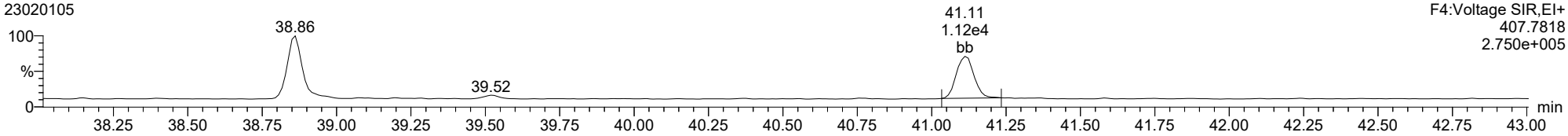

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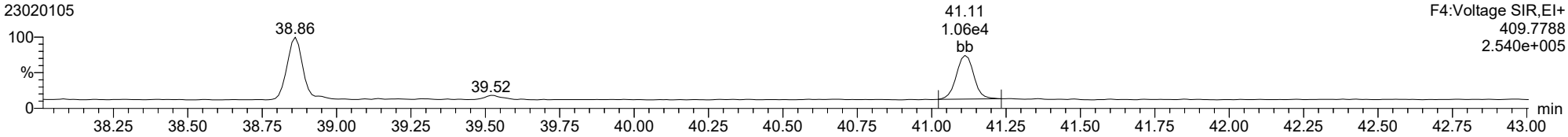

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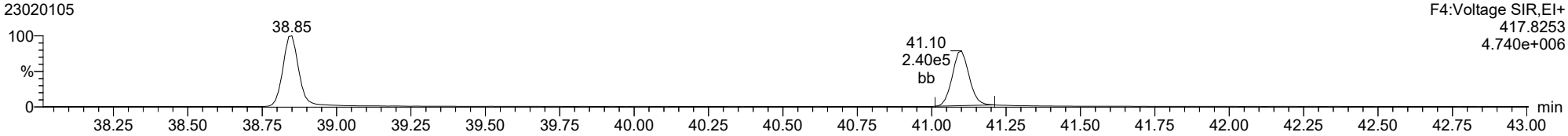

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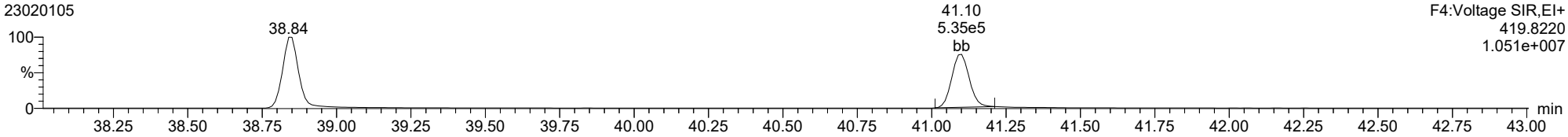
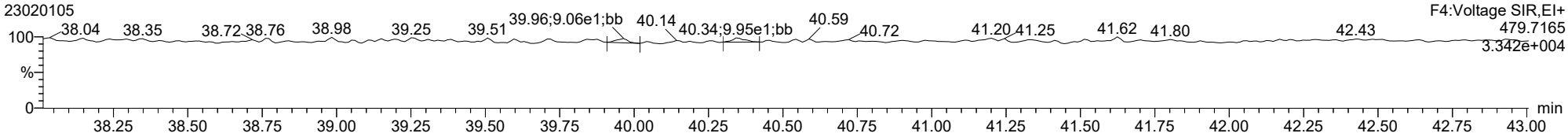


FUNCTION4 NCDPE



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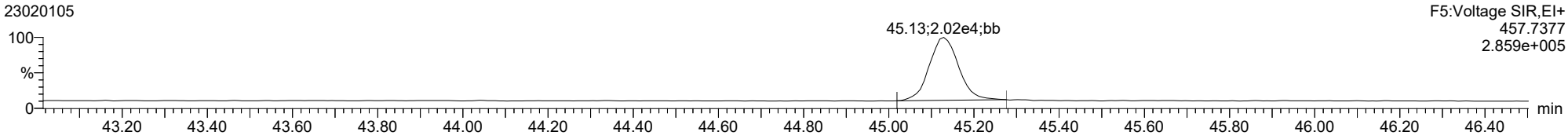
OCDD



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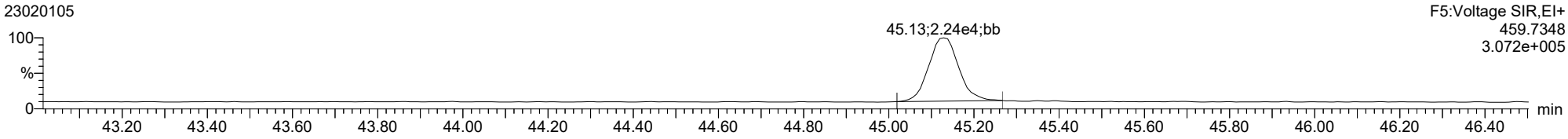

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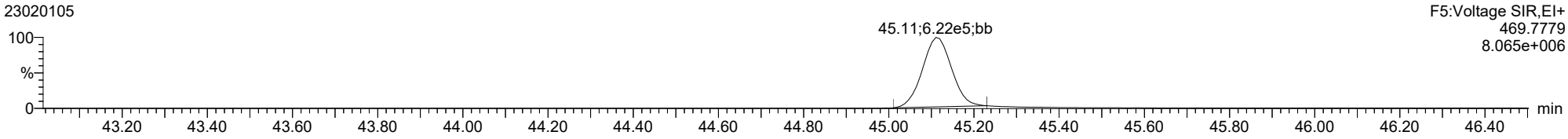

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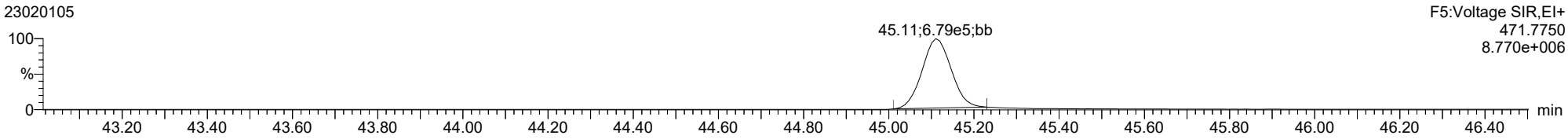
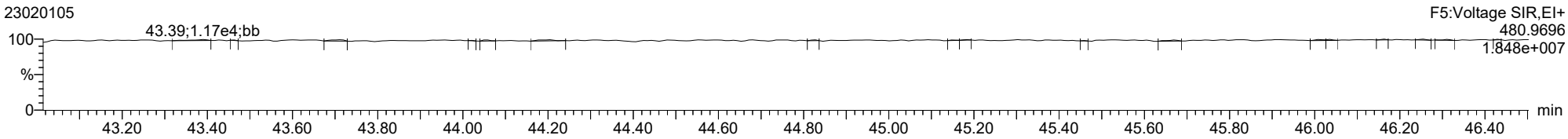


FUNCTION5 PFK



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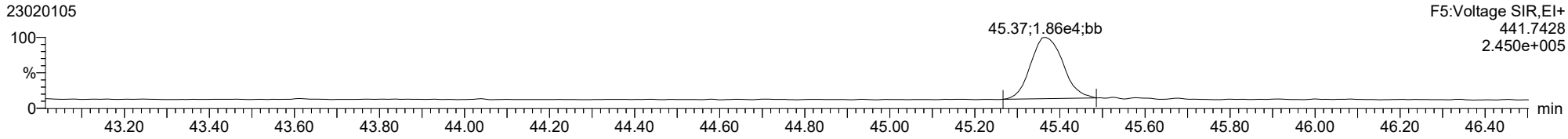
ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

OCDF



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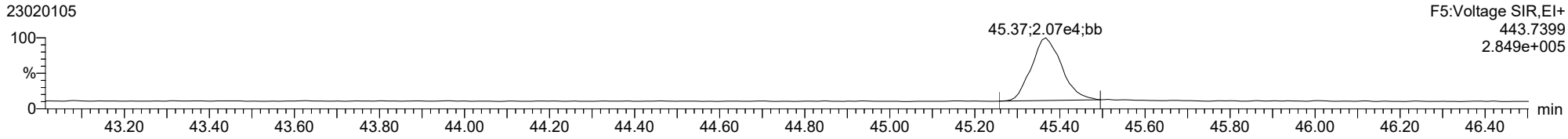
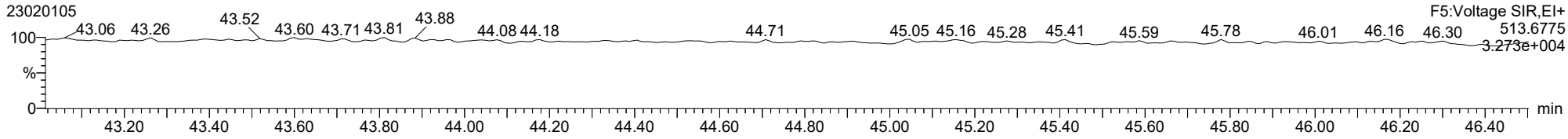


FUNCTION5 DCDPE



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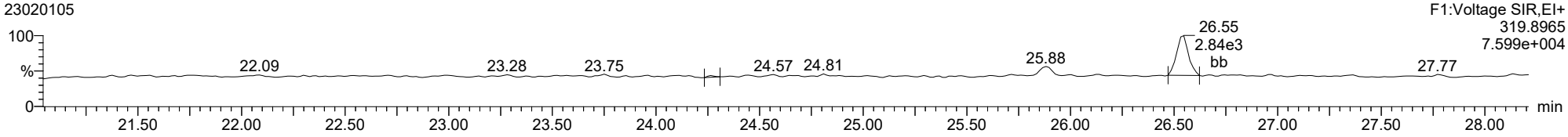
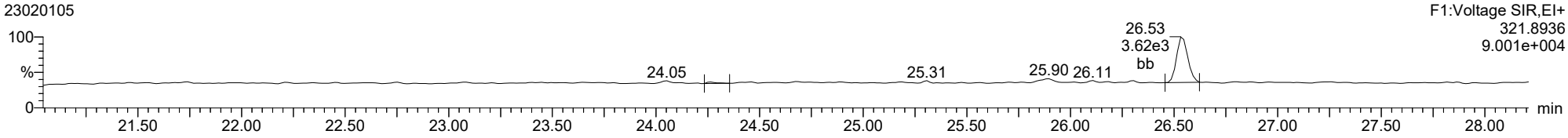
ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

Total-tetradioxins



Total-tetradioxins



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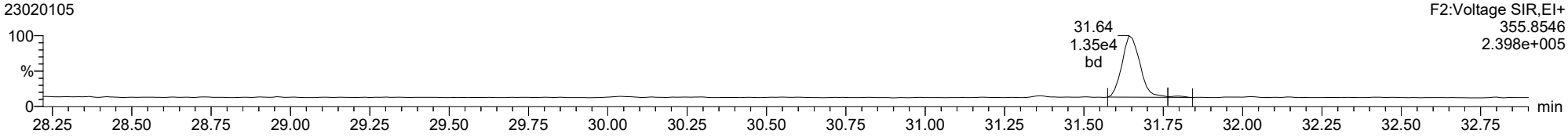
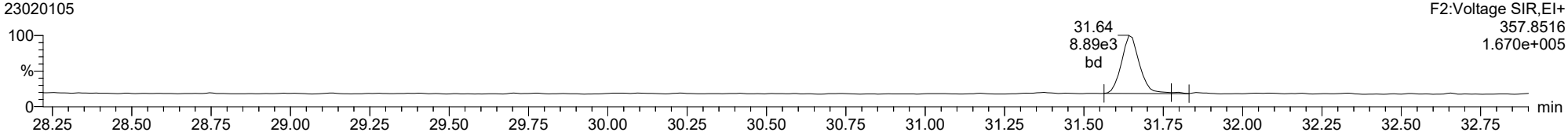


Total-pentadioxins



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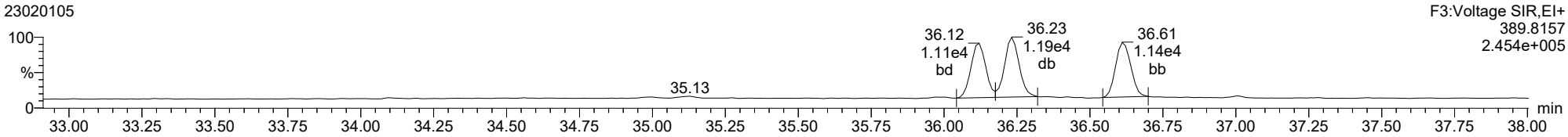
Total-hexadioxins



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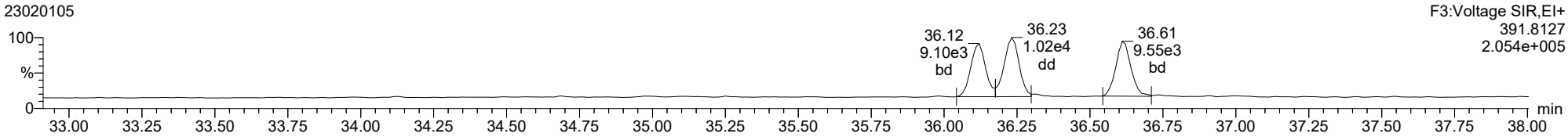

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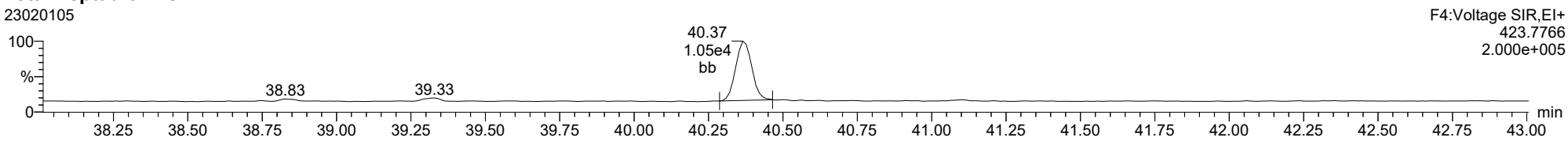

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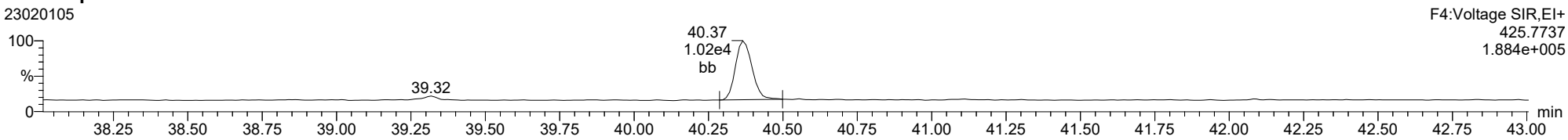

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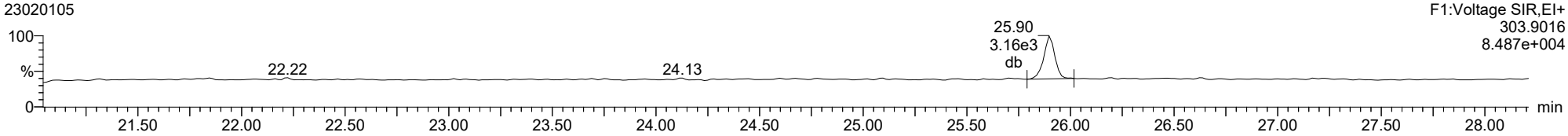

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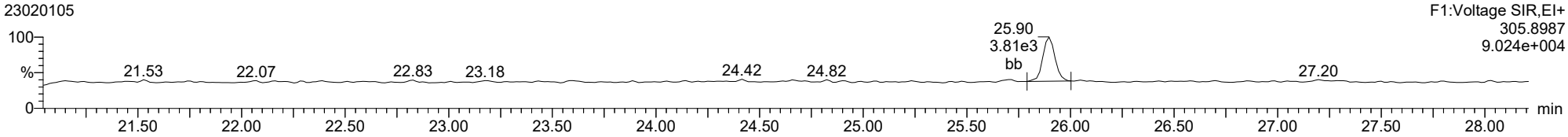

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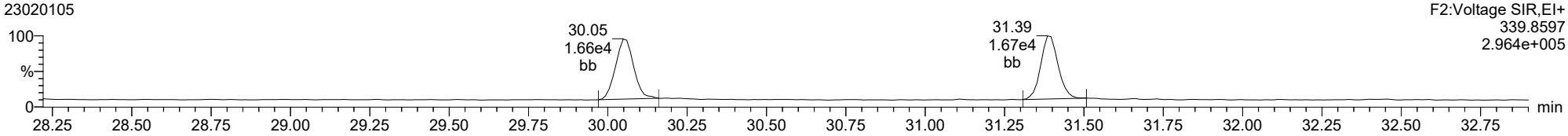

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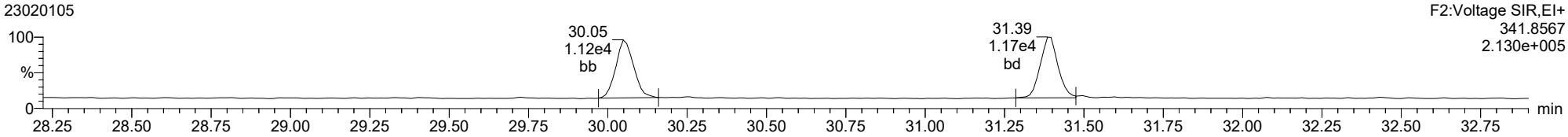

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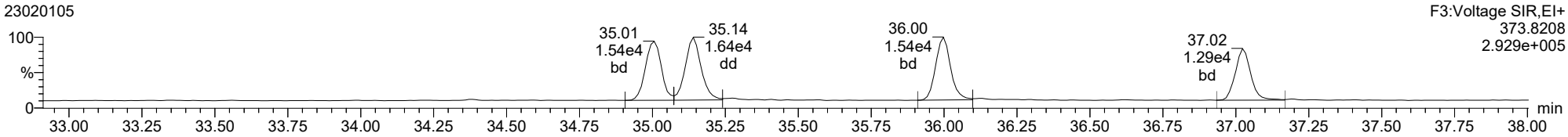

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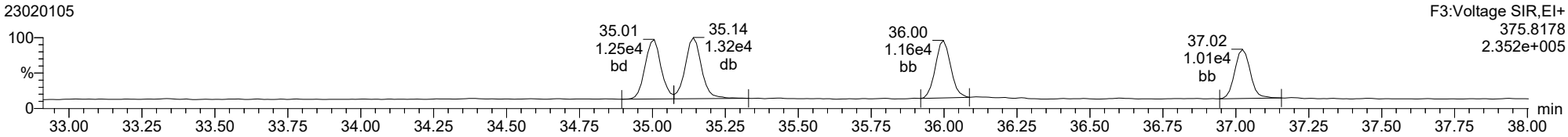

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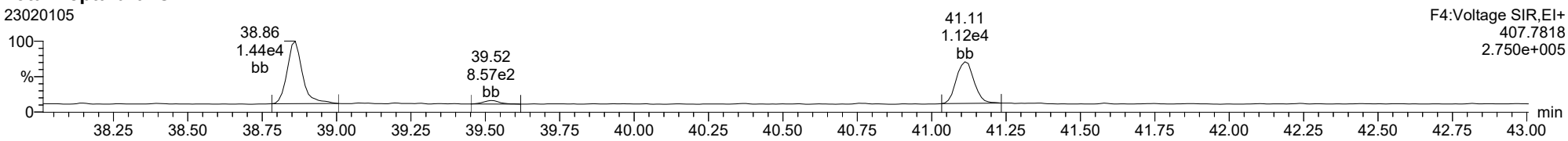

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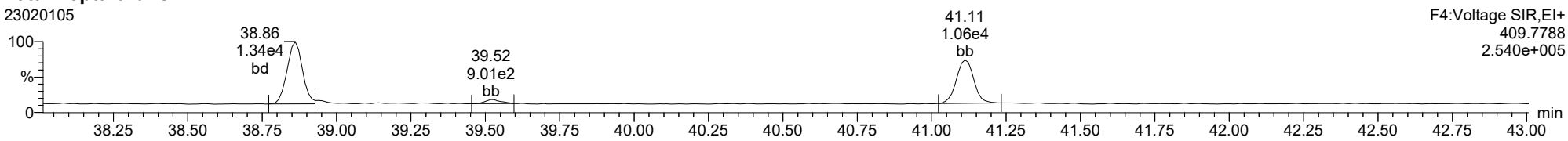

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Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: 03 Feb 2023 10:33:40

ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.897	1.001	1.375e4	1.851e4	0.876	0.743	0.770	838	1562	2.10e5	2.76e5	250.5	176.4	NO	bb	bb	1.973
12378-PeCDF	30.059	1.001	8.384e4	5.404e4	0.845	1.551	1.550	1494	1842	1.30e6	8.45e5	870.6	458.6	NO	bd	bd	10.086
23478-PeCDF	31.396	1.001	8.811e4	5.691e4	0.911	1.548	1.550	1494	1842	1.31e6	8.58e5	880.0	466.0	NO	dd	bd	10.430
123478-HxCDF	35.006	1.001	7.445e4	5.785e4	1.182	1.287	1.240	1528	1565	1.21e6	9.52e5	791.3	608.7	NO	bd	bd	9.662
234678-HxCDF	35.998	1.000	7.554e4	5.984e4	1.229	1.262	1.240	1528	1565	1.18e6	9.11e5	774.2	582.4	NO	bd	bd	10.016
123678-HxCDF	35.140	1.000	8.156e4	6.332e4	1.248	1.288	1.240	1528	1565	1.23e6	9.70e5	801.6	619.6	NO	dd	dd	9.876
123789-HxCDF	37.023	1.000	6.616e4	5.058e4	1.187	1.308	1.240	1528	1565	1.05e6	8.18e5	687.4	522.6	NO	bd	bd	9.712
1234678-HpCDF	38.861	1.000	6.989e4	6.457e4	1.204	1.082	1.050	1538	1410	1.20e6	1.09e6	782.0	769.9	NO	bd	bb	9.897
1234789-HpCDF	41.111	1.000	5.916e4	5.737e4	1.165	1.031	1.050	1538	1410	8.45e5	8.21e5	549.5	582.6	NO	bd	bd	10.092
OCDF	45.376	1.006	9.214e4	9.862e4	1.186	0.934	0.890	1525	1454	1.11e6	1.20e6	727.4	823.3	NO	bd	bb	18.863
2378-TCDD	26.547	1.001	1.298e4	1.586e4	1.236	0.818	0.770	817	918	1.95e5	2.41e5	239.3	262.4	NO	bb	bb	2.020
12378-PeCDD	31.653	1.001	6.323e4	4.003e4	1.087	1.579	1.550	957	1113	9.67e5	6.22e5	1010.9	558.7	NO	bb	bb	9.953
123478-HxCDD	36.120	1.000	5.350e4	4.542e4	0.987	1.178	1.240	1419	1111	9.15e5	7.70e5	644.4	692.8	NO	bd	bd	9.967
123678-HxCDD	36.232	1.000	5.670e4	4.717e4	1.021	1.202	1.240	1419	1111	9.21e5	7.75e5	649.0	697.0	NO	db	db	9.657
123789-HxCDD	36.621	1.011	5.462e4	4.396e4	0.985	1.243	1.240	1419	1111	9.23e5	7.40e5	650.4	666.2	NO	bb	bb	9.715
1234678-HpCDD	40.376	1.001	5.329e4	4.930e4	1.253	1.081	1.050	939	1025	8.27e5	7.64e5	880.9	744.9	NO	bd	bb	9.623
OCDD	45.129	1.000	8.911e4	9.822e4	1.103	0.907	0.890	1078	1353	1.09e6	1.23e6	1009.3	912.1	NO	bd	bb	19.929
13C-2378-TCDF	25.882	1.007	8.175e5	1.049e6	1.768	0.779	0.770	2768	1604	1.28e7	1.62e7	4615.3	10118.2	NO	bb	bb	98.406
13C-12378-PeCDF	30.037	1.168	9.651e5	6.534e5	1.527	1.477	1.550	2685	2564	1.52e7	9.92e6	5664.2	3868.0	NO	bb	bd	98.795
13C-23478-PeCDF	31.374	1.220	9.289e5	5.970e5	1.466	1.556	1.550	2685	2564	1.42e7	9.15e6	5285.2	3567.7	NO	bb	bb	97.006
13C-123478-HxCDF	34.984	0.956	3.919e5	7.668e5	1.054	0.511	0.510	2280	2951	6.27e6	1.23e7	2748.9	4152.3	NO	bd	bd	102.036
13C-123678-HxCDF	35.129	0.960	3.972e5	7.782e5	1.080	0.510	0.510	2280	2951	6.52e6	1.27e7	2858.6	4308.7	NO	db	db	100.982
13C-234678-HxCDF	35.987	0.983	3.723e5	7.276e5	1.014	0.512	0.510	2280	2951	6.20e6	1.20e7	2719.4	4079.1	NO	bb	bb	100.611
13C-123789-HxCDF	37.012	1.011	3.411e5	6.719e5	0.928	0.508	0.510	2280	2951	5.87e6	1.14e7	2576.5	3878.0	NO	bb	bb	101.286
13C-1234678-HpCDF	38.850	1.061	3.519e5	7.764e5	1.036	0.453	0.440	2948	3056	6.15e6	1.36e7	2085.9	4456.3	NO	bb	bb	101.034
13C-1234789-HpCDF	41.100	1.123	3.071e5	6.837e5	0.905	0.449	0.440	2948	3056	4.66e6	1.03e7	1581.8	3383.9	NO	bb	bb	101.592
13C-1234-TCDD	25.715	0.000	4.761e5	5.966e5	1.000	0.798	0.770	1722	1260	7.44e6	9.39e6	4318.3	7453.5	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.031	5.086e5	6.462e5	1.103	0.787	0.770	1722	1260	7.59e6	9.61e6	4407.4	7623.5	NO	bb	bb	97.603
13C-12378-PeCDD	31.631	1.230	5.873e5	3.674e5	0.914	1.599	1.550	1804	1493	9.15e6	5.75e6	5075.5	3848.9	NO	bb	bb	97.357
13C-123478-HxCDD	36.109	0.987	5.695e5	4.361e5	0.933	1.306	1.240	2351	1925	9.66e6	7.35e6	4110.6	3818.4	NO	bd	bd	100.012
13C-123678-HxCDD	36.221	0.990	5.923e5	4.615e5	0.965	1.283	1.240	2351	1925	9.93e6	7.73e6	4224.3	4014.3	NO	db	db	101.353
13C-1234678-HpCDD	40.354	1.103	4.427e5	4.084e5	0.782	1.084	1.050	2415	1836	6.98e6	6.52e6	2888.8	3549.1	NO	bb	bb	100.984
13C-OCDD	45.110	1.232	8.153e5	8.896e5	0.788	0.916	0.890	2586	2058	1.02e7	1.13e7	3959.4	5482.6	NO	bb	bb	200.686
13C-123789-HxCDD	36.599	0.000	5.962e5	4.816e5	1.000	1.238	1.240	2351	1925	9.93e6	8.01e6	4225.3	4157.6	NO	bb	bb	100.000
37CL-2378-TCDD	26.547	1.032	2.594e4		1.233			1770		3.86e5		217.9			bb		1.960

Dataset: T:\Autospec\Processed Data Batch\230201ICIH.qld
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	838	1562								
1289-TCDF					0.858		0.770	838	1562								
13468-PECDF					1.013		1.550	818	1180								
12389-PECDF					0.844		1.550	1494	1842								
123468-HXCDF					1.197		1.240	1528	1565								
1368-TCDD					1.084		0.770	817	918								
1289-TCDD					0.975		0.770	817	918								
12479-PECDD					1.837		1.550	957	1113								
12389-PECDD					1.252		1.550	957	1113								
124679-HXCDD					1.033		1.240	1419	1111								
1234679-HPCDD					1.286		1.050	939	1025								
Total-tetrafurans			1.375e4		0.933			838		2.10e5							1.973
Total-penta1			0.000e0					818		0.00e0							
Total-pentafurans			1.724e5		0.866			1494		2.63e6							20.570
Total-hexafurans			2.977e5		1.208			1528		4.67e6							39.267
Total-heptafurans			1.291e5		1.185			1538		2.05e6							19.990
Total-Furans			7.051e5		1.067			838		1.07e7							100.663
Total-tetradioxins			1.298e4		1.099			817		1.95e5							2.020
Total-pentadioxins			6.323e4		1.392			957		9.67e5							9.953
Total-hexadioxins			1.650e5		1.007			1419		2.76e6							29.363
Total-heptadioxins			5.329e4		1.269			939		8.27e5							9.623
Total-Dioxins			3.836e5		1.165			817		5.84e6							70.888
Total-TEQ			1.089e6					817		1.65e7							171.552
FUNCTION1 PFK			0.000e0					575758		0.00e0							
FUNCTION2 PFK			0.000e0					203146		0.00e0							
FUNCTION3 PFK			1.946e5					441294		6.25e6							0.000
FUNCTION4 PFK			6.766e5					326212		1.14e7							
FUNCTION5 PFK			7.829e4					177933		3.00e6							
FUNCTION1 HXCD...			6.944e2					716		1.19e4							0.000
FUNCTION1 HPCD...			4.187e2					801		7.47e3							0.000
FUNCTION2 HPCD...			7.244e2					1047		1.53e4							0.000
FUNCTION3 OCDPE			2.025e2					783		3.00e3							0.000
FUNCTION4 NCDPE			5.677e2					836		9.38e3							0.000
FUNCTION5 DCDPE			1.012e2					822		1.66e3							0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	1.375e4	1.851e4	0.876	0.74	0.77	250.5	YES	NO	bb	bb	1.973

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.40	8.811e4	5.691e4	0.911	1.55	1.55	880.0	YES	NO	dd	bd	10.430
2	Total-pentafurans	30.25	4.556e2	2.766e2	0.866	1.65	1.55	7.1	YES	NO	dd	db	0.054
3	12378-PeCDF	30.06	8.384e4	5.404e4	0.845	1.55	1.55	870.6	YES	NO	bd	bd	10.086

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	36.00	7.554e4	5.984e4	1.229	1.26	1.24	774.2	YES	NO	bd	bd	10.016
2	123678-HxCDF	35.14	8.156e4	6.332e4	1.248	1.29	1.24	801.6	YES	NO	dd	dd	9.876
3	123478-HxCDF	35.01	7.445e4	5.785e4	1.182	1.29	1.24	791.3	YES	NO	bd	bd	9.662
4	123789-HxCDF	37.02	6.616e4	5.058e4	1.187	1.31	1.24	687.4	YES	NO	bd	bd	9.712

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.11	5.916e4	5.737e4	1.165	1.03	1.05	549.5	YES	NO	bd	bd	10.092
2	1234678-HpCDF	38.86	6.989e4	6.457e4	1.204	1.08	1.05	782.0	YES	NO	bd	bb	9.897

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	1.375e4	1.851e4	0.876	0.74	0.77	250.5	YES	NO	bb	bb	1.973
2	23478-PeCDF	31.40	8.811e4	5.691e4	0.911	1.55	1.55	880.0	YES	NO	dd	bd	10.430
3	Total-pentafurans	30.25	4.556e2	2.766e2	0.866	1.65	1.55	7.1	YES	NO	dd	db	0.054
4	12378-PeCDF	30.06	8.384e4	5.404e4	0.845	1.55	1.55	870.6	YES	NO	bd	bd	10.086
5	234678-HxCDF	36.00	7.554e4	5.984e4	1.229	1.26	1.24	774.2	YES	NO	bd	bd	10.016
6	123678-HxCDF	35.14	8.156e4	6.332e4	1.248	1.29	1.24	801.6	YES	NO	dd	dd	9.876
7	123478-HxCDF	35.01	7.445e4	5.785e4	1.182	1.29	1.24	791.3	YES	NO	bd	bd	9.662
8	123789-HxCDF	37.02	6.616e4	5.058e4	1.187	1.31	1.24	687.4	YES	NO	bd	bd	9.712
9	1234789-HpCDF	41.11	5.916e4	5.737e4	1.165	1.03	1.05	549.5	YES	NO	bd	bd	10.092
10	1234678-HpCDF	38.86	6.989e4	6.457e4	1.204	1.08	1.05	782.0	YES	NO	bd	bb	9.897
11	OCDF	45.38	9.214e4	9.862e4	1.186	0.93	0.89	727.4	YES	NO	bd	bb	18.863

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.55	1.298e4	1.586e4	1.236	0.82	0.77	239.3	YES	NO	bb	bb	2.020

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.65	6.323e4	4.003e4	1.087	1.58	1.55	1010.9	YES	NO	bb	bb	9.953

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	36.88	1.448e2	1.055e2	1.007	1.37	1.24	2.8	NO	NO	bb	bb	0.024
2	123789-HxCDD	36.62	5.462e4	4.396e4	0.985	1.24	1.24	650.4	YES	NO	bb	bb	9.715
3	123678-HxCDD	36.23	5.670e4	4.717e4	1.021	1.20	1.24	649.0	YES	NO	db	db	9.657
4	123478-HxCDD	36.12	5.350e4	4.542e4	0.987	1.18	1.24	644.4	YES	NO	bd	bd	9.967

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.38	5.329e4	4.930e4	1.253	1.08	1.05	880.9	YES	NO	bd	bb	9.623

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.65	6.323e4	4.003e4	1.087	1.58	1.55	1010.9	YES	NO	bb	bb	9.953
2	2378-TCDD	26.55	1.298e4	1.586e4	1.236	0.82	0.77	239.3	YES	NO	bb	bb	2.020
3	Total-hexadioxins	36.88	1.448e2	1.055e2	1.007	1.37	1.24	2.8	NO	NO	bb	bb	0.024
4	123789-HxCDD	36.62	5.462e4	4.396e4	0.985	1.24	1.24	650.4	YES	NO	bb	bb	9.715
5	123678-HxCDD	36.23	5.670e4	4.717e4	1.021	1.20	1.24	649.0	YES	NO	db	db	9.657
6	123478-HxCDD	36.12	5.350e4	4.542e4	0.987	1.18	1.24	644.4	YES	NO	bd	bd	9.967
7	1234678-HpCDD	40.38	5.329e4	4.930e4	1.253	1.08	1.05	880.9	YES	NO	bd	bb	9.623
8	OCDD	45.13	8.911e4	9.822e4	1.103	0.91	0.89	1009.3	YES	NO	bd	bb	19.929

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	1.375e4	1.851e4	0.876	0.74	0.77	250.5	YES	NO	bb	bb	1.973
2	23478-PeCDF	31.40	8.811e4	5.691e4	0.911	1.55	1.55	880.0	YES	NO	dd	bd	10.430
3	Total-pentafurans	30.25	4.556e2	2.766e2	0.866	1.65	1.55	7.1	YES	NO	dd	db	0.054
4	12378-PeCDF	30.06	8.384e4	5.404e4	0.845	1.55	1.55	870.6	YES	NO	bd	bd	10.086
5	234678-HxCDF	36.00	7.554e4	5.984e4	1.229	1.26	1.24	774.2	YES	NO	bd	bd	10.016
6	123678-HxCDF	35.14	8.156e4	6.332e4	1.248	1.29	1.24	801.6	YES	NO	dd	dd	9.876
7	123478-HxCDF	35.01	7.445e4	5.785e4	1.182	1.29	1.24	791.3	YES	NO	bd	bd	9.662
8	123789-HxCDF	37.02	6.616e4	5.058e4	1.187	1.31	1.24	687.4	YES	NO	bd	bd	9.712
9	1234789-HpCDF	41.11	5.916e4	5.737e4	1.165	1.03	1.05	549.5	YES	NO	bd	bd	10.092
10	1234678-HpCDF	38.86	6.989e4	6.457e4	1.204	1.08	1.05	782.0	YES	NO	bd	bb	9.897
11	OCDF	45.38	9.214e4	9.862e4	1.186	0.93	0.89	727.4	YES	NO	bd	bb	18.863
12	12378-PeCDD	31.65	6.323e4	4.003e4	1.087	1.58	1.55	1010.9	YES	NO	bb	bb	9.953
13	2378-TCDD	26.55	1.298e4	1.586e4	1.236	0.82	0.77	239.3	YES	NO	bb	bb	2.020
14	Total-hexadioxins	36.88	1.448e2	1.055e2	1.007	1.37	1.24	2.8	NO	NO	bb	bb	0.024
15	123789-HxCDD	36.62	5.462e4	4.396e4	0.985	1.24	1.24	650.4	YES	NO	bb	bb	9.715
16	123678-HxCDD	36.23	5.670e4	4.717e4	1.021	1.20	1.24	649.0	YES	NO	db	db	9.657
17	123478-HxCDD	36.12	5.350e4	4.542e4	0.987	1.18	1.24	644.4	YES	NO	bd	bd	9.967
18	1234678-HpCDD	40.38	5.329e4	4.930e4	1.253	1.08	1.05	880.9	YES	NO	bd	bb	9.623
19	OCDD	45.13	8.911e4	9.822e4	1.103	0.91	0.89	1009.3	YES	NO	bd	bb	19.929

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.84	3.684e4					1.4	NO		bb		0.000
2	FUNCTION3 PFK	37.56	3.248e4					1.4	NO		bb		0.000
3	FUNCTION3 PFK	37.40	1.502e4					1.5	NO		bb		0.000
4	FUNCTION3 PFK	36.84	6.471e3					0.8	NO		bb		0.000
5	FUNCTION3 PFK	36.52	9.443e3					0.9	NO		bb		0.000
6	FUNCTION3 PFK	36.37	4.140e3					0.7	NO		db		0.000
7	FUNCTION3 PFK	36.33	1.297e4					1.2	NO		bd		0.000
8	FUNCTION3 PFK	36.13	6.608e3					0.8	NO		bb		0.000
9	FUNCTION3 PFK	35.98	2.009e4					1.5	NO		bb		0.000
10	FUNCTION3 PFK	35.88	2.554e3					0.5	NO		bb		0.000
11	FUNCTION3 PFK	34.30	1.671e4					1.6	NO		bb		0.000
12	FUNCTION3 PFK	34.23	8.316e3					0.4	NO		bb		0.000
13	FUNCTION3 PFK	33.98	2.293e4					1.5	NO		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.23	5.785e4					4.4	YES		dd		
2	FUNCTION4 PFK	38.15	1.010e5					5.4	YES		dd		
3	FUNCTION4 PFK	38.09	1.883e5					5.6	YES		bd		
4	FUNCTION4 PFK	42.87	1.204e4					1.0	NO		bb		
5	FUNCTION4 PFK	42.31	2.496e4					1.3	NO		bb		
6	FUNCTION4 PFK	41.49	1.586e4					1.0	NO		bb		
7	FUNCTION4 PFK	41.10	1.494e4					1.1	NO		bb		
8	FUNCTION4 PFK	40.87	1.555e4					1.4	NO		bb		
9	FUNCTION4 PFK	40.79	1.700e4					1.3	NO		bb		
10	FUNCTION4 PFK	40.65	5.082e3					0.8	NO		bb		
11	FUNCTION4 PFK	40.61	1.525e3					0.4	NO		bb		
12	FUNCTION4 PFK	40.14	1.620e4					1.6	NO		bb		
13	FUNCTION4 PFK	39.90	9.157e3					1.0	NO		bb		
14	FUNCTION4 PFK	39.83	9.091e3					1.1	NO		bb		
15	FUNCTION4 PFK	39.77	4.172e3					0.6	NO		bb		
16	FUNCTION4 PFK	39.63	1.903e3					0.5	NO		bb		
17	FUNCTION4 PFK	39.46	1.766e4					0.8	NO		bb		
18	FUNCTION4 PFK	38.45	3.531e4					1.7	NO		db		
19	FUNCTION4 PFK	38.27	1.290e5					3.8	YES		dd		

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.27	9.001e2					0.6	NO		bb		
2	FUNCTION5 PFK	46.15	5.202e3					1.0	NO		bb		
3	FUNCTION5 PFK	45.97	3.660e3					1.2	NO		bb		
4	FUNCTION5 PFK	45.51	1.153e4					2.2	NO		bb		
5	FUNCTION5 PFK	45.41	4.532e3					1.3	NO		db		
6	FUNCTION5 PFK	45.38	1.706e3					0.8	NO		bd		
7	FUNCTION5 PFK	45.15	2.865e3					1.0	NO		bb		
8	FUNCTION5 PFK	44.80	1.877e3					0.7	NO		bb		
9	FUNCTION5 PFK	44.65	3.851e3					1.1	NO		bb		
10	FUNCTION5 PFK	44.56	1.141e4					1.8	NO		bb		
11	FUNCTION5 PFK	44.31	2.169e4					1.9	NO		bb		
12	FUNCTION5 PFK	43.92	8.765e2					0.5	NO		bb		
13	FUNCTION5 PFK	43.88	8.623e2					0.5	NO		db		
14	FUNCTION5 PFK	43.86	1.005e3					0.6	NO		bd		
15	FUNCTION5 PFK	43.82	4.471e3					1.0	NO		bb		
16	FUNCTION5 PFK	46.36	1.842e3					0.7	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.26	9.013e1					2.4	NO		bb		0.000
2	FUNCTION1 HXCD...	26.52	1.374e2					3.3	YES		bb		0.000
3	FUNCTION1 HXCD...	26.35	1.141e2					2.2	NO		bb		0.000
4	FUNCTION1 HXCD...	25.31	7.923e1					2.3	NO		bb		0.000
5	FUNCTION1 HXCD...	24.07	1.307e2					3.2	YES		bb		0.000
6	FUNCTION1 HXCD...	22.72	1.428e2					3.3	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.58	7.978e1					2.2	NO		db		0.000
2	FUNCTION1 HPCD...	26.53	1.102e2					2.3	NO		bd		0.000
3	FUNCTION1 HPCD...	24.69	7.048e1					1.7	NO		bb		0.000
4	FUNCTION1 HPCD...	24.48	8.580e1					1.5	NO		bb		0.000
5	FUNCTION1 HPCD...	21.38	7.239e1					1.7	NO		bb		0.000

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ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	28.37	7.170e1					2.5	NO		bb		0.000
2	FUNCTION2 HPCD...	31.76	2.583e2					2.7	NO		db		0.000
3	FUNCTION2 HPCD...	31.64	1.965e2					4.2	YES		bd		0.000
4	FUNCTION2 HPCD...	31.30	1.054e2					1.6	NO		bb		0.000
5	FUNCTION2 HPCD...	29.60	9.241e1					3.7	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.22	9.361e1					1.8	NO		bb		0.000
2	FUNCTION3 OCDPE	33.01	1.089e2					2.0	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.21	1.123e2					2.3	NO		db		0.000
2	FUNCTION4 NCDPE	41.16	1.047e2					2.3	NO		bd		0.000
3	FUNCTION4 NCDPE	41.00	7.125e1					1.9	NO		bb		0.000
4	FUNCTION4 NCDPE	38.88	9.103e1					1.9	NO		bb		0.000
5	FUNCTION4 NCDPE	38.50	1.884e2					2.9	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.32	1.012e2					2.0	NO		bb		0.000

Dataset: T:\Autospec\Processed Data Batch\230201ICIH.qld
Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:37:25 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: 03 Feb 2023 10:33:40

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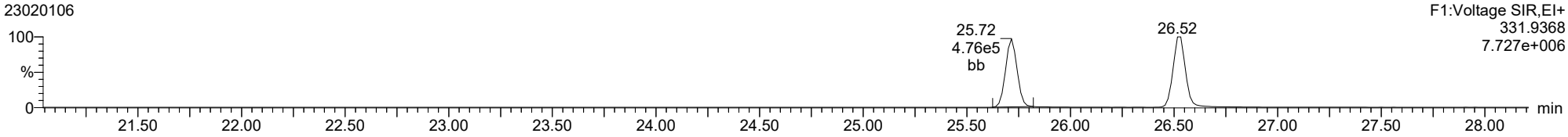
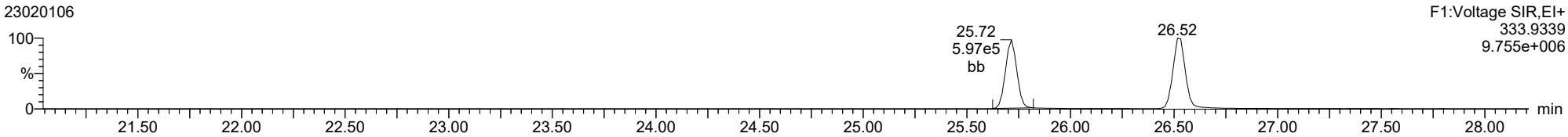
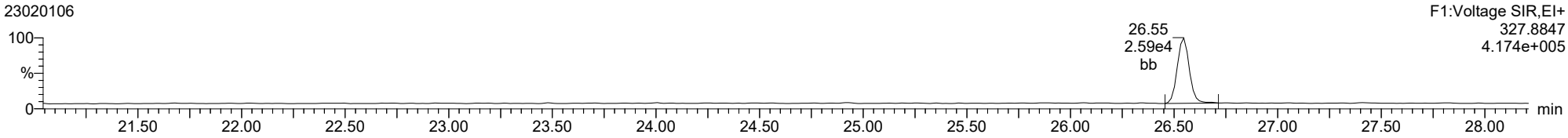
13C-1234-TCDD



13C-1234-TCDD



37CL-2378-TCDD



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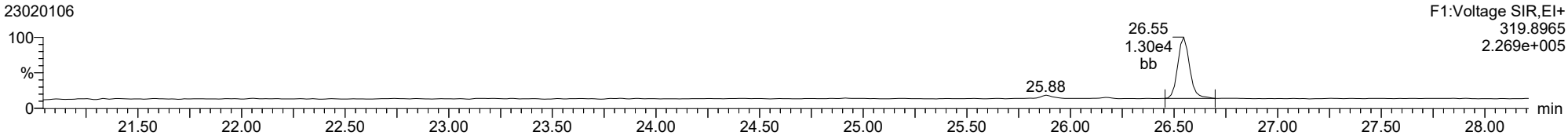
2378-TCDD



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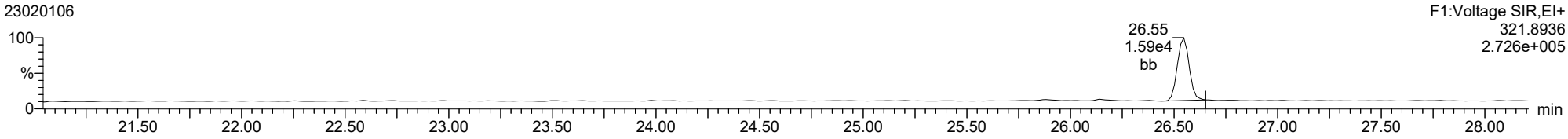

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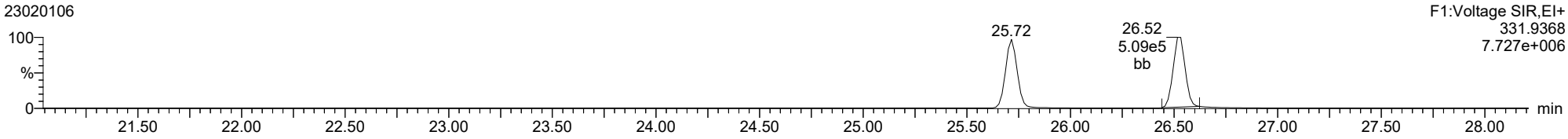

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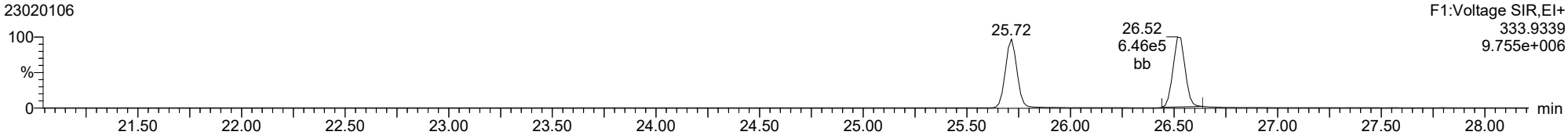

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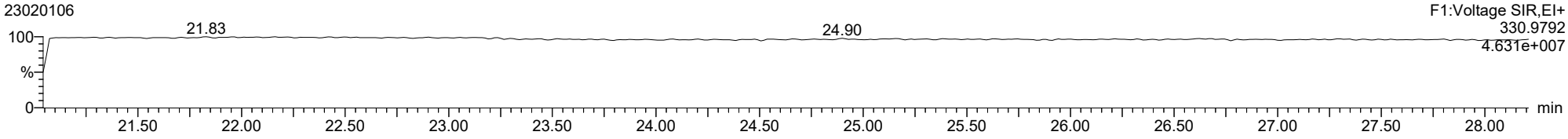

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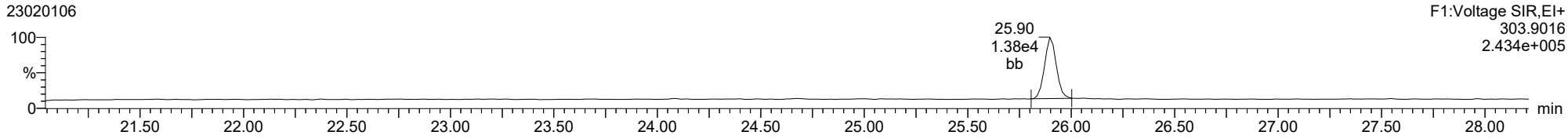

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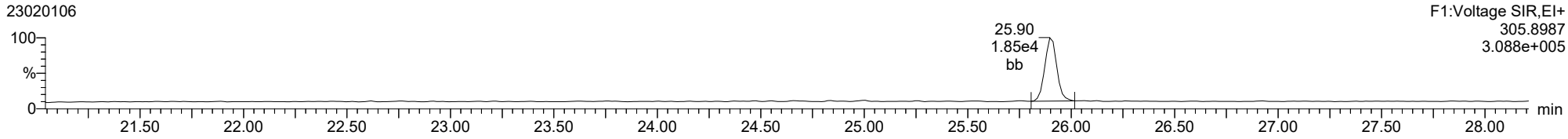

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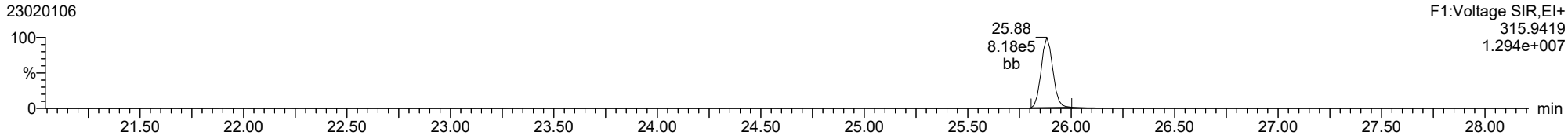

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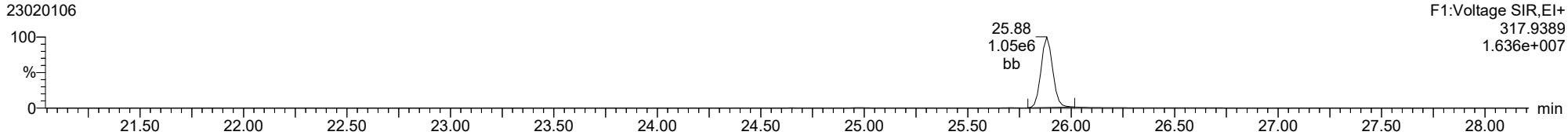

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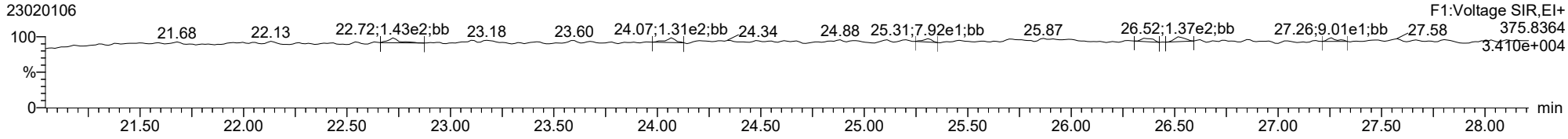

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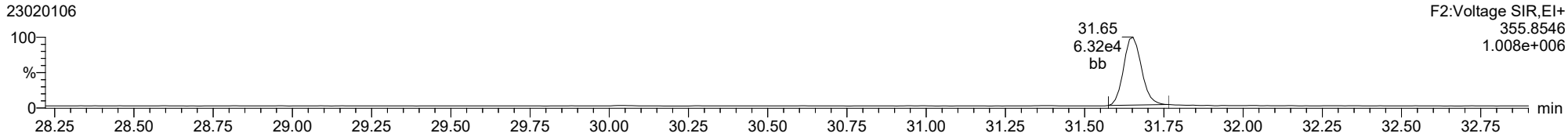
12378-PeCDD



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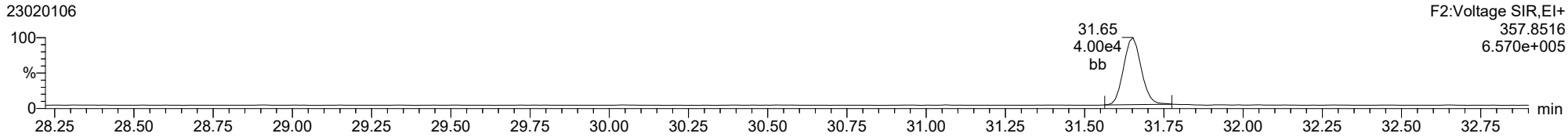

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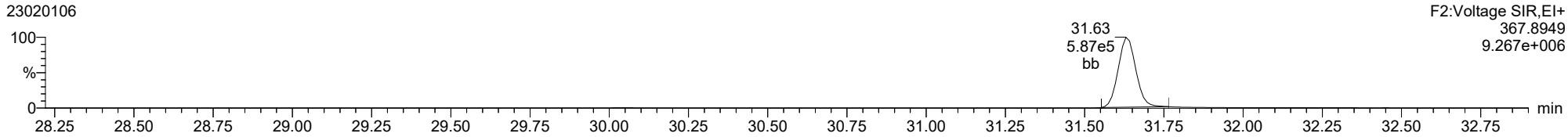

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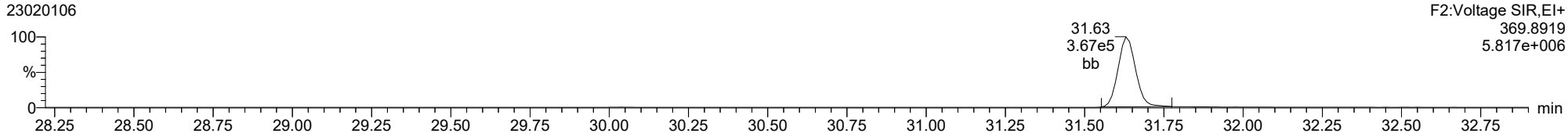

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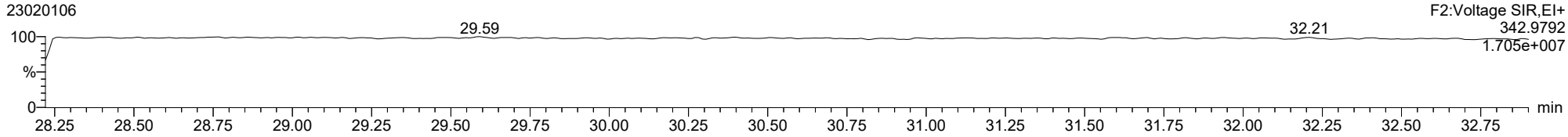

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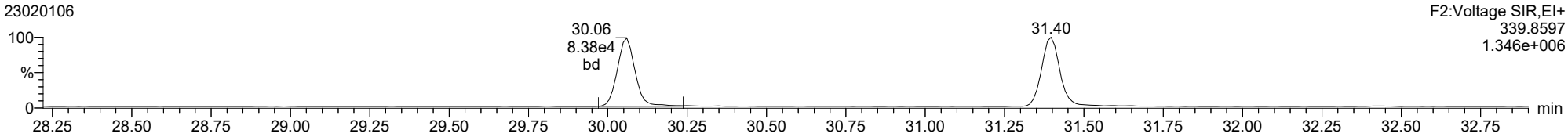

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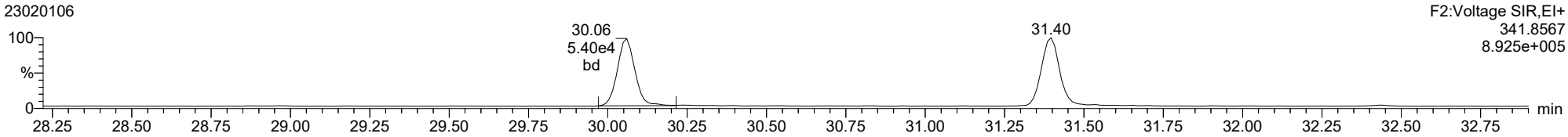

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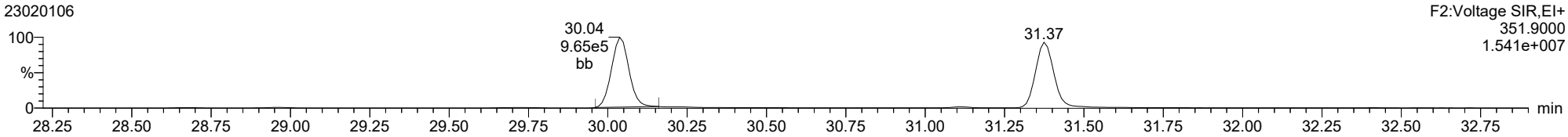

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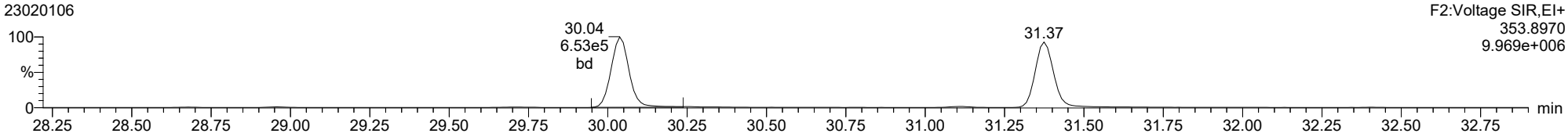

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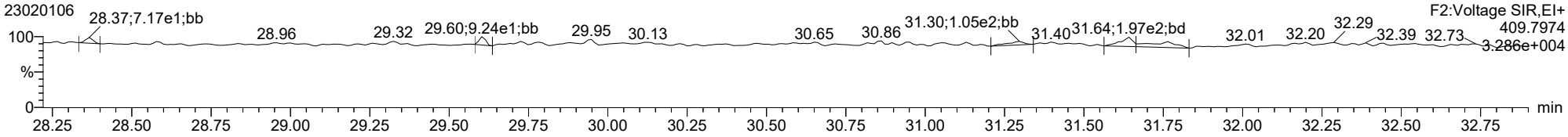

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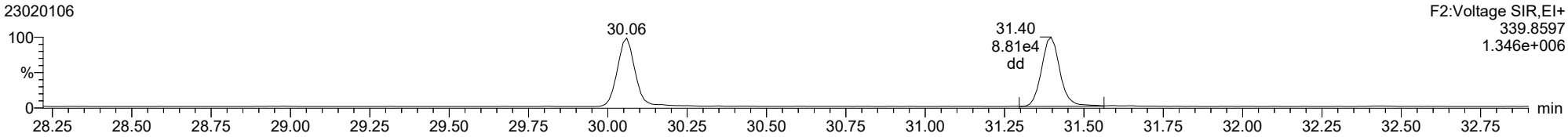

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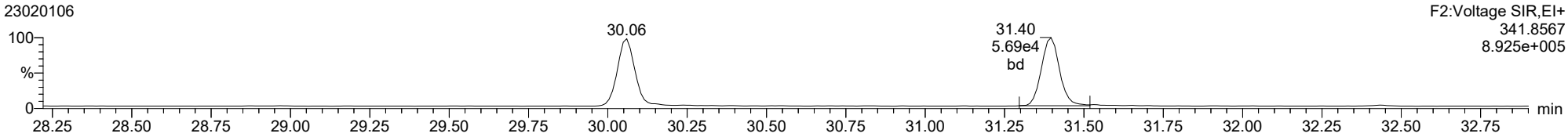

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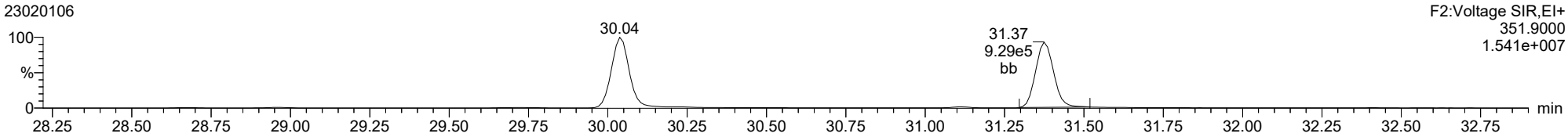

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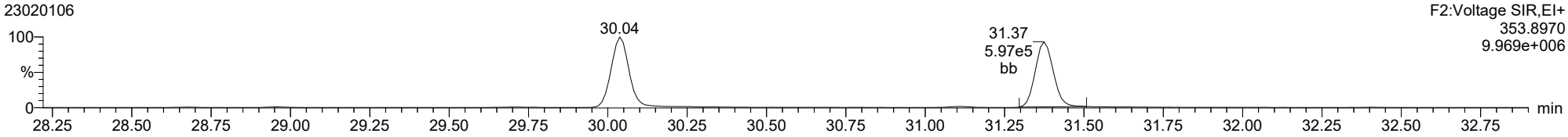

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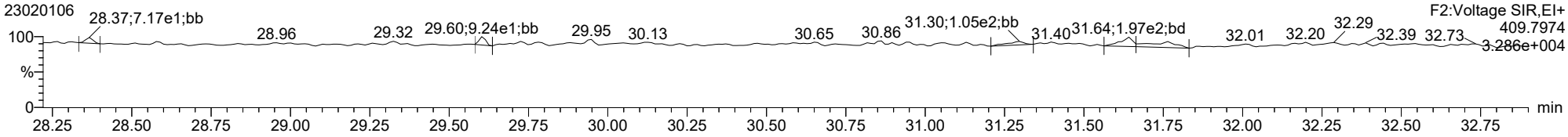

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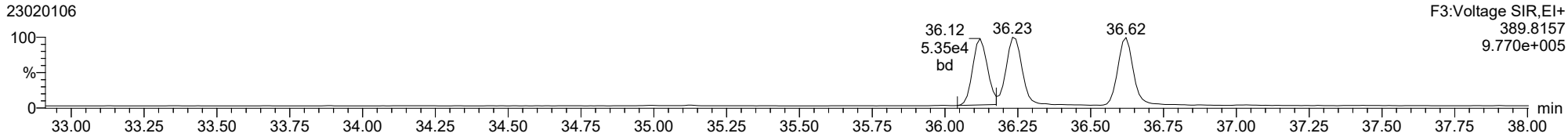

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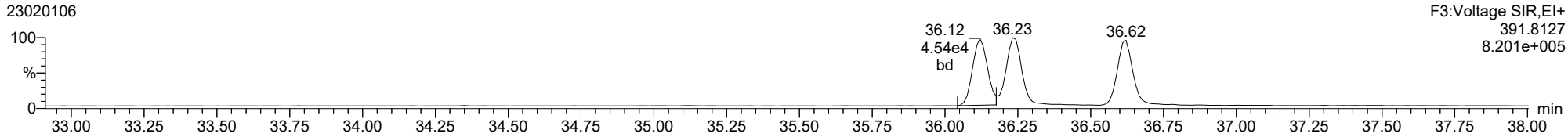

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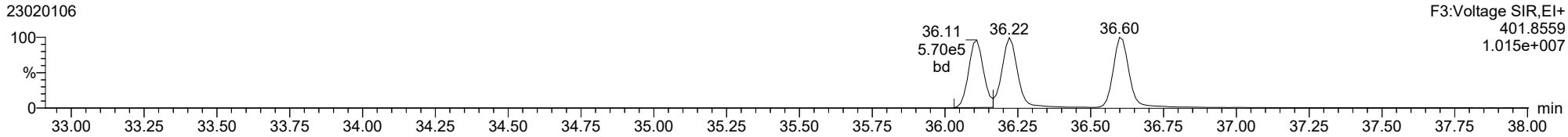

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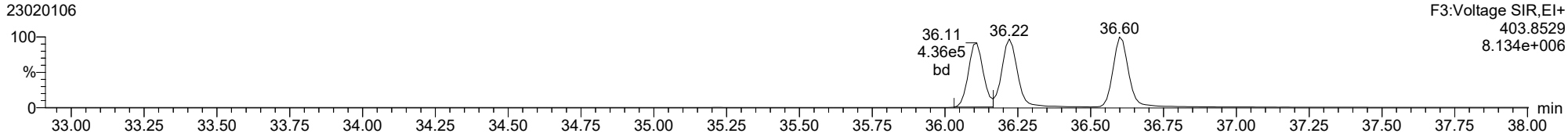

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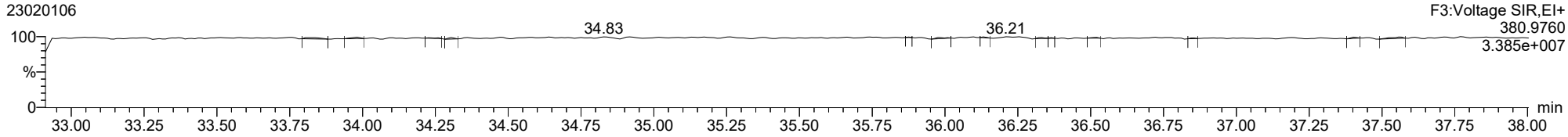

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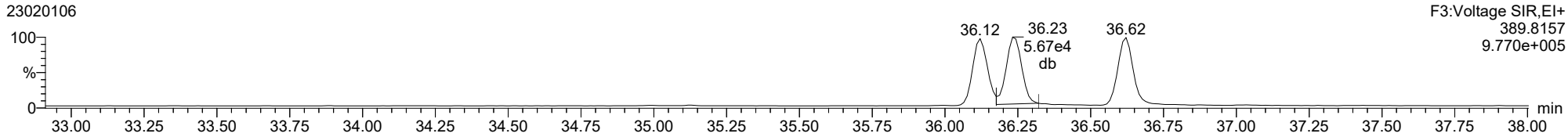

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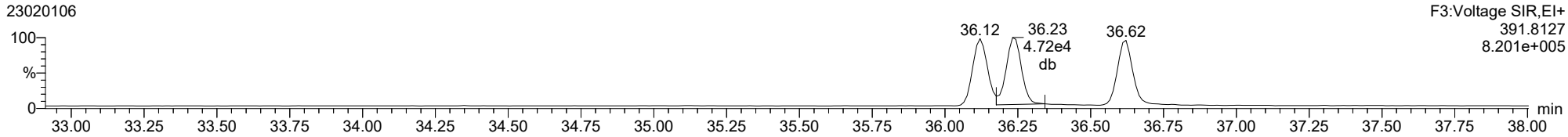

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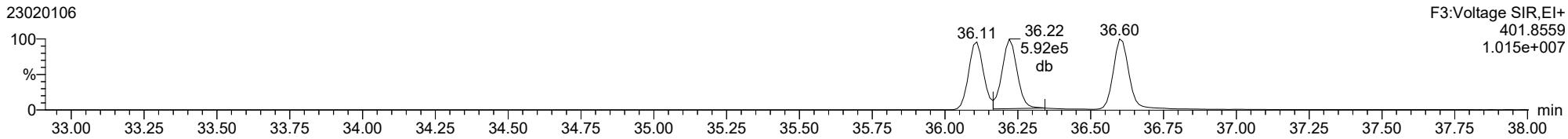

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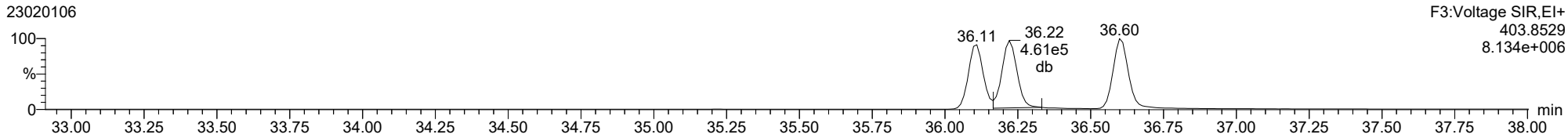

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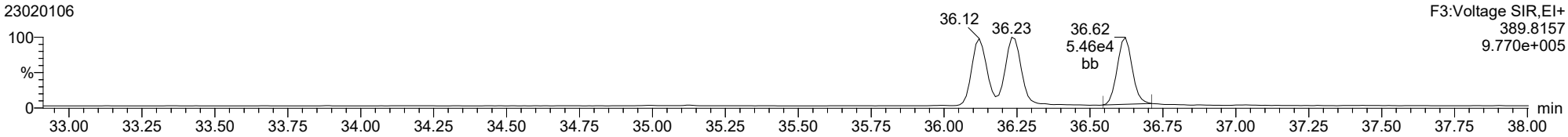

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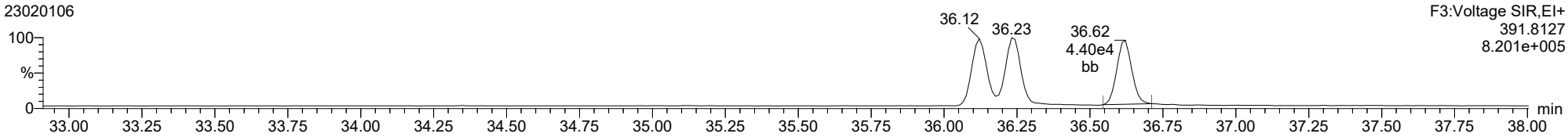

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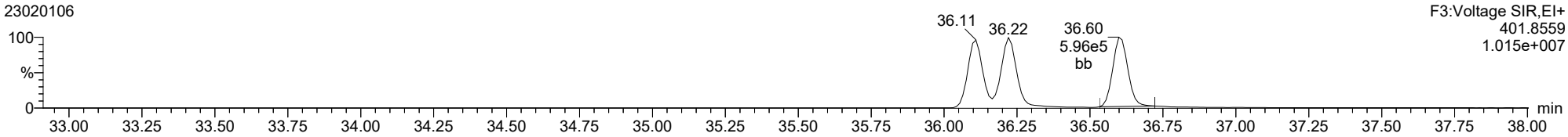

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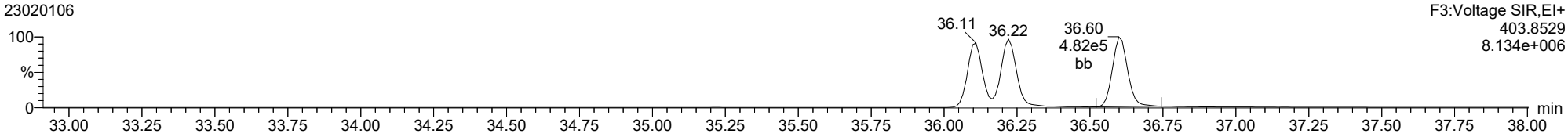

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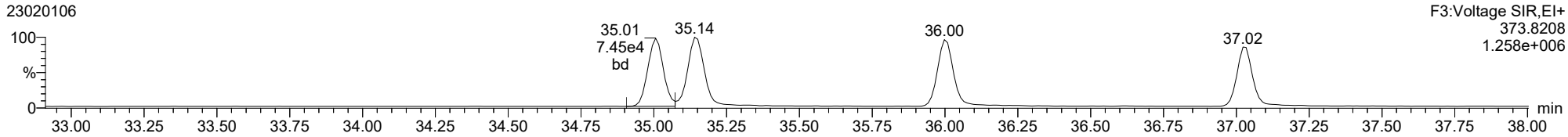

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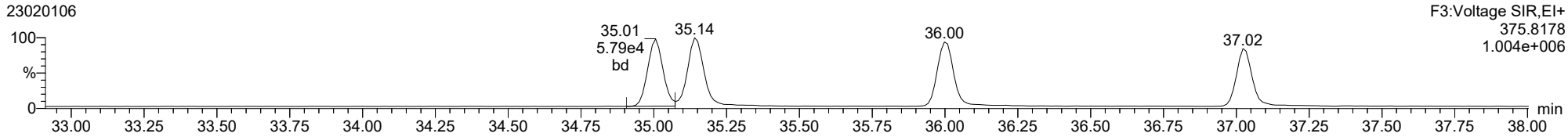

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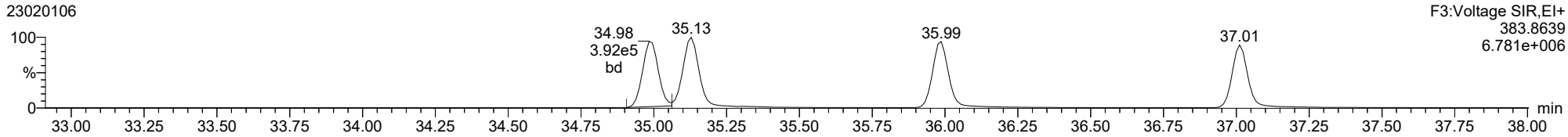

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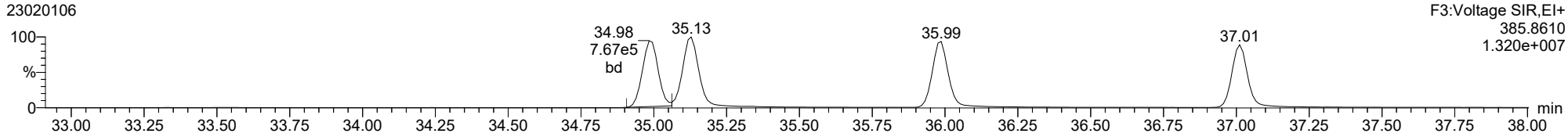
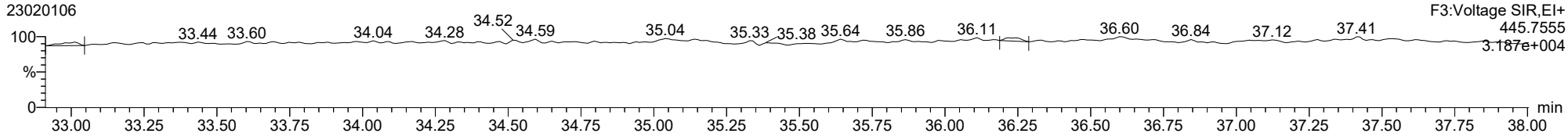


FUNCTION3 OCDPE



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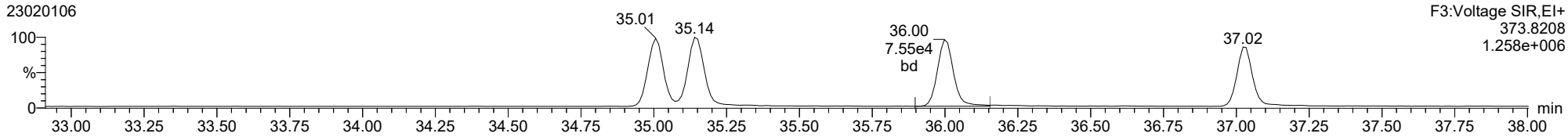

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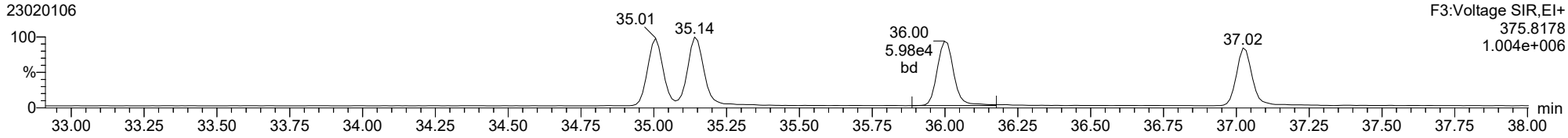

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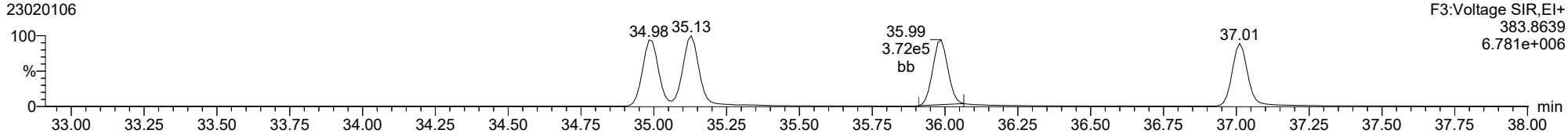

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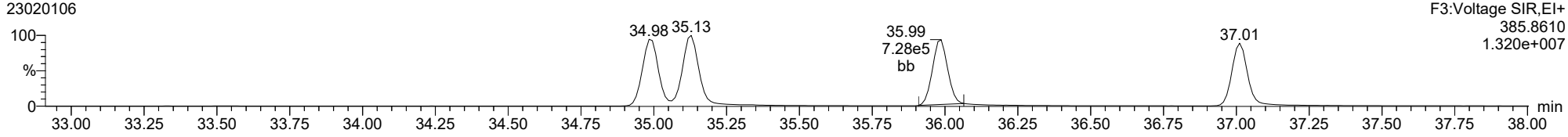

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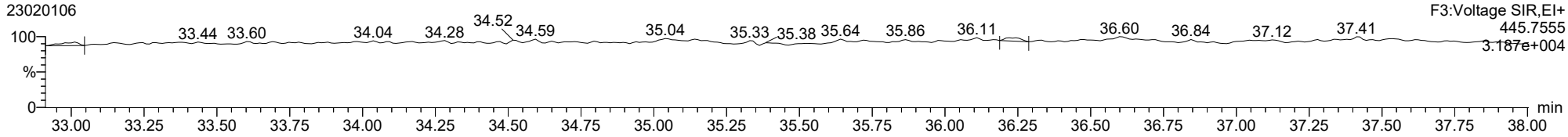

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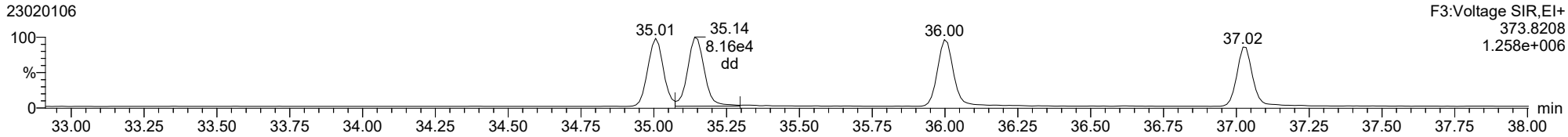

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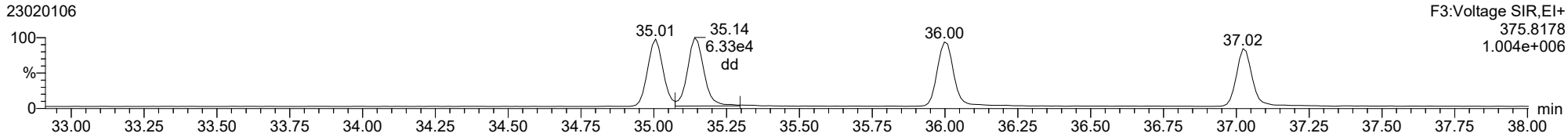

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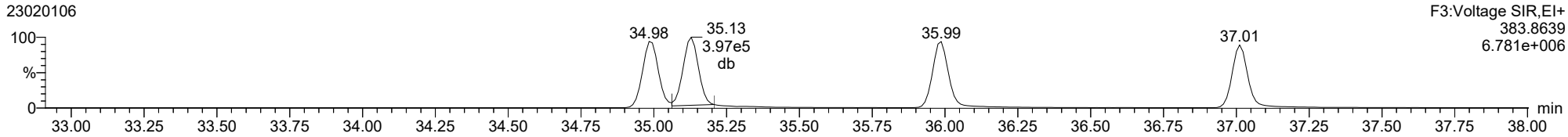

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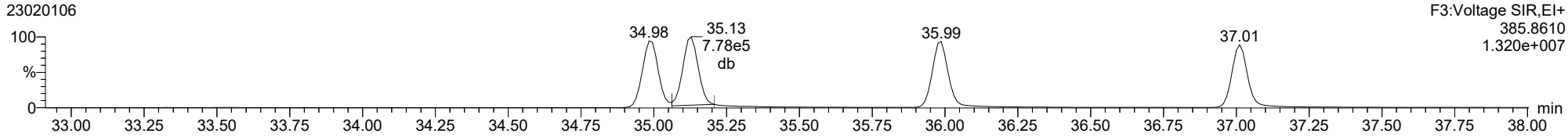

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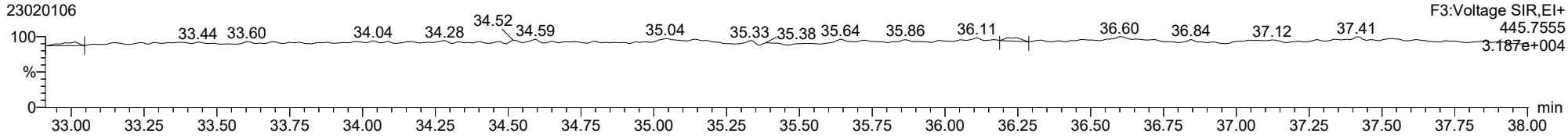

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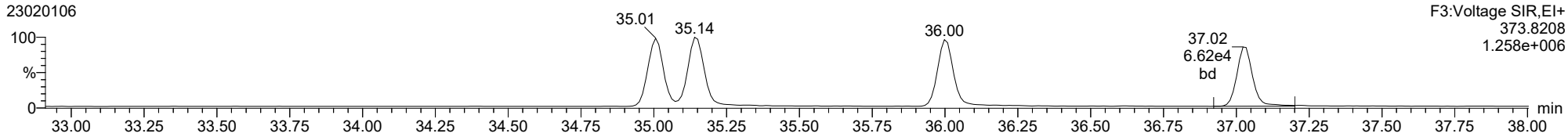

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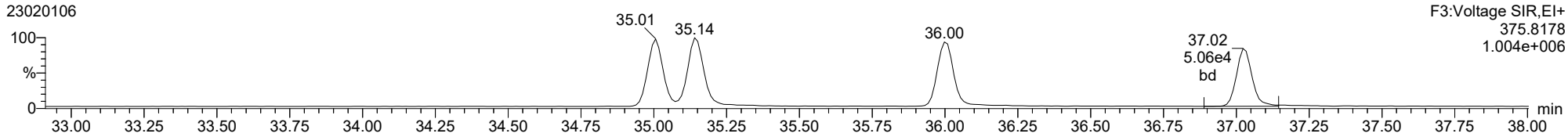

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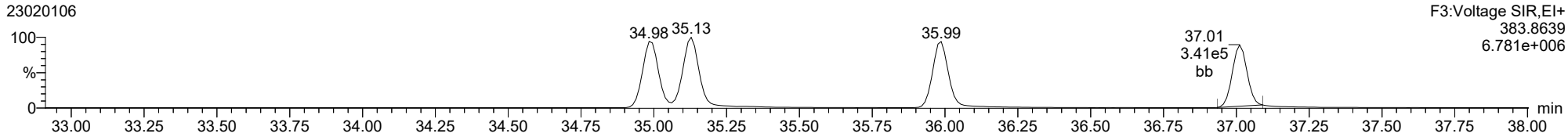

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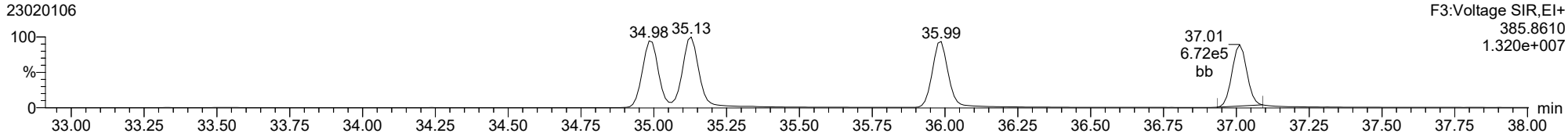

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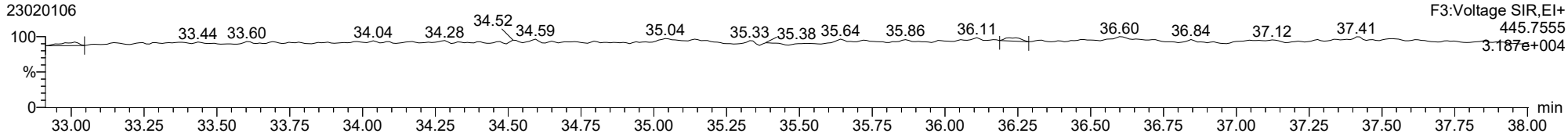

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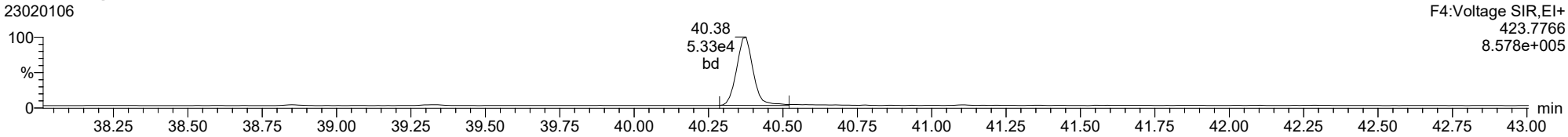

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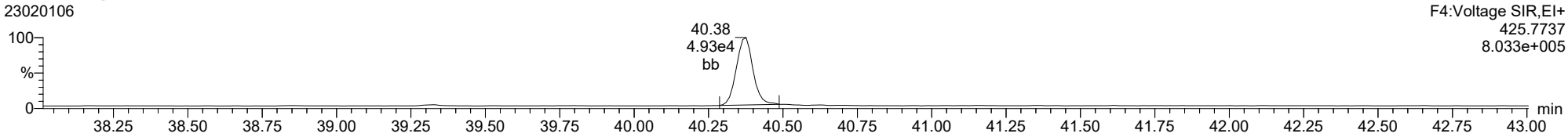

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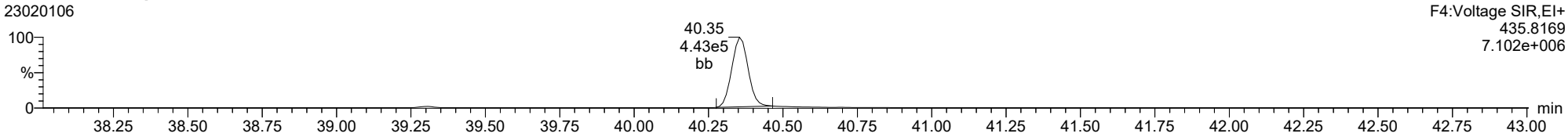

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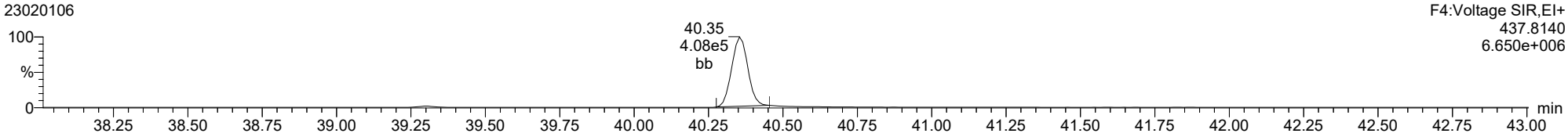

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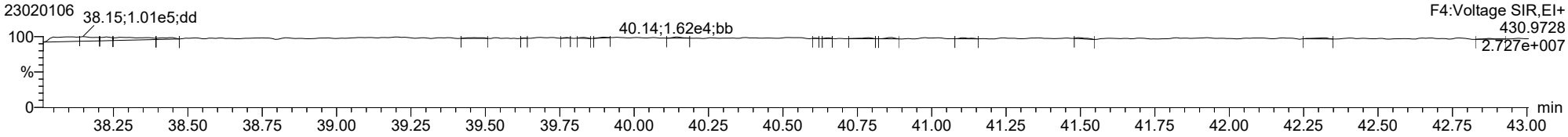

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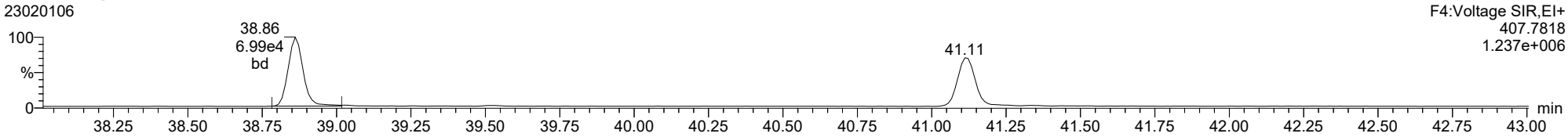

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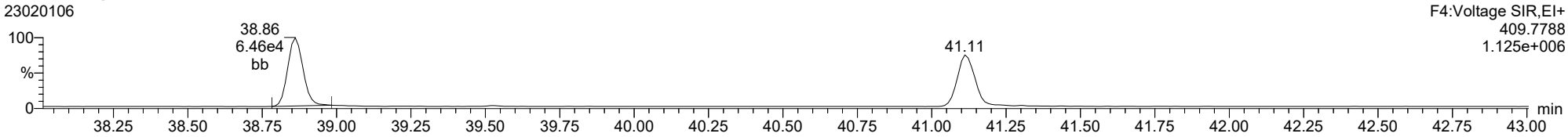

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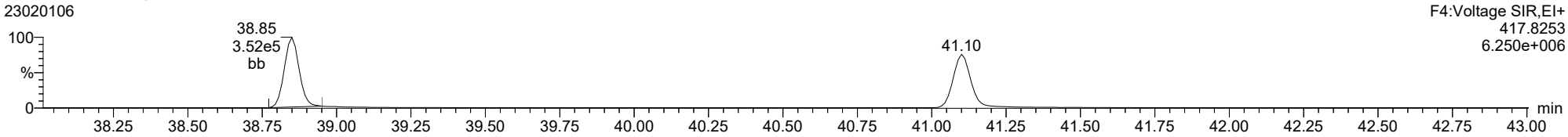

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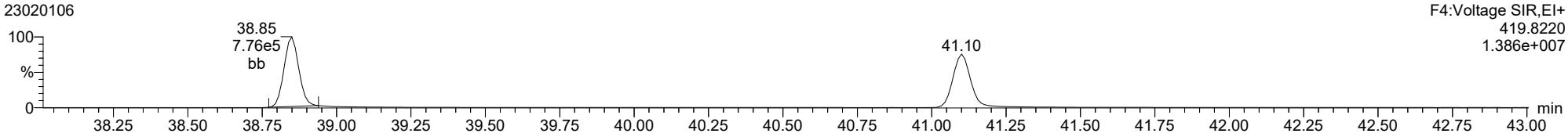

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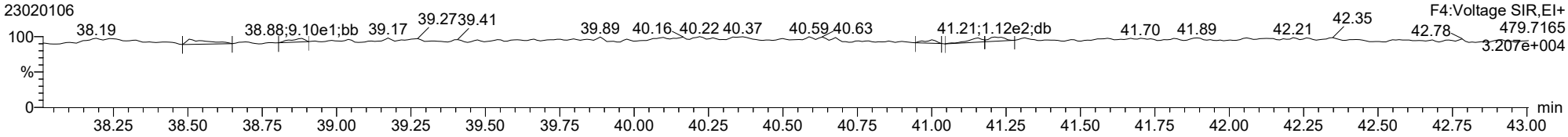

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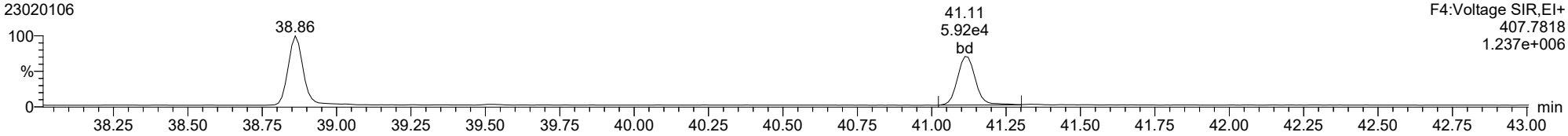

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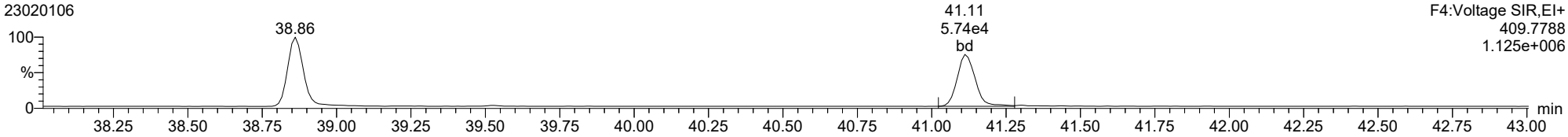

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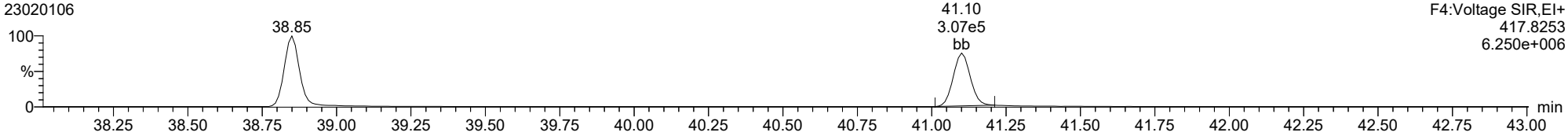

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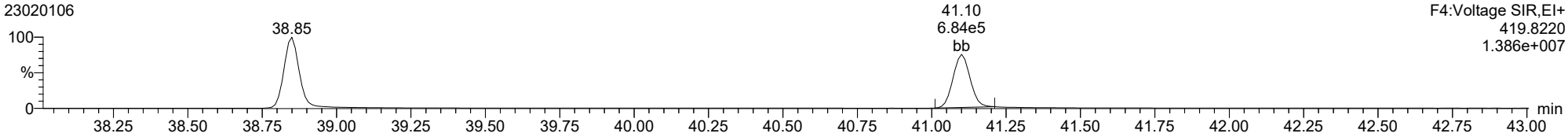

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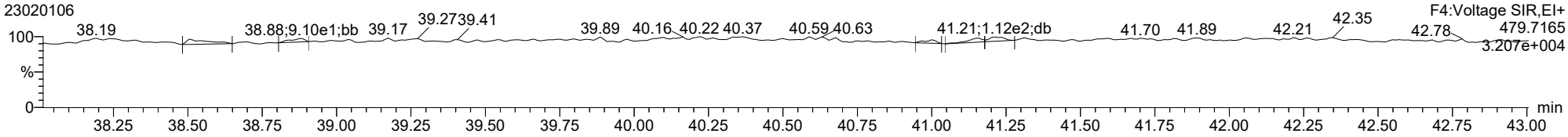

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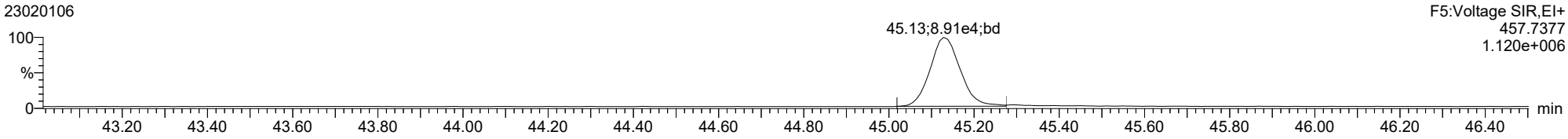

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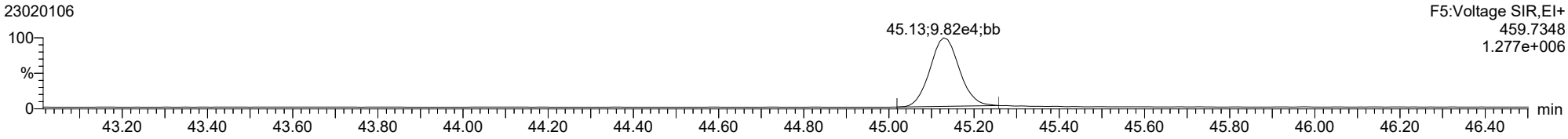

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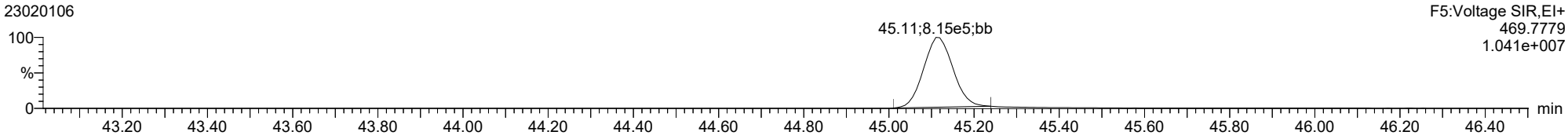

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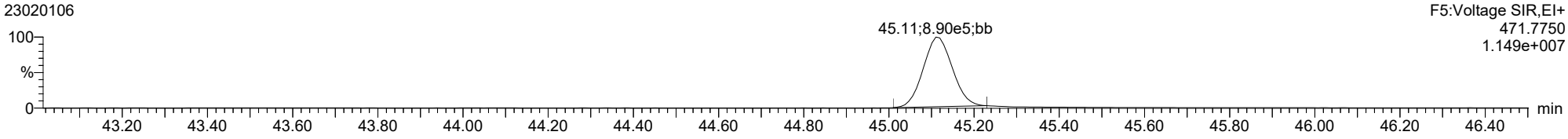
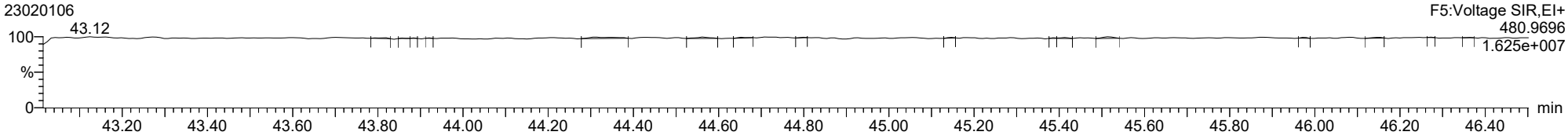


FUNCTION5 PFK



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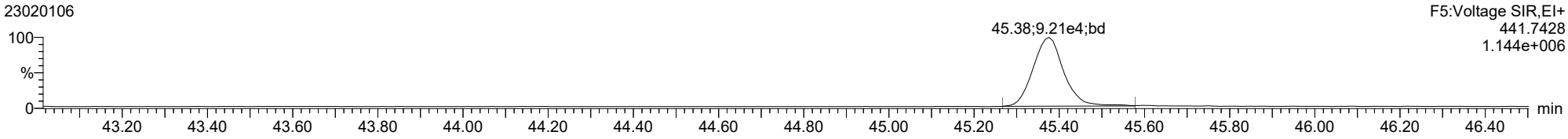

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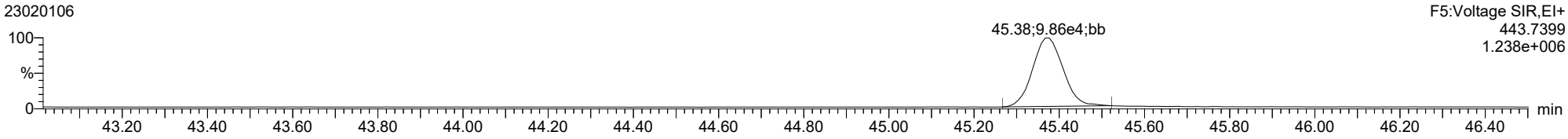

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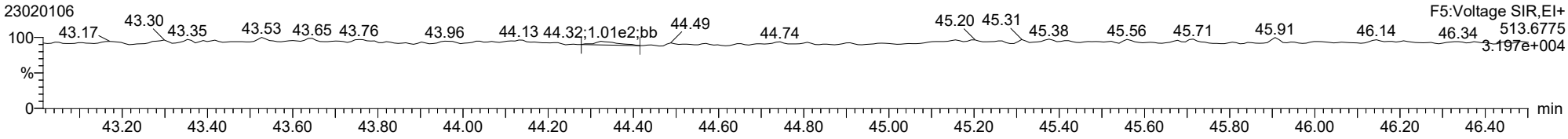

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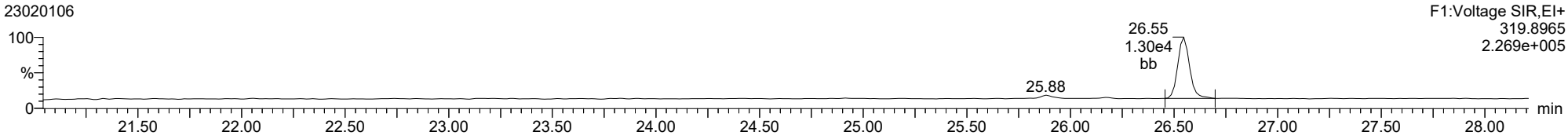
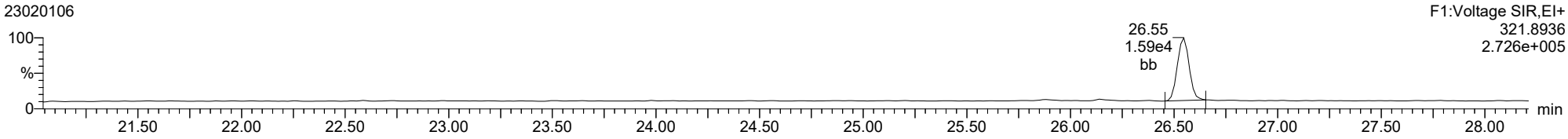
Total-tetradioxins



Total-tetradioxins



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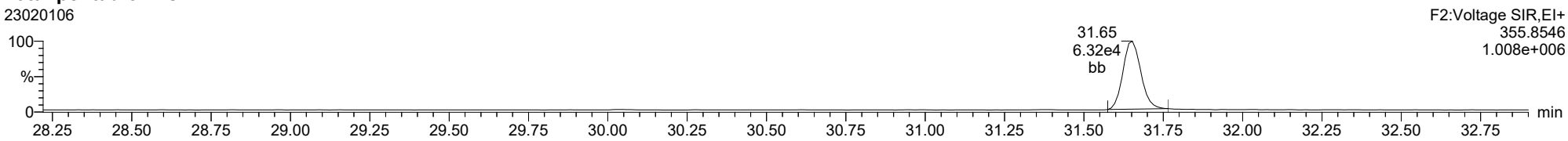

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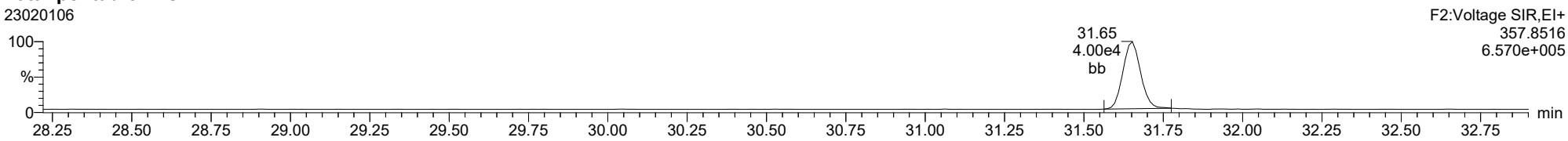

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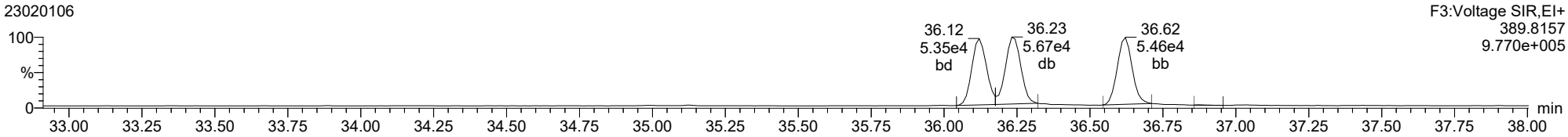
Total-hexadioxins



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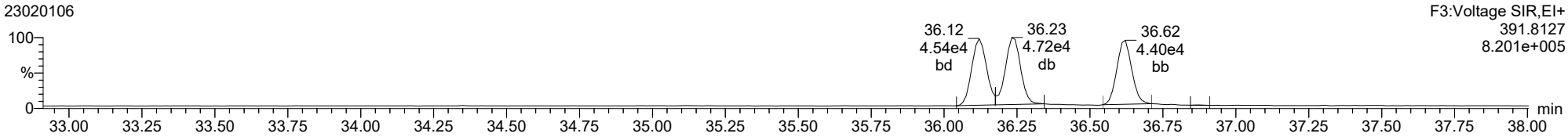

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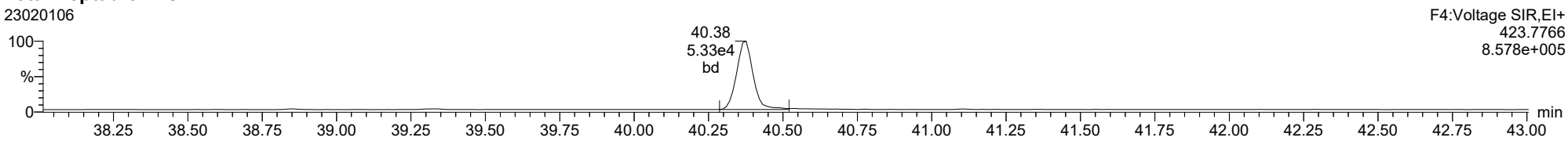

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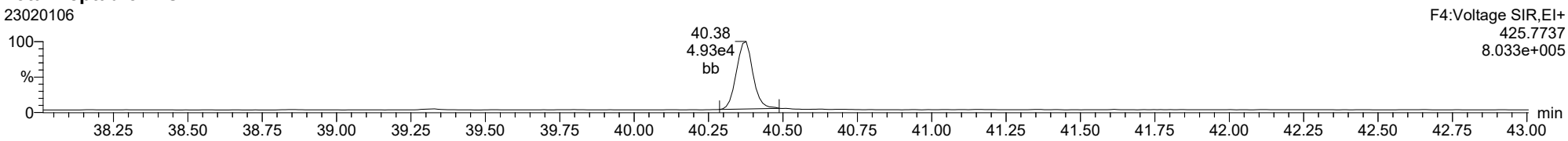

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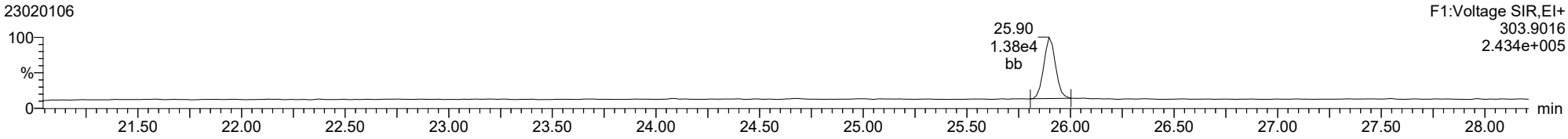
Printed: Friday, February 03, 2023 10:37:25 Pacific Standard Time

ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



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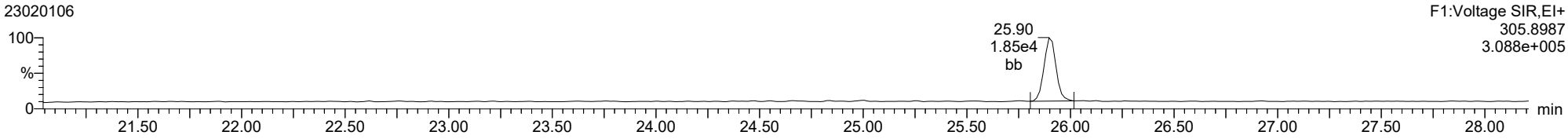

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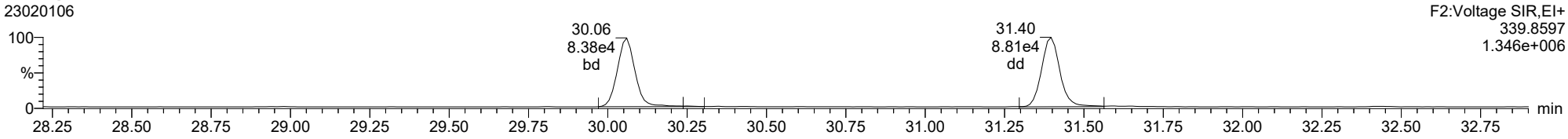

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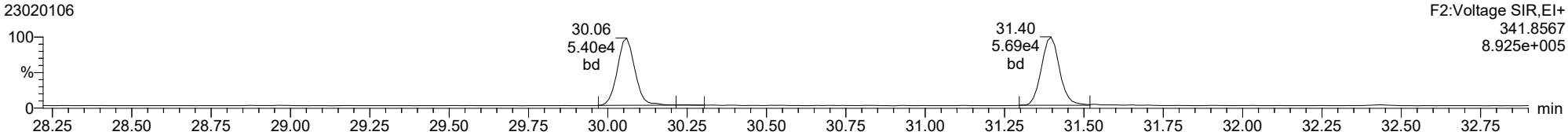

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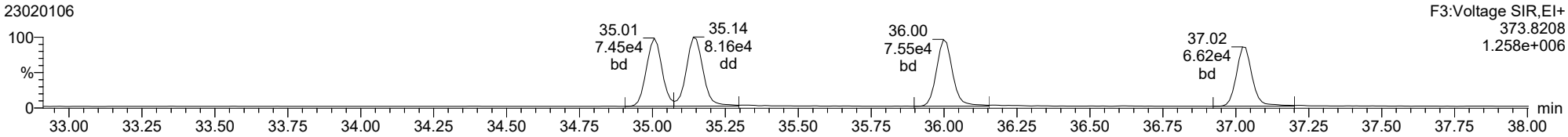
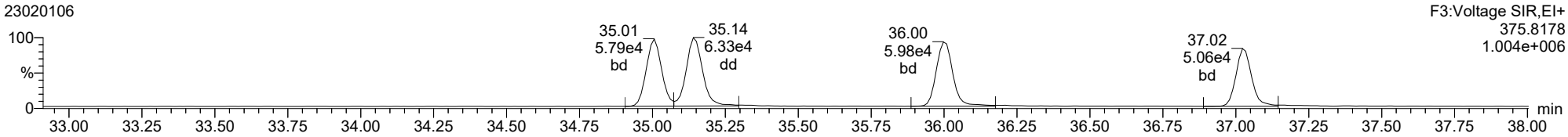
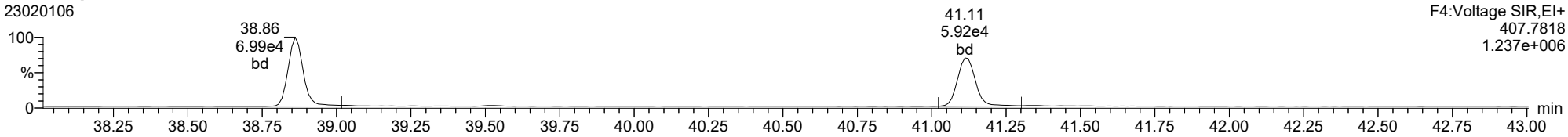
Total-hexafurans



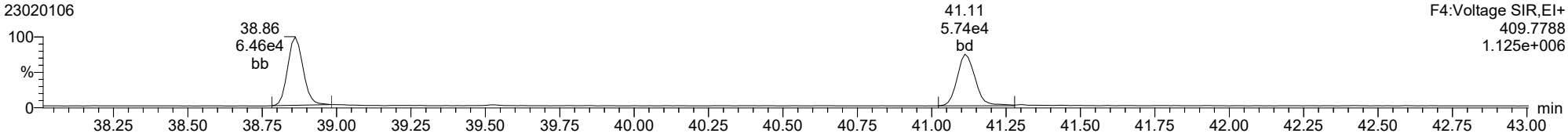
Total-hexafurans



Total-heptafurans



Total-heptafurans



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Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:37:38 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: 03 Feb 2023 10:33:40

ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	6.453e4	8.749e4	0.876	0.738	0.770	1099	2026	9.86e5	1.33e6	897.2	656.5	NO	bb	bb	10.343
12378-PeCDF	30.048	1.001	3.683e5	2.382e5	0.845	1.546	1.550	3190	2595	5.70e6	3.69e6	1785.6	1421.3	NO	bb	bb	49.054
23478-PeCDF	31.385	1.001	3.878e5	2.552e5	0.911	1.520	1.550	3190	2595	5.98e6	3.95e6	1875.0	1521.7	NO	bb	bb	49.735
123478-HxCDF	34.995	1.001	3.439e5	2.707e5	1.182	1.271	1.240	3530	2719	5.57e6	4.47e6	1578.6	1645.2	NO	bd	bd	49.384
234678-HxCDF	35.987	1.000	3.473e5	2.734e5	1.229	1.270	1.240	3530	2719	5.49e6	4.36e6	1554.3	1603.8	NO	bd	bd	50.511
123678-HxCDF	35.129	1.000	3.705e5	2.941e5	1.248	1.260	1.240	3530	2719	5.50e6	4.37e6	1557.7	1606.9	NO	db	db	49.292
123789-HxCDF	37.012	1.000	3.044e5	2.379e5	1.187	1.279	1.240	3530	2719	4.78e6	3.76e6	1354.6	1383.4	NO	bb	bd	49.842
1234678-HpCDF	38.850	1.000	2.941e5	2.898e5	1.204	1.015	1.050	2499	2461	4.94e6	4.87e6	1976.6	1980.3	NO	bb	bb	47.249
1234789-HpCDF	41.100	1.000	2.575e5	2.639e5	1.165	0.976	1.050	2499	2461	3.86e6	3.76e6	1546.5	1528.6	NO	bb	bb	48.293
OCDF	45.357	1.006	3.904e5	4.394e5	1.186	0.889	0.890	2361	1464	4.77e6	5.34e6	2021.3	3646.6	NO	bb	bb	88.323
2378-TCDD	26.532	1.001	5.783e4	7.140e4	1.236	0.810	0.770	1261	1356	8.71e5	1.09e6	690.6	804.6	NO	bb	bb	9.200
12378-PeCDD	31.642	1.001	2.871e5	1.811e5	1.087	1.585	1.550	1935	1700	4.52e6	2.88e6	2335.1	1692.4	NO	bb	bb	49.835
123478-HxCDD	36.109	1.000	2.492e5	2.039e5	0.987	1.222	1.240	2775	1957	4.32e6	3.49e6	1555.2	1781.3	NO	bd	bd	49.339
123678-HxCDD	36.221	1.000	2.605e5	2.153e5	1.021	1.210	1.240	2775	1957	4.30e6	3.56e6	1550.9	1817.2	NO	db	db	49.052
123789-HxCDD	36.611	1.011	2.521e5	2.108e5	0.985	1.196	1.240	2775	1957	4.16e6	3.46e6	1500.2	1770.2	NO	bb	bb	49.951
1234678-HpCDD	40.354	1.000	2.309e5	2.219e5	1.253	1.041	1.050	2551	2394	3.57e6	3.40e6	1399.4	1422.4	NO	bb	bb	46.332
OCDD	45.119	1.000	3.877e5	4.205e5	1.103	0.922	0.890	2154	2574	4.65e6	5.24e6	2156.8	2035.9	NO	bd	bb	92.549
13C-2378-TCDF	25.867	1.007	7.414e5	9.363e5	1.768	0.792	0.770	2053	1619	1.15e7	1.43e7	5585.3	8856.7	NO	bb	bb	94.656
13C-12378-PeCDF	30.026	1.168	8.877e5	5.760e5	1.527	1.541	1.550	2967	1853	1.38e7	8.94e6	4662.3	4827.2	NO	bb	bb	95.615
13C-23478-PeCDF	31.363	1.220	8.562e5	5.626e5	1.466	1.522	1.550	2967	1853	1.33e7	8.64e6	4491.7	4663.8	NO	bb	bb	96.525
13C-123478-HxCDF	34.973	0.956	3.562e5	6.970e5	1.054	0.511	0.510	1992	2758	5.88e6	1.16e7	2952.0	4191.7	NO	bd	bd	100.726
13C-123678-HxCDF	35.118	0.960	3.647e5	7.156e5	1.080	0.510	0.510	1992	2758	5.88e6	1.14e7	2953.9	4143.1	NO	db	db	100.801
13C-234678-HxCDF	35.975	0.983	3.384e5	6.615e5	1.014	0.512	0.510	1992	2758	5.68e6	1.10e7	2849.9	4002.3	NO	bb	bb	99.342
13C-123789-HxCDF	37.000	1.011	3.154e5	6.016e5	0.928	0.524	0.510	1992	2758	5.40e6	1.05e7	2709.2	3801.7	NO	bb	bb	99.581
13C-1234678-HpCDF	38.839	1.061	3.227e5	7.036e5	1.036	0.459	0.440	2621	3052	5.41e6	1.21e7	2065.5	3959.7	NO	bb	bb	99.821
13C-1234789-HpCDF	41.089	1.123	2.972e5	6.294e5	0.905	0.472	0.440	2621	3052	4.32e6	9.59e6	1649.5	3143.4	NO	bd	bb	103.177
13C-1234-TCDD	25.700	0.000	4.469e5	5.555e5	1.000	0.804	0.770	2398	1542	7.04e6	8.78e6	2935.5	5692.9	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	4.991e5	6.371e5	1.103	0.783	0.770	2398	1542	7.48e6	9.58e6	3119.3	6212.6	NO	bb	bb	102.763
13C-12378-PeCDD	31.619	1.230	5.354e5	3.292e5	0.914	1.626	1.550	1302	1293	8.28e6	5.07e6	6359.2	3923.9	NO	bb	bb	94.346
13C-123478-HxCDD	36.098	0.987	5.251e5	4.053e5	0.933	1.296	1.240	1973	3288	8.80e6	6.71e6	4459.6	2041.7	NO	bd	bd	100.495
13C-123678-HxCDD	36.209	0.990	5.354e5	4.149e5	0.965	1.291	1.240	1973	3288	8.89e6	6.90e6	4507.2	2100.1	NO	db	db	99.280
13C-1234678-HpCDD	40.343	1.103	4.018e5	3.784e5	0.782	1.062	1.050	1997	2297	6.40e6	6.01e6	3207.1	2617.9	NO	bb	bb	100.543
13C-OCDD	45.101	1.233	7.578e5	8.262e5	0.788	0.917	0.890	2644	3522	9.52e6	1.02e7	3599.3	2906.4	NO	bb	bb	202.502
13C-123789-HxCDD	36.588	0.000	5.534e5	4.389e5	1.000	1.261	1.240	1973	3288	9.19e6	7.27e6	4657.5	2210.2	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	1.115e5		1.233			1579		1.70e6		1075.4			bb		9.021

Dataset: T:\Autospec\Processed Data Batch\230201ICIH.qld
Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:37:38 Pacific Standard Time

ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.389	0.866	7.831e4	1.003e5	1.064	0.781	0.770	1099	2026	1.24e6	1.58e6	1124.6	780.3	NO	bb	bb	10.000
1289-TCDF	27.378	1.058	6.314e4	8.075e4	0.858	0.782	0.770	1099	2026	9.07e5	1.18e6	825.1	582.8	NO	db	db	10.000
13468-PECDF	27.243	0.907	4.504e5	2.910e5	1.013	1.548	1.550	1001	928	7.08e6	4.58e6	7076.3	4935.5	NO	bb	bb	50.000
12389-PECDF	32.422	1.080	3.693e5	2.481e5	0.844	1.488	1.550	3190	2595	5.63e6	3.73e6	1765.9	1435.6	NO	bb	bb	50.000
123468-HXCDF	33.335	0.953	3.538e5	2.768e5	1.197	1.278	1.240	3530	2719	5.41e6	4.18e6	1531.9	1537.1	NO	bb	bd	50.000
1368-TCDD	23.659	0.892	5.365e4	6.956e4	1.084	0.771	0.770	1261	1356	8.58e5	1.11e6	680.3	820.3	NO	bb	bb	10.000
1289-TCDD	27.122	1.023	4.896e4	6.184e4	0.975	0.792	0.770	1261	1356	7.39e5	9.25e5	586.4	682.2	NO	bb	bb	10.000
12479-PECDD	28.912	0.914	4.860e5	3.082e5	1.837	1.577	1.550	1935	1700	4.68e6	2.92e6	2418.8	1714.3	NO	bb	bb	50.000
12389-PECDD	32.032	1.013	3.312e5	2.102e5	1.252	1.576	1.550	1935	1700	5.26e6	3.30e6	2720.3	1940.3	NO	bb	bb	50.000
124679-HXCDD	34.104	0.945	2.650e5	2.155e5	1.033	1.230	1.240	2775	1957	4.22e6	3.42e6	1521.7	1748.3	NO	bb	bb	50.000
1234679-HPCDD	39.307	0.974	2.579e5	2.438e5	1.286	1.058	1.050	2551	2394	4.26e6	3.98e6	1669.1	1662.1	NO	bb	bb	50.000
Total-tetrafurans			2.076e5		0.933			1099		3.16e6							30.586
Total-penta1			4.504e5					1001		7.08e6							50.000
Total-pentafurans			1.187e6		0.866			3190		1.83e7							156.881
Total-hexafurans			1.720e6		1.208			3530		2.67e7							249.030
Total-heptafurans			5.536e5		1.185			2499		8.83e6							95.864
Total-Furans			4.509e6		1.067			1099		6.89e7							670.685
Total-tetradioxins			2.732e5		1.099			1261		3.78e6							49.490
Total-pentadioxins			1.106e6		1.392			1935		1.45e7							150.052
Total-hexadioxins			1.027e6		1.007			2775		1.70e7							198.343
Total-heptadioxins			4.888e5		1.269			2551		7.83e6							96.332
Total-Dioxins			3.282e6		1.165			1261		4.77e7							586.766
Total-TEQ			7.791e6					1261		1.17e8							1257.451
FUNCTION1 PFK			2.071e7					567379		2.38e8							
FUNCTION2 PFK			0.000e0					180306		0.00e0							
FUNCTION3 PFK			2.786e4					420708		9.12e5							0.000
FUNCTION4 PFK			7.534e5					257681		1.24e7							
FUNCTION5 PFK			1.239e5					175535		5.02e6							
FUNCTION1 HXCD...			1.237e3					791		2.01e4							0.000
FUNCTION1 HPCD...			1.368e3					947		2.24e4							0.000
FUNCTION2 HPCD...			4.817e2					887		9.10e3							0.000
FUNCTION3 OCDPE			4.485e2					809		9.17e3							0.000
FUNCTION4 NCDPE			3.809e2					922		7.31e3							0.000
FUNCTION5 DCDPE			0.000e0					753		0.00e0							

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: 03 Feb 2023 10:33:40

ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.314e4	8.075e4	0.858	0.78	0.77	825.1	YES	NO	db	db	10.000
2	Total-tetrafurans	27.24	1.177e3	1.490e3	0.933	0.79	0.77	17.2	YES	NO	bd	bd	0.170
3	2378-TCDF	25.88	6.453e4	8.749e4	0.876	0.74	0.77	897.2	YES	NO	bb	bb	10.343
4	Total-tetrafurans	24.81	4.913e2	6.353e2	0.933	0.77	0.77	7.1	YES	NO	dd	db	0.072
5	1368-TCDF	22.39	7.831e4	1.003e5	1.064	0.78	0.77	1124.6	YES	NO	bb	bb	10.000

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.24	4.504e5	2.910e5	1.013	1.55	1.55	7076.3	YES	NO	bb	bb	50.000

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.42	3.693e5	2.481e5	0.844	1.49	1.55	1765.9	YES	NO	bb	bb	50.000
2	23478-PeCDF	31.39	3.878e5	2.552e5	0.911	1.52	1.55	1875.0	YES	NO	bb	bb	49.735
3	12378-PeCDF	30.05	3.683e5	2.382e5	0.845	1.55	1.55	1785.6	YES	NO	bb	bb	49.054
4	Total-pentafurans	28.90	6.175e4	3.932e4	0.866	1.57	1.55	301.5	YES	NO	bb	bb	8.093

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.13	3.705e5	2.941e5	1.248	1.26	1.24	1557.7	YES	NO	db	db	49.292
2	123478-HxCDF	34.99	3.439e5	2.707e5	1.182	1.27	1.24	1578.6	YES	NO	bd	bd	49.384
3	123468-HXCDF	33.34	3.538e5	2.768e5	1.197	1.28	1.24	1531.9	YES	NO	bb	bd	50.000
4	123789-HxCDF	37.01	3.044e5	2.379e5	1.187	1.28	1.24	1354.6	YES	NO	bb	bd	49.842
5	234678-HxCDF	35.99	3.473e5	2.734e5	1.229	1.27	1.24	1554.3	YES	NO	bd	bd	50.511

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	2.575e5	2.639e5	1.165	0.98	1.05	1546.5	YES	NO	bb	bb	48.293
2	Total-heptafurans	39.51	1.970e3	1.765e3	1.185	1.12	1.05	11.2	YES	NO	bb	bb	0.323
3	1234678-HpCDF	38.85	2.941e5	2.898e5	1.204	1.01	1.05	1976.6	YES	NO	bb	bb	47.249

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.314e4	8.075e4	0.858	0.78	0.77	825.1	YES	NO	db	db	10.000
2	Total-tetrafurans	27.24	1.177e3	1.490e3	0.933	0.79	0.77	17.2	YES	NO	bd	bd	0.170
3	2378-TCDF	25.88	6.453e4	8.749e4	0.876	0.74	0.77	897.2	YES	NO	bb	bb	10.343
4	Total-tetrafurans	24.81	4.913e2	6.353e2	0.933	0.77	0.77	7.1	YES	NO	dd	db	0.072
5	1368-TCDF	22.39	7.831e4	1.003e5	1.064	0.78	0.77	1124.6	YES	NO	bb	bb	10.000
6	12389-PECDF	32.42	3.693e5	2.481e5	0.844	1.49	1.55	1765.9	YES	NO	bb	bb	50.000
7	23478-PeCDF	31.39	3.878e5	2.552e5	0.911	1.52	1.55	1875.0	YES	NO	bb	bb	49.735
8	12378-PeCDF	30.05	3.683e5	2.382e5	0.845	1.55	1.55	1785.6	YES	NO	bb	bb	49.054
9	Total-pentafurans	28.90	6.175e4	3.932e4	0.866	1.57	1.55	301.5	YES	NO	bb	bb	8.093
10	123678-HxCDF	35.13	3.705e5	2.941e5	1.248	1.26	1.24	1557.7	YES	NO	db	db	49.292
11	123478-HxCDF	34.99	3.439e5	2.707e5	1.182	1.27	1.24	1578.6	YES	NO	bd	bd	49.384
12	123468-HXCDF	33.34	3.538e5	2.768e5	1.197	1.28	1.24	1531.9	YES	NO	bb	bd	50.000
13	123789-HxCDF	37.01	3.044e5	2.379e5	1.187	1.28	1.24	1354.6	YES	NO	bb	bd	49.842
14	234678-HxCDF	35.99	3.473e5	2.734e5	1.229	1.27	1.24	1554.3	YES	NO	bd	bd	50.511
15	1234789-HpCDF	41.10	2.575e5	2.639e5	1.165	0.98	1.05	1546.5	YES	NO	bb	bb	48.293
16	Total-heptafurans	39.51	1.970e3	1.765e3	1.185	1.12	1.05	11.2	YES	NO	bb	bb	0.323
17	1234678-HpCDF	38.85	2.941e5	2.898e5	1.204	1.01	1.05	1976.6	YES	NO	bb	bb	47.249
18	OCDF	45.36	3.904e5	4.394e5	1.186	0.89	0.89	2021.3	YES	NO	bb	bb	88.323
19	13468-PECDF	27.24	4.504e5	2.910e5	1.013	1.55	1.55	7076.3	YES	NO	bb	bb	50.000

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.12	4.896e4	6.184e4	0.975	0.79	0.77	586.4	YES	NO	bb	bb	10.000
2	2378-TCDD	26.53	5.783e4	7.140e4	1.236	0.81	0.77	690.6	YES	NO	bb	bb	9.200
3	Total-tetradioxins	26.20	8.471e4	1.070e5	1.099	0.79	0.77	703.2	YES	NO	bb	bb	15.362
4	Total-tetradioxins	25.72	2.731e4	3.262e4	1.099	0.84	0.77	331.8	YES	NO	bd	bb	4.800
5	Total-tetradioxins	25.14	7.197e2	8.821e2	1.099	0.82	0.77	7.0	YES	NO	bb	bb	0.128
6	1368-TCDD	23.66	5.365e4	6.956e4	1.084	0.77	0.77	680.3	YES	NO	bb	bb	10.000

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PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.03	3.312e5	2.102e5	1.252	1.58	1.55	2720.3	YES	NO	bb	bb	50.000
2	12378-PeCDD	31.64	2.871e5	1.811e5	1.087	1.59	1.55	2335.1	YES	NO	bb	bb	49.835
3	Total-pentadioxins	30.97	1.319e3	9.625e2	1.392	1.37	1.55	9.7	YES	NO	bb	bb	0.190
4	Total-pentadioxins	29.24	2.122e2	1.231e2	1.392	1.72	1.55	2.9	NO	NO	bb	bb	0.028
5	12479-PECDD	28.91	4.860e5	3.082e5	1.837	1.58	1.55	2418.8	YES	NO	bb	bb	50.000

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	34.10	2.650e5	2.155e5	1.033	1.23	1.24	1521.7	YES	NO	bb	bb	50.000
2	123789-HxCDD	36.61	2.521e5	2.108e5	0.985	1.20	1.24	1500.2	YES	NO	bb	bb	49.951
3	123678-HxCDD	36.22	2.605e5	2.153e5	1.021	1.21	1.24	1550.9	YES	NO	db	db	49.052
4	123478-HxCDD	36.11	2.492e5	2.039e5	0.987	1.22	1.24	1555.2	YES	NO	bd	bd	49.339

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	2.309e5	2.219e5	1.253	1.04	1.05	1399.4	YES	NO	bb	bb	46.332
2	1234679-HPCDD	39.31	2.579e5	2.438e5	1.286	1.06	1.05	1669.1	YES	NO	bb	bb	50.000

Dataset: T:\Autospec\Processed Data Batch\230201ICIH.qld
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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.12	4.896e4	6.184e4	0.975	0.79	0.77	586.4	YES	NO	bb	bb	10.000
2	2378-TCDD	26.53	5.783e4	7.140e4	1.236	0.81	0.77	690.6	YES	NO	bb	bb	9.200
3	Total-tetradioxins	26.20	8.471e4	1.070e5	1.099	0.79	0.77	703.2	YES	NO	bb	bb	15.362
4	Total-tetradioxins	25.72	2.731e4	3.262e4	1.099	0.84	0.77	331.8	YES	NO	bd	bb	4.800
5	Total-tetradioxins	25.14	7.197e2	8.821e2	1.099	0.82	0.77	7.0	YES	NO	bb	bb	0.128
6	1368-TCDD	23.66	5.365e4	6.956e4	1.084	0.77	0.77	680.3	YES	NO	bb	bb	10.000
7	12389-PECDD	32.03	3.312e5	2.102e5	1.252	1.58	1.55	2720.3	YES	NO	bb	bb	50.000
8	12378-PeCDD	31.64	2.871e5	1.811e5	1.087	1.59	1.55	2335.1	YES	NO	bb	bb	49.835
9	Total-pentadioxins	30.97	1.319e3	9.625e2	1.392	1.37	1.55	9.7	YES	NO	bb	bb	0.190
10	Total-pentadioxins	29.24	2.122e2	1.231e2	1.392	1.72	1.55	2.9	NO	NO	bb	bb	0.028
11	12479-PECDD	28.91	4.860e5	3.082e5	1.837	1.58	1.55	2418.8	YES	NO	bb	bb	50.000
12	124679-HXCDD	34.10	2.650e5	2.155e5	1.033	1.23	1.24	1521.7	YES	NO	bb	bb	50.000
13	123789-HxCDD	36.61	2.521e5	2.108e5	0.985	1.20	1.24	1500.2	YES	NO	bb	bb	49.951
14	123678-HxCDD	36.22	2.605e5	2.153e5	1.021	1.21	1.24	1550.9	YES	NO	db	db	49.052
15	123478-HxCDD	36.11	2.492e5	2.039e5	0.987	1.22	1.24	1555.2	YES	NO	bd	bd	49.339
16	1234678-HpCDD	40.35	2.309e5	2.219e5	1.253	1.04	1.05	1399.4	YES	NO	bb	bb	46.332
17	1234679-HPCDD	39.31	2.579e5	2.438e5	1.286	1.06	1.05	1669.1	YES	NO	bb	bb	50.000
18	OCDD	45.12	3.877e5	4.205e5	1.103	0.92	0.89	2156.8	YES	NO	bd	bb	92.549

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.314e4	8.075e4	0.858	0.78	0.77	825.1	YES	NO	db	db	10.000
2	Total-tetrafurans	27.24	1.177e3	1.490e3	0.933	0.79	0.77	17.2	YES	NO	bd	bd	0.170
3	2378-TCDF	25.88	6.453e4	8.749e4	0.876	0.74	0.77	897.2	YES	NO	bb	bb	10.343
4	Total-tetrafurans	24.81	4.913e2	6.353e2	0.933	0.77	0.77	7.1	YES	NO	dd	db	0.072
5	1368-TCDF	22.39	7.831e4	1.003e5	1.064	0.78	0.77	1124.6	YES	NO	bb	bb	10.000
6	12389-PECDF	32.42	3.693e5	2.481e5	0.844	1.49	1.55	1765.9	YES	NO	bb	bb	50.000
7	23478-PeCDF	31.39	3.878e5	2.552e5	0.911	1.52	1.55	1875.0	YES	NO	bb	bb	49.735
8	12378-PeCDF	30.05	3.683e5	2.382e5	0.845	1.55	1.55	1785.6	YES	NO	bb	bb	49.054
9	Total-pentafurans	28.90	6.175e4	3.932e4	0.866	1.57	1.55	301.5	YES	NO	bb	bb	8.093
10	123678-HxCDF	35.13	3.705e5	2.941e5	1.248	1.26	1.24	1557.7	YES	NO	db	db	49.292
11	123478-HxCDF	34.99	3.439e5	2.707e5	1.182	1.27	1.24	1578.6	YES	NO	bd	bd	49.384
12	123468-HXCDF	33.34	3.538e5	2.768e5	1.197	1.28	1.24	1531.9	YES	NO	bb	bd	50.000
13	123789-HxCDF	37.01	3.044e5	2.379e5	1.187	1.28	1.24	1354.6	YES	NO	bb	bd	49.842
14	234678-HxCDF	35.99	3.473e5	2.734e5	1.229	1.27	1.24	1554.3	YES	NO	bd	bd	50.511
15	1234789-HpCDF	41.10	2.575e5	2.639e5	1.165	0.98	1.05	1546.5	YES	NO	bb	bb	48.293
16	Total-heptafurans	39.51	1.970e3	1.765e3	1.185	1.12	1.05	11.2	YES	NO	bb	bb	0.323
17	1234678-HpCDF	38.85	2.941e5	2.898e5	1.204	1.01	1.05	1976.6	YES	NO	bb	bb	47.249
18	OCDF	45.36	3.904e5	4.394e5	1.186	0.89	0.89	2021.3	YES	NO	bb	bb	88.323
19	13468-PECDF	27.24	4.504e5	2.910e5	1.013	1.55	1.55	7076.3	YES	NO	bb	bb	50.000
20	1289-TCDD	27.12	4.896e4	6.184e4	0.975	0.79	0.77	586.4	YES	NO	bb	bb	10.000
21	2378-TCDD	26.53	5.783e4	7.140e4	1.236	0.81	0.77	690.6	YES	NO	bb	bb	9.200
22	Total-tetradioxins	26.20	8.471e4	1.070e5	1.099	0.79	0.77	703.2	YES	NO	bb	bb	15.362
23	Total-tetradioxins	25.72	2.731e4	3.262e4	1.099	0.84	0.77	331.8	YES	NO	bd	bb	4.800
24	Total-tetradioxins	25.14	7.197e2	8.821e2	1.099	0.82	0.77	7.0	YES	NO	bb	bb	0.128
25	1368-TCDD	23.66	5.365e4	6.956e4	1.084	0.77	0.77	680.3	YES	NO	bb	bb	10.000
26	12389-PECDD	32.03	3.312e5	2.102e5	1.252	1.58	1.55	2720.3	YES	NO	bb	bb	50.000
27	12378-PeCDD	31.64	2.871e5	1.811e5	1.087	1.59	1.55	2335.1	YES	NO	bb	bb	49.835
28	Total-pentadioxins	30.97	1.319e3	9.625e2	1.392	1.37	1.55	9.7	YES	NO	bb	bb	0.190
29	Total-pentadioxins	29.24	2.122e2	1.231e2	1.392	1.72	1.55	2.9	NO	NO	bb	bb	0.028
30	12479-PECDD	28.91	4.860e5	3.082e5	1.837	1.58	1.55	2418.8	YES	NO	bb	bb	50.000
31	124679-HXCDD	34.10	2.650e5	2.155e5	1.033	1.23	1.24	1521.7	YES	NO	bb	bb	50.000
32	123789-HxCDD	36.61	2.521e5	2.108e5	0.985	1.20	1.24	1500.2	YES	NO	bb	bb	49.951
33	123678-HxCDD	36.22	2.605e5	2.153e5	1.021	1.21	1.24	1550.9	YES	NO	db	db	49.052
34	123478-HxCDD	36.11	2.492e5	2.039e5	0.987	1.22	1.24	1555.2	YES	NO	bd	bd	49.339
35	1234678-HpCDD	40.35	2.309e5	2.219e5	1.253	1.04	1.05	1399.4	YES	NO	bb	bb	46.332
36	1234679-HPCDD	39.31	2.579e5	2.438e5	1.286	1.06	1.05	1669.1	YES	NO	bb	bb	50.000
37	OCDD	45.12	3.877e5	4.205e5	1.103	0.92	0.89	2156.8	YES	NO	bd	bb	92.549

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.91	6.852e5					20.8	YES		dd		
2	FUNCTION1 PFK	21.84	1.096e6					22.0	YES		dd		
3	FUNCTION1 PFK	21.77	5.746e5					22.9	YES		dd		
4	FUNCTION1 PFK	21.71	1.001e6					23.9	YES		dd		
5	FUNCTION1 PFK	21.59	1.735e6					26.6	YES		dd		
6	FUNCTION1 PFK	21.47	1.869e6					28.4	YES		dd		
7	FUNCTION1 PFK	21.35	2.030e6					30.8	YES		dd		
8	FUNCTION1 PFK	21.25	1.366e6					32.7	YES		dd		
9	FUNCTION1 PFK	21.13	3.514e6					34.9	YES		bd		
10	FUNCTION1 PFK	23.42	1.745e4					0.9	NO		db		
11	FUNCTION1 PFK	23.36	2.629e4					1.1	NO		dd		
12	FUNCTION1 PFK	23.30	5.605e4					1.4	NO		bd		
13	FUNCTION1 PFK	23.16	2.732e4					0.9	NO		bb		
14	FUNCTION1 PFK	22.89	1.080e5					3.0	YES		db		
15	FUNCTION1 PFK	22.81	1.442e5					3.9	YES		dd		
16	FUNCTION1 PFK	22.75	1.516e5					4.8	YES		dd		
17	FUNCTION1 PFK	22.69	1.790e5					5.6	YES		dd		
18	FUNCTION1 PFK	22.56	6.347e5					8.4	YES		dd		
19	FUNCTION1 PFK	22.42	5.662e5					10.5	YES		dd		
20	FUNCTION1 PFK	22.36	4.892e5					12.2	YES		dd		
21	FUNCTION1 PFK	22.30	4.241e5					12.7	YES		dd		
22	FUNCTION1 PFK	22.18	1.005e6					15.7	YES		dd		
23	FUNCTION1 PFK	22.10	6.911e5					16.7	YES		dd		
24	FUNCTION1 PFK	22.04	6.019e5					18.1	YES		dd		
25	FUNCTION1 PFK	21.98	6.245e5					18.6	YES		dd		
26	FUNCTION1 PFK	25.17	1.799e4					0.9	NO		bb		
27	FUNCTION1 PFK	25.05	6.677e4					1.7	NO		bb		
28	FUNCTION1 PFK	24.97	5.669e3					0.4	NO		db		
29	FUNCTION1 PFK	24.93	2.665e4					1.1	NO		bd		
30	FUNCTION1 PFK	24.79	9.106e3					0.5	NO		bb		
31	FUNCTION1 PFK	24.70	2.803e4					1.0	NO		bb		
32	FUNCTION1 PFK	24.60	2.266e4					1.1	NO		bb		
33	FUNCTION1 PFK	24.51	2.481e3					0.3	NO		bb		
34	FUNCTION1 PFK	24.26	2.953e3					0.3	NO		bb		
35	FUNCTION1 PFK	24.07	3.464e4					0.9	NO		db		
36	FUNCTION1 PFK	23.95	2.818e4					0.8	NO		bd		
37	FUNCTION1 PFK	23.86	1.761e4					1.0	NO		bb		

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	23.80	2.745e4					1.4	NO		db		
39	FUNCTION1 PFK	23.75	2.279e4					1.2	NO		bd		
40	FUNCTION1 PFK	23.57	1.177e3					0.1	NO		bb		
41	FUNCTION1 PFK	23.51	3.339e4					1.1	NO		bb		
42	FUNCTION1 PFK	26.92	1.624e4					0.8	NO		bd		
43	FUNCTION1 PFK	26.85	6.743e4					2.0	NO		db		
44	FUNCTION1 PFK	26.77	3.605e4					1.4	NO		dd		
45	FUNCTION1 PFK	26.71	5.041e4					1.7	NO		dd		
46	FUNCTION1 PFK	26.64	3.066e4					1.2	NO		dd		
47	FUNCTION1 PFK	26.58	3.222e4					1.5	NO		bd		
48	FUNCTION1 PFK	26.50	4.287e4					1.3	NO		bb		
49	FUNCTION1 PFK	26.32	9.896e3					0.6	NO		bb		
50	FUNCTION1 PFK	26.26	3.724e4					1.5	NO		bb		
51	FUNCTION1 PFK	26.18	3.323e3					0.4	NO		bb		
52	FUNCTION1 PFK	26.05	1.864e4					1.0	NO		bb		
53	FUNCTION1 PFK	25.91	1.114e4					0.6	NO		bb		
54	FUNCTION1 PFK	25.79	1.895e4					1.1	NO		db		
55	FUNCTION1 PFK	25.72	1.527e4					0.8	NO		bd		
56	FUNCTION1 PFK	25.56	6.069e4					1.2	NO		bb		
57	FUNCTION1 PFK	25.32	2.043e4					0.8	NO		bb		
58	FUNCTION1 PFK	28.10	6.905e3					0.5	NO		bb		
59	FUNCTION1 PFK	28.04	4.818e3					0.4	NO		bb		
60	FUNCTION1 PFK	27.71	1.514e4					0.8	NO		bb		
61	FUNCTION1 PFK	27.65	3.709e4					1.3	NO		db		
62	FUNCTION1 PFK	27.59	2.458e4					1.3	NO		dd		
63	FUNCTION1 PFK	27.53	4.906e4					1.8	NO		bd		
64	FUNCTION1 PFK	27.44	2.074e4					1.1	NO		db		
65	FUNCTION1 PFK	27.38	2.487e4					1.2	NO		dd		
66	FUNCTION1 PFK	27.24	6.345e4					1.2	NO		bd		
67	FUNCTION1 PFK	26.99	2.492e4					1.1	NO		db		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.79	2.481e4					1.5	NO		bb		0.000
2	FUNCTION3 PFK	33.58	3.048e3					0.6	NO		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.11	2.881e5					5.9	YES		bd		
2	FUNCTION4 PFK	40.30	1.799e3					0.6	NO		bb		
3	FUNCTION4 PFK	40.24	8.794e3					0.9	NO		bb		
4	FUNCTION4 PFK	39.76	2.592e4					1.9	NO		bb		
5	FUNCTION4 PFK	39.53	1.727e3					0.6	NO		bb		
6	FUNCTION4 PFK	39.42	8.213e3					1.1	NO		db		
7	FUNCTION4 PFK	39.37	5.168e3					0.8	NO		bd		
8	FUNCTION4 PFK	39.28	3.722e4					2.1	NO		bb		
9	FUNCTION4 PFK	39.18	4.002e3					0.6	NO		bb		
10	FUNCTION4 PFK	39.14	3.342e3					0.8	NO		bb		
11	FUNCTION4 PFK	38.74	2.110e3					0.5	NO		bb		
12	FUNCTION4 PFK	38.66	1.735e4					1.0	NO		bb		
13	FUNCTION4 PFK	38.54	3.610e3					0.6	NO		db		
14	FUNCTION4 PFK	38.50	2.411e3					0.6	NO		bd		
15	FUNCTION4 PFK	38.43	2.873e4					2.5	NO		db		
16	FUNCTION4 PFK	38.38	2.222e4					2.3	NO		dd		
17	FUNCTION4 PFK	38.32	4.040e4					3.1	YES		dd		
18	FUNCTION4 PFK	42.54	1.660e3					0.6	NO		bb		
19	FUNCTION4 PFK	42.49	5.115e3					0.7	NO		db		
20	FUNCTION4 PFK	42.43	1.342e4					1.1	NO		dd		
21	FUNCTION4 PFK	42.39	8.107e3					1.2	NO		dd		
22	FUNCTION4 PFK	42.35	1.540e4					1.7	NO		bd		
23	FUNCTION4 PFK	42.28	2.692e4					2.0	NO		bb		
24	FUNCTION4 PFK	41.95	3.858e3					0.8	NO		bb		
25	FUNCTION4 PFK	41.80	3.979e4					2.0	NO		db		
26	FUNCTION4 PFK	41.65	1.699e4					1.5	NO		bd		
27	FUNCTION4 PFK	41.55	1.804e4					1.5	NO		db		
28	FUNCTION4 PFK	41.49	1.585e4					1.6	NO		dd		
29	FUNCTION4 PFK	41.42	1.775e4					1.4	NO		dd		
30	FUNCTION4 PFK	41.29	3.051e4					1.6	NO		bd		
31	FUNCTION4 PFK	41.07	3.910e3					0.8	NO		bb		
32	FUNCTION4 PFK	40.83	2.327e4					1.7	NO		bb		
33	FUNCTION4 PFK	40.44	5.321e3					0.8	NO		bb		
34	FUNCTION4 PFK	42.75	1.970e3					0.4	NO		bb		
35	FUNCTION4 PFK	42.66	4.393e3					0.6	NO		bb		

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.93	2.684e3					0.8	NO		bb		
2	FUNCTION5 PFK	44.87	6.256e3					1.5	NO		bb		
3	FUNCTION5 PFK	44.78	1.077e4					1.6	NO		bb		
4	FUNCTION5 PFK	44.72	7.200e2					0.5	NO		bb		
5	FUNCTION5 PFK	44.65	1.235e3					0.8	NO		bb		
6	FUNCTION5 PFK	44.28	7.736e2					0.5	NO		bb		
7	FUNCTION5 PFK	44.24	1.418e3					0.7	NO		db		
8	FUNCTION5 PFK	44.21	4.442e3					1.2	NO		bd		
9	FUNCTION5 PFK	44.18	5.811e3					0.9	NO		bb		
10	FUNCTION5 PFK	43.82	5.499e3					1.3	NO		bb		
11	FUNCTION5 PFK	43.56	1.617e4					1.7	NO		bb		
12	FUNCTION5 PFK	43.36	1.625e3					0.7	NO		bb		
13	FUNCTION5 PFK	43.23	2.679e3					0.9	NO		bb		
14	FUNCTION5 PFK	46.45	4.419e3					1.2	NO		bb		
15	FUNCTION5 PFK	46.36	5.978e3					1.0	NO		bb		
16	FUNCTION5 PFK	46.26	2.259e3					0.8	NO		bb		
17	FUNCTION5 PFK	46.07	3.509e3					1.0	NO		bb		
18	FUNCTION5 PFK	45.84	4.173e3					1.3	NO		bb		
19	FUNCTION5 PFK	45.76	6.984e2					0.4	NO		bb		
20	FUNCTION5 PFK	45.72	1.077e3					0.7	NO		bb		
21	FUNCTION5 PFK	45.60	7.851e2					0.5	NO		bb		
22	FUNCTION5 PFK	45.54	4.517e3					1.2	NO		db		
23	FUNCTION5 PFK	45.49	1.078e4					1.5	NO		dd		
24	FUNCTION5 PFK	45.41	6.756e3					1.7	NO		dd		
25	FUNCTION5 PFK	45.38	1.279e4					2.2	NO		bd		
26	FUNCTION5 PFK	45.28	8.503e2					0.4	NO		bb		
27	FUNCTION5 PFK	45.04	4.420e3					1.2	NO		bb		
28	FUNCTION5 PFK	44.98	7.643e2					0.5	NO		bb		

ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.82	2.306e2					4.0	YES		db		0.000
2	FUNCTION1 HXCD...	27.74	8.055e1					1.8	NO		bd		0.000
3	FUNCTION1 HXCD...	27.59	1.178e2					2.5	NO		bb		0.000
4	FUNCTION1 HXCD...	27.21	1.030e2					1.7	NO		bb		0.000
5	FUNCTION1 HXCD...	27.02	8.155e1					1.5	NO		db		0.000
6	FUNCTION1 HXCD...	26.85	8.440e1					2.6	NO		bd		0.000
7	FUNCTION1 HXCD...	26.52	1.203e2					2.7	NO		bb		0.000
8	FUNCTION1 HXCD...	25.93	1.681e2					3.0	YES		bb		0.000
9	FUNCTION1 HXCD...	24.22	7.069e1					2.3	NO		bb		0.000
10	FUNCTION1 HXCD...	23.52	8.011e1					1.5	NO		bb		0.000
11	FUNCTION1 HXCD...	21.12	9.981e1					1.8	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	23.48	8.076e1					2.6	NO		bb		0.000
2	FUNCTION1 HPCD...	21.66	8.657e1					2.4	NO		bb		0.000
3	FUNCTION1 HPCD...	21.27	8.855e1					2.3	NO		db		0.000
4	FUNCTION1 HPCD...	21.16	2.367e2					2.7	NO		bd		0.000
5	FUNCTION1 HPCD...	27.79	1.270e2					2.7	NO		bb		0.000
6	FUNCTION1 HPCD...	26.52	1.210e2					2.0	NO		bb		0.000
7	FUNCTION1 HPCD...	25.97	9.169e1					1.5	NO		db		0.000
8	FUNCTION1 HPCD...	25.88	1.471e2					2.3	NO		dd		0.000
9	FUNCTION1 HPCD...	25.73	1.363e2					1.9	NO		bd		0.000
10	FUNCTION1 HPCD...	24.82	1.792e2					1.5	NO		db		0.000
11	FUNCTION1 HPCD...	24.63	7.297e1					1.7	NO		bd		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.64	8.233e1					2.0	NO		bb		0.000
2	FUNCTION2 HPCD...	31.26	3.994e2					8.3	YES		bb		0.000

ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.42	1.052e2					1.7	NO		bb		0.000
2	FUNCTION3 OCDPE	36.19	9.953e1					2.2	NO		bb		0.000
3	FUNCTION3 OCDPE	34.50	7.262e1					2.2	NO		bb		0.000
4	FUNCTION3 OCDPE	33.58	9.379e1					1.9	NO		bb		0.000
5	FUNCTION3 OCDPE	33.20	7.737e1					3.3	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.82	9.720e1					2.9	NO		bb		0.000
2	FUNCTION4 NCDPE	42.34	7.165e1					2.1	NO		bb		0.000
3	FUNCTION4 NCDPE	40.58	7.068e1					1.3	NO		bb		0.000
4	FUNCTION4 NCDPE	40.40	1.414e2					1.7	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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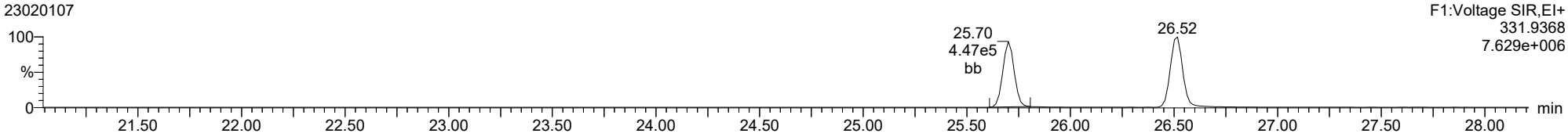

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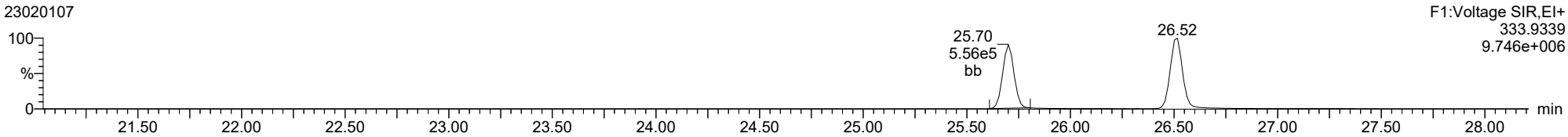

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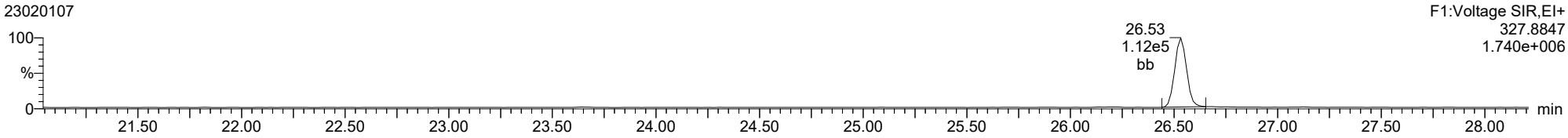

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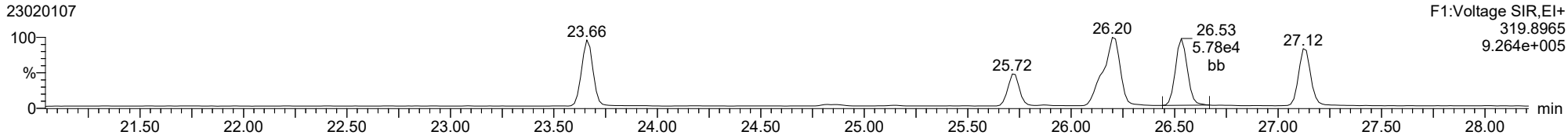

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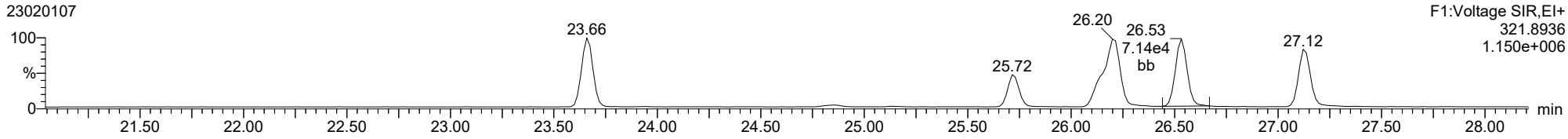

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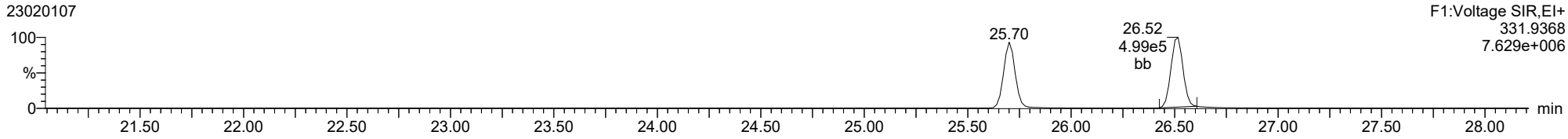

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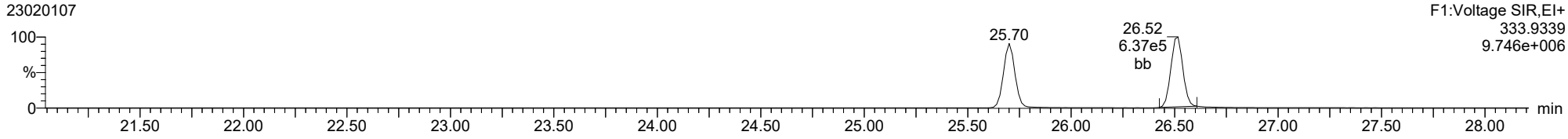

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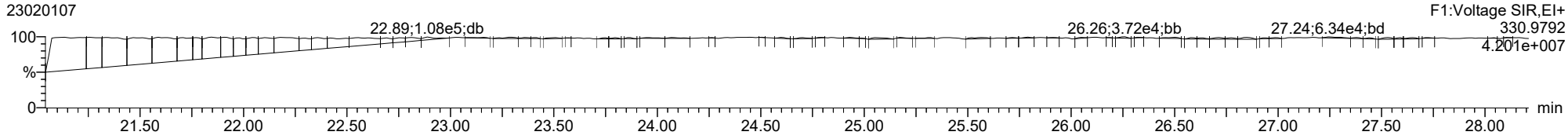

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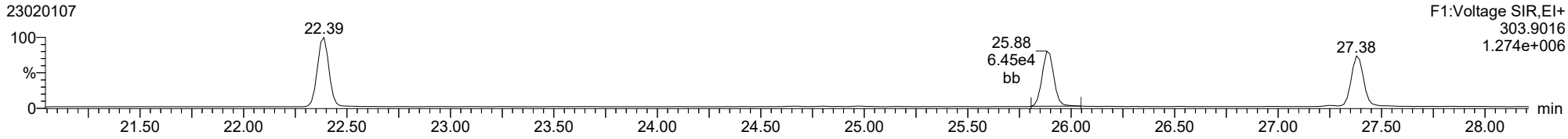

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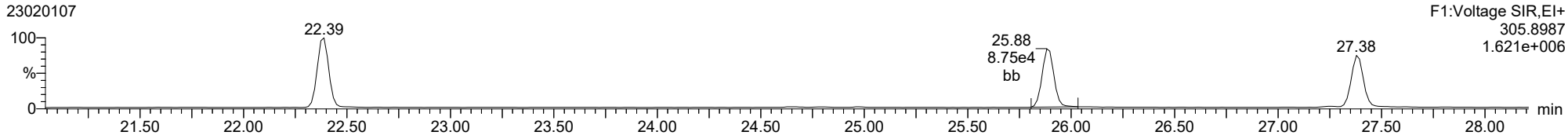

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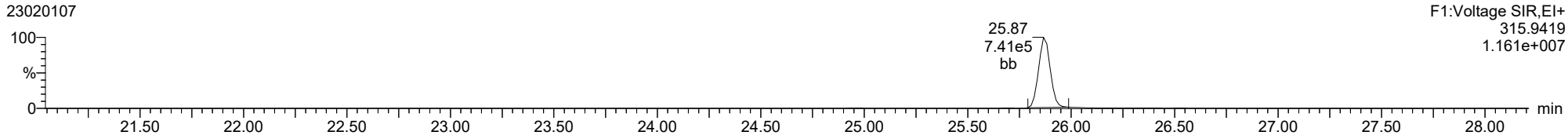

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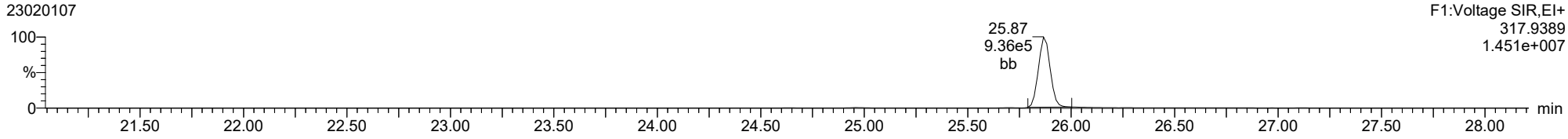

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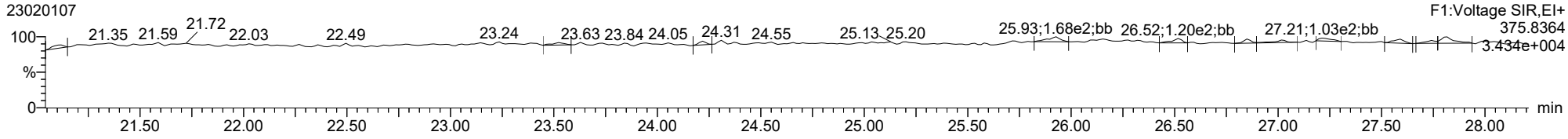

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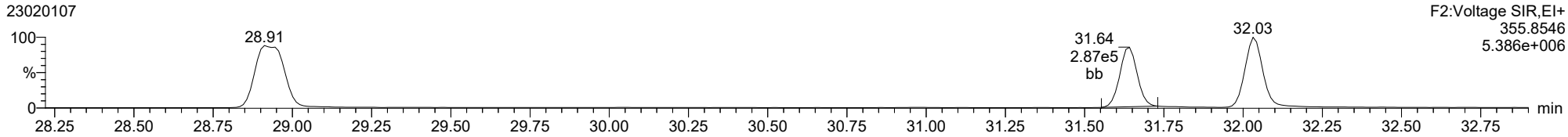

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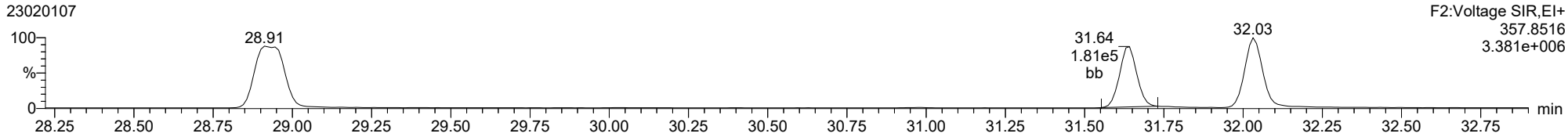

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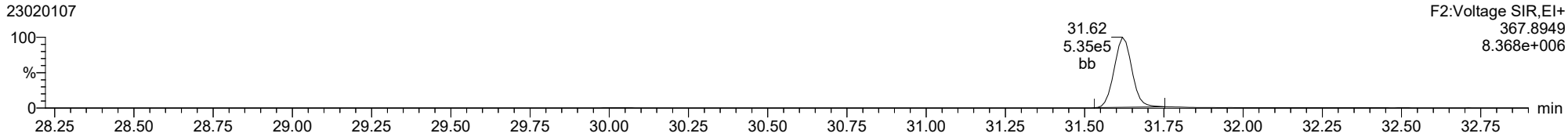

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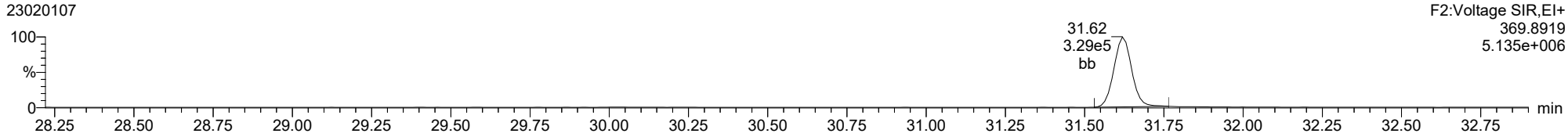
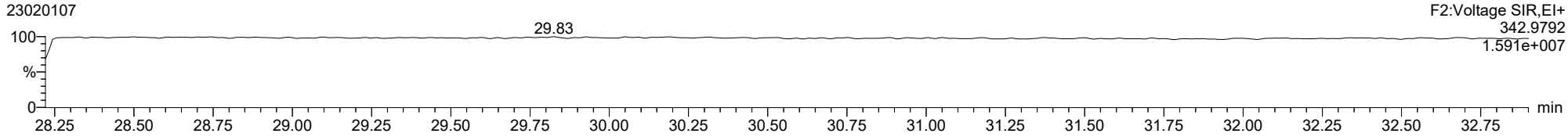


FUNCTION2 PFK



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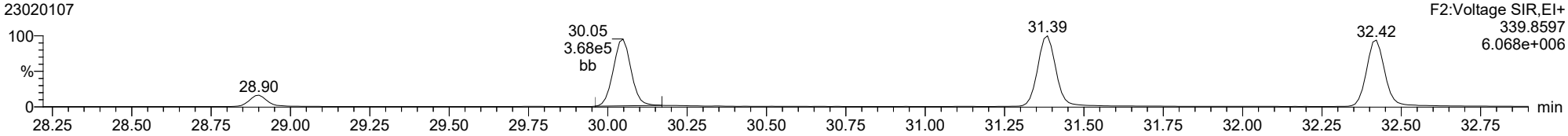

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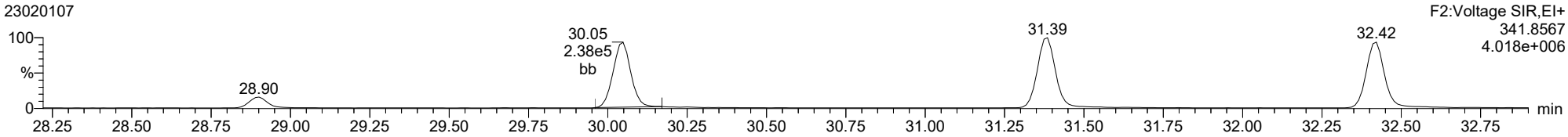

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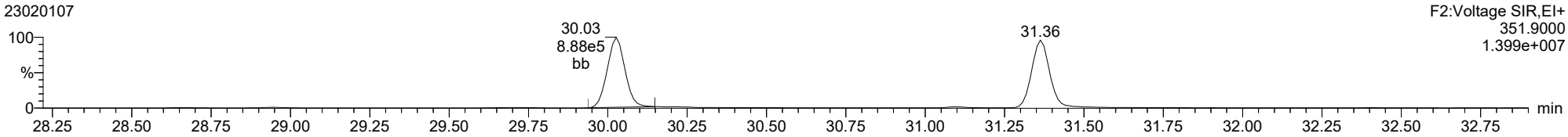

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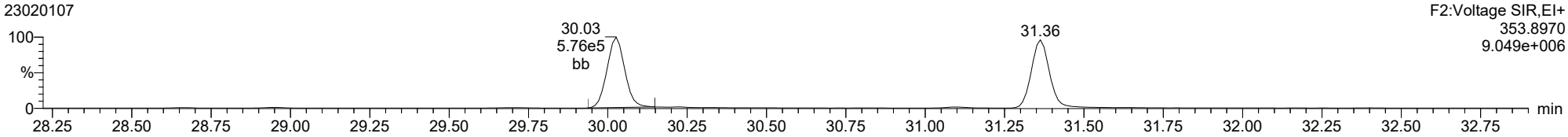
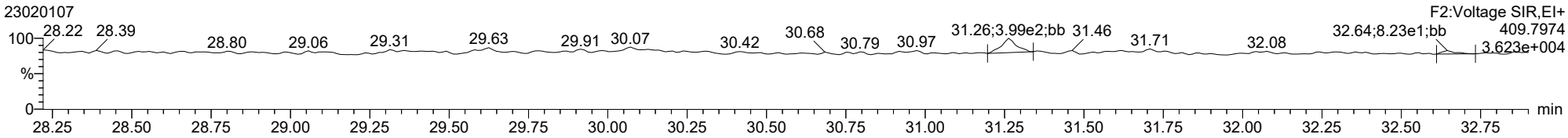


FUNCTION2 HPCDPE



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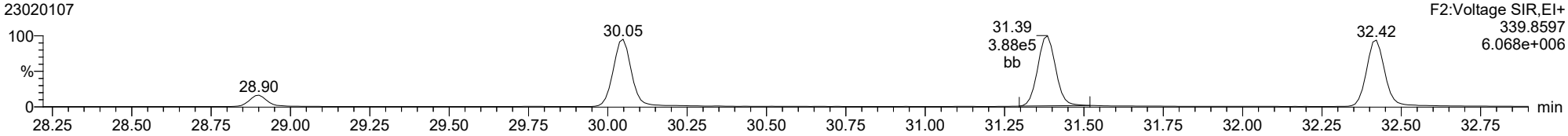

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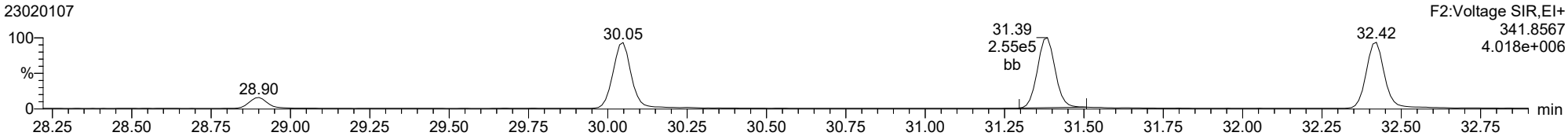

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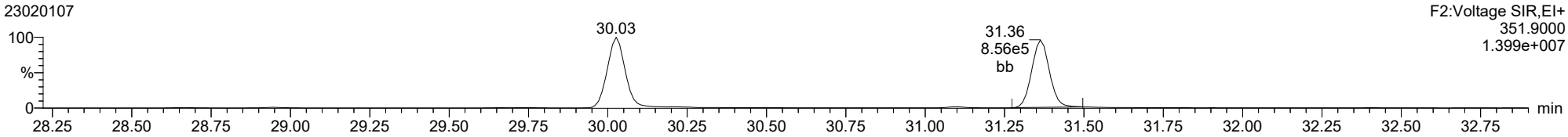

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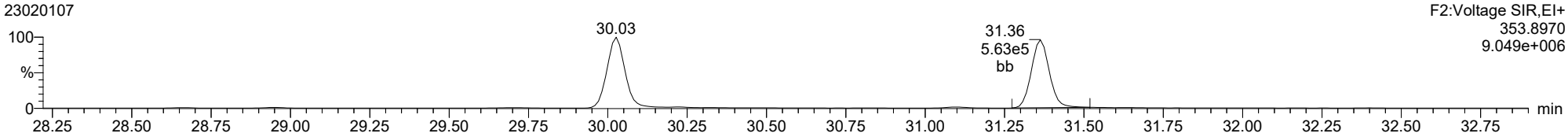

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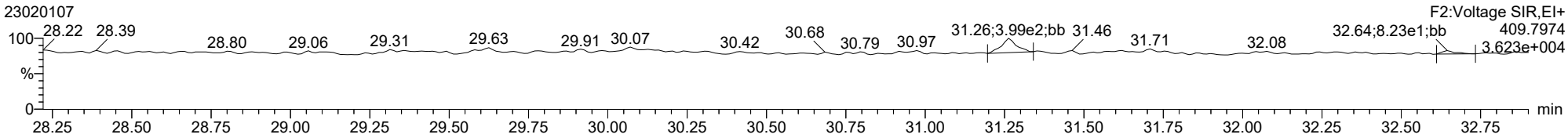

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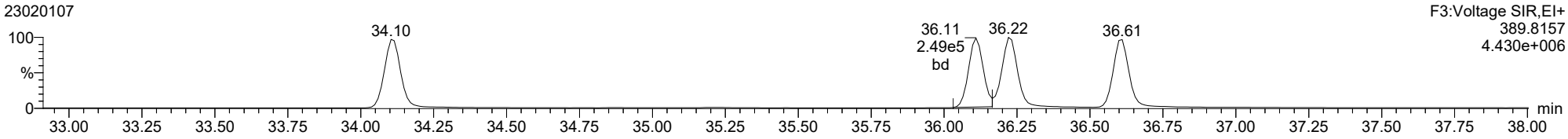
123478-HxCDD



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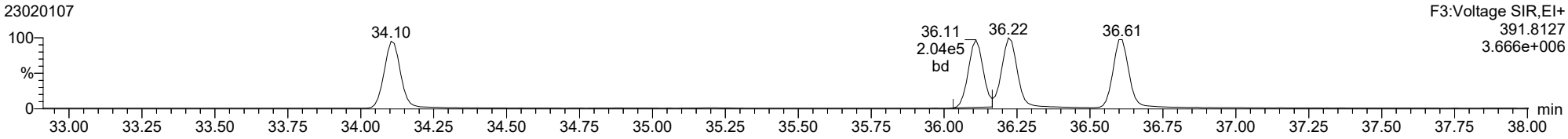

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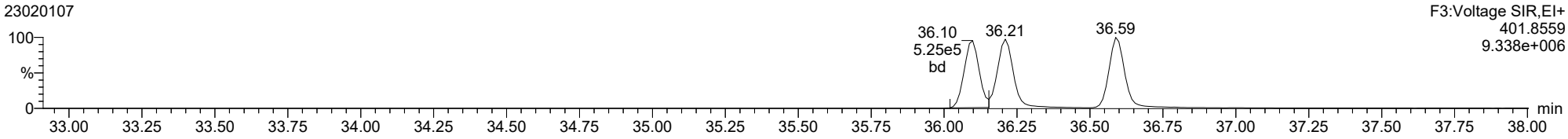

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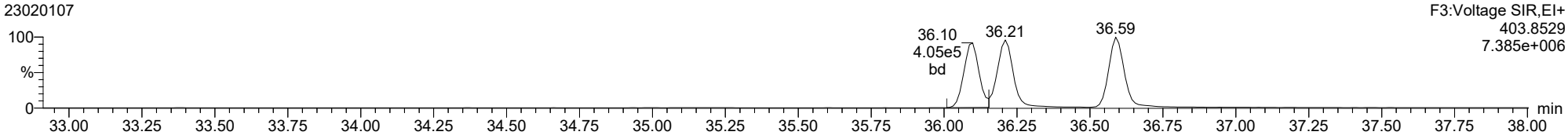

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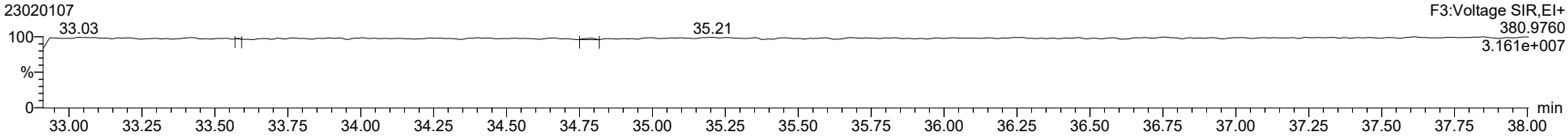

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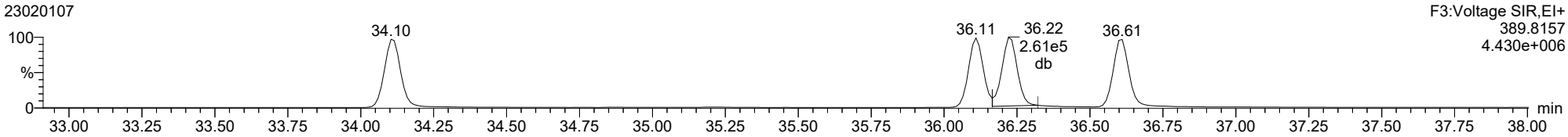

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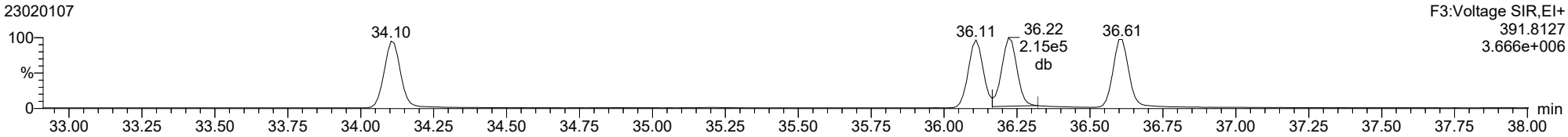

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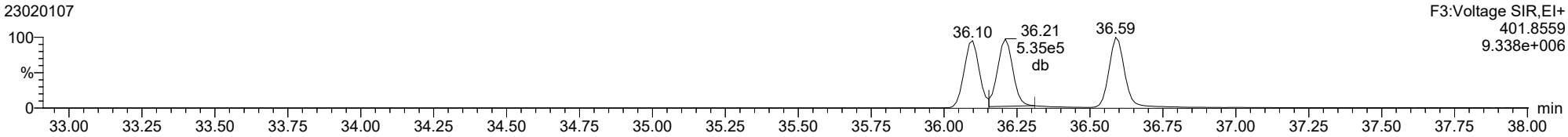

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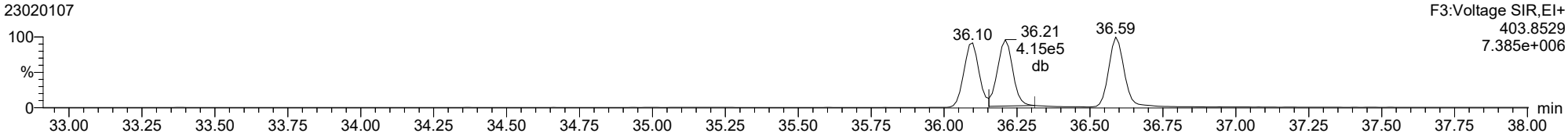

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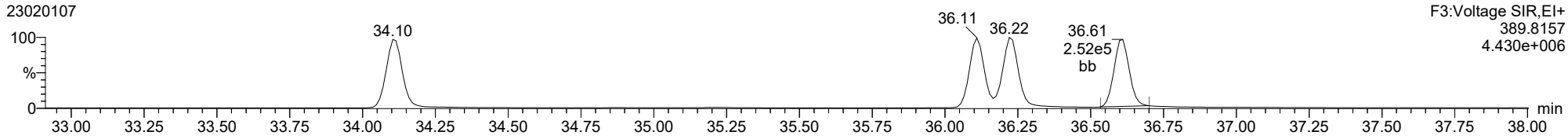

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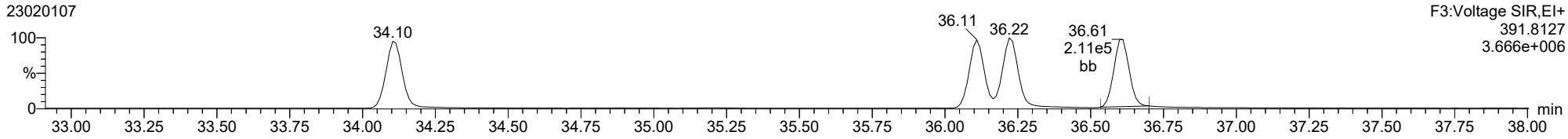

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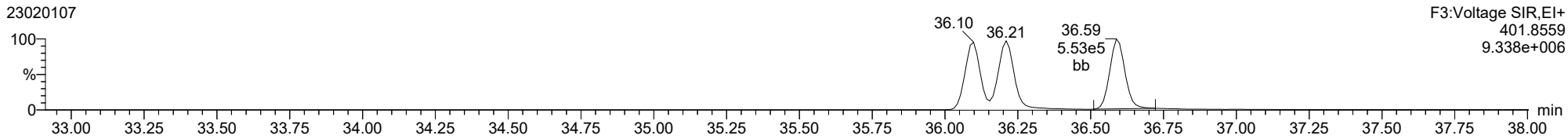

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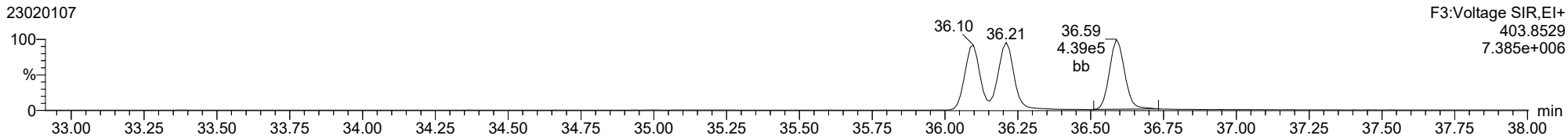

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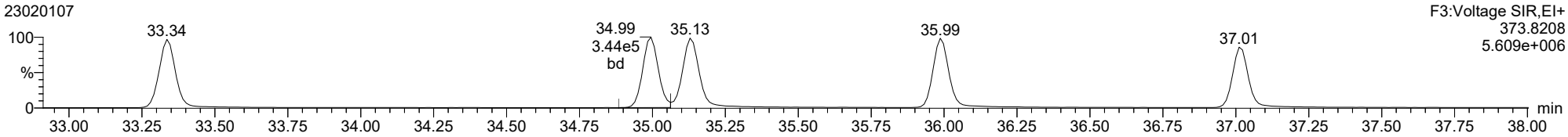

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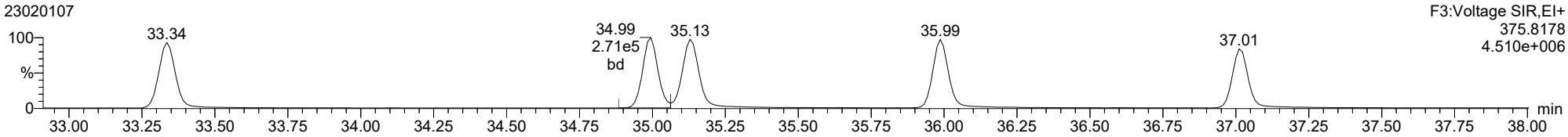

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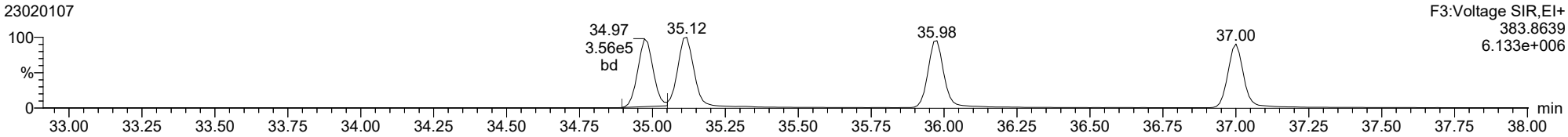

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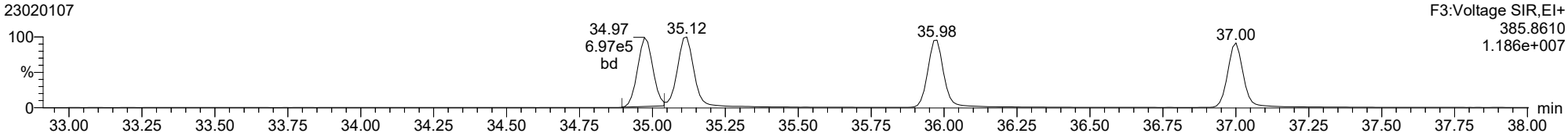

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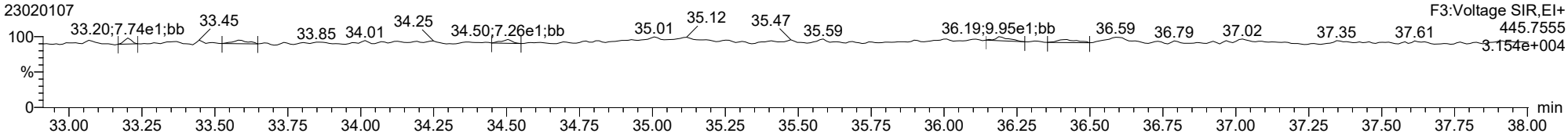

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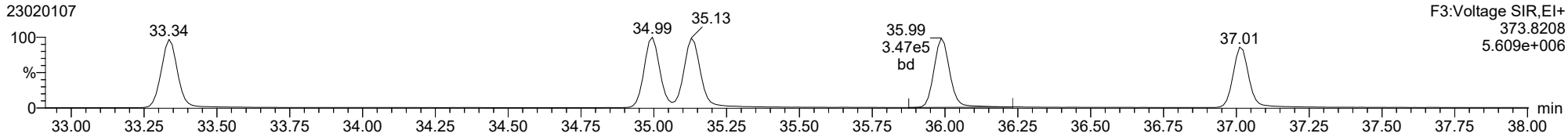

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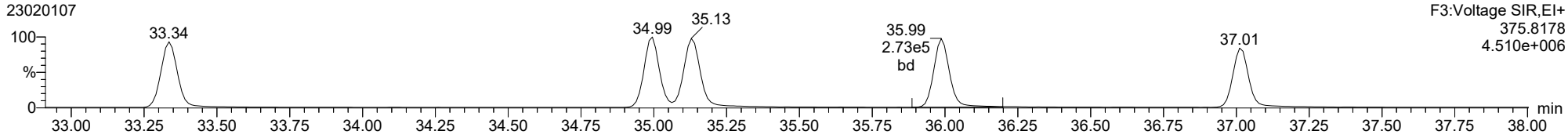

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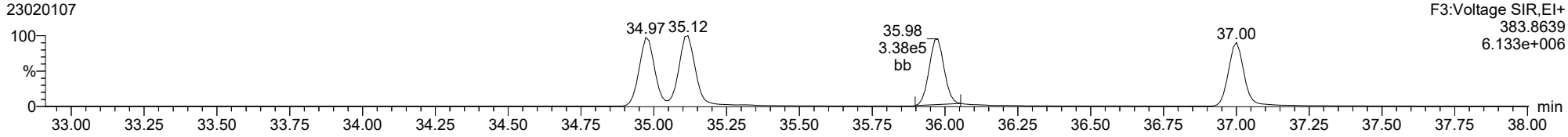

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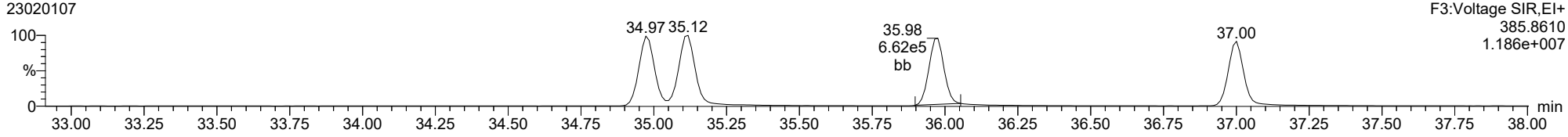

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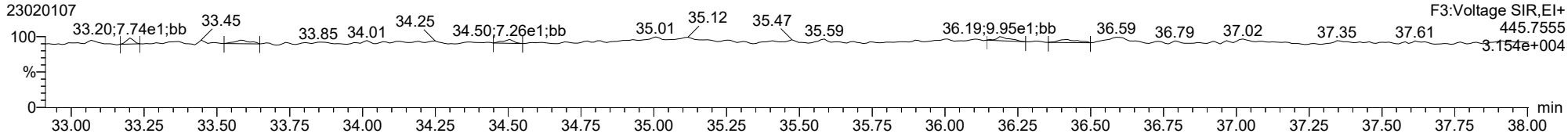

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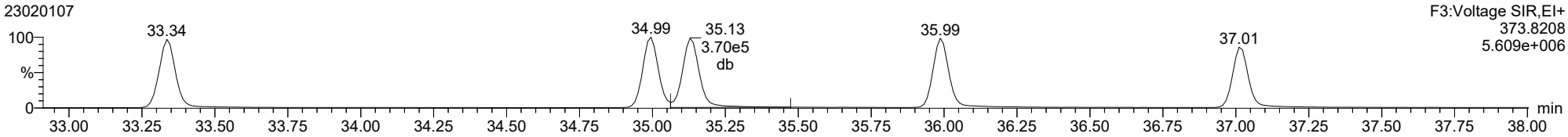

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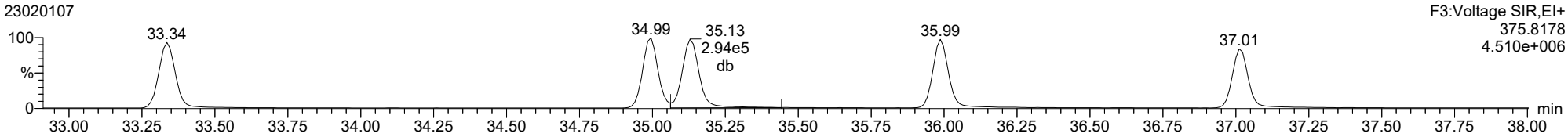

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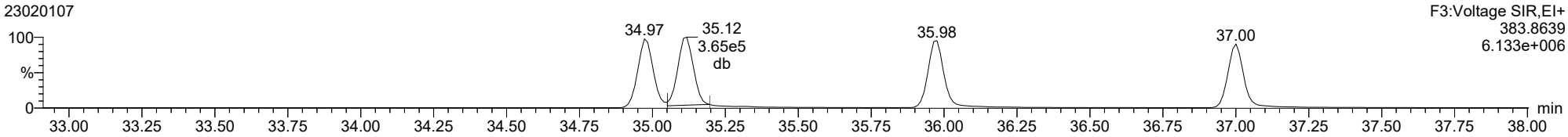

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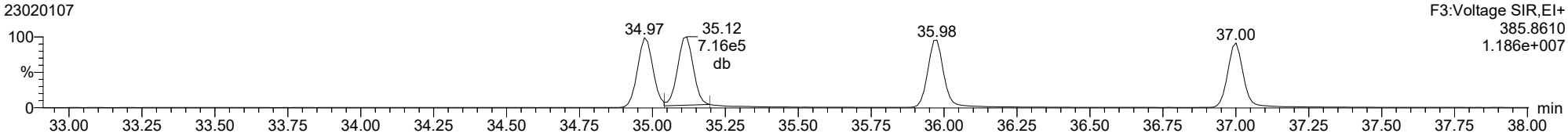

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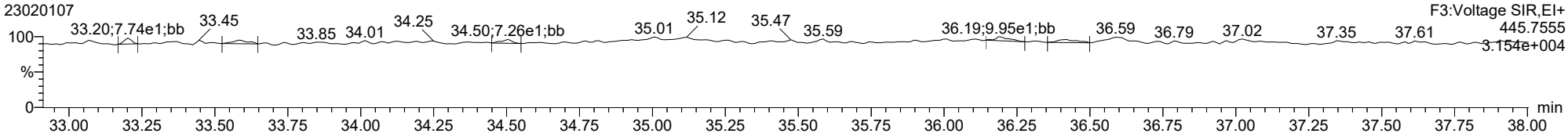

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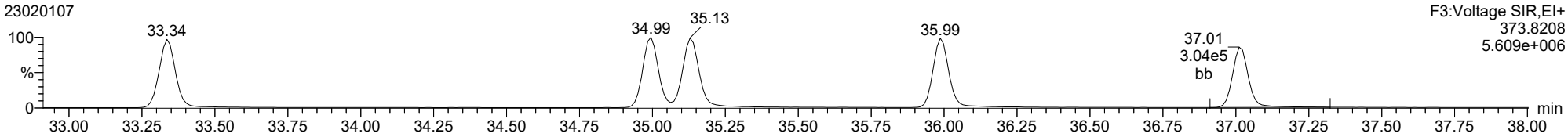

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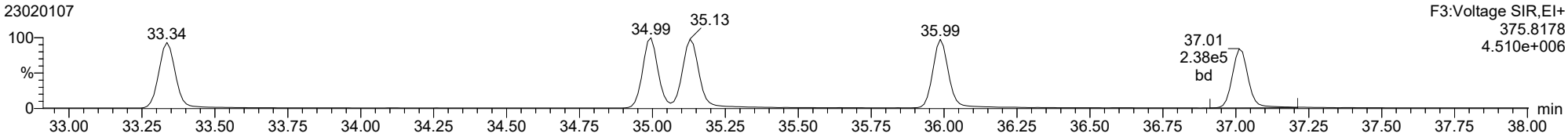

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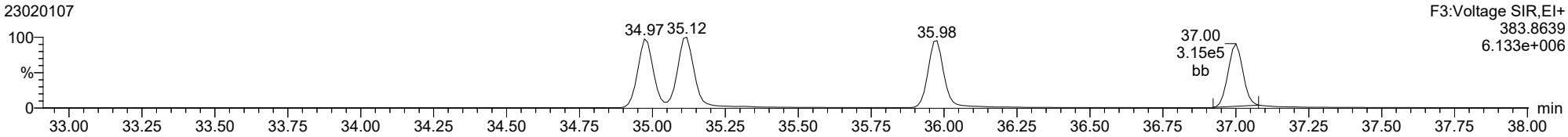

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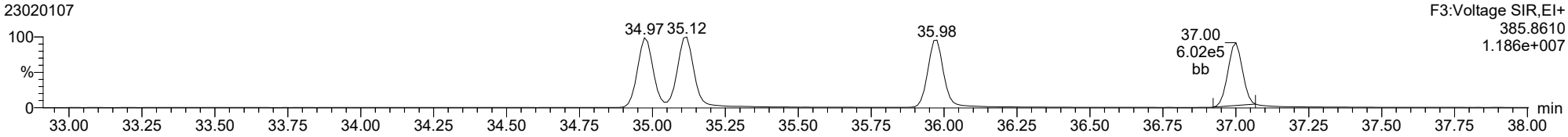
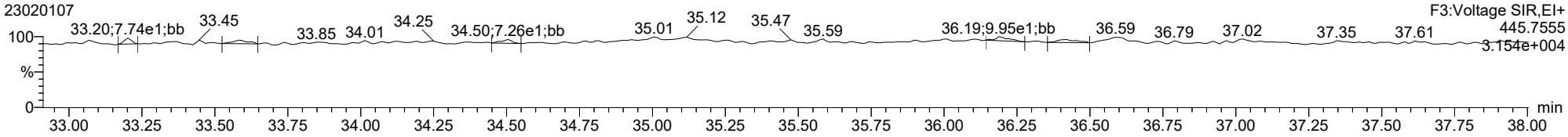


FUNCTION3 OCDPE



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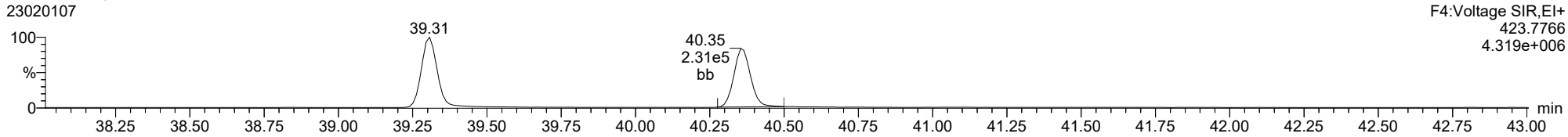

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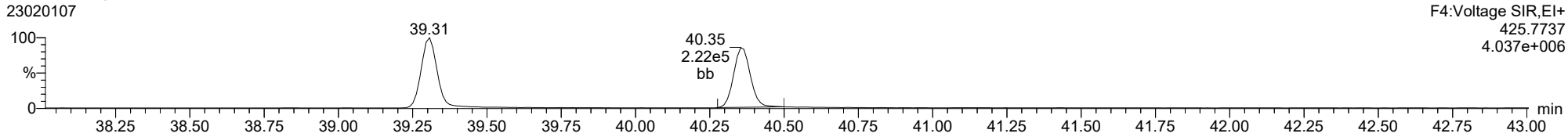

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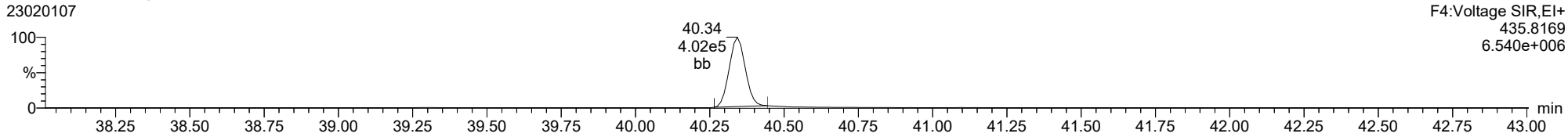

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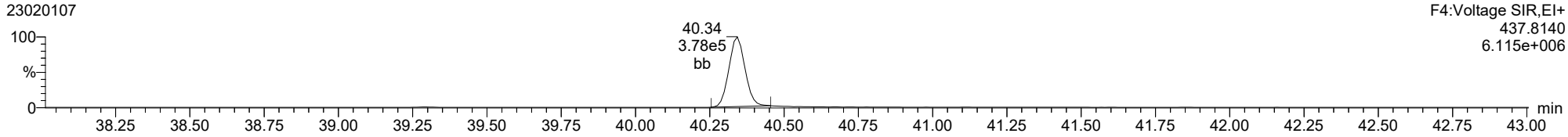

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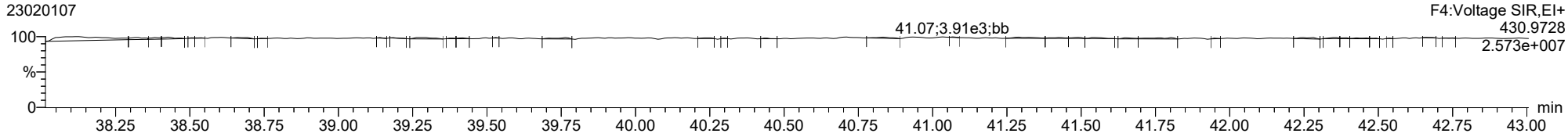

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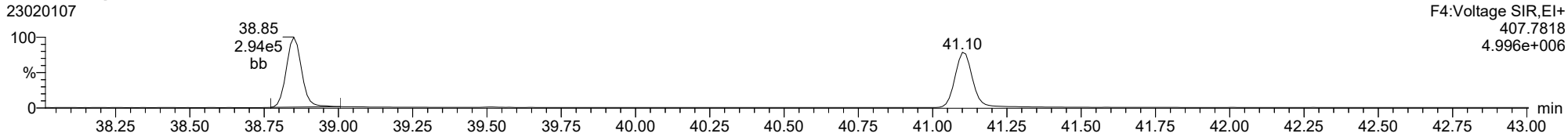

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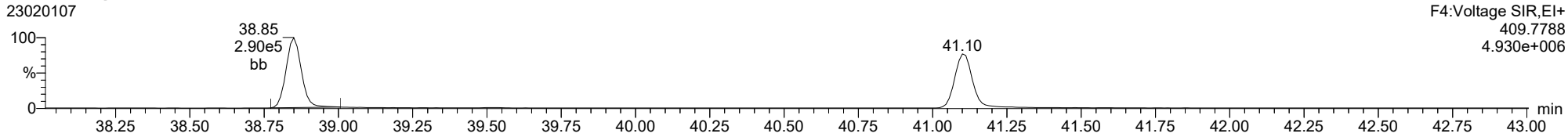

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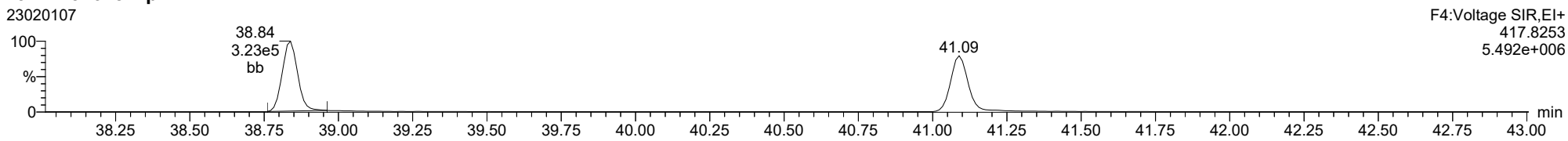

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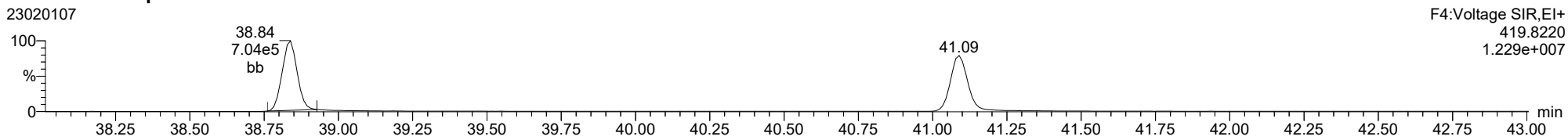
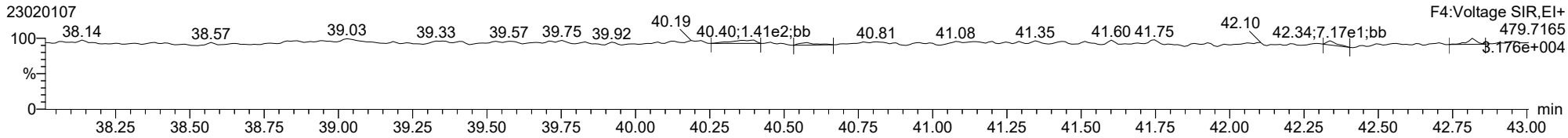


FUNCTION4 NCDPE



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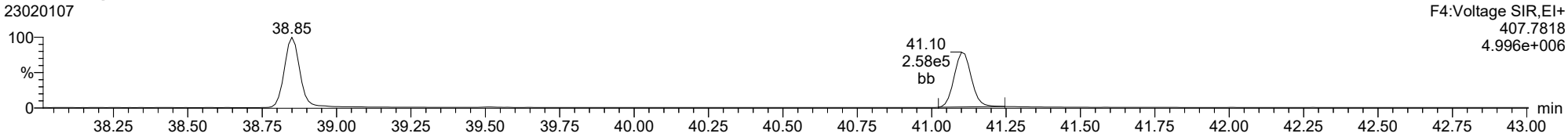

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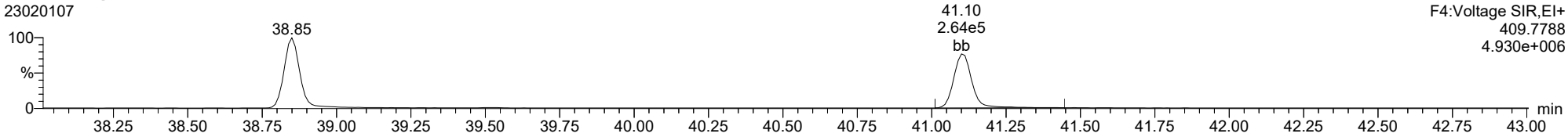

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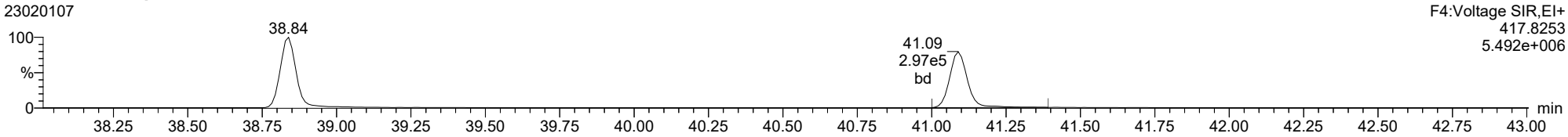

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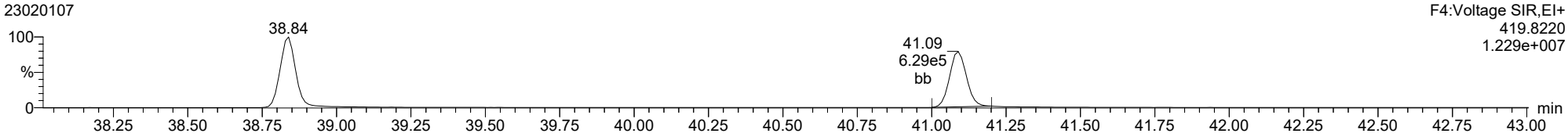

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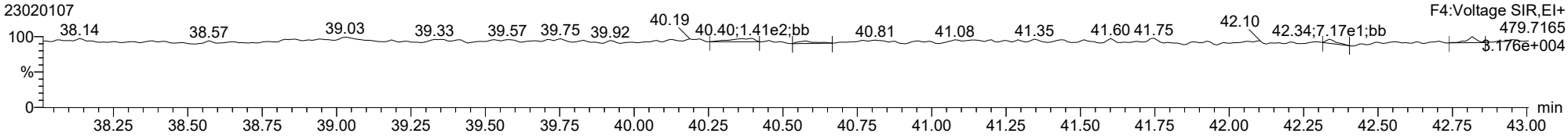

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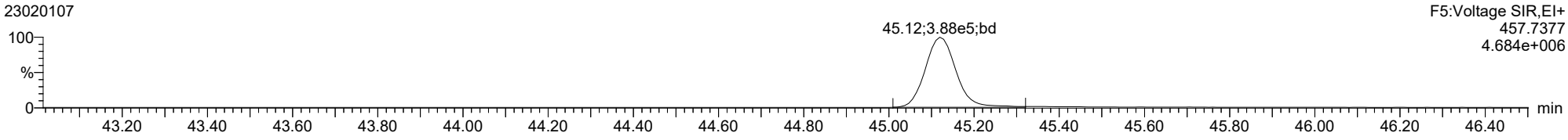

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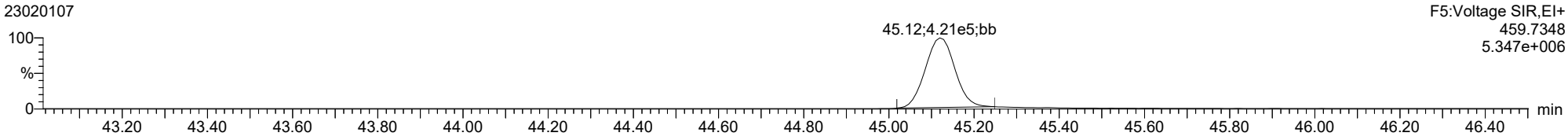

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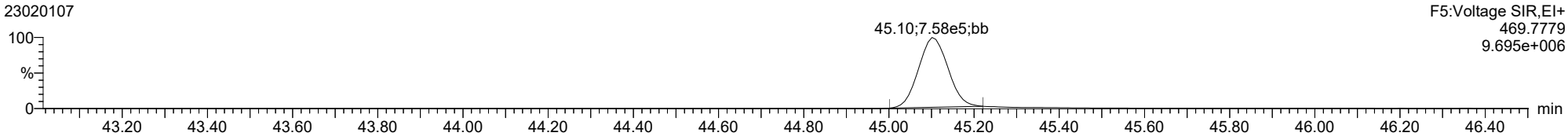

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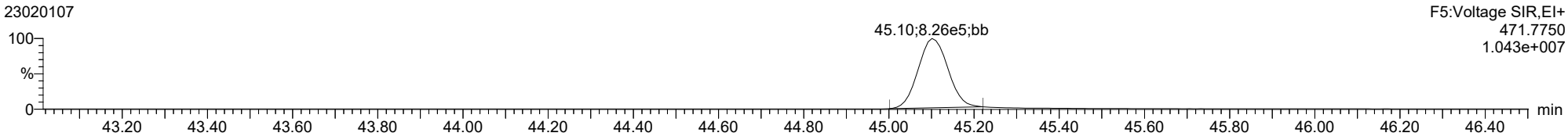
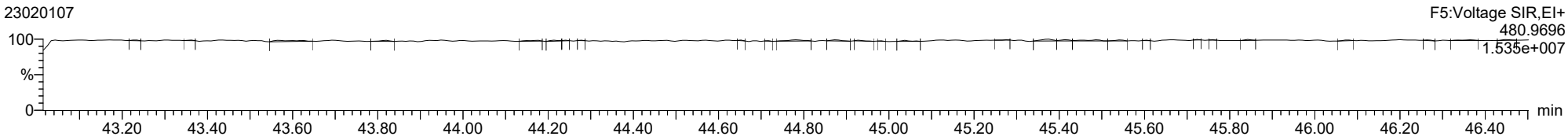


FUNCTION5 PFK



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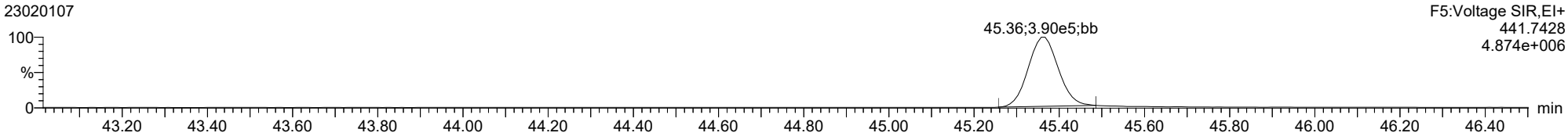
OCDF



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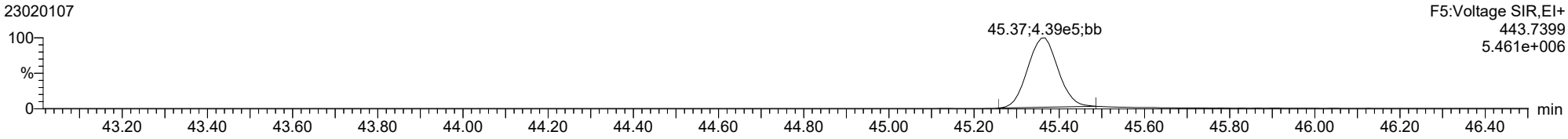
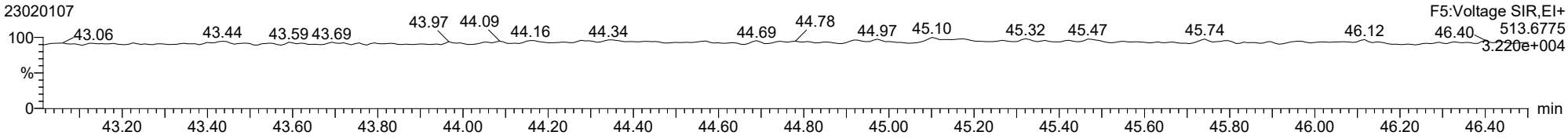


FUNCTION5 DCDPE



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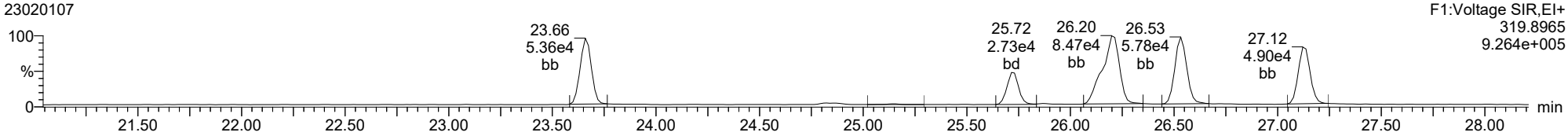
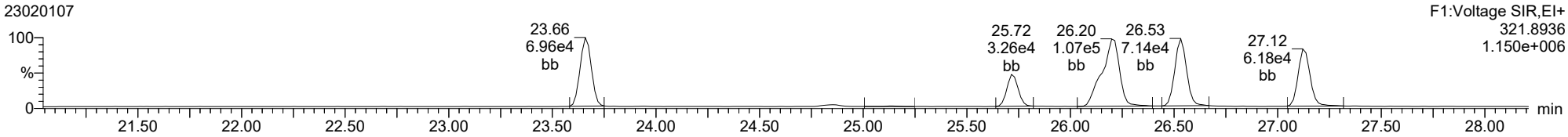
Total-tetradioxins



Total-tetradioxins



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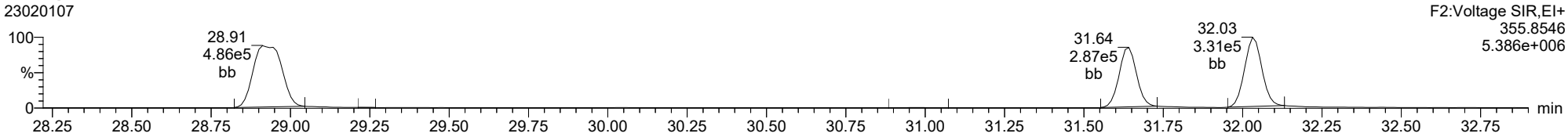

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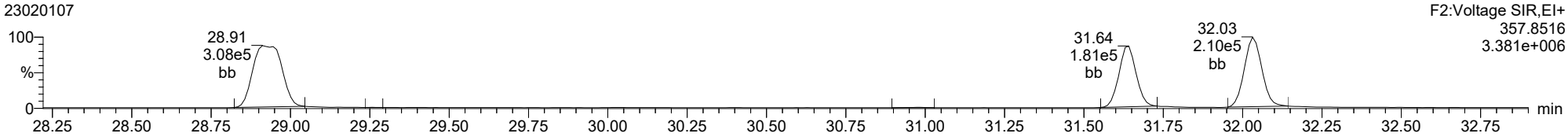

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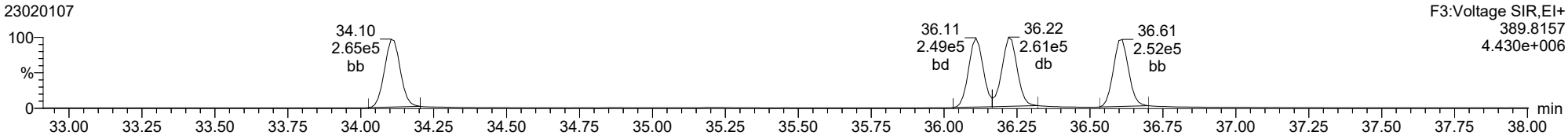
Total-hexadioxins



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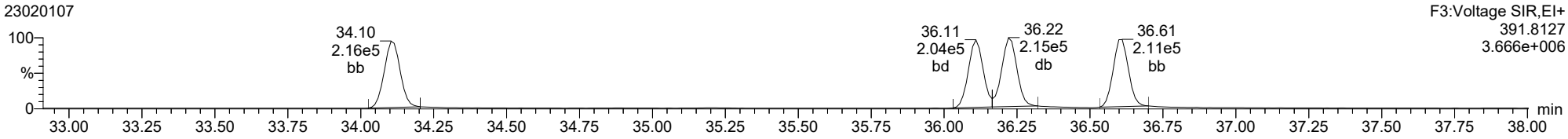

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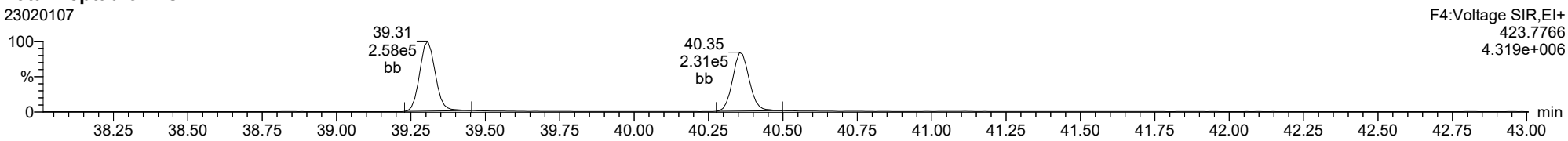
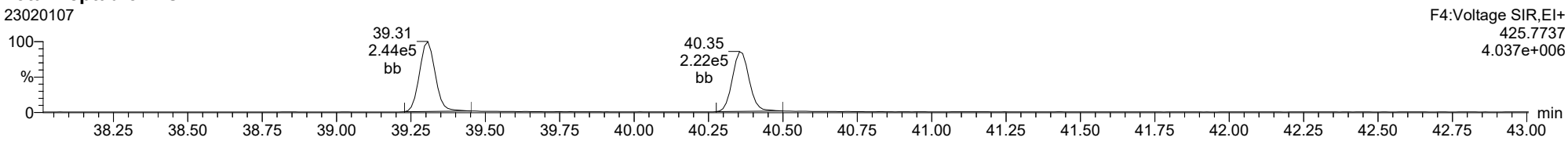


Total-heptadioxins



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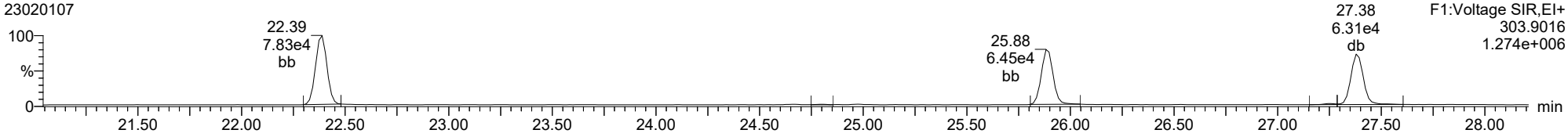
Total-tetrafurans



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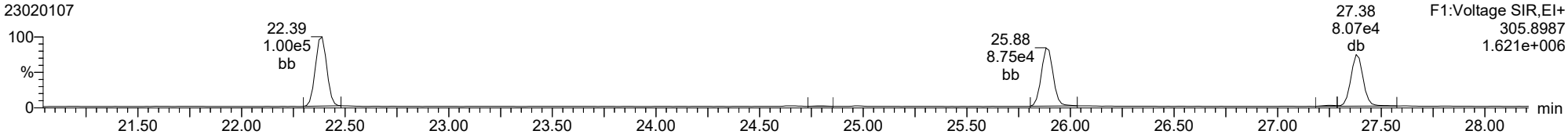
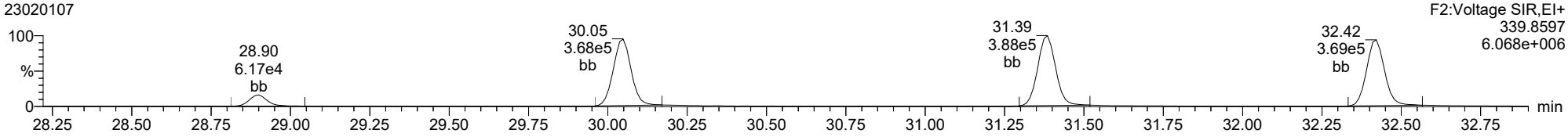
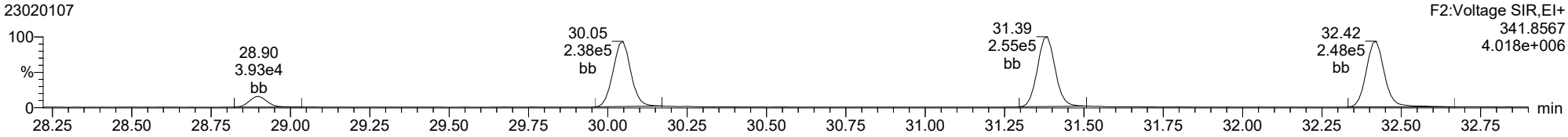


Total-pentafurans



Total-pentafurans



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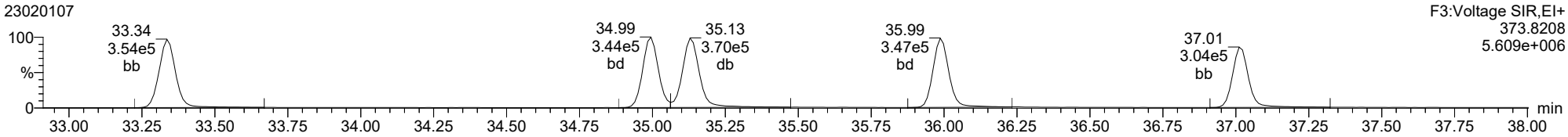
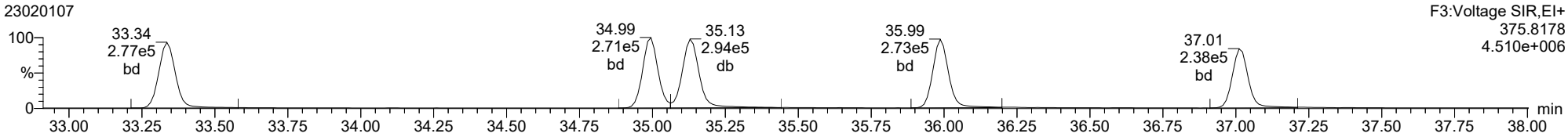
Total-hexafurans



Total-hexafurans



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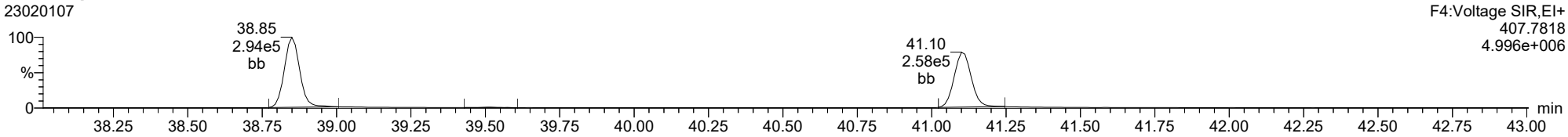

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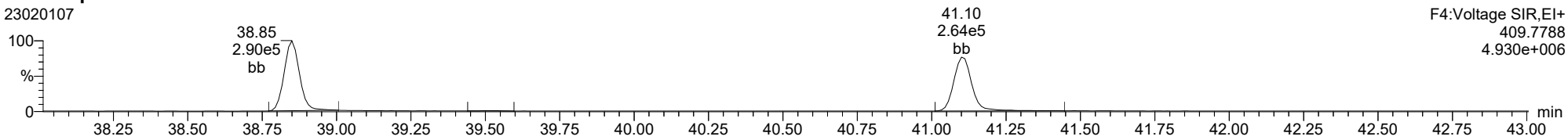

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Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:37:53 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: 03 Feb 2023 10:33:40

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	3.837e5	5.095e5	0.876	0.753	0.770	3306	1852	5.94e6	7.78e6	1796.5	4201.3	NO	bb	bb	39.352
12378-PeCDF	30.037	1.000	2.144e6	1.419e6	0.845	1.511	1.550	3774	3458	3.38e7	2.23e7	8947.1	6442.4	NO	bb	bb	197.212
23478-PeCDF	31.374	1.000	2.253e6	1.479e6	0.911	1.523	1.550	3774	3458	3.50e7	2.30e7	9263.9	6657.7	NO	bb	bb	199.338
123478-HxCDF	34.984	1.000	2.037e6	1.599e6	1.182	1.274	1.240	4016	3299	3.25e7	2.54e7	8086.7	7697.9	NO	dd	dd	201.086
234678-HxCDF	35.987	1.001	2.093e6	1.626e6	1.229	1.288	1.240	4016	3299	3.22e7	2.54e7	8018.2	7699.6	NO	dd	bd	203.397
123678-HxCDF	35.129	1.001	2.269e6	1.771e6	1.248	1.281	1.240	4016	3299	3.41e7	2.66e7	8495.8	8063.9	NO	dd	dd	203.923
123789-HxCDF	37.012	1.001	1.817e6	1.431e6	1.187	1.269	1.240	4016	3299	2.86e7	2.23e7	7125.7	6768.1	NO	dd	bd	199.649
1234678-HpCDF	38.839	1.000	1.816e6	1.772e6	1.204	1.025	1.050	5173	5540	3.02e7	2.97e7	5847.4	5361.2	NO	bb	bb	193.935
1234789-HpCDF	41.100	1.000	1.575e6	1.522e6	1.165	1.034	1.050	5173	5540	2.37e7	2.31e7	4579.3	4164.7	NO	bb	bb	200.336
OCDF	45.357	1.006	2.485e6	2.804e6	1.186	0.886	0.890	4624	3331	3.05e7	3.43e7	6601.2	10303.1	NO	bb	bb	376.199
2378-TCDD	26.532	1.001	3.417e5	4.230e5	1.236	0.808	0.770	1943	1502	5.26e6	6.49e6	2709.1	4323.6	NO	bb	bb	40.022
12378-PeCDD	31.631	1.000	1.695e6	1.077e6	1.087	1.574	1.550	2803	1572	2.73e7	1.72e7	9745.0	10948.2	NO	bb	bb	198.713
123478-HxCDD	36.109	1.001	1.491e6	1.215e6	0.987	1.227	1.240	2230	3671	2.51e7	2.05e7	11249.2	5579.6	NO	bd	bd	204.141
123678-HxCDD	36.221	1.000	1.525e6	1.238e6	1.021	1.232	1.240	2230	3671	2.55e7	2.09e7	11440.8	5702.6	NO	db	db	192.587
123789-HxCDD	36.599	1.011	1.475e6	1.213e6	0.985	1.216	1.240	2230	3671	2.48e7	2.06e7	11134.5	5610.2	NO	bb	bb	198.496
1234678-HpCDD	40.354	1.001	1.416e6	1.361e6	1.253	1.040	1.050	2506	3274	2.22e7	2.13e7	8870.2	6512.5	NO	bb	bb	190.176
OCDD	45.120	1.000	2.302e6	2.608e6	1.103	0.883	0.890	2646	4665	2.90e7	3.29e7	10978.0	7047.3	NO	bb	bb	375.677
13C-2378-TCDF	25.867	1.007	1.141e6	1.450e6	1.768	0.786	0.770	2983	2394	1.77e7	2.25e7	5940.4	9386.6	NO	bb	bb	101.281
13C-12378-PeCDF	30.026	1.168	1.284e6	8.547e5	1.527	1.502	1.550	4680	2502	1.96e7	1.27e7	4184.1	5065.1	NO	bb	bd	96.786
13C-23478-PeCDF	31.363	1.220	1.245e6	8.091e5	1.466	1.539	1.550	4680	2502	1.90e7	1.23e7	4051.1	4925.5	NO	bb	bb	96.841
13C-123478-HxCDF	34.973	0.956	5.210e5	1.009e6	1.054	0.516	0.510	2637	3506	8.67e6	1.67e7	3288.9	4772.6	NO	bd	bd	99.631
13C-123678-HxCDF	35.107	0.960	5.527e5	1.035e6	1.080	0.534	0.510	2637	3506	9.01e6	1.71e7	3417.9	4869.2	NO	db	db	100.816
13C-234678-HxCDF	35.965	0.983	5.043e5	9.836e5	1.014	0.513	0.510	2637	3506	8.34e6	1.63e7	3164.3	4660.4	NO	bb	bb	100.617
13C-123789-HxCDF	36.989	1.011	4.610e5	9.102e5	0.928	0.507	0.510	2637	3506	7.75e6	1.54e7	2939.3	4390.8	NO	bb	bb	101.358
13C-1234678-HpCDF	38.828	1.061	4.731e5	1.063e6	1.036	0.445	0.440	3133	3783	8.09e6	1.82e7	2583.3	4811.1	NO	bb	bb	101.722
13C-1234789-HpCDF	41.089	1.123	4.094e5	9.173e5	0.905	0.446	0.440	3133	3783	6.17e6	1.38e7	1971.0	3639.0	NO	bb	bb	100.563
13C-1234-TCDD	25.700	0.000	6.435e5	8.034e5	1.000	0.801	0.770	2264	5824	1.00e7	1.24e7	4417.3	2128.2	NO	bb	bb	100.000
13C-2378-TCDD	26.502	1.031	6.869e5	8.584e5	1.103	0.800	0.770	2264	5824	1.05e7	1.31e7	4634.7	2257.9	NO	bb	bb	96.836
13C-12378-PeCDD	31.619	1.230	7.945e5	4.894e5	0.914	1.623	1.550	1351	1735	1.23e7	7.56e6	9139.9	4356.9	NO	bb	bb	97.071
13C-123478-HxCDD	36.087	0.986	7.592e5	5.838e5	0.933	1.300	1.240	2349	1779	1.29e7	9.89e6	5485.2	5561.8	NO	bd	bd	98.749
13C-123678-HxCDD	36.210	0.990	7.891e5	6.166e5	0.965	1.280	1.240	2349	1779	1.26e7	9.87e6	5351.9	5549.2	NO	db	db	99.960
13C-1234678-HpCDD	40.332	1.102	6.034e5	5.625e5	0.782	1.073	1.050	2813	2017	9.31e6	8.69e6	3310.2	4307.9	NO	bb	bb	102.265
13C-OCDD	45.101	1.233	1.130e6	1.241e6	0.788	0.911	0.890	2295	1626	1.42e7	1.55e7	6172.7	9561.2	NO	bb	bb	206.289
13C-123789-HxCDD	36.588	0.000	8.190e5	6.388e5	1.000	1.282	1.240	2349	1779	1.32e7	1.04e7	5620.6	5858.2	NO	bb	bb	100.000
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Dataset: T:\Autospec\Processed Data Batch\230201ICIH.qld
Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:37:53 Pacific Standard Time

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	3306	1852								
1289-TCDF					0.858		0.770	3306	1852								
13468-PECDF					1.013		1.550	3731	5783								
12389-PECDF					0.844		1.550	3774	3458								
123468-HXCDF					1.197		1.240	4016	3299								
1368-TCDD					1.084		0.770	1943	1502								
1289-TCDD					0.975		0.770	1943	1502								
12479-PECDD					1.837		1.550	2803	1572								
12389-PECDD					1.252		1.550	2803	1572								
124679-HXCDD					1.033		1.240	2230	3671								
1234679-HPCDD					1.286		1.050	2506	3274								
Total-tetrafurans			3.913e5		0.933			3306		6.07e6							40.082
Total-penta1			0.000e0					3731		0.00e0							
Total-pentafurans			4.421e6		0.866			3774		6.91e7							398.784
Total-hexafurans			8.218e6		1.208			4016		1.27e8							808.248
Total-heptafurans			3.395e6		1.185			5173		5.40e7							394.809
Total-Furans			1.891e7		1.067			3306		2.87e8							2018.122
Total-tetradioxins			3.511e5		1.099			1943		5.38e6							41.245
Total-pentadioxins			1.697e6		1.392			2803		2.73e7							198.842
Total-hexadioxins			4.491e6		1.007			2230		7.54e7							595.224
Total-heptadioxins			1.416e6		1.269			2506		2.22e7							190.176
Total-Dioxins			1.026e7		1.165			1943		1.59e8							1401.163
Total-TEQ			2.917e7					1943		4.47e8							3419.285
FUNCTION1 PFK			4.404e5					580120		1.21e7							
FUNCTION2 PFK			1.273e5					196333		3.80e6							0.000
FUNCTION3 PFK			0.000e0					408061		0.00e0							
FUNCTION4 PFK			2.183e5					275800		6.18e6							
FUNCTION5 PFK			0.000e0					154157		0.00e0							
FUNCTION1 HXCD...			1.662e4					8726		3.10e5							0.000
FUNCTION1 HPCD...			1.579e4					6150		2.65e5							0.000
FUNCTION2 HPCD...			2.593e3					848		4.54e4							0.000
FUNCTION3 OCDPE			1.183e3					745		1.55e4							0.000
FUNCTION4 NCDPE			4.176e2					872		5.06e3							0.000
FUNCTION5 DCDPE			3.248e2					814		4.90e3							0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: 03 Feb 2023 10:33:40

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.88	3.837e5	5.095e5	0.876	0.75	0.77	1796.5	YES	NO	bb	bb	39.352
2	Total-tetrafurans	24.97	2.571e3	3.313e3	0.933	0.78	0.77	11.3	YES	NO	bb	bb	0.243
3	Total-tetrafurans	24.64	3.935e3	5.312e3	0.933	0.74	0.77	18.1	YES	NO	bd	dd	0.383
4	Total-tetrafurans	24.51	1.158e3	1.353e3	0.933	0.86	0.77	9.5	YES	NO	db	dd	0.104

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	31.62	2.192e3	1.347e3	0.866	1.63	1.55	9.8	YES	NO	bb	bd	0.195
2	23478-PeCDF	31.37	2.253e6	1.479e6	0.911	1.52	1.55	9263.9	YES	NO	bb	bb	199.338
3	Total-pentafurans	31.11	2.570e3	1.840e3	0.866	1.40	1.55	11.2	YES	NO	bb	bb	0.243
4	12378-PeCDF	30.04	2.144e6	1.419e6	0.845	1.51	1.55	8947.1	YES	NO	bb	bb	197.212
5	Total-pentafurans	29.67	1.564e3	9.796e2	0.866	1.60	1.55	6.5	YES	NO	bd	bd	0.140
6	Total-pentafurans	32.41	1.819e4	1.189e4	0.866	1.53	1.55	66.2	YES	NO	bb	bb	1.656

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.99	2.093e6	1.626e6	1.229	1.29	1.24	8018.2	YES	NO	dd	bd	203.397
2	123678-HxCDF	35.13	2.269e6	1.771e6	1.248	1.28	1.24	8495.8	YES	NO	dd	dd	203.923
3	123478-HxCDF	34.98	2.037e6	1.599e6	1.182	1.27	1.24	8086.7	YES	NO	dd	dd	201.086
4	Total-hexafurans	33.52	1.932e3	1.561e3	1.208	1.24	1.24	6.5	YES	NO	bb	bb	0.193
5	123789-HxCDF	37.01	1.817e6	1.431e6	1.187	1.27	1.24	7125.7	YES	NO	dd	bd	199.649

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	1.575e6	1.522e6	1.165	1.03	1.05	4579.3	YES	NO	bb	bb	200.336
2	Total-heptafurans	39.51	4.373e3	4.751e3	1.185	0.92	1.05	13.2	YES	NO	bb	bb	0.538
3	1234678-HpCDF	38.84	1.816e6	1.772e6	1.204	1.02	1.05	5847.4	YES	NO	bb	bb	193.935

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.88	3.837e5	5.095e5	0.876	0.75	0.77	1796.5	YES	NO	bb	bb	39.352
2	Total-tetrafurans	24.97	2.571e3	3.313e3	0.933	0.78	0.77	11.3	YES	NO	bb	bb	0.243
3	Total-tetrafurans	24.64	3.935e3	5.312e3	0.933	0.74	0.77	18.1	YES	NO	bd	dd	0.383
4	Total-tetrafurans	24.51	1.158e3	1.353e3	0.933	0.86	0.77	9.5	YES	NO	db	dd	0.104
5	Total-pentafurans	31.62	2.192e3	1.347e3	0.866	1.63	1.55	9.8	YES	NO	bb	bd	0.195
6	23478-PeCDF	31.37	2.253e6	1.479e6	0.911	1.52	1.55	9263.9	YES	NO	bb	bb	199.338
7	Total-pentafurans	31.11	2.570e3	1.840e3	0.866	1.40	1.55	11.2	YES	NO	bb	bb	0.243
8	12378-PeCDF	30.04	2.144e6	1.419e6	0.845	1.51	1.55	8947.1	YES	NO	bb	bb	197.212
9	Total-pentafurans	29.67	1.564e3	9.796e2	0.866	1.60	1.55	6.5	YES	NO	bd	bd	0.140
10	Total-pentafurans	32.41	1.819e4	1.189e4	0.866	1.53	1.55	66.2	YES	NO	bb	bb	1.656
11	234678-HxCDF	35.99	2.093e6	1.626e6	1.229	1.29	1.24	8018.2	YES	NO	dd	bd	203.397
12	123678-HxCDF	35.13	2.269e6	1.771e6	1.248	1.28	1.24	8495.8	YES	NO	dd	dd	203.923
13	123478-HxCDF	34.98	2.037e6	1.599e6	1.182	1.27	1.24	8086.7	YES	NO	dd	dd	201.086
14	Total-hexafurans	33.52	1.932e3	1.561e3	1.208	1.24	1.24	6.5	YES	NO	bb	bb	0.193
15	123789-HxCDF	37.01	1.817e6	1.431e6	1.187	1.27	1.24	7125.7	YES	NO	dd	bd	199.649
16	1234789-HpCDF	41.10	1.575e6	1.522e6	1.165	1.03	1.05	4579.3	YES	NO	bb	bb	200.336
17	Total-heptafurans	39.51	4.373e3	4.751e3	1.185	0.92	1.05	13.2	YES	NO	bb	bb	0.538
18	1234678-HpCDF	38.84	1.816e6	1.772e6	1.204	1.02	1.05	5847.4	YES	NO	bb	bb	193.935
19	OCDF	45.36	2.485e6	2.804e6	1.186	0.89	0.89	6601.2	YES	NO	bb	bb	376.199

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	3.417e5	4.230e5	1.236	0.81	0.77	2709.1	YES	NO	bb	bb	40.022
2	Total-tetradioxins	26.14	8.070e3	9.722e3	1.099	0.83	0.77	49.8	YES	NO	bb	bb	1.048
3	Total-tetradioxins	25.38	3.531e2	4.421e2	1.099	0.80	0.77	2.4	NO	NO	bb	bb	0.047
4	Total-tetradioxins	26.96	1.013e3	1.157e3	1.099	0.88	0.77	7.2	YES	NO	bd	bd	0.128

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.63	1.695e6	1.077e6	1.087	1.57	1.55	9745.0	YES	NO	bb	bb	198.713
2	Total-pentadioxins	30.04	1.464e3	8.371e2	1.392	1.75	1.55	8.8	YES	NO	bb	bb	0.129

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.60	1.475e6	1.213e6	0.985	1.22	1.24	11134.5	YES	NO	bb	bb	198.496
2	123678-HxCDD	36.22	1.525e6	1.238e6	1.021	1.23	1.24	11440.8	YES	NO	db	db	192.587
3	123478-HxCDD	36.11	1.491e6	1.215e6	0.987	1.23	1.24	11249.2	YES	NO	bd	bd	204.141

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	1.416e6	1.361e6	1.253	1.04	1.05	8870.2	YES	NO	bb	bb	190.176

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	3.417e5	4.230e5	1.236	0.81	0.77	2709.1	YES	NO	bb	bb	40.022
2	Total-tetradioxins	26.14	8.070e3	9.722e3	1.099	0.83	0.77	49.8	YES	NO	bb	bb	1.048
3	Total-tetradioxins	25.38	3.531e2	4.421e2	1.099	0.80	0.77	2.4	NO	NO	bb	bb	0.047
4	Total-tetradioxins	26.96	1.013e3	1.157e3	1.099	0.88	0.77	7.2	YES	NO	bd	bd	0.128
5	12378-PeCDD	31.63	1.695e6	1.077e6	1.087	1.57	1.55	9745.0	YES	NO	bb	bb	198.713
6	Total-pentadioxins	30.04	1.464e3	8.371e2	1.392	1.75	1.55	8.8	YES	NO	bb	bb	0.129
7	123789-HxCDD	36.60	1.475e6	1.213e6	0.985	1.22	1.24	11134.5	YES	NO	bb	bb	198.496
8	123678-HxCDD	36.22	1.525e6	1.238e6	1.021	1.23	1.24	11440.8	YES	NO	db	db	192.587
9	123478-HxCDD	36.11	1.491e6	1.215e6	0.987	1.23	1.24	11249.2	YES	NO	bd	bd	204.141
10	1234678-HpCDD	40.35	1.416e6	1.361e6	1.253	1.04	1.05	8870.2	YES	NO	bb	bb	190.176
11	OCDD	45.12	2.302e6	2.608e6	1.103	0.88	0.89	10978.0	YES	NO	bb	bb	375.677

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.88	3.837e5	5.095e5	0.876	0.75	0.77	1796.5	YES	NO	bb	bb	39.352
2	Total-tetrafurans	24.97	2.571e3	3.313e3	0.933	0.78	0.77	11.3	YES	NO	bb	bb	0.243
3	Total-tetrafurans	24.64	3.935e3	5.312e3	0.933	0.74	0.77	18.1	YES	NO	bd	dd	0.383
4	Total-tetrafurans	24.51	1.158e3	1.353e3	0.933	0.86	0.77	9.5	YES	NO	db	dd	0.104
5	Total-pentafurans	31.62	2.192e3	1.347e3	0.866	1.63	1.55	9.8	YES	NO	bb	bd	0.195
6	23478-PeCDF	31.37	2.253e6	1.479e6	0.911	1.52	1.55	9263.9	YES	NO	bb	bb	199.338
7	Total-pentafurans	31.11	2.570e3	1.840e3	0.866	1.40	1.55	11.2	YES	NO	bb	bb	0.243
8	12378-PeCDF	30.04	2.144e6	1.419e6	0.845	1.51	1.55	8947.1	YES	NO	bb	bb	197.212
9	Total-pentafurans	29.67	1.564e3	9.796e2	0.866	1.60	1.55	6.5	YES	NO	bd	bd	0.140
10	Total-pentafurans	32.41	1.819e4	1.189e4	0.866	1.53	1.55	66.2	YES	NO	bb	bb	1.656
11	234678-HxCDF	35.99	2.093e6	1.626e6	1.229	1.29	1.24	8018.2	YES	NO	dd	bd	203.397
12	123678-HxCDF	35.13	2.269e6	1.771e6	1.248	1.28	1.24	8495.8	YES	NO	dd	dd	203.923
13	123478-HxCDF	34.98	2.037e6	1.599e6	1.182	1.27	1.24	8086.7	YES	NO	dd	dd	201.086
14	Total-hexafurans	33.52	1.932e3	1.561e3	1.208	1.24	1.24	6.5	YES	NO	bb	bb	0.193
15	123789-HxCDF	37.01	1.817e6	1.431e6	1.187	1.27	1.24	7125.7	YES	NO	dd	bd	199.649
16	1234789-HpCDF	41.10	1.575e6	1.522e6	1.165	1.03	1.05	4579.3	YES	NO	bb	bb	200.336
17	Total-heptafurans	39.51	4.373e3	4.751e3	1.185	0.92	1.05	13.2	YES	NO	bb	bb	0.538
18	1234678-HpCDF	38.84	1.816e6	1.772e6	1.204	1.02	1.05	5847.4	YES	NO	bb	bb	193.935
19	OCDF	45.36	2.485e6	2.804e6	1.186	0.89	0.89	6601.2	YES	NO	bb	bb	376.199
20	2378-TCDD	26.53	3.417e5	4.230e5	1.236	0.81	0.77	2709.1	YES	NO	bb	bb	40.022
21	Total-tetradioxins	26.14	8.070e3	9.722e3	1.099	0.83	0.77	49.8	YES	NO	bb	bb	1.048
22	Total-tetradioxins	25.38	3.531e2	4.421e2	1.099	0.80	0.77	2.4	NO	NO	bb	bb	0.047
23	Total-tetradioxins	26.96	1.013e3	1.157e3	1.099	0.88	0.77	7.2	YES	NO	bd	bd	0.128
24	12378-PeCDD	31.63	1.695e6	1.077e6	1.087	1.57	1.55	9745.0	YES	NO	bb	bb	198.713
25	Total-pentadioxins	30.04	1.464e3	8.371e2	1.392	1.75	1.55	8.8	YES	NO	bb	bb	0.129
26	123789-HxCDD	36.60	1.475e6	1.213e6	0.985	1.22	1.24	11134.5	YES	NO	bb	bb	198.496
27	123678-HxCDD	36.22	1.525e6	1.238e6	1.021	1.23	1.24	11440.8	YES	NO	db	db	192.587
28	123478-HxCDD	36.11	1.491e6	1.215e6	0.987	1.23	1.24	11249.2	YES	NO	bd	bd	204.141
29	1234678-HpCDD	40.35	1.416e6	1.361e6	1.253	1.04	1.05	8870.2	YES	NO	bb	bb	190.176
30	OCDD	45.12	2.302e6	2.608e6	1.103	0.88	0.89	10978.0	YES	NO	bb	bb	375.677

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	24.96	2.020e4					1.1	NO		bb		
2	FUNCTION1 PFK	24.40	2.455e4					1.2	NO		bb		
3	FUNCTION1 PFK	23.70	1.570e4					0.9	NO		bb		
4	FUNCTION1 PFK	22.21	1.520e4					0.8	NO		bb		
5	FUNCTION1 PFK	21.98	2.815e4					1.2	NO		bb		
6	FUNCTION1 PFK	21.62	2.203e4					0.8	NO		bb		
7	FUNCTION1 PFK	21.38	1.821e4					1.0	NO		bb		
8	FUNCTION1 PFK	28.09	4.216e4					1.7	NO		bb		
9	FUNCTION1 PFK	27.48	1.001e4					0.6	NO		bb		
10	FUNCTION1 PFK	27.36	2.341e4					1.3	NO		bb		
11	FUNCTION1 PFK	27.09	4.217e3					0.5	NO		bb		
12	FUNCTION1 PFK	26.77	7.075e3					0.7	NO		bb		
13	FUNCTION1 PFK	26.65	1.537e4					1.0	NO		bb		
14	FUNCTION1 PFK	26.53	2.228e4					1.3	NO		bb		
15	FUNCTION1 PFK	26.06	1.292e4					0.8	NO		bb		
16	FUNCTION1 PFK	25.75	9.216e3					0.7	NO		bb		
17	FUNCTION1 PFK	25.69	2.942e4					1.5	NO		bb		
18	FUNCTION1 PFK	25.47	3.380e4					1.3	NO		bb		
19	FUNCTION1 PFK	25.35	5.518e4					1.2	NO		db		
20	FUNCTION1 PFK	25.23	3.130e4					1.5	NO		bd		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.88	2.296e4					1.8	NO		bb		0.000
2	FUNCTION2 PFK	28.30	1.717e4					1.6	NO		bb		0.000
3	FUNCTION2 PFK	32.49	5.254e3					1.3	NO		bb		0.000
4	FUNCTION2 PFK	32.37	7.309e3					1.1	NO		bb		0.000
5	FUNCTION2 PFK	32.29	1.359e3					0.6	NO		bb		0.000
6	FUNCTION2 PFK	32.17	6.182e3					1.2	NO		bb		0.000
7	FUNCTION2 PFK	31.90	1.405e4					1.8	NO		bb		0.000
8	FUNCTION2 PFK	31.55	3.011e3					0.9	NO		bb		0.000
9	FUNCTION2 PFK	31.41	1.210e4					1.2	NO		bb		0.000
10	FUNCTION2 PFK	30.57	3.830e3					0.9	NO		bb		0.000
11	FUNCTION2 PFK	30.45	4.598e3					1.0	NO		bb		0.000
12	FUNCTION2 PFK	29.87	5.333e3					1.1	NO		bb		0.000
13	FUNCTION2 PFK	29.60	5.195e3					1.1	NO		db		0.000
14	FUNCTION2 PFK	29.56	5.154e3					1.1	NO		bd		0.000
15	FUNCTION2 PFK	29.50	7.364e3					1.4	NO		bb		0.000
16	FUNCTION2 PFK	29.17	6.453e3					1.3	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.21	5.273e3					0.9	NO		bb		
2	FUNCTION4 PFK	40.14	5.827e3					1.0	NO		bb		
3	FUNCTION4 PFK	40.00	4.667e3					0.8	NO		bb		
4	FUNCTION4 PFK	39.82	1.112e3					0.4	NO		bb		
5	FUNCTION4 PFK	39.74	4.984e3					0.8	NO		bb		
6	FUNCTION4 PFK	39.65	3.641e4					1.9	NO		db		
7	FUNCTION4 PFK	39.60	1.243e4					1.6	NO		bd		
8	FUNCTION4 PFK	39.21	6.478e3					1.0	NO		bb		
9	FUNCTION4 PFK	38.98	1.375e3					0.4	NO		bb		
10	FUNCTION4 PFK	38.83	5.023e3					0.8	NO		bb		
11	FUNCTION4 PFK	38.78	4.916e3					0.9	NO		bb		
12	FUNCTION4 PFK	38.68	8.802e3					1.2	NO		bb		
13	FUNCTION4 PFK	38.54	1.096e4					1.2	NO		bb		
14	FUNCTION4 PFK	38.35	1.188e4					1.5	NO		db		
15	FUNCTION4 PFK	38.32	9.581e3					1.3	NO		bd		
16	FUNCTION4 PFK	38.09	5.192e4					1.9	NO		bb		
17	FUNCTION4 PFK	42.95	1.120e3					0.4	NO		bb		
18	FUNCTION4 PFK	42.68	3.847e3					0.6	NO		bb		
19	FUNCTION4 PFK	42.38	1.500e4					1.7	NO		bb		
20	FUNCTION4 PFK	41.06	1.232e4					1.2	NO		bb		
21	FUNCTION4 PFK	40.81	4.336e3					0.7	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.09	1.365e2					0.3	NO		bb		0.000
2	FUNCTION1 HXCD...	25.88	7.559e1					0.2	NO		bb		0.000
3	FUNCTION1 HXCD...	25.69	1.535e2					0.2	NO		bb		0.000
4	FUNCTION1 HXCD...	25.38	9.009e1					0.2	NO		bb		0.000
5	FUNCTION1 HXCD...	24.76	1.387e2					0.2	NO		bb		0.000
6	FUNCTION1 HXCD...	24.49	2.087e3					4.8	YES		db		0.000
7	FUNCTION1 HXCD...	24.42	1.113e3					3.5	YES		bd		0.000
8	FUNCTION1 HXCD...	24.07	1.214e2					0.2	NO		bb		0.000
9	FUNCTION1 HXCD...	22.93	9.005e1					0.3	NO		bb		0.000
10	FUNCTION1 HXCD...	28.03	7.580e1					0.2	NO		bb		0.000
11	FUNCTION1 HXCD...	27.80	7.466e1					0.2	NO		bb		0.000
12	FUNCTION1 HXCD...	27.64	9.719e1					0.2	NO		bb		0.000
13	FUNCTION1 HXCD...	27.11	4.735e3					11.6	YES		db		0.000
14	FUNCTION1 HXCD...	27.06	1.264e3					2.6	NO		dd		0.000
15	FUNCTION1 HXCD...	26.99	2.557e3					3.1	YES		dd		0.000
16	FUNCTION1 HXCD...	26.82	1.150e3					2.1	NO		dd		0.000
17	FUNCTION1 HXCD...	26.76	1.090e3					2.6	NO		dd		0.000
18	FUNCTION1 HXCD...	26.68	5.202e2					1.1	NO		dd		0.000
19	FUNCTION1 HXCD...	26.59	4.632e2					0.7	NO		dd		0.000
20	FUNCTION1 HXCD...	26.50	3.837e2					0.7	NO		dd		0.000
21	FUNCTION1 HXCD...	26.44	7.925e1					0.2	NO		bd		0.000
22	FUNCTION1 HXCD...	26.26	1.202e2					0.3	NO		bb		0.000

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ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	21.53	8.754e1					0.3	NO		dd		0.000
2	FUNCTION1 HPCD...	21.39	1.338e2					0.2	NO		bd		0.000
3	FUNCTION1 HPCD...	27.06	1.227e3					3.5	YES		dd		0.000
4	FUNCTION1 HPCD...	26.96	2.312e3					4.3	YES		dd		0.000
5	FUNCTION1 HPCD...	26.83	1.175e3					2.8	NO		dd		0.000
6	FUNCTION1 HPCD...	26.76	1.583e3					4.1	YES		dd		0.000
7	FUNCTION1 HPCD...	26.67	5.135e2					1.6	NO		dd		0.000
8	FUNCTION1 HPCD...	26.58	6.861e2					1.1	NO		dd		0.000
9	FUNCTION1 HPCD...	26.50	1.748e2					0.8	NO		dd		0.000
10	FUNCTION1 HPCD...	26.44	2.373e2					0.4	NO		dd		0.000
11	FUNCTION1 HPCD...	26.26	1.300e2					0.4	NO		bd		0.000
12	FUNCTION1 HPCD...	25.91	1.988e2					0.2	NO		bb		0.000
13	FUNCTION1 HPCD...	25.72	1.012e2					0.3	NO		bb		0.000
14	FUNCTION1 HPCD...	25.53	1.466e2					0.3	NO		db		0.000
15	FUNCTION1 HPCD...	25.32	1.918e2					0.4	NO		bd		0.000
16	FUNCTION1 HPCD...	24.51	2.090e3					6.7	YES		db		0.000
17	FUNCTION1 HPCD...	24.42	8.854e2					3.8	YES		bd		0.000
18	FUNCTION1 HPCD...	21.60	9.175e1					0.3	NO		db		0.000
19	FUNCTION1 HPCD...	27.77	9.425e1					0.4	NO		bb		0.000
20	FUNCTION1 HPCD...	27.65	7.376e1					0.3	NO		db		0.000
21	FUNCTION1 HPCD...	27.53	1.152e2					0.4	NO		bd		0.000
22	FUNCTION1 HPCD...	27.12	3.540e3					10.6	YES		db		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.63	1.971e2					4.5	YES		bb		0.000
2	FUNCTION2 HPCD...	31.26	2.238e3					45.1	YES		bb		0.000
3	FUNCTION2 HPCD...	29.60	1.581e2					4.1	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.60	5.924e2					8.6	YES		bb		0.000
2	FUNCTION3 OCDPE	36.21	3.178e2					6.7	YES		db		0.000
3	FUNCTION3 OCDPE	36.10	2.730e2					5.6	YES		bd		0.000

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.40	3.196e2					3.7	YES		bb		0.000
2	FUNCTION4 NCDPE	38.52	9.797e1					2.1	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.14	3.248e2					6.0	YES		bb		0.000

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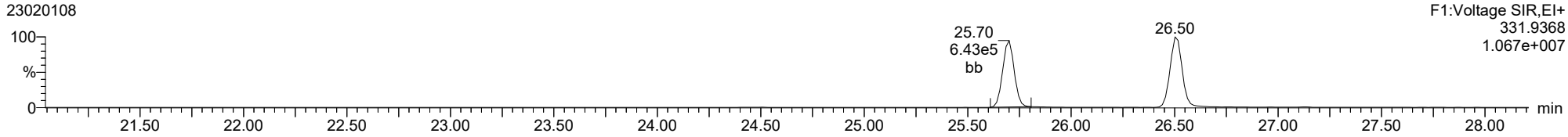
Calibration: 03 Feb 2023 10:33:40

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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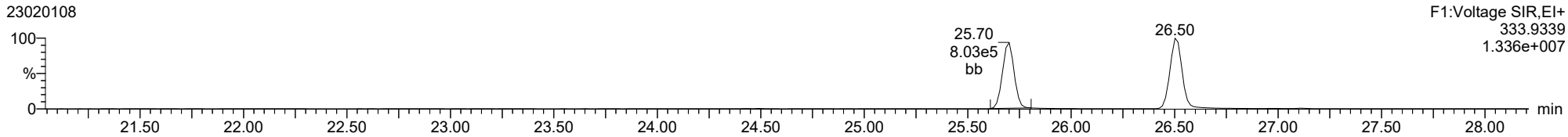
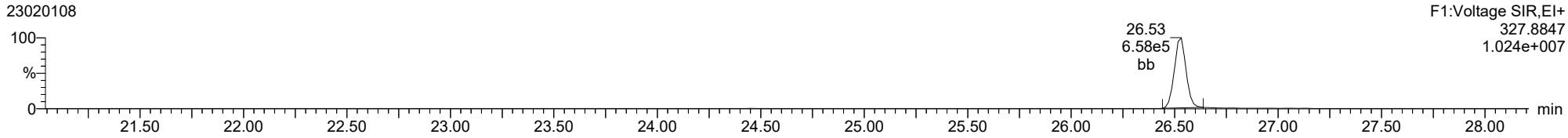


37CL-2378-TCDD



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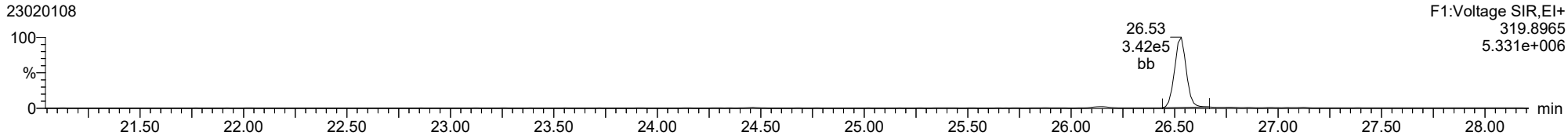

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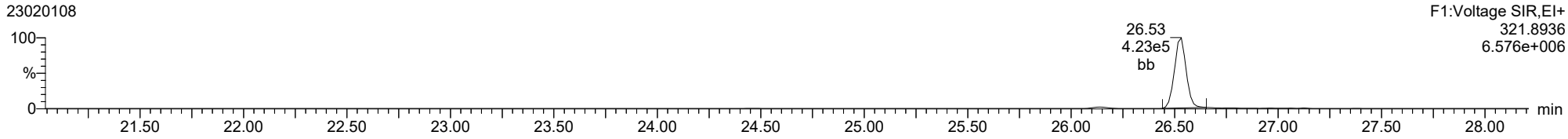

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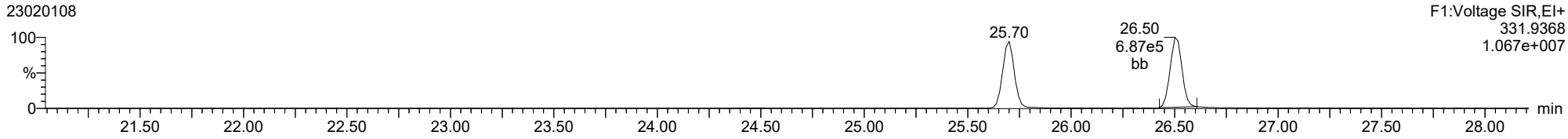

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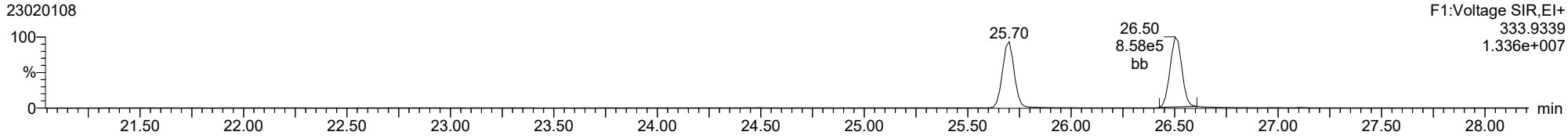

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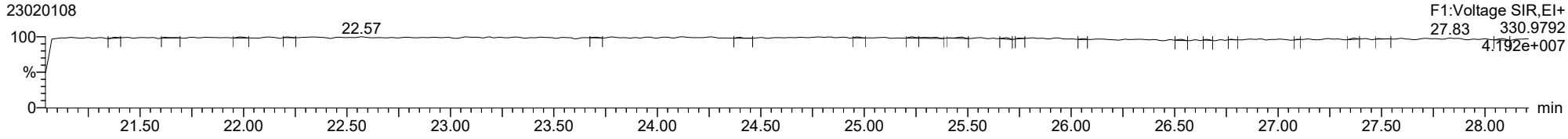

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

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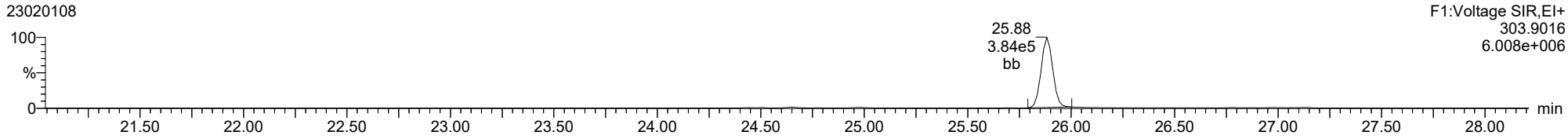

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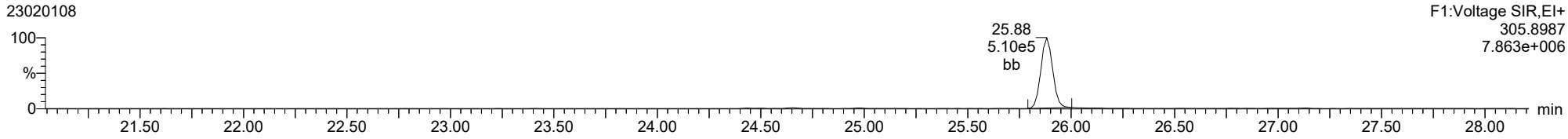

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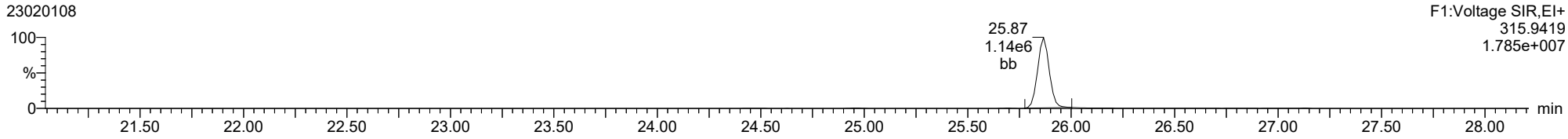

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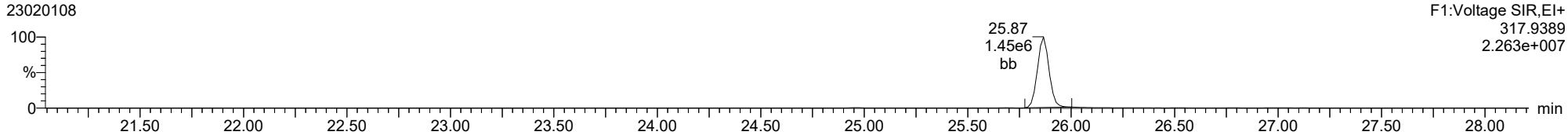

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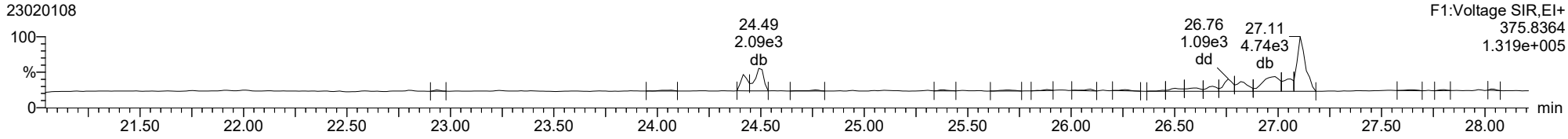

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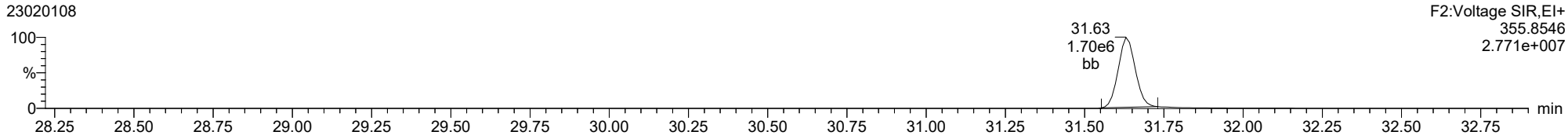
12378-PeCDD



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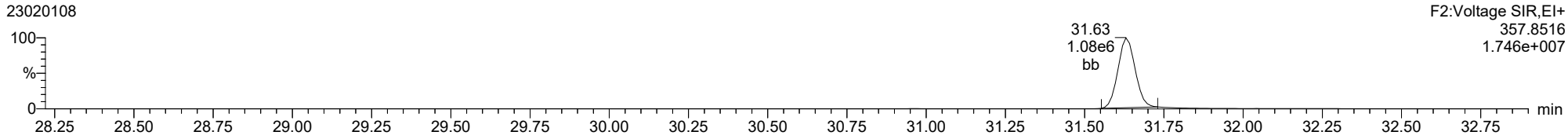

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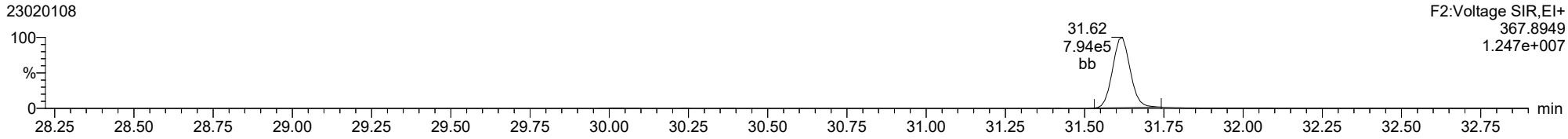

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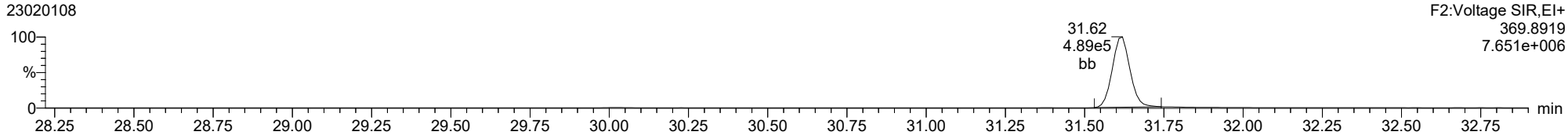

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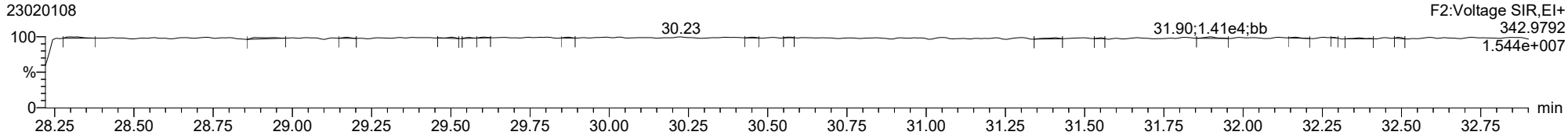

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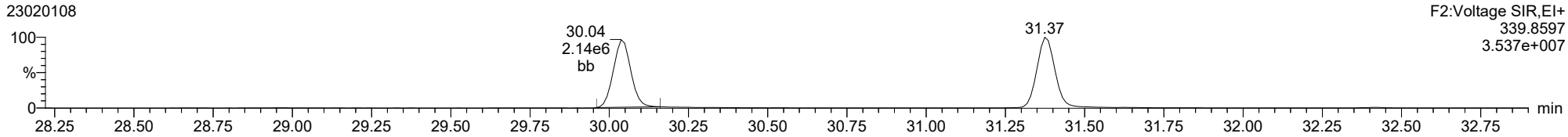

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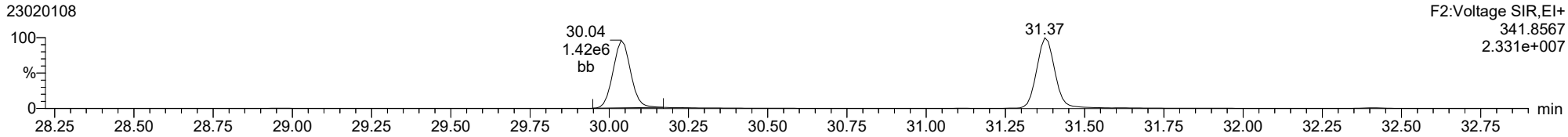

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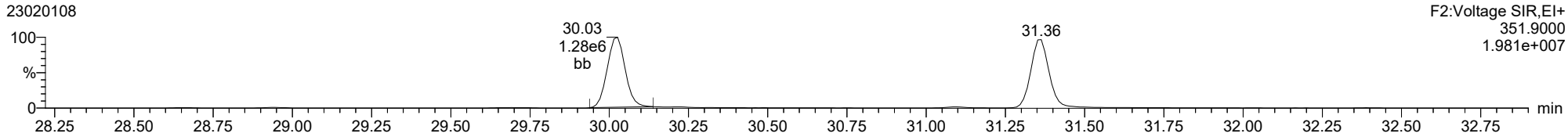

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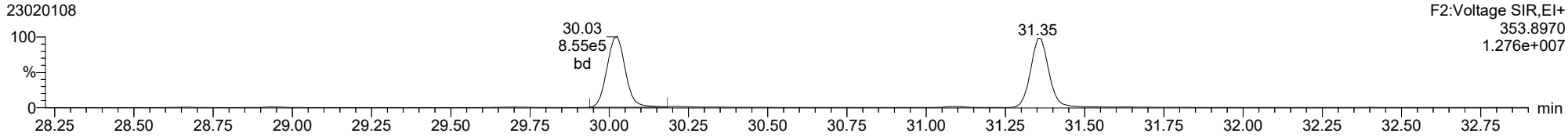

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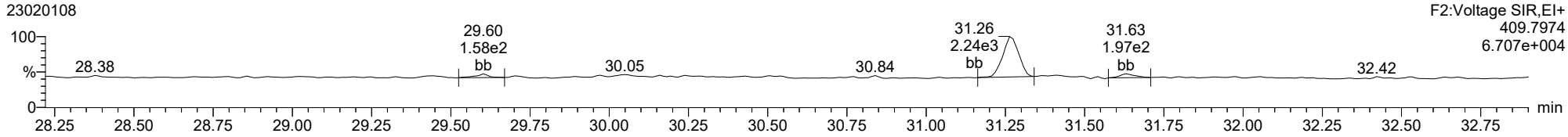

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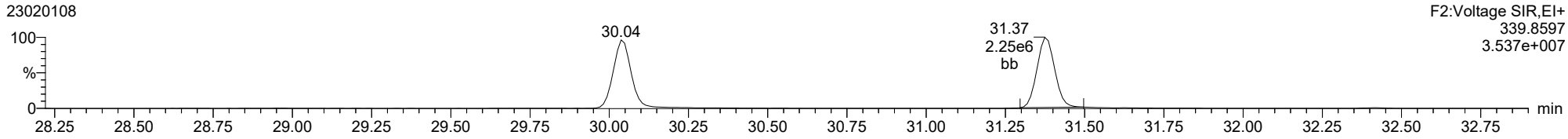

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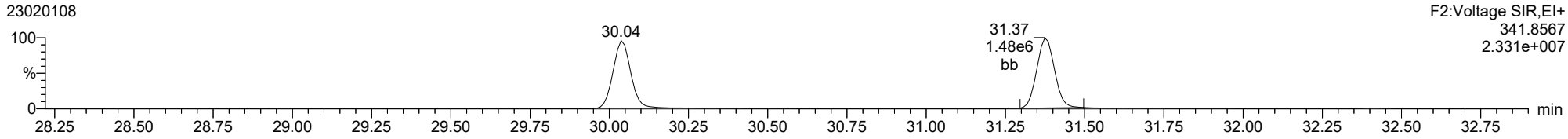

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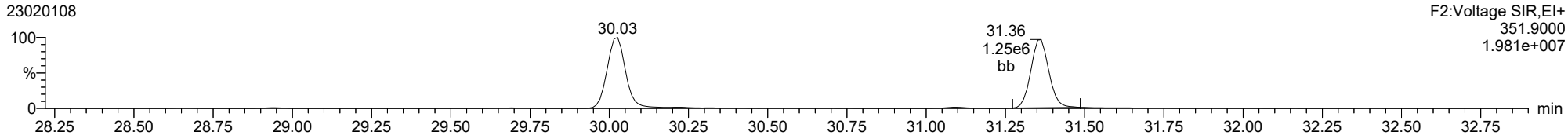

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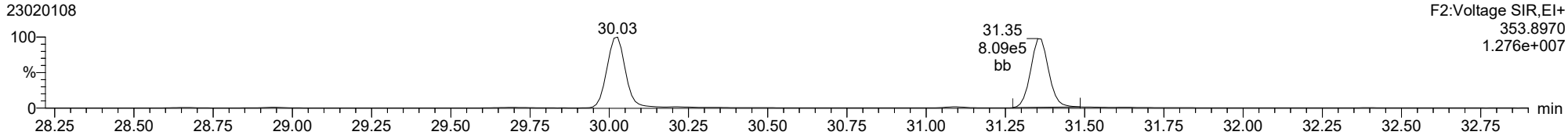

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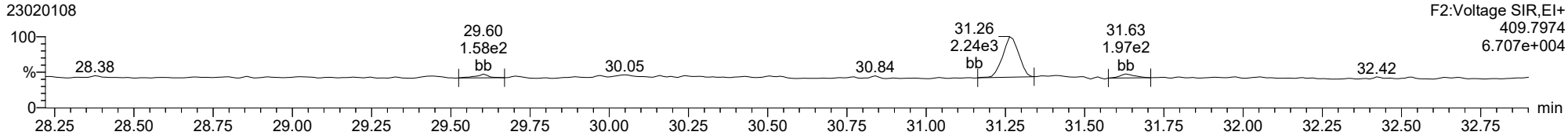

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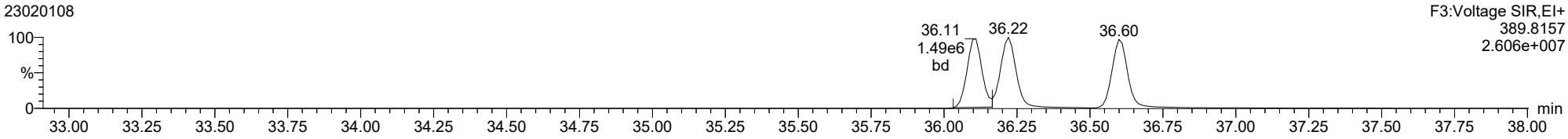

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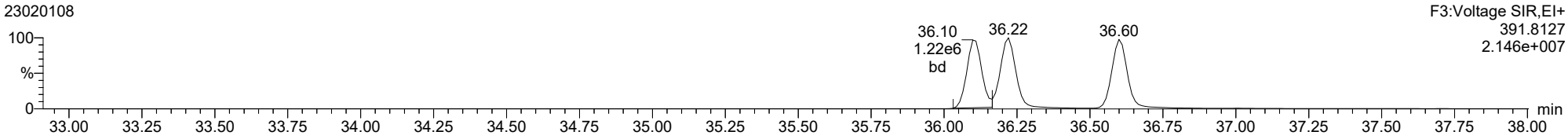

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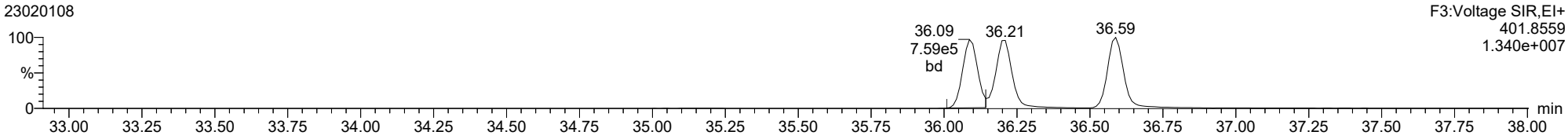

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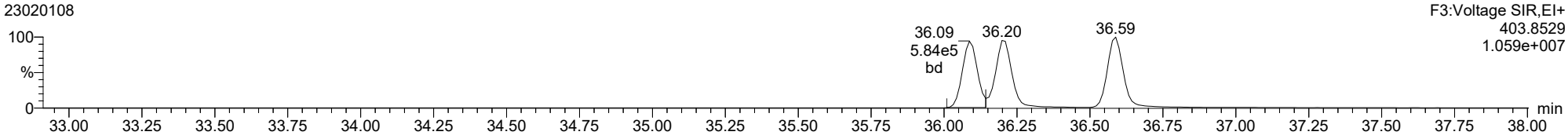

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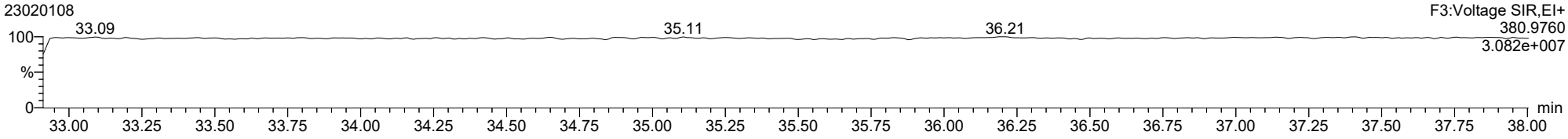

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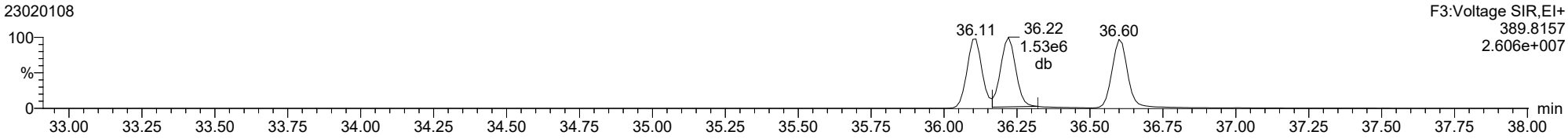

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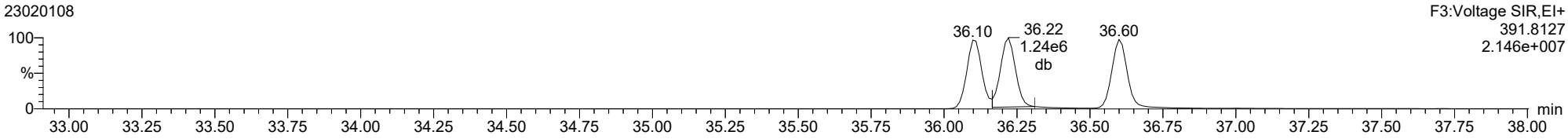

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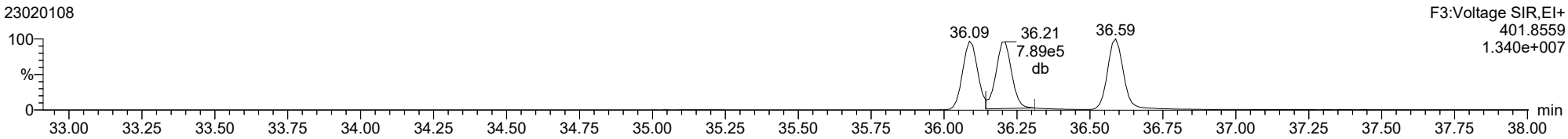

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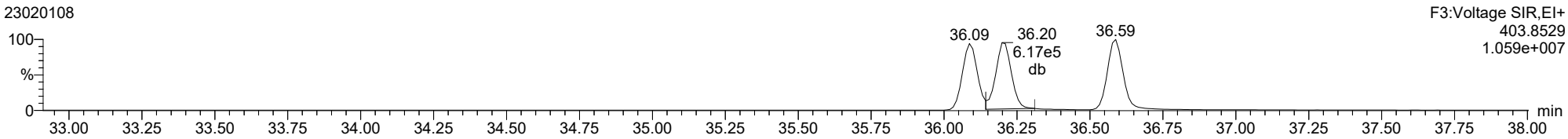

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Printed: Friday, February 03, 2023 10:37:53 Pacific Standard Time

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

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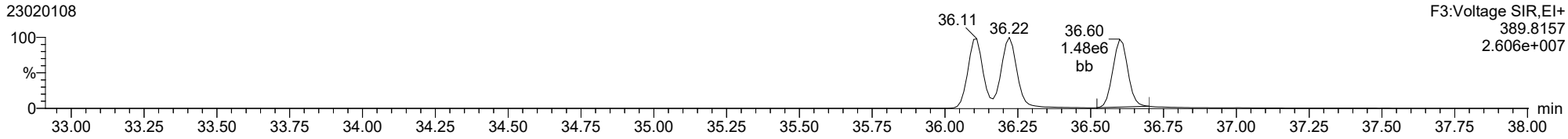

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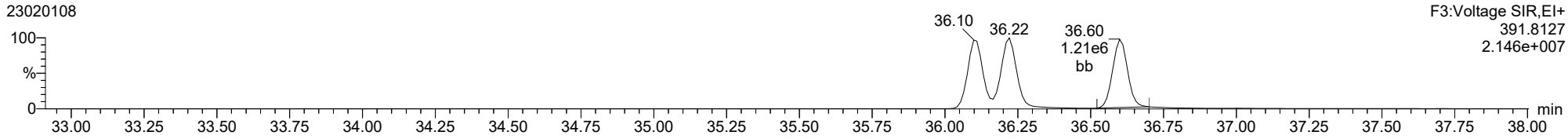

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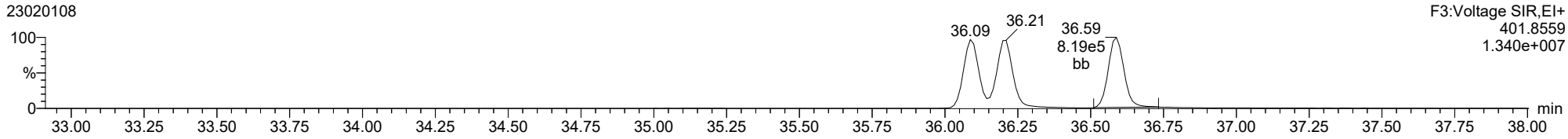

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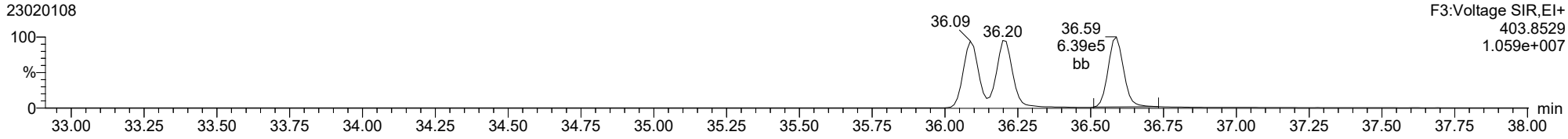

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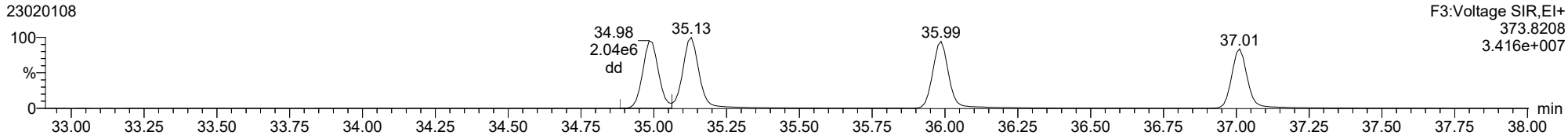

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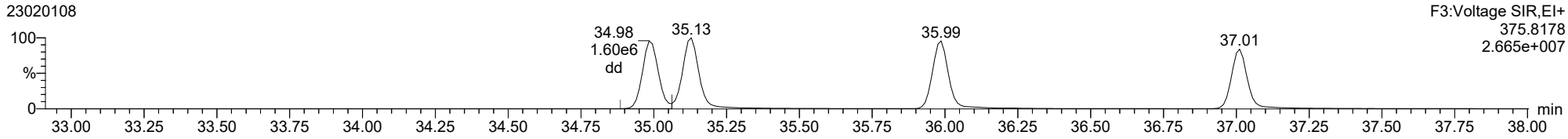

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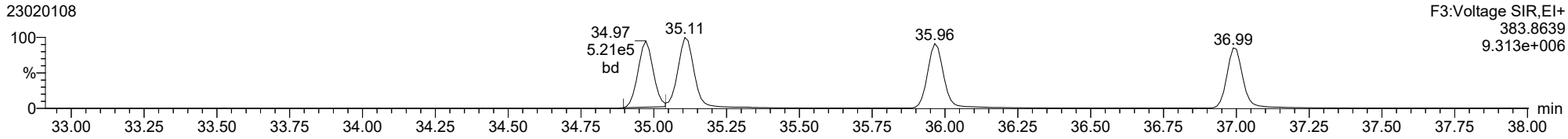

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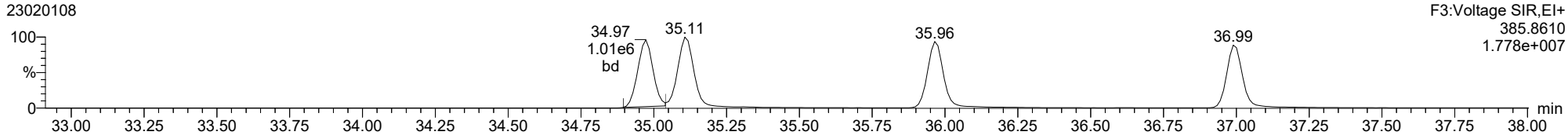

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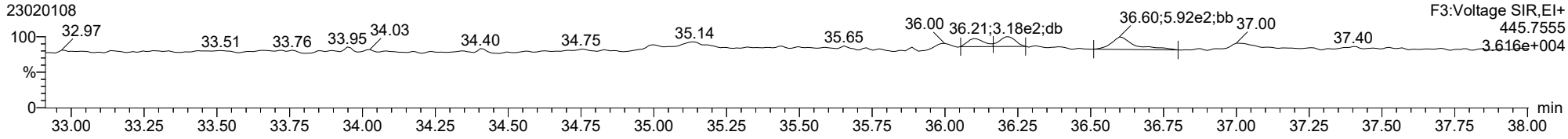

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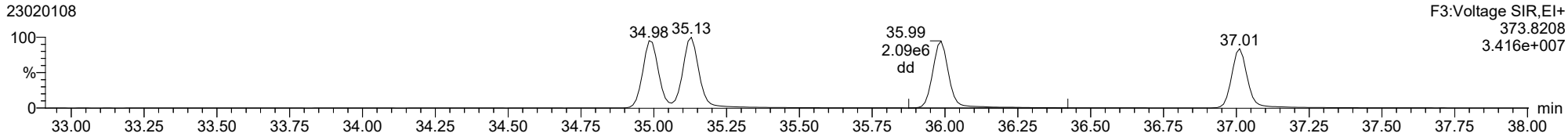

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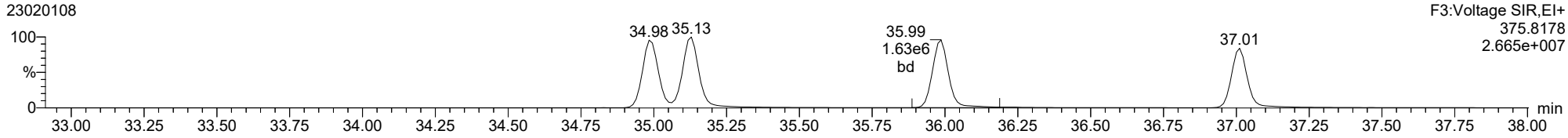

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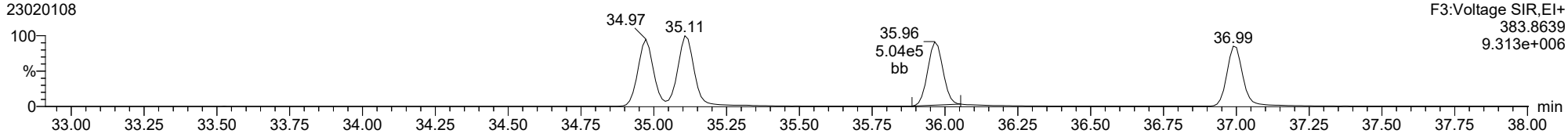

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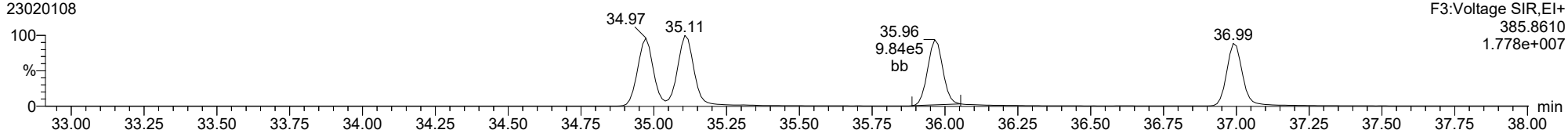

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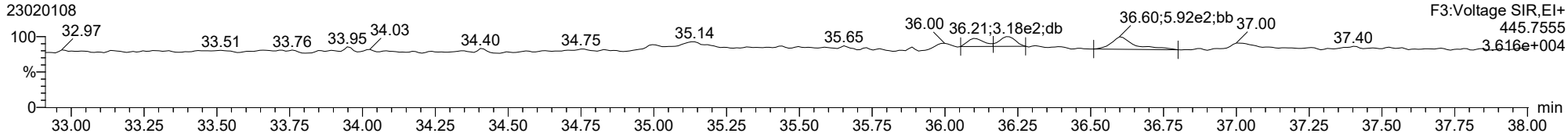

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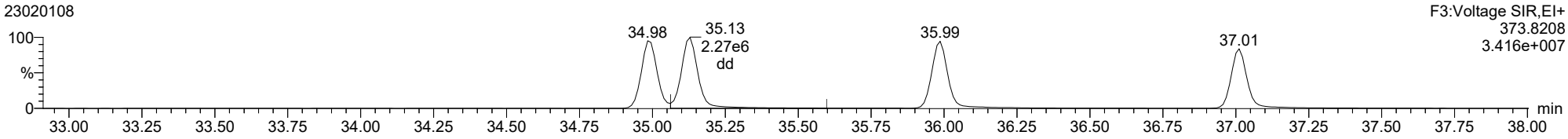

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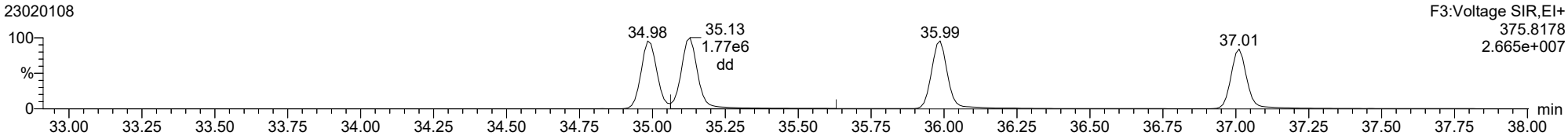

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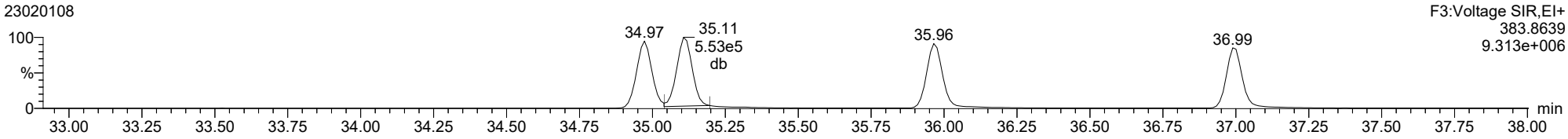

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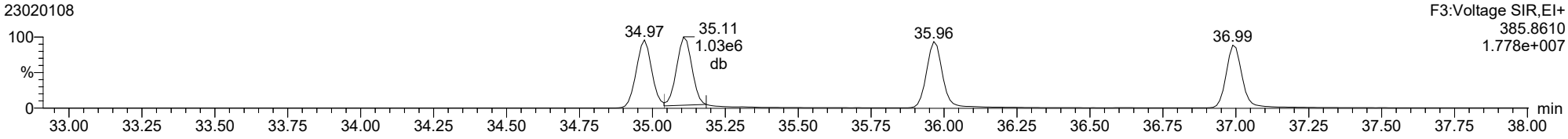

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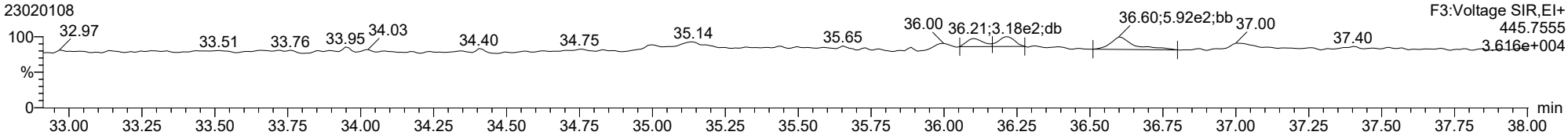

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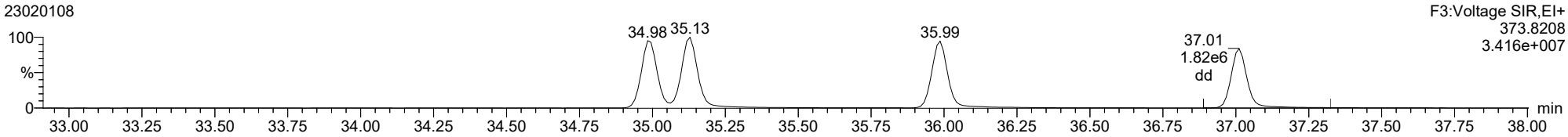

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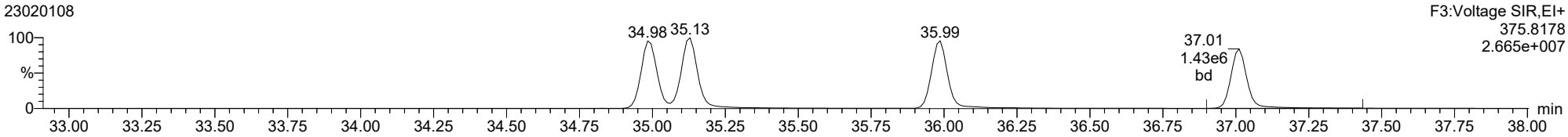

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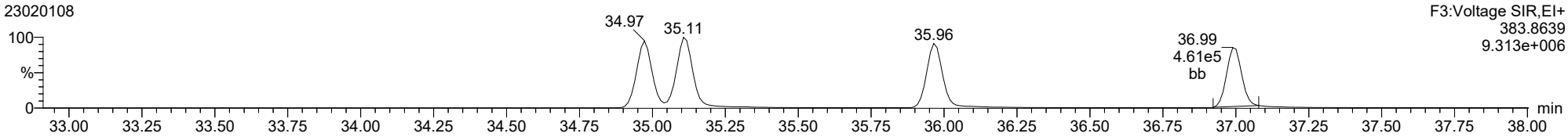

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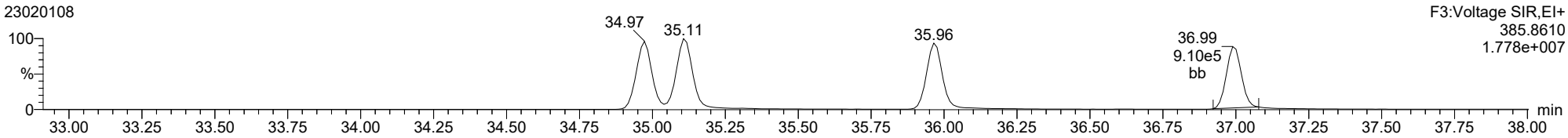

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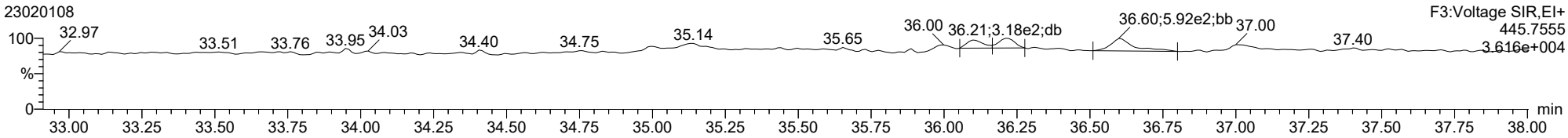

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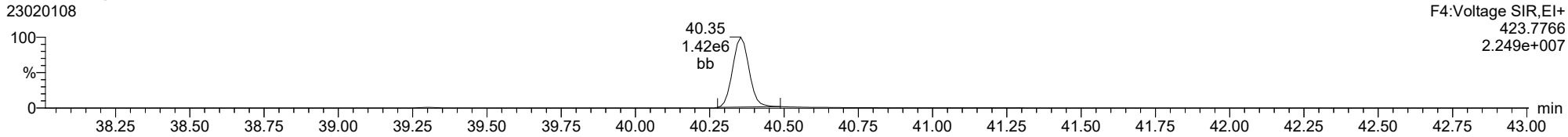

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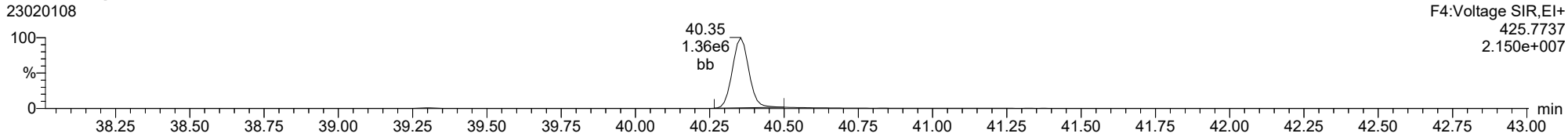

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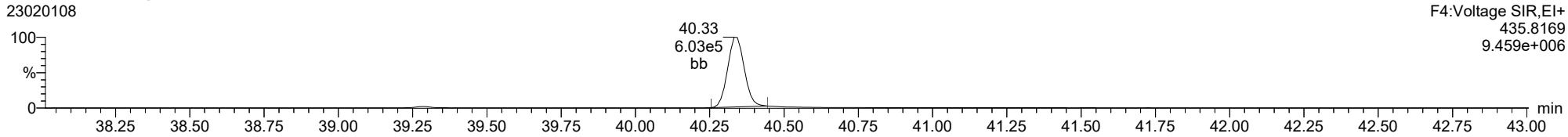

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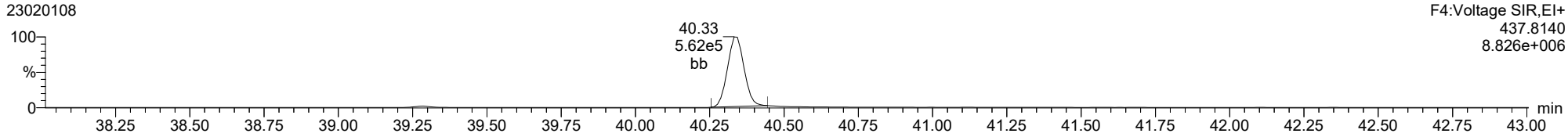
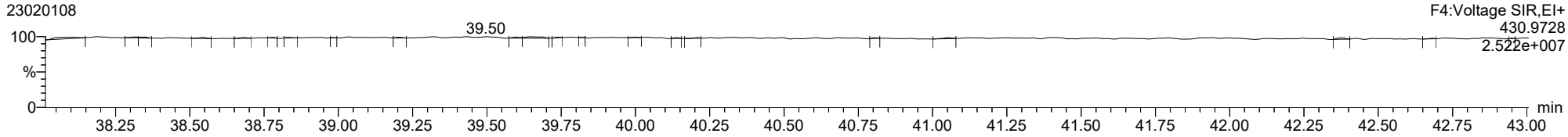


FUNCTION4 PFK



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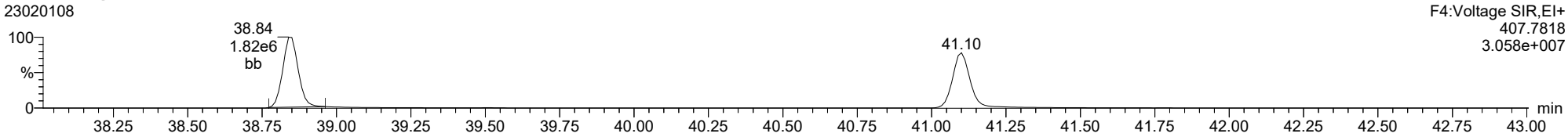

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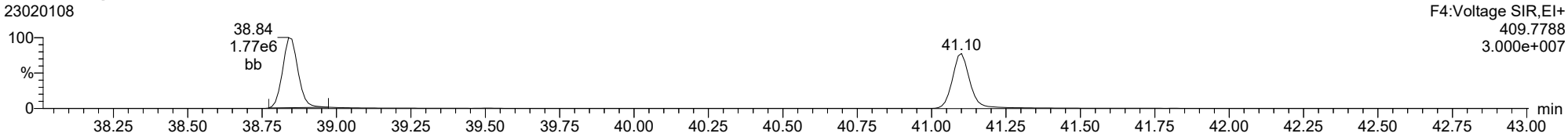

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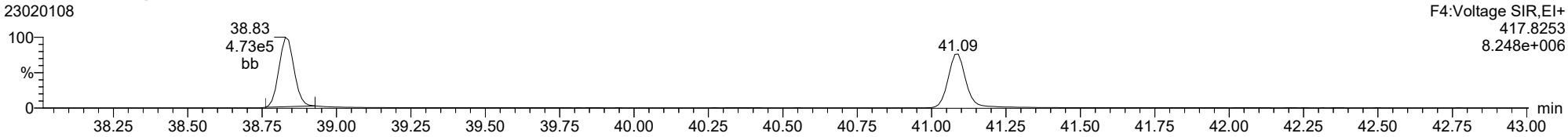

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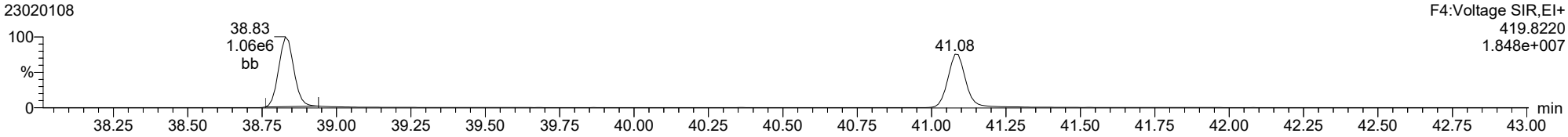

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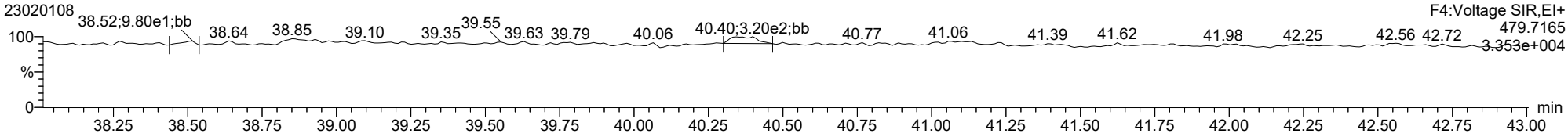

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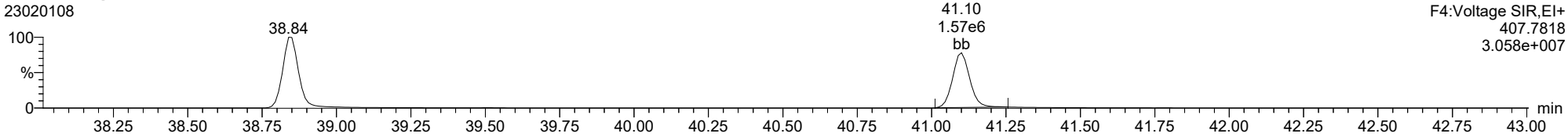

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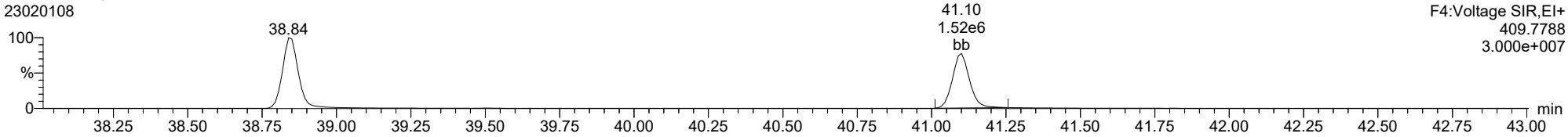

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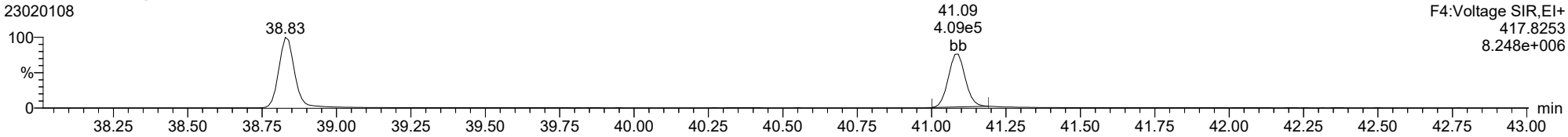

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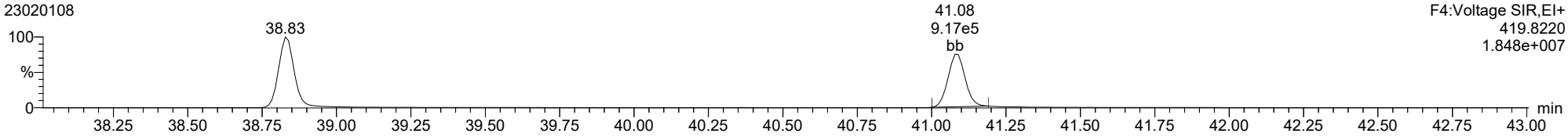

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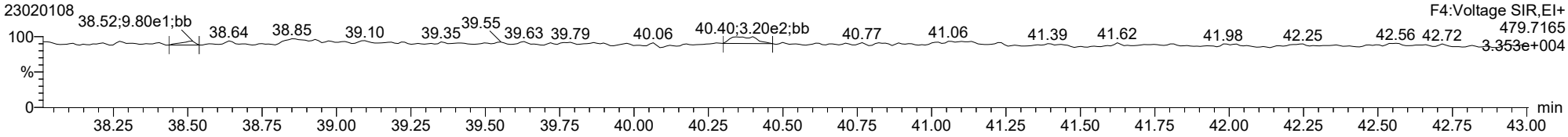

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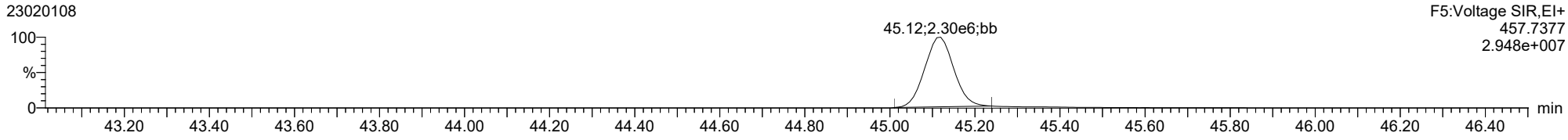

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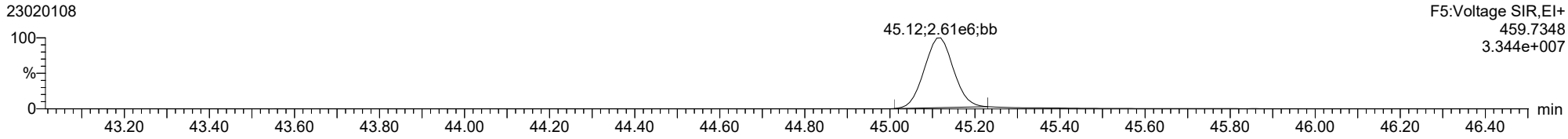

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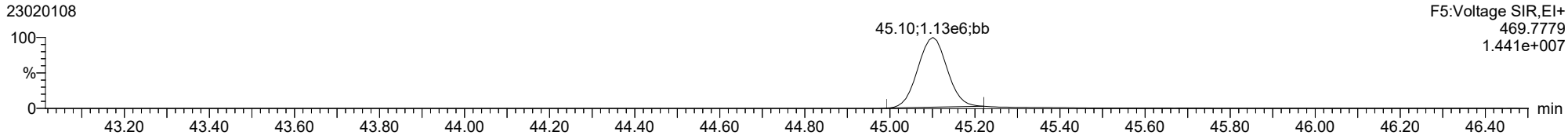

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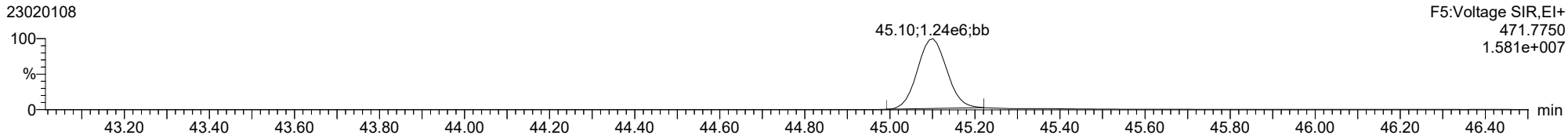
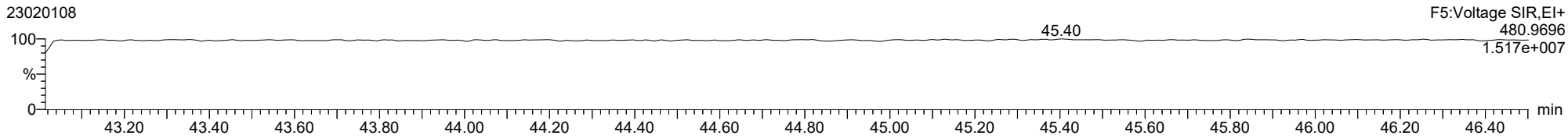


FUNCTION5 PFK



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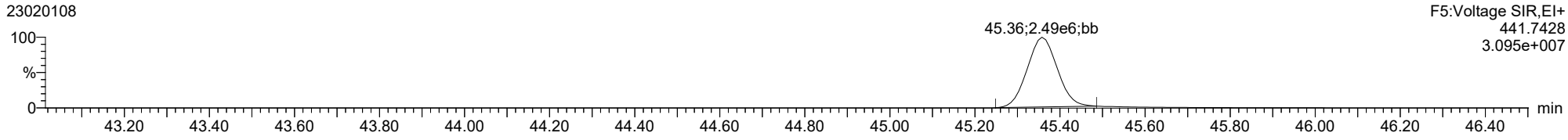

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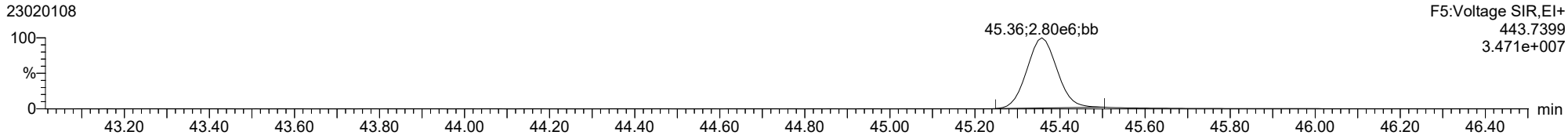
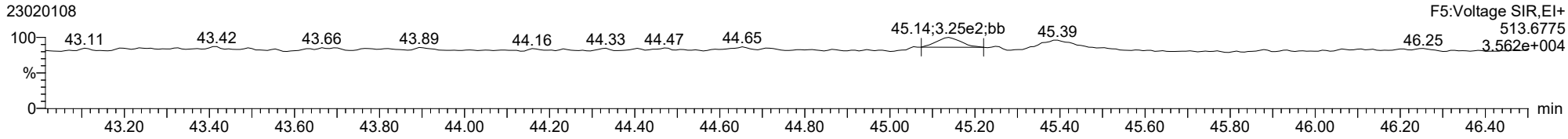


FUNCTION5 DCDPE



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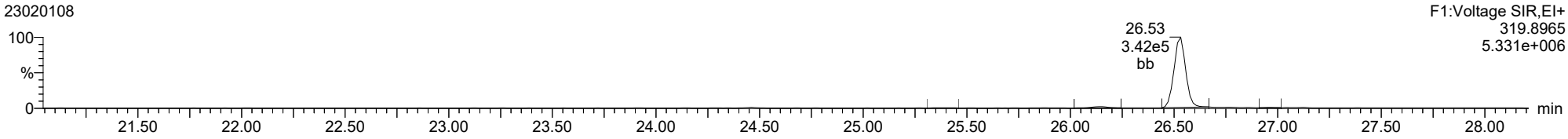
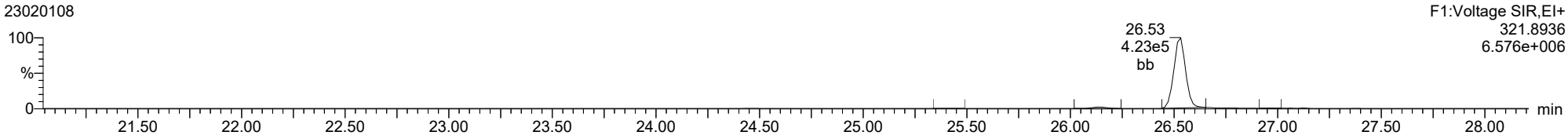
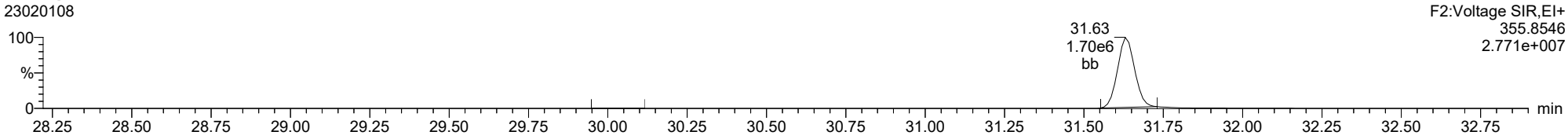
Total-tetradioxins



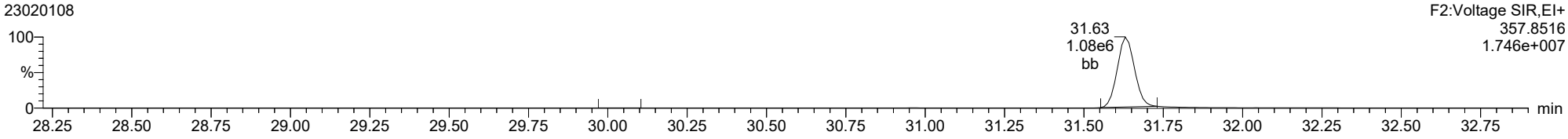
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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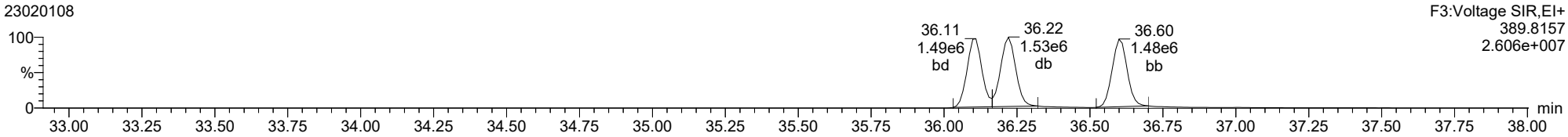
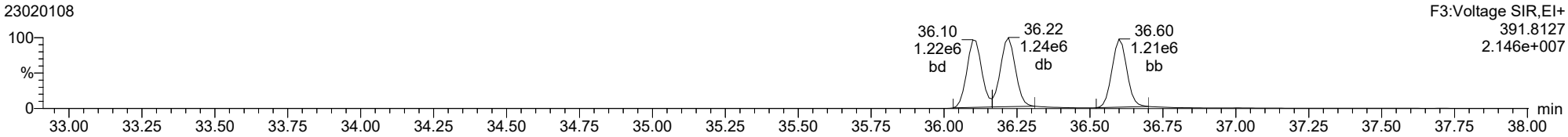
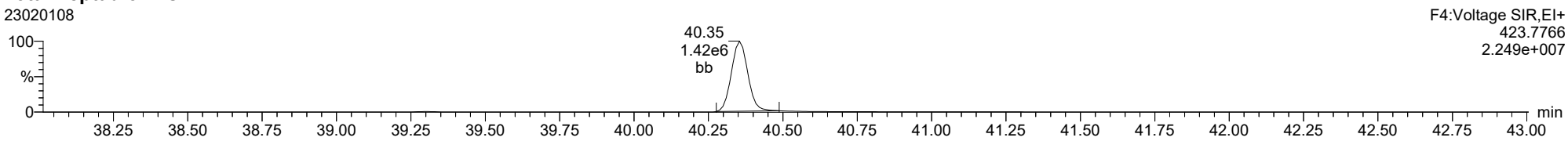
Total-hexadioxins



Total-hexadioxins



Total-heptadioxins



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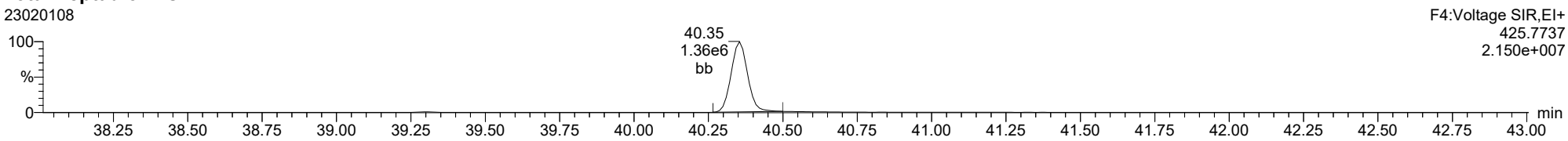

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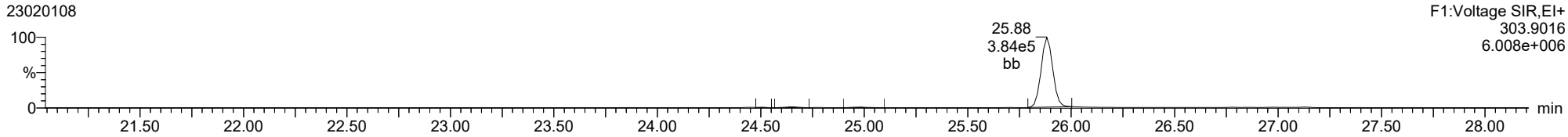
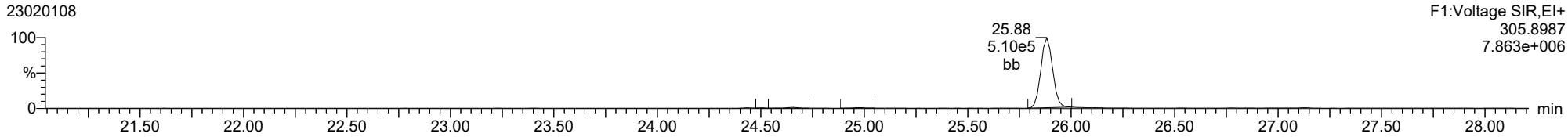
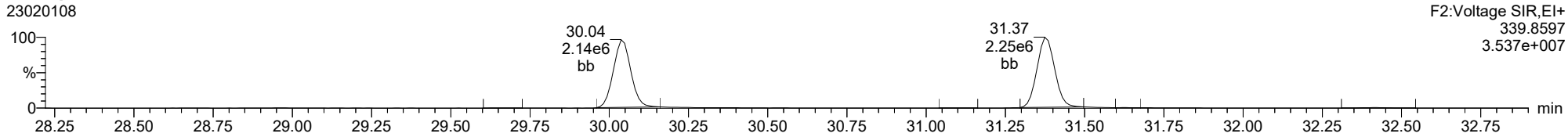
Total-tetrafurans



Total-tetrafurans



Total-pentafurans



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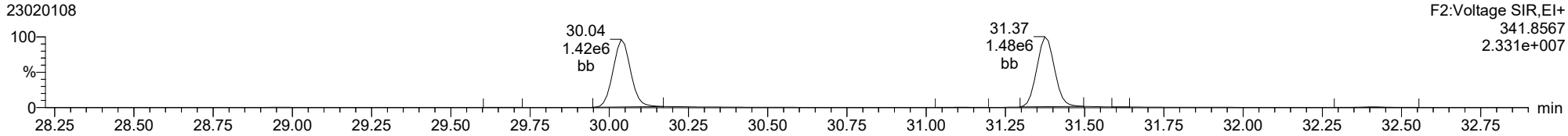
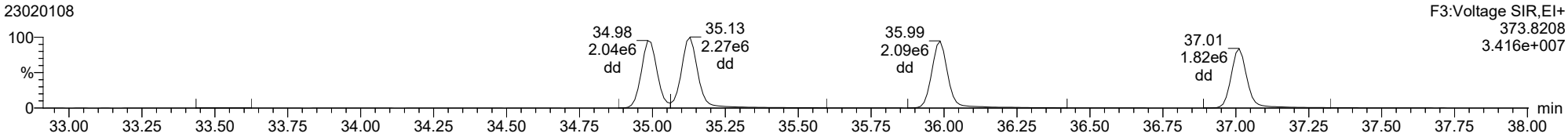
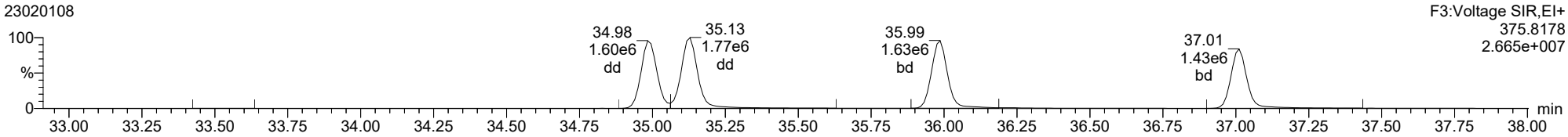


ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

Total-hexafurans



Total-hexafurans



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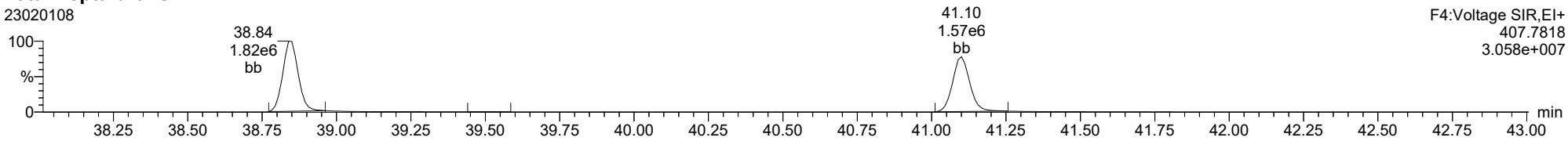
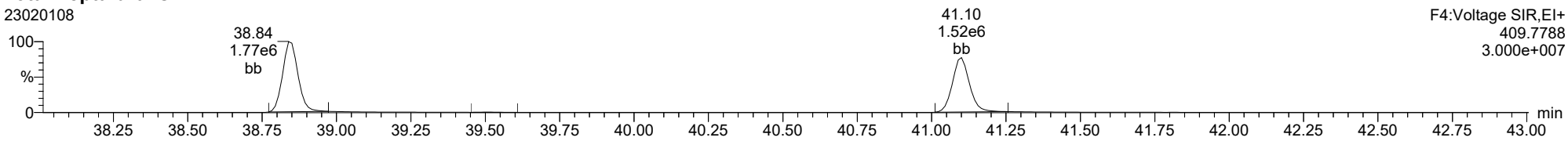


Total-heptafurans



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Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:38:07 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: 03 Feb 2023 10:33:40

ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.897	1.001	1.902e6	2.502e6	0.876	0.760	0.770	2083	2633	2.83e7	3.68e7	13592.2	13978.0	NO	bb	bb	198.739
12378-PeCDF	30.049	1.000	1.205e7	7.874e6	0.845	1.531	1.550	7373	5488	1.93e8	1.26e8	26224.5	23031.6	NO	bb	bb	994.981
23478-PeCDF	31.386	1.000	1.269e7	8.370e6	0.911	1.517	1.550	7373	5488	2.06e8	1.36e8	27965.2	24705.2	NO	bb	bb	1016.382
123478-HxCDF	34.995	1.000	1.141e7	8.950e6	1.182	1.275	1.240	3920	5169	1.84e8	1.47e8	46993.0	28370.7	NO	dd	dd	1029.340
234678-HxCDF	35.998	1.001	1.171e7	9.171e6	1.229	1.276	1.240	3920	5169	1.90e8	1.49e8	48596.8	28890.8	NO	dd	dd	1009.446
123678-HxCDF	35.140	1.001	1.235e7	9.894e6	1.248	1.248	1.240	3920	5169	1.94e8	1.54e8	49388.8	29696.3	NO	dd	dd	1025.687
123789-HxCDF	37.023	1.001	1.031e7	8.091e6	1.187	1.275	1.240	3920	5169	1.66e8	1.30e8	42476.6	25233.9	NO	bd	bd	998.443
1234678-HpCDF	38.850	1.000	1.032e7	1.012e7	1.204	1.019	1.050	8904	8155	1.75e8	1.74e8	19676.2	21311.7	NO	bb	bb	964.735
1234789-HpCDF	41.112	1.000	8.967e6	8.709e6	1.165	1.030	1.050	8904	8155	1.36e8	1.32e8	15298.2	16219.3	NO	bb	bb	993.722
OCDF	45.375	1.006	1.493e7	1.667e7	1.186	0.896	0.890	4510	4269	1.90e8	2.12e8	42161.0	49693.7	NO	bb	bb	1895.001
2378-TCDD	26.532	1.001	1.752e6	2.174e6	1.236	0.806	0.770	1459	2196	2.70e7	3.36e7	18498.5	15304.9	NO	bb	bb	198.710
12378-PeCDD	31.642	1.000	9.606e6	6.125e6	1.087	1.568	1.550	3423	1668	1.56e8	9.91e7	45448.5	59405.3	NO	bb	bb	1009.559
123478-HxCDD	36.120	1.001	8.528e6	7.016e6	0.987	1.215	1.240	3213	2854	1.40e8	1.15e8	43594.1	40358.9	NO	bd	bd	1032.837
123678-HxCDD	36.232	1.000	8.754e6	7.068e6	1.021	1.239	1.240	3213	2854	1.51e8	1.23e8	47081.5	43211.8	NO	db	db	969.556
123789-HxCDD	36.611	1.011	8.604e6	7.092e6	0.985	1.213	1.240	3213	2854	1.49e8	1.23e8	46396.6	43264.5	NO	bb	bb	1019.817
1234678-HpCDD	40.365	1.001	8.084e6	7.725e6	1.253	1.046	1.050	4704	6048	1.30e8	1.24e8	27631.4	20454.3	NO	bb	bb	955.606
OCDD	45.138	1.000	1.379e7	1.563e7	1.103	0.882	0.890	4246	3833	1.77e8	2.00e8	41633.2	52271.8	NO	bb	bb	1898.324
13C-2378-TCDF	25.867	1.007	1.117e6	1.412e6	1.768	0.791	0.770	2137	1536	1.68e7	2.15e7	7867.7	13974.0	NO	bb	bb	104.652
13C-12378-PeCDF	30.037	1.169	1.439e6	9.319e5	1.527	1.544	1.550	3190	2679	2.23e7	1.46e7	6993.2	5456.9	NO	bb	bb	113.578
13C-23478-PeCDF	31.375	1.221	1.384e6	8.910e5	1.466	1.553	1.550	3190	2679	2.11e7	1.37e7	6621.6	5099.2	NO	bb	bb	113.466
13C-123478-HxCDF	34.984	0.956	5.247e5	1.149e6	1.054	0.456	0.510	2046	3816	8.96e6	1.85e7	4377.9	4858.6	NO	bb	bd	95.236
13C-123678-HxCDF	35.118	0.960	5.447e5	1.193e6	1.080	0.456	0.510	2046	3816	9.54e6	1.96e7	4663.8	5131.1	NO	bb	db	96.456
13C-234678-HxCDF	35.976	0.983	5.724e5	1.111e6	1.014	0.515	0.510	2046	3816	9.48e6	1.86e7	4633.3	4871.3	NO	bb	bb	99.457
13C-123789-HxCDF	37.001	1.011	5.244e5	1.029e6	0.928	0.510	0.510	2046	3816	8.87e6	1.74e7	4335.4	4558.1	NO	bb	bb	100.353
13C-1234678-HpCDF	38.839	1.061	5.492e5	1.210e6	1.036	0.454	0.440	2607	3522	9.31e6	2.08e7	3570.6	5900.4	NO	bb	bb	101.771
13C-1234789-HpCDF	41.100	1.123	4.687e5	1.058e6	0.905	0.443	0.440	2607	3522	6.97e6	1.56e7	2673.2	4442.5	NO	bb	bb	101.106
13C-1234-TCDD	25.700	0.000	6.087e5	7.585e5	1.000	0.803	0.770	1970	1516	9.39e6	1.18e7	4765.4	7760.6	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	7.055e5	8.929e5	1.103	0.790	0.770	1970	1516	1.10e7	1.38e7	5597.9	9134.2	NO	bb	bb	106.005
13C-12378-PeCDD	31.631	1.231	8.888e5	5.452e5	0.914	1.630	1.550	1596	1437	1.37e7	8.34e6	8557.4	5803.5	NO	bb	bb	114.739
13C-123478-HxCDD	36.098	0.986	8.648e5	6.600e5	0.933	1.310	1.240	2021	1546	1.43e7	1.10e7	7083.3	7089.6	NO	bd	bd	97.968
13C-123678-HxCDD	36.221	0.990	8.909e5	7.079e5	0.965	1.258	1.240	2021	1546	1.49e7	1.18e7	7371.3	7606.4	NO	db	db	99.340
13C-1234678-HpCDD	40.343	1.102	6.795e5	6.413e5	0.782	1.059	1.050	2204	1955	1.08e7	1.02e7	4901.5	5191.4	NO	bb	bb	101.235
13C-OCDD	45.119	1.233	1.338e6	1.473e6	0.788	0.908	0.890	3227	1633	1.70e7	1.87e7	5253.8	11468.7	NO	bb	bb	213.757
13C-123789-HxCDD	36.600	0.000	9.379e5	7.305e5	1.000	1.284	1.240	2021	1546	1.55e7	1.24e7	7683.2	7996.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	3.390e6		1.233			2288		5.24e7		22881.9			bb		201.044

Dataset: T:\Autospec\Processed Data Batch\230201ICIH.qld
Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:38:07 Pacific Standard Time

ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	2083	2633								
1289-TCDF					0.858		0.770	2083	2633								
13468-PECDF					1.013		1.550	1030	1210								
12389-PECDF					0.844		1.550	7373	5488								
123468-HXCDF					1.197		1.240	3920	5169								
1368-TCDD					1.084		0.770	1459	2196								
1289-TCDD					0.975		0.770	1459	2196								
12479-PECDD					1.837		1.550	3423	1668								
12389-PECDD					1.252		1.550	3423	1668								
124679-HXCDD					1.033		1.240	3213	2854								
1234679-HPCDD					1.286		1.050	4704	6048								
Total-tetrafurans			1.936e6		0.933			2083		2.88e7							202.080
Total-penta1			0.000e0					1030		0.00e0							
Total-pentafurans			2.494e7		0.866			7373		4.02e8							2027.255
Total-hexafurans			4.602e7		1.208			3920		7.37e8							4083.100
Total-heptafurans			1.932e7		1.185			8904		3.12e8							1962.233
Total-Furans			1.071e8		1.067			2083		1.67e9							10169.669
Total-tetradioxins			1.793e6		1.099			1459		2.75e7							203.813
Total-pentadioxins			9.627e6		1.392			3423		1.56e8							1011.307
Total-hexadioxins			2.592e7		1.007			3213		4.41e8							3025.757
Total-heptadioxins			8.084e6		1.269			4704		1.30e8							955.606
Total-Dioxins			5.921e7		1.165			1459		9.31e8							7094.807
Total-TEQ			1.664e8					1459		2.60e9							17264.476
FUNCTION1 PFK			2.029e7					574211		2.20e8							
FUNCTION2 PFK			0.000e0					188547		0.00e0							
FUNCTION3 PFK			1.011e6					450058		2.54e7							0.000
FUNCTION4 PFK			3.839e5					271819		2.65e6							
FUNCTION5 PFK			1.416e4					194883		8.19e5							
FUNCTION1 HXCD...			1.885e3					653		2.55e4							0.000
FUNCTION1 HPCD...			1.625e3					761		2.22e4							0.000
FUNCTION2 HPCD...			1.554e4					835		2.29e5							0.000
FUNCTION3 OCDPE			7.873e3					764		8.87e4							0.000
FUNCTION4 NCDPE			2.525e3					778		3.44e4							0.000
FUNCTION5 DCDPE			4.222e3					726		3.75e4							0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: 03 Feb 2023 10:33:40

ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	26.53	2.226e3	3.396e3	0.933	0.66	0.77	11.6	YES	NO	bb	bd	0.238
2	2378-TCDF	25.90	1.902e6	2.502e6	0.876	0.76	0.77	13592.2	YES	NO	bb	bb	198.739
3	Total-tetrafurans	25.72	1.842e3	2.753e3	0.933	0.67	0.77	10.6	YES	NO	bb	bb	0.195
4	Total-tetrafurans	24.97	1.224e4	1.625e4	0.933	0.75	0.77	91.6	YES	NO	db	dd	1.208
5	Total-tetrafurans	24.66	1.707e4	2.304e4	0.933	0.74	0.77	124.7	YES	NO	bd	dd	1.700

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.97	3.816e4	2.465e4	0.866	1.55	1.55	67.9	YES	NO	bb	bb	3.121
2	Total-pentafurans	28.68	1.252e3	7.687e2	0.866	1.63	1.55	2.7	NO	NO	bb	bb	0.100
3	Total-pentafurans	31.64	2.450e4	1.763e4	0.866	1.39	1.55	52.8	YES	NO	bb	bb	2.093
4	23478-PeCDF	31.39	1.269e7	8.370e6	0.911	1.52	1.55	27965.2	YES	NO	bb	bb	1016.3...
5	Total-pentafurans	31.12	1.334e4	8.233e3	0.866	1.62	1.55	28.5	YES	NO	bb	bb	1.072
6	Total-pentafurans	30.35	1.243e4	7.715e3	0.866	1.61	1.55	30.7	YES	NO	bb	bb	1.001
7	12378-PeCDF	30.05	1.205e7	7.874e6	0.845	1.53	1.55	26224.5	YES	NO	bb	bb	994.981
8	Total-pentafurans	29.76	8.085e3	5.894e3	0.866	1.37	1.55	15.9	YES	NO	db	db	0.695
9	Total-pentafurans	29.68	6.865e3	3.988e3	0.866	1.72	1.55	14.4	YES	NO	bd	bd	0.539
10	Total-pentafurans	32.42	8.774e4	5.860e4	0.866	1.50	1.55	183.2	YES	NO	bb	bd	7.271

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HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	35.00	1.141e7	8.950e6	1.182	1.28	1.24	46993.0	YES	NO	dd	dd	1029.3...
2	Total-hexafurans	34.84	1.696e4	1.325e4	1.208	1.28	1.24	72.5	YES	NO	bd	bd	1.504
3	Total-hexafurans	33.55	9.817e3	7.389e3	1.208	1.33	1.24	34.0	YES	NO	dd	db	0.857
4	123789-HxCDF	37.02	1.031e7	8.091e6	1.187	1.27	1.24	42476.6	YES	NO	bd	bd	998.443
5	Total-hexafurans	36.62	3.175e4	2.702e4	1.208	1.17	1.24	85.2	YES	NO	dd	db	2.926
6	Total-hexafurans	36.53	6.162e3	4.947e3	1.208	1.25	1.24	37.3	YES	NO	dd	dd	0.553
7	Total-hexafurans	36.23	1.664e5	1.218e5	1.208	1.37	1.24	331.3	YES	NO	dd	dd	14.345
8	234678-HxCDF	36.00	1.171e7	9.171e6	1.229	1.28	1.24	48596.8	YES	NO	dd	dd	1009.4...
9	123678-HxCDF	35.14	1.235e7	9.894e6	1.248	1.25	1.24	49388.8	YES	NO	dd	dd	1025.6...

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.11	8.967e6	8.709e6	1.165	1.03	1.05	15298.2	YES	NO	bb	bb	993.722
2	Total-heptafurans	40.38	1.043e4	1.014e4	1.185	1.03	1.05	14.2	YES	NO	bb	bb	1.057
3	Total-heptafurans	39.52	2.112e4	2.199e4	1.185	0.96	1.05	42.5	YES	NO	bb	bb	2.215
4	Total-heptafurans	39.26	5.058e3	4.749e3	1.185	1.07	1.05	11.5	YES	NO	bb	bb	0.504
5	1234678-HpCDF	38.85	1.032e7	1.012e7	1.204	1.02	1.05	19676.2	YES	NO	bb	bb	964.735

ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	26.53	2.226e3	3.396e3	0.933	0.66	0.77	11.6	YES	NO	bb	bd	0.238
2	2378-TCDF	25.90	1.902e6	2.502e6	0.876	0.76	0.77	13592.2	YES	NO	bb	bb	198.739
3	Total-tetrafurans	25.72	1.842e3	2.753e3	0.933	0.67	0.77	10.6	YES	NO	bb	bb	0.195
4	Total-tetrafurans	24.97	1.224e4	1.625e4	0.933	0.75	0.77	91.6	YES	NO	db	dd	1.208
5	Total-tetrafurans	24.66	1.707e4	2.304e4	0.933	0.74	0.77	124.7	YES	NO	bd	dd	1.700
6	Total-pentafurans	28.97	3.816e4	2.465e4	0.866	1.55	1.55	67.9	YES	NO	bb	bb	3.121
7	Total-pentafurans	28.68	1.252e3	7.687e2	0.866	1.63	1.55	2.7	NO	NO	bb	bb	0.100
8	Total-pentafurans	31.64	2.450e4	1.763e4	0.866	1.39	1.55	52.8	YES	NO	bb	bb	2.093
9	23478-PeCDF	31.39	1.269e7	8.370e6	0.911	1.52	1.55	27965.2	YES	NO	bb	bb	1016.3...
10	Total-pentafurans	31.12	1.334e4	8.233e3	0.866	1.62	1.55	28.5	YES	NO	bb	bb	1.072
11	Total-pentafurans	30.35	1.243e4	7.715e3	0.866	1.61	1.55	30.7	YES	NO	bb	bb	1.001
12	12378-PeCDF	30.05	1.205e7	7.874e6	0.845	1.53	1.55	26224.5	YES	NO	bb	bb	994.981
13	Total-pentafurans	29.76	8.085e3	5.894e3	0.866	1.37	1.55	15.9	YES	NO	db	db	0.695
14	Total-pentafurans	29.68	6.865e3	3.988e3	0.866	1.72	1.55	14.4	YES	NO	bd	bd	0.539
15	Total-pentafurans	32.42	8.774e4	5.860e4	0.866	1.50	1.55	183.2	YES	NO	bb	bd	7.271
16	123478-HxCDF	35.00	1.141e7	8.950e6	1.182	1.28	1.24	46993.0	YES	NO	dd	dd	1029.3...
17	Total-hexafurans	34.84	1.696e4	1.325e4	1.208	1.28	1.24	72.5	YES	NO	bd	bd	1.504
18	Total-hexafurans	33.55	9.817e3	7.389e3	1.208	1.33	1.24	34.0	YES	NO	dd	db	0.857
19	123789-HxCDF	37.02	1.031e7	8.091e6	1.187	1.27	1.24	42476.6	YES	NO	bd	bd	998.443
20	Total-hexafurans	36.62	3.175e4	2.702e4	1.208	1.17	1.24	85.2	YES	NO	dd	db	2.926
21	Total-hexafurans	36.53	6.162e3	4.947e3	1.208	1.25	1.24	37.3	YES	NO	dd	dd	0.553
22	Total-hexafurans	36.23	1.664e5	1.218e5	1.208	1.37	1.24	331.3	YES	NO	dd	dd	14.345
23	234678-HxCDF	36.00	1.171e7	9.171e6	1.229	1.28	1.24	48596.8	YES	NO	dd	dd	1009.4...
24	123678-HxCDF	35.14	1.235e7	9.894e6	1.248	1.25	1.24	49388.8	YES	NO	dd	dd	1025.6...
25	1234789-HpCDF	41.11	8.967e6	8.709e6	1.165	1.03	1.05	15298.2	YES	NO	bb	bb	993.722
26	Total-heptafurans	40.38	1.043e4	1.014e4	1.185	1.03	1.05	14.2	YES	NO	bb	bb	1.057
27	Total-heptafurans	39.52	2.112e4	2.199e4	1.185	0.96	1.05	42.5	YES	NO	bb	bb	2.215
28	Total-heptafurans	39.26	5.058e3	4.749e3	1.185	1.07	1.05	11.5	YES	NO	bb	bb	0.504
29	1234678-HpCDF	38.85	1.032e7	1.012e7	1.204	1.02	1.05	19676.2	YES	NO	bb	bb	964.735
30	OCDF	45.38	1.493e7	1.667e7	1.186	0.90	0.89	42161.0	YES	NO	bb	bb	1895.0...

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	1.752e6	2.174e6	1.236	0.81	0.77	18498.5	YES	NO	bb	bb	198.710
2	Total-tetradioxins	26.15	3.848e4	4.731e4	1.099	0.81	0.77	307.2	YES	NO	bb	bb	4.885
3	Total-tetradioxins	25.40	1.655e3	2.163e3	1.099	0.76	0.77	18.7	YES	NO	bb	bb	0.217

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PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.64	9.606e6	6.125e6	1.087	1.57	1.55	45448.5	YES	NO	bb	bb	1009.5...
2	Total-pentadioxins	30.97	1.150e4	6.979e3	1.392	1.65	1.55	51.3	YES	NO	bb	bd	0.925
3	Total-pentadioxins	30.41	1.660e3	1.100e3	1.392	1.51	1.55	6.6	YES	NO	db	db	0.138
4	Total-pentadioxins	30.05	7.800e3	5.854e3	1.392	1.33	1.55	33.3	YES	NO	bd	bd	0.684

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	34.88	8.900e2	7.985e2	1.007	1.11	1.24	4.5	YES	NO	bd	bd	0.107
2	Total-hexadioxins	37.15	6.920e2	5.023e2	1.007	1.38	1.24	4.7	YES	NO	db	bb	0.076
3	Total-hexadioxins	37.02	2.963e4	2.325e4	1.007	1.27	1.24	128.2	YES	NO	bd	bb	3.364
4	123789-HxCDD	36.61	8.604e6	7.092e6	0.985	1.21	1.24	46396.6	YES	NO	bb	bb	1019.8...
5	123678-HxCDD	36.23	8.754e6	7.068e6	1.021	1.24	1.24	47081.5	YES	NO	db	db	969.556
6	123478-HxCDD	36.12	8.528e6	7.016e6	0.987	1.22	1.24	43594.1	YES	NO	bd	bd	1032.8...

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.37	8.084e6	7.725e6	1.253	1.05	1.05	27631.4	YES	NO	bb	bb	955.606

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	1.752e6	2.174e6	1.236	0.81	0.77	18498.5	YES	NO	bb	bb	198.710
2	Total-tetradioxins	26.15	3.848e4	4.731e4	1.099	0.81	0.77	307.2	YES	NO	bb	bb	4.885
3	Total-tetradioxins	25.40	1.655e3	2.163e3	1.099	0.76	0.77	18.7	YES	NO	bb	bb	0.217
4	12378-PeCDD	31.64	9.606e6	6.125e6	1.087	1.57	1.55	45448.5	YES	NO	bb	bb	1009.5...
5	Total-pentadioxins	30.97	1.150e4	6.979e3	1.392	1.65	1.55	51.3	YES	NO	bb	bd	0.925
6	Total-pentadioxins	30.41	1.660e3	1.100e3	1.392	1.51	1.55	6.6	YES	NO	db	db	0.138
7	Total-pentadioxins	30.05	7.800e3	5.854e3	1.392	1.33	1.55	33.3	YES	NO	bd	bd	0.684
8	Total-hexadioxins	34.88	8.900e2	7.985e2	1.007	1.11	1.24	4.5	YES	NO	bd	bd	0.107
9	Total-hexadioxins	37.15	6.920e2	5.023e2	1.007	1.38	1.24	4.7	YES	NO	db	bb	0.076
10	Total-hexadioxins	37.02	2.963e4	2.325e4	1.007	1.27	1.24	128.2	YES	NO	bd	bb	3.364
11	123789-HxCDD	36.61	8.604e6	7.092e6	0.985	1.21	1.24	46396.6	YES	NO	bb	bb	1019.8...
12	123678-HxCDD	36.23	8.754e6	7.068e6	1.021	1.24	1.24	47081.5	YES	NO	db	db	969.556
13	123478-HxCDD	36.12	8.528e6	7.016e6	0.987	1.22	1.24	43594.1	YES	NO	bd	bd	1032.8...
14	1234678-HpCDD	40.37	8.084e6	7.725e6	1.253	1.05	1.05	27631.4	YES	NO	bb	bb	955.606
15	OCDD	45.14	1.379e7	1.563e7	1.103	0.88	0.89	41633.2	YES	NO	bb	bb	1898.3...

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	26.53	2.226e3	3.396e3	0.933	0.66	0.77	11.6	YES	NO	bb	bd	0.238
2	2378-TCDF	25.90	1.902e6	2.502e6	0.876	0.76	0.77	13592.2	YES	NO	bb	bb	198.739
3	Total-tetrafurans	25.72	1.842e3	2.753e3	0.933	0.67	0.77	10.6	YES	NO	bb	bb	0.195
4	Total-tetrafurans	24.97	1.224e4	1.625e4	0.933	0.75	0.77	91.6	YES	NO	db	dd	1.208
5	Total-tetrafurans	24.66	1.707e4	2.304e4	0.933	0.74	0.77	124.7	YES	NO	bd	dd	1.700
6	Total-pentafurans	28.97	3.816e4	2.465e4	0.866	1.55	1.55	67.9	YES	NO	bb	bb	3.121
7	Total-pentafurans	28.68	1.252e3	7.687e2	0.866	1.63	1.55	2.7	NO	NO	bb	bb	0.100
8	Total-pentafurans	31.64	2.450e4	1.763e4	0.866	1.39	1.55	52.8	YES	NO	bb	bb	2.093
9	23478-PeCDF	31.39	1.269e7	8.370e6	0.911	1.52	1.55	27965.2	YES	NO	bb	bb	1016.3...
10	Total-pentafurans	31.12	1.334e4	8.233e3	0.866	1.62	1.55	28.5	YES	NO	bb	bb	1.072
11	Total-pentafurans	30.35	1.243e4	7.715e3	0.866	1.61	1.55	30.7	YES	NO	bb	bb	1.001
12	12378-PeCDF	30.05	1.205e7	7.874e6	0.845	1.53	1.55	26224.5	YES	NO	bb	bb	994.981
13	Total-pentafurans	29.76	8.085e3	5.894e3	0.866	1.37	1.55	15.9	YES	NO	db	db	0.695
14	Total-pentafurans	29.68	6.865e3	3.988e3	0.866	1.72	1.55	14.4	YES	NO	bd	bd	0.539
15	Total-pentafurans	32.42	8.774e4	5.860e4	0.866	1.50	1.55	183.2	YES	NO	bb	bd	7.271
16	123478-HxCDF	35.00	1.141e7	8.950e6	1.182	1.28	1.24	46993.0	YES	NO	dd	dd	1029.3...
17	Total-hexafurans	34.84	1.696e4	1.325e4	1.208	1.28	1.24	72.5	YES	NO	bd	bd	1.504
18	Total-hexafurans	33.55	9.817e3	7.389e3	1.208	1.33	1.24	34.0	YES	NO	dd	db	0.857
19	123789-HxCDF	37.02	1.031e7	8.091e6	1.187	1.27	1.24	42476.6	YES	NO	bd	bd	998.443
20	Total-hexafurans	36.62	3.175e4	2.702e4	1.208	1.17	1.24	85.2	YES	NO	dd	db	2.926
21	Total-hexafurans	36.53	6.162e3	4.947e3	1.208	1.25	1.24	37.3	YES	NO	dd	dd	0.553
22	Total-hexafurans	36.23	1.664e5	1.218e5	1.208	1.37	1.24	331.3	YES	NO	dd	dd	14.345
23	234678-HxCDF	36.00	1.171e7	9.171e6	1.229	1.28	1.24	48596.8	YES	NO	dd	dd	1009.4...
24	123678-HxCDF	35.14	1.235e7	9.894e6	1.248	1.25	1.24	49388.8	YES	NO	dd	dd	1025.6...
25	1234789-HpCDF	41.11	8.967e6	8.709e6	1.165	1.03	1.05	15298.2	YES	NO	bb	bb	993.722
26	Total-heptafurans	40.38	1.043e4	1.014e4	1.185	1.03	1.05	14.2	YES	NO	bb	bb	1.057
27	Total-heptafurans	39.52	2.112e4	2.199e4	1.185	0.96	1.05	42.5	YES	NO	bb	bb	2.215
28	Total-heptafurans	39.26	5.058e3	4.749e3	1.185	1.07	1.05	11.5	YES	NO	bb	bb	0.504
29	1234678-HpCDF	38.85	1.032e7	1.012e7	1.204	1.02	1.05	19676.2	YES	NO	bb	bb	964.735
30	OCDF	45.38	1.493e7	1.667e7	1.186	0.90	0.89	42161.0	YES	NO	bb	bb	1895.0...
31	2378-TCDD	26.53	1.752e6	2.174e6	1.236	0.81	0.77	18498.5	YES	NO	bb	bb	198.710
32	Total-tetradioxins	26.15	3.848e4	4.731e4	1.099	0.81	0.77	307.2	YES	NO	bb	bb	4.885
33	Total-tetradioxins	25.40	1.655e3	2.163e3	1.099	0.76	0.77	18.7	YES	NO	bb	bb	0.217
34	12378-PeCDD	31.64	9.606e6	6.125e6	1.087	1.57	1.55	45448.5	YES	NO	bb	bb	1009.5...
35	Total-pentadioxins	30.97	1.150e4	6.979e3	1.392	1.65	1.55	51.3	YES	NO	bb	bd	0.925
36	Total-pentadioxins	30.41	1.660e3	1.100e3	1.392	1.51	1.55	6.6	YES	NO	db	db	0.138
37	Total-pentadioxins	30.05	7.800e3	5.854e3	1.392	1.33	1.55	33.3	YES	NO	bd	bd	0.684

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-hexadioxins	34.88	8.900e2	7.985e2	1.007	1.11	1.24	4.5	YES	NO	bd	bd	0.107
39	Total-hexadioxins	37.15	6.920e2	5.023e2	1.007	1.38	1.24	4.7	YES	NO	db	bb	0.076
40	Total-hexadioxins	37.02	2.963e4	2.325e4	1.007	1.27	1.24	128.2	YES	NO	bd	bb	3.364
41	123789-HxCDD	36.61	8.604e6	7.092e6	0.985	1.21	1.24	46396.6	YES	NO	bb	bb	1019.8...
42	123678-HxCDD	36.23	8.754e6	7.068e6	1.021	1.24	1.24	47081.5	YES	NO	db	db	969.556
43	123478-HxCDD	36.12	8.528e6	7.016e6	0.987	1.22	1.24	43594.1	YES	NO	bd	bd	1032.8...
44	1234678-HpCDD	40.37	8.084e6	7.725e6	1.253	1.05	1.05	27631.4	YES	NO	bb	bb	955.606
45	OCDD	45.14	1.379e7	1.563e7	1.103	0.88	0.89	41633.2	YES	NO	bb	bb	1898.3...

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.86	8.873e5					21.2	YES		dd		
2	FUNCTION1 PFK	21.80	7.665e5					22.5	YES		dd		
3	FUNCTION1 PFK	21.74	1.019e6					23.9	YES		dd		
4	FUNCTION1 PFK	21.59	1.959e6					26.2	YES		dd		
5	FUNCTION1 PFK	21.53	6.962e5					27.3	YES		dd		
6	FUNCTION1 PFK	21.47	1.211e6					28.6	YES		dd		
7	FUNCTION1 PFK	21.41	1.009e6					29.4	YES		dd		
8	FUNCTION1 PFK	21.13	5.872e6					34.2	YES		bd		
9	FUNCTION1 PFK	23.67	5.720e3					0.4	NO		bb		
10	FUNCTION1 PFK	23.28	9.896e3					0.7	NO		bb		
11	FUNCTION1 PFK	23.24	1.090e4					0.7	NO		bb		
12	FUNCTION1 PFK	23.16	1.031e4					0.6	NO		bb		
13	FUNCTION1 PFK	22.96	3.707e4					1.5	NO		db		
14	FUNCTION1 PFK	22.84	1.630e5					3.4	YES		dd		
15	FUNCTION1 PFK	22.72	3.257e5					5.8	YES		dd		
16	FUNCTION1 PFK	22.59	5.378e5					8.3	YES		dd		
17	FUNCTION1 PFK	22.53	8.039e5					8.9	YES		dd		
18	FUNCTION1 PFK	22.37	3.709e5					11.1	YES		dd		
19	FUNCTION1 PFK	22.31	5.024e5					12.0	YES		dd		
20	FUNCTION1 PFK	22.18	9.225e5					14.7	YES		dd		
21	FUNCTION1 PFK	22.12	3.970e5					15.8	YES		dd		
22	FUNCTION1 PFK	22.07	7.082e5					16.9	YES		dd		
23	FUNCTION1 PFK	22.00	6.094e5					18.0	YES		dd		
24	FUNCTION1 PFK	21.94	6.575e5					19.5	YES		dd		
25	FUNCTION1 PFK	26.06	4.194e4					1.5	NO		bb		
26	FUNCTION1 PFK	25.69	3.568e4					1.2	NO		bb		
27	FUNCTION1 PFK	25.56	8.323e3					0.5	NO		bb		
28	FUNCTION1 PFK	25.49	1.374e4					0.7	NO		bb		
29	FUNCTION1 PFK	25.10	2.036e4					1.0	NO		db		
30	FUNCTION1 PFK	25.02	2.247e4					1.0	NO		bd		
31	FUNCTION1 PFK	24.96	3.286e4					1.5	NO		db		
32	FUNCTION1 PFK	24.90	1.152e4					0.7	NO		bd		
33	FUNCTION1 PFK	24.84	1.639e4					1.0	NO		bb		
34	FUNCTION1 PFK	24.78	2.451e4					1.1	NO		db		
35	FUNCTION1 PFK	24.72	2.714e4					1.2	NO		bd		
36	FUNCTION1 PFK	24.55	3.918e3					0.5	NO		bb		
37	FUNCTION1 PFK	24.37	3.551e4					1.1	NO		bb		

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	24.01	2.091e4					0.9	NO		bb		
39	FUNCTION1 PFK	23.87	1.925e4					0.9	NO		db		
40	FUNCTION1 PFK	23.80	1.436e4					0.7	NO		bd		
41	FUNCTION1 PFK	27.74	4.148e4					1.2	NO		bb		
42	FUNCTION1 PFK	27.61	1.687e4					0.9	NO		bb		
43	FUNCTION1 PFK	27.36	2.823e4					1.3	NO		bb		
44	FUNCTION1 PFK	27.23	1.221e4					0.7	NO		bb		
45	FUNCTION1 PFK	27.11	2.196e4					0.8	NO		bb		
46	FUNCTION1 PFK	27.03	4.103e4					1.6	NO		db		
47	FUNCTION1 PFK	26.97	5.610e4					1.7	NO		dd		
48	FUNCTION1 PFK	26.86	5.847e4					1.3	NO		dd		
49	FUNCTION1 PFK	26.79	3.039e4					1.0	NO		bd		
50	FUNCTION1 PFK	26.68	1.065e4					0.6	NO		db		
51	FUNCTION1 PFK	26.64	8.185e3					0.7	NO		bd		
52	FUNCTION1 PFK	26.52	5.718e4					1.5	NO		bb		
53	FUNCTION1 PFK	26.40	1.679e4					0.7	NO		bb		
54	FUNCTION1 PFK	26.32	9.414e3					0.6	NO		bb		
55	FUNCTION1 PFK	26.18	2.178e4					1.0	NO		db		
56	FUNCTION1 PFK	26.14	1.887e4					1.1	NO		bd		
57	FUNCTION1 PFK	27.98	3.090e3					0.4	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.39	1.483e4					1.1	NO		db		0.000
2	FUNCTION3 PFK	34.35	2.582e4					1.3	NO		bd		0.000
3	FUNCTION3 PFK	34.26	2.395e4					1.1	NO		bb		0.000
4	FUNCTION3 PFK	34.15	1.551e4					1.0	NO		db		0.000
5	FUNCTION3 PFK	34.09	2.978e3					0.4	NO		bd		0.000
6	FUNCTION3 PFK	33.87	2.703e4					1.3	NO		db		0.000
7	FUNCTION3 PFK	33.76	2.846e4					1.4	NO		dd		0.000
8	FUNCTION3 PFK	33.70	9.928e3					0.9	NO		bd		0.000
9	FUNCTION3 PFK	33.66	2.430e3					0.5	NO		bb		0.000
10	FUNCTION3 PFK	33.47	5.051e4					0.9	NO		db		0.000
11	FUNCTION3 PFK	33.37	2.100e4					1.4	NO		bd		0.000
12	FUNCTION3 PFK	33.17	1.358e4					1.0	NO		db		0.000
13	FUNCTION3 PFK	33.13	8.975e3					0.9	NO		bd		0.000
14	FUNCTION3 PFK	35.80	8.372e3					0.8	NO		bb		0.000
15	FUNCTION3 PFK	35.71	2.156e4					1.3	NO		db		0.000
16	FUNCTION3 PFK	35.67	2.235e4					1.3	NO		bd		0.000
17	FUNCTION3 PFK	35.59	9.805e3					0.8	NO		bb		0.000
18	FUNCTION3 PFK	35.53	4.290e3					0.5	NO		bb		0.000
19	FUNCTION3 PFK	35.33	9.302e3					1.0	NO		db		0.000
20	FUNCTION3 PFK	35.30	1.165e4					1.0	NO		bd		0.000
21	FUNCTION3 PFK	35.25	5.126e3					0.7	NO		bb		0.000
22	FUNCTION3 PFK	35.14	1.556e4					0.8	NO		bb		0.000
23	FUNCTION3 PFK	35.10	5.550e3					0.6	NO		bb		0.000
24	FUNCTION3 PFK	35.06	1.779e3					0.4	NO		bb		0.000
25	FUNCTION3 PFK	34.91	4.171e3					0.5	NO		bb		0.000
26	FUNCTION3 PFK	34.86	1.499e4					1.4	NO		bb		0.000
27	FUNCTION3 PFK	34.81	6.634e3					0.6	NO		bb		0.000
28	FUNCTION3 PFK	34.58	1.500e4					1.1	NO		bb		0.000
29	FUNCTION3 PFK	34.53	1.395e3					0.3	NO		bb		0.000
30	FUNCTION3 PFK	37.08	1.137e4					1.0	NO		dd		0.000
31	FUNCTION3 PFK	36.99	7.110e4					2.2	NO		bd		0.000
32	FUNCTION3 PFK	36.92	2.314e3					0.5	NO		bb		0.000
33	FUNCTION3 PFK	36.88	7.392e3					0.6	NO		db		0.000
34	FUNCTION3 PFK	36.81	7.817e3					0.4	NO		bd		0.000
35	FUNCTION3 PFK	36.77	1.226e4					0.8	NO		bb		0.000
36	FUNCTION3 PFK	36.61	7.220e4					1.7	NO		bb		0.000
37	FUNCTION3 PFK	36.40	2.247e4					1.6	NO		bb		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	36.31	3.432e4					1.8	NO		db		0.000
39	FUNCTION3 PFK	36.24	7.551e4					2.3	NO		dd		0.000
40	FUNCTION3 PFK	36.14	2.231e4					1.5	NO		dd		0.000
41	FUNCTION3 PFK	36.11	4.985e4					2.3	NO		dd		0.000
42	FUNCTION3 PFK	36.04	1.685e4					1.5	NO		dd		0.000
43	FUNCTION3 PFK	36.00	8.077e4					2.9	NO		dd		0.000
44	FUNCTION3 PFK	35.92	1.428e4					1.1	NO		dd		0.000
45	FUNCTION3 PFK	35.89	1.321e4					0.9	NO		bd		0.000
46	FUNCTION3 PFK	37.91	1.145e4					1.0	NO		bb		0.000
47	FUNCTION3 PFK	37.83	2.759e4					1.3	NO		bb		0.000
48	FUNCTION3 PFK	37.75	1.842e3					0.4	NO		bb		0.000
49	FUNCTION3 PFK	37.67	1.331e3					0.3	NO		bb		0.000
50	FUNCTION3 PFK	37.58	1.178e4					0.7	NO		bb		0.000
51	FUNCTION3 PFK	37.52	1.786e3					0.4	NO		bb		0.000
52	FUNCTION3 PFK	37.38	1.181e4					0.8	NO		bb		0.000
53	FUNCTION3 PFK	37.32	2.852e3					0.5	NO		db		0.000
54	FUNCTION3 PFK	37.29	1.067e4					0.9	NO		bd		0.000
55	FUNCTION3 PFK	37.12	1.332e4					1.1	NO		db		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.07	3.839e5					9.7	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.91	3.198e3					0.9	NO		bb		
2	FUNCTION5 PFK	44.44	5.621e3					1.1	NO		bb		
3	FUNCTION5 PFK	43.72	1.296e3					0.7	NO		bb		
4	FUNCTION5 PFK	46.00	2.951e3					0.9	NO		bb		
5	FUNCTION5 PFK	45.63	1.092e3					0.6	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.32	1.271e2					3.2	YES		db		0.000
2	FUNCTION1 HXCD...	27.27	1.266e2					3.9	YES		bd		0.000
3	FUNCTION1 HXCD...	26.97	8.256e1					1.6	NO		bb		0.000
4	FUNCTION1 HXCD...	26.55	4.280e2					6.1	YES		bb		0.000
5	FUNCTION1 HXCD...	26.02	1.029e2					2.7	NO		db		0.000
6	FUNCTION1 HXCD...	25.90	2.502e2					4.4	YES		dd		0.000
7	FUNCTION1 HXCD...	25.72	2.101e2					3.6	YES		bd		0.000
8	FUNCTION1 HXCD...	23.72	8.529e1					3.0	YES		bb		0.000
9	FUNCTION1 HXCD...	22.99	9.923e1					2.5	NO		bb		0.000
10	FUNCTION1 HXCD...	22.00	7.560e1					1.7	NO		db		0.000
11	FUNCTION1 HXCD...	21.89	1.928e2					3.3	YES		bd		0.000
12	FUNCTION1 HXCD...	21.10	1.048e2					3.0	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.67	7.036e1					1.9	NO		db		0.000
2	FUNCTION1 HPCD...	26.53	4.357e2					5.6	YES		bd		0.000
3	FUNCTION1 HPCD...	25.91	1.719e2					2.5	NO		bb		0.000
4	FUNCTION1 HPCD...	25.70	1.553e2					2.9	NO		bb		0.000
5	FUNCTION1 HPCD...	24.63	1.444e2					3.1	YES		bb		0.000
6	FUNCTION1 HPCD...	24.20	7.285e1					2.2	NO		bb		0.000
7	FUNCTION1 HPCD...	23.45	7.383e1					2.1	NO		bb		0.000
8	FUNCTION1 HPCD...	23.34	1.346e2					1.9	NO		bb		0.000
9	FUNCTION1 HPCD...	22.31	1.729e2					2.3	NO		bb		0.000
10	FUNCTION1 HPCD...	22.01	7.908e1					1.1	NO		bb		0.000
11	FUNCTION1 HPCD...	21.22	1.137e2					3.5	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.40	9.562e2					13.4	YES		dd		0.000
2	FUNCTION2 HPCD...	31.27	1.162e4					218.9	YES		bd		0.000
3	FUNCTION2 HPCD...	30.07	9.742e2					11.5	YES		bb		0.000
4	FUNCTION2 HPCD...	28.81	1.484e2					3.1	YES		bb		0.000
5	FUNCTION2 HPCD...	32.66	5.798e2					8.9	YES		bb		0.000
6	FUNCTION2 HPCD...	31.65	1.260e3					18.3	YES		db		0.000

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ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.03	6.482e2					9.9	YES		bb		0.000
2	FUNCTION3 OCDPE	36.61	1.390e3					18.8	YES		bb		0.000
3	FUNCTION3 OCDPE	36.23	1.589e3					24.2	YES		db		0.000
4	FUNCTION3 OCDPE	36.12	1.347e3					19.9	YES		dd		0.000
5	FUNCTION3 OCDPE	36.01	6.921e2					11.8	YES		bd		0.000
6	FUNCTION3 OCDPE	35.14	1.254e3					15.1	YES		db		0.000
7	FUNCTION3 OCDPE	35.01	7.695e2					12.4	YES		bd		0.000
8	FUNCTION3 OCDPE	33.86	1.826e2					4.0	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.12	8.339e2					10.8	YES		bb		0.000
2	FUNCTION4 NCDPE	40.38	7.844e2					14.4	YES		bb		0.000
3	FUNCTION4 NCDPE	39.21	1.191e2					4.5	YES		bb		0.000
4	FUNCTION4 NCDPE	38.86	6.704e2					11.4	YES		bb		0.000
5	FUNCTION4 NCDPE	41.43	1.172e2					3.2	YES		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.38	2.060e3					22.7	YES		db		0.000
2	FUNCTION5 DCDPE	45.15	2.089e3					25.1	YES		bd		0.000
3	FUNCTION5 DCDPE	44.92	7.340e1					3.7	YES		bb		0.000

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Printed: Friday, February 03, 2023 10:38:07 Pacific Standard Time

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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

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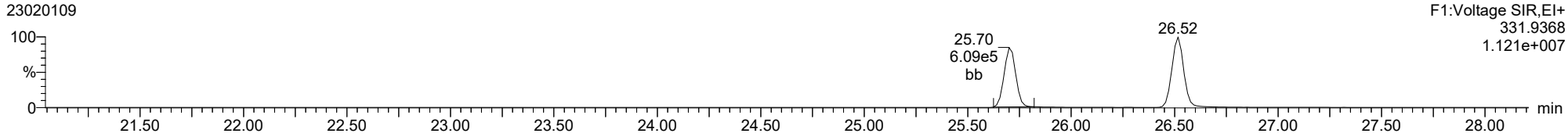

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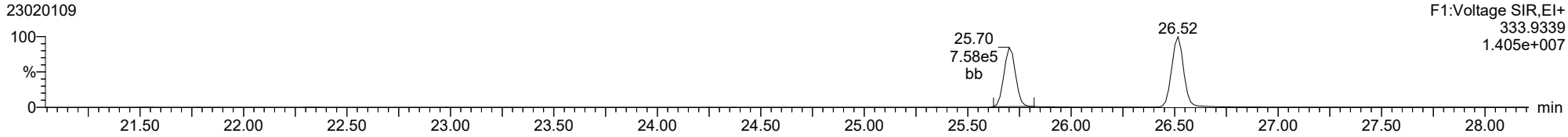

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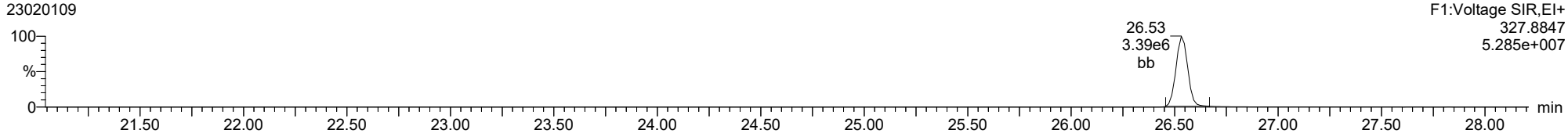

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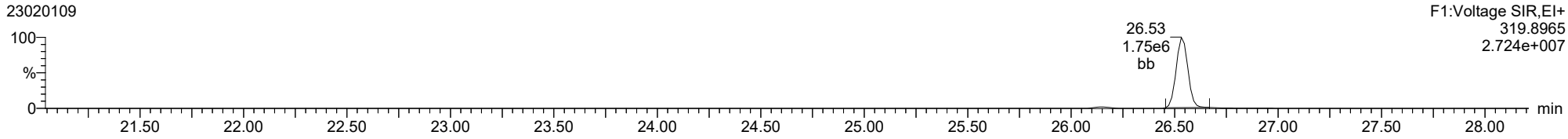

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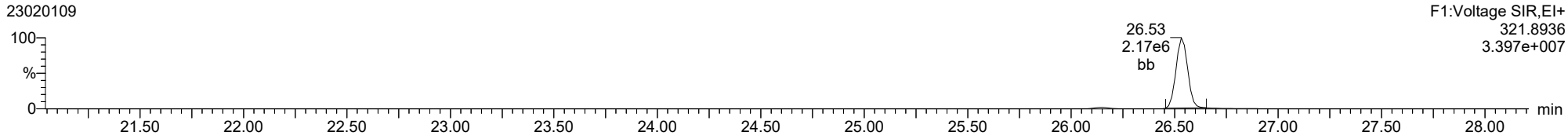

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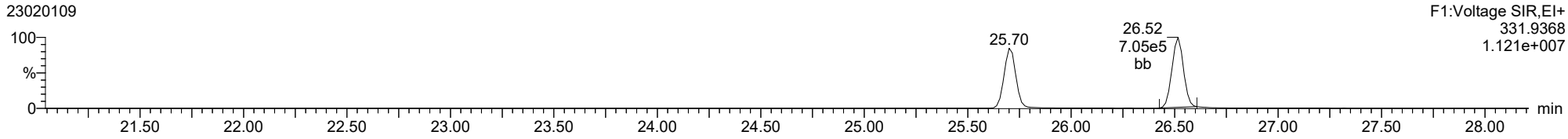

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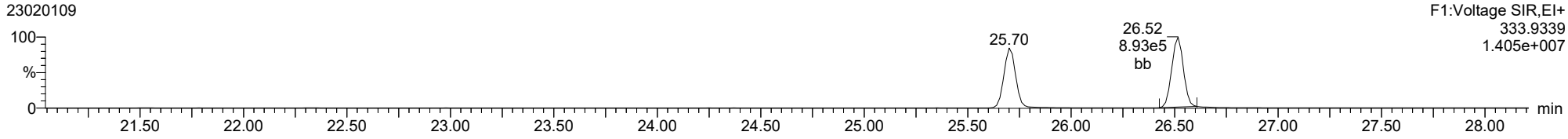

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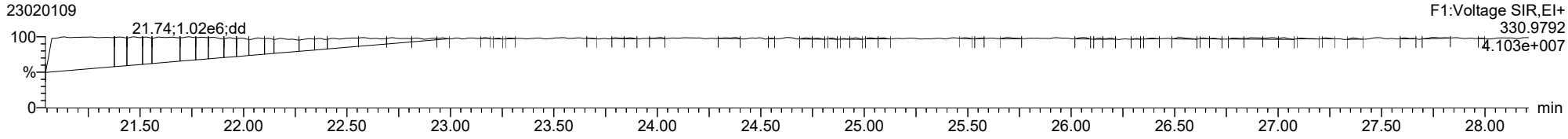

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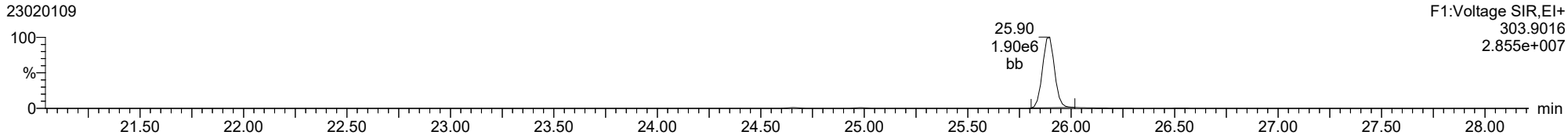

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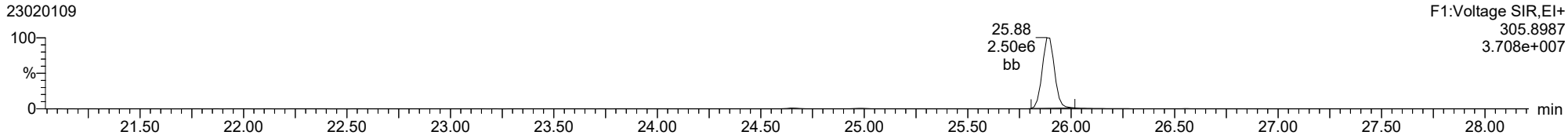

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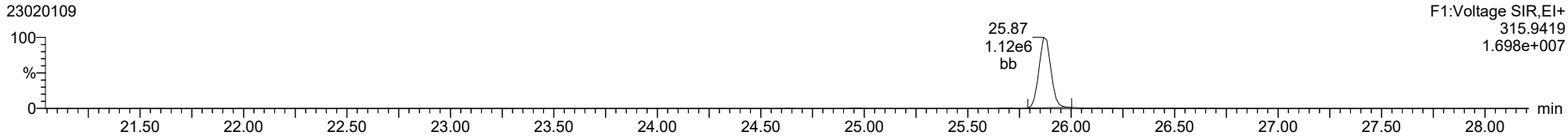

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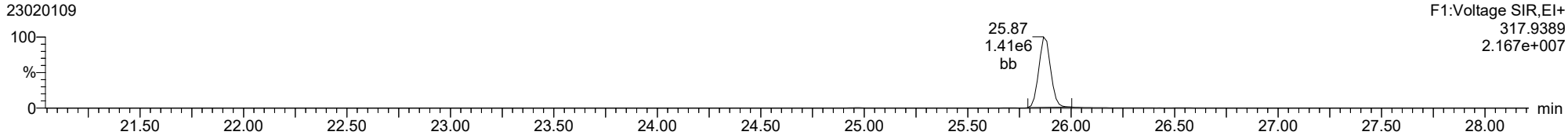

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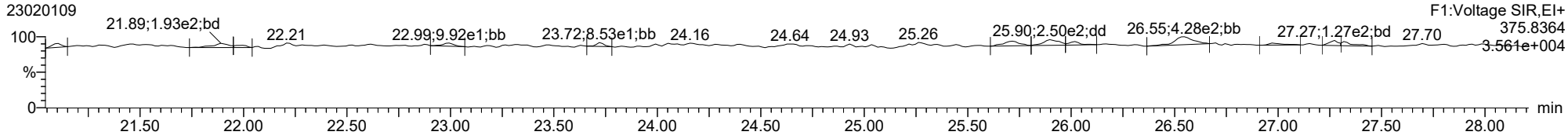

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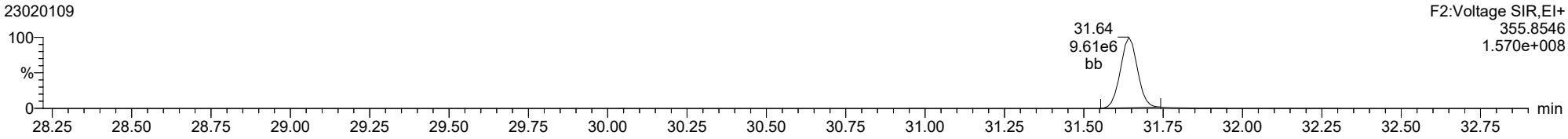

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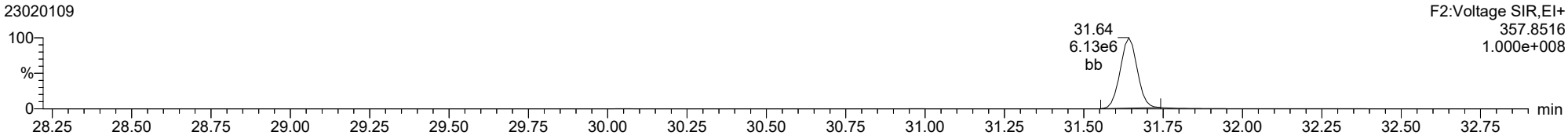

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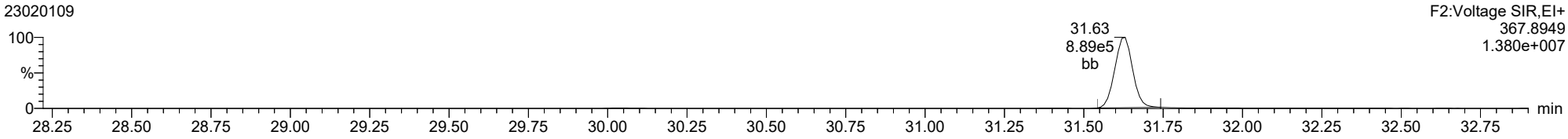

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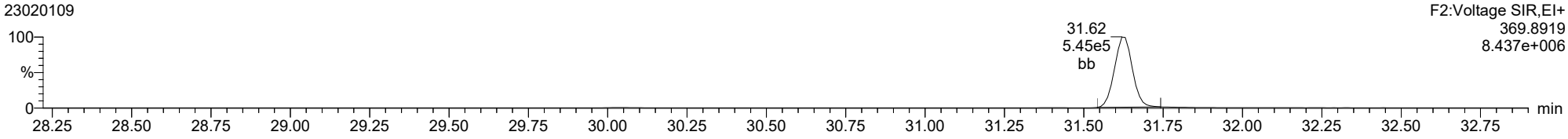

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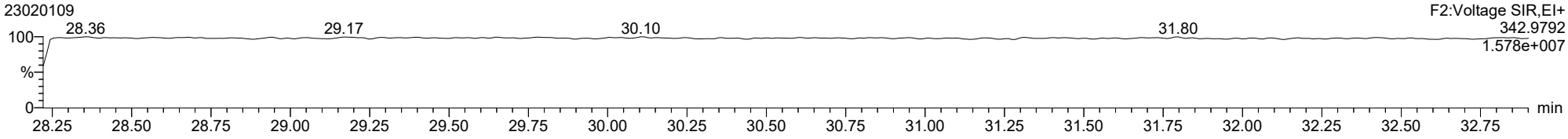

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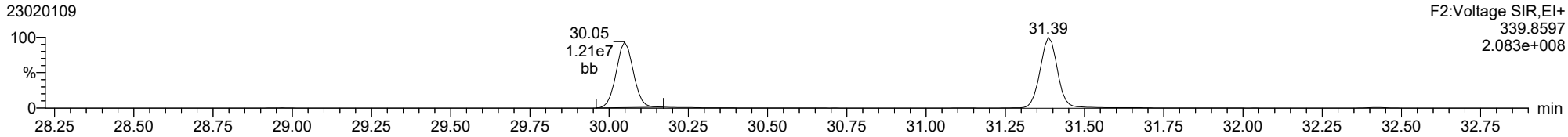

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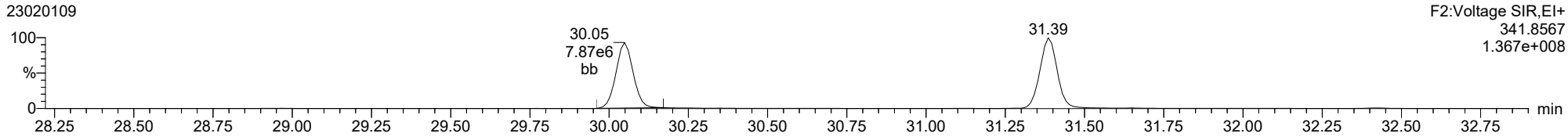

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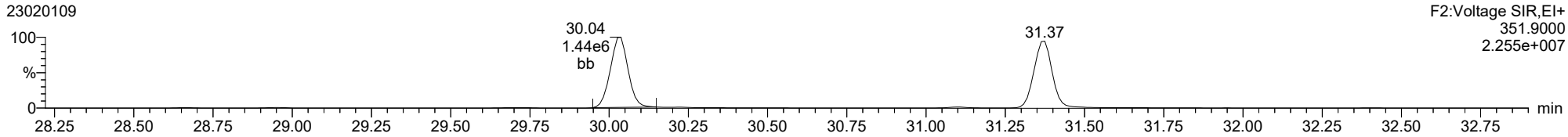

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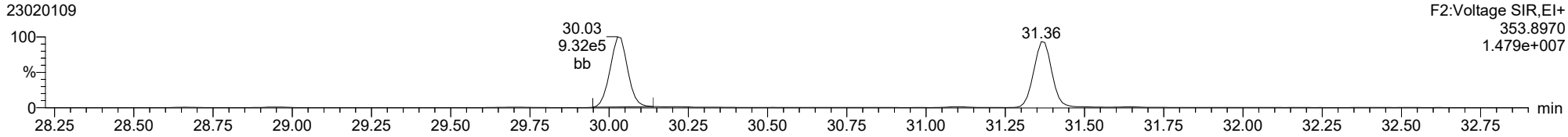

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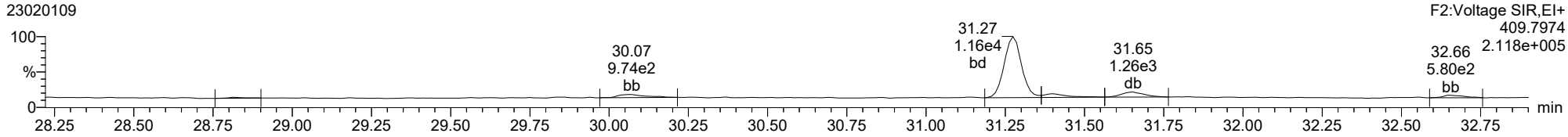

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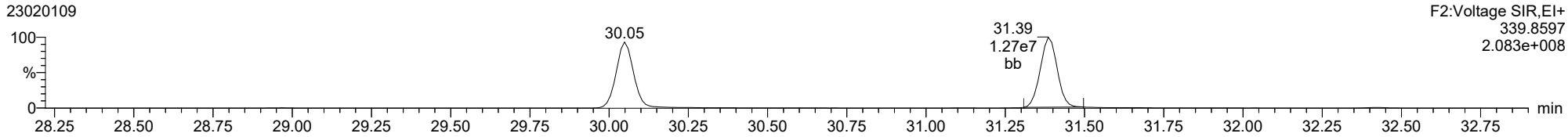
23478-PeCDF



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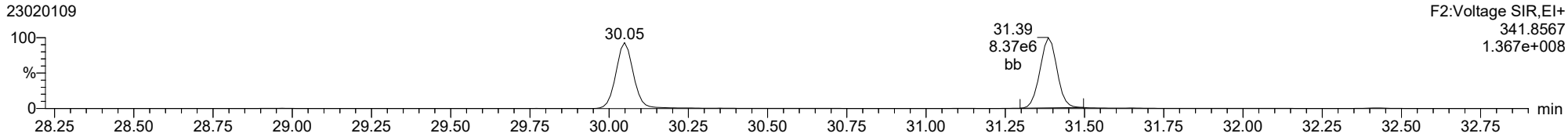

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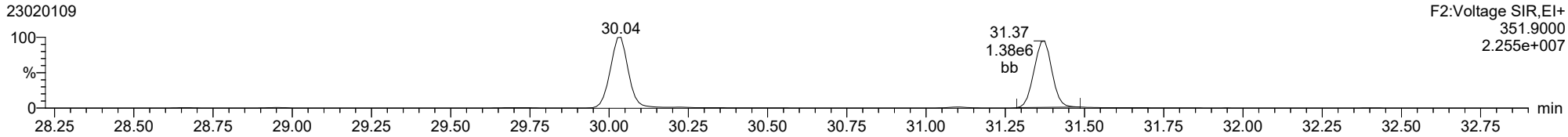

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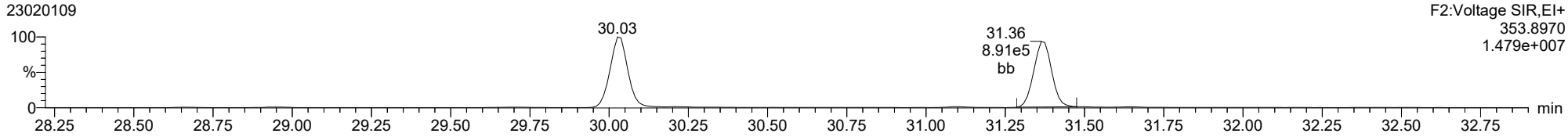

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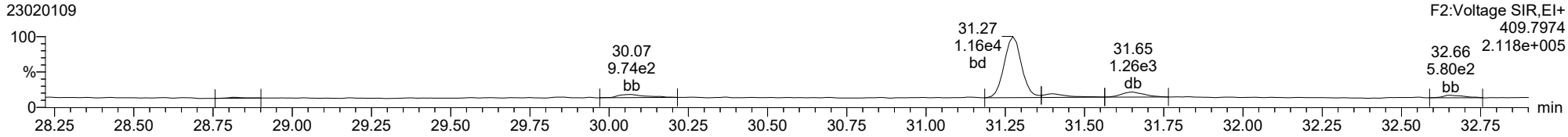

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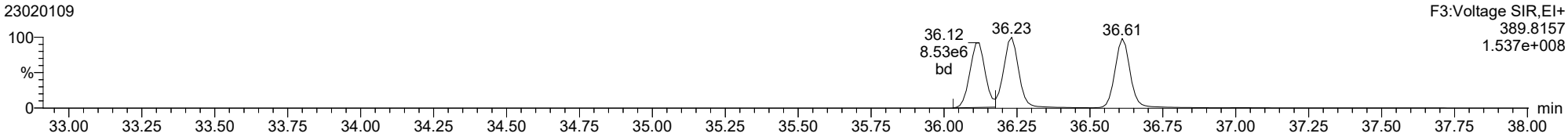

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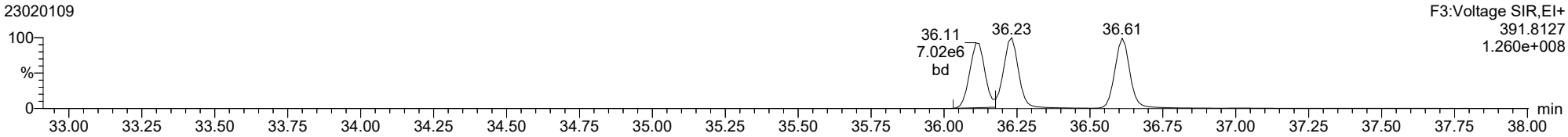

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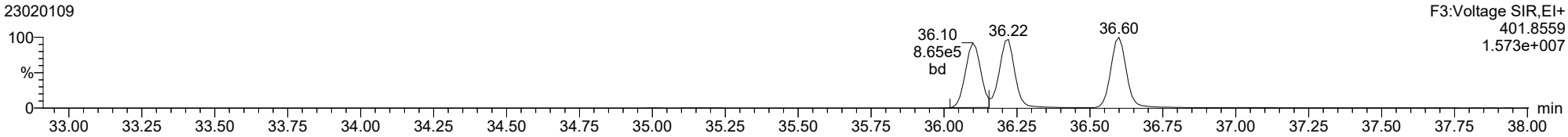

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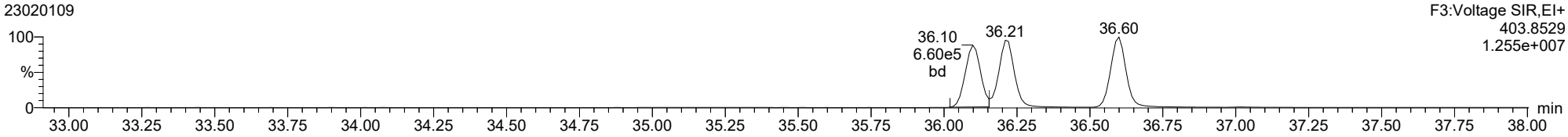

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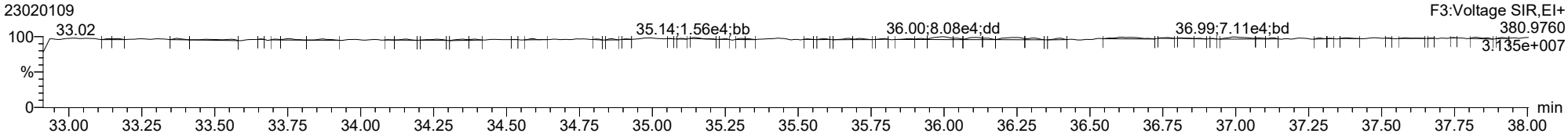

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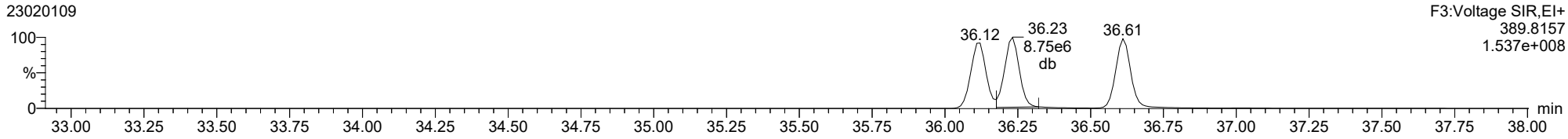

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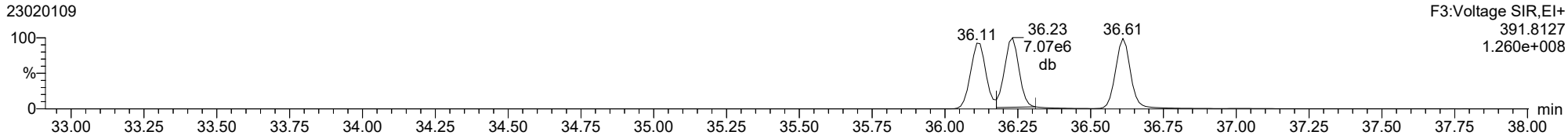

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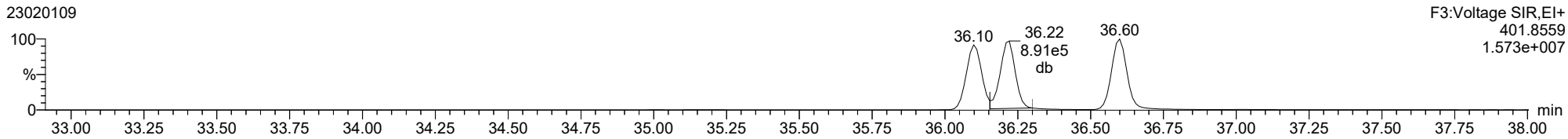

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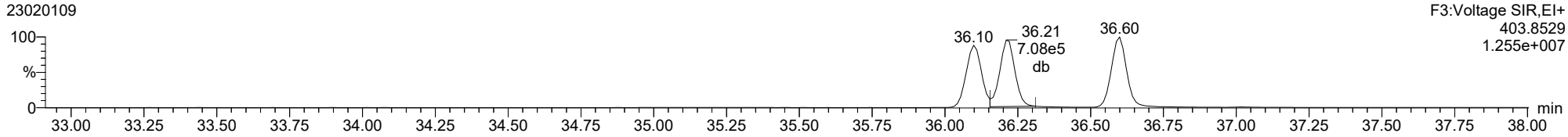

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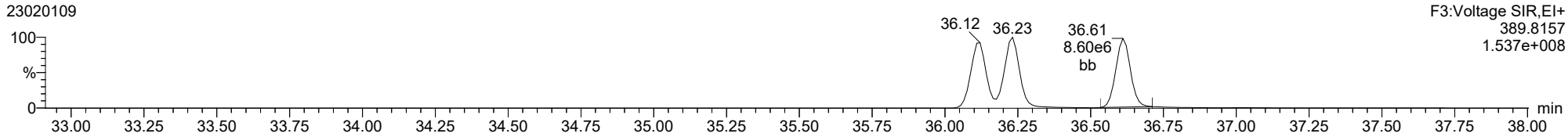

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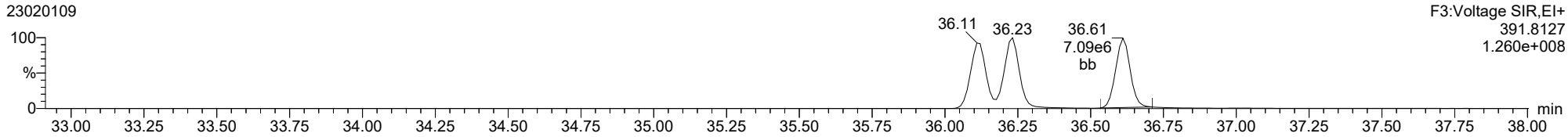

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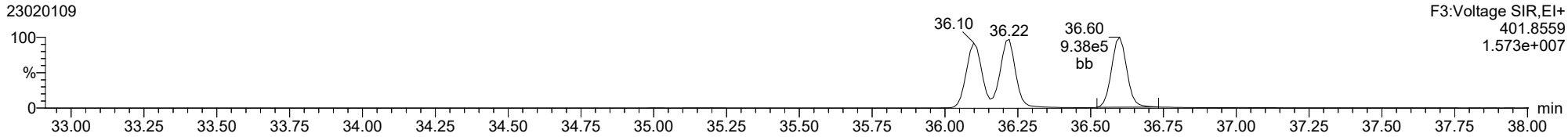

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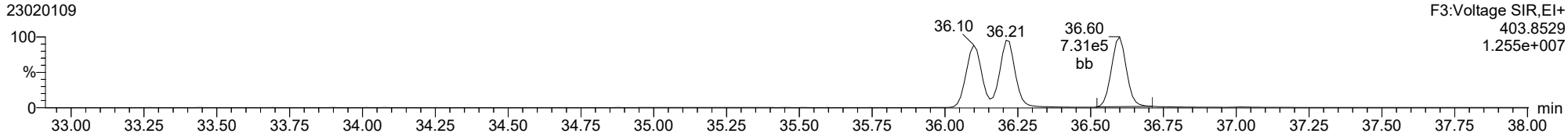

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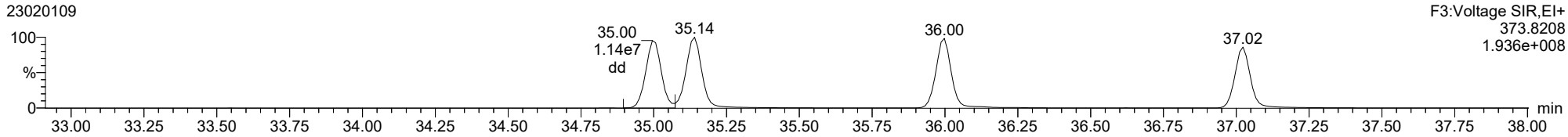

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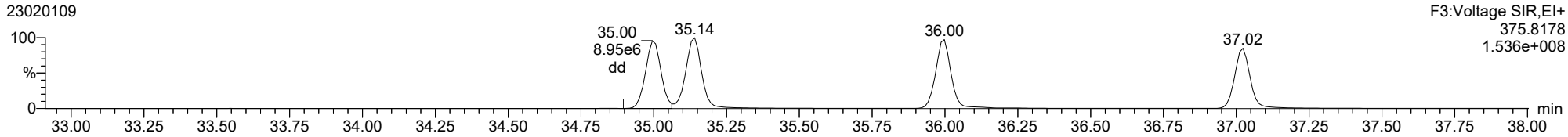

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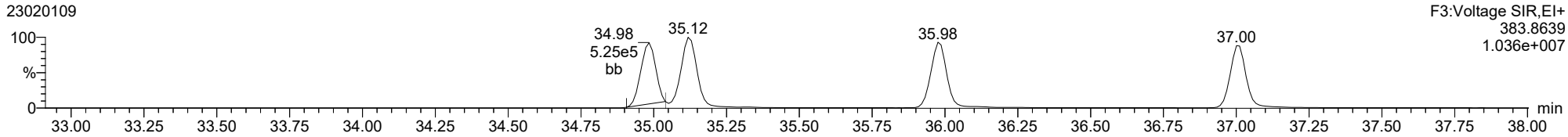

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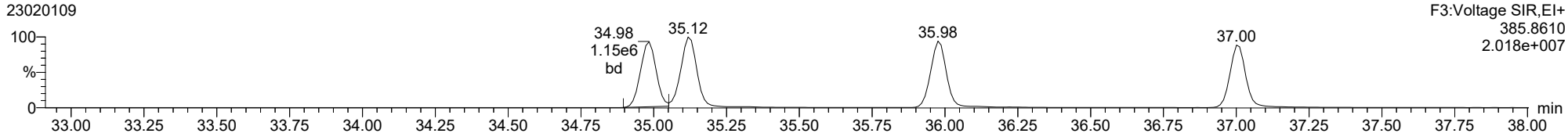

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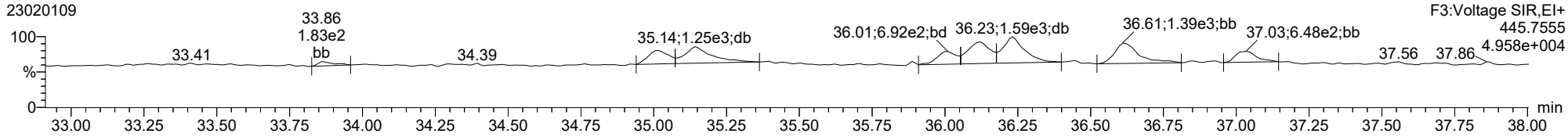

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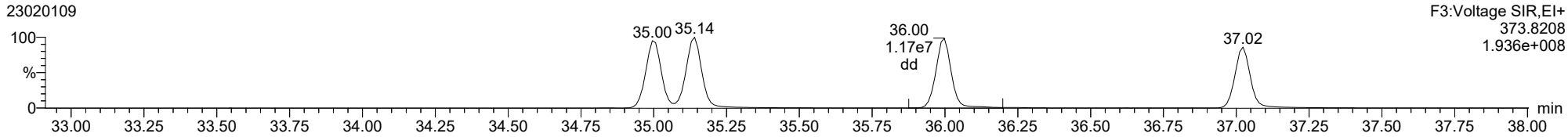
234678-HxCDF



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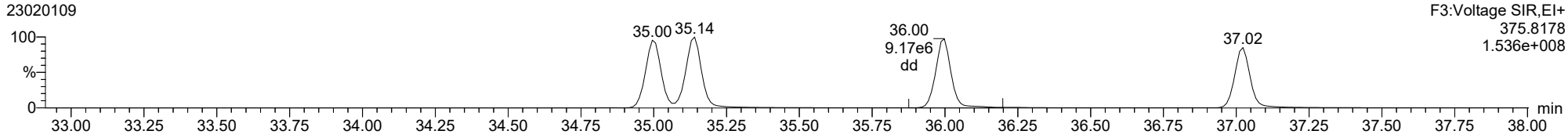

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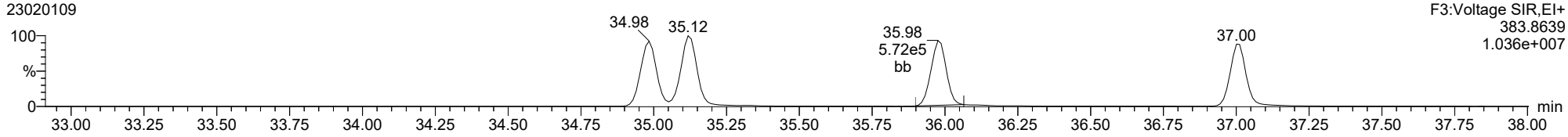

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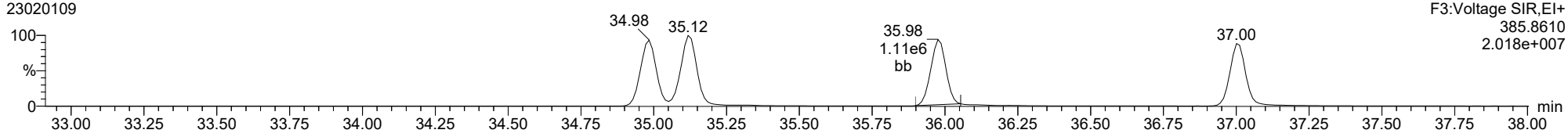
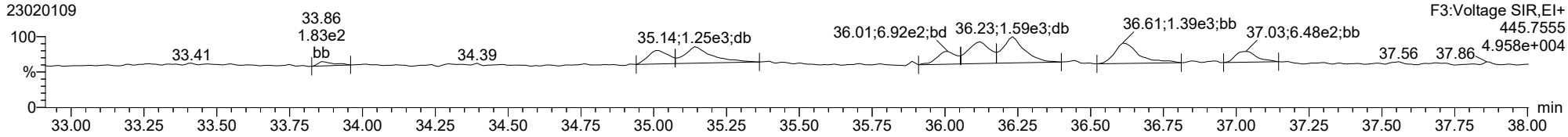


FUNCTION3 OCDPE



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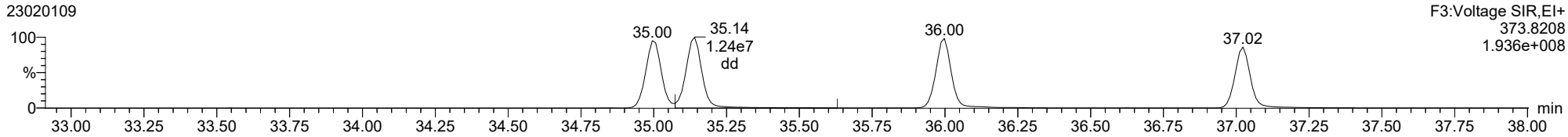

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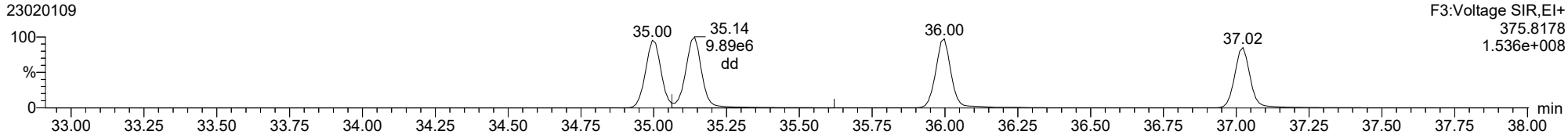

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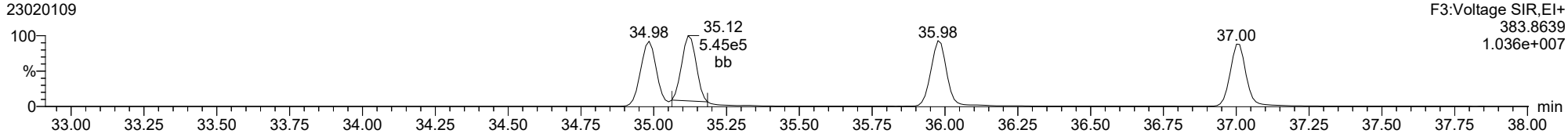

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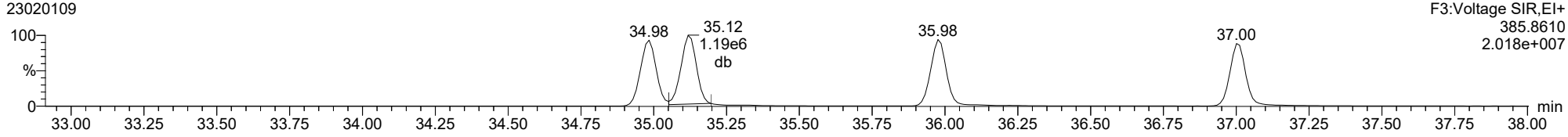

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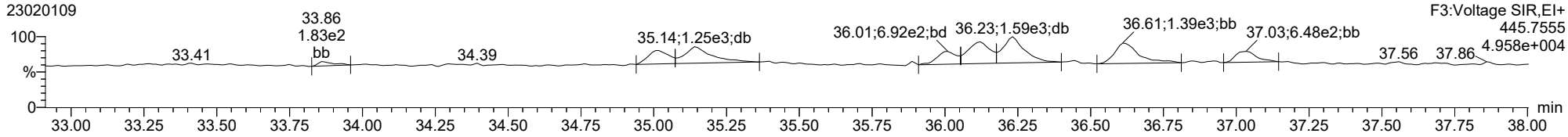

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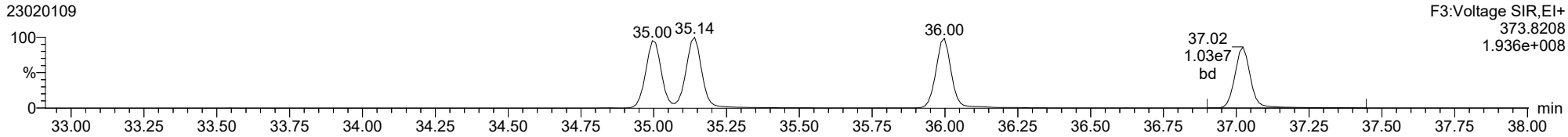

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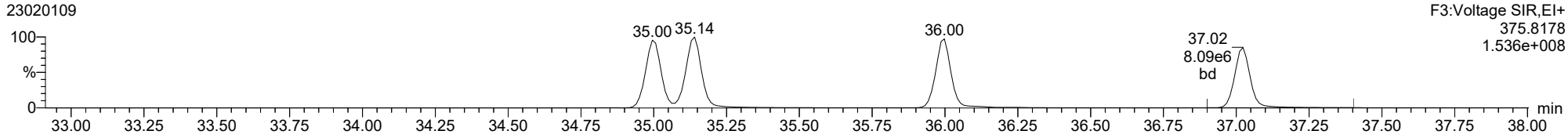

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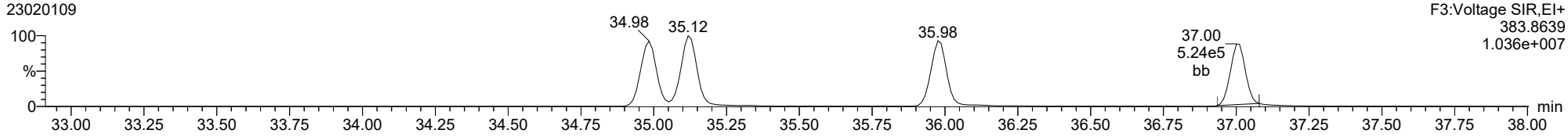

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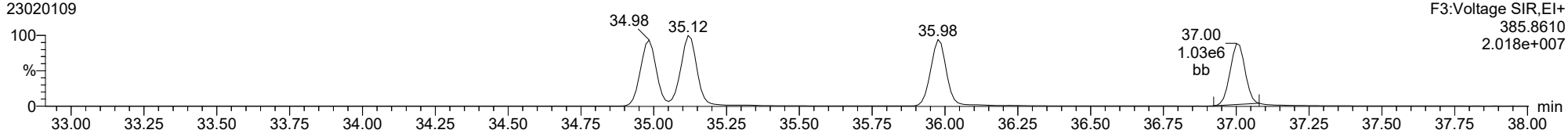
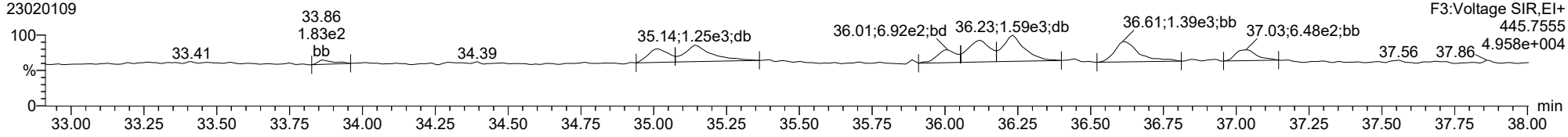


FUNCTION3 OCDPE



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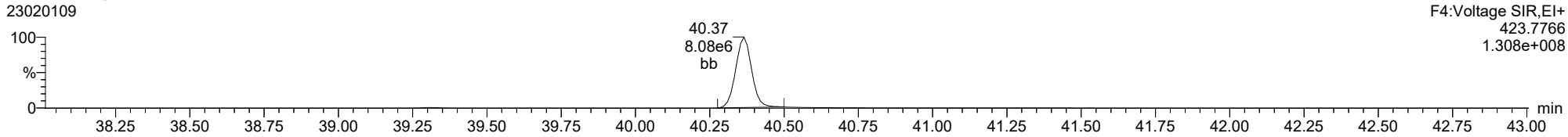
1234678-HpCDD



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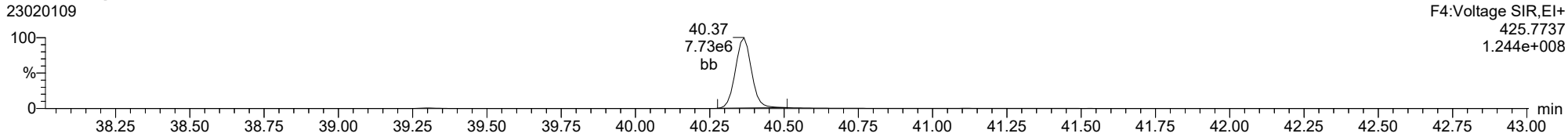

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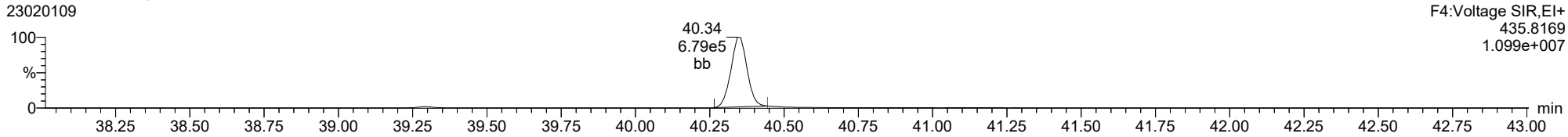

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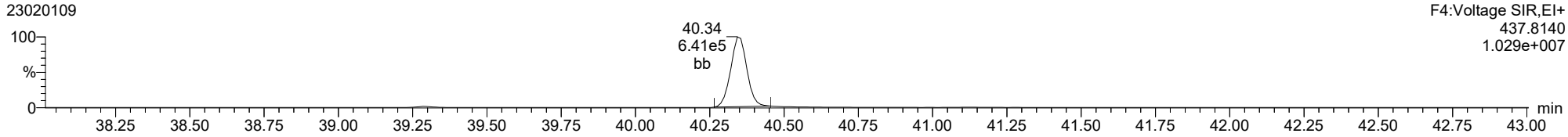
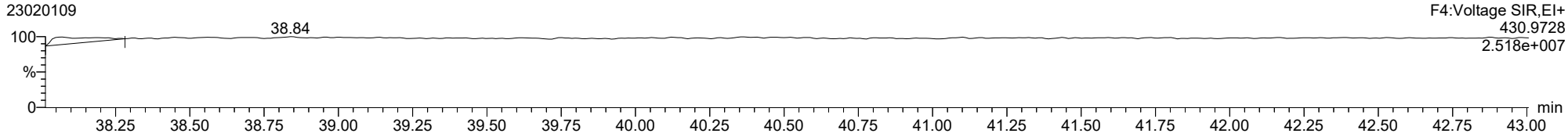


FUNCTION4 PFK



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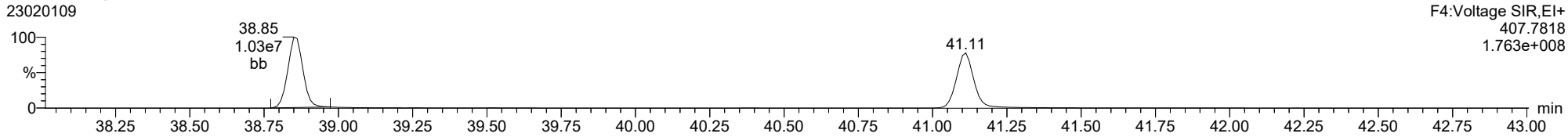

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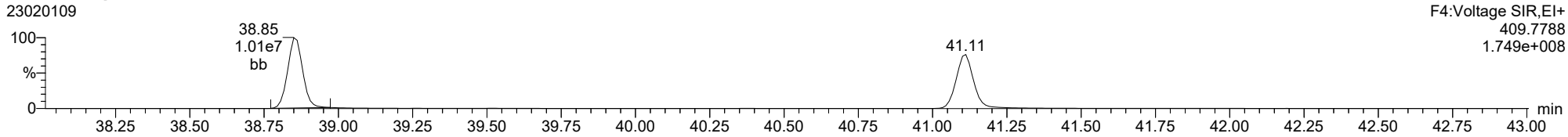

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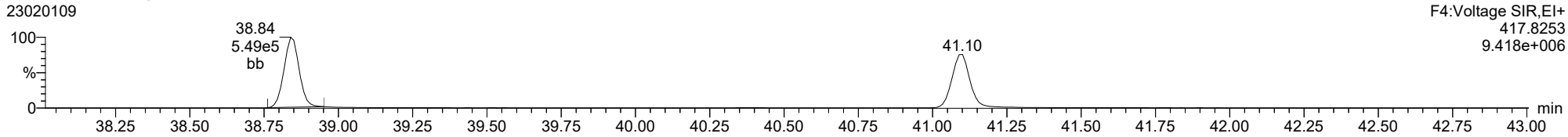

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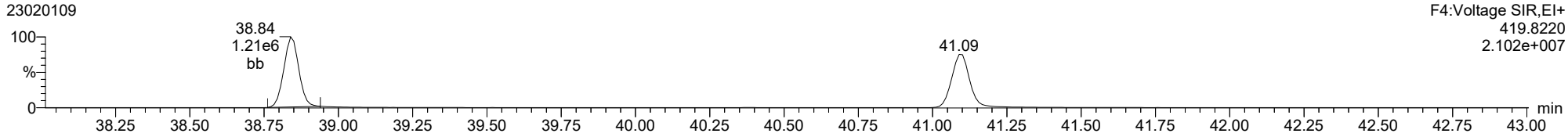
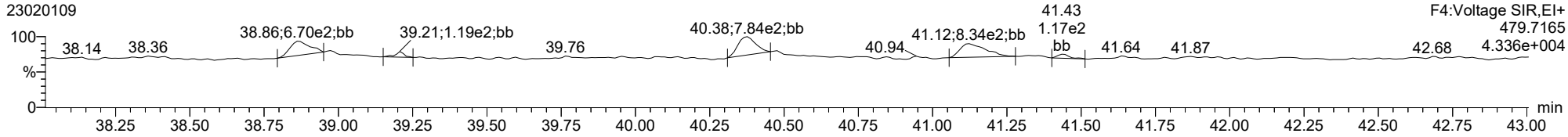


FUNCTION4 NCDPE



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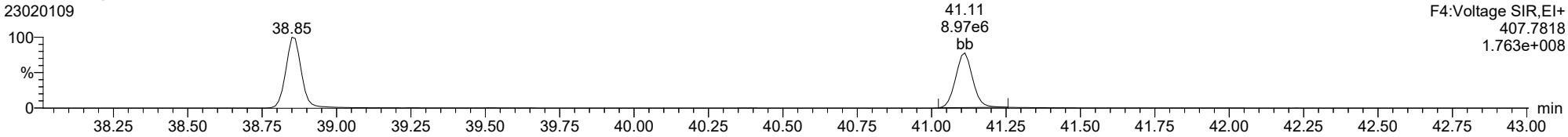

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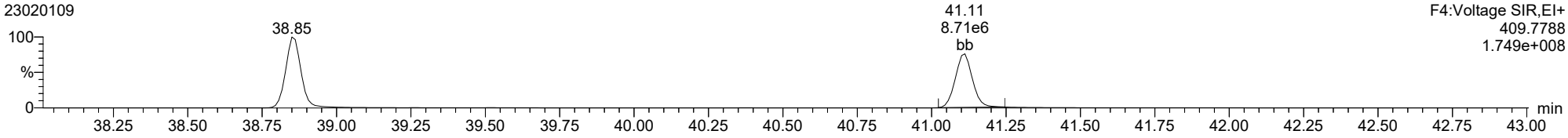

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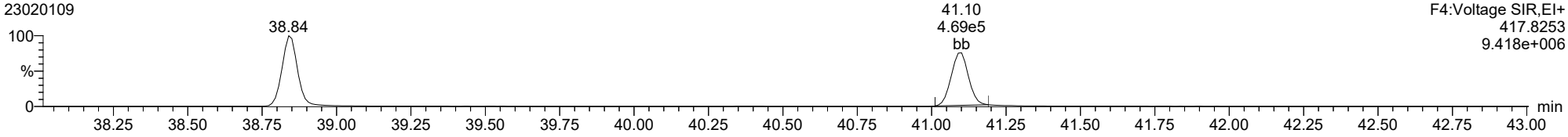

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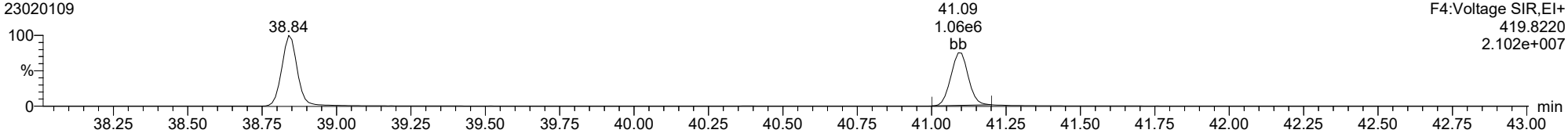
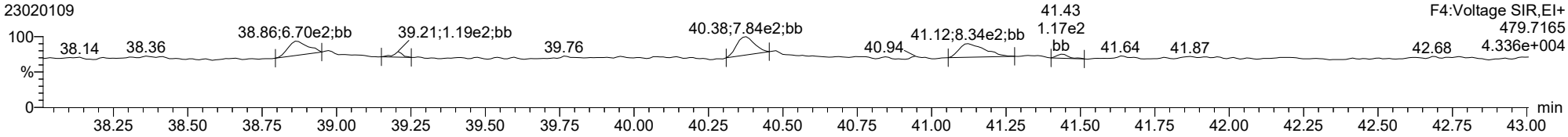


FUNCTION4 NCDPE



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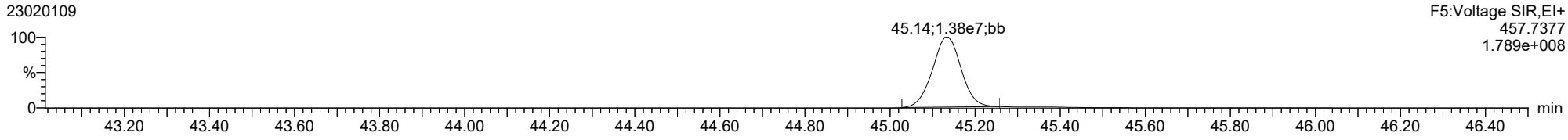

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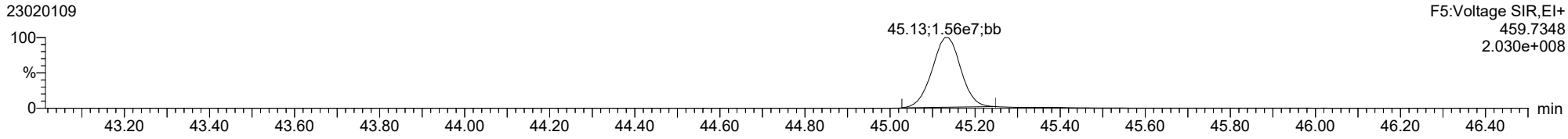

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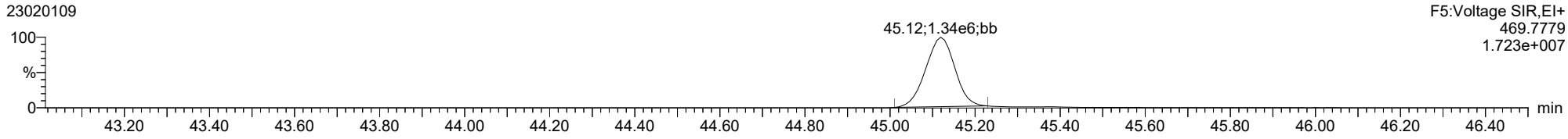

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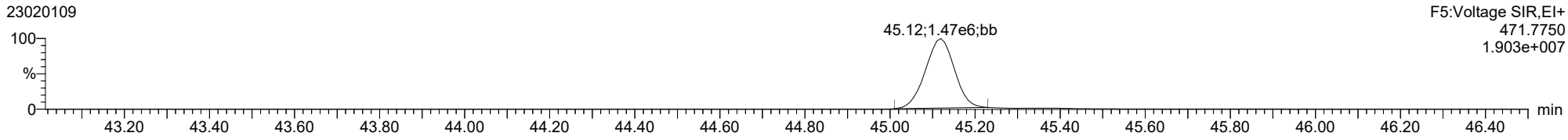
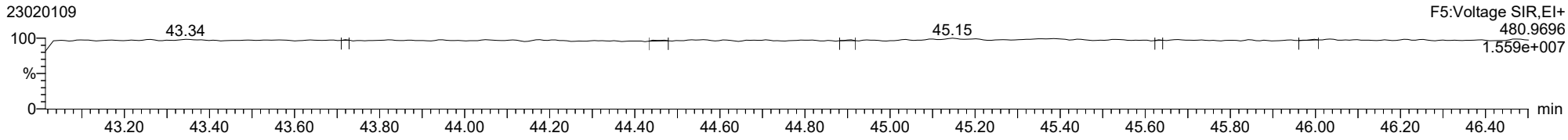


FUNCTION5 PFK



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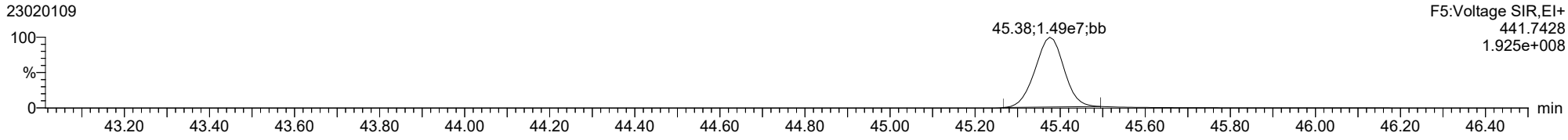
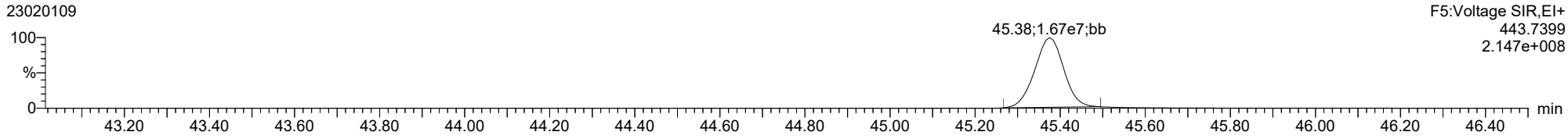
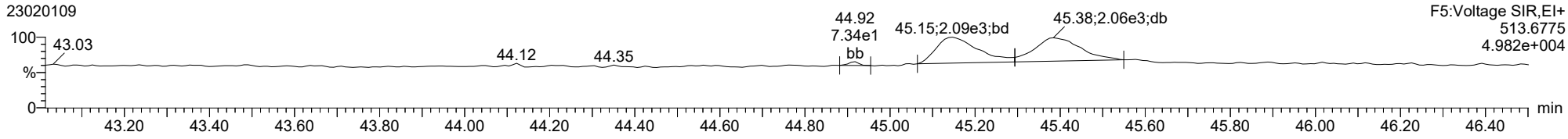


OCDF



FUNCTION5 DCDPE



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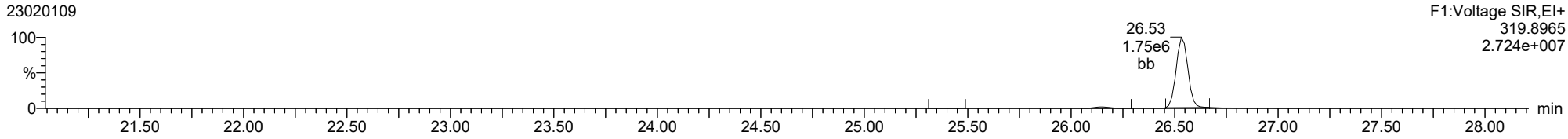
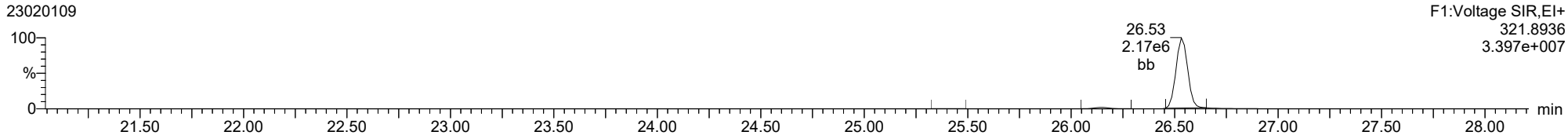
Total-tetradioxins



Total-tetradioxins



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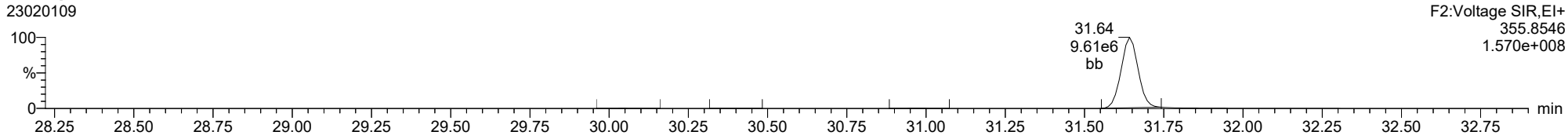

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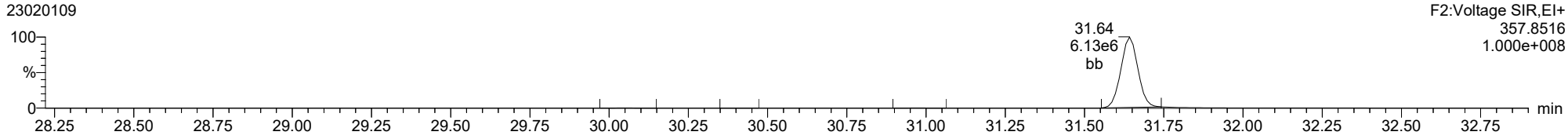

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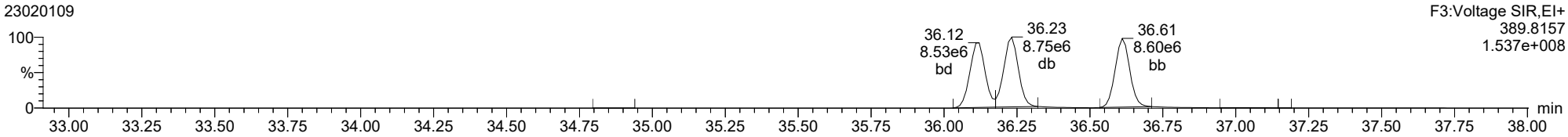
Total-hexadioxins



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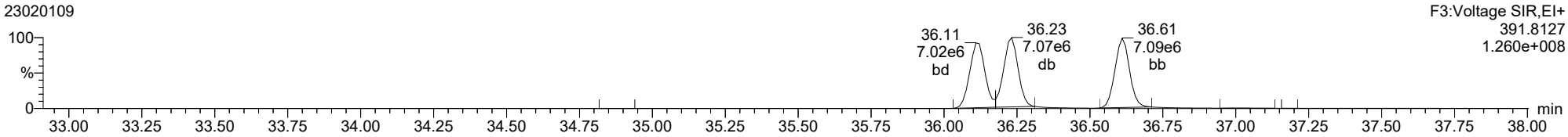

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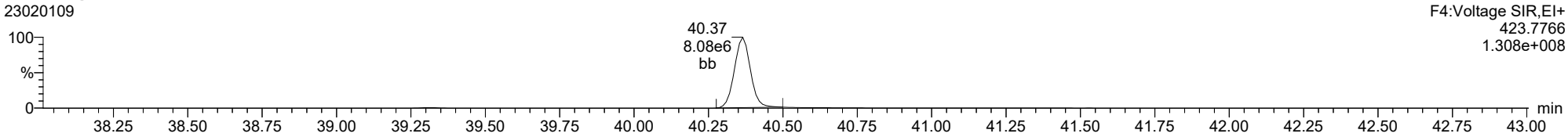

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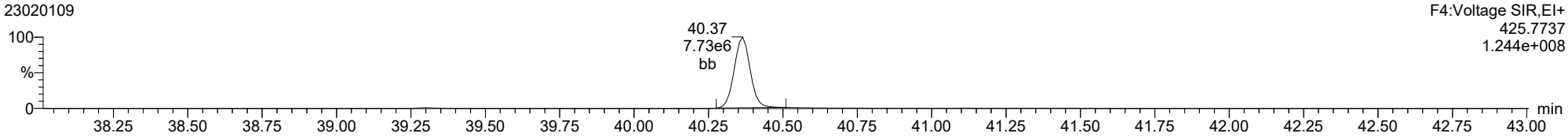

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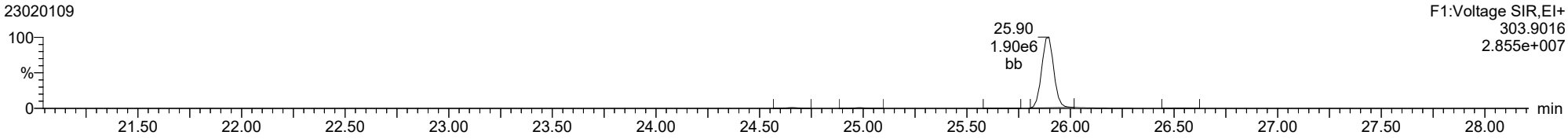
Printed: Friday, February 03, 2023 10:38:07 Pacific Standard Time

ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



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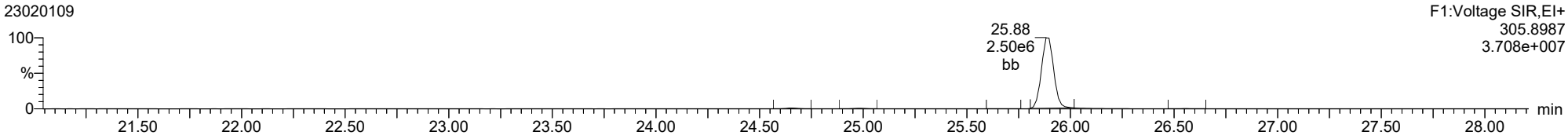

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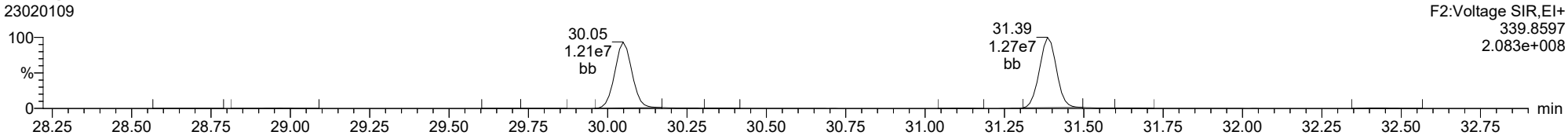

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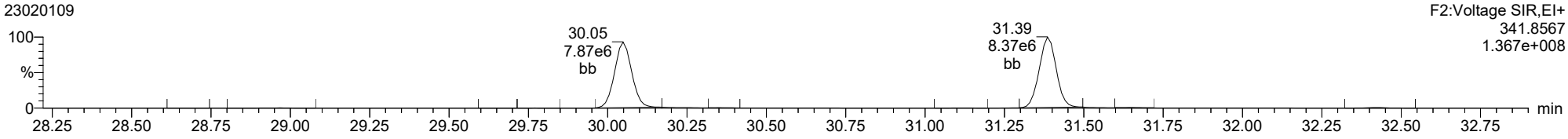
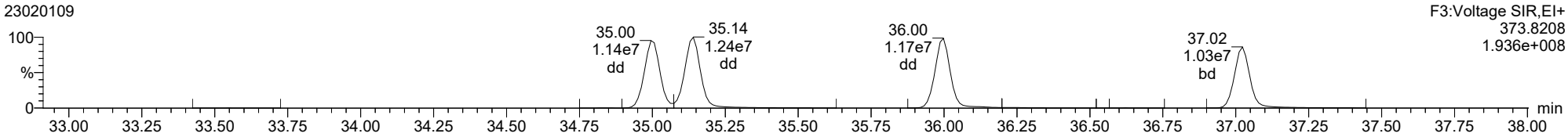


ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

Total-hexafurans



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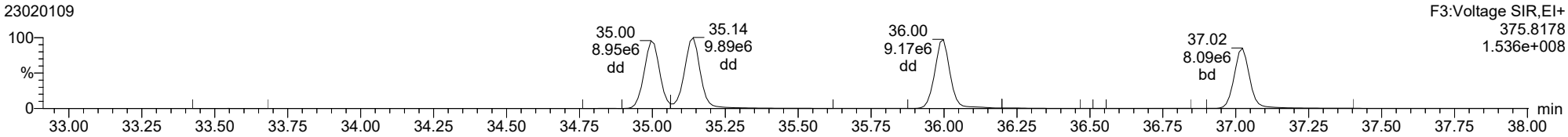

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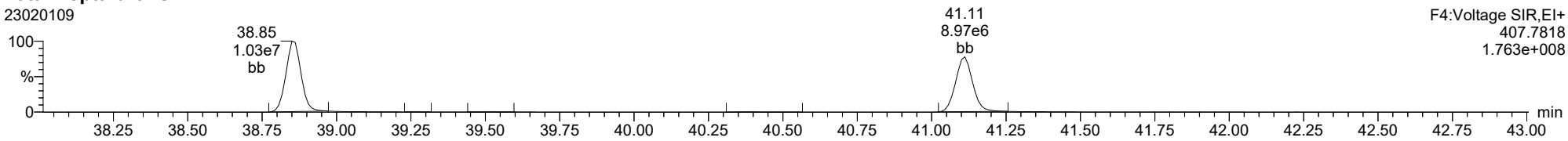

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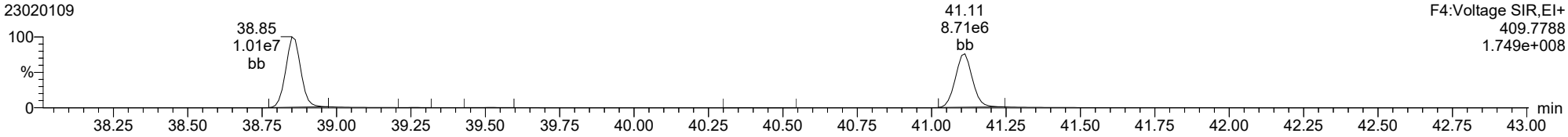

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Printed: Friday, February 03, 2023 11:23:11 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	7.583e4	1.018e5	0.876	0.744	0.770	1312	1705	1.17e6	1.55e6	895.7	911.1	NO	bb	bb	9.802
12378-PeCDF	30.037	1.000	4.347e5	2.900e5	0.845	1.499	1.550	3463	2713	6.78e6	4.53e6	1956.5	1669.5	NO	bb	bb	49.435
23478-PeCDF	31.374	1.000	4.582e5	2.969e5	0.911	1.543	1.550	3463	2713	6.90e6	4.53e6	1992.7	1668.4	NO	bb	bb	50.720
123478-HxCDF	34.984	1.000	3.962e5	3.152e5	1.182	1.257	1.240	2904	2208	6.26e6	4.98e6	2155.7	2257.5	NO	bd	bd	50.838
234678-HxCDF	35.987	1.001	4.056e5	3.185e5	1.229	1.273	1.240	2904	2208	6.27e6	4.93e6	2160.6	2231.5	NO	bb	bd	51.528
123678-HxCDF	35.129	1.001	4.284e5	3.437e5	1.248	1.247	1.240	2904	2208	6.50e6	5.14e6	2238.5	2329.7	NO	dd	db	51.066
123789-HxCDF	37.012	1.001	3.438e5	2.711e5	1.187	1.268	1.240	2904	2208	5.39e6	4.21e6	1855.6	1906.8	NO	bb	bb	49.890
1234678-HpCDF	38.850	1.001	3.527e5	3.436e5	1.204	1.027	1.050	3342	3138	5.81e6	5.69e6	1739.4	1813.0	NO	bb	bb	48.984
1234789-HpCDF	41.101	1.000	3.197e5	3.013e5	1.165	1.061	1.050	3342	3138	4.62e6	4.44e6	1383.4	1415.4	NO	bd	bb	51.470
OCDF	45.357	1.006	4.733e5	5.396e5	1.186	0.877	0.890	2772	1582	5.77e6	6.54e6	2082.4	4133.4	NO	bb	bb	92.994
2378-TCDD	26.532	1.001	6.792e4	8.768e4	1.236	0.775	0.770	1380	1753	1.03e6	1.34e6	749.1	761.7	NO	bb	bb	10.105
12378-PeCDD	31.631	1.000	3.290e5	2.096e5	1.087	1.569	1.550	3204	3195	5.14e6	3.30e6	1603.9	1031.8	NO	bb	bb	48.876
123478-HxCDD	36.109	1.001	2.890e5	2.319e5	0.987	1.246	1.240	2459	2022	4.84e6	3.91e6	1968.4	1935.9	NO	bd	bd	50.975
123678-HxCDD	36.221	1.000	2.990e5	2.445e5	1.021	1.223	1.240	2459	2022	4.88e6	4.06e6	1984.4	2008.5	NO	db	db	48.307
123789-HxCDD	36.599	1.011	2.845e5	2.378e5	0.985	1.196	1.240	2459	2022	4.82e6	3.99e6	1960.3	1972.8	NO	bb	bb	49.580
1234678-HpCDD	40.354	1.001	2.858e5	2.609e5	1.253	1.095	1.050	2240	2747	4.24e6	3.98e6	1890.7	1447.3	NO	bd	bb	48.846
OCDD	45.111	1.000	4.553e5	5.144e5	1.103	0.885	0.890	2050	2803	5.81e6	6.65e6	2832.1	2371.2	NO	bb	bb	95.778
13C-2378-TCDF	25.867	1.006	9.159e5	1.153e6	1.768	0.794	0.770	2721	1646	1.40e7	1.78e7	5149.2	10794.2	NO	bb	bb	100.832
13C-12378-PeCDF	30.026	1.168	1.059e6	6.764e5	1.527	1.566	1.550	3804	2727	1.61e7	1.02e7	4228.7	3742.1	NO	bb	bb	97.924
13C-23478-PeCDF	31.363	1.220	9.914e5	6.424e5	1.466	1.543	1.550	3804	2727	1.49e7	9.56e6	3917.8	3506.2	NO	bb	bb	96.003
13C-123478-HxCDF	34.973	0.956	4.014e5	7.827e5	1.054	0.513	0.510	2311	3449	6.56e6	1.28e7	2840.4	3698.0	NO	bd	bd	98.968
13C-123678-HxCDF	35.106	0.960	4.085e5	8.030e5	1.080	0.509	0.510	2311	3449	6.64e6	1.32e7	2872.8	3823.9	NO	db	db	98.793
13C-234678-HxCDF	35.964	0.983	3.869e5	7.566e5	1.014	0.511	0.510	2311	3449	6.49e6	1.28e7	2809.7	3704.0	NO	bb	bb	99.278
13C-123789-HxCDF	36.989	1.011	3.535e5	6.852e5	0.928	0.516	0.510	2311	3449	5.90e6	1.14e7	2552.6	3318.4	NO	bb	bb	98.576
13C-1234678-HpCDF	38.828	1.061	3.652e5	8.153e5	1.036	0.448	0.440	3274	4191	6.12e6	1.38e7	1868.5	3294.0	NO	bb	bb	100.340
13C-1234789-HpCDF	41.090	1.123	3.190e5	7.164e5	0.905	0.445	0.440	3274	4191	4.81e6	1.07e7	1468.7	2563.9	NO	bb	bb	100.753
13C-1234-TCDD	25.700	0.000	5.137e5	6.469e5	1.000	0.794	0.770	2221	1552	7.96e6	9.97e6	3583.6	6423.2	NO	bb	bb	100.000
13C-2378-TCDD	26.501	1.031	5.549e5	6.905e5	1.103	0.804	0.770	2221	1552	8.40e6	1.04e7	3781.7	6727.2	NO	bb	bb	97.290
13C-12378-PeCDD	31.619	1.230	6.261e5	3.880e5	0.914	1.614	1.550	1580	2177	9.40e6	5.80e6	5947.9	2663.3	NO	bb	bb	95.581
13C-123478-HxCDD	36.087	0.986	5.808e5	4.547e5	0.933	1.277	1.240	2129	1763	9.84e6	7.81e6	4624.5	4431.4	NO	bd	bd	97.737
13C-123678-HxCDD	36.209	0.990	6.262e5	4.760e5	0.965	1.315	1.240	2129	1763	9.80e6	7.57e6	4603.5	4292.7	NO	db	db	100.625
13C-1234678-HpCDD	40.332	1.102	4.634e5	4.302e5	0.782	1.077	1.050	2527	2271	7.13e6	6.69e6	2821.9	2945.0	NO	bb	bb	100.628
13C-OCDD	45.101	1.233	8.768e5	9.596e5	0.788	0.914	0.890	3549	1603	1.12e7	1.23e7	3153.1	7665.3	NO	bb	bb	205.165
13C-123789-HxCDD	36.588	0.000	6.499e5	4.857e5	1.000	1.338	1.240	2129	1763	1.03e7	7.92e6	4860.1	4494.5	NO	bb	bb	100.000
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Dataset: T:\Autospec\Processed Data Batch\230201ICVIH.qld
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.389	0.866	9.960e4	1.319e5	1.064	0.755	0.770	1312	1705	1.56e6	2.09e6	1186.8	1226.5	NO	bb	bb	10.509
1289-TCDF	27.378	1.058	7.533e4	1.022e5	0.858	0.737	0.770	1312	1705	1.14e6	1.52e6	867.5	889.5	NO	db	db	10.006
13468-PECDF	27.242	0.907	5.475e5	3.540e5	1.013	1.547	1.550	880	1149	8.31e6	5.37e6	9441.4	4673.6	NO	bb	bb	51.279
12389-PECDF					0.844		1.550	3463	2713								
123468-HXCDF	33.335	0.953	4.175e5	3.320e5	1.197	1.258	1.240	2904	2208	6.11e6	4.84e6	2104.7	2190.3	NO	bb	bb	52.862
1368-TCDD	23.659	0.893	6.883e4	8.714e4	1.084	0.790	0.770	1380	1753	1.12e6	1.44e6	811.7	819.2	NO	bb	bb	11.549
1289-TCDD	27.122	1.023	6.029e4	7.860e4	0.975	0.767	0.770	1380	1753	8.98e5	1.15e6	650.5	656.0	NO	bb	bd	11.436
12479-PECDD	28.912	0.914	6.082e5	3.865e5	1.837	1.574	1.550	3204	3195	5.92e6	3.73e6	1847.3	1168.6	NO	bb	bb	53.387
12389-PECDD	32.032	1.013	4.002e5	2.572e5	1.252	1.556	1.550	3204	3195	6.11e6	3.89e6	1906.1	1217.0	NO	bb	bb	51.760
124679-HXCDD	34.104	0.945	3.073e5	2.529e5	1.033	1.215	1.240	2459	2022	4.88e6	4.09e6	1984.3	2022.2	NO	bb	bb	52.384
1234679-HPCDD	39.296	0.974	2.978e5	2.984e5	1.286	0.998	1.050	2240	2747	4.86e6	4.77e6	2169.4	1735.2	NO	bb	bd	51.878
Total-tetrafurans			2.515e5		0.933			1312		3.88e6							30.410
Total-penta1			5.475e5					880		8.31e6							51.279
Total-pentafurans			1.407e6		0.866			3463		2.14e7							158.406
Total-hexafurans			1.992e6		1.208			2904		3.05e7							256.184
Total-heptafurans			6.724e5		1.185			3342		1.04e7							100.453
Total-Furans			5.343e6		1.067			1312		8.03e7							689.726
Total-tetradioxins			3.350e5		1.099			1380		4.69e6							55.818
Total-pentadioxins			1.337e6		1.392			3204		1.72e7							154.023
Total-hexadioxins			1.180e6		1.007			2459		1.94e7							201.246
Total-heptadioxins			5.836e5		1.269			2240		9.09e6							100.724
Total-Dioxins			3.891e6		1.165			1380		5.62e7							607.589
Total-TEQ			9.234e6					1380		1.36e8							1297.316
FUNCTION1 PFK			2.960e5					590383		7.93e6							
FUNCTION2 PFK			3.847e5					195923		1.00e7							0.000
FUNCTION3 PFK			3.926e5					364545		1.22e7							0.000
FUNCTION4 PFK			4.778e5					303163		3.90e6							
FUNCTION5 PFK			9.338e4					197261		3.25e6							
FUNCTION1 HXCD...			9.172e2					783		1.34e4							0.000
FUNCTION1 HPCD...			1.484e3					913		2.30e4							0.000
FUNCTION2 HPCD...			4.855e2					894		8.19e3							0.000
FUNCTION3 OCDPE			1.383e2					795		2.59e3							0.000
FUNCTION4 NCDPE			2.530e2					911		5.27e3							0.000
FUNCTION5 DCDPE			7.207e1					795		1.85e3							0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	7.533e4	1.022e5	0.858	0.74	0.77	867.5	YES	NO	db	db	10.006
2	2378-TCDF	25.88	7.583e4	1.018e5	0.876	0.74	0.77	895.7	YES	NO	bb	bb	9.802
3	Total-tetrafurans	24.79	7.370e2	1.079e3	0.933	0.68	0.77	8.4	YES	NO	db	dd	0.094
4	1368-TCDF	22.39	9.960e4	1.319e5	1.064	0.76	0.77	1186.8	YES	NO	bb	bb	10.509

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.24	5.475e5	3.540e5	1.013	1.55	1.55	9441.4	YES	NO	bb	bb	51.279

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	32.41	4.363e5	2.872e5	0.866	1.52	1.55	1891.7	YES	NO	bb	bb	49.558
2	23478-PeCDF	31.37	4.582e5	2.969e5	0.911	1.54	1.55	1992.7	YES	NO	bb	bb	50.720
3	12378-PeCDF	30.04	4.347e5	2.900e5	0.845	1.50	1.55	1956.5	YES	NO	bb	bb	49.435
4	Total-pentafurans	28.89	7.749e4	4.941e4	0.866	1.57	1.55	335.4	YES	NO	bb	bb	8.693

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.01	3.438e5	2.711e5	1.187	1.27	1.24	1855.6	YES	NO	bb	bb	49.890
2	234678-HxCDF	35.99	4.056e5	3.185e5	1.229	1.27	1.24	2160.6	YES	NO	bb	bd	51.528
3	123678-HxCDF	35.13	4.284e5	3.437e5	1.248	1.25	1.24	2238.5	YES	NO	dd	db	51.066
4	123478-HxCDF	34.98	3.962e5	3.152e5	1.182	1.26	1.24	2155.7	YES	NO	bd	bd	50.838
5	123468-HXCDF	33.34	4.175e5	3.320e5	1.197	1.26	1.24	2104.7	YES	NO	bb	bb	52.862

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.85	3.527e5	3.436e5	1.204	1.03	1.05	1739.4	YES	NO	bb	bb	48.984
2	1234789-HpCDF	41.10	3.197e5	3.013e5	1.165	1.06	1.05	1383.4	YES	NO	bd	bb	51.470

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	7.533e4	1.022e5	0.858	0.74	0.77	867.5	YES	NO	db	db	10.006
2	2378-TCDF	25.88	7.583e4	1.018e5	0.876	0.74	0.77	895.7	YES	NO	bb	bb	9.802
3	Total-tetrafurans	24.79	7.370e2	1.079e3	0.933	0.68	0.77	8.4	YES	NO	db	dd	0.094
4	1368-TCDF	22.39	9.960e4	1.319e5	1.064	0.76	0.77	1186.8	YES	NO	bb	bb	10.509
5	Total-pentafurans	32.41	4.363e5	2.872e5	0.866	1.52	1.55	1891.7	YES	NO	bb	bb	49.558
6	23478-PeCDF	31.37	4.582e5	2.969e5	0.911	1.54	1.55	1992.7	YES	NO	bb	bb	50.720
7	12378-PeCDF	30.04	4.347e5	2.900e5	0.845	1.50	1.55	1956.5	YES	NO	bb	bb	49.435
8	Total-pentafurans	28.89	7.749e4	4.941e4	0.866	1.57	1.55	335.4	YES	NO	bb	bb	8.693
9	123789-HxCDF	37.01	3.438e5	2.711e5	1.187	1.27	1.24	1855.6	YES	NO	bb	bb	49.890
10	234678-HxCDF	35.99	4.056e5	3.185e5	1.229	1.27	1.24	2160.6	YES	NO	bb	bd	51.528
11	123678-HxCDF	35.13	4.284e5	3.437e5	1.248	1.25	1.24	2238.5	YES	NO	dd	db	51.066
12	123478-HxCDF	34.98	3.962e5	3.152e5	1.182	1.26	1.24	2155.7	YES	NO	bd	bd	50.838
13	123468-HXCDF	33.34	4.175e5	3.320e5	1.197	1.26	1.24	2104.7	YES	NO	bb	bb	52.862
14	1234678-HpCDF	38.85	3.527e5	3.436e5	1.204	1.03	1.05	1739.4	YES	NO	bb	bb	48.984
15	1234789-HpCDF	41.10	3.197e5	3.013e5	1.165	1.06	1.05	1383.4	YES	NO	bd	bb	51.470
16	OCDF	45.36	4.733e5	5.396e5	1.186	0.88	0.89	2082.4	YES	NO	bb	bb	92.994
17	13468-PECDF	27.24	5.475e5	3.540e5	1.013	1.55	1.55	9441.4	YES	NO	bb	bb	51.279

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.66	6.883e4	8.714e4	1.084	0.79	0.77	811.7	YES	NO	bb	bb	11.549
2	1289-TCDD	27.12	6.029e4	7.860e4	0.975	0.77	0.77	650.5	YES	NO	bb	bd	11.436
3	2378-TCDD	26.53	6.792e4	8.768e4	1.236	0.77	0.77	749.1	YES	NO	bb	bb	10.105
4	Total-tetradioxins	26.20	1.038e5	1.301e5	1.099	0.80	0.77	805.2	YES	NO	bb	bb	17.096
5	Total-tetradioxins	25.72	3.415e4	4.291e4	1.099	0.80	0.77	378.9	YES	NO	bd	bd	5.632

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.03	4.002e5	2.572e5	1.252	1.56	1.55	1906.1	YES	NO	bb	bb	51.760
2	12378-PeCDD	31.63	3.290e5	2.096e5	1.087	1.57	1.55	1603.9	YES	NO	bb	bb	48.876
3	12479-PECDD	28.91	6.082e5	3.865e5	1.837	1.57	1.55	1847.3	YES	NO	bb	bb	53.387

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.60	2.845e5	2.378e5	0.985	1.20	1.24	1960.3	YES	NO	bb	bb	49.580
2	123678-HxCDD	36.22	2.990e5	2.445e5	1.021	1.22	1.24	1984.4	YES	NO	db	db	48.307
3	123478-HxCDD	36.11	2.890e5	2.319e5	0.987	1.25	1.24	1968.4	YES	NO	bd	bd	50.975
4	124679-HXCDD	34.10	3.073e5	2.529e5	1.033	1.22	1.24	1984.3	YES	NO	bb	bb	52.384

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	2.858e5	2.609e5	1.253	1.10	1.05	1890.7	YES	NO	bd	bb	48.846
2	1234679-HPCDD	39.30	2.978e5	2.984e5	1.286	1.00	1.05	2169.4	YES	NO	bb	bd	51.878

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.66	6.883e4	8.714e4	1.084	0.79	0.77	811.7	YES	NO	bb	bb	11.549
2	1289-TCDD	27.12	6.029e4	7.860e4	0.975	0.77	0.77	650.5	YES	NO	bb	bd	11.436
3	2378-TCDD	26.53	6.792e4	8.768e4	1.236	0.77	0.77	749.1	YES	NO	bb	bb	10.105
4	Total-tetradioxins	26.20	1.038e5	1.301e5	1.099	0.80	0.77	805.2	YES	NO	bb	bb	17.096
5	Total-tetradioxins	25.72	3.415e4	4.291e4	1.099	0.80	0.77	378.9	YES	NO	bd	bd	5.632
6	12389-PECDD	32.03	4.002e5	2.572e5	1.252	1.56	1.55	1906.1	YES	NO	bb	bb	51.760
7	12378-PeCDD	31.63	3.290e5	2.096e5	1.087	1.57	1.55	1603.9	YES	NO	bb	bb	48.876
8	12479-PECDD	28.91	6.082e5	3.865e5	1.837	1.57	1.55	1847.3	YES	NO	bb	bb	53.387
9	123789-HxCDD	36.60	2.845e5	2.378e5	0.985	1.20	1.24	1960.3	YES	NO	bb	bb	49.580
10	123678-HxCDD	36.22	2.990e5	2.445e5	1.021	1.22	1.24	1984.4	YES	NO	db	db	48.307
11	123478-HxCDD	36.11	2.890e5	2.319e5	0.987	1.25	1.24	1968.4	YES	NO	bd	bd	50.975
12	124679-HXCDD	34.10	3.073e5	2.529e5	1.033	1.22	1.24	1984.3	YES	NO	bb	bb	52.384
13	1234678-HpCDD	40.35	2.858e5	2.609e5	1.253	1.10	1.05	1890.7	YES	NO	bd	bb	48.846
14	1234679-HPCDD	39.30	2.978e5	2.984e5	1.286	1.00	1.05	2169.4	YES	NO	bb	bd	51.878
15	OCDD	45.11	4.553e5	5.144e5	1.103	0.89	0.89	2832.1	YES	NO	bb	bb	95.778

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	7.533e4	1.022e5	0.858	0.74	0.77	867.5	YES	NO	db	db	10.006
2	2378-TCDF	25.88	7.583e4	1.018e5	0.876	0.74	0.77	895.7	YES	NO	bb	bb	9.802
3	Total-tetrafurans	24.79	7.370e2	1.079e3	0.933	0.68	0.77	8.4	YES	NO	db	dd	0.094
4	1368-TCDF	22.39	9.960e4	1.319e5	1.064	0.76	0.77	1186.8	YES	NO	bb	bb	10.509
5	Total-pentafurans	32.41	4.363e5	2.872e5	0.866	1.52	1.55	1891.7	YES	NO	bb	bb	49.558
6	23478-PeCDF	31.37	4.582e5	2.969e5	0.911	1.54	1.55	1992.7	YES	NO	bb	bb	50.720
7	12378-PeCDF	30.04	4.347e5	2.900e5	0.845	1.50	1.55	1956.5	YES	NO	bb	bb	49.435
8	Total-pentafurans	28.89	7.749e4	4.941e4	0.866	1.57	1.55	335.4	YES	NO	bb	bb	8.693
9	123789-HxCDF	37.01	3.438e5	2.711e5	1.187	1.27	1.24	1855.6	YES	NO	bb	bb	49.890
10	234678-HxCDF	35.99	4.056e5	3.185e5	1.229	1.27	1.24	2160.6	YES	NO	bb	bd	51.528
11	123678-HxCDF	35.13	4.284e5	3.437e5	1.248	1.25	1.24	2238.5	YES	NO	dd	db	51.066
12	123478-HxCDF	34.98	3.962e5	3.152e5	1.182	1.26	1.24	2155.7	YES	NO	bd	bd	50.838
13	123468-HXCDF	33.34	4.175e5	3.320e5	1.197	1.26	1.24	2104.7	YES	NO	bb	bb	52.862
14	1234678-HpCDF	38.85	3.527e5	3.436e5	1.204	1.03	1.05	1739.4	YES	NO	bb	bb	48.984
15	1234789-HpCDF	41.10	3.197e5	3.013e5	1.165	1.06	1.05	1383.4	YES	NO	bd	bb	51.470
16	OCDF	45.36	4.733e5	5.396e5	1.186	0.88	0.89	2082.4	YES	NO	bb	bb	92.994
17	13468-PECDF	27.24	5.475e5	3.540e5	1.013	1.55	1.55	9441.4	YES	NO	bb	bb	51.279
18	1368-TCDD	23.66	6.883e4	8.714e4	1.084	0.79	0.77	811.7	YES	NO	bb	bb	11.549
19	1289-TCDD	27.12	6.029e4	7.860e4	0.975	0.77	0.77	650.5	YES	NO	bb	bd	11.436
20	2378-TCDD	26.53	6.792e4	8.768e4	1.236	0.77	0.77	749.1	YES	NO	bb	bb	10.105
21	Total-tetradioxins	26.20	1.038e5	1.301e5	1.099	0.80	0.77	805.2	YES	NO	bb	bb	17.096
22	Total-tetradioxins	25.72	3.415e4	4.291e4	1.099	0.80	0.77	378.9	YES	NO	bd	bd	5.632
23	12389-PECDD	32.03	4.002e5	2.572e5	1.252	1.56	1.55	1906.1	YES	NO	bb	bb	51.760
24	12378-PeCDD	31.63	3.290e5	2.096e5	1.087	1.57	1.55	1603.9	YES	NO	bb	bb	48.876
25	12479-PECDD	28.91	6.082e5	3.865e5	1.837	1.57	1.55	1847.3	YES	NO	bb	bb	53.387
26	123789-HxCDD	36.60	2.845e5	2.378e5	0.985	1.20	1.24	1960.3	YES	NO	bb	bb	49.580
27	123678-HxCDD	36.22	2.990e5	2.445e5	1.021	1.22	1.24	1984.4	YES	NO	db	db	48.307
28	123478-HxCDD	36.11	2.890e5	2.319e5	0.987	1.25	1.24	1968.4	YES	NO	bd	bd	50.975
29	124679-HXCDD	34.10	3.073e5	2.529e5	1.033	1.22	1.24	1984.3	YES	NO	bb	bb	52.384
30	1234678-HpCDD	40.35	2.858e5	2.609e5	1.253	1.10	1.05	1890.7	YES	NO	bd	bb	48.846
31	1234679-HPCDD	39.30	2.978e5	2.984e5	1.286	1.00	1.05	2169.4	YES	NO	bb	bd	51.878
32	OCDD	45.11	4.553e5	5.144e5	1.103	0.89	0.89	2832.1	YES	NO	bb	bb	95.778

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.86	1.802e4					0.8	NO		bb		
2	FUNCTION1 PFK	27.44	9.566e3					0.7	NO		bb		
3	FUNCTION1 PFK	27.12	3.959e3					0.4	NO		bb		
4	FUNCTION1 PFK	26.97	4.648e4					1.4	NO		bb		
5	FUNCTION1 PFK	26.85	1.177e4					0.8	NO		bb		
6	FUNCTION1 PFK	26.26	3.797e3					0.4	NO		bb		
7	FUNCTION1 PFK	25.26	1.715e4					0.9	NO		bb		
8	FUNCTION1 PFK	24.10	5.099e4					1.3	NO		bb		
9	FUNCTION1 PFK	22.39	1.400e4					0.8	NO		bb		
10	FUNCTION1 PFK	22.18	2.255e4					1.2	NO		bb		
11	FUNCTION1 PFK	21.91	1.341e4					0.9	NO		bb		
12	FUNCTION1 PFK	21.72	1.562e4					0.9	NO		bb		
13	FUNCTION1 PFK	21.54	1.217e4					0.8	NO		bb		
14	FUNCTION1 PFK	21.48	3.458e4					0.9	NO		bb		
15	FUNCTION1 PFK	28.06	2.191e4					1.2	NO		bb		

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Last Altered: Friday, February 03, 2023 11:22:32 Pacific Standard Time
Printed: Friday, February 03, 2023 11:23:11 Pacific Standard Time

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.07	6.452e3					0.9	NO		bd		0.000
2	FUNCTION2 PFK	29.81	1.293e4					1.6	NO		db		0.000
3	FUNCTION2 PFK	29.78	4.561e3					1.1	NO		bd		0.000
4	FUNCTION2 PFK	29.68	5.711e3					1.0	NO		db		0.000
5	FUNCTION2 PFK	29.64	1.700e4					1.8	NO		bd		0.000
6	FUNCTION2 PFK	29.47	2.480e4					1.9	NO		db		0.000
7	FUNCTION2 PFK	29.36	1.696e4					1.9	NO		bd		0.000
8	FUNCTION2 PFK	29.29	2.861e3					0.7	NO		bb		0.000
9	FUNCTION2 PFK	29.16	1.091e4					1.2	NO		bb		0.000
10	FUNCTION2 PFK	28.90	2.320e3					0.6	NO		bb		0.000
11	FUNCTION2 PFK	28.80	2.770e3					0.8	NO		bb		0.000
12	FUNCTION2 PFK	28.54	5.899e3					1.2	NO		db		0.000
13	FUNCTION2 PFK	28.50	1.397e4					2.0	NO		bd		0.000
14	FUNCTION2 PFK	28.32	1.175e3					0.5	NO		bb		0.000
15	FUNCTION2 PFK	31.69	3.508e3					0.9	NO		bb		0.000
16	FUNCTION2 PFK	31.63	1.016e4					1.4	NO		bb		0.000
17	FUNCTION2 PFK	31.53	8.675e3					0.8	NO		bb		0.000
18	FUNCTION2 PFK	31.49	1.869e3					0.7	NO		bb		0.000
19	FUNCTION2 PFK	31.40	1.095e4					1.3	NO		bb		0.000
20	FUNCTION2 PFK	31.20	1.018e4					1.4	NO		db		0.000
21	FUNCTION2 PFK	31.14	9.902e3					1.4	NO		bd		0.000
22	FUNCTION2 PFK	31.04	2.521e3					0.6	NO		bb		0.000
23	FUNCTION2 PFK	30.92	4.486e3					1.1	NO		db		0.000
24	FUNCTION2 PFK	30.88	6.090e3					1.2	NO		bd		0.000
25	FUNCTION2 PFK	30.81	3.856e3					0.6	NO		bb		0.000
26	FUNCTION2 PFK	30.76	7.571e3					1.5	NO		db		0.000
27	FUNCTION2 PFK	30.72	1.009e4					1.3	NO		bd		0.000
28	FUNCTION2 PFK	30.37	7.200e3					1.1	NO		db		0.000
29	FUNCTION2 PFK	30.32	1.863e4					2.0	NO		bd		0.000
30	FUNCTION2 PFK	30.12	8.431e3					1.5	NO		db		0.000
31	FUNCTION2 PFK	32.82	1.531e4					1.7	NO		bb		0.000
32	FUNCTION2 PFK	32.76	2.617e4					2.0	NO		db		0.000
33	FUNCTION2 PFK	32.66	9.185e3					1.4	NO		dd		0.000
34	FUNCTION2 PFK	32.61	2.742e4					2.3	NO		dd		0.000
35	FUNCTION2 PFK	32.51	2.015e4					1.8	NO		dd		0.000
36	FUNCTION2 PFK	32.38	1.541e4					2.0	NO		bd		0.000
37	FUNCTION2 PFK	32.27	1.620e3					0.7	NO		bb		0.000

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	32.22	6.522e3					1.4	NO		bb		0.000
39	FUNCTION2 PFK	31.96	8.002e3					1.0	NO		bb		0.000
40	FUNCTION2 PFK	31.73	2.461e3					0.8	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.03	4.935e3					0.7	NO		bb		0.000
2	FUNCTION3 PFK	33.76	5.855e3					0.9	NO		bb		0.000
3	FUNCTION3 PFK	33.65	2.046e4					1.3	NO		bb		0.000
4	FUNCTION3 PFK	33.29	1.061e4					1.2	NO		bb		0.000
5	FUNCTION3 PFK	33.10	1.235e4					0.9	NO		bb		0.000
6	FUNCTION3 PFK	36.89	5.964e3					0.8	NO		bb		0.000
7	FUNCTION3 PFK	36.67	1.246e4					1.3	NO		db		0.000
8	FUNCTION3 PFK	36.59	3.645e4					2.5	NO		bd		0.000
9	FUNCTION3 PFK	36.47	1.165e4					0.9	NO		bb		0.000
10	FUNCTION3 PFK	36.40	4.348e3					0.7	NO		bb		0.000
11	FUNCTION3 PFK	36.32	3.325e4					1.9	NO		bb		0.000
12	FUNCTION3 PFK	36.24	1.791e4					1.4	NO		db		0.000
13	FUNCTION3 PFK	36.19	2.043e4					1.6	NO		bd		0.000
14	FUNCTION3 PFK	35.34	7.839e3					0.9	NO		bb		0.000
15	FUNCTION3 PFK	35.04	1.130e4					1.2	NO		bb		0.000
16	FUNCTION3 PFK	34.98	1.757e4					1.3	NO		bb		0.000
17	FUNCTION3 PFK	34.66	3.150e4					2.1	NO		db		0.000
18	FUNCTION3 PFK	34.63	2.204e4					2.2	NO		bd		0.000
19	FUNCTION3 PFK	34.51	2.015e4					1.6	NO		db		0.000
20	FUNCTION3 PFK	34.43	2.373e4					2.0	NO		dd		0.000
21	FUNCTION3 PFK	34.39	1.491e4					1.8	NO		bd		0.000
22	FUNCTION3 PFK	37.97	9.526e3					1.1	NO		bb		0.000
23	FUNCTION3 PFK	37.61	4.551e3					0.8	NO		bb		0.000
24	FUNCTION3 PFK	37.03	2.911e4					1.8	NO		db		0.000
25	FUNCTION3 PFK	36.98	3.696e3					0.6	NO		bd		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	42.71	9.457e3					0.9	NO		bb		
2	FUNCTION4 PFK	42.55	1.416e3					0.4	NO		bb		
3	FUNCTION4 PFK	42.33	2.050e4					1.4	NO		bb		
4	FUNCTION4 PFK	40.90	3.965e3					0.7	NO		bb		
5	FUNCTION4 PFK	40.40	4.095e3					0.7	NO		bb		
6	FUNCTION4 PFK	40.20	2.031e3					0.6	NO		bb		
7	FUNCTION4 PFK	39.89	7.818e3					1.2	NO		bb		
8	FUNCTION4 PFK	39.30	3.577e3					0.7	NO		db		
9	FUNCTION4 PFK	39.23	1.513e4					1.5	NO		bd		
10	FUNCTION4 PFK	38.50	5.085e3					0.8	NO		bb		
11	FUNCTION4 PFK	38.22	4.047e5					4.0	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.44	6.785e3					1.5	NO		db		
2	FUNCTION5 PFK	46.41	4.268e3					1.1	NO		bd		
3	FUNCTION5 PFK	46.32	3.211e3					0.9	NO		bb		
4	FUNCTION5 PFK	46.25	5.782e3					1.5	NO		bb		
5	FUNCTION5 PFK	46.21	2.148e3					0.5	NO		bb		
6	FUNCTION5 PFK	45.92	1.180e4					1.5	NO		bb		
7	FUNCTION5 PFK	45.78	2.503e3					0.9	NO		bb		
8	FUNCTION5 PFK	45.72	1.015e3					0.6	NO		bb		
9	FUNCTION5 PFK	45.60	1.955e3					0.7	NO		bb		
10	FUNCTION5 PFK	45.57	1.104e3					0.6	NO		bb		
11	FUNCTION5 PFK	45.45	1.042e4					1.3	NO		bb		
12	FUNCTION5 PFK	44.52	3.296e3					0.9	NO		bb		
13	FUNCTION5 PFK	44.38	2.843e4					2.4	NO		bb		
14	FUNCTION5 PFK	44.01	6.535e3					1.0	NO		bb		
15	FUNCTION5 PFK	43.51	4.124e3					1.1	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.80	1.077e2					3.2	YES		bb		0.000
2	FUNCTION1 HXCD...	27.23	8.014e1					1.9	NO		bb		0.000
3	FUNCTION1 HXCD...	25.90	4.015e2					4.7	YES		db		0.000
4	FUNCTION1 HXCD...	25.72	1.078e2					2.6	NO		bd		0.000
5	FUNCTION1 HXCD...	22.96	9.275e1					1.5	NO		bb		0.000
6	FUNCTION1 HXCD...	21.89	1.274e2					3.2	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	24.78	7.643e1					1.2	NO		bb		0.000
2	FUNCTION1 HPCD...	24.10	1.351e2					2.2	NO		db		0.000
3	FUNCTION1 HPCD...	23.90	1.347e2					2.0	NO		dd		0.000
4	FUNCTION1 HPCD...	23.73	7.182e1					1.5	NO		dd		0.000
5	FUNCTION1 HPCD...	23.60	1.453e2					1.7	NO		bd		0.000
6	FUNCTION1 HPCD...	22.30	7.288e1					1.3	NO		bb		0.000
7	FUNCTION1 HPCD...	21.72	1.050e2					2.3	NO		db		0.000
8	FUNCTION1 HPCD...	21.65	1.092e2					1.7	NO		bd		0.000
9	FUNCTION1 HPCD...	27.77	1.087e2					2.2	NO		db		0.000
10	FUNCTION1 HPCD...	27.64	1.853e2					2.8	NO		bd		0.000
11	FUNCTION1 HPCD...	26.97	7.971e1					1.8	NO		db		0.000
12	FUNCTION1 HPCD...	26.89	8.957e1					2.2	NO		bd		0.000
13	FUNCTION1 HPCD...	25.88	1.706e2					2.4	NO		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.25	4.855e2					9.2	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	34.13	1.383e2					3.3	YES		bb		0.000

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ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.71	9.570e1					1.7	NO		bb		0.000
2	FUNCTION4 NCDPE	40.15	8.625e1					2.5	NO		bb		0.000
3	FUNCTION4 NCDPE	39.82	7.102e1					1.6	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.11	7.207e1					2.3	NO		bb		0.000

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Last Altered: Friday, February 03, 2023 11:22:32 Pacific Standard Time
Printed: Friday, February 03, 2023 11:23:11 Pacific Standard Time

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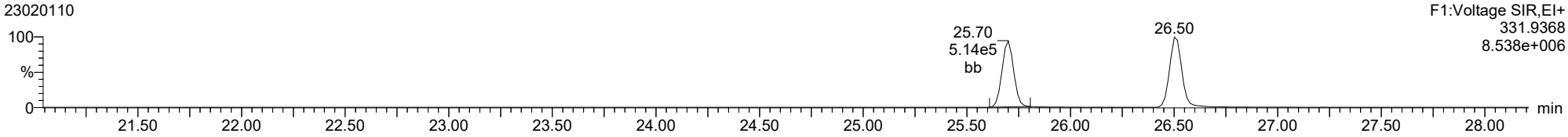

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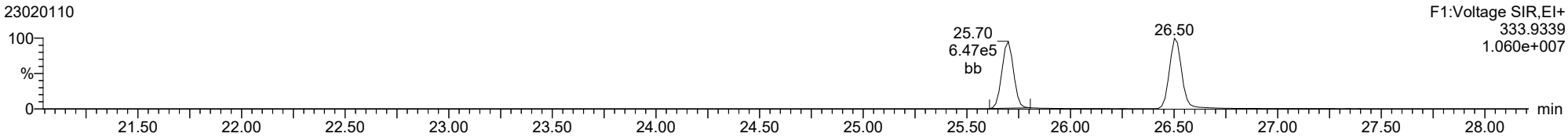

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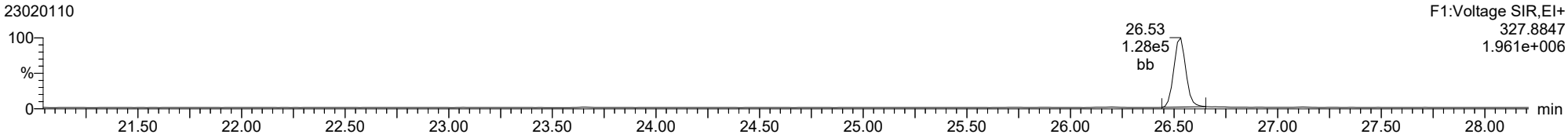

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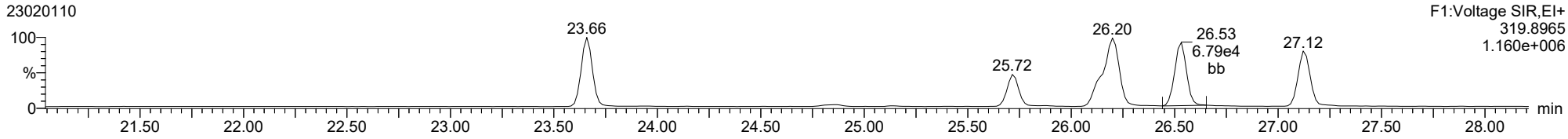

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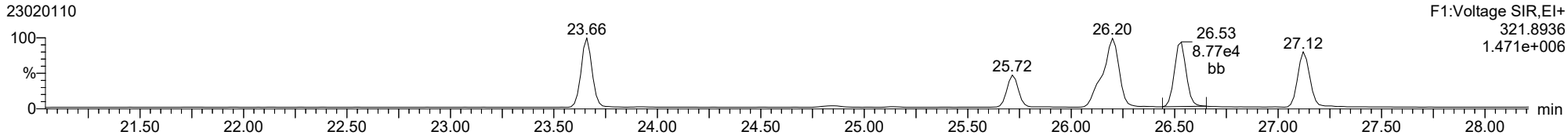

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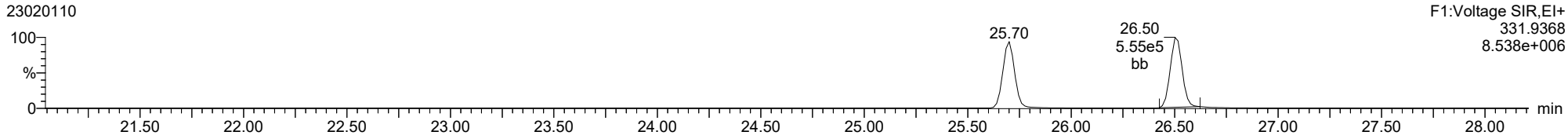

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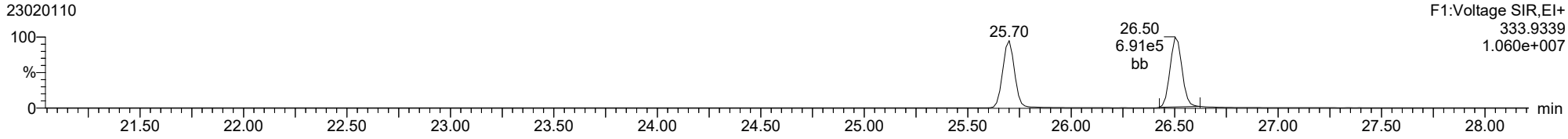

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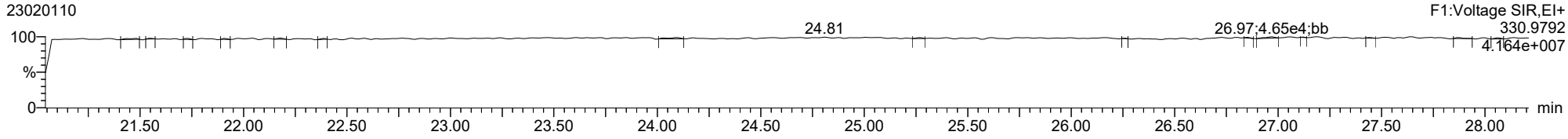

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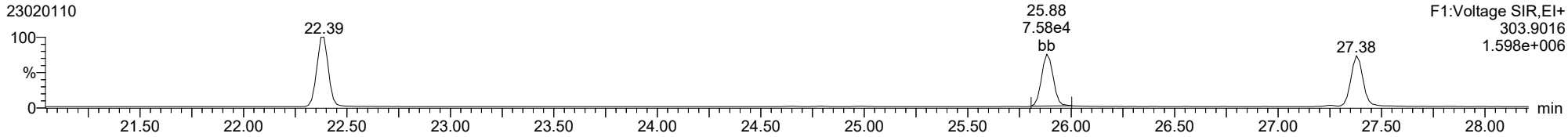

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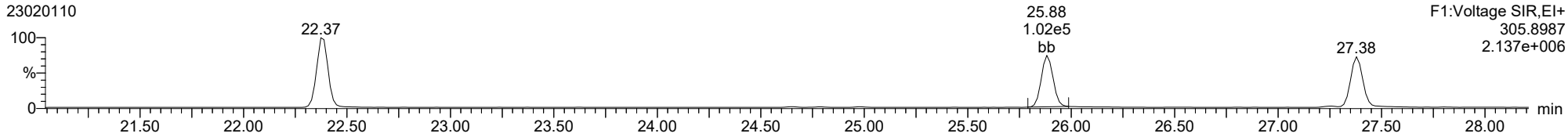

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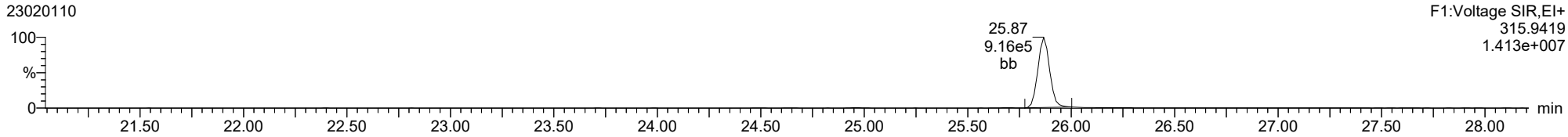

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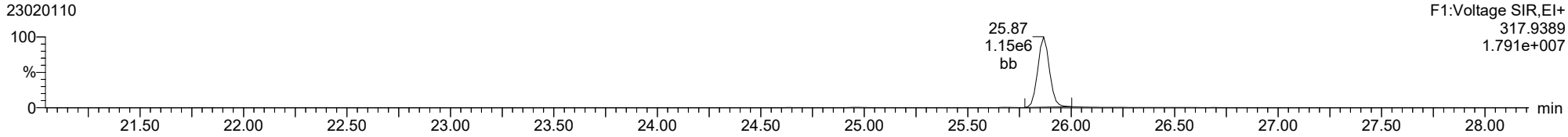

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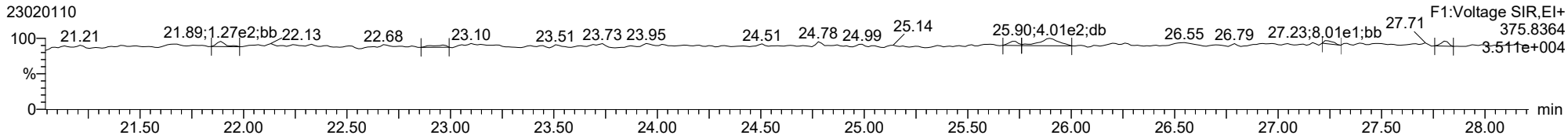

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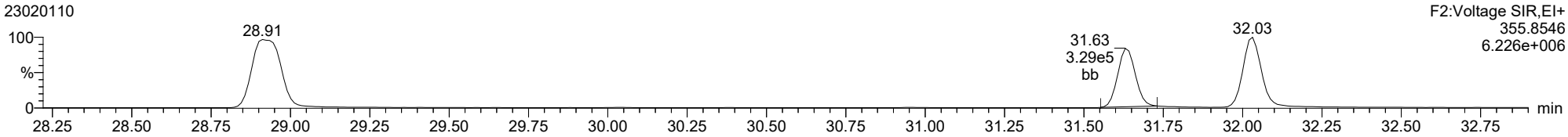

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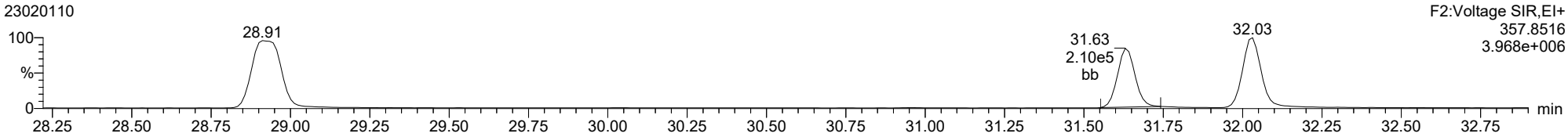

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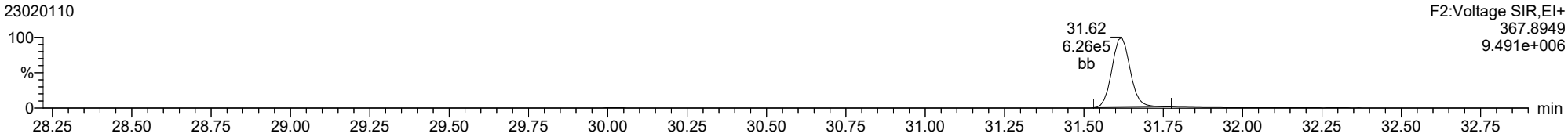

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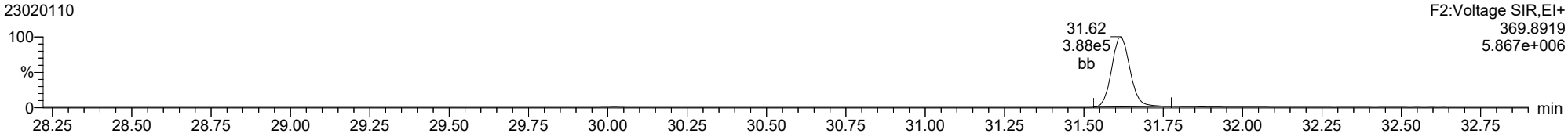
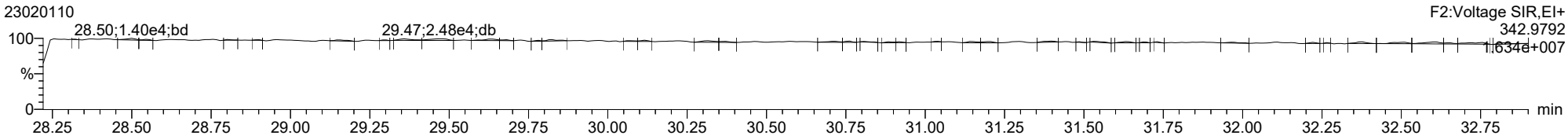


FUNCTION2 PFK



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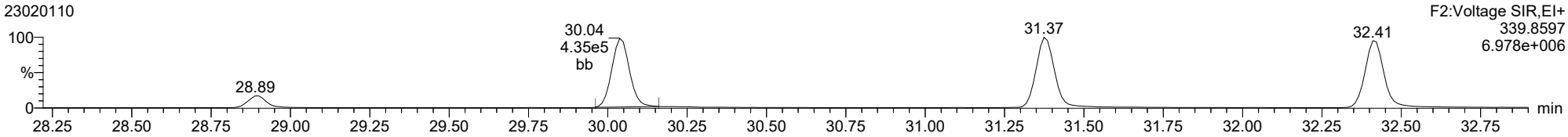

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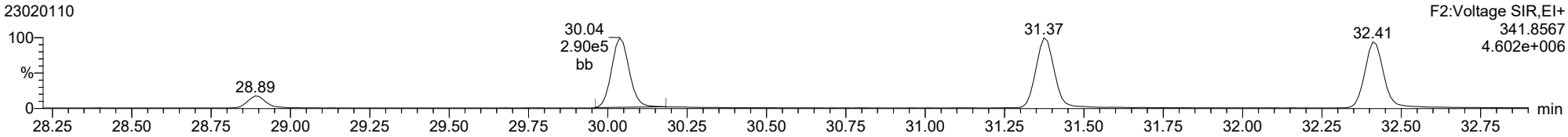

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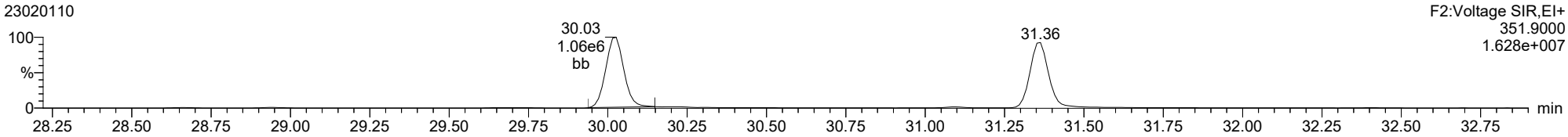

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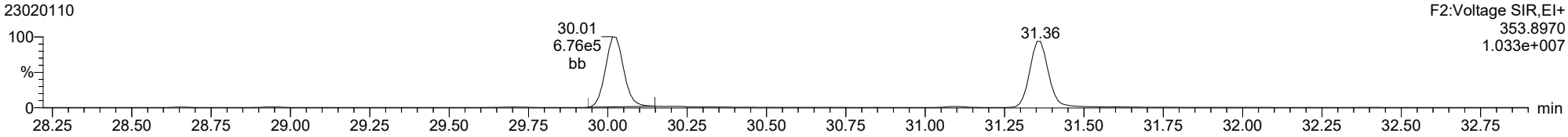
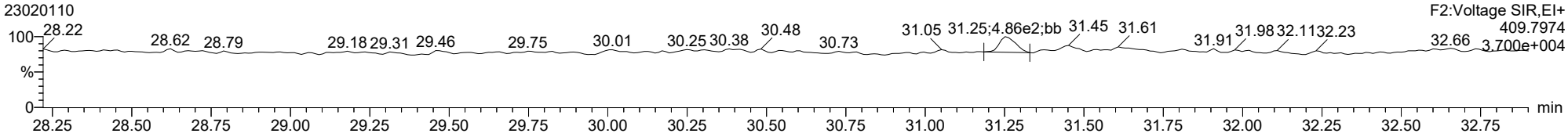


FUNCTION2 HPCDPE



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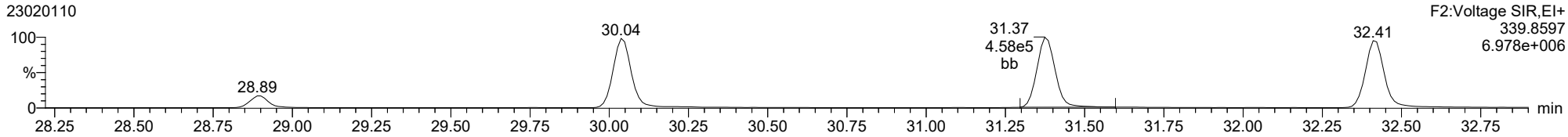

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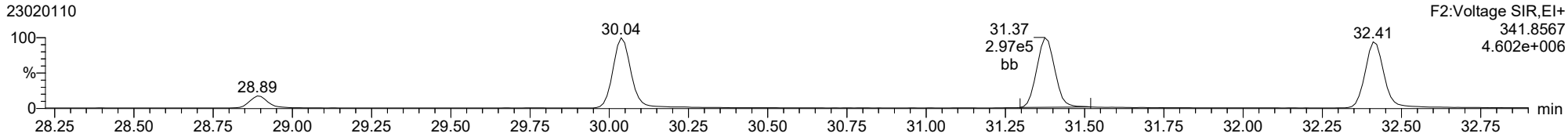

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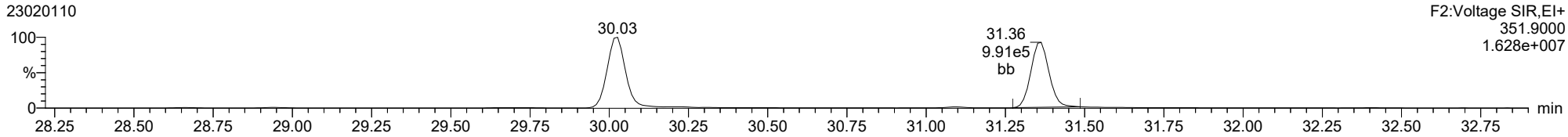

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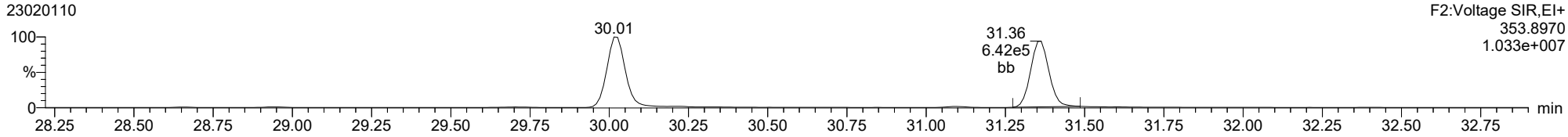

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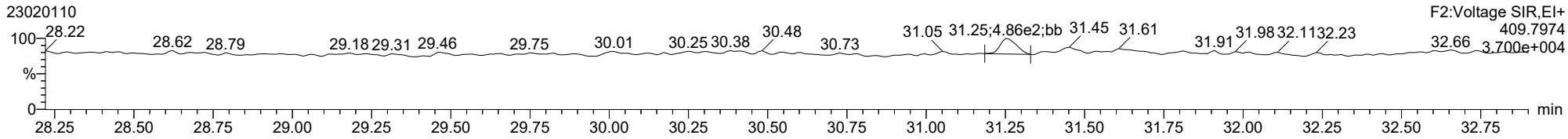

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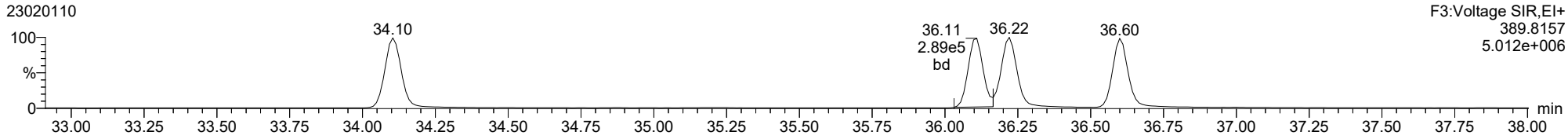

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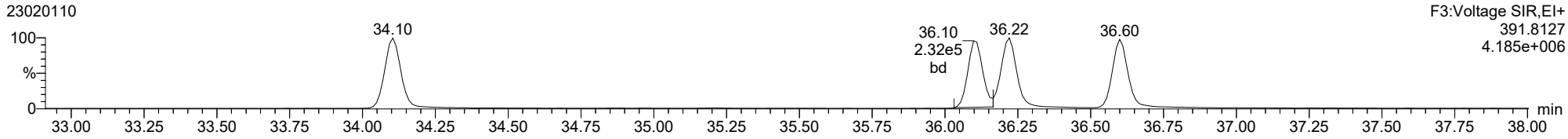

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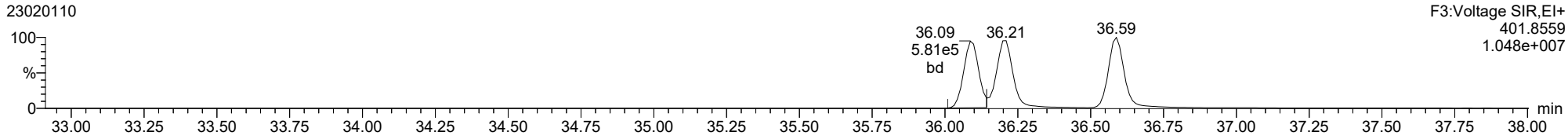

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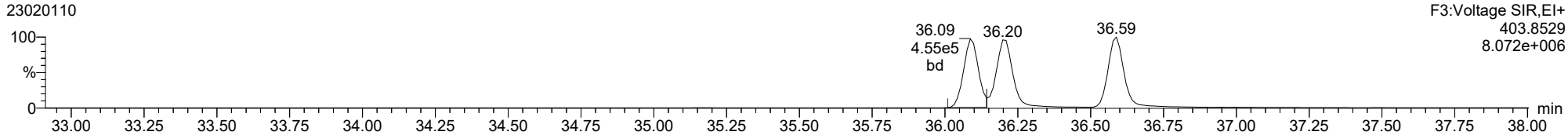

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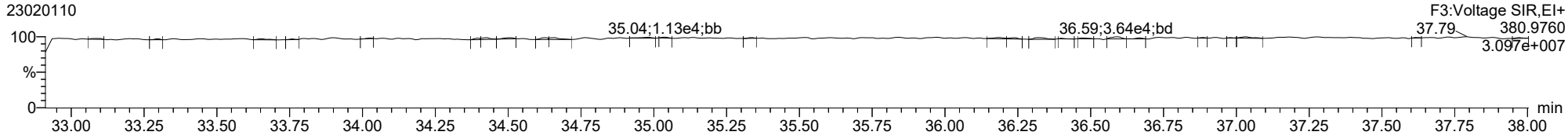

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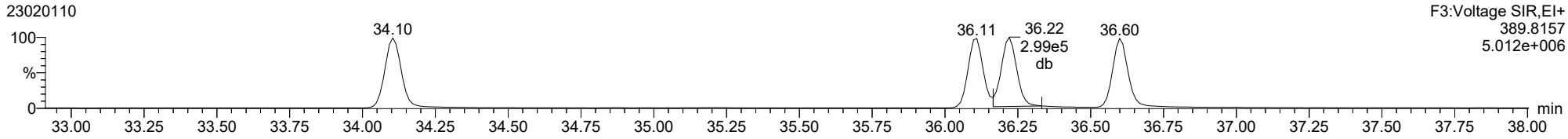

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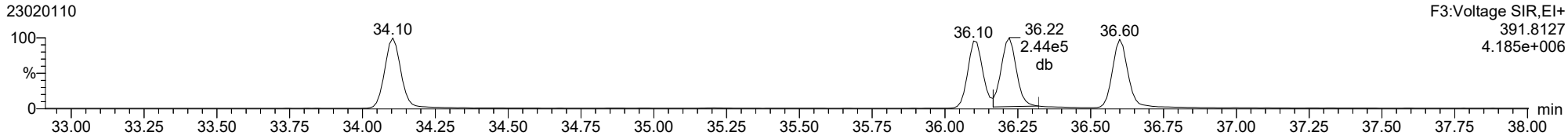

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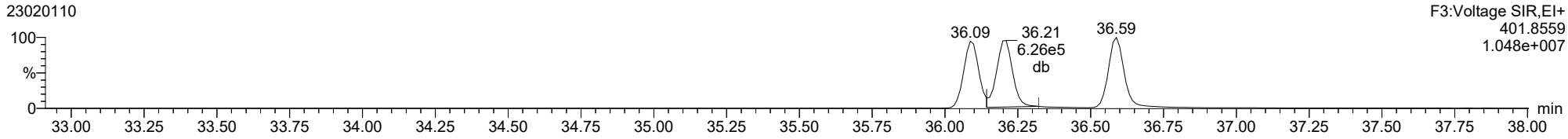

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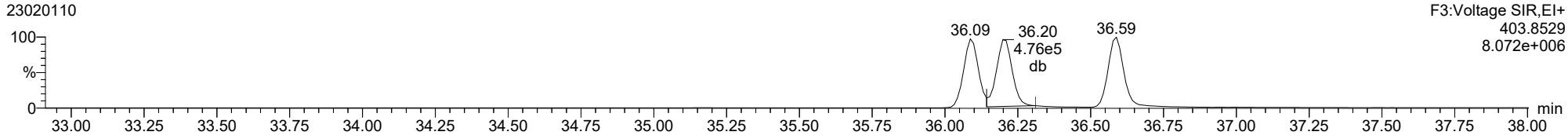

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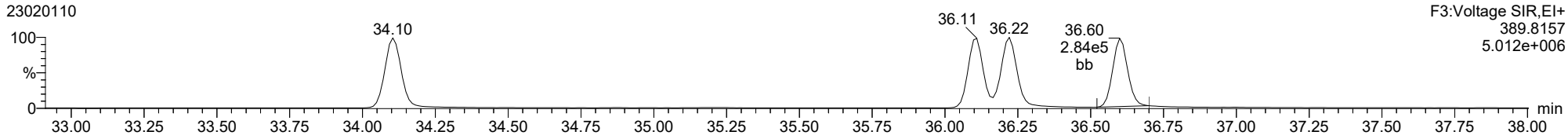

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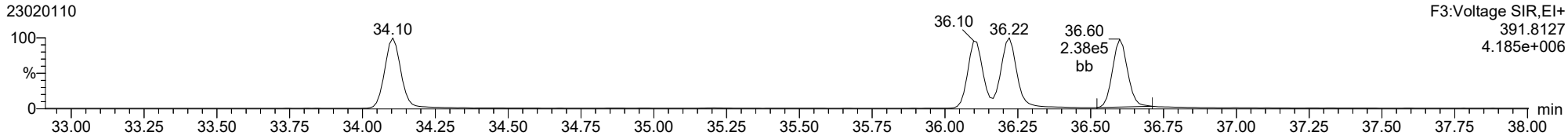

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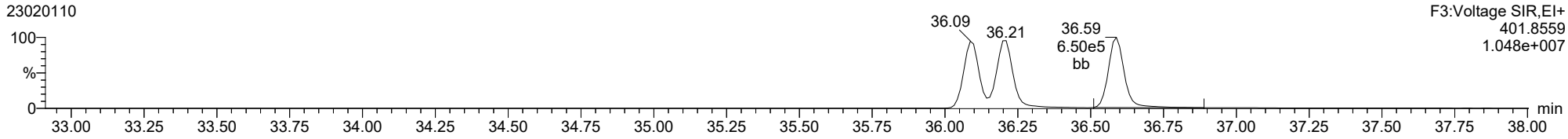

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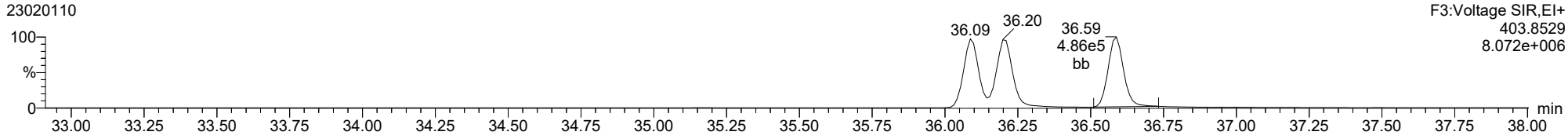

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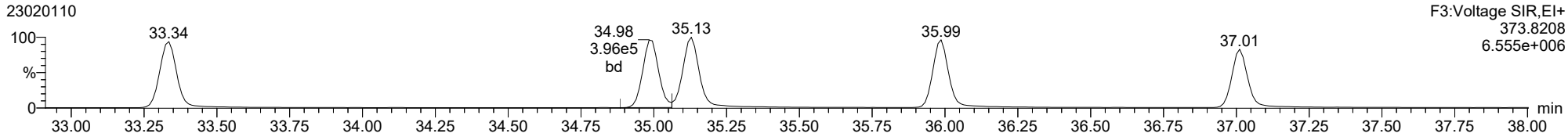

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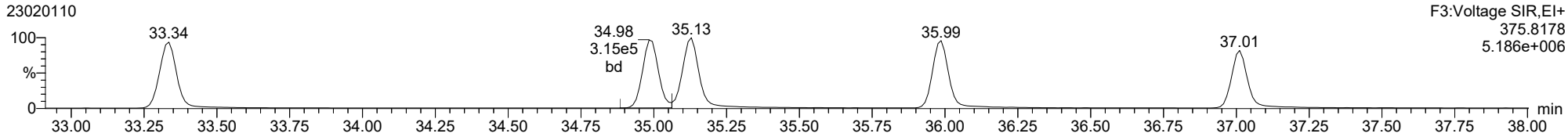

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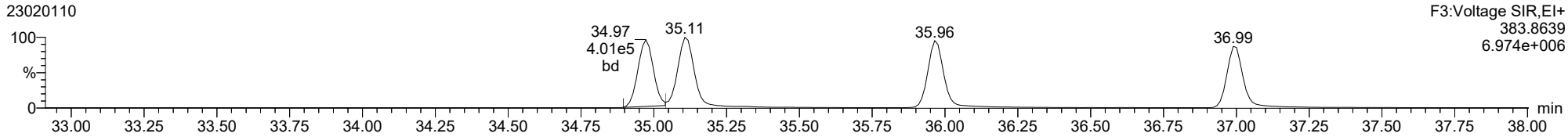

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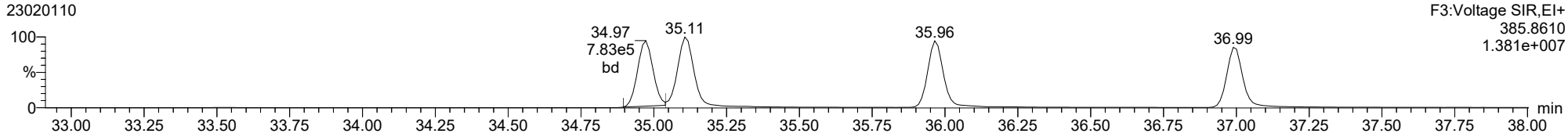

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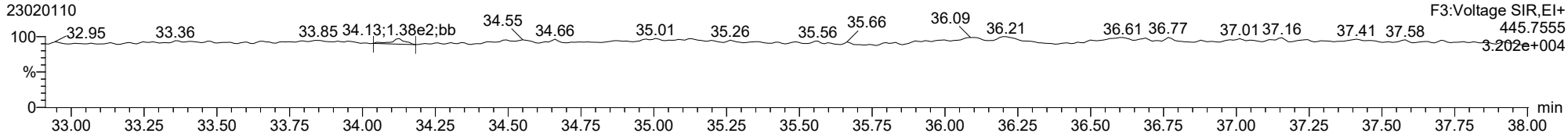

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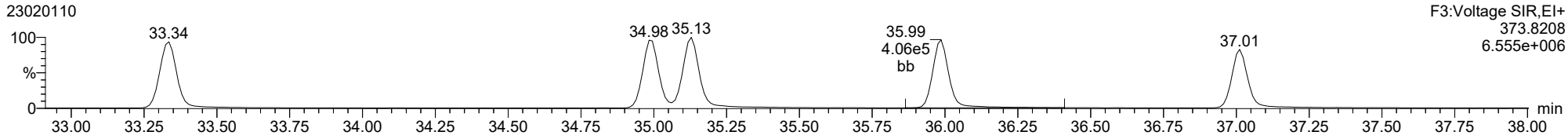
234678-HxCDF



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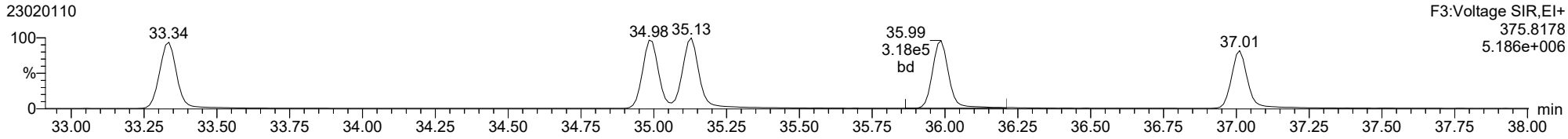

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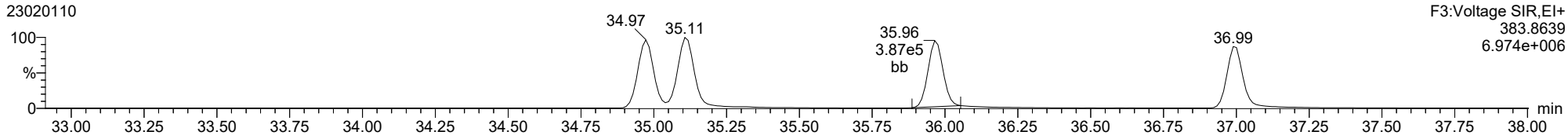

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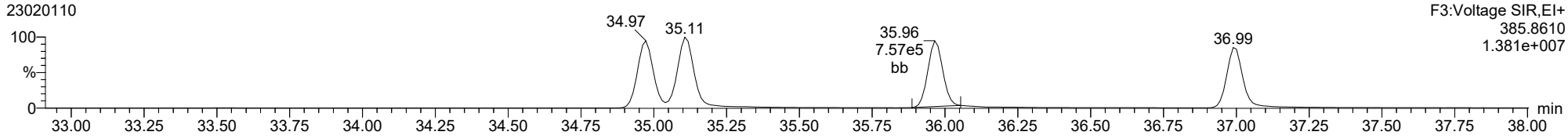
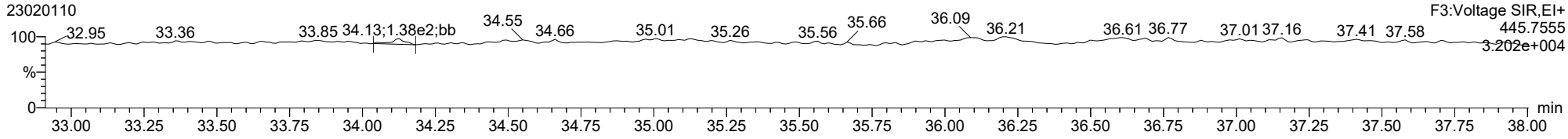


FUNCTION3 OCDPE



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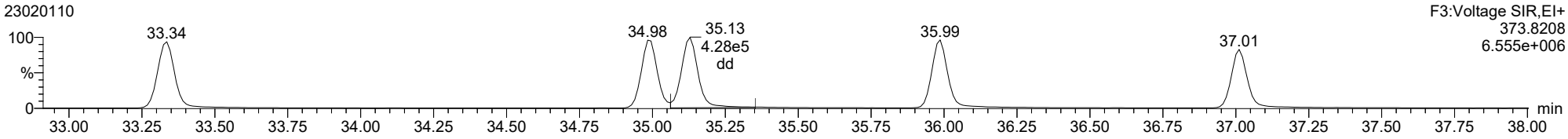

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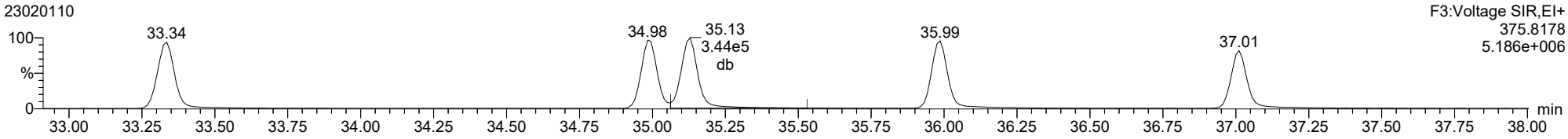

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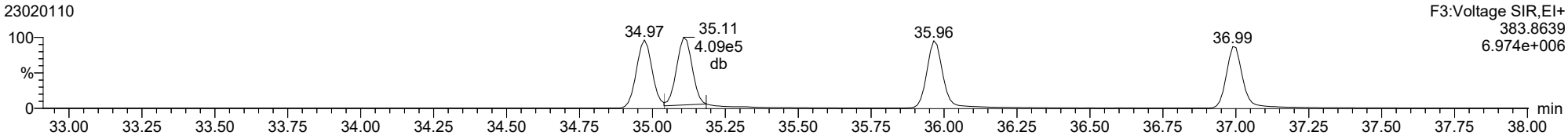

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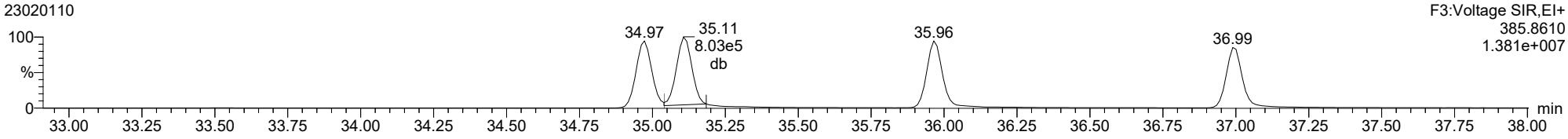
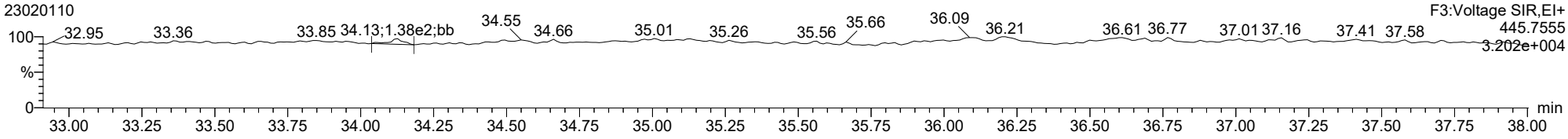


FUNCTION3 OCDPE



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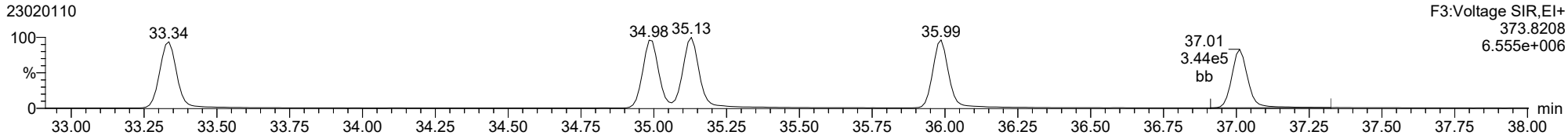

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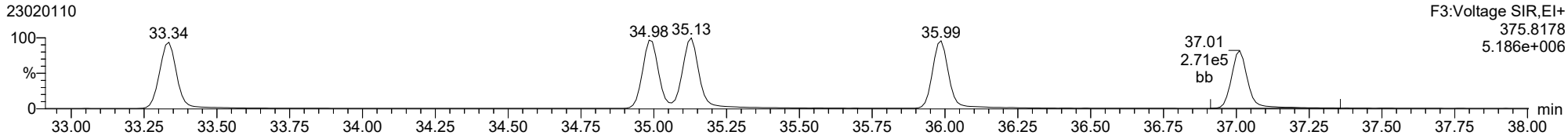

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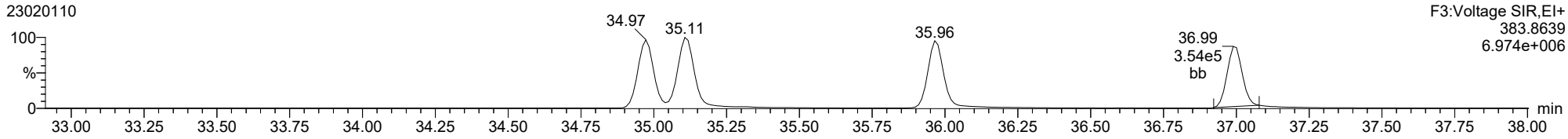

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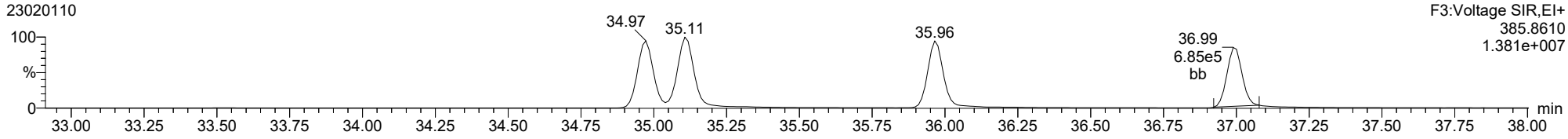
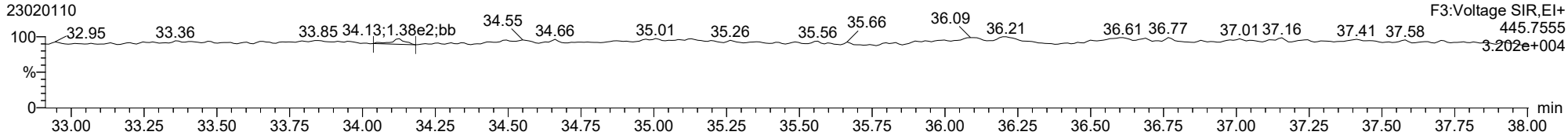


FUNCTION3 OCDPE



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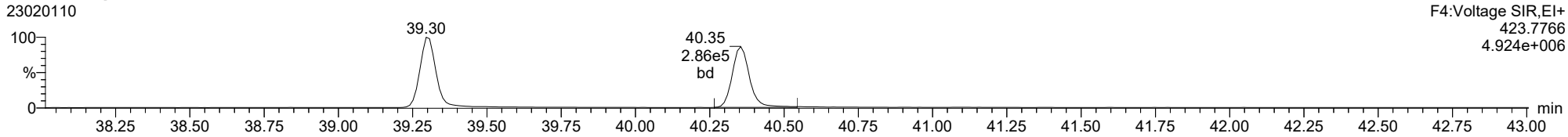
1234678-HpCDD



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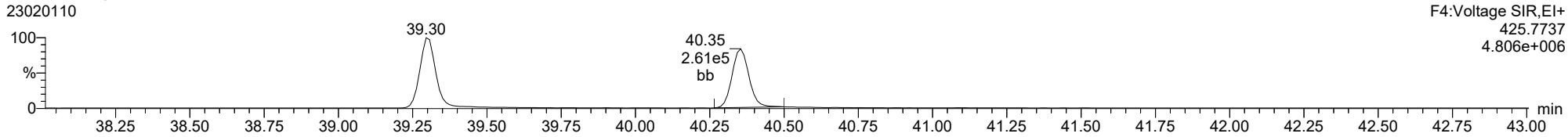

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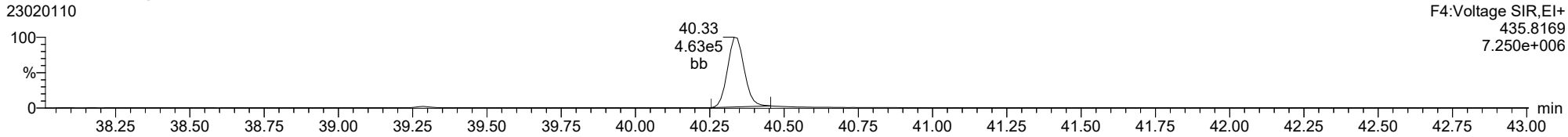

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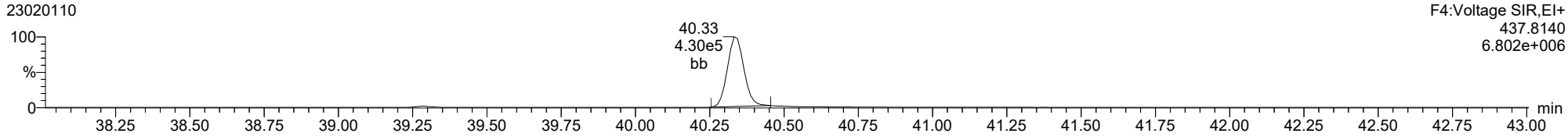
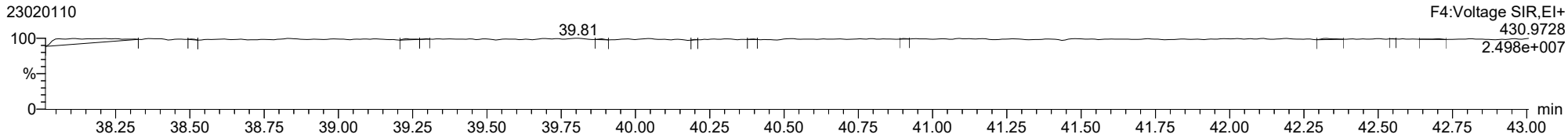


FUNCTION4 PFK



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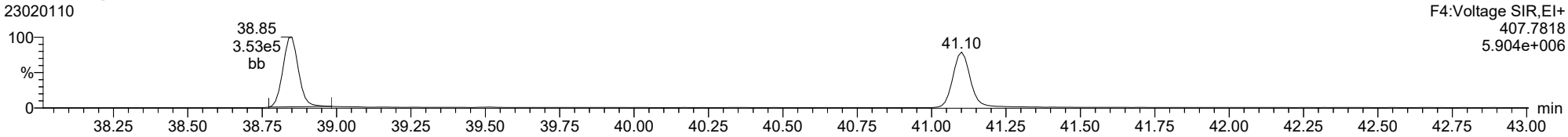
1234678-HpCDF



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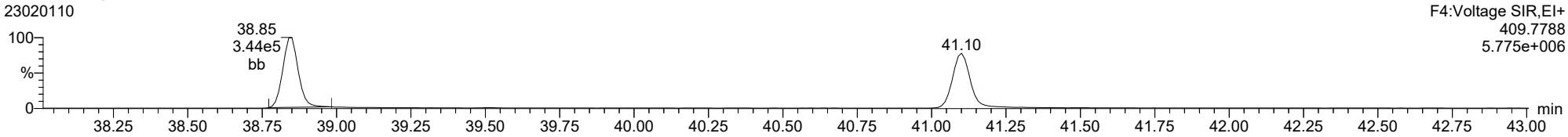

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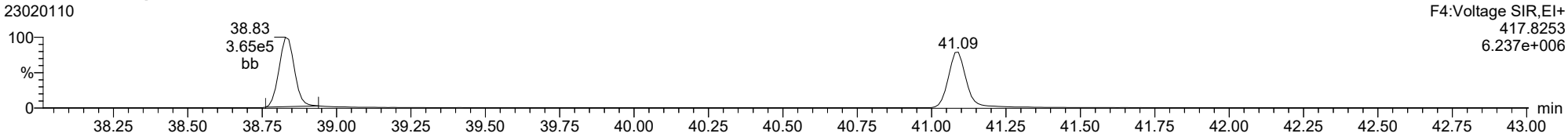

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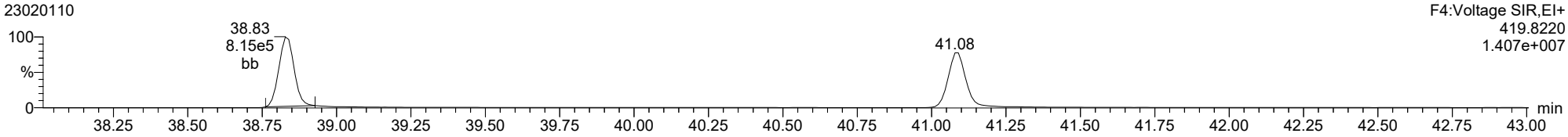
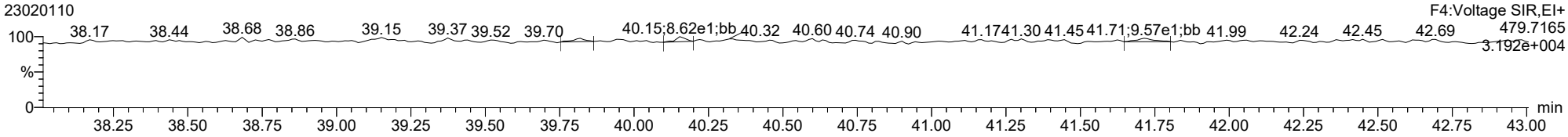


FUNCTION4 NCDPE



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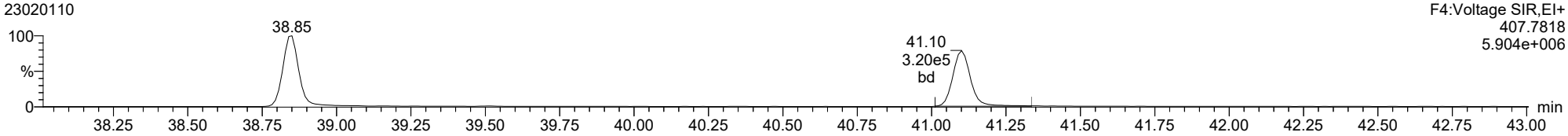

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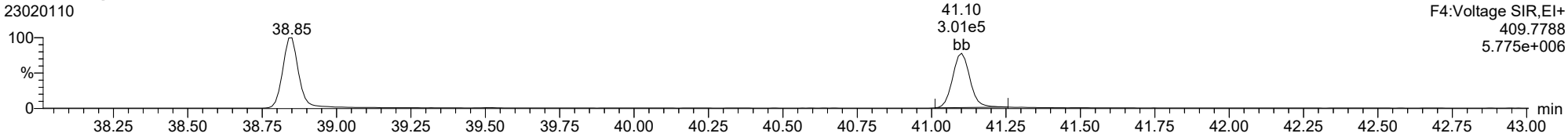

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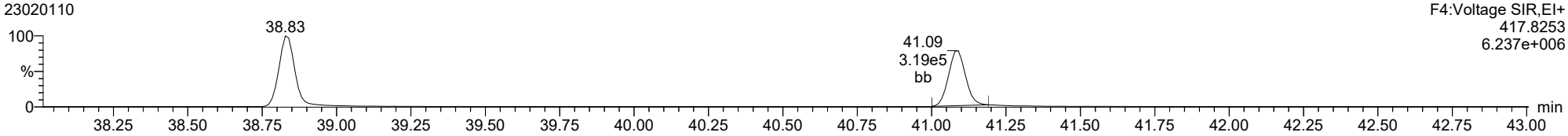

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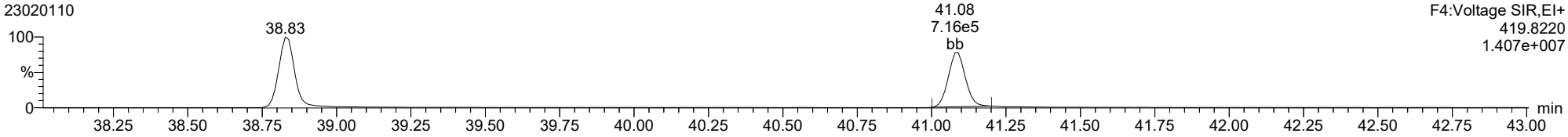
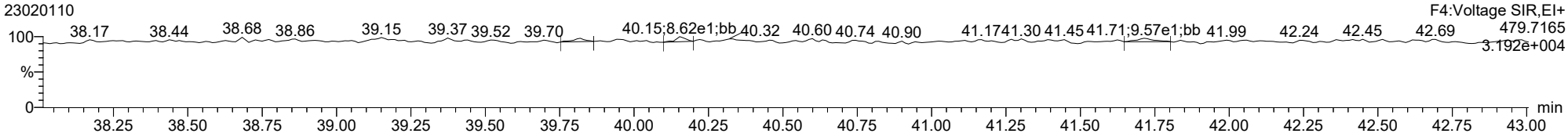


FUNCTION4 NCDPE



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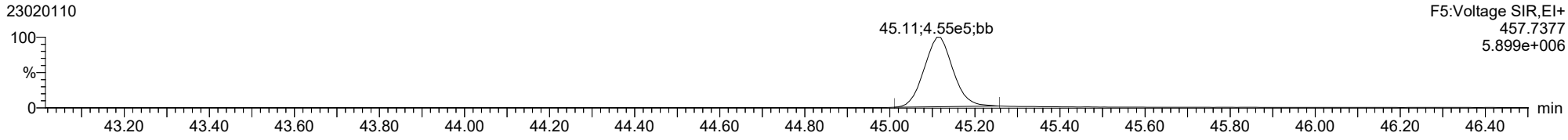

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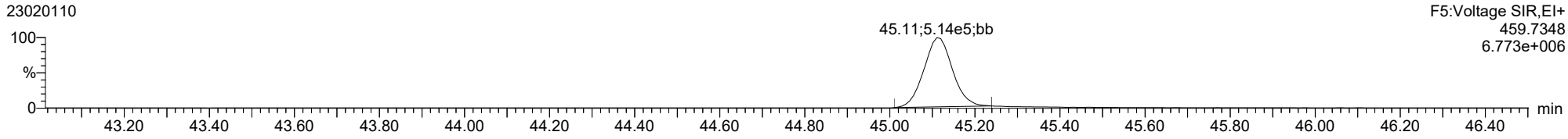

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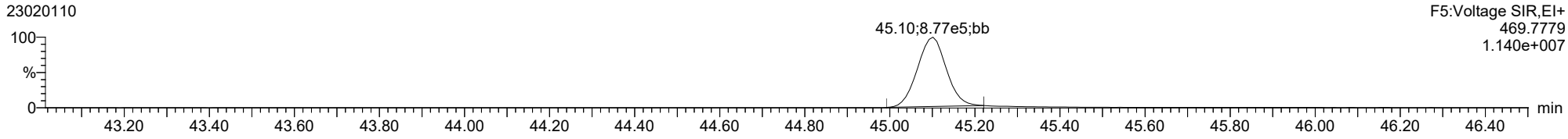

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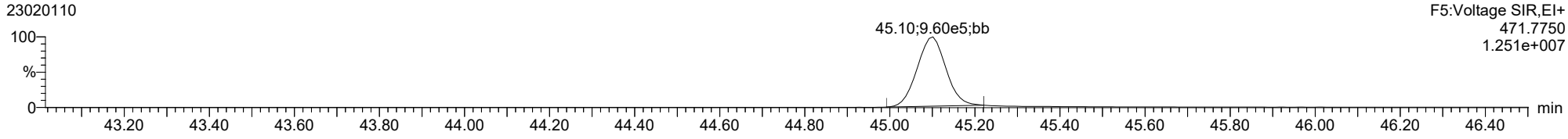
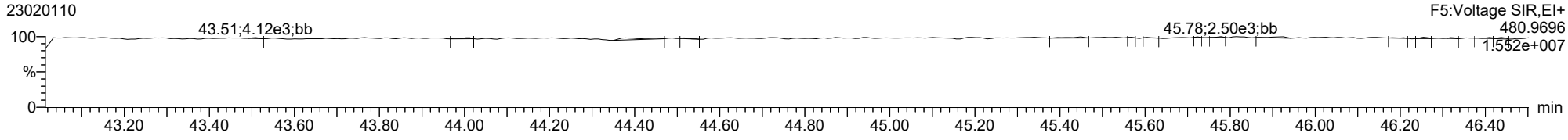


FUNCTION5 PFK



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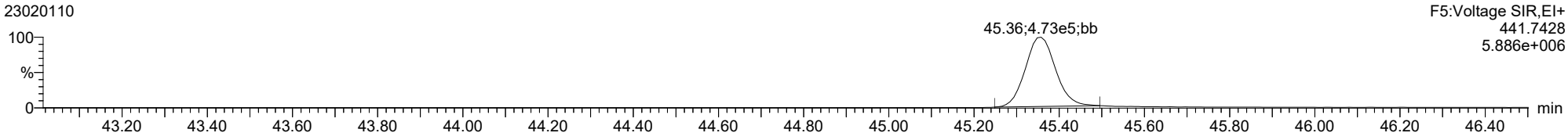

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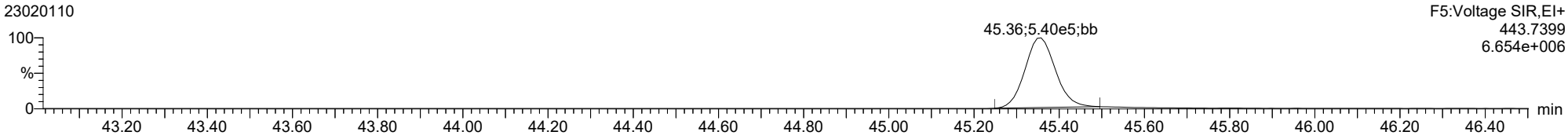

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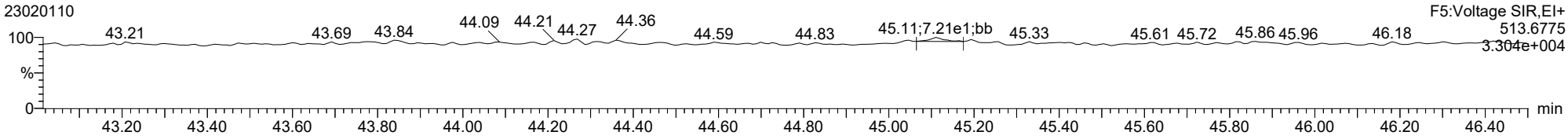

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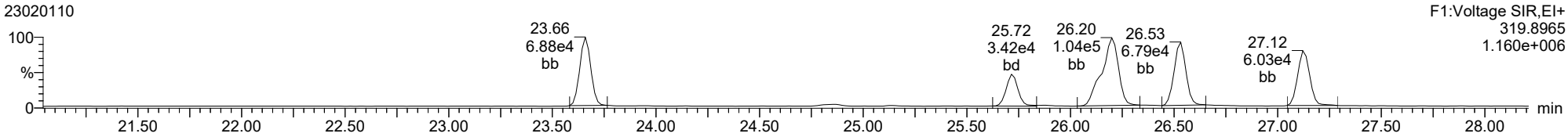

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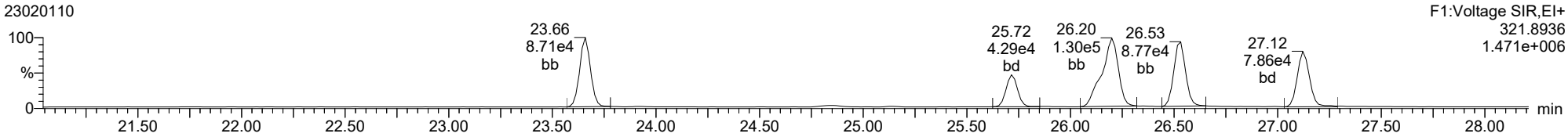

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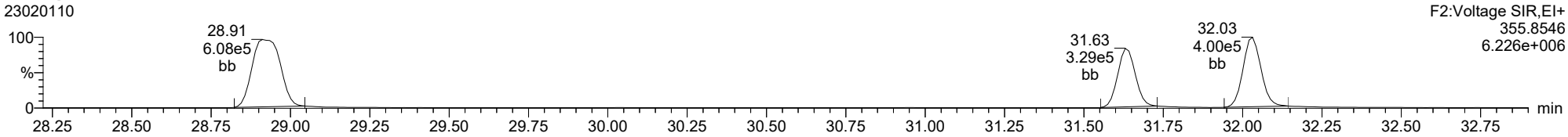

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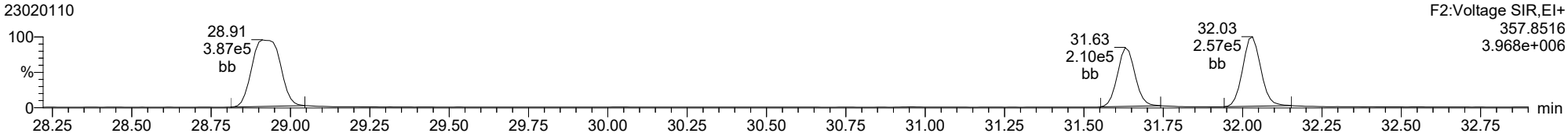

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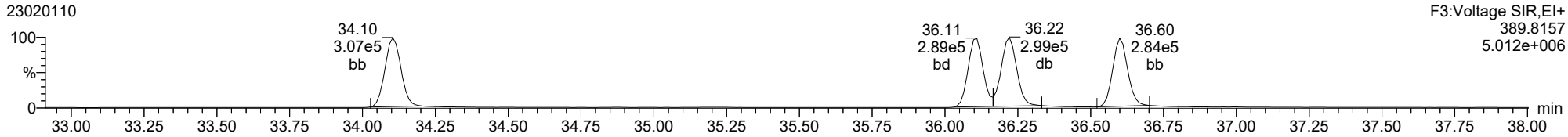

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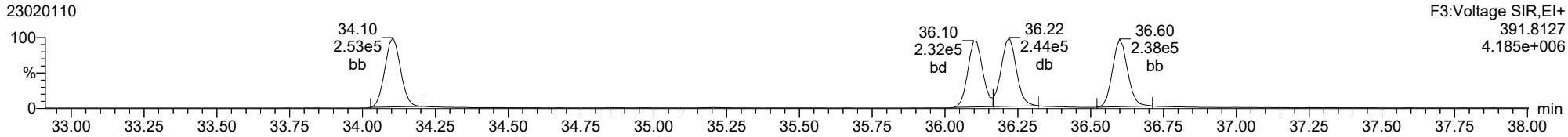

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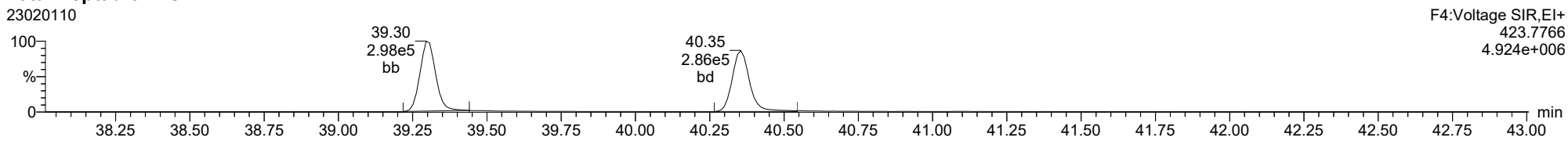

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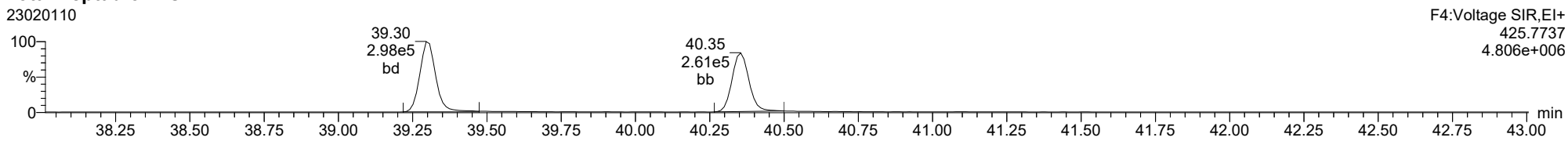

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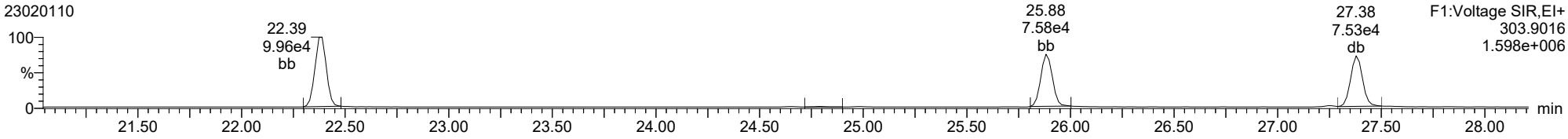
Total-tetrafurans



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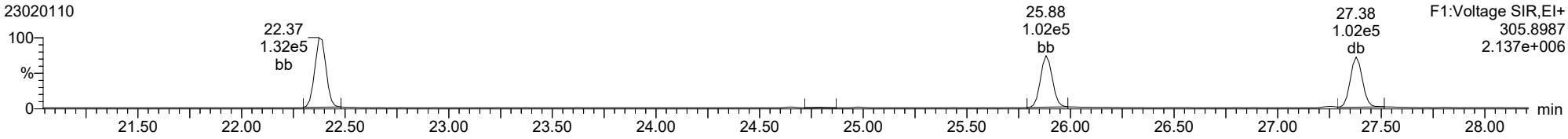

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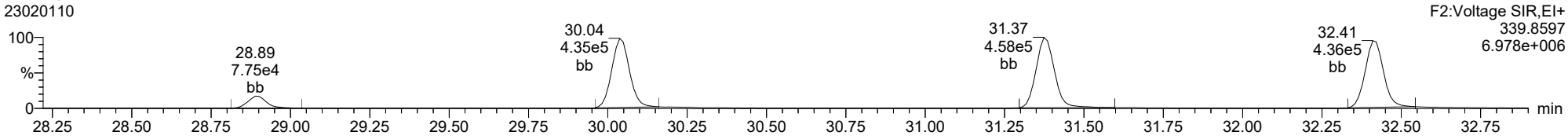

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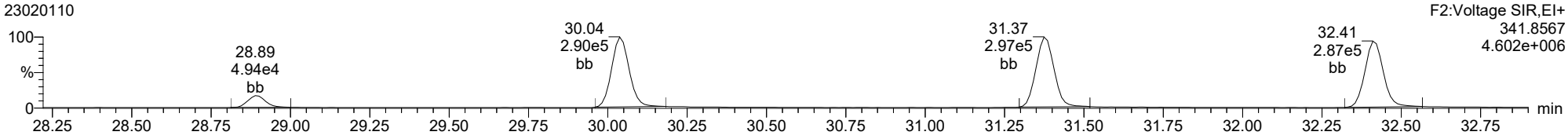

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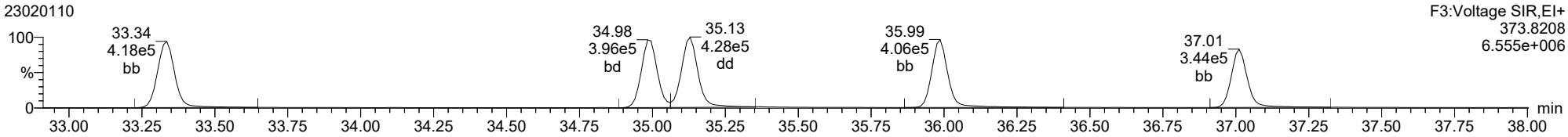
Total-hexafurans



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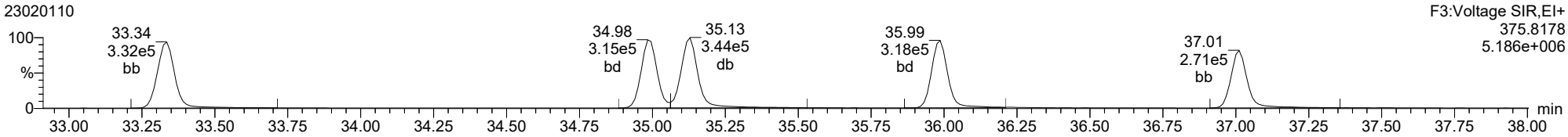

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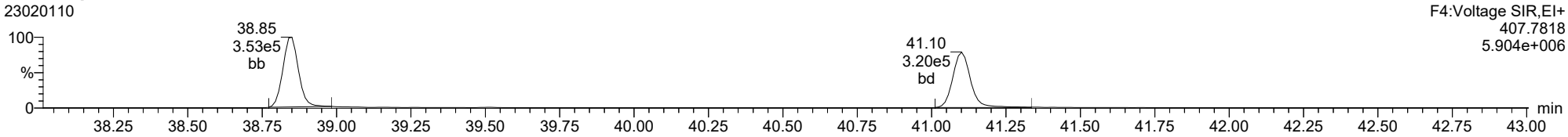

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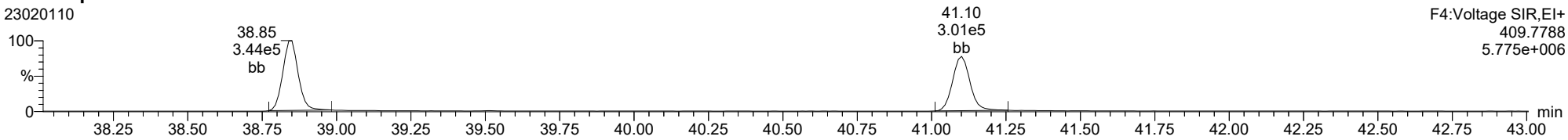

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Printed: Friday, February 03, 2023 11:23:25 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	6.336e4	8.393e4	0.876	0.755	0.770	1070	1746	9.70e5	1.26e6	906.6	721.7	NO	bb	bb	10.162
12378-PeCDF	30.048	1.001	3.709e5	2.488e5	0.845	1.491	1.550	3113	3215	5.69e6	3.70e6	1826.3	1149.4	NO	bb	bd	50.020
23478-PeCDF	31.385	1.001	3.851e5	2.639e5	0.911	1.459	1.550	3113	3215	5.96e6	3.97e6	1913.7	1234.6	NO	bb	bd	50.684
123478-HxCDF	34.995	1.001	3.366e5	2.649e5	1.182	1.270	1.240	2488	2037	5.32e6	4.21e6	2136.8	2067.1	NO	bd	bd	49.625
234678-HxCDF	35.986	1.000	3.507e5	2.736e5	1.229	1.282	1.240	2488	2037	5.45e6	4.23e6	2188.7	2078.3	NO	bb	bd	52.648
123678-HxCDF	35.129	1.000	3.745e5	2.918e5	1.248	1.283	1.240	2488	2037	5.41e6	4.26e6	2174.2	2090.5	NO	dd	dd	50.908
123789-HxCDF	37.012	1.000	2.970e5	2.380e5	1.187	1.248	1.240	2488	2037	4.75e6	3.76e6	1910.9	1845.7	NO	bd	bb	50.440
1234678-HpCDF	38.850	1.000	2.932e5	2.919e5	1.204	1.004	1.050	3100	2795	4.79e6	4.70e6	1544.8	1680.6	NO	bb	bd	48.294
1234789-HpCDF	41.100	1.000	2.671e5	2.524e5	1.165	1.058	1.050	3100	2795	3.96e6	3.73e6	1278.4	1333.4	NO	bb	bb	49.677
OCDF	45.358	1.006	3.958e5	4.645e5	1.186	0.852	0.890	1455	4440	4.72e6	5.37e6	3247.1	1209.2	NO	bb	bd	90.445
2378-TCDD	26.532	1.001	5.892e4	7.101e4	1.236	0.830	0.770	1225	1339	8.91e5	1.09e6	727.0	817.8	NO	dd	bb	9.397
12378-PeCDD	31.642	1.001	2.888e5	1.854e5	1.087	1.558	1.550	2693	2242	4.44e6	2.82e6	1647.5	1257.1	NO	bb	bb	51.126
123478-HxCDD	36.109	1.000	2.420e5	2.004e5	0.987	1.207	1.240	3333	2112	4.15e6	3.36e6	1245.4	1591.3	NO	bd	bd	50.303
123678-HxCDD	36.221	1.000	2.536e5	2.261e5	1.021	1.122	1.240	3333	2112	4.16e6	3.48e6	1248.0	1648.2	NO	db	db	51.010
123789-HxCDD	36.611	1.011	2.491e5	2.029e5	0.985	1.228	1.240	3333	2112	4.05e6	3.32e6	1216.5	1574.2	NO	bb	bb	50.610
1234678-HpCDD	40.354	1.000	2.244e5	2.131e5	1.253	1.053	1.050	2651	2455	3.41e6	3.28e6	1286.0	1334.6	NO	bb	bb	45.500
OCDD	45.120	1.000	3.894e5	4.309e5	1.103	0.904	0.890	2219	2267	4.59e6	5.31e6	2068.3	2340.4	NO	bd	bb	92.775
13C-2378-TCDF	25.867	1.006	7.314e5	9.230e5	1.768	0.792	0.770	2216	1949	1.12e7	1.43e7	5056.1	7338.5	NO	bb	bb	95.256
13C-12378-PeCDF	30.026	1.168	8.745e5	5.922e5	1.527	1.477	1.550	3934	3547	1.37e7	8.95e6	3469.6	2522.0	NO	bb	bd	97.769
13C-23478-PeCDF	31.363	1.220	8.488e5	5.566e5	1.466	1.525	1.550	3934	3547	1.32e7	8.62e6	3344.9	2430.1	NO	bb	bb	97.572
13C-123478-HxCDF	34.973	0.956	3.485e5	6.773e5	1.054	0.515	0.510	2953	4567	5.67e6	1.10e7	1918.4	2413.6	NO	bd	bd	101.894
13C-123678-HxCDF	35.118	0.960	3.543e5	6.945e5	1.080	0.510	0.510	2953	4567	5.60e6	1.10e7	1895.3	2409.2	NO	db	db	101.648
13C-234678-HxCDF	35.975	0.983	3.286e5	6.364e5	1.014	0.516	0.510	2953	4567	5.48e6	1.04e7	1855.6	2267.5	NO	bb	bb	99.572
13C-123789-HxCDF	37.000	1.011	3.031e5	5.907e5	0.928	0.513	0.510	2953	4567	5.28e6	1.02e7	1789.2	2235.2	NO	bb	bb	100.817
13C-1234678-HpCDF	38.839	1.062	3.130e5	6.930e5	1.036	0.452	0.440	2151	4289	5.21e6	1.16e7	2423.7	2703.6	NO	bb	bb	101.637
13C-1234789-HpCDF	41.089	1.123	2.806e5	6.168e5	0.905	0.455	0.440	2151	4289	4.21e6	9.25e6	1954.9	2156.4	NO	bb	bb	103.794
13C-1234-TCDD	25.700	0.000	4.358e5	5.465e5	1.000	0.797	0.770	2468	2151	6.80e6	8.50e6	2756.9	3953.0	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	4.953e5	6.230e5	1.103	0.795	0.770	2468	2151	7.43e6	9.28e6	3010.2	4316.3	NO	bb	bb	103.212
13C-12378-PeCDD	31.619	1.230	5.254e5	3.282e5	0.914	1.601	1.550	1809	1341	8.04e6	5.00e6	4443.5	3732.3	NO	bb	bb	95.052
13C-123478-HxCDD	36.098	0.987	5.053e5	3.859e5	0.933	1.309	1.240	2226	2294	8.20e6	6.16e6	3683.0	2686.4	NO	bd	bd	99.984
13C-123678-HxCDD	36.209	0.990	5.186e5	4.029e5	0.965	1.287	1.240	2226	2294	8.41e6	6.65e6	3779.0	2898.5	NO	db	db	99.982
13C-1234678-HpCDD	40.343	1.103	3.959e5	3.716e5	0.782	1.065	1.050	2537	2687	6.19e6	5.69e6	2441.5	2116.3	NO	bb	bb	102.734
13C-OCDD	45.101	1.233	7.625e5	8.412e5	0.788	0.906	0.890	3243	2707	9.59e6	1.05e7	2957.5	3872.2	NO	bb	bb	212.953
13C-123789-HxCDD	36.588	0.000	5.441e5	4.113e5	1.000	1.323	1.240	2226	2294	8.88e6	6.75e6	3989.4	2943.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	1.096e5		1.233			1635		1.65e6		1009.4			bb		9.045

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Last Altered: Friday, February 03, 2023 11:22:32 Pacific Standard Time
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.389	0.866	7.606e4	1.001e5	1.064	0.760	0.770	1070	1746	1.19e6	1.52e6	1110.3	869.1	NO	bb	bb	10.001
1289-TCDF	27.378	1.058	6.304e4	8.031e4	0.858	0.785	0.770	1070	1746	9.18e5	1.16e6	858.3	662.3	NO	dd	db	10.103
13468-PECDF	27.242	0.907	4.375e5	2.852e5	1.013	1.534	1.550	920	1180	6.83e6	4.45e6	7421.7	3771.3	NO	bb	bb	48.645
12389-PECDF	32.421	1.080	3.692e5	2.469e5	0.844	1.495	1.550	3113	3215	5.48e6	3.56e6	1760.8	1106.5	NO	bb	bd	49.793
123468-HXCDF	33.335	0.953	3.502e5	2.713e5	1.197	1.291	1.240	2488	2037	5.19e6	4.08e6	2086.3	2002.8	NO	bb	bd	50.610
1368-TCDD	23.659	0.892	5.296e4	6.607e4	1.084	0.802	0.770	1225	1339	8.46e5	1.08e6	690.5	804.7	NO	bb	bb	9.816
1289-TCDD	27.121	1.023	4.842e4	6.049e4	0.975	0.800	0.770	1225	1339	7.05e5	8.85e5	575.4	661.1	NO	bb	bb	9.987
12479-PECDD	28.912	0.914	4.728e5	3.089e5	1.837	1.530	1.550	2693	2242	4.61e6	3.01e6	1713.2	1342.4	NO	bb	bb	49.845
12389-PECDD	32.032	1.013	3.302e5	2.107e5	1.252	1.567	1.550	2693	2242	5.03e6	3.18e6	1869.4	1418.4	NO	bb	bb	50.596
124679-HXCDD	34.104	0.945	2.577e5	2.083e5	1.033	1.237	1.240	3333	2112	4.11e6	3.36e6	1234.1	1592.7	NO	bb	bb	50.624
1234679-HPCDD	39.307	0.974	2.468e5	2.463e5	1.286	1.002	1.050	2651	2455	3.99e6	3.89e6	1503.1	1583.0	NO	bb	bd	49.957
Total-tetrafurans			2.030e5		0.933			1070		3.09e6							30.345
Total-penta1			4.375e5					920		6.83e6							48.645
Total-pentafurans			1.184e6		0.866			3113		1.80e7							158.351
Total-hexafurans			1.709e6		1.208			2488		2.61e7							254.231
Total-heptafurans			5.602e5		1.185			3100		8.75e6							97.972
Total-Furans			4.489e6		1.067			1070		6.75e7							679.989
Total-tetradioxins			2.729e5		1.099			1225		3.70e6							49.674
Total-pentadioxins			1.093e6		1.392			2693		1.41e7							151.752
Total-hexadioxins			1.003e6		1.007			3333		1.65e7							202.708
Total-heptadioxins			4.712e5		1.269			2651		7.39e6							95.457
Total-Dioxins			3.230e6		1.165			1225		4.63e7							592.366
Total-TEQ			7.719e6					1225		1.14e8							1272.355
FUNCTION1 PFK			5.445e5					518107		1.64e7							
FUNCTION2 PFK			0.000e0					179627		0.00e0							
FUNCTION3 PFK			0.000e0					451502		0.00e0							
FUNCTION4 PFK			1.511e5					331096		1.60e6							
FUNCTION5 PFK			9.048e3					184760		4.73e5							
FUNCTION1 HXCD...			1.131e3					606		1.62e4							0.000
FUNCTION1 HPCD...			5.247e2					900		8.84e3							0.000
FUNCTION2 HPCD...			8.476e2					1136		1.98e4							0.000
FUNCTION3 OCDPE			4.428e2					714		7.64e3							0.000
FUNCTION4 NCDPE			0.000e0					982		0.00e0							
FUNCTION5 DCDPE			0.000e0					815		0.00e0							

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.304e4	8.031e4	0.858	0.79	0.77	858.3	YES	NO	dd	db	10.103
2	2378-TCDF	25.88	6.336e4	8.393e4	0.876	0.75	0.77	906.6	YES	NO	bb	bb	10.162
3	Total-tetrafurans	24.97	5.535e2	6.624e2	0.933	0.84	0.77	8.4	YES	NO	bb	bb	0.079
4	1368-TCDF	22.39	7.606e4	1.001e5	1.064	0.76	0.77	1110.3	YES	NO	bb	bb	10.001

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.24	4.375e5	2.852e5	1.013	1.53	1.55	7421.7	YES	NO	bb	bb	48.645

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.90	5.868e4	3.904e4	0.866	1.50	1.55	293.6	YES	NO	bb	bb	7.853
2	12389-PECDF	32.42	3.692e5	2.469e5	0.844	1.50	1.55	1760.8	YES	NO	bb	bd	49.793
3	23478-PeCDF	31.39	3.851e5	2.639e5	0.911	1.46	1.55	1913.7	YES	NO	bb	bd	50.684
4	12378-PeCDF	30.05	3.709e5	2.488e5	0.845	1.49	1.55	1826.3	YES	NO	bb	bd	50.020

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.01	2.970e5	2.380e5	1.187	1.25	1.24	1910.9	YES	NO	bd	bb	50.440
2	234678-HxCDF	35.99	3.507e5	2.736e5	1.229	1.28	1.24	2188.7	YES	NO	bb	bd	52.648
3	123678-HxCDF	35.13	3.745e5	2.918e5	1.248	1.28	1.24	2174.2	YES	NO	dd	dd	50.908
4	123478-HxCDF	34.99	3.366e5	2.649e5	1.182	1.27	1.24	2136.8	YES	NO	bd	bd	49.625
5	123468-HXCDF	33.33	3.502e5	2.713e5	1.197	1.29	1.24	2086.3	YES	NO	bb	bd	50.610

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.85	2.932e5	2.919e5	1.204	1.00	1.05	1544.8	YES	NO	bb	bd	48.294
2	1234789-HpCDF	41.10	2.671e5	2.524e5	1.165	1.06	1.05	1278.4	YES	NO	bb	bb	49.677

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.304e4	8.031e4	0.858	0.79	0.77	858.3	YES	NO	dd	db	10.103
2	2378-TCDF	25.88	6.336e4	8.393e4	0.876	0.75	0.77	906.6	YES	NO	bb	bb	10.162
3	Total-tetrafurans	24.97	5.535e2	6.624e2	0.933	0.84	0.77	8.4	YES	NO	bb	bb	0.079
4	1368-TCDF	22.39	7.606e4	1.001e5	1.064	0.76	0.77	1110.3	YES	NO	bb	bb	10.001
5	Total-pentafurans	28.90	5.868e4	3.904e4	0.866	1.50	1.55	293.6	YES	NO	bb	bb	7.853
6	12389-PECDF	32.42	3.692e5	2.469e5	0.844	1.50	1.55	1760.8	YES	NO	bb	bd	49.793
7	23478-PeCDF	31.39	3.851e5	2.639e5	0.911	1.46	1.55	1913.7	YES	NO	bb	bd	50.684
8	12378-PeCDF	30.05	3.709e5	2.488e5	0.845	1.49	1.55	1826.3	YES	NO	bb	bd	50.020
9	123789-HxCDF	37.01	2.970e5	2.380e5	1.187	1.25	1.24	1910.9	YES	NO	bd	bb	50.440
10	234678-HxCDF	35.99	3.507e5	2.736e5	1.229	1.28	1.24	2188.7	YES	NO	bb	bd	52.648
11	123678-HxCDF	35.13	3.745e5	2.918e5	1.248	1.28	1.24	2174.2	YES	NO	dd	dd	50.908
12	123478-HxCDF	34.99	3.366e5	2.649e5	1.182	1.27	1.24	2136.8	YES	NO	bd	bd	49.625
13	123468-HXCDF	33.33	3.502e5	2.713e5	1.197	1.29	1.24	2086.3	YES	NO	bb	bd	50.610
14	1234678-HpCDF	38.85	2.932e5	2.919e5	1.204	1.00	1.05	1544.8	YES	NO	bb	bd	48.294
15	1234789-HpCDF	41.10	2.671e5	2.524e5	1.165	1.06	1.05	1278.4	YES	NO	bb	bb	49.677
16	OCDF	45.36	3.958e5	4.645e5	1.186	0.85	0.89	3247.1	YES	NO	bb	bd	90.445
17	13468-PECDF	27.24	4.375e5	2.852e5	1.013	1.53	1.55	7421.7	YES	NO	bb	bb	48.645

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	5.892e4	7.101e4	1.236	0.83	0.77	727.0	YES	NO	dd	bb	9.397
2	Total-tetradioxins	26.21	8.373e4	1.038e5	1.099	0.81	0.77	673.5	YES	NO	bd	bb	15.262
3	Total-tetradioxins	25.72	2.649e4	3.214e4	1.099	0.82	0.77	333.6	YES	NO	bb	bb	4.772
4	Total-tetradioxins	24.85	2.420e3	2.985e3	1.099	0.81	0.77	19.9	YES	NO	bb	bb	0.440
5	1368-TCDD	23.66	5.296e4	6.607e4	1.084	0.80	0.77	690.5	YES	NO	bb	bb	9.816
6	1289-TCDD	27.12	4.842e4	6.049e4	0.975	0.80	0.77	575.4	YES	NO	bb	bb	9.987

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	28.91	4.728e5	3.089e5	1.837	1.53	1.55	1713.2	YES	NO	bb	bb	49.845
2	12389-PECDD	32.03	3.302e5	2.107e5	1.252	1.57	1.55	1869.4	YES	NO	bb	bb	50.596
3	12378-PeCDD	31.64	2.888e5	1.854e5	1.087	1.56	1.55	1647.5	YES	NO	bb	bb	51.126
4	Total-pentadioxins	30.97	1.315e3	8.851e2	1.392	1.49	1.55	7.1	YES	NO	bb	bb	0.185

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.61	2.491e5	2.029e5	0.985	1.23	1.24	1216.5	YES	NO	bb	bb	50.610
2	123678-HxCDD	36.22	2.536e5	2.261e5	1.021	1.12	1.24	1248.0	YES	NO	db	db	51.010
3	123478-HxCDD	36.11	2.420e5	2.004e5	0.987	1.21	1.24	1245.4	YES	NO	bd	bd	50.303
4	Total-hexadioxins	34.86	7.769e2	6.946e2	1.007	1.12	1.24	3.9	YES	NO	bd	bb	0.161
5	124679-HXCDD	34.10	2.577e5	2.083e5	1.033	1.24	1.24	1234.1	YES	NO	bb	bb	50.624

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.31	2.468e5	2.463e5	1.286	1.00	1.05	1503.1	YES	NO	bb	bd	49.957
2	1234678-HpCDD	40.35	2.244e5	2.131e5	1.253	1.05	1.05	1286.0	YES	NO	bb	bb	45.500

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	5.892e4	7.101e4	1.236	0.83	0.77	727.0	YES	NO	dd	bb	9.397
2	Total-tetradioxins	26.21	8.373e4	1.038e5	1.099	0.81	0.77	673.5	YES	NO	bd	bb	15.262
3	Total-tetradioxins	25.72	2.649e4	3.214e4	1.099	0.82	0.77	333.6	YES	NO	bb	bb	4.772
4	Total-tetradioxins	24.85	2.420e3	2.985e3	1.099	0.81	0.77	19.9	YES	NO	bb	bb	0.440
5	1368-TCDD	23.66	5.296e4	6.607e4	1.084	0.80	0.77	690.5	YES	NO	bb	bb	9.816
6	12479-PECDD	28.91	4.728e5	3.089e5	1.837	1.53	1.55	1713.2	YES	NO	bb	bb	49.845
7	1289-TCDD	27.12	4.842e4	6.049e4	0.975	0.80	0.77	575.4	YES	NO	bb	bb	9.987
8	12389-PECDD	32.03	3.302e5	2.107e5	1.252	1.57	1.55	1869.4	YES	NO	bb	bb	50.596
9	12378-PeCDD	31.64	2.888e5	1.854e5	1.087	1.56	1.55	1647.5	YES	NO	bb	bb	51.126
10	Total-pentadioxins	30.97	1.315e3	8.851e2	1.392	1.49	1.55	7.1	YES	NO	bb	bb	0.185
11	123789-HxCDD	36.61	2.491e5	2.029e5	0.985	1.23	1.24	1216.5	YES	NO	bb	bb	50.610
12	123678-HxCDD	36.22	2.536e5	2.261e5	1.021	1.12	1.24	1248.0	YES	NO	db	db	51.010
13	123478-HxCDD	36.11	2.420e5	2.004e5	0.987	1.21	1.24	1245.4	YES	NO	bd	bd	50.303
14	Total-hexadioxins	34.86	7.769e2	6.946e2	1.007	1.12	1.24	3.9	YES	NO	bd	bb	0.161
15	124679-HXCDD	34.10	2.577e5	2.083e5	1.033	1.24	1.24	1234.1	YES	NO	bb	bb	50.624
16	1234679-HPCDD	39.31	2.468e5	2.463e5	1.286	1.00	1.05	1503.1	YES	NO	bb	bd	49.957
17	1234678-HpCDD	40.35	2.244e5	2.131e5	1.253	1.05	1.05	1286.0	YES	NO	bb	bb	45.500
18	OCDD	45.12	3.894e5	4.309e5	1.103	0.90	0.89	2068.3	YES	NO	bd	bb	92.775

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.304e4	8.031e4	0.858	0.79	0.77	858.3	YES	NO	dd	db	10.103
2	2378-TCDF	25.88	6.336e4	8.393e4	0.876	0.75	0.77	906.6	YES	NO	bb	bb	10.162
3	Total-tetrafurans	24.97	5.535e2	6.624e2	0.933	0.84	0.77	8.4	YES	NO	bb	bb	0.079
4	1368-TCDF	22.39	7.606e4	1.001e5	1.064	0.76	0.77	1110.3	YES	NO	bb	bb	10.001
5	Total-pentafurans	28.90	5.868e4	3.904e4	0.866	1.50	1.55	293.6	YES	NO	bb	bb	7.853
6	12389-PECDF	32.42	3.692e5	2.469e5	0.844	1.50	1.55	1760.8	YES	NO	bb	bd	49.793
7	23478-PeCDF	31.39	3.851e5	2.639e5	0.911	1.46	1.55	1913.7	YES	NO	bb	bd	50.684
8	12378-PeCDF	30.05	3.709e5	2.488e5	0.845	1.49	1.55	1826.3	YES	NO	bb	bd	50.020
9	123789-HxCDF	37.01	2.970e5	2.380e5	1.187	1.25	1.24	1910.9	YES	NO	bd	bb	50.440
10	234678-HxCDF	35.99	3.507e5	2.736e5	1.229	1.28	1.24	2188.7	YES	NO	bb	bd	52.648
11	123678-HxCDF	35.13	3.745e5	2.918e5	1.248	1.28	1.24	2174.2	YES	NO	dd	dd	50.908
12	123478-HxCDF	34.99	3.366e5	2.649e5	1.182	1.27	1.24	2136.8	YES	NO	bd	bd	49.625
13	123468-HXCDF	33.33	3.502e5	2.713e5	1.197	1.29	1.24	2086.3	YES	NO	bb	bd	50.610
14	1234678-HpCDF	38.85	2.932e5	2.919e5	1.204	1.00	1.05	1544.8	YES	NO	bb	bd	48.294
15	1234789-HpCDF	41.10	2.671e5	2.524e5	1.165	1.06	1.05	1278.4	YES	NO	bb	bb	49.677
16	OCDF	45.36	3.958e5	4.645e5	1.186	0.85	0.89	3247.1	YES	NO	bb	bd	90.445
17	13468-PECDF	27.24	4.375e5	2.852e5	1.013	1.53	1.55	7421.7	YES	NO	bb	bb	48.645
18	2378-TCDD	26.53	5.892e4	7.101e4	1.236	0.83	0.77	727.0	YES	NO	dd	bb	9.397
19	Total-tetradioxins	26.21	8.373e4	1.038e5	1.099	0.81	0.77	673.5	YES	NO	bd	bb	15.262
20	Total-tetradioxins	25.72	2.649e4	3.214e4	1.099	0.82	0.77	333.6	YES	NO	bb	bb	4.772
21	Total-tetradioxins	24.85	2.420e3	2.985e3	1.099	0.81	0.77	19.9	YES	NO	bb	bb	0.440
22	1368-TCDD	23.66	5.296e4	6.607e4	1.084	0.80	0.77	690.5	YES	NO	bb	bb	9.816
23	12479-PECDD	28.91	4.728e5	3.089e5	1.837	1.53	1.55	1713.2	YES	NO	bb	bb	49.845
24	1289-TCDD	27.12	4.842e4	6.049e4	0.975	0.80	0.77	575.4	YES	NO	bb	bb	9.987
25	12389-PECDD	32.03	3.302e5	2.107e5	1.252	1.57	1.55	1869.4	YES	NO	bb	bb	50.596
26	12378-PeCDD	31.64	2.888e5	1.854e5	1.087	1.56	1.55	1647.5	YES	NO	bb	bb	51.126
27	Total-pentadioxins	30.97	1.315e3	8.851e2	1.392	1.49	1.55	7.1	YES	NO	bb	bb	0.185
28	123789-HxCDD	36.61	2.491e5	2.029e5	0.985	1.23	1.24	1216.5	YES	NO	bb	bb	50.610
29	123678-HxCDD	36.22	2.536e5	2.261e5	1.021	1.12	1.24	1248.0	YES	NO	db	db	51.010
30	123478-HxCDD	36.11	2.420e5	2.004e5	0.987	1.21	1.24	1245.4	YES	NO	bd	bd	50.303
31	Total-hexadioxins	34.86	7.769e2	6.946e2	1.007	1.12	1.24	3.9	YES	NO	bd	bb	0.161
32	124679-HXCDD	34.10	2.577e5	2.083e5	1.033	1.24	1.24	1234.1	YES	NO	bb	bb	50.624
33	1234679-HPCDD	39.31	2.468e5	2.463e5	1.286	1.00	1.05	1503.1	YES	NO	bb	bd	49.957
34	1234678-HpCDD	40.35	2.244e5	2.131e5	1.253	1.05	1.05	1286.0	YES	NO	bb	bb	45.500
35	OCDD	45.12	3.894e5	4.309e5	1.103	0.90	0.89	2068.3	YES	NO	bd	bb	92.775

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Last Altered: Friday, February 03, 2023 11:22:32 Pacific Standard Time
Printed: Friday, February 03, 2023 11:23:25 Pacific Standard Time

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.43	3.727e4					1.3	NO		bb		
2	FUNCTION1 PFK	23.18	1.916e4					1.1	NO		bb		
3	FUNCTION1 PFK	22.75	3.142e3					0.4	NO		bb		
4	FUNCTION1 PFK	22.69	1.169e4					0.7	NO		bb		
5	FUNCTION1 PFK	22.63	7.039e3					0.6	NO		bb		
6	FUNCTION1 PFK	22.57	1.283e4					0.8	NO		db		
7	FUNCTION1 PFK	22.51	2.158e4					1.2	NO		bd		
8	FUNCTION1 PFK	22.36	1.134e4					0.8	NO		bb		
9	FUNCTION1 PFK	22.22	4.269e4					1.3	NO		bb		
10	FUNCTION1 PFK	22.10	3.052e4					1.6	NO		bb		
11	FUNCTION1 PFK	21.62	2.765e4					1.4	NO		bb		
12	FUNCTION1 PFK	21.54	1.965e4					1.2	NO		bb		
13	FUNCTION1 PFK	21.48	1.090e4					0.8	NO		bb		
14	FUNCTION1 PFK	21.29	3.708e4					1.3	NO		bb		
15	FUNCTION1 PFK	26.79	7.221e3					0.6	NO		bb		
16	FUNCTION1 PFK	26.49	8.249e3					0.4	NO		bb		
17	FUNCTION1 PFK	26.41	9.337e3					0.7	NO		db		
18	FUNCTION1 PFK	26.35	9.113e3					0.6	NO		bd		
19	FUNCTION1 PFK	26.15	5.974e3					0.5	NO		bb		
20	FUNCTION1 PFK	26.09	1.716e4					0.9	NO		bb		
21	FUNCTION1 PFK	25.96	1.452e4					1.0	NO		bb		
22	FUNCTION1 PFK	25.59	3.325e3					0.4	NO		bb		
23	FUNCTION1 PFK	25.34	4.402e3					0.6	NO		bb		
24	FUNCTION1 PFK	24.87	9.404e3					0.7	NO		bb		
25	FUNCTION1 PFK	24.75	2.747e4					1.4	NO		bb		
26	FUNCTION1 PFK	24.35	3.959e3					0.5	NO		bb		
27	FUNCTION1 PFK	24.04	7.708e3					0.6	NO		bb		
28	FUNCTION1 PFK	23.69	6.646e3					0.9	NO		bb		
29	FUNCTION1 PFK	23.63	5.706e3					0.6	NO		db		
30	FUNCTION1 PFK	23.57	2.430e4					1.1	NO		bd		
31	FUNCTION1 PFK	28.10	1.253e4					0.8	NO		bb		
32	FUNCTION1 PFK	28.03	8.849e3					0.7	NO		bb		
33	FUNCTION1 PFK	27.95	1.020e4					0.7	NO		bb		
34	FUNCTION1 PFK	27.88	1.726e4					1.1	NO		bb		
35	FUNCTION1 PFK	27.76	3.581e3					0.5	NO		bb		
36	FUNCTION1 PFK	27.41	1.709e4					1.1	NO		bb		
37	FUNCTION1 PFK	27.26	1.794e4					1.0	NO		bb		

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.07	1.511e5					4.8	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.55	2.727e3					1.0	NO		bb		
2	FUNCTION5 PFK	43.63	6.321e3					1.6	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.22	7.029e1					2.0	NO		bb		0.000
2	FUNCTION1 HXCD...	27.79	7.872e1					1.6	NO		bb		0.000
3	FUNCTION1 HXCD...	27.44	8.510e1					1.7	NO		bb		0.000
4	FUNCTION1 HXCD...	27.24	1.425e2					4.1	YES		bb		0.000
5	FUNCTION1 HXCD...	26.86	9.476e1					2.1	NO		bb		0.000
6	FUNCTION1 HXCD...	26.52	1.068e2					2.9	NO		bb		0.000
7	FUNCTION1 HXCD...	24.76	1.755e2					3.8	YES		db		0.000
8	FUNCTION1 HXCD...	24.66	1.713e2					3.1	YES		bd		0.000
9	FUNCTION1 HXCD...	22.65	7.687e1					2.7	NO		bb		0.000
10	FUNCTION1 HXCD...	21.59	1.290e2					2.9	NO		bb		0.000

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	28.01	1.182e2					1.3	NO		bb		0.000
2	FUNCTION1 HPCD...	26.91	1.043e2					2.5	NO		bb		0.000
3	FUNCTION1 HPCD...	26.31	8.865e1					2.0	NO		bb		0.000
4	FUNCTION1 HPCD...	24.76	1.293e2					2.4	NO		bb		0.000
5	FUNCTION1 HPCD...	22.60	8.433e1					1.6	NO		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.44	1.012e2					2.5	NO		bb		0.000
2	FUNCTION2 HPCD...	31.41	1.119e2					1.8	NO		db		0.000
3	FUNCTION2 HPCD...	31.27	2.407e2					5.1	YES		bd		0.000
4	FUNCTION2 HPCD...	30.62	8.382e1					2.0	NO		db		0.000
5	FUNCTION2 HPCD...	30.52	8.939e1					1.4	NO		bd		0.000
6	FUNCTION2 HPCD...	28.80	1.157e2					1.7	NO		bb		0.000
7	FUNCTION2 HPCD...	28.49	1.048e2					3.0	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.99	8.499e1					2.5	NO		bb		0.000
2	FUNCTION3 OCDPE	34.37	1.004e2					2.7	NO		bb		0.000
3	FUNCTION3 OCDPE	33.49	7.795e1					2.6	NO		bb		0.000
4	FUNCTION3 OCDPE	33.13	1.794e2					2.9	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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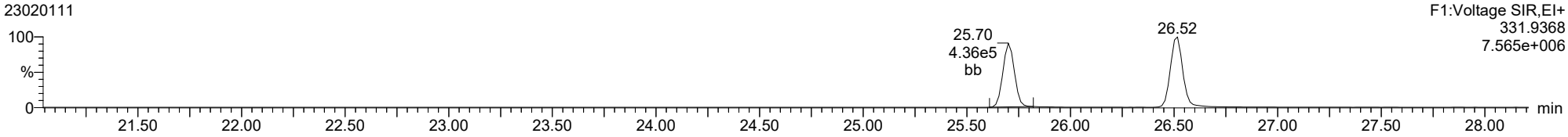
ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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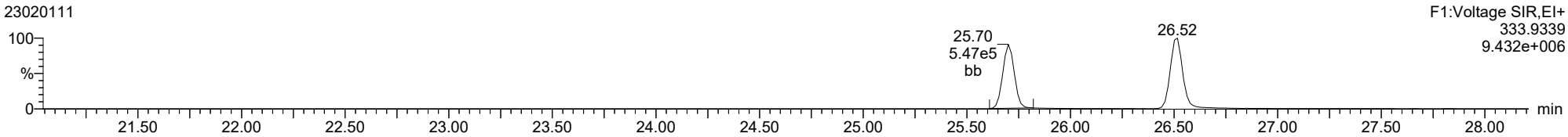

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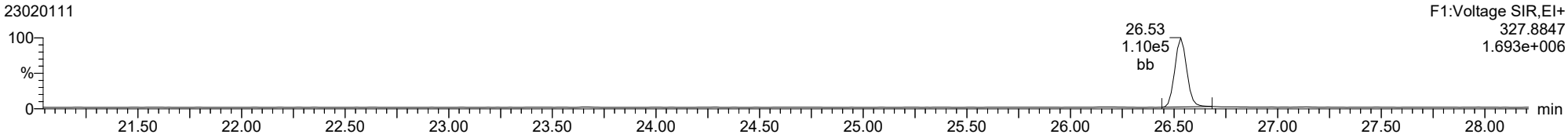

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

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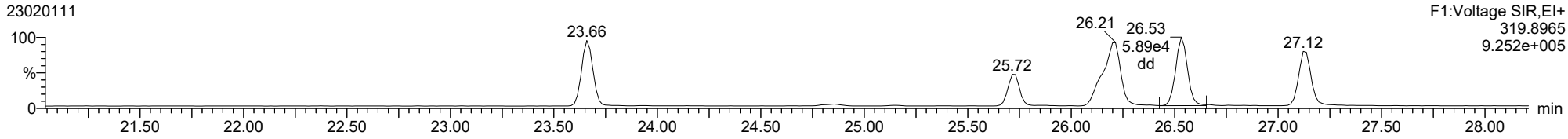

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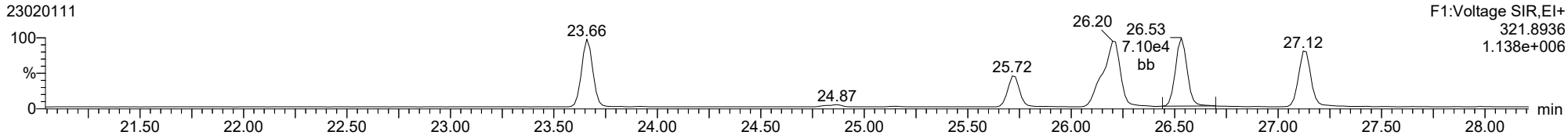

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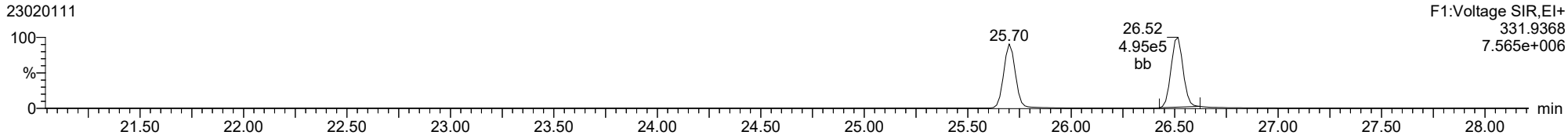

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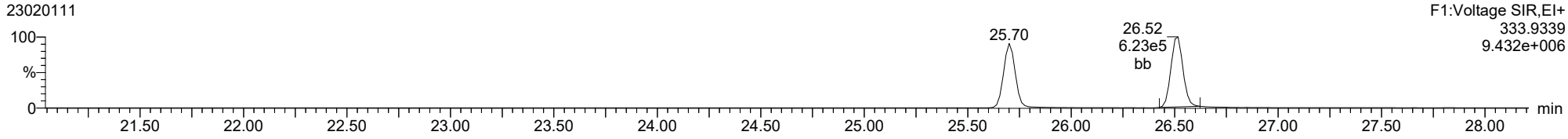
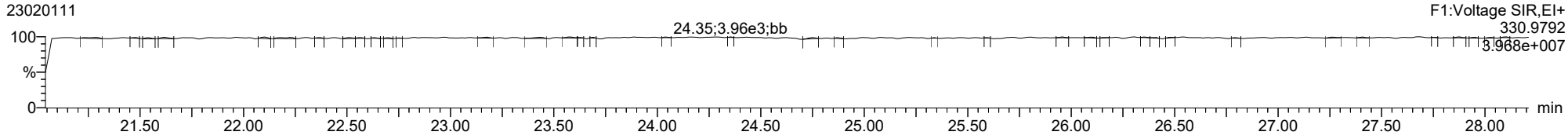


FUNCTION1 PFK



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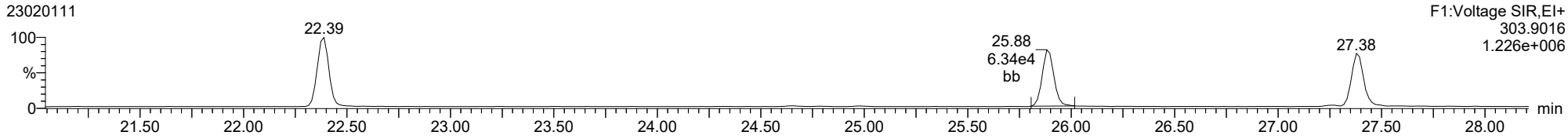

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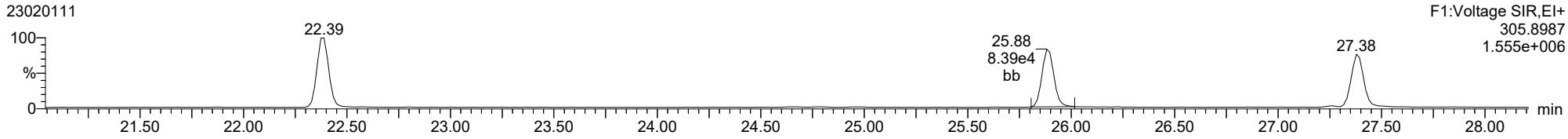

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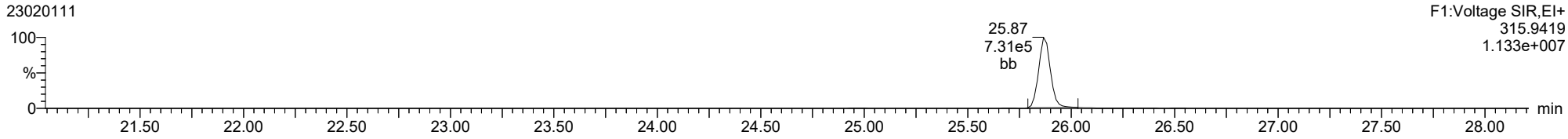

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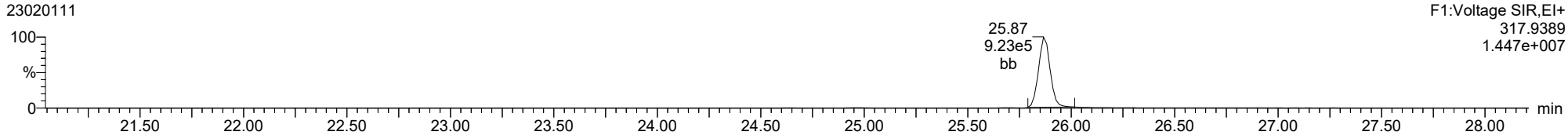
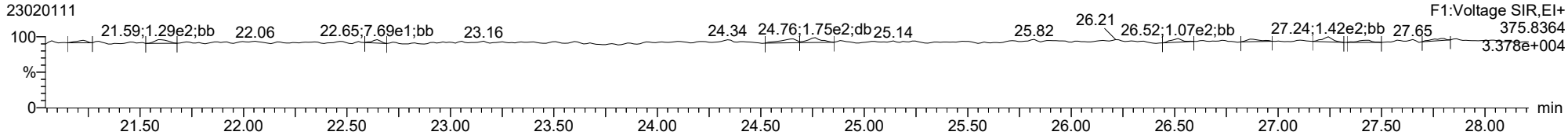


FUNCTION1 HXCDPE



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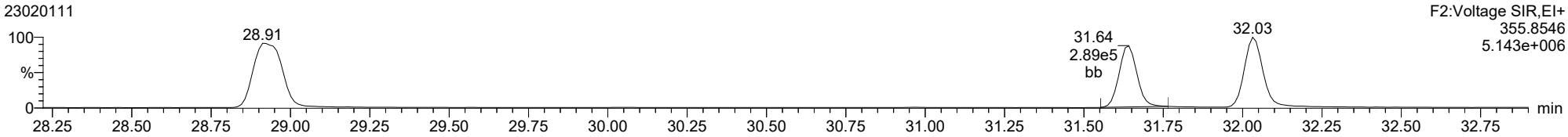

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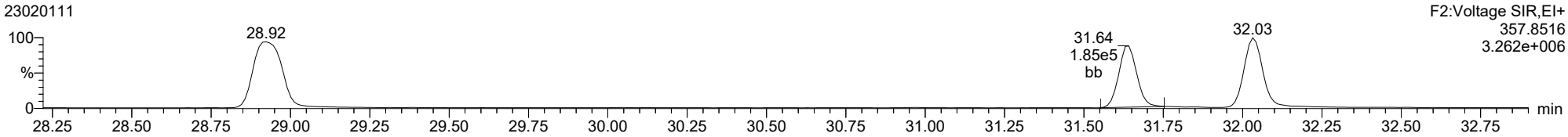

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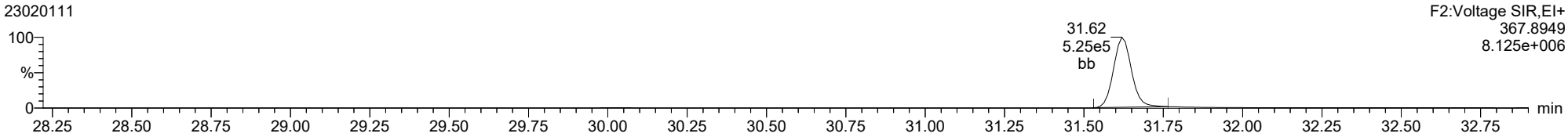

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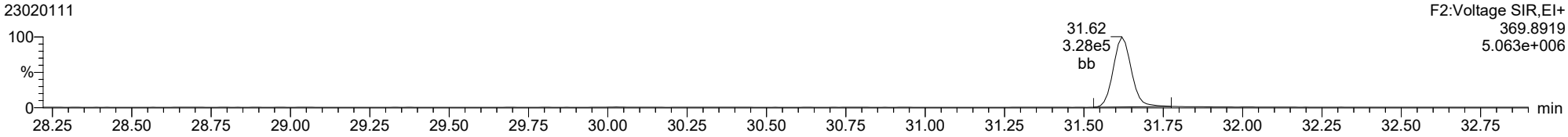
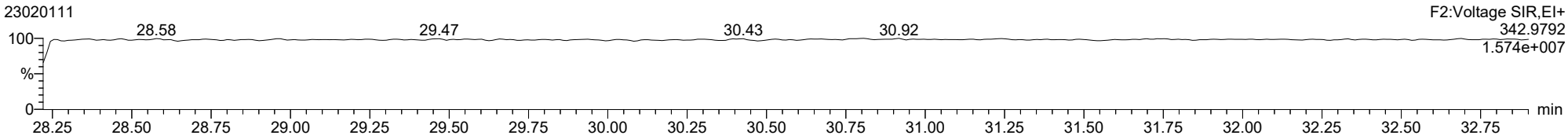


FUNCTION2 PFK



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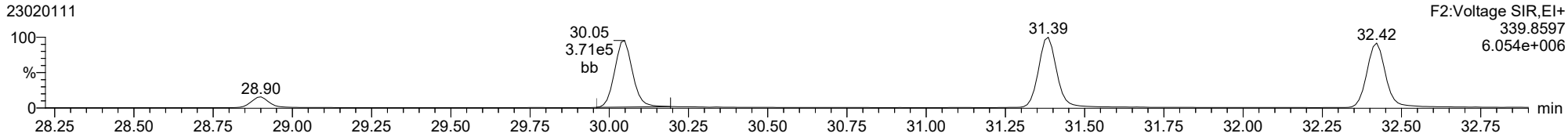

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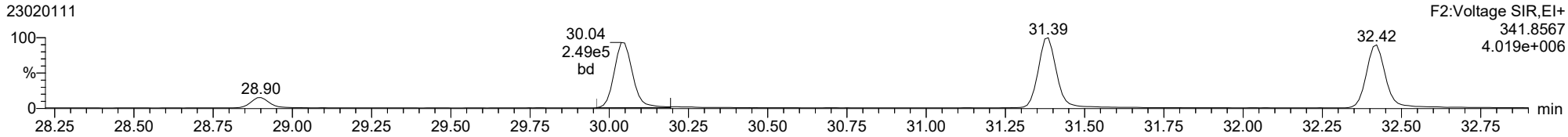

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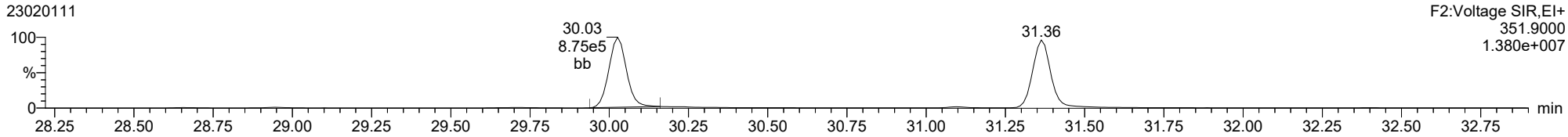

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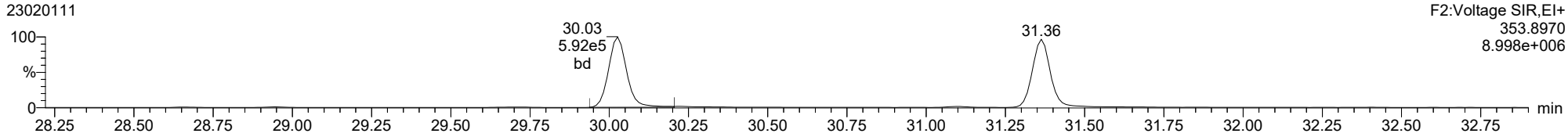
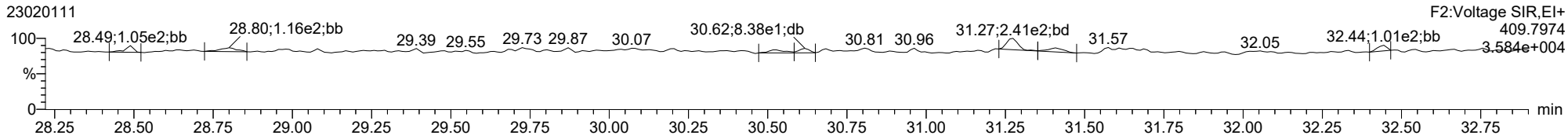


FUNCTION2 HPCDPE



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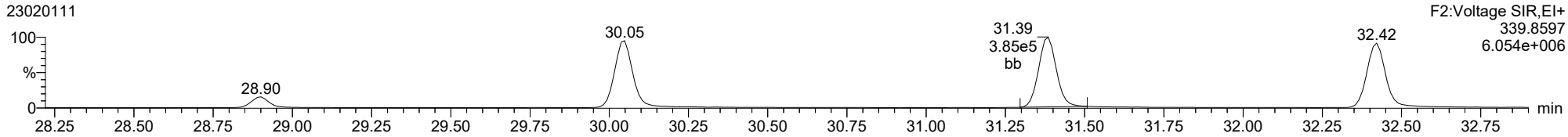
23478-PeCDF



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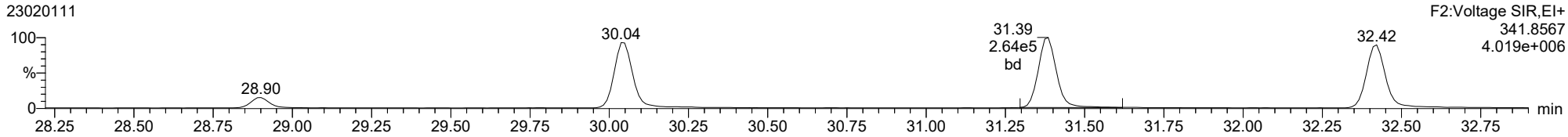

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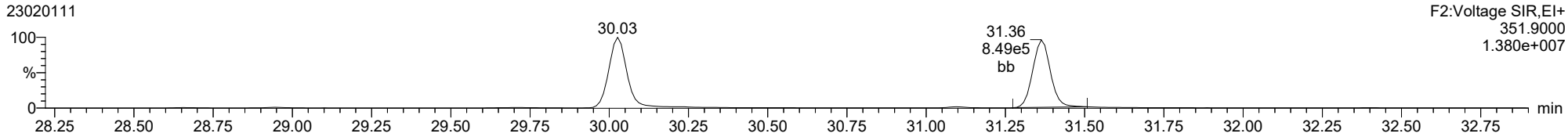

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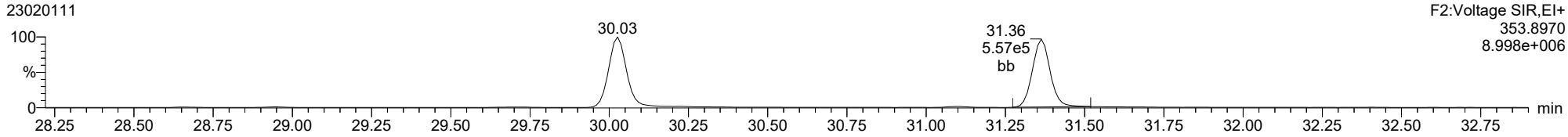
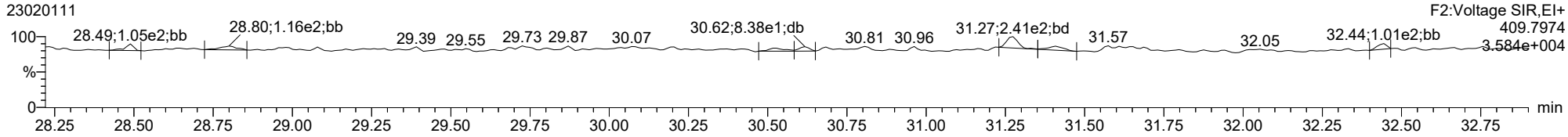
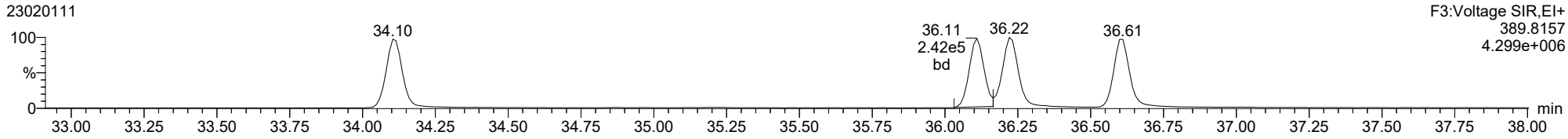


FUNCTION2 HPCDPE



ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

123478-HxCDD



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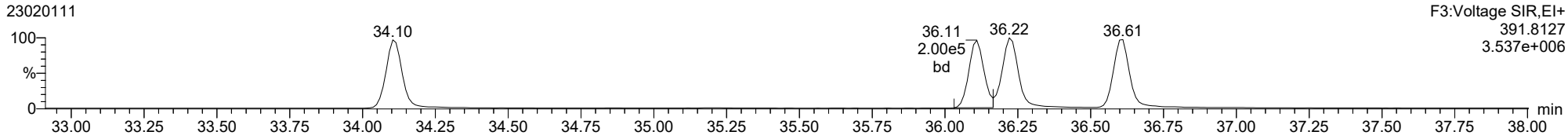

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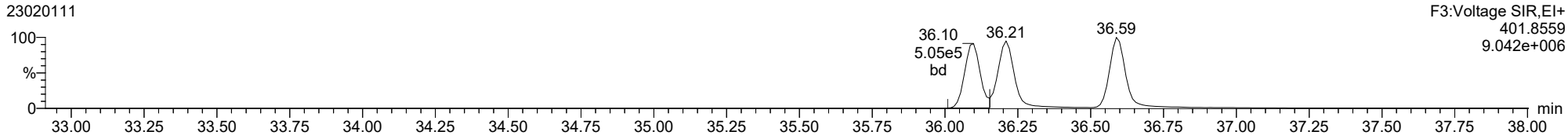

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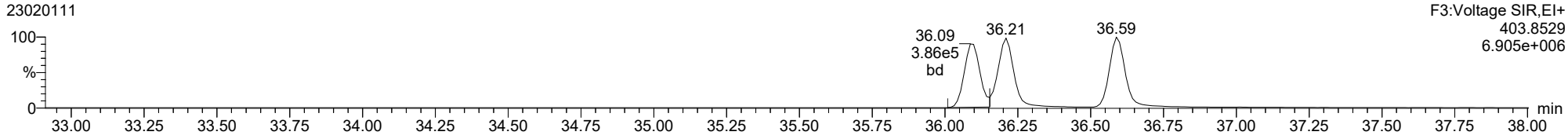

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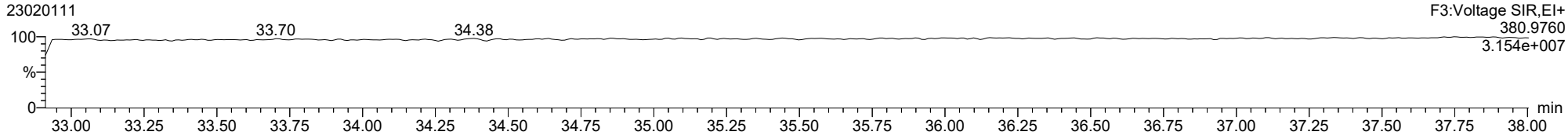

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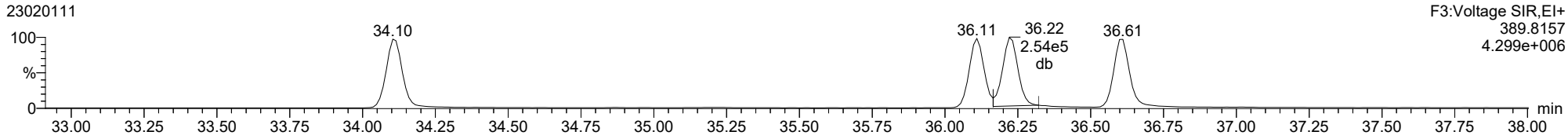

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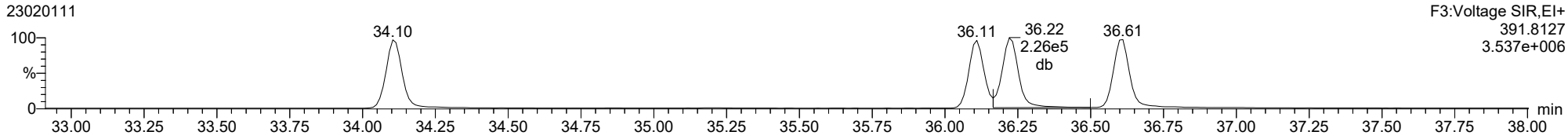

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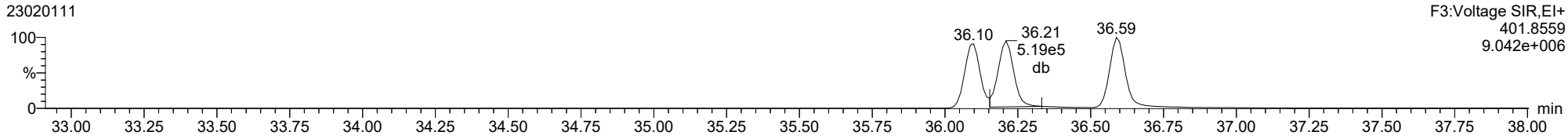

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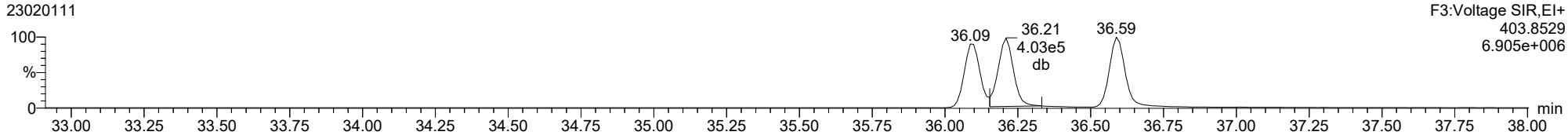

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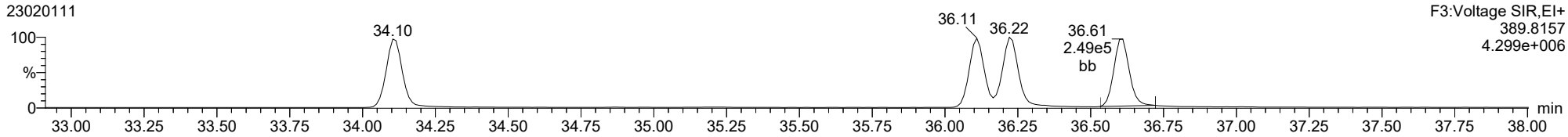

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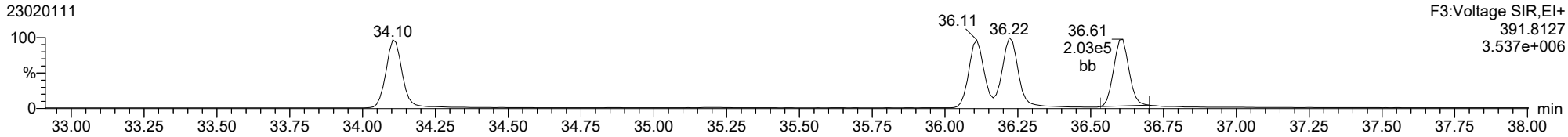

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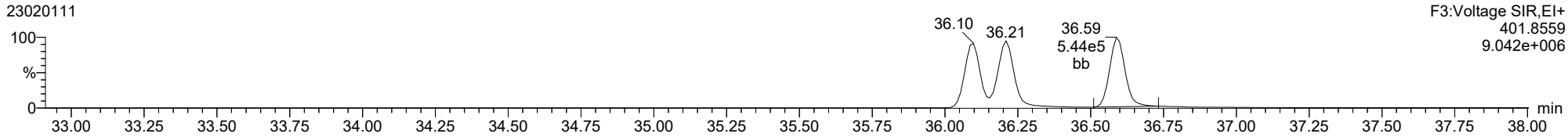

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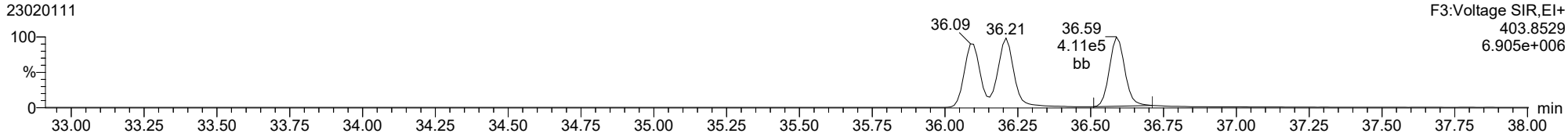

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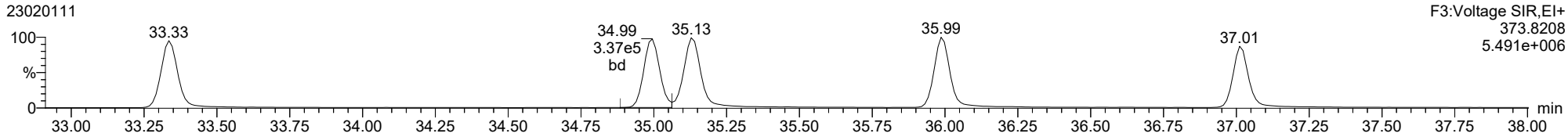

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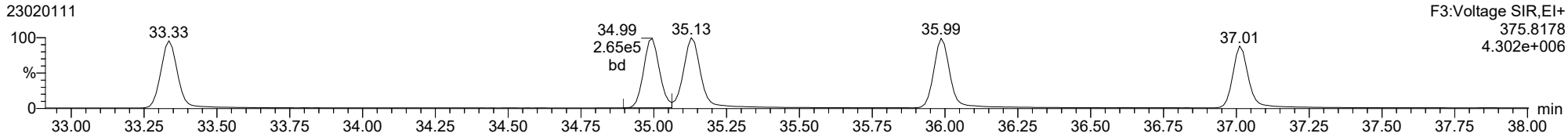

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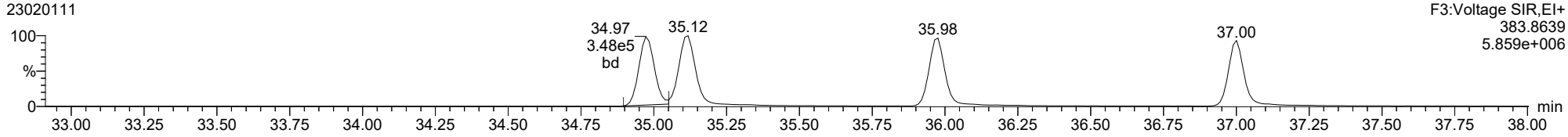

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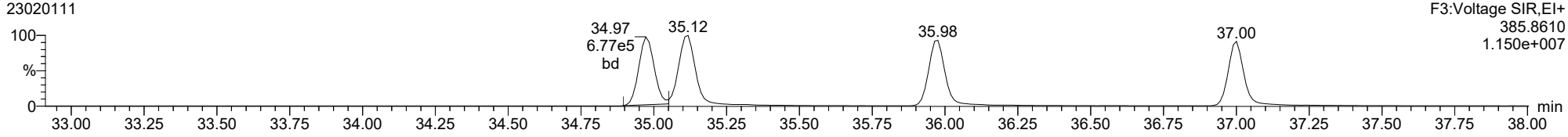

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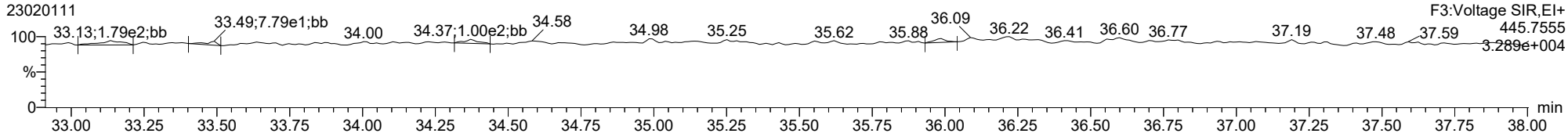

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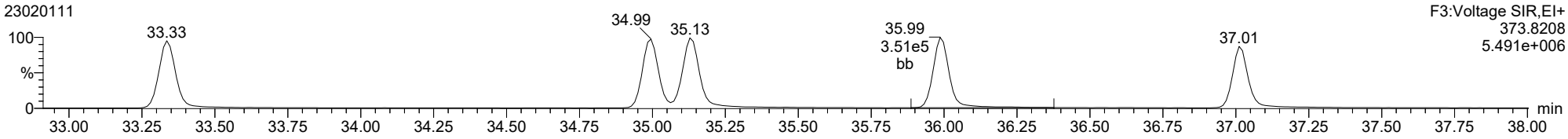

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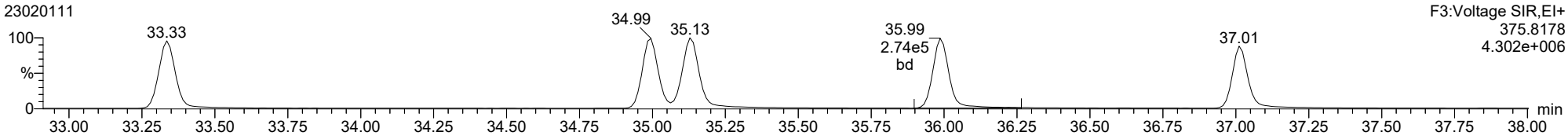

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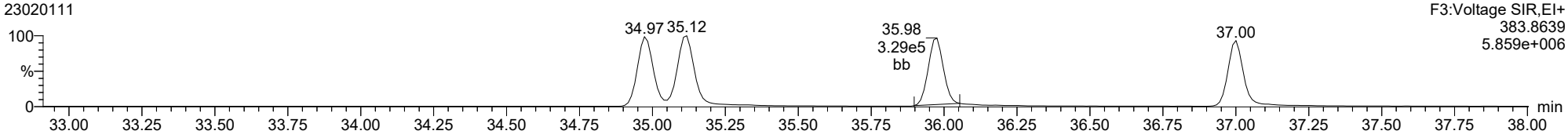

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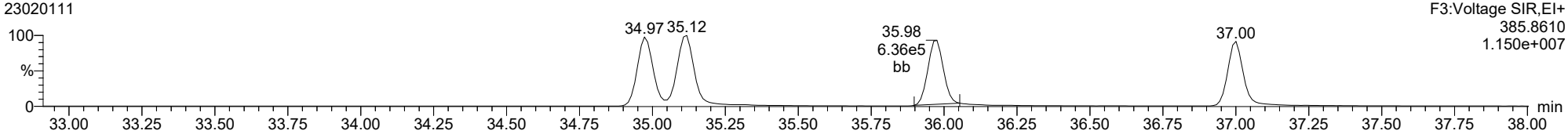

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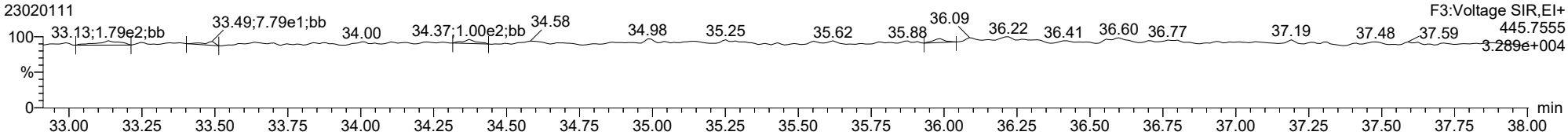

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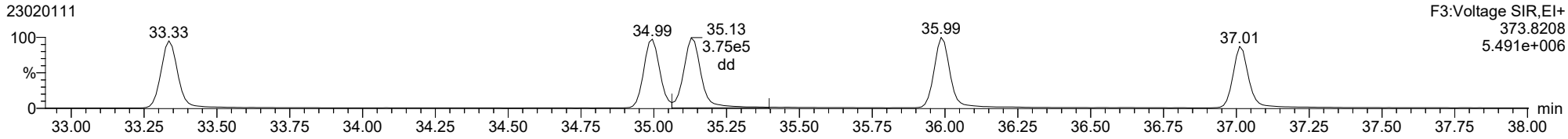

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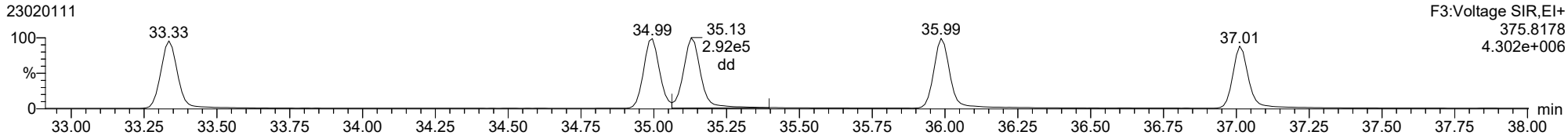

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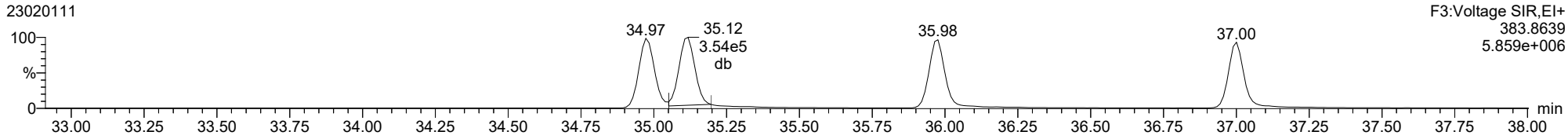

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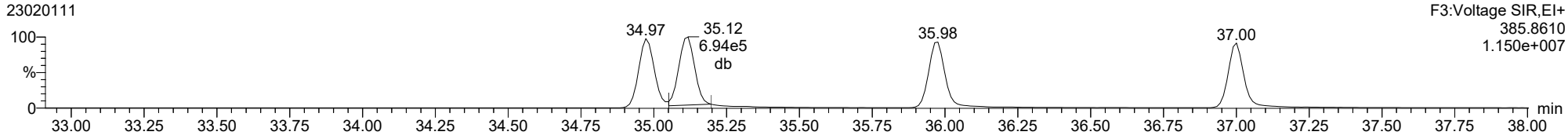

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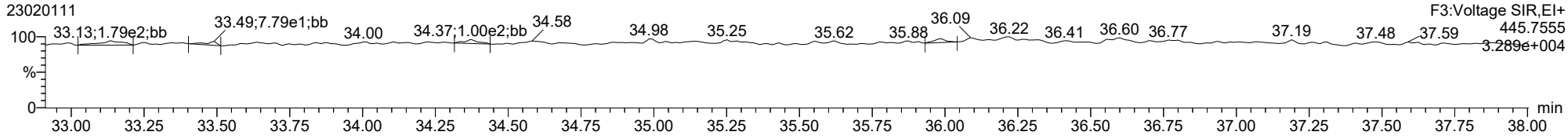

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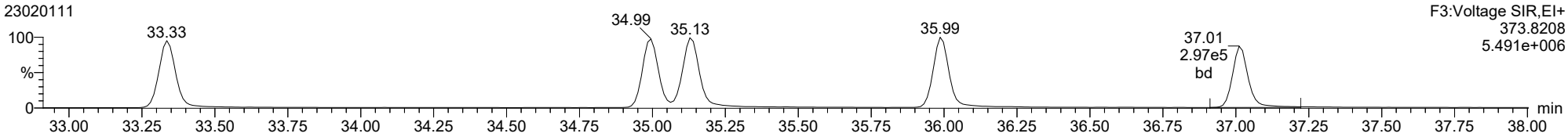

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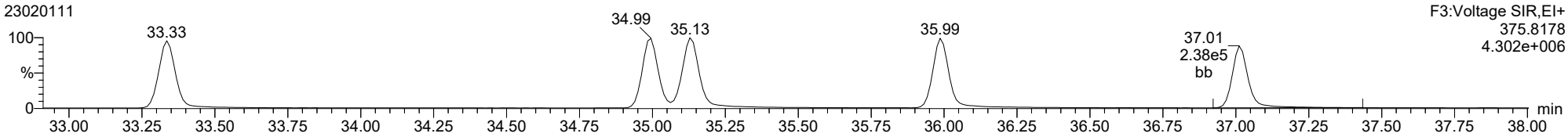

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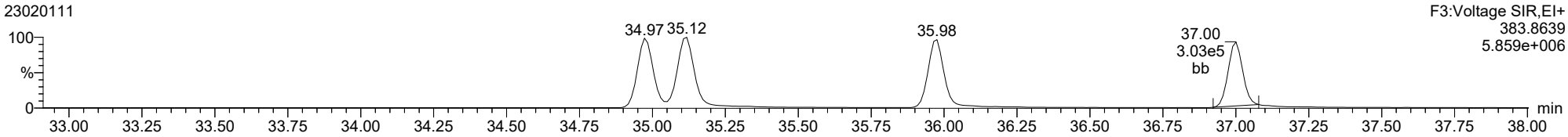

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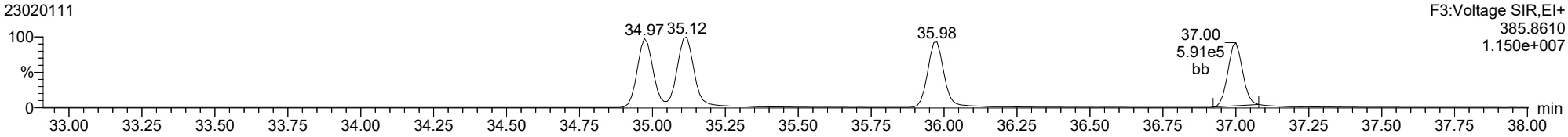

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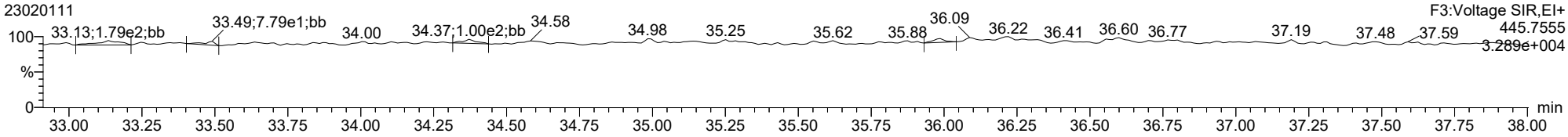

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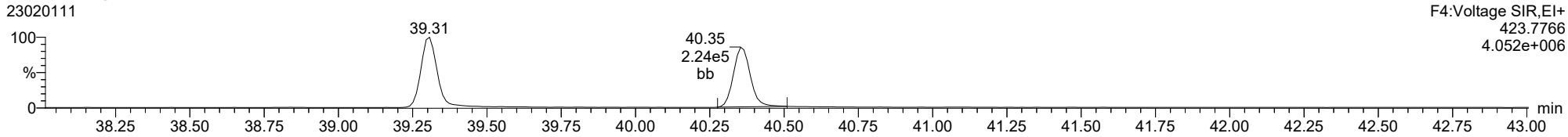

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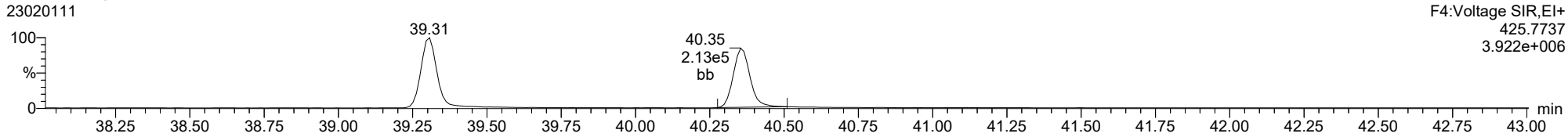

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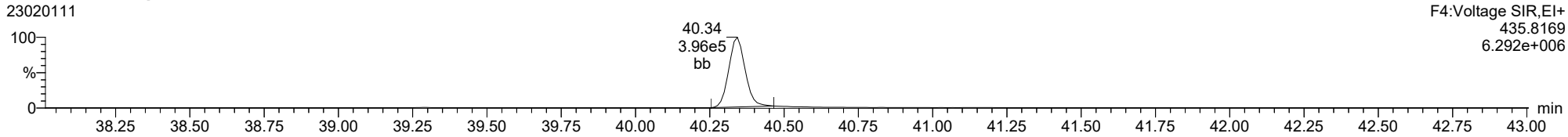

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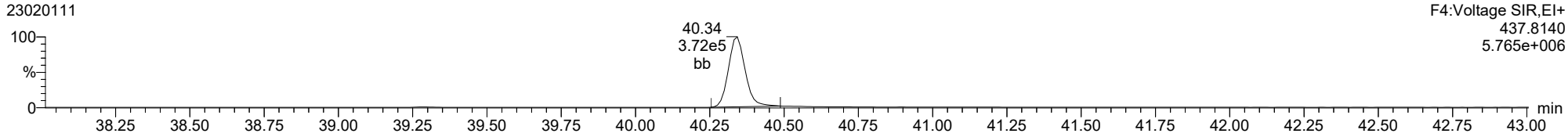

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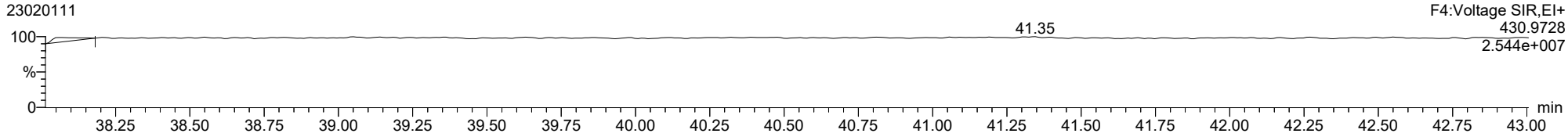

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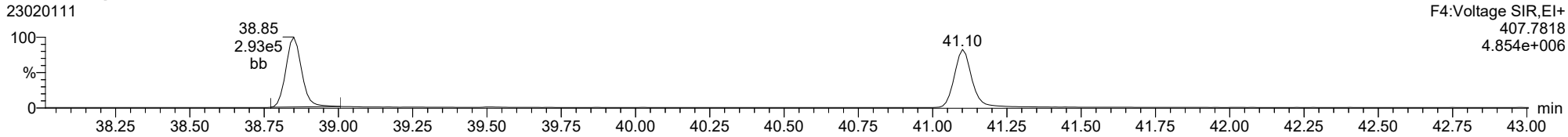

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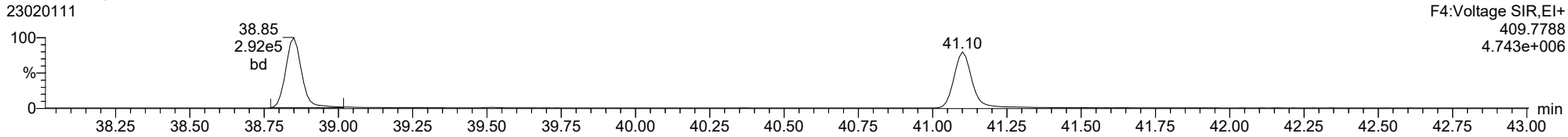

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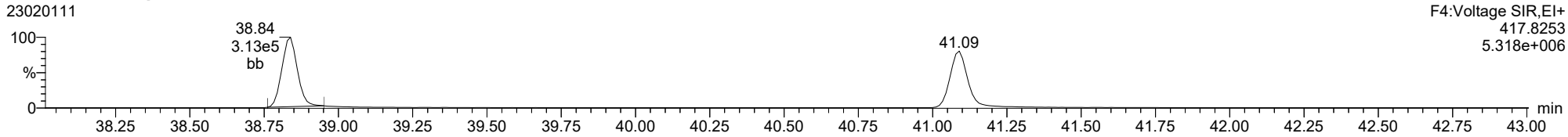

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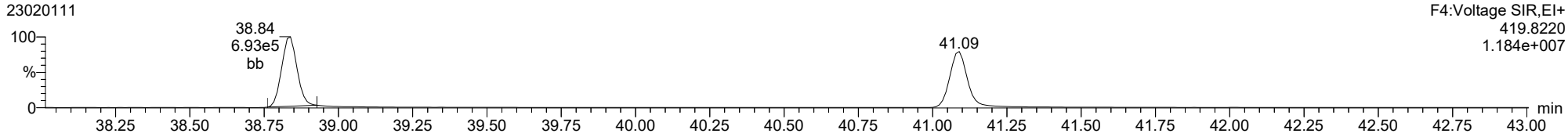

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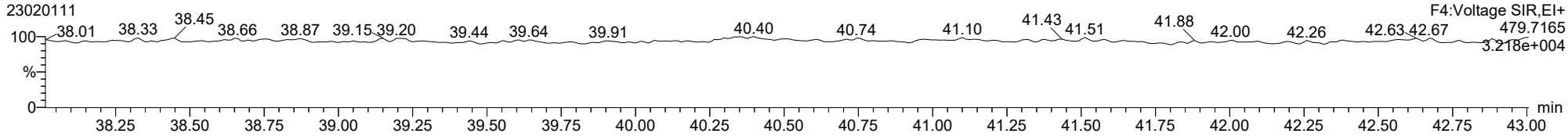

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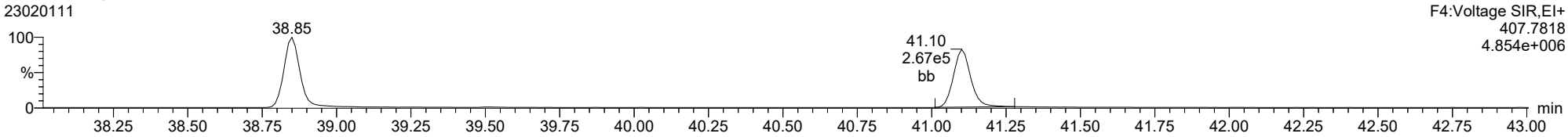

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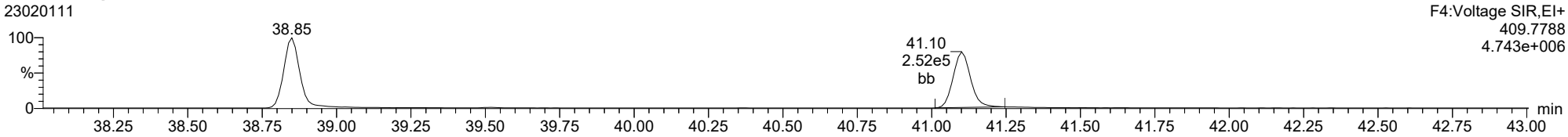

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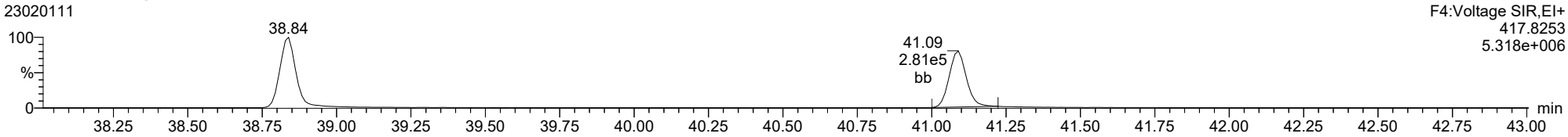

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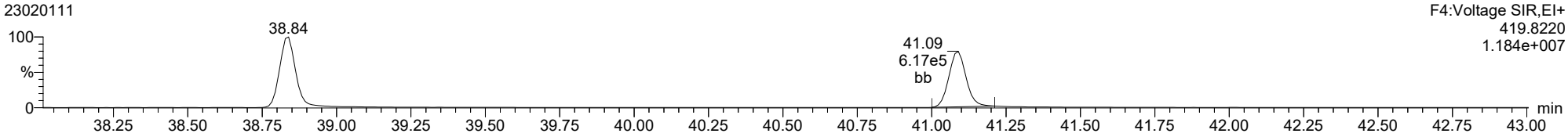

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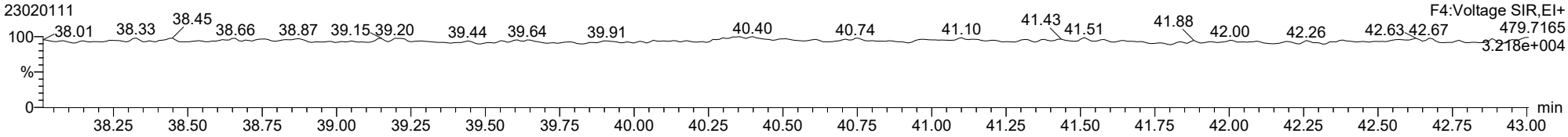

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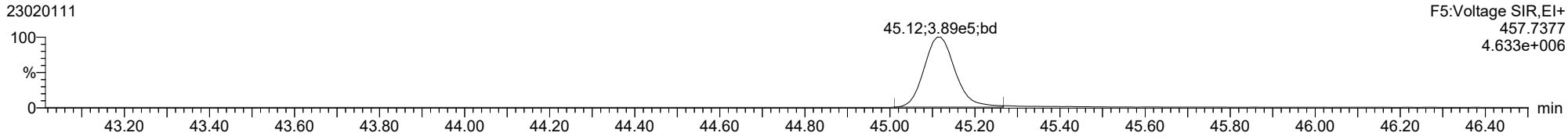

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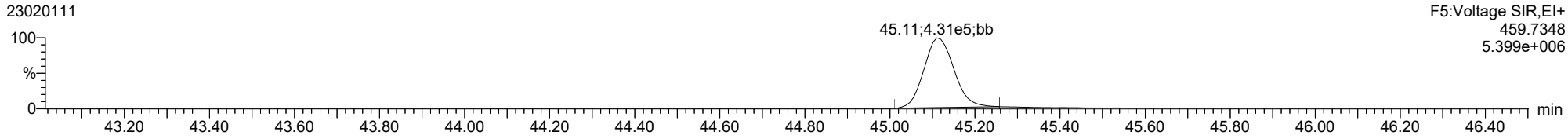
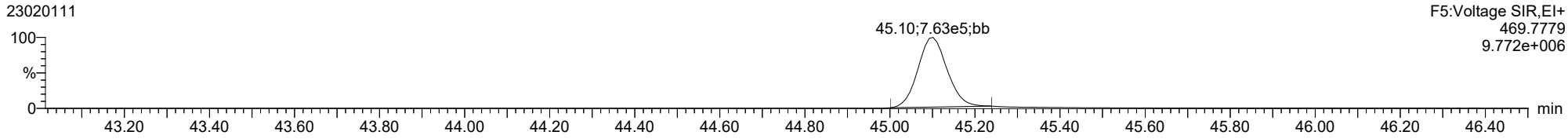


13C-OCDD



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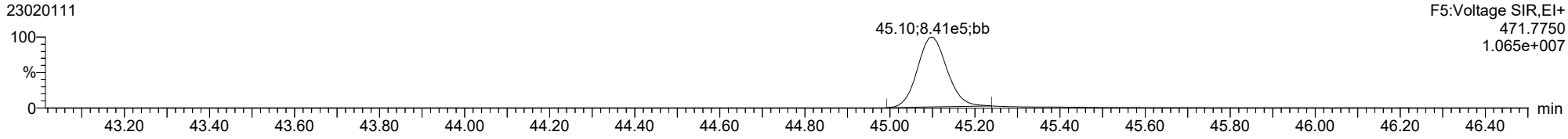
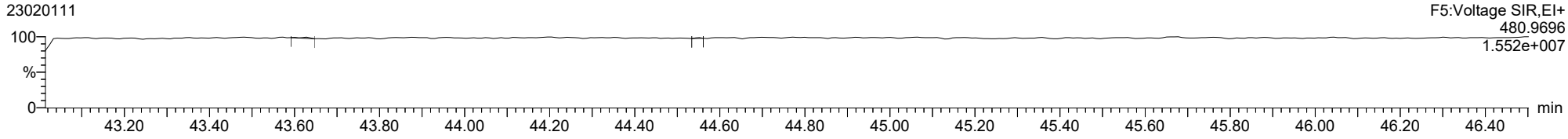


FUNCTION5 PFK



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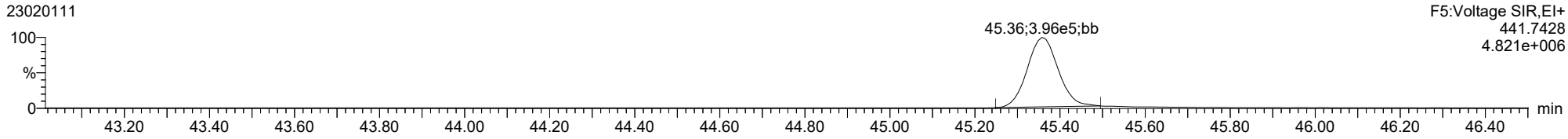
OCDF



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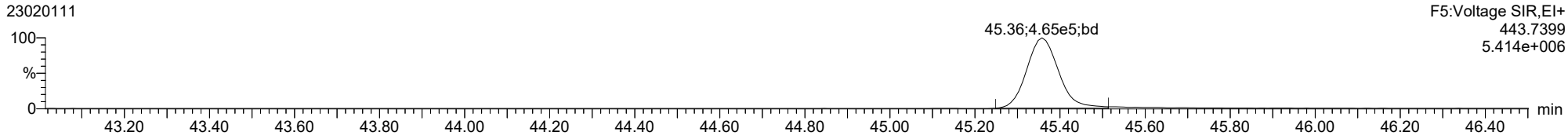
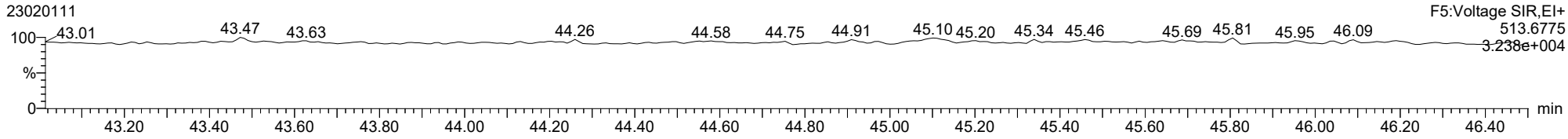


FUNCTION5 DCDPE



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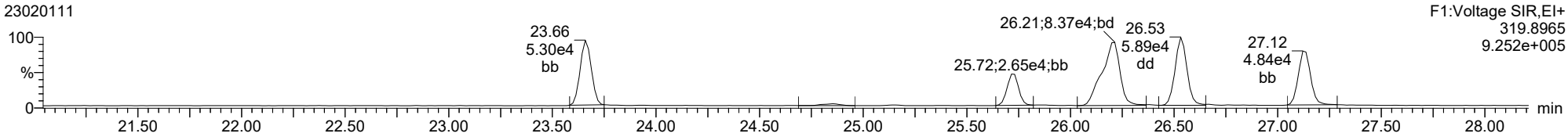
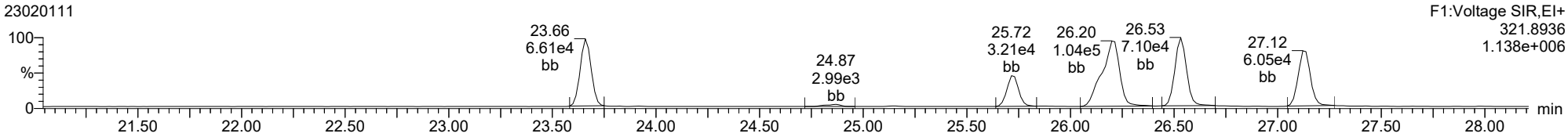
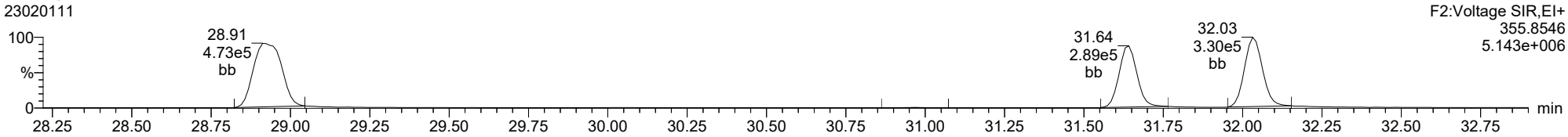
Total-tetradioxins



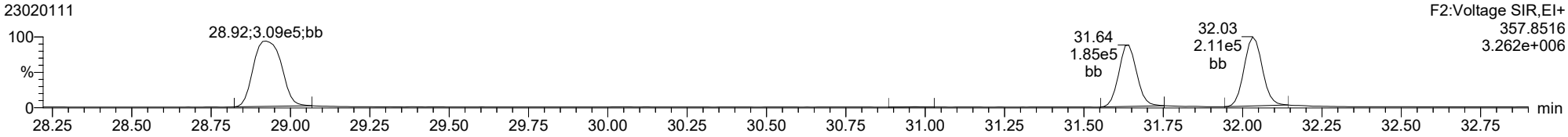
Total-tetradioxins



Total-pentadioxins

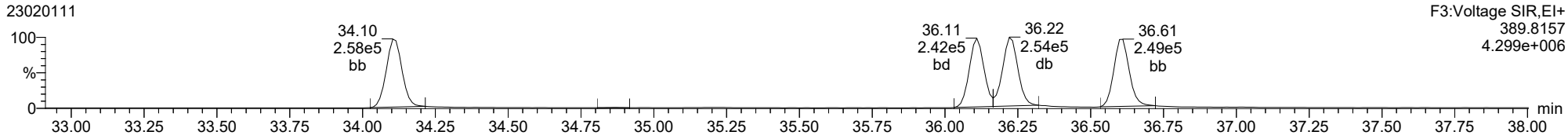


Total-pentadioxins

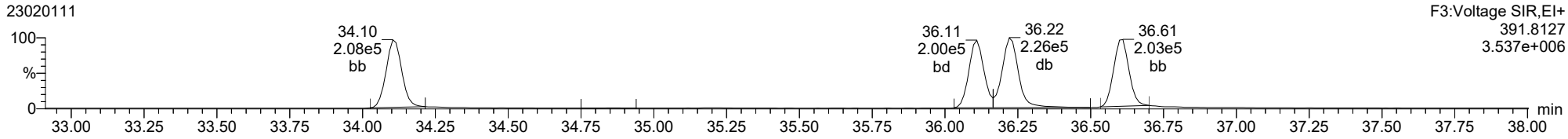


ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

Total-hexadioxins



Total-hexadioxins



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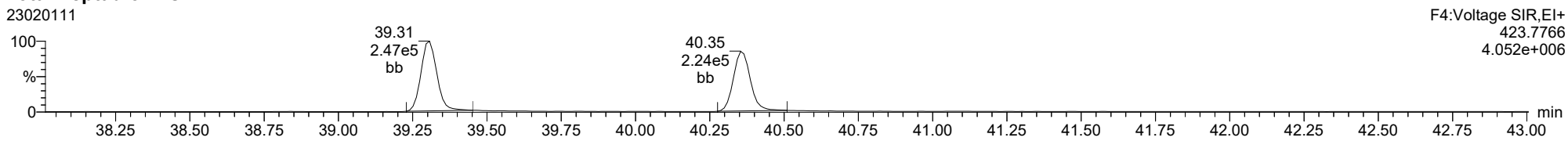
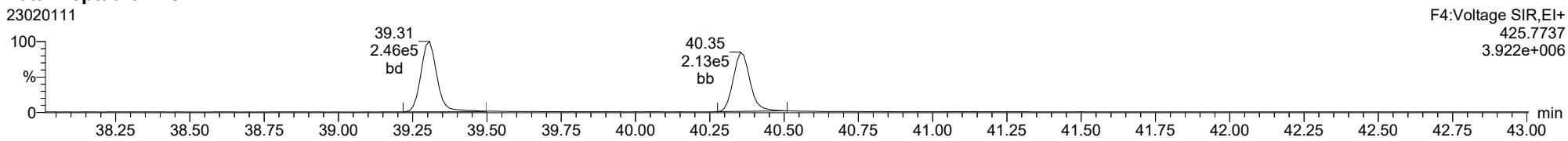


Total-heptadioxins



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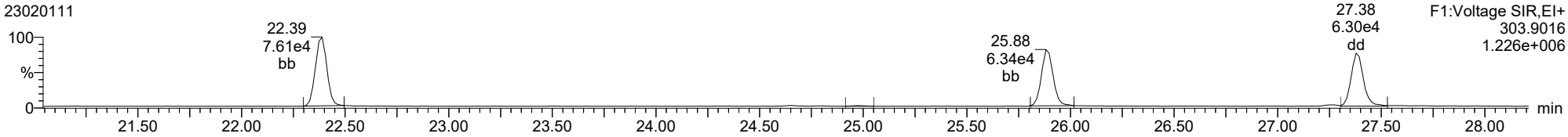
Total-tetrafurans



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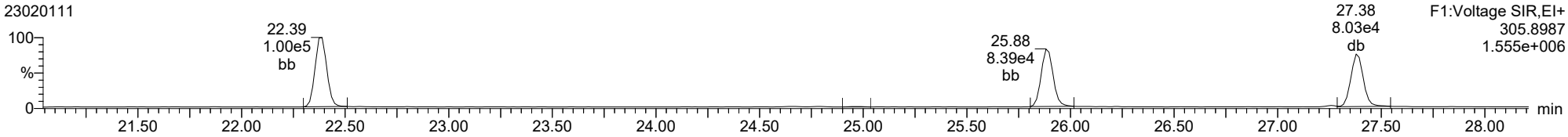

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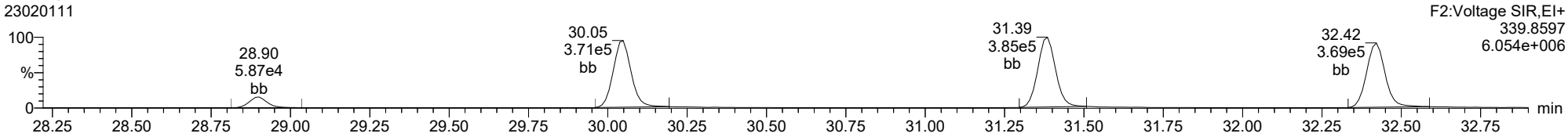

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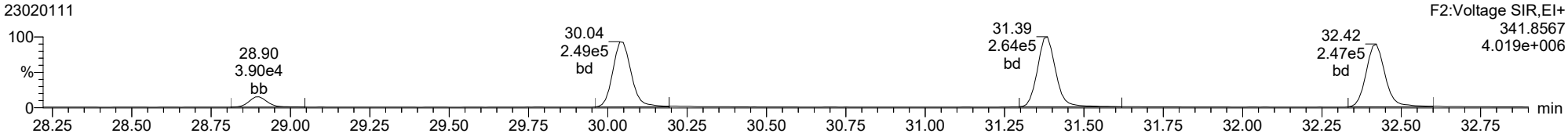

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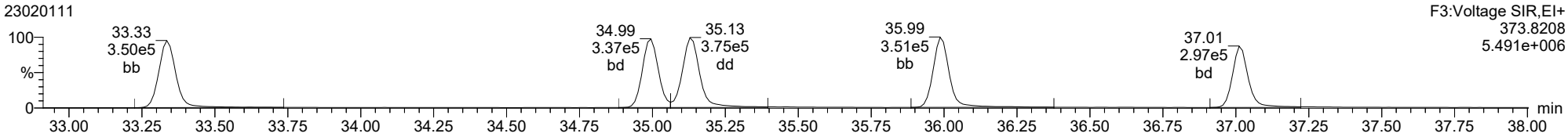
Total-hexafurans



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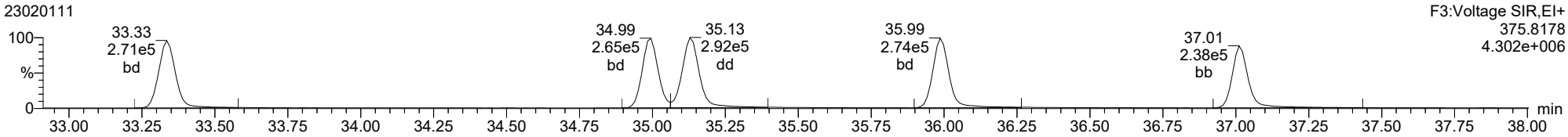

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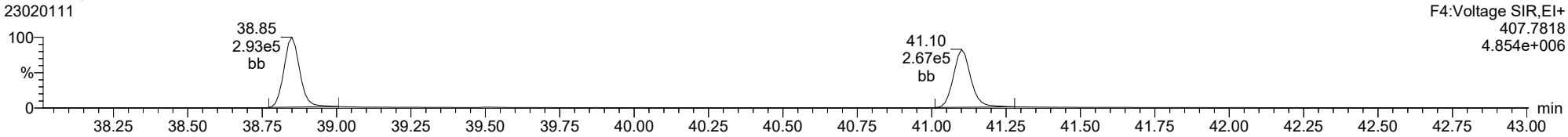

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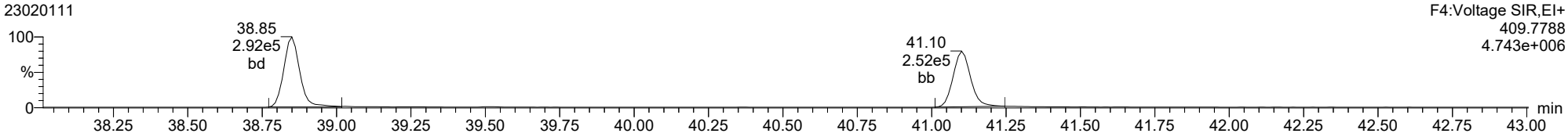

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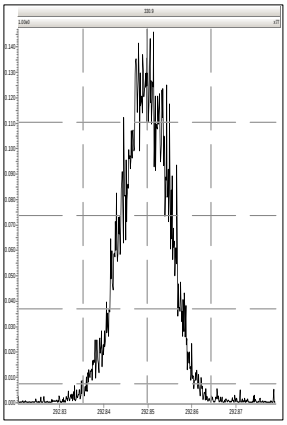

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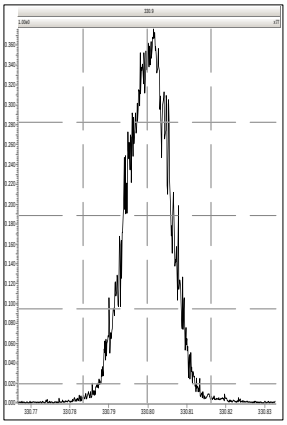

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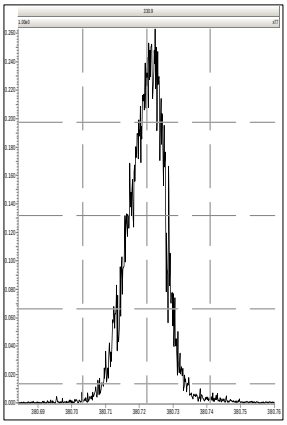

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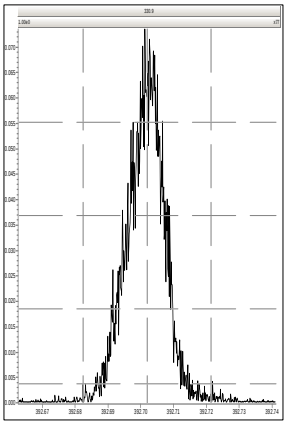

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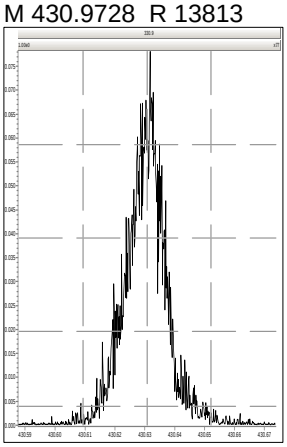

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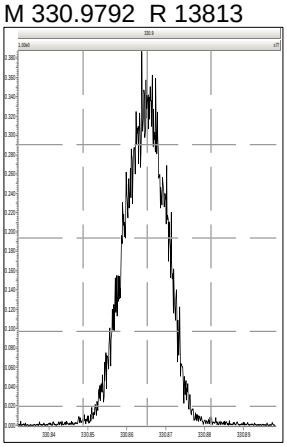

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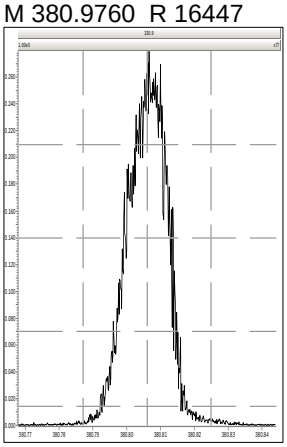
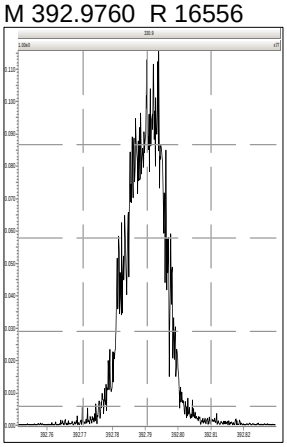
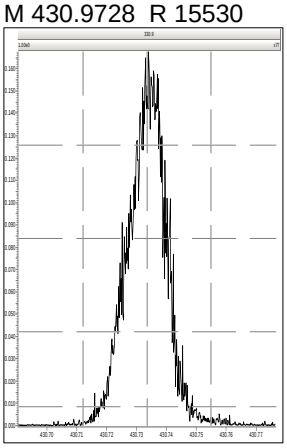


M 392.9760 R 16556



M 430.9728 R 15530



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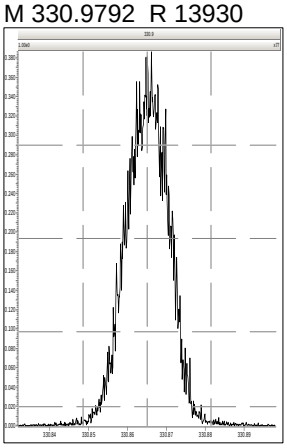

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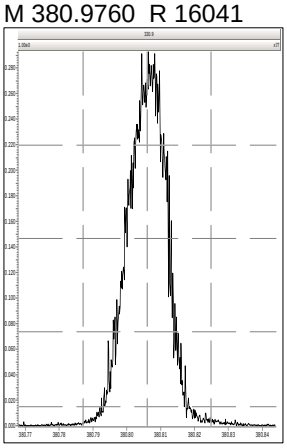

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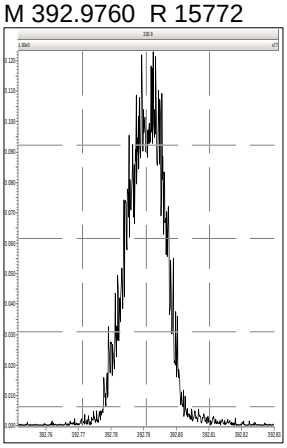

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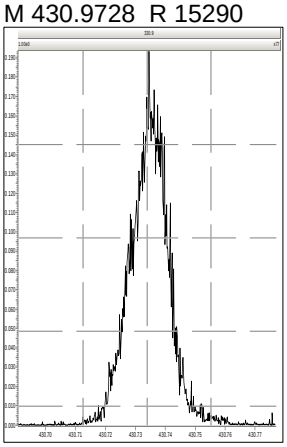

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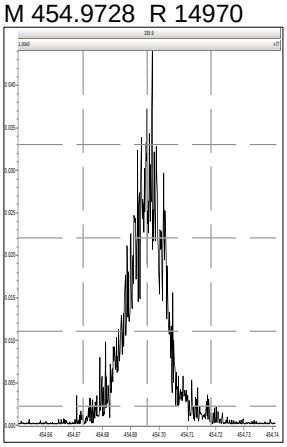

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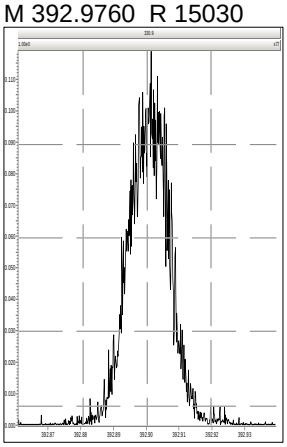

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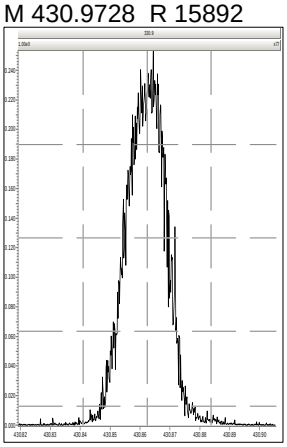

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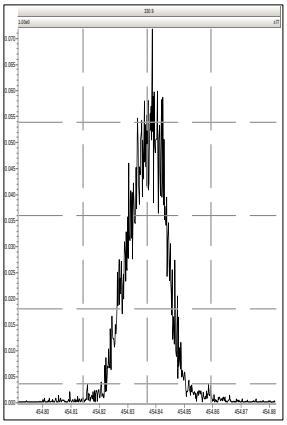

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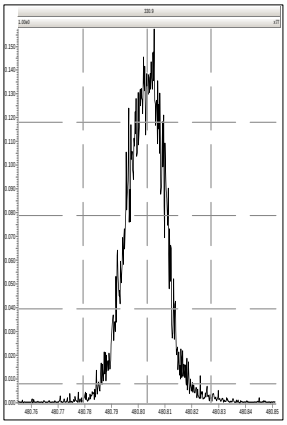

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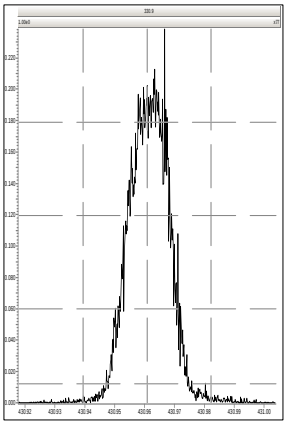
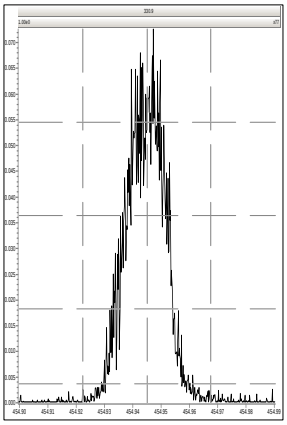


M 454.9728 R 16464



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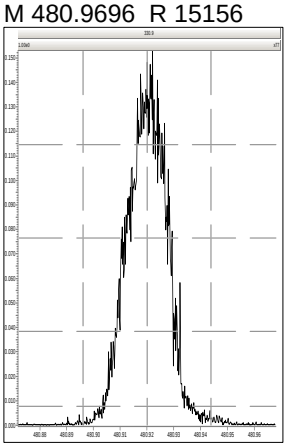
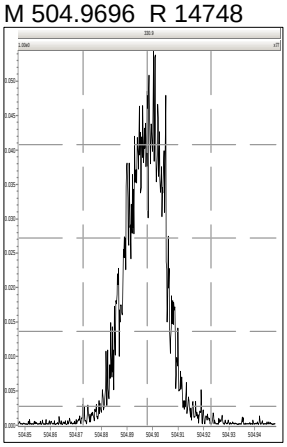
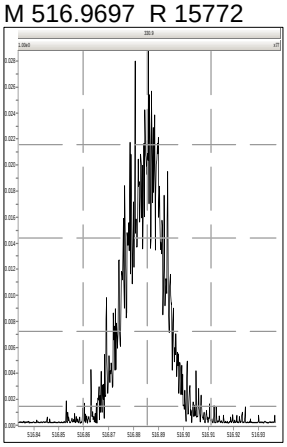
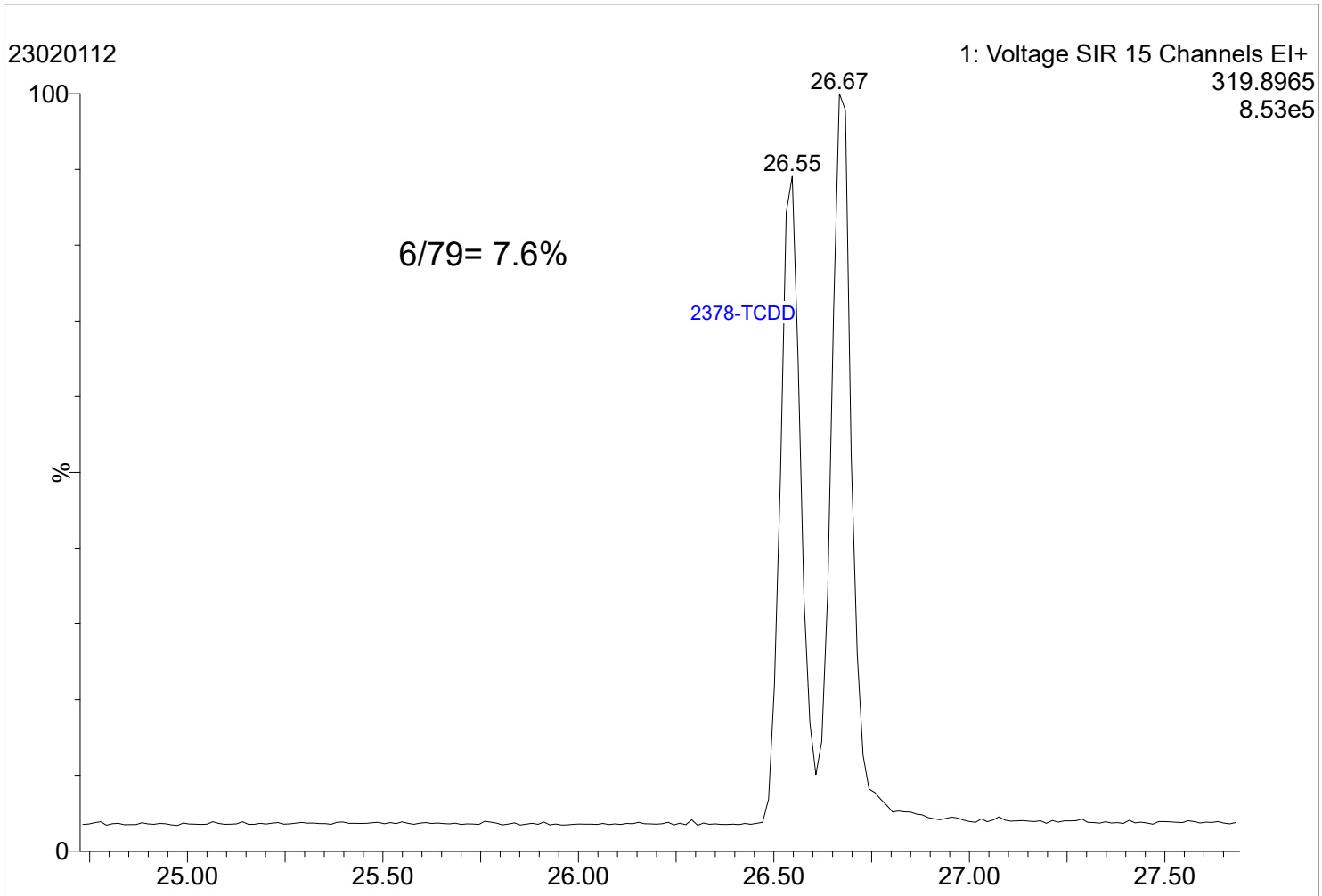


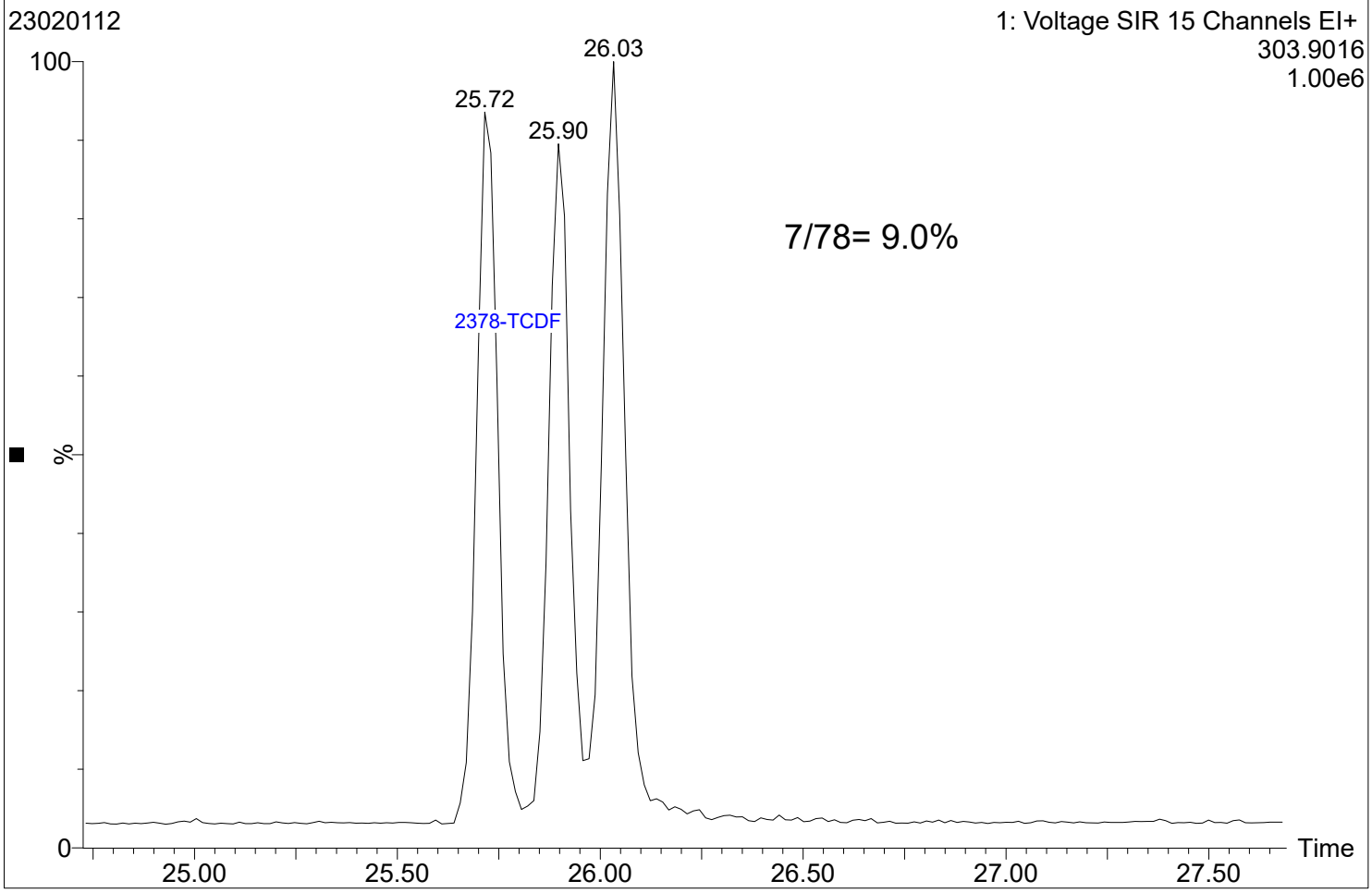
M 504.9696 R 14748



M 516.9697 R 15772




23020112
1: Voltage SIR 15 Channels EI+
319.8965
8.53e5
26.67
26.55
6/79= 7.6%
2378-TCDD
100
%
0
25.00
25.50
26.00
26.50
27.00
27.50


23020112
1: Voltage SIR 15 Channels EI+
303.9016
1.00e6
26.03
25.72
25.90
7/78= 9.0%
2378-TCDF
100
%
0
Time
25.00
25.50
26.00
26.50
27.00
27.50

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00010
Laboratory ID: SLB0026-SCV1
Sequence: SLB0026
Sequence Name: ICVCR
Standard ID: H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,3,7,8-TCDF	10.000	9.80	-2.0	
2,3,7,8-TCDD	10.000	10.1	1.0	
1,2,3,7,8-PeCDF	50.000	49.4	-1.1	
2,3,4,7,8-PeCDF	50.000	50.7	1.4	
1,2,3,7,8-PeCDD	50.000	48.9	-2.2	
1,2,3,4,7,8-HxCDF	50.000	50.8	1.7	
1,2,3,6,7,8-HxCDF	50.000	51.1	2.1	
2,3,4,6,7,8-HxCDF	50.000	51.5	3.1	
1,2,3,7,8,9-HxCDF	50.000	49.9	-0.2	
1,2,3,4,7,8-HxCDD	50.000	51.0	2.0	
1,2,3,6,7,8-HxCDD	50.000	48.3	-3.4	
1,2,3,7,8,9-HxCDD	50.000	49.6	-0.8	
1,2,3,4,6,7,8-HpCDF	50.000	49.0	-2.0	
1,2,3,4,7,8,9-HpCDF	50.000	51.5	2.9	
1,2,3,4,6,7,8-HpCDD	50.000	48.8	-2.3	
OCDF	100.00	93.0	-7.0	
OCDD	100.00	95.8	-4.2	
13C12-2,3,7,8-TCDF	100.00	101	0.8	
13C12-2,3,7,8-TCDD	100.00	97.3	-2.7	
13C12-1,2,3,7,8-PeCDF	100.00	97.9	-2.1	
13C12-2,3,4,7,8-PeCDF	100.00	96.0	-4.0	
13C12-1,2,3,7,8-PeCDD	100.00	95.6	-4.4	
13C12-1,2,3,4,7,8-HxCDF	100.00	99.0	-1.0	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.8	-1.2	
13C12-2,3,4,6,7,8-HxCDF	100.00	99.3	-0.7	
13C12-1,2,3,7,8,9-HxCDF	100.00	98.6	-1.4	
13C12-1,2,3,4,7,8-HxCDD	100.00	97.7	-2.3	
13C12-1,2,3,6,7,8-HxCDD	100.00	101	0.6	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	100	0.3	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	101	0.8	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	101	0.6	
13C12-OCDD	200.00	205	2.6	
37Cl4-2,3,7,8-TCDD	10.000	8.94	-10.6	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1613B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Calibration: GB00010
Sequence: SLB0026

SDG: 22L0459
Project: AOC5 MR Phase 1
Laboratory ID: SLB0026-SCV1
Sequence Name: ICVCR
Standard ID: H008219

* Indicates values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00010
Laboratory ID: SLB0026-SCV1
Sequence: SLB0026
Standard ID: H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
OCDF	100.00	93.0	-7.0	
OCDD	100.00	95.8	-4.2	
13C12-2,3,7,8-TCDF	100.00	101	0.8	
13C12-2,3,7,8-TCDD	100.00	97.3	-2.7	
13C12-1,2,3,7,8-PeCDF	100.00	97.9	-2.1	
13C12-2,3,4,7,8-PeCDF	100.00	96.0	-4.0	
13C12-1,2,3,7,8-PeCDD	100.00	95.6	-4.4	
13C12-1,2,3,4,7,8-HxCDF	100.00	99.0	-1.0	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.8	-1.2	
13C12-2,3,4,6,7,8-HxCDF	100.00	99.3	-0.7	
13C12-1,2,3,7,8,9-HxCDF	100.00	98.6	-1.4	
13C12-1,2,3,4,7,8-HxCDD	100.00	97.7	-2.3	
13C12-1,2,3,6,7,8-HxCDD	100.00	101	0.6	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	100	0.3	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	101	0.8	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	101	0.6	
13C12-OCDD	200.00	205	2.6	
37Cl4-2,3,7,8-TCDD	10.000	8.94	-10.6	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GB00010
Lab File ID:	23020102	Calibration Date:	02/01/2023
Sequence:	SLB0026	Injection Date:	02/01/23
Lab Sample ID:	SLB0026-ICV1	Injection Time:	10:37
Sequence Name:	CS3R1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
2,3,7,8-TCDF	A	10.000	9.00	0.8760604	0.7881394		-10.0	+/-16	
2,3,7,8-TCDD	A	10.000	8.00	1.2363600	0.9890074		-20.0	+/-22	
1,2,3,7,8-PeCDF	A	50.000	45.5	0.8446540	0.7681961		-9.1	+/-18	
2,3,4,7,8-PeCDF	A	50.000	46.0	0.9111780	0.8383961		-8.0	+/-18	
1,2,3,7,8-PeCDD	A	50.000	49.7	1.0866850	1.0810230		-0.5	+/-22	
1,2,3,4,7,8-HxCDF	A	50.000	43.8	1.1816860	1.0352320		-12.4	+/-10	*
1,2,3,6,7,8-HxCDF	A	50.000	44.7	1.2480480	1.1146430		-10.7	+/-12	
2,3,4,6,7,8-HxCDF	A	50.000	45.6	1.2288500	1.1200940		-8.9	+/-12	
1,2,3,7,8,9-HxCDF	A	50.000	44.5	1.1865370	1.0560050		-11.0	+/-10	*
1,2,3,4,7,8-HxCDD	A	50.000	44.8	0.9869672	0.8835021		-10.5	+/-22	
1,2,3,6,7,8-HxCDD	A	50.000	43.8	1.0207220	0.8949701		-12.3	+/-22	
1,2,3,7,8,9-HxCDD	A	50.000	44.1	0.9854780	0.8698650		-11.7	+/-18	
1,2,3,4,6,7,8-HpCDF	A	50.000	45.1	1.2041190	1.0859080		-9.8	+/-10	
1,2,3,4,7,8,9-HpCDF	A	50.000	47.7	1.1653050	1.1124610		-4.5	+/-14	
1,2,3,4,6,7,8-HpCDD	A	50.000	44.2	1.2525690	1.1066520		-11.6	+/-14	
OCDF	A	100.00	86.3	1.1862640	1.0243110		-13.7	+/-37	
OCDD	A	100.00	90.9	1.1026670	1.0028370		-9.1	+/-21	
13C12-2,3,7,8-TCDF	A	100.00	81.8	1.7680590	1.4469997		-18.2	+/-29	
13C12-2,3,7,8-TCDD	A	100.00	103	1.1029470	1.1388769		3.3	+/-18	
13C12-1,2,3,7,8-PeCDF	A	100.00	97.0	1.5271250	1.4807739		-3.0	+/-24	
13C12-2,3,4,7,8-PeCDF	A	100.00	96.3	1.4662840	1.4126920		-3.7	+/-23	
13C12-1,2,3,7,8-PeCDD	A	100.00	97.3	0.9141518	0.8893426		-2.7	+/-38	
13C12-1,2,3,4,7,8-HxCDF	A	100.00	88.7	1.0536610	0.9345708		-11.3	+/-24	
13C12-1,2,3,6,7,8-HxCDF	A	100.00	89.6	1.0799530	0.9680754		-10.4	+/-30	
13C12-2,3,4,6,7,8-HxCDF	A	100.00	88.7	1.0143260	0.8993069		-11.3	+/-27	
13C12-1,2,3,7,8,9-HxCDF	A	100.00	87.8	0.9279333	0.8145455		-12.2	+/-26	
13C12-1,2,3,4,7,8-HxCDD	A	100.00	99.3	0.9329336	0.9264810		-0.7	+/-15	
13C12-1,2,3,6,7,8-HxCDD	A	100.00	102	0.9646272	0.9846310		2.1	+/-15	
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	80.6	1.0360890	0.8353360		-19.4	+/-22	
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	78.2	0.9049372	0.7072834		-21.8	+/-23	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GB00010
Lab File ID:	23020102	Calibration Date:	02/01/2023
Sequence:	SLB0026	Injection Date:	02/01/23
Lab Sample ID:	SLB0026-ICV1	Injection Time:	10:37
Sequence Name:	CS3R1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	84.9	0.7819773	0.6642647		-15.1	+/-28
13C12-OCDD	A	200.00	176	0.7882343	0.6917393		-12.2	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.58	1.2334500	1.0578858		-14.2	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GB00010
Lab File ID:	23020702	Calibration Date:	02/01/2023
Sequence:	SLB0072	Injection Date:	02/07/23
Lab Sample ID:	SLB0072-ICV1	Injection Time:	09:25
Sequence Name:	CS3T1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	9.53	0.8760604	0.8351157		-4.7	+/-16
2,3,7,8-TCDD	A	10.000	9.18	1.2363600	1.1355510		-8.2	+/-22
1,2,3,7,8-PeCDF	A	50.000	48.2	0.8446540	0.8146095		-3.6	+/-18
2,3,4,7,8-PeCDF	A	50.000	49.0	0.9111780	0.8931050		-2.0	+/-18
1,2,3,7,8-PeCDD	A	50.000	49.9	1.0866850	1.0837000		-0.3	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	46.3	1.1816860	1.0940110		-7.4	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	44.3	1.2480480	1.1059160		-11.4	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	46.1	1.2288500	1.1319670		-7.9	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	46.0	1.1865370	1.0911970		-8.0	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	48.7	0.9869672	0.9622623		-2.5	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	45.6	1.0207220	0.9313442		-8.8	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	49.2	0.9854780	0.9696455		-1.6	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	46.6	1.2041190	1.1231430		-6.7	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	47.9	1.1653050	1.1169660		-4.1	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	45.9	1.2525690	1.1507260		-8.1	+/-14
OCDF	A	100.00	85.8	1.1862640	1.0174050		-14.2	+/-37
OCDD	A	100.00	94.8	1.1026670	1.0450010		-5.2	+/-21
13C12-2,3,7,8-TCDF	A	100.00	88.9	1.7680590	1.5714363		-11.1	+/-29
13C12-2,3,7,8-TCDD	A	100.00	104	1.1029470	1.1480541		4.1	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	98.1	1.5271250	1.4984317		-1.9	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	97.9	1.4662840	1.4361152		-2.1	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	99.5	0.9141518	0.9092687		-0.5	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	91.1	1.0536610	0.9602116		-8.9	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	93.8	1.0799530	1.0127282		-6.2	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	93.2	1.0143260	0.9456075		-6.8	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	91.3	0.9279333	0.8476312		-8.7	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	101	0.9329336	0.9378135		0.5	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	99.9	0.9646272	0.9640301		-0.06	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	83.2	1.0360890	0.8618699		-16.8	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	84.7	0.9049372	0.7665857		-15.3	+/-23

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GB00010
Lab File ID:	23020702	Calibration Date:	02/01/2023
Sequence:	SLB0072	Injection Date:	02/07/23
Lab Sample ID:	SLB0072-ICV1	Injection Time:	09:25
Sequence Name:	CS3T1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	87.4	0.7819773	0.6837124		-12.6	+/-28
13C12-OCDD	A	200.00	163	0.7882343	0.6439082		-18.3	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.87	1.2334500	1.0937558		-11.3	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:28:13 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	2.728e4	3.737e4	0.876	0.730	0.770	1068	1145	4.08e5	5.54e5	382.4	484.0	NO	bb	bb	9.533
12378-PeCDF	30.048	1.001	1.810e5	1.197e5	0.845	1.513	1.550	1202	1806	2.77e6	1.84e6	2301.8	1017.7	NO	bb	bb	48.221
23478-PeCDF	31.385	1.001	1.901e5	1.258e5	0.911	1.511	1.550	1202	1806	2.96e6	1.95e6	2467.3	1077.2	NO	bb	bb	49.008
123478-HxCDF	34.995	1.001	1.715e5	1.385e5	1.182	1.238	1.240	1290	1031	2.75e6	2.18e6	2128.7	2115.1	NO	bd	bd	46.290
234678-HxCDF	35.987	1.000	1.754e5	1.404e5	1.229	1.249	1.240	1290	1031	2.75e6	2.24e6	2135.6	2172.0	NO	bb	bd	46.058
123678-HxCDF	35.129	1.000	1.836e5	1.468e5	1.248	1.251	1.240	1290	1031	2.74e6	2.19e6	2121.8	2121.2	NO	db	dd	44.306
123789-HxCDF	37.012	1.000	1.506e5	1.224e5	1.187	1.231	1.240	1290	1031	2.32e6	1.89e6	1798.5	1828.9	NO	bd	bd	45.982
1234678-HpCDF	38.850	1.000	1.452e5	1.405e5	1.204	1.033	1.050	1630	1318	2.43e6	2.31e6	1487.5	1753.4	NO	bd	bd	46.638
1234789-HpCDF	41.100	1.000	1.275e5	1.252e5	1.165	1.018	1.050	1630	1318	1.84e6	1.83e6	1130.9	1389.0	NO	bd	bb	47.926
OCDF	45.358	1.006	1.826e5	2.040e5	1.186	0.895	0.890	838	1256	2.08e6	2.38e6	2474.8	1893.5	NO	bd	bd	85.766
2378-TCDD	26.532	1.001	2.806e4	3.617e4	1.236	0.776	0.770	1281	782	4.29e5	5.43e5	335.2	695.2	NO	bd	bb	9.185
12378-PeCDD	31.631	1.000	1.467e5	9.606e4	1.087	1.527	1.550	1745	1329	2.33e6	1.49e6	1338.0	1122.6	NO	bb	bb	49.863
123478-HxCDD	36.098	1.000	1.462e5	1.201e5	0.987	1.218	1.240	1716	1243	2.39e6	1.98e6	1391.4	1589.0	NO	bd	bd	48.748
123678-HxCDD	36.221	1.001	1.452e5	1.197e5	1.021	1.213	1.240	1716	1243	2.48e6	2.07e6	1444.5	1662.2	NO	db	db	45.622
123789-HxCDD	36.599	1.011	1.493e5	1.228e5	0.985	1.215	1.240	1716	1243	2.46e6	2.03e6	1431.5	1636.5	NO	bb	bb	49.197
1234678-HpCDD	40.354	1.000	1.189e5	1.133e5	1.253	1.049	1.050	1534	1123	1.77e6	1.70e6	1154.5	1513.3	NO	bd	bd	45.935
OCDD	45.120	1.000	1.835e5	2.136e5	1.103	0.859	0.890	1337	2084	2.19e6	2.54e6	1636.7	1216.9	NO	bb	bd	94.770
13C-2378-TCDF	25.867	1.006	3.425e5	4.316e5	1.768	0.794	0.770	1771	1388	5.25e6	6.65e6	2964.7	4790.3	NO	bb	bb	88.879
13C-12378-PeCDF	30.026	1.168	4.470e5	2.912e5	1.527	1.535	1.550	1472	1474	6.96e6	4.56e6	4725.7	3092.7	NO	bb	bb	98.121
13C-23478-PeCDF	31.363	1.220	4.281e5	2.794e5	1.466	1.532	1.550	1472	1474	6.60e6	4.28e6	4480.8	2905.5	NO	bb	bb	97.942
13C-123478-HxCDF	34.973	0.956	1.915e5	3.752e5	1.054	0.511	0.510	1356	1868	3.06e6	6.08e6	2256.2	3256.0	NO	bd	bd	91.131
13C-123678-HxCDF	35.118	0.960	1.997e5	3.979e5	1.080	0.502	0.510	1356	1868	3.09e6	6.13e6	2275.0	3279.5	NO	db	db	93.775
13C-234678-HxCDF	35.976	0.983	1.887e5	3.693e5	1.014	0.511	0.510	1356	1868	3.19e6	6.22e6	2348.6	3328.5	NO	bb	bb	93.225
13C-123789-HxCDF	37.000	1.011	1.673e5	3.329e5	0.928	0.503	0.510	1356	1868	2.78e6	5.52e6	2047.1	2953.5	NO	bb	bb	91.346
13C-1234678-HpCDF	38.839	1.062	1.586e5	3.500e5	1.036	0.453	0.440	1212	1613	2.69e6	5.89e6	2216.9	3649.1	NO	bb	bb	83.185
13C-1234789-HpCDF	41.089	1.123	1.408e5	3.116e5	0.905	0.452	0.440	1212	1613	2.03e6	4.54e6	1676.7	2811.0	NO	bd	bd	84.711
13C-1234-TCDD	25.700	0.000	2.177e5	2.749e5	1.000	0.792	0.770	1617	1252	3.33e6	4.17e6	2061.3	3334.0	NO	bb	bb	100.000
13C-2378-TCDD	26.501	1.031	2.509e5	3.147e5	1.103	0.797	0.770	1617	1252	3.73e6	4.77e6	2309.4	3812.9	NO	bb	bb	104.090
13C-12378-PeCDD	31.619	1.230	2.768e5	1.711e5	0.914	1.617	1.550	783	888	4.10e6	2.49e6	5228.9	2804.4	NO	bb	bd	99.466
13C-123478-HxCDD	36.087	0.986	3.109e5	2.426e5	0.933	1.282	1.240	1343	1091	5.26e6	4.08e6	3913.8	3742.9	NO	bd	bd	100.523
13C-123678-HxCDD	36.198	0.989	3.178e5	2.511e5	0.965	1.266	1.240	1343	1091	5.13e6	4.09e6	3816.8	3751.7	NO	db	db	99.938
13C-1234678-HpCDD	40.343	1.103	2.082e5	1.953e5	0.782	1.066	1.050	1156	1108	3.12e6	2.91e6	2696.1	2629.5	NO	bb	bb	87.434
13C-OCDD	45.102	1.233	3.617e5	3.983e5	0.788	0.908	0.890	1711	1167	4.43e6	4.90e6	2587.8	4199.2	NO	bb	bb	163.380
13C-123789-HxCDD	36.588	0.000	3.296e5	2.606e5	1.000	1.265	1.240	1343	1091	5.47e6	4.32e6	4068.6	3963.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	5.388e4		1.233			1363		8.19e5		600.7			bb		8.867

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:28:13 Pacific Standard Time

ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.374	0.865	3.276e4	4.423e4	1.064	0.741	0.770	1068	1145	5.08e5	6.91e5	475.8	602.8	NO	bb	bb	9.342
1289-TCDF	27.394	1.059	2.645e4	3.605e4	0.858	0.734	0.770	1068	1145	3.94e5	5.15e5	369.4	449.3	NO	db	db	9.414
13468-PECDF	27.242	0.907	2.282e5	1.505e5	1.013	1.517	1.550	663	863	3.51e6	2.33e6	5294.6	2701.2	NO	bb	bb	50.650
12389-PECDF	32.421	1.080	1.791e5	1.206e5	0.844	1.485	1.550	1202	1806	2.69e6	1.76e6	2236.0	973.7	NO	bb	bb	48.123
123468-HXCDF	33.335	0.953	1.763e5	1.364e5	1.197	1.293	1.240	1290	1031	2.67e6	2.03e6	2069.3	1969.5	NO	bd	bb	46.081
1368-TCDD	23.659	0.893	2.586e4	3.236e4	1.084	0.799	0.770	1281	782	4.16e5	5.19e5	324.6	664.2	NO	bb	bb	9.493
1289-TCDD	27.136	1.024	2.274e4	2.935e4	0.975	0.775	0.770	1281	782	3.33e5	4.20e5	259.8	537.9	NO	bd	bd	9.446
12479-PECDD	28.912	0.914	2.484e5	1.586e5	1.837	1.566	1.550	1745	1329	2.37e6	1.50e6	1356.7	1131.0	NO	MM	MM	49.458
12389-PECDD	32.032	1.013	1.720e5	1.097e5	1.252	1.568	1.550	1745	1329	2.63e6	1.73e6	1506.1	1303.6	NO	bb	bb	50.218
124679-HXCDD	34.104	0.945	1.476e5	1.208e5	1.033	1.222	1.240	1716	1243	2.35e6	1.94e6	1366.8	1564.7	NO	bb	bb	46.946
1234679-HPCDD	39.307	0.974	1.304e5	1.250e5	1.286	1.043	1.050	1534	1123	2.06e6	1.96e6	1342.1	1745.0	NO	bd	bd	49.234
Total-tetrafurans			8.649e4		0.933			1068		1.31e6							28.288
Total-penta1			2.282e5					663		3.51e6							50.650
Total-pentafurans			5.791e5		0.866			1202		8.85e6							152.890
Total-hexafurans			8.574e5		1.208			1290		1.32e7							228.717
Total-heptafurans			2.734e5		1.185			1630		4.28e6							94.859
Total-Furans			2.207e6		1.067			1068		3.33e7							641.171
Total-tetradioxins			1.314e5		1.099			1281		1.82e6							47.858
Total-pentadioxins			5.671e5		1.392			1745		7.33e6							149.539
Total-hexadioxins			5.883e5		1.007			1716		9.67e6							190.513
Total-heptadioxins			2.498e5		1.269			1534		3.84e6							95.350
Total-Dioxins			1.720e6		1.165			1281		2.49e7							578.030
Total-TEQ			3.927e6					1281		5.81e7							1219.201
FUNCTION1 PFK			4.763e6					305793		3.63e7							
FUNCTION2 PFK			5.423e5					181475		1.33e7							0.000
FUNCTION3 PFK			3.583e5					206086		9.34e6							0.000
FUNCTION4 PFK			0.000e0					178080		0.00e0							
FUNCTION5 PFK			2.355e5					105143		5.11e6							
FUNCTION1 HXCD...			7.784e2					629		1.02e4							0.000
FUNCTION1 HPCD...			1.444e3					817		2.23e4							0.000
FUNCTION2 HPCD...			4.630e2					927		1.16e4							0.000
FUNCTION3 OCDPE			8.159e1					667		1.40e3							0.000
FUNCTION4 NCDPE			1.868e2					617		3.83e3							0.000
FUNCTION5 DCDPE			0.000e0					759		0.00e0							

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.39	2.645e4	3.605e4	0.858	0.73	0.77	369.4	YES	NO	db	db	9.414
2	2378-TCDF	25.88	2.728e4	3.737e4	0.876	0.73	0.77	382.4	YES	NO	bb	bb	9.533
3	1368-TCDF	22.37	3.276e4	4.423e4	1.064	0.74	0.77	475.8	YES	NO	bb	bb	9.342

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.24	2.282e5	1.505e5	1.013	1.52	1.55	5294.6	YES	NO	bb	bb	50.650

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.42	1.791e5	1.206e5	0.844	1.48	1.55	2236.0	YES	NO	bb	bb	48.123
2	23478-PeCDF	31.39	1.901e5	1.258e5	0.911	1.51	1.55	2467.3	YES	NO	bb	bb	49.008
3	12378-PeCDF	30.05	1.810e5	1.197e5	0.845	1.51	1.55	2301.8	YES	NO	bb	bb	48.221
4	Total-pentafurans	28.90	2.889e4	1.832e4	0.866	1.58	1.55	363.8	YES	NO	bb	bb	7.537

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.13	1.836e5	1.468e5	1.248	1.25	1.24	2121.8	YES	NO	db	dd	44.306
2	123478-HxCDF	35.00	1.715e5	1.385e5	1.182	1.24	1.24	2128.7	YES	NO	bd	bd	46.290
3	123468-HXCDF	33.33	1.763e5	1.364e5	1.197	1.29	1.24	2069.3	YES	NO	bd	bb	46.081
4	123789-HxCDF	37.01	1.506e5	1.224e5	1.187	1.23	1.24	1798.5	YES	NO	bd	bd	45.982
5	234678-HxCDF	35.99	1.754e5	1.404e5	1.229	1.25	1.24	2135.6	YES	NO	bb	bd	46.058

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	1.275e5	1.252e5	1.165	1.02	1.05	1130.9	YES	NO	bd	bb	47.926
2	Total-heptafurans	39.52	8.312e2	8.519e2	1.185	0.98	1.05	8.6	YES	NO	bb	bb	0.296
3	1234678-HpCDF	38.85	1.452e5	1.405e5	1.204	1.03	1.05	1487.5	YES	NO	bd	bd	46.638

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.39	2.645e4	3.605e4	0.858	0.73	0.77	369.4	YES	NO	db	db	9.414
2	2378-TCDF	25.88	2.728e4	3.737e4	0.876	0.73	0.77	382.4	YES	NO	bb	bb	9.533
3	1368-TCDF	22.37	3.276e4	4.423e4	1.064	0.74	0.77	475.8	YES	NO	bb	bb	9.342
4	12389-PECDF	32.42	1.791e5	1.206e5	0.844	1.48	1.55	2236.0	YES	NO	bb	bb	48.123
5	23478-PeCDF	31.39	1.901e5	1.258e5	0.911	1.51	1.55	2467.3	YES	NO	bb	bb	49.008
6	12378-PeCDF	30.05	1.810e5	1.197e5	0.845	1.51	1.55	2301.8	YES	NO	bb	bb	48.221
7	Total-pentafurans	28.90	2.889e4	1.832e4	0.866	1.58	1.55	363.8	YES	NO	bb	bb	7.537
8	123678-HxCDF	35.13	1.836e5	1.468e5	1.248	1.25	1.24	2121.8	YES	NO	db	dd	44.306
9	123478-HxCDF	35.00	1.715e5	1.385e5	1.182	1.24	1.24	2128.7	YES	NO	bd	bd	46.290
10	123468-HXCDF	33.33	1.763e5	1.364e5	1.197	1.29	1.24	2069.3	YES	NO	bd	bb	46.081
11	123789-HxCDF	37.01	1.506e5	1.224e5	1.187	1.23	1.24	1798.5	YES	NO	bd	bd	45.982
12	234678-HxCDF	35.99	1.754e5	1.404e5	1.229	1.25	1.24	2135.6	YES	NO	bb	bd	46.058
13	1234789-HpCDF	41.10	1.275e5	1.252e5	1.165	1.02	1.05	1130.9	YES	NO	bd	bb	47.926
14	Total-heptafurans	39.52	8.312e2	8.519e2	1.185	0.98	1.05	8.6	YES	NO	bb	bb	0.296
15	1234678-HpCDF	38.85	1.452e5	1.405e5	1.204	1.03	1.05	1487.5	YES	NO	bd	bd	46.638
16	OCDF	45.36	1.826e5	2.040e5	1.186	0.90	0.89	2474.8	YES	NO	bd	bd	85.766
17	13468-PECDF	27.24	2.282e5	1.505e5	1.013	1.52	1.55	5294.6	YES	NO	bb	bb	50.650

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	2.806e4	3.617e4	1.236	0.78	0.77	335.2	YES	NO	bd	bb	9.185
2	Total-tetradioxins	26.20	4.091e4	5.086e4	1.099	0.80	0.77	339.1	YES	NO	bb	bb	14.769
3	Total-tetradioxins	25.72	1.280e4	1.563e4	1.099	0.82	0.77	156.4	YES	NO	bb	bb	4.575
4	Total-tetradioxins	24.85	1.026e3	1.397e3	1.099	0.73	0.77	8.0	YES	NO	bb	bb	0.390
5	1368-TCDD	23.66	2.586e4	3.236e4	1.084	0.80	0.77	324.6	YES	NO	bb	bb	9.493
6	1289-TCDD	27.14	2.274e4	2.935e4	0.975	0.77	0.77	259.8	YES	NO	bd	bd	9.446

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.03	1.720e5	1.097e5	1.252	1.57	1.55	1506.1	YES	NO	bb	bb	50.218
2	12378-PeCDD	31.63	1.467e5	9.606e4	1.087	1.53	1.55	1338.0	YES	NO	bb	bb	49.863
3	12479-PECDD	28.91	2.484e5	1.586e5	1.837	1.57	1.55	1356.7	YES	NO	MM	MM	49.458

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	34.10	1.476e5	1.208e5	1.033	1.22	1.24	1366.8	YES	NO	bb	bb	46.946
2	123789-HxCDD	36.60	1.493e5	1.228e5	0.985	1.22	1.24	1431.5	YES	NO	bb	bb	49.197
3	123678-HxCDD	36.22	1.452e5	1.197e5	1.021	1.21	1.24	1444.5	YES	NO	db	db	45.622
4	123478-HxCDD	36.10	1.462e5	1.201e5	0.987	1.22	1.24	1391.4	YES	NO	bd	bd	48.748

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptadioxins	40.58	4.504e2	4.766e2	1.269	0.95	1.05	6.8	YES	NO	dd	dd	0.181
2	1234678-HpCDD	40.35	1.189e5	1.133e5	1.253	1.05	1.05	1154.5	YES	NO	bd	bd	45.935
3	1234679-HPCDD	39.31	1.304e5	1.250e5	1.286	1.04	1.05	1342.1	YES	NO	bd	bd	49.234

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	2.806e4	3.617e4	1.236	0.78	0.77	335.2	YES	NO	bd	bb	9.185
2	Total-tetradioxins	26.20	4.091e4	5.086e4	1.099	0.80	0.77	339.1	YES	NO	bb	bb	14.769
3	Total-tetradioxins	25.72	1.280e4	1.563e4	1.099	0.82	0.77	156.4	YES	NO	bb	bb	4.575
4	Total-tetradioxins	24.85	1.026e3	1.397e3	1.099	0.73	0.77	8.0	YES	NO	bb	bb	0.390
5	1368-TCDD	23.66	2.586e4	3.236e4	1.084	0.80	0.77	324.6	YES	NO	bb	bb	9.493
6	1289-TCDD	27.14	2.274e4	2.935e4	0.975	0.77	0.77	259.8	YES	NO	bd	bd	9.446
7	124679-HXCDD	34.10	1.476e5	1.208e5	1.033	1.22	1.24	1366.8	YES	NO	bb	bb	46.946
8	12389-PECDD	32.03	1.720e5	1.097e5	1.252	1.57	1.55	1506.1	YES	NO	bb	bb	50.218
9	12378-PeCDD	31.63	1.467e5	9.606e4	1.087	1.53	1.55	1338.0	YES	NO	bb	bb	49.863
10	123789-HxCDD	36.60	1.493e5	1.228e5	0.985	1.22	1.24	1431.5	YES	NO	bb	bb	49.197
11	123678-HxCDD	36.22	1.452e5	1.197e5	1.021	1.21	1.24	1444.5	YES	NO	db	db	45.622
12	123478-HxCDD	36.10	1.462e5	1.201e5	0.987	1.22	1.24	1391.4	YES	NO	bd	bd	48.748
13	Total-heptadioxins	40.58	4.504e2	4.766e2	1.269	0.95	1.05	6.8	YES	NO	dd	dd	0.181
14	1234678-HpCDD	40.35	1.189e5	1.133e5	1.253	1.05	1.05	1154.5	YES	NO	bd	bd	45.935
15	1234679-HPCDD	39.31	1.304e5	1.250e5	1.286	1.04	1.05	1342.1	YES	NO	bd	bd	49.234
16	OCDD	45.12	1.835e5	2.136e5	1.103	0.86	0.89	1636.7	YES	NO	bb	bd	94.770
17	12479-PECDD	28.91	2.484e5	1.586e5	1.837	1.57	1.55	1356.7	YES	NO	MM	MM	49.458

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.39	2.645e4	3.605e4	0.858	0.73	0.77	369.4	YES	NO	db	db	9.414
2	2378-TCDF	25.88	2.728e4	3.737e4	0.876	0.73	0.77	382.4	YES	NO	bb	bb	9.533
3	1368-TCDF	22.37	3.276e4	4.423e4	1.064	0.74	0.77	475.8	YES	NO	bb	bb	9.342
4	12389-PECDF	32.42	1.791e5	1.206e5	0.844	1.48	1.55	2236.0	YES	NO	bb	bb	48.123
5	23478-PeCDF	31.39	1.901e5	1.258e5	0.911	1.51	1.55	2467.3	YES	NO	bb	bb	49.008
6	12378-PeCDF	30.05	1.810e5	1.197e5	0.845	1.51	1.55	2301.8	YES	NO	bb	bb	48.221
7	Total-pentafurans	28.90	2.889e4	1.832e4	0.866	1.58	1.55	363.8	YES	NO	bb	bb	7.537
8	123678-HxCDF	35.13	1.836e5	1.468e5	1.248	1.25	1.24	2121.8	YES	NO	db	dd	44.306
9	123478-HxCDF	35.00	1.715e5	1.385e5	1.182	1.24	1.24	2128.7	YES	NO	bd	bd	46.290
10	123468-HXCDF	33.33	1.763e5	1.364e5	1.197	1.29	1.24	2069.3	YES	NO	bd	bb	46.081
11	123789-HxCDF	37.01	1.506e5	1.224e5	1.187	1.23	1.24	1798.5	YES	NO	bd	bd	45.982
12	234678-HxCDF	35.99	1.754e5	1.404e5	1.229	1.25	1.24	2135.6	YES	NO	bb	bd	46.058
13	1234789-HpCDF	41.10	1.275e5	1.252e5	1.165	1.02	1.05	1130.9	YES	NO	bd	bb	47.926
14	Total-heptafurans	39.52	8.312e2	8.519e2	1.185	0.98	1.05	8.6	YES	NO	bb	bb	0.296
15	1234678-HpCDF	38.85	1.452e5	1.405e5	1.204	1.03	1.05	1487.5	YES	NO	bd	bd	46.638
16	OCDF	45.36	1.826e5	2.040e5	1.186	0.90	0.89	2474.8	YES	NO	bd	bd	85.766
17	13468-PECDF	27.24	2.282e5	1.505e5	1.013	1.52	1.55	5294.6	YES	NO	bb	bb	50.650
18	2378-TCDD	26.53	2.806e4	3.617e4	1.236	0.78	0.77	335.2	YES	NO	bd	bb	9.185
19	Total-tetradioxins	26.20	4.091e4	5.086e4	1.099	0.80	0.77	339.1	YES	NO	bb	bb	14.769
20	Total-tetradioxins	25.72	1.280e4	1.563e4	1.099	0.82	0.77	156.4	YES	NO	bb	bb	4.575
21	Total-tetradioxins	24.85	1.026e3	1.397e3	1.099	0.73	0.77	8.0	YES	NO	bb	bb	0.390
22	1368-TCDD	23.66	2.586e4	3.236e4	1.084	0.80	0.77	324.6	YES	NO	bb	bb	9.493
23	1289-TCDD	27.14	2.274e4	2.935e4	0.975	0.77	0.77	259.8	YES	NO	bd	bd	9.446
24	124679-HXCDD	34.10	1.476e5	1.208e5	1.033	1.22	1.24	1366.8	YES	NO	bb	bb	46.946
25	12389-PECDD	32.03	1.720e5	1.097e5	1.252	1.57	1.55	1506.1	YES	NO	bb	bb	50.218
26	12378-PeCDD	31.63	1.467e5	9.606e4	1.087	1.53	1.55	1338.0	YES	NO	bb	bb	49.863
27	123789-HxCDD	36.60	1.493e5	1.228e5	0.985	1.22	1.24	1431.5	YES	NO	bb	bb	49.197
28	123678-HxCDD	36.22	1.452e5	1.197e5	1.021	1.21	1.24	1444.5	YES	NO	db	db	45.622
29	123478-HxCDD	36.10	1.462e5	1.201e5	0.987	1.22	1.24	1391.4	YES	NO	bd	bd	48.748
30	Total-heptadioxins	40.58	4.504e2	4.766e2	1.269	0.95	1.05	6.8	YES	NO	dd	dd	0.181
31	1234678-HpCDD	40.35	1.189e5	1.133e5	1.253	1.05	1.05	1154.5	YES	NO	bd	bd	45.935
32	1234679-HPCDD	39.31	1.304e5	1.250e5	1.286	1.04	1.05	1342.1	YES	NO	bd	bd	49.234
33	OCDD	45.12	1.835e5	2.136e5	1.103	0.86	0.89	1636.7	YES	NO	bb	bd	94.770
34	12479-PECDD	28.91	2.484e5	1.586e5	1.837	1.57	1.55	1356.7	YES	NO	MM	MM	49.458

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.14	9.329e3					0.9	NO		bb		
2	FUNCTION1 PFK	22.72	2.595e3					0.6	NO		bb		
3	FUNCTION1 PFK	22.65	1.359e4					1.3	NO		bb		
4	FUNCTION1 PFK	22.21	1.980e3					0.4	NO		bb		
5	FUNCTION1 PFK	21.44	1.834e6					20.0	YES		db		
6	FUNCTION1 PFK	21.32	1.241e6					24.1	YES		dd		
7	FUNCTION1 PFK	21.19	5.654e5					26.4	YES		dd		
8	FUNCTION1 PFK	21.13	8.677e5					28.2	YES		bd		
9	FUNCTION1 PFK	27.15	1.848e4					1.4	NO		bb		
10	FUNCTION1 PFK	26.86	2.297e3					0.5	NO		bb		
11	FUNCTION1 PFK	26.18	2.579e3					0.6	NO		bb		
12	FUNCTION1 PFK	25.85	2.009e4					1.5	NO		bb		
13	FUNCTION1 PFK	25.61	6.044e3					0.8	NO		bb		
14	FUNCTION1 PFK	25.49	1.801e4					0.8	NO		bb		
15	FUNCTION1 PFK	25.13	7.883e3					0.8	NO		bb		
16	FUNCTION1 PFK	24.96	9.320e3					0.9	NO		bb		
17	FUNCTION1 PFK	24.76	1.948e4					1.4	NO		bb		
18	FUNCTION1 PFK	24.26	1.145e4					1.1	NO		db		
19	FUNCTION1 PFK	24.20	3.887e4					1.8	NO		dd		
20	FUNCTION1 PFK	24.08	3.730e4					2.2	NO		bd		
21	FUNCTION1 PFK	23.81	9.090e3					1.1	NO		bb		
22	FUNCTION1 PFK	23.69	2.124e3					0.5	NO		bb		
23	FUNCTION1 PFK	23.22	2.464e4					1.6	NO		bb		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.83	4.460e3					0.9	NO		db		0.000
2	FUNCTION2 PFK	29.77	1.230e4					1.7	NO		dd		0.000
3	FUNCTION2 PFK	29.71	1.195e4					2.0	NO		dd		0.000
4	FUNCTION2 PFK	29.64	3.540e4					2.5	NO		dd		0.000
5	FUNCTION2 PFK	29.50	1.525e4					1.9	NO		bd		0.000
6	FUNCTION2 PFK	29.34	7.671e3					1.3	NO		bb		0.000
7	FUNCTION2 PFK	29.26	3.670e3					0.9	NO		bb		0.000
8	FUNCTION2 PFK	29.20	8.595e3					1.4	NO		bb		0.000
9	FUNCTION2 PFK	28.99	7.715e3					1.3	NO		db		0.000
10	FUNCTION2 PFK	28.97	4.644e3					1.2	NO		bd		0.000
11	FUNCTION2 PFK	28.67	1.156e4					2.2	NO		db		0.000
12	FUNCTION2 PFK	28.57	1.982e4					1.8	NO		bd		0.000
13	FUNCTION2 PFK	28.42	9.734e2					0.5	NO		bb		0.000
14	FUNCTION2 PFK	28.35	2.306e4					3.8	YES		db		0.000
15	FUNCTION2 PFK	28.30	3.314e4					4.5	YES		dd		0.000
16	FUNCTION2 PFK	28.25	4.283e4					7.2	YES		bd		0.000
17	FUNCTION2 PFK	31.94	2.853e4					3.2	YES		bd		0.000
18	FUNCTION2 PFK	31.66	2.280e3					0.8	NO		bb		0.000
19	FUNCTION2 PFK	31.62	8.729e3					1.6	NO		bb		0.000
20	FUNCTION2 PFK	31.55	1.136e4					2.0	NO		bb		0.000
21	FUNCTION2 PFK	31.45	1.471e4					2.3	NO		db		0.000
22	FUNCTION2 PFK	31.32	3.155e4					2.1	NO		bd		0.000
23	FUNCTION2 PFK	31.14	1.546e3					0.6	NO		db		0.000
24	FUNCTION2 PFK	31.10	2.015e4					2.2	NO		bd		0.000
25	FUNCTION2 PFK	30.81	6.776e2					0.3	NO		bb		0.000
26	FUNCTION2 PFK	30.75	6.368e3					1.3	NO		db		0.000
27	FUNCTION2 PFK	30.65	1.669e4					2.0	NO		bd		0.000
28	FUNCTION2 PFK	30.58	6.341e3					1.5	NO		bb		0.000
29	FUNCTION2 PFK	30.43	1.161e4					1.7	NO		db		0.000
30	FUNCTION2 PFK	30.36	1.267e4					1.9	NO		bd		0.000
31	FUNCTION2 PFK	30.06	9.922e2					0.5	NO		bb		0.000
32	FUNCTION2 PFK	29.98	1.161e4					1.3	NO		bb		0.000
33	FUNCTION2 PFK	32.71	8.598e2					0.4	NO		bb		0.000
34	FUNCTION2 PFK	32.62	1.844e3					0.6	NO		bb		0.000
35	FUNCTION2 PFK	32.31	8.609e3					1.6	NO		bb		0.000
36	FUNCTION2 PFK	32.22	9.372e3					2.3	NO		db		0.000
37	FUNCTION2 PFK	32.20	2.290e4					3.5	YES		dd		0.000

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	32.15	5.957e4					3.3	YES		dd		0.000
39	FUNCTION2 PFK	31.99	1.033e4					1.7	NO		dd		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.96	1.737e4					1.8	NO		db		0.000
2	FUNCTION3 PFK	33.86	9.488e3					1.1	NO		bd		0.000
3	FUNCTION3 PFK	33.47	1.048e4					1.4	NO		bb		0.000
4	FUNCTION3 PFK	33.22	2.023e4					1.8	NO		db		0.000
5	FUNCTION3 PFK	33.12	3.444e4					2.9	NO		bd		0.000
6	FUNCTION3 PFK	33.05	1.049e4					2.0	NO		db		0.000
7	FUNCTION3 PFK	33.01	2.003e4					3.2	YES		dd		0.000
8	FUNCTION3 PFK	32.99	4.737e3					1.4	NO		bd		0.000
9	FUNCTION3 PFK	36.50	2.431e3					0.6	NO		bb		0.000
10	FUNCTION3 PFK	36.42	6.775e3					1.1	NO		bb		0.000
11	FUNCTION3 PFK	36.11	8.685e2					0.4	NO		bb		0.000
12	FUNCTION3 PFK	35.93	4.757e3					0.9	NO		bb		0.000
13	FUNCTION3 PFK	35.79	1.924e4					1.5	NO		bb		0.000
14	FUNCTION3 PFK	35.40	1.951e4					2.0	NO		bb		0.000
15	FUNCTION3 PFK	35.26	1.864e4					1.8	NO		db		0.000
16	FUNCTION3 PFK	35.14	1.457e4					1.6	NO		bd		0.000
17	FUNCTION3 PFK	35.03	1.281e3					0.6	NO		bb		0.000
18	FUNCTION3 PFK	34.69	3.266e4					2.0	NO		bb		0.000
19	FUNCTION3 PFK	34.47	8.681e2					0.4	NO		bb		0.000
20	FUNCTION3 PFK	34.43	7.870e3					1.3	NO		bb		0.000
21	FUNCTION3 PFK	34.29	1.784e3					0.5	NO		bb		0.000
22	FUNCTION3 PFK	34.19	6.455e3					1.2	NO		bb		0.000
23	FUNCTION3 PFK	34.14	3.828e3					0.9	NO		bb		0.000
24	FUNCTION3 PFK	34.00	1.377e3					0.6	NO		bb		0.000
25	FUNCTION3 PFK	37.94	2.008e4					1.8	NO		bb		0.000
26	FUNCTION3 PFK	37.72	1.073e4					1.4	NO		db		0.000
27	FUNCTION3 PFK	37.67	1.759e4					2.2	NO		dd		0.000
28	FUNCTION3 PFK	37.62	9.816e3					1.7	NO		bd		0.000
29	FUNCTION3 PFK	37.56	1.020e4					1.4	NO		db		0.000
30	FUNCTION3 PFK	37.51	3.376e3					0.7	NO		bd		0.000
31	FUNCTION3 PFK	37.08	4.636e3					0.9	NO		bb		0.000
32	FUNCTION3 PFK	36.94	4.701e3					0.9	NO		bb		0.000
33	FUNCTION3 PFK	36.59	4.112e3					0.8	NO		bb		0.000
34	FUNCTION3 PFK	36.54	2.843e3					0.7	NO		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.40	7.519e3					1.5	NO		bb		
2	FUNCTION5 PFK	43.32	1.005e3					0.6	NO		bb		
3	FUNCTION5 PFK	43.15	4.699e4					5.3	YES		db		
4	FUNCTION5 PFK	43.08	7.471e4					10.3	YES		bd		
5	FUNCTION5 PFK	45.06	1.998e3					0.9	NO		bb		
6	FUNCTION5 PFK	44.99	1.722e3					0.9	NO		bb		
7	FUNCTION5 PFK	44.85	2.358e3					1.0	NO		db		
8	FUNCTION5 PFK	44.79	9.522e3					2.2	NO		dd		
9	FUNCTION5 PFK	44.75	8.975e3					2.7	NO		dd		
10	FUNCTION5 PFK	44.66	8.382e3					1.5	NO		bd		
11	FUNCTION5 PFK	44.59	9.490e3					2.0	NO		db		
12	FUNCTION5 PFK	44.53	5.862e3					2.3	NO		dd		
13	FUNCTION5 PFK	44.48	1.097e4					1.6	NO		bd		
14	FUNCTION5 PFK	44.40	3.511e3					1.2	NO		bb		
15	FUNCTION5 PFK	44.33	5.417e3					1.4	NO		bb		
16	FUNCTION5 PFK	44.02	1.652e3					0.8	NO		db		
17	FUNCTION5 PFK	43.96	4.773e3					1.4	NO		dd		
18	FUNCTION5 PFK	43.89	3.846e3					1.0	NO		bd		
19	FUNCTION5 PFK	43.62	4.955e2					0.5	NO		bb		
20	FUNCTION5 PFK	43.56	4.307e2					0.4	NO		bb		
21	FUNCTION5 PFK	46.44	1.787e3					0.9	NO		bb		
22	FUNCTION5 PFK	46.28	3.625e2					0.4	NO		bb		
23	FUNCTION5 PFK	46.14	3.034e3					0.6	NO		bb		
24	FUNCTION5 PFK	45.99	2.999e3					1.1	NO		db		
25	FUNCTION5 PFK	45.94	4.233e3					1.5	NO		bd		
26	FUNCTION5 PFK	45.60	1.270e3					0.7	NO		bb		
27	FUNCTION5 PFK	45.52	3.112e3					0.7	NO		bb		
28	FUNCTION5 PFK	45.46	3.459e3					1.7	NO		bb		
29	FUNCTION5 PFK	45.32	5.614e3					1.6	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.55	1.291e2					3.2	YES		bb		0.000
2	FUNCTION1 HXCD...	26.02	1.156e2					1.3	NO		bb		0.000
3	FUNCTION1 HXCD...	24.66	7.817e1					1.6	NO		bb		0.000
4	FUNCTION1 HXCD...	24.23	7.395e1					1.7	NO		bb		0.000
5	FUNCTION1 HXCD...	22.89	8.777e1					2.1	NO		bb		0.000
6	FUNCTION1 HXCD...	22.12	9.312e1					2.0	NO		bb		0.000
7	FUNCTION1 HXCD...	28.18	8.248e1					1.4	NO		bb		0.000
8	FUNCTION1 HXCD...	27.27	1.182e2					3.0	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.92	9.216e1					2.2	NO		db		0.000
2	FUNCTION1 HPCD...	27.82	1.617e2					1.4	NO		bd		0.000
3	FUNCTION1 HPCD...	27.39	8.356e1					1.1	NO		db		0.000
4	FUNCTION1 HPCD...	27.27	1.409e2					2.9	NO		bd		0.000
5	FUNCTION1 HPCD...	26.70	9.683e1					1.7	NO		bb		0.000
6	FUNCTION1 HPCD...	26.17	7.773e1					2.2	NO		db		0.000
7	FUNCTION1 HPCD...	26.05	1.054e2					2.2	NO		dd		0.000
8	FUNCTION1 HPCD...	25.88	1.216e2					2.3	NO		bd		0.000
9	FUNCTION1 HPCD...	23.98	7.990e1					2.0	NO		bb		0.000
10	FUNCTION1 HPCD...	22.19	1.259e2					1.9	NO		db		0.000
11	FUNCTION1 HPCD...	22.10	1.407e2					1.9	NO		bd		0.000
12	FUNCTION1 HPCD...	21.94	8.465e1					2.2	NO		db		0.000
13	FUNCTION1 HPCD...	21.87	1.331e2					3.2	YES		bd		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.23	1.018e2					3.1	YES		bb		0.000
2	FUNCTION2 HPCD...	31.02	9.769e1					2.9	NO		bb		0.000
3	FUNCTION2 HPCD...	28.69	8.773e1					2.0	NO		bb		0.000
4	FUNCTION2 HPCD...	28.50	1.006e2					2.1	NO		bb		0.000
5	FUNCTION2 HPCD...	28.43	7.510e1					2.4	NO		bb		0.000

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ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	33.32	8.159e1					2.1	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.94	7.078e1					3.3	YES		bb		0.000
2	FUNCTION4 NCDPE	40.42	1.160e2					2.9	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
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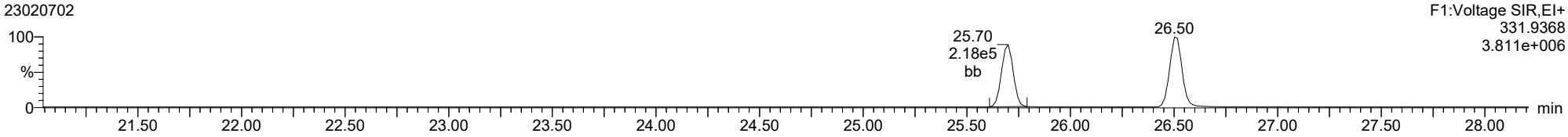
13C-1234-TCDD



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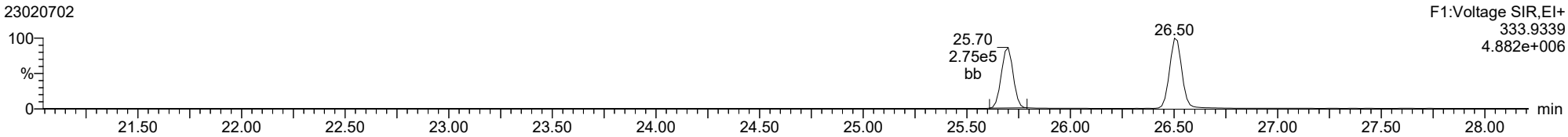
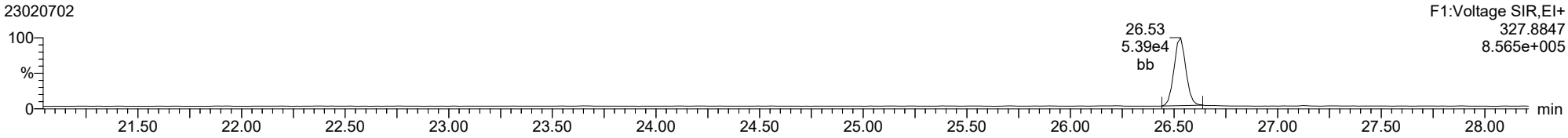


37CL-2378-TCDD



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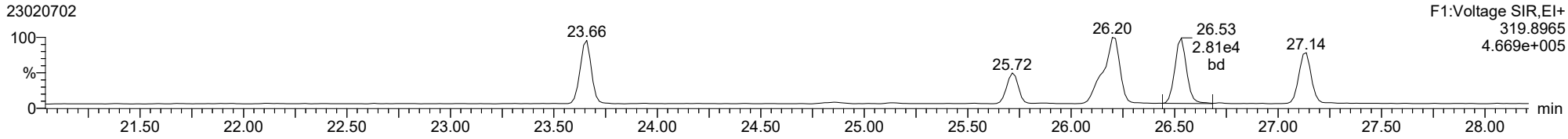
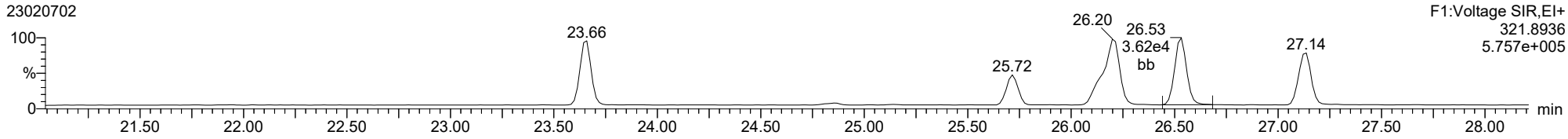
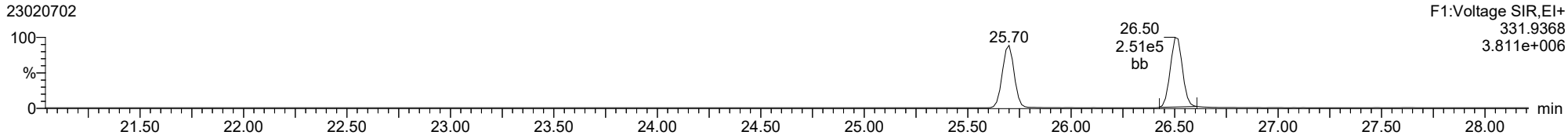
2378-TCDD



2378-TCDD



13C-2378-TCDD



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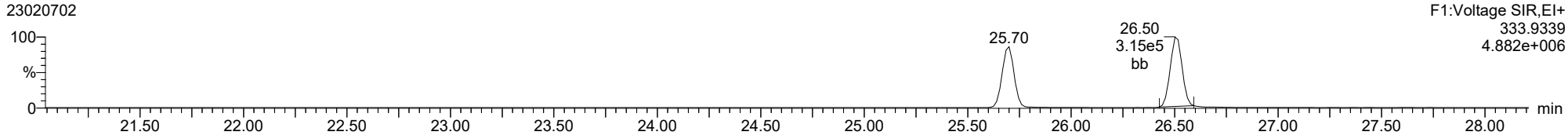

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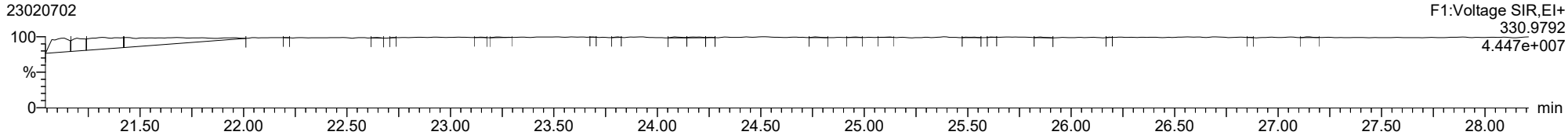

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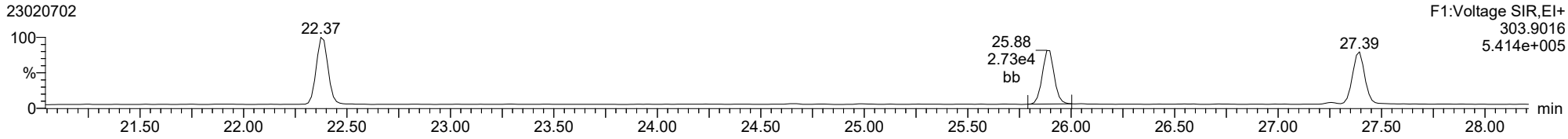
2378-TCDF



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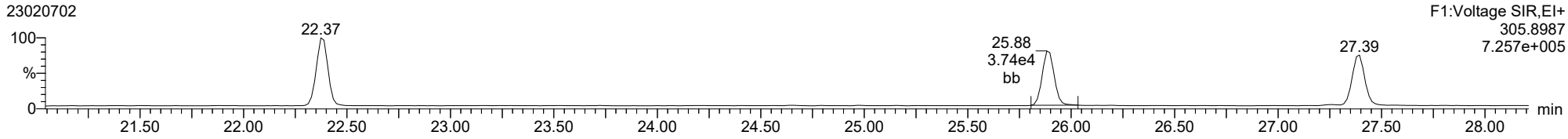

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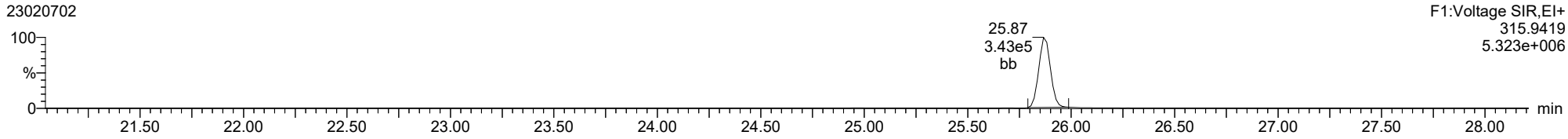

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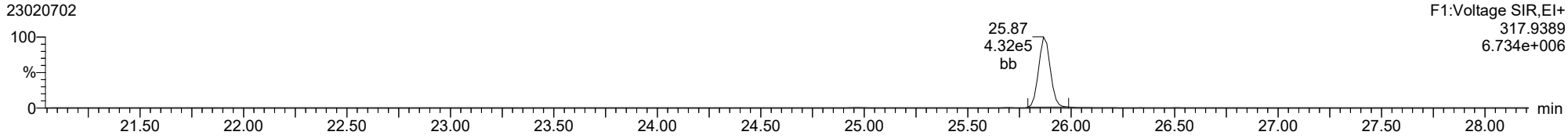

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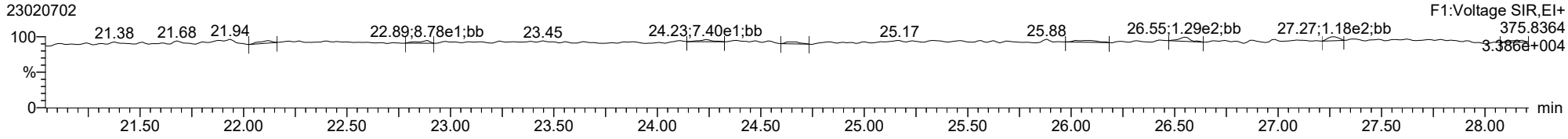

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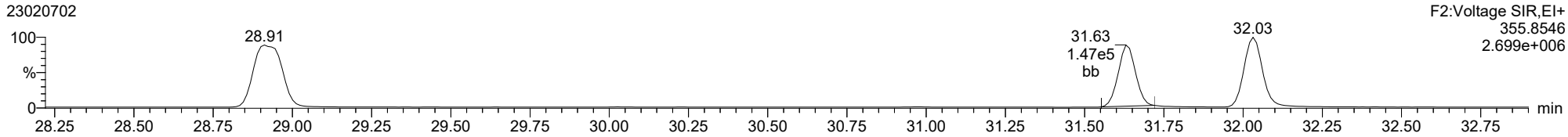
12378-PeCDD



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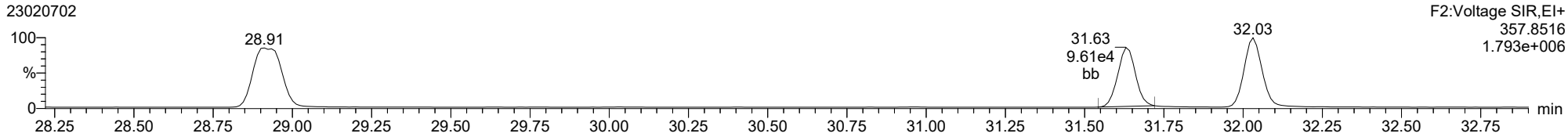

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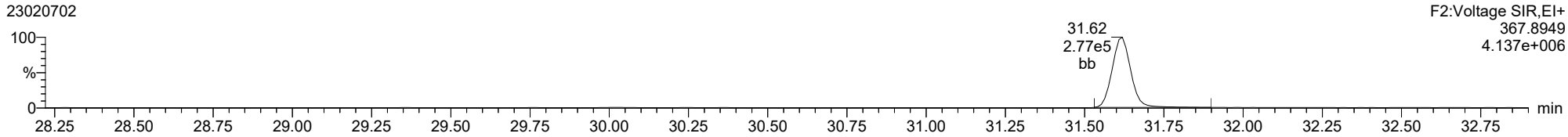

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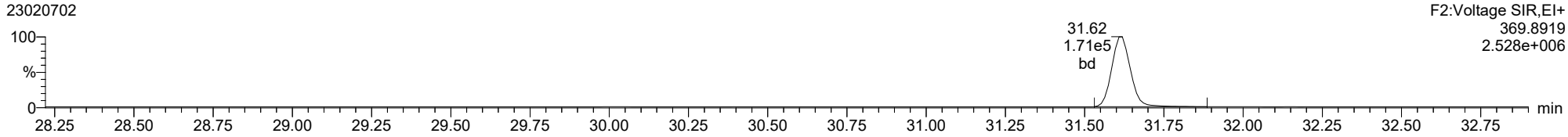

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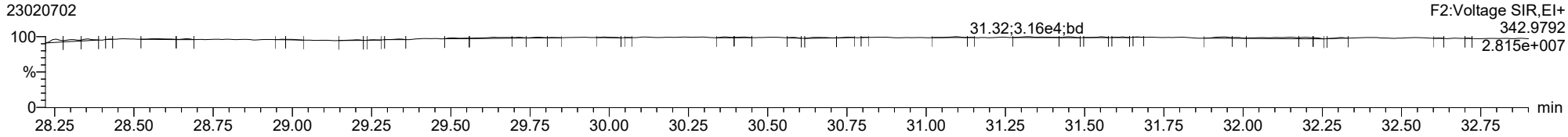

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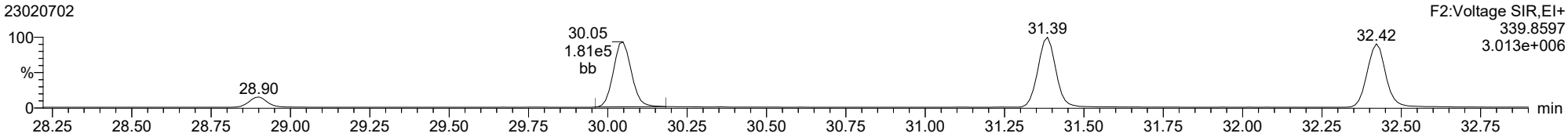

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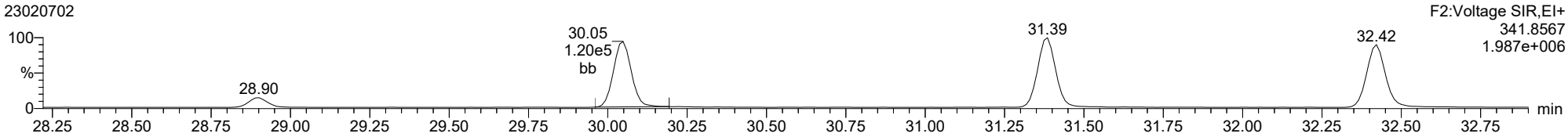

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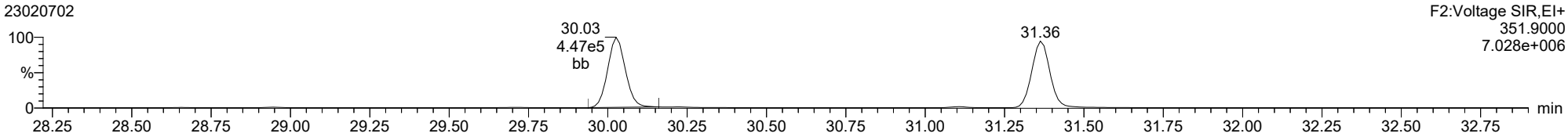

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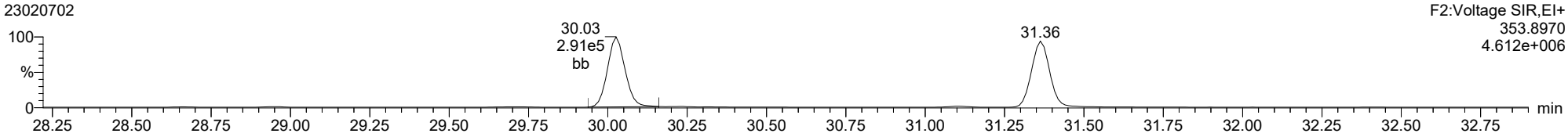

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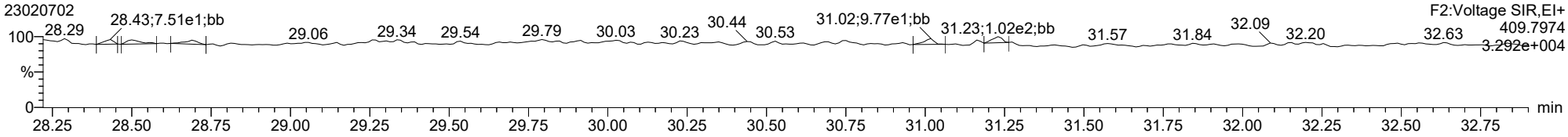

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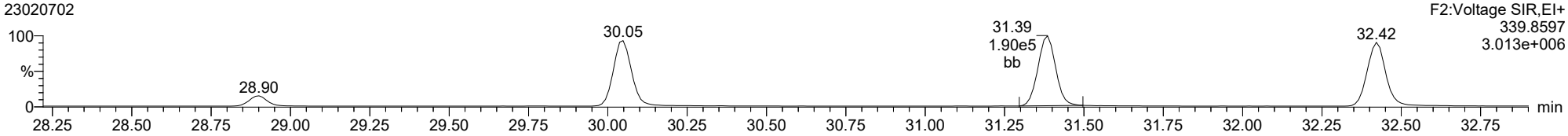
23478-PeCDF



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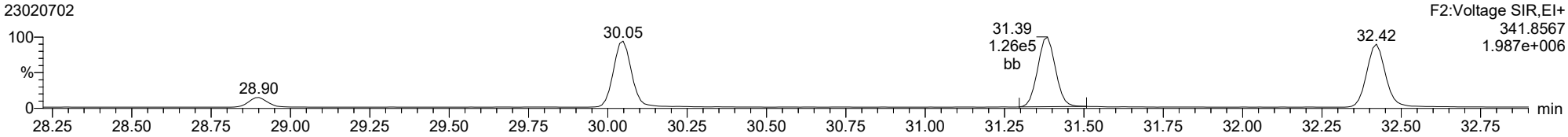

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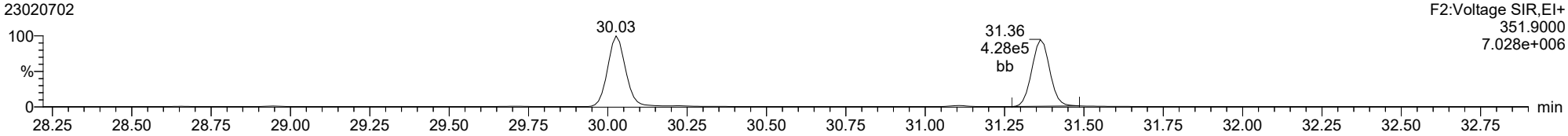

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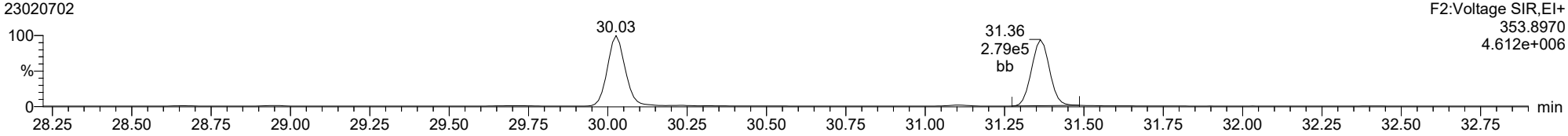

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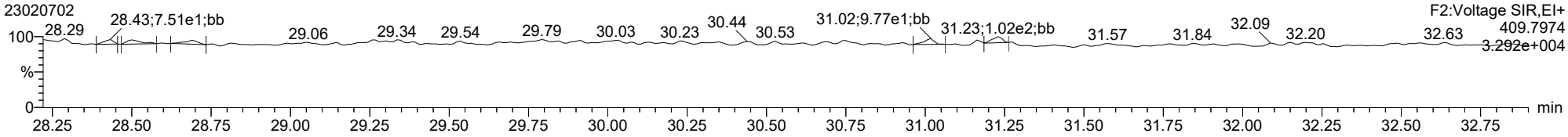

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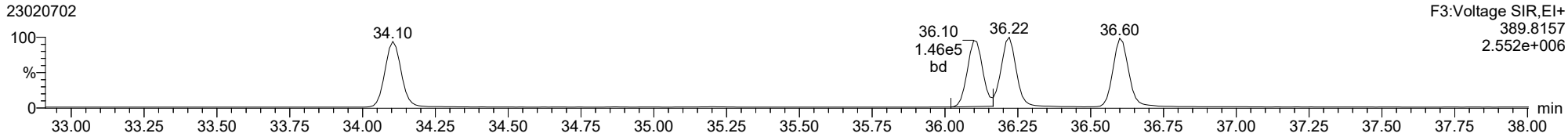

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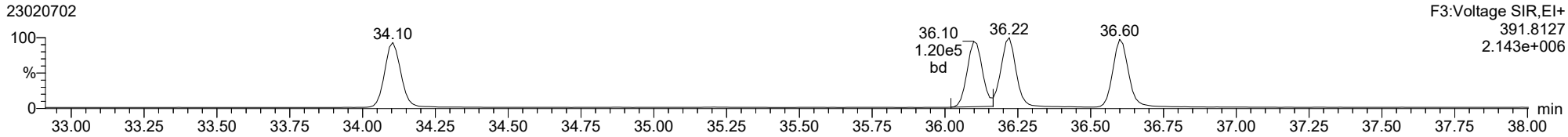

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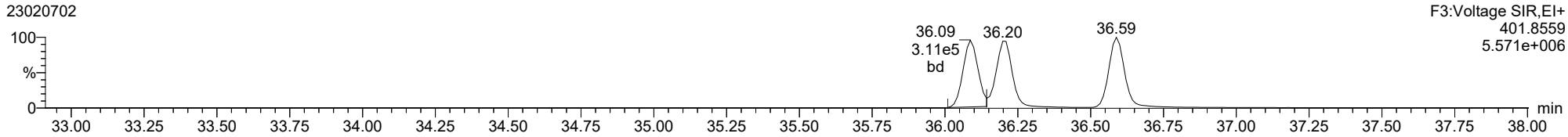

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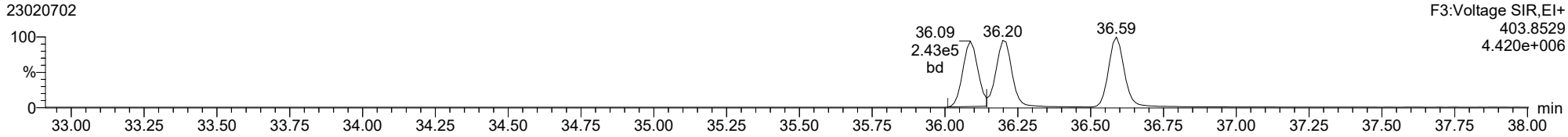

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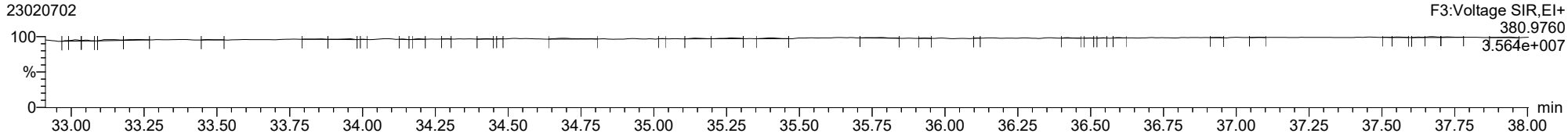

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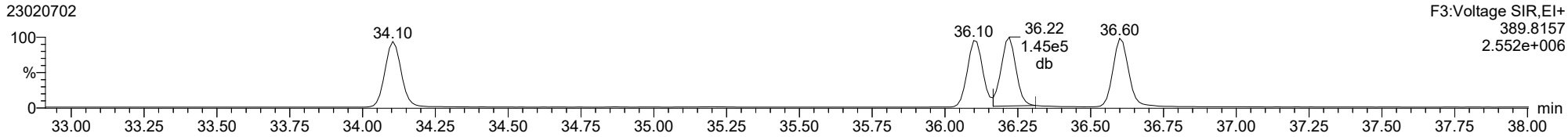

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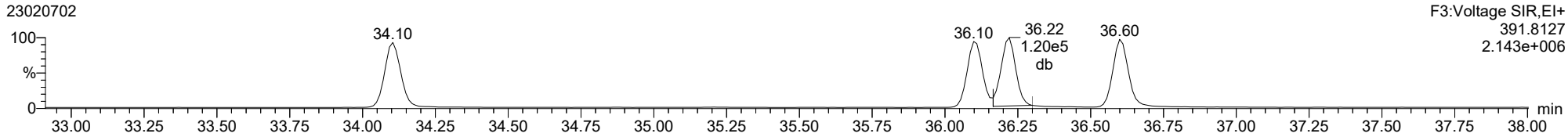

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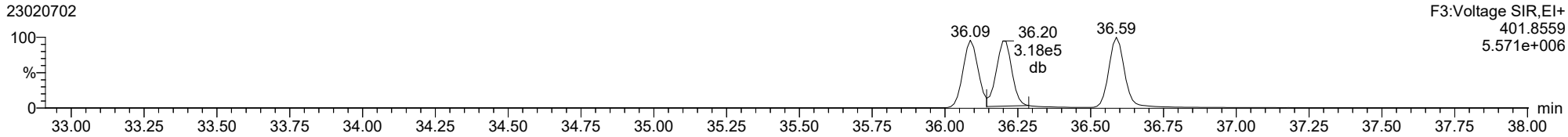

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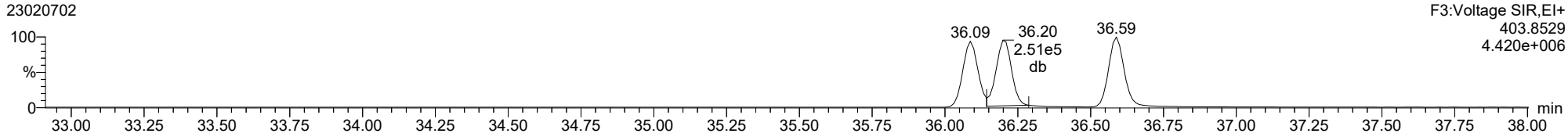

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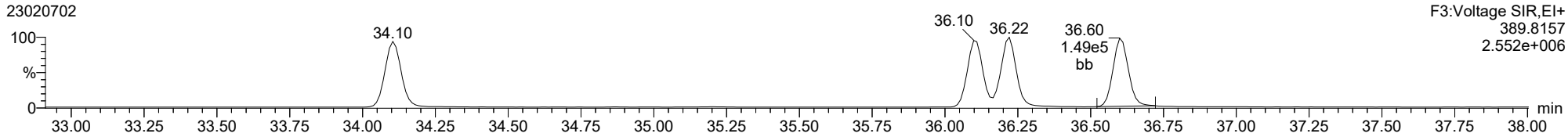

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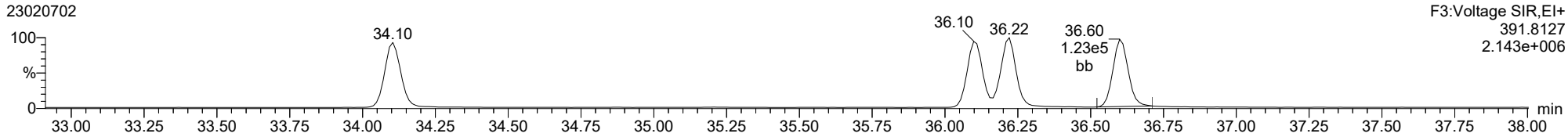

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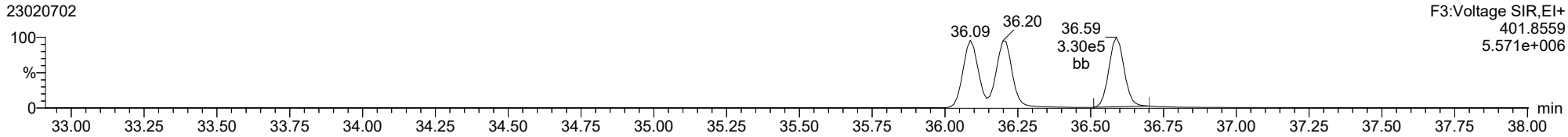

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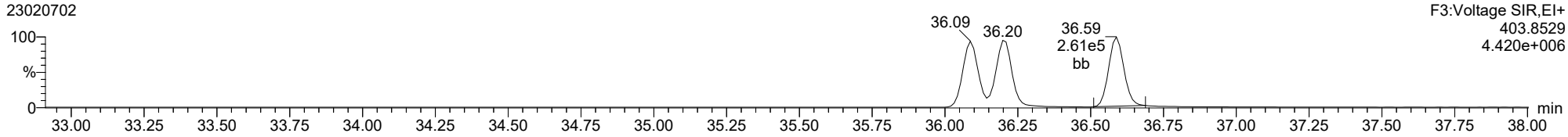

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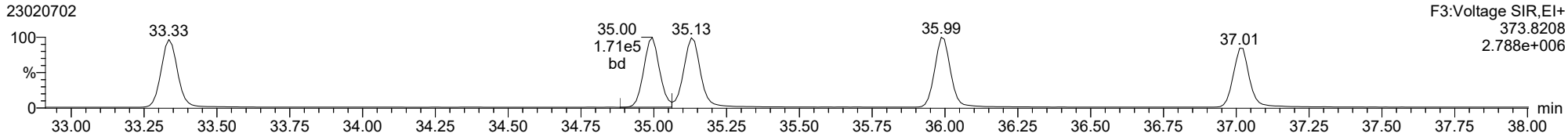

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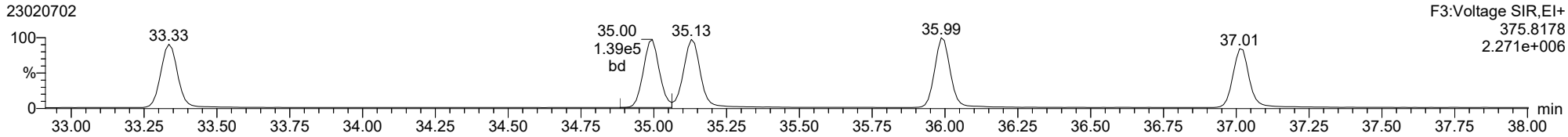

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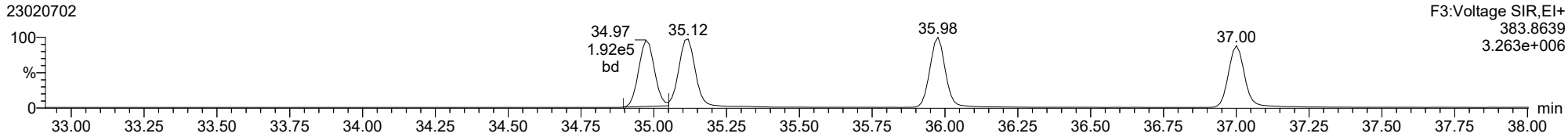

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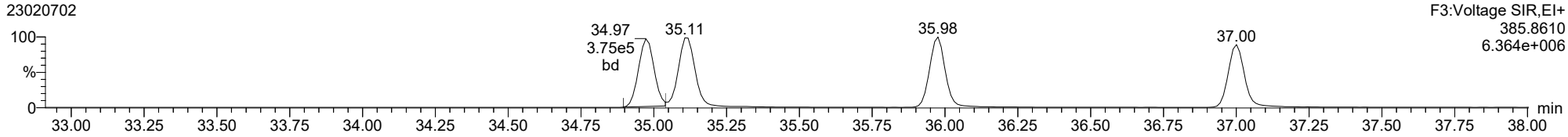

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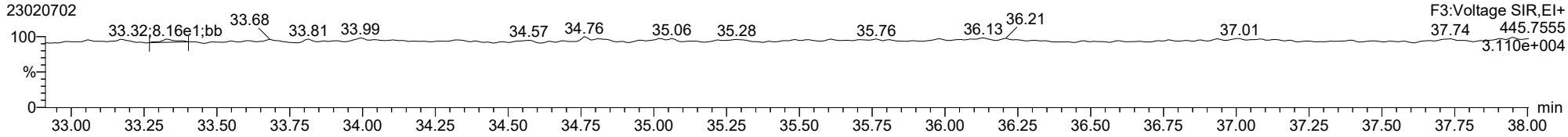

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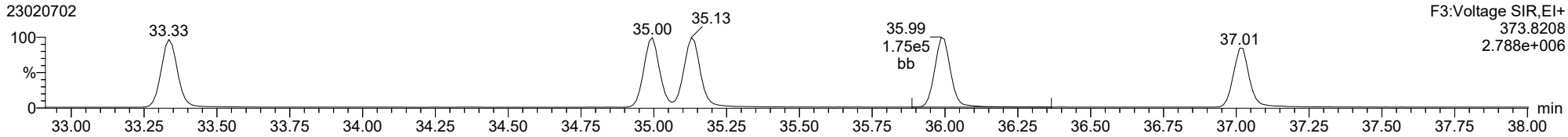

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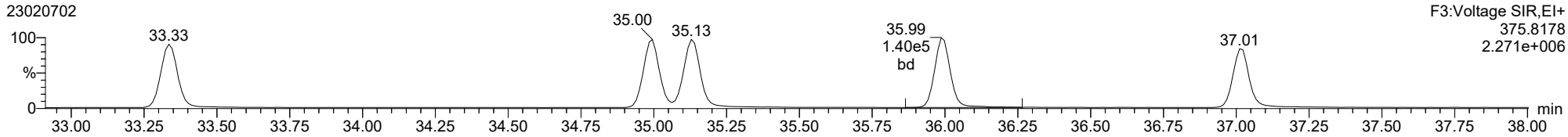

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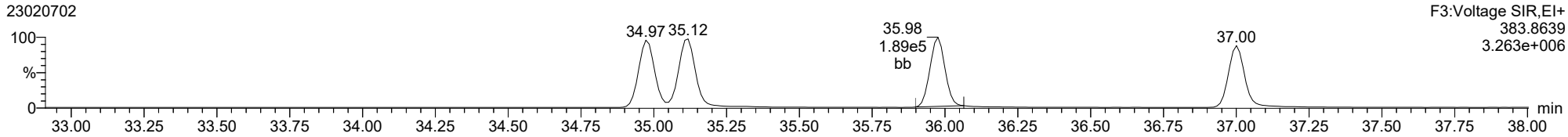

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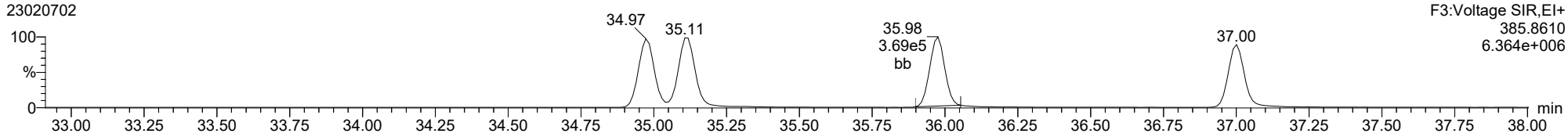
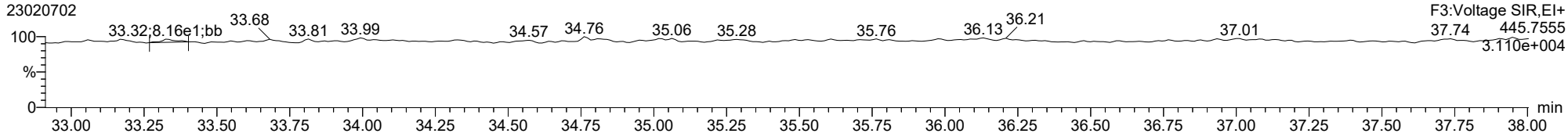


FUNCTION3 OCDPE



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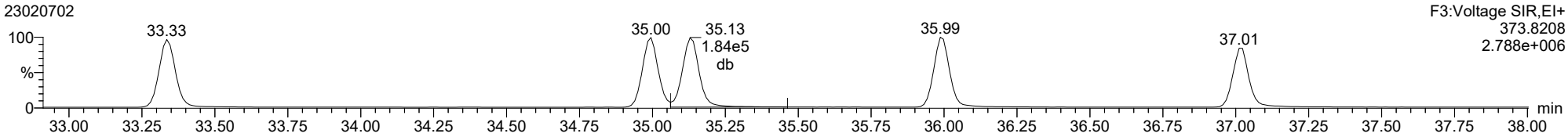

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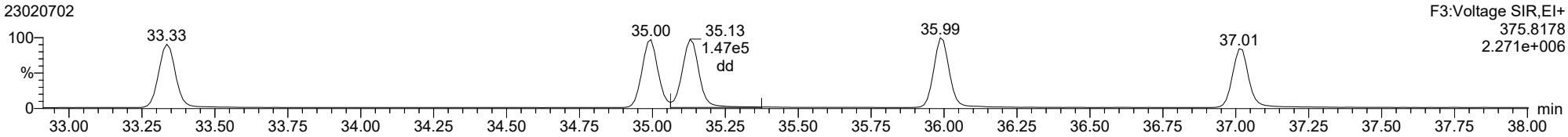

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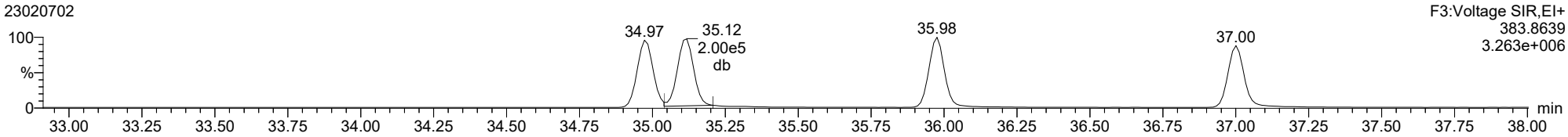

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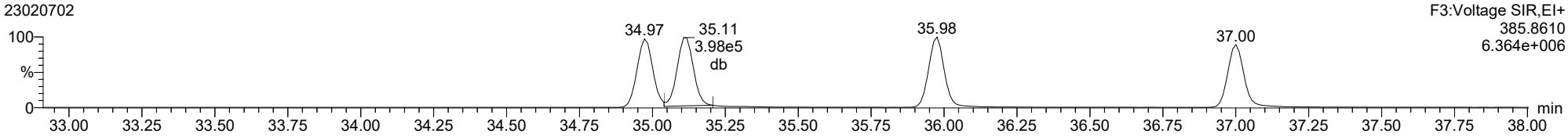

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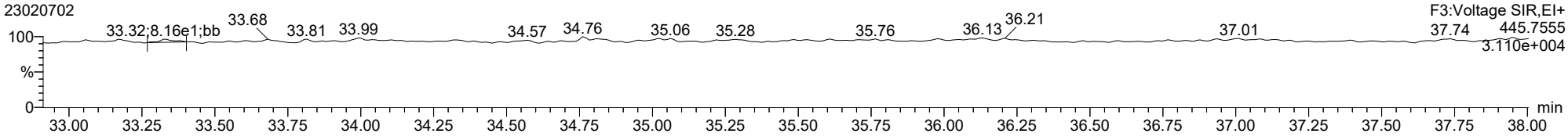

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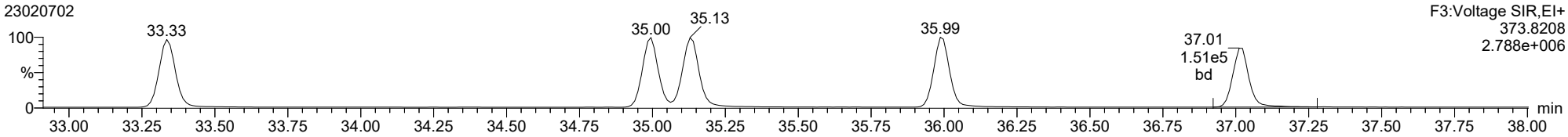

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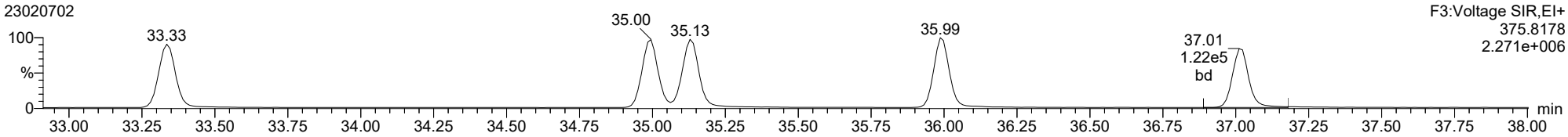

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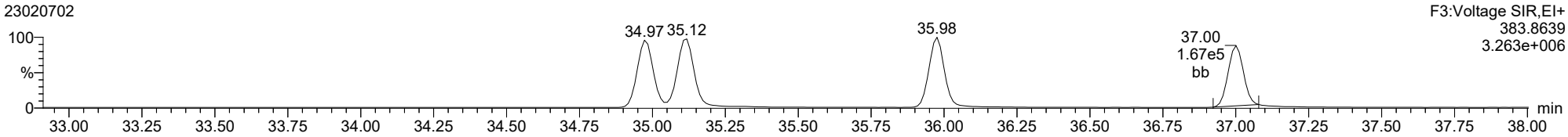

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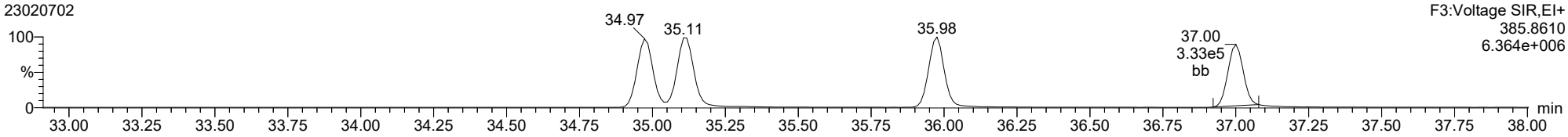

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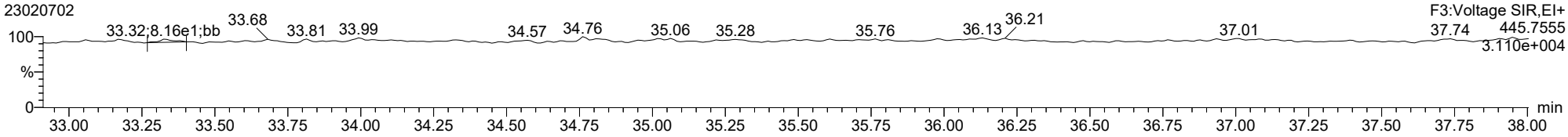

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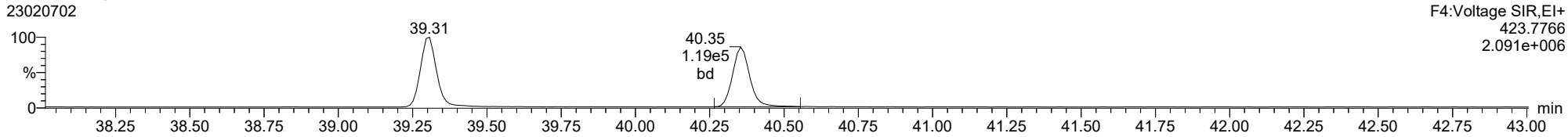

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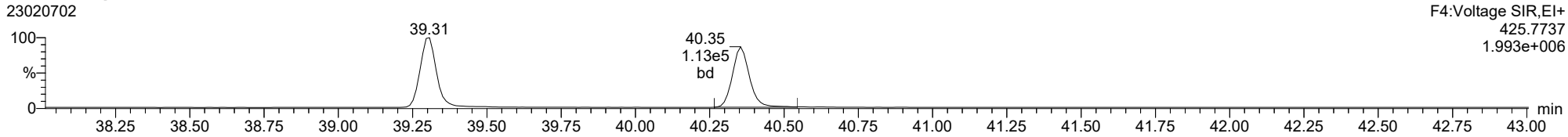

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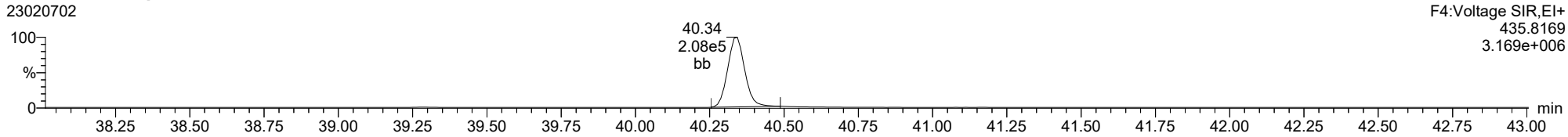

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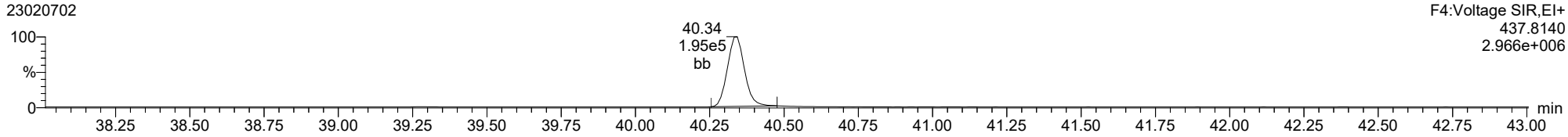

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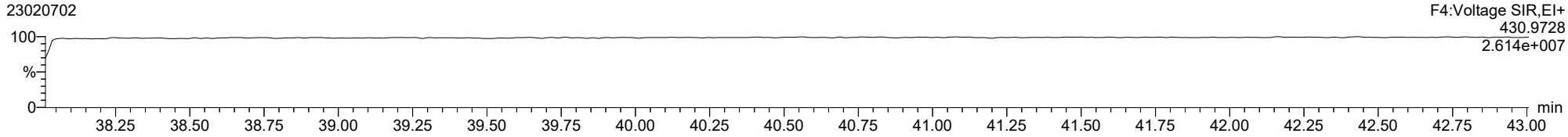

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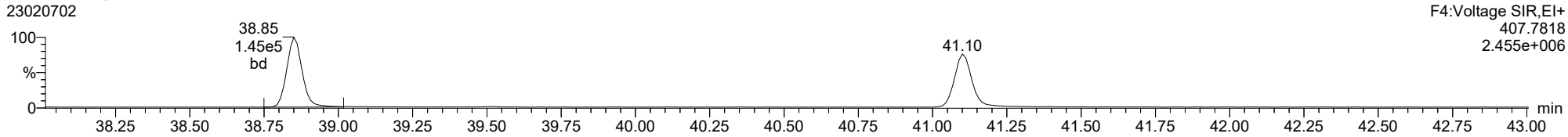

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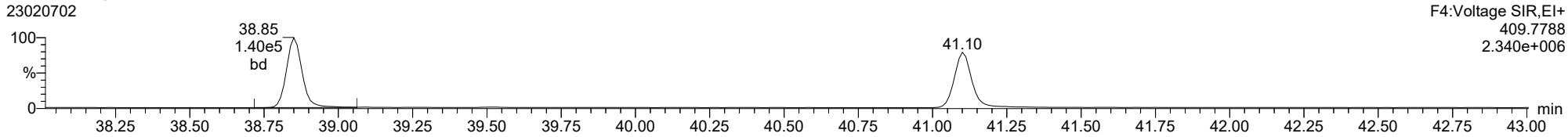

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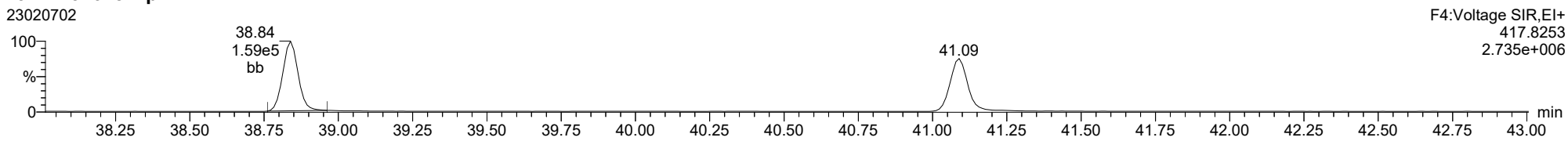

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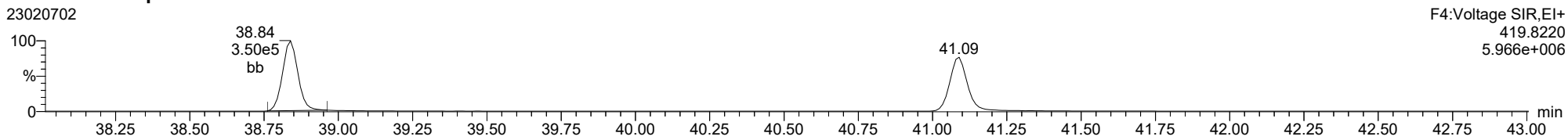

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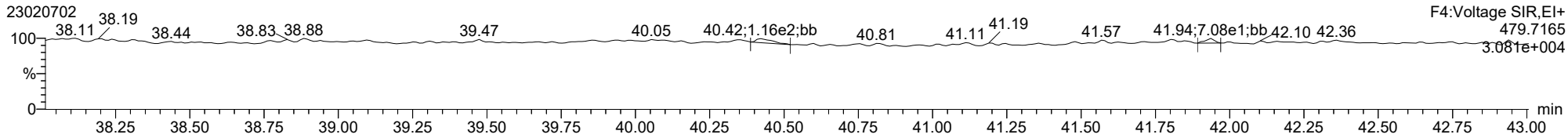

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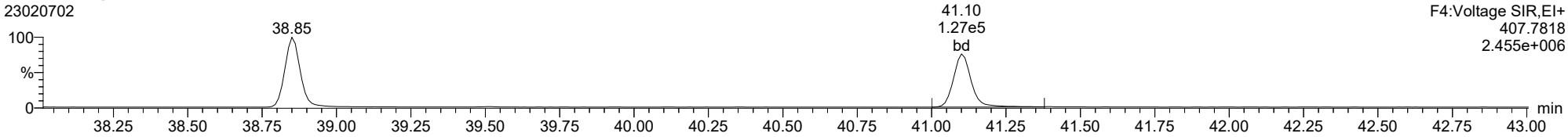

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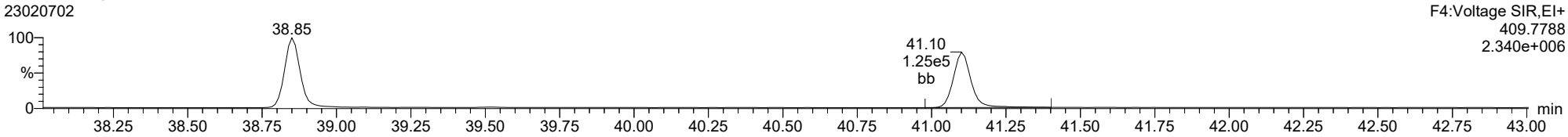

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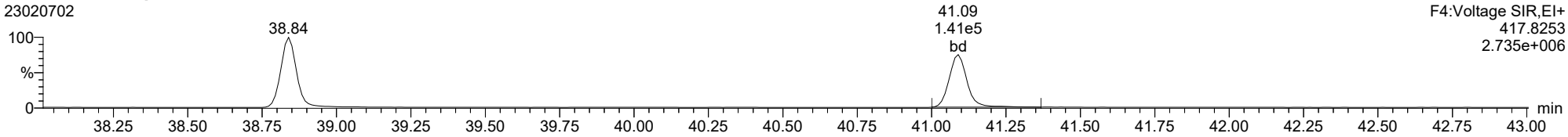

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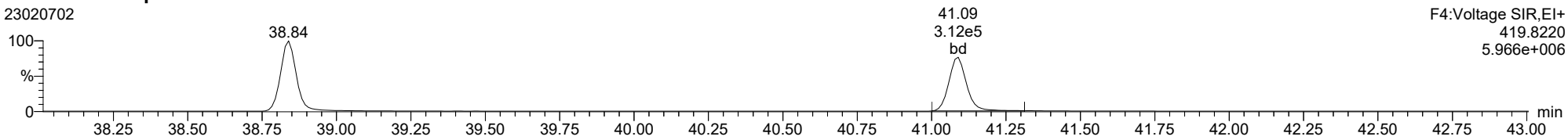

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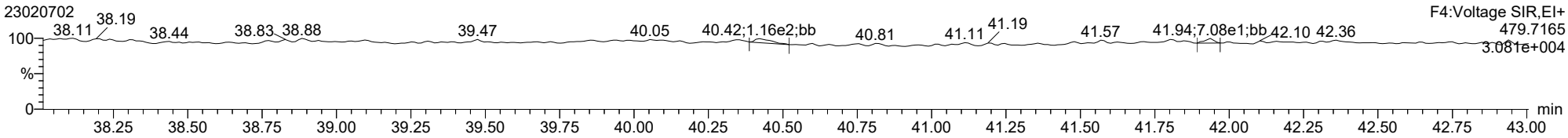

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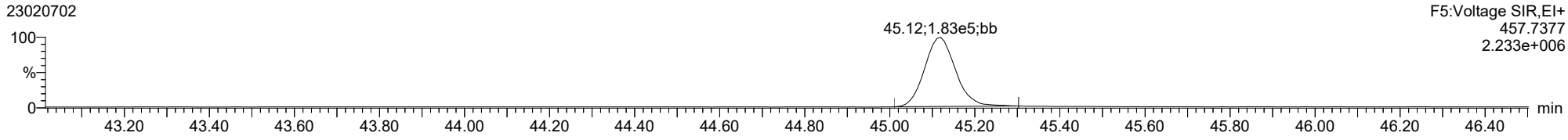

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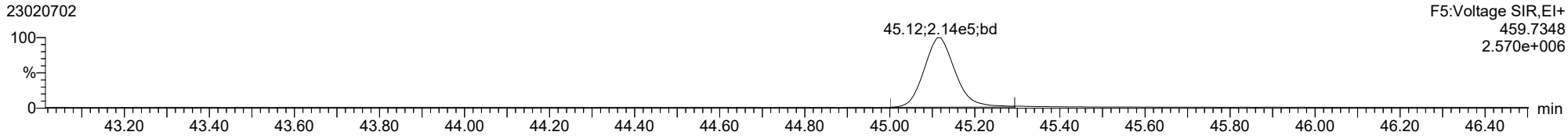

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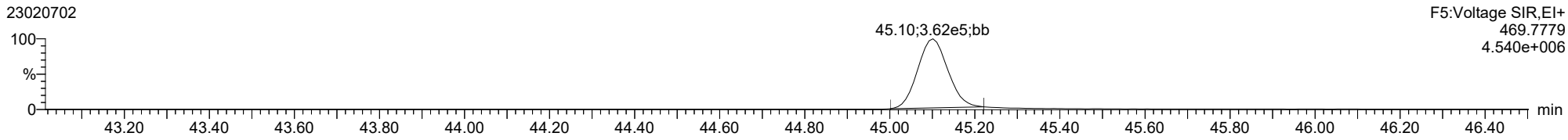

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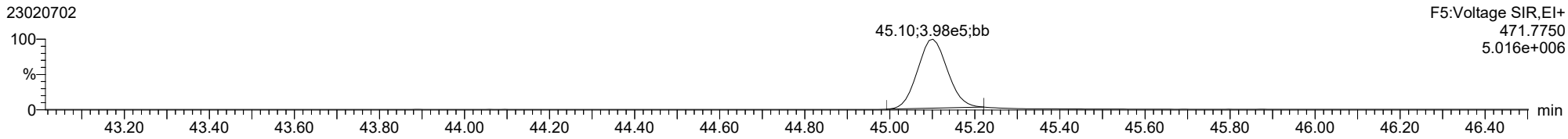

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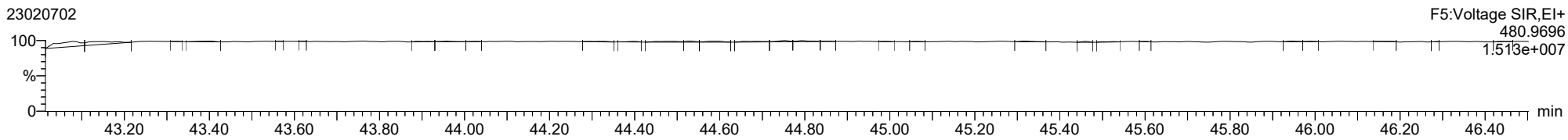

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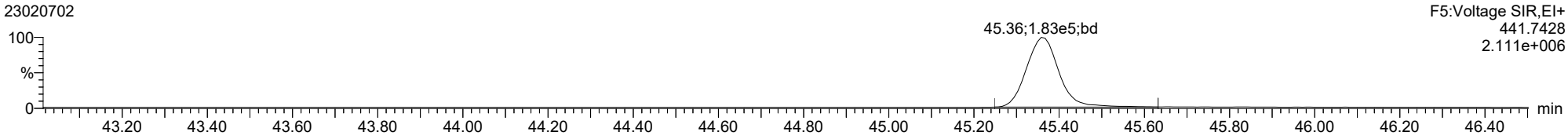

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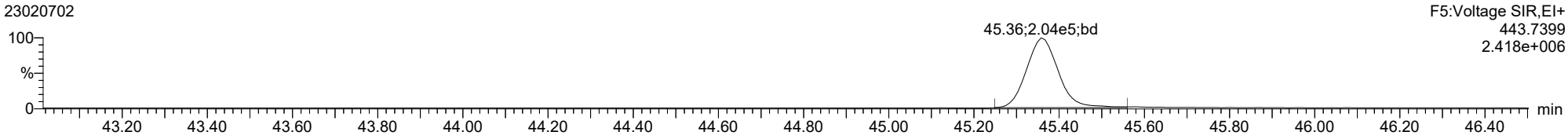
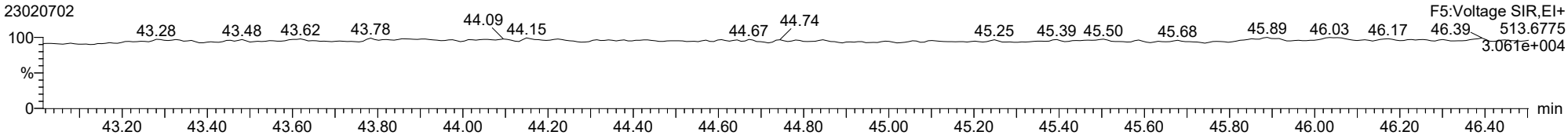


FUNCTION5 DCDPE



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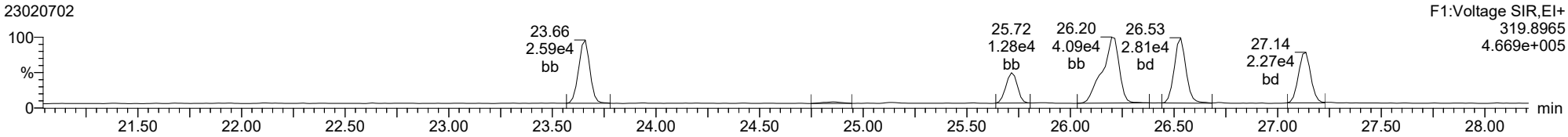
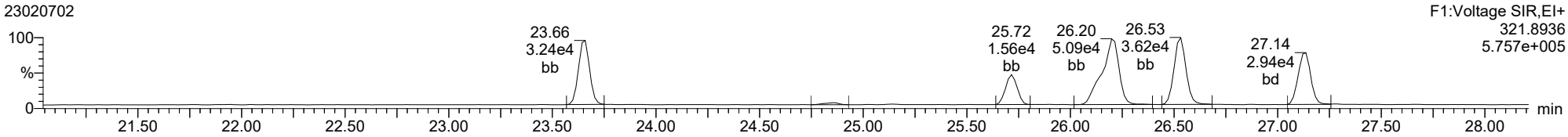


Total-tetradioxins



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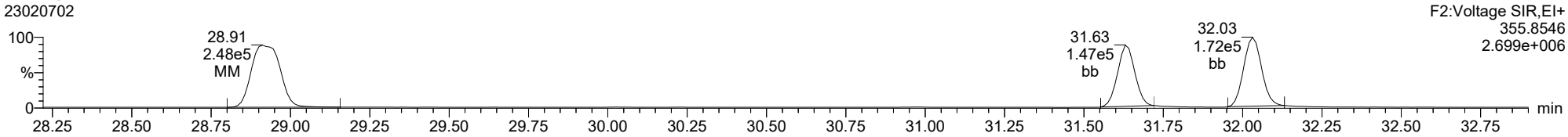

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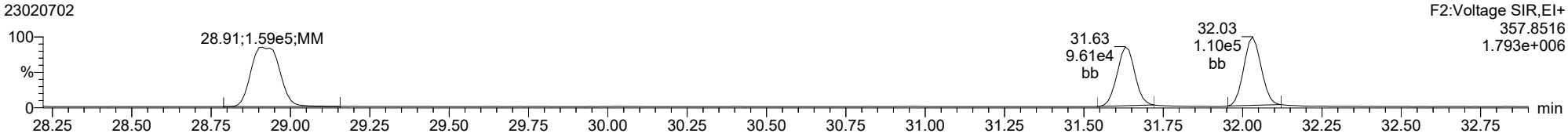

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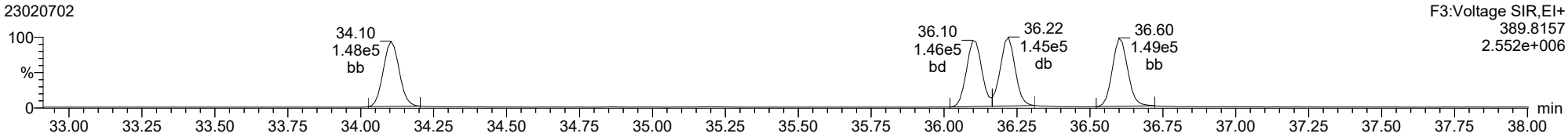
Total-hexadioxins



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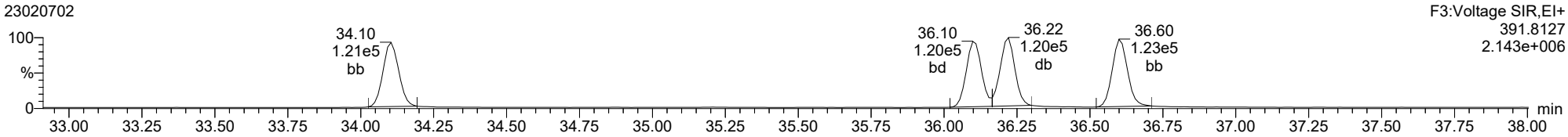

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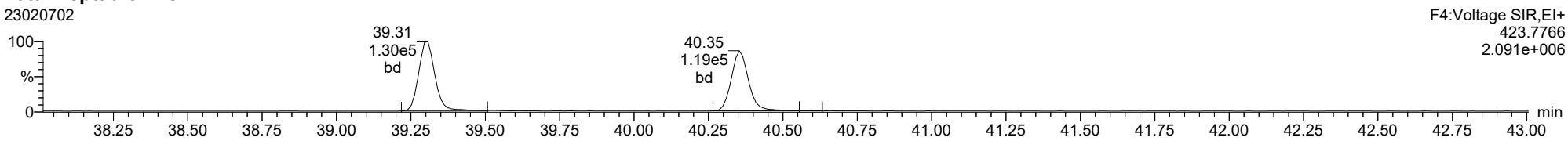

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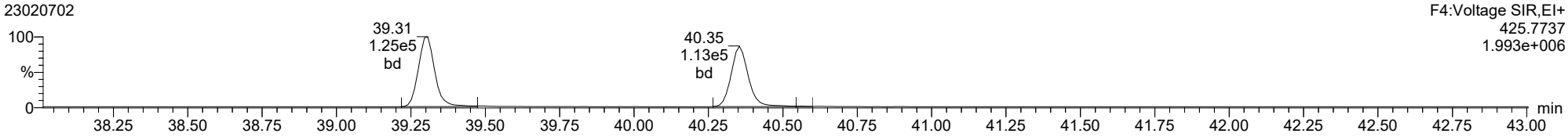

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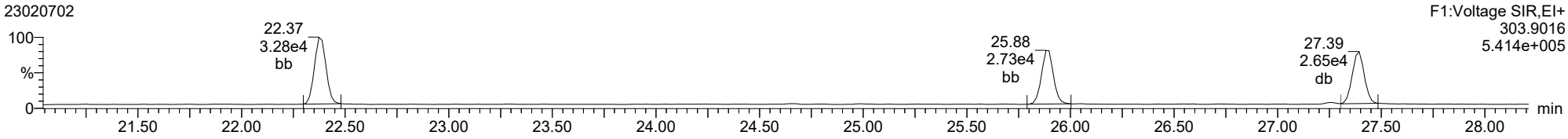
Total-tetrafurans



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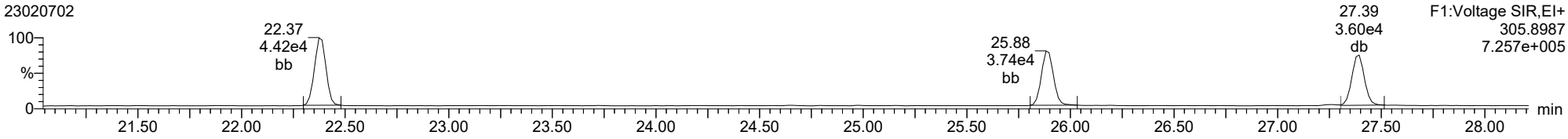

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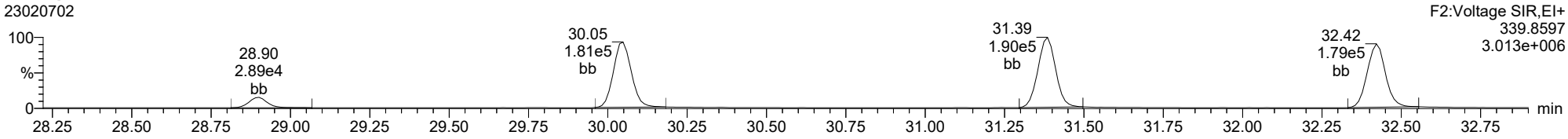

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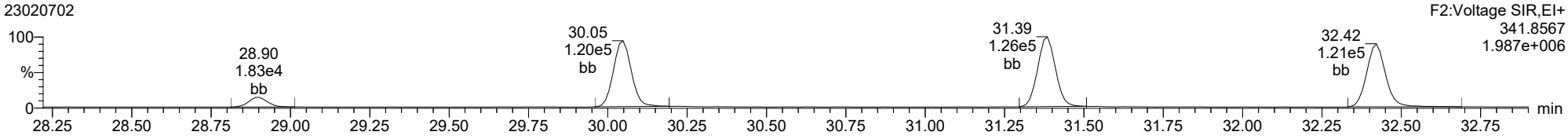

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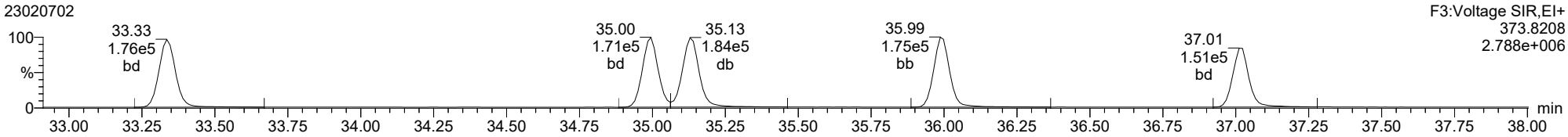
Total-hexafurans



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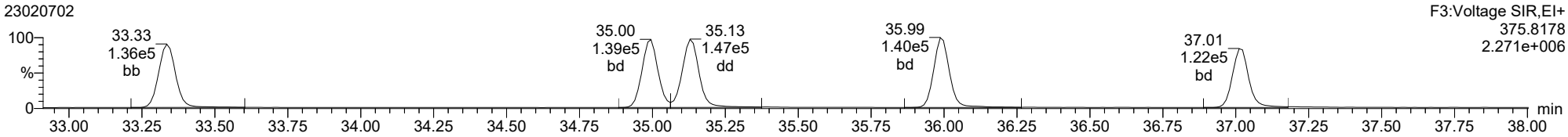

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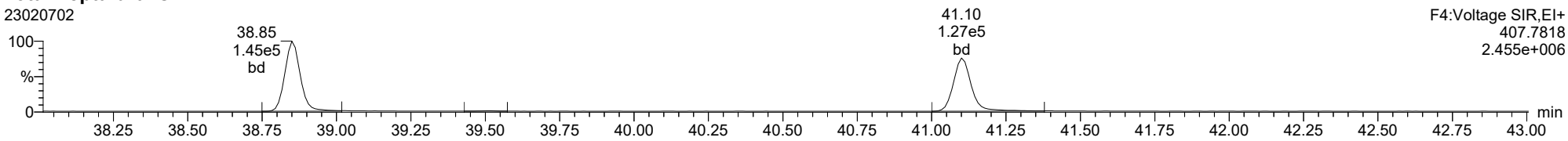

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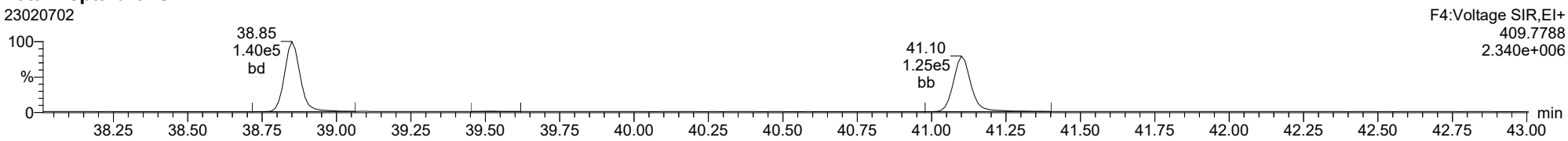
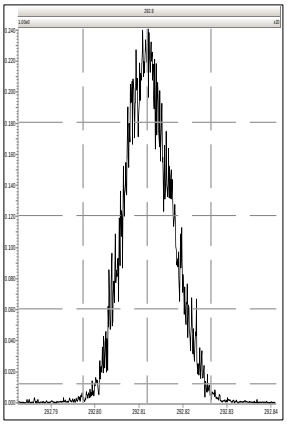
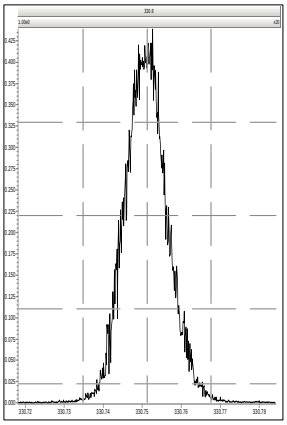


Printed: Tuesday, February 07, 2023 09:21:06 Pacific Standard Time

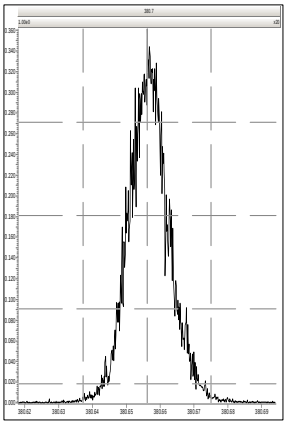
M 292.9824 R 12347



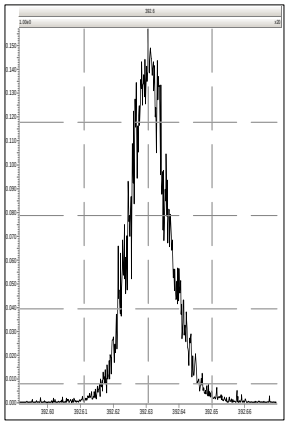
M 330.9792 R 12953



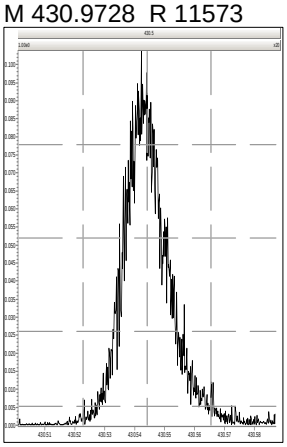
M 380.9760 R 13855



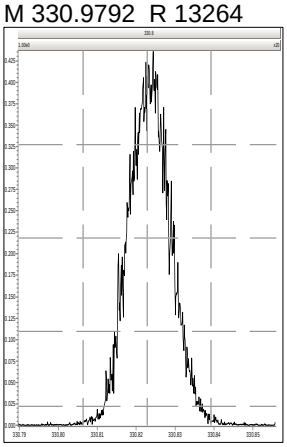
M 392.9760 R 13700



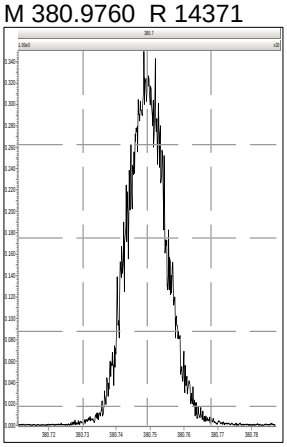
M 430.9728 R 11573



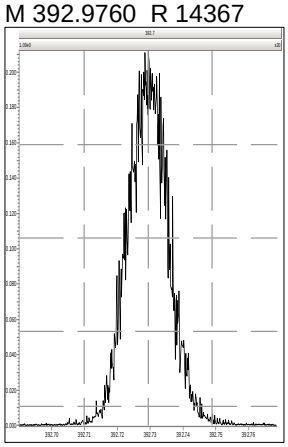
M 330.9792 R 13264



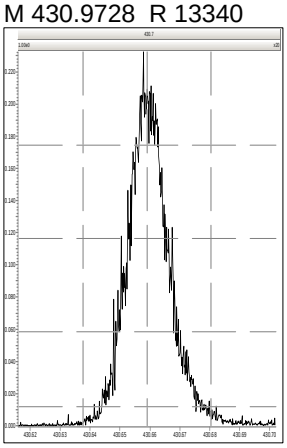
M 380.9760 R 14371



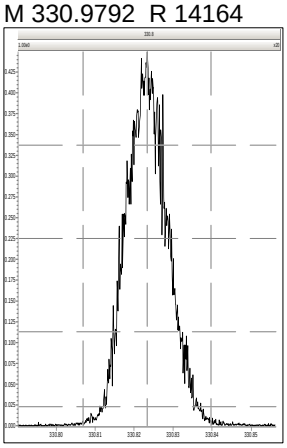
M 392.9760 R 14367



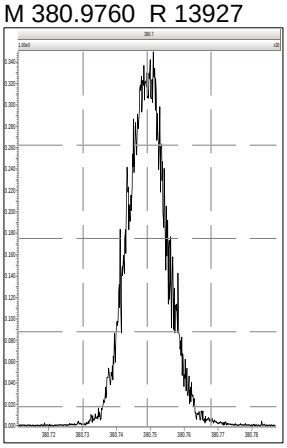
M 430.9728 R 13340



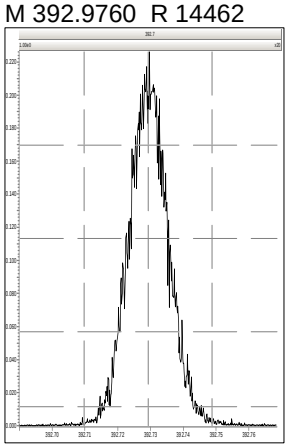
M 330.9792 R 14164



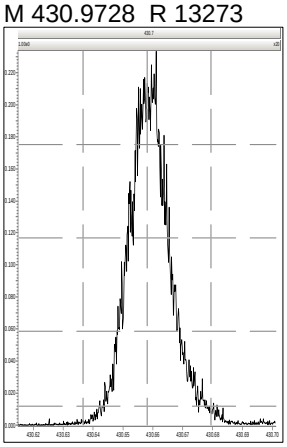
M 380.9760 R 13927



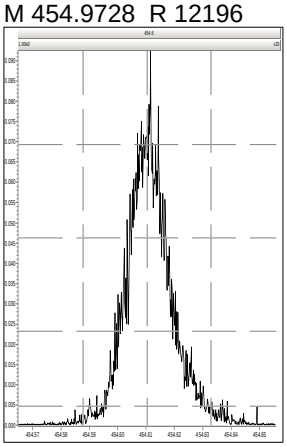
M 392.9760 R 14462



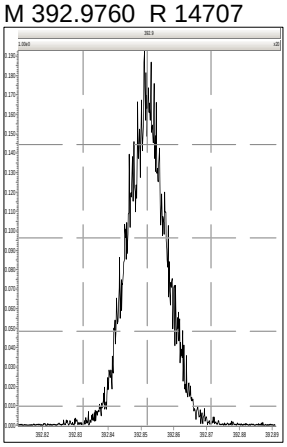
M 430.9728 R 13273



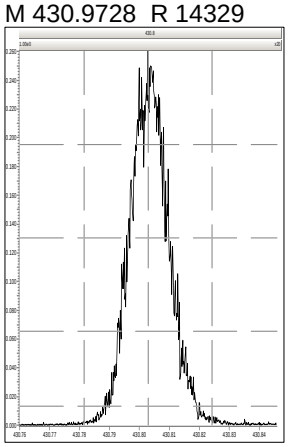
M 454.9728 R 12196



M 392.9760 R 14707

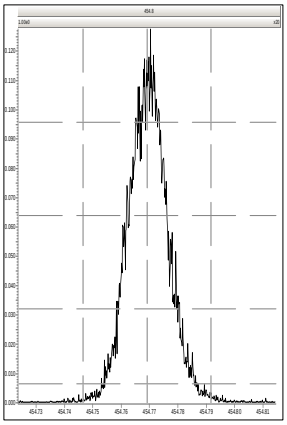


M 430.9728 R 14329

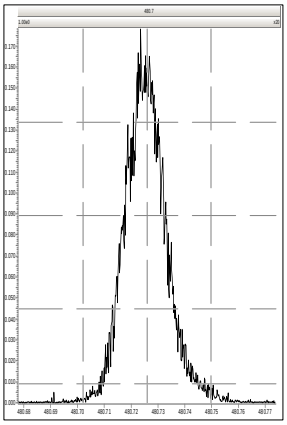


Printed: Tuesday, February 07, 2023 09:21:06 Pacific Standard Time

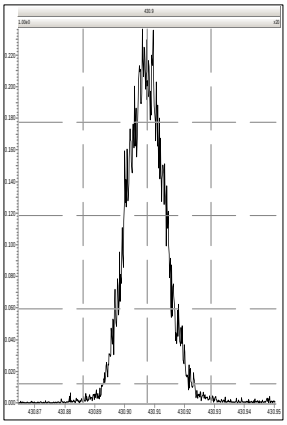
M 454.9728 R 14379



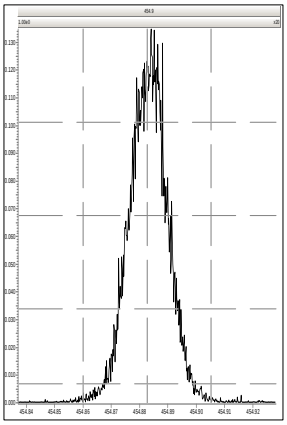
M 480.9696 R 13441



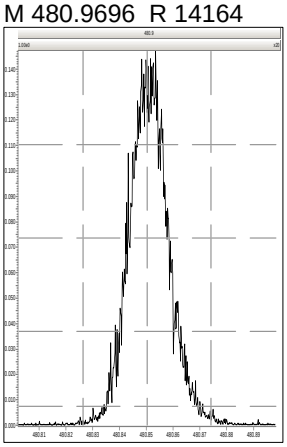
M 430.9728 R 14792



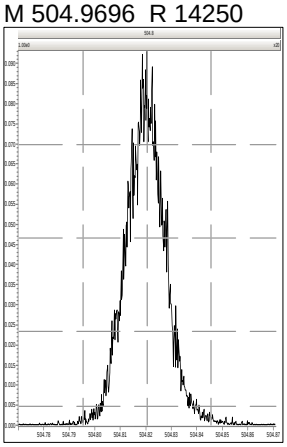
M 454.9728 R 14534



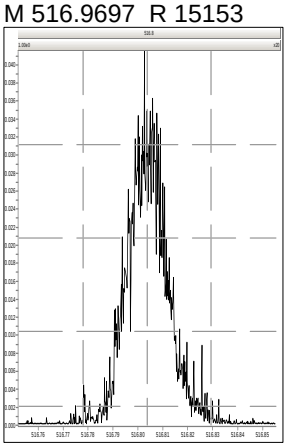
M 480.9696 R 14164

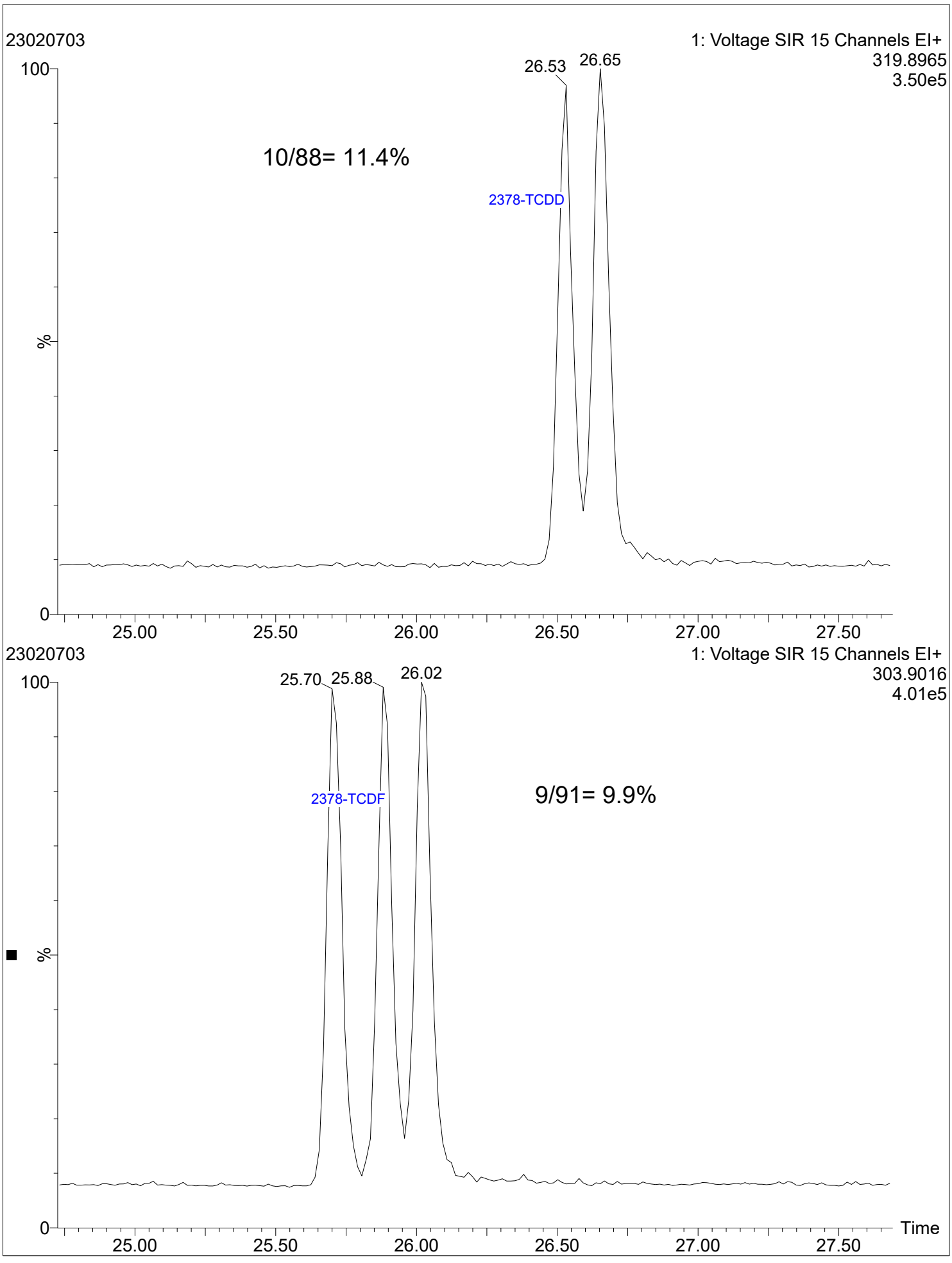


M 504.9696 R 14250



M 516.9697 R 15153




23020703
1: Voltage SIR 15 Channels EI+
319.8965
3.50e5
100
26.53
26.65
10/88= 11.4%
2378-TCDD
%
0
25.00
25.50
26.00
26.50
27.00
27.50
23020703
1: Voltage SIR 15 Channels EI+
303.9016
4.01e5
100
25.70
25.88
26.02
2378-TCDF
9/91= 9.9%
%
0
Time
25.00
25.50
26.00
26.50
27.00
27.50

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GB00010
Lab File ID:	23020111	Calibration Date:	02/01/2023
Sequence:	SLB0026	Injection Date:	02/01/23
Lab Sample ID:	SLB0026-CCV1	Injection Time:	21:12
Sequence Name:	CS3R2		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	10.2	0.8760604	0.8902585		1.6	+/-16
2,3,7,8-TCDD	A	10.000	9.40	1.2363600	1.1618360		-6.0	+/-22
1,2,3,7,8-PeCDF	A	50.000	50.0	0.8446540	0.8449929		0.04	+/-18
2,3,4,7,8-PeCDF	A	50.000	50.7	0.9111780	0.9236419		1.4	+/-18
1,2,3,7,8-PeCDD	A	50.000	51.1	1.0866850	1.1111520		2.3	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	49.6	1.1816860	1.1728360		-0.7	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	50.9	1.2480480	1.2707090		1.8	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	52.6	1.2288500	1.2939400		5.3	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	50.4	1.1865370	1.1969780		0.9	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	50.3	0.9869672	0.9929396		0.6	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	51.0	1.0207220	1.0413320		2.0	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	50.6	0.9854780	0.9974984		1.2	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	48.3	1.2041190	1.1630460		-3.4	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	49.7	1.1653050	1.1577820		-0.6	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	45.5	1.2525690	1.1398400		-9.0	+/-14
OCDF	A	100.00	90.4	1.1862640	1.0729150		-9.6	+/-37
OCDD	A	100.00	92.8	1.1026670	1.0229970		-7.2	+/-21
13C12-2,3,7,8-TCDF	A	100.00	95.3	1.7680590	1.6841852		-4.7	+/-29
13C12-2,3,7,8-TCDD	A	100.00	103	1.1029470	1.1383762		3.2	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	97.8	1.5271250	1.4930478		-2.2	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	97.6	1.4662840	1.4306770		-2.4	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	95.1	0.9141518	0.8689207		-4.9	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	102	1.0536610	1.0736203		1.9	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	102	1.0799530	1.0977524		1.6	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	99.6	1.0143260	1.0099883		-0.4	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	101	0.9279333	0.9355105		0.8	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	100	0.9329336	0.9327825		-0.02	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	100	0.9646272	0.9644574		-0.02	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	102	1.0360890	1.0530458		1.6	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	104	0.9049372	0.9392673		3.8	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	103	0.7819773	0.8033582		2.7	+/-28
13C12-OCDD	A	200.00	213	0.7882343	0.8392826		6.5	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.04	1.2334500	1.1156124		-9.6	

* Values outside of QC limits

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GB00010
Lab File ID:	23020110	Calibration Date:	02/01/2023
Sequence:	SLB0026	Injection Date:	02/01/23
Lab Sample ID:	SLB0026-SCV1	Injection Time:	20:23
Sequence Name:	ICVCR		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.80	0.8760604	0.8586768		-2.0	
2,3,7,8-TCDD	A	10.000	10.1	1.2363600	1.2492920		1.0	
1,2,3,7,8-PeCDF	A	50.000	49.4	0.8446540	0.8351133		-1.1	
2,3,4,7,8-PeCDF	A	50.000	50.7	0.9111780	0.9242915		1.4	
1,2,3,7,8-PeCDD	A	50.000	48.9	1.0866850	1.0622540		-2.2	
1,2,3,4,7,8-HxCDF	A	50.000	50.8	1.1816860	1.2014960		1.7	
1,2,3,6,7,8-HxCDF	A	50.000	51.1	1.2480480	1.2746570		2.1	
2,3,4,6,7,8-HxCDF	A	50.000	51.5	1.2288500	1.2663990		3.1	
1,2,3,7,8,9-HxCDF	A	50.000	49.9	1.1865370	1.1839220		-0.2	
1,2,3,4,7,8-HxCDD	A	50.000	51.0	0.9869672	1.0062160		2.0	
1,2,3,6,7,8-HxCDD	A	50.000	48.3	1.0207220	0.9861518		-3.4	
1,2,3,7,8,9-HxCDD	A	50.000	49.6	0.9854780	10444.61		-0.8	
1,2,3,4,6,7,8-HpCDF	A	50.000	49.0	1.2041190	1.1796410		-2.0	
1,2,3,4,7,8,9-HpCDF	A	50.000	51.5	1.1653050	1.1995620		2.9	
1,2,3,4,6,7,8-HpCDD	A	50.000	48.8	1.2525690	1.2236480		-2.3	
OCDF	A	100.00	93.0	1.1862640	1.1031570		-7.0	
OCDD	A	100.00	95.8	1.1026670	1.0561160		-4.2	
13C12-2,3,7,8-TCDF	A	100.00	101	1.7680590	1.7827674		0.8	
13C12-2,3,7,8-TCDD	A	100.00	97.3	1.1029470	1.0730574		-2.7	
13C12-1,2,3,7,8-PeCDF	A	100.00	97.9	1.5271250	1.4954172		-2.1	
13C12-2,3,4,7,8-PeCDF	A	100.00	96.0	1.4662840	1.4076825		-4.0	
13C12-1,2,3,7,8-PeCDD	A	100.00	95.6	0.9141518	0.8737537		-4.4	
13C12-1,2,3,4,7,8-HxCDF	A	100.00	99.0	1.0536610	1.0427881		-1.0	
13C12-1,2,3,6,7,8-HxCDF	A	100.00	98.8	1.0799530	1.0669191		-1.2	
13C12-2,3,4,6,7,8-HxCDF	A	100.00	99.3	1.0143260	1.0069993		-0.7	
13C12-1,2,3,7,8,9-HxCDF	A	100.00	98.6	0.9279333	0.9147189		-1.4	
13C12-1,2,3,4,7,8-HxCDD	A	100.00	97.7	0.9329336	0.9118251		-2.3	
13C12-1,2,3,6,7,8-HxCDD	A	100.00	101	0.9646272	0.9706530		0.6	
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	100	1.0360890	1.0396134		0.3	
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	101	0.9049372	0.9117511		0.8	
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	101	0.7819773	0.7868918		0.6	
13C12-OCDD	A	200.00	205	0.7882343	0.8085897		2.6	
37Cl4-2,3,7,8-TCDD	A	10.000	8.94	1.2334500	1.1023697		-10.6	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GB00010
Lab File ID:	23020712	Calibration Date:	02/01/2023
Sequence:	SLB0072	Injection Date:	02/07/23
Lab Sample ID:	SLB0072-CCV1	Injection Time:	18:03
Sequence Name:	CS3T2		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.62	0.8760604	0.8425410		-3.8	+/-16
2,3,7,8-TCDD	A	10.000	9.12	1.2363600	1.1279220		-8.8	+/-22
1,2,3,7,8-PeCDF	A	50.000	49.3	0.8446540	0.8333849		-1.3	+/-18
2,3,4,7,8-PeCDF	A	50.000	50.2	0.9111780	0.9145696		0.4	+/-18
1,2,3,7,8-PeCDD	A	50.000	48.9	1.0866850	1.0635240		-2.1	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.2	1.1816860	1.1145670		-5.7	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	46.0	1.2480480	1.1491650		-7.9	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	48.6	1.2288500	1.1942680		-2.8	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	47.0	1.1865370	1.1151780		-6.0	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	46.3	0.9869672	0.9147686		-7.3	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	46.4	1.0207220	0.9463653		-7.3	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	45.4	0.9854780	0.8955373		-9.1	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.6	1.2041190	1.1462050		-4.8	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	47.9	1.1653050	1.1174530		-4.1	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	44.8	1.2525690	1.1232850		-10.3	+/-14
OCDF	A	100.00	88.4	1.1862640	1.0487720		-11.6	+/-37
OCDD	A	100.00	92.2	1.1026670	1.0161490		-7.8	+/-21
13C12-2,3,7,8-TCDF	A	100.00	90.4	1.7680590	1.5989330		-9.6	+/-29
13C12-2,3,7,8-TCDD	A	100.00	104	1.1029470	1.1513037		4.4	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	96.8	1.5271250	1.4789332		-3.2	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	98.7	1.4662840	1.4477561		-1.3	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	104	0.9141518	0.9514060		4.1	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	98.0	1.0536610	1.0323667		-2.0	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	98.4	1.0799530	1.0621887		-1.6	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	97.4	1.0143260	0.9880678		-2.6	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	99.4	0.9279333	0.9219389		-0.6	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	109	0.9329336	1.0148075		8.8	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	107	0.9646272	1.0358556		7.4	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	90.9	1.0360890	0.9416701		-9.1	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	93.7	0.9049372	0.8477012		-6.3	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	100	0.7819773	0.7837238		0.2	+/-28
13C12-OCDD	A	200.00	181	0.7882343	0.7125389		-9.6	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.10	1.2334500	1.1218993		-9.0	

* Values outside of QC limits

* Values outside of QC limits

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:30:36 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	3.277e4	4.402e4	0.876	0.744	0.770	997	1584	5.01e5	6.76e5	502.2	426.8	NO	bb	bb	9.617
12378-PeCDF	30.037	1.001	2.126e5	1.387e5	0.845	1.533	1.550	1961	1823	3.25e6	2.15e6	1659.1	1177.0	NO	bb	bb	49.333
23478-PeCDF	31.374	1.001	2.264e5	1.510e5	0.911	1.499	1.550	1961	1823	3.56e6	2.28e6	1816.7	1251.6	NO	bb	dd	50.186
123478-HxCDF	34.995	1.001	2.051e5	1.648e5	1.182	1.245	1.240	1581	1600	3.17e6	2.52e6	2001.9	1575.8	NO	bd	bd	47.160
234678-HxCDF	35.987	1.000	2.102e5	1.692e5	1.229	1.242	1.240	1581	1600	3.32e6	2.69e6	2096.4	1683.4	NO	bb	bb	48.593
123678-HxCDF	35.129	1.000	2.187e5	1.737e5	1.248	1.259	1.240	1581	1600	3.39e6	2.67e6	2142.9	1668.0	NO	db	db	46.038
123789-HxCDF	37.012	1.000	1.837e5	1.468e5	1.187	1.251	1.240	1581	1600	2.81e6	2.27e6	1773.8	1417.9	NO	bd	bb	46.993
1234678-HpCDF	38.850	1.000	1.758e5	1.712e5	1.204	1.027	1.050	2063	1689	2.83e6	2.80e6	1371.7	1657.9	NO	bd	bb	47.595
1234789-HpCDF	41.101	1.000	1.540e5	1.505e5	1.165	1.023	1.050	2063	1689	2.16e6	2.14e6	1046.6	1265.4	NO	bd	bb	47.947
OCDF	45.367	1.006	2.270e5	2.535e5	1.186	0.895	0.890	1195	1577	2.58e6	2.84e6	2156.5	1802.5	NO	bd	bd	88.410
2378-TCDD	26.517	1.001	3.268e4	4.134e4	1.236	0.791	0.770	958	1020	5.06e5	6.20e5	528.3	607.8	NO	bb	bb	9.123
12378-PeCDD	31.631	1.001	1.765e5	1.119e5	1.087	1.578	1.550	1663	1480	2.74e6	1.72e6	1646.9	1162.9	NO	bb	bb	48.934
123478-HxCDD	36.098	1.000	1.629e5	1.355e5	0.987	1.202	1.240	1413	1787	2.76e6	2.30e6	1952.5	1286.8	NO	bd	bd	46.342
123678-HxCDD	36.221	1.001	1.732e5	1.419e5	1.021	1.220	1.240	1413	1787	2.77e6	2.24e6	1958.5	1250.6	NO	db	db	46.358
123789-HxCDD	36.599	1.011	1.629e5	1.322e5	0.985	1.232	1.240	1413	1787	2.60e6	2.13e6	1843.0	1191.0	NO	bb	bb	45.437
1234678-HpCDD	40.354	1.000	1.447e5	1.383e5	1.253	1.046	1.050	1460	1446	2.12e6	2.03e6	1452.7	1404.4	NO	bd	bd	44.839
OCDD	45.120	1.000	2.168e5	2.488e5	1.103	0.871	0.890	1128	726	2.60e6	2.94e6	2303.6	4053.8	NO	bb	bb	92.154
13C-2378-TCDF	25.867	1.007	4.007e5	5.108e5	1.768	0.785	0.770	2076	1628	6.15e6	7.77e6	2965.3	4774.1	NO	bb	bb	90.434
13C-12378-PeCDF	30.015	1.169	5.099e5	3.332e5	1.527	1.530	1.550	2048	1361	7.68e6	5.07e6	3753.0	3723.4	NO	bb	bb	96.844
13C-23478-PeCDF	31.352	1.221	4.998e5	3.256e5	1.466	1.535	1.550	2048	1361	7.66e6	4.94e6	3743.1	3629.9	NO	bb	bb	98.736
13C-123478-HxCDF	34.973	0.956	2.234e5	4.404e5	1.054	0.507	0.510	1394	2029	3.63e6	7.07e6	2601.9	3486.4	NO	bd	bd	97.979
13C-123678-HxCDF	35.118	0.960	2.336e5	4.493e5	1.080	0.520	0.510	1394	2029	3.70e6	7.18e6	2652.9	3540.5	NO	db	db	98.355
13C-234678-HxCDF	35.976	0.983	2.155e5	4.198e5	1.014	0.513	0.510	1394	2029	3.61e6	6.99e6	2592.2	3445.0	NO	bb	bb	97.411
13C-123789-HxCDF	37.001	1.011	1.992e5	3.936e5	0.928	0.506	0.510	1394	2029	3.27e6	6.47e6	2343.4	3188.4	NO	bb	bb	99.354
13C-1234678-HpCDF	38.839	1.062	1.870e5	4.184e5	1.036	0.447	0.440	1688	2097	3.12e6	7.10e6	1847.8	3384.0	NO	bb	bb	90.887
13C-1234789-HpCDF	41.090	1.123	1.676e5	3.774e5	0.905	0.444	0.440	1688	2097	2.41e6	5.32e6	1425.7	2535.6	NO	bd	bd	93.675
13C-1234-TCDD	25.685	0.000	2.526e5	3.174e5	1.000	0.796	0.770	1770	1120	4.00e6	5.00e6	2260.7	4465.7	NO	bb	bb	100.000
13C-2378-TCDD	26.502	1.032	2.894e5	3.669e5	1.103	0.789	0.770	1770	1120	4.37e6	5.52e6	2468.5	4931.0	NO	bb	bb	104.384
13C-12378-PeCDD	31.608	1.231	3.343e5	2.080e5	0.914	1.607	1.550	889	1886	4.93e6	3.13e6	5548.9	1657.3	NO	bb	bd	104.075
13C-123478-HxCDD	36.087	0.986	3.637e5	2.888e5	0.933	1.260	1.240	2336	1276	6.15e6	4.85e6	2633.3	3799.7	NO	bd	bd	108.776
13C-123678-HxCDD	36.199	0.989	3.733e5	2.927e5	0.965	1.275	1.240	2336	1276	6.04e6	4.76e6	2587.7	3729.2	NO	db	db	107.384
13C-1234678-HpCDD	40.343	1.103	2.613e5	2.426e5	0.782	1.077	1.050	1333	1266	3.89e6	3.61e6	2916.8	2849.1	NO	bb	bd	100.223
13C-OCDD	45.102	1.233	4.384e5	4.778e5	0.788	0.918	0.890	1711	1145	5.34e6	5.74e6	3120.2	5013.8	NO	bb	bb	180.794
13C-123789-HxCDD	36.588	0.000	3.587e5	2.843e5	1.000	1.262	1.240	2336	1276	5.81e6	4.66e6	2488.9	3649.7	NO	bb	bb	100.000
37CL-2378-TCDD	26.517	1.032	6.396e4		1.233			1329		9.96e5		749.5			bb		9.096

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
Printed: Wednesday, February 08, 2023 09:30:36 Pacific Standard Time

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.359	0.864	3.726e4	4.903e4	1.064	0.760	0.770	997	1584	5.78e5	7.73e5	579.4	488.1	NO	bb	bb	8.893
1289-TCDF	27.378	1.058	3.235e4	4.245e4	0.858	0.762	0.770	997	1584	4.84e5	6.44e5	485.1	406.4	NO	db	db	9.568
13468-PECDF	27.227	0.907	2.740e5	1.745e5	1.013	1.570	1.550	654	870	4.19e6	2.73e6	6408.0	3144.6	NO	bb	bb	52.525
12389-PECDF	32.410	1.080	2.153e5	1.414e5	0.844	1.523	1.550	1961	1823	3.23e6	2.12e6	1649.2	1162.6	NO	bb	bb	50.151
123468-HXCDF	33.335	0.953	2.054e5	1.657e5	1.197	1.239	1.240	1581	1600	3.06e6	2.52e6	1933.1	1573.0	NO	bb	bb	46.698
1368-TCDD	23.644	0.892	2.987e4	3.899e4	1.084	0.766	0.770	958	1020	4.60e5	6.04e5	479.8	592.3	NO	bb	bb	9.676
1289-TCDD	27.122	1.023	2.843e4	3.757e4	0.975	0.757	0.770	958	1020	4.28e5	5.60e5	447.1	549.0	NO	bb	bb	10.311
12479-PECDD	28.912	0.915	2.811e5	1.811e5	1.837	1.552	1.550	1663	1480	2.72e6	1.74e6	1635.6	1173.4	NO	bb	bb	46.381
12389-PECDD	32.021	1.013	2.046e5	1.300e5	1.252	1.574	1.550	1663	1480	3.09e6	2.00e6	1858.7	1348.7	NO	bb	bb	49.269
124679-HXCDD	34.104	0.945	1.714e5	1.381e5	1.033	1.241	1.240	1413	1787	2.67e6	2.17e6	1887.9	1214.4	NO	bb	bb	45.934
1234679-HPCDD	39.307	0.974	1.602e5	1.563e5	1.286	1.025	1.050	1460	1446	2.52e6	2.40e6	1728.2	1661.6	NO	bd	bd	48.826
Total-tetrafurans			1.033e5		0.933			997		1.58e6							28.328
Total-penta1			2.740e5					654		4.19e6							52.525
Total-pentafurans			6.875e5		0.866			1961		1.06e7							157.288
Total-hexafurans			1.023e6		1.208			1581		1.57e7							235.482
Total-heptafurans			3.298e5		1.185			2063		4.99e6							95.542
Total-Furans			2.645e6		1.067			997		3.96e7							657.574
Total-tetradioxins			1.549e5		1.099			958		2.14e6							49.032
Total-pentadioxins			6.628e5		1.392			1663		8.56e6							144.714
Total-hexadioxins			6.722e5		1.007			1413		1.08e7							184.532
Total-heptadioxins			3.048e5		1.269			1460		4.65e6							93.665
Total-Dioxins			2.012e6		1.165			958		2.88e7							564.097
Total-TEQ			4.656e6					958		6.84e7							1221.671
FUNCTION1 PFK			2.655e7					338448		1.39e8							
FUNCTION2 PFK			6.100e3					202881		3.37e5							0.000
FUNCTION3 PFK			1.677e7					268870		1.67e7							0.000
FUNCTION4 PFK			4.680e4					186506		1.19e6							
FUNCTION5 PFK			9.757e4					125142		3.45e6							
FUNCTION1 HXCD...			5.883e2					719		8.53e3							0.000
FUNCTION1 HPCD...			7.087e2					765		9.46e3							0.000
FUNCTION2 HPCD...			4.761e2					974		7.53e3							0.000
FUNCTION3 OCDPE			5.293e2					700		7.57e3							0.000
FUNCTION4 NCDPE			6.561e2					933		1.27e4							0.000
FUNCTION5 DCDPE			7.441e1					685		1.58e3							0.000

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	3.235e4	4.245e4	0.858	0.76	0.77	485.1	YES	NO	db	db	9.568
2	Total-tetrafurans	27.24	8.735e2	1.247e3	0.933	0.70	0.77	14.5	YES	NO	bd	bd	0.249
3	2378-TCDF	25.88	3.277e4	4.402e4	0.876	0.74	0.77	502.2	YES	NO	bb	bb	9.617
4	1368-TCDF	22.36	3.726e4	4.903e4	1.064	0.76	0.77	579.4	YES	NO	bb	bb	8.893

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.23	2.740e5	1.745e5	1.013	1.57	1.55	6408.0	YES	NO	bb	bb	52.525

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	30.20	1.837e2	1.243e2	0.866	1.48	1.55	2.4	NO	NO	bb	bb	0.043
2	12378-PeCDF	30.04	2.126e5	1.387e5	0.845	1.53	1.55	1659.1	YES	NO	bb	bb	49.333
3	Total-pentafurans	28.89	3.289e4	2.164e4	0.866	1.52	1.55	257.1	YES	NO	bb	bb	7.545
4	12389-PECDF	32.41	2.153e5	1.414e5	0.844	1.52	1.55	1649.2	YES	NO	bb	bb	50.151
5	Total-pentafurans	31.62	1.344e2	7.833e1	0.866	1.72	1.55	1.9	NO	NO	bb	db	0.029
6	23478-PeCDF	31.37	2.264e5	1.510e5	0.911	1.50	1.55	1816.7	YES	NO	bb	dd	50.186

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.01	1.837e5	1.468e5	1.187	1.25	1.24	1773.8	YES	NO	bd	bb	46.993
2	234678-HxCDF	35.99	2.102e5	1.692e5	1.229	1.24	1.24	2096.4	YES	NO	bb	bb	48.593
3	123678-HxCDF	35.13	2.187e5	1.737e5	1.248	1.26	1.24	2142.9	YES	NO	db	db	46.038
4	123478-HxCDF	35.00	2.051e5	1.648e5	1.182	1.24	1.24	2001.9	YES	NO	bd	bd	47.160
5	123468-HXCDF	33.34	2.054e5	1.657e5	1.197	1.24	1.24	1933.1	YES	NO	bb	bb	46.698

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	1.540e5	1.505e5	1.165	1.02	1.05	1046.6	YES	NO	bd	bb	47.947
2	1234678-HpCDF	38.85	1.758e5	1.712e5	1.204	1.03	1.05	1371.7	YES	NO	bd	bb	47.595

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	3.235e4	4.245e4	0.858	0.76	0.77	485.1	YES	NO	db	db	9.568
2	Total-tetrafurans	27.24	8.735e2	1.247e3	0.933	0.70	0.77	14.5	YES	NO	bd	bd	0.249
3	2378-TCDF	25.88	3.277e4	4.402e4	0.876	0.74	0.77	502.2	YES	NO	bb	bb	9.617
4	1368-TCDF	22.36	3.726e4	4.903e4	1.064	0.76	0.77	579.4	YES	NO	bb	bb	8.893
5	Total-pentafurans	30.20	1.837e2	1.243e2	0.866	1.48	1.55	2.4	NO	NO	bb	bb	0.043
6	12378-PeCDF	30.04	2.126e5	1.387e5	0.845	1.53	1.55	1659.1	YES	NO	bb	bb	49.333
7	Total-pentafurans	28.89	3.289e4	2.164e4	0.866	1.52	1.55	257.1	YES	NO	bb	bb	7.545
8	12389-PECDF	32.41	2.153e5	1.414e5	0.844	1.52	1.55	1649.2	YES	NO	bb	bb	50.151
9	Total-pentafurans	31.62	1.344e2	7.833e1	0.866	1.72	1.55	1.9	NO	NO	bb	db	0.029
10	23478-PeCDF	31.37	2.264e5	1.510e5	0.911	1.50	1.55	1816.7	YES	NO	bb	dd	50.186
11	123789-HxCDF	37.01	1.837e5	1.468e5	1.187	1.25	1.24	1773.8	YES	NO	bd	bb	46.993
12	234678-HxCDF	35.99	2.102e5	1.692e5	1.229	1.24	1.24	2096.4	YES	NO	bb	bb	48.593
13	123678-HxCDF	35.13	2.187e5	1.737e5	1.248	1.26	1.24	2142.9	YES	NO	db	db	46.038
14	123478-HxCDF	35.00	2.051e5	1.648e5	1.182	1.24	1.24	2001.9	YES	NO	bd	bd	47.160
15	123468-HXCDF	33.34	2.054e5	1.657e5	1.197	1.24	1.24	1933.1	YES	NO	bb	bb	46.698
16	1234789-HpCDF	41.10	1.540e5	1.505e5	1.165	1.02	1.05	1046.6	YES	NO	bd	bb	47.947
17	1234678-HpCDF	38.85	1.758e5	1.712e5	1.204	1.03	1.05	1371.7	YES	NO	bd	bb	47.595
18	OCDF	45.37	2.270e5	2.535e5	1.186	0.90	0.89	2156.5	YES	NO	bd	bd	88.410
19	13468-PECDF	27.23	2.740e5	1.745e5	1.013	1.57	1.55	6408.0	YES	NO	bb	bb	52.525

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.12	2.843e4	3.757e4	0.975	0.76	0.77	447.1	YES	NO	bb	bb	10.311
2	2378-TCDD	26.52	3.268e4	4.134e4	1.236	0.79	0.77	528.3	YES	NO	bb	bb	9.123
3	Total-tetradioxins	26.20	4.683e4	5.977e4	1.099	0.78	0.77	505.8	YES	NO	bb	bb	14.785
4	Total-tetradioxins	25.70	1.574e4	1.835e4	1.099	0.86	0.77	259.4	YES	NO	bb	bb	4.728
5	Total-tetradioxins	24.82	1.366e3	1.588e3	1.099	0.86	0.77	14.0	YES	NO	bb	db	0.410
6	1368-TCDD	23.64	2.987e4	3.899e4	1.084	0.77	0.77	479.8	YES	NO	bb	bb	9.676

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	28.91	2.811e5	1.811e5	1.837	1.55	1.55	1635.6	YES	NO	bb	bb	46.381
2	12389-PECDD	32.02	2.046e5	1.300e5	1.252	1.57	1.55	1858.7	YES	NO	bb	bb	49.269
3	12378-PeCDD	31.63	1.765e5	1.119e5	1.087	1.58	1.55	1646.9	YES	NO	bb	bb	48.934
4	Total-pentadioxins	30.03	5.772e2	4.005e2	1.392	1.44	1.55	5.3	YES	NO	bb	bb	0.130

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	37.00	4.202e2	2.992e2	1.007	1.40	1.24	6.2	NO	NO	bd	bb	0.108
2	123789-HxCDD	36.60	1.629e5	1.322e5	0.985	1.23	1.24	1843.0	YES	NO	bb	bb	45.437
3	123678-HxCDD	36.22	1.732e5	1.419e5	1.021	1.22	1.24	1958.5	YES	NO	db	db	46.358
4	123478-HxCDD	36.10	1.629e5	1.355e5	0.987	1.20	1.24	1952.5	YES	NO	bd	bd	46.342
5	Total-hexadioxins	35.18	1.270e3	1.070e3	1.007	1.19	1.24	8.9	YES	NO	bb	bb	0.353
6	124679-HXCDD	34.10	1.714e5	1.381e5	1.033	1.24	1.24	1887.9	YES	NO	bb	bb	45.934

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.31	1.602e5	1.563e5	1.286	1.02	1.05	1728.2	YES	NO	bd	bd	48.826
2	1234678-HpCDD	40.35	1.447e5	1.383e5	1.253	1.05	1.05	1452.7	YES	NO	bd	bd	44.839

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.12	2.843e4	3.757e4	0.975	0.76	0.77	447.1	YES	NO	bb	bb	10.311
2	2378-TCDD	26.52	3.268e4	4.134e4	1.236	0.79	0.77	528.3	YES	NO	bb	bb	9.123
3	Total-tetradioxins	26.20	4.683e4	5.977e4	1.099	0.78	0.77	505.8	YES	NO	bb	bb	14.785
4	Total-tetradioxins	25.70	1.574e4	1.835e4	1.099	0.86	0.77	259.4	YES	NO	bb	bb	4.728
5	Total-tetradioxins	24.82	1.366e3	1.588e3	1.099	0.86	0.77	14.0	YES	NO	bb	db	0.410
6	1368-TCDD	23.64	2.987e4	3.899e4	1.084	0.77	0.77	479.8	YES	NO	bb	bb	9.676
7	12479-PECDD	28.91	2.811e5	1.811e5	1.837	1.55	1.55	1635.6	YES	NO	bb	bb	46.381
8	12389-PECDD	32.02	2.046e5	1.300e5	1.252	1.57	1.55	1858.7	YES	NO	bb	bb	49.269
9	12378-PeCDD	31.63	1.765e5	1.119e5	1.087	1.58	1.55	1646.9	YES	NO	bb	bb	48.934
10	Total-pentadioxins	30.03	5.772e2	4.005e2	1.392	1.44	1.55	5.3	YES	NO	bb	bb	0.130
11	Total-hexadioxins	37.00	4.202e2	2.992e2	1.007	1.40	1.24	6.2	NO	NO	bd	bb	0.108
12	123789-HxCDD	36.60	1.629e5	1.322e5	0.985	1.23	1.24	1843.0	YES	NO	bb	bb	45.437
13	123678-HxCDD	36.22	1.732e5	1.419e5	1.021	1.22	1.24	1958.5	YES	NO	db	db	46.358
14	123478-HxCDD	36.10	1.629e5	1.355e5	0.987	1.20	1.24	1952.5	YES	NO	bd	bd	46.342
15	Total-hexadioxins	35.18	1.270e3	1.070e3	1.007	1.19	1.24	8.9	YES	NO	bb	bb	0.353
16	124679-HXCDD	34.10	1.714e5	1.381e5	1.033	1.24	1.24	1887.9	YES	NO	bb	bb	45.934
17	1234679-HPCDD	39.31	1.602e5	1.563e5	1.286	1.02	1.05	1728.2	YES	NO	bd	bd	48.826
18	OCDD	45.12	2.168e5	2.488e5	1.103	0.87	0.89	2303.6	YES	NO	bb	bb	92.154
19	1234678-HpCDD	40.35	1.447e5	1.383e5	1.253	1.05	1.05	1452.7	YES	NO	bd	bd	44.839

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	3.235e4	4.245e4	0.858	0.76	0.77	485.1	YES	NO	db	db	9.568
2	Total-tetrafurans	27.24	8.735e2	1.247e3	0.933	0.70	0.77	14.5	YES	NO	bd	bd	0.249
3	2378-TCDF	25.88	3.277e4	4.402e4	0.876	0.74	0.77	502.2	YES	NO	bb	bb	9.617
4	1368-TCDF	22.36	3.726e4	4.903e4	1.064	0.76	0.77	579.4	YES	NO	bb	bb	8.893
5	Total-pentafurans	30.20	1.837e2	1.243e2	0.866	1.48	1.55	2.4	NO	NO	bb	bb	0.043
6	12378-PeCDF	30.04	2.126e5	1.387e5	0.845	1.53	1.55	1659.1	YES	NO	bb	bb	49.333
7	Total-pentafurans	28.89	3.289e4	2.164e4	0.866	1.52	1.55	257.1	YES	NO	bb	bb	7.545
8	12389-PECDF	32.41	2.153e5	1.414e5	0.844	1.52	1.55	1649.2	YES	NO	bb	bb	50.151
9	Total-pentafurans	31.62	1.344e2	7.833e1	0.866	1.72	1.55	1.9	NO	NO	bb	db	0.029
10	23478-PeCDF	31.37	2.264e5	1.510e5	0.911	1.50	1.55	1816.7	YES	NO	bb	dd	50.186
11	123789-HxCDF	37.01	1.837e5	1.468e5	1.187	1.25	1.24	1773.8	YES	NO	bd	bb	46.993
12	234678-HxCDF	35.99	2.102e5	1.692e5	1.229	1.24	1.24	2096.4	YES	NO	bb	bb	48.593
13	123678-HxCDF	35.13	2.187e5	1.737e5	1.248	1.26	1.24	2142.9	YES	NO	db	db	46.038
14	123478-HxCDF	35.00	2.051e5	1.648e5	1.182	1.24	1.24	2001.9	YES	NO	bd	bd	47.160
15	123468-HXCDF	33.34	2.054e5	1.657e5	1.197	1.24	1.24	1933.1	YES	NO	bb	bb	46.698
16	1234789-HpCDF	41.10	1.540e5	1.505e5	1.165	1.02	1.05	1046.6	YES	NO	bd	bb	47.947
17	1234678-HpCDF	38.85	1.758e5	1.712e5	1.204	1.03	1.05	1371.7	YES	NO	bd	bb	47.595
18	OCDF	45.37	2.270e5	2.535e5	1.186	0.90	0.89	2156.5	YES	NO	bd	bd	88.410
19	13468-PECDF	27.23	2.740e5	1.745e5	1.013	1.57	1.55	6408.0	YES	NO	bb	bb	52.525
20	1289-TCDD	27.12	2.843e4	3.757e4	0.975	0.76	0.77	447.1	YES	NO	bb	bb	10.311
21	2378-TCDD	26.52	3.268e4	4.134e4	1.236	0.79	0.77	528.3	YES	NO	bb	bb	9.123
22	Total-tetradioxins	26.20	4.683e4	5.977e4	1.099	0.78	0.77	505.8	YES	NO	bb	bb	14.785
23	Total-tetradioxins	25.70	1.574e4	1.835e4	1.099	0.86	0.77	259.4	YES	NO	bb	bb	4.728
24	Total-tetradioxins	24.82	1.366e3	1.588e3	1.099	0.86	0.77	14.0	YES	NO	bb	db	0.410
25	1368-TCDD	23.64	2.987e4	3.899e4	1.084	0.77	0.77	479.8	YES	NO	bb	bb	9.676
26	12479-PECDD	28.91	2.811e5	1.811e5	1.837	1.55	1.55	1635.6	YES	NO	bb	bb	46.381
27	12389-PECDD	32.02	2.046e5	1.300e5	1.252	1.57	1.55	1858.7	YES	NO	bb	bb	49.269
28	12378-PeCDD	31.63	1.765e5	1.119e5	1.087	1.58	1.55	1646.9	YES	NO	bb	bb	48.934
29	Total-pentadioxins	30.03	5.772e2	4.005e2	1.392	1.44	1.55	5.3	YES	NO	bb	bb	0.130
30	Total-hexadioxins	37.00	4.202e2	2.992e2	1.007	1.40	1.24	6.2	NO	NO	bd	bb	0.108
31	123789-HxCDD	36.60	1.629e5	1.322e5	0.985	1.23	1.24	1843.0	YES	NO	bb	bb	45.437
32	123678-HxCDD	36.22	1.732e5	1.419e5	1.021	1.22	1.24	1958.5	YES	NO	db	db	46.358
33	123478-HxCDD	36.10	1.629e5	1.355e5	0.987	1.20	1.24	1952.5	YES	NO	bd	bd	46.342
34	Total-hexadioxins	35.18	1.270e3	1.070e3	1.007	1.19	1.24	8.9	YES	NO	bb	bb	0.353
35	124679-HXCDD	34.10	1.714e5	1.381e5	1.033	1.24	1.24	1887.9	YES	NO	bb	bb	45.934
36	1234679-HPCDD	39.31	1.602e5	1.563e5	1.286	1.02	1.05	1728.2	YES	NO	bd	bd	48.826
37	OCDD	45.12	2.168e5	2.488e5	1.103	0.87	0.89	2303.6	YES	NO	bb	bb	92.154

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1234678-HpCDD	40.35	1.447e5	1.383e5	1.253	1.05	1.05	1452.7	YES	NO	bd	bd	44.839

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.33	2.530e6					63.5	YES		dd		
2	FUNCTION1 PFK	21.24	1.625e6					65.1	YES		dd		
3	FUNCTION1 PFK	21.12	3.427e6					68.9	YES		bd		
4	FUNCTION1 PFK	24.48	1.219e4					1.0	NO		bb		
5	FUNCTION1 PFK	24.40	5.763e3					0.6	NO		db		
6	FUNCTION1 PFK	24.34	1.485e4					0.9	NO		bd		
7	FUNCTION1 PFK	24.07	1.997e3					0.4	NO		bb		
8	FUNCTION1 PFK	24.01	8.789e3					0.6	NO		bb		
9	FUNCTION1 PFK	23.90	1.739e3					0.3	NO		bb		
10	FUNCTION1 PFK	23.84	4.102e3					0.5	NO		bb		
11	FUNCTION1 PFK	23.57	9.271e3					1.0	NO		db		
12	FUNCTION1 PFK	23.51	3.033e3					0.5	NO		bd		
13	FUNCTION1 PFK	23.24	1.986e4					1.9	NO		db		
14	FUNCTION1 PFK	23.04	3.743e5					8.4	YES		dd		
15	FUNCTION1 PFK	22.93	7.072e5					11.8	YES		dd		
16	FUNCTION1 PFK	22.75	3.265e6					16.9	YES		dd		
17	FUNCTION1 PFK	22.12	1.193e7					37.3	YES		dd		
18	FUNCTION1 PFK	21.48	1.464e6					58.0	YES		dd		
19	FUNCTION1 PFK	21.42	9.162e5					60.2	YES		dd		
20	FUNCTION1 PFK	28.12	6.661e3					0.7	NO		bb		
21	FUNCTION1 PFK	27.97	6.503e3					0.7	NO		bb		
22	FUNCTION1 PFK	27.79	3.007e4					1.6	NO		db		
23	FUNCTION1 PFK	27.68	3.765e4					1.8	NO		bd		
24	FUNCTION1 PFK	26.70	1.853e3					0.4	NO		bb		
25	FUNCTION1 PFK	26.64	2.047e4					1.7	NO		bb		
26	FUNCTION1 PFK	26.37	3.952e4					1.7	NO		bb		
27	FUNCTION1 PFK	25.64	3.424e4					1.6	NO		bb		
28	FUNCTION1 PFK	25.52	3.273e4					1.8	NO		bb		
29	FUNCTION1 PFK	24.93	2.188e4					1.2	NO		bb		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.54	6.100e3					1.7	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.23	7.650e6					24.0	YES		bb		0.000
2	FUNCTION3 PFK	35.86	7.327e6					29.4	YES		db		0.000
3	FUNCTION3 PFK	35.31	1.794e6					8.7	YES		bd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	41.37	1.192e4					2.1	NO		bb		
2	FUNCTION4 PFK	38.11	3.488e4					4.2	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.25	3.569e3					1.2	NO		bb		
2	FUNCTION5 PFK	44.90	1.693e3					0.7	NO		bb		
3	FUNCTION5 PFK	44.55	4.986e2					0.4	NO		bb		
4	FUNCTION5 PFK	44.52	5.077e2					0.4	NO		bb		
5	FUNCTION5 PFK	44.22	6.053e3					1.9	NO		bb		
6	FUNCTION5 PFK	43.81	5.436e3					1.8	NO		bb		
7	FUNCTION5 PFK	43.45	6.358e3					1.8	NO		bb		
8	FUNCTION5 PFK	43.33	2.798e3					1.1	NO		bb		
9	FUNCTION5 PFK	43.26	5.509e3					1.7	NO		db		
10	FUNCTION5 PFK	43.20	1.679e4					3.1	YES		dd		
11	FUNCTION5 PFK	43.16	1.257e4					2.8	NO		dd		
12	FUNCTION5 PFK	43.10	1.315e4					2.9	NO		bd		
13	FUNCTION5 PFK	46.32	2.108e3					0.9	NO		bb		
14	FUNCTION5 PFK	46.15	6.073e3					1.7	NO		bb		
15	FUNCTION5 PFK	46.07	1.512e3					0.6	NO		bb		
16	FUNCTION5 PFK	46.02	6.816e3					2.0	NO		bb		
17	FUNCTION5 PFK	45.90	3.598e3					1.4	NO		bb		
18	FUNCTION5 PFK	45.50	2.526e3					1.1	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	28.07	8.633e1					2.0	NO		bb		0.000
2	FUNCTION1 HXCD...	27.74	7.273e1					1.9	NO		bb		0.000
3	FUNCTION1 HXCD...	25.69	1.174e2					2.0	NO		bb		0.000
4	FUNCTION1 HXCD...	25.49	8.520e1					2.3	NO		db		0.000
5	FUNCTION1 HXCD...	25.34	2.267e2					3.7	YES		bd		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	25.13	2.100e2					3.7	YES		db		0.000
2	FUNCTION1 HPCD...	25.07	1.118e2					2.5	NO		bd		0.000
3	FUNCTION1 HPCD...	24.14	2.140e2					2.0	NO		bb		0.000
4	FUNCTION1 HPCD...	27.98	8.133e1					2.2	NO		bb		0.000
5	FUNCTION1 HPCD...	25.73	9.158e1					2.0	NO		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.00	8.282e1					1.8	NO		db		0.000
2	FUNCTION2 HPCD...	31.90	9.867e1					1.7	NO		bd		0.000
3	FUNCTION2 HPCD...	31.23	1.975e2					3.1	YES		bb		0.000
4	FUNCTION2 HPCD...	28.58	9.713e1					1.1	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.22	8.572e1					2.1	NO		bb		0.000
2	FUNCTION3 OCDPE	36.11	1.412e2					3.1	YES		bb		0.000
3	FUNCTION3 OCDPE	35.13	7.623e1					1.9	NO		db		0.000
4	FUNCTION3 OCDPE	34.95	1.480e2					1.8	NO		bd		0.000
5	FUNCTION3 OCDPE	33.69	7.811e1					1.8	NO		bb		0.000

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ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.28	8.155e1					1.8	NO		bb		0.000
2	FUNCTION4 NCDPE	38.08	7.046e1					0.8	NO		bb		0.000
3	FUNCTION4 NCDPE	41.19	1.073e2					2.6	NO		db		0.000
4	FUNCTION4 NCDPE	41.16	1.095e2					2.6	NO		bd		0.000
5	FUNCTION4 NCDPE	40.93	9.659e1					2.4	NO		db		0.000
6	FUNCTION4 NCDPE	40.86	1.035e2					2.1	NO		bd		0.000
7	FUNCTION4 NCDPE	39.51	8.718e1					1.2	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.46	7.441e1					2.3	NO		bb		0.000

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Printed: Wednesday, February 08, 2023 09:30:36 Pacific Standard Time

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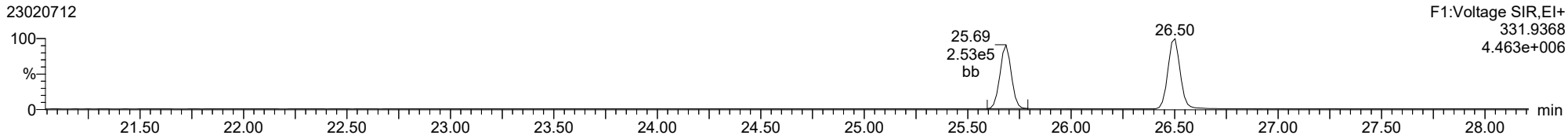
ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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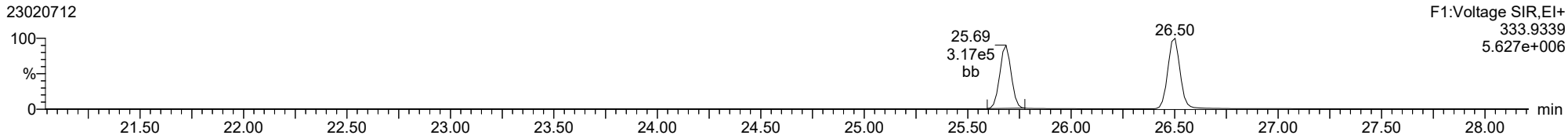
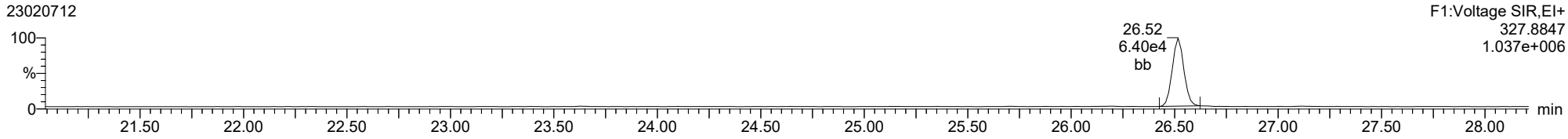


37CL-2378-TCDD



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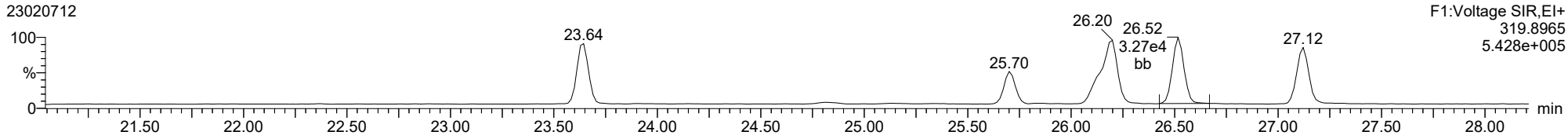
2378-TCDD



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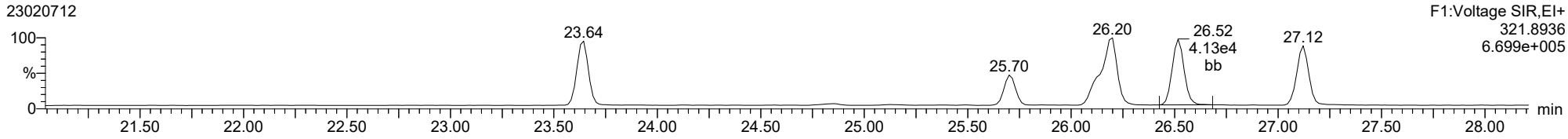

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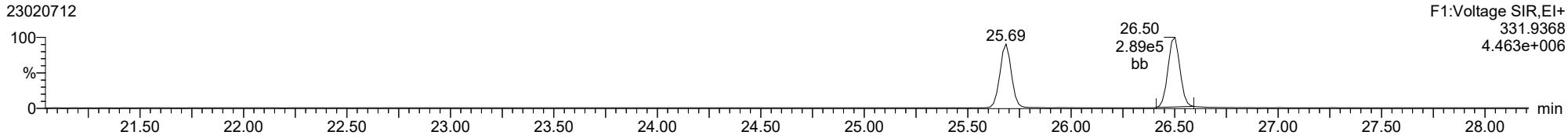

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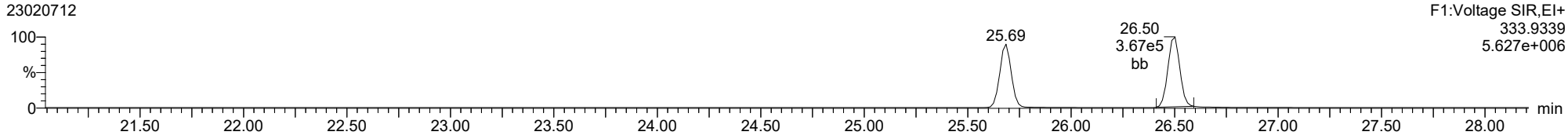

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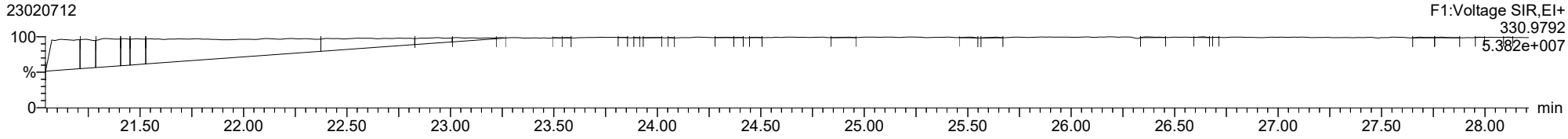

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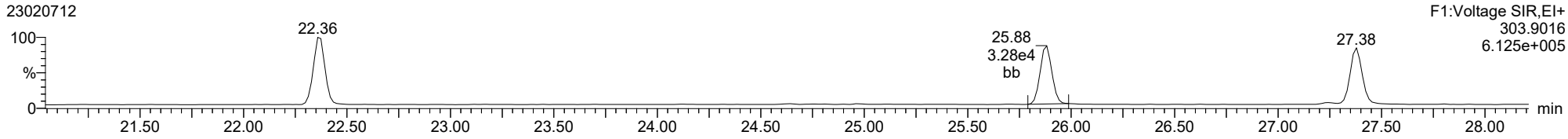

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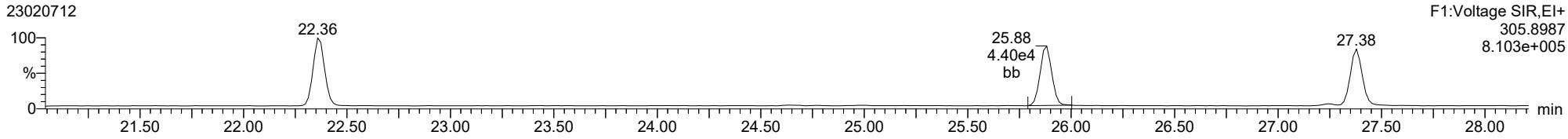

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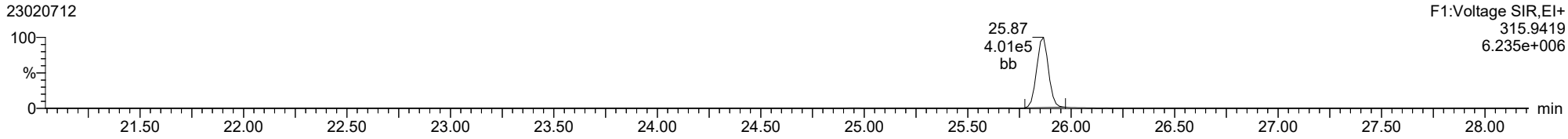

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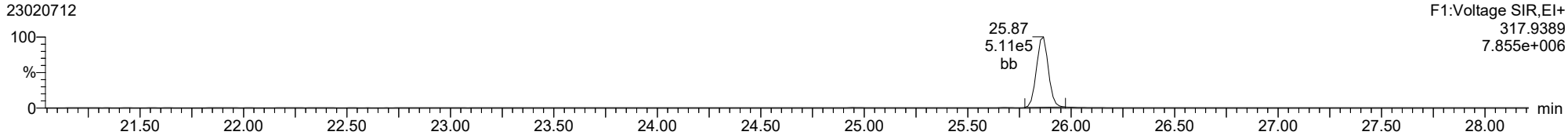

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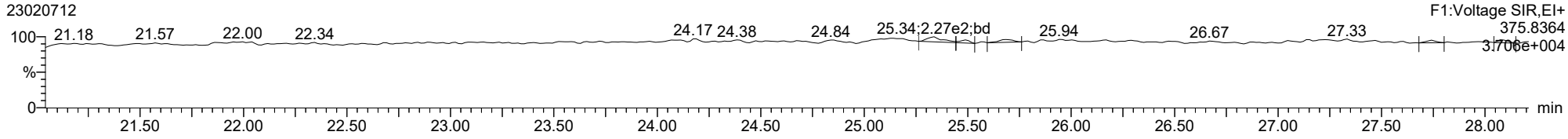

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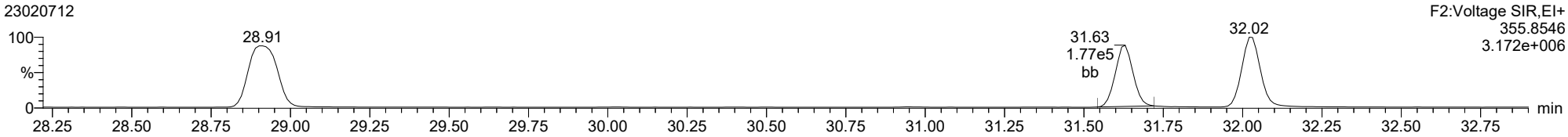
12378-PeCDD



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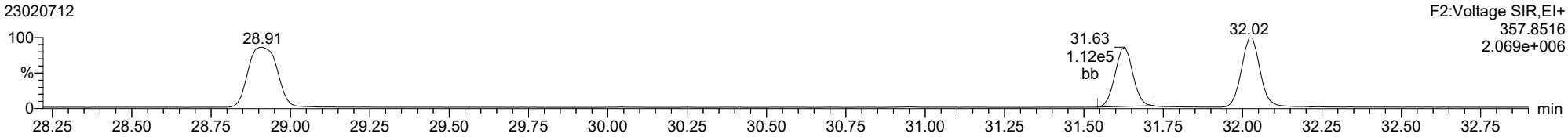

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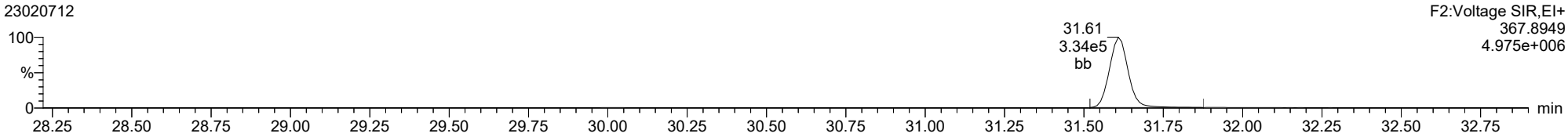

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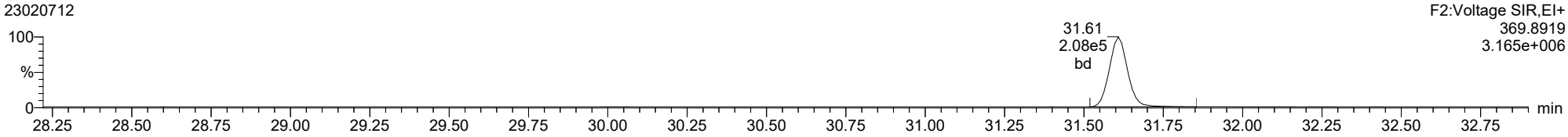

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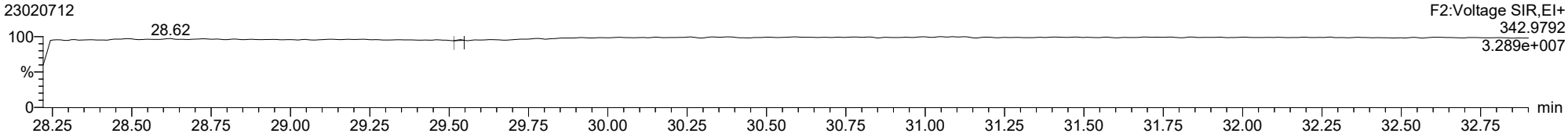

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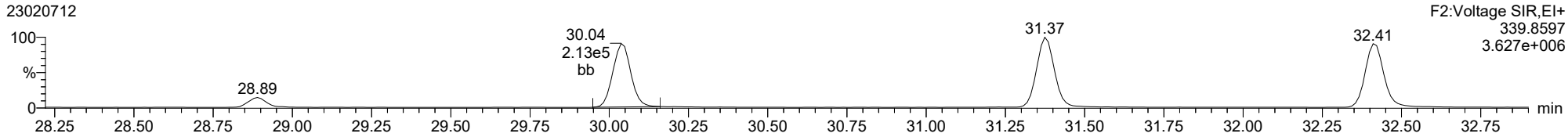

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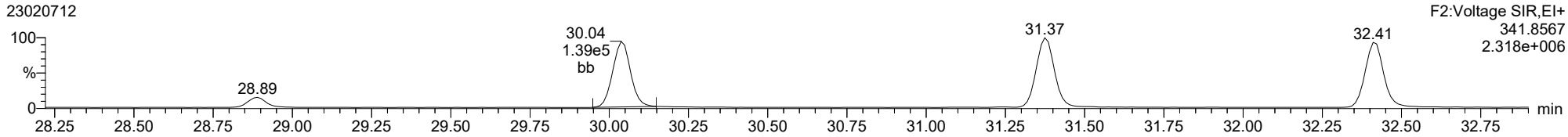

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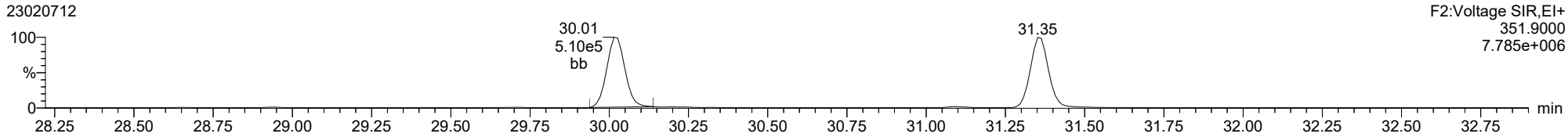

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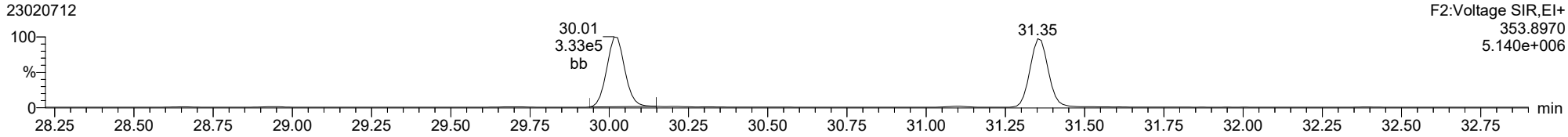

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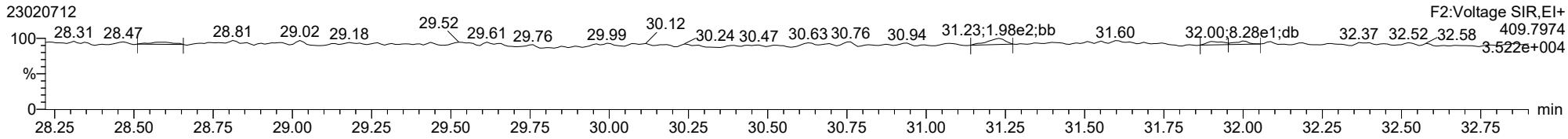

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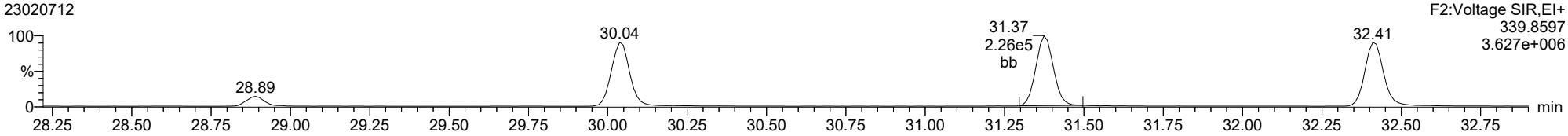

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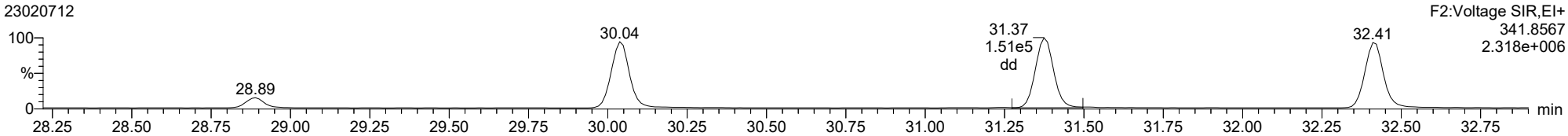

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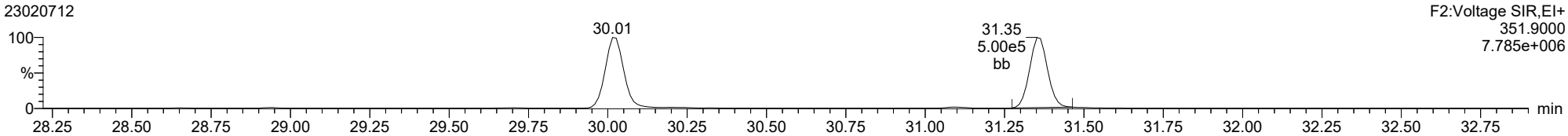

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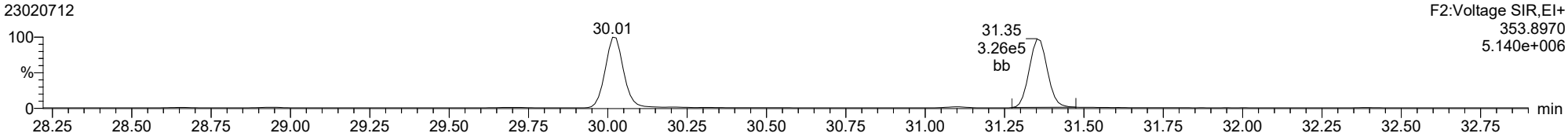

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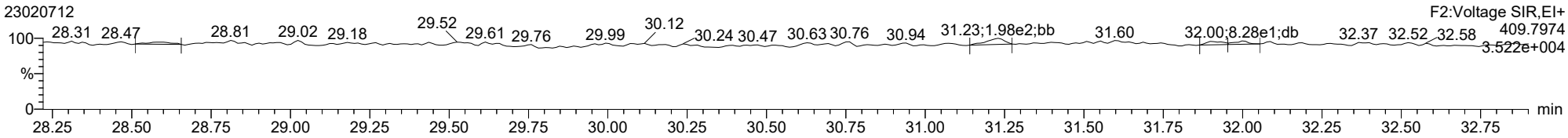

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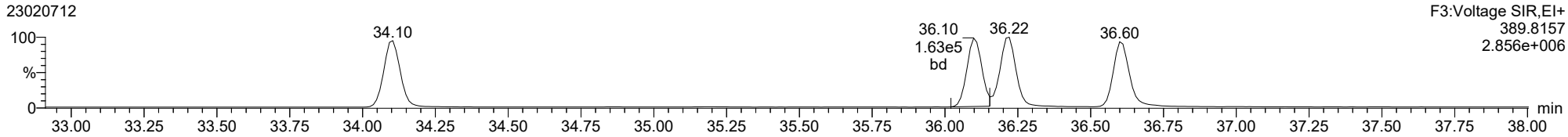

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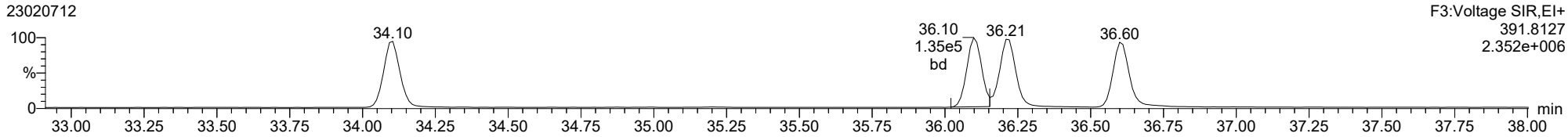

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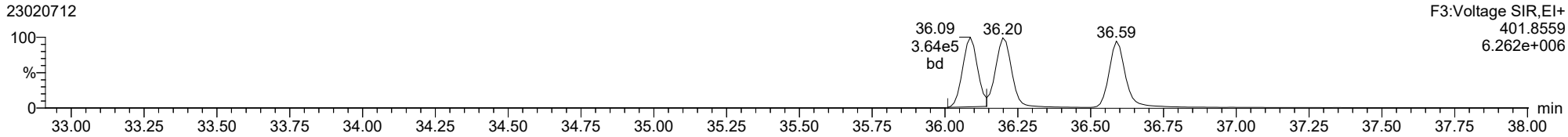

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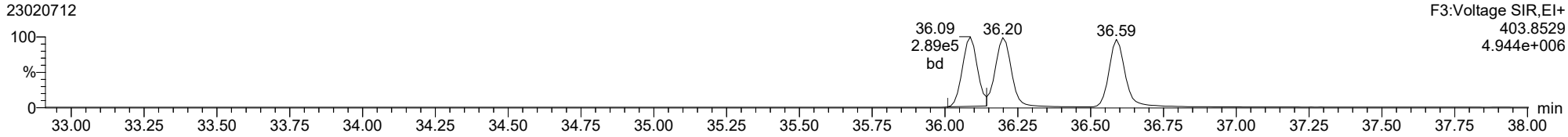

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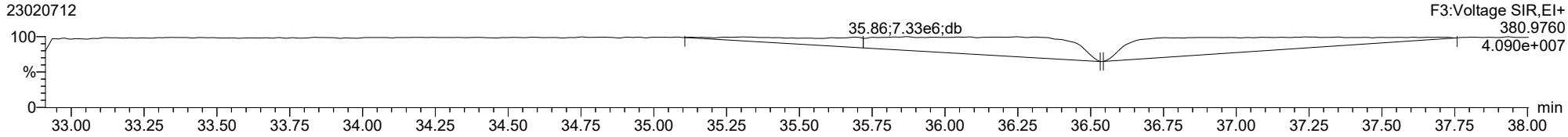

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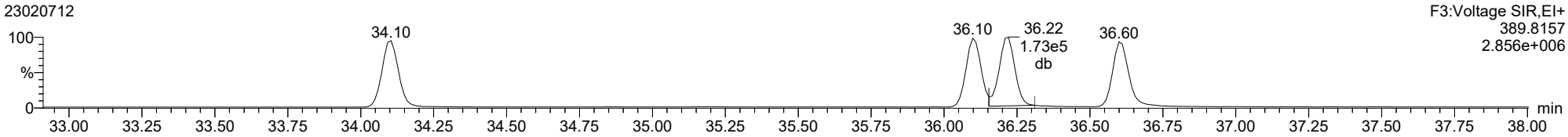

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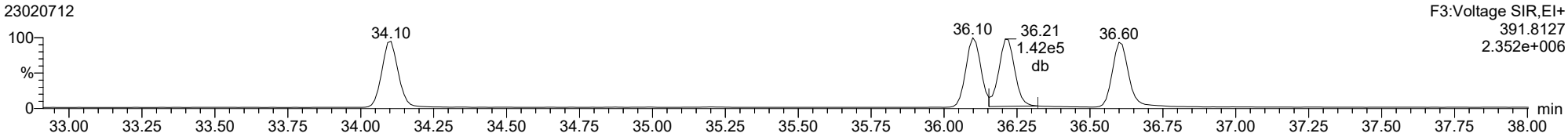

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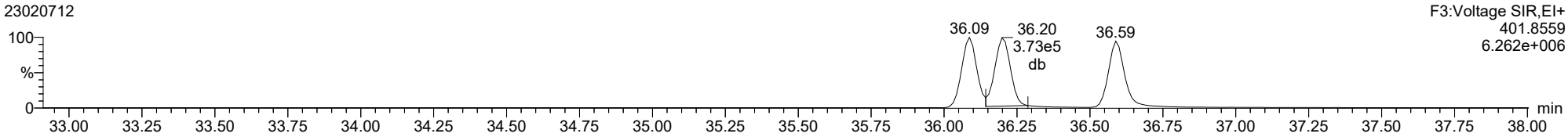

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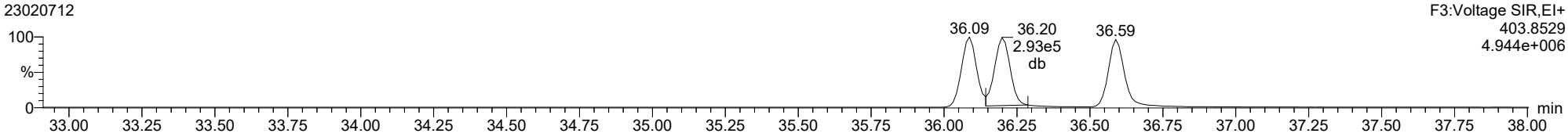

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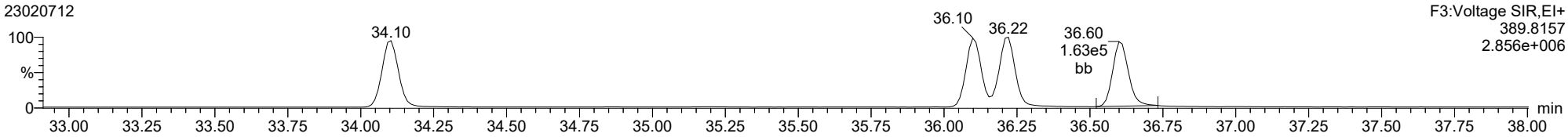
123789-HxCDD



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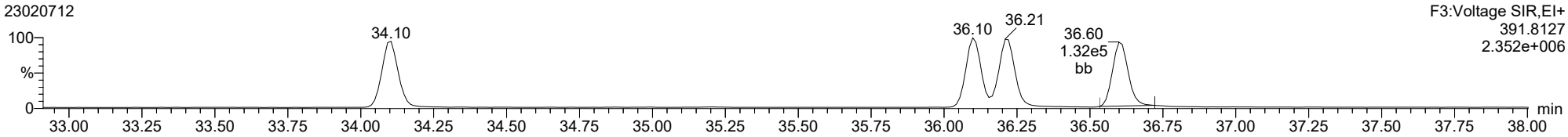

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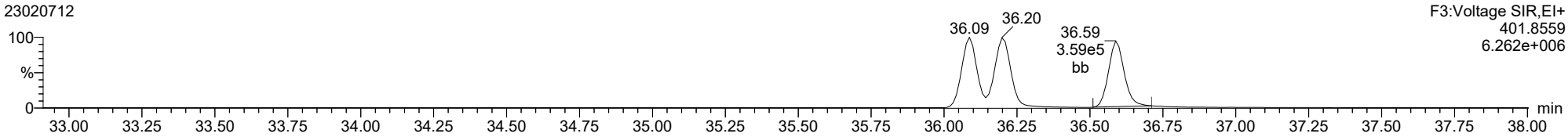

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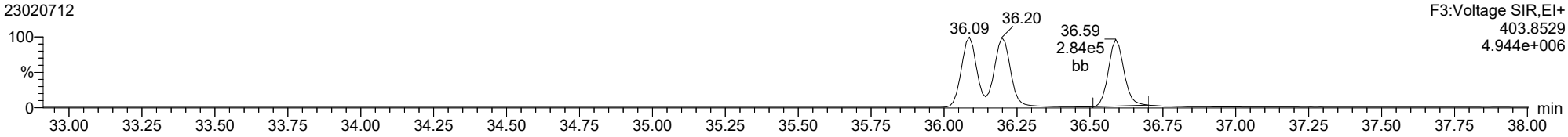

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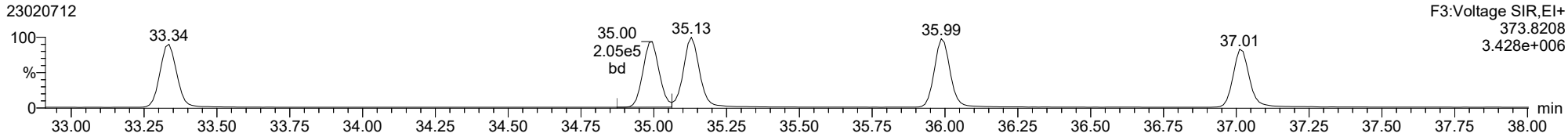

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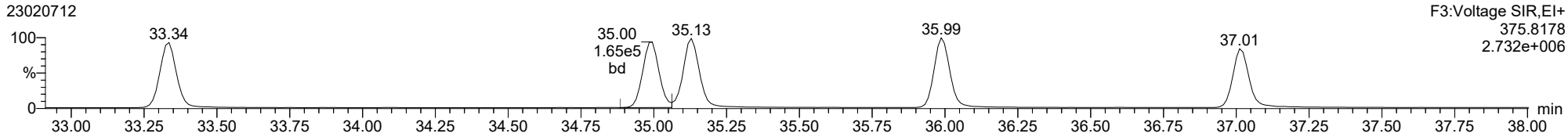

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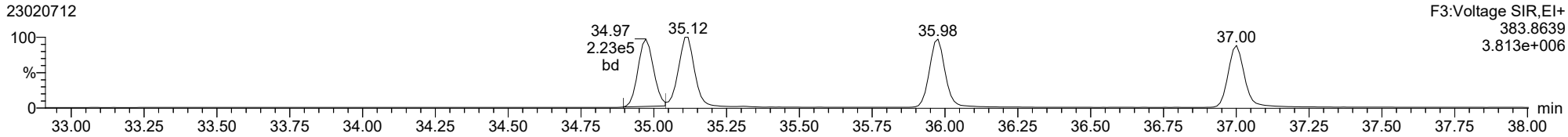

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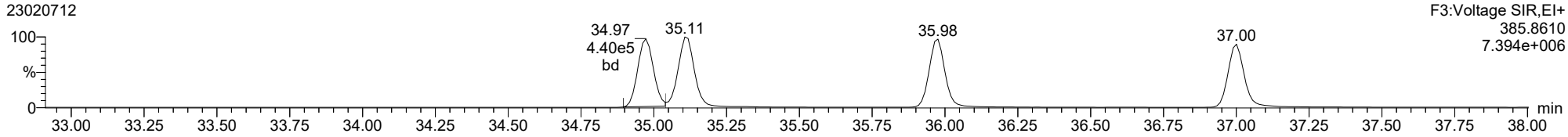
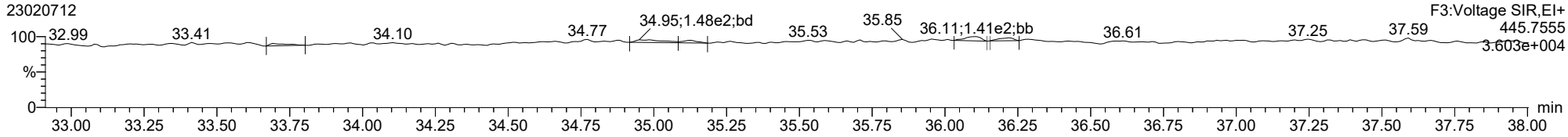


FUNCTION3 OCDPE



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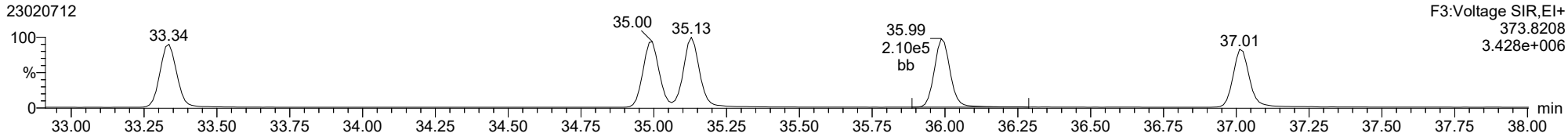

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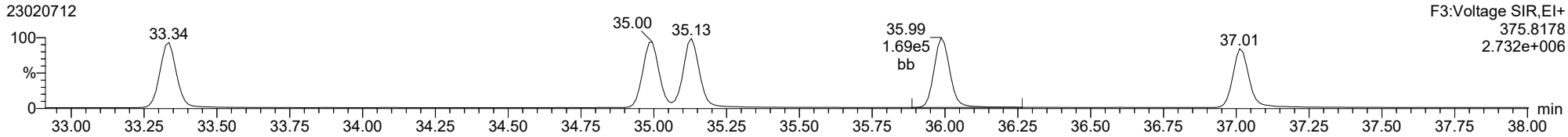

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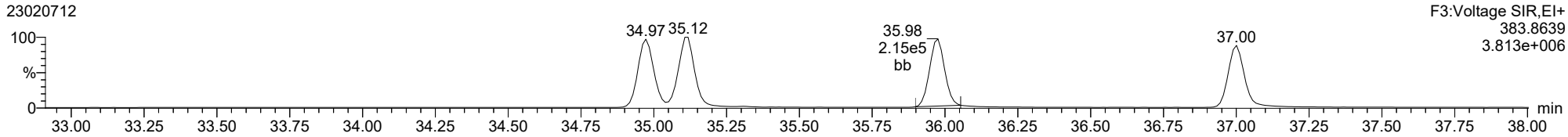

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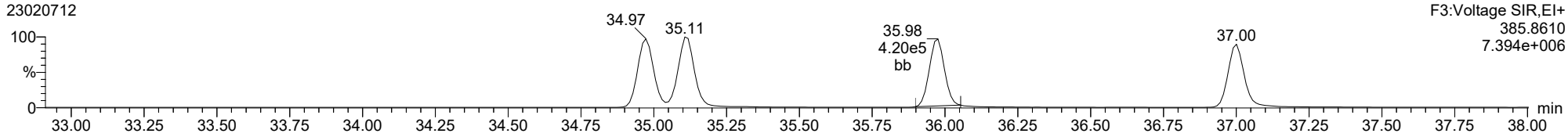

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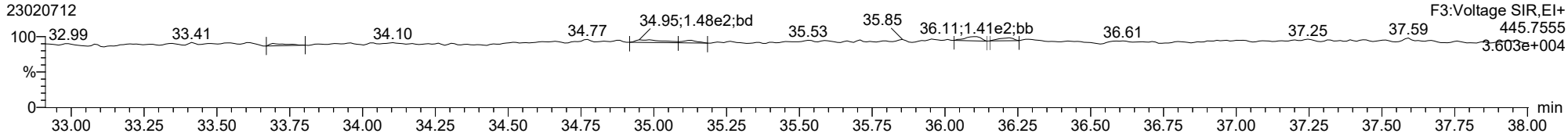

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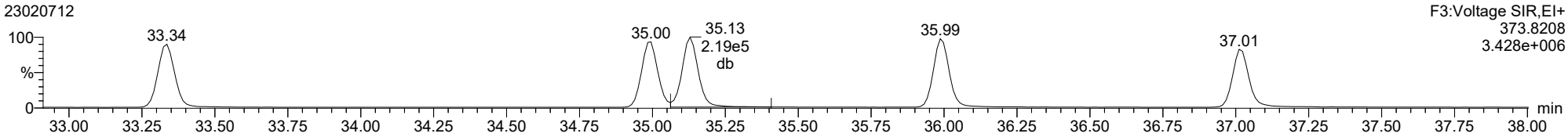

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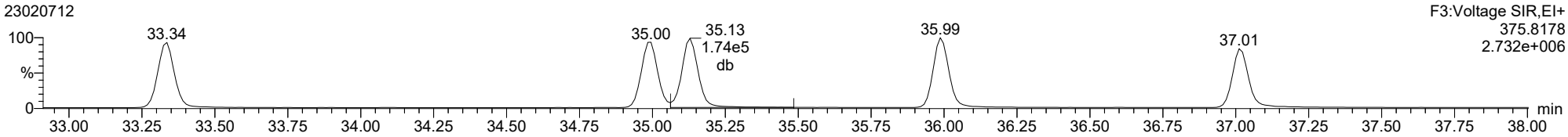

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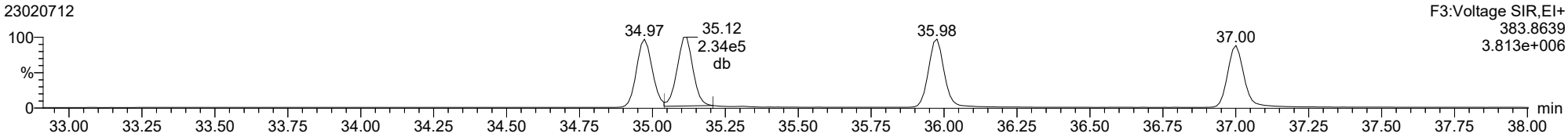

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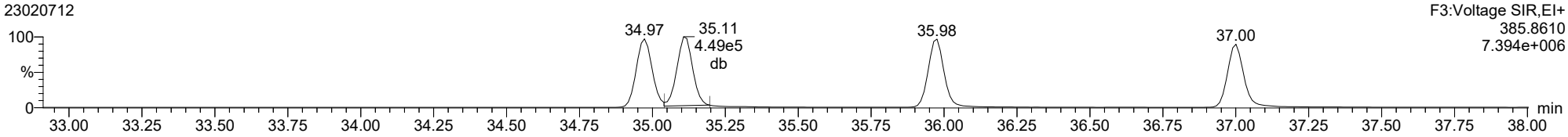

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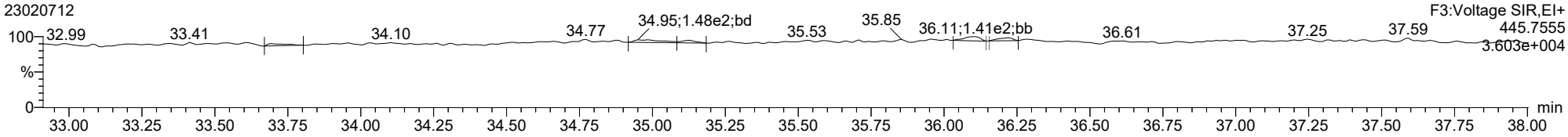

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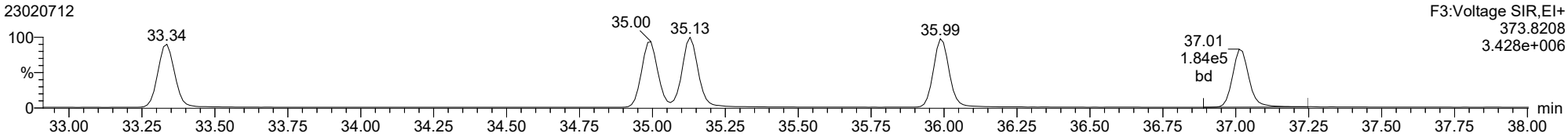

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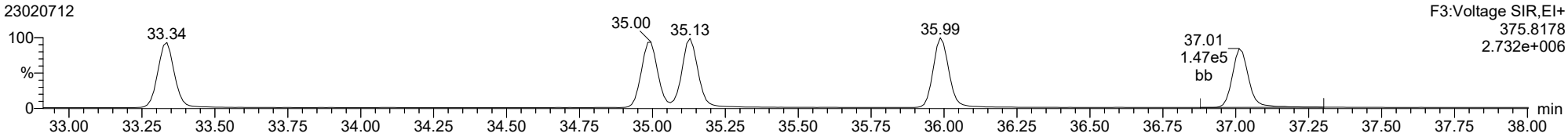

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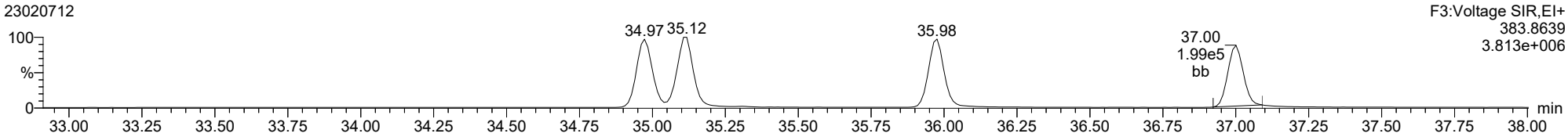

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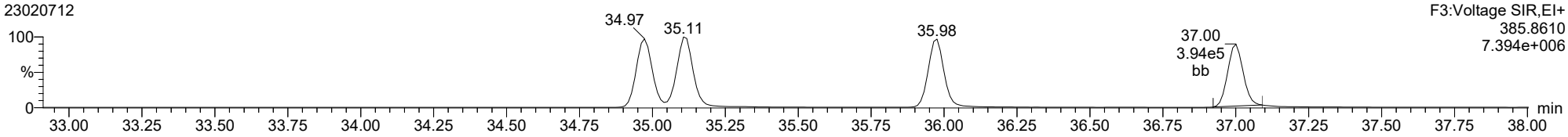

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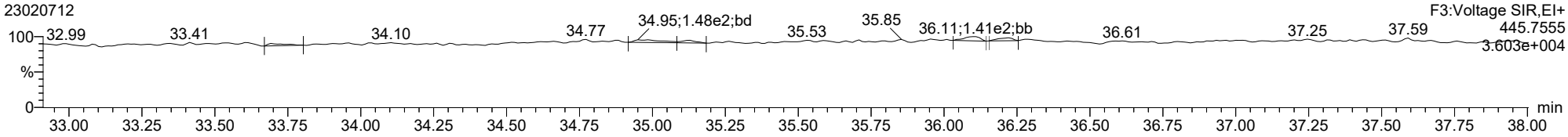

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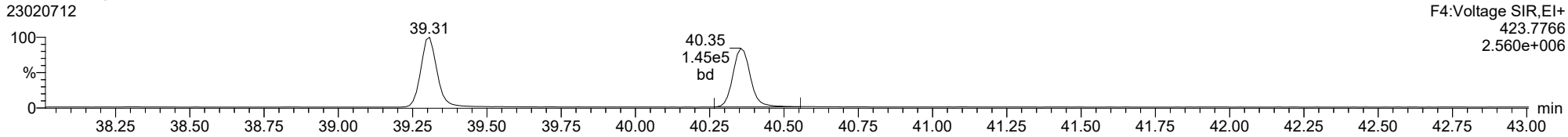

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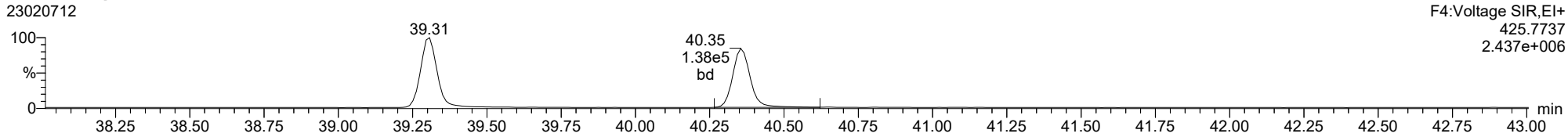

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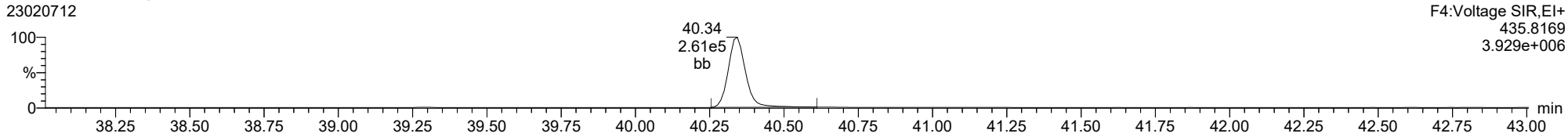

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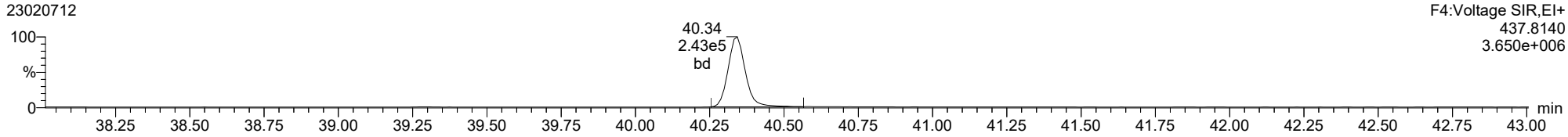

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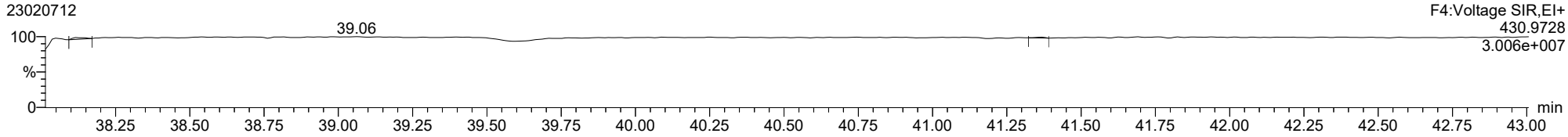

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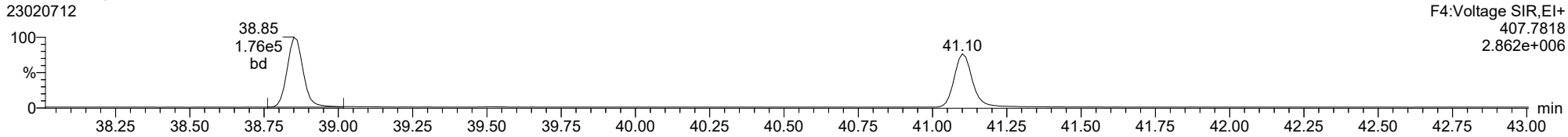

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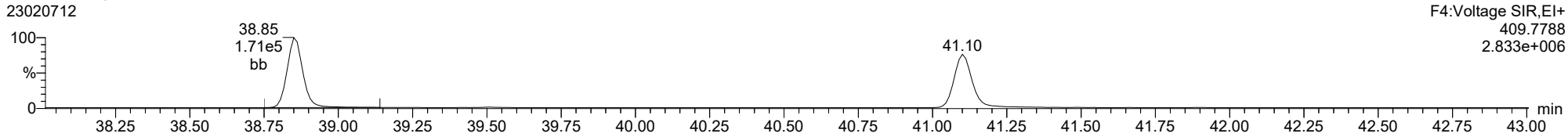

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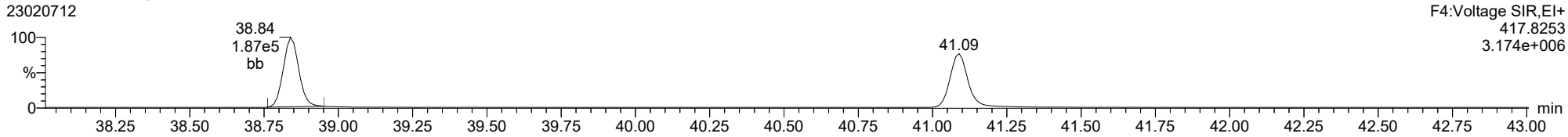

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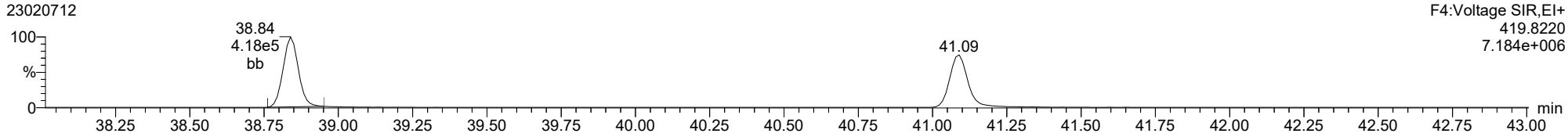

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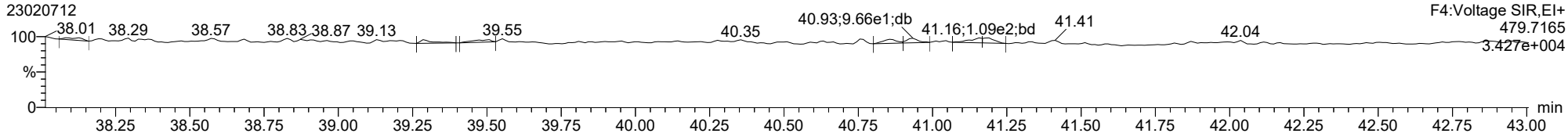

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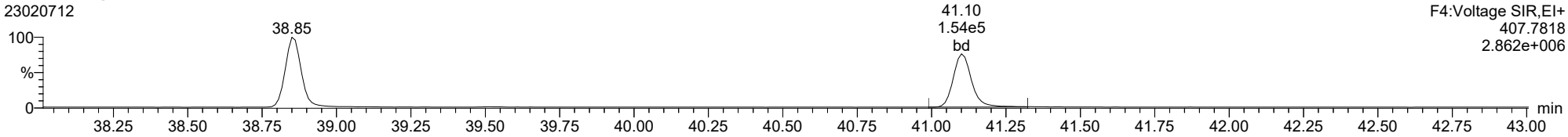

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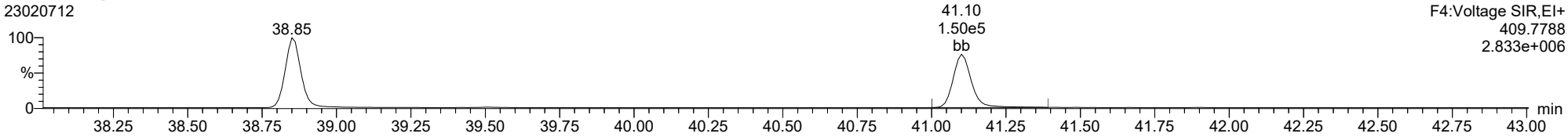

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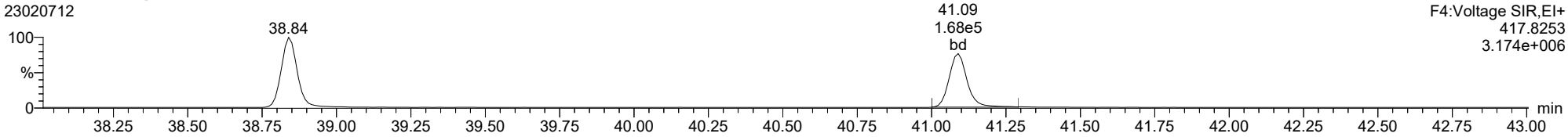

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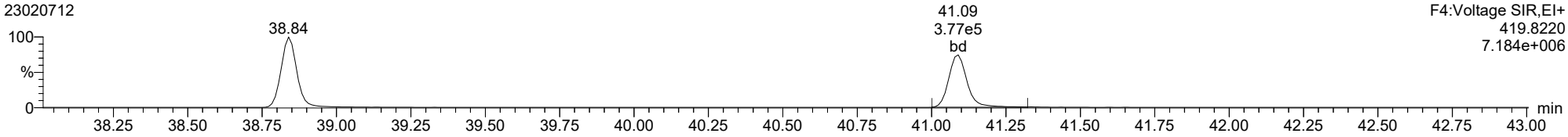

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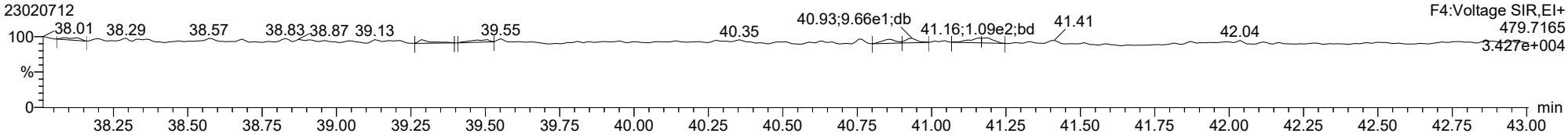

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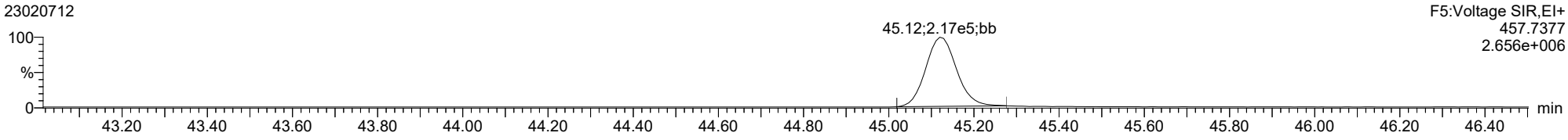

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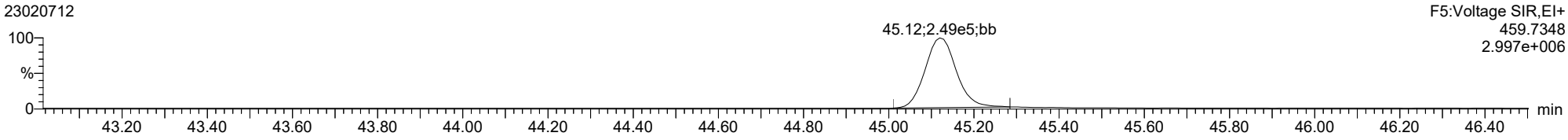

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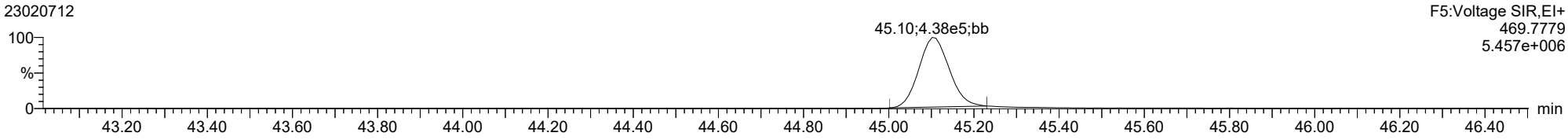

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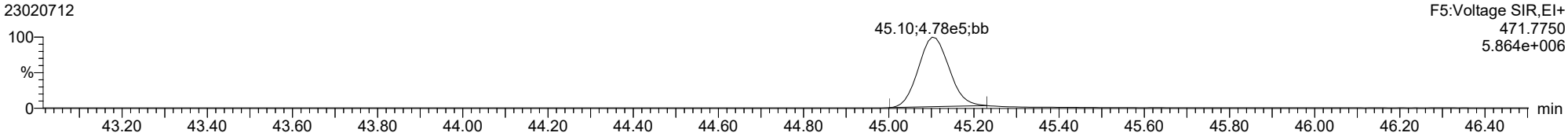

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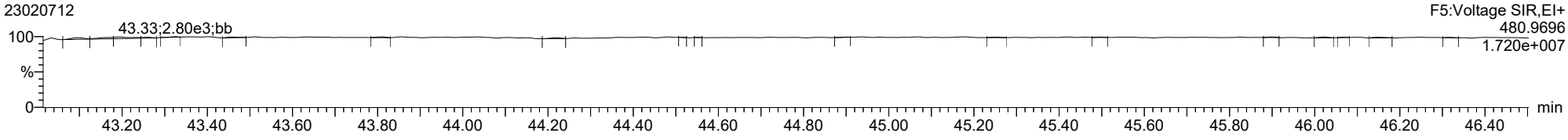

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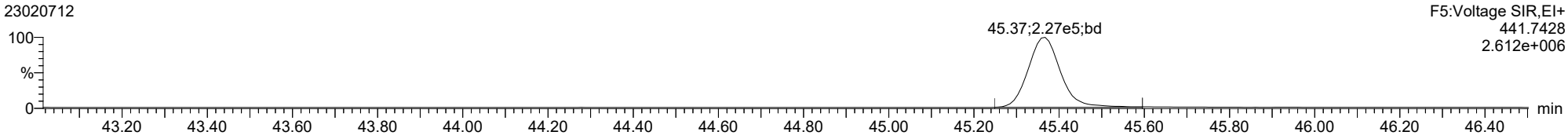

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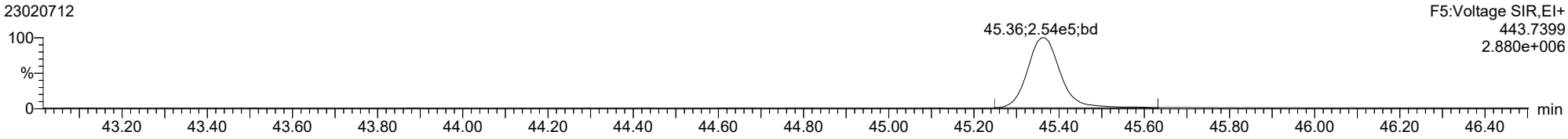

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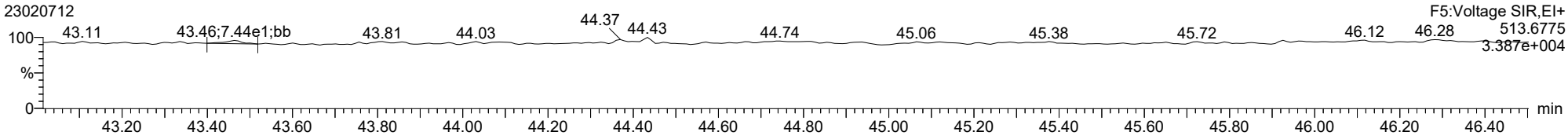

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Printed: Wednesday, February 08, 2023 09:30:36 Pacific Standard Time

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

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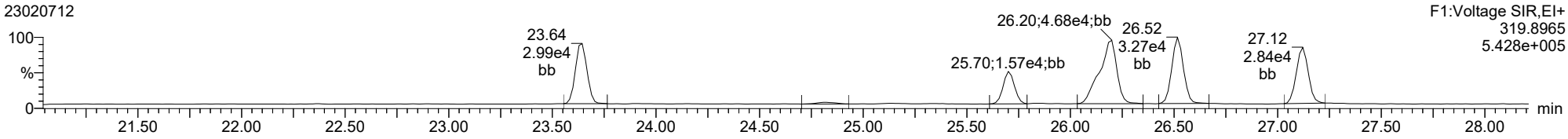

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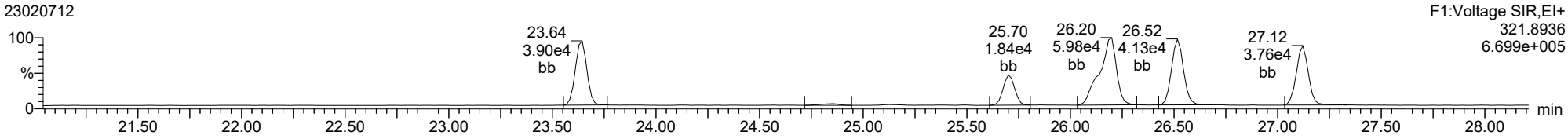

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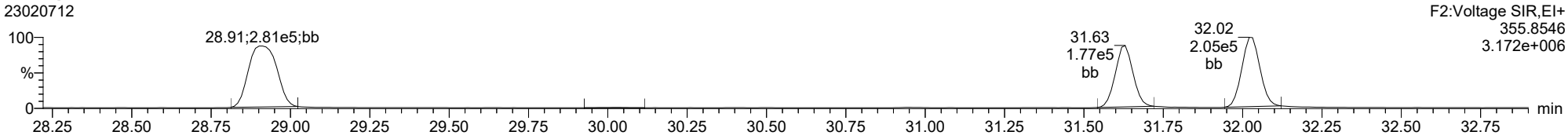

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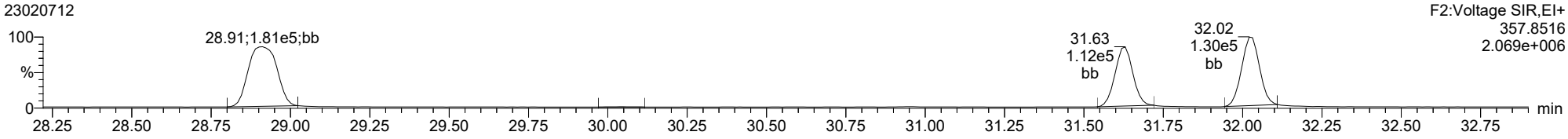

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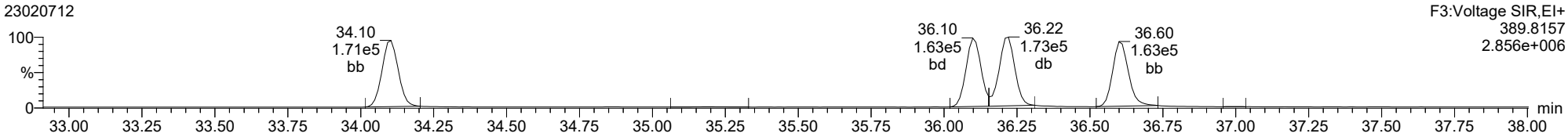

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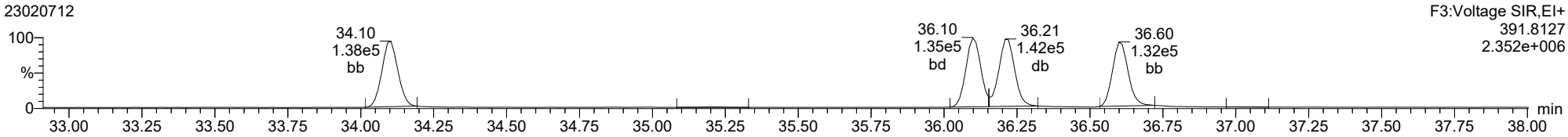

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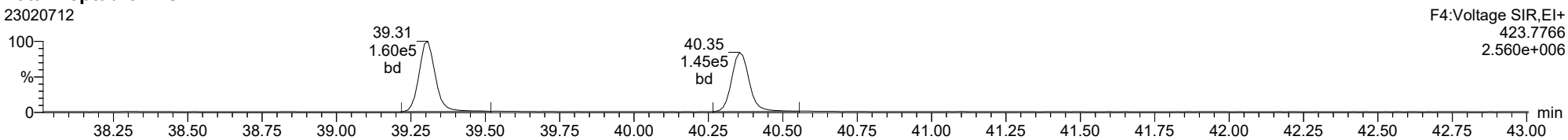

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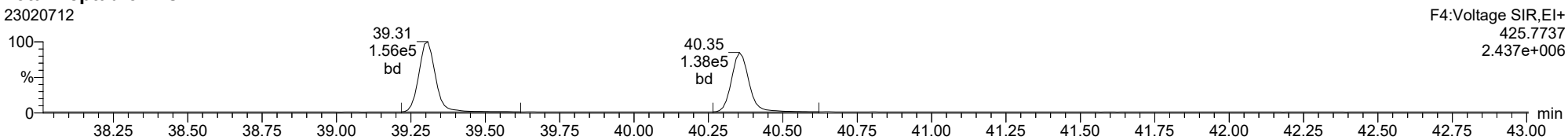

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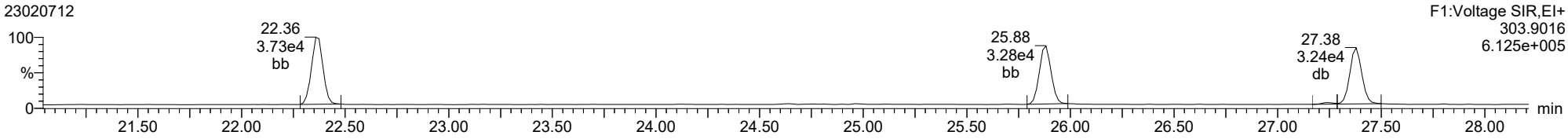
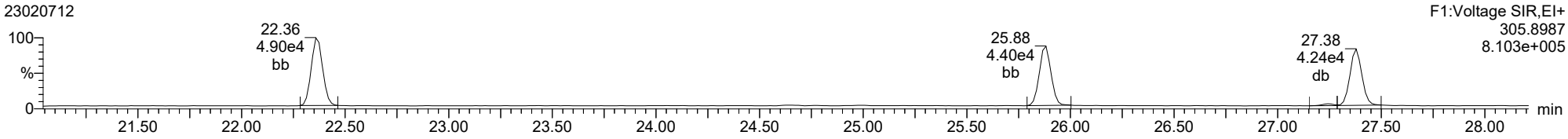
Total-tetrafurans



Total-tetrafurans



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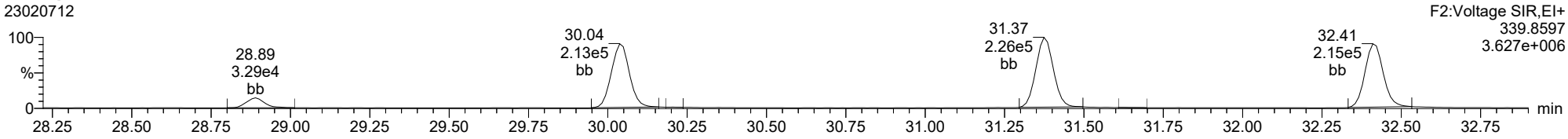

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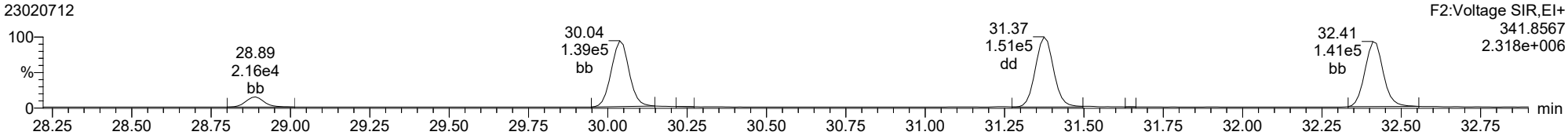

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Printed: Wednesday, February 08, 2023 09:30:36 Pacific Standard Time

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

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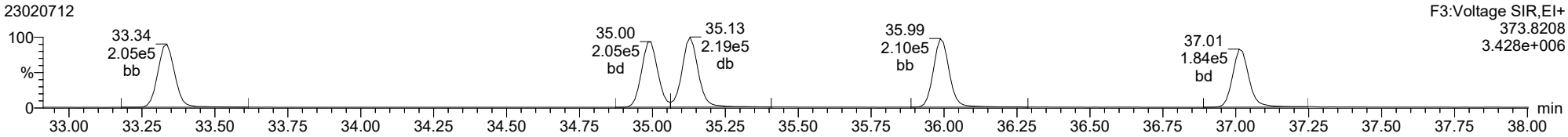

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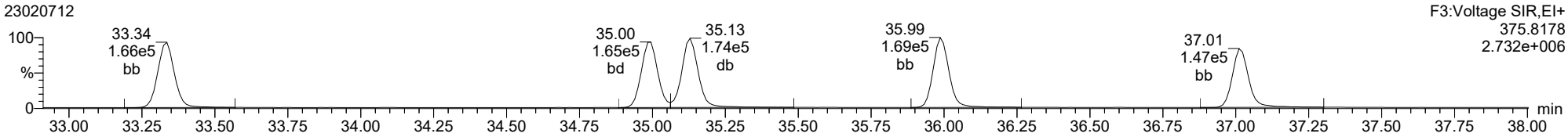

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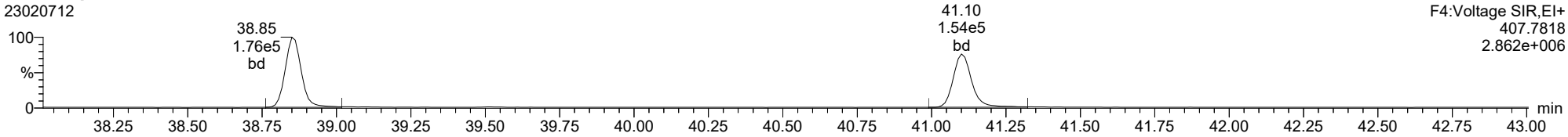

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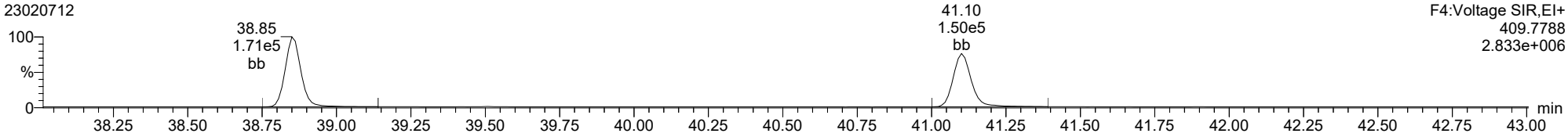

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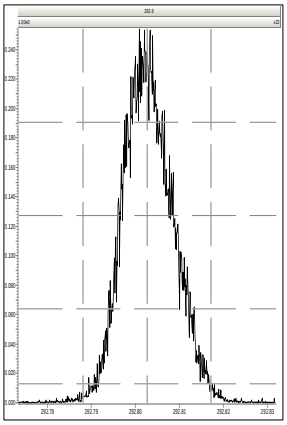
M 292.9824 R 11573



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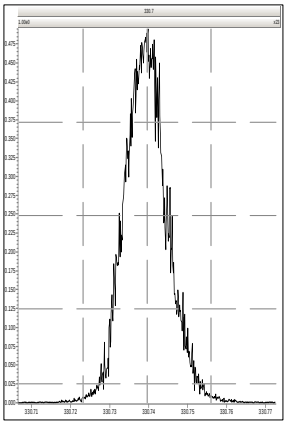
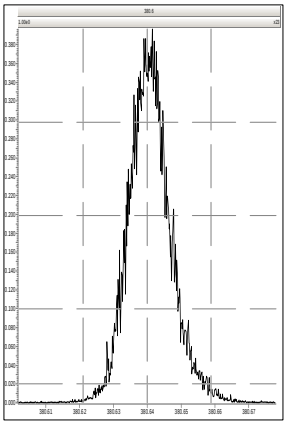


M 380.9760 R 13333



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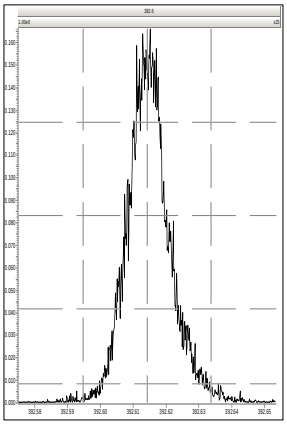

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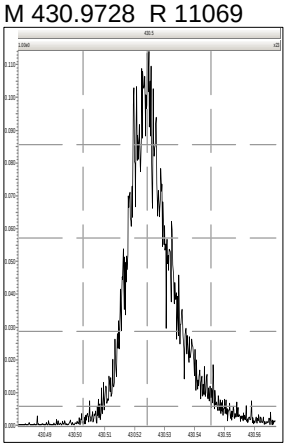

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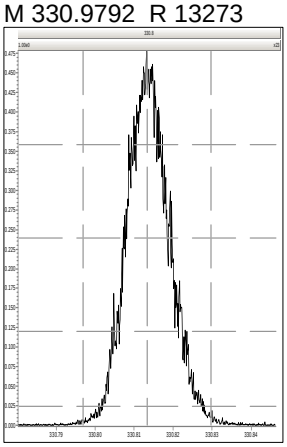

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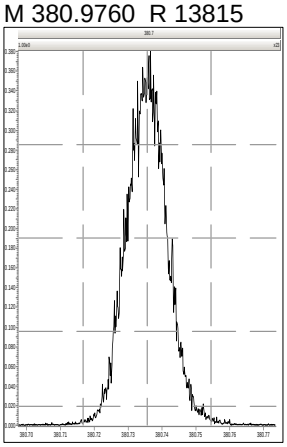

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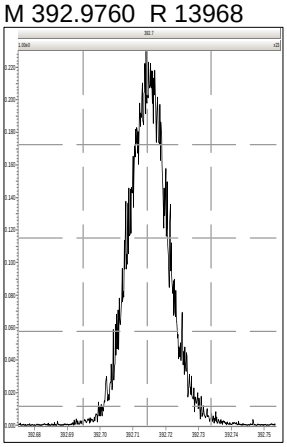

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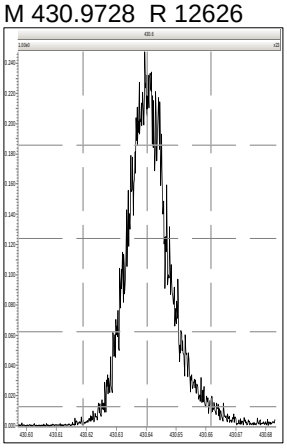

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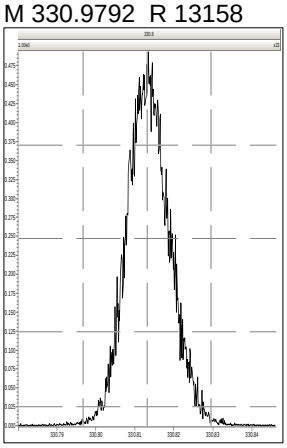

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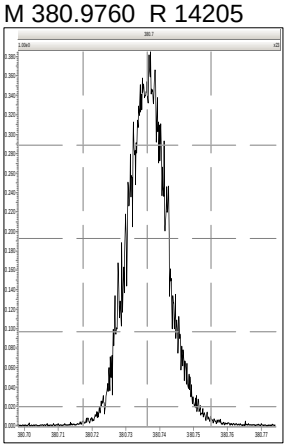

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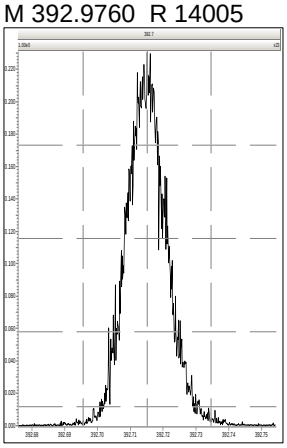

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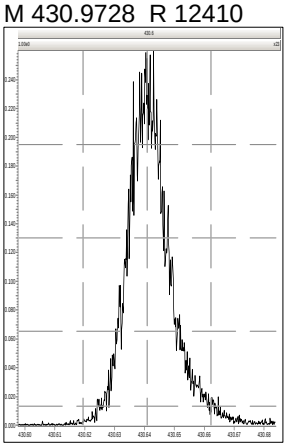

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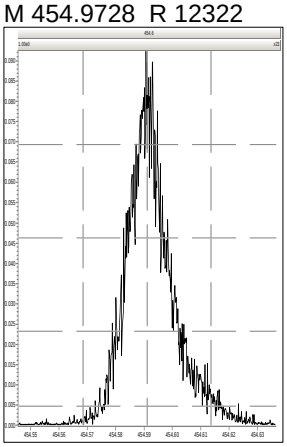

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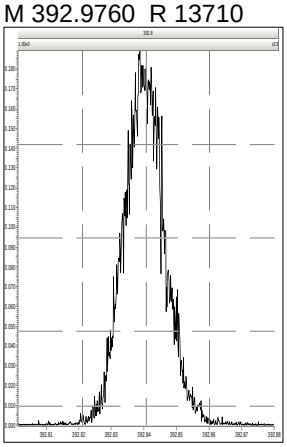

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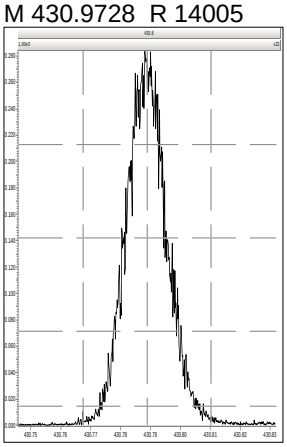

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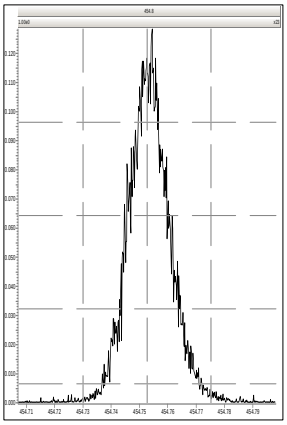
M 454.9728 R 13522



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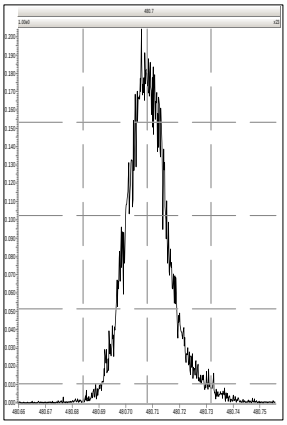
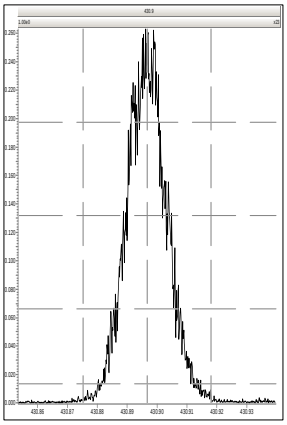


M 430.9728 R 13742



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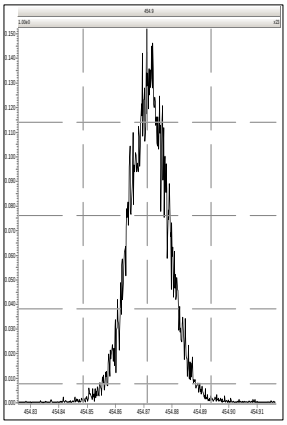
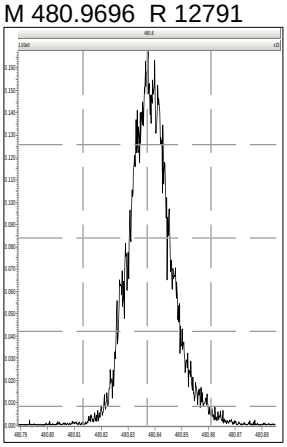


M 480.9696 R 12791



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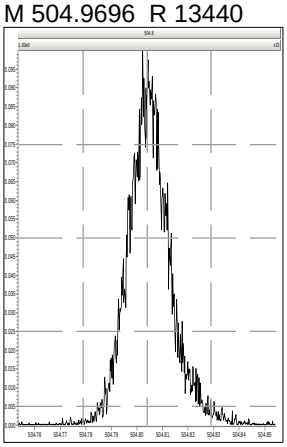

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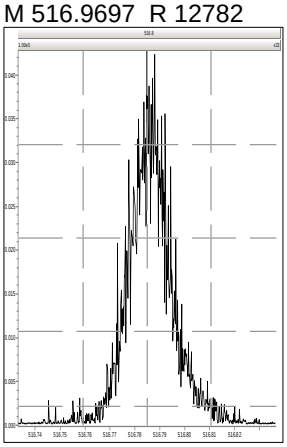

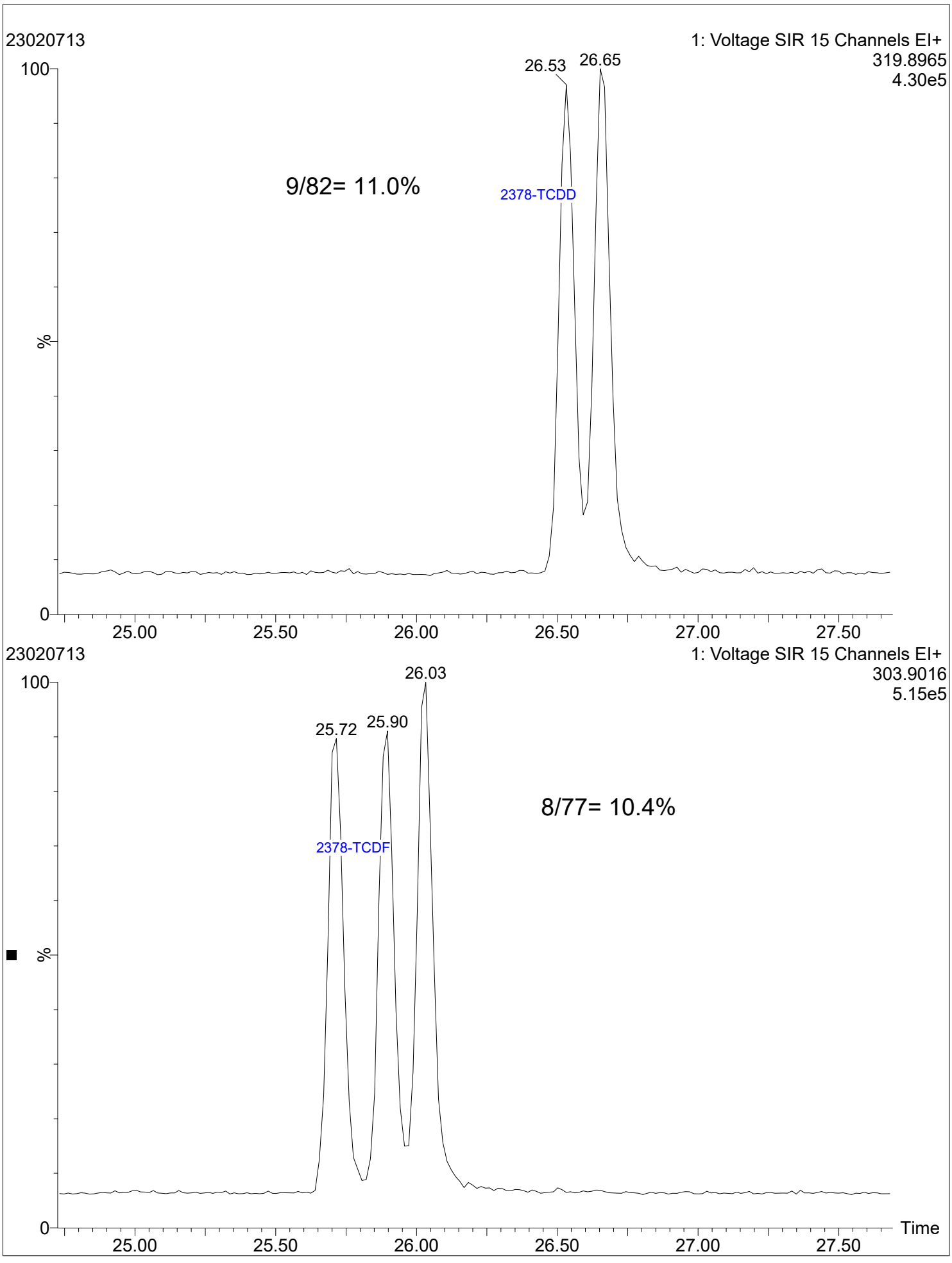
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1: Voltage SIR 15 Channels EI+
319.8965
4.30e5
100
26.53
26.65
9/82= 11.0%
2378-TCDD
%
0
25.00
25.50
26.00
26.50
27.00
27.50
23020713
1: Voltage SIR 15 Channels EI+
303.9016
5.15e5
100
26.03
25.72
25.90
8/77= 10.4%
2378-TCDF
%
0
Time
25.00
25.50
26.00
26.50
27.00
27.50

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GB00010
Lab File ID:	23020721	Calibration Date:	02/01/2023
Sequence:	SLB0072	Injection Date:	02/08/23
Lab Sample ID:	SLB0072-CCV2	Injection Time:	01:35
Sequence Name:	CS3T3		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
2,3,7,8-TCDF	A	10.000	9.30	0.8760604	0.8145246		-7.0	+/-16	
2,3,7,8-TCDD	A	10.000	9.18	1.2363600	1.1345480		-8.2	+/-22	
1,2,3,7,8-PeCDF	A	50.000	46.2	0.8446540	0.7800109		-7.7	+/-18	
2,3,4,7,8-PeCDF	A	50.000	47.0	0.9111780	0.8565973		-6.0	+/-18	
1,2,3,7,8-PeCDD	A	50.000	47.8	1.0866850	1.0395050		-4.3	+/-22	
1,2,3,4,7,8-HxCDF	A	50.000	46.0	1.1816860	1.0866520		-8.0	+/-10	
1,2,3,6,7,8-HxCDF	A	50.000	45.1	1.2480480	1.1257010		-9.8	+/-12	
2,3,4,6,7,8-HxCDF	A	50.000	45.6	1.2288500	1.1212440		-8.8	+/-12	
1,2,3,7,8,9-HxCDF	A	50.000	46.9	1.1865370	1.1130750		-6.2	+/-10	
1,2,3,4,7,8-HxCDD	A	50.000	46.1	0.9869672	0.9093198		-7.9	+/-22	
1,2,3,6,7,8-HxCDD	A	50.000	45.9	1.0207220	0.9377266		-8.1	+/-22	
1,2,3,7,8,9-HxCDD	A	50.000	50.6	0.9854780	0.9940994		1.2	+/-18	
1,2,3,4,6,7,8-HpCDF	A	50.000	45.6	1.2041190	1.0988650		-8.7	+/-10	
1,2,3,4,7,8,9-HpCDF	A	50.000	46.4	1.1653050	1.0819840		-7.2	+/-14	
1,2,3,4,6,7,8-HpCDD	A	50.000	44.4	1.2525690	1.1119350		-11.2	+/-14	
OCDF	A	100.00	80.1	1.1862640	0.9500443		-19.9	+/-37	
OCDD	A	100.00	89.9	1.1026670	0.9912677		-10.1	+/-21	
13C12-2,3,7,8-TCDF	A	100.00	90.4	1.7680590	1.5979643		-9.6	+/-29	
13C12-2,3,7,8-TCDD	A	100.00	104	1.1029470	1.1500778		4.3	+/-18	
13C12-1,2,3,7,8-PeCDF	A	100.00	96.0	1.5271250	1.4667768		-4.0	+/-24	
13C12-2,3,4,7,8-PeCDF	A	100.00	94.8	1.4662840	1.3895984		-5.2	+/-23	
13C12-1,2,3,7,8-PeCDD	A	100.00	103	0.9141518	0.9392497		2.7	+/-38	
13C12-1,2,3,4,7,8-HxCDF	A	100.00	82.8	1.0536610	0.8722192		-17.2	+/-24	
13C12-1,2,3,6,7,8-HxCDF	A	100.00	81.2	1.0799530	0.8773133		-18.8	+/-30	
13C12-2,3,4,6,7,8-HxCDF	A	100.00	84.2	1.0143260	0.8541652		-15.8	+/-27	
13C12-1,2,3,7,8,9-HxCDF	A	100.00	82.9	0.9279333	0.7689716		-17.1	+/-26	
13C12-1,2,3,4,7,8-HxCDD	A	100.00	92.3	0.9329336	0.8608756		-7.7	+/-15	
13C12-1,2,3,6,7,8-HxCDD	A	100.00	90.7	0.9646272	0.8746126		-9.3	+/-15	
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	75.3	1.0360890	0.7805178		-24.7	+/-22	*
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	77.6	0.9049372	0.7020069		-22.4	+/-23	
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	84.6	0.7819773	0.6617408		-15.4	+/-28	
13C12-OCDD	A	200.00	159	0.7882343	0.6273629		-20.4	+/-52	
37Cl4-2,3,7,8-TCDD	A	10.000	9.10	1.2334500	1.1227087		-9.0		

* Values outside of QC limits

* Values outside of QC limits

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Printed: Wednesday, February 08, 2023 09:32:51 Pacific Standard Time

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Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.867	1.001	2.989e4	3.883e4	0.876	0.770	0.770	689	925	4.67e5	6.10e5	677.6	659.2	NO	bb	bb	9.298
12378-PeCDF	30.026	1.000	1.808e5	1.213e5	0.845	1.491	1.550	1124	1652	2.80e6	1.90e6	2491.0	1152.8	NO	bb	bb	46.173
23478-PeCDF	31.363	1.001	1.881e5	1.261e5	0.911	1.492	1.550	1124	1652	2.94e6	1.97e6	2612.3	1195.3	NO	bb	bb	47.005
123478-HxCDF	34.984	1.001	2.009e5	1.593e5	1.182	1.261	1.240	1476	1211	3.21e6	2.54e6	2175.4	2100.1	NO	bd	bd	45.979
234678-HxCDF	35.987	1.001	2.001e5	1.639e5	1.229	1.221	1.240	1476	1211	3.20e6	2.59e6	2167.0	2141.2	NO	bb	bb	45.622
123678-HxCDF	35.118	1.000	2.094e5	1.659e5	1.248	1.263	1.240	1476	1211	3.21e6	2.56e6	2174.0	2115.2	NO	dd	db	45.098
123789-HxCDF	37.012	1.001	1.800e5	1.452e5	1.187	1.239	1.240	1476	1211	2.76e6	2.22e6	1866.8	1830.5	NO	bb	bd	46.904
1234678-HpCDF	38.850	1.000	1.639e5	1.620e5	1.204	1.012	1.050	1257	1463	2.72e6	2.63e6	2165.1	1796.7	NO	bb	bd	45.629
1234789-HpCDF	41.101	1.001	1.449e5	1.438e5	1.165	1.008	1.050	1257	1463	2.06e6	2.04e6	1637.1	1396.2	NO	bd	bd	46.425
OCDF	45.367	1.006	2.150e5	2.381e5	1.186	0.903	0.890	767	924	2.51e6	2.77e6	3275.0	2997.0	NO	bd	bd	80.087
2378-TCDD	26.501	1.001	3.017e4	3.872e4	1.236	0.779	0.770	957	775	4.59e5	5.98e5	479.8	770.8	NO	bb	bb	9.177
12378-PeCDD	31.619	1.001	1.569e5	1.008e5	1.087	1.557	1.550	1447	1164	2.39e6	1.55e6	1655.1	1332.8	NO	bb	bb	47.829
123478-HxCDD	36.087	1.000	1.628e5	1.347e5	0.987	1.209	1.240	1281	1025	2.78e6	2.31e6	2170.2	2258.0	NO	bd	bd	46.066
123678-HxCDD	36.209	1.001	1.712e5	1.405e5	1.021	1.219	1.240	1281	1025	2.74e6	2.23e6	2137.2	2174.2	NO	db	db	45.934
123789-HxCDD	36.588	1.011	1.819e5	1.469e5	0.985	1.238	1.240	1281	1025	3.02e6	2.42e6	2356.9	2363.4	NO	bb	bb	50.590
1234678-HpCDD	40.354	1.001	1.427e5	1.369e5	1.253	1.043	1.050	1275	1044	2.18e6	2.06e6	1709.2	1971.6	NO	bd	bd	44.386
OCDD	45.129	1.000	2.232e5	2.494e5	1.103	0.895	0.890	1183	1172	2.67e6	3.00e6	2259.7	2563.3	NO	bd	bb	89.897
13C-2378-TCDF	25.851	1.007	3.686e5	4.752e5	1.768	0.776	0.770	1717	987	5.74e6	7.30e6	3340.5	7402.0	NO	bb	bb	90.380
13C-12378-PeCDF	30.015	1.169	4.675e5	3.069e5	1.527	1.523	1.550	1282	1259	7.16e6	4.68e6	5579.9	3717.3	NO	bb	bb	96.048
13C-23478-PeCDF	31.341	1.221	4.457e5	2.880e5	1.466	1.548	1.550	1282	1259	6.78e6	4.38e6	5283.5	3476.7	NO	bb	bb	94.770
13C-123478-HxCDF	34.962	0.956	2.233e5	4.396e5	1.054	0.508	0.510	1208	1293	3.58e6	7.13e6	2964.2	5517.4	NO	bd	bd	82.780
13C-123678-HxCDF	35.106	0.960	2.280e5	4.388e5	1.080	0.520	0.510	1208	1293	3.65e6	7.09e6	3022.4	5486.0	NO	db	db	81.236
13C-234678-HxCDF	35.964	0.983	2.191e5	4.301e5	1.014	0.510	0.510	1208	1293	3.66e6	7.13e6	3026.3	5516.7	NO	bb	bb	84.210
13C-123789-HxCDF	36.989	1.011	1.970e5	3.874e5	0.928	0.509	0.510	1208	1293	3.32e6	6.48e6	2745.9	5009.8	NO	bb	bb	82.869
13C-1234678-HpCDF	38.839	1.062	1.843e5	4.089e5	1.036	0.451	0.440	1197	1846	3.08e6	6.73e6	2576.4	3646.6	NO	bb	bb	75.333
13C-1234789-HpCDF	41.078	1.123	1.659e5	3.677e5	0.905	0.451	0.440	1197	1846	2.39e6	5.27e6	1994.8	2855.6	NO	bb	bb	77.575
13C-1234-TCDD	25.670	0.000	2.314e5	2.965e5	1.000	0.780	0.770	1333	873	3.68e6	4.66e6	2762.2	5343.9	NO	bb	bb	100.000
13C-2378-TCDD	26.486	1.032	2.646e5	3.427e5	1.103	0.772	0.770	1333	873	4.17e6	5.36e6	3127.0	6142.0	NO	bb	bb	104.273
13C-12378-PeCDD	31.597	1.231	3.054e5	1.905e5	0.914	1.603	1.550	815	748	4.67e6	2.92e6	5733.6	3904.7	NO	bd	bb	102.745
13C-123478-HxCDD	36.076	0.986	3.680e5	2.863e5	0.933	1.285	1.240	1195	1669	6.27e6	4.84e6	5248.6	2900.5	NO	bd	bd	92.276
13C-123678-HxCDD	36.187	0.989	3.693e5	2.955e5	0.965	1.250	1.240	1195	1669	6.01e6	4.83e6	5026.2	2896.6	NO	db	db	90.668
13C-1234678-HpCDD	40.332	1.103	2.646e5	2.383e5	0.782	1.110	1.050	1103	1181	3.95e6	3.73e6	3582.0	3159.4	NO	bd	bb	84.624
13C-OCDD	45.111	1.233	4.546e5	4.991e5	0.788	0.911	0.890	1981	1422	5.61e6	6.19e6	2832.2	4348.8	NO	bb	bb	159.182
13C-123789-HxCDD	36.577	0.000	4.226e5	3.374e5	1.000	1.252	1.240	1195	1669	7.00e6	5.67e6	5856.2	3396.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.501	1.032	5.928e4		1.233			1148		9.29e5		809.5			bb		9.102

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.344	0.864	3.342e4	4.455e4	1.064	0.750	0.770	689	925	5.30e5	7.02e5	768.7	759.5	NO	bb	bb	8.681
1289-TCDF	27.363	1.058	2.927e4	3.773e4	0.858	0.776	0.770	689	925	4.37e5	5.75e5	634.3	622.1	NO	db	bb	9.259
13468-PECDF	27.212	0.907	2.454e5	1.594e5	1.013	1.540	1.550	569	815	3.71e6	2.39e6	6521.3	2933.4	NO	bb	bb	51.598
12389-PECDF					0.844		1.550	1124	1652								
123468-HXCDF	33.324	0.953	1.979e5	1.581e5	1.197	1.252	1.240	1476	1211	3.03e6	2.41e6	2052.5	1991.6	NO	bd	bd	44.844
1368-TCDD	23.629	0.892	2.686e4	3.446e4	1.084	0.780	0.770	957	775	4.19e5	5.33e5	437.7	687.4	NO	bb	bb	9.313
1289-TCDD	27.106	1.023	2.613e4	3.300e4	0.975	0.792	0.770	957	775	4.04e5	5.11e5	422.2	659.1	NO	bb	bd	9.985
12479-PECDD	28.890	0.914	2.667e5	1.702e5	1.837	1.567	1.550	1447	1164	2.61e6	1.66e6	1801.1	1425.3	NO	bb	bb	47.957
12389-PECDD	32.009	1.013	1.833e5	1.186e5	1.252	1.545	1.550	1447	1164	2.80e6	1.84e6	1938.2	1581.8	NO	bb	bb	48.611
124679-HXCDD	34.093	0.945	1.692e5	1.400e5	1.033	1.209	1.240	1281	1025	2.67e6	2.22e6	2084.0	2160.6	NO	bb	bb	45.755
1234679-HPCDD	39.296	0.974	1.557e5	1.502e5	1.286	1.036	1.050	1275	1044	2.52e6	2.45e6	1975.5	2343.0	NO	bd	bb	47.294
Total-tetrafurans			9.279e4		0.933			689		1.44e6							27.296
Total-penta1			2.454e5					569		3.71e6							51.598
Total-pentafurans			5.771e5		0.866			1124		8.83e6							146.147
Total-hexafurans			9.889e5		1.208			1476		1.54e7							228.578
Total-heptafurans			3.088e5		1.185			1257		4.78e6							92.054
Total-Furans			2.428e6		1.067			689		3.67e7							625.761
Total-tetradioxins			1.410e5		1.099			957		1.95e6							48.007
Total-pentadioxins			6.070e5		1.392			1447		7.80e6							144.398
Total-hexadioxins			6.851e5		1.007			1281		1.12e7							188.346
Total-heptadioxins			2.984e5		1.269			1275		4.70e6							91.680
Total-Dioxins			1.955e6		1.165			957		2.83e7							562.328
Total-TEQ			4.383e6					957		6.50e7							1188.088
FUNCTION1 PFK			2.134e5					477536		5.49e6							
FUNCTION2 PFK			1.786e5					215339		5.47e6							0.000
FUNCTION3 PFK			3.692e6					270408		5.38e6							0.000
FUNCTION4 PFK			2.158e5					174561		4.37e6							
FUNCTION5 PFK			1.125e5					115763		4.12e6							
FUNCTION1 HXCD...			1.086e2					438		1.36e3							0.000
FUNCTION1 HPCD...			1.250e2					565		2.02e3							0.000
FUNCTION2 HPCD...			3.788e2					645		4.78e3							0.000
FUNCTION3 OCDPE			8.291e1					503		1.47e3							0.000
FUNCTION4 NCDPE			7.754e1					542		1.15e3							0.000
FUNCTION5 DCDPE			0.000e0					662		0.00e0							

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.36	2.927e4	3.773e4	0.858	0.78	0.77	634.3	YES	NO	db	bb	9.259
2	2378-TCDF	25.87	2.989e4	3.883e4	0.876	0.77	0.77	677.6	YES	NO	bb	bb	9.298
3	Total-tetrafurans	24.76	2.129e2	2.476e2	0.933	0.86	0.77	4.9	YES	NO	dd	bb	0.059
4	1368-TCDF	22.34	3.342e4	4.455e4	1.064	0.75	0.77	768.7	YES	NO	bb	bb	8.681

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.21	2.454e5	1.594e5	1.013	1.54	1.55	6521.3	YES	NO	bb	bb	51.598

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	30.03	1.808e5	1.213e5	0.845	1.49	1.55	2491.0	YES	NO	bb	bb	46.173
2	Total-pentafurans	28.88	2.988e4	2.022e4	0.866	1.48	1.55	414.7	YES	NO	bb	bb	7.668
3	Total-pentafurans	32.40	1.783e5	1.177e5	0.866	1.51	1.55	2333.4	YES	NO	bb	bb	45.302
4	23478-PeCDF	31.36	1.881e5	1.261e5	0.911	1.49	1.55	2612.3	YES	NO	bb	bb	47.005

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.49	5.853e2	4.225e2	1.208	1.39	1.24	10.4	YES	NO	dd	db	0.130
2	123468-HXCDF	33.32	1.979e5	1.581e5	1.197	1.25	1.24	2052.5	YES	NO	bd	bd	44.844
3	123789-HxCDF	37.01	1.800e5	1.452e5	1.187	1.24	1.24	1866.8	YES	NO	bb	bd	46.904
4	234678-HxCDF	35.99	2.001e5	1.639e5	1.229	1.22	1.24	2167.0	YES	NO	bb	bb	45.622
5	123678-HxCDF	35.12	2.094e5	1.659e5	1.248	1.26	1.24	2174.0	YES	NO	dd	db	45.098
6	123478-HxCDF	34.98	2.009e5	1.593e5	1.182	1.26	1.24	2175.4	YES	NO	bd	bd	45.979

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	1.449e5	1.438e5	1.165	1.01	1.05	1637.1	YES	NO	bd	bd	46.425
2	1234678-HpCDF	38.85	1.639e5	1.620e5	1.204	1.01	1.05	2165.1	YES	NO	bb	bd	45.629

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.36	2.927e4	3.773e4	0.858	0.78	0.77	634.3	YES	NO	db	bb	9.259
2	2378-TCDF	25.87	2.989e4	3.883e4	0.876	0.77	0.77	677.6	YES	NO	bb	bb	9.298
3	Total-tetrafurans	24.76	2.129e2	2.476e2	0.933	0.86	0.77	4.9	YES	NO	dd	bb	0.059
4	1368-TCDF	22.34	3.342e4	4.455e4	1.064	0.75	0.77	768.7	YES	NO	bb	bb	8.681
5	12378-PeCDF	30.03	1.808e5	1.213e5	0.845	1.49	1.55	2491.0	YES	NO	bb	bb	46.173
6	Total-pentafurans	28.88	2.988e4	2.022e4	0.866	1.48	1.55	414.7	YES	NO	bb	bb	7.668
7	Total-hexafurans	33.49	5.853e2	4.225e2	1.208	1.39	1.24	10.4	YES	NO	dd	db	0.130
8	123468-HXCDF	33.32	1.979e5	1.581e5	1.197	1.25	1.24	2052.5	YES	NO	bd	bd	44.844
9	Total-pentafurans	32.40	1.783e5	1.177e5	0.866	1.51	1.55	2333.4	YES	NO	bb	bb	45.302
10	23478-PeCDF	31.36	1.881e5	1.261e5	0.911	1.49	1.55	2612.3	YES	NO	bb	bb	47.005
11	123789-HxCDF	37.01	1.800e5	1.452e5	1.187	1.24	1.24	1866.8	YES	NO	bb	bd	46.904
12	234678-HxCDF	35.99	2.001e5	1.639e5	1.229	1.22	1.24	2167.0	YES	NO	bb	bb	45.622
13	123678-HxCDF	35.12	2.094e5	1.659e5	1.248	1.26	1.24	2174.0	YES	NO	dd	db	45.098
14	123478-HxCDF	34.98	2.009e5	1.593e5	1.182	1.26	1.24	2175.4	YES	NO	bd	bd	45.979
15	1234789-HpCDF	41.10	1.449e5	1.438e5	1.165	1.01	1.05	1637.1	YES	NO	bd	bd	46.425
16	1234678-HpCDF	38.85	1.639e5	1.620e5	1.204	1.01	1.05	2165.1	YES	NO	bb	bd	45.629
17	OCDF	45.37	2.150e5	2.381e5	1.186	0.90	0.89	3275.0	YES	NO	bd	bd	80.087
18	13468-PECDF	27.21	2.454e5	1.594e5	1.013	1.54	1.55	6521.3	YES	NO	bb	bb	51.598

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.63	2.686e4	3.446e4	1.084	0.78	0.77	437.7	YES	NO	bb	bb	9.313
2	1289-TCDD	27.11	2.613e4	3.300e4	0.975	0.79	0.77	422.2	YES	NO	bb	bd	9.985
3	2378-TCDD	26.50	3.017e4	3.872e4	1.236	0.78	0.77	479.8	YES	NO	bb	bb	9.177
4	Total-tetradioxins	26.18	4.356e4	5.516e4	1.099	0.79	0.77	474.0	YES	NO	bb	bb	14.798
5	Total-tetradioxins	25.68	1.401e4	1.679e4	1.099	0.83	0.77	222.9	YES	NO	bd	bb	4.616
6	Total-tetradioxins	25.10	3.249e2	4.667e2	1.099	0.70	0.77	4.8	YES	NO	bb	bb	0.119

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.01	1.833e5	1.186e5	1.252	1.54	1.55	1938.2	YES	NO	bb	bb	48.611
2	12378-PeCDD	31.62	1.569e5	1.008e5	1.087	1.56	1.55	1655.1	YES	NO	bb	bb	47.829
3	12479-PECDD	28.89	2.667e5	1.702e5	1.837	1.57	1.55	1801.1	YES	NO	bb	bb	47.957

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	34.09	1.692e5	1.400e5	1.033	1.21	1.24	2084.0	YES	NO	bb	bb	45.755
2	123789-HxCDD	36.59	1.819e5	1.469e5	0.985	1.24	1.24	2356.9	YES	NO	bb	bb	50.590
3	123678-HxCDD	36.21	1.712e5	1.405e5	1.021	1.22	1.24	2137.2	YES	NO	db	db	45.934
4	123478-HxCDD	36.09	1.628e5	1.347e5	0.987	1.21	1.24	2170.2	YES	NO	bd	bd	46.066

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	1.427e5	1.369e5	1.253	1.04	1.05	1709.2	YES	NO	bd	bd	44.386
2	1234679-HPCDD	39.30	1.557e5	1.502e5	1.286	1.04	1.05	1975.5	YES	NO	bd	bb	47.294

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.63	2.686e4	3.446e4	1.084	0.78	0.77	437.7	YES	NO	bb	bb	9.313
2	1289-TCDD	27.11	2.613e4	3.300e4	0.975	0.79	0.77	422.2	YES	NO	bb	bd	9.985
3	2378-TCDD	26.50	3.017e4	3.872e4	1.236	0.78	0.77	479.8	YES	NO	bb	bb	9.177
4	Total-tetradioxins	26.18	4.356e4	5.516e4	1.099	0.79	0.77	474.0	YES	NO	bb	bb	14.798
5	Total-tetradioxins	25.68	1.401e4	1.679e4	1.099	0.83	0.77	222.9	YES	NO	bd	bb	4.616
6	Total-tetradioxins	25.10	3.249e2	4.667e2	1.099	0.70	0.77	4.8	YES	NO	bb	bb	0.119
7	12389-PECDD	32.01	1.833e5	1.186e5	1.252	1.54	1.55	1938.2	YES	NO	bb	bb	48.611
8	12378-PeCDD	31.62	1.569e5	1.008e5	1.087	1.56	1.55	1655.1	YES	NO	bb	bb	47.829
9	12479-PECDD	28.89	2.667e5	1.702e5	1.837	1.57	1.55	1801.1	YES	NO	bb	bb	47.957
10	124679-HXCDD	34.09	1.692e5	1.400e5	1.033	1.21	1.24	2084.0	YES	NO	bb	bb	45.755
11	123789-HxCDD	36.59	1.819e5	1.469e5	0.985	1.24	1.24	2356.9	YES	NO	bb	bb	50.590
12	123678-HxCDD	36.21	1.712e5	1.405e5	1.021	1.22	1.24	2137.2	YES	NO	db	db	45.934
13	123478-HxCDD	36.09	1.628e5	1.347e5	0.987	1.21	1.24	2170.2	YES	NO	bd	bd	46.066
14	1234678-HpCDD	40.35	1.427e5	1.369e5	1.253	1.04	1.05	1709.2	YES	NO	bd	bd	44.386
15	1234679-HPCDD	39.30	1.557e5	1.502e5	1.286	1.04	1.05	1975.5	YES	NO	bd	bb	47.294
16	OCDD	45.13	2.232e5	2.494e5	1.103	0.89	0.89	2259.7	YES	NO	bd	bb	89.897

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.36	2.927e4	3.773e4	0.858	0.78	0.77	634.3	YES	NO	db	bb	9.259
2	2378-TCDF	25.87	2.989e4	3.883e4	0.876	0.77	0.77	677.6	YES	NO	bb	bb	9.298
3	Total-tetrafurans	24.76	2.129e2	2.476e2	0.933	0.86	0.77	4.9	YES	NO	dd	bb	0.059
4	1368-TCDF	22.34	3.342e4	4.455e4	1.064	0.75	0.77	768.7	YES	NO	bb	bb	8.681
5	12378-PeCDF	30.03	1.808e5	1.213e5	0.845	1.49	1.55	2491.0	YES	NO	bb	bb	46.173
6	Total-pentafurans	28.88	2.988e4	2.022e4	0.866	1.48	1.55	414.7	YES	NO	bb	bb	7.668
7	Total-hexafurans	33.49	5.853e2	4.225e2	1.208	1.39	1.24	10.4	YES	NO	dd	db	0.130
8	123468-HXCDF	33.32	1.979e5	1.581e5	1.197	1.25	1.24	2052.5	YES	NO	bd	bd	44.844
9	Total-pentafurans	32.40	1.783e5	1.177e5	0.866	1.51	1.55	2333.4	YES	NO	bb	bb	45.302
10	23478-PeCDF	31.36	1.881e5	1.261e5	0.911	1.49	1.55	2612.3	YES	NO	bb	bb	47.005
11	123789-HxCDF	37.01	1.800e5	1.452e5	1.187	1.24	1.24	1866.8	YES	NO	bb	bd	46.904
12	234678-HxCDF	35.99	2.001e5	1.639e5	1.229	1.22	1.24	2167.0	YES	NO	bb	bb	45.622
13	123678-HxCDF	35.12	2.094e5	1.659e5	1.248	1.26	1.24	2174.0	YES	NO	dd	db	45.098
14	123478-HxCDF	34.98	2.009e5	1.593e5	1.182	1.26	1.24	2175.4	YES	NO	bd	bd	45.979
15	1234789-HpCDF	41.10	1.449e5	1.438e5	1.165	1.01	1.05	1637.1	YES	NO	bd	bd	46.425
16	1234678-HpCDF	38.85	1.639e5	1.620e5	1.204	1.01	1.05	2165.1	YES	NO	bb	bd	45.629
17	OCDF	45.37	2.150e5	2.381e5	1.186	0.90	0.89	3275.0	YES	NO	bd	bd	80.087
18	13468-PECDF	27.21	2.454e5	1.594e5	1.013	1.54	1.55	6521.3	YES	NO	bb	bb	51.598
19	1368-TCDD	23.63	2.686e4	3.446e4	1.084	0.78	0.77	437.7	YES	NO	bb	bb	9.313
20	1289-TCDD	27.11	2.613e4	3.300e4	0.975	0.79	0.77	422.2	YES	NO	bb	bd	9.985
21	2378-TCDD	26.50	3.017e4	3.872e4	1.236	0.78	0.77	479.8	YES	NO	bb	bb	9.177
22	Total-tetradioxins	26.18	4.356e4	5.516e4	1.099	0.79	0.77	474.0	YES	NO	bb	bb	14.798
23	Total-tetradioxins	25.68	1.401e4	1.679e4	1.099	0.83	0.77	222.9	YES	NO	bd	bb	4.616
24	Total-tetradioxins	25.10	3.249e2	4.667e2	1.099	0.70	0.77	4.8	YES	NO	bb	bb	0.119
25	12389-PECDD	32.01	1.833e5	1.186e5	1.252	1.54	1.55	1938.2	YES	NO	bb	bb	48.611
26	12378-PeCDD	31.62	1.569e5	1.008e5	1.087	1.56	1.55	1655.1	YES	NO	bb	bb	47.829
27	12479-PECDD	28.89	2.667e5	1.702e5	1.837	1.57	1.55	1801.1	YES	NO	bb	bb	47.957
28	124679-HXCDD	34.09	1.692e5	1.400e5	1.033	1.21	1.24	2084.0	YES	NO	bb	bb	45.755
29	123789-HxCDD	36.59	1.819e5	1.469e5	0.985	1.24	1.24	2356.9	YES	NO	bb	bb	50.590
30	123678-HxCDD	36.21	1.712e5	1.405e5	1.021	1.22	1.24	2137.2	YES	NO	db	db	45.934
31	123478-HxCDD	36.09	1.628e5	1.347e5	0.987	1.21	1.24	2170.2	YES	NO	bd	bd	46.066
32	1234678-HpCDD	40.35	1.427e5	1.369e5	1.253	1.04	1.05	1709.2	YES	NO	bd	bd	44.386
33	1234679-HPCDD	39.30	1.557e5	1.502e5	1.286	1.04	1.05	1975.5	YES	NO	bd	bb	47.294
34	OCDD	45.13	2.232e5	2.494e5	1.103	0.89	0.89	2259.7	YES	NO	bd	bb	89.897

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	26.70	2.023e4					1.3	NO		bb		
2	FUNCTION1 PFK	26.55	1.144e4					0.9	NO		bb		
3	FUNCTION1 PFK	26.49	4.635e3					0.6	NO		bb		
4	FUNCTION1 PFK	26.05	3.908e3					0.5	NO		bb		
5	FUNCTION1 PFK	25.40	1.187e4					0.9	NO		bb		
6	FUNCTION1 PFK	22.45	3.890e3					0.5	NO		bb		
7	FUNCTION1 PFK	22.22	6.548e4					2.2	NO		bb		
8	FUNCTION1 PFK	21.98	1.169e4					0.9	NO		bb		
9	FUNCTION1 PFK	21.72	1.145e4					1.0	NO		bb		
10	FUNCTION1 PFK	21.18	6.878e4					2.5	NO		bb		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.30	3.568e3					0.9	NO		bb		0.000
2	FUNCTION2 PFK	31.43	1.195e3					0.5	NO		bb		0.000
3	FUNCTION2 PFK	31.24	1.126e3					0.5	NO		bb		0.000
4	FUNCTION2 PFK	31.20	4.585e3					1.0	NO		db		0.000
5	FUNCTION2 PFK	31.16	6.978e3					1.2	NO		bd		0.000
6	FUNCTION2 PFK	31.11	1.585e4					1.6	NO		bb		0.000
7	FUNCTION2 PFK	30.32	2.082e3					0.6	NO		bb		0.000
8	FUNCTION2 PFK	30.09	6.311e3					1.3	NO		bb		0.000
9	FUNCTION2 PFK	29.99	5.210e3					1.2	NO		db		0.000
10	FUNCTION2 PFK	29.89	1.515e4					1.4	NO		bd		0.000
11	FUNCTION2 PFK	29.84	1.481e4					1.8	NO		bb		0.000
12	FUNCTION2 PFK	29.44	1.114e3					0.5	NO		bb		0.000
13	FUNCTION2 PFK	28.87	1.231e4					0.9	NO		bb		0.000
14	FUNCTION2 PFK	28.56	3.301e3					0.9	NO		bb		0.000
15	FUNCTION2 PFK	28.51	8.870e3					1.3	NO		bb		0.000
16	FUNCTION2 PFK	28.44	1.006e4					1.6	NO		bb		0.000
17	FUNCTION2 PFK	28.38	3.503e3					0.8	NO		bb		0.000
18	FUNCTION2 PFK	32.63	1.162e3					0.5	NO		bb		0.000
19	FUNCTION2 PFK	32.54	1.268e4					1.2	NO		bb		0.000
20	FUNCTION2 PFK	32.39	9.909e3					1.4	NO		bb		0.000
21	FUNCTION2 PFK	32.23	4.859e3					0.9	NO		bb		0.000
22	FUNCTION2 PFK	31.90	4.977e3					0.9	NO		bb		0.000
23	FUNCTION2 PFK	31.80	2.169e4					1.8	NO		bb		0.000
24	FUNCTION2 PFK	31.51	7.345e3					0.7	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.87	1.434e6					9.2	YES		bb		0.000
2	FUNCTION3 PFK	36.01	2.258e6					10.7	YES		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.91	9.011e2					0.5	NO		bb		
2	FUNCTION4 PFK	38.30	5.373e3					1.0	NO		db		
3	FUNCTION4 PFK	38.24	2.063e4					2.9	NO		bd		
4	FUNCTION4 PFK	38.16	2.921e4					3.8	YES		db		
5	FUNCTION4 PFK	38.13	5.819e4					3.6	YES		bd		
6	FUNCTION4 PFK	42.75	3.865e3					1.0	NO		bb		
7	FUNCTION4 PFK	42.68	3.805e3					1.1	NO		bb		
8	FUNCTION4 PFK	41.91	2.761e3					0.6	NO		bb		
9	FUNCTION4 PFK	41.27	2.323e4					1.5	NO		db		
10	FUNCTION4 PFK	41.10	1.132e4					1.5	NO		bd		
11	FUNCTION4 PFK	40.65	7.650e3					1.5	NO		bb		
12	FUNCTION4 PFK	40.52	2.352e4					2.0	NO		bb		
13	FUNCTION4 PFK	39.82	1.782e4					2.0	NO		bb		
14	FUNCTION4 PFK	39.03	3.662e3					0.9	NO		db		
15	FUNCTION4 PFK	38.98	3.895e3					1.1	NO		bd		

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.35	2.092e3					0.7	NO		db		
2	FUNCTION5 PFK	43.31	4.272e3					1.4	NO		bd		
3	FUNCTION5 PFK	43.24	4.550e3					1.5	NO		bb		
4	FUNCTION5 PFK	43.11	3.078e3					1.3	NO		db		
5	FUNCTION5 PFK	43.07	2.926e3					1.4	NO		bd		
6	FUNCTION5 PFK	45.39	8.629e3					1.2	NO		db		
7	FUNCTION5 PFK	45.33	2.745e3					0.9	NO		bd		
8	FUNCTION5 PFK	45.28	3.286e3					1.2	NO		bb		
9	FUNCTION5 PFK	45.06	3.876e2					0.4	NO		bb		
10	FUNCTION5 PFK	44.86	4.044e3					1.1	NO		bb		
11	FUNCTION5 PFK	44.77	1.135e4					2.1	NO		bb		
12	FUNCTION5 PFK	44.68	9.812e3					1.9	NO		bb		
13	FUNCTION5 PFK	44.48	2.605e3					1.0	NO		db		
14	FUNCTION5 PFK	44.43	2.465e3					0.9	NO		bd		
15	FUNCTION5 PFK	44.28	4.028e2					0.4	NO		bb		
16	FUNCTION5 PFK	44.24	1.798e3					0.9	NO		bb		
17	FUNCTION5 PFK	44.08	5.712e3					1.4	NO		bb		
18	FUNCTION5 PFK	43.99	2.793e3					1.2	NO		bb		
19	FUNCTION5 PFK	43.79	4.234e3					1.1	NO		bb		
20	FUNCTION5 PFK	43.62	3.789e3					1.3	NO		db		
21	FUNCTION5 PFK	43.56	5.347e3					1.2	NO		bd		
22	FUNCTION5 PFK	46.46	1.270e3					0.8	NO		bb		
23	FUNCTION5 PFK	46.36	1.625e3					0.7	NO		bb		
24	FUNCTION5 PFK	46.16	5.790e2					0.5	NO		bb		
25	FUNCTION5 PFK	46.13	7.509e2					0.5	NO		db		
26	FUNCTION5 PFK	46.09	2.489e3					1.1	NO		bd		
27	FUNCTION5 PFK	45.88	4.478e3					1.2	NO		db		
28	FUNCTION5 PFK	45.83	6.104e3					1.8	NO		dd		
29	FUNCTION5 PFK	45.79	2.918e3					1.0	NO		dd		
30	FUNCTION5 PFK	45.75	2.440e3					0.9	NO		bd		
31	FUNCTION5 PFK	45.70	1.975e3					0.9	NO		bb		
32	FUNCTION5 PFK	45.55	5.406e2					0.5	NO		bb		
33	FUNCTION5 PFK	45.51	5.188e2					0.5	NO		bb		
34	FUNCTION5 PFK	45.48	5.220e2					0.5	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	23.83	1.086e2					3.1	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	24.37	1.250e2					3.6	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.20	3.788e2					7.4	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.58	8.291e1					2.9	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.65	7.754e1					2.1	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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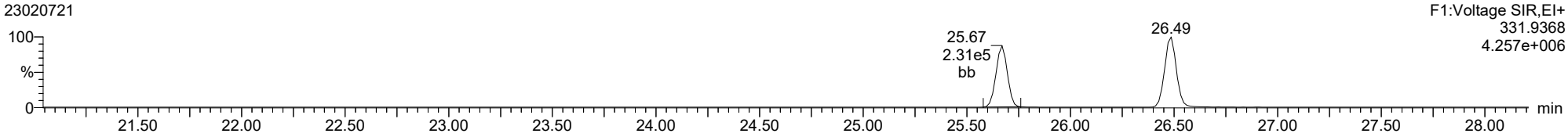
ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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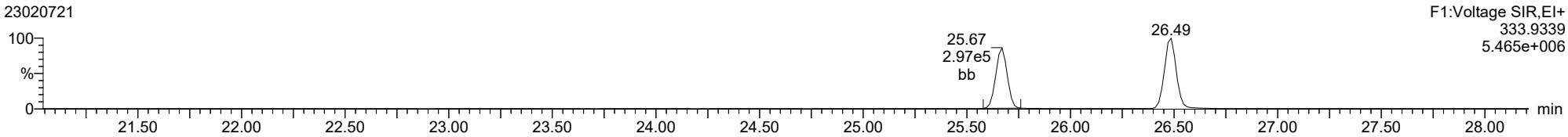

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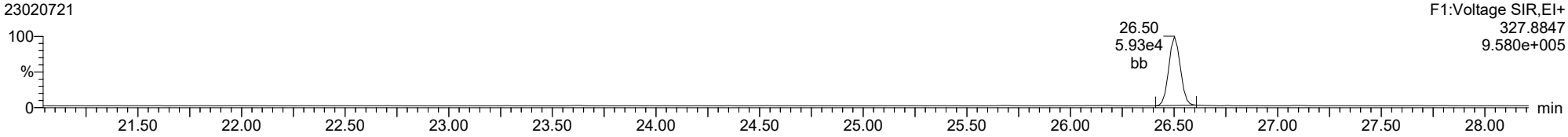

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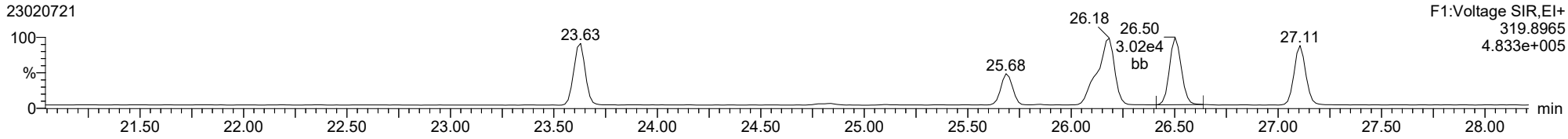
2378-TCDD



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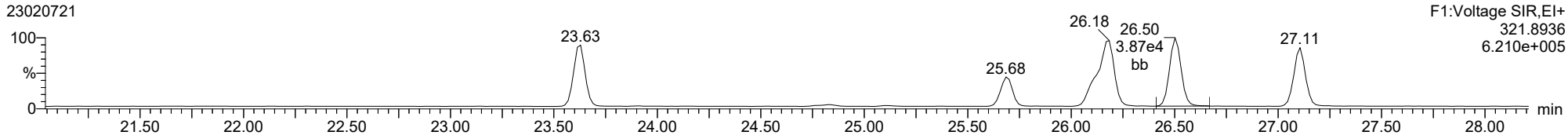

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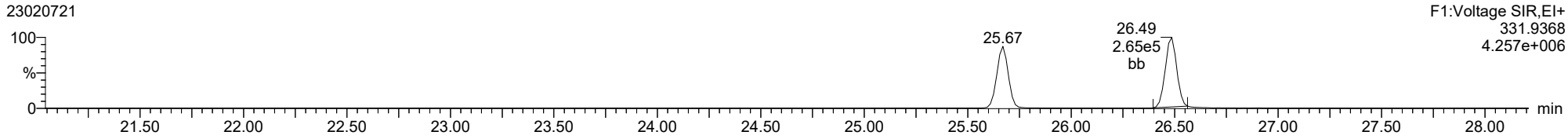

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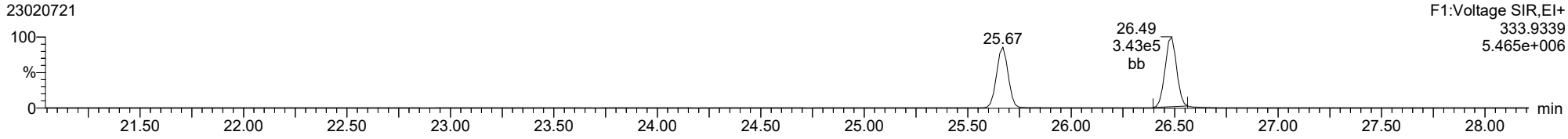

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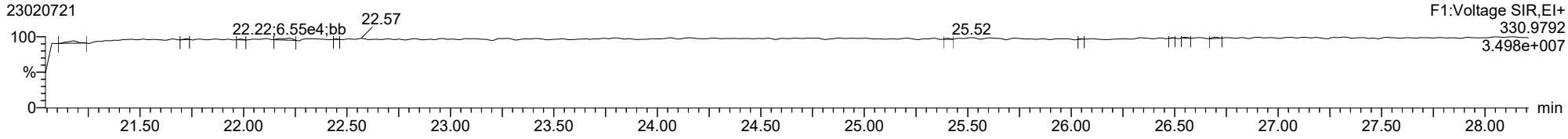

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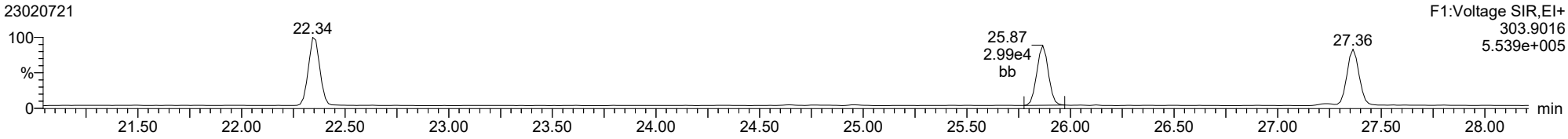
2378-TCDF



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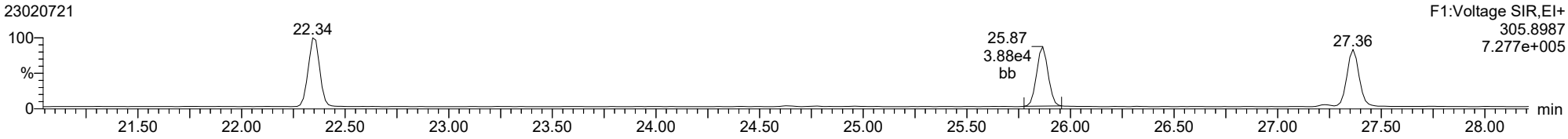

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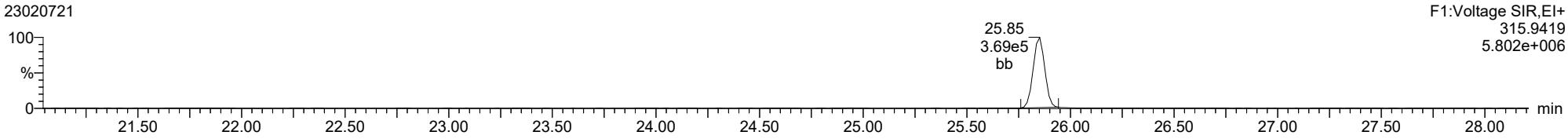

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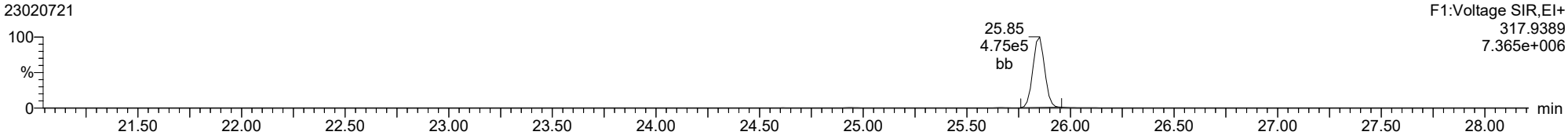

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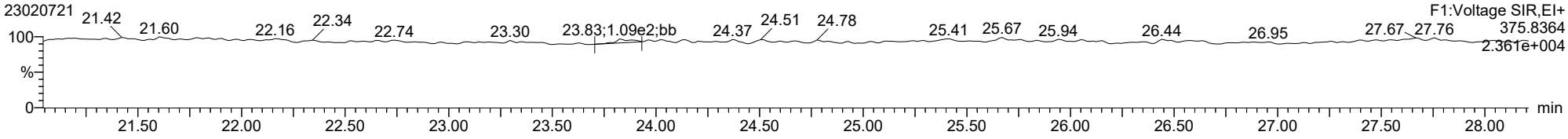

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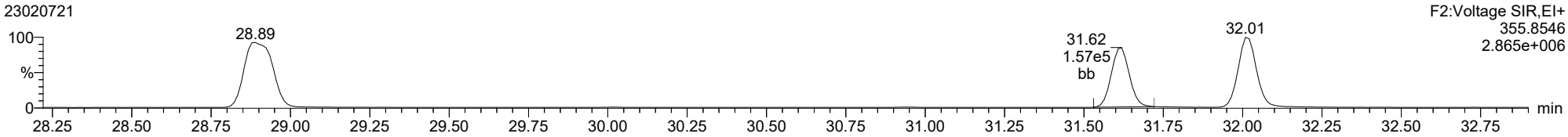
Printed: Wednesday, February 08, 2023 09:32:51 Pacific Standard Time

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

12378-PeCDD



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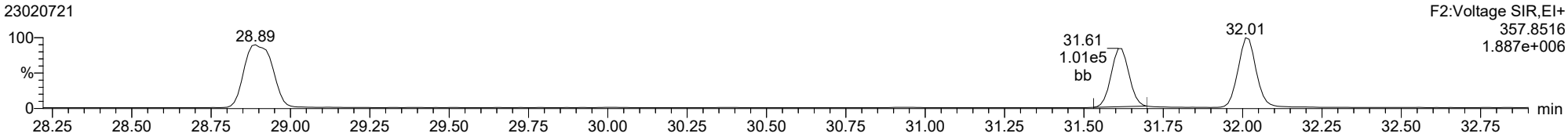

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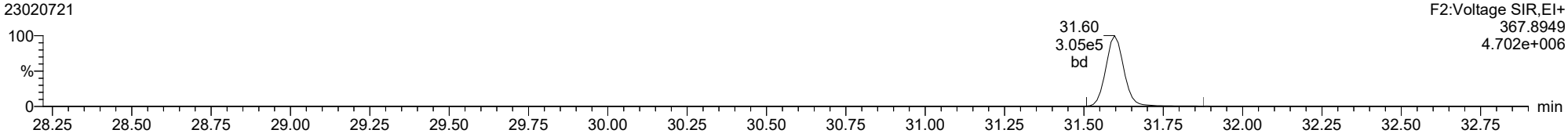

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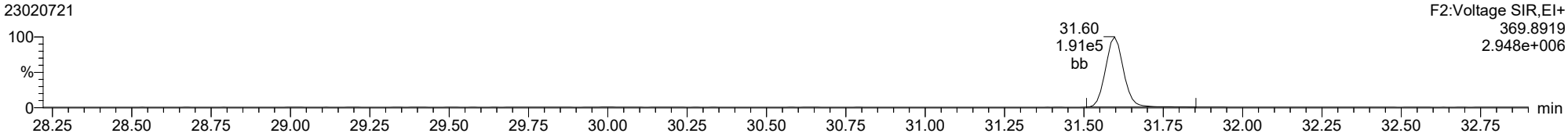

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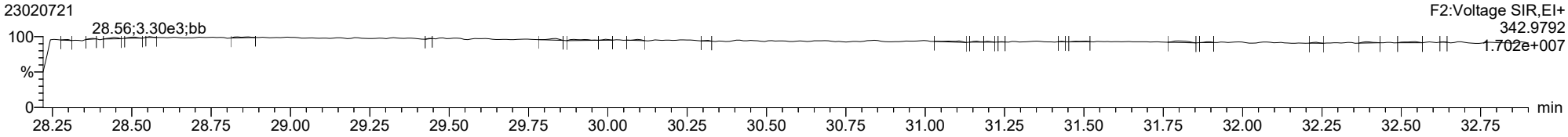

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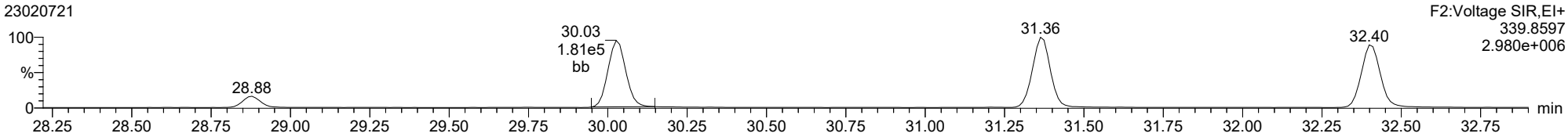
12378-PeCDF



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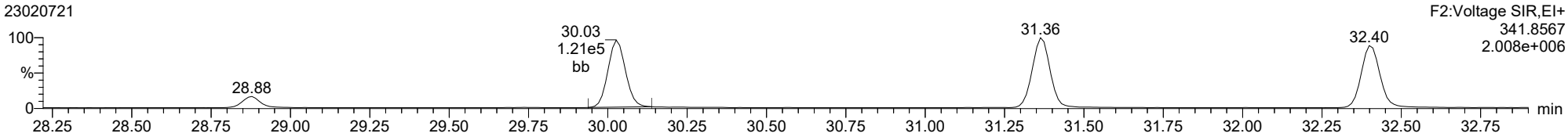

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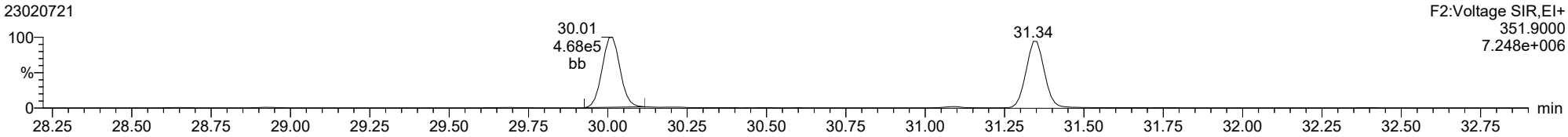

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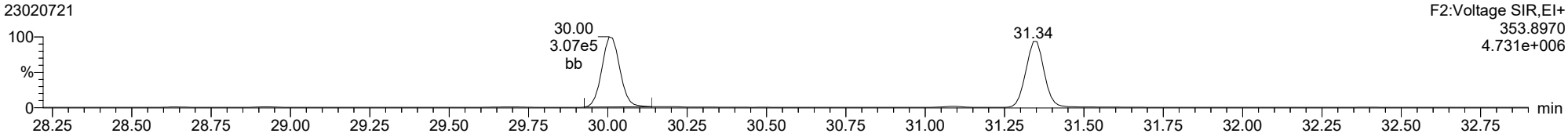

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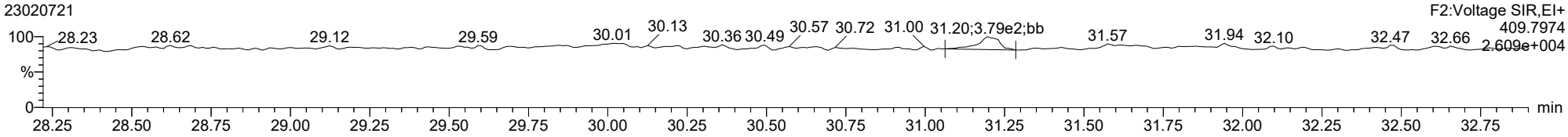

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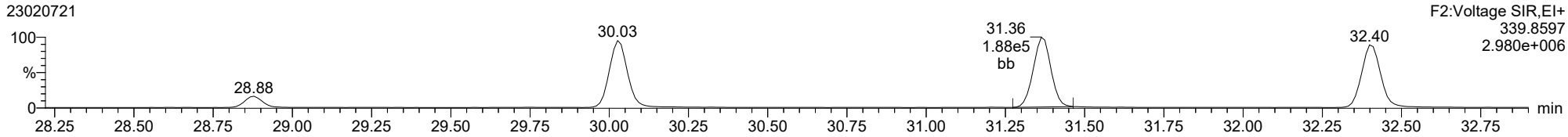
23478-PeCDF



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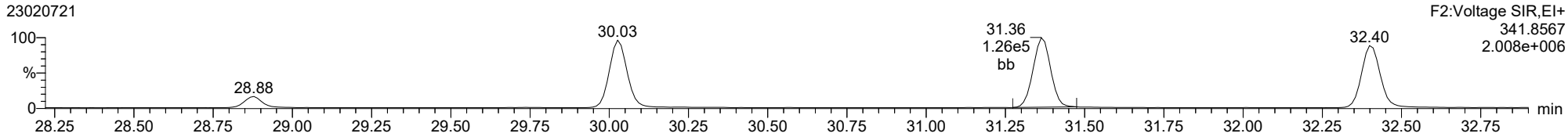

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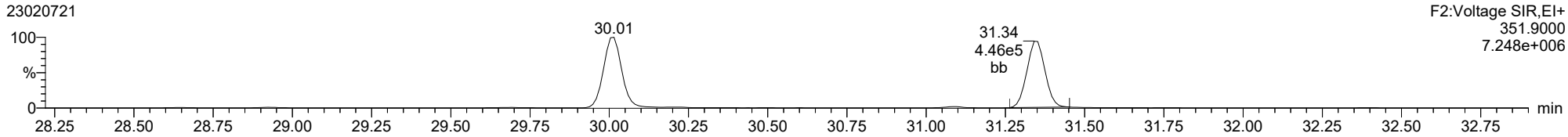

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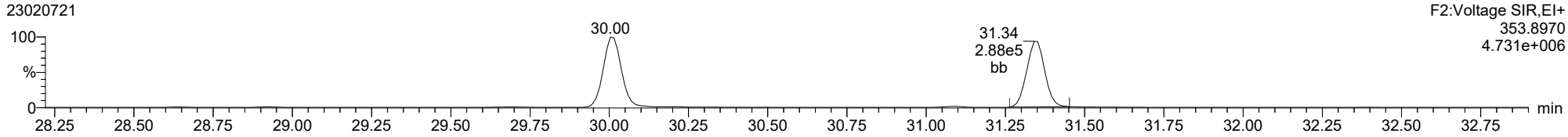

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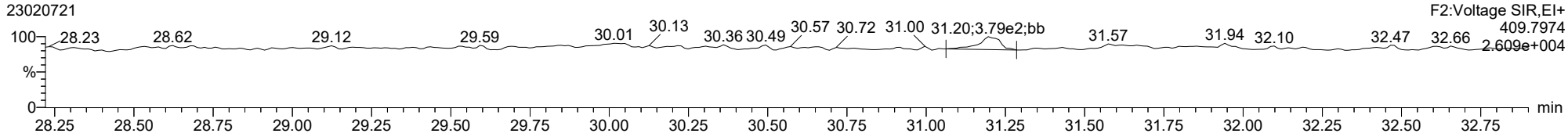

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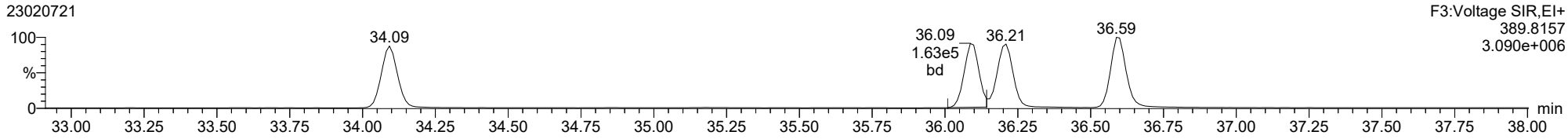

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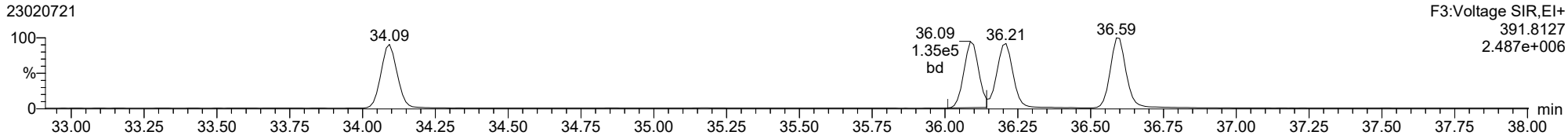

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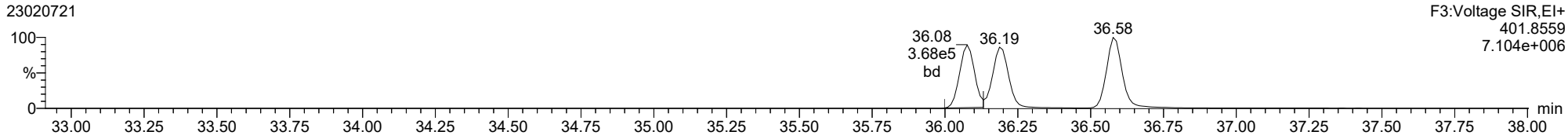

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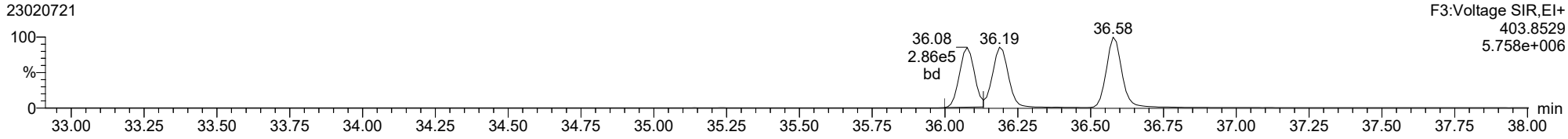
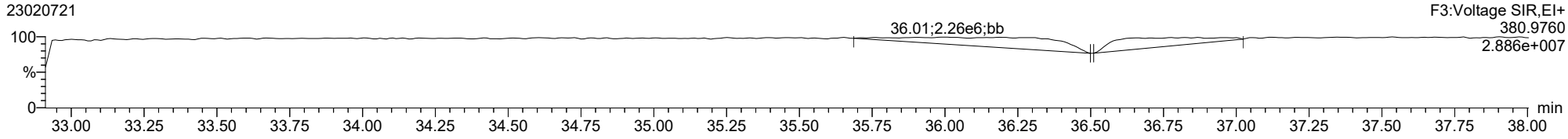


FUNCTION3 PFK



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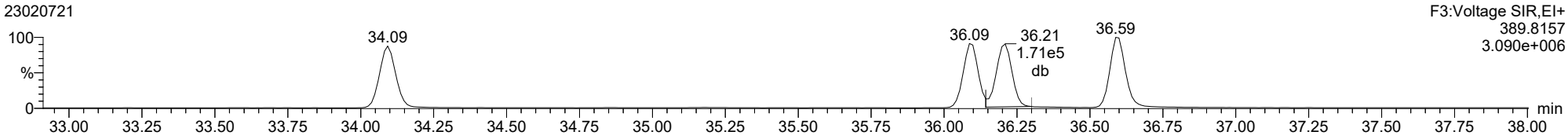

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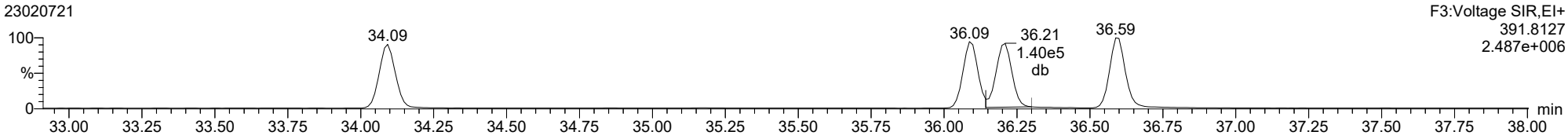

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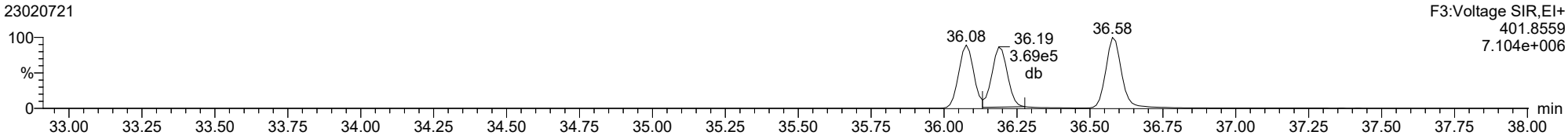

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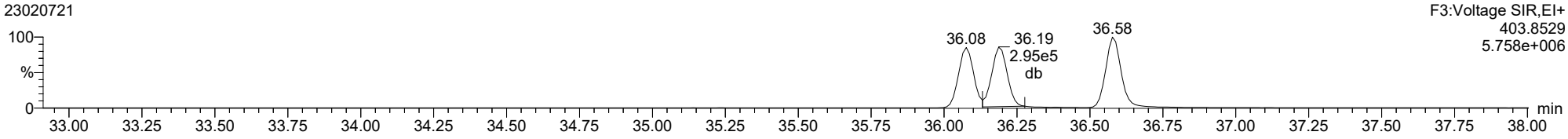

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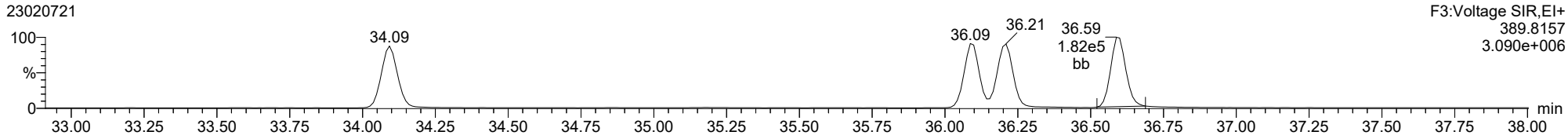

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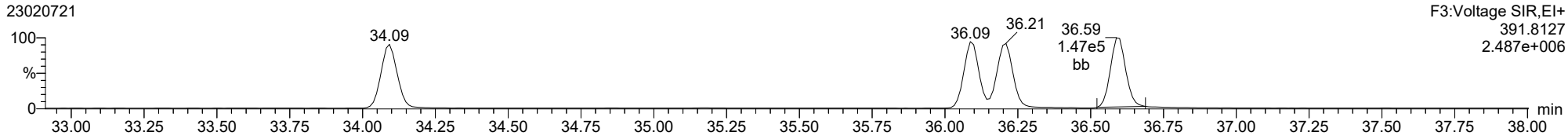

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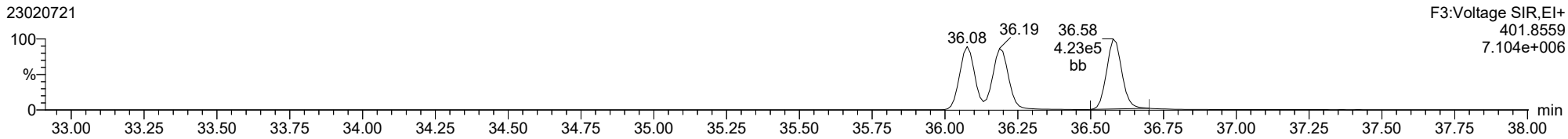

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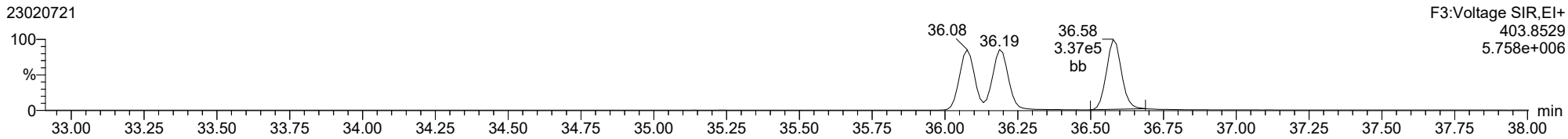

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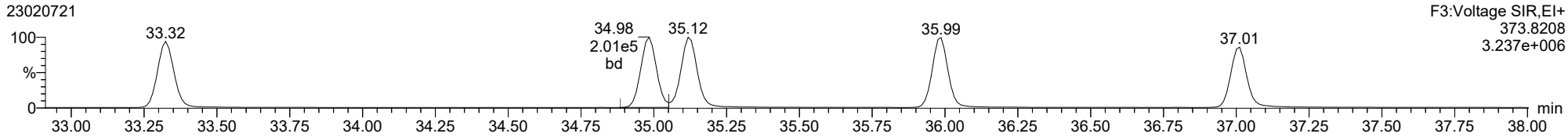

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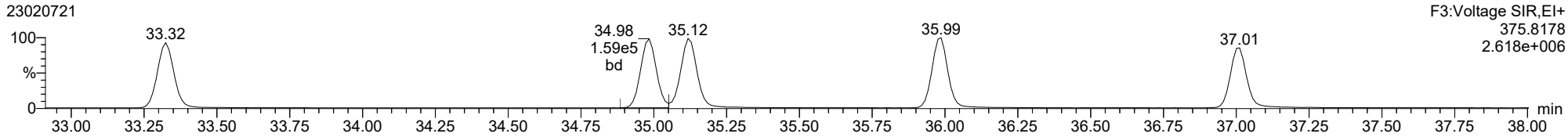

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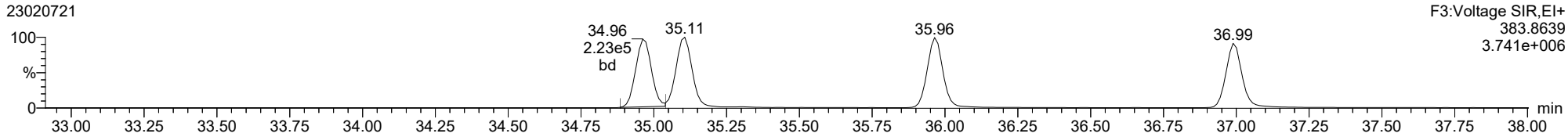

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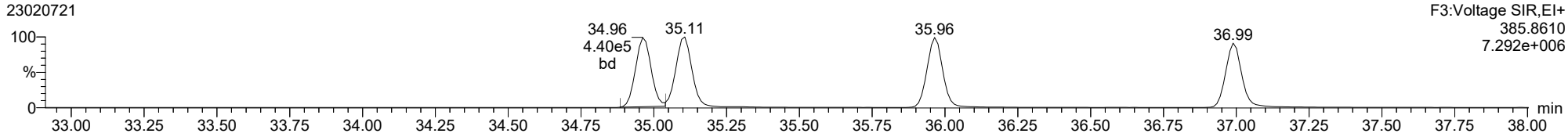

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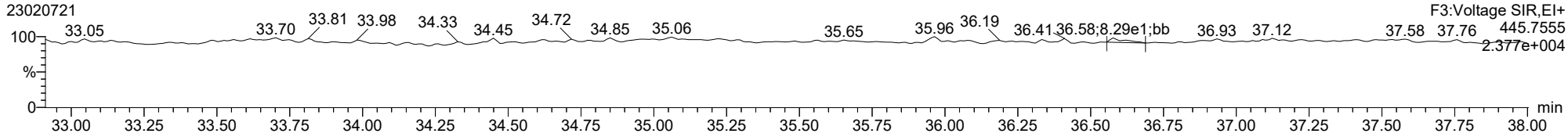

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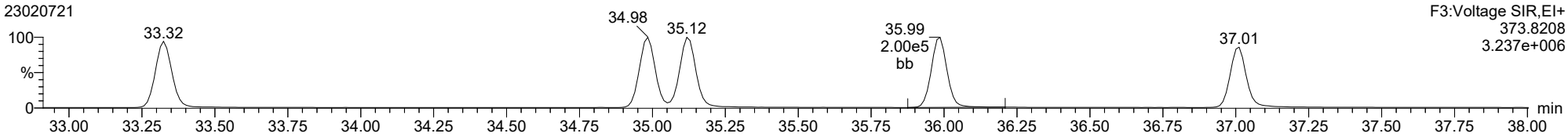
234678-HxCDF



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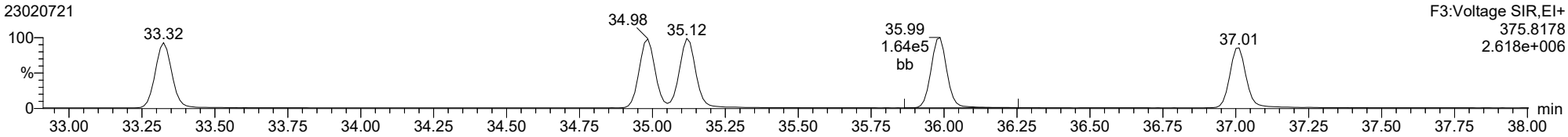

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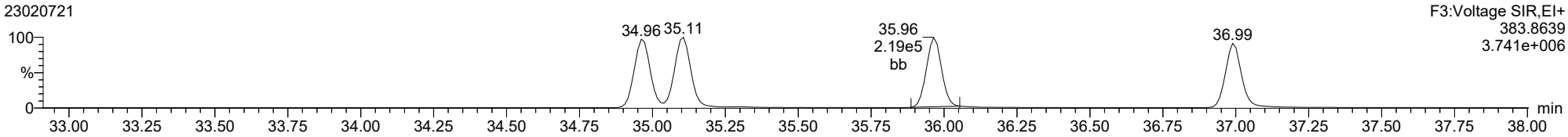

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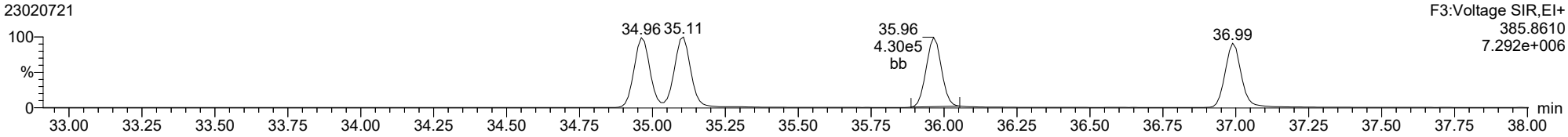
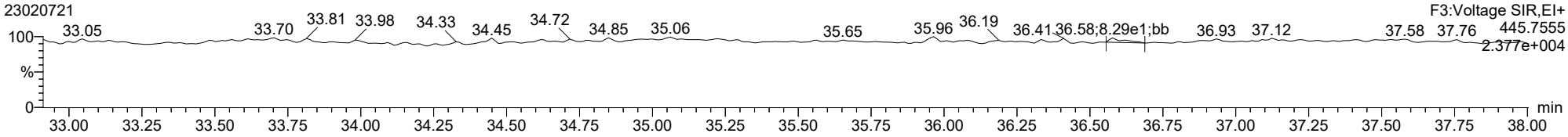


FUNCTION3 OCDPE



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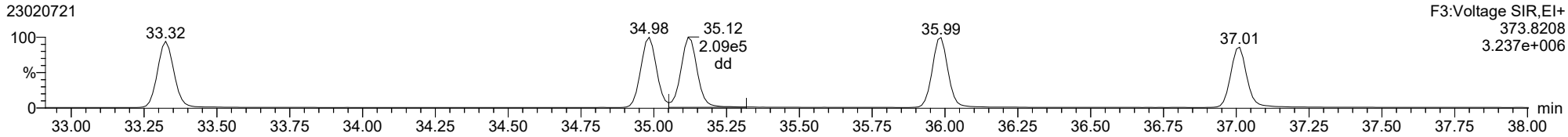

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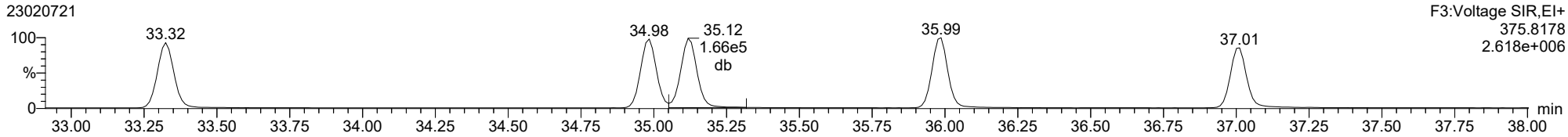

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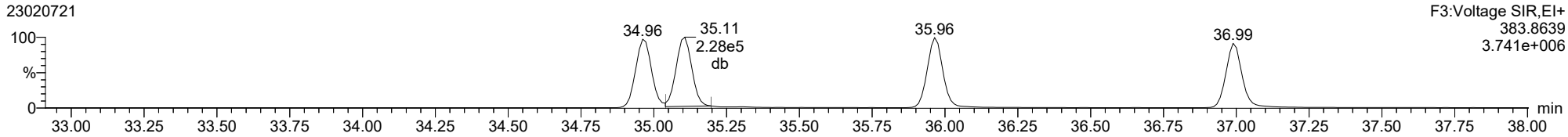

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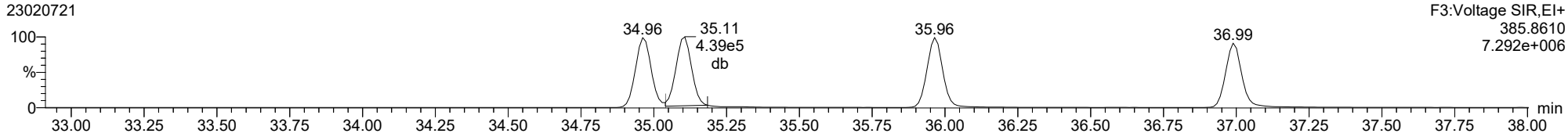
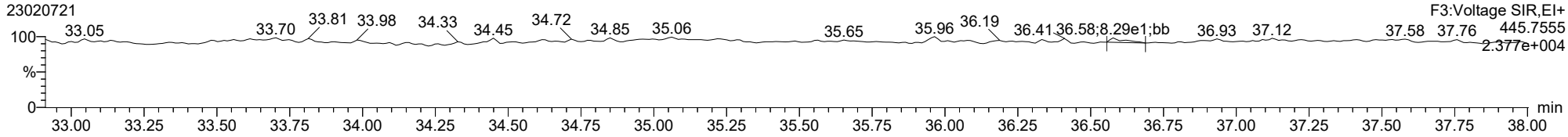


FUNCTION3 OCDPE



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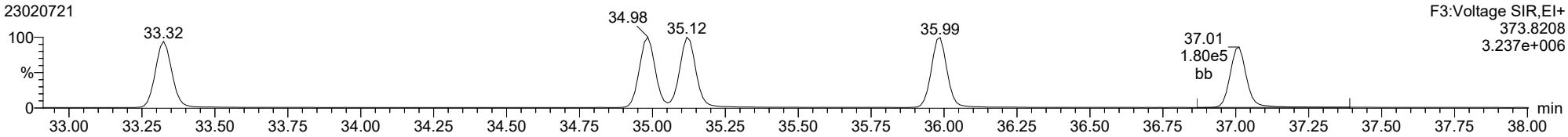
123789-HxCDF



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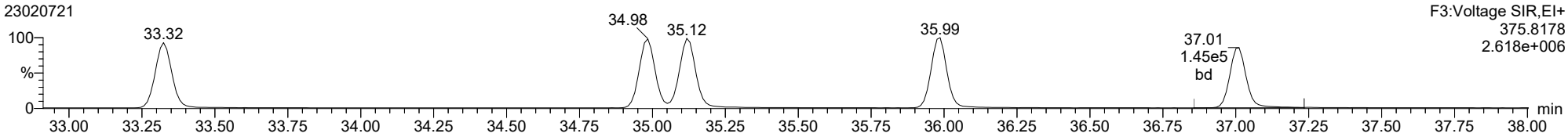

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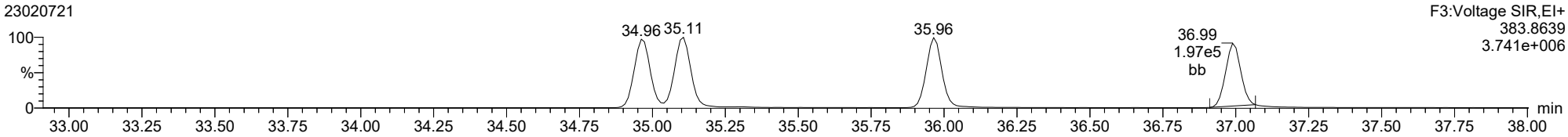

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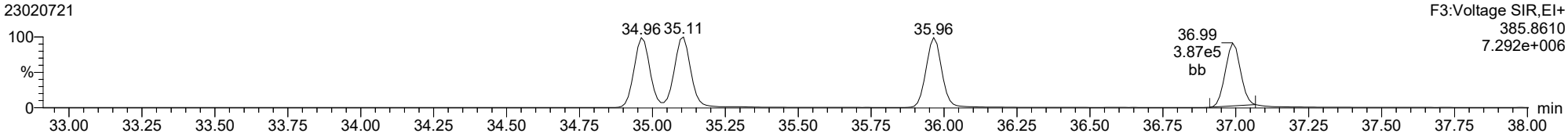
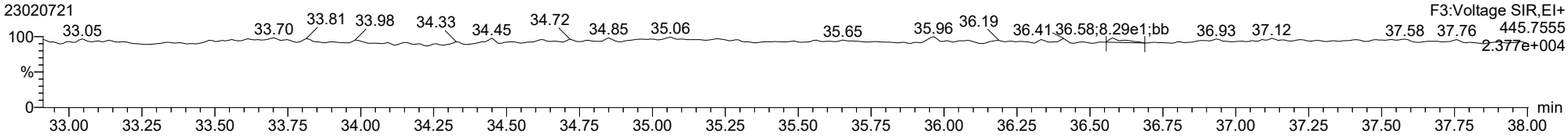


FUNCTION3 OCDPE



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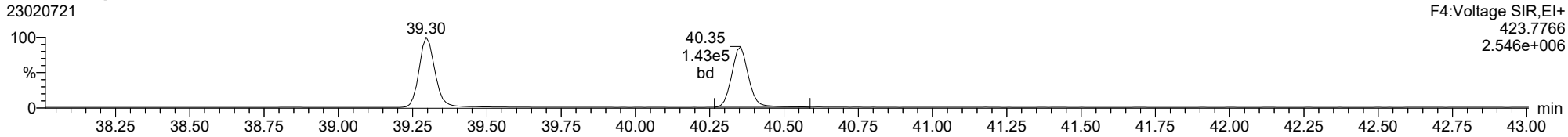
Printed: Wednesday, February 08, 2023 09:32:51 Pacific Standard Time

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD



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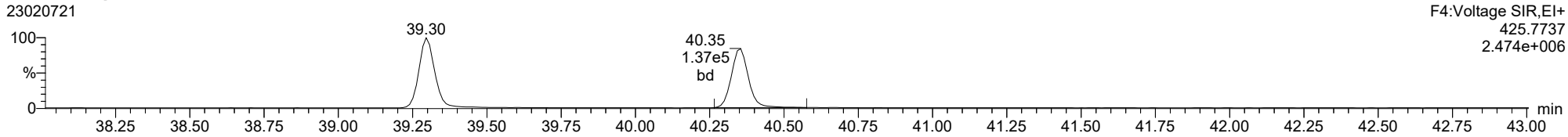

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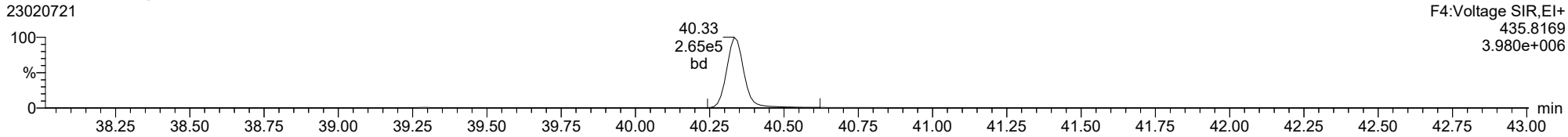

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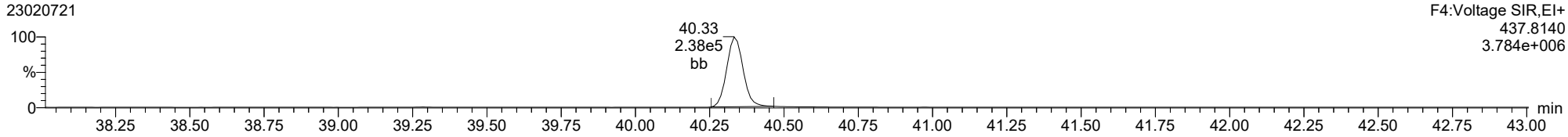

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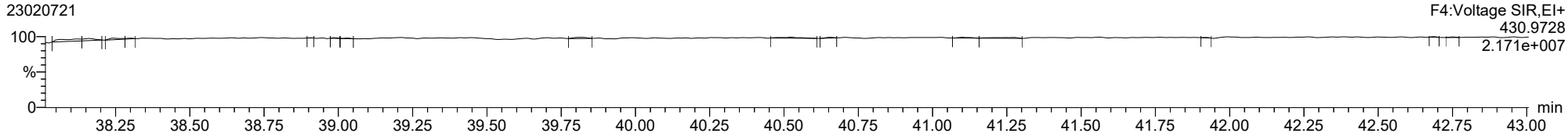

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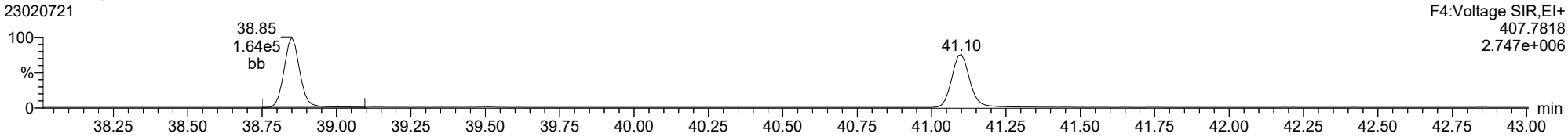

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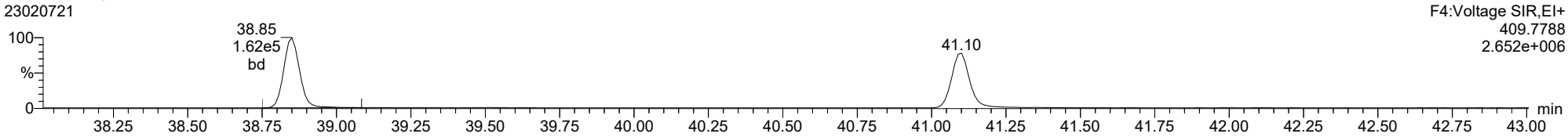

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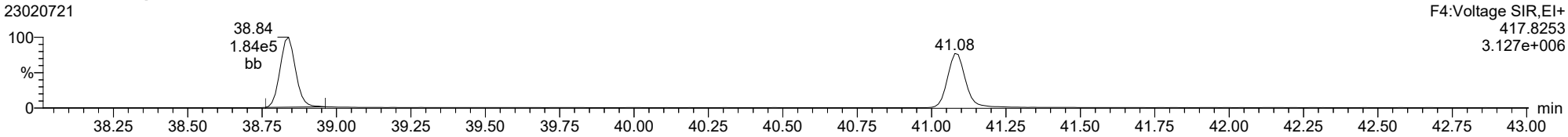

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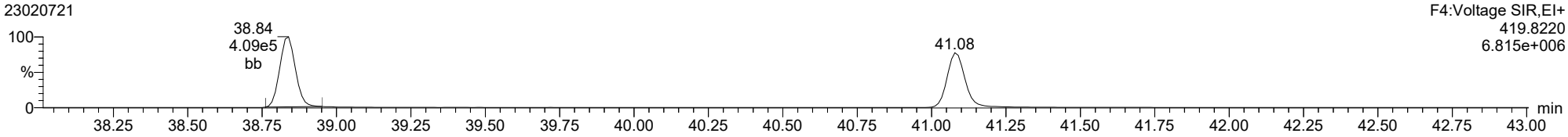

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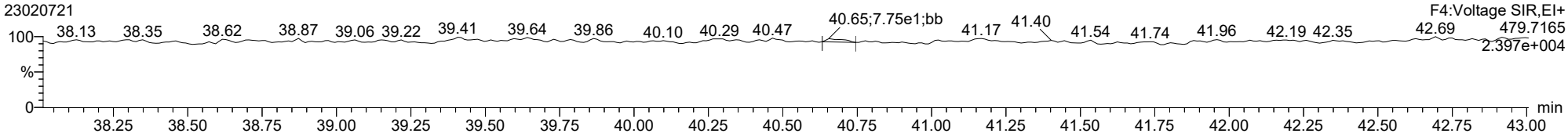

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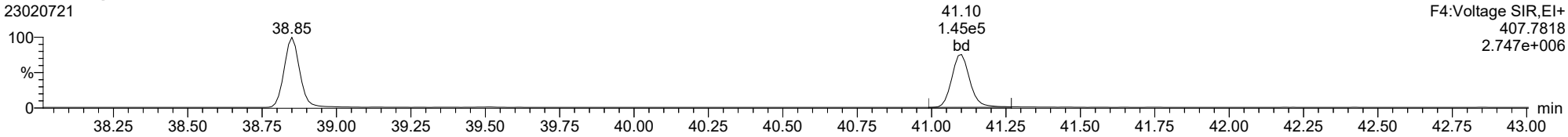

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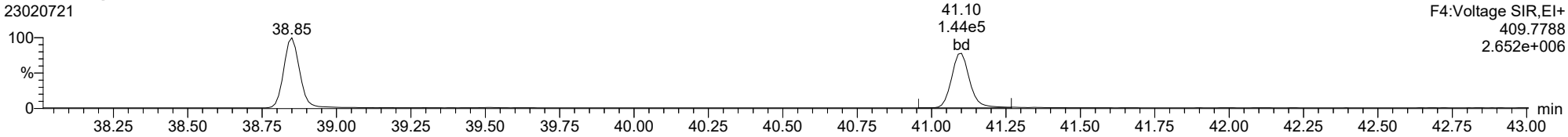

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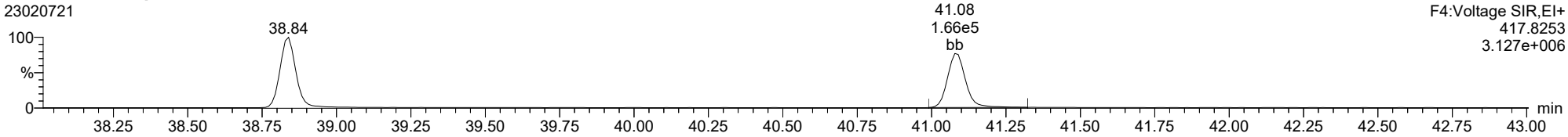

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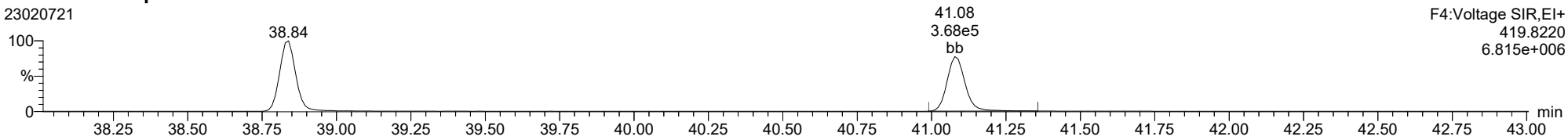

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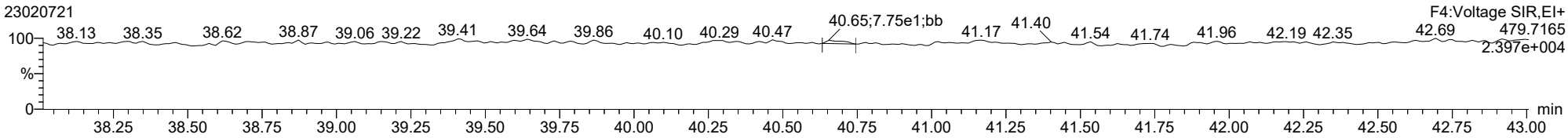

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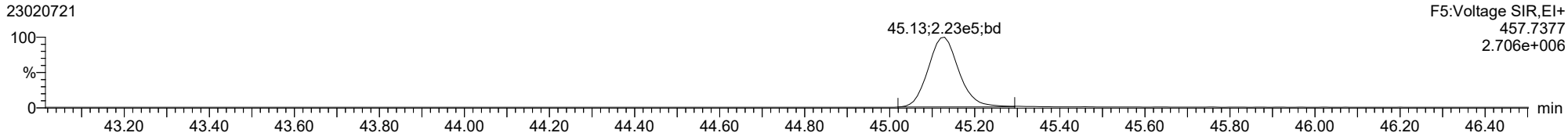

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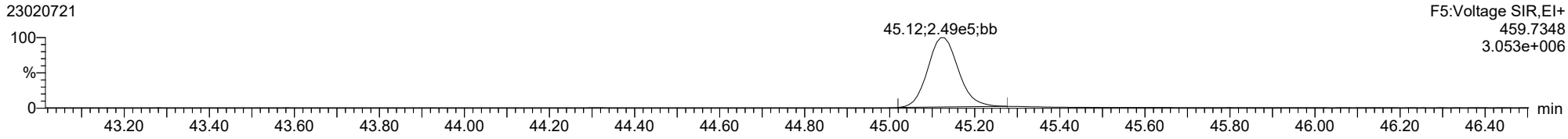

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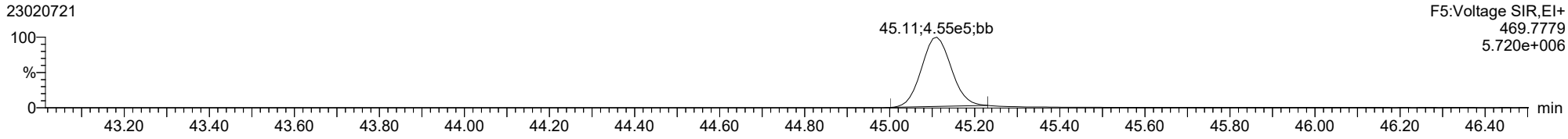

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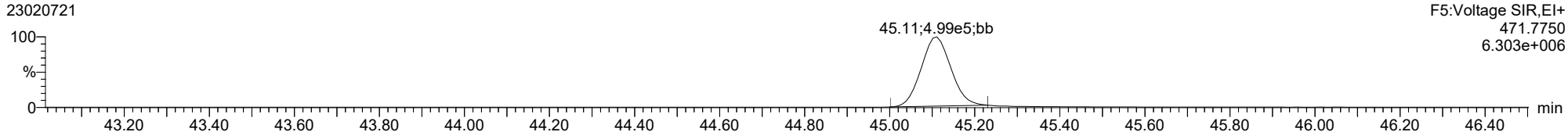

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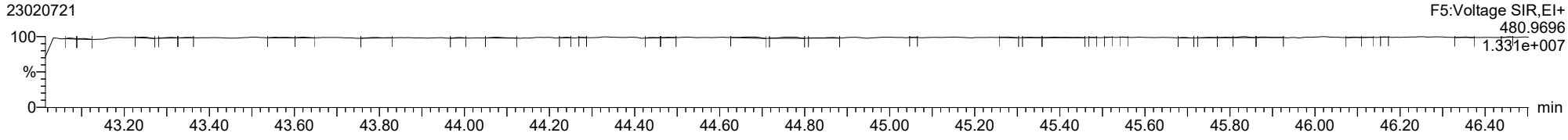

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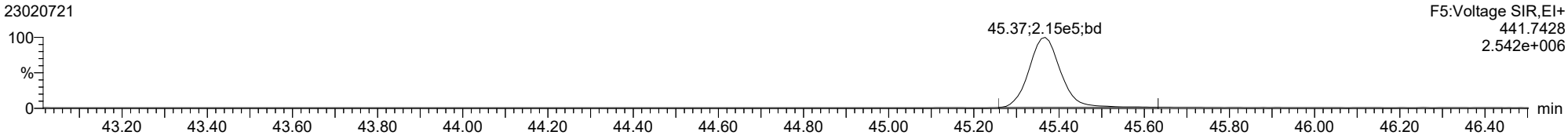

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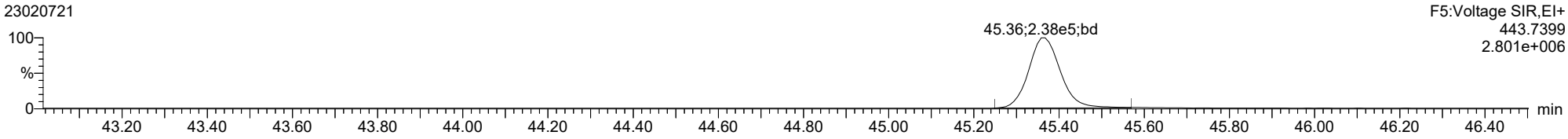

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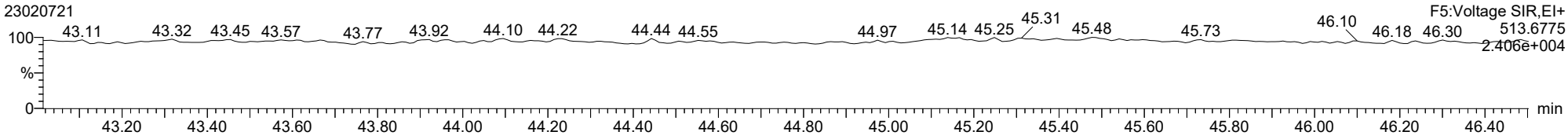

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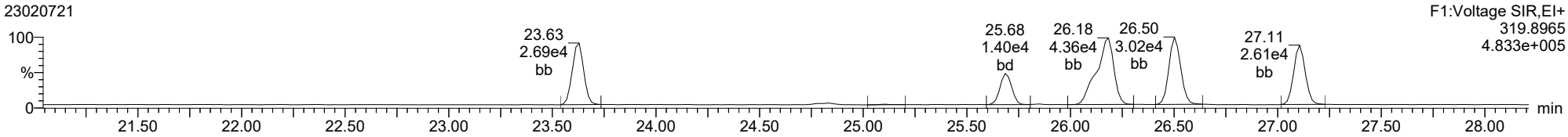

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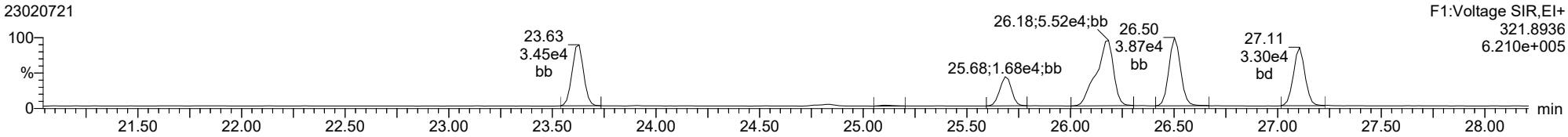

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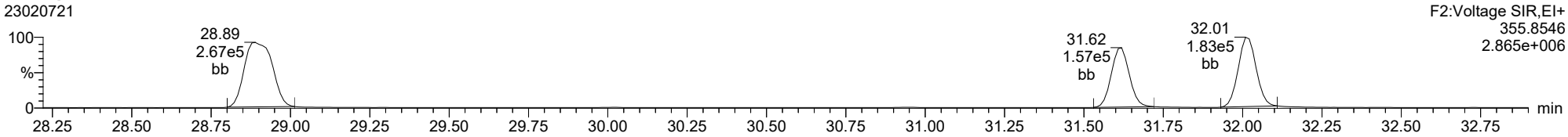

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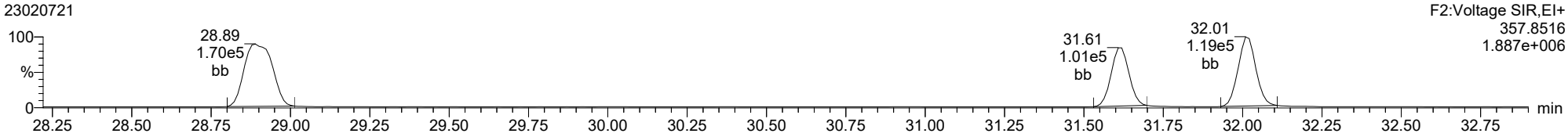

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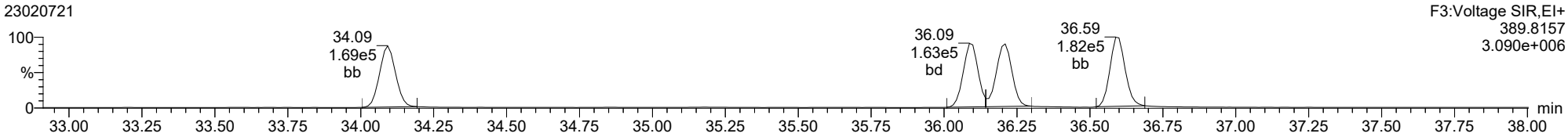
Total-hexadioxins



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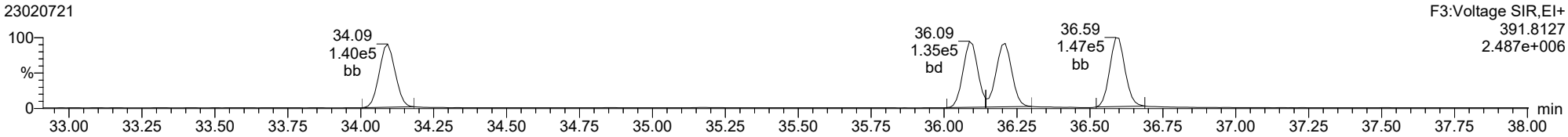

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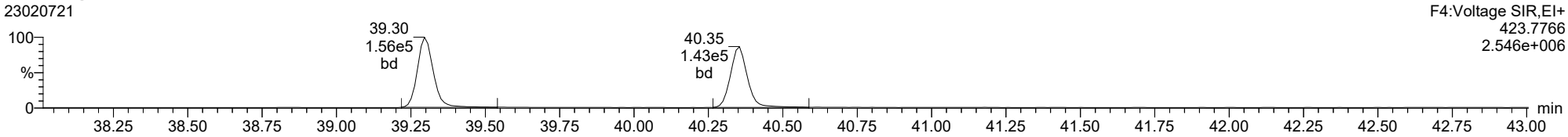

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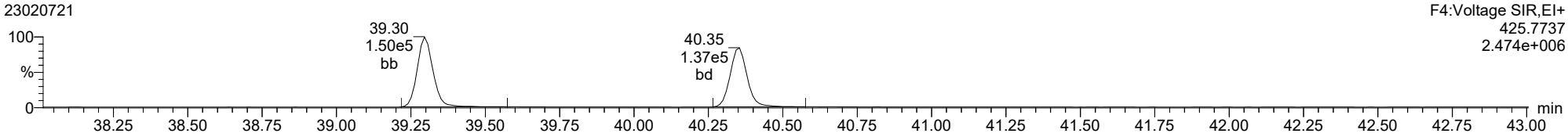

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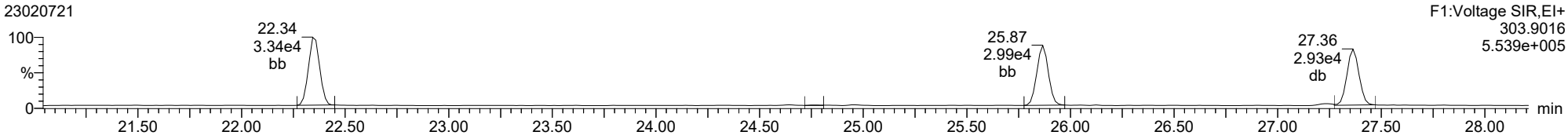
Total-tetrafurans



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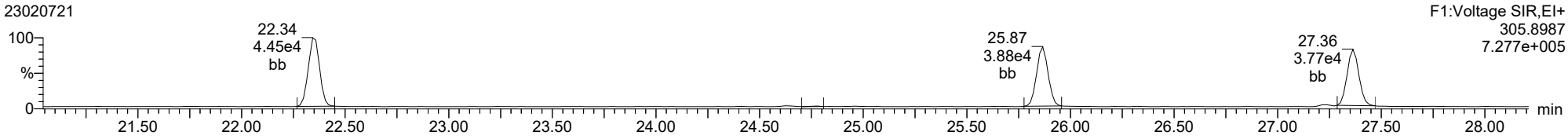

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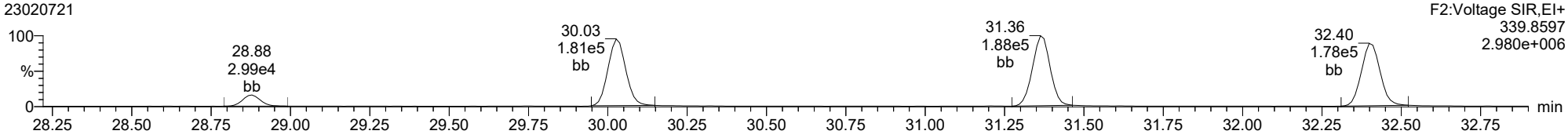

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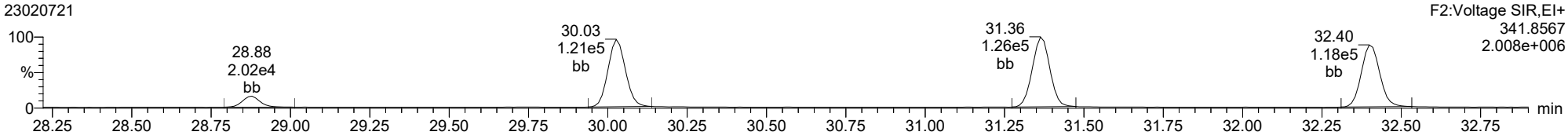

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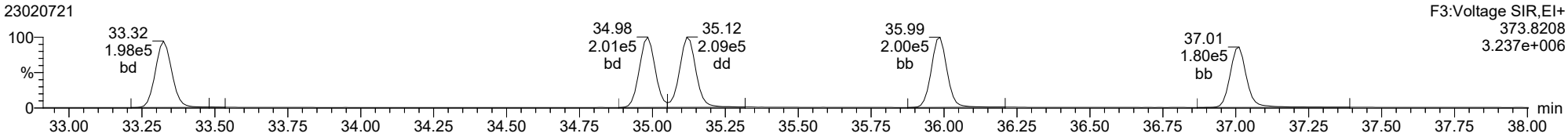
Total-hexafurans



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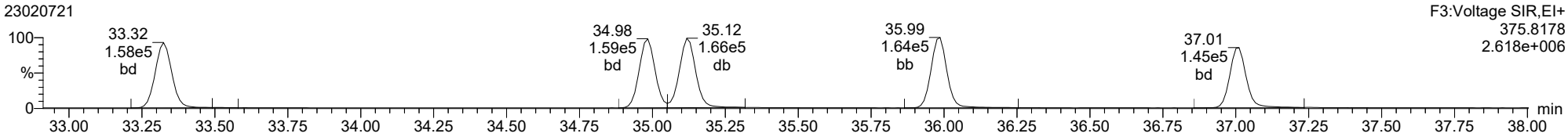

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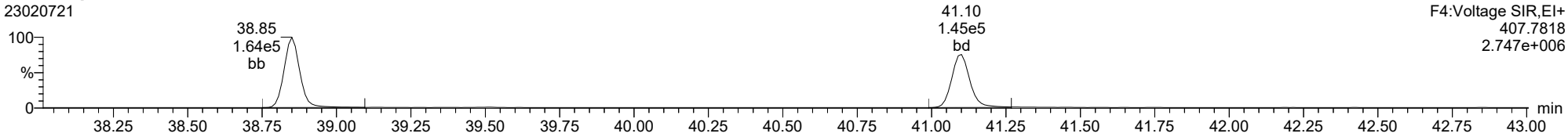

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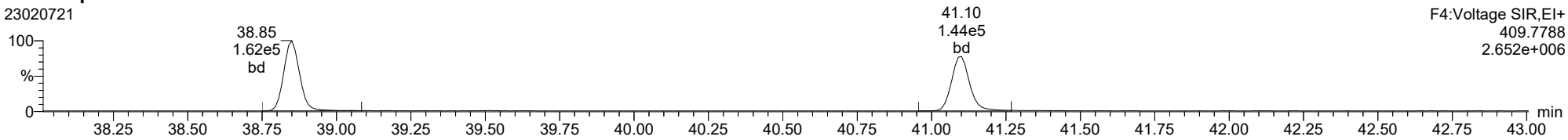

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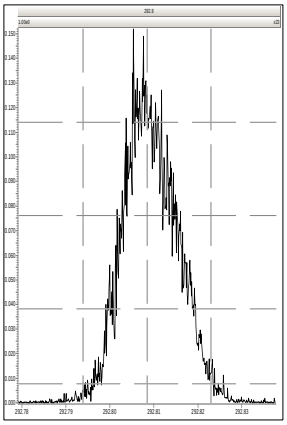

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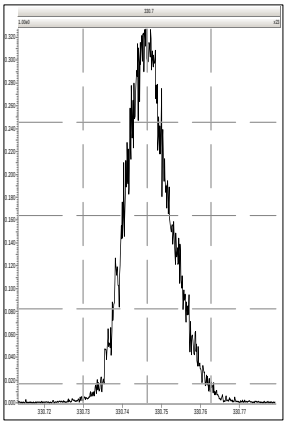

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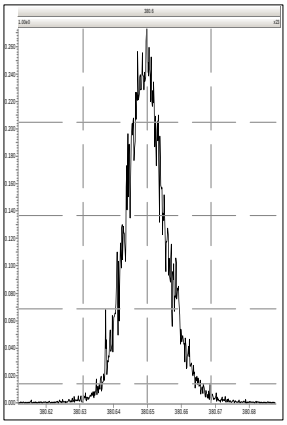

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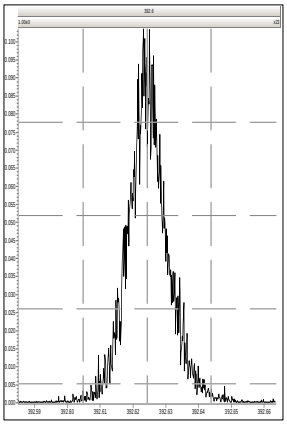

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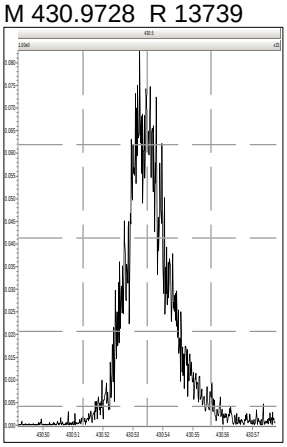

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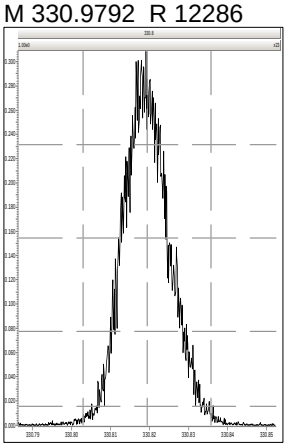

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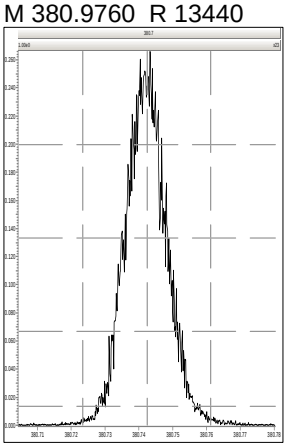

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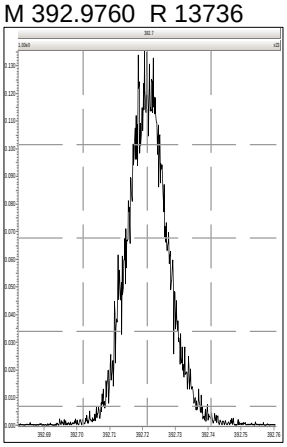

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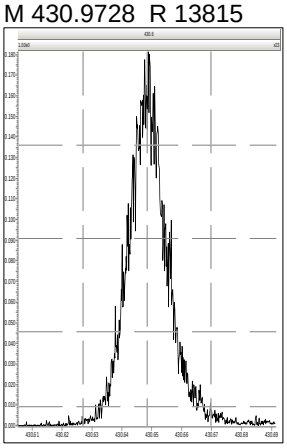
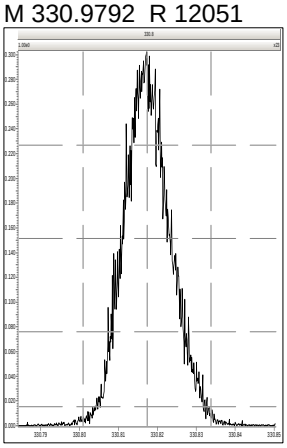
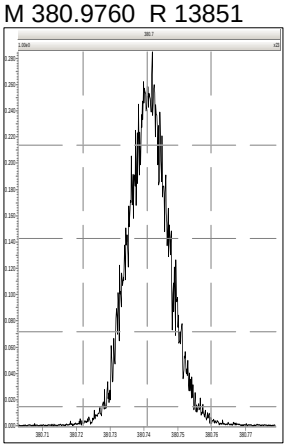


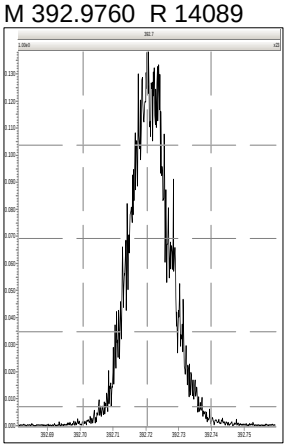
M 330.9792 R 12051



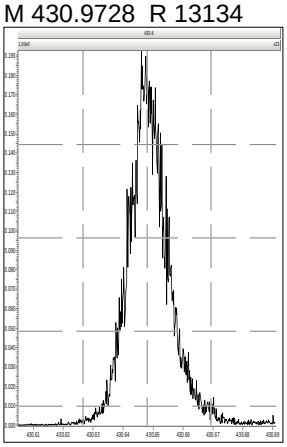
M 380.9760 R 13851



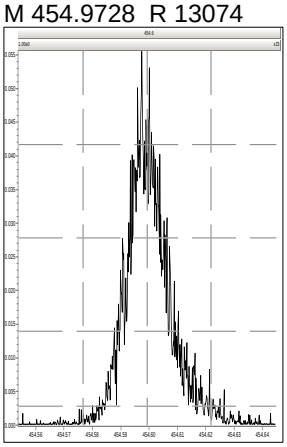
M 392.9760 R 14089



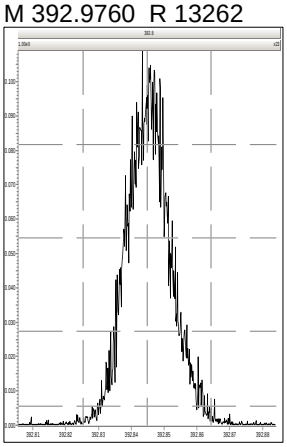
M 430.9728 R 13134



M 454.9728 R 13074



M 392.9760 R 13262



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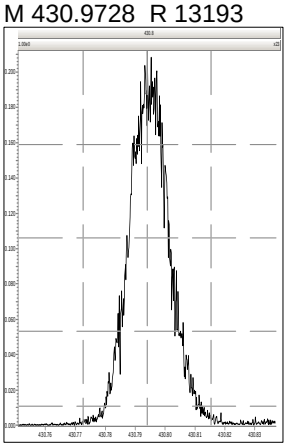
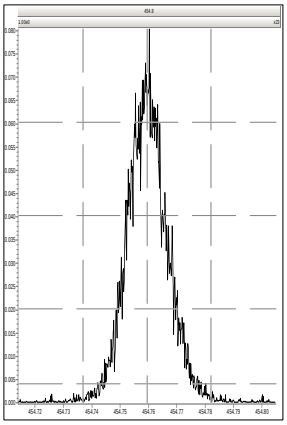
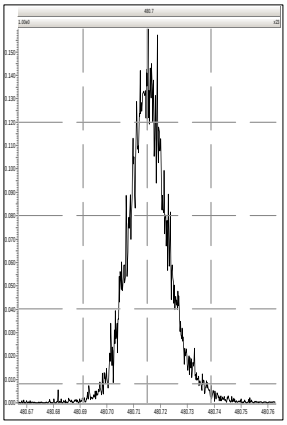


Printed: Wednesday, February 08, 2023 02:29:19 Pacific Standard Time

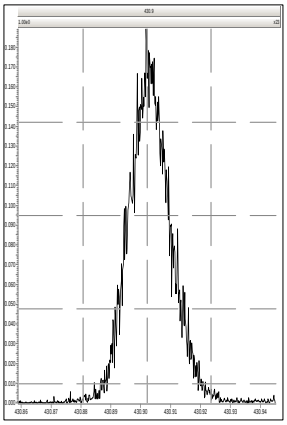
M 454.9728 R 14066



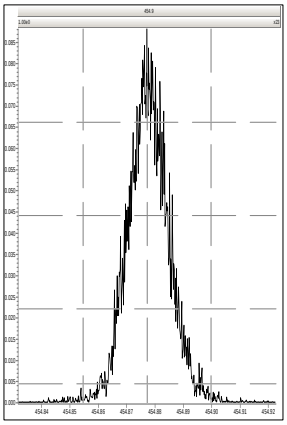
M 480.9696 R 13412



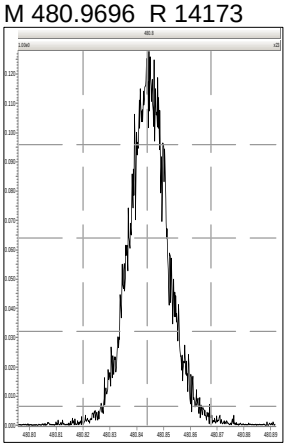
M 430.9728 R 14411



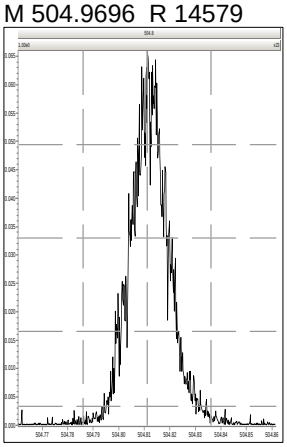
M 454.9728 R 15021



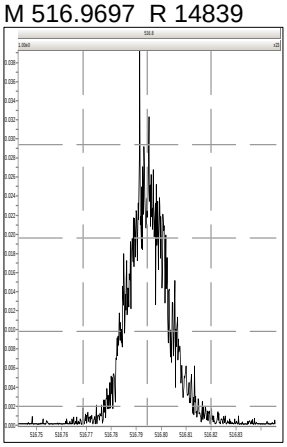
M 480.9696 R 14173

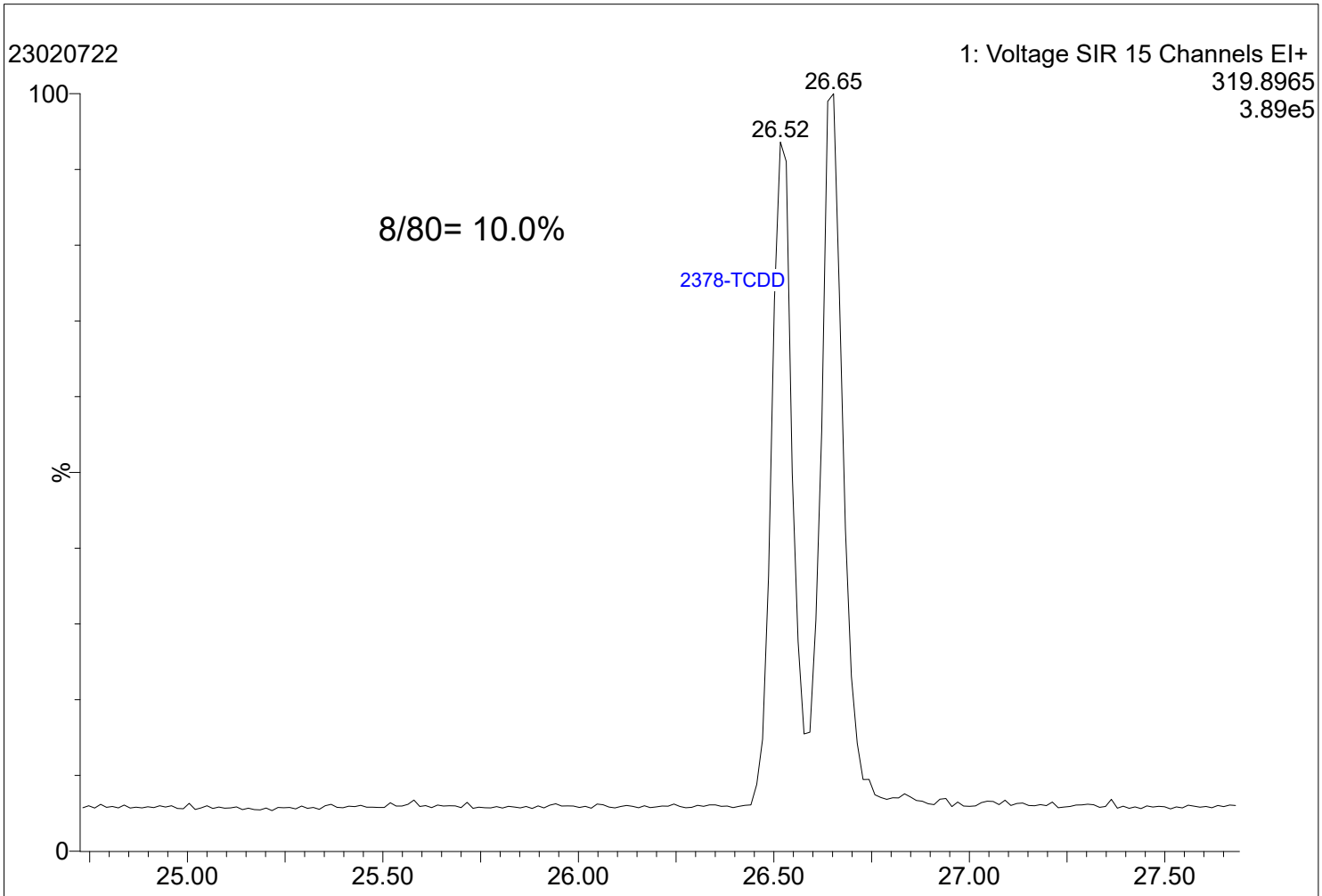


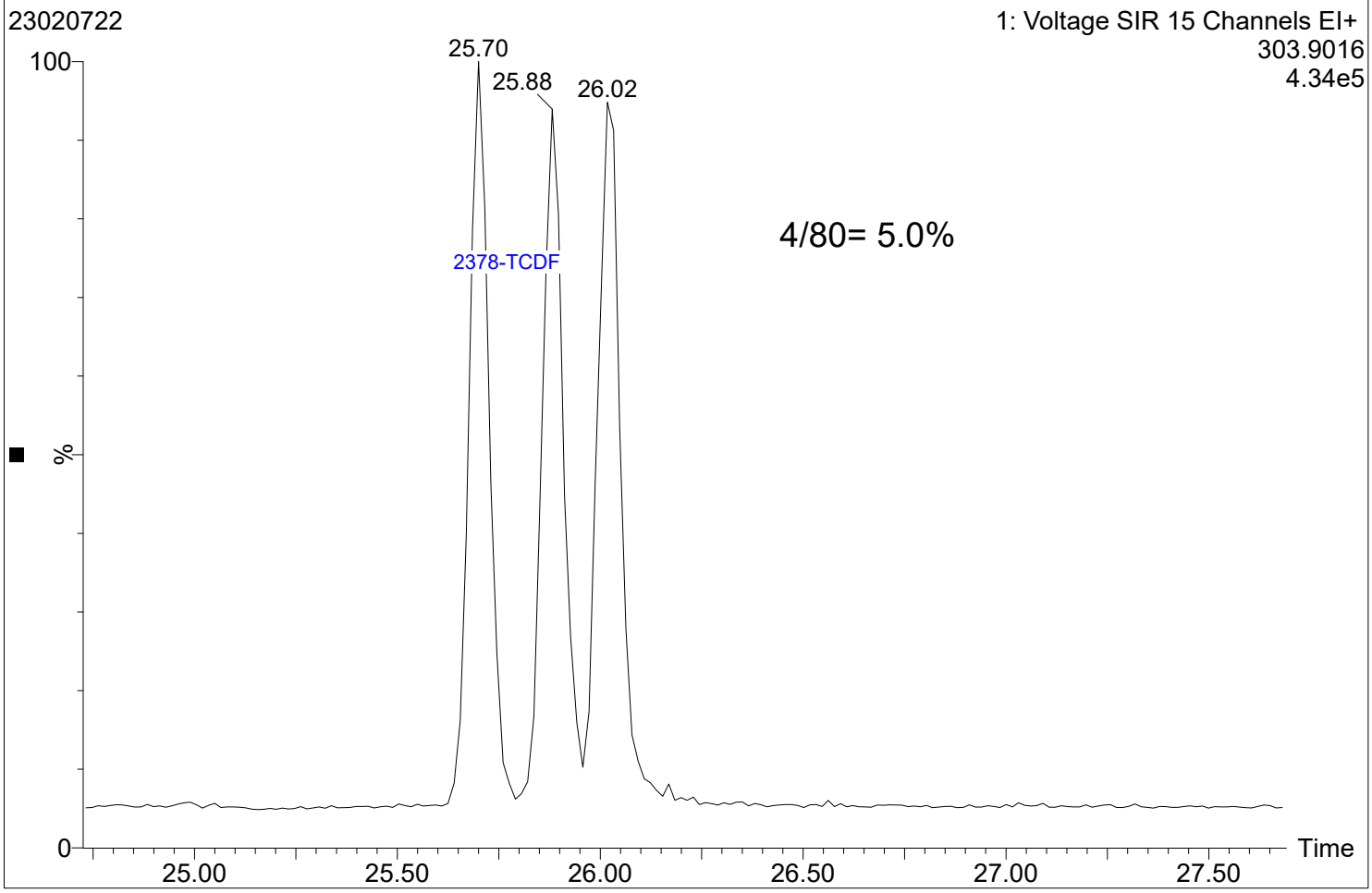
M 504.9696 R 14579



M 516.9697 R 14839




23020722
1: Voltage SIR 15 Channels EI+
319.8965
3.89e5
100
26.65
26.52
8/80= 10.0%
2378-TCDD
%
0
25.00
25.50
26.00
26.50
27.00
27.50


23020722
1: Voltage SIR 15 Channels EI+
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4.34e5
100
25.70
25.88
26.02
4/80= 5.0%
2378-TCDF
%
0
Time
25.00
25.50
26.00
26.50
27.00
27.50

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GB00010
Lab File ID:	23020733	Calibration Date:	02/01/2023
Sequence:	SLB0072	Injection Date:	02/08/23
Lab Sample ID:	SLB0072-CCV3	Injection Time:	11:35
Sequence Name:	CS3T4		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.32	0.8760604	0.8163078		-6.8	+/-16
2,3,7,8-TCDD	A	10.000	9.10	1.2363600	1.1246270		-9.0	+/-22
1,2,3,7,8-PeCDF	A	50.000	45.8	0.8446540	0.7741542		-8.3	+/-18
2,3,4,7,8-PeCDF	A	50.000	46.6	0.9111780	0.8493908		-6.8	+/-18
1,2,3,7,8-PeCDD	A	50.000	48.2	1.0866850	1.0472790		-3.6	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.8	1.1816860	1.1297060		-4.4	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	46.1	1.2480480	1.1511800		-7.8	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	47.9	1.2288500	1.1770570		-4.2	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	47.9	1.1865370	1.1371680		-4.2	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	44.6	0.9869672	0.8811099		-10.7	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	45.2	1.0207220	0.9230492		-9.6	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	46.5	0.9854780	0.9166071		-7.0	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	46.2	1.2041190	1.1121100		-7.6	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	47.2	1.1653050	1.0996630		-5.6	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	44.2	1.2525690	1.1061560		-11.7	+/-14
OCDF	A	100.00	84.3	1.1862640	1.0001830		-15.7	+/-37
OCDD	A	100.00	92.8	1.1026670	1.0228680		-7.2	+/-21
13C12-2,3,7,8-TCDF	A	100.00	90.3	1.7680590	1.5960653		-9.7	+/-29
13C12-2,3,7,8-TCDD	A	100.00	103	1.1029470	1.1389283		3.3	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	98.3	1.5271250	1.5018211		-1.7	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	95.8	1.4662840	1.4040983		-4.2	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	102	0.9141518	0.9315333		1.9	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	85.7	1.0536610	0.9026476		-14.3	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	87.9	1.0799530	0.9488578		-12.1	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	87.1	1.0143260	0.8834615		-12.9	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	85.1	0.9279333	0.7899308		-14.9	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	101	0.9329336	0.9393407		0.7	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	98.7	0.9646272	0.9517011		-1.3	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	81.2	1.0360890	0.8411297		-18.8	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	84.1	0.9049372	0.7610092		-15.9	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	90.4	0.7819773	0.7069767		-9.6	+/-28
13C12-OCDD	A	200.00	171	0.7882343	0.6747299		-14.4	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.90	1.2334500	1.0978430		-11.0	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230207D2.qld
Last Altered: Wednesday, February 08, 2023 13:13:24 Pacific Standard Time
Printed: Wednesday, February 08, 2023 13:18:03 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.851	1.001	2.595e4	3.559e4	0.876	0.729	0.770	1011	964	3.80e5	5.20e5	375.6	539.5	NO	bb	bb	9.318
12378-PeCDF	30.026	1.001	1.647e5	1.099e5	0.845	1.499	1.550	1598	1774	2.55e6	1.66e6	1594.7	937.4	NO	bb	bb	45.827
23478-PeCDF	31.363	1.001	1.673e5	1.143e5	0.911	1.463	1.550	1598	1774	2.57e6	1.73e6	1605.4	973.3	NO	bb	bb	46.609
123478-HxCDF	34.973	1.000	1.704e5	1.372e5	1.182	1.242	1.240	1781	1047	2.66e6	2.14e6	1491.4	2042.5	NO	bd	bd	47.801
234678-HxCDF	35.976	1.000	1.745e5	1.392e5	1.229	1.253	1.240	1781	1047	2.67e6	2.19e6	1497.7	2095.3	NO	bb	bd	47.893
123678-HxCDF	35.118	1.001	1.844e5	1.451e5	1.248	1.271	1.240	1781	1047	2.74e6	2.16e6	1535.7	2058.4	NO	dd	dd	46.119
123789-HxCDF	37.001	1.000	1.496e5	1.214e5	1.187	1.232	1.240	1781	1047	2.29e6	1.85e6	1285.4	1769.3	NO	bd	bd	47.920
1234678-HpCDF	38.850	1.000	1.416e5	1.406e5	1.204	1.007	1.050	1328	1605	2.28e6	2.27e6	1713.2	1413.4	NO	bd	bd	46.179
1234789-HpCDF	41.090	1.000	1.274e5	1.250e5	1.165	1.019	1.050	1328	1605	1.74e6	1.75e6	1309.1	1087.9	NO	bd	bd	47.183
OCDF	45.367	1.006	1.913e5	2.158e5	1.186	0.886	0.890	1736	1046	2.24e6	2.47e6	1289.4	2358.5	NO	bd	bd	84.314
2378-TCDD	26.502	1.001	2.619e4	3.431e4	1.236	0.763	0.770	1279	1150	3.89e5	4.88e5	303.7	424.5	NO	bb	bb	9.096
12378-PeCDD	31.608	1.001	1.393e5	9.105e4	1.087	1.531	1.550	1667	1109	2.18e6	1.43e6	1309.8	1285.1	NO	bb	bb	48.187
123478-HxCDD	36.087	1.000	1.362e5	1.135e5	0.987	1.201	1.240	1259	1362	2.29e6	1.90e6	1816.1	1397.6	NO	bd	bd	44.637
123678-HxCDD	36.199	1.000	1.438e5	1.212e5	1.021	1.187	1.240	1259	1362	2.37e6	2.01e6	1884.3	1476.1	NO	db	db	45.216
123789-HxCDD	36.589	1.011	1.437e5	1.177e5	0.985	1.221	1.240	1259	1362	2.35e6	1.96e6	1869.7	1435.9	NO	bb	bb	46.506
1234678-HpCDD	40.343	1.000	1.197e5	1.163e5	1.253	1.029	1.050	1436	1222	1.76e6	1.68e6	1224.8	1373.6	NO	bd	bd	44.156
OCDD	45.129	1.000	1.970e5	2.194e5	1.103	0.898	0.890	1128	1220	2.36e6	2.66e6	2087.8	2176.6	NO	bd	bb	92.763
13C-2378-TCDF	25.836	1.007	3.313e5	4.225e5	1.768	0.784	0.770	1988	1369	5.04e6	6.45e6	2534.5	4710.8	NO	bb	bb	90.272
13C-12378-PeCDF	30.004	1.170	4.343e5	2.751e5	1.527	1.579	1.550	1901	2096	6.46e6	4.12e6	3400.2	1967.6	NO	bd	bb	98.343
13C-23478-PeCDF	31.341	1.222	4.016e5	2.616e5	1.466	1.535	1.550	1901	2096	6.09e6	3.98e6	3204.6	1898.8	NO	bb	bb	95.759
13C-123478-HxCDF	34.962	0.956	1.837e5	3.608e5	1.054	0.509	0.510	1514	2118	2.97e6	5.80e6	1963.4	2739.4	NO	bd	bd	85.668
13C-123678-HxCDF	35.096	0.959	1.947e5	3.778e5	1.080	0.515	0.510	1514	2118	3.00e6	5.95e6	1982.4	2811.2	NO	db	db	87.861
13C-234678-HxCDF	35.965	0.983	1.804e5	3.526e5	1.014	0.512	0.510	1514	2118	2.94e6	5.87e6	1940.6	2773.3	NO	bb	bb	87.098
13C-123789-HxCDF	36.990	1.011	1.599e5	3.166e5	0.928	0.505	0.510	1514	2118	2.66e6	5.19e6	1756.4	2448.8	NO	bb	bb	85.128
13C-1234678-HpCDF	38.839	1.062	1.567e5	3.508e5	1.036	0.447	0.440	1790	1881	2.61e6	5.74e6	1460.2	3053.0	NO	bb	bb	81.183
13C-1234789-HpCDF	41.078	1.123	1.420e5	3.171e5	0.905	0.448	0.440	1790	1881	2.00e6	4.44e6	1117.8	2360.5	NO	bd	bb	84.095
13C-1234-TCDD	25.655	0.000	2.074e5	2.649e5	1.000	0.783	0.770	1577	988	3.26e6	4.16e6	2065.6	4206.9	NO	bb	bb	100.000
13C-2378-TCDD	26.471	1.032	2.373e5	3.007e5	1.103	0.789	0.770	1577	988	3.67e6	4.67e6	2323.6	4722.5	NO	bb	bb	103.262
13C-12378-PeCDD	31.586	1.231	2.713e5	1.687e5	0.914	1.608	1.550	850	966	3.93e6	2.47e6	4624.1	2559.2	NO	bd	bd	101.901
13C-123478-HxCDD	36.076	0.986	3.176e5	2.492e5	0.933	1.275	1.240	1376	1452	5.18e6	4.06e6	3763.0	2794.3	NO	bd	bd	100.687
13C-123678-HxCDD	36.188	0.989	3.196e5	2.545e5	0.965	1.256	1.240	1376	1452	5.40e6	4.29e6	3924.1	2956.1	NO	db	db	98.660
13C-1234678-HpCDD	40.332	1.103	2.263e5	2.003e5	0.782	1.130	1.050	1149	1164	3.34e6	3.03e6	2910.2	2599.9	NO	bd	bb	90.409
13C-OCDD	45.111	1.233	3.893e5	4.249e5	0.788	0.916	0.890	1594	1662	4.73e6	5.18e6	2969.4	3119.4	NO	bb	bb	171.200
13C-123789-HxCDD	36.577	0.000	3.344e5	2.689e5	1.000	1.243	1.240	1376	1452	5.46e6	4.35e6	3969.9	2998.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.486	1.032	5.185e4		1.233			1333		7.75e5		581.1			bb		8.901

Dataset: T:\Autospec\Processed Data Batch\230207D2.qld
Last Altered: Wednesday, February 08, 2023 13:13:24 Pacific Standard Time
Printed: Wednesday, February 08, 2023 13:18:03 Pacific Standard Time

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.344	0.865	2.874e4	3.783e4	1.064	0.760	0.770	1011	964	4.55e5	5.89e5	450.2	610.4	NO	bb	bb	8.296
1289-TCDF	27.348	1.059	2.517e4	3.285e4	0.858	0.766	0.770	1011	964	3.58e5	4.71e5	353.8	488.9	NO	db	db	8.975
13468-PECDF	27.212	0.907	2.244e5	1.469e5	1.013	1.528	1.550	721	1118	3.48e6	2.26e6	4825.2	2023.9	NO	bb	bb	51.665
12389-PECDF	32.399	1.080	1.582e5	1.060e5	0.844	1.493	1.550	1598	1774	2.29e6	1.54e6	1431.2	865.5	NO	bb	bb	44.146
123468-HXCDF	33.324	0.953	1.725e5	1.391e5	1.197	1.240	1.240	1781	1047	2.55e6	2.04e6	1430.3	1943.3	NO	bb	bb	47.789
1368-TCDD	23.614	0.892	2.431e4	3.146e4	1.084	0.773	0.770	1279	1150	3.80e5	4.94e5	297.1	429.8	NO	bb	bb	9.560
1289-TCDD	27.091	1.023	2.271e4	2.943e4	0.975	0.772	0.770	1279	1150	3.22e5	4.40e5	251.5	382.6	NO	bd	bb	9.940
12479-PECDD	28.879	0.914	2.336e5	1.521e5	1.837	1.536	1.550	1667	1109	2.33e6	1.49e6	1396.3	1345.9	NO	bb	bb	47.715
12389-PECDD	32.009	1.013	1.605e5	1.044e5	1.252	1.538	1.550	1667	1109	2.43e6	1.60e6	1457.6	1444.0	NO	bb	bb	48.067
124679-HXCDD	34.082	0.945	1.433e5	1.180e5	1.033	1.214	1.240	1259	1362	2.21e6	1.81e6	1755.1	1330.9	NO	bb	bb	44.638
1234679-HPCDD	39.296	0.974	1.318e5	1.267e5	1.286	1.040	1.050	1436	1222	2.05e6	1.97e6	1429.7	1613.1	NO	bd	bd	47.135
Total-tetrafurans			8.037e4		0.933			1011		1.20e6							26.757
Total-penta1			2.244e5					721		3.48e6							51.665
Total-pentafurans			5.162e5		0.866			1598		7.80e6							143.918
Total-hexafurans			8.514e5		1.208			1781		1.29e7							237.521
Total-heptafurans			2.692e5		1.185			1328		4.02e6							93.434
Total-Furans			2.133e6		1.067			1011		3.16e7							637.609
Total-tetradioxins			1.252e5		1.099			1279		1.69e6							48.306
Total-pentadioxins			5.334e5		1.392			1667		6.94e6							143.969
Total-hexadioxins			5.670e5		1.007			1259		9.22e6							180.996
Total-heptadioxins			2.515e5		1.269			1436		3.81e6							91.291
Total-Dioxins			1.674e6		1.165			1279		2.40e7							557.325
Total-TEQ			3.807e6					1279		5.56e7							1194.935
FUNCTION1 PFK			0.000e0					793780		0.00e0							
FUNCTION2 PFK			2.735e5					366736		9.42e6							0.000
FUNCTION3 PFK			2.458e5					325510		6.97e6							0.000
FUNCTION4 PFK			0.000e0					196590		0.00e0							
FUNCTION5 PFK			7.096e4					116348		2.59e6							
FUNCTION1 HXCD...			4.601e2					668		5.59e3							0.000
FUNCTION1 HPCD...			4.907e2					687		7.15e3							0.000
FUNCTION2 HPCD...			5.211e2					937		8.72e3							0.000
FUNCTION3 OCDPE			7.760e1					700		1.58e3							0.000
FUNCTION4 NCDPE			1.116e2					686		1.57e3							0.000
FUNCTION5 DCDPE			7.691e1					539		1.55e3							0.000

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.35	2.517e4	3.285e4	0.858	0.77	0.77	353.8	YES	NO	db	db	8.975
2	Total-tetrafurans	27.21	5.045e2	6.815e2	0.933	0.74	0.77	7.4	YES	NO	bd	bd	0.169
3	2378-TCDF	25.85	2.595e4	3.559e4	0.876	0.73	0.77	375.6	YES	NO	bb	bb	9.318
4	1368-TCDF	22.34	2.874e4	3.783e4	1.064	0.76	0.77	450.2	YES	NO	bb	bb	8.296

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.21	2.244e5	1.469e5	1.013	1.53	1.55	4825.2	YES	NO	bb	bb	51.665

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.40	1.582e5	1.060e5	0.844	1.49	1.55	1431.2	YES	NO	bb	bb	44.146
2	23478-PeCDF	31.36	1.673e5	1.143e5	0.911	1.46	1.55	1605.4	YES	NO	bb	bb	46.609
3	12378-PeCDF	30.03	1.647e5	1.099e5	0.845	1.50	1.55	1594.7	YES	NO	bb	bb	45.827
4	Total-pentafurans	28.87	2.598e4	1.765e4	0.866	1.47	1.55	247.2	YES	NO	bb	bb	7.336

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.98	1.745e5	1.392e5	1.229	1.25	1.24	1497.7	YES	NO	bb	bd	47.893
2	123678-HxCDF	35.12	1.844e5	1.451e5	1.248	1.27	1.24	1535.7	YES	NO	dd	dd	46.119
3	123478-HxCDF	34.97	1.704e5	1.372e5	1.182	1.24	1.24	1491.4	YES	NO	bd	bd	47.801
4	123468-HXCDF	33.32	1.725e5	1.391e5	1.197	1.24	1.24	1430.3	YES	NO	bb	bb	47.789
5	123789-HxCDF	37.00	1.496e5	1.214e5	1.187	1.23	1.24	1285.4	YES	NO	bd	bd	47.920

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.09	1.274e5	1.250e5	1.165	1.02	1.05	1309.1	YES	NO	bd	bd	47.183
2	Total-heptafurans	39.14	2.026e2	2.062e2	1.185	0.98	1.05	4.2	YES	NO	db	db	0.071
3	1234678-HpCDF	38.85	1.416e5	1.406e5	1.204	1.01	1.05	1713.2	YES	NO	bd	bd	46.179

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.35	2.517e4	3.285e4	0.858	0.77	0.77	353.8	YES	NO	db	db	8.975
2	Total-tetrafurans	27.21	5.045e2	6.815e2	0.933	0.74	0.77	7.4	YES	NO	bd	bd	0.169
3	2378-TCDF	25.85	2.595e4	3.559e4	0.876	0.73	0.77	375.6	YES	NO	bb	bb	9.318
4	1368-TCDF	22.34	2.874e4	3.783e4	1.064	0.76	0.77	450.2	YES	NO	bb	bb	8.296
5	12389-PECDF	32.40	1.582e5	1.060e5	0.844	1.49	1.55	1431.2	YES	NO	bb	bb	44.146
6	23478-PeCDF	31.36	1.673e5	1.143e5	0.911	1.46	1.55	1605.4	YES	NO	bb	bb	46.609
7	12378-PeCDF	30.03	1.647e5	1.099e5	0.845	1.50	1.55	1594.7	YES	NO	bb	bb	45.827
8	Total-pentafurans	28.87	2.598e4	1.765e4	0.866	1.47	1.55	247.2	YES	NO	bb	bb	7.336
9	234678-HxCDF	35.98	1.745e5	1.392e5	1.229	1.25	1.24	1497.7	YES	NO	bb	bd	47.893
10	123678-HxCDF	35.12	1.844e5	1.451e5	1.248	1.27	1.24	1535.7	YES	NO	dd	dd	46.119
11	123478-HxCDF	34.97	1.704e5	1.372e5	1.182	1.24	1.24	1491.4	YES	NO	bd	bd	47.801
12	123468-HXCDF	33.32	1.725e5	1.391e5	1.197	1.24	1.24	1430.3	YES	NO	bb	bb	47.789
13	123789-HxCDF	37.00	1.496e5	1.214e5	1.187	1.23	1.24	1285.4	YES	NO	bd	bd	47.920
14	1234789-HpCDF	41.09	1.274e5	1.250e5	1.165	1.02	1.05	1309.1	YES	NO	bd	bd	47.183
15	Total-heptafurans	39.14	2.026e2	2.062e2	1.185	0.98	1.05	4.2	YES	NO	db	db	0.071
16	1234678-HpCDF	38.85	1.416e5	1.406e5	1.204	1.01	1.05	1713.2	YES	NO	bd	bd	46.179
17	OCDF	45.37	1.913e5	2.158e5	1.186	0.89	0.89	1289.4	YES	NO	bd	bd	84.314
18	13468-PECDF	27.21	2.244e5	1.469e5	1.013	1.53	1.55	4825.2	YES	NO	bb	bb	51.665

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.09	2.271e4	2.943e4	0.975	0.77	0.77	251.5	YES	NO	bd	bb	9.940
2	2378-TCDD	26.50	2.619e4	3.431e4	1.236	0.76	0.77	303.7	YES	NO	bb	bb	9.096
3	Total-tetradioxins	26.17	3.941e4	4.898e4	1.099	0.80	0.77	317.9	YES	NO	bb	bb	14.957
4	Total-tetradioxins	25.67	1.214e4	1.508e4	1.099	0.80	0.77	147.2	YES	NO	bd	bb	4.606
5	Total-tetradioxins	25.10	4.082e2	4.654e2	1.099	0.88	0.77	4.6	YES	NO	bb	bb	0.148
6	1368-TCDD	23.61	2.431e4	3.146e4	1.084	0.77	0.77	297.1	YES	NO	bb	bb	9.560

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.01	1.605e5	1.044e5	1.252	1.54	1.55	1457.6	YES	NO	bb	bb	48.067
2	12378-PeCDD	31.61	1.393e5	9.105e4	1.087	1.53	1.55	1309.8	YES	NO	bb	bb	48.187
3	12479-PECDD	28.88	2.336e5	1.521e5	1.837	1.54	1.55	1396.3	YES	NO	bb	bb	47.715

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.59	1.437e5	1.177e5	0.985	1.22	1.24	1869.7	YES	NO	bb	bb	46.506
2	123678-HxCDD	36.20	1.438e5	1.212e5	1.021	1.19	1.24	1884.3	YES	NO	db	db	45.216
3	123478-HxCDD	36.09	1.362e5	1.135e5	0.987	1.20	1.24	1816.1	YES	NO	bd	bd	44.637
4	124679-HXCDD	34.08	1.433e5	1.180e5	1.033	1.21	1.24	1755.1	YES	NO	bb	bb	44.638

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.30	1.318e5	1.267e5	1.286	1.04	1.05	1429.7	YES	NO	bd	bd	47.135
2	1234678-HpCDD	40.34	1.197e5	1.163e5	1.253	1.03	1.05	1224.8	YES	NO	bd	bd	44.156

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.09	2.271e4	2.943e4	0.975	0.77	0.77	251.5	YES	NO	bd	bb	9.940
2	2378-TCDD	26.50	2.619e4	3.431e4	1.236	0.76	0.77	303.7	YES	NO	bb	bb	9.096
3	Total-tetradioxins	26.17	3.941e4	4.898e4	1.099	0.80	0.77	317.9	YES	NO	bb	bb	14.957
4	Total-tetradioxins	25.67	1.214e4	1.508e4	1.099	0.80	0.77	147.2	YES	NO	bd	bb	4.606
5	Total-tetradioxins	25.10	4.082e2	4.654e2	1.099	0.88	0.77	4.6	YES	NO	bb	bb	0.148
6	1368-TCDD	23.61	2.431e4	3.146e4	1.084	0.77	0.77	297.1	YES	NO	bb	bb	9.560
7	12389-PECDD	32.01	1.605e5	1.044e5	1.252	1.54	1.55	1457.6	YES	NO	bb	bb	48.067
8	12378-PeCDD	31.61	1.393e5	9.105e4	1.087	1.53	1.55	1309.8	YES	NO	bb	bb	48.187
9	12479-PECDD	28.88	2.336e5	1.521e5	1.837	1.54	1.55	1396.3	YES	NO	bb	bb	47.715
10	123789-HxCDD	36.59	1.437e5	1.177e5	0.985	1.22	1.24	1869.7	YES	NO	bb	bb	46.506
11	123678-HxCDD	36.20	1.438e5	1.212e5	1.021	1.19	1.24	1884.3	YES	NO	db	db	45.216
12	123478-HxCDD	36.09	1.362e5	1.135e5	0.987	1.20	1.24	1816.1	YES	NO	bd	bd	44.637
13	124679-HXCDD	34.08	1.433e5	1.180e5	1.033	1.21	1.24	1755.1	YES	NO	bb	bb	44.638
14	1234679-HPCDD	39.30	1.318e5	1.267e5	1.286	1.04	1.05	1429.7	YES	NO	bd	bd	47.135
15	OCDD	45.13	1.970e5	2.194e5	1.103	0.90	0.89	2087.8	YES	NO	bd	bb	92.763
16	1234678-HpCDD	40.34	1.197e5	1.163e5	1.253	1.03	1.05	1224.8	YES	NO	bd	bd	44.156

Dataset: T:\Autospec\Processed Data Batch\230207D2.qld
Last Altered: Wednesday, February 08, 2023 13:13:24 Pacific Standard Time
Printed: Wednesday, February 08, 2023 13:18:03 Pacific Standard Time

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.35	2.517e4	3.285e4	0.858	0.77	0.77	353.8	YES	NO	db	db	8.975
2	Total-tetrafurans	27.21	5.045e2	6.815e2	0.933	0.74	0.77	7.4	YES	NO	bd	bd	0.169
3	2378-TCDF	25.85	2.595e4	3.559e4	0.876	0.73	0.77	375.6	YES	NO	bb	bb	9.318
4	1368-TCDF	22.34	2.874e4	3.783e4	1.064	0.76	0.77	450.2	YES	NO	bb	bb	8.296
5	12389-PECDF	32.40	1.582e5	1.060e5	0.844	1.49	1.55	1431.2	YES	NO	bb	bb	44.146
6	23478-PeCDF	31.36	1.673e5	1.143e5	0.911	1.46	1.55	1605.4	YES	NO	bb	bb	46.609
7	12378-PeCDF	30.03	1.647e5	1.099e5	0.845	1.50	1.55	1594.7	YES	NO	bb	bb	45.827
8	Total-pentafurans	28.87	2.598e4	1.765e4	0.866	1.47	1.55	247.2	YES	NO	bb	bb	7.336
9	234678-HxCDF	35.98	1.745e5	1.392e5	1.229	1.25	1.24	1497.7	YES	NO	bb	bd	47.893
10	123678-HxCDF	35.12	1.844e5	1.451e5	1.248	1.27	1.24	1535.7	YES	NO	dd	dd	46.119
11	123478-HxCDF	34.97	1.704e5	1.372e5	1.182	1.24	1.24	1491.4	YES	NO	bd	bd	47.801
12	123468-HXCDF	33.32	1.725e5	1.391e5	1.197	1.24	1.24	1430.3	YES	NO	bb	bb	47.789
13	123789-HxCDF	37.00	1.496e5	1.214e5	1.187	1.23	1.24	1285.4	YES	NO	bd	bd	47.920
14	1234789-HpCDF	41.09	1.274e5	1.250e5	1.165	1.02	1.05	1309.1	YES	NO	bd	bd	47.183
15	Total-heptafurans	39.14	2.026e2	2.062e2	1.185	0.98	1.05	4.2	YES	NO	db	db	0.071
16	1234678-HpCDF	38.85	1.416e5	1.406e5	1.204	1.01	1.05	1713.2	YES	NO	bd	bd	46.179
17	OCDF	45.37	1.913e5	2.158e5	1.186	0.89	0.89	1289.4	YES	NO	bd	bd	84.314
18	13468-PECDF	27.21	2.244e5	1.469e5	1.013	1.53	1.55	4825.2	YES	NO	bb	bb	51.665
19	1289-TCDD	27.09	2.271e4	2.943e4	0.975	0.77	0.77	251.5	YES	NO	bd	bb	9.940
20	2378-TCDD	26.50	2.619e4	3.431e4	1.236	0.76	0.77	303.7	YES	NO	bb	bb	9.096
21	Total-tetradioxins	26.17	3.941e4	4.898e4	1.099	0.80	0.77	317.9	YES	NO	bb	bb	14.957
22	Total-tetradioxins	25.67	1.214e4	1.508e4	1.099	0.80	0.77	147.2	YES	NO	bd	bb	4.606
23	Total-tetradioxins	25.10	4.082e2	4.654e2	1.099	0.88	0.77	4.6	YES	NO	bb	bb	0.148
24	1368-TCDD	23.61	2.431e4	3.146e4	1.084	0.77	0.77	297.1	YES	NO	bb	bb	9.560
25	12389-PECDD	32.01	1.605e5	1.044e5	1.252	1.54	1.55	1457.6	YES	NO	bb	bb	48.067
26	12378-PeCDD	31.61	1.393e5	9.105e4	1.087	1.53	1.55	1309.8	YES	NO	bb	bb	48.187
27	12479-PECDD	28.88	2.336e5	1.521e5	1.837	1.54	1.55	1396.3	YES	NO	bb	bb	47.715
28	123789-HxCDD	36.59	1.437e5	1.177e5	0.985	1.22	1.24	1869.7	YES	NO	bb	bb	46.506
29	123678-HxCDD	36.20	1.438e5	1.212e5	1.021	1.19	1.24	1884.3	YES	NO	db	db	45.216
30	123478-HxCDD	36.09	1.362e5	1.135e5	0.987	1.20	1.24	1816.1	YES	NO	bd	bd	44.637
31	124679-HXCDD	34.08	1.433e5	1.180e5	1.033	1.21	1.24	1755.1	YES	NO	bb	bb	44.638
32	1234679-HPCDD	39.30	1.318e5	1.267e5	1.286	1.04	1.05	1429.7	YES	NO	bd	bd	47.135
33	OCDD	45.13	1.970e5	2.194e5	1.103	0.90	0.89	2087.8	YES	NO	bd	bb	92.763
34	1234678-HpCDD	40.34	1.197e5	1.163e5	1.253	1.03	1.05	1224.8	YES	NO	bd	bd	44.156

Dataset: T:\Autospec\Processed Data Batch\230207D2.qld
Last Altered: Wednesday, February 08, 2023 13:13:24 Pacific Standard Time
Printed: Wednesday, February 08, 2023 13:18:03 Pacific Standard Time

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.03	5.657e3					1.0	NO		db		0.000
2	FUNCTION2 PFK	29.00	1.642e4					1.7	NO		dd		0.000
3	FUNCTION2 PFK	28.97	2.914e3					0.6	NO		bd		0.000
4	FUNCTION2 PFK	28.76	5.101e3					0.9	NO		bb		0.000
5	FUNCTION2 PFK	28.40	9.036e3					0.8	NO		bb		0.000
6	FUNCTION2 PFK	28.32	1.892e4					1.8	NO		bb		0.000
7	FUNCTION2 PFK	32.19	7.583e3					1.0	NO		bb		0.000
8	FUNCTION2 PFK	31.98	1.453e4					1.3	NO		db		0.000
9	FUNCTION2 PFK	31.91	1.204e4					0.9	NO		bd		0.000
10	FUNCTION2 PFK	31.47	8.812e3					1.2	NO		db		0.000
11	FUNCTION2 PFK	31.44	4.255e3					0.6	NO		bd		0.000
12	FUNCTION2 PFK	31.37	2.130e4					1.5	NO		bb		0.000
13	FUNCTION2 PFK	30.76	2.662e3					0.7	NO		bb		0.000
14	FUNCTION2 PFK	30.65	4.052e4					1.8	NO		bb		0.000
15	FUNCTION2 PFK	30.55	2.891e4					1.8	NO		bb		0.000
16	FUNCTION2 PFK	30.41	2.278e4					1.4	NO		bb		0.000
17	FUNCTION2 PFK	30.17	1.926e3					0.5	NO		bb		0.000
18	FUNCTION2 PFK	30.12	6.021e3					0.9	NO		bb		0.000
19	FUNCTION2 PFK	29.73	5.436e3					0.7	NO		bb		0.000
20	FUNCTION2 PFK	29.47	2.284e3					0.6	NO		bb		0.000
21	FUNCTION2 PFK	29.30	4.737e3					0.7	NO		bb		0.000
22	FUNCTION2 PFK	29.26	1.755e3					0.4	NO		bb		0.000
23	FUNCTION2 PFK	32.78	1.881e3					0.5	NO		bb		0.000
24	FUNCTION2 PFK	32.71	1.577e4					1.0	NO		bb		0.000
25	FUNCTION2 PFK	32.51	9.995e3					1.1	NO		bb		0.000
26	FUNCTION2 PFK	32.47	2.247e3					0.6	NO		bb		0.000

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.82	4.647e3					0.7	NO		bb		0.000
2	FUNCTION3 PFK	35.59	1.633e4					1.5	NO		bb		0.000
3	FUNCTION3 PFK	34.76	2.289e4					1.3	NO		bb		0.000
4	FUNCTION3 PFK	34.10	6.463e3					0.8	NO		db		0.000
5	FUNCTION3 PFK	34.01	3.193e4					2.0	NO		bd		0.000
6	FUNCTION3 PFK	33.69	1.437e4					1.2	NO		db		0.000
7	FUNCTION3 PFK	33.65	8.391e3					0.9	NO		bd		0.000
8	FUNCTION3 PFK	33.30	7.910e3					1.1	NO		db		0.000
9	FUNCTION3 PFK	33.26	4.786e3					0.7	NO		bd		0.000
10	FUNCTION3 PFK	33.06	2.792e3					0.8	NO		bb		0.000
11	FUNCTION3 PFK	33.00	4.763e4					3.7	YES		bb		0.000
12	FUNCTION3 PFK	37.91	6.257e3					0.8	NO		bb		0.000
13	FUNCTION3 PFK	37.86	8.568e3					1.0	NO		bb		0.000
14	FUNCTION3 PFK	37.37	1.482e4					0.8	NO		bb		0.000
15	FUNCTION3 PFK	37.32	2.690e3					0.7	NO		bb		0.000
16	FUNCTION3 PFK	37.28	4.414e3					0.5	NO		bb		0.000
17	FUNCTION3 PFK	36.98	7.596e3					0.7	NO		bb		0.000
18	FUNCTION3 PFK	36.90	2.386e4					0.8	NO		bb		0.000
19	FUNCTION3 PFK	36.19	4.240e3					0.7	NO		bb		0.000
20	FUNCTION3 PFK	36.06	5.168e3					0.8	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.62	3.389e3					1.1	NO		bb		
2	FUNCTION5 PFK	43.33	1.450e3					0.7	NO		db		
3	FUNCTION5 PFK	43.29	2.064e3					0.9	NO		bd		
4	FUNCTION5 PFK	43.13	3.447e3					1.7	NO		db		
5	FUNCTION5 PFK	43.10	9.441e3					1.7	NO		bd		
6	FUNCTION5 PFK	46.36	4.308e3					1.3	NO		bb		
7	FUNCTION5 PFK	46.31	5.106e3					1.8	NO		db		
8	FUNCTION5 PFK	46.28	4.832e3					1.6	NO		bd		
9	FUNCTION5 PFK	46.01	9.302e2					0.6	NO		bb		
10	FUNCTION5 PFK	45.88	3.557e3					1.3	NO		bb		
11	FUNCTION5 PFK	45.24	1.699e3					1.0	NO		bb		
12	FUNCTION5 PFK	45.19	1.379e3					0.8	NO		db		
13	FUNCTION5 PFK	45.17	4.531e3					1.7	NO		bd		
14	FUNCTION5 PFK	45.02	1.435e4					1.7	NO		bb		
15	FUNCTION5 PFK	44.89	1.604e3					0.7	NO		bb		
16	FUNCTION5 PFK	44.35	1.308e3					0.7	NO		bb		
17	FUNCTION5 PFK	44.09	5.816e3					2.0	NO		bb		
18	FUNCTION5 PFK	43.99	1.745e3					0.9	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.84	1.640e2					1.9	NO		bd		0.000
2	FUNCTION1 HXCD...	25.16	1.056e2					2.3	NO		bb		0.000
3	FUNCTION1 HXCD...	26.20	1.105e2					2.1	NO		db		0.000
4	FUNCTION1 HXCD...	26.05	8.007e1					2.1	NO		dd		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.85	8.181e1					1.5	NO		bb		0.000
2	FUNCTION1 HPCD...	27.23	8.323e1					1.9	NO		bb		0.000
3	FUNCTION1 HPCD...	26.65	7.423e1					2.2	NO		bb		0.000
4	FUNCTION1 HPCD...	26.08	8.787e1					1.8	NO		db		0.000
5	FUNCTION1 HPCD...	25.91	8.908e1					1.6	NO		bd		0.000
6	FUNCTION1 HPCD...	22.40	7.443e1					1.5	NO		bb		0.000

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ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.17	2.680e2					4.4	YES		bb		0.000
2	FUNCTION2 HPCD...	30.85	9.332e1					1.6	NO		bb		0.000
3	FUNCTION2 HPCD...	30.10	1.598e2					3.3	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.66	7.760e1					2.3	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.49	1.116e2					2.3	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	46.19	7.691e1					2.9	NO		bb		0.000

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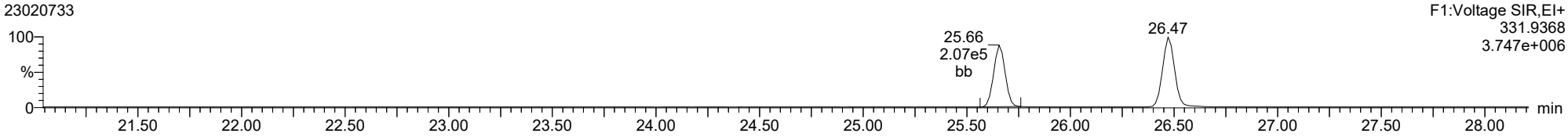

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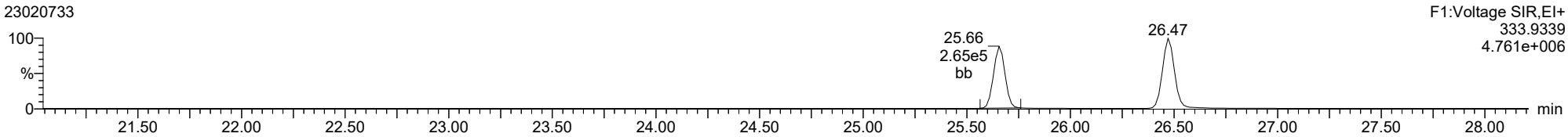

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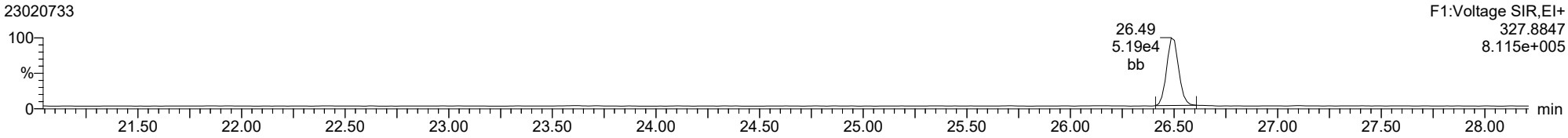

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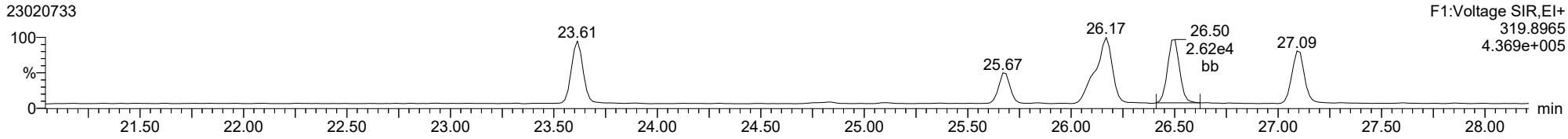

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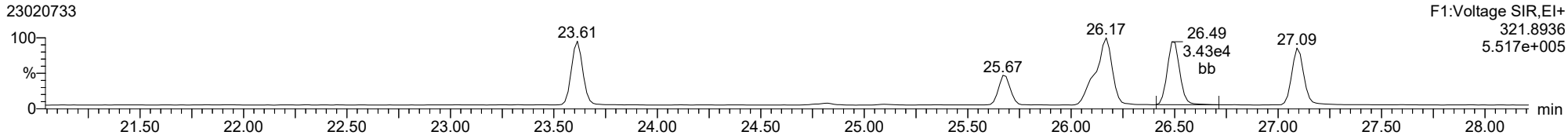

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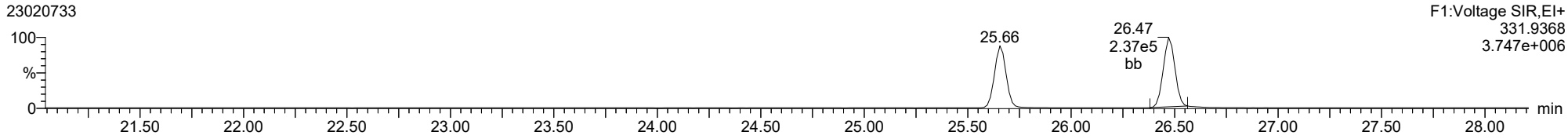

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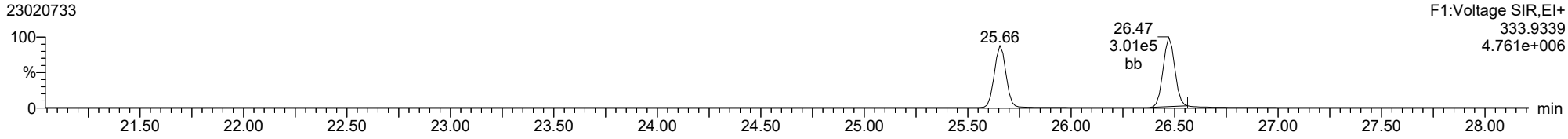

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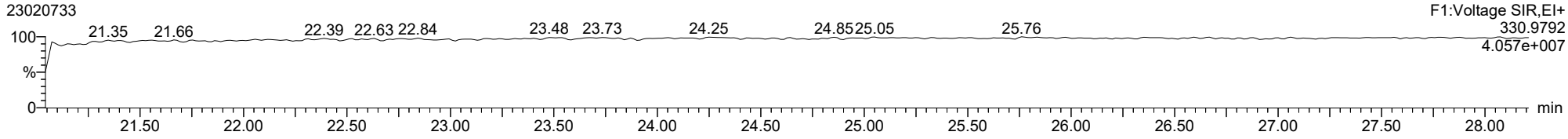

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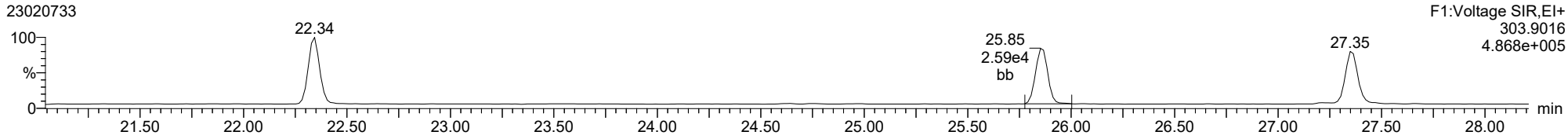

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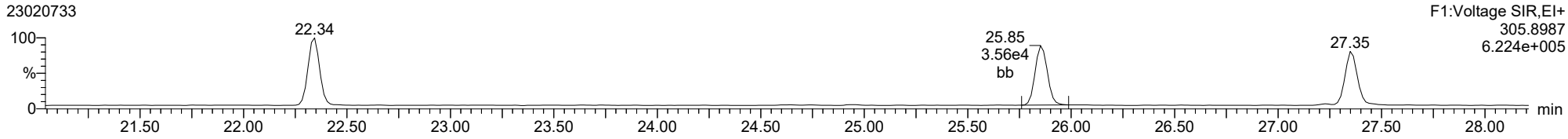

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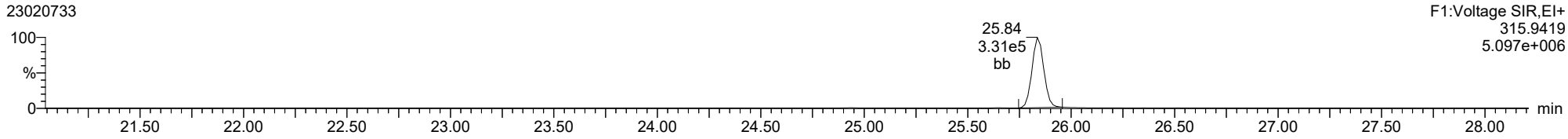

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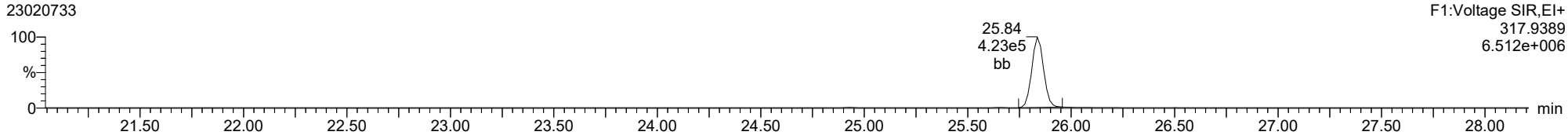

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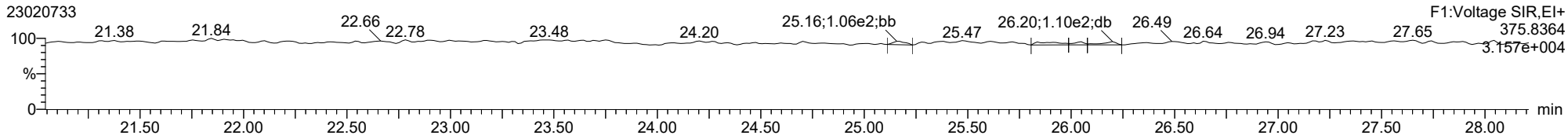

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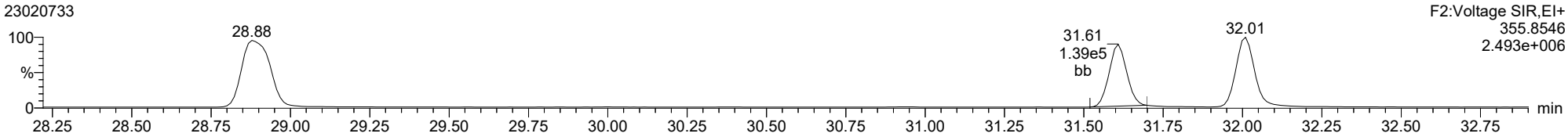

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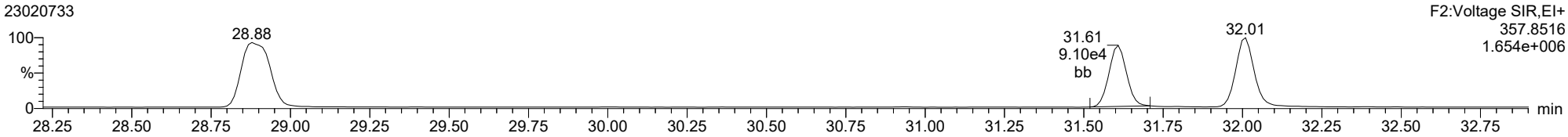

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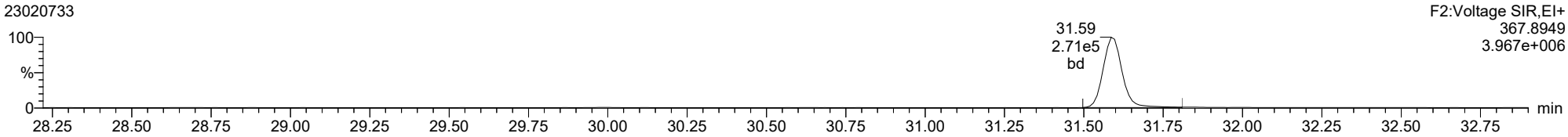

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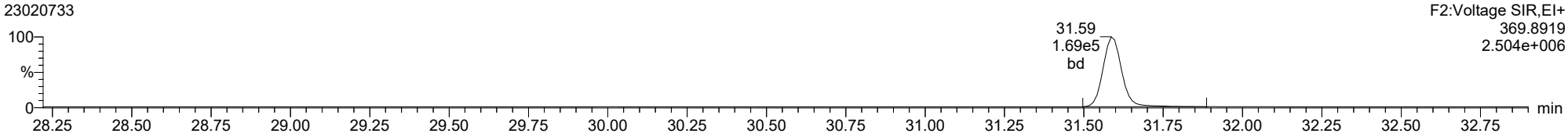

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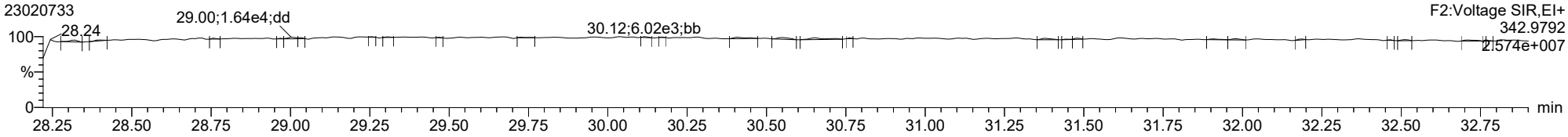

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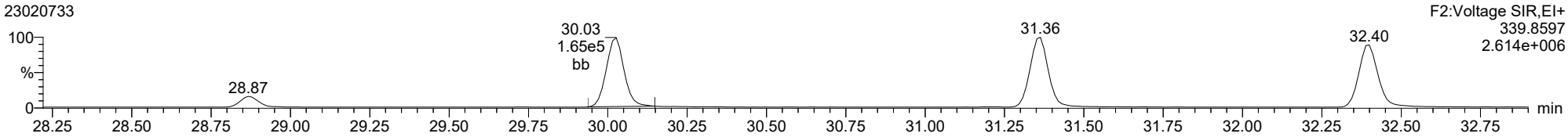

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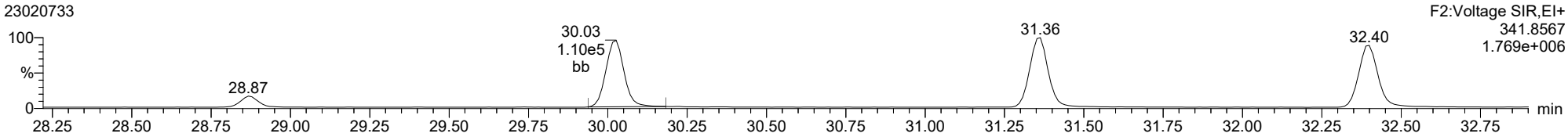

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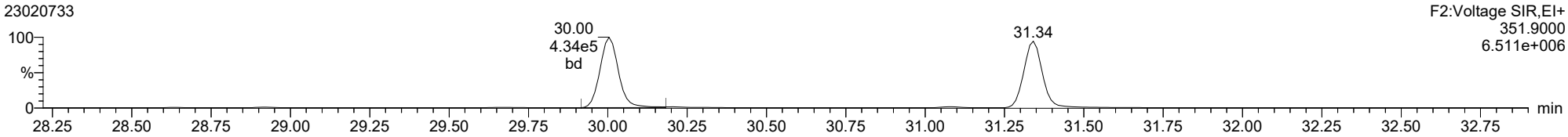

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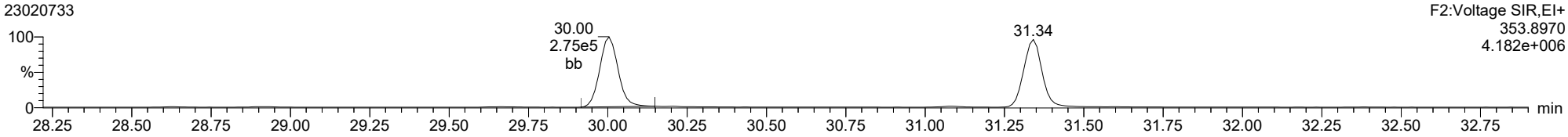

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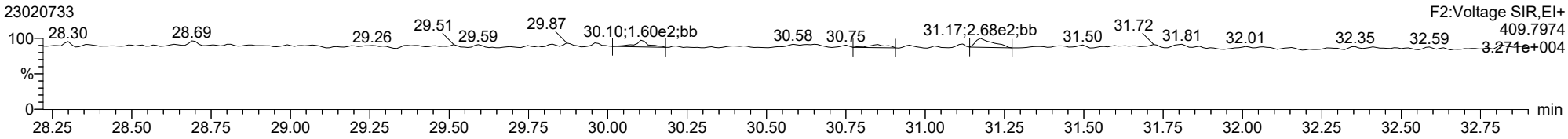

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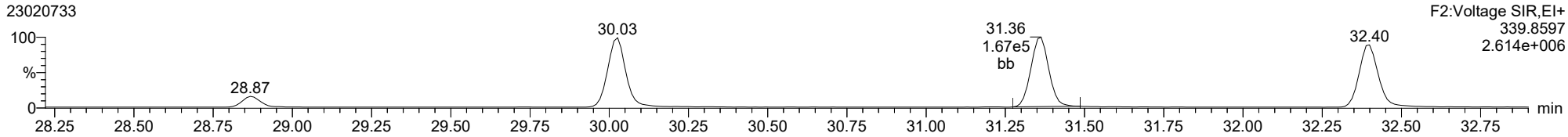

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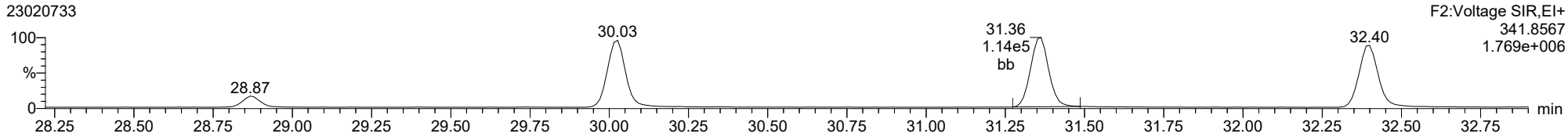

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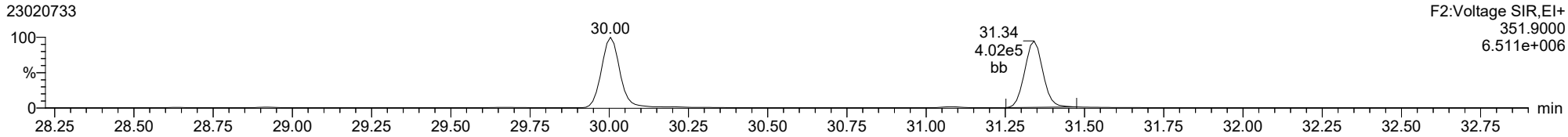

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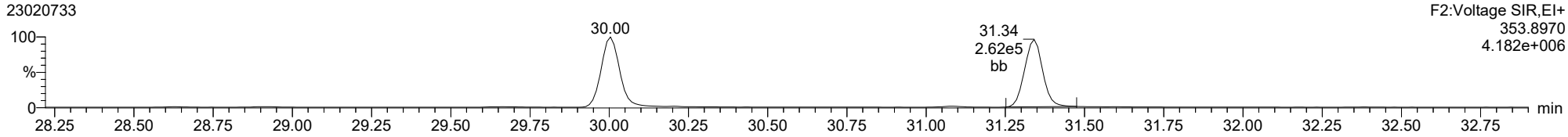

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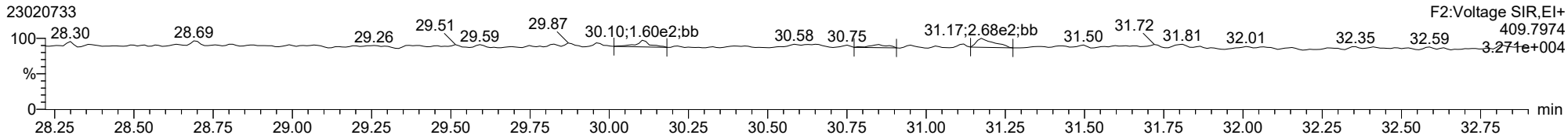

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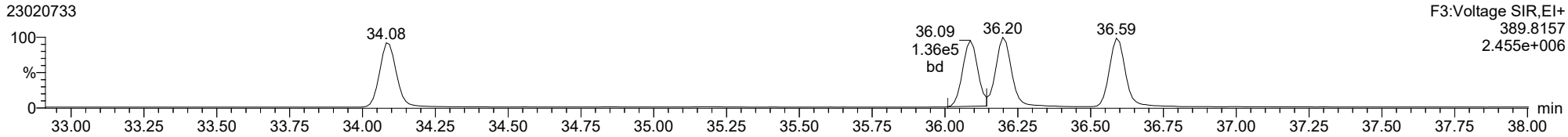

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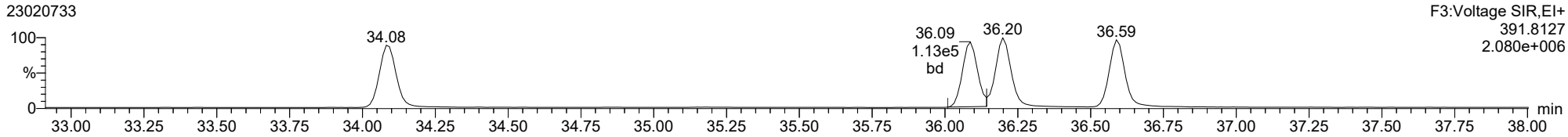

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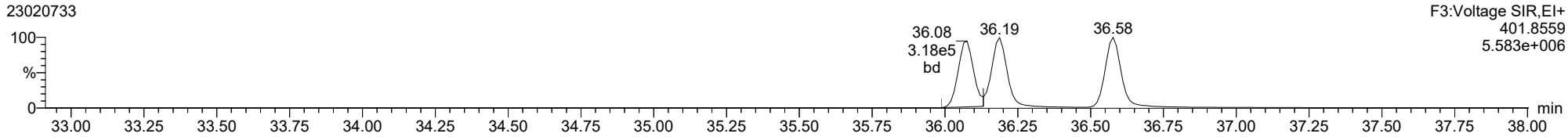

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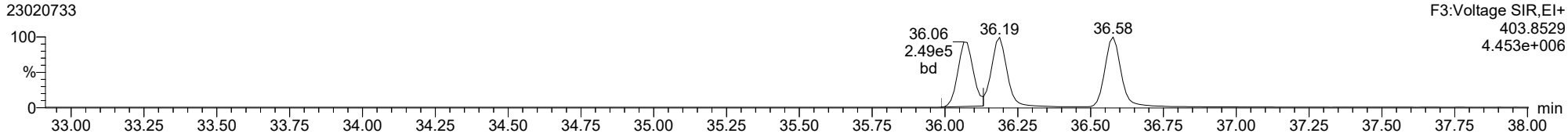

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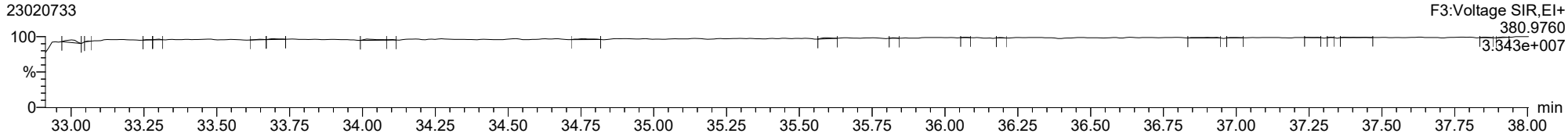

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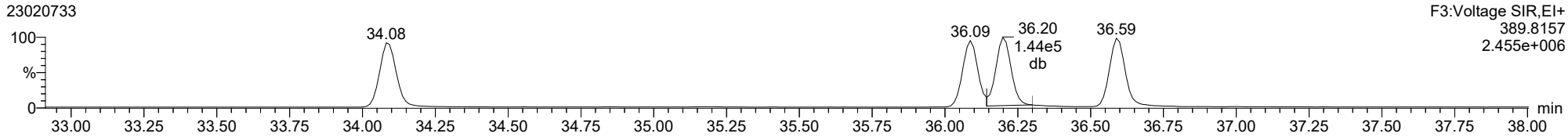

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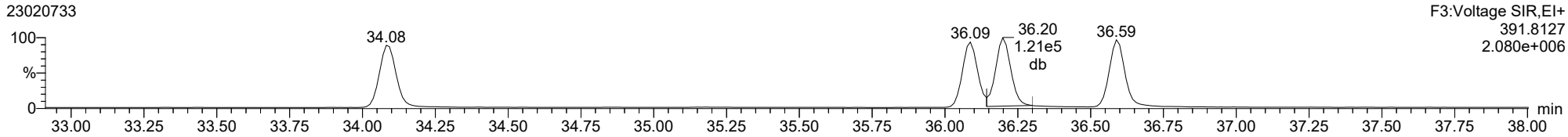

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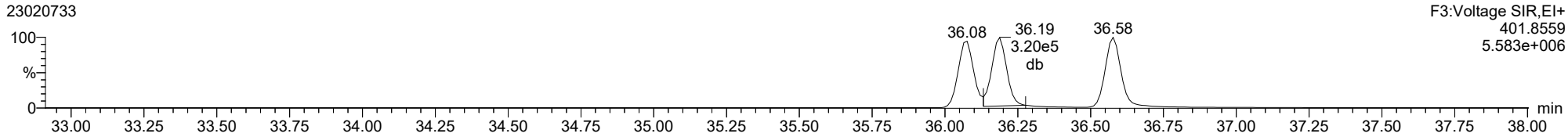

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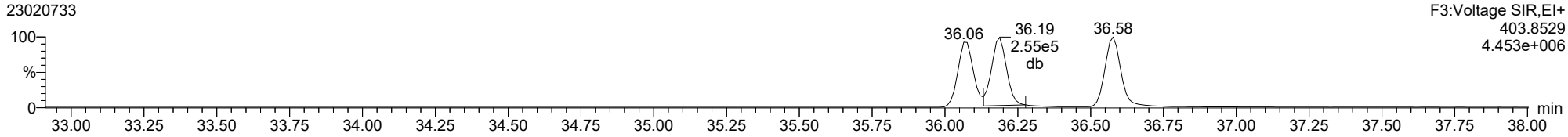

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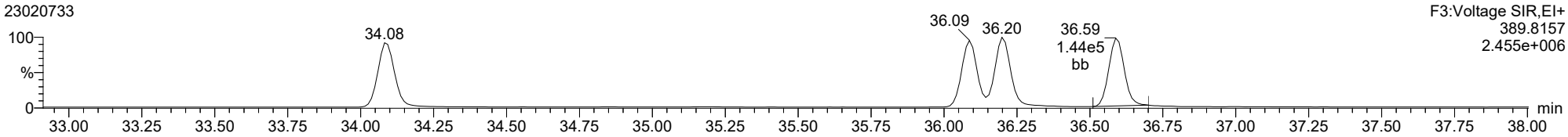

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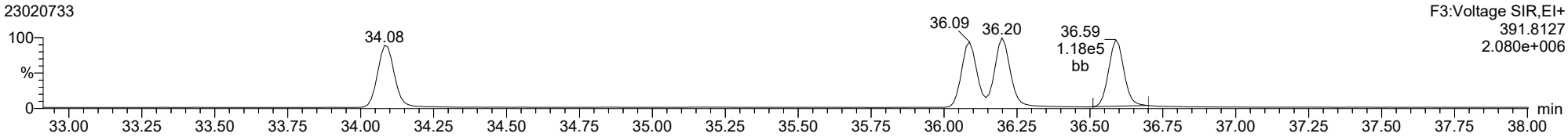

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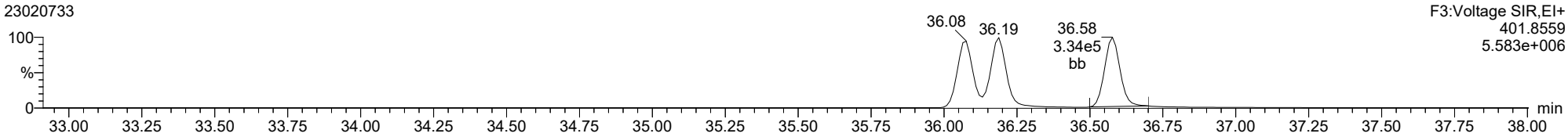

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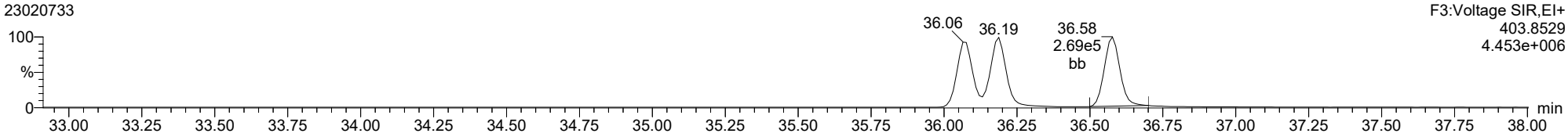

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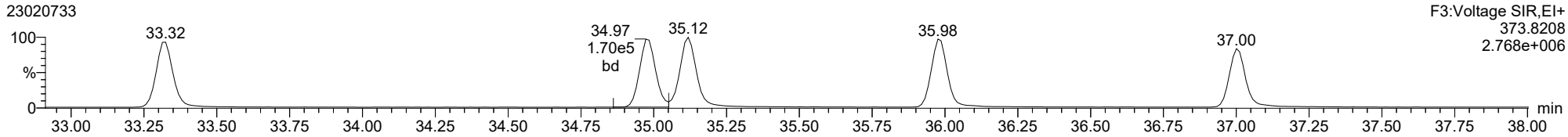

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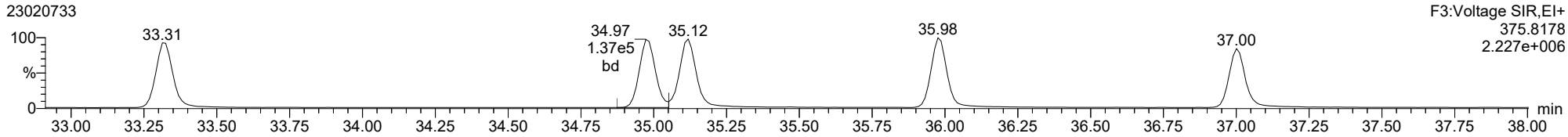

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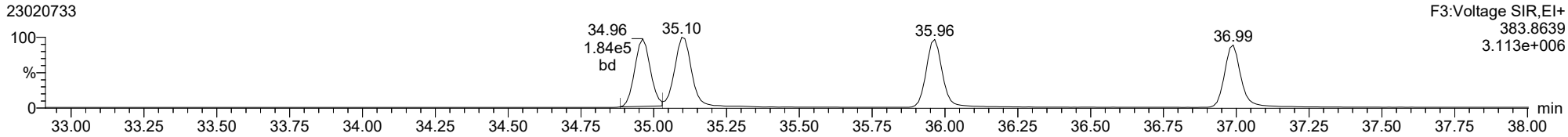

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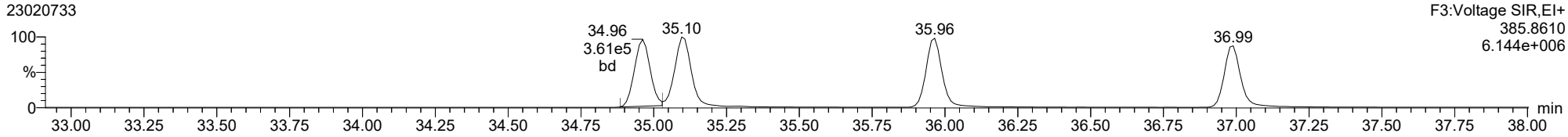

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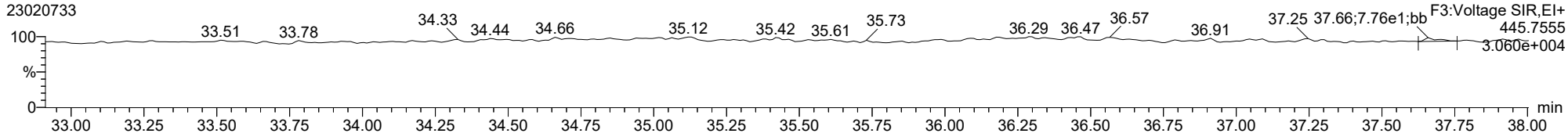

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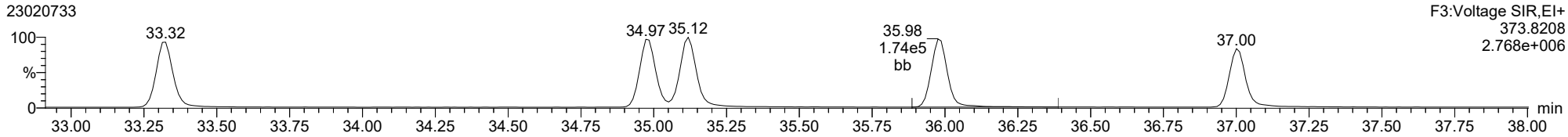

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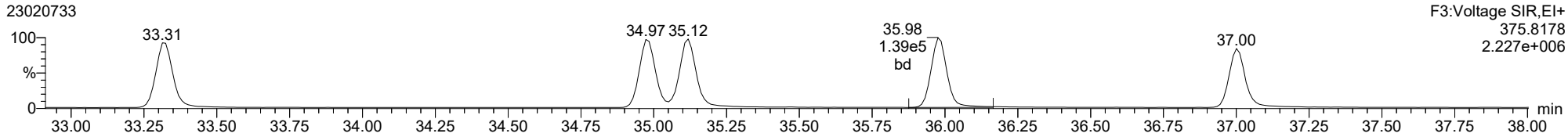

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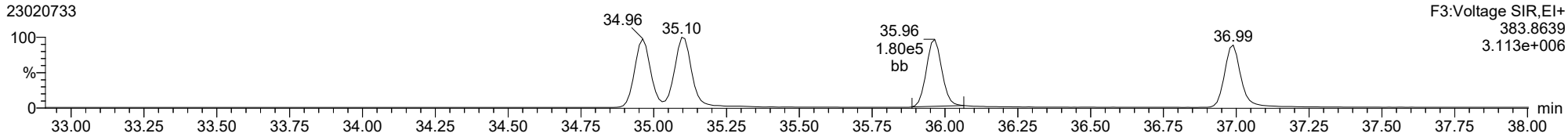

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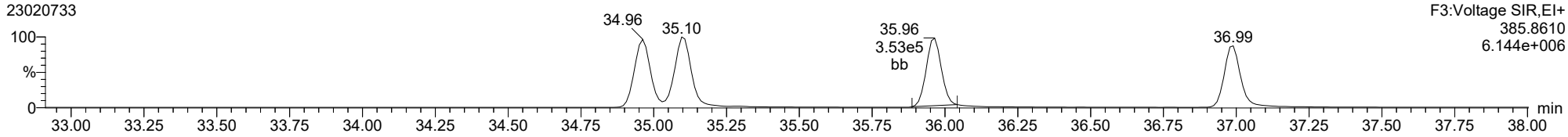

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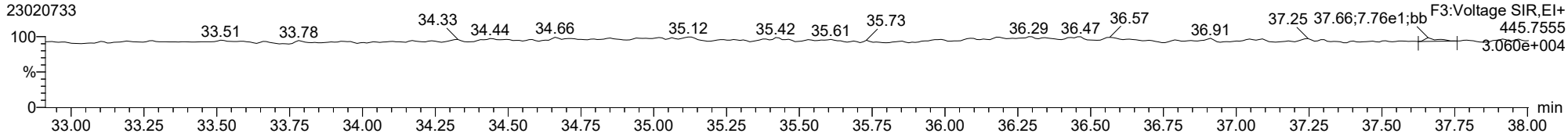

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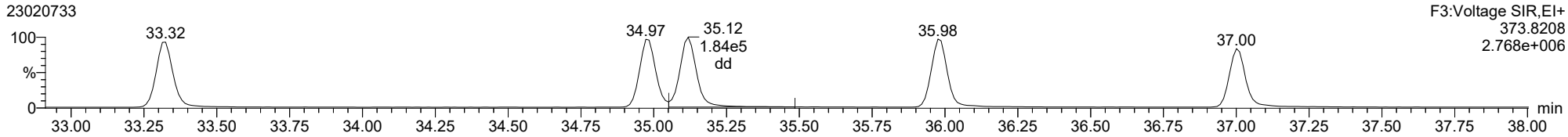

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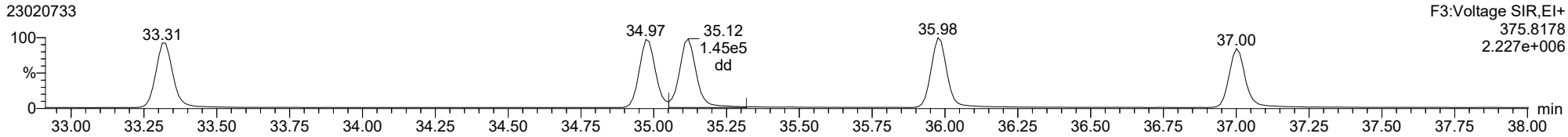

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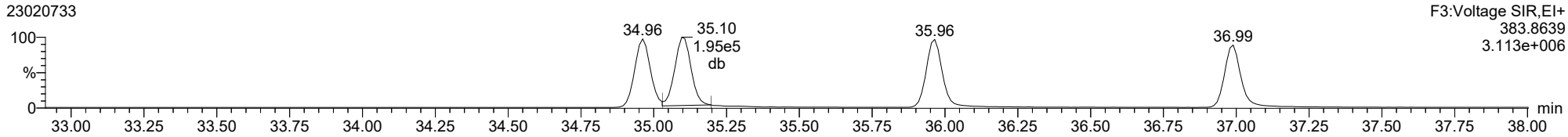

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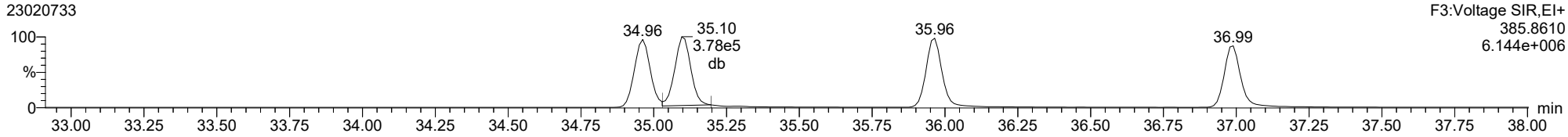

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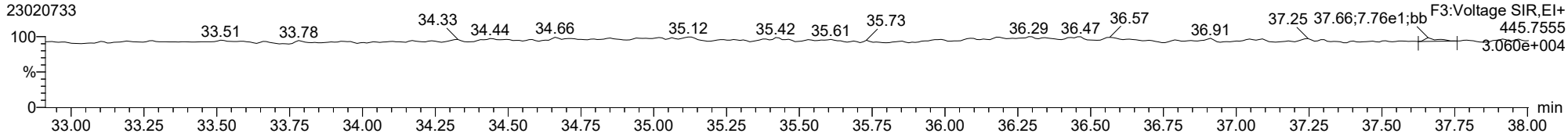

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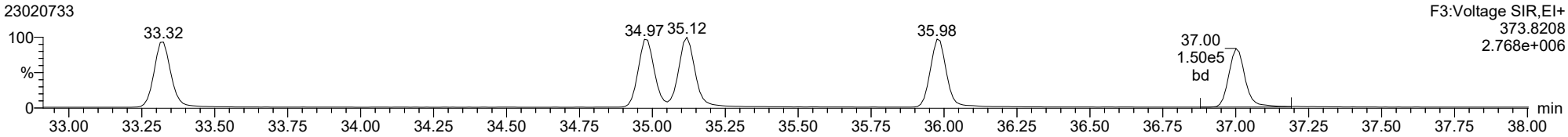

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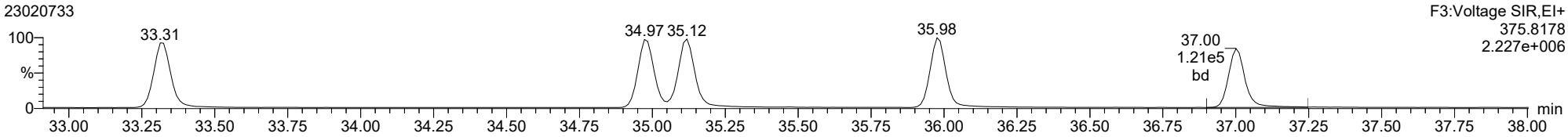

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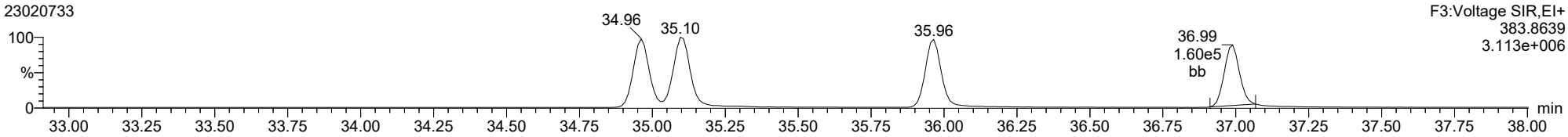

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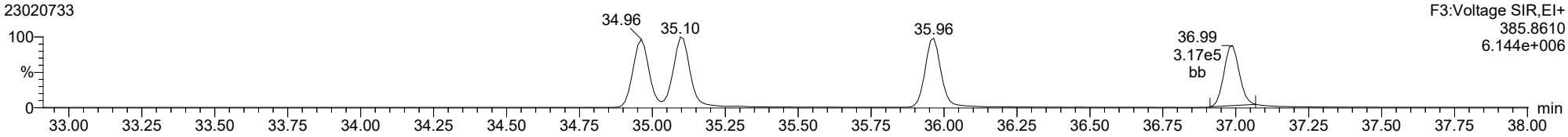

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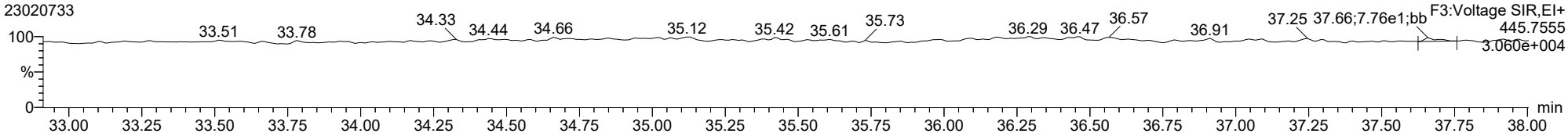

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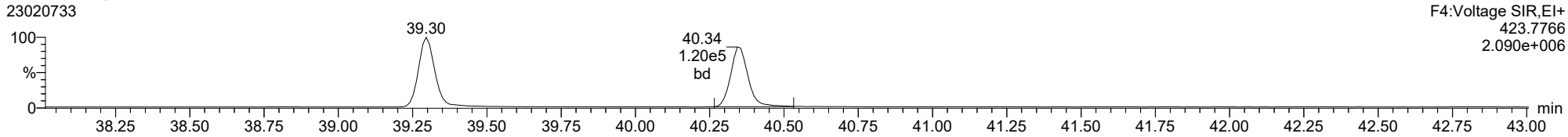

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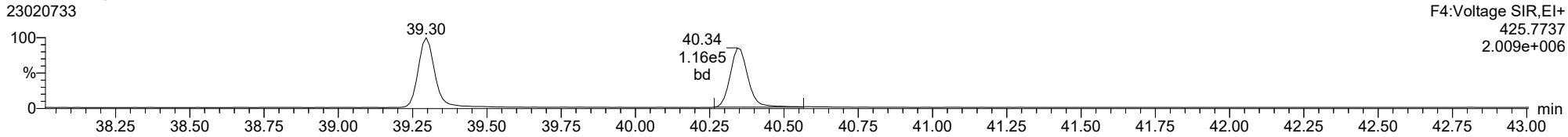

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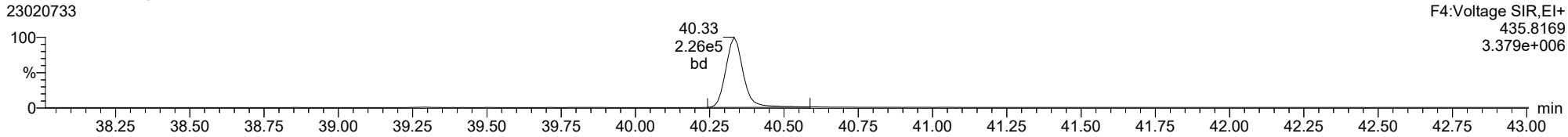

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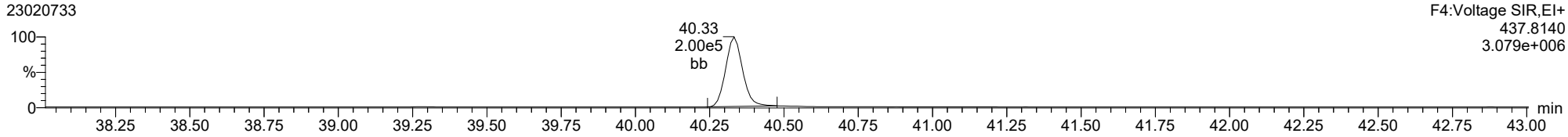

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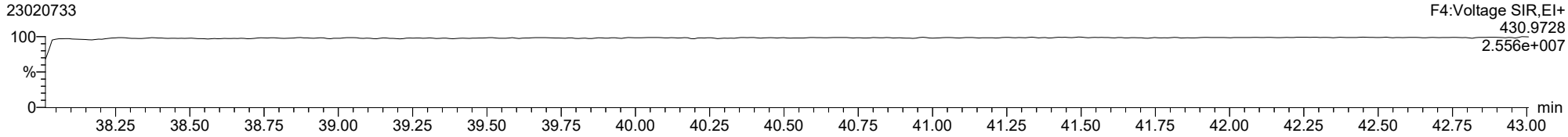

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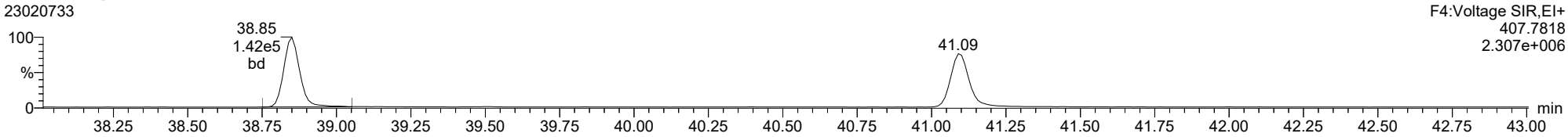

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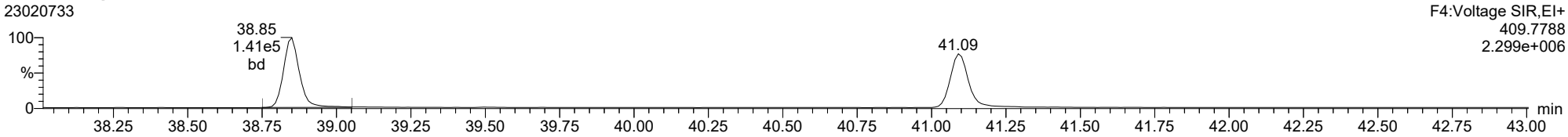

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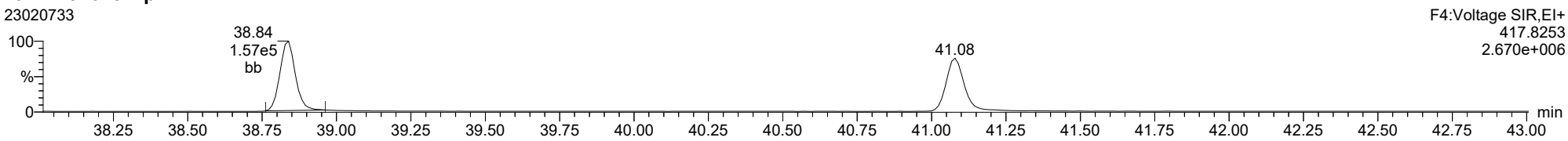

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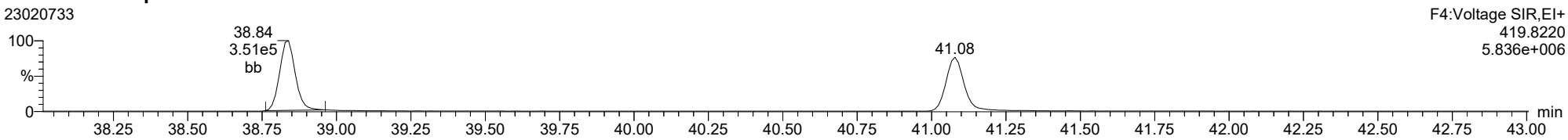

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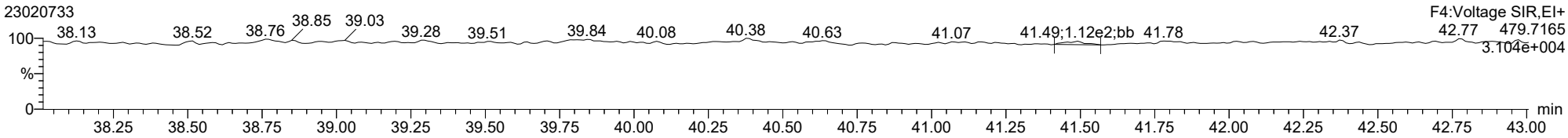

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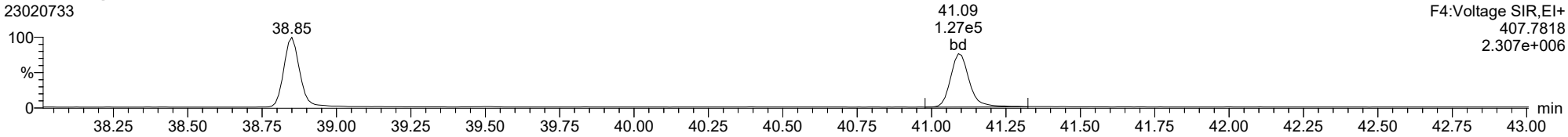

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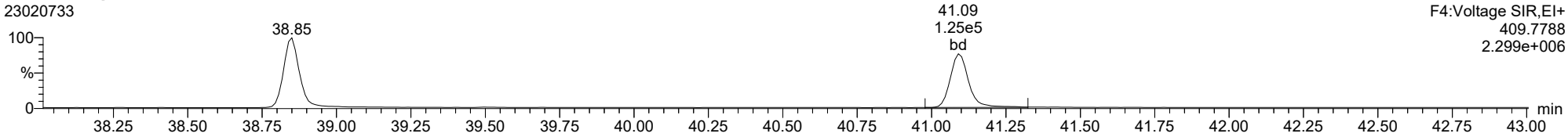

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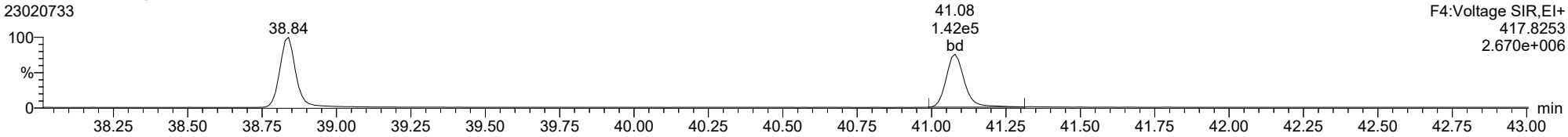

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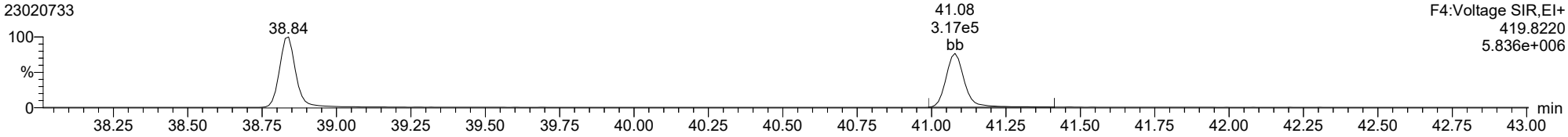

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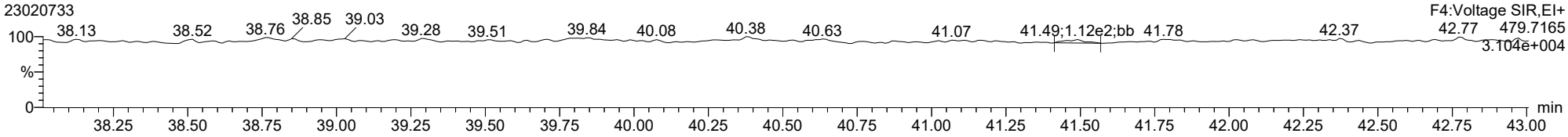

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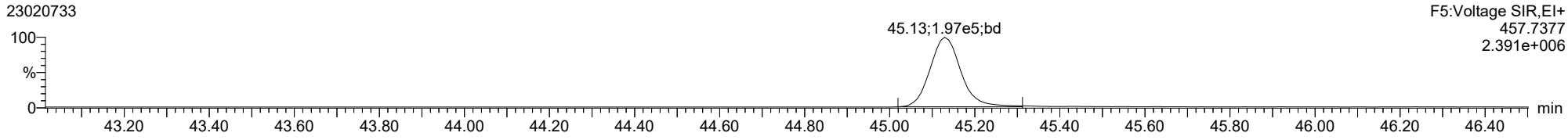
OCDD



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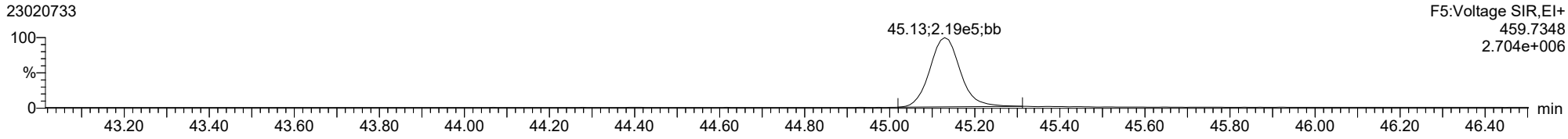

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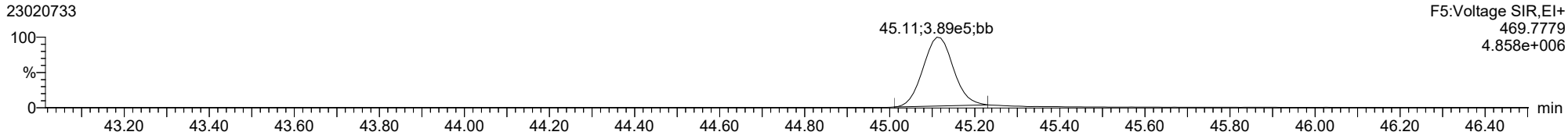

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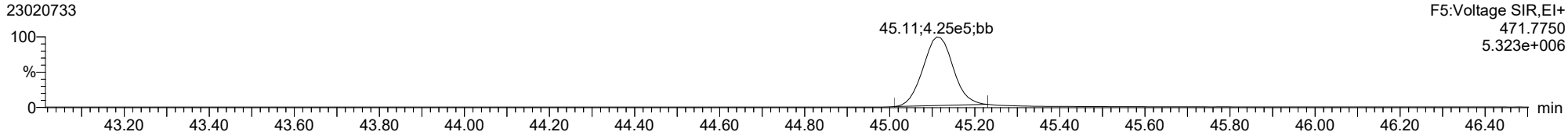

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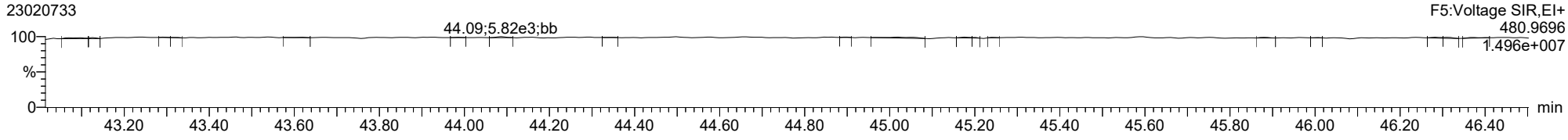

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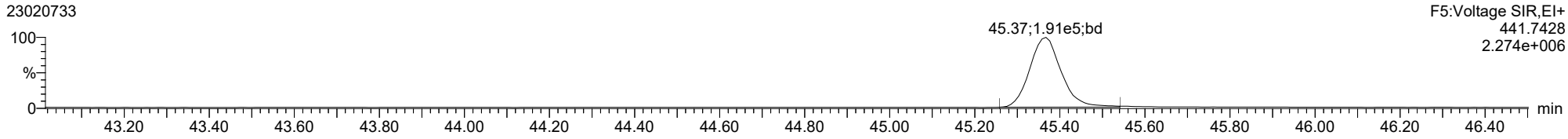

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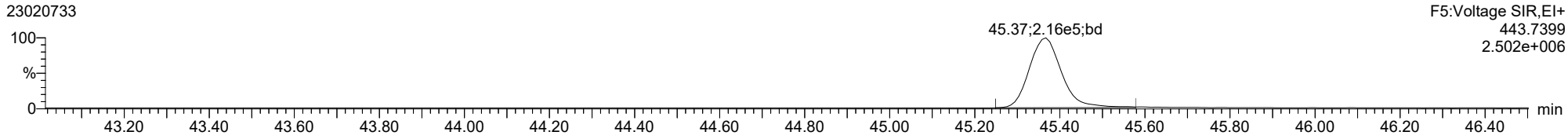

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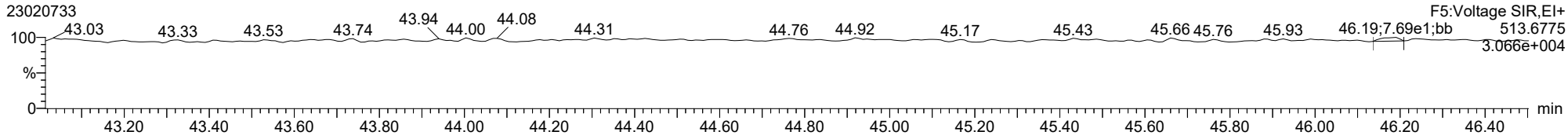

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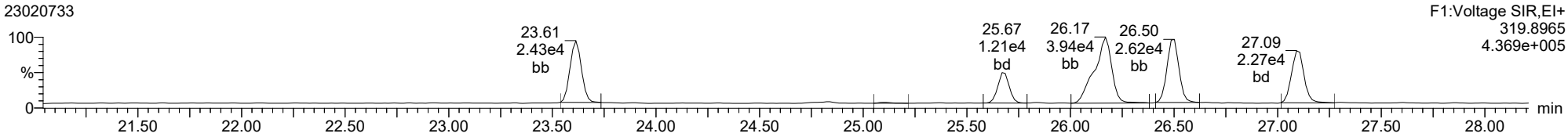
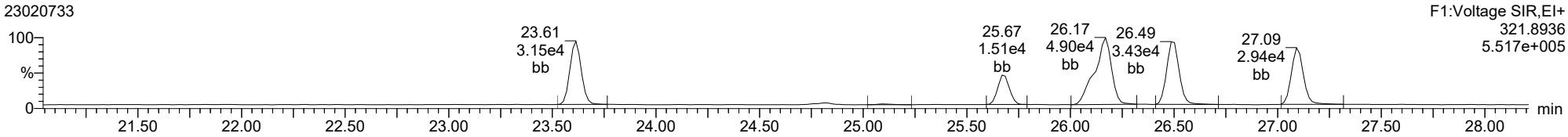
ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

Total-tetradioxins



Total-tetradioxins



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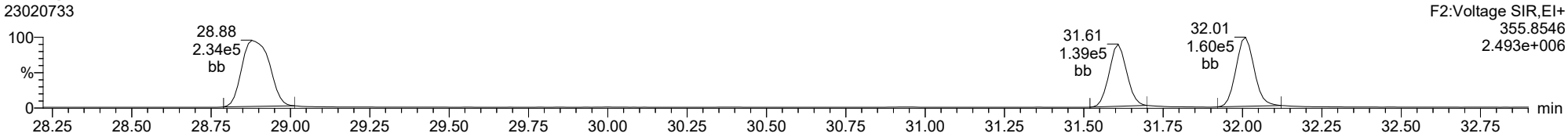
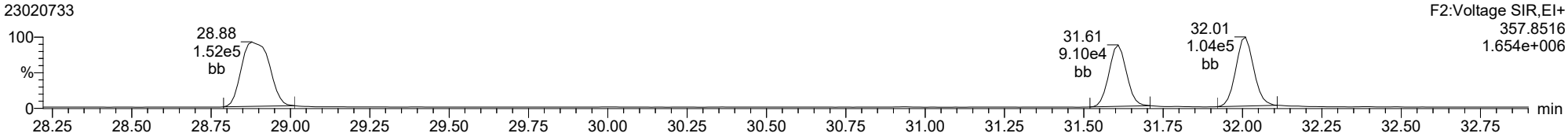


Total-pentadioxins



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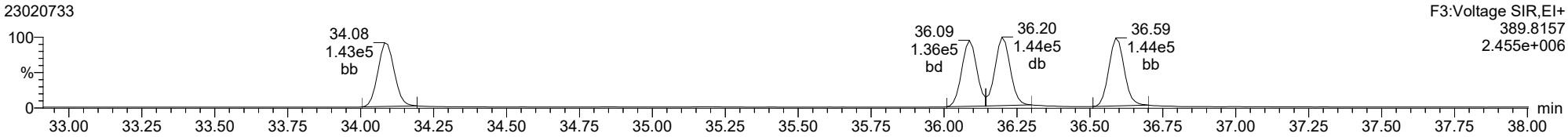
Total-hexadioxins



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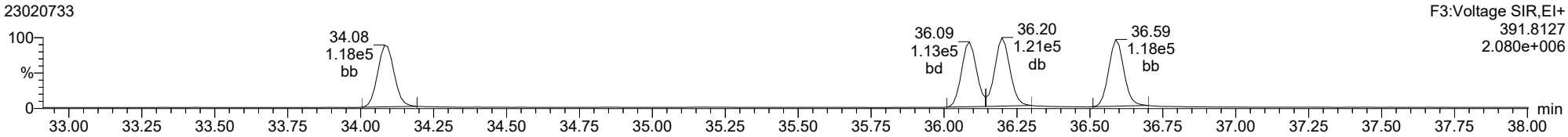

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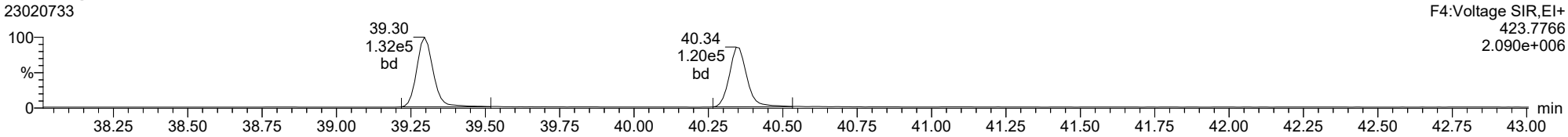

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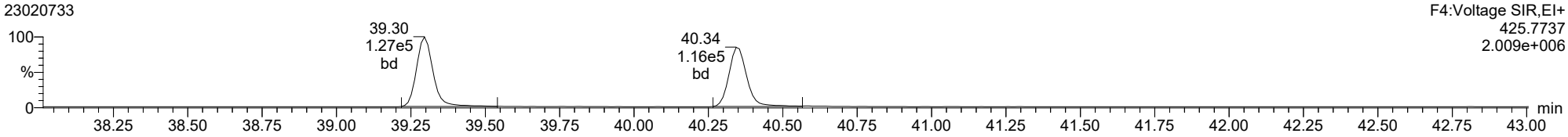

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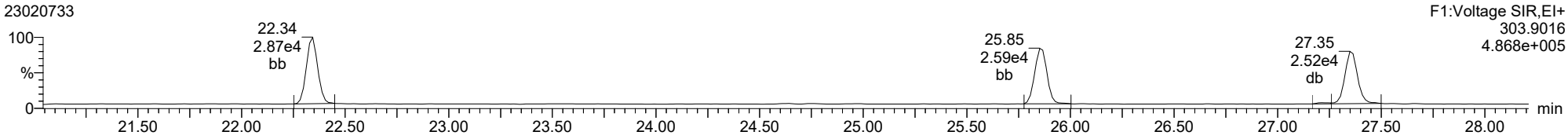
Total-tetrafurans



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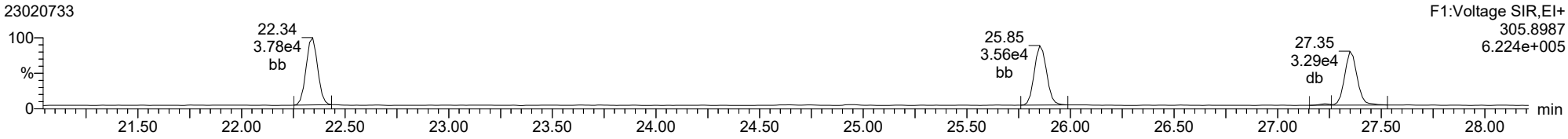

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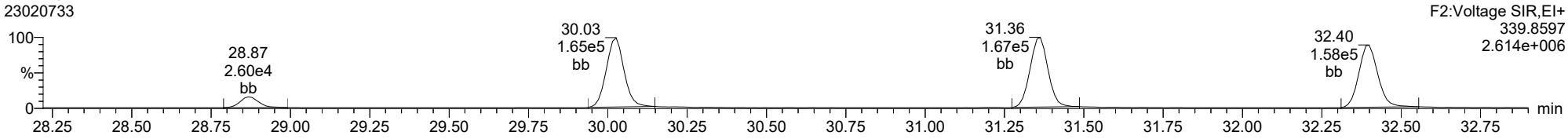

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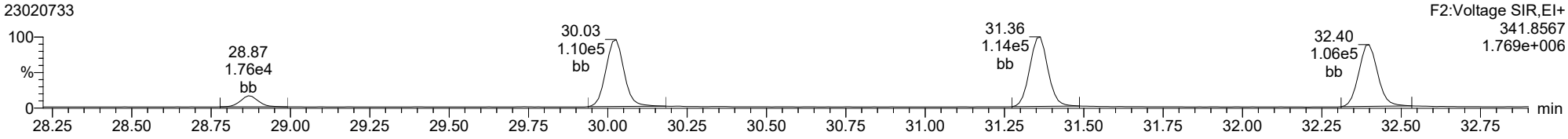

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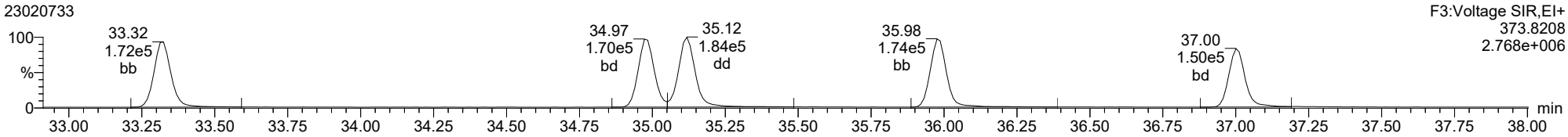
Total-hexafurans



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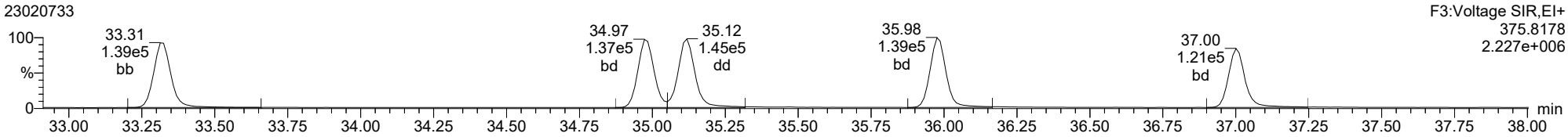

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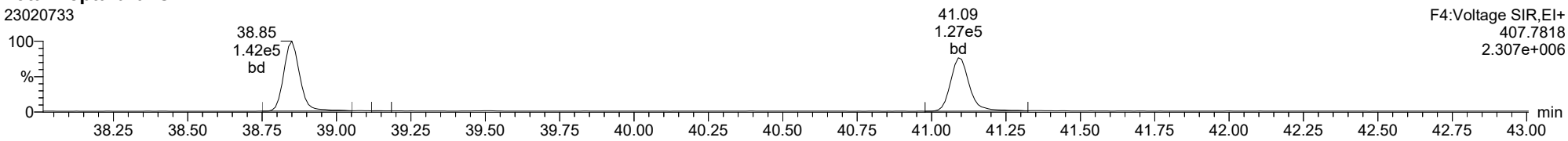

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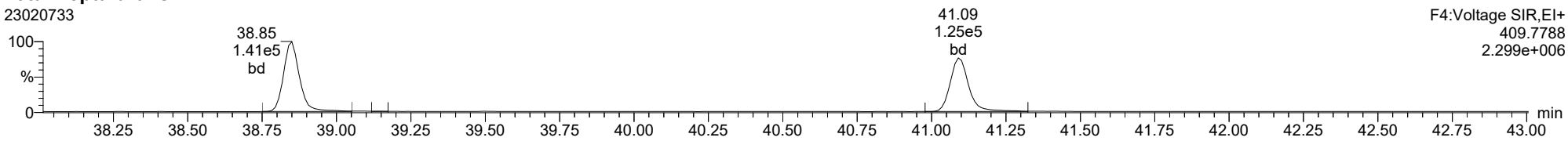

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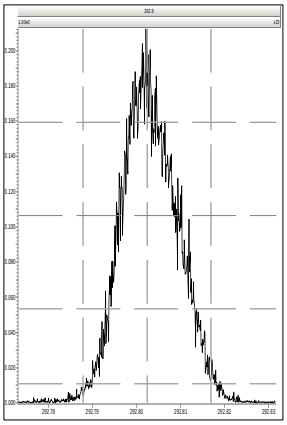

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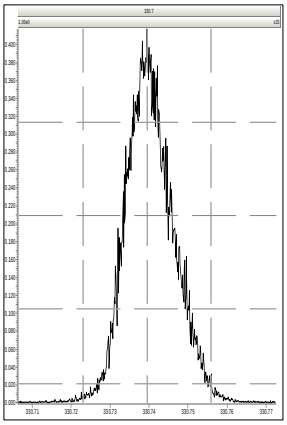
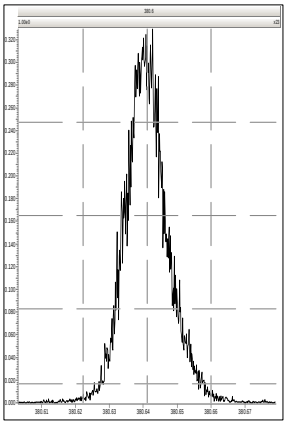


M 380.9760 R 13021



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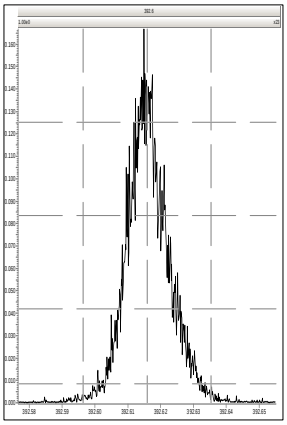

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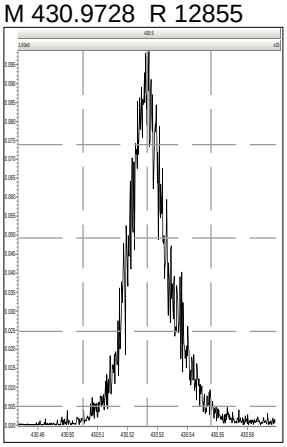

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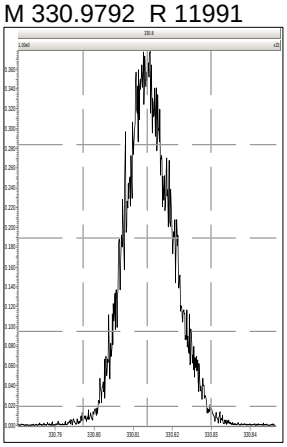

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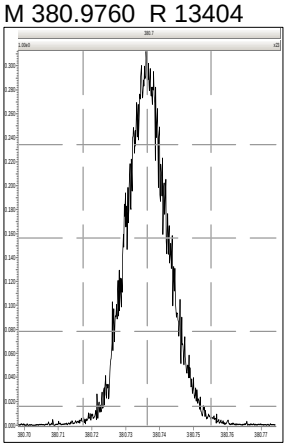

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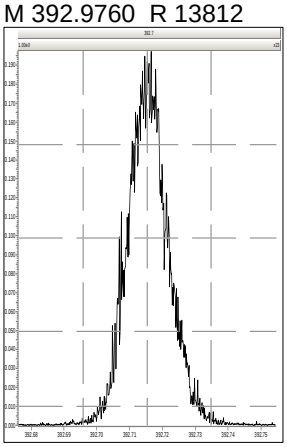

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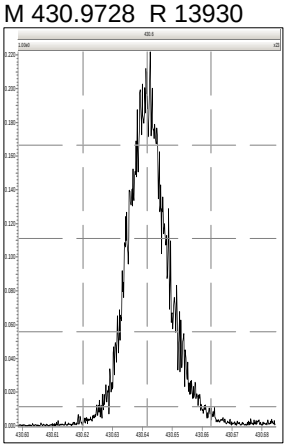

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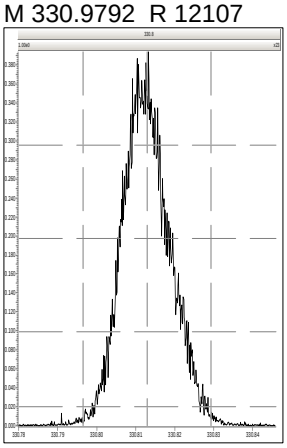

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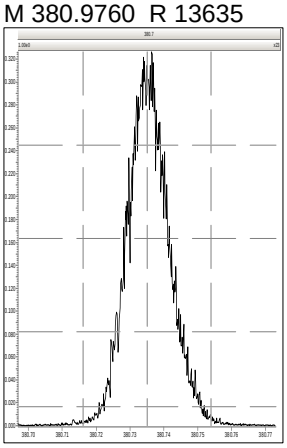

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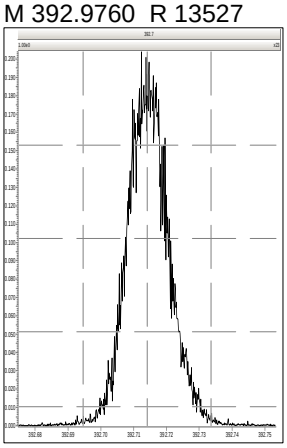

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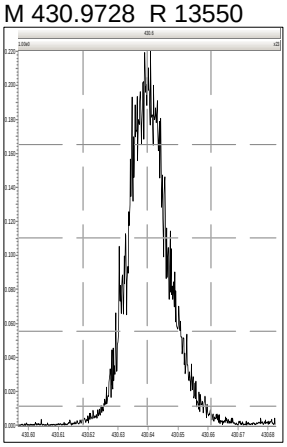

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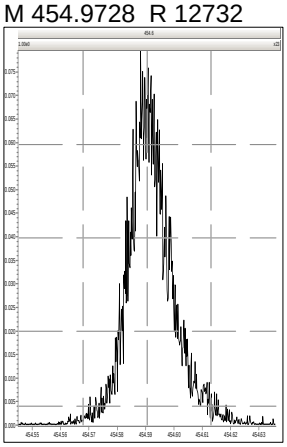
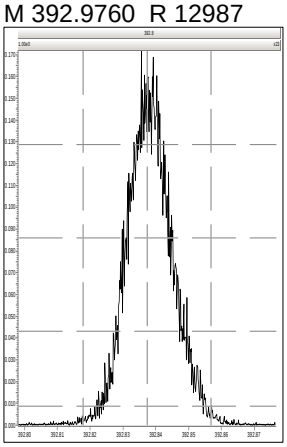


M 392.9760 R 12987



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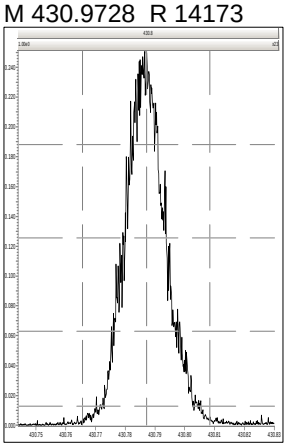

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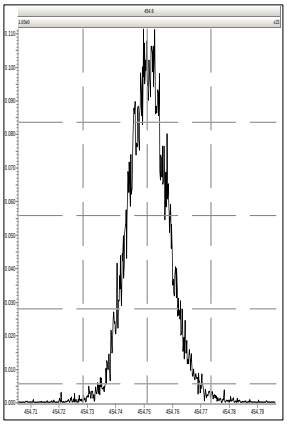

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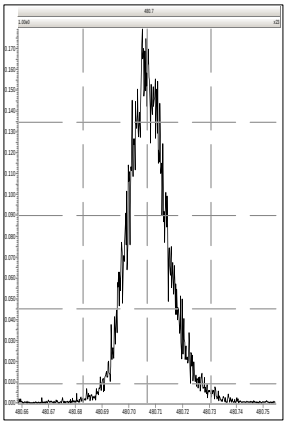

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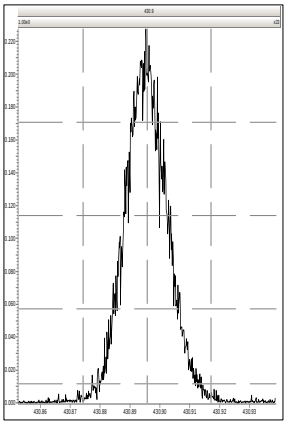

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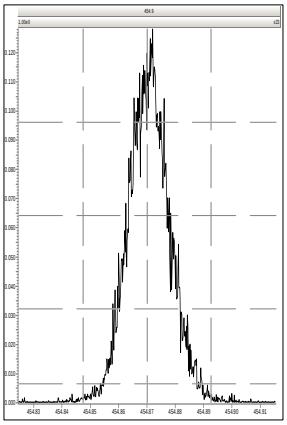

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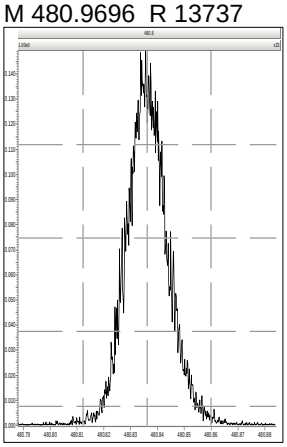

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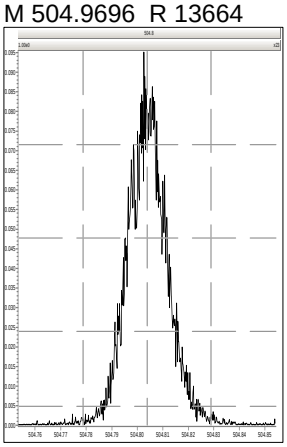

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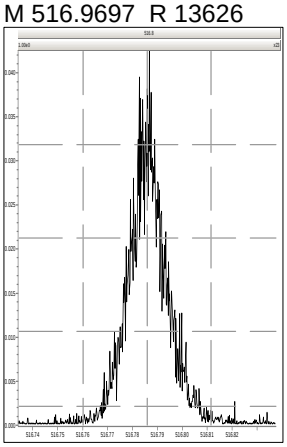

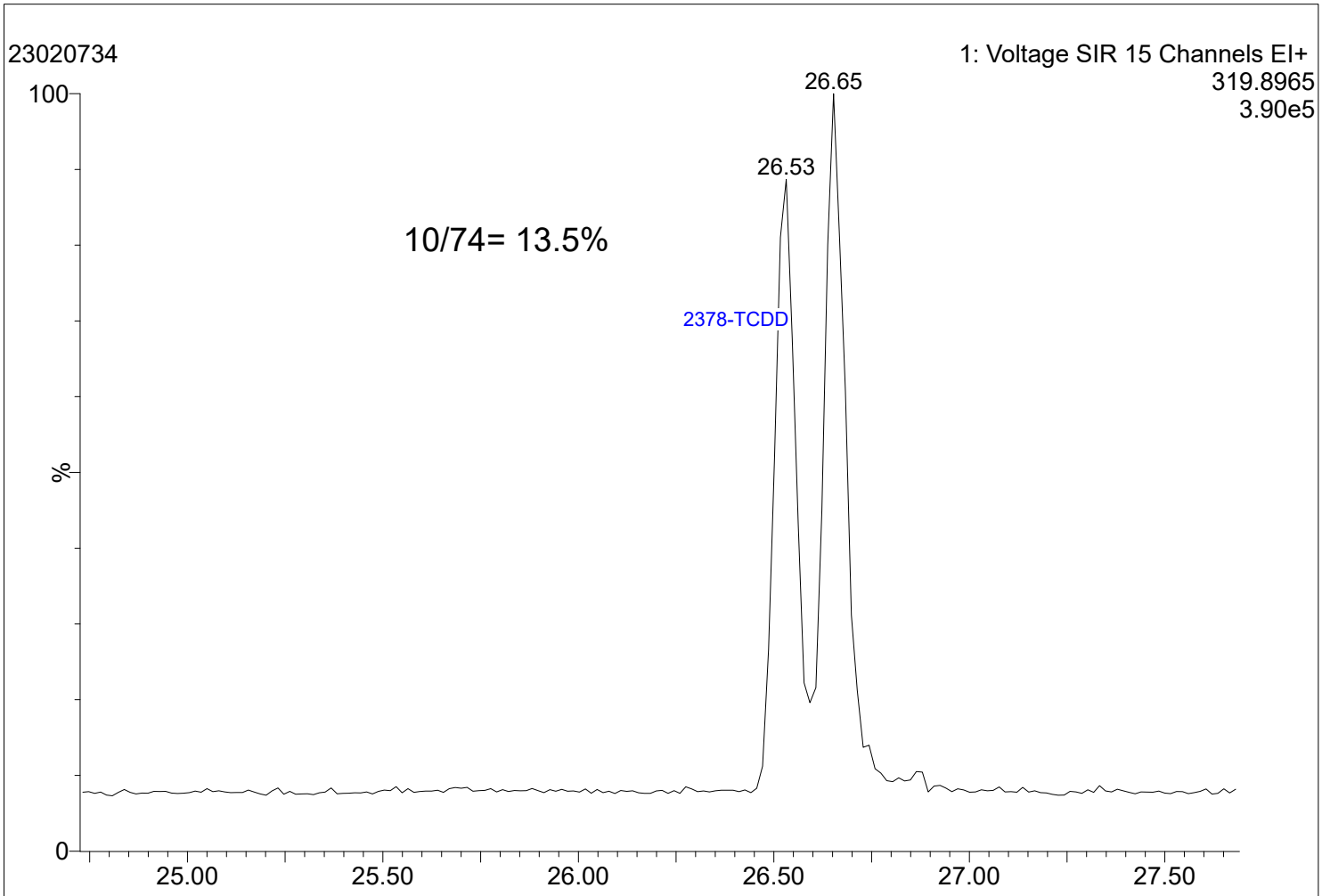
23020734
1: Voltage SIR 15 Channels EI+
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%
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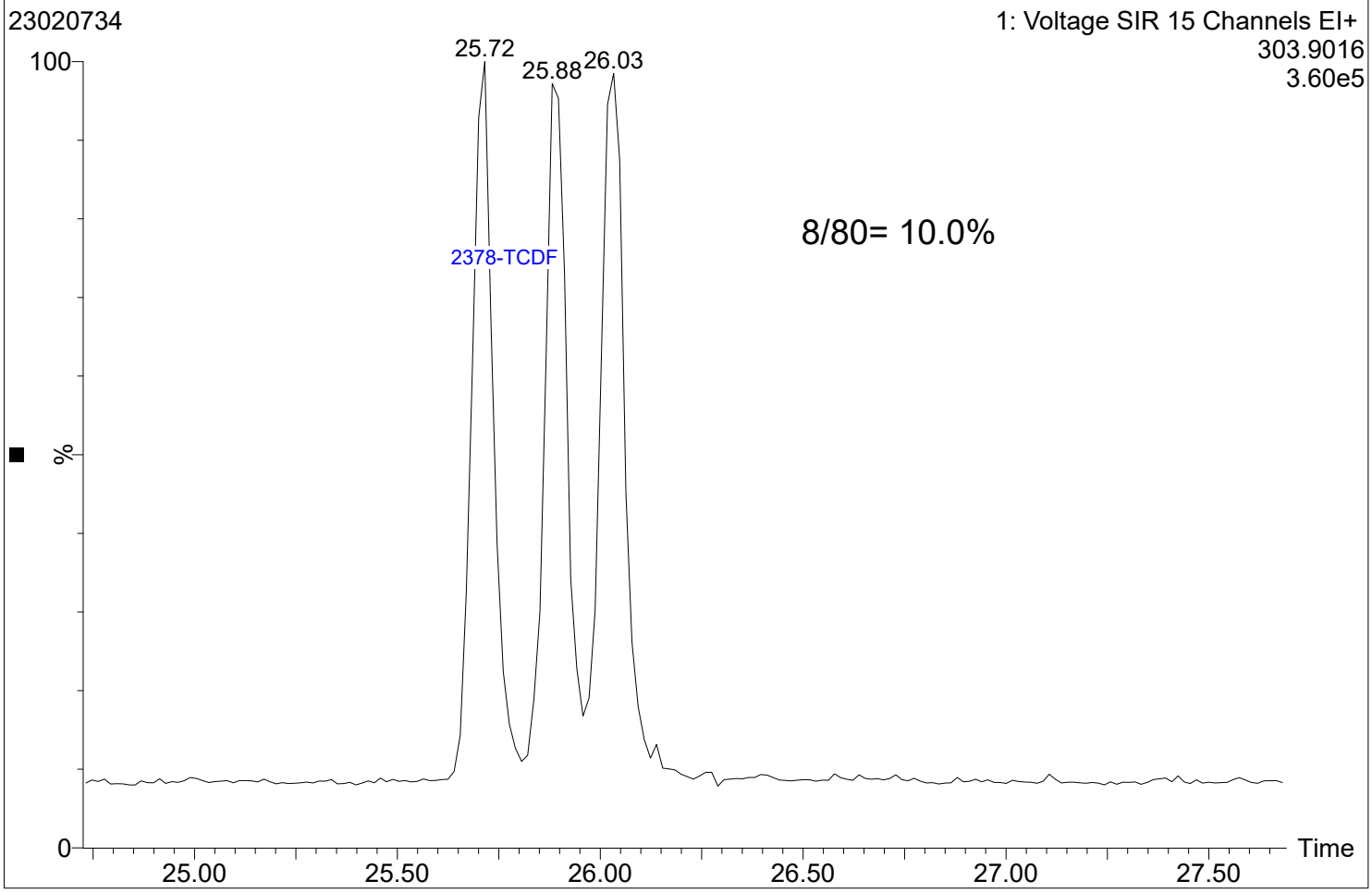
23020734
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8/80= 10.0%
2378-TCDF
%
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Time
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26.00
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Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC SDG: 22L0459

Instrument .ID: AUTOSPEC01 Lab File ID: 23020103

Date Analyzed: 02/01/23 Time Analyzed: 13:02

Lab Sample ID: SLB0026-RES1 Sequence: SLB0026

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 10.3

3467-TCDF/2378-TCDF: 10

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLB0026-ICV1	CS3R1	23020102	02/01/2023	10:37
SLB0026-RES1	ISCR1	23020103	02/01/2023	13:02
SLB0026-CAL1	CSLCR	23020104	02/01/2023	14:39
SLB0026-CAL2	CS1CR	23020105	02/01/2023	15:28
SLB0026-CAL3	CS2CR	23020106	02/01/2023	17:07
SLB0026-CAL4	CS3CR	23020107	02/01/2023	17:56
SLB0026-CAL5	CS4CR	23020108	02/01/2023	18:45
SLB0026-CAL6	CS5CR	23020109	02/01/2023	19:34
SLB0026-SCV1	ICVCR	23020110	02/01/2023	20:23
SLB0026-CCV1	CS3R2	23020111	02/01/2023	21:12
SLB0026-RES2	ISCR2	23020112	02/01/2023	22:06

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC
SDG: 22L0459
Instrument .ID: AUTOSPEC01
Lab File ID: 23020112
Date Analyzed: 02/01/23
Time Analyzed: 22:06
Lab Sample ID: SLB0026-RES2
Sequence: SLB0026

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 7.6

3467-TCDF/2378-TCDF: 9

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLB0026-ICV1	CS3R1	23020102	02/01/2023	10:37
SLB0026-RES1	ISCR1	23020103	02/01/2023	13:02
SLB0026-CAL1	CSLCR	23020104	02/01/2023	14:39
SLB0026-CAL2	CS1CR	23020105	02/01/2023	15:28
SLB0026-CAL3	CS2CR	23020106	02/01/2023	17:07
SLB0026-CAL4	CS3CR	23020107	02/01/2023	17:56
SLB0026-CAL5	CS4CR	23020108	02/01/2023	18:45
SLB0026-CAL6	CS5CR	23020109	02/01/2023	19:34
SLB0026-SCV1	ICVCR	23020110	02/01/2023	20:23
SLB0026-CCV1	CS3R2	23020111	02/01/2023	21:12
SLB0026-RES2	ISCR2	23020112	02/01/2023	22:06

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC SDG: 22L0459

Instrument .ID: AUTOSPEC01 Lab File ID: 23020703

Date Analyzed: 02/07/23 Time Analyzed: 10:20

Lab Sample ID: SLB0072-RES1 Sequence: SLB0072

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 11.4

3467-TCDF/2378-TCDF: 9.9

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLB0072-ICV1	CS3T1	23020702	02/07/2023	09:25
SLB0072-RES1	ISCT1	23020703	02/07/2023	10:20
BLA0079-BLK1	Blank	23020704	02/07/2023	11:09
BLA0079-BS1	LCS	23020705	02/07/2023	11:58
BLA0079-SRM1	Reference	23020706	02/07/2023	12:53
SLB0072-CCV1	CS3T2	23020712	02/07/2023	18:03
SLB0072-RES2	ISCT2	23020713	02/07/2023	18:57
22L0459-02	LDW23-SC1053C	23020718	02/07/2023	23:07
22L0459-06	LDW23-SC1070B	23020719	02/07/2023	23:56
SLB0072-CCV2	CS3T3	23020721	02/08/2023	01:35
SLB0072-RES3	ISCT3	23020722	02/08/2023	02:29
SLB0072-CCV3	CS3T4	23020733	02/08/2023	11:35

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC
SDG: 22L0459
Instrument .ID: AUTOSPEC01
Lab File ID: 23020713
Date Analyzed: 02/07/23
Time Analyzed: 18:57
Lab Sample ID: SLB0072-RES2
Sequence: SLB0072

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 11

3467-TCDF/2378-TCDF: 10.4

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLB0072-ICV1	CS3T1	23020702	02/07/2023	09:25
SLB0072-RES1	ISCT1	23020703	02/07/2023	10:20
BLA0079-BLK1	Blank	23020704	02/07/2023	11:09
BLA0079-BS1	LCS	23020705	02/07/2023	11:58
BLA0079-SRM1	Reference	23020706	02/07/2023	12:53
SLB0072-CCV1	CS3T2	23020712	02/07/2023	18:03
SLB0072-RES2	ISCT2	23020713	02/07/2023	18:57
22L0459-02	LDW23-SC1053C	23020718	02/07/2023	23:07
22L0459-06	LDW23-SC1070B	23020719	02/07/2023	23:56
SLB0072-CCV2	CS3T3	23020721	02/08/2023	01:35
SLB0072-RES3	ISCT3	23020722	02/08/2023	02:29
SLB0072-CCV3	CS3T4	23020733	02/08/2023	11:35

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC
SDG: 22L0459
Instrument .ID: AUTOSPEC01
Lab File ID: 23020722
Date Analyzed: 02/08/23
Time Analyzed: 02:29
Lab Sample ID: SLB0072-RES3
Sequence: SLB0072

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 10

3467-TCDF/2378-TCDF: 5

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLB0072-ICV1	CS3T1	23020702	02/07/2023	09:25
SLB0072-RES1	ISCT1	23020703	02/07/2023	10:20
BLA0079-BLK1	Blank	23020704	02/07/2023	11:09
BLA0079-BS1	LCS	23020705	02/07/2023	11:58
BLA0079-SRM1	Reference	23020706	02/07/2023	12:53
SLB0072-CCV1	CS3T2	23020712	02/07/2023	18:03
SLB0072-RES2	ISCT2	23020713	02/07/2023	18:57
22L0459-02	LDW23-SC1053C	23020718	02/07/2023	23:07
22L0459-06	LDW23-SC1070B	23020719	02/07/2023	23:56
SLB0072-CCV2	CS3T3	23020721	02/08/2023	01:35
SLB0072-RES3	ISCT3	23020722	02/08/2023	02:29
SLB0072-CCV3	CS3T4	23020733	02/08/2023	11:35

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0026	Instrument:	AUTOSPEC01
		Calibration:	GB00010

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3R1	SLB0026-ICV1	23020102	NA	02/01/23 10:37
ISCR1	SLB0026-RES1	23020103	NA	02/01/23 13:02
CSLCR	SLB0026-CAL1	23020104	NA	02/01/23 14:39
CS1CR	SLB0026-CAL2	23020105	NA	02/01/23 15:28
CS2CR	SLB0026-CAL3	23020106	NA	02/01/23 17:07
CS3CR	SLB0026-CAL4	23020107	NA	02/01/23 17:56
CS4CR	SLB0026-CAL5	23020108	NA	02/01/23 18:45
CS5CR	SLB0026-CAL6	23020109	NA	02/01/23 19:34
ICVCR	SLB0026-SCV1	23020110	NA	02/01/23 20:23
CS3R2	SLB0026-CCV1	23020111	NA	02/01/23 21:12
ISCR2	SLB0026-RES2	23020112	NA	02/01/23 22:06

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0072	Instrument:	AUTOSPEC01
		Calibration:	GB00010

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3T1	SLB0072-ICV1	23020702	NA	02/07/23 09:25
ISCT1	SLB0072-RES1	23020703	NA	02/07/23 10:20
Blank	BLA0079-BLK1	23020704	Solid	02/07/23 11:09
LCS	BLA0079-BS1	23020705	Solid	02/07/23 11:58
Reference	BLA0079-SRM1	23020706	Solid	02/07/23 12:53
CS3T2	SLB0072-CCV1	23020712	NA	02/07/23 18:03
ISCT2	SLB0072-RES2	23020713	NA	02/07/23 18:57
LDW23-SC1053C	22L0459-02	23020718	Solid	02/07/23 23:07
LDW23-SC1070B	22L0459-06	23020719	Solid	02/07/23 23:56
CS3T3	SLB0072-CCV2	23020721	NA	02/08/23 01:35
ISCT3	SLB0072-RES3	23020722	NA	02/08/23 02:29
CS3T4	SLB0072-CCV3	23020733	NA	02/08/23 11:35

Analytical Resources, LLC
Analytical Chemists and Consultants

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0026	Instrument:	AUTOSPEC01
Sample ID:	SLB0026-ICV1	Calibration:	GB00010
File ID:	23020102	Analyzed:	02/01/23 10:37

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	81.8	71 - 129	25.8667	25.87167	-0.0050	N/A	
13C12-2,3,7,8-TCDD	100.00	103	82 - 118	26.5168	26.51423	0.0026	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	97.0	76 - 124	30.0278	30.03173	-0.0039	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	96.3	77 - 123	31.3648	31.36872	-0.0039	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	97.3	62 - 138	31.621	31.62498	-0.0040	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	88.7	76 - 124	34.9858	34.9784	0.0074	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	89.6	70 - 130	35.1195	35.11773	0.0018	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	88.7	73 - 127	35.9773	35.97562	0.0017	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	87.8	74 - 126	37.0023	37.00233	0.0000	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	99.3	85 - 115	36.0998	36.09812	0.0017	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	102	85 - 115	36.2113	36.21508	-0.0038	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	80.6	78 - 122	38.8407	38.84072	0.0000	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	78.2	77 - 123	41.0912	41.09488	-0.0037	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	84.9	72 - 128	40.3447	40.3447	0.0000	N/A	
13C12-OCDD	200.00	87.8	48 - 152	45.1112	45.10738	0.0038	N/A	
37Cl4-2,3,7,8-TCDD	10.000	85.8	0 - 200	26.5318	26.53683	-0.0050	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0026	Instrument:	AUTOSPEC01
Sample ID:	SLB0026-SCV1	Calibration:	GB00010
File ID:	23020110	Analyzed:	02/01/23 20:23

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	101	0 - 200	25.8667	25.87167	-0.0050	N/A	
13C12-2,3,7,8-TCDD	100.00	97.3	0 - 200	26.5015	26.51423	-0.0127	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	97.9	0 - 200	30.0262	30.03173	-0.0055	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	96.0	0 - 200	31.3632	31.36872	-0.0055	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	95.6	0 - 200	31.6193	31.62498	-0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	99.0	0 - 200	34.9728	34.9784	-0.0056	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.8	0 - 200	35.1065	35.11773	-0.0112	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	99.3	0 - 200	35.9643	35.97562	-0.0113	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	98.6	0 - 200	36.9893	37.00233	-0.0130	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	97.7	0 - 200	36.0868	36.09812	-0.0113	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	101	0 - 200	36.2095	36.21508	-0.0056	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	100	0 - 200	38.8278	38.84072	-0.0129	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	101	0 - 200	41.0895	41.09488	-0.0054	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	101	0 - 200	40.3318	40.3447	-0.0129	N/A	
13C12-OCDD	200.00	103	0 - 200	45.1013	45.10738	-0.0061	N/A	
37Cl4-2,3,7,8-TCDD	10.000	89.4	0 - 200	26.5318	26.53683	-0.0050	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0026	Instrument:	AUTOSPEC01
Sample ID:	SLB0026-CCV1	Calibration:	GB00010
File ID:	23020111	Analyzed:	02/01/23 21:12

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	95.3	71 - 129	25.8665	25.87167	-0.0052	N/A	
13C12-2,3,7,8-TCDD	100.00	103	82 - 118	26.5167	26.51423	0.0025	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	97.8	76 - 124	30.026	30.03173	-0.0057	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	97.6	77 - 123	31.363	31.36872	-0.0057	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	95.1	62 - 138	31.6193	31.62498	-0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	102	76 - 124	34.9727	34.9784	-0.0057	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	102	70 - 130	35.1175	35.11773	-0.0002	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	99.6	73 - 127	35.9753	35.97562	-0.0003	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	101	74 - 126	37.0005	37.00233	-0.0018	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	100	85 - 115	36.098	36.09812	-0.0001	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	100	85 - 115	36.2093	36.21508	-0.0058	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	78 - 122	38.8387	38.84072	-0.0020	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	77 - 123	41.0893	41.09488	-0.0056	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	103	72 - 128	40.3428	40.3447	-0.0019	N/A	
13C12-OCDD	200.00	106	48 - 152	45.1013	45.10738	-0.0061	N/A	
37Cl4-2,3,7,8-TCDD	10.000	90.4	0 - 200	26.5317	26.53683	-0.0051	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0072	Instrument:	AUTOSPEC01
Sample ID:	SLB0072-ICV1	Calibration:	GB00010
File ID:	23020702	Analyzed:	02/07/23 09:25

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	88.9	71 - 129	25.8665	25.87167	-0.0052	N/A	
13C12-2,3,7,8-TCDD	100.00	104	82 - 118	26.5015	26.51423	-0.0127	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	98.1	76 - 124	30.026	30.03173	-0.0057	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	97.9	77 - 123	31.363	31.36872	-0.0057	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	99.5	62 - 138	31.6193	31.62498	-0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	91.1	76 - 124	34.9728	34.9784	-0.0056	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	93.8	70 - 130	35.1177	35.11773	0.0000	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.2	73 - 127	35.9757	35.97562	0.0001	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	91.3	74 - 126	37.0005	37.00233	-0.0018	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	101	85 - 115	36.087	36.09812	-0.0111	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	99.9	85 - 115	36.1983	36.21508	-0.0168	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	83.2	78 - 122	38.8388	38.84072	-0.0019	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	84.7	77 - 123	41.0893	41.09488	-0.0056	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	87.4	72 - 128	40.343	40.3447	-0.0017	N/A	
13C12-OCDD	200.00	81.7	48 - 152	45.1015	45.10738	-0.0059	N/A	
37Cl4-2,3,7,8-TCDD	10.000	88.7	0 - 200	26.5318	26.53683	-0.0050	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0072	Instrument:	AUTOSPEC01
Sample ID:	BLA0079-BLK1	Calibration:	GB00010
File ID:	23020704	Analyzed:	02/07/23 11:09

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	78.6	24 - 169	25.8665	25.87167	-0.0052	N/A	
13C12-2,3,7,8-TCDD	200.00	90.3	25 - 164	26.5165	26.51423	0.0023	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	92.3	24 - 185	30.0262	30.03173	-0.0055	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	89.0	21 - 178	31.363	31.36872	-0.0057	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	94.0	25 - 181	31.6082	31.62498	-0.0168	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	100	26 - 152	34.9728	34.9784	-0.0056	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	101	26 - 123	35.1177	35.11773	0.0000	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	98.5	28 - 136	35.9755	35.97562	-0.0001	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	94.3	29 - 147	37.0007	37.00233	-0.0016	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	106	32 - 141	36.087	36.09812	-0.0111	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	108	28 - 130	36.1983	36.21508	-0.0168	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	92.7	28 - 143	38.839	38.84072	-0.0017	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	93.5	26 - 138	41.0895	41.09488	-0.0054	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	96.6	23 - 140	40.343	40.3447	-0.0017	N/A	
13C12-OCDD	400.00	85.8	17 - 157	45.1017	45.10738	-0.0057	N/A	
37Cl4-2,3,7,8-TCDD	80.000	73.3	35 - 197	26.5317	26.53683	-0.0051	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0072	Instrument:	AUTOSPEC01
Sample ID:	BLA0079-BS1	Calibration:	GB00010
File ID:	23020705	Analyzed:	02/07/23 11:58

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	72.8	24 - 169	25.8515	25.87167	-0.0202	N/A	
13C12-2,3,7,8-TCDD	200.00	84.3	25 - 164	26.4865	26.51423	-0.0277	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	83.9	24 - 185	30.0152	30.03173	-0.0165	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	80.7	21 - 178	31.352	31.36872	-0.0167	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	83.8	25 - 181	31.6083	31.62498	-0.0167	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	77.6	26 - 152	34.9618	34.9784	-0.0166	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	79.1	26 - 123	35.1067	35.11773	-0.0110	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	76.9	28 - 136	35.9645	35.97562	-0.0111	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	75.1	29 - 147	36.9895	37.00233	-0.0128	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	81.0	32 - 141	36.0758	36.09812	-0.0223	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	82.2	28 - 130	36.1873	36.21508	-0.0278	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	72.9	28 - 143	38.828	38.84072	-0.0127	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	76.2	26 - 138	41.0785	41.09488	-0.0164	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	78.7	23 - 140	40.332	40.3447	-0.0127	N/A	
13C12-OCDD	400.00	70.4	17 - 157	45.0927	45.10738	-0.0147	N/A	
37Cl4-2,3,7,8-TCDD	80.000	73.1	35 - 197	26.5168	26.53683	-0.0200	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0072	Instrument:	AUTOSPEC01
Sample ID:	BLA0079-SRM1	Calibration:	GB00010
File ID:	23020706	Analyzed:	02/07/23 12:53

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	81.1	24 - 169	25.8817	25.87167	0.0100	N/A	
13C12-2,3,7,8-TCDD	200.00	91.9	25 - 164	26.5167	26.51423	0.0025	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	94.6	24 - 185	30.0373	30.03173	0.0056	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	93.5	21 - 178	31.3743	31.36872	0.0056	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	94.5	25 - 181	31.6307	31.62498	0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	91.0	26 - 152	34.9952	34.9784	0.0168	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	93.1	26 - 123	35.1288	35.11773	0.0111	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	92.7	28 - 136	36.0092	35.97562	0.0336	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	93.3	29 - 147	37.0118	37.00233	0.0095	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	99.5	32 - 141	36.1205	36.09812	0.0224	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	100	28 - 130	36.232	36.21508	0.0169	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	86.8	28 - 143	38.8502	38.84072	0.0095	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	90.0	26 - 138	41.1007	41.09488	0.0058	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	90.1	23 - 140	40.3542	40.3447	0.0095	N/A	
13C12-OCDD	400.00	80.8	17 - 157	45.12	45.10738	0.0126	N/A	
37Cl4-2,3,7,8-TCDD	80.000	74.9	35 - 197	26.5468	26.53683	0.0100	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0072	Instrument:	AUTOSPEC01
Sample ID:	SLB0072-CCV1	Calibration:	GB00010
File ID:	23020712	Analyzed:	02/07/23 18:03

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	90.4	71 - 129	25.8667	25.87167	-0.0050	N/A	
13C12-2,3,7,8-TCDD	100.00	104	82 - 118	26.5017	26.51423	-0.0125	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	96.8	76 - 124	30.015	30.03173	-0.0167	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	98.7	77 - 123	31.352	31.36872	-0.0167	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	104	62 - 138	31.6083	31.62498	-0.0167	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	98.0	76 - 124	34.9728	34.9784	-0.0056	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.4	70 - 130	35.1177	35.11773	0.0000	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	97.4	73 - 127	35.9757	35.97562	0.0001	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	99.4	74 - 126	37.0007	37.00233	-0.0016	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	109	85 - 115	36.087	36.09812	-0.0111	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	107	85 - 115	36.1985	36.21508	-0.0166	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	90.9	78 - 122	38.839	38.84072	-0.0017	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	93.7	77 - 123	41.0895	41.09488	-0.0054	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	100	72 - 128	40.343	40.3447	-0.0017	N/A	
13C12-OCDD	200.00	90.4	48 - 152	45.1017	45.10738	-0.0057	N/A	
37Cl4-2,3,7,8-TCDD	10.000	91.0	0 - 200	26.5168	26.53683	-0.0200	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0072	Instrument:	AUTOSPEC01
Sample ID:	22L0459-02	Calibration:	GB00010
File ID:	23020718	Analyzed:	02/07/23 23:07

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.99	79.8	24 - 169	25.8665	25.87167	-0.0052	N/A	
13C12-2,3,7,8-TCDD	199.99	96.6	25 - 164	26.5017	26.51423	-0.0125	N/A	
13C12-1,2,3,7,8-PeCDF	199.99	87.1	24 - 185	30.0373	30.03173	0.0056	N/A	
13C12-2,3,4,7,8-PeCDF	199.99	87.2	21 - 178	31.3742	31.36872	0.0055	N/A	
13C12-1,2,3,7,8-PeCDD	199.99	93.3	25 - 181	31.6193	31.62498	-0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.99	82.1	26 - 152	34.9952	34.9784	0.0168	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.99	80.7	26 - 123	35.1288	35.11773	0.0111	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.99	84.0	28 - 136	36.009	35.97562	0.0334	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.99	80.7	29 - 147	37.0117	37.00233	0.0094	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.99	95.5	32 - 141	36.1205	36.09812	0.0224	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.99	92.9	28 - 130	36.2318	36.21508	0.0167	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.99	74.0	28 - 143	38.861	38.84072	0.0203	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.99	77.1	26 - 138	41.1003	41.09488	0.0054	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.99	79.1	23 - 140	40.354	40.3447	0.0093	N/A	
13C12-OCDD	399.98	73.2	17 - 157	45.138	45.10738	0.0306	N/A	
37Cl4-2,3,7,8-TCDD	79.997	76.9	35 - 197	26.5318	26.53683	-0.0050	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0072	Instrument:	AUTOSPEC01
Sample ID:	22L0459-06	Calibration:	GB00010
File ID:	23020719	Analyzed:	02/07/23 23:56

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.40	81.2	24 - 169	25.8667	25.87167	-0.0050	N/A	
13C12-2,3,7,8-TCDD	199.40	97.9	25 - 164	26.5017	26.51423	-0.0125	N/A	
13C12-1,2,3,7,8-PeCDF	199.40	87.4	24 - 185	30.0373	30.03173	0.0056	N/A	
13C12-2,3,4,7,8-PeCDF	199.40	86.6	21 - 178	31.3743	31.36872	0.0056	N/A	
13C12-1,2,3,7,8-PeCDD	199.40	92.3	25 - 181	31.6195	31.62498	-0.0055	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.40	85.8	26 - 152	34.9842	34.9784	0.0058	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.40	83.6	26 - 123	35.129	35.11773	0.0113	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.40	84.2	28 - 136	35.9868	35.97562	0.0112	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.40	84.5	29 - 147	37.0118	37.00233	0.0095	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.40	96.8	32 - 141	36.0983	36.09812	0.0002	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.40	91.7	28 - 130	36.2208	36.21508	0.0057	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.40	73.4	28 - 143	38.8613	38.84072	0.0206	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.40	74.4	26 - 138	41.1118	41.09488	0.0169	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.40	76.6	23 - 140	40.3542	40.3447	0.0095	N/A	
13C12-OCDD	398.79	69.5	17 - 157	45.1383	45.10738	0.0309	N/A	
37Cl4-2,3,7,8-TCDD	79.759	81.1	35 - 197	26.5318	26.53683	-0.0050	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0072	Instrument:	AUTOSPEC01
Sample ID:	SLB0072-CCV2	Calibration:	GB00010
File ID:	23020721	Analyzed:	02/08/23 01:35

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	90.4	71 - 129	25.8513	25.87167	-0.0204	N/A	
13C12-2,3,7,8-TCDD	100.00	104	82 - 118	26.4863	26.51423	-0.0279	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	96.0	76 - 124	30.015	30.03173	-0.0167	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	94.8	77 - 123	31.3407	31.36872	-0.0280	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	103	62 - 138	31.5968	31.62498	-0.0282	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	82.8	76 - 124	34.9617	34.9784	-0.0167	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	81.2	70 - 130	35.1065	35.11773	-0.0112	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	84.2	73 - 127	35.9643	35.97562	-0.0113	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	82.9	74 - 126	36.9893	37.00233	-0.0130	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	92.3	85 - 115	36.0758	36.09812	-0.0223	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	90.7	85 - 115	36.1872	36.21508	-0.0279	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	75.3	78 - 122	38.8388	38.84072	-0.0019	N/A	*
13C12-1,2,3,4,7,8,9-HpCDF	100.00	77.6	77 - 123	41.0783	41.09488	-0.0166	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	84.6	72 - 128	40.3318	40.3447	-0.0129	N/A	
13C12-OCDD	200.00	79.6	48 - 152	45.1108	45.10738	0.0034	N/A	
37Cl4-2,3,7,8-TCDD	10.000	91.0	0 - 200	26.5015	26.53683	-0.0353	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0072	Instrument:	AUTOSPEC01
Sample ID:	SLB0072-CCV3	Calibration:	GB00010
File ID:	23020733	Analyzed:	02/08/23 11:35

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	90.3	71 - 129	25.8363	25.87167	-0.0354	N/A	
13C12-2,3,7,8-TCDD	100.00	103	82 - 118	26.4713	26.51423	-0.0429	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	98.3	76 - 124	30.004	30.03173	-0.0277	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	95.8	77 - 123	31.341	31.36872	-0.0277	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	102	62 - 138	31.586	31.62498	-0.0390	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	85.7	76 - 124	34.962	34.9784	-0.0164	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	87.9	70 - 130	35.0957	35.11773	-0.0220	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	87.1	73 - 127	35.9645	35.97562	-0.0111	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	85.1	74 - 126	36.9897	37.00233	-0.0126	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	101	85 - 115	36.076	36.09812	-0.0221	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	98.7	85 - 115	36.1875	36.21508	-0.0276	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	81.2	78 - 122	38.839	38.84072	-0.0017	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	84.1	77 - 123	41.0785	41.09488	-0.0164	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	90.4	72 - 128	40.332	40.3447	-0.0127	N/A	
13C12-OCDD	200.00	85.6	48 - 152	45.1108	45.10738	0.0034	N/A	
37Cl4-2,3,7,8-TCDD	10.000	89.0	0 - 200	26.4865	26.53683	-0.0503	N/A	

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SC1053C 22L0459-02	12/16/22 09:12	12/16/22 15:47	01/09/23 15:50	24	14	02/07/23 23:07	29	365	*
LDW23-SC1070B 22L0459-06	12/16/22 12:01	12/16/22 15:47	01/09/23 15:50	24	14	02/07/23 23:56	29	365	*

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: AUTOSPEC01

Analyte	MDL	RL	Units
2,3,7,8-TCDF	0.058	1.00	ng/kg
2,3,7,8-TCDD	0.150	1.00	ng/kg
1,2,3,7,8-PeCDF	0.240	1.00	ng/kg
2,3,4,7,8-PeCDF	0.220	1.00	ng/kg
1,2,3,7,8-PeCDD	0.170	1.00	ng/kg
1,2,3,4,7,8-HxCDF	0.280	1.00	ng/kg
1,2,3,6,7,8-HxCDF	0.200	1.00	ng/kg
2,3,4,6,7,8-HxCDF	0.170	1.00	ng/kg
1,2,3,7,8,9-HxCDF	0.190	1.00	ng/kg
1,2,3,4,7,8-HxCDD	0.170	1.00	ng/kg
1,2,3,6,7,8-HxCDD	0.180	1.00	ng/kg
1,2,3,7,8,9-HxCDD	0.220	1.00	ng/kg
1,2,3,4,6,7,8-HpCDF	0.210	1.00	ng/kg
1,2,3,4,7,8,9-HpCDF	0.240	1.00	ng/kg
1,2,3,4,6,7,8-HpCDD	0.560	2.50	ng/kg
OCDF	1.10	2.50	ng/kg
OCDD	4.60	10.0	ng/kg
Total TCDF		1.00	ng/kg
Total TCDD		1.00	ng/kg
Total PeCDF		1.00	ng/kg
Total PeCDD		1.00	ng/kg
Total HxCDF		1.00	ng/kg
Total HxCDD		1.00	ng/kg
Total HpCDF		1.00	ng/kg
Total HpCDD		1.00	ng/kg

CS3WT

Calibration and Verification Solution (EPA-1613CS3) combined with Window Defining and 2,3,7,8-TCDD Resolution Testing Congeners

PRODUCT CODE:	CS3WT
LOT NUMBER:	CS3WT0918
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/24/2018
LAST TESTED: (mm/dd/yyyy)	10/29/2018
EXPIRY DATE: (mm/dd/yyyy)	10/29/2025
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

CS3WT is a solution/mixture of native and $^{13}C_{12}$-labelled chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

CS3WT was designed and prepared to be used as a HRMS calibration standard according to U.S. EPA Method 1613B.

It is to be used for calibration verification in place of EPA-1613CS3 (Lot: 13CS30918). It also contains the PCDD and PCDF window defining congeners for a DB-5 (or equivalent) capillary column as well as the TCDD isomers required to test and confirm the resolution of 2,3,7,8-TCDD.

The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%. The individual native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of >98%; the other congeners (window defining and resolution testing) should only be considered semi-quantitative.

This current lot of CS3WT is to be used with the 1613 calibration solutions having the following lot numbers:

PRODUCT CODE	LOT NUMBER
EPA-1613CS1	13CS10918
EPA-1613CS2	13CS20918
EPA-1613CS3	13CS30918
EPA-1613CS4	13CS40918
EPA-1613CS5	13CS50918
EPA-1613CSL	13CSL0918
EPA-1613CS0.5	13CS0.50918

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519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.
- Only the 2,3,7,8-substituted PCDDs and PCDFs should be used for quantitation. The other congeners (window defining and 2378-TCDD resolution testing) should be considered semi-quantitative (within ±20% of their design value). Impurities have been identified where possible.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: CS3WT; Components and Concentrations (ng/ml, in nonane/4.5% toluene)

QUANTITATIVE ANALYTES (ng/ml, ±5%)	
Native PCDDs & PCDFs:	
2,3,7,8-TCDD	10
2,3,7,8-TCDF	10
1,2,3,7,8-PeCDD	50
1,2,3,7,8-PeCDF	50
2,3,4,7,8-PeCDF	50
1,2,3,4,7,8-HxCDD	50
1,2,3,6,7,8-HxCDD	50
1,2,3,7,8,9-HxCDD	50
1,2,3,4,7,8-HxCDF	50
1,2,3,6,7,8-HxCDF	50
1,2,3,7,8,9-HxCDF	50
2,3,4,6,7,8-HxCDF	50
1,2,3,4,6,7,8-HpCDD *(WD)*	50
1,2,3,4,6,7,8-HpCDF *(WD)*	50
1,2,3,4,7,8,9-HpCDF *(WD)*	50
OCDD	100
OCDF	100
Labelled PCDDs & PCDFs:	
$^{13}C_{12}$-2,3,7,8-TCDD	100
$^{13}C_{12}$-2,3,7,8-TCDF	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100
$^{13}C_{12}$-OCDD	200
Cleanup Standard:	
$^{37}Cl_4$-2,3,7,8-TCDD	10
Internal Standards:	
$^{13}C_{12}$-1,2,3,4-TCDD	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100

SEMI-QUANTITATIVE ANALYTES (ng/ml, ±20%)	
Window Definers:*	
1,3,6,8-TCDD	10
1,2,8,9-TCDD	10
1,3,6,8-TCDF	10
1,2,8,9-TCDF	10
1,2,4,6,8/1,2,4,7,9-PeCDD	50
1,2,3,8,9-PeCDD	50
1,3,4,6,8-PeCDF	50
1,2,3,8,9-PeCDF	50
1,2,4,6,7,9-HxCDD	50
1,2,3,4,6,8-HxCDF	50
1,2,3,4,6,7,9-HpCDD	50
2378-TCDD Resolution Testing Isomers:	
1,2,3,4-TCDD	5
1,2,3,7/1,2,3,8-TCDD	5
1,2,3,9-TCDD	10

** 1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD. Use 1,2,3,4,6,7,9-HpCDD to set window.*

** 1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF. Use 1,2,3,4,6,7,8-HpCDF to set window.*

WD – Window Definer

Certified By: _____ **Date:** 10/30/2018
(mm/dd/yyyy)

B.G. Chittim, General Manager

Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

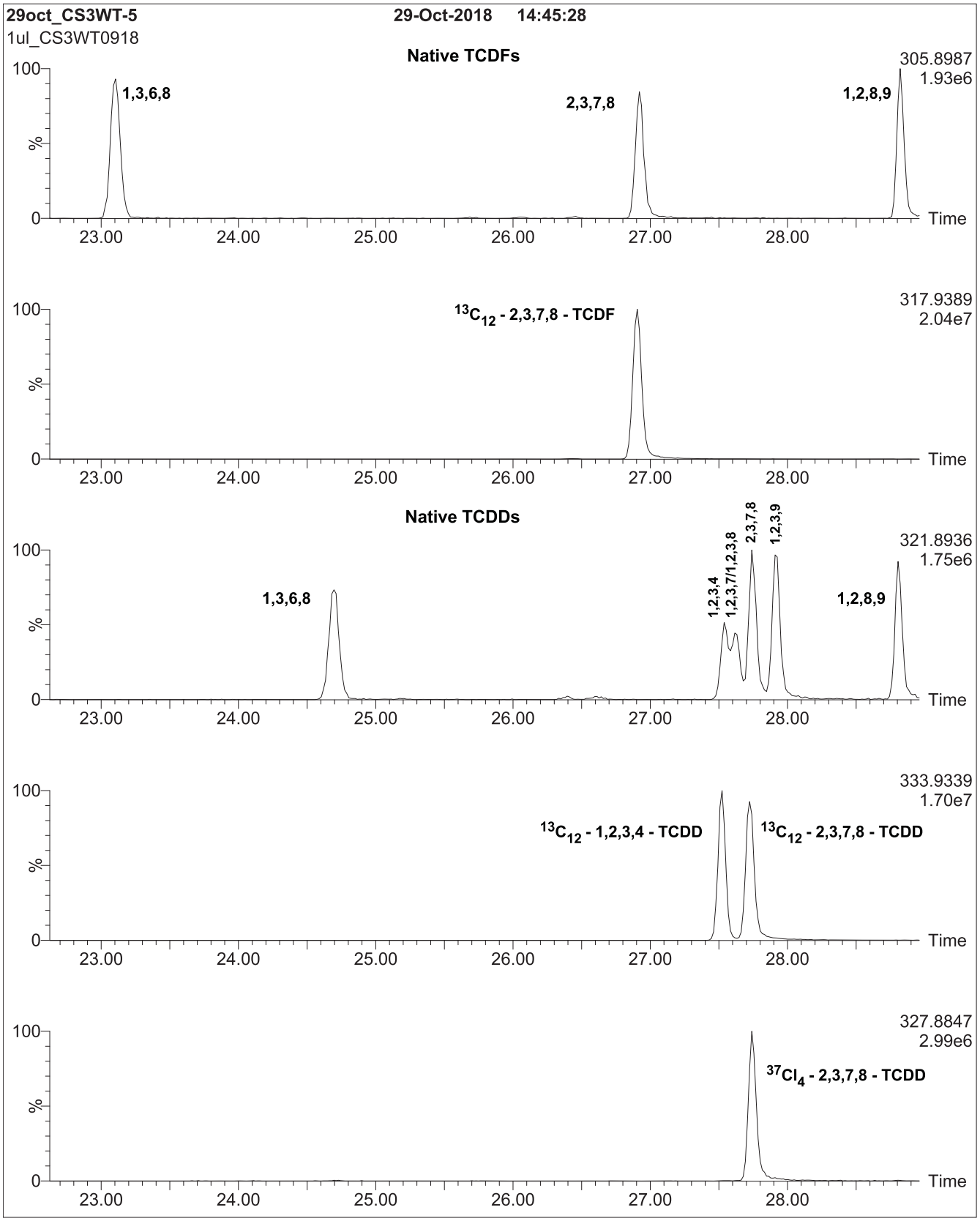


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

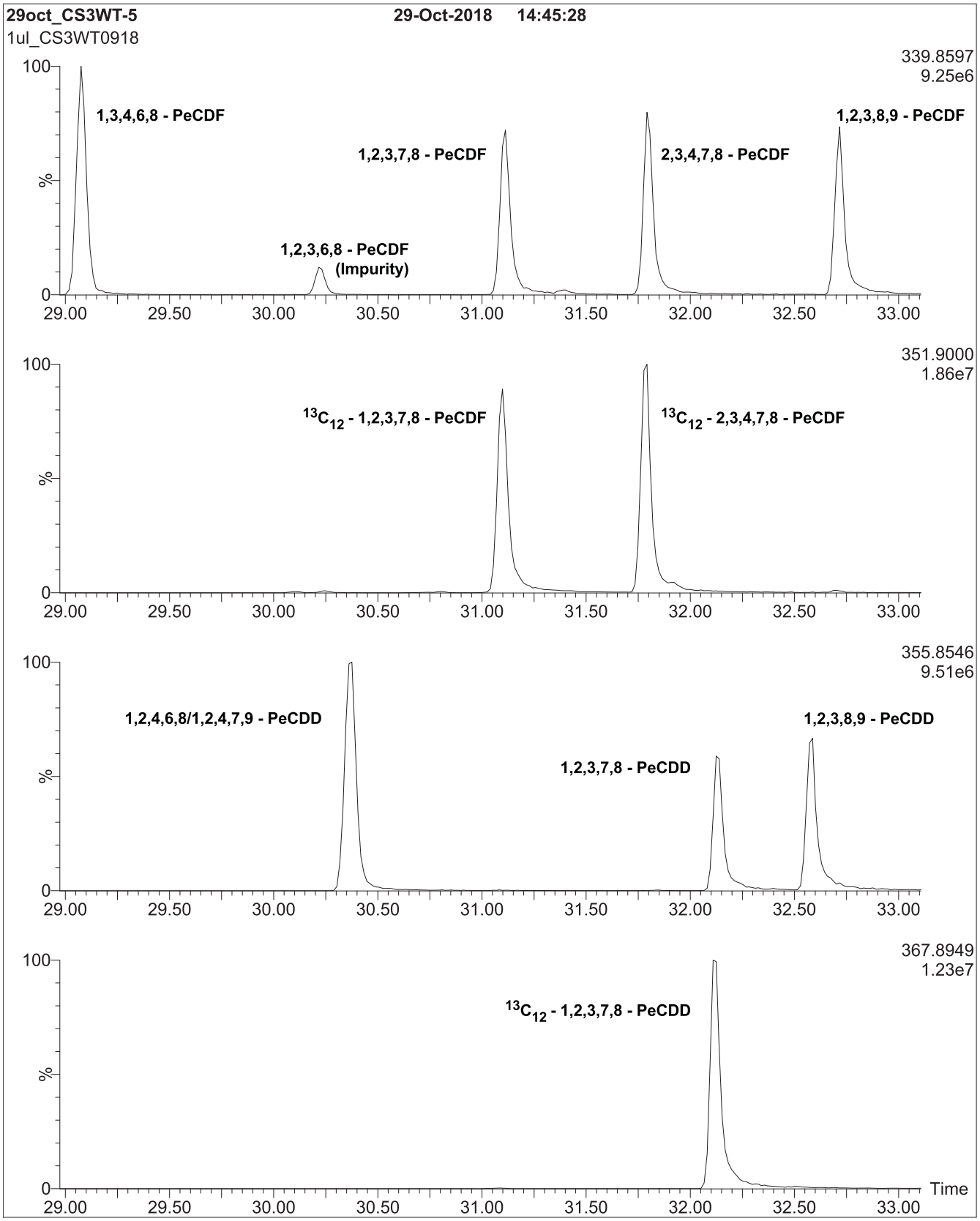


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

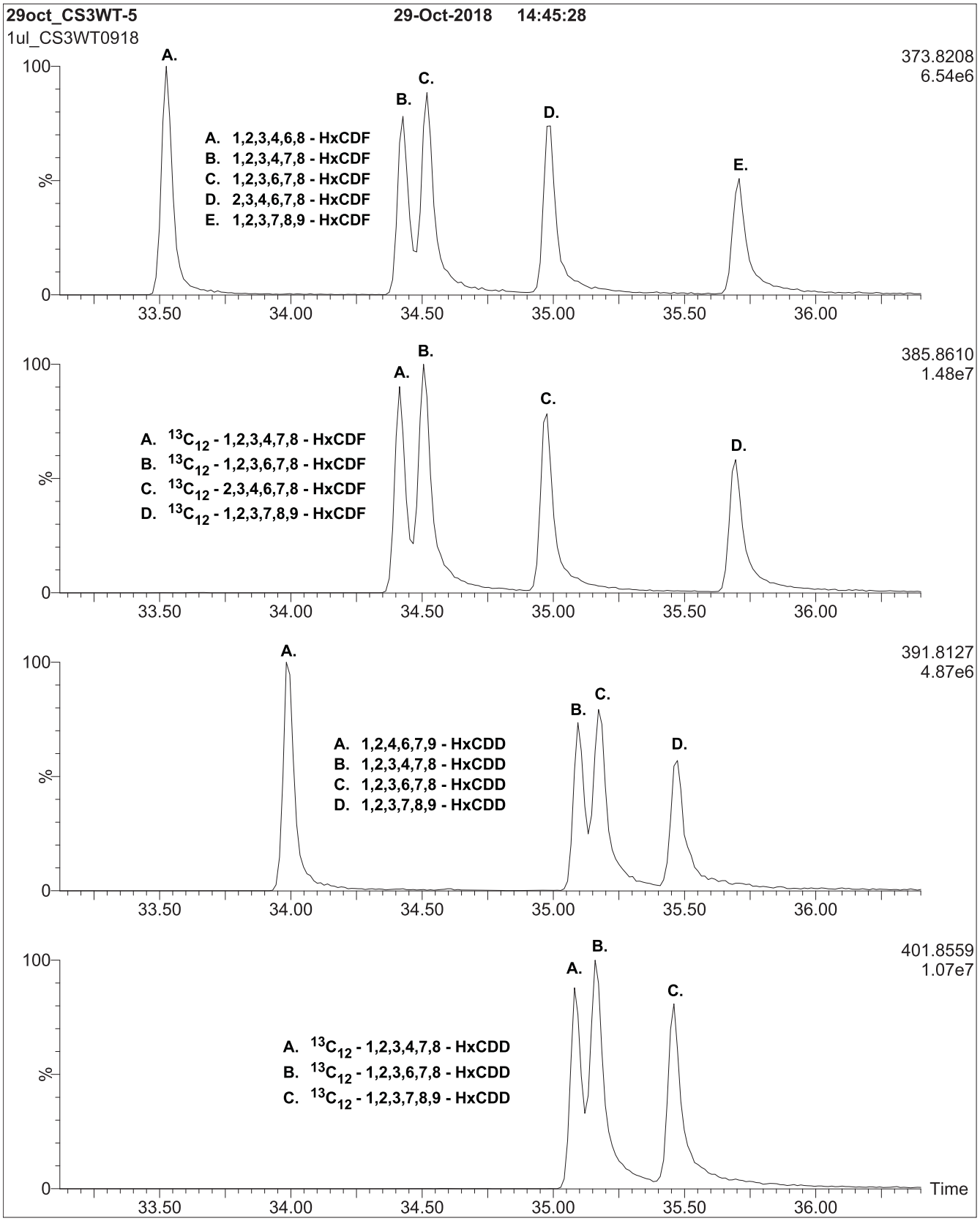


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

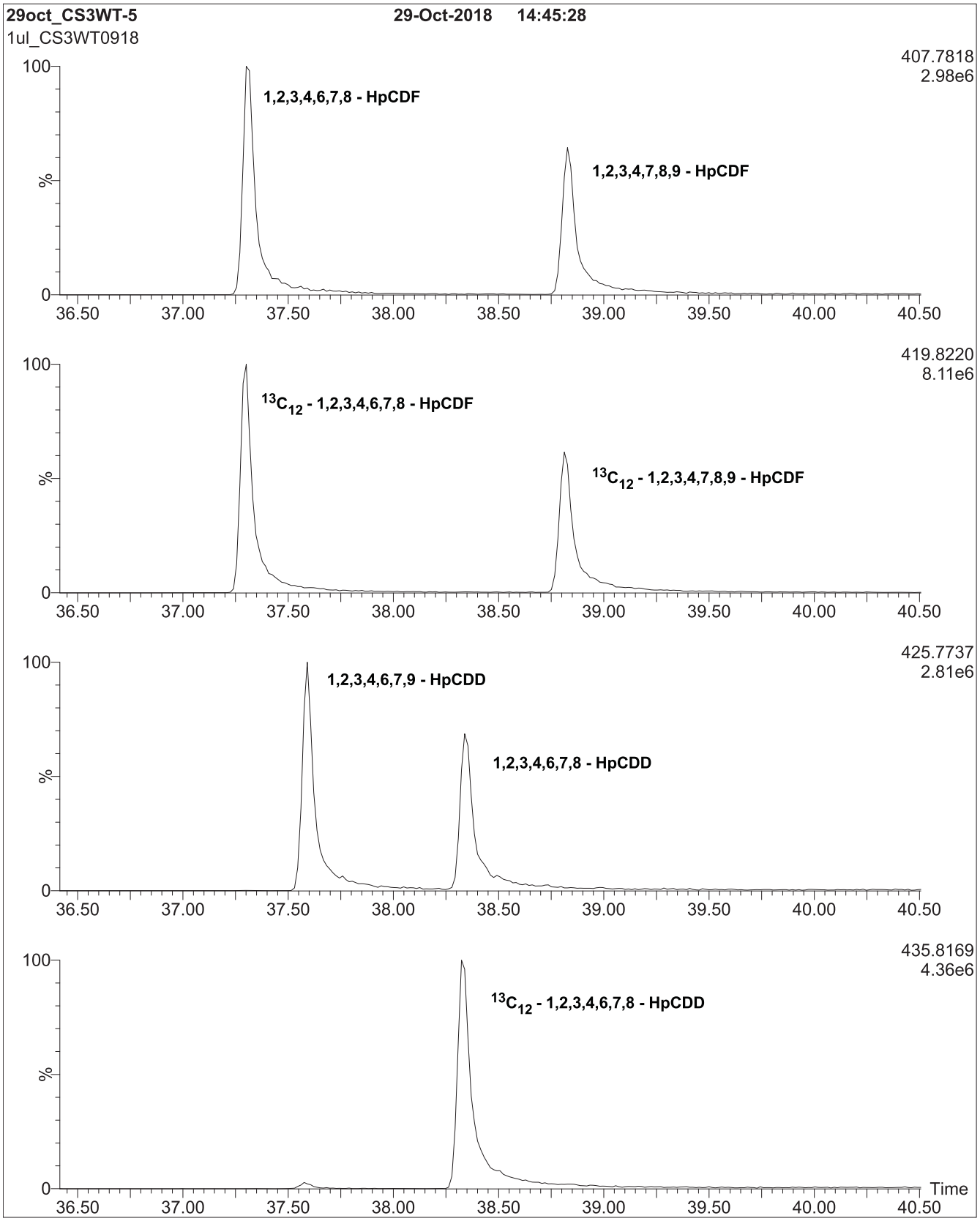
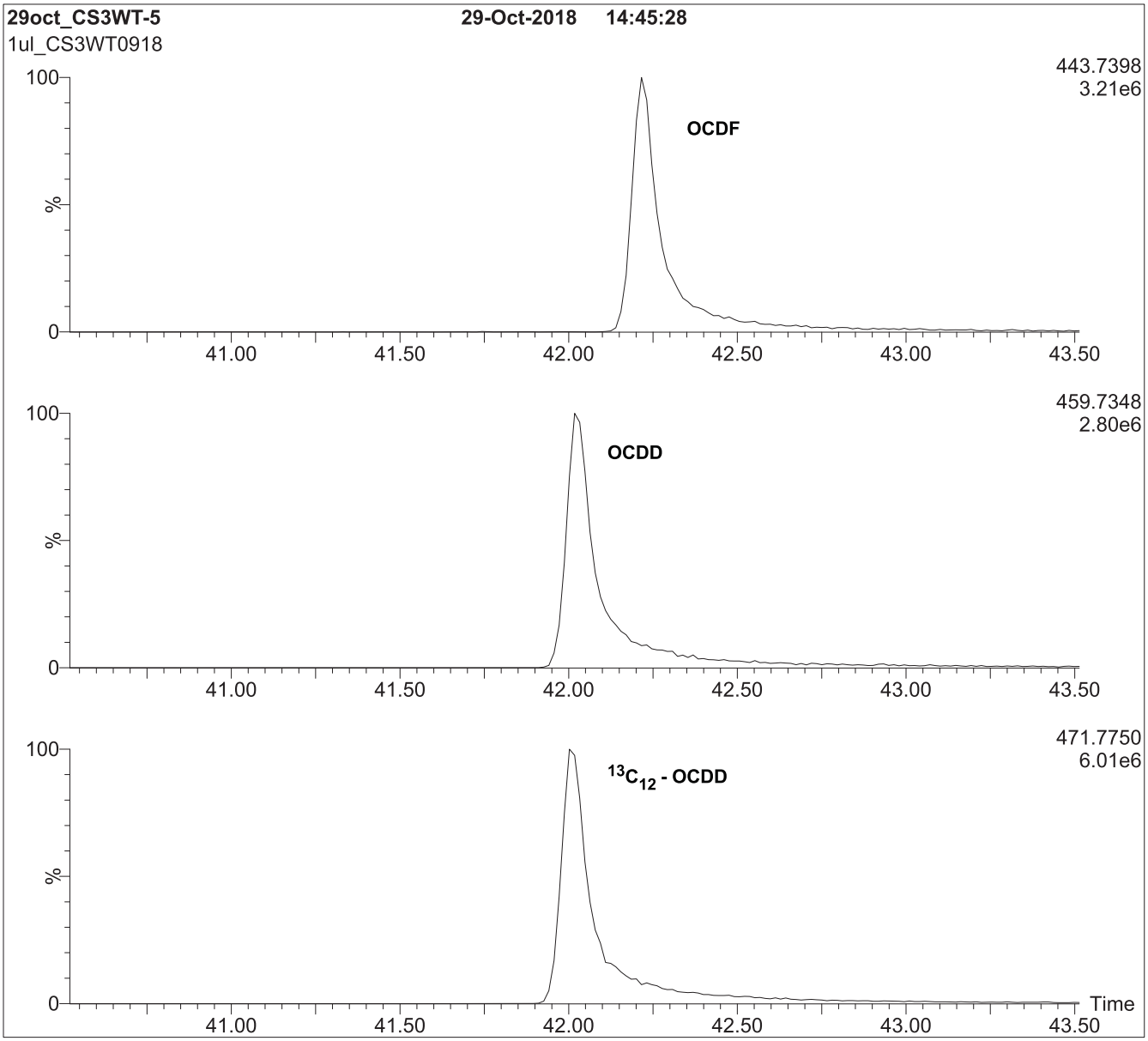


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005456
1613 CS1 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

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Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

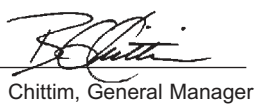
CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:  **Date:** 10/25/2019
(mm/dd/yyyy)

B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

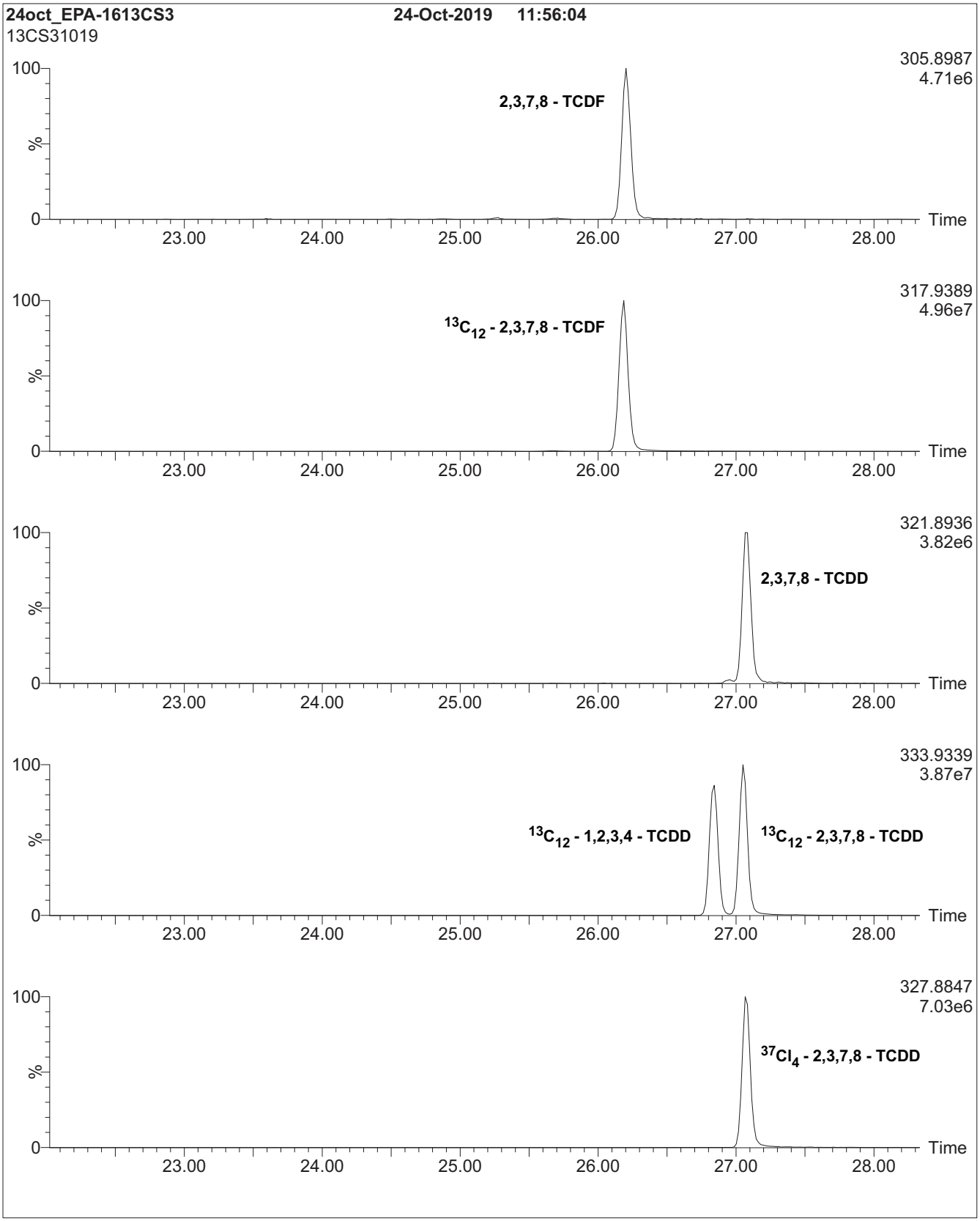


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

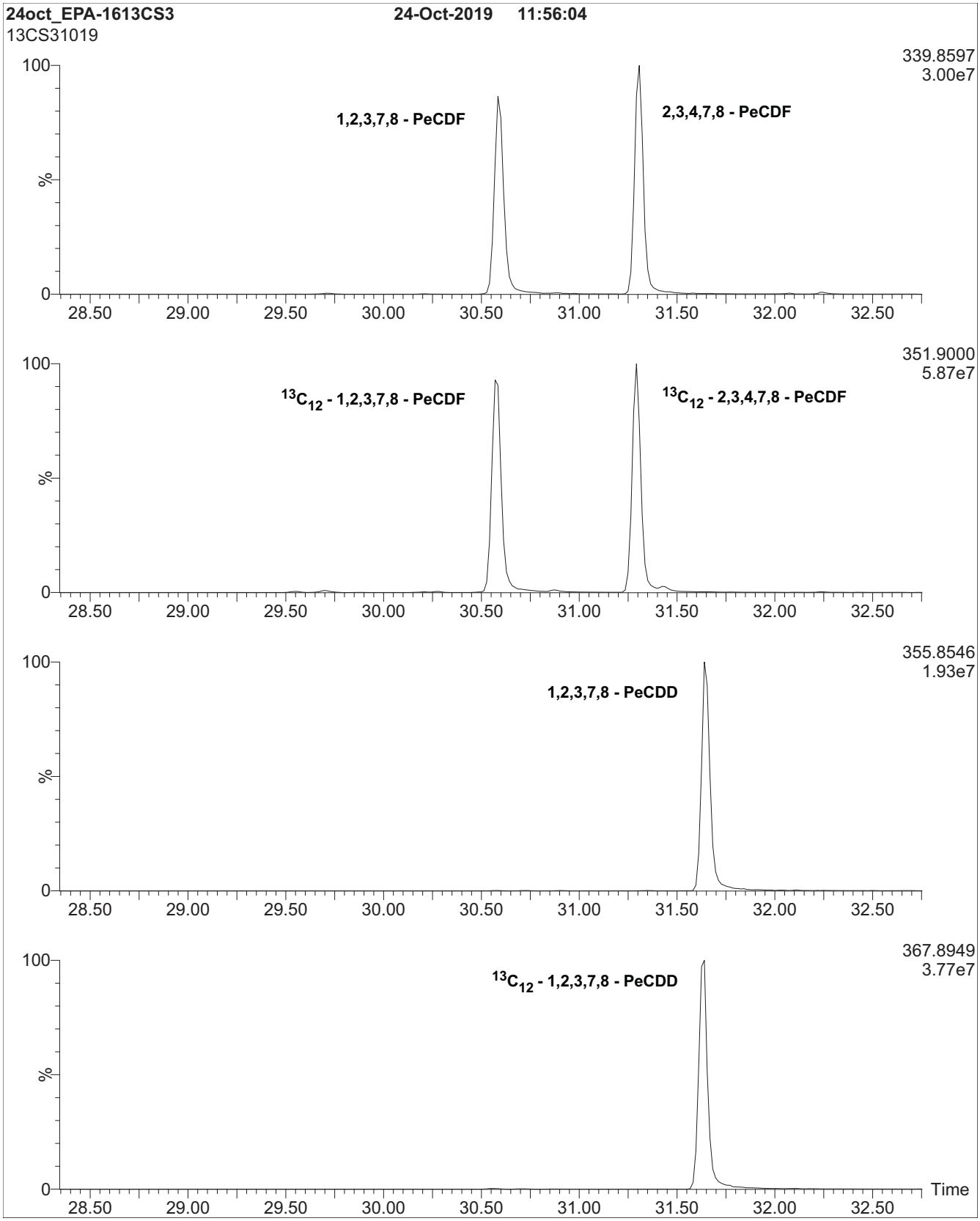


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

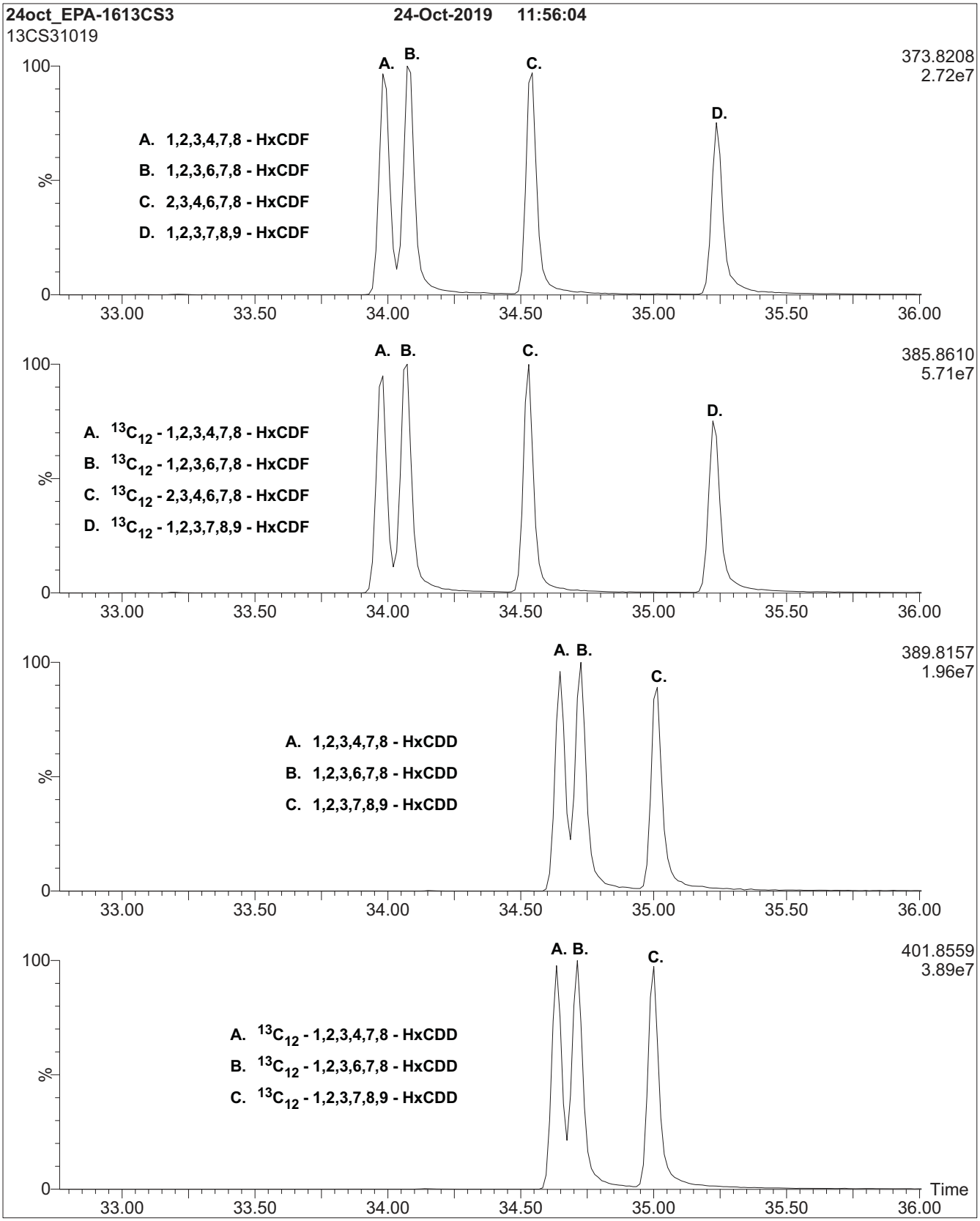


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

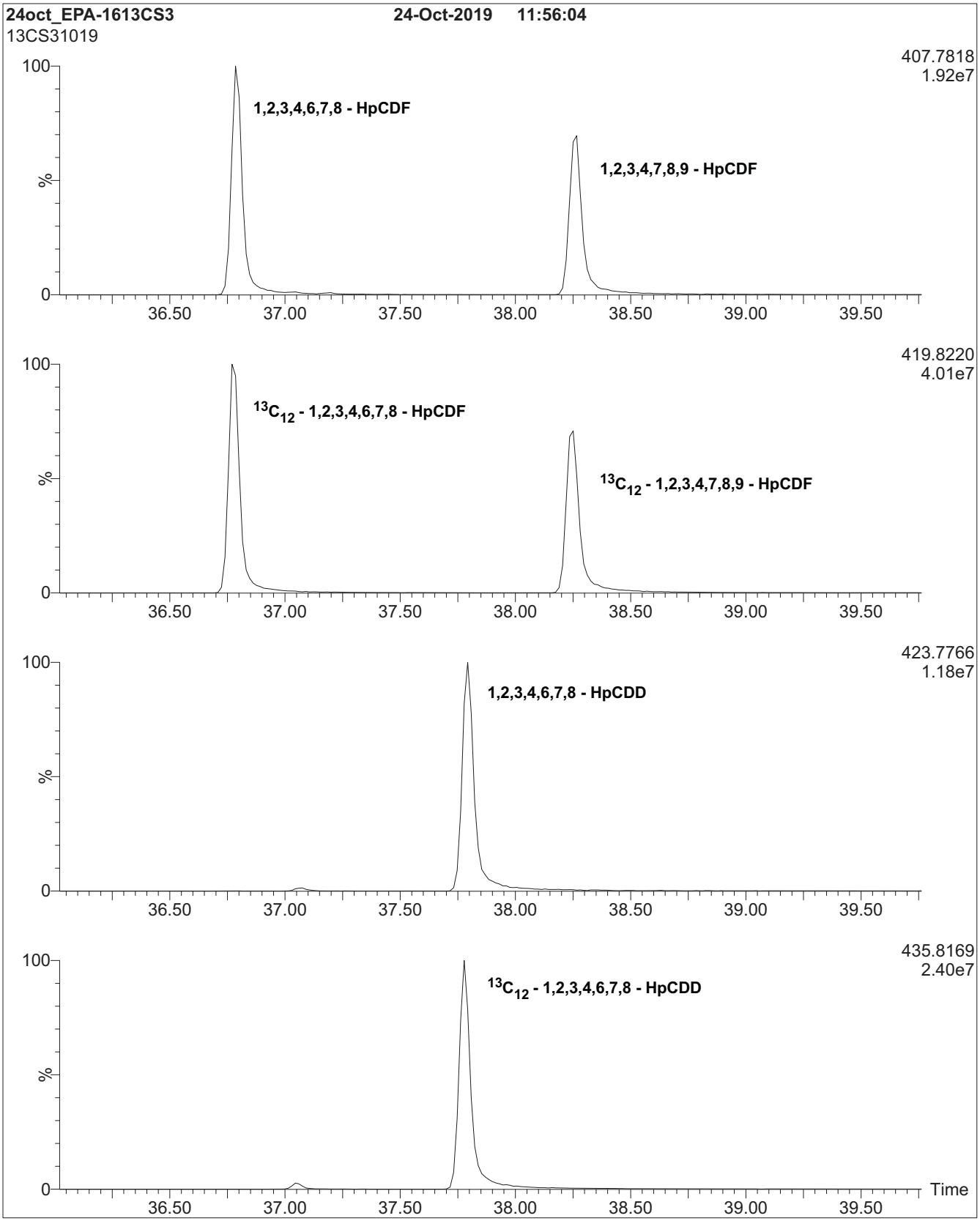
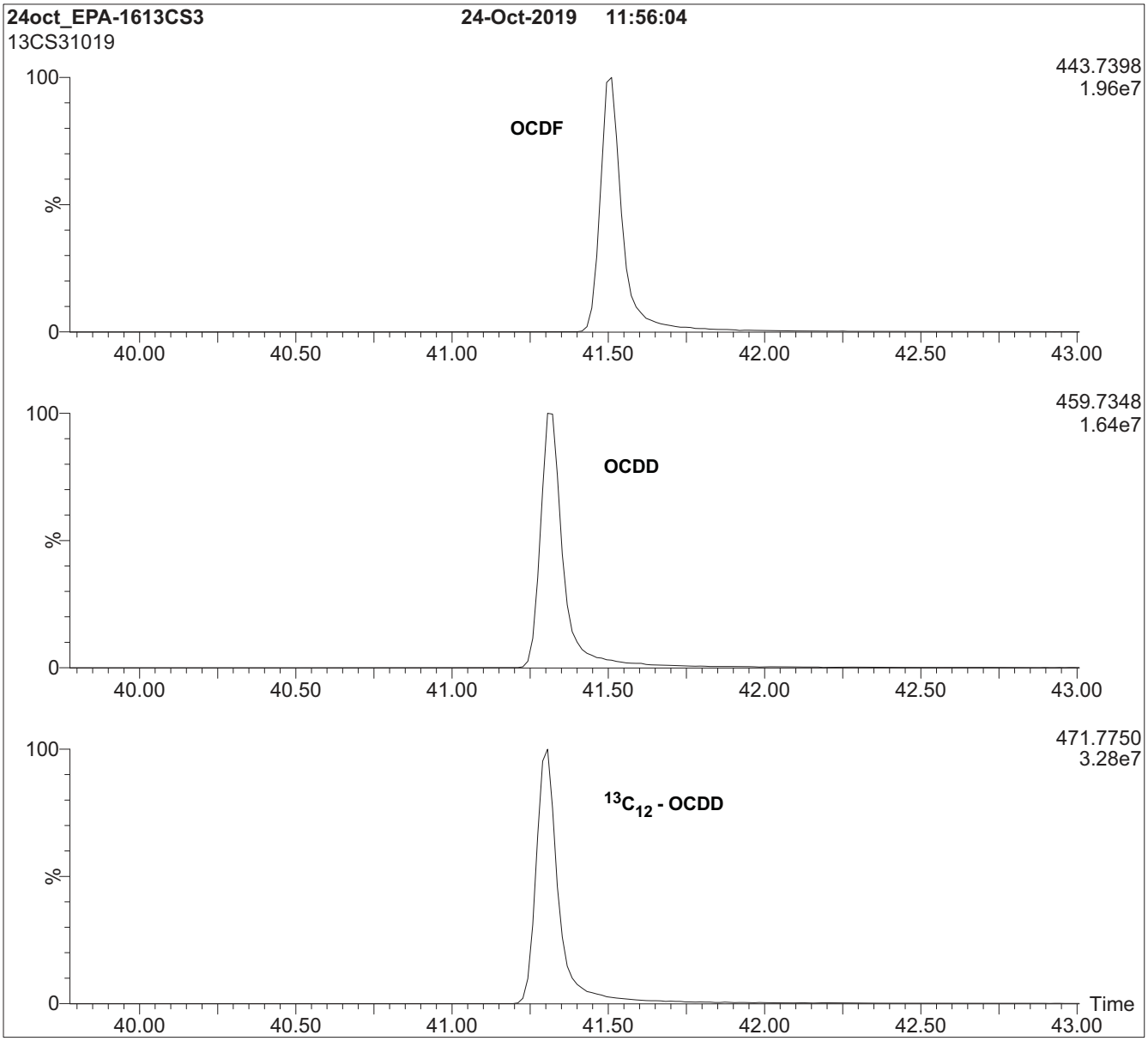


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005457
1613 CS2 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

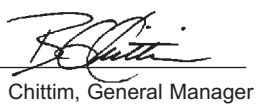
CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:  **Date:** 10/25/2019
(mm/dd/yyyy)

B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

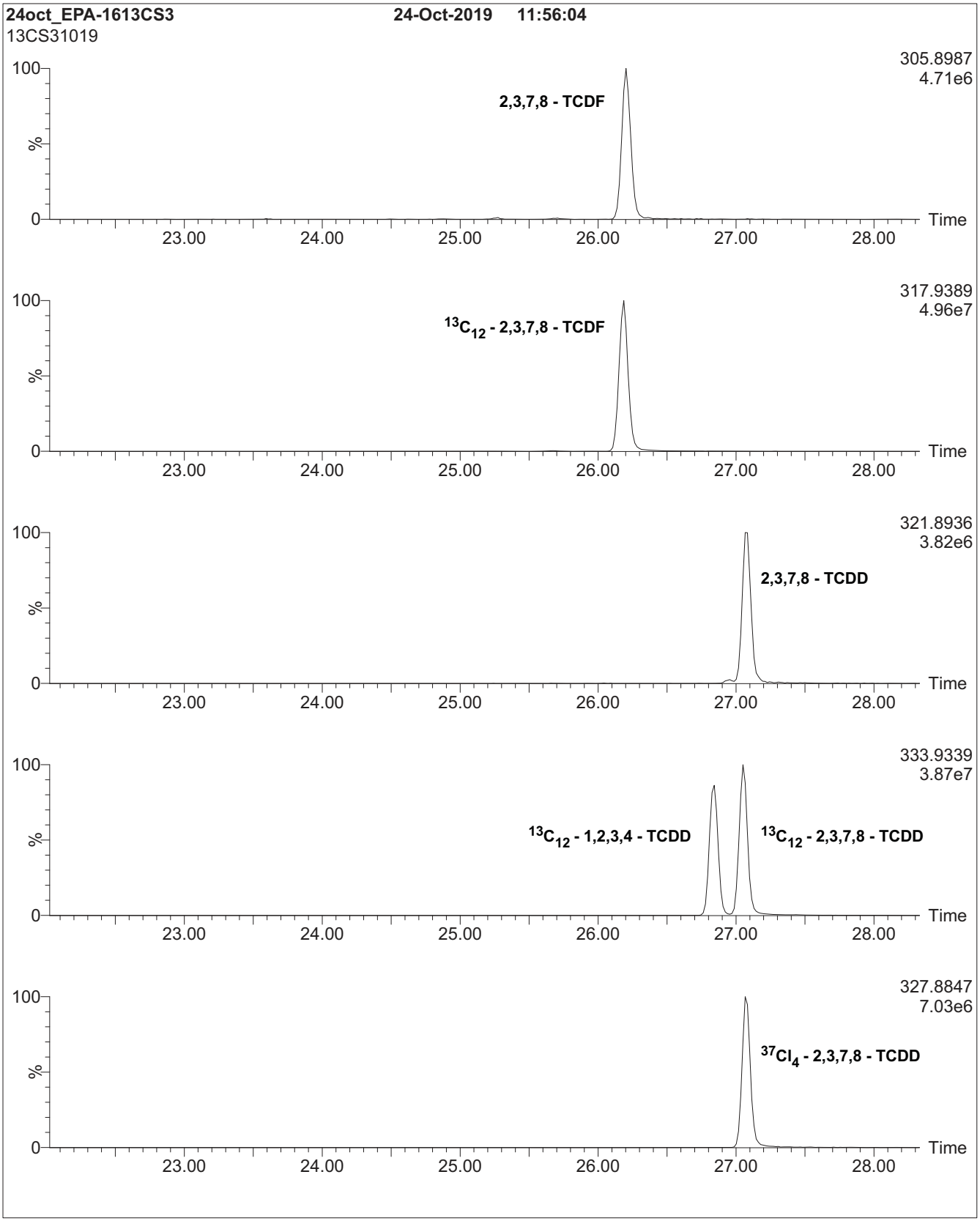


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

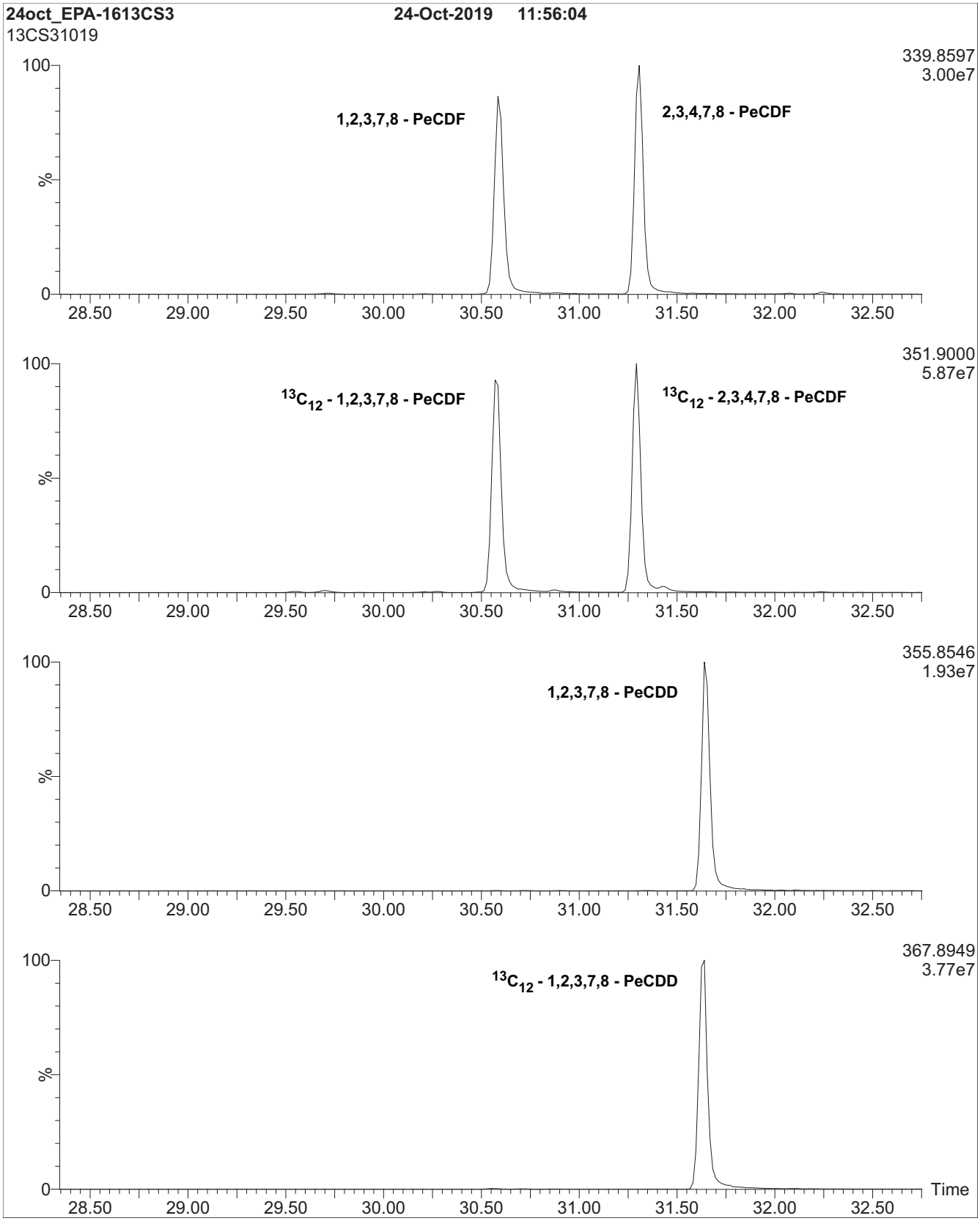


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

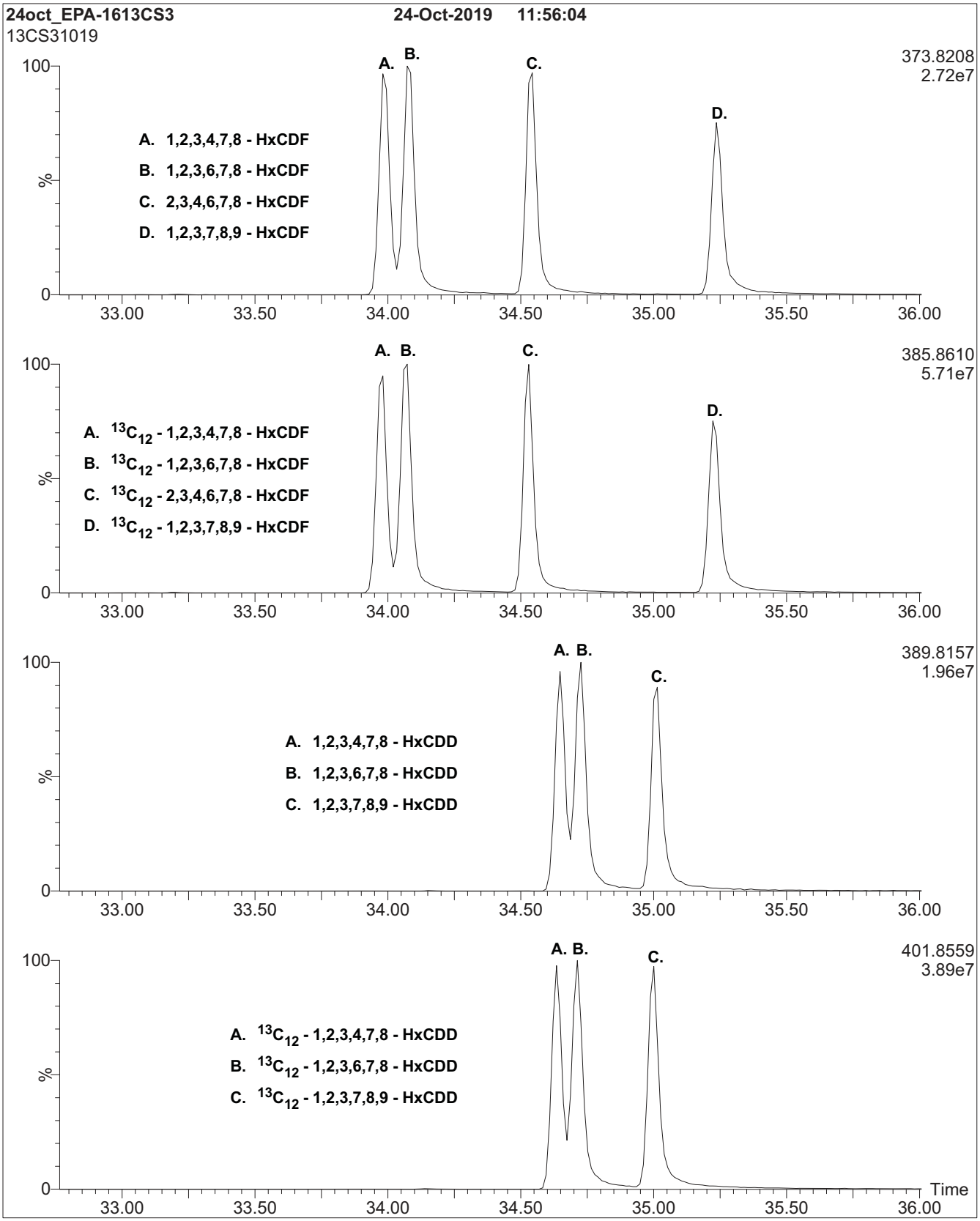


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

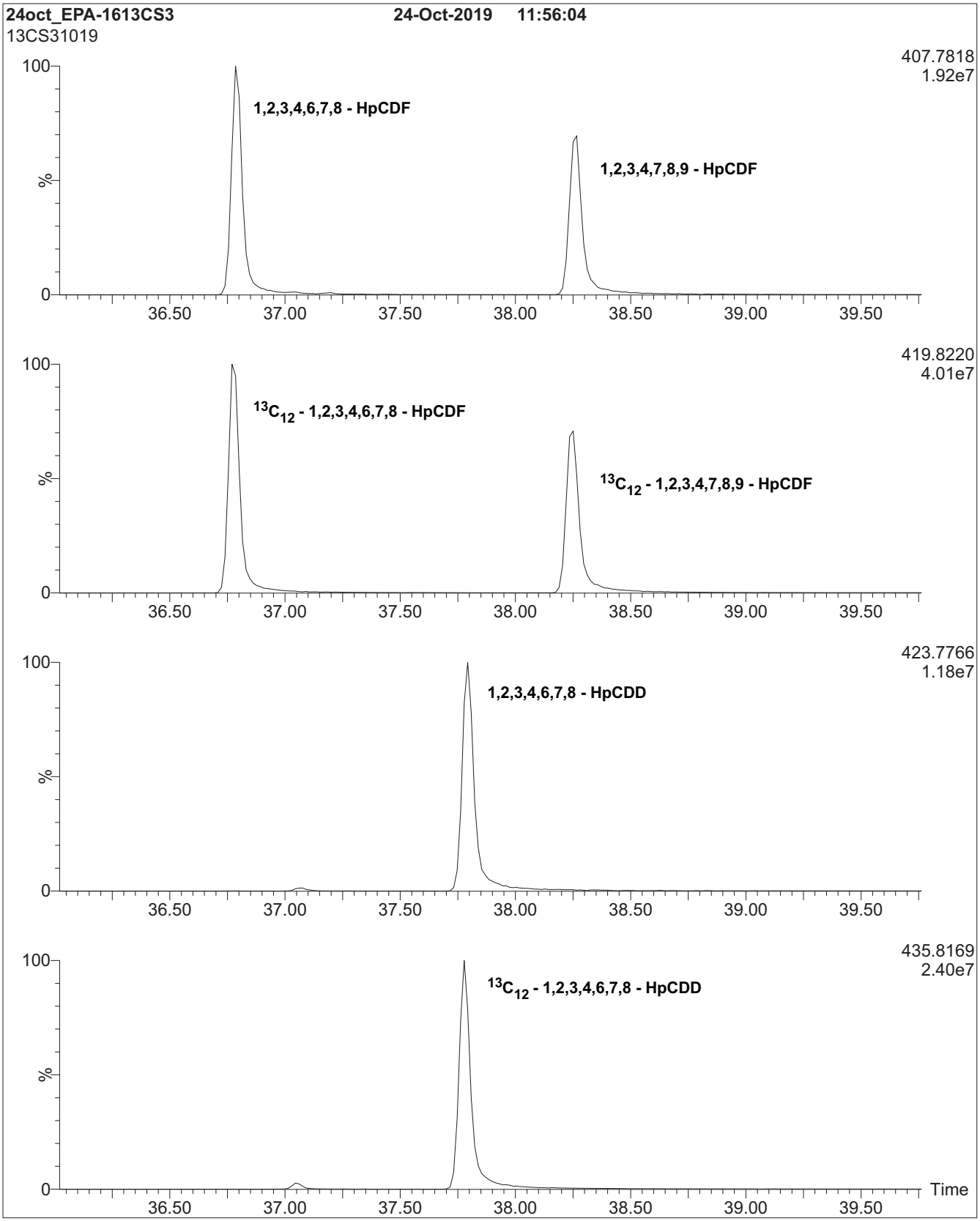
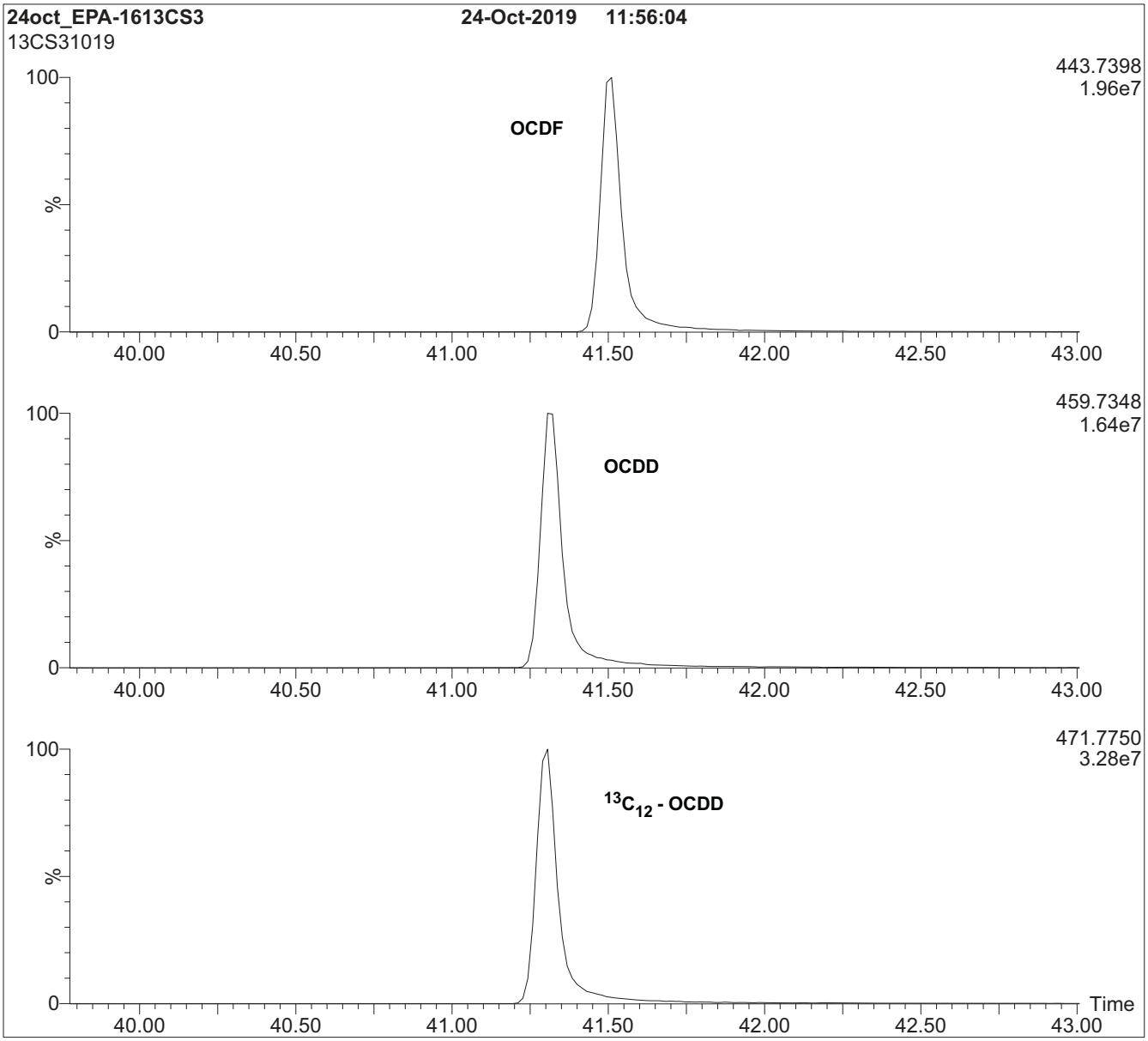


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005458
1613 CS4 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:  **Date:** 10/25/2019
(mm/dd/yyyy)

B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

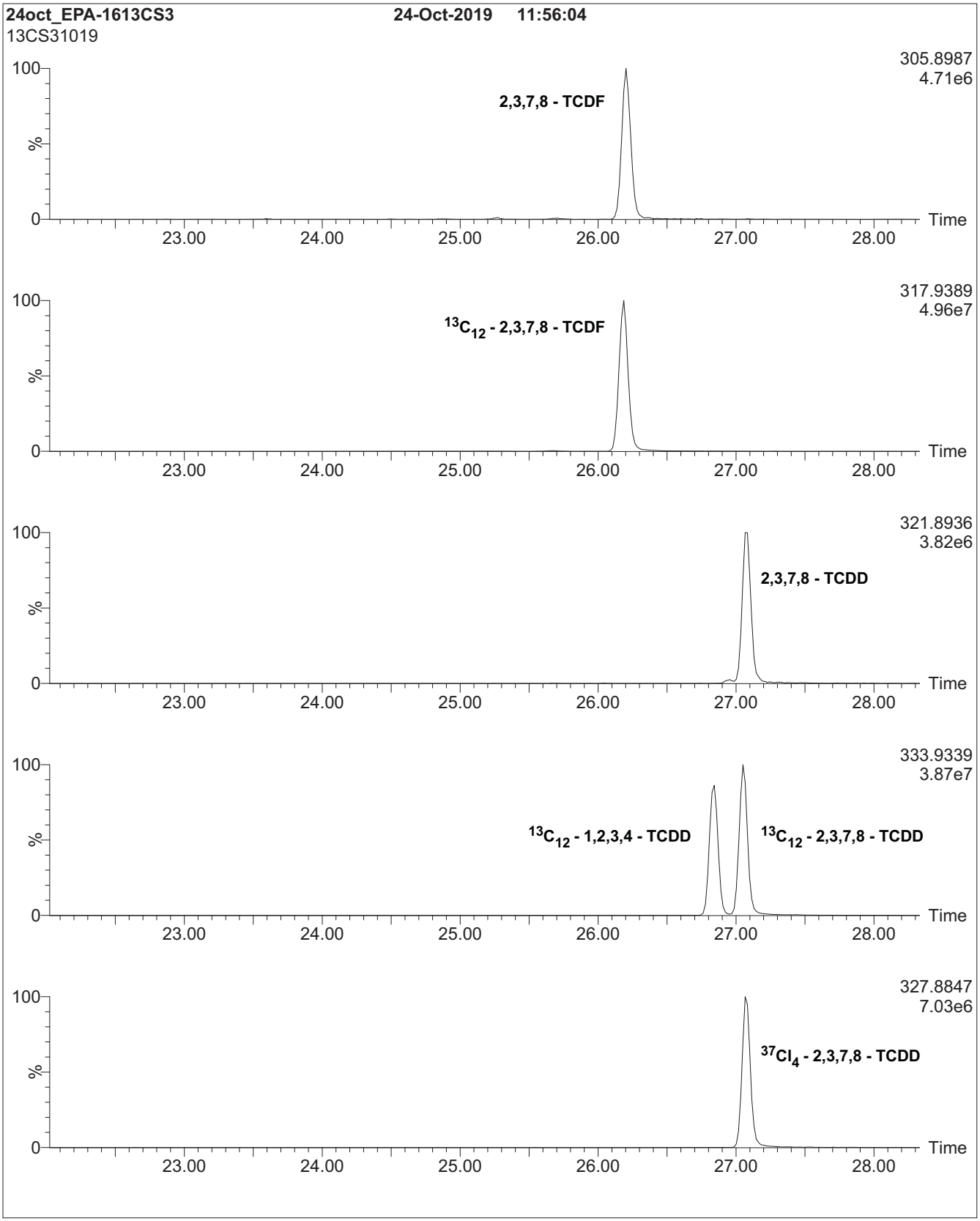


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

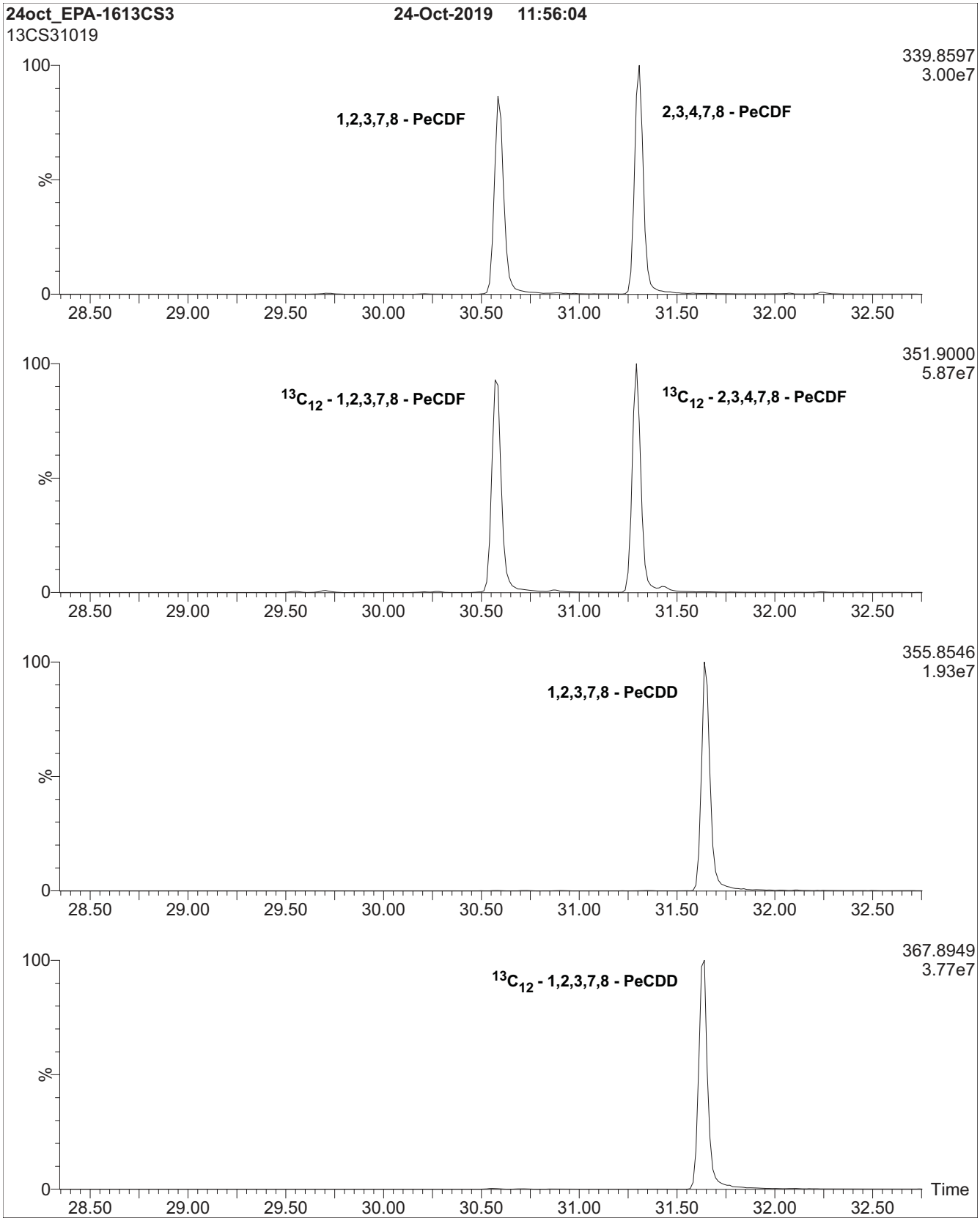


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

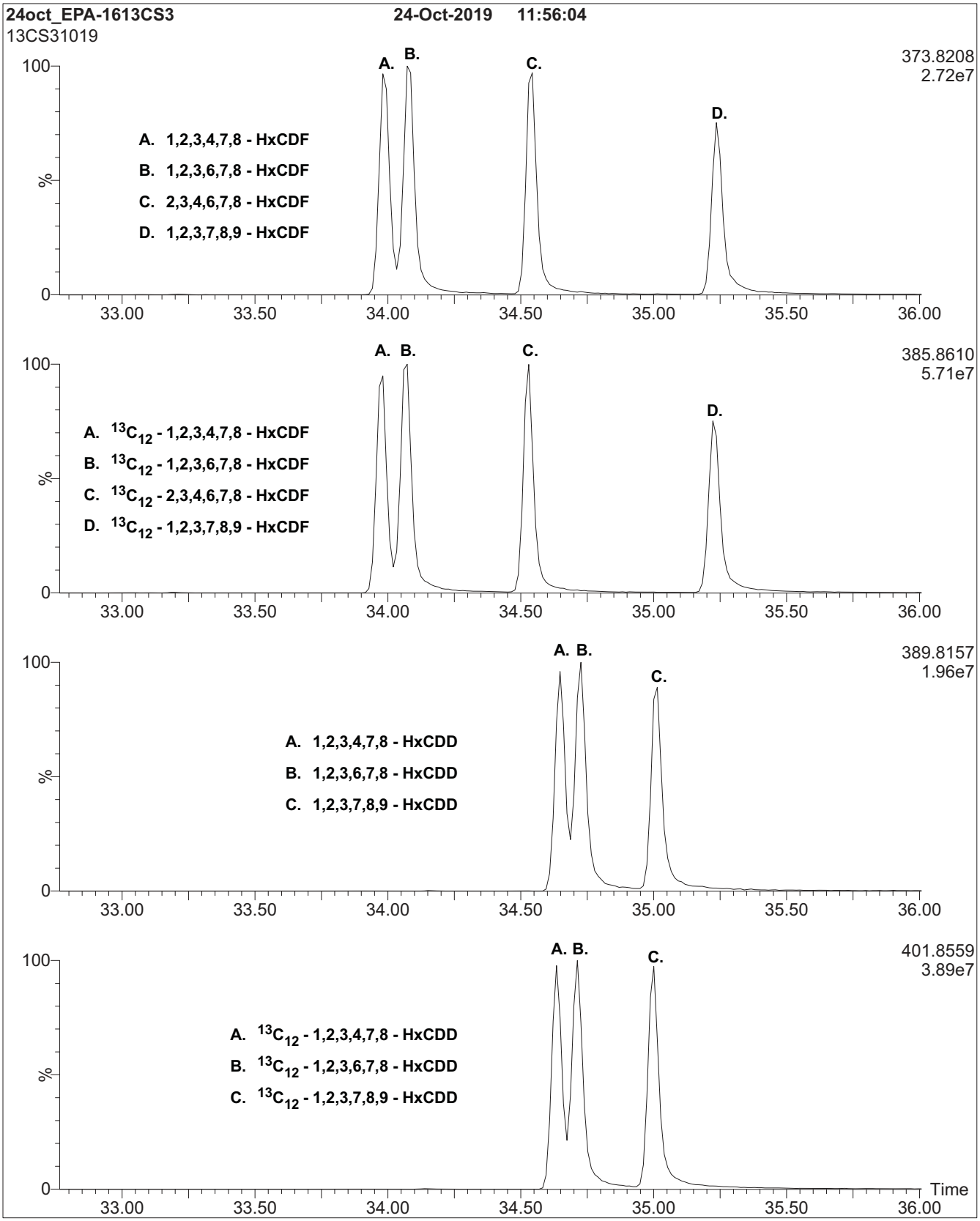


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

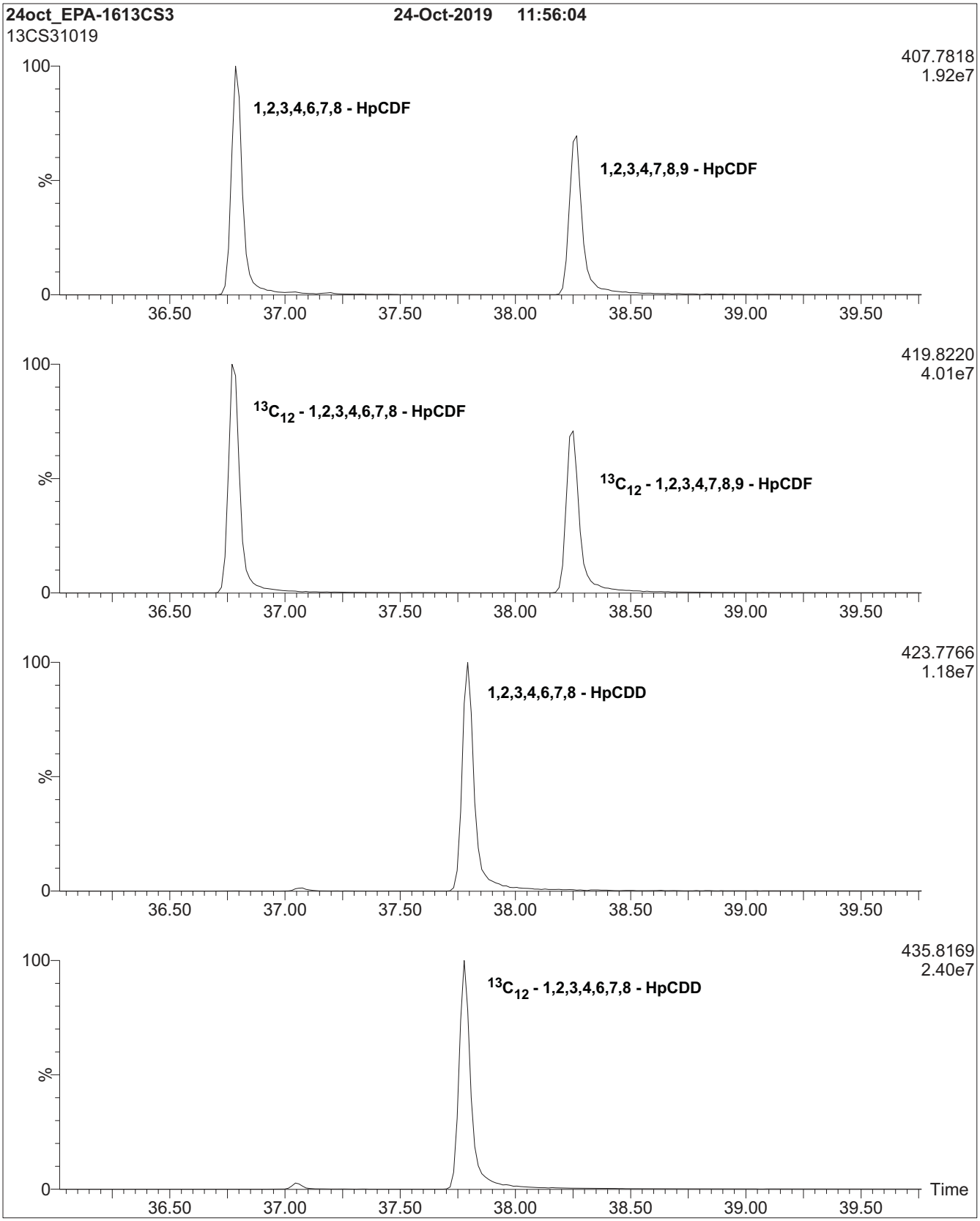
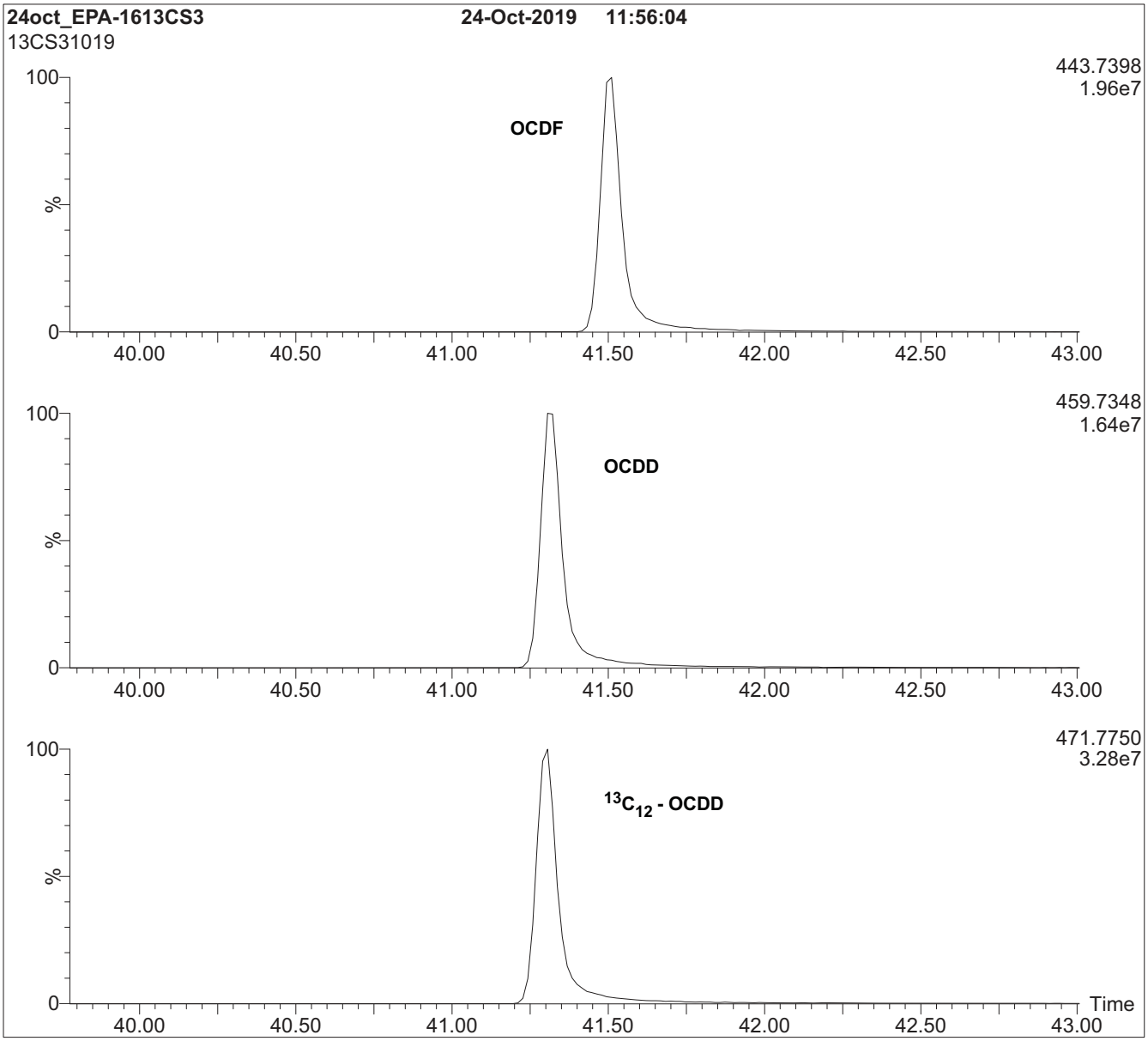


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005459
1613 CS5 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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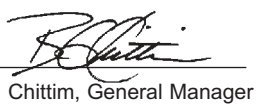
Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:  **Date:** 10/25/2019
(mm/dd/yyyy)

B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

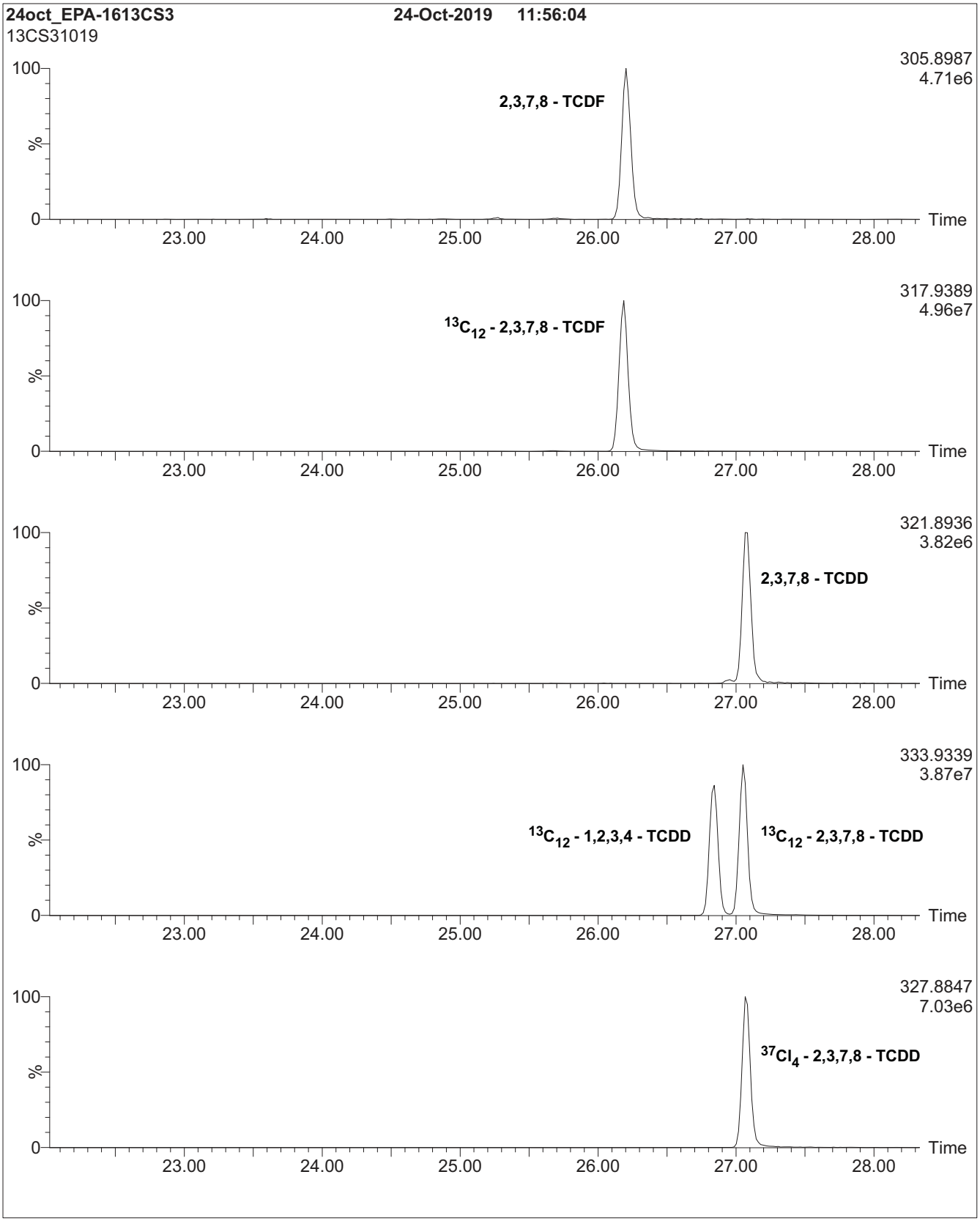


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

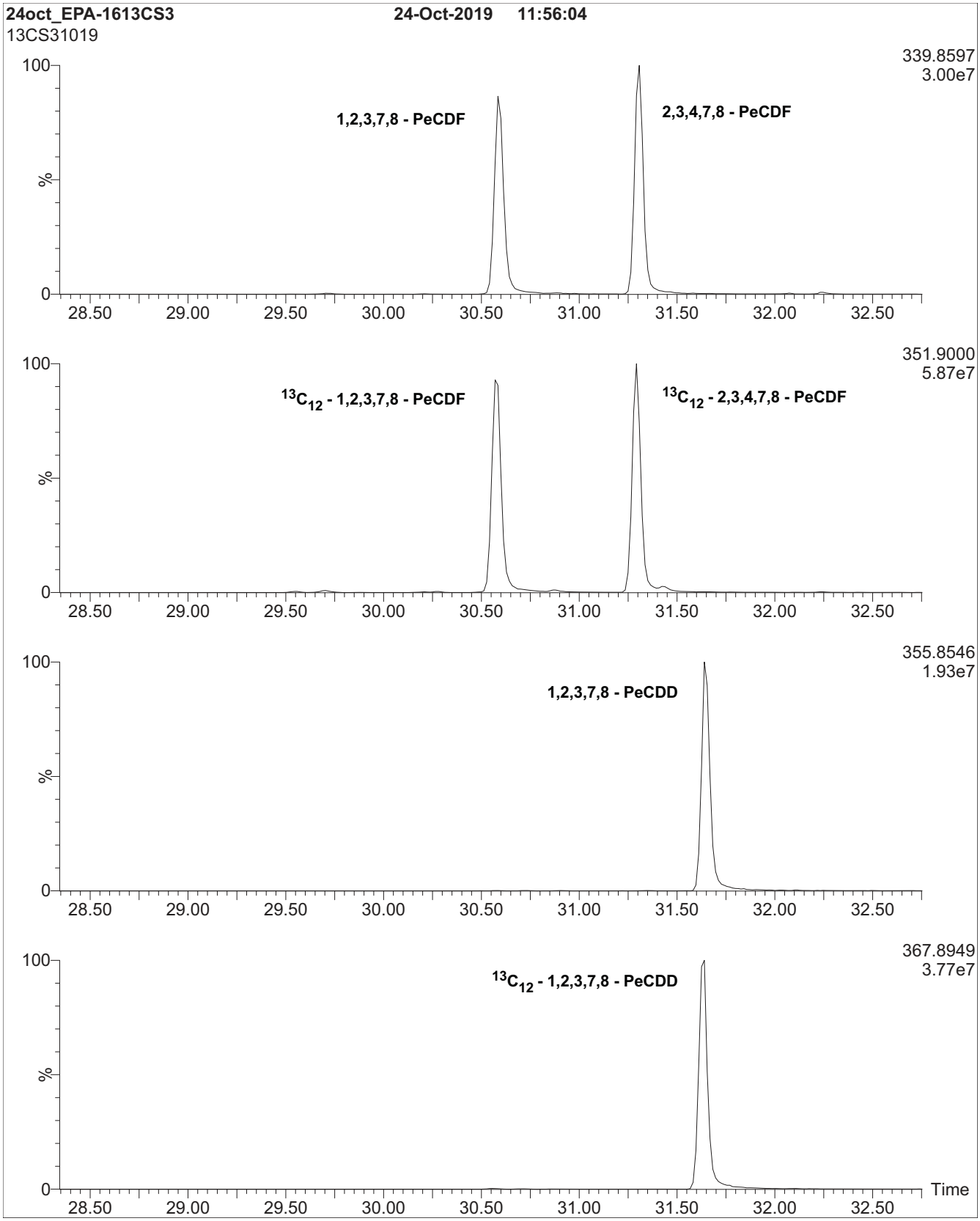


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

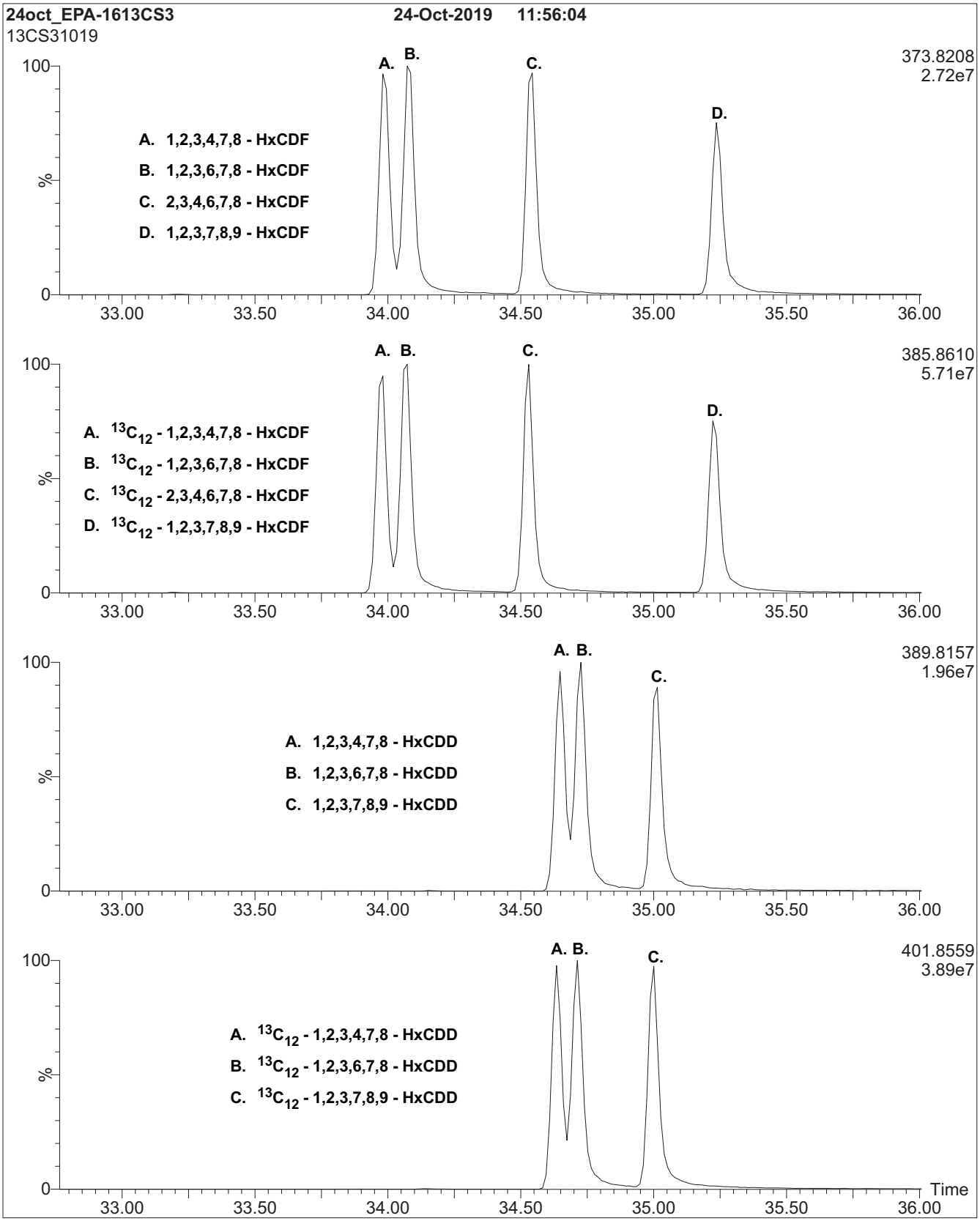


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

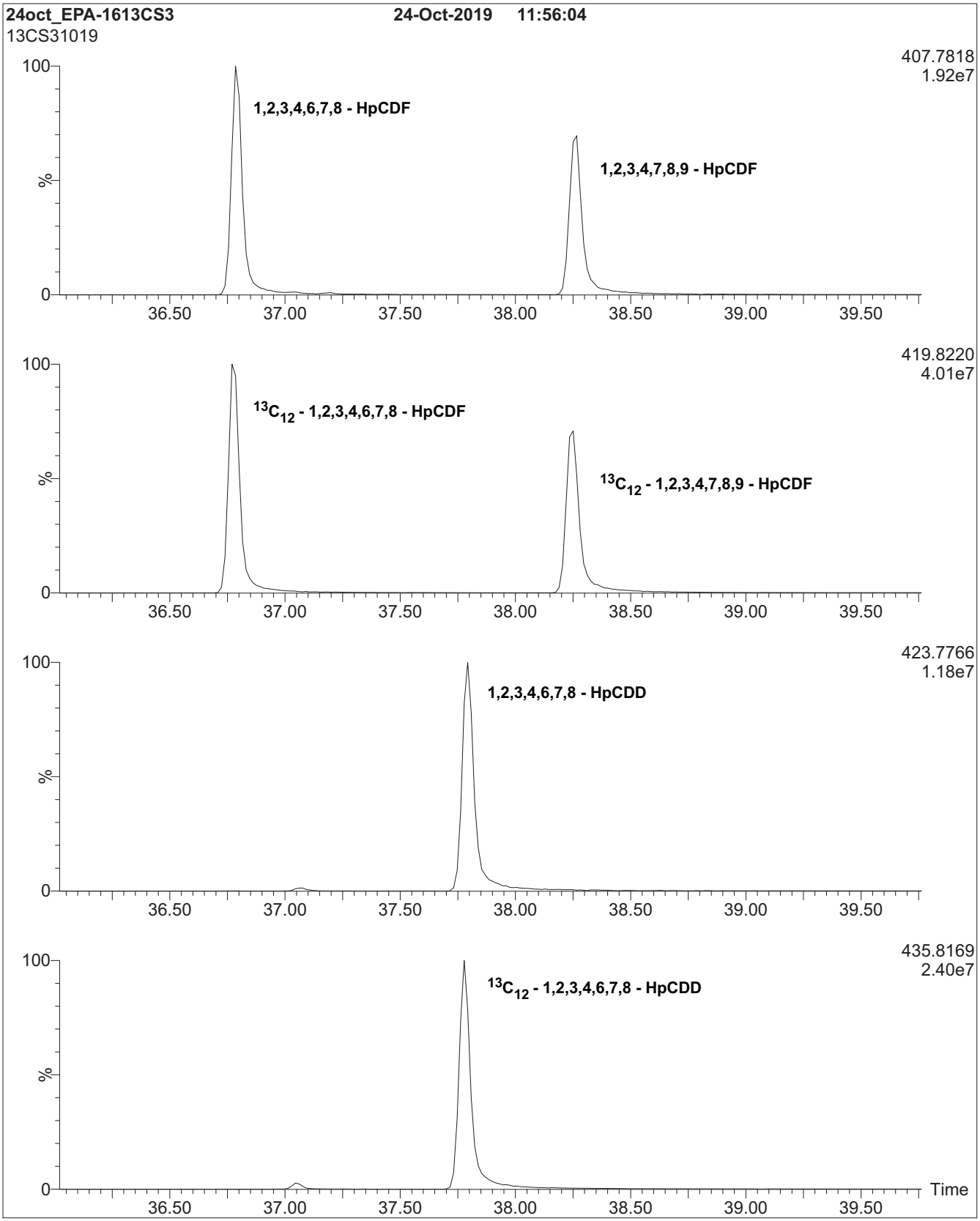
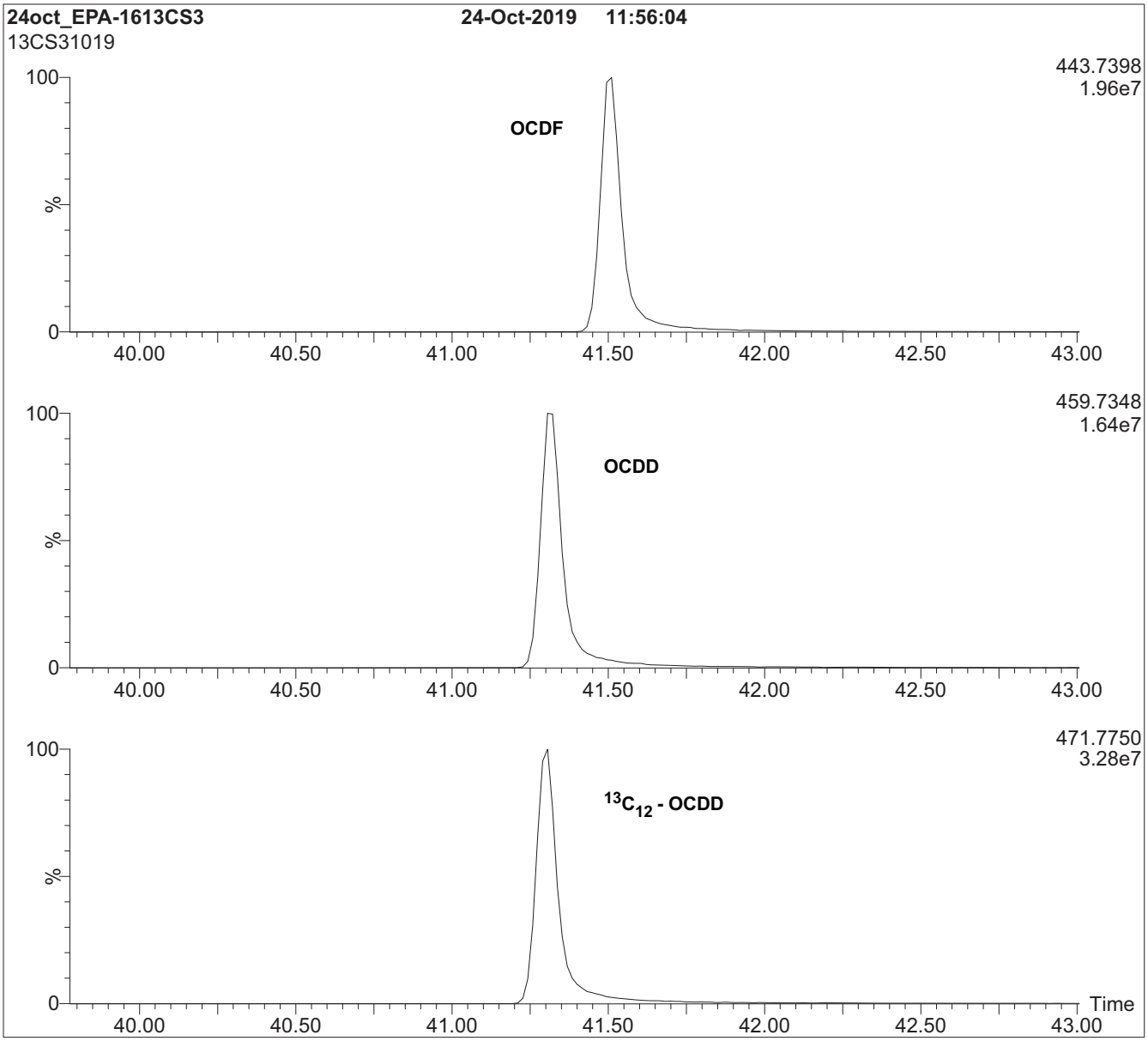


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005460
1613 CSL CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:  **Date:** 10/25/2019
(mm/dd/yyyy)

B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

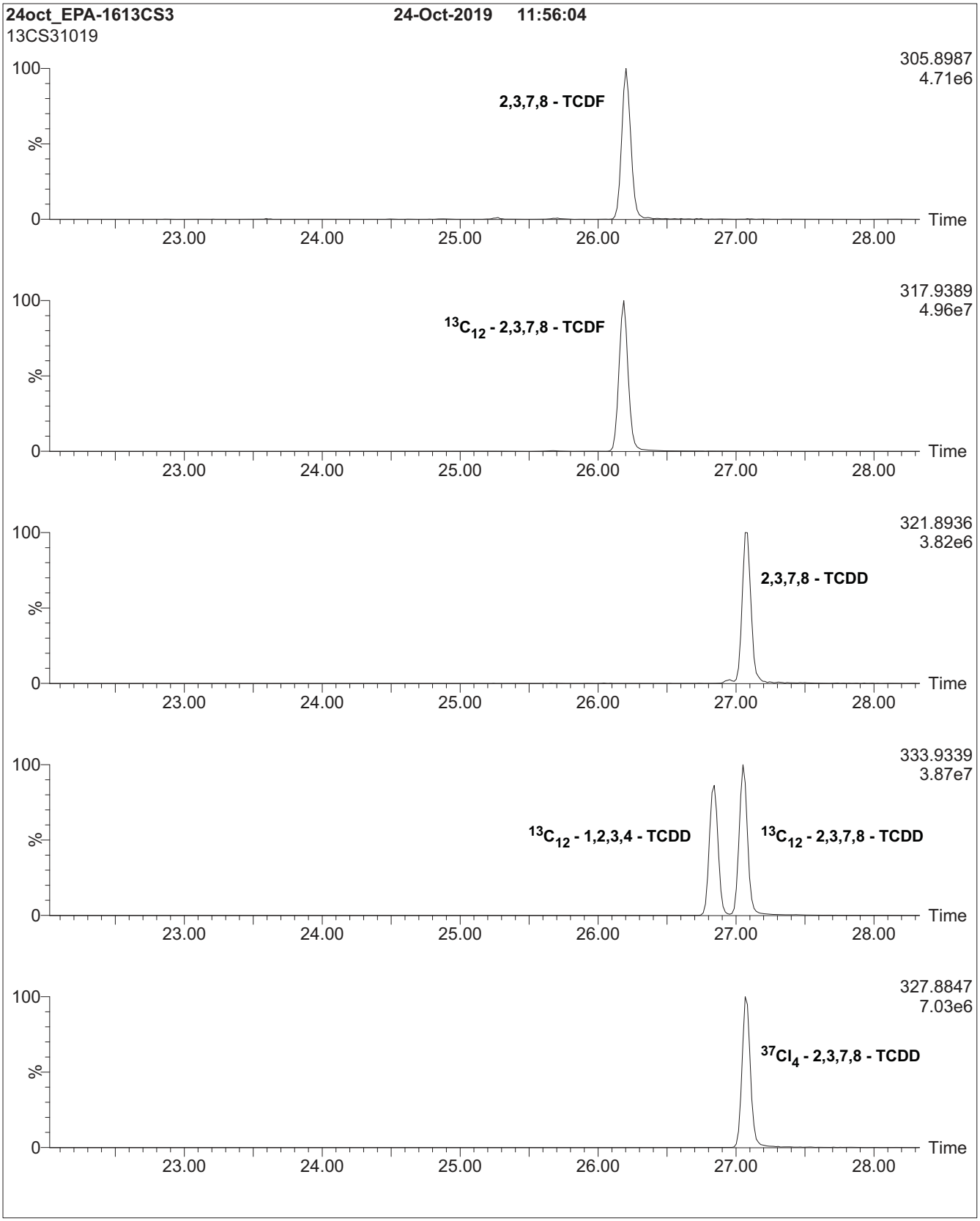


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

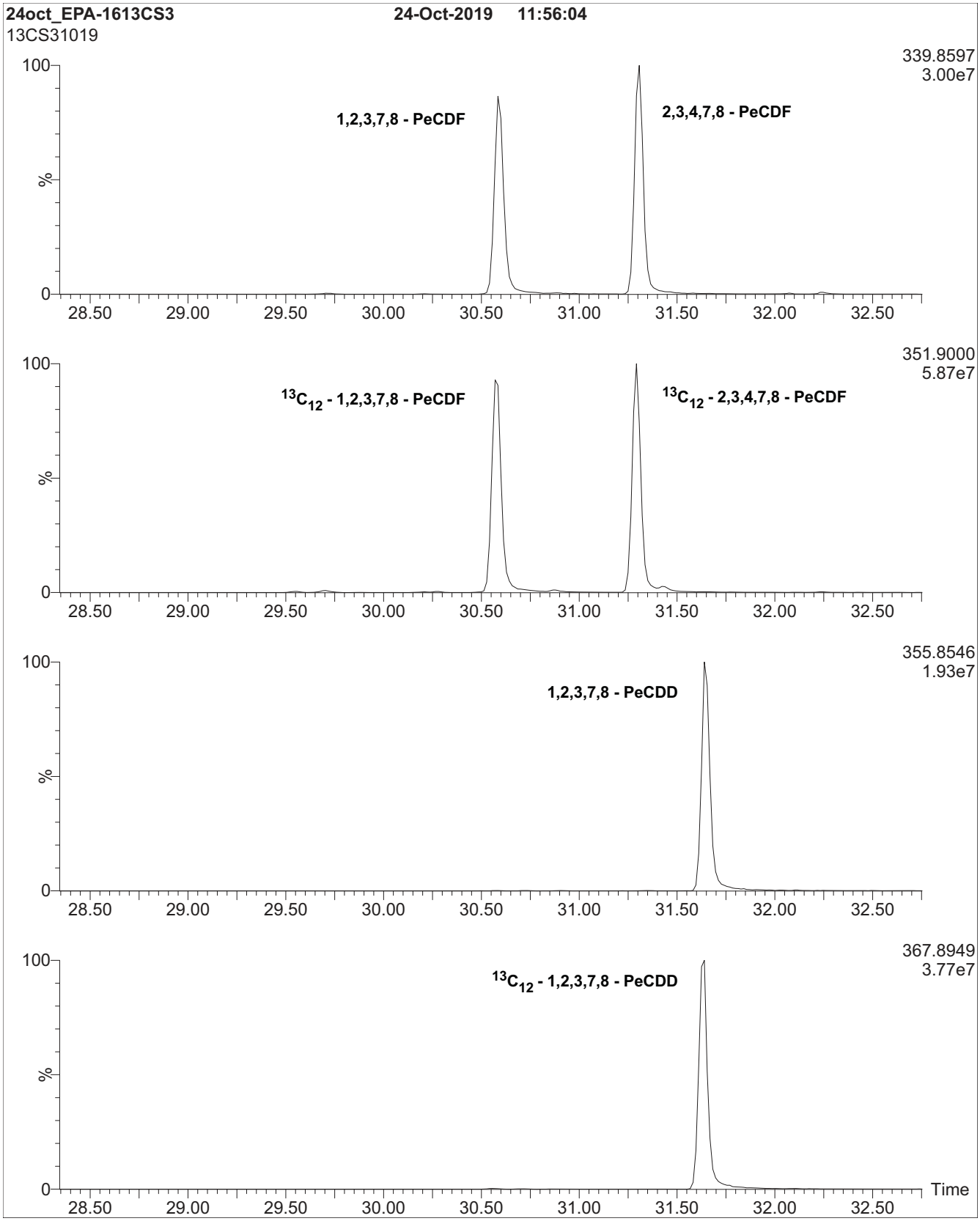


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

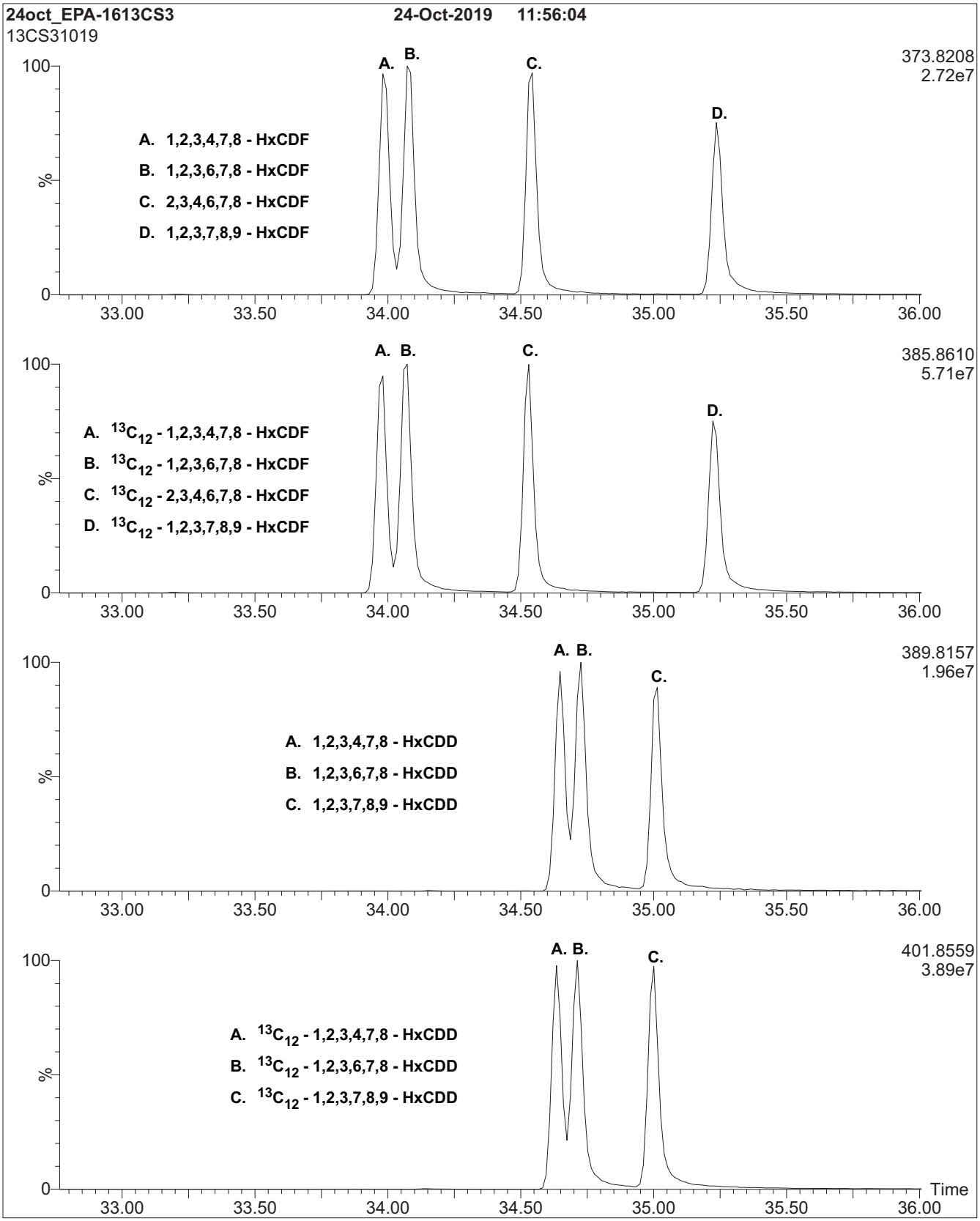


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

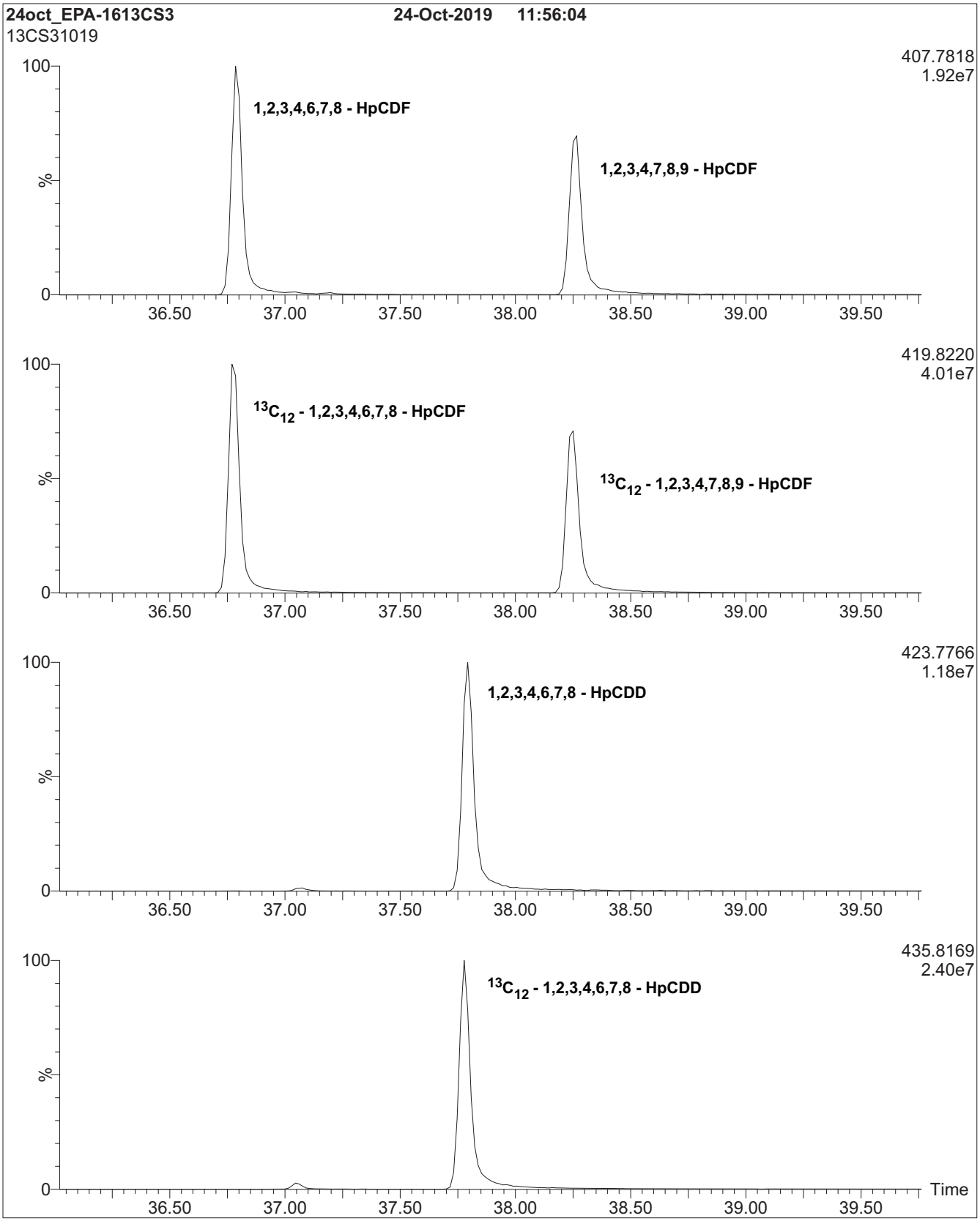
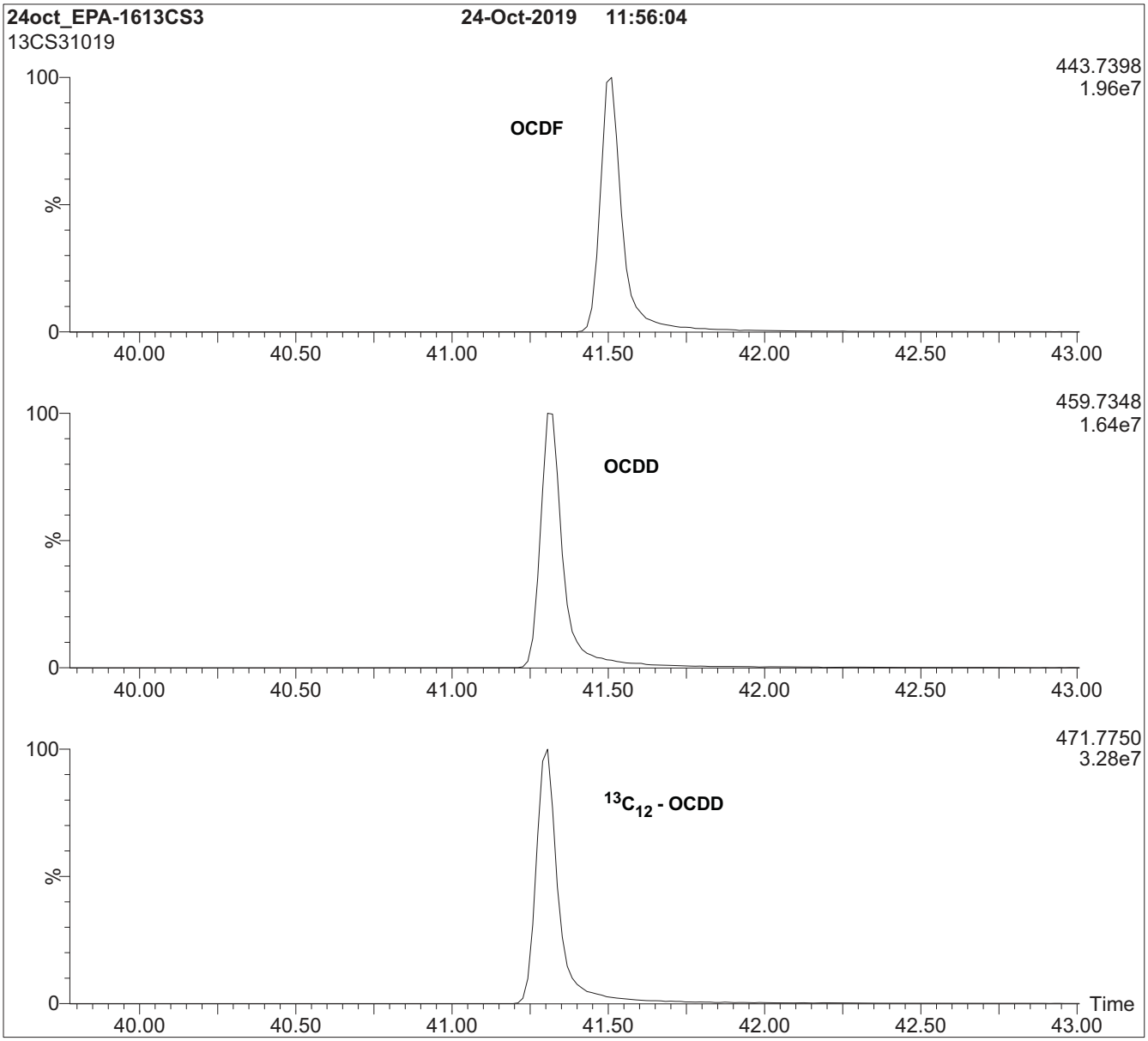


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

EPA-1613PAR

U.S. EPA Method 1613 Native PCDD/PCDF Precision and Recovery Stock Solution

PRODUCT CODE:	EPA-1613PAR
LOT NUMBER:	13PAR1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/25/2021
LAST TESTED: (mm/dd/yyyy)	11/03/2021
EXPIRY DATE: (mm/dd/yyyy)	11/03/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

J013397
Recd. JR
12/20/21

DESCRIPTION:

EPA-1613PAR is a solution/mixture of all the 2,3,7,8-substituted polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613PAR was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual PCDDs and PCDFs all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

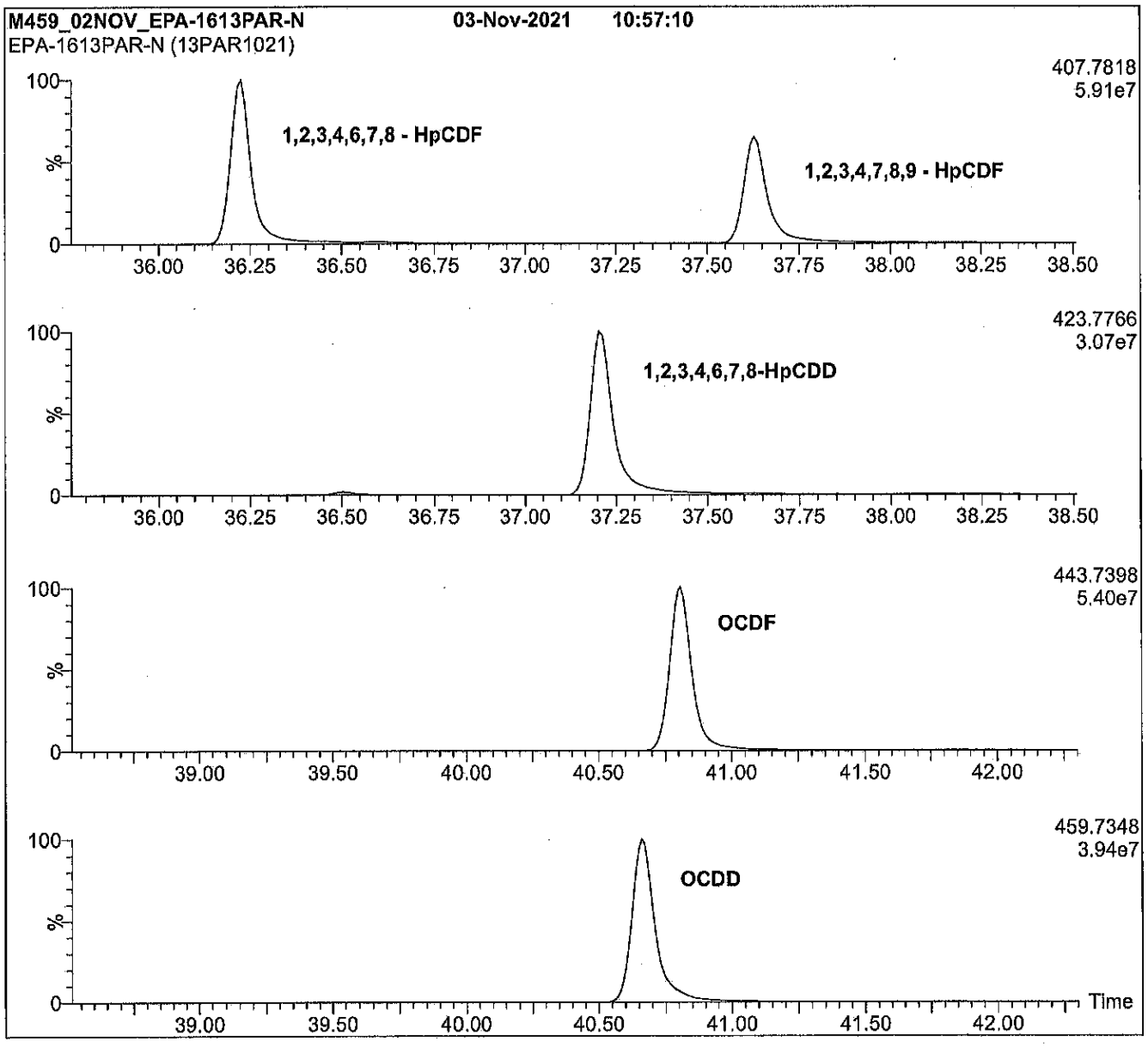
Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

Table A: **EPA-1613PAR; Components and Concentrations (ng/mL, ± 5% in nonane/2.4% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
PCDDs:			
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin	2,3,7,8-TCDD	1746-01-6	40.0
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin	1,2,3,7,8-PeCDD	40321-76-4	200
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,4,7,8-HxCDD	39227-28-6	200
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,6,7,8-HxCDD	57653-85-7	200
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin	1,2,3,7,8,9-HxCDD	19408-74-3	200
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	1,2,3,4,6,7,8-HpCDD	35822-46-9	200
Octachlorodibenzo-*p*-dioxin	OCDD	3268-87-9	400
PCDFs:			
2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	51207-31-9	40.0
1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF	57117-41-6	200
2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF	57117-31-4	200
1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF	70648-26-9	200
1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF	57117-44-9	200
1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF	72918-21-9	200
2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF	60851-34-5	200
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF	67562-39-4	200
1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF	55673-89-7	200
Octachlorodibenzofuran	OCDF	39001-02-0	400

Certified By: _____ **Date:** 11/05/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613PAR

U.S. EPA Method 1613 Native PCDD/PCDF
Precision and Recovery Stock Solution

PRODUCT CODE:	EPA-1613PAR
LOT NUMBER:	13PAR1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/25/2021
LAST TESTED: (mm/dd/yyyy)	11/03/2021
EXPIRY DATE: (mm/dd/yyyy)	11/03/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

J013397
Recd. JR
12/20/21

DESCRIPTION:

EPA-1613PAR is a solution/mixture of all the 2,3,7,8-substituted polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613PAR was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual PCDDs and PCDFs all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, ...x_n$ on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Table A: **EPA-1613PAR; Components and Concentrations (ng/mL, ± 5% in nonane/2.4% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
PCDDs:			
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin	2,3,7,8-TCDD	1746-01-6	40.0
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin	1,2,3,7,8-PeCDD	40321-76-4	200
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,4,7,8-HxCDD	39227-28-6	200
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,6,7,8-HxCDD	57653-85-7	200
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin	1,2,3,7,8,9-HxCDD	19408-74-3	200
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	1,2,3,4,6,7,8-HpCDD	35822-46-9	200
Octachlorodibenzo-*p*-dioxin	OCDD	3268-87-9	400
PCDFs:			
2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	51207-31-9	40.0
1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF	57117-41-6	200
2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF	57117-31-4	200
1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF	70648-26-9	200
1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF	57117-44-9	200
1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF	72918-21-9	200
2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF	60851-34-5	200
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF	67562-39-4	200
1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF	55673-89-7	200
Octachlorodibenzofuran	OCDF	39001-02-0	400

Certified By: _____ **Date:** 11/05/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**

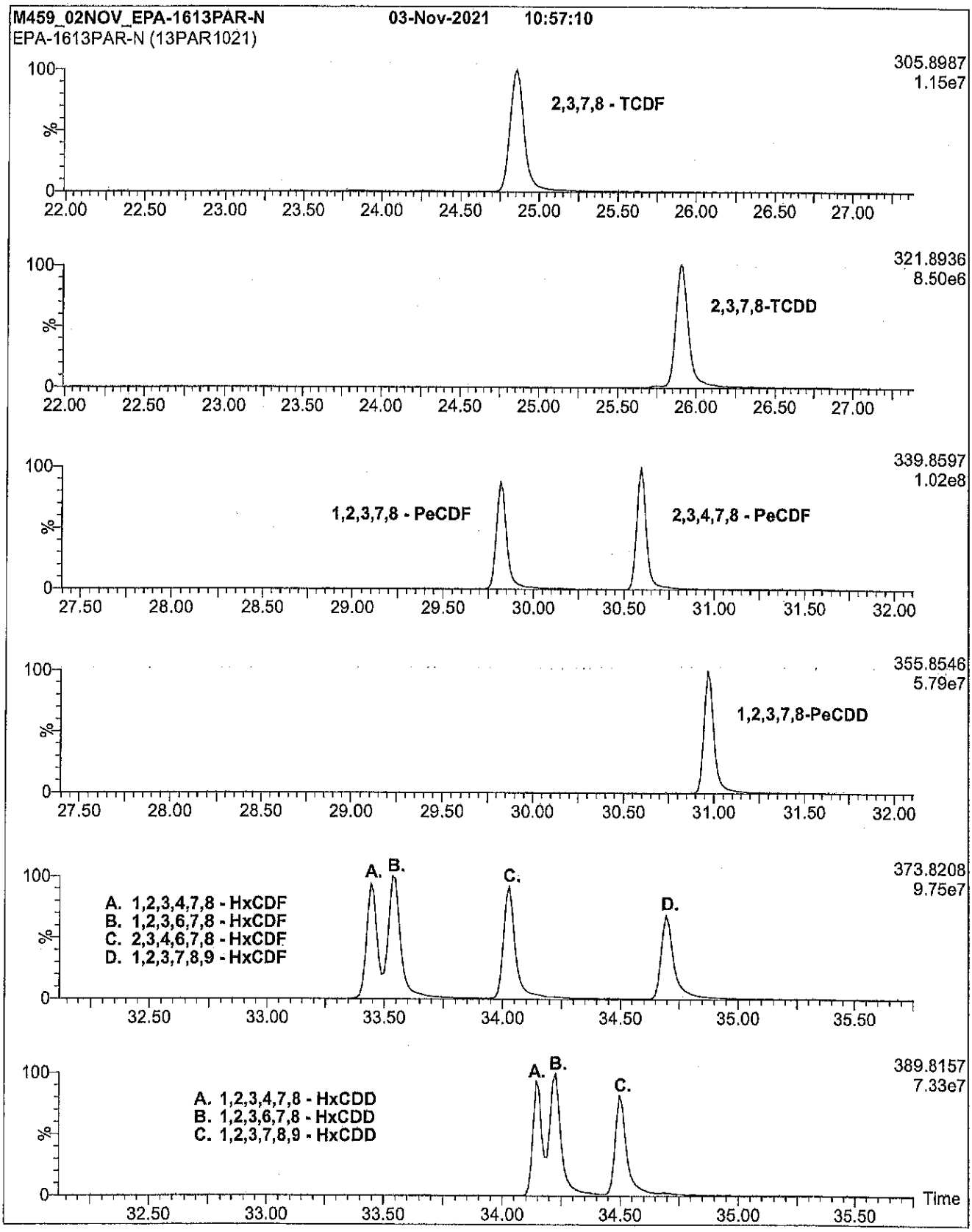
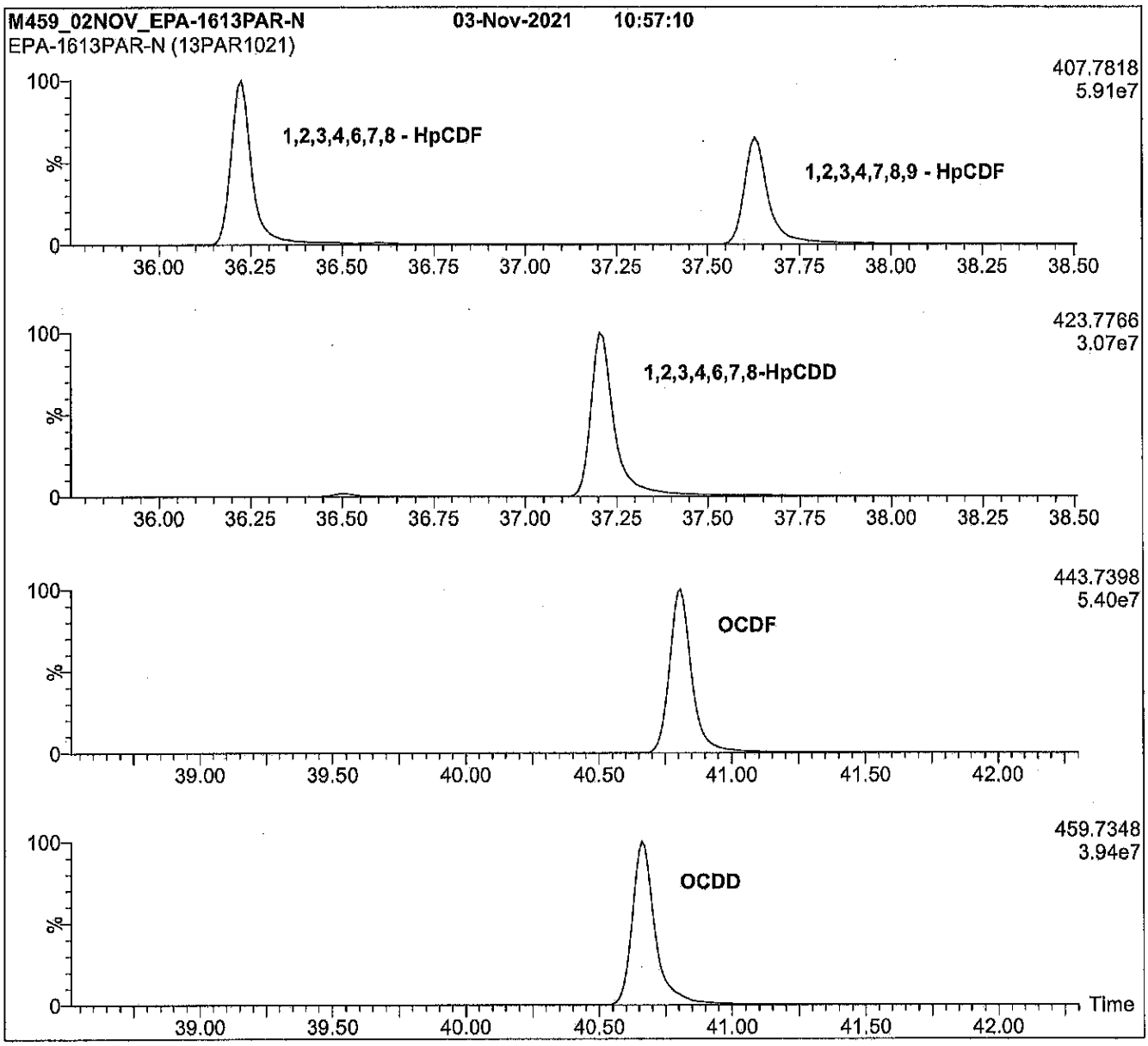


Figure 1: **EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CSS

U.S. EPA Method 1613 Cleanup Standard Spiking Solution

PRODUCT CODE:	EPA-1613CSS
LOT NUMBER:	13CSS1021
SOLVENT(S):	Nonane
DATE PREPARED: (mm/dd/yyyy)	10/29/2021
LAST TESTED: (mm/dd/yyyy)	10/31/2021
EXPIRY DATE: (mm/dd/yyyy)	10/31/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION: K003104

EPA-1613CSS contains 2,3,7,8-($^{37}Cl_4$)tetrachlorodibenzo-*p*-dioxin at the concentration given in Table A.

EPA-1613CSS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

2,3,7,8-($^{37}Cl_4$)Tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

Table A: **EPA-1613CSS; Components and Concentrations (ng/mL, ± 5% in nonane)**

Compound	Acronym	CAS #	Concentration (ng/mL)
2,3,7,8-($^{37}Cl_4$)Tetrachlorodibenzo-*p*-dioxin	$^{37}Cl_4$-2,3,7,8-TCDD	85508-50-5	40.0

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Certified By: _____ **Date:** 11/05/2021 (mm/dd/yyyy)
B.G. Chittim, General Manager

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INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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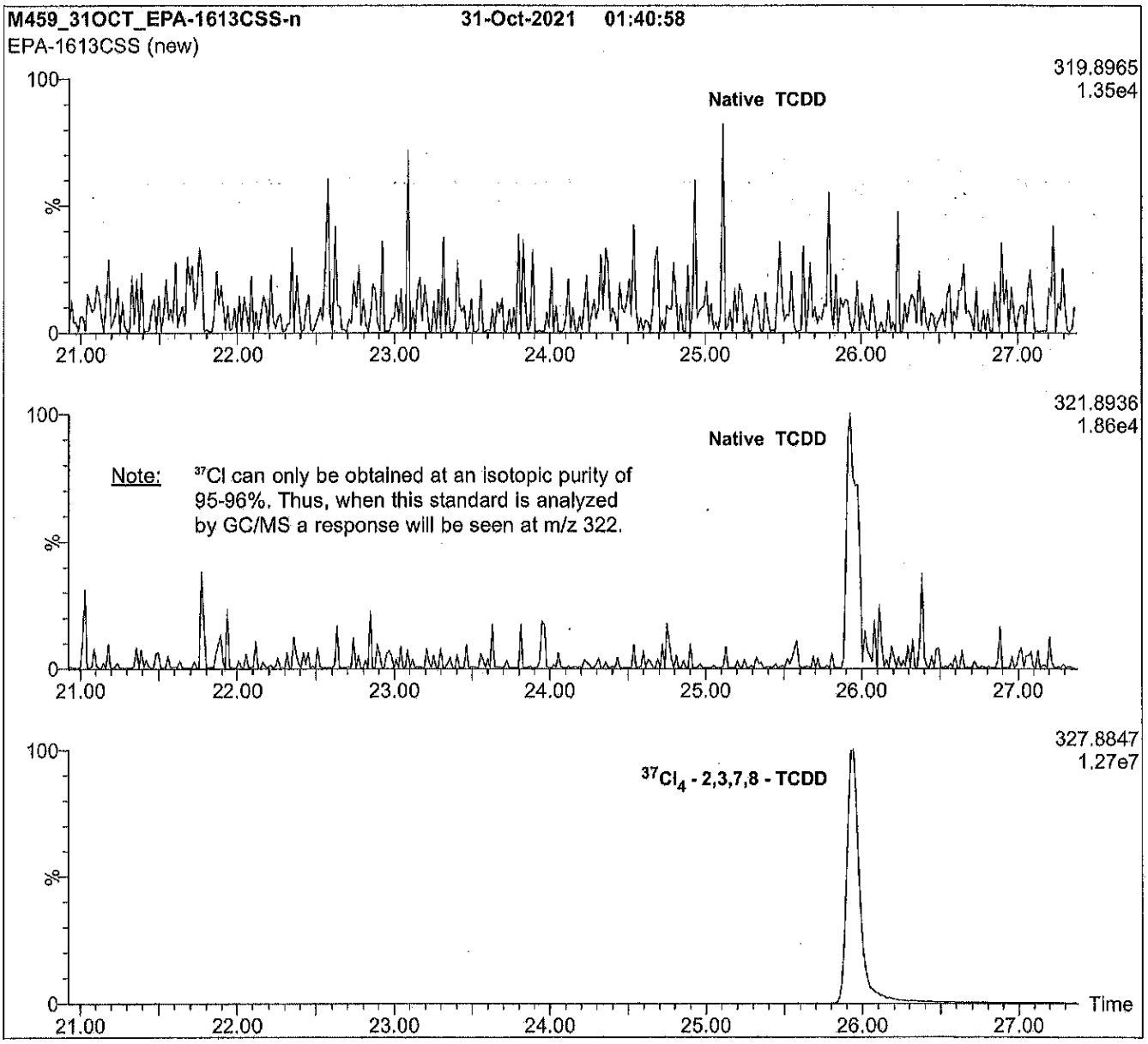
Figure 1: **EPA-1613CSS; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613LCS

U.S. EPA Method 1613
Labelled Compound Stock Solution

PRODUCT CODE:	EPA-1613LCS
LOT NUMBER:	13LCS1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/29/2021
LAST TESTED: (mm/dd/yyyy)	10/31/2021
EXPIRY DATE: (mm/dd/yyyy)	10/31/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION: K3105

EPA-1613LCS is a solution/mixture of mass-labelled ($^{13}C_{12}$) polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613LCS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Table A: **EPA-1613LCS; Components and Concentrations (ng/mL, ± 5% in nonane/3.2% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
Mass-Labelled PCDDs:			
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-OCDD	114423-97-1	200
Mass-Labelled PCDFs:			
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	109719-94-0	100

Certified By: _____ **Date:** 11/05/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

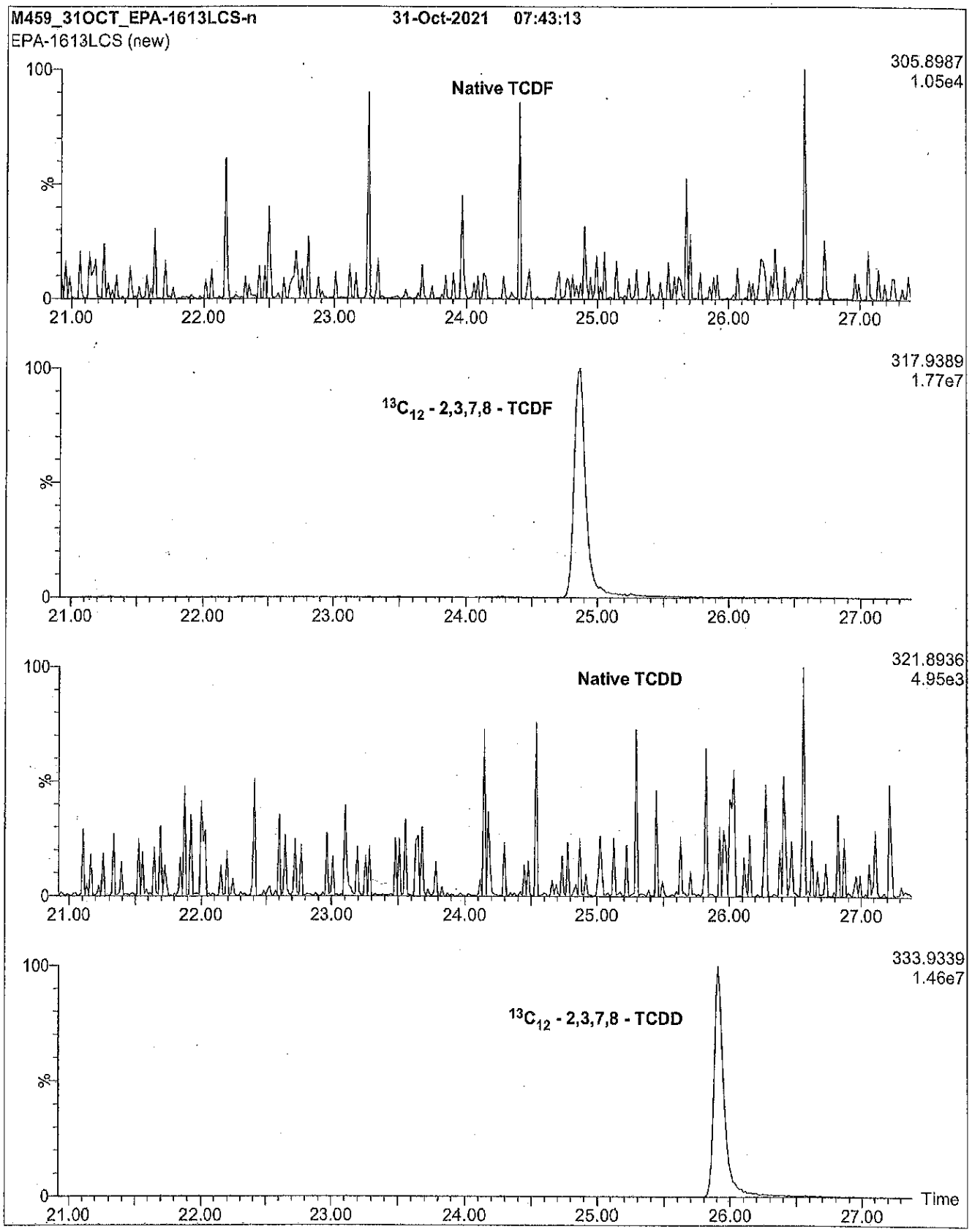


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

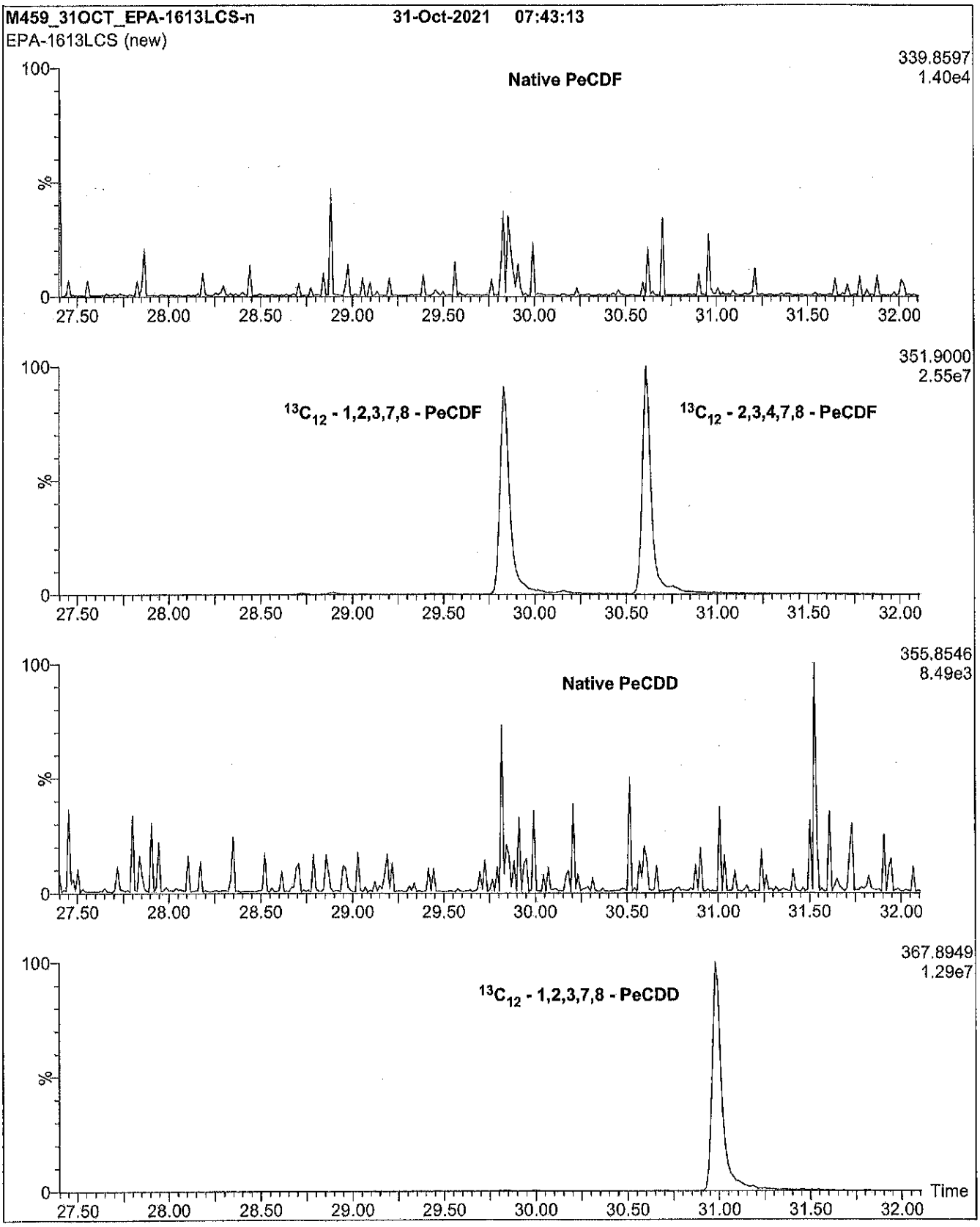


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

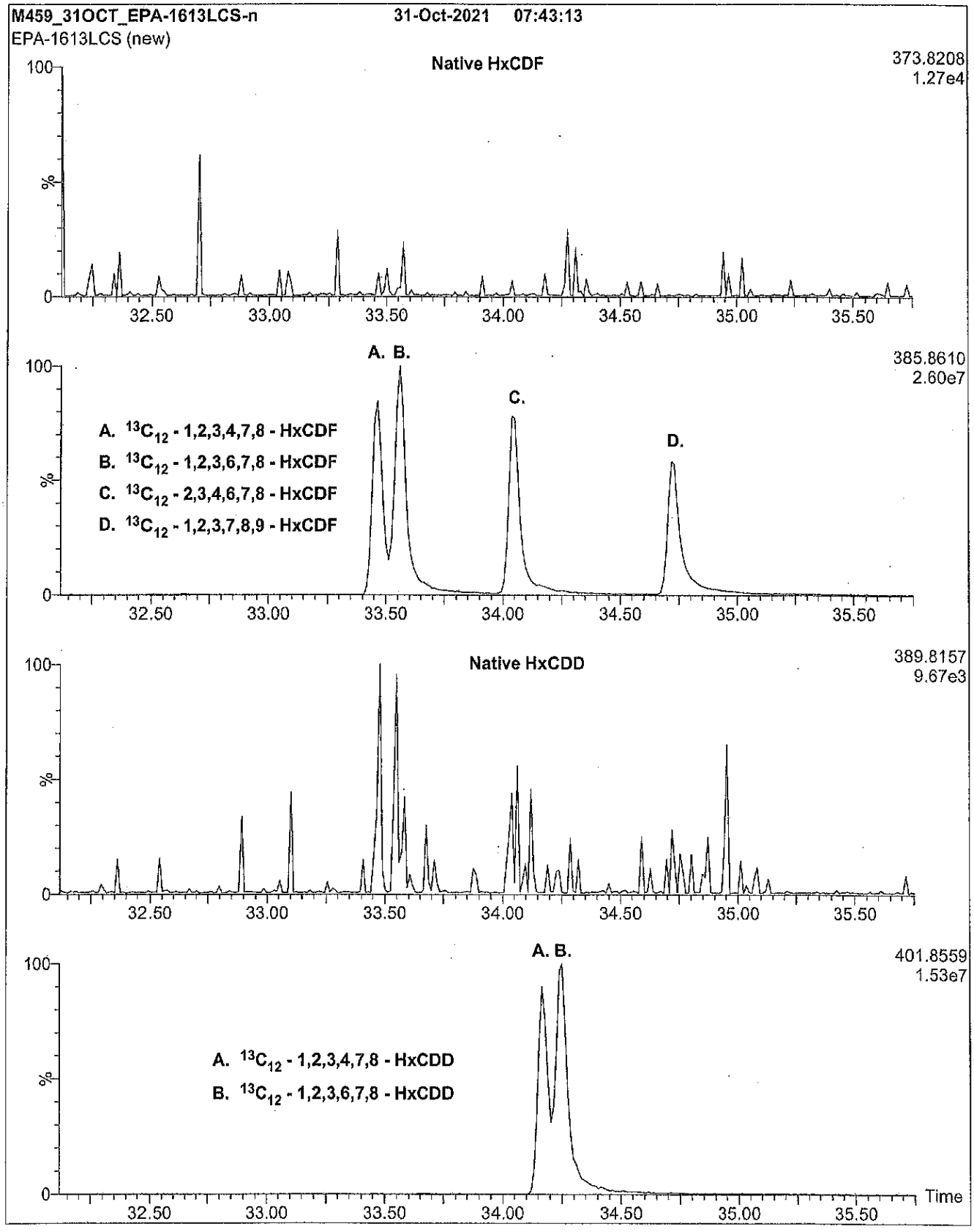


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

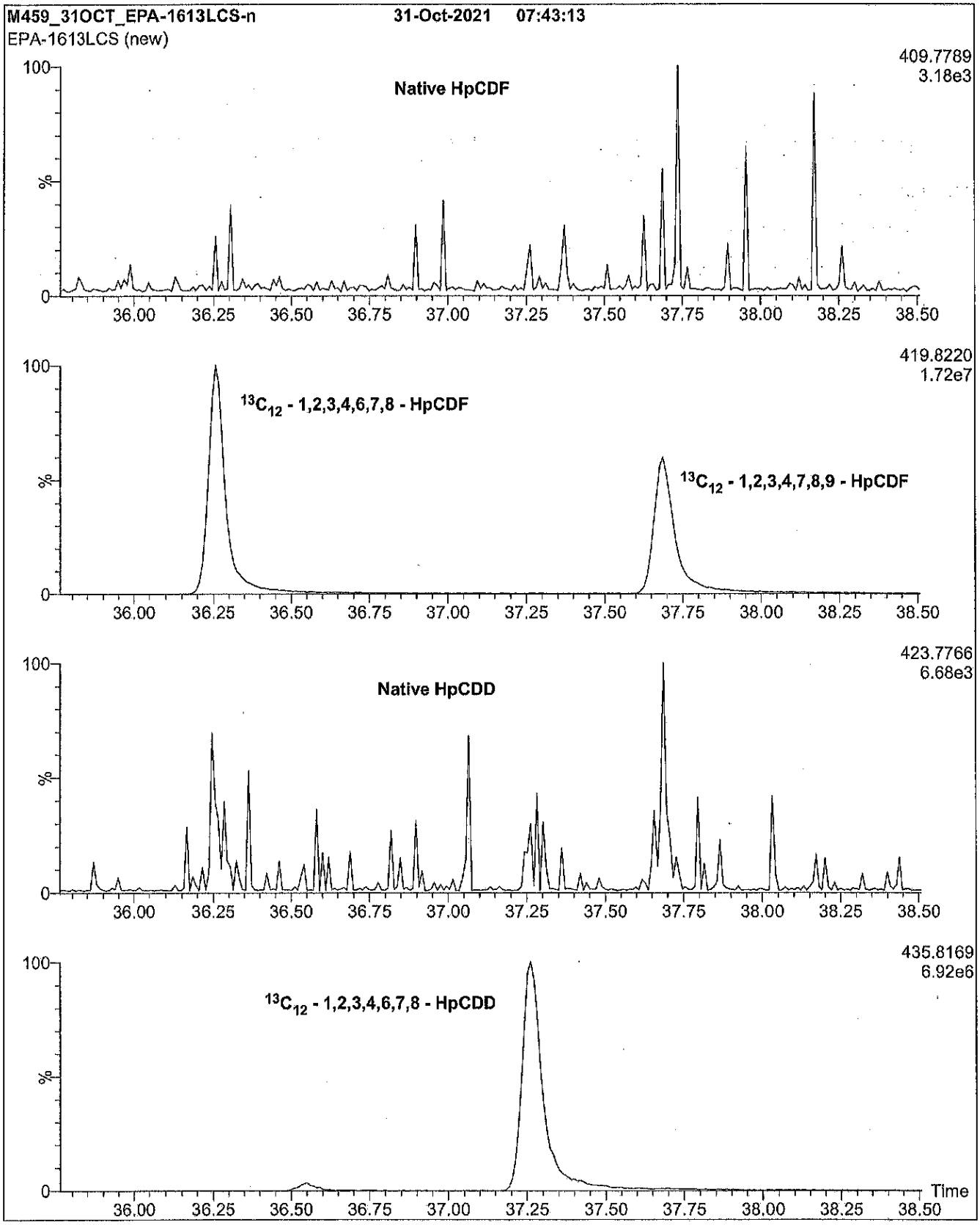
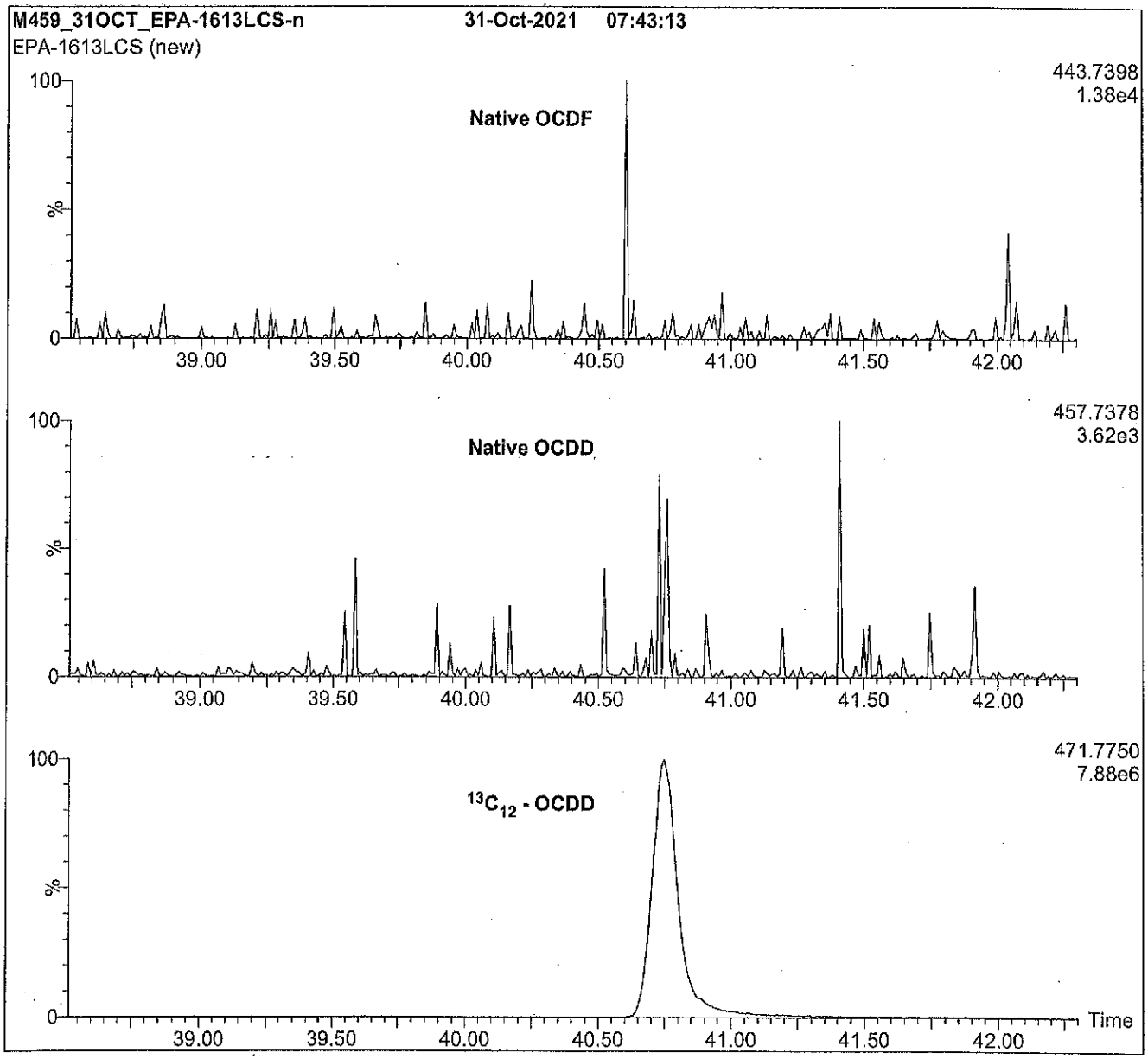


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

K9821

CS3WT

Calibration and Verification Solution (EPA-1613CS3) combined with Window Defining and 2,3,7,8-TCDD Resolution Testing Congeners

PRODUCT CODE:	CS3WT
LOT NUMBER:	CS3WT1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	11/01/2021
LAST TESTED: (mm/dd/yyyy)	11/02/2021
EXPIRY DATE: (mm/dd/yyyy)	11/02/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

CS3WT is a solution/mixture of native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$) polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Tables A and B.

CS3WT is an HRGC/HRMS calibration solution that was designed and prepared to be used according to U.S. EPA Method 1613, Revision B, in place of EPA-1613CS3 (lot: 13CS31021). Additionally, it contains the PCDD and PCDF isomers required to set retention time windows as well as test and establish isomer specificity for 2,3,7,8-TCDD on a DB-5 (or equivalent) capillary column.

The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-($^{37}Cl_4$)tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%. The individual native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of >98%; the other congeners (window defining and resolution testing) should only be considered semi-quantitative.

This current lot of CS3WT is to be used with the 1613 calibration solutions having the following lot numbers:

PRODUCT CODE	LOT NUMBER
EPA-1613CS1	13CS11021
EPA-1613CS2	13CS21021
EPA-1613CS3	13CS31021
EPA-1613CS4	13CS41021
EPA-1613CS5	13CS51021
EPA-1613CSL	13CSL1021
EPA-1613CS0.5	13CS0.51021

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to the quantitative components in this product. A maximum combined percent relative uncertainty of ±20% has been assigned to the semi-quantitative components in this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **CS3WT; Quantitative Components and Concentrations (ng/mL, ± 5%, in nonane/4.5% toluene)**

Compound		Acronym	CAS #	Concentration (ng/mL)
Native PCDDs:	**Designation[a]**			
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin		2,3,7,8-TCDD	1746-01-6	10.0
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin		1,2,3,7,8-PeCDD	40321-76-4	50.0
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin		1,2,3,4,7,8-HxCDD	39227-28-6	50.0
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin		1,2,3,6,7,8-HxCDD	57653-85-7	50.0
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin	Last HxCDD[b]	1,2,3,7,8,9-HxCDD	19408-74-3	50.0
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	Last HpCDD	1,2,3,4,6,7,8-HpCDD	35822-46-9	50.0
Octachlorodibenzo-*p*-dioxin		OCDD	3268-87-9	100
Native PCDFs:	**Designation[a]**			
2,3,7,8-Tetrachlorodibenzofuran		2,3,7,8-TCDF	51207-31-9	10.0
1,2,3,7,8-Pentachlorodibenzofuran		1,2,3,7,8-PeCDF	57117-41-6	50.0
2,3,4,7,8-Pentachlorodibenzofuran		2,3,4,7,8-PeCDF	57117-31-4	50.0
1,2,3,4,7,8-Hexachlorodibenzofuran		1,2,3,4,7,8-HxCDF	70648-26-9	50.0
1,2,3,6,7,8-Hexachlorodibenzofuran		1,2,3,6,7,8-HxCDF	57117-44-9	50.0
1,2,3,7,8,9-Hexachlorodibenzofuran		1,2,3,7,8,9-HxCDF	72918-21-9	50.0
2,3,4,6,7,8-Hexachlorodibenzofuran		2,3,4,6,7,8-HxCDF	60851-34-5	50.0
1,2,3,4,6,7,8-Heptachlorodibenzofuran	First HpCDF[c]	1,2,3,4,6,7,8-HpCDF	67562-39-4	50.0
1,2,3,4,7,8,9-Heptachlorodibenzofuran	Last HpCDF	1,2,3,4,7,8,9-HpCDF	55673-89-7	50.0
Octachlorodibenzofuran		OCDF	39001-02-0	100
Mass-Labelled PCDDs:				
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-OCDD	114423-97-1	200
Mass-Labelled PCDFs:				
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	109719-94-0	100
Cleanup Standard:				
2,3,7,8-($^{37}Cl_4$)Tetrachlorodibenzo-*p*-dioxin		$^{37}Cl_4$-2,3,7,8-TCDD	85508-50-5	10.0
Internal Standards:				
1,2,3,4-Tetrachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,4-TCDD	114423-99-3	100
1,2,3,7,8,9-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	109719-82-6	100

[a] First/Last eluting isomer for the specified homologue group (see Table B for additional Window Definers).
[b, c] – see Table B for footnote.

Table B: **CS3WT; Semi-Quantitative Components and Concentrations (ng/mL, ± 20%, in nonane/4.5% toluene)**

Compound		Acronym	CAS #	Concentration (ng/mL)
PCDD Window Definers:	**Designation[a]**			
1,3,6,8-Tetrachlorodibenzo-*p*-dioxin	First TCDD	1,3,6,8-TCDD	33423-92-6	10.0
1,2,8,9-Tetrachlorodibenzo-*p*-dioxin	Last TCDD	1,2,8,9-TCDD	62470-54-6	10.0
1,2,4,6,8-/1,2,4,7,9-Pentachlorodibenzo-*p*-dioxin	First PeCDD	1,2,4,6,8-PeCDD 1,2,4,7,9-PeCDD	71998-76-0 82291-37-0	50.0[d]
1,2,3,8,9-Pentachlorodibenzo-*p*-dioxin	Last PeCDD	1,2,3,8,9-PeCDD	71925-18-3	50.0
1,2,4,6,7,9-Hexachlorodibenzo-*p*-dioxin	First HxCDD	1,2,4,6,7,9-HxCDD	39227-62-8	50.0
1,2,3,4,6,7,9-Heptachlorodibenzo-*p*-dioxin	First HpCDD	1,2,3,4,6,7,9-HpCDD	58200-70-7	50.0
PCDF Window Definers:	**Designation[a]**			
1,3,6,8-Tetrachlorodibenzofuran	First TCDF	1,3,6,8-TCDF	71998-72-6	10.0
1,2,8,9-Tetrachlorodibenzofuran	Last TCDF	1,2,8,9-TCDF	70648-22-5	10.0
1,3,4,6,8-Pentachlorodibenzofuran	First PeCDF	1,3,4,6,8-PeCDF	83704-55-6	50.0
1,2,3,8,9-Pentachlorodibenzofuran	Last PeCDF	1,2,3,8,9-PeCDF	83704-54-5	50.0
1,2,3,4,6,8-Hexachlorodibenzofuran	First HxCDF	1,2,3,4,6,8-HxCDF	69698-60-8	50.0
2,3,7,8-TCDD Resolution Testing Isomers:				
1,2,3,4-Tetrachlorodibenzo-*p*-dioxin		1,2,3,4-TCDD	30746-58-8	5.00
1,2,3,7-/1,2,3,8-Tetrachlorodibenzo-*p*-dioxin		1,2,3,7-TCDD 1,2,3,8-TCDD	67028-18-6 53555-02-5	5.00[d]
1,2,3,9-Tetrachlorodibenzo-*p*-dioxin		1,2,3,9-TCDD	71669-26-6	10.0

[a] First/Last eluting isomer for the specified homologue group (see Table A for additional Window Definers).

[b] 1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD on a 60 m DB-5 column. Use 1,2,3,7,8,9-HxCDD (see Table A) and 1,2,3,4,6,7,9-HpCDD to approximate the end of the HxCDD window.

[c] 1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF on a 60 m DB-5 column. Use 1,2,3,4,6,7,8-HpCDF (see Table A) to approximate the end of the HxCDF window.

[d] Total concentration of isomers.

Certified By: _____ **Date:** 11/05/2021 (mm/dd/yyyy)

B.G. Chittim, General Manager

Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

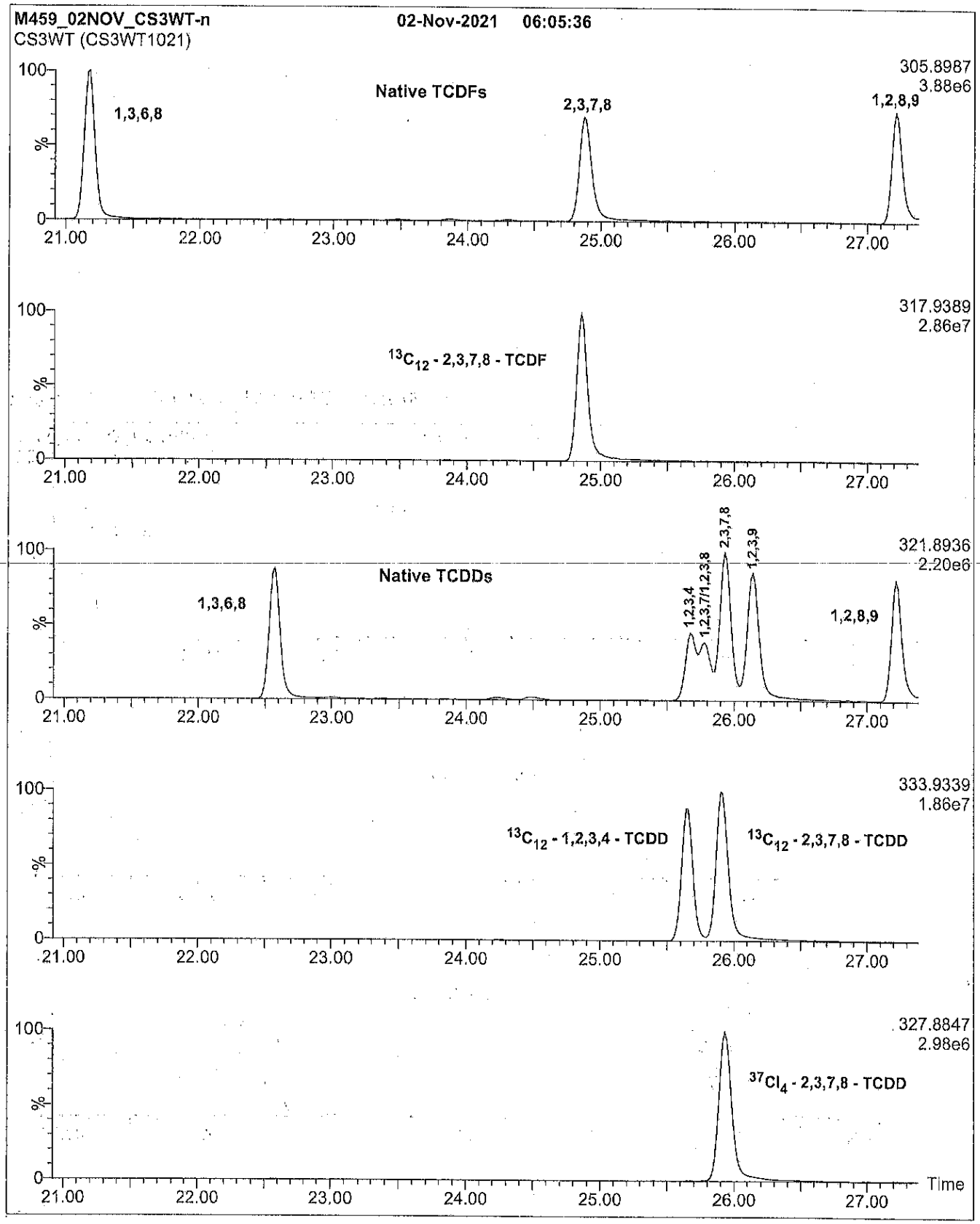


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

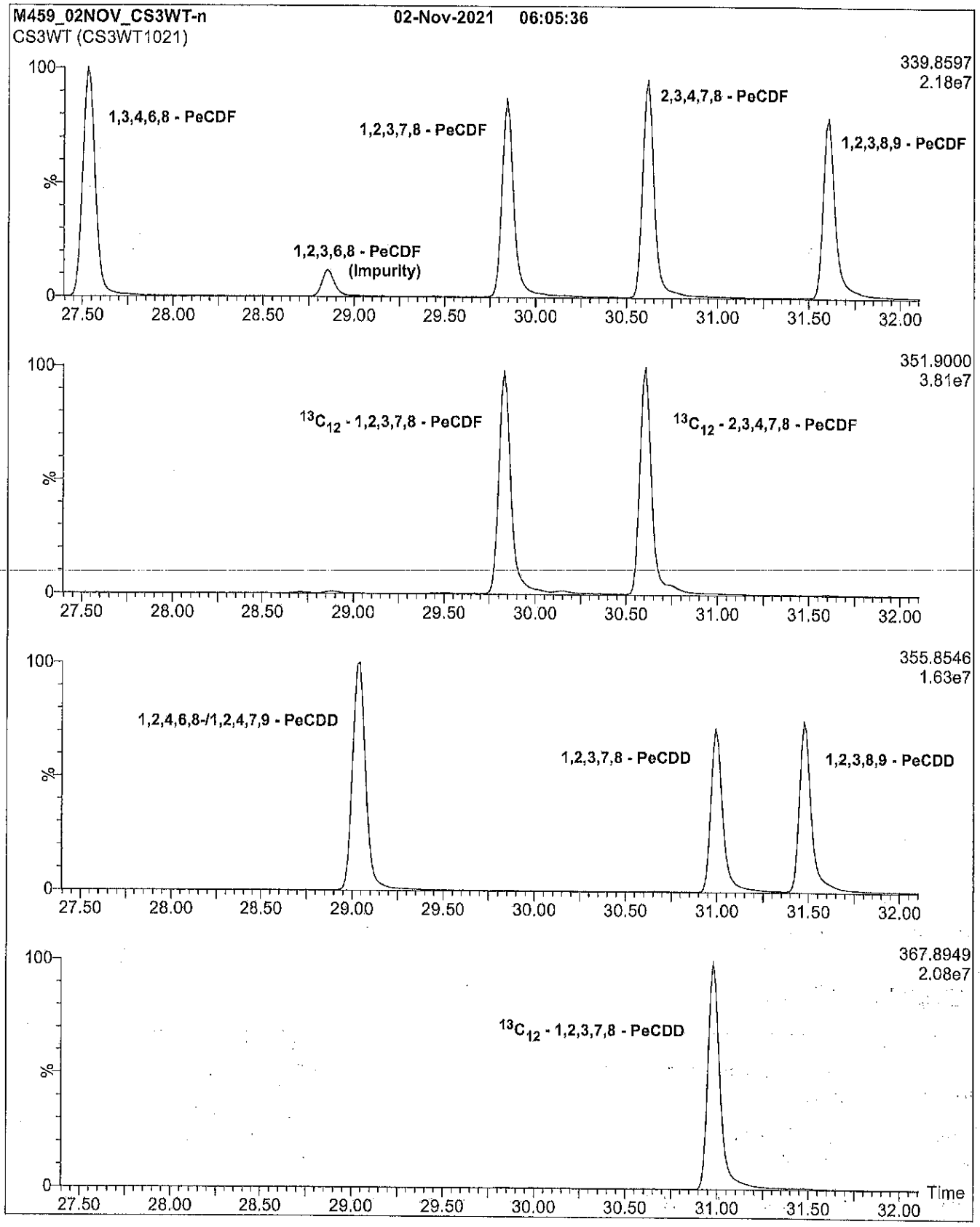


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

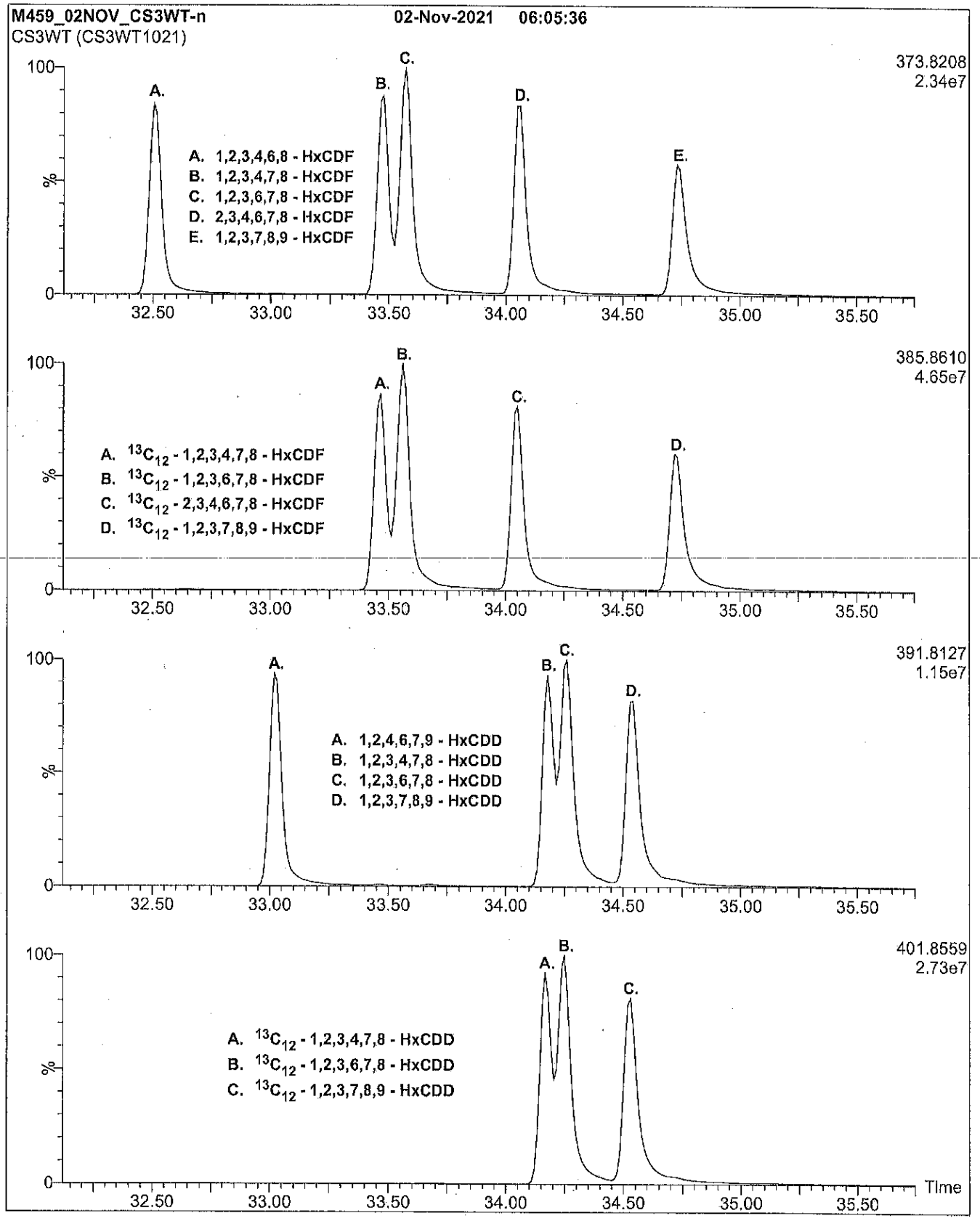


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

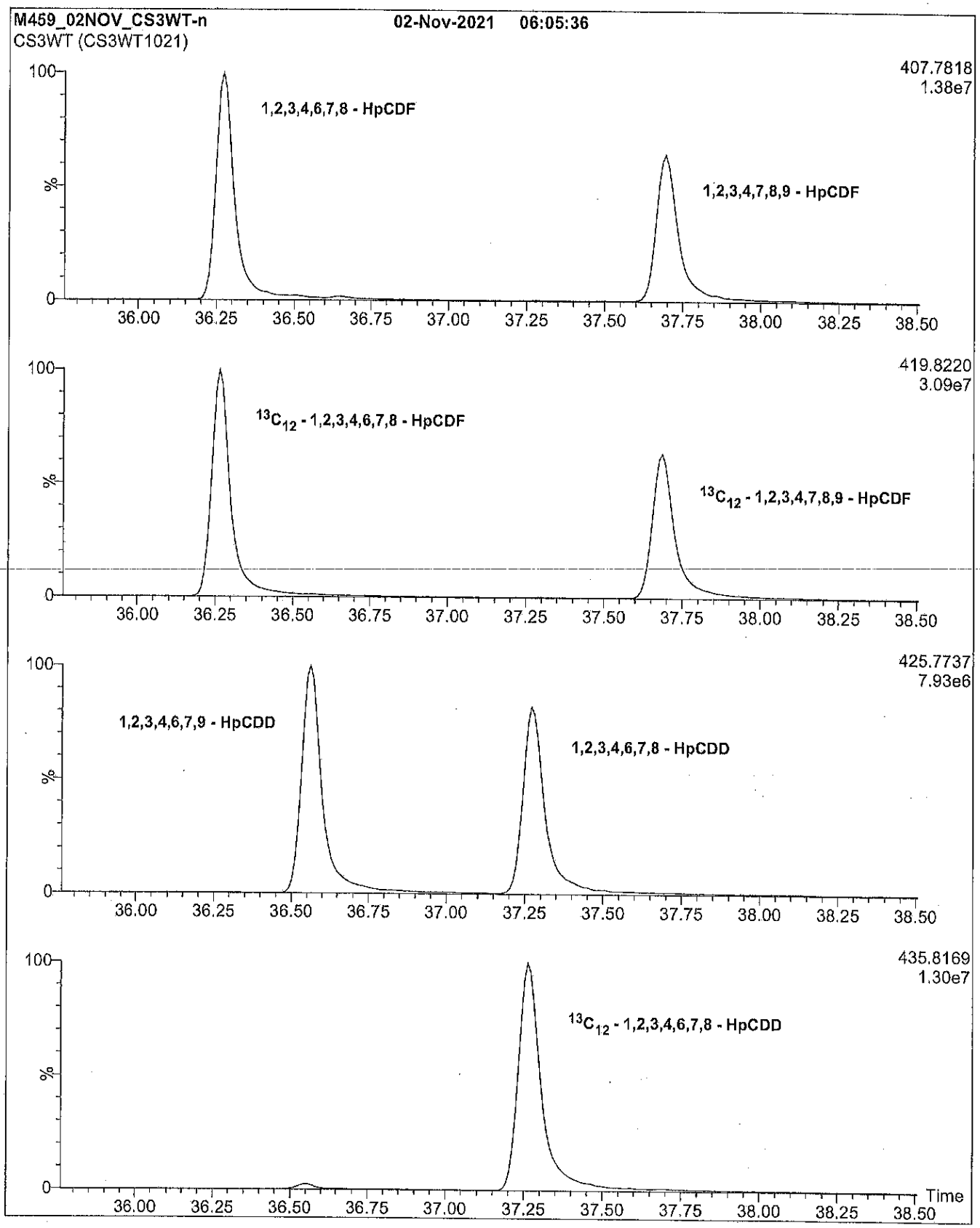
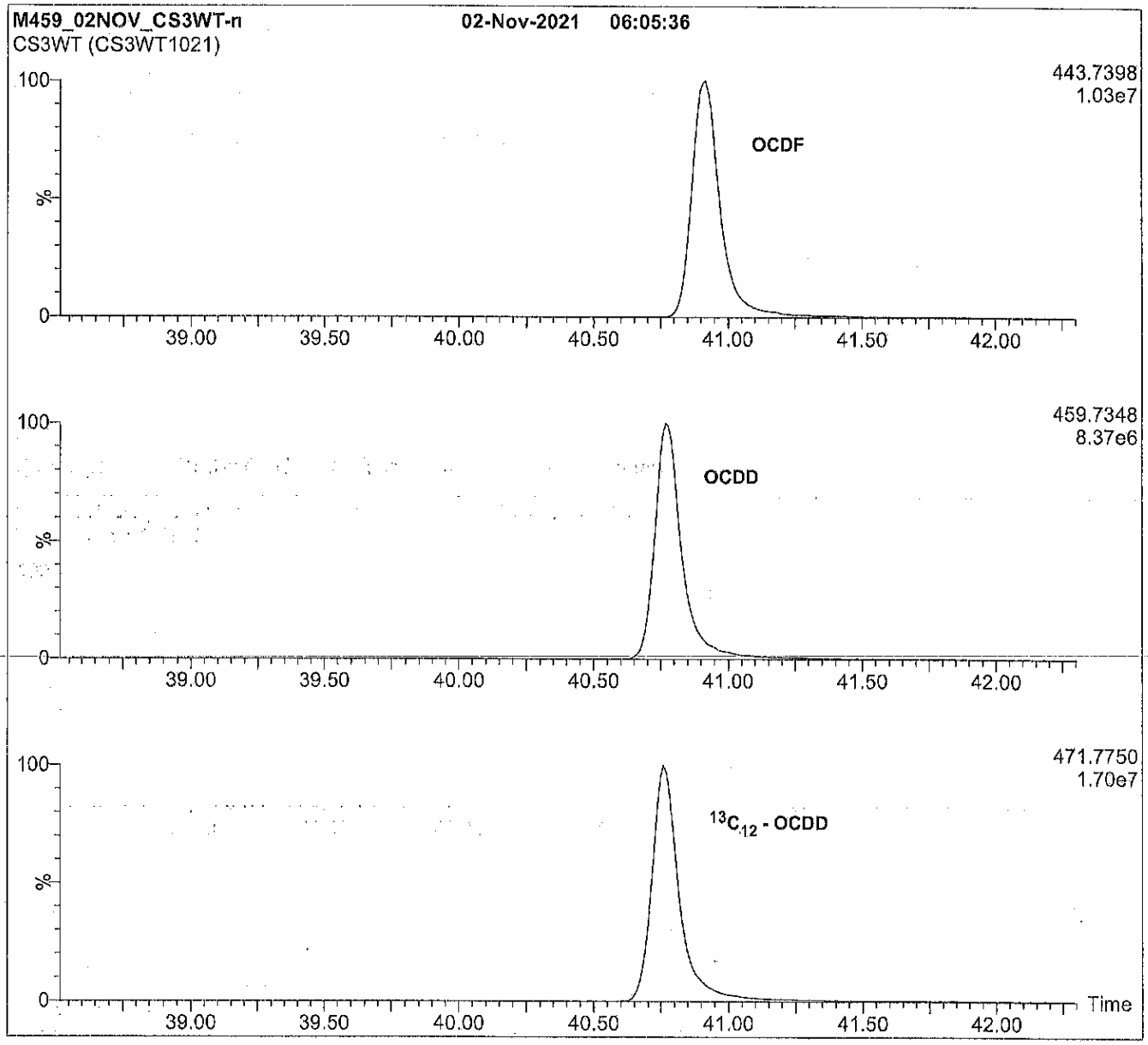


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613LCS

U.S. EPA Method 1613
Labelled Compound Stock Solution

PRODUCT CODE:	EPA-1613LCS
LOT NUMBER:	13LCS1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/29/2021
LAST TESTED: (mm/dd/yyyy)	10/31/2021
EXPIRY DATE: (mm/dd/yyyy)	10/31/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

K 9985 JK Reed 10/27/22

DESCRIPTION:

EPA-1613LCS is a solution/mixture of mass-labelled ($^{13}C_{12}$) polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613LCS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots, x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613LCS; Components and Concentrations (ng/mL, ± 5% in nonane/3.2% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
Mass-Labelled PCDDs:			
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-OCDD	114423-97-1	200
Mass-Labelled PCDFs:			
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	109719-94-0	100

Certified By: _____ **Date:** 11/05/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

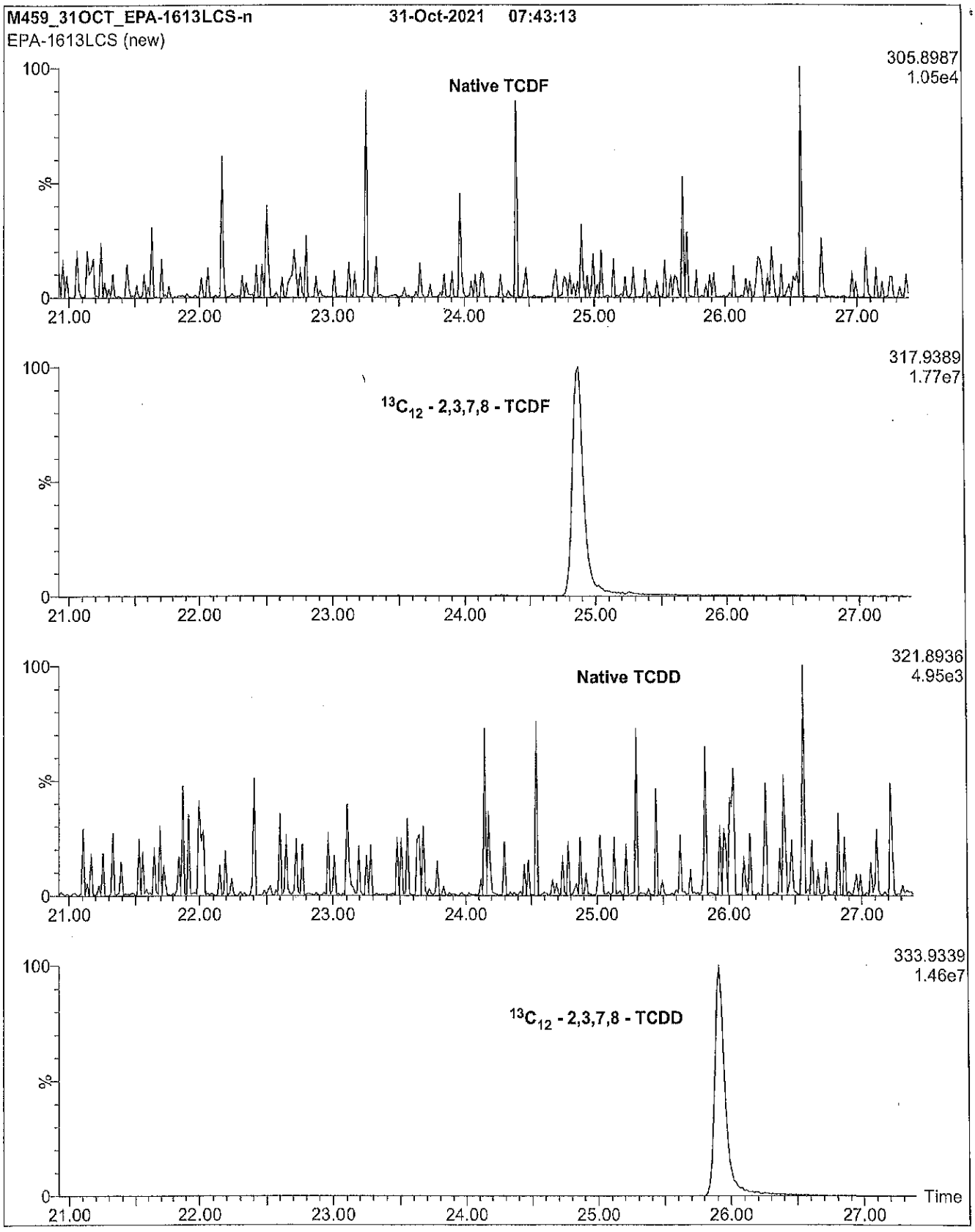


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

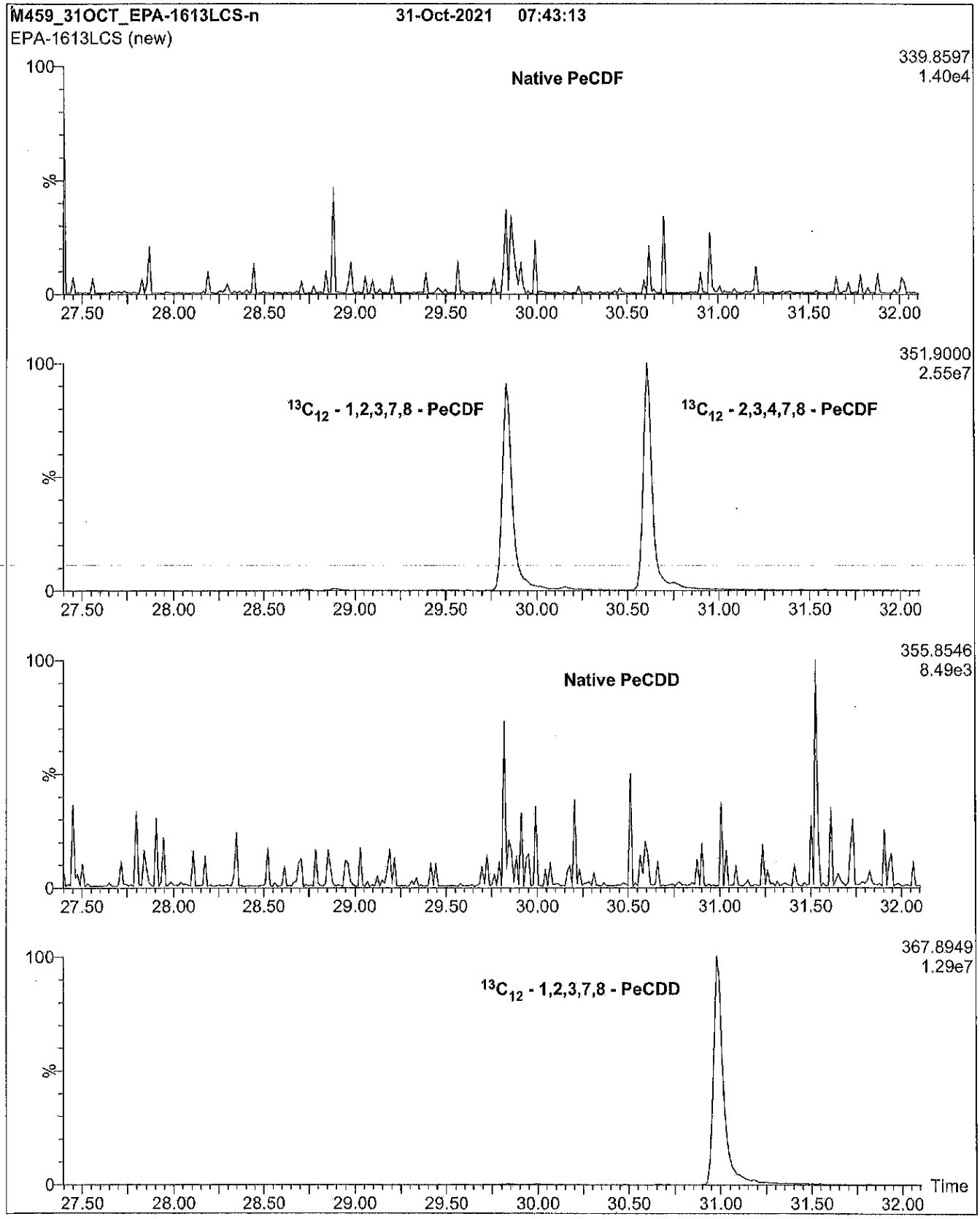


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

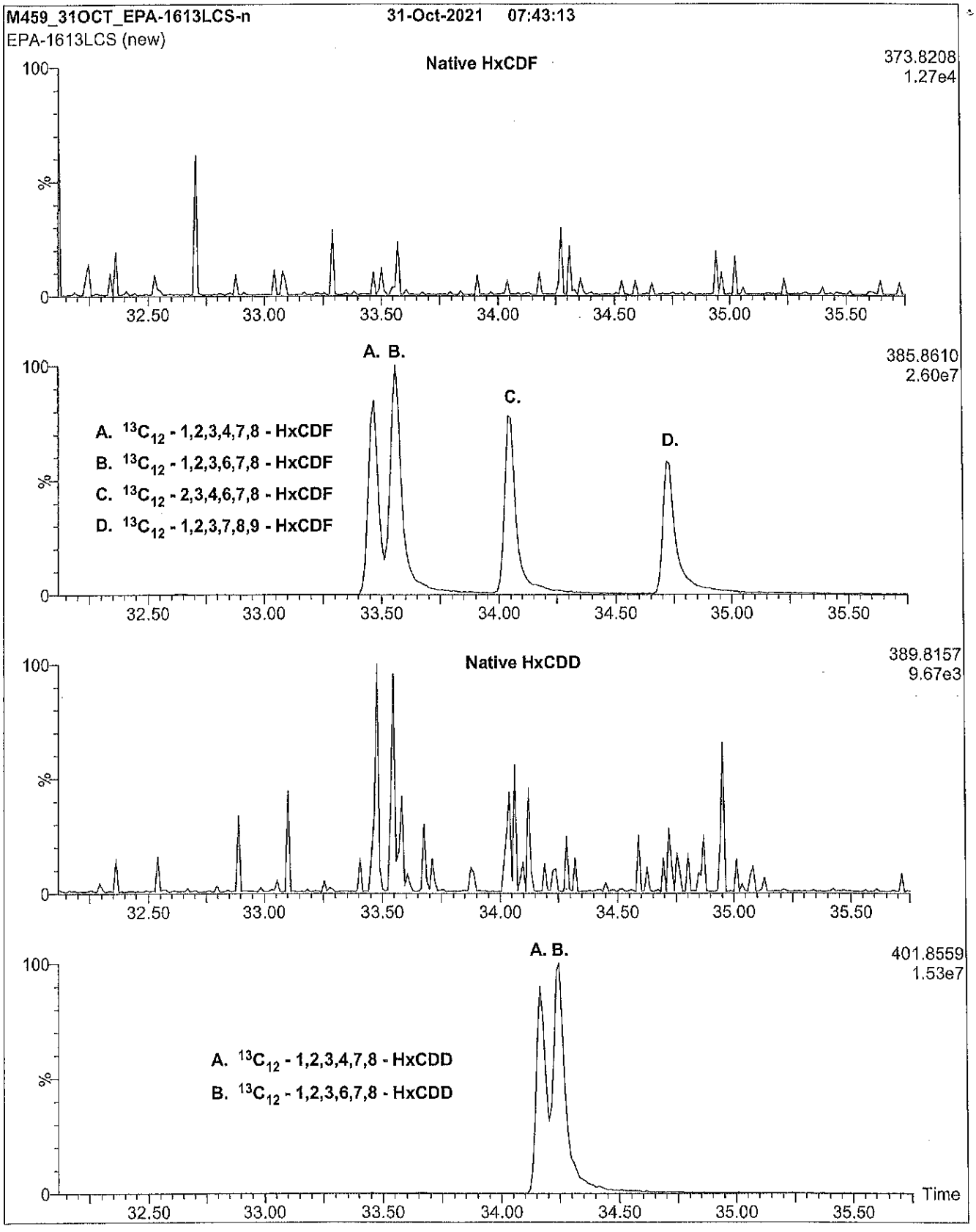


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

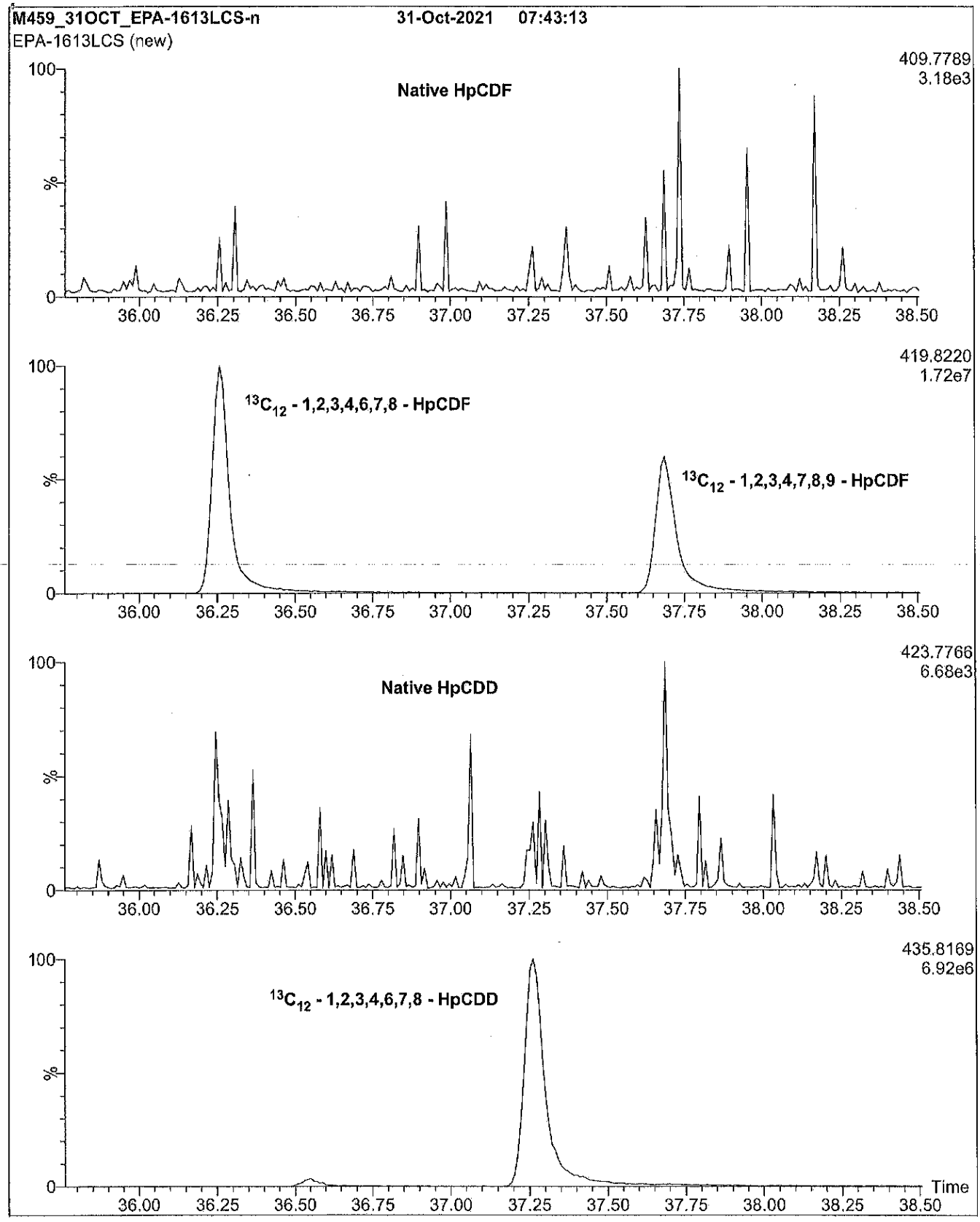
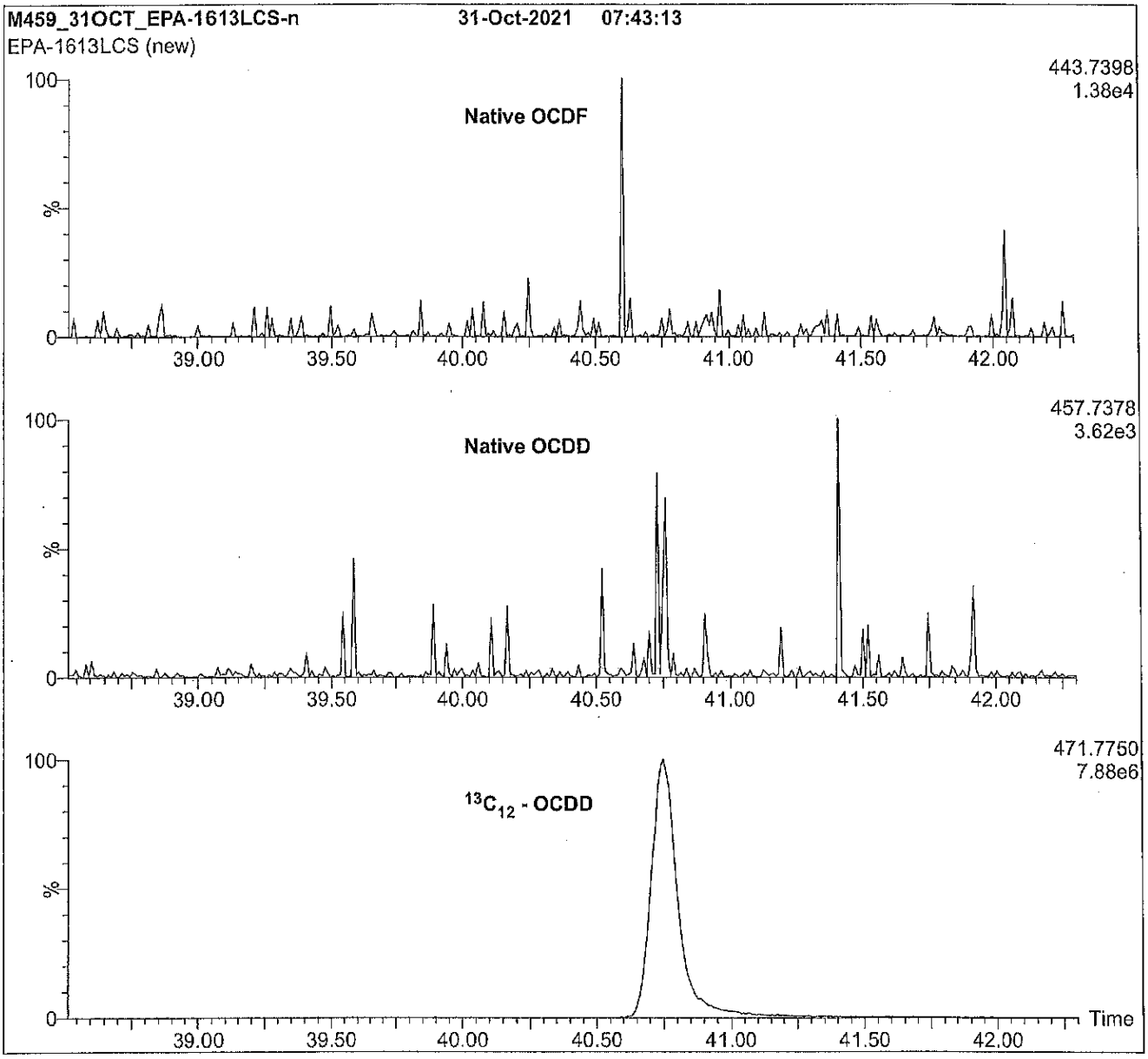


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15570

Order Number: CB014985

Date Shipped: 12/12/2022

AirBill No(s): 519204142631

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

To: SUE DUNNIHOO
ANALYTICAL RESOURCES INC.
4611 S. 134TH PLACE SUITE 100
TUKWILA WA 98168
250-695-6207

Sample ID	Sigma ID	Qty	Description/Remarks	→ Catalogue Number
KO11477 PSRM0168	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
KO11478 PSRM0169	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
KO11479 PSRM0171	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM

12/12/2022

PUGET SOUND SRM FOR DUWAMISH AOC4 PROJECT.

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	(1400) 12/12/2022	P Hilly PSH	12/12/22 11:15
Custody Seal(s): Present/Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Report No. 00, 9/11/2014

SMP Version 3.3

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SC1123B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-01 C	SDG:	22L0459
Sampled:	12/16/22 08:19	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-104
% Solids:	57.17	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:22
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.071 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	24.3	20	0.42	0.82	
7439-92-1	Lead	50.1	20	0.08	0.16	
7440-22-4	Silver	0.60	20	0.04	0.33	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SC1053C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-02 D	SDG:	22L0459
Sampled:	12/16/22 09:12	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-105
% Solids:	58.81	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:26
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.051 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	25.1	20	0.42	0.81	
7439-92-1	Lead	30.0	20	0.08	0.16	
7440-22-4	Silver	0.33	20	0.04	0.32	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SC1039C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-03 C	SDG:	22L0459
Sampled:	12/16/22 09:50	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-106
% Solids:	55.85	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:31
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.079 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	28.3	20	0.43	0.83	
7439-92-1	Lead	61.9	20	0.09	0.17	
7440-22-4	Silver	0.63	20	0.04	0.33	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SC1007B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-04 C	SDG:	22L0459
Sampled:	12/16/22 10:43	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-107
% Solids:	55.23	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:35
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.057 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	27.1	20	0.45	0.86	
7439-92-1	Lead	31.5	20	0.09	0.17	
7440-22-4	Silver	0.30	20	0.04	0.34	J

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SC1002C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-05 C	SDG:	22L0459
Sampled:	12/16/22 11:20	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-108
% Solids:	55.31	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:39
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.07 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	28.1	20	0.44	0.84	
7439-92-1	Lead	39.0	20	0.09	0.17	
7440-22-4	Silver	0.50	20	0.04	0.34	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SC1070B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-06 D	SDG:	22L0459
Sampled:	12/16/22 12:01	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-109
% Solids:	55.76	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:44
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.046 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	32.7	20	0.45	0.86	
7439-92-1	Lead	39.8	20	0.09	0.17	
7440-22-4	Silver	1.02	20	0.04	0.34	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SC1091B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-07 C	SDG:	22L0459
Sampled:	12/16/22 12:38	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-110
% Solids:	60.63	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:48
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.087 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	22.0	20	0.39	0.76	
7439-92-1	Lead	20.8	20	0.08	0.15	
7440-22-4	Silver	0.21	20	0.03	0.30	J

PREPARATION BATCH SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Batch: BKL0608 Batch Matrix: Solid Preparation: SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1123B	22L0459-01	XDT_m2230112-104	12/27/22 10:02	
LDW23-SC1053C	22L0459-02	XDT_m2230112-105	12/27/22 10:02	
LDW23-SC1039C	22L0459-03	XDT_m2230112-106	12/27/22 10:02	
LDW23-SC1007B	22L0459-04	XDT_m2230112-107	12/27/22 10:02	
LDW23-SC1002C	22L0459-05	XDT_m2230112-108	12/27/22 10:02	
LDW23-SC1070B	22L0459-06	XDT_m2230112-109	12/27/22 10:02	
LDW23-SC1091B	22L0459-07	XDT_m2230112-110	12/27/22 10:02	
Blank	BKL0608-BLK1	XDT_m2230109-026	12/27/22 10:02	
Blank	BKL0608-BLK2	XDT_m2230112-055	12/27/22 10:02	Added 1/13/2023 by MCB
LCS	BKL0608-BS1	XDT_m2230109-027	12/27/22 10:02	
LCS	BKL0608-BS2	XDT_m2230112-056	12/27/22 10:02	Added 1/13/2023 by MCB

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: AR Date: 12/29/22 Time: 1449-1940 Balance ID: BAL10

Matrix: Soil Block ID: 8 Block Temp: 90°C Thermometer: 70-4

ARI Sample ID	Btl #	pH<2	Prep Code: SWN Initial Wt (g) Vol (mL)	Prep Code: SWN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
22L199-43	A		1.022	50	1		
-44			1.020				
-45			1.082				
-46			1.073				
-47			1.063				
22L329-07	B		1.049				
-08			~~1.057~~ (1)				
-09	A		1.060		AR	12/29/22	
-10	B		1.057				
-11	A		1.086				
-12			1.019				
-13			1.027				
-14			1.017				
22L459-01	C		1.071				
-02	D		1.051				
-03	C		1.079				
-04			1.057				
-05			1.070				
-06	D		1.046				
-07	C		1.087				
BKL1008-blk	—		—				22L329-07
-bs	—		—				
-dup	—		1.048				
-MS	—		1.048				
-MSD	—		1.045				
-SRM	—		1.003				

Chemical/Reagent ID:

HNO_3: K115016 1:1 HNO_3: K117860 HCl: — H_2O_2: K100516

Tube Lot#: 22080165 Boiling Chip Lot#: — (DoD Only)

5061F
Version 007

(1) 1.069

Form I

METHOD BLANK DATA SHEET

EPA 6020B

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0459

Client: Anchor QEA, LLC | Project: AOC5 MR Phase 1

Batch: BKL0608 | Laboratory ID: BKL0608-BLK1 | Prepared: 12/27/22 10:02

Matrix: Solid | Preparation: SWN EPA 3050B | Analyzed: 01/09/23 15:59

Sequence: SLA0097 | Calibration: GA00024 | Instrument: ICPMS2

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium-52	ND	20	0.26	0.50	U
7439-92-1	Lead-208	ND	20	0.05	0.10	U

Form I

METHOD BLANK DATA SHEET

EPA 6020B

Total Metals

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0459
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Batch:	BKL0608	Laboratory ID:	BKL0608-BLK2	Prepared:	12/27/22 10:02
Matrix:	Solid	Preparation:	SWN EPA 3050B	Analyzed:	01/12/23 20:26
Sequence:	SLA0147	Calibration:	GA00033	Instrument:	ICPMS2

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-22-4	Silver-107	ND	20	0.02	0.20	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/09/23 16:03
Batch:	BKL0608	Laboratory ID:	BKL0608-BS1
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Chromium-52	25.0	26.9		108	80 - 120
Lead-208	25.0	27.3		109	80 - 120

* Indicates values outside of QC limits

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6020B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/12/23 20:31
Batch:	BKL0608	Laboratory ID:	BKL0608-BS2
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Silver-107	25.0	26.6		106	80 - 120

* Indicates values outside of QC limits

Analytical Resources, LLC
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INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00024	Instrument:	ICPMS2
Calibration Date:	01/09/2023 14:07		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Chromium-52	0	0	0.5	57302	10	21376.7	20	19933.7	50	18833.32	100	18759.66
Lead-208	0	0	0.1	47840	10	47112	20	46552.2	50	44382.86	100	46153.22

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00024	Instrument:	ICPMS2
Calibration Date:	01/09/2023 14:07		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Chromium-52	22700.9	82.5	0.9999		0.998	
Lead-208	38673.38	49.1	0.9996		0.998	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** SLAΦΦ97 **Cal:** GAΦΦΦ24

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	LΦ293		
		-CAL2	LΦ149		
		-CAL3	LΦ15Φ		
		-CAL4	LΦ151		
		-CAL5	LΦ294		
		-CAL6	LΦ153		
		-IBL1	—		
		-ICV1	LΦ243		
		-ICB1	LΦ293		
		-CCV1	LΦ294		
		-CCB1	LΦ293		
		-CRL1	LΦ149		
		-IFA1	K11871		Cr, S3?
		-IFB1	K11683		
		-HCV1	LΦ232		
		-HCV2	LΦ233		
		-IBL2	—		
		-CCV2			
		-CCB2			
		BKLΦ6Φ8-BLK1	SWN	20	
		-BS1			
		BKLΦΦ8Φ-BLK2			Pb only
		-BS2			
		22LΦ454-13	REN		Cu only

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ454-14	REN	5	Cu only
		↓ -Φ2	↓	10	↓
		22LΦ475-Φ1	↓	↓	Zn only
		22LΦ476-Φ1	↓	↓	↓
		SEQ-IBL3			
		-CCV3			
		↓ -CCB3			
		BLAΦ187-BLK1	REN		
		↓ -BS1	↓		
197→192		BLAΦ197-BLK1	↓		
↓		↓ -BS1	↓		
		23AΦΦ66-ΦIRE1	↓	5	Mn only
		23AΦ137-Φ1	↓	↓	
		23AΦ116-Φ1	↓	2	
		22LΦ199-43	SWN	20	Sc↑ - Not Needed
		↓ -44	↓	↓	↓ ↓
		SEQ-IBL4			
		-CCV4			
		↓ -CCB4			
		BLAΦ157-BLK1	REN		(Mn = ½RL) No Mn
		↓ -BS1	↓		↓
		23AΦΦΦ4-Φ1	↓	2	
		-Φ2	↓	↓	
		↓ -Φ3	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦΦΦ4-Φ4	REN	2	
		22LΦ199-45	SWN	20	Sc↑ - Not Needed
		-46	↓	↓	
		-47	↓	↓	
		SEQ-IBL5			
		-CCV5			
		-CCB5			
	✓	BLAΦ157-BLK1	REN		Wrong sample run
		BLAΦ194-BLK1	↓		
		-BS1	↓		
		22LΦ329-Φ8	SWN	20	
		-Φ9	↓	↓	Sc↑ - Not Needed
		-1Φ	↓	↓	↓ ↓
		-11	↓	↓	↓ ↓
		-12	↓	↓	
		-13	↓	↓	Sc↑ - Not Needed
		-14	↓	↓	↓ ↓
		SEQ-CCV6			
		-CCB6			
	✓	-CAL1			
		-CCV7			
		-CCB7			
		22LΦ329-Φ7	SWN	20	Sc↑ No Cr
		BKLΦ6Φ8-DUP1	↓	↓	↓ ↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ6Φ8-MS1	SWN	20	Sc↑ No Cr
		-MSD1	↓	↓	↓
		-PS1	↓	↓	60 mL K7409 ↓
		22HΦ525-Φ1	↓	↓	Not Needed
		-Φ2	↓	↓	↓
		-Φ3	↓	↓	Tb sl. noisy - %R + Analytes OK
		-Φ4	↓	↓	↓
		-Φ5	↓	↓	↓
		SEQ-CCV8			
		↓ -CCB8			
		BKLΦΦΦ6-SRL2	SWN	250	Zn only
		22IΦΦ52-25	↓	50	↓
		BKLΦΦΦ6-DUP2	↓	↓	↓
		-MS2	↓	↓	Sc↑ Not Needed / Zn %R↑
		-MSD2	↓	↓	↓
		-PS2	↓	↓	60 mL K7409 ↓
		22HΦ525-1Φ	↓	20	Sc↑ Not Needed
		-11	↓	↓	↓ ↓
		-12	↓	↓	↓ ↓
		-13	↓	↓	↓ ↓
		SEQ-CCV9			
		↓ -CCB9			
		BKLΦΦ35-SRL2	SWN	250	Zn only
		22IΦ188-Φ2	↓	50	↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦΦ35-DUP2	SWN	50	Zn only
		-MS2			Zn %R↑
		-MSD2			
		-PS2			60mL K7409
		22HΦ525-14		20	Sc↑ - Not Needed
		-1519			
		-2Φ			
		-21			
		SEQ-CCVA			
		-CCBA			
		22LΦ516-Φ1	REN	10	Zn↑/Sc,Tb noisy — Cd, Co, Ni only
		SEQ-IBL6			
		BKLΦΦ8Φ-SRL2	SWN	250	Pb, Zn only
		22IΦ188-2Φ		50	
		BKLΦΦ8Φ-DUP2			
		-MS2			
		-MSD2			Zn %R↑
		-PS2			60.mL K7409
		-SRM2		100	Pb only
		SEQ-IBL7			
		-CCVB			
		-CCBB			
		BKLΦ683-SRL2	SWN	250	Zn only
		22JΦΦ97-31		50	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ683-DUP2	SWN	50	Zn only
		-MS2			
		-MSD2			
		-PS2			60.ul K7409
		22HΦ525-22		20	Sc↑ - Not Needed
		-23			
		-24			
		-31			
		SEQ-CCVC			Ni 62 sl. noisy - Not Needed
		-CCBC			
	✓	-CAL1			
		-CCVD			
		-CCBD			
		22HΦ525-32	SWN	20	Sc↑ - Not Needed
		-33			Pb noisy No Pb
		-34			
		-35			
		-36			
		-38			
		-39			
		22HΦ529-Φ2			
		-12			
		-13			
		SEQ-CCVE			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBE			
		22HΦ529-14	SWN	20	Sc↑ - Not Needed
		-15			
		-16			Cu↑ Zn almost↑ No Cu, Zn
		-17			
		-18			
		-22			
		-23			
		-24			
		-25			
		-26			
		SEQ-CCVF			
		↓ -CCBF			
		22HΦ529-3Φ	SWN	20	Sc↑ - Not Needed / Cu, Zn↑ No Cu, Zn
		-31			
		-32			
		-33			Sc↑ - Not Needed
		22IΦΦ52-Φ1			
		-Φ2			
		-Φ3			
		-Φ5			
		-Φ6			
		-11			
		SEQ-CCVG			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBG			
		22LΦ428-ΦIRE1	REN		Cu only
		23AΦΦΦ9-Φ4	↓		
		-Φ6			
		-Φ8			
		-1Φ			
		-12			
		-Φ2			
		BLAΦ194-DUP1			
		↓ -MS1	↓		
		22IΦΦS2-13	SWN	20	Sc↑ - Not Needed
		SEQ-CCVH			
		-CCBH			
	✓	-CAL1			
		-CCVI			
		-CCBI			
		23AΦΦΦ9-Φ1	REN		
		-Φ3	↓		
		-Φ5			
		-Φ7			
		-Φ9			
		-11			
		22LΦ612-Φ1	↓		
		~~BKL~~ MS 1/9/23			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLAΦ157-DUP1	REN		
		↓ -MS1	↓		Mn STL
		SEQ-IBL8			(Sc, Tb sl. noisy)
		↓ -CCVJ			
		↓ -CCBJ			
		23AΦΦ1Φ-Φ1	REN		
		23AΦΦ13-Φ1	↓	2	
		23AΦΦ16-Φ1		5	Zn ND No Zn
		↓ -Φ2			Zn↑ No Zn
		22LΦ522-Φ1		2	
		22LΦ536-Φ2			Zn↑ No Zn
		↓ -Φ1			↓ ↓
	✓	BLAΦ187-DUP1			Wrong QC Source
	✓	↓ -MS1	↓		↓
		SEQ-IBL9			(Cr53↑)
		↓ -CCVK			
		↓ -CCBK			
		22LΦ523-Φ1	REN		
		22LΦ54Φ-Φ1	↓		
		22LΦ542-Φ1			
		22LΦ543-Φ1			
		↓ -Φ2			
		↓ -Φ3		2	
		22LΦ545-Φ1	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ546-Φ1	REN		
		↓ -Φ2	↓		
		22LΦ547-Φ1	↓		Zn↑ No Zn
		SEQ-CCVL			
		↓ -CCBL			
		22LΦ549-Φ1	REN		
		↓ -Φ2	↓		
		22LΦ55Φ-Φ1	↓	2	
		22LΦ551-Φ1	↓		
		22LΦ552-Φ1	↓	2	
		22LΦ553-Φ1	↓		
		22LΦ554-Φ1	↓		
		↓ -Φ2	↓		
		22LΦ555-Φ1	↓		
		22LΦ556-Φ1	↓		
		SEQ-CCVM			
		↓ -CCBM			Tb sl. noisy - %R ΦAnalytes OK
		Rinse/DI			
		MB 1/9/23			

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, January 09, 2023 12:54:15
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4860
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7877.3	7877.305	91.424	1.2	Standard
	In	114.9	64643.5	64643.462	238.075	0.4	Standard
	U	238.1	47383.8	47383.787	156.287	0.3	Standard
⌈	CeO	155.9	932.5	0.015	0.000	2.9	Standard
| >	Ce	139.9	62250.8	62250.803	118.292	0.2	Standard
⌊	Ce++	70.0	1513.6	0.024	0.000	2.0	Standard
	Bkgd	220.0	0.3	0.267	0.224	83.9	Standard

Current Conditions File Data

Current Value	Description
1.03	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.03	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/9/2023 12:54:12 PM
End Time: 1/9/2023 1:04:05 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 7877.30
Obtained Intensity (In 115): 64643.46
Obtained Intensity (U 238): 47383.79
Obtained Intensity (Bkgd 220): 0.27
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1513.61 / 62250.80)
Obtained Formula (CeO 156 / Ce 140): 0.015 (=932.50 / 62250.80)
Obtained RSD (Be 9): 0.0116
Obtained RSD (In 115): 0.0037
Obtained RSD (U 238): 0.0033

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
-0.18 mm	-0.18 mm	63018.69

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.03
Obtained Intensity (In 115): 63716.78
Obtained Formula (CeO 156 / Ce 140): 0.0186 (=1036.04 / 55570.87)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.701)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.704)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.91

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.98

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/9/2023 12:54:12 PM

STD Performance Check
- Optimization Settings:
  - Method: STD Performance Check.mth.
  - Intensity Criterion: Be 9 > 2000
  - Intensity Criterion: In 115 > 40000
  - Intensity Criterion: U 238 > 30000
  - Intensity Criterion: Bkgd 220 <= 1
  - Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
  - Formula Criterion: CeO 156 / Ce 140 <= 0.025
  - RSD Criterion: Be 9.0122 < 0.05
  - RSD Criterion: In 114.904 < 0.05
  - RSD Criterion: U 238.05 < 0.05
- Optimization Results:
- Initial Try
  - Obtained Intensity (Be 9): 7877.30
  - Obtained Intensity (In 115): 64643.46
  - Obtained Intensity (U 238): 47383.79
  - Obtained Intensity (Bkgd 220): 0.27
  - Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1513.61 / 62250.80)
  - Obtained Formula (CeO 156 / Ce 140): 0.015 (=932.50 / 62250.80)
  - Obtained RSD (Be 9): 0.0116
  - Obtained RSD (In 115): 0.0037
  - Obtained RSD (U 238): 0.0033

[Passed] Optimum value(s): N/A

Torch Alignment
- Optimization Settings:
  - Method: Torch Alignment.mth.
  - Intensity Criterion: In 115 Maximum
- Optimization Results:

	Vertical	Horizontal	Intensity
[Passed]	-0.18 mm	-0.18 mm	63018.69

Nebulizer Gas Flow STD/KED [NEB]
- Optimization Settings:
  - Method: Optimize.mth.
    - Initial Try - Start/End/Step: 1/1.1/0.01.
  - Intensity Criterion: In 115 Maximum
  - Formula Criterion: CeO 156 / Ce 140 <= 0.025
- Optimization Results:
- Initial Try
  - Obtained Intensity (In 115): 63716.78
  - Obtained Formula (CeO 156 / Ce 140): 0.0186 (=1036.04 / 55570.87)

[Passed] Optimum value(s): 1.03

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.701)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.704)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.91

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	35977.2
Mg	24	41	-12.5	38259.2
In	115	41	-10	69818.2
Ce	140	41	-8	65670.6
Pb	208	41	-7	31510.7
U	238	41	-7	53463.9

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.98

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	26320.2
Mg	24	41	-12.5	22105.1
In	115	41	-11	41058.9
Ce	140	41	-8.5	49850.8
Pb	208	41	-6	26324.2
U	238	41	-6.5	39065.3

End Time: 1/9/2023 1:04:05 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, January 09, 2023 13:08:10
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4868
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	8379.1	8379.057	171.401	2.0	Standard
	In	114.9	68481.0	68481.031	817.063	1.2	Standard
	U	238.1	52863.0	52863.045	803.864	1.5	Standard
⎡	CeO	155.9	1122.3	0.018	0.001	5.9	Standard
⎢>	Ce	139.9	62978.9	62978.856	462.492	0.7	Standard
⎣	Ce++	70.0	1527.0	0.024	0.001	3.5	Standard
	Bkgd	220.0	0.0	0.033	0.075	223.6	Standard

Current Conditions File Data

Current Value	Description
1.03	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.03	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/9/2023 1:04:32 PM
End Time: 1/9/2023 1:10:14 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.993; Intercept = -13.78

KED Mode QID - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -12.94

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 8379.06
Obtained Intensity (In 115): 68481.03
Obtained Intensity (U 238): 52863.04
Obtained Intensity (Bkgd 220): 0.03
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1527.02 / 62978.86)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1122.31 / 62978.86)
Obtained RSD (Be 9): 0.0205
Obtained RSD (In 115): 0.0119
Obtained RSD (U 238): 0.0152

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/9/2023 1:04:32 PM

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.993; Intercept = -13.78

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13.5	35909.1
Mg	24	41	-12.5	35175.3
In	115	41	-9.5	69677.5
Ce	140	41	-8	64091.4
Pb	208	41	-7	32328.5
U	238	41	-7	53078.4

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -12.94

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	26997.5
Mg	24	41	-13	23399.1
In	115	41	-9.5	41203.3
Ce	140	41	-8.5	49706.3
Pb	208	41	-6	25041.9
U	238	41	-5.5	39177.6

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.

Intensity Criterion: Be 9 > 2000

Intensity Criterion: In 115 > 40000

Intensity Criterion: U 238 > 30000

Intensity Criterion: Bkgd 220 <= 1

Formula Criterion: Ce++ 70 / Ce 140 <= 0.03

Formula Criterion: CeO 156 / Ce 140 <= 0.025

RSD Criterion: Be 9.0122 < 0.05

RSD Criterion: In 114.904 < 0.05

RSD Criterion: U 238.05 < 0.05

```
        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 8379.06
                Obtained Intensity (In 115): 68481.03
                Obtained Intensity (U 238): 52863.04
                Obtained Intensity (Bkgd 220): 0.03
                Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1527.02 / 62978.86)
                Obtained Formula (CeO 156 / Ce 140): 0.018 (=1122.31 / 62978.86)
                Obtained RSD (Be 9): 0.0205
                Obtained RSD (In 115): 0.0119
                Obtained RSD (U 238): 0.0152

[Passed]  Optimum value(s): N/A

End Time: 1/9/2023 1:10:14 PM
```

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:07:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				34196	4	Standard
	Cl	**37**		ug/L				3578521	0	Standard
⎡>	**Sc**	**45**		ug/L				476701	2	Standard
⎢	**Cr**	**52**		ug/L				18596	1	Standard
⎢	**Cr**	**53**		ug/L				133	1	Standard
⎣	**Mn**	**55**		ug/L				801	3	Standard
⎡>	**Ge**	**72**		ug/L				24444	3	KED
⎢	**Ni**	**60**		ug/L				86	11	KED
⎢	**Ni**	**62**		ug/L				16	33	KED
⎢	**Cu**	**63**		ug/L				67	30	KED
⎢	**Cu**	**65**		ug/L				42	18	KED
⎢	**Zn**	**66**		ug/L				67	9	KED
⎢	**Zn**	**67**		ug/L				11	16	KED
⎣	**As**	**75**		ug/L				6	31	KED
	Y	**89**		ug/L				230853	2	Standard
	Kr	**83**		ug/L				65	12	Standard
⎡>	**In-1**	**115**		ug/L				6387	3	KED
⎢	**Cd**	**111**		ug/L				5	39	KED
⎣	**Cd**	**114**		ug/L				2	124	KED
⎡>	**Tb**	**159**		ug/L				540555	4	Standard
⎣	**Pb**	**208**		ug/L				256	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:11:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38817	4	Standard
	Cl	**37**		ug/L			3578521	3519195	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	468423	2	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.019	3	18596	28651	2	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.029	5	133	1223	3	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.014	2	801	14624	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	25182	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.049	9	86	570	9	KED
|	**Ni**	**62**	**0.500**	ug/L	0.083	16	16	80	13	KED
|	**Cu**	**63**	**0.500**	ug/L	0.007	1	67	1772	0	KED
|	**Cu**	**65**	**0.500**	ug/L	0.033	6	42	893	6	KED
|	**Zn**	**66**	**6.000**	ug/L	0.046	0	67	2886	1	KED
|	**Zn**	**67**	**6.000**	ug/L	0.125	2	11	431	2	KED
⌊	**As**	**75**	**0.200**	ug/L	0.030	15	6	53	13	KED
	Y	**89**		ug/L			230853	226304	1	Standard
	Kr	**83**		ug/L			65	56	21	Standard
⌈>	**In-1**	**115**		ug/L			6387	6656	0	KED
|	**Cd**	**111**	**0.100**	ug/L	0.024	23	5	28	19	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.012	12	2	67	11	KED
⌈>	**Tb**	**159**		ug/L			540555	542831	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.004	4	256	4784	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:15:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40740	1	Standard
	Cl	**37**		ug/L			3578521	3494818	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	484571	1	Standard
|	**Cr**	**52**	**9.997**	ug/L	0.321	3	18596	213767	1	Standard
|	**Cr**	**53**	**10.000**	ug/L	0.185	1	133	22750	0	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.123	1	801	285680	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	24916	2	KED
|	**Ni**	**60**	**10.005**	ug/L	0.114	1	86	11813	1	KED
|	**Ni**	**62**	**10.008**	ug/L	0.089	0	16	1878	3	KED
|	**Cu**	**63**	**10.000**	ug/L	0.065	0	67	34340	1	KED
|	**Cu**	**65**	**10.000**	ug/L	0.127	1	42	16678	3	KED
|	**Zn**	**66**	**9.957**	ug/L	0.196	1	67	4640	3	KED
|	**Zn**	**67**	**10.390**	ug/L	0.697	6	11	817	6	KED
⌊	**As**	**75**	**10.000**	ug/L	0.279	2	6	2224	1	KED
	Y	**89**		ug/L			230853	234638	2	Standard
	Kr	**83**		ug/L			65	53	4	Standard
⌈>	**In-1**	**115**		ug/L			6387	6682	0	KED
|	**Cd**	**111**	**10.000**	ug/L	0.277	2	5	2504	2	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.078	0	2	5990	0	KED
⌈>	**Tb**	**159**		ug/L			540555	554130	2	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.377	3	256	471120	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:20:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40191	3	Standard
	Cl	**37**		ug/L			3578521	3565622	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	474697	0	Standard
⎢	**Cr**	**52**	**19.981**	ug/L	0.115	0	18596	398674	0	Standard
⎢	**Cr**	**53**	**19.978**	ug/L	0.466	2	133	44199	1	Standard
⎣	**Mn**	**55**	**20.053**	ug/L	0.173	0	801	566409	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	24027	1	KED
⎢	**Ni**	**60**	**19.894**	ug/L	0.131	0	86	22107	2	KED
⎢	**Ni**	**62**	**19.997**	ug/L	0.520	2	16	3600	1	KED
⎢	**Cu**	**63**	**19.840**	ug/L	0.073	0	67	63613	1	KED
⎢	**Cu**	**65**	**20.006**	ug/L	0.337	1	42	32170	1	KED
⎢	**Zn**	**66**	**20.047**	ug/L	0.483	2	67	9001	2	KED
⎢	**Zn**	**67**	**19.880**	ug/L	0.213	1	11	1472	2	KED
⎣	**As**	**75**	**19.980**	ug/L	0.259	1	6	4265	2	KED
	Y	**89**		ug/L			230853	228603	0	Standard
	Kr	**83**		ug/L			65	46	21	Standard
⎡>	**In-1**	**115**		ug/L			6387	6656	0	KED
⎢	**Cd**	**111**	**19.922**	ug/L	0.068	0	5	4888	0	KED
⎣	**Cd**	**114**	**20.022**	ug/L	0.697	3	2	11995	2	KED
⎡>	**Tb**	**159**		ug/L			540555	552228	3	Standard
⎣	**Pb**	**208**	**19.967**	ug/L	0.583	2	256	931044	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:25:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32467	1	Standard
	Cl	**37**		ug/L			3578521	3716177	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	460271	2	Standard
⎢	**Cr**	**52**	**50.013**	ug/L	0.707	1	18596	941666	1	Standard
⎢	**Cr**	**53**	**49.979**	ug/L	1.016	2	133	106774	0	Standard
⎣	**Mn**	**55**	**49.849**	ug/L	0.789	1	801	1343516	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	24452	2	KED
⎢	**Ni**	**60**	**49.596**	ug/L	1.137	2	86	53766	0	KED
⎢	**Ni**	**62**	**49.792**	ug/L	1.643	3	16	8911	1	KED
⎢	**Cu**	**63**	**49.904**	ug/L	1.627	3	67	161111	2	KED
⎢	**Cu**	**65**	**49.750**	ug/L	1.209	2	42	79340	0	KED
⎢	**Zn**	**66**	**49.629**	ug/L	1.262	2	67	21819	1	KED
⎢	**Zn**	**67**	**49.833**	ug/L	0.789	1	11	3681	3	KED
⎣	**As**	**75**	**49.840**	ug/L	1.170	2	6	10641	0	KED
	Y	**89**		ug/L			230853	227806	1	Standard
	Kr	**83**		ug/L			65	61	20	Standard
⎡>	**In-1**	**115**		ug/L			6387	6472	2	KED
⎢	**Cd**	**111**	**49.806**	ug/L	1.334	2	5	11645	0	KED
⎣	**Cd**	**114**	**49.760**	ug/L	1.337	2	2	28297	0	KED
⎡>	**Tb**	**159**		ug/L			540555	551403	3	Standard
⎣	**Pb**	**208**	**49.596**	ug/L	1.314	2	256	2219143	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:31:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38647	1	Standard
	Cl	**37**		ug/L			3578521	3776465	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	467709	4	Standard
⎢	**Cr**	**52**	**99.772**	ug/L	1.970	1	18596	1875966	2	Standard
⎢	**Cr**	**53**	**100.062**	ug/L	3.731	3	133	217453	2	Standard
⎣	**Mn**	**55**	**99.560**	ug/L	1.432	1	801	2686216	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23908	1	KED
⎢	**Ni**	**60**	**100.265**	ug/L	1.751	1	86	107154	0	KED
⎢	**Ni**	**62**	**100.063**	ug/L	2.075	2	16	17535	0	KED
⎢	**Cu**	**63**	**100.256**	ug/L	1.256	1	67	319195	0	KED
⎢	**Cu**	**65**	**100.250**	ug/L	2.886	2	42	157597	1	KED
⎢	**Zn**	**66**	**99.534**	ug/L	2.599	2	67	42077	0	KED
⎢	**Zn**	**67**	**100.044**	ug/L	3.822	3	11	7222	2	KED
⎣	**As**	**75**	**100.610**	ug/L	3.167	3	6	21432	1	KED
	Y	**89**		ug/L			230853	227537	4	Standard
	Kr	**83**		ug/L			65	95	3	Standard
⎡>	**In-1**	**115**		ug/L			6387	6490	1	KED
⎢	**Cd**	**111**	**100.087**	ug/L	1.769	1	5	23533	0	KED
⎣	**Cd**	**114**	**100.040**	ug/L	3.583	3	2	57119	1	KED
⎡>	**Tb**	**159**		ug/L			540555	552023	4	Standard
⎣	**Pb**	**208**	**100.690**	ug/L	2.955	2	256	4615322	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:38:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32272	2	Standard
	Cl	**37**		ug/L			3578521	3564314	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	456612	3	Standard
|	**Cr**	**52**	**0.033**	ug/L	0.021	64	18596	18403	1	Standard
|	**Cr**	**53**	**-0.007**	ug/L	0.002	35	133	113	7	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.000	33	801	744	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	24027	0	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.009	197	86	80	12	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.011	40	16	11	16	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	40	67	53	10	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.004	43	42	27	21	KED
|	**Zn**	**66**	**0.013**	ug/L	0.056	417	67	71	32	KED
|	**Zn**	**67**	**0.038**	ug/L	0.015	38	11	13	7	KED
⌊	**As**	**75**	**0.017**	ug/L	0.013	75	6	10	26	KED
	Y	**89**		ug/L			230853	220679	0	Standard
	Kr	**83**		ug/L			65	65	14	Standard
⌈>	**In-1**	**115**		ug/L			6387	6633	3	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.005	61	5	3	31	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	1234	2	2	39	KED
⌈>	**Tb**	**159**		ug/L			540555	536786	3	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	101	256	243	5	Standard

Sample Information

Sample Date/Time: Monday, January 09, 2023 14:31:44
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.040	0.50	10	20	50	100
Cr	53	**1.0000**	0.005	0.50	10	20	50	100
Mn	55	**1.0000**	0.058	0.50	10	20	50	100
Ge	72							
Ni	60	**0.9999**	0.045	0.50	10	20	50	100
Ni	62	**1.0000**	0.007	0.50	10	20	50	100
Cu	63	**1.0000**	0.133	0.50	10	20	50	100
Cu	65	**1.0000**	0.066	0.50	10	20	50	100
Zn	66	**0.9999**	0.018	6.00	10	20	50	100
Zn	67	**1.0000**	0.003	6.00	10	20	50	100
As	75	**0.9999**	0.009	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.036	0.10	10	20	50	100
Cd	114	**1.0000**	0.088	0.10	10	20	50	100
Tb	159							
Pb	208	**0.9999**	0.083	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:45:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40786	0	Standard
	Cl	**37**		ug/L			3578521	3843677	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	480771	2	Standard
⎢	**Cr**	**52**	**49.787**	ug/L	0.809	1	18596	972046	2	Standard
⎢	**Cr**	**53**	**49.470**	ug/L	0.879	1	133	110654	2	Standard
⎣	**Mn**	**55**	**50.598**	ug/L	0.758	1	801	1404133	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	24498	2	KED
⎢	**Ni**	**60**	**50.483**	ug/L	0.573	1	86	55341	2	KED
⎢	**Ni**	**62**	**51.318**	ug/L	0.367	0	16	9224	1	KED
⎢	**Cu**	**63**	**50.128**	ug/L	1.072	2	67	163576	2	KED
⎢	**Cu**	**65**	**50.843**	ug/L	0.690	1	42	81935	1	KED
⎢	**Zn**	**66**	**49.855**	ug/L	1.360	2	67	21628	0	KED
⎢	**Zn**	**67**	**47.602**	ug/L	0.296	0	11	3528	1	KED
⎣	**As**	**75**	**47.022**	ug/L	1.054	2	6	10268	0	KED
	Y	**89**		ug/L			230853	234516	2	Standard
	Kr	**83**		ug/L			65	62	15	Standard
⎡>	**In-1**	**115**		ug/L			6387	6662	1	KED
⎢	**Cd**	**111**	**50.117**	ug/L	1.037	2	5	12099	1	KED
⎣	**Cd**	**114**	**49.409**	ug/L	0.747	1	2	28971	2	KED
⎡>	**Tb**	**159**		ug/L			540555	565959	4	Standard
⎣	**Pb**	**208**	**49.764**	ug/L	2.005	4	256	2338061	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:53:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32454	2	Standard
	Cl	**37**		ug/L			3578521	3485295	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	466733	1	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.031	434	18596	18334	1	Standard
|	**Cr**	**53**	**-0.003**	ug/L	0.002	69	133	124	4	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	215	801	766	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	23033	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.018	298	86	87	21	KED
|	**Ni**	**62**	**0.005**	ug/L	0.042	773	16	16	43	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.003	72	67	52	14	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.003	59	42	31	15	KED
|	**Zn**	**66**	**0.008**	ug/L	0.010	120	67	66	4	KED
|	**Zn**	**67**	**-0.001**	ug/L	0.086	11541	11	10	56	KED
⌊	**As**	**75**	**0.009**	ug/L	0.008	85	6	8	17	KED
	Y	**89**		ug/L			230853	229503	2	Standard
	Kr	**83**		ug/L			65	43	24	Standard
⌈>	**In-1**	**115**		ug/L			6387	6370	2	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.006	50	5	2	65	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	355	2	1	111	KED
⌈>	**Tb**	**159**		ug/L			540555	542547	3	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	174	256	249	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:57:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	31531	3	Standard
	Cl	**37**		ug/L			3578521	3763953	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	466768	2	Standard
⎢	**Cr**	**52**	**50.184**	ug/L	1.833	3	18596	950918	2	Standard
⎢	**Cr**	**53**	**49.150**	ug/L	0.936	1	133	106710	0	Standard
⎣	**Mn**	**55**	**50.141**	ug/L	0.727	1	801	1350699	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23938	3	KED
⎢	**Ni**	**60**	**49.815**	ug/L	0.710	1	86	53346	3	KED
⎢	**Ni**	**62**	**48.460**	ug/L	0.830	1	16	8512	3	KED
⎢	**Cu**	**63**	**48.874**	ug/L	1.270	2	67	155835	4	KED
⎢	**Cu**	**65**	**48.695**	ug/L	1.588	3	42	76641	2	KED
⎢	**Zn**	**66**	**49.464**	ug/L	1.551	3	67	20963	2	KED
⎢	**Zn**	**67**	**47.809**	ug/L	0.769	1	11	3464	5	KED
⎣	**As**	**75**	**49.303**	ug/L	0.930	1	6	10520	3	KED
	Y	**89**		ug/L			230853	227527	1	Standard
	Kr	**83**		ug/L			65	61	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6443	0	KED
⎢	**Cd**	**111**	**48.789**	ug/L	0.450	0	5	11394	0	KED
⎣	**Cd**	**114**	**49.216**	ug/L	0.940	1	2	27911	1	KED
⎡>	**Tb**	**159**		ug/L			540555	554668	3	Standard
⎣	**Pb**	**208**	**49.212**	ug/L	1.696	3	256	2266949	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:04:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32390	2	Standard
	Cl	**37**		ug/L			3578521	3476432	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	453367	1	Standard
⎢	**Cr**	**52**	**0.010**	ug/L	0.013	135	18596	17857	0	Standard
⎢	**Cr**	**53**	**-0.007**	ug/L	0.004	59	133	111	9	Standard
⎣	**Mn**	**55**	**-0.002**	ug/L	0.001	60	801	721	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	22661	3	KED
⎢	**Ni**	**60**	**0.008**	ug/L	0.020	251	86	87	19	KED
⎢	**Ni**	**62**	**0.012**	ug/L	0.054	446	16	17	48	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.002	62	67	54	13	KED
⎢	**Cu**	**65**	**-0.009**	ug/L	0.006	72	42	26	37	KED
⎢	**Zn**	**66**	**-0.020**	ug/L	0.016	82	67	54	14	KED
⎢	**Zn**	**67**	**-0.007**	ug/L	0.028	412	11	10	21	KED
⎣	**As**	**75**	**0.003**	ug/L	0.010	348	6	6	34	KED
	Y	**89**		ug/L			230853	220617	1	Standard
	Kr	**83**		ug/L			65	68	37	Standard
⎡>	**In-1**	**115**		ug/L			6387	6506	2	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.003	20	5	2	24	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.003	337	2	1	101	KED
⎡>	**Tb**	**159**		ug/L			540555	535661	4	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.001	6530	256	253	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:09:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	35948	1	Standard
	Cl	**37**		ug/L			3578521	3574068	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	463765	1	Standard
|	**Cr**	**52**	**0.523**	ug/L	0.027	5	18596	27754	2	Standard
|	**Cr**	**53**	**0.510**	ug/L	0.033	6	133	1229	7	Standard
⌊	**Mn**	**55**	**0.519**	ug/L	0.015	2	801	14652	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23422	2	KED
|	**Ni**	**60**	**0.418**	ug/L	0.031	7	86	520	6	KED
|	**Ni**	**62**	**0.511**	ug/L	0.040	7	16	103	7	KED
|	**Cu**	**63**	**0.509**	ug/L	0.016	3	67	1653	3	KED
|	**Cu**	**65**	**0.500**	ug/L	0.013	2	42	810	0	KED
|	**Zn**	**66**	**6.233**	ug/L	0.466	7	67	2642	7	KED
|	**Zn**	**67**	**5.398**	ug/L	0.365	6	11	392	7	KED
⌊	**As**	**75**	**0.208**	ug/L	0.013	6	6	49	4	KED
	Y	**89**		ug/L			230853	232415	3	Standard
	Kr	**83**		ug/L			65	60	6	Standard
⌈>	**In-1**	**115**		ug/L			6387	6420	2	KED
|	**Cd**	**111**	**0.097**	ug/L	0.014	13	5	27	12	KED
⌊	**Cd**	**114**	**0.088**	ug/L	0.015	17	2	51	13	KED
⌈>	**Tb**	**159**		ug/L			540555	540991	3	Standard
⌊	**Pb**	**208**	**0.103**	ug/L	0.008	7	256	4883	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:16:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	133365	2	Standard
	Cl	**37**		ug/L			3578521	9574072	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	478682	1	Standard
|	**Cr**	**52**	**0.792**	ug/L	0.020	2	18596	33775	2	Standard
|	**Cr**	**53**	**4.268**	ug/L	0.040	0	133	9627	0	Standard
⌊	**Mn**	**55**	**0.093**	ug/L	0.001	0	801	3384	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	22875	0	KED
|	**Ni**	**60**	**0.027**	ug/L	0.005	17	86	107	4	KED
|	**Ni**	**62**	**0.101**	ug/L	0.060	59	16	32	31	KED
|	**Cu**	**63**	**0.022**	ug/L	0.006	26	67	130	14	KED
|	**Cu**	**65**	**0.019**	ug/L	0.006	29	42	68	12	KED
|	**Zn**	**66**	**0.180**	ug/L	0.031	17	67	135	9	KED
|	**Zn**	**67**	**0.121**	ug/L	0.075	61	11	19	26	KED
⌊	**As**	**75**	**0.030**	ug/L	0.010	33	6	12	16	KED
	Y	**89**		ug/L			230853	228373	0	Standard
	Kr	**83**		ug/L			65	122	20	Standard
⌈>	**In-1**	**115**		ug/L			6387	6624	0	KED
|	**Cd**	**111**	**0.034**	ug/L	0.018	53	5	13	32	KED
⌊	**Cd**	**114**	**0.050**	ug/L	0.017	33	2	31	31	KED
⌈>	**Tb**	**159**		ug/L			540555	559407	2	Standard
⌊	**Pb**	**208**	**0.027**	ug/L	0.002	7	256	1519	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:20:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	138783	3	Standard
	Cl	**37**		ug/L			3578521	9966369	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	485486	2	Standard
⎢	**Cr**	**52**	**20.026**	ug/L	0.174	0	18596	406193	2	Standard
⎢	**Cr**	**53**	**23.495**	ug/L	0.073	0	133	53138	2	Standard
⎣	**Mn**	**55**	**19.655**	ug/L	0.115	0	801	551293	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23742	0	KED
⎢	**Ni**	**60**	**20.042**	ug/L	0.397	1	86	21341	2	KED
⎢	**Ni**	**62**	**19.764**	ug/L	0.554	2	16	3453	3	KED
⎢	**Cu**	**63**	**19.545**	ug/L	0.202	1	67	61861	1	KED
⎢	**Cu**	**65**	**19.953**	ug/L	0.161	0	42	31194	1	KED
⎢	**Zn**	**66**	**18.915**	ug/L	0.159	0	67	7995	0	KED
⎢	**Zn**	**67**	**16.667**	ug/L	1.048	6	11	1204	5	KED
⎣	**As**	**75**	**19.326**	ug/L	0.115	0	6	4095	0	KED
	Y	**89**		ug/L			230853	229966	1	Standard
	Kr	**83**		ug/L			65	137	27	Standard
⎡>	**In-1**	**115**		ug/L			6387	6521	0	KED
⎢	**Cd**	**111**	**18.736**	ug/L	0.428	2	5	4431	1	KED
⎣	**Cd**	**114**	**18.778**	ug/L	0.504	2	2	10778	1	KED
⎡>	**Tb**	**159**		ug/L			540555	573723	2	Standard
⎣	**Pb**	**208**	**0.023**	ug/L	0.001	5	256	1349	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:25:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39074	3	Standard
	Cl	**37**		ug/L			3578521	3856935	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	456409	3	Standard
⎢	**Cr**	**52**	**193.343**	ug/L	2.966	1	18596	3531440	1	Standard
⎢	**Cr**	**53**	**198.015**	ug/L	5.129	2	133	419899	1	Standard
⎣	**Mn**	**55**	**191.807**	ug/L	3.718	1	801	5049101	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	22512	1	KED
⎢	**Ni**	**60**	**199.073**	ug/L	3.055	1	86	200278	1	KED
⎢	**Ni**	**62**	**192.794**	ug/L	2.871	1	16	31802	0	KED
⎢	**Cu**	**63**	**191.523**	ug/L	1.939	1	67	574163	0	KED
⎢	**Cu**	**65**	**193.460**	ug/L	4.472	2	42	286399	1	KED
⎢	**Zn**	**66**	**188.006**	ug/L	2.903	1	67	74799	0	KED
⎢	**Zn**	**67**	**186.011**	ug/L	2.602	1	11	12639	0	KED
⎣	**As**	**75**	**195.717**	ug/L	2.015	1	6	39265	0	KED
	Y	**89**		ug/L			230853	223300	2	Standard
	Kr	**83**		ug/L			65	142	11	Standard
⎡>	**In-1**	**115**		ug/L			6387	6273	2	KED
⎢	**Cd**	**111**	**190.924**	ug/L	4.507	2	5	43380	0	KED
⎣	**Cd**	**114**	**194.680**	ug/L	5.687	2	2	107437	1	KED
⎡>	**Tb**	**159**		ug/L			540555	552314	3	Standard
⎣	**Pb**	**208**	**195.436**	ug/L	5.153	2	256	8964706	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:30:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38343	3	Standard
	Cl	**37**		ug/L			3578521	3744087	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	417544	5	Standard
|	**Cr**	**52**	**294.258**	ug/L	9.636	3	18596	4904389	2	Standard
|	**Cr**	**53**	**299.702**	ug/L	5.314	1	133	581328	4	Standard
⌊	**Mn**	**55**	**290.052**	ug/L	11.115	3	801	6979432	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	22282	0	KED
|	**Ni**	**60**	**287.935**	ug/L	4.653	1	86	286696	1	KED
|	**Ni**	**62**	**289.121**	ug/L	9.466	3	16	47202	3	KED
|	**Cu**	**63**	**283.347**	ug/L	3.513	1	67	840765	0	KED
|	**Cu**	**65**	**277.320**	ug/L	6.276	2	42	406371	2	KED
|	**Zn**	**66**	**273.038**	ug/L	5.484	2	67	107507	2	KED
|	**Zn**	**67**	**275.612**	ug/L	6.869	2	11	18534	2	KED
⌊	**As**	**75**	**290.018**	ug/L	2.768	0	6	57589	0	KED
	Y	**89**		ug/L			230853	203066	6	Standard
	Kr	**83**		ug/L			65	189	25	Standard
⌈>	**In-1**	**115**		ug/L			6387	6115	1	KED
|	**Cd**	**111**	**277.844**	ug/L	0.889	0	5	61559	0	KED
⌊	**Cd**	**114**	**281.147**	ug/L	1.593	0	2	151309	0	KED
⌈>	**Tb**	**159**		ug/L			540555	511728	6	Standard
⌊	**Pb**	**208**	**296.866**	ug/L	18.243	6	256	12588201	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:37:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38232	2	Standard
	Cl	**37**		ug/L			3578521	3767099	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	473134	1	Standard
⎢	**Cr**	**52**	**0.028**	ug/L	0.012	41	18596	18982	0	Standard
⎢	**Cr**	**53**	**0.058**	ug/L	0.007	12	133	258	5	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.001	43	801	721	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	24085	0	KED
⎢	**Ni**	**60**	**-0.061**	ug/L	0.008	12	86	19	43	KED
⎢	**Ni**	**62**	**-0.056**	ug/L	0.013	22	16	6	34	KED
⎢	**Cu**	**63**	**0.018**	ug/L	0.002	10	67	124	4	KED
⎢	**Cu**	**65**	**0.013**	ug/L	0.009	64	42	62	21	KED
⎢	**Zn**	**66**	**0.014**	ug/L	0.039	272	67	72	22	KED
⎢	**Zn**	**67**	**0.020**	ug/L	0.015	74	11	12	8	KED
⎣	**As**	**75**	**0.014**	ug/L	0.012	83	6	9	25	KED
	Y	**89**		ug/L			230853	226205	2	Standard
	Kr	**83**		ug/L			65	48	14	Standard
⎡>	**In-1**	**115**		ug/L			6387	6471	1	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.004	30	5	1	50	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.002	152	2	3	34	KED
⎡>	**Tb**	**159**		ug/L			540555	546900	2	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	22	256	295	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:43:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33964	2	Standard
	Cl	**37**		ug/L			3578521	3844252	4	Standard
⎡>	**Sc**	**45**		ug/L			476701	480369	1	Standard
⎢	**Cr**	**52**	**48.855**	ug/L	0.513	1	18596	953430	1	Standard
⎢	**Cr**	**53**	**49.077**	ug/L	0.428	0	133	109674	0	Standard
⎣	**Mn**	**55**	**50.517**	ug/L	0.452	0	801	1400700	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	24890	0	KED
⎢	**Ni**	**60**	**49.269**	ug/L	0.541	1	86	54872	1	KED
⎢	**Ni**	**62**	**49.893**	ug/L	1.722	3	16	9113	3	KED
⎢	**Cu**	**63**	**49.049**	ug/L	0.590	1	67	162640	1	KED
⎢	**Cu**	**65**	**49.669**	ug/L	0.938	1	42	81338	1	KED
⎢	**Zn**	**66**	**50.175**	ug/L	0.106	0	67	22123	0	KED
⎢	**Zn**	**67**	**50.188**	ug/L	1.538	3	11	3779	3	KED
⎣	**As**	**75**	**49.548**	ug/L	0.333	0	6	10996	0	KED
	Y	**89**		ug/L			230853	235771	3	Standard
	Kr	**83**		ug/L			65	59	11	Standard
⎡>	**In-1**	**115**		ug/L			6387	6848	2	KED
⎢	**Cd**	**111**	**49.936**	ug/L	1.831	3	5	12386	0	KED
⎣	**Cd**	**114**	**50.024**	ug/L	2.132	4	2	30130	1	KED
⎡>	**Tb**	**159**		ug/L			540555	563345	3	Standard
⎣	**Pb**	**208**	**49.922**	ug/L	1.242	2	256	2335962	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:50:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33015	0	Standard
	Cl	**37**		ug/L			3578521	3704542	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	474926	1	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.027	1536	18596	18496	3	Standard
⎢	**Cr**	**53**	**0.034**	ug/L	0.005	15	133	207	4	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.001	54	801	726	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	24129	0	KED
⎢	**Ni**	**60**	**-0.009**	ug/L	0.004	46	86	75	5	KED
⎢	**Ni**	**62**	**0.005**	ug/L	0.011	219	16	17	11	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.002	62	67	56	11	KED
⎢	**Cu**	**65**	**-0.008**	ug/L	0.004	50	42	29	19	KED
⎢	**Zn**	**66**	**-0.004**	ug/L	0.022	568	67	64	13	KED
⎢	**Zn**	**67**	**-0.024**	ug/L	0.025	103	11	9	20	KED
⎣	**As**	**75**	**-0.005**	ug/L	0.015	305	6	5	57	KED
	Y	**89**		ug/L			230853	233305	1	Standard
	Kr	**83**		ug/L			65	44	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6405	1	KED
⎢	**Cd**	**111**	**-0.007**	ug/L	0.010	153	5	3	68	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.007	679	2	2	132	KED
⎡>	**Tb**	**159**		ug/L			540555	547515	2	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.001	160	256	233	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 15:59:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	46324	2	Standard
	Cl	37		ug/L			3578521	3738945	3	Standard
⌈>	Sc	45		ug/L			476701	484141	3	Standard
|	Cr	52	0.059	ug/L	0.011	18	18596	20016	3	Standard
|	Cr	53	0.032	ug/L	0.004	13	133	206	1	Standard
⌊	Mn	55	0.003	ug/L	0.003	90	801	893	4	Standard
⌈>	Ge	72		ug/L			24444	24924	1	KED
|	Ni	60	-0.064	ug/L	0.005	8	86	17	33	KED
|	Ni	62	-0.068	ug/L	0.012	18	16	4	49	KED
|	Cu	63	-0.009	ug/L	0.001	5	67	39	5	KED
|	Cu	65	-0.012	ug/L	0.003	26	42	24	22	KED
|	Zn	66	-0.059	ug/L	0.014	22	67	42	14	KED
|	Zn	67	-0.054	ug/L	0.026	48	11	7	25	KED
⌊	As	75	-0.006	ug/L	0.008	129	6	5	35	KED
	Y	89		ug/L			230853	233132	3	Standard
	Kr	83		ug/L			65	46	20	Standard
⌈>	In-1	115		ug/L			6387	7032	1	KED
|	Cd	111	-0.016	ug/L	0.002	14	5	1	34	KED
⌊	Cd	114	0.000	ug/L	0.006	1324	2	2	134	KED
⌈>	Tb	159		ug/L			540555	554009	4	Standard
⌊	Pb	208	-0.002	ug/L	0.000	15	256	178	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:03:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	40988	0	Standard
	Cl	37		ug/L			3578521	3629257	0	Standard
⌈>	Sc	45		ug/L			476701	459012	2	Standard
|	Cr	52	26.943	ug/L	0.797	2	18596	510278	0	Standard
|	Cr	53	26.559	ug/L	0.543	2	133	56774	2	Standard
⌊	Mn	55	27.237	ug/L	0.754	2	801	721705	0	Standard
⌈>	Ge	72		ug/L			24444	23613	0	KED
|	Ni	60	26.460	ug/L	0.460	1	86	27993	1	KED
|	Ni	62	26.261	ug/L	0.868	3	16	4557	2	KED
|	Cu	63	26.325	ug/L	0.339	1	67	82836	0	KED
|	Cu	65	27.041	ug/L	0.490	1	42	42027	1	KED
|	Zn	66	81.867	ug/L	1.187	1	67	34202	0	KED
|	Zn	67	76.445	ug/L	1.246	1	11	5455	1	KED
⌊	As	75	25.218	ug/L	0.451	1	6	5312	1	KED
	Y	89		ug/L			230853	225975	1	Standard
	Kr	83		ug/L			65	60	17	Standard
⌈>	In-1	115		ug/L			6387	6475	1	KED
|	Cd	111	25.974	ug/L	0.726	2	5	6097	1	KED
⌊	Cd	114	25.913	ug/L	0.100	0	2	14770	1	KED
⌈>	Tb	159		ug/L			540555	535290	2	Standard
⌊	Pb	208	27.333	ug/L	0.697	2	256	1215549	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:15:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40306	2	Standard
	Cl	**37**		ug/L			3578521	3599694	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	457934	2	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.033	168	18596	18217	1	Standard
|	**Cr**	**53**	**0.022**	ug/L	0.003	15	133	175	3	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.001	10	801	938	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23903	1	KED
|	**Ni**	**60**	**-0.070**	ug/L	0.004	5	86	9	40	KED
|	**Ni**	**62**	**-0.070**	ug/L	0.011	15	16	3	50	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	41	67	53	10	KED
|	**Cu**	**65**	**-0.012**	ug/L	0.004	31	42	23	26	KED
|	**Zn**	**66**	**-0.037**	ug/L	0.020	54	67	50	15	KED
|	**Zn**	**67**	**-0.049**	ug/L	0.025	51	11	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	855	6	6	18	KED
	Y	**89**		ug/L			230853	222370	2	Standard
	Kr	**83**		ug/L			65	43	19	Standard
⌈>	**In-1**	**115**		ug/L			6387	6482	2	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.006	75	5	3	45	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	169	2	3	37	KED
⌈>	**Tb**	**159**		ug/L			540555	532770	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	121	256	218	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:20:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39701	3	Standard
	Cl	**37**		ug/L			3578521	3641610	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	482467	1	Standard
|	**Cr**	**52**	**27.183**	ug/L	0.195	0	18596	541167	1	Standard
|	**Cr**	**53**	**27.154**	ug/L	0.144	0	133	61017	2	Standard
⌊	**Mn**	**55**	**27.761**	ug/L	0.471	1	801	773317	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23902	1	KED
|	**Ni**	**60**	**27.923**	ug/L	0.516	1	86	29896	0	KED
|	**Ni**	**62**	**27.174**	ug/L	0.913	3	16	4775	4	KED
|	**Cu**	**63**	**26.665**	ug/L	0.528	1	67	84932	2	KED
|	**Cu**	**65**	**27.045**	ug/L	0.587	2	42	42543	1	KED
|	**Zn**	**66**	**84.993**	ug/L	2.024	2	67	35935	1	KED
|	**Zn**	**67**	**77.004**	ug/L	1.713	2	11	5563	3	KED
⌊	**As**	**75**	**25.553**	ug/L	0.662	2	6	5447	1	KED
	Y	**89**		ug/L			230853	234135	0	Standard
	Kr	**83**		ug/L			65	66	13	Standard
⌈>	**In-1**	**115**		ug/L			6387	6720	1	KED
|	**Cd**	**111**	**25.939**	ug/L	0.364	1	5	6320	1	KED
⌊	**Cd**	**114**	**26.196**	ug/L	0.419	1	2	15495	1	KED
⌈>	**Tb**	**159**		ug/L			540555	544321	3	Standard
⌊	**Pb**	**208**	**28.164**	ug/L	1.019	3	256	1273060	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:24:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34600	3	Standard
	Cl	**37**		ug/L			3578521	3567331	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	449997	1	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.027	351	18596	17692	3	Standard
|	**Cr**	**53**	**0.027**	ug/L	0.006	22	133	183	6	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.003	160	801	801	7	Standard
⌈>	**Ge**	**72**		ug/L			24444	23602	1	KED
|	**Ni**	**60**	**0.016**	ug/L	0.008	49	86	100	9	KED
|	**Ni**	**62**	**0.103**	ug/L	0.029	28	16	33	14	KED
|	**Cu**	**63**	**37.085**	ug/L	0.056	0	67	116624	1	KED
|	**Cu**	**65**	**37.112**	ug/L	0.436	1	42	57637	0	KED
|	**Zn**	**66**	**0.486**	ug/L	0.058	11	67	267	10	KED
|	**Zn**	**67**	**0.416**	ug/L	0.009	2	11	40	2	KED
⌊	**As**	**75**	**0.011**	ug/L	0.014	131	6	8	35	KED
	Y	**89**		ug/L			230853	221057	2	Standard
	Kr	**83**		ug/L			65	59	8	Standard
⌈>	**In-1**	**115**		ug/L			6387	6612	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.011	75	5	1	132	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	62	2	0	224	KED
⌈>	**Tb**	**159**		ug/L			540555	521310	3	Standard
⌊	**Pb**	**208**	**0.087**	ug/L	0.004	4	256	3998	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-14
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 16:28:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	37032	4	Standard
	Cl	**37**		ug/L			3578521	3612709	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	461936	0	Standard
|	**Cr**	**52**	**0.078**	ug/L	0.017	21	18596	19452	1	Standard
|	**Cr**	**53**	**0.124**	ug/L	0.008	6	133	394	4	Standard
⌊	**Mn**	**55**	**0.214**	ug/L	0.006	2	801	6472	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23448	2	KED
|	**Ni**	**60**	**0.007**	ug/L	0.004	61	86	90	3	KED
|	**Ni**	**62**	**0.160**	ug/L	0.059	37	16	43	21	KED
|	**Cu**	**63**	**57.999**	ug/L	2.111	3	67	181076	2	KED
|	**Cu**	**65**	**57.765**	ug/L	2.160	3	42	89070	2	KED
|	**Zn**	**66**	**1.330**	ug/L	0.104	7	67	614	5	KED
|	**Zn**	**67**	**1.213**	ug/L	0.248	20	11	96	15	KED
⌊	**As**	**75**	**0.104**	ug/L	0.008	7	6	28	8	KED
	Y	**89**		ug/L			230853	223875	0	Standard
	Kr	**83**		ug/L			65	55	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6464	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.008	134	5	3	50	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	167	2	3	54	KED
⌈>	**Tb**	**159**		ug/L			540555	531880	4	Standard
⌊	**Pb**	**208**	**0.610**	ug/L	0.026	4	256	27175	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-02
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:33:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	36675	1	Standard
	Cl	**37**		ug/L			3578521	3628064	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	473048	1	Standard
|	**Cr**	**52**	**0.048**	ug/L	0.014	28	18596	19353	0	Standard
|	**Cr**	**53**	**0.057**	ug/L	0.010	18	133	258	7	Standard
⌊	**Mn**	**55**	**0.018**	ug/L	0.002	12	801	1282	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	24540	2	KED
|	**Ni**	**60**	**-0.014**	ug/L	0.006	47	86	71	11	KED
|	**Ni**	**62**	**0.134**	ug/L	0.011	8	16	40	7	KED
|	**Cu**	**63**	**54.182**	ug/L	1.116	2	67	177056	0	KED
|	**Cu**	**65**	**55.386**	ug/L	2.140	3	42	89354	0	KED
|	**Zn**	**66**	**4.384**	ug/L	0.306	6	67	1965	4	KED
|	**Zn**	**67**	**3.472**	ug/L	0.369	10	11	267	7	KED
⌊	**As**	**75**	**0.016**	ug/L	0.007	43	6	10	15	KED
	Y	**89**		ug/L			230853	231963	1	Standard
	Kr	**83**		ug/L			65	52	21	Standard
⌈>	**In-1**	**115**		ug/L			6387	6706	1	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.006	52	5	2	57	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	442	2	2	73	KED
⌈>	**Tb**	**159**		ug/L			540555	547136	2	Standard
⌊	**Pb**	**208**	**0.038**	ug/L	0.001	3	256	1983	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0475-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:37:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	35647	2	Standard
	Cl	**37**		ug/L			3578521	3575993	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	454965	2	Standard
|	**Cr**	**52**	**0.074**	ug/L	0.017	23	18596	19081	0	Standard
|	**Cr**	**53**	**0.093**	ug/L	0.003	3	133	324	0	Standard
⌊	**Mn**	**55**	**0.460**	ug/L	0.011	2	801	12835	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23475	0	KED
|	**Ni**	**60**	**-0.015**	ug/L	0.018	114	86	66	27	KED
|	**Ni**	**62**	**0.000**	ug/L	0.055	28890	16	15	59	KED
|	**Cu**	**63**	**0.467**	ug/L	0.034	7	67	1525	6	KED
|	**Cu**	**65**	**0.506**	ug/L	0.051	10	42	822	9	KED
|	**Zn**	**66**	**60.664**	ug/L	1.748	2	67	25213	2	KED
|	**Zn**	**67**	**52.682**	ug/L	0.456	0	11	3741	1	KED
⌊	**As**	**75**	**0.065**	ug/L	0.006	8	6	20	6	KED
	Y	**89**		ug/L			230853	221691	1	Standard
	Kr	**83**		ug/L			65	52	16	Standard
⌈>	**In-1**	**115**		ug/L			6387	6478	1	KED
|	**Cd**	**111**	**0.120**	ug/L	0.009	7	5	33	4	KED
⌊	**Cd**	**114**	**0.137**	ug/L	0.039	28	2	80	26	KED
⌈>	**Tb**	**159**		ug/L			540555	518561	3	Standard
⌊	**Pb**	**208**	**0.030**	ug/L	0.003	8	256	1544	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0476-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:42:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	36008	4	Standard
	Cl	**37**		ug/L			3578521	3564717	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	466106	4	Standard
|	**Cr**	**52**	**0.071**	ug/L	0.035	48	18596	19499	4	Standard
|	**Cr**	**53**	**0.082**	ug/L	0.001	1	133	307	3	Standard
⌊	**Mn**	**55**	**0.419**	ug/L	0.004	1	801	12045	5	Standard
⌈>	**Ge**	**72**		ug/L			24444	23777	1	KED
|	**Ni**	**60**	**-0.035**	ug/L	0.005	13	86	46	11	KED
|	**Ni**	**62**	**-0.016**	ug/L	0.022	136	16	13	28	KED
|	**Cu**	**63**	**0.424**	ug/L	0.025	5	67	1408	6	KED
|	**Cu**	**65**	**0.439**	ug/L	0.026	5	42	727	4	KED
|	**Zn**	**66**	**57.739**	ug/L	2.119	3	67	24303	2	KED
|	**Zn**	**67**	**51.530**	ug/L	1.622	3	11	3706	3	KED
⌊	**As**	**75**	**0.044**	ug/L	0.020	44	6	15	25	KED
	Y	**89**		ug/L			230853	225384	4	Standard
	Kr	**83**		ug/L			65	45	15	Standard
⌈>	**In-1**	**115**		ug/L			6387	6319	0	KED
|	**Cd**	**111**	**0.103**	ug/L	0.011	10	5	28	8	KED
⌊	**Cd**	**114**	**0.170**	ug/L	0.019	10	2	96	10	KED
⌈>	**Tb**	**159**		ug/L			540555	530176	5	Standard
⌊	**Pb**	**208**	**0.027**	ug/L	0.001	4	256	1418	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:46:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33771	3	Standard
	Cl	**37**		ug/L			3578521	3526406	3	Standard
⌈>	**Sc**	**45**		ug/L			476701	447002	1	Standard
|	**Cr**	**52**	**0.010**	ug/L	0.022	214	18596	17617	0	Standard
|	**Cr**	**53**	**0.008**	ug/L	0.000	4	133	142	1	Standard
⌊	**Mn**	**55**	**-0.008**	ug/L	0.000	5	801	558	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23310	1	KED
|	**Ni**	**60**	**-0.066**	ug/L	0.002	2	86	13	14	KED
|	**Ni**	**62**	**-0.070**	ug/L	0.011	16	16	3	50	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.002	30	67	42	15	KED
|	**Cu**	**65**	**-0.017**	ug/L	0.005	29	42	13	55	KED
|	**Zn**	**66**	**-0.080**	ug/L	0.019	23	67	31	24	KED
|	**Zn**	**67**	**-0.056**	ug/L	0.015	27	11	6	15	KED
⌊	**As**	**75**	**0.004**	ug/L	0.004	100	6	7	11	KED
	Y	**89**		ug/L			230853	216880	3	Standard
	Kr	**83**		ug/L			65	54	24	Standard
⌈>	**In-1**	**115**		ug/L			6387	6437	1	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.000	1	5	2	0	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.003	57	2	5	33	KED
⌈>	**Tb**	**159**		ug/L			540555	514991	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	36	256	182	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:51:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	31671	0	Standard
	Cl	**37**		ug/L			3578521	3735267	2	Standard
⎡>	**Sc**	**45**		ug/L			476701	451697	0	Standard
⎢	**Cr**	**52**	**49.270**	ug/L	1.157	2	18596	904130	2	Standard
⎢	**Cr**	**53**	**49.738**	ug/L	0.169	0	133	104529	1	Standard
⎣	**Mn**	**55**	**50.464**	ug/L	0.445	0	801	1315691	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	23403	1	KED
⎢	**Ni**	**60**	**49.983**	ug/L	1.151	2	86	52338	2	KED
⎢	**Ni**	**62**	**49.539**	ug/L	0.997	2	16	8506	1	KED
⎢	**Cu**	**63**	**48.754**	ug/L	1.515	3	67	151947	1	KED
⎢	**Cu**	**65**	**49.050**	ug/L	0.947	1	42	75517	1	KED
⎢	**Zn**	**66**	**50.197**	ug/L	1.427	2	67	20804	1	KED
⎢	**Zn**	**67**	**49.599**	ug/L	0.379	0	11	3512	1	KED
⎣	**As**	**75**	**49.586**	ug/L	0.877	1	6	10345	1	KED
	Y	**89**		ug/L			230853	223742	0	Standard
	Kr	**83**		ug/L			65	54	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6419	1	KED
⎢	**Cd**	**111**	**49.647**	ug/L	0.891	1	5	11551	1	KED
⎣	**Cd**	**114**	**50.339**	ug/L	0.757	1	2	28440	1	KED
⎡>	**Tb**	**159**		ug/L			540555	523439	4	Standard
⎣	**Pb**	**208**	**51.000**	ug/L	1.813	3	256	2216343	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:59:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32521	4	Standard
	Cl	**37**		ug/L			3578521	3548973	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	448574	1	Standard
⎢	**Cr**	**52**	**0.014**	ug/L	0.007	49	18596	17744	1	Standard
⎢	**Cr**	**53**	**0.001**	ug/L	0.005	711	133	126	9	Standard
⎣	**Mn**	**55**	**-0.004**	ug/L	0.002	49	801	656	6	Standard
⎡>	**Ge**	**72**		ug/L			24444	24308	1	KED
⎢	**Ni**	**60**	**0.013**	ug/L	0.016	120	86	100	18	KED
⎢	**Ni**	**62**	**-0.004**	ug/L	0.043	1205	16	15	49	KED
⎢	**Cu**	**63**	**-0.005**	ug/L	0.003	56	67	50	20	KED
⎢	**Cu**	**65**	**-0.015**	ug/L	0.006	37	42	18	47	KED
⎢	**Zn**	**66**	**0.015**	ug/L	0.022	142	67	73	14	KED
⎢	**Zn**	**67**	**-0.043**	ug/L	0.013	30	11	8	13	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.008	1396	6	6	25	KED
	Y	**89**		ug/L			230853	219778	2	Standard
	Kr	**83**		ug/L			65	47	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6729	2	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.004	28	5	1	50	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.002	62	2	0	224	KED
⎡>	**Tb**	**159**		ug/L			540555	518077	4	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	54	256	219	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:06:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	39209	2	Standard
	Cl	37		ug/L			3578521	3528331	1	Standard
>	Sc	45		ug/L			476701	448579	2	Standard
	Cr	52	0.275	ug/L	0.033	11	18596	22415	3	Standard
	Cr	53	0.248	ug/L	0.016	6	133	641	5	Standard
	Mn	55	0.311	ug/L	0.006	2	801	8803	2	Standard
>	Ge	72		ug/L			24444	23782	0	KED
	Ni	60	-0.062	ug/L	0.012	19	86	18	68	KED
	Ni	62	-0.070	ug/L	0.000	0	16	3	0	KED
	Cu	63	0.012	ug/L	0.002	13	67	104	4	KED
	Cu	65	0.004	ug/L	0.004	82	42	48	12	KED
	Zn	66	0.394	ug/L	0.040	10	67	231	7	KED
	Zn	67	0.332	ug/L	0.146	44	11	34	30	KED
	As	75	0.005	ug/L	0.010	192	6	7	28	KED
	Y	89		ug/L			230853	221360	2	Standard
	Kr	83		ug/L			65	42	6	Standard
>	In-1	115		ug/L			6387	6672	1	KED
	Cd	111	-0.015	ug/L	0.004	28	5	1	69	KED
	Cd	114	0.002	ug/L	0.003	195	2	3	56	KED
>	Tb	159		ug/L			540555	517458	3	Standard
	Pb	208	0.001	ug/L	0.000	30	256	269	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:10:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	42130	1	Standard
	Cl	37		ug/L			3578521	3799089	1	Standard
>	Sc	45		ug/L			476701	469683	3	Standard
	Cr	52	25.810	ug/L	0.522	2	18596	501122	3	Standard
	Cr	53	25.728	ug/L	0.279	1	133	56291	4	Standard
	Mn	55	26.271	ug/L	0.102	0	801	712608	3	Standard
>	Ge	72		ug/L			24444	23159	0	KED
	Ni	60	26.840	ug/L	0.383	1	86	27849	1	KED
	Ni	62	25.964	ug/L	0.743	2	16	4420	3	KED
	Cu	63	25.595	ug/L	0.865	3	67	78981	2	KED
	Cu	65	26.199	ug/L	0.371	1	42	39936	0	KED
	Zn	66	88.484	ug/L	1.498	1	67	36256	2	KED
	Zn	67	80.444	ug/L	0.941	1	11	5629	0	KED
	As	75	25.560	ug/L	0.154	0	6	5280	0	KED
	Y	89		ug/L			230853	229560	2	Standard
	Kr	83		ug/L			65	53	14	Standard
>	In-1	115		ug/L			6387	6571	3	KED
	Cd	111	25.362	ug/L	0.860	3	5	6040	1	KED
	Cd	114	25.591	ug/L	0.979	3	2	14792	0	KED
>	Tb	159		ug/L			540555	547406	3	Standard
	Pb	208	26.145	ug/L	0.822	3	256	1188596	0	Standard

BLA0192

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~BLA0197~~-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:14:54

MB 1/9/23

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41552	2	Standard
	Cl	**37**		ug/L			3578521	3541733	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	442805	0	Standard
|	**Cr**	**52**	**0.112**	ug/L	0.011	9	18596	19252	1	Standard
|	**Cr**	**53**	**0.064**	ug/L	0.008	13	133	256	6	Standard
⌊	**Mn**	**55**	**0.255**	ug/L	0.004	1	801	7246	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23525	0	KED
|	**Ni**	**60**	**-0.062**	ug/L	0.007	12	86	18	41	KED
|	**Ni**	**62**	**-0.067**	ug/L	0.028	41	16	4	107	KED
|	**Cu**	**63**	**0.020**	ug/L	0.005	24	67	128	12	KED
|	**Cu**	**65**	**0.010**	ug/L	0.008	80	42	55	21	KED
|	**Zn**	**66**	**0.354**	ug/L	0.082	23	67	212	16	KED
|	**Zn**	**67**	**0.356**	ug/L	0.207	58	11	36	39	KED
⌊	**As**	**75**	**0.014**	ug/L	0.013	89	6	9	28	KED
	Y	**89**		ug/L			230853	217530	3	Standard
	Kr	**83**		ug/L			65	43	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6417	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.004	30	5	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	266	2	2	35	KED
⌈>	**Tb**	**159**		ug/L			540555	506188	4	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	14	256	370	7	Standard

BLA0192

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~BLA0197~~-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:19:16

MB 1/9/23

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41327	2	Standard
	Cl	**37**		ug/L			3578521	3591995	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	447825	2	Standard
|	**Cr**	**52**	**25.477**	ug/L	0.581	2	18596	471780	1	Standard
|	**Cr**	**53**	**25.000**	ug/L	0.317	1	133	52141	1	Standard
⌊	**Mn**	**55**	**25.902**	ug/L	0.729	2	801	669814	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23216	1	KED
|	**Ni**	**60**	**25.895**	ug/L	0.592	2	86	26933	1	KED
|	**Ni**	**62**	**25.597**	ug/L	0.549	2	16	4367	0	KED
|	**Cu**	**63**	**25.953**	ug/L	0.718	2	67	80280	1	KED
|	**Cu**	**65**	**26.341**	ug/L	1.148	4	42	40236	2	KED
|	**Zn**	**66**	**84.556**	ug/L	1.267	1	67	34729	1	KED
|	**Zn**	**67**	**77.096**	ug/L	0.585	0	11	5409	2	KED
⌊	**As**	**75**	**25.243**	ug/L	0.242	0	6	5228	1	KED
	Y	**89**		ug/L			230853	218917	2	Standard
	Kr	**83**		ug/L			65	53	37	Standard
⌈>	**In-1**	**115**		ug/L			6387	6535	2	KED
|	**Cd**	**111**	**25.386**	ug/L	0.620	2	5	6013	1	KED
⌊	**Cd**	**114**	**25.184**	ug/L	0.843	3	2	14481	2	KED
⌈>	**Tb**	**159**		ug/L			540555	513669	5	Standard
⌊	**Pb**	**208**	**26.686**	ug/L	1.146	4	256	1137609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0066-01RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 17:23:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	128320	2	Standard
	Cl	**37**		ug/L			3578521	3899699	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	471371	1	Standard
|	**Cr**	**52**	**1.942**	ug/L	0.077	3	18596	54862	3	Standard
|	**Cr**	**53**	**1.683**	ug/L	0.014	0	133	3819	2	Standard
⌊	**Mn**	**55**	**4.635**	ug/L	0.121	2	801	126852	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	22635	0	KED
|	**Ni**	**60**	**1.911**	ug/L	0.046	2	86	2012	2	KED
|	**Ni**	**62**	**1.892**	ug/L	0.136	7	16	328	6	KED
|	**Cu**	**63**	**0.109**	ug/L	0.007	6	67	389	4	KED
|	**Cu**	**65**	**0.096**	ug/L	0.021	21	42	182	17	KED
|	**Zn**	**66**	**2.203**	ug/L	0.080	3	67	942	3	KED
|	**Zn**	**67**	**1.778**	ug/L	0.239	13	11	132	13	KED
⌊	**As**	**75**	**0.061**	ug/L	0.013	21	6	18	14	KED
	Y	**89**		ug/L			230853	228937	4	Standard
	Kr	**83**		ug/L			65	53	13	Standard
⌈>	**In-1**	**115**		ug/L			6387	6449	1	KED
|	**Cd**	**111**	**0.021**	ug/L	0.015	68	5	10	35	KED
⌊	**Cd**	**114**	**0.026**	ug/L	0.005	17	2	17	15	KED
⌈>	**Tb**	**159**		ug/L			540555	543167	2	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.003	10	256	1450	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0137-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 17:28:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	96191	1	Standard
	Cl	37		ug/L			3578521	3946369	1	Standard
⌈>	Sc	45		ug/L			476701	453601	2	Standard
|	Cr	52	1.686	ug/L	0.011	0	18596	48165	2	Standard
|	Cr	53	1.482	ug/L	0.026	1	133	3249	1	Standard
⌊	Mn	55	13.578	ug/L	0.114	0	801	356016	1	Standard
⌈>	Ge	72		ug/L			24444	22388	1	KED
|	Ni	60	3.108	ug/L	0.106	3	86	3187	2	KED
|	Ni	62	2.909	ug/L	0.116	3	16	492	2	KED
|	Cu	63	0.069	ug/L	0.006	9	67	269	8	KED
|	Cu	65	0.058	ug/L	0.021	36	42	123	24	KED
|	Zn	66	2.525	ug/L	0.109	4	67	1059	3	KED
|	Zn	67	2.272	ug/L	0.159	6	11	163	5	KED
⌊	As	75	0.071	ug/L	0.015	20	6	20	13	KED
	Y	89		ug/L			230853	219523	2	Standard
	Kr	83		ug/L			65	66	20	Standard
⌈>	In-1	115		ug/L			6387	6311	1	KED
|	Cd	111	-0.004	ug/L	0.010	258	5	4	58	KED
⌊	Cd	114	0.020	ug/L	0.008	39	2	13	33	KED
⌈>	Tb	159		ug/L			540555	521367	4	Standard
⌊	Pb	208	0.016	ug/L	0.001	8	256	921	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0116-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 17:35:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	42286	1	Standard
	Cl	37		ug/L			3578521	6769644	5	Standard
⌈>	Sc	45		ug/L			476701	455103	2	Standard
|	Cr	52	9.415	ug/L	0.110	1	18596	188397	1	Standard
|	Cr	53	13.672	ug/L	0.254	1	133	29035	0	Standard
⌊	Mn	55	2.705	ug/L	0.011	0	801	71786	1	Standard
⌈>	Ge	72		ug/L			24444	22687	1	KED
|	Ni	60	1.130	ug/L	0.013	1	86	1225	1	KED
|	Ni	62	1.199	ug/L	0.101	8	16	214	8	KED
|	Cu	63	12.837	ug/L	0.290	2	67	38843	2	KED
|	Cu	65	13.081	ug/L	0.273	2	42	19556	2	KED
|	Zn	66	15.132	ug/L	0.450	2	67	6125	2	KED
|	Zn	67	13.574	ug/L	0.531	3	11	939	4	KED
⌊	As	75	0.177	ug/L	0.018	9	6	42	9	KED
	Y	89		ug/L			230853	218368	2	Standard
	Kr	83		ug/L			65	53	18	Standard
⌈>	In-1	115		ug/L			6387	6402	2	KED
|	Cd	111	0.077	ug/L	0.039	51	5	22	39	KED
⌊	Cd	114	0.091	ug/L	0.011	12	2	53	11	KED
⌈>	Tb	159		ug/L			540555	525642	3	Standard
⌊	Pb	208	0.223	ug/L	0.005	2	256	9982	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-43
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 17:40:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	66452	3	Standard
	Cl	37		ug/L			3578521	3763365	0	Standard
>	Sc	45		ug/L			476701	611241	2	Standard
	Cr	52	16.933	ug/L	0.258	1	18596	435999	0	Standard
	Cr	53	17.179	ug/L	0.589	3	133	48939	1	Standard
	Mn	55	127.440	ug/L	2.565	2	801	4493412	0	Standard
>	Ge	72		ug/L			24444	23695	0	KED
	Ni	60	16.170	ug/L	0.085	0	86	17200	0	KED
	Ni	62	16.034	ug/L	0.534	3	16	2798	2	KED
	Cu	63	27.746	ug/L	0.719	2	67	87600	1	KED
	Cu	65	28.337	ug/L	0.119	0	42	44195	0	KED
	Zn	66	73.163	ug/L	1.042	1	67	30679	0	KED
	Zn	67	69.432	ug/L	1.436	2	11	4974	3	KED
	As	75	6.161	ug/L	0.063	1	6	1307	1	KED
	Y	89		ug/L			230853	479642	1	Standard
	Kr	83		ug/L			65	123	8	Standard
>	In-1	115		ug/L			6387	6451	2	KED
	Cd	111	0.462	ug/L	0.073	15	5	113	16	KED
	Cd	114	0.505	ug/L	0.062	12	2	288	9	KED
>	Tb	159		ug/L			540555	565155	2	Standard
	Pb	208	27.443	ug/L	0.865	3	256	1288329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-44
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 17:45:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	69320	1	Standard
	Cl	37		ug/L			3578521	3768320	1	Standard
>	Sc	45		ug/L			476701	617526	2	Standard
	Cr	52	18.193	ug/L	0.813	4	18596	471175	1	Standard
	Cr	53	18.077	ug/L	0.316	1	133	52029	1	Standard
	Mn	55	152.752	ug/L	4.505	2	801	5439600	0	Standard
>	Ge	72		ug/L			24444	23382	2	KED
	Ni	60	16.185	ug/L	0.422	2	86	16982	0	KED
	Ni	62	15.897	ug/L	0.602	3	16	2737	2	KED
	Cu	63	31.055	ug/L	0.883	2	67	96720	1	KED
	Cu	65	30.788	ug/L	0.597	1	42	47367	0	KED
	Zn	66	82.110	ug/L	1.153	1	67	33964	0	KED
	Zn	67	79.507	ug/L	1.505	1	11	5617	2	KED
	As	75	7.629	ug/L	0.257	3	6	1595	1	KED
	Y	89		ug/L			230853	495011	1	Standard
	Kr	83		ug/L			65	163	13	Standard
>	In-1	115		ug/L			6387	6401	3	KED
	Cd	111	0.698	ug/L	0.078	11	5	166	8	KED
	Cd	114	0.684	ug/L	0.028	4	2	387	4	KED
>	Tb	159		ug/L			540555	566643	2	Standard
	Pb	208	31.706	ug/L	0.515	1	256	1492807	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:49:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34163	0	Standard
	Cl	**37**		ug/L			3578521	3515432	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	450842	1	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.023	920	18596	17537	0	Standard
⎢	**Cr**	**53**	**0.022**	ug/L	0.005	22	133	173	4	Standard
⎣	**Mn**	**55**	**-0.006**	ug/L	0.001	9	801	608	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23839	1	KED
⎢	**Ni**	**60**	**-0.068**	ug/L	0.003	5	86	11	33	KED
⎢	**Ni**	**62**	**-0.081**	ug/L	0.000	0	16	1		KED
⎢	**Cu**	**63**	**-0.009**	ug/L	0.002	25	67	38	17	KED
⎢	**Cu**	**65**	**-0.016**	ug/L	0.005	29	42	16	46	KED
⎢	**Zn**	**66**	**-0.077**	ug/L	0.015	19	67	33	18	KED
⎢	**Zn**	**67**	**-0.066**	ug/L	0.042	62	11	6	45	KED
⎣	**As**	**75**	**0.003**	ug/L	0.008	255	6	7	23	KED
	Y	**89**		ug/L			230853	217262	0	Standard
	Kr	**83**		ug/L			65	62	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6522	1	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.009	75	5	2	98	KED
⎣	**Cd**	**114**	**0.005**	ug/L	0.003	64	2	5	35	KED
⎡>	**Tb**	**159**		ug/L			540555	513292	4	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.001	258	256	253	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:54:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34194	1	Standard
	Cl	**37**		ug/L			3578521	3833938	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	446495	6	Standard
|	**Cr**	**52**	**51.567**	ug/L	3.317	6	18596	932054	0	Standard
|	**Cr**	**53**	**51.414**	ug/L	3.131	6	133	106540	1	Standard
⌊	**Mn**	**55**	**52.127**	ug/L	3.076	5	801	1340471	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23571	0	KED
|	**Ni**	**60**	**50.219**	ug/L	1.180	2	86	52961	1	KED
|	**Ni**	**62**	**48.372**	ug/L	0.939	1	16	8366	1	KED
|	**Cu**	**63**	**48.438**	ug/L	0.151	0	67	152102	0	KED
|	**Cu**	**65**	**49.305**	ug/L	1.738	3	42	76453	2	KED
|	**Zn**	**66**	**49.398**	ug/L	1.088	2	67	20626	1	KED
|	**Zn**	**67**	**48.694**	ug/L	2.729	5	11	3472	4	KED
⌊	**As**	**75**	**49.088**	ug/L	0.913	1	6	10316	1	KED
	Y	**89**		ug/L			230853	223167	6	Standard
	Kr	**83**		ug/L			65	59	14	Standard
⌈>	**In-1**	**115**		ug/L			6387	6401	1	KED
|	**Cd**	**111**	**50.253**	ug/L	0.858	1	5	11658	0	KED
⌊	**Cd**	**114**	**50.336**	ug/L	1.378	2	2	28352	0	KED
⌈>	**Tb**	**159**		ug/L			540555	526560	6	Standard
⌊	**Pb**	**208**	**51.699**	ug/L	3.626	7	256	2256037	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:01:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32578	3	Standard
	Cl	**37**		ug/L			3578521	3603989	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	439943	1	Standard
⎢	**Cr**	**52**	**0.040**	ug/L	0.020	49	18596	17864	2	Standard
⎢	**Cr**	**53**	**0.016**	ug/L	0.006	34	133	156	8	Standard
⎣	**Mn**	**55**	**-0.004**	ug/L	0.001	21	801	649	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23232	0	KED
⎢	**Ni**	**60**	**0.001**	ug/L	0.007	652	86	83	9	KED
⎢	**Ni**	**62**	**-0.021**	ug/L	0.045	208	16	12	63	KED
⎢	**Cu**	**63**	**-0.004**	ug/L	0.003	89	67	53	17	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.006	161	42	34	27	KED
⎢	**Zn**	**66**	**0.007**	ug/L	0.006	91	67	66	2	KED
⎢	**Zn**	**67**	**0.036**	ug/L	0.056	157	11	13	28	KED
⎣	**As**	**75**	**-0.002**	ug/L	0.007	298	6	5	24	KED
	Y	**89**		ug/L			230853	221338	3	Standard
	Kr	**83**		ug/L			65	48	35	Standard
⎡>	**In-1**	**115**		ug/L			6387	6543	3	KED
⎢	**Cd**	**111**	**-0.015**	ug/L	0.005	30	5	1	69	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.002	82	2	1	90	KED
⎡>	**Tb**	**159**		ug/L			540555	508567	4	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	12	256	212	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:07:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	39642	2	Standard
	Cl	37		ug/L			3578521	3539808	2	Standard
>	Sc	45		ug/L			476701	451725	2	Standard
	Cr	52	0.044	ug/L	0.030	68	18596	18413	2	Standard
	Cr	53	0.040	ug/L	0.005	11	133	211	6	Standard
	Mn	55	0.253	ug/L	0.007	2	801	7340	3	Standard
>	Ge	72		ug/L			24444	23246	1	KED
	Ni	60	-0.057	ug/L	0.003	5	86	22	14	KED
	Ni	62	-0.085	ug/L	0.006	7	16	1	86	KED
	Cu	63	0.009	ug/L	0.006	68	67	91	19	KED
	Cu	65	0.004	ug/L	0.007	167	42	46	22	KED
	Zn	66	0.356	ug/L	0.026	7	67	210	6	KED
	Zn	67	0.542	ug/L	0.120	22	11	48	17	KED
	As	75	0.006	ug/L	0.016	283	6	7	42	KED
	Y	89		ug/L			230853	222484	3	Standard
	Kr	83		ug/L			65	52	27	Standard
>	In-1	115		ug/L			6387	6683	5	KED
	Cd	111	-0.011	ug/L	0.005	42	5	2	43	KED
	Cd	114	0.005	ug/L	0.006	122	2	5	63	KED
>	Tb	159		ug/L			540555	518735	4	Standard
	Pb	208	0.000	ug/L	0.001	783	256	249	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:11:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	41334	0	Standard
	Cl	37		ug/L			3578521	3805467	1	Standard
⌈>	Sc	45		ug/L			476701	454853	1	Standard
|	Cr	52	25.874	ug/L	0.169	0	18596	486479	0	Standard
|	Cr	53	25.719	ug/L	0.453	1	133	54478	0	Standard
⌊	Mn	55	26.421	ug/L	0.669	2	801	693883	0	Standard
⌈>	Ge	72		ug/L			24444	23571	1	KED
|	Ni	60	25.897	ug/L	0.541	2	86	27348	1	KED
|	Ni	62	25.724	ug/L	1.192	4	16	4454	2	KED
|	Cu	63	25.508	ug/L	0.759	2	67	80106	1	KED
|	Cu	65	25.690	ug/L	1.346	5	42	39835	3	KED
|	Zn	66	83.757	ug/L	1.000	1	67	34926	0	KED
|	Zn	67	77.185	ug/L	2.084	2	11	5496	1	KED
⌊	As	75	25.316	ug/L	0.740	2	6	5321	0	KED
	Y	89		ug/L			230853	224136	1	Standard
	Kr	83		ug/L			65	53	18	Standard
⌈>	In-1	115		ug/L			6387	6641	2	KED
|	Cd	111	25.310	ug/L	0.517	2	5	6093	0	KED
⌊	Cd	114	25.441	ug/L	0.821	3	2	14868	2	KED
⌈>	Tb	159		ug/L			540555	529839	2	Standard
⌊	Pb	208	26.424	ug/L	0.536	2	256	1163265	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:18:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	52120	2	Standard
	Cl	37		ug/L			3578521	3717556	1	Standard
>	Sc	45		ug/L			476701	458766	2	Standard
	Cr	52	5.196	ug/L	0.082	1	18596	112821	1	Standard
	Cr	53	5.211	ug/L	0.044	0	133	11239	3	Standard
	Mn	55	50.704	ug/L	1.097	2	801	1342296	0	Standard
>	Ge	72		ug/L			24444	21598	1	KED
	Ni	60	0.420	ug/L	0.011	2	86	481	3	KED
	Ni	62	0.514	ug/L	0.098	19	16	95	16	KED
	Cu	63	6.687	ug/L	0.128	1	67	19289	0	KED
	Cu	65	6.865	ug/L	0.168	2	42	9788	2	KED
	Zn	66	2.268	ug/L	0.018	0	67	924	1	KED
	Zn	67	2.464	ug/L	0.429	17	11	170	17	KED
	As	75	0.075	ug/L	0.016	21	6	20	16	KED
	Y	89		ug/L			230853	219630	1	Standard
	Kr	83		ug/L			65	49	30	Standard
>	In-1	115		ug/L			6387	6088	2	KED
	Cd	111	-0.002	ug/L	0.003	164	5	4	12	KED
	Cd	114	-0.001	ug/L	0.004	253	2	1	125	KED
>	Tb	159		ug/L			540555	514211	3	Standard
	Pb	208	0.007	ug/L	0.001	13	256	543	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:22:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	49679	0	Standard
	Cl	37		ug/L			3578521	3628783	1	Standard
>	Sc	45		ug/L			476701	449656	1	Standard
	Cr	52	5.723	ug/L	0.097	1	18596	120038	1	Standard
	Cr	53	5.631	ug/L	0.063	1	133	11890	0	Standard
	Mn	55	39.052	ug/L	0.281	0	801	1013747	1	Standard
>	Ge	72		ug/L			24444	21432	1	KED
	Ni	60	0.419	ug/L	0.022	5	86	476	2	KED
	Ni	62	0.373	ug/L	0.007	1	16	73	3	KED
	Cu	63	6.740	ug/L	0.137	2	67	19299	3	KED
	Cu	65	6.888	ug/L	0.127	1	42	9743	1	KED
	Zn	66	2.619	ug/L	0.064	2	67	1050	1	KED
	Zn	67	2.686	ug/L	0.213	7	11	183	5	KED
	As	75	0.087	ug/L	0.030	34	6	22	25	KED
	Y	89		ug/L			230853	220785	0	Standard
	Kr	83		ug/L			65	53	21	Standard
>	In-1	115		ug/L			6387	6043	2	KED
	Cd	111	-0.004	ug/L	0.008	180	5	3	43	KED
	Cd	114	0.009	ug/L	0.010	103	2	7	71	KED
>	Tb	159		ug/L			540555	520913	3	Standard
	Pb	208	0.006	ug/L	0.000	5	256	500	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:27:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	48101	1	Standard
	Cl	37		ug/L			3578521	3726634	1	Standard
>	Sc	45		ug/L			476701	473626	3	Standard
	Cr	52	3.205	ug/L	0.017	0	18596	78947	3	Standard
	Cr	53	3.220	ug/L	0.032	0	133	7217	2	Standard
	Mn	55	23.513	ug/L	0.521	2	801	643057	2	Standard
>	Ge	72		ug/L			24444	21959	1	KED
	Ni	60	0.282	ug/L	0.013	4	86	354	3	KED
	Ni	62	0.288	ug/L	0.115	39	16	60	28	KED
	Cu	63	4.808	ug/L	0.042	0	67	14118	1	KED
	Cu	65	4.893	ug/L	0.053	1	42	7103	1	KED
	Zn	66	1.526	ug/L	0.053	3	67	652	2	KED
	Zn	67	1.503	ug/L	0.053	3	11	109	3	KED
	As	75	0.057	ug/L	0.016	27	6	17	16	KED
	Y	89		ug/L			230853	230023	2	Standard
	Kr	83		ug/L			65	63	9	Standard
>	In-1	115		ug/L			6387	6063	0	KED
	Cd	111	-0.003	ug/L	0.014	439	5	4	74	KED
	Cd	114	0.003	ug/L	0.008	251	2	3	109	KED
>	Tb	159		ug/L			540555	538690	5	Standard
	Pb	208	0.005	ug/L	0.000	4	256	490	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:31:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	45359	1	Standard
	Cl	37		ug/L			3578521	3645273	1	Standard
>	Sc	45		ug/L			476701	456507	2	Standard
	Cr	52	10.658	ug/L	0.237	2	18596	211542	0	Standard
	Cr	53	10.722	ug/L	0.233	2	133	22865	0	Standard
	Mn	55	18.150	ug/L	0.368	2	801	478593	0	Standard
>	Ge	72		ug/L			24444	23223	0	KED
	Ni	60	0.231	ug/L	0.033	14	86	321	10	KED
	Ni	62	0.288	ug/L	0.049	17	16	64	13	KED
	Cu	63	4.304	ug/L	0.056	1	67	13375	1	KED
	Cu	65	4.326	ug/L	0.052	1	42	6646	0	KED
	Zn	66	1.728	ug/L	0.105	6	67	772	5	KED
	Zn	67	1.558	ug/L	0.144	9	11	120	8	KED
	As	75	0.082	ug/L	0.020	23	6	23	17	KED
	Y	89		ug/L			230853	219292	1	Standard
	Kr	83		ug/L			65	55	29	Standard
>	In-1	115		ug/L			6387	6323	3	KED
	Cd	111	0.000	ug/L	0.017	83528	5	5	78	KED
	Cd	114	0.003	ug/L	0.008	286	2	3	114	KED
>	Tb	159		ug/L			540555	531283	4	Standard
	Pb	208	0.015	ug/L	0.002	13	256	913	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-45
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:36:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	70058	0	Standard
	Cl	37		ug/L			3578521	3637459	1	Standard
>	Sc	45		ug/L			476701	635528	1	Standard
	Cr	52	17.392	ug/L	0.227	1	18596	465010	1	Standard
	Cr	53	17.623	ug/L	0.483	2	133	52208	1	Standard
	Mn	55	160.671	ug/L	2.032	1	801	5890866	0	Standard
>	Ge	72		ug/L			24444	23859	0	KED
	Ni	60	16.352	ug/L	0.237	1	86	17514	1	KED
	Ni	62	16.461	ug/L	0.326	1	16	2892	2	KED
	Cu	63	33.327	ug/L	0.431	1	67	105954	1	KED
	Cu	65	33.695	ug/L	0.413	1	42	52909	1	KED
	Zn	66	86.654	ug/L	0.617	0	67	36579	0	KED
	Zn	67	83.844	ug/L	1.749	2	11	6045	1	KED
	As	75	8.322	ug/L	0.033	0	6	1775	0	KED
	Y	89		ug/L			230853	521221	2	Standard
	Kr	83		ug/L			65	161	11	Standard
>	In-1	115		ug/L			6387	6607	1	KED
	Cd	111	0.659	ug/L	0.055	8	5	162	7	KED
	Cd	114	0.635	ug/L	0.046	7	2	371	7	KED
>	Tb	159		ug/L			540555	564800	3	Standard
	Pb	208	34.919	ug/L	1.034	2	256	1638220	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-46
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:41:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	59212	1	Standard
	Cl	**37**		ug/L			3578521	3584051	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	515810	1	Standard
|	**Cr**	**52**	**7.975**	ug/L	0.135	1	18596	183951	1	Standard
|	**Cr**	**53**	**8.019**	ug/L	0.009	0	133	19366	1	Standard
⌊	**Mn**	**55**	**95.320**	ug/L	1.296	1	801	2836800	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	24090	2	KED
|	**Ni**	**60**	**7.584**	ug/L	0.251	3	86	8243	1	KED
|	**Ni**	**62**	**7.343**	ug/L	0.132	1	16	1311	1	KED
|	**Cu**	**63**	**8.569**	ug/L	0.255	2	67	27547	1	KED
|	**Cu**	**65**	**8.679**	ug/L	0.320	3	42	13786	2	KED
|	**Zn**	**66**	**21.916**	ug/L	0.540	2	67	9389	2	KED
|	**Zn**	**67**	**21.562**	ug/L	0.469	2	11	1578	4	KED
⌊	**As**	**75**	**1.961**	ug/L	0.094	4	6	427	3	KED
	Y	**89**		ug/L			230853	373430	1	Standard
	Kr	**83**		ug/L			65	94	6	Standard
⌈>	**In-1**	**115**		ug/L			6387	6941	1	KED
|	**Cd**	**111**	**0.021**	ug/L	0.009	41	5	10	20	KED
⌊	**Cd**	**114**	**0.017**	ug/L	0.002	11	2	13	8	KED
⌈>	**Tb**	**159**		ug/L			540555	549187	3	Standard
⌊	**Pb**	**208**	**1.732**	ug/L	0.047	2	256	79268	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-47
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:45:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	63904	3	Standard
	Cl	**37**		ug/L			3578521	3613111	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	550867	2	Standard
|	**Cr**	**52**	**10.244**	ug/L	0.277	2	18596	246160	0	Standard
|	**Cr**	**53**	**10.394**	ug/L	0.194	1	133	26755	1	Standard
⌊	**Mn**	**55**	**120.380**	ug/L	2.215	1	801	3825738	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23807	1	KED
|	**Ni**	**60**	**10.450**	ug/L	0.390	3	86	11195	3	KED
|	**Ni**	**62**	**10.383**	ug/L	0.366	3	16	1826	2	KED
|	**Cu**	**63**	**14.395**	ug/L	0.288	1	67	45696	1	KED
|	**Cu**	**65**	**14.764**	ug/L	0.348	2	42	23152	2	KED
|	**Zn**	**66**	**31.439**	ug/L	0.047	0	67	13283	1	KED
|	**Zn**	**67**	**32.124**	ug/L	1.023	3	11	2317	1	KED
⌊	**As**	**75**	**3.101**	ug/L	0.137	4	6	664	4	KED
	Y	**89**		ug/L			230853	436727	1	Standard
	Kr	**83**		ug/L			65	113	8	Standard
⌈>	**In-1**	**115**		ug/L			6387	6507	3	KED
|	**Cd**	**111**	**0.060**	ug/L	0.014	23	5	19	20	KED
⌊	**Cd**	**114**	**0.066**	ug/L	0.015	23	2	39	19	KED
⌈>	**Tb**	**159**		ug/L			540555	553912	2	Standard
⌊	**Pb**	**208**	**3.949**	ug/L	0.116	2	256	181927	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:49:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34318	2	Standard
	Cl	**37**		ug/L			3578521	3409550	3	Standard
⌈>	**Sc**	**45**		ug/L			476701	432607	4	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.018	193	18596	17031	3	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.005	58	133	105	12	Standard
⌊	**Mn**	**55**	**-0.005**	ug/L	0.002	37	801	601	11	Standard
⌈>	**Ge**	**72**		ug/L			24444	23146	2	KED
|	**Ni**	**60**	**-0.072**	ug/L	0.003	3	86	6	41	KED
|	**Ni**	**62**	**-0.055**	ug/L	0.006	11	16	6	17	KED
|	**Cu**	**63**	**-0.009**	ug/L	0.004	49	67	38	36	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.005	50	42	25	31	KED
|	**Zn**	**66**	**-0.060**	ug/L	0.005	7	67	39	5	KED
|	**Zn**	**67**	**-0.056**	ug/L	0.055	99	11	6	56	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	277	6	6	7	KED
	Y	**89**		ug/L			230853	214375	3	Standard
	Kr	**83**		ug/L			65	47	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6502	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.004	29	5	1	50	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	3546	2	2	51	KED
⌈>	**Tb**	**159**		ug/L			540555	506379	4	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	58	256	203	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:54:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32517	1	Standard
	Cl	**37**		ug/L			3578521	3662022	2	Standard
⎡>	**Sc**	**45**		ug/L			476701	446496	1	Standard
⎢	**Cr**	**52**	**49.851**	ug/L	0.660	1	18596	904026	2	Standard
⎢	**Cr**	**53**	**50.064**	ug/L	0.356	0	133	103994	0	Standard
⎣	**Mn**	**55**	**50.804**	ug/L	0.221	0	801	1309319	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23908	1	KED
⎢	**Ni**	**60**	**49.752**	ug/L	0.225	0	86	53223	0	KED
⎢	**Ni**	**62**	**48.525**	ug/L	0.989	2	16	8513	0	KED
⎢	**Cu**	**63**	**49.312**	ug/L	0.891	1	67	157066	2	KED
⎢	**Cu**	**65**	**49.737**	ug/L	0.837	1	42	78237	1	KED
⎢	**Zn**	**66**	**49.992**	ug/L	0.544	1	67	21175	2	KED
⎢	**Zn**	**67**	**48.552**	ug/L	1.196	2	11	3512	3	KED
⎣	**As**	**75**	**49.436**	ug/L	1.091	2	6	10538	1	KED
	Y	**89**		ug/L			230853	224268	1	Standard
	Kr	**83**		ug/L			65	50	44	Standard
⎡>	**In-1**	**115**		ug/L			6387	6358	2	KED
⎢	**Cd**	**111**	**51.283**	ug/L	1.073	2	5	11817	2	KED
⎣	**Cd**	**114**	**51.173**	ug/L	1.494	2	2	28630	2	KED
⎡>	**Tb**	**159**		ug/L			540555	530844	4	Standard
⎣	**Pb**	**208**	**50.179**	ug/L	1.775	3	256	2211516	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:01:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33265	2	Standard
	Cl	**37**		ug/L			3578521	3460889	4	Standard
⎡>	**Sc**	**45**		ug/L			476701	453529	3	Standard
⎢	**Cr**	**52**	**-0.014**	ug/L	0.017	118	18596	17427	2	Standard
⎢	**Cr**	**53**	**-0.006**	ug/L	0.004	61	133	114	9	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.000	18	801	695	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	23194	1	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.010	10709	86	81	14	KED
⎢	**Ni**	**62**	**0.012**	ug/L	0.023	183	16	17	22	KED
⎢	**Cu**	**63**	**-0.000**	ug/L	0.004	3024	67	64	20	KED
⎢	**Cu**	**65**	**-0.006**	ug/L	0.006	101	42	31	27	KED
⎢	**Zn**	**66**	**0.013**	ug/L	0.011	83	67	69	6	KED
⎢	**Zn**	**67**	**-0.010**	ug/L	0.014	145	11	10	10	KED
⎣	**As**	**75**	**0.004**	ug/L	0.008	200	6	7	23	KED
	Y	**89**		ug/L			230853	220971	4	Standard
	Kr	**83**		ug/L			65	54	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6714	0	KED
⎢	**Cd**	**111**	**-0.002**	ug/L	0.016	631	5	4	80	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.006	260	2	3	87	KED
⎡>	**Tb**	**159**		ug/L			540555	520970	4	Standard
⎣	**Pb**	**208**	**-0.000**	ug/L	0.000	221	256	240	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:06:45

DEL

WRONG SAMPLE

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	16821	75	Standard
	Cl	**37**		ug/L			3578521	1790505	63	Standard
⌈>	**Sc**	**45**		ug/L			476701	752041	100	Standard
|	**Cr**	**52**	**1.900**	ug/L	4.611	242	18596	6857	82	Standard
|	**Cr**	**53**	**0.768**	ug/L	1.396	181	133	86	42	Standard
⌊	**Mn**	**55**	**0.137**	ug/L	0.273	198	801	428	77	Standard
⌈>	**Ge**	**72**		ug/L			24444	3065	151	KED
|	**Ni**	**60**	**-0.074**	ug/L	0.009	11	86	1	173	KED
|	**Ni**	**62**	**1.496**	ug/L	1.898	126	16	5	21	KED
|	**Cu**	**63**	**-0.017**	ug/L	0.006	33	67	3	173	KED
|	**Cu**	**65**	**0.105**	ug/L	0.133	126	42	5	43	KED
|	**Zn**	**66**	**0.498**	ug/L	0.792	158	67	4	24	KED
|	**Zn**	**67**	**0.924**	ug/L	1.679	181	11	2	114	KED
⌊	**As**	**75**	**0.663**	ug/L	0.755	113	6	3	37	KED
	Y	**89**		ug/L			230853	394957	96	Standard
	Kr	**83**		ug/L			65	22	28	Standard
⌈>	**In-1**	**115**		ug/L			6387	16359	33	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.003	21	5	4	61	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.001	238	2	5	35	KED
⌈>	**Tb**	**159**		ug/L			540555	963931	94	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.001	16	256	102	87	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:12:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41079	0	Standard
	Cl	**37**		ug/L			3578521	3520747	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	464742	3	Standard
|	**Cr**	**52**	**0.201**	ug/L	0.041	20	18596	21837	2	Standard
|	**Cr**	**53**	**0.167**	ug/L	0.023	13	133	491	12	Standard
⌊	**Mn**	**55**	**0.237**	ug/L	0.001	0	801	7134	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	25501	3	KED
|	**Ni**	**60**	**-0.062**	ug/L	0.004	7	86	19	30	KED
|	**Ni**	**62**	**-0.044**	ug/L	0.023	52	16	8	44	KED
|	**Cu**	**63**	**0.016**	ug/L	0.002	9	67	126	4	KED
|	**Cu**	**65**	**0.016**	ug/L	0.009	54	42	71	24	KED
|	**Zn**	**66**	**0.268**	ug/L	0.062	23	67	190	11	KED
|	**Zn**	**67**	**0.152**	ug/L	0.131	86	11	23	41	KED
⌊	**As**	**75**	**0.005**	ug/L	0.016	298	6	8	41	KED
	Y	**89**		ug/L			230853	227722	3	Standard
	Kr	**83**		ug/L			65	51	22	Standard
⌈>	**In-1**	**115**		ug/L			6387	6664	1	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.002	17	5	2	24	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	206	2	3	78	KED
⌈>	**Tb**	**159**		ug/L			540555	530064	5	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	50	256	213	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:16:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39904	1	Standard
	Cl	**37**		ug/L			3578521	3458447	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	438870	1	Standard
|	**Cr**	**52**	**25.837**	ug/L	0.294	1	18596	468710	0	Standard
|	**Cr**	**53**	**25.575**	ug/L	0.569	2	133	52273	1	Standard
⌊	**Mn**	**55**	**26.545**	ug/L	0.560	2	801	672686	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23248	1	KED
|	**Ni**	**60**	**25.740**	ug/L	0.545	2	86	26816	2	KED
|	**Ni**	**62**	**25.194**	ug/L	0.463	1	16	4306	2	KED
|	**Cu**	**63**	**25.339**	ug/L	0.372	1	67	78501	0	KED
|	**Cu**	**65**	**25.260**	ug/L	0.417	1	42	38652	0	KED
|	**Zn**	**66**	**83.867**	ug/L	0.715	0	67	34497	1	KED
|	**Zn**	**67**	**76.190**	ug/L	2.598	3	11	5352	2	KED
⌊	**As**	**75**	**25.305**	ug/L	0.503	1	6	5247	0	KED
	Y	**89**		ug/L			230853	217213	1	Standard
	Kr	**83**		ug/L			65	52	22	Standard
⌈>	**In-1**	**115**		ug/L			6387	6373	1	KED
|	**Cd**	**111**	**25.446**	ug/L	0.445	1	5	5879	1	KED
⌊	**Cd**	**114**	**25.308**	ug/L	0.126	0	2	14197	1	KED
⌈>	**Tb**	**159**		ug/L			540555	512477	3	Standard
⌊	**Pb**	**208**	**26.331**	ug/L	1.081	4	256	1120439	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:21:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	60244	1	Standard
	Cl	**37**		ug/L			3578521	3656693	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	594488	1	Standard
|	**Cr**	**52**	**17.337**	ug/L	0.394	2	18596	433600	0	Standard
|	**Cr**	**53**	**17.472**	ug/L	0.262	1	133	48424	0	Standard
⌊	**Mn**	**55**	**134.485**	ug/L	2.769	2	801	4612397	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23792	1	KED
|	**Ni**	**60**	**13.835**	ug/L	0.453	3	86	14785	2	KED
|	**Ni**	**62**	**14.007**	ug/L	0.205	1	16	2457	2	KED
|	**Cu**	**63**	**38.392**	ug/L	0.222	0	67	121698	1	KED
|	**Cu**	**65**	**38.461**	ug/L	0.833	2	42	60204	0	KED
|	**Zn**	**66**	**86.178**	ug/L	0.125	0	67	36275	1	KED
|	**Zn**	**67**	**80.688**	ug/L	1.246	1	11	5802	2	KED
⌊	**As**	**75**	**10.154**	ug/L	0.096	0	6	2159	2	KED
	Y	**89**		ug/L			230853	460643	2	Standard
	Kr	**83**		ug/L			65	139	27	Standard
⌈>	**In-1**	**115**		ug/L			6387	6546	3	KED
|	**Cd**	**111**	**0.721**	ug/L	0.068	9	5	175	6	KED
⌊	**Cd**	**114**	**0.718**	ug/L	0.013	1	2	416	4	KED
⌈>	**Tb**	**159**		ug/L			540555	548464	2	Standard
⌊	**Pb**	**208**	**35.527**	ug/L	0.786	2	256	1618886	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:25:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	56919	0	Standard
	Cl	37		ug/L			3578521	3556256	1	Standard
>	Sc	45		ug/L			476701	601764	2	Standard
	Cr	52	16.599	ug/L	0.229	1	18596	421249	1	Standard
	Cr	53	16.552	ug/L	0.285	1	133	46446	2	Standard
	Mn	55	133.471	ug/L	2.197	1	801	4633196	1	Standard
>	Ge	72		ug/L			24444	22860	0	KED
	Ni	60	13.374	ug/L	0.223	1	86	13738	1	KED
	Ni	62	13.345	ug/L	0.677	5	16	2249	4	KED
	Cu	63	34.735	ug/L	0.513	1	67	105798	1	KED
	Cu	65	35.323	ug/L	0.943	2	42	53134	2	KED
	Zn	66	86.650	ug/L	0.283	0	67	35045	0	KED
	Zn	67	82.066	ug/L	1.598	1	11	5669	1	KED
	As	75	10.165	ug/L	0.128	1	6	2076	1	KED
	Y	89		ug/L			230853	478052	1	Standard
	Kr	83		ug/L			65	148	12	Standard
>	In-1	115		ug/L			6387	6232	1	KED
	Cd	111	0.488	ug/L	0.053	10	5	115	10	KED
	Cd	114	0.490	ug/L	0.075	15	2	270	14	KED
>	Tb	159		ug/L			540555	549101	3	Standard
	Pb	208	38.274	ug/L	1.023	2	256	1745600	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:29:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			34196	63292	1	Standard
Cl	37		ug/L			3578521	3578320	2	Standard
> Sc	45		ug/L			476701	623910	2	Standard
Cr	52	14.592	ug/L	0.162	1	18596	386910	2	Standard
Cr	53	14.748	ug/L	0.305	2	133	42917	0	Standard
Mn	55	138.686	ug/L	2.155	1	801	4991891	1	Standard
> Ge	72		ug/L			24444	23056	0	KED
Ni	60	13.735	ug/L	0.256	1	86	14228	1	KED
Ni	62	13.935	ug/L	0.442	3	16	2369	3	KED
Cu	63	36.729	ug/L	0.276	0	67	112834	0	KED
Cu	65	36.835	ug/L	1.267	3	42	55888	3	KED
Zn	66	87.180	ug/L	2.546	2	67	35563	3	KED
Zn	67	82.657	ug/L	2.237	2	11	5759	2	KED
As	75	9.091	ug/L	0.111	1	6	1874	1	KED
Y	89		ug/L			230853	499088	0	Standard
Kr	83		ug/L			65	149	17	Standard
> In-1	115		ug/L			6387	6372	1	KED
Cd	111	0.520	ug/L	0.032	6	5	125	6	KED
Cd	114	0.490	ug/L	0.020	4	2	276	2	KED
> Tb	159		ug/L			540555	554006	3	Standard
Pb	208	33.375	ug/L	1.324	3	256	1535253	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:34:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	59050	2	Standard
	Cl	**37**		ug/L			3578521	3640863	0	Standard
>	**Sc**	**45**		ug/L			476701	618718	2	Standard
	Cr	**52**	**15.400**	ug/L	0.311	2	18596	403518	1	Standard
	Cr	**53**	**15.761**	ug/L	0.457	2	133	45465	1	Standard
	Mn	**55**	**139.850**	ug/L	4.418	3	801	4990014	1	Standard
>	**Ge**	**72**		ug/L			24444	23532	1	KED
	Ni	**60**	**13.510**	ug/L	0.180	1	86	14285	1	KED
	Ni	**62**	**13.871**	ug/L	0.389	2	16	2407	3	KED
	Cu	**63**	**34.436**	ug/L	0.668	1	67	107959	1	KED
	Cu	**65**	**34.980**	ug/L	0.480	1	42	54164	0	KED
	Zn	**66**	**83.494**	ug/L	1.475	1	67	34760	1	KED
	Zn	**67**	**76.965**	ug/L	1.599	2	11	5473	1	KED
	As	**75**	**8.742**	ug/L	0.335	3	6	1839	4	KED
	Y	**89**		ug/L			230853	507741	1	Standard
	Kr	**83**		ug/L			65	184	20	Standard
>	**In-1**	**115**		ug/L			6387	6429	0	KED
	Cd	**111**	**0.432**	ug/L	0.012	2	5	105	2	KED
	Cd	**114**	**0.447**	ug/L	0.038	8	2	255	8	KED
>	**Tb**	**159**		ug/L			540555	558215	3	Standard
	Pb	**208**	**35.267**	ug/L	1.067	3	256	1634976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:38:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	56543	1	Standard
	Cl	**37**		ug/L			3578521	3632245	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	587014	2	Standard
|	**Cr**	**52**	**16.797**	ug/L	0.373	2	18596	415513	0	Standard
|	**Cr**	**53**	**16.881**	ug/L	0.045	0	133	46213	2	Standard
⌊	**Mn**	**55**	**130.264**	ug/L	1.249	0	801	4411714	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23738	2	KED
|	**Ni**	**60**	**14.560**	ug/L	0.307	2	86	15522	2	KED
|	**Ni**	**62**	**14.274**	ug/L	0.524	3	16	2497	3	KED
|	**Cu**	**63**	**30.243**	ug/L	0.104	0	67	95660	1	KED
|	**Cu**	**65**	**31.315**	ug/L	0.401	1	42	48915	1	KED
|	**Zn**	**66**	**82.033**	ug/L	0.978	1	67	34451	1	KED
|	**Zn**	**67**	**76.450**	ug/L	3.827	5	11	5482	3	KED
⌊	**As**	**75**	**10.489**	ug/L	0.043	0	6	2225	1	KED
	Y	**89**		ug/L			230853	461535	0	Standard
	Kr	**83**		ug/L			65	128	0	Standard
⌈>	**In-1**	**115**		ug/L			6387	6654	2	KED
|	**Cd**	**111**	**1.720**	ug/L	0.065	3	5	419	2	KED
⌊	**Cd**	**114**	**1.865**	ug/L	0.057	3	2	1094	4	KED
⌈>	**Tb**	**159**		ug/L			540555	554053	3	Standard
⌊	**Pb**	**208**	**36.639**	ug/L	1.103	3	256	1685881	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:43:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	65154	1	Standard
	Cl	37		ug/L			3578521	3626843	1	Standard
>	Sc	45		ug/L			476701	629046	1	Standard
	Cr	52	20.117	ug/L	0.178	0	18596	528531	0	Standard
	Cr	53	20.235	ug/L	0.204	1	133	59321	0	Standard
	Mn	55	142.259	ug/L	0.858	0	801	5163724	1	Standard
>	Ge	72		ug/L			24444	23518	1	KED
	Ni	60	13.818	ug/L	0.137	0	86	14599	0	KED
	Ni	62	14.464	ug/L	0.101	0	16	2507	1	KED
	Cu	63	35.520	ug/L	0.472	1	67	111290	0	KED
	Cu	65	35.309	ug/L	0.310	0	42	54653	2	KED
	Zn	66	122.246	ug/L	2.120	1	67	50841	2	KED
	Zn	67	114.573	ug/L	2.982	2	11	8136	1	KED
	As	75	16.031	ug/L	0.085	0	6	3366	1	KED
	Y	89		ug/L			230853	503262	2	Standard
	Kr	83		ug/L			65	146	6	Standard
>	In-1	115		ug/L			6387	6335	1	KED
	Cd	111	0.538	ug/L	0.042	7	5	128	7	KED
	Cd	114	0.500	ug/L	0.073	14	2	281	15	KED
>	Tb	159		ug/L			540555	577652	2	Standard
	Pb	208	24.104	ug/L	0.455	1	256	1157040	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:47:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			34196	64618	3	Standard
Cl	37		ug/L			3578521	3633882	2	Standard
> Sc	45		ug/L			476701	632674	2	Standard
Cr	52	16.277	ug/L	0.479	2	18596	434662	0	Standard
Cr	53	16.211	ug/L	0.494	3	133	47818	1	Standard
Mn	55	138.679	ug/L	2.152	1	801	5061415	0	Standard
> Ge	72		ug/L			24444	24375	2	KED
Ni	60	14.954	ug/L	0.656	4	86	16358	2	KED
Ni	62	14.942	ug/L	1.029	6	16	2682	5	KED
Cu	63	26.292	ug/L	0.156	0	67	85399	1	KED
Cu	65	26.647	ug/L	0.260	0	42	42747	1	KED
Zn	66	138.610	ug/L	2.611	1	67	59718	1	KED
Zn	67	127.419	ug/L	2.032	1	11	9377	0	KED
As	75	17.583	ug/L	0.054	0	6	3825	2	KED
Y	89		ug/L			230853	521900	1	Standard
Kr	83		ug/L			65	155	22	Standard
> In-1	115		ug/L			6387	6306	2	KED
Cd	111	0.325	ug/L	0.047	14	5	79	14	KED
Cd	114	0.332	ug/L	0.049	14	2	186	14	KED
> Tb	159		ug/L			540555	576562	3	Standard
Pb	208	12.845	ug/L	0.398	3	256	615287	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:54:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32638	1	Standard
	Cl	**37**		ug/L			3578521	3701223	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	444103	3	Standard
⎢	**Cr**	**52**	**49.924**	ug/L	1.716	3	18596	899713	1	Standard
⎢	**Cr**	**53**	**49.732**	ug/L	1.785	3	133	102672	1	Standard
⎣	**Mn**	**55**	**50.971**	ug/L	1.393	2	801	1305748	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	23058	2	KED
⎢	**Ni**	**60**	**51.823**	ug/L	1.036	1	86	53450	1	KED
⎢	**Ni**	**62**	**49.941**	ug/L	1.151	2	16	8447	1	KED
⎢	**Cu**	**63**	**49.863**	ug/L	0.950	1	67	153141	2	KED
⎢	**Cu**	**65**	**51.087**	ug/L	0.316	0	42	77512	3	KED
⎢	**Zn**	**66**	**51.632**	ug/L	1.628	3	67	21081	2	KED
⎢	**Zn**	**67**	**50.378**	ug/L	2.106	4	11	3512	2	KED
⎣	**As**	**75**	**50.278**	ug/L	1.045	2	6	10333	0	KED
	Y	**89**		ug/L			230853	218382	0	Standard
	Kr	**83**		ug/L			65	62	10	Standard
⎡>	**In-1**	**115**		ug/L			6387	6314	2	KED
⎢	**Cd**	**111**	**48.776**	ug/L	0.388	0	5	11161	1	KED
⎣	**Cd**	**114**	**49.344**	ug/L	1.214	2	2	27415	1	KED
⎡>	**Tb**	**159**		ug/L			540555	525081	3	Standard
⎣	**Pb**	**208**	**49.848**	ug/L	1.346	2	256	2174207	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:01:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32926	5	Standard
	Cl	**37**		ug/L			3578521	3501742	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	432263	1	Standard
|	**Cr**	**52**	**0.012**	ug/L	0.020	163	18596	17078	2	Standard
|	**Cr**	**53**	**-0.003**	ug/L	0.006	166	133	113	9	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.002	200	801	704	5	Standard
⌈>	**Ge**	**72**		ug/L			24444	22126	3	KED
|	**Ni**	**60**	**0.004**	ug/L	0.002	42	86	82	1	KED
|	**Ni**	**62**	**0.025**	ug/L	0.004	15	16	19	0	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	44	67	52	11	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.006	62	42	25	35	KED
|	**Zn**	**66**	**0.052**	ug/L	0.009	17	67	81	2	KED
|	**Zn**	**67**	**0.008**	ug/L	0.049	623	11	10	26	KED
⌊	**As**	**75**	**0.007**	ug/L	0.008	111	6	7	20	KED
	Y	**89**		ug/L			230853	214650	1	Standard
	Kr	**83**		ug/L			65	48	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6124	1	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.007	55	5	1	86	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	189	2	1	205	KED
⌈>	**Tb**	**159**		ug/L			540555	503661	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	185	256	267	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:09:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				28744	1	Standard
	Cl	**37**		ug/L				3416101	0	Standard
⎡>	**Sc**	**45**		ug/L				429622	3	Standard
⎢	**Cr**	**52**		ug/L				16425	4	Standard
⎢	**Cr**	**53**		ug/L				102	7	Standard
⎣	**Mn**	**55**		ug/L				567	2	Standard
⎡>	**Ge**	**72**		ug/L				22652	1	KED
⎢	**Ni**	**60**		ug/L				20	14	KED
⎢	**Ni**	**62**		ug/L				7	43	KED
⎢	**Cu**	**63**		ug/L				30	27	KED
⎢	**Cu**	**65**		ug/L				24	16	KED
⎢	**Zn**	**66**		ug/L				40	9	KED
⎢	**Zn**	**67**		ug/L				3	50	KED
⎣	**As**	**75**		ug/L				5	28	KED
	Y	**89**		ug/L				208501	3	Standard
	Kr	**83**		ug/L				52	5	Standard
⎡>	**In-1**	**115**		ug/L				6222	2	KED
⎢	**Cd**	**111**		ug/L				2	65	KED
⎣	**Cd**	**114**		ug/L				6	56	KED
⎡>	**Tb**	**159**		ug/L				498579	3	Standard
⎣	**Pb**	**208**		ug/L				109	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:13:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29859	2	Standard
	Cl	**37**		ug/L			3416101	3661261	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	435471	0	Standard
|	**Cr**	**52**	**50.114**	ug/L	0.158	0	16425	885897	1	Standard
|	**Cr**	**53**	**49.291**	ug/L	0.496	1	102	99854	1	Standard
⌊	**Mn**	**55**	**50.383**	ug/L	0.864	1	567	1266400	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	22408	1	KED
|	**Ni**	**60**	**49.499**	ug/L	0.077	0	20	49572	0	KED
|	**Ni**	**62**	**48.829**	ug/L	0.938	1	7	8023	2	KED
|	**Cu**	**63**	**49.002**	ug/L	0.811	1	30	146247	1	KED
|	**Cu**	**65**	**49.258**	ug/L	0.800	1	24	72600	0	KED
|	**Zn**	**66**	**49.366**	ug/L	1.218	2	40	19573	1	KED
|	**Zn**	**67**	**48.417**	ug/L	1.239	2	3	3275	2	KED
⌊	**As**	**75**	**49.357**	ug/L	0.162	0	5	9861	0	KED
	Y	**89**		ug/L			208501	213698	2	Standard
	Kr	**83**		ug/L			52	64	25	Standard
⌈>	**In-1**	**115**		ug/L			6222	6210	2	KED
|	**Cd**	**111**	**49.427**	ug/L	1.386	2	2	11118	0	KED
⌊	**Cd**	**114**	**49.346**	ug/L	0.471	0	6	26977	2	KED
⌈>	**Tb**	**159**		ug/L			498579	514046	3	Standard
⌊	**Pb**	**208**	**49.918**	ug/L	1.570	3	109	2130878	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:20:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29334	2	Standard
	Cl	**37**		ug/L			3416101	3436340	1	Standard
⎡>	**Sc**	**45**		ug/L			429622	444026	1	Standard
⎢	**Cr**	**52**	**0.009**	ug/L	0.022	261	16425	17127	3	Standard
⎢	**Cr**	**53**	**-0.002**	ug/L	0.007	296	102	100	15	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.000	35	567	559	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	22579	4	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.003	24895	20	20	19	KED
⎢	**Ni**	**62**	**0.017**	ug/L	0.055	322	7	10	84	KED
⎢	**Cu**	**63**	**0.002**	ug/L	0.002	88	30	36	15	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.003	92	24	18	26	KED
⎢	**Zn**	**66**	**0.003**	ug/L	0.025	858	40	41	27	KED
⎢	**Zn**	**67**	**0.020**	ug/L	0.045	226	3	5	57	KED
⎣	**As**	**75**	**0.006**	ug/L	0.006	102	5	7	20	KED
	Y	**89**		ug/L			208501	221357	1	Standard
	Kr	**83**		ug/L			52	46	26	Standard
⎡>	**In-1**	**115**		ug/L			6222	6373	3	KED
⎢	**Cd**	**111**	**-0.002**	ug/L	0.004	271	2	1	50	KED
⎣	**Cd**	**114**	**-0.007**	ug/L	0.002	27	6	3	37	KED
⎡>	**Tb**	**159**		ug/L			498579	514436	3	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	254	109	118	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:29:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	56516	2	Standard
	Cl	37		ug/L			3416101	3553139	0	Standard
>	Sc	45		ug/L			429622	575188	3	Standard
	Cr	52	15.845	ug/L	0.536	3	16425	384713	1	Standard
	Cr	53	16.068	ug/L	0.410	2	102	43056	1	Standard
	Mn	55	125.453	ug/L	2.425	1	567	4162523	3	Standard
>	Ge	72		ug/L			22652	22372	2	KED
	Ni	60	15.044	ug/L	0.432	2	20	15051	1	KED
	Ni	62	15.287	ug/L	0.601	3	7	2512	4	KED
	Cu	63	28.458	ug/L	0.361	1	30	84797	0	KED
	Cu	65	28.531	ug/L	1.116	3	24	41976	2	KED
	Zn	66	68.994	ug/L	1.609	2	40	27293	1	KED
	Zn	67	67.023	ug/L	0.916	1	3	4525	0	KED
	As	75	7.850	ug/L	0.270	3	5	1570	1	KED
	Y	89		ug/L			208501	443638	1	Standard
	Kr	83		ug/L			52	119	22	Standard
>	In-1	115		ug/L			6222	6174	3	KED
	Cd	111	0.381	ug/L	0.021	5	2	87	2	KED
	Cd	114	0.360	ug/L	0.011	2	6	202	5	KED
>	Tb	159		ug/L			498579	538315	3	Standard
	Pb	208	23.369	ug/L	0.578	2	109	1044851	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:33:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	66731	2	Standard
Cl	37		ug/L			3416101	3687017	2	Standard
> Sc	45		ug/L			429622	599474	1	Standard
Cr	52	15.661	ug/L	0.207	1	16425	396920	3	Standard
Cr	53	15.614	ug/L	0.046	0	102	43639	2	Standard
Mn	55	131.560	ug/L	1.987	1	567	4550041	1	Standard
> Ge	72		ug/L			22652	22468	1	KED
Ni	60	15.446	ug/L	0.587	3	20	15520	3	KED
Ni	62	15.490	ug/L	0.213	1	7	2557	2	KED
Cu	63	27.634	ug/L	0.583	2	30	82700	1	KED
Cu	65	28.322	ug/L	0.858	3	24	41865	2	KED
Zn	66	69.905	ug/L	1.277	1	40	27776	1	KED
Zn	67	63.629	ug/L	1.285	2	3	4316	2	KED
As	75	7.691	ug/L	0.234	3	5	1545	2	KED
Y	89		ug/L			208501	474080	1	Standard
Kr	83		ug/L			52	147	12	Standard
> In-1	115		ug/L			6222	6146	3	KED
Cd	111	0.309	ug/L	0.030	9	2	71	11	KED
Cd	114	0.262	ug/L	0.029	10	6	148	10	KED
> Tb	159		ug/L			498579	568919	3	Standard
Pb	208	23.536	ug/L	1.045	4	109	1111642	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:38:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49621	3	Standard
	Cl	37		ug/L			3416101	3573766	2	Standard
>	Sc	45		ug/L			429622	605872	0	Standard
	Cr	52	37.753	ug/L	0.366	0	16425	934225	1	Standard
	Cr	53	38.300	ug/L	0.526	1	102	107979	1	Standard
	Mn	55	151.129	ug/L	3.838	2	567	5283429	2	Standard
>	Ge	72		ug/L			22652	23482	2	KED
	Ni	60	42.936	ug/L	0.663	1	20	45072	3	KED
	Ni	62	40.852	ug/L	0.468	1	7	7034	2	KED
	Cu	63	53.652	ug/L	1.545	2	30	167737	0	KED
	Cu	65	53.211	ug/L	0.716	1	24	82181	1	KED
	Zn	66	149.858	ug/L	1.793	1	40	62182	1	KED
	Zn	67	141.073	ug/L	2.418	1	3	9993	0	KED
	As	75	32.212	ug/L	0.648	2	5	6745	1	KED
	Y	89		ug/L			208501	480323	1	Standard
	Kr	83		ug/L			52	147	8	Standard
>	In-1	115		ug/L			6222	6528	3	KED
	Cd	111	25.322	ug/L	0.788	3	2	5987	0	KED
	Cd	114	25.581	ug/L	0.542	2	6	14699	1	KED
>	Tb	159		ug/L			498579	562590	3	Standard
	Pb	208	52.086	ug/L	1.736	3	109	2433264	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:42:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	51210	2	Standard
	Cl	37		ug/L			3416101	3553843	2	Standard
>	Sc	45		ug/L			429622	572917	0	Standard
	Cr	52	36.222	ug/L	0.135	0	16425	848456	0	Standard
	Cr	53	35.920	ug/L	0.617	1	102	95764	1	Standard
	Mn	55	146.009	ug/L	3.613	2	567	4825927	1	Standard
>	Ge	72		ug/L			22652	22850	0	KED
	Ni	60	41.240	ug/L	0.070	0	20	42118	0	KED
	Ni	62	40.282	ug/L	0.358	0	7	6750	1	KED
	Cu	63	52.781	ug/L	0.999	1	30	160615	1	KED
	Cu	65	52.457	ug/L	0.655	1	24	78841	0	KED
	Zn	66	144.558	ug/L	5.010	3	40	58366	2	KED
	Zn	67	134.641	ug/L	2.230	1	3	9283	1	KED
	As	75	32.365	ug/L	0.123	0	5	6595	0	KED
	Y	89		ug/L			208501	441470	1	Standard
	Kr	83		ug/L			52	144	9	Standard
>	In-1	115		ug/L			6222	6163	1	KED
	Cd	111	25.041	ug/L	0.665	2	2	5592	1	KED
	Cd	114	25.434	ug/L	0.431	1	6	13801	0	KED
>	Tb	159		ug/L			498579	528633	1	Standard
	Pb	208	45.923	ug/L	0.635	1	109	2017204	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:47:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	62256	1	Standard
	Cl	**37**		ug/L			3416101	3593992	1	Standard
>	**Sc**	**45**		ug/L			429622	604297	1	Standard
	Cr	**52**	**35.146**	ug/L	0.497	1	16425	868970	0	Standard
	Cr	**53**	**34.853**	ug/L	0.689	1	102	98000	0	Standard
	Mn	**55**	**145.248**	ug/L	3.608	2	567	5063387	1	Standard
>	**Ge**	**72**		ug/L			22652	22724	0	KED
	Ni	**60**	**39.759**	ug/L	0.861	2	20	40380	1	KED
	Ni	**62**	**39.478**	ug/L	0.441	1	7	6578	0	KED
	Cu	**63**	**53.091**	ug/L	0.912	1	30	160675	1	KED
	Cu	**65**	**52.275**	ug/L	0.887	1	24	78136	1	KED
	Zn	**66**	**143.214**	ug/L	4.054	2	40	57509	2	KED
	Zn	**67**	**134.466**	ug/L	1.527	1	3	9220	0	KED
	As	**75**	**31.882**	ug/L	0.181	0	5	6461	0	KED
	Y	**89**		ug/L			208501	460324	3	Standard
	Kr	**83**		ug/L			52	155	12	Standard
>	**In-1**	**115**		ug/L			6222	6167	2	KED
	Cd	**111**	**24.963**	ug/L	0.560	2	2	5577	0	KED
	Cd	**114**	**25.236**	ug/L	0.413	1	6	13700	0	KED
>	**Tb**	**159**		ug/L			498579	559426	2	Standard
	Pb	**208**	**46.822**	ug/L	1.181	2	109	2175996	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:53:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	45749	1	Standard
Cl	37		ug/L			3416101	3498496	0	Standard
> Sc	45		ug/L			429622	651206	3	Standard
Cr	52	18.755	ug/L	0.271	1	16425	511211	2	Standard
Cr	53	18.982	ug/L	0.326	1	102	57575	2	Standard
Mn	55	240.141	ug/L	7.543	3	567	9016365	1	Standard
> Ge	72		ug/L			22652	22764	1	KED
Ni	60	18.758	ug/L	0.351	1	20	19093	0	KED
Ni	62	18.914	ug/L	0.488	2	7	3160	2	KED
Cu	63	125.257	ug/L	1.724	1	30	379693	1	KED
Cu	65	124.296	ug/L	1.123	0	24	186099	2	KED
Zn	66	156.708	ug/L	4.505	2	40	63026	2	KED
Zn	67	146.245	ug/L	4.366	2	3	10042	1	KED
As	75	3.481	ug/L	0.084	2	5	711	0	KED
Y	89		ug/L			208501	562581	0	Standard
Kr	83		ug/L			52	188	10	Standard
> In-1	115		ug/L			6222	6563	1	KED
Cd	111	0.279	ug/L	0.008	2	2	68	2	KED
Cd	114	0.244	ug/L	0.050	20	6	148	18	KED
> Tb	159		ug/L			498579	560464	4	Standard
Pb	208	46.637	ug/L	1.465	3	109	2170223	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:57:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	40393	0	Standard
	Cl	37		ug/L			3416101	3485697	1	Standard
>	Sc	45		ug/L			429622	622694	3	Standard
	Cr	52	12.029	ug/L	0.336	2	16425	321953	0	Standard
	Cr	53	12.127	ug/L	0.204	1	102	35226	1	Standard
	Mn	55	175.195	ug/L	2.895	1	567	6291969	1	Standard
>	Ge	72		ug/L			22652	22202	1	KED
	Ni	60	19.391	ug/L	0.629	3	20	19250	2	KED
	Ni	62	19.390	ug/L	0.707	3	7	3160	3	KED
	Cu	63	20.741	ug/L	0.344	1	30	61341	0	KED
	Cu	65	20.499	ug/L	0.671	3	24	29943	2	KED
	Zn	66	50.672	ug/L	0.477	0	40	19908	1	KED
	Zn	67	56.914	ug/L	2.087	3	3	3814	3	KED
	As	75	2.726	ug/L	0.144	5	5	544	4	KED
	Y	89		ug/L			208501	544333	4	Standard
	Kr	83		ug/L			52	180	8	Standard
>	In-1	115		ug/L			6222	6420	3	KED
	Cd	111	0.060	ug/L	0.009	15	2	16	15	KED
	Cd	114	0.068	ug/L	0.002	3	6	45	2	KED
>	Tb	159		ug/L			498579	564914	4	Standard
	Pb	208	5.801	ug/L	0.211	3	109	272205	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:01:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	38378	4	Standard
	Cl	37		ug/L			3416101	3497347	0	Standard
>	Sc	45		ug/L			429622	587945	5	Standard
	Cr	52	11.106	ug/L	0.145	1	16425	282483	4	Standard
	Cr	53	11.278	ug/L	0.136	1	102	30945	4	Standard
	Mn	55	184.428	ug/L	1.446	0	567	6255542	4	Standard
>	Ge	72		ug/L			22652	23117	1	KED
	Ni	60	19.800	ug/L	0.357	1	20	20466	0	KED
	Ni	62	18.886	ug/L	0.325	1	7	3205	1	KED
	Cu	63	14.566	ug/L	0.200	1	30	44865	0	KED
	Cu	65	14.840	ug/L	0.327	2	24	22582	1	KED
	Zn	66	42.893	ug/L	0.275	0	40	17552	0	KED
	Zn	67	47.729	ug/L	1.499	3	3	3331	3	KED
	As	75	1.773	ug/L	0.138	7	5	371	6	KED
	Y	89		ug/L			208501	507399	5	Standard
	Kr	83		ug/L			52	130	4	Standard
>	In-1	115		ug/L			6222	6403	1	KED
	Cd	111	0.033	ug/L	0.005	14	2	9	11	KED
	Cd	114	0.036	ug/L	0.014	38	6	27	26	KED
>	Tb	159		ug/L			498579	554384	7	Standard
	Pb	208	2.503	ug/L	0.143	5	109	115104	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:06:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	38069	0	Standard
Cl	37		ug/L			3416101	3499645	1	Standard
Sc	45		ug/L			429622	587504	0	Standard
Cr	52	10.627	ug/L	0.165	1	16425	271110	0	Standard
Cr	53	10.796	ug/L	0.062	0	102	29614	1	Standard
Mn	55	193.924	ug/L	1.395	0	567	6573200	0	Standard
Ge	72		ug/L			22652	23355	1	KED
Ni	60	17.849	ug/L	0.903	5	20	18638	4	KED
Ni	62	17.934	ug/L	1.118	6	7	3073	4	KED
Cu	63	15.555	ug/L	0.558	3	30	48397	2	KED
Cu	65	15.709	ug/L	0.420	2	24	24146	1	KED
Zn	66	41.452	ug/L	1.634	3	40	17132	2	KED
Zn	67	49.096	ug/L	1.766	3	3	3461	2	KED
As	75	1.882	ug/L	0.019	1	5	397	2	KED
Y	89		ug/L			208501	516913	1	Standard
Kr	83		ug/L			52	130	16	Standard
In-1	115		ug/L			6222	6347	0	KED
Cd	111	0.058	ug/L	0.023	39	2	15	33	KED
Cd	114	0.030	ug/L	0.012	39	6	23	27	KED
Tb	159		ug/L			498579	547977	2	Standard
Pb	208	2.582	ug/L	0.092	3	109	117635	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:10:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	38499	0	Standard
Cl	37		ug/L			3416101	3436714	2	Standard
> Sc	45		ug/L			429622	590895	2	Standard
Cr	52	15.120	ug/L	0.334	2	16425	378345	1	Standard
Cr	53	15.430	ug/L	0.338	2	102	42491	0	Standard
Mn	55	205.866	ug/L	6.296	3	567	7014591	0	Standard
> Ge	72		ug/L			22652	22189	1	KED
Ni	60	22.496	ug/L	0.436	1	20	22319	2	KED
Ni	62	22.373	ug/L	0.156	0	7	3643	0	KED
Cu	63	18.515	ug/L	0.284	1	30	54732	0	KED
Cu	65	19.133	ug/L	0.416	2	24	27941	2	KED
Zn	66	44.452	ug/L	0.524	1	40	17460	2	KED
Zn	67	51.710	ug/L	1.353	2	3	3465	3	KED
As	75	2.303	ug/L	0.131	5	5	460	5	KED
Y	89		ug/L			208501	595323	0	Standard
Kr	83		ug/L			52	174	9	Standard
> In-1	115		ug/L			6222	6152	1	KED
Cd	111	0.066	ug/L	0.004	5	2	16	3	KED
Cd	114	0.053	ug/L	0.008	14	6	35	9	KED
> Tb	159		ug/L			498579	541074	2	Standard
Pb	208	2.982	ug/L	0.051	1	109	134137	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 21:17:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31168	4	Standard
	Cl	**37**		ug/L			3416101	3666992	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	434741	1	Standard
|	**Cr**	**52**	**49.633**	ug/L	0.354	0	16425	876078	1	Standard
|	**Cr**	**53**	**48.647**	ug/L	0.128	0	102	98379	0	Standard
⌊	**Mn**	**55**	**50.118**	ug/L	0.284	0	567	1257482	0	Standard
⌈>	**Ge**	**72**		ug/L			22652	21515	0	KED
|	**Ni**	**60**	**50.869**	ug/L	1.612	3	20	48910	2	KED
|	**Ni**	**62**	**49.716**	ug/L	0.488	0	7	7842	0	KED
|	**Cu**	**63**	**49.663**	ug/L	0.771	1	30	142306	1	KED
|	**Cu**	**65**	**50.203**	ug/L	0.431	0	24	71050	0	KED
|	**Zn**	**66**	**50.312**	ug/L	1.544	3	40	19152	2	KED
|	**Zn**	**67**	**50.148**	ug/L	1.547	3	3	3257	2	KED
⌊	**As**	**75**	**50.676**	ug/L	1.209	2	5	9721	2	KED
	Y	**89**		ug/L			208501	214811	0	Standard
	Kr	**83**		ug/L			52	42	2	Standard
⌈>	**In-1**	**115**		ug/L			6222	5999	0	KED
|	**Cd**	**111**	**50.210**	ug/L	1.210	2	2	10913	1	KED
⌊	**Cd**	**114**	**49.810**	ug/L	0.928	1	6	26302	1	KED
⌈>	**Tb**	**159**		ug/L			498579	506574	4	Standard
⌊	**Pb**	**208**	**50.439**	ug/L	1.660	3	109	2121582	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 21:24:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	28231	2	Standard
	Cl	**37**		ug/L			3416101	3328721	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	425027	1	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.013	172	16425	16378	2	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.001	7	102	85	2	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	60	567	630	6	Standard
⌈>	**Ge**	**72**		ug/L			22652	21828	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	54	20	13	20	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.013	526	7	6	31	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	73	30	39	18	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.005	91	24	15	45	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.017	81	40	31	23	KED
|	**Zn**	**67**	**0.050**	ug/L	0.043	86	3	6	41	KED
⌊	**As**	**75**	**0.003**	ug/L	0.009	333	5	6	27	KED
	Y	**89**		ug/L			208501	214115	4	Standard
	Kr	**83**		ug/L			52	46	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	6043	3	KED
|	**Cd**	**111**	**0.009**	ug/L	0.007	80	2	4	35	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	31	6	3	36	KED
⌈>	**Tb**	**159**		ug/L			498579	492267	4	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	84	109	121	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 21:30:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32769	3	Standard
	Cl	**37**		ug/L			3416101	3360007	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460983	0	Standard
|	**Cr**	**52**	**1.583**	ug/L	0.060	3	16425	46696	2	Standard
|	**Cr**	**53**	**1.632**	ug/L	0.026	1	102	3606	1	Standard
⌊	**Mn**	**55**	**42.753**	ug/L	1.270	2	567	1137555	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	22965	0	KED
|	**Ni**	**60**	**1.333**	ug/L	0.025	1	20	1388	1	KED
|	**Ni**	**62**	**1.267**	ug/L	0.140	11	7	220	11	KED
|	**Cu**	**63**	**14.384**	ug/L	0.366	2	30	44016	2	KED
|	**Cu**	**65**	**14.049**	ug/L	0.360	2	24	21239	2	KED
|	**Zn**	**66**	**15.638**	ug/L	0.369	2	40	6383	1	KED
|	**Zn**	**67**	**14.604**	ug/L	1.019	6	3	1015	6	KED
⌊	**As**	**75**	**0.432**	ug/L	0.040	9	5	94	8	KED
	Y	**89**		ug/L			208501	244204	1	Standard
	Kr	**83**		ug/L			52	57	10	Standard
⌈>	**In-1**	**115**		ug/L			6222	6214	2	KED
|	**Cd**	**111**	**0.030**	ug/L	0.014	46	2	8	32	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.007	74	6	12	33	KED
⌈>	**Tb**	**159**		ug/L			498579	522653	1	Standard
⌊	**Pb**	**208**	**1.706**	ug/L	0.047	2	109	74177	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-25
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:35:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36950	4	Standard
	Cl	**37**		ug/L			3416101	3348458	4	Standard
⌈>	**Sc**	**45**		ug/L			429622	510986	7	Standard
|	**Cr**	**52**	**6.947**	ug/L	0.043	0	16425	160957	7	Standard
|	**Cr**	**53**	**7.168**	ug/L	0.192	2	102	17133	6	Standard
⌊	**Mn**	**55**	**178.843**	ug/L	4.747	2	567	5272051	7	Standard
⌈>	**Ge**	**72**		ug/L			22652	23785	0	KED
|	**Ni**	**60**	**6.559**	ug/L	0.122	1	20	6990	1	KED
|	**Ni**	**62**	**6.405**	ug/L	0.201	3	7	1123	3	KED
|	**Cu**	**63**	**67.232**	ug/L	0.661	0	30	212973	0	KED
|	**Cu**	**65**	**68.661**	ug/L	0.726	1	24	107421	1	KED
|	**Zn**	**66**	**72.988**	ug/L	1.411	1	40	30702	2	KED
|	**Zn**	**67**	**68.701**	ug/L	0.862	1	3	4932	1	KED
⌊	**As**	**75**	**2.125**	ug/L	0.044	2	5	456	2	KED
	Y	**89**		ug/L			208501	341924	8	Standard
	Kr	**83**		ug/L			52	93	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6622	0	KED
|	**Cd**	**111**	**0.084**	ug/L	0.013	16	2	22	14	KED
⌊	**Cd**	**114**	**0.074**	ug/L	0.021	27	6	50	23	KED
⌈>	**Tb**	**159**		ug/L			498579	513382	4	Standard
⌊	**Pb**	**208**	**8.266**	ug/L	0.131	1	109	352917	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:43:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36621	5	Standard
	Cl	**37**		ug/L			3416101	3415109	4	Standard
⌈>	**Sc**	**45**		ug/L			429622	512853	0	Standard
|	**Cr**	**52**	**7.818**	ug/L	0.090	1	16425	179309	1	Standard
|	**Cr**	**53**	**7.839**	ug/L	0.067	0	102	18804	0	Standard
⌊	**Mn**	**55**	**178.327**	ug/L	0.620	0	567	5276760	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22261	1	KED
|	**Ni**	**60**	**7.337**	ug/L	0.237	3	20	7318	4	KED
|	**Ni**	**62**	**7.469**	ug/L	0.418	5	7	1224	4	KED
|	**Cu**	**63**	**69.282**	ug/L	1.307	1	30	205405	2	KED
|	**Cu**	**65**	**69.871**	ug/L	1.987	2	24	102322	3	KED
|	**Zn**	**66**	**72.792**	ug/L	2.608	3	40	28649	2	KED
|	**Zn**	**67**	**69.269**	ug/L	2.416	3	3	4653	2	KED
⌊	**As**	**75**	**2.067**	ug/L	0.092	4	5	415	3	KED
	Y	**89**		ug/L			208501	351106	2	Standard
	Kr	**83**		ug/L			52	85	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	6056	2	KED
|	**Cd**	**111**	**0.110**	ug/L	0.017	15	2	26	12	KED
⌊	**Cd**	**114**	**0.092**	ug/L	0.007	7	6	55	9	KED
⌈>	**Tb**	**159**		ug/L			498579	515225	2	Standard
⌊	**Pb**	**208**	**8.991**	ug/L	0.195	2	109	384911	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:47:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	37342	0	Standard
	Cl	37		ug/L			3416101	3421286	1	Standard
>	Sc	45		ug/L			429622	545832	2	Standard
	Cr	52	16.844	ug/L	0.214	1	16425	387035	2	Standard
	Cr	53	17.296	ug/L	0.400	2	102	44008	4	Standard
	Mn	55	188.393	ug/L	2.013	1	567	5932891	2	Standard
>	Ge	72		ug/L			22652	23435	1	KED
	Ni	60	18.073	ug/L	0.295	1	20	18939	0	KED
	Ni	62	17.883	ug/L	0.504	2	7	3078	4	KED
	Cu	63	94.704	ug/L	0.501	0	30	295568	1	KED
	Cu	65	93.552	ug/L	1.277	1	24	144177	0	KED
	Zn	66	113.829	ug/L	1.122	0	40	47157	2	KED
	Zn	67	106.321	ug/L	1.945	1	3	7518	0	KED
	As	75	11.912	ug/L	0.292	2	5	2493	2	KED
	Y	89		ug/L			208501	378246	2	Standard
	Kr	83		ug/L			52	108	29	Standard
>	In-1	115		ug/L			6222	6483	1	KED
	Cd	111	10.808	ug/L	0.116	1	2	2540	1	KED
	Cd	114	10.789	ug/L	0.238	2	6	6163	2	KED
>	Tb	159		ug/L			498579	536548	4	Standard
	Pb	208	19.974	ug/L	0.587	2	109	889971	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:52:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35329	2	Standard
	Cl	**37**		ug/L			3416101	3495278	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	522864	1	Standard
|	**Cr**	**52**	**16.917**	ug/L	0.371	2	16425	372252	0	Standard
|	**Cr**	**53**	**16.807**	ug/L	0.219	1	102	40957	0	Standard
⌊	**Mn**	**55**	**238.098**	ug/L	1.706	0	567	7182666	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22411	0	KED
|	**Ni**	**60**	**18.652**	ug/L	0.610	3	20	18692	2	KED
|	**Ni**	**62**	**18.196**	ug/L	0.861	4	7	2993	3	KED
|	**Cu**	**63**	**82.278**	ug/L	0.226	0	30	245569	0	KED
|	**Cu**	**65**	**83.327**	ug/L	1.156	1	24	122823	1	KED
|	**Zn**	**66**	**110.875**	ug/L	0.742	0	40	43923	1	KED
|	**Zn**	**67**	**102.047**	ug/L	1.523	1	3	6901	0	KED
⌊	**As**	**75**	**11.943**	ug/L	0.416	3	5	2390	3	KED
	Y	**89**		ug/L			208501	358541	2	Standard
	Kr	**83**		ug/L			52	104	18	Standard
⌈>	**In-1**	**115**		ug/L			6222	6163	2	KED
|	**Cd**	**111**	**10.573**	ug/L	0.308	2	2	2363	3	KED
⌊	**Cd**	**114**	**10.864**	ug/L	0.378	3	6	5898	2	KED
⌈>	**Tb**	**159**		ug/L			498579	520646	3	Standard
⌊	**Pb**	**208**	**19.540**	ug/L	0.709	3	109	844780	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:56:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	37694	0	Standard
	Cl	**37**		ug/L			3416101	3351546	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	501226	0	Standard
|	**Cr**	**52**	**29.835**	ug/L	0.469	1	16425	614753	0	Standard
|	**Cr**	**53**	**30.188**	ug/L	0.539	1	102	70427	1	Standard
⌊	**Mn**	**55**	**207.563**	ug/L	3.241	1	567	6002068	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22603	1	KED
|	**Ni**	**60**	**32.510**	ug/L	0.503	1	20	32844	0	KED
|	**Ni**	**62**	**32.863**	ug/L	1.409	4	7	5446	2	KED
|	**Cu**	**63**	**95.182**	ug/L	0.392	0	30	286536	2	KED
|	**Cu**	**65**	**96.112**	ug/L	0.528	0	24	142877	1	KED
|	**Zn**	**66**	**157.316**	ug/L	1.130	0	40	62835	1	KED
|	**Zn**	**67**	**149.266**	ug/L	4.233	2	3	10177	1	KED
⌊	**As**	**75**	**27.545**	ug/L	0.331	1	5	5553	1	KED
	Y	**89**		ug/L			208501	344555	2	Standard
	Kr	**83**		ug/L			52	106	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6294	1	KED
|	**Cd**	**111**	**25.870**	ug/L	0.585	2	2	5900	1	KED
⌊	**Cd**	**114**	**26.669**	ug/L	0.790	2	6	14777	1	KED
⌈>	**Tb**	**159**		ug/L			498579	516235	2	Standard
⌊	**Pb**	**208**	**34.752**	ug/L	0.928	2	109	1490377	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:01:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	38446	2	Standard
	Cl	37		ug/L			3416101	3480483	1	Standard
>	Sc	45		ug/L			429622	652384	1	Standard
	Cr	52	17.095	ug/L	0.249	1	16425	469094	0	Standard
	Cr	53	17.086	ug/L	0.463	2	102	51957	3	Standard
	Mn	55	193.596	ug/L	2.404	1	567	7286013	0	Standard
>	Ge	72		ug/L			22652	22245	0	KED
	Ni	60	19.278	ug/L	0.200	1	20	19178	1	KED
	Ni	62	19.381	ug/L	0.597	3	7	3165	3	KED
	Cu	63	20.587	ug/L	0.358	1	30	61012	1	KED
	Cu	65	21.248	ug/L	0.326	1	24	31104	1	KED
	Zn	66	45.102	ug/L	0.757	1	40	17758	1	KED
	Zn	67	52.733	ug/L	1.076	2	3	3542	2	KED
	As	75	2.549	ug/L	0.049	1	5	510	1	KED
	Y	89		ug/L			208501	557040	2	Standard
	Kr	83		ug/L			52	171	10	Standard
>	In-1	115		ug/L			6222	6171	1	KED
	Cd	111	0.065	ug/L	0.012	19	2	16	17	KED
	Cd	114	0.066	ug/L	0.027	41	6	42	33	KED
>	Tb	159		ug/L			498579	529246	2	Standard
	Pb	208	3.695	ug/L	0.059	1	109	162599	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:05:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	42791	2	Standard
	Cl	37		ug/L			3416101	3466894	4	Standard
>	Sc	45		ug/L			429622	650540	1	Standard
	Cr	52	15.716	ug/L	0.190	1	16425	432050	1	Standard
	Cr	53	15.968	ug/L	0.243	1	102	48416	0	Standard
	Mn	55	184.105	ug/L	1.087	0	567	6909882	1	Standard
>	Ge	72		ug/L			22652	21567	1	KED
	Ni	60	20.114	ug/L	0.322	1	20	19396	0	KED
	Ni	62	19.687	ug/L	0.170	0	7	3117	0	KED
	Cu	63	22.237	ug/L	0.274	1	30	63899	2	KED
	Cu	65	22.166	ug/L	0.219	0	24	31458	0	KED
	Zn	66	47.707	ug/L	1.217	2	40	18209	2	KED
	Zn	67	55.199	ug/L	0.943	1	3	3594	2	KED
	As	75	2.320	ug/L	0.019	0	5	451	0	KED
	Y	89		ug/L			208501	565908	2	Standard
	Kr	83		ug/L			52	193	12	Standard
>	In-1	115		ug/L			6222	5930	1	KED
	Cd	111	0.069	ug/L	0.022	32	2	16	26	KED
	Cd	114	0.067	ug/L	0.014	21	6	41	16	KED
>	Tb	159		ug/L			498579	532526	3	Standard
	Pb	208	3.611	ug/L	0.105	2	109	159795	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:10:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46762	2	Standard
	Cl	37		ug/L			3416101	3514699	3	Standard
>	Sc	45		ug/L			429622	657737	1	Standard
	Cr	52	15.292	ug/L	0.230	1	16425	425747	1	Standard
	Cr	53	15.671	ug/L	0.664	4	102	48032	2	Standard
	Mn	55	162.071	ug/L	3.855	2	567	6149178	1	Standard
>	Ge	72		ug/L			22652	22750	3	KED
	Ni	60	14.946	ug/L	0.272	1	20	15204	1	KED
	Ni	62	14.794	ug/L	0.156	1	7	2472	2	KED
	Cu	63	17.092	ug/L	0.581	3	30	51776	2	KED
	Cu	65	16.919	ug/L	0.602	3	24	25325	3	KED
	Zn	66	38.504	ug/L	0.217	0	40	15512	3	KED
	Zn	67	46.345	ug/L	1.745	3	3	3181	0	KED
	As	75	2.334	ug/L	0.152	6	5	478	3	KED
	Y	89		ug/L			208501	570365	2	Standard
	Kr	83		ug/L			52	186	16	Standard
>	In-1	115		ug/L			6222	6281	0	KED
	Cd	111	0.054	ug/L	0.013	23	2	14	19	KED
	Cd	114	0.063	ug/L	0.013	21	6	41	17	KED
>	Tb	159		ug/L			498579	548942	2	Standard
	Pb	208	3.450	ug/L	0.034	0	109	157495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:14:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49197	4	Standard
	Cl	37		ug/L			3416101	3536734	0	Standard
>	Sc	45		ug/L			429622	736691	2	Standard
	Cr	52	16.899	ug/L	0.162	0	16425	523984	1	Standard
	Cr	53	17.048	ug/L	0.037	0	102	58537	2	Standard
	Mn	55	148.796	ug/L	3.862	2	567	6322531	0	Standard
>	Ge	72		ug/L			22652	22423	0	KED
	Ni	60	17.273	ug/L	0.087	0	20	17322	0	KED
	Ni	62	16.912	ug/L	0.384	2	7	2785	2	KED
	Cu	63	21.968	ug/L	0.559	2	30	65620	1	KED
	Cu	65	22.166	ug/L	0.325	1	24	32709	1	KED
	Zn	66	52.695	ug/L	1.145	2	40	20906	1	KED
	Zn	67	56.418	ug/L	2.065	3	3	3820	4	KED
	As	75	2.308	ug/L	0.110	4	5	466	5	KED
	Y	89		ug/L			208501	650855	2	Standard
	Kr	83		ug/L			52	234	6	Standard
>	In-1	115		ug/L			6222	6018	1	KED
	Cd	111	0.083	ug/L	0.010	12	2	20	11	KED
	Cd	114	0.071	ug/L	0.031	43	6	43	35	KED
>	Tb	159		ug/L			498579	558397	3	Standard
	Pb	208	4.136	ug/L	0.144	3	109	191889	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 22:21:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31157	2	Standard
	Cl	**37**		ug/L			3416101	3618929	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	420383	1	Standard
⎢	**Cr**	**52**	**50.546**	ug/L	0.344	0	16425	862360	1	Standard
⎢	**Cr**	**53**	**50.605**	ug/L	0.635	1	102	98943	0	Standard
⎣	**Mn**	**55**	**51.822**	ug/L	0.433	0	567	1257198	0	Standard
⎡>	**Ge**	**72**		ug/L			22652	21487	0	KED
⎢	**Ni**	**60**	**49.839**	ug/L	0.606	1	20	47863	1	KED
⎢	**Ni**	**62**	**50.795**	ug/L	0.424	0	7	8002	1	KED
⎢	**Cu**	**63**	**50.219**	ug/L	1.292	2	30	143718	2	KED
⎢	**Cu**	**65**	**50.642**	ug/L	0.674	1	24	71577	0	KED
⎢	**Zn**	**66**	**50.420**	ug/L	0.518	1	40	19170	0	KED
⎢	**Zn**	**67**	**49.883**	ug/L	1.347	2	3	3236	2	KED
⎣	**As**	**75**	**49.815**	ug/L	0.436	0	5	9543	0	KED
	Y	**89**		ug/L			208501	206034	1	Standard
	Kr	**83**		ug/L			52	57	17	Standard
⎡>	**In-1**	**115**		ug/L			6222	5930	3	KED
⎢	**Cd**	**111**	**51.069**	ug/L	1.784	3	2	10963	0	KED
⎣	**Cd**	**114**	**51.210**	ug/L	1.494	2	6	26715	1	KED
⎡>	**Tb**	**159**		ug/L			498579	492587	3	Standard
⎣	**Pb**	**208**	**52.062**	ug/L	1.589	3	109	2129489	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 22:29:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	28002	1	Standard
	Cl	**37**		ug/L			3416101	3314931	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	398335	1	Standard
|	**Cr**	**52**	**0.028**	ug/L	0.003	9	16425	15674	2	Standard
|	**Cr**	**53**	**-0.001**	ug/L	0.004	389	102	93	7	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	33	567	571	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21763	3	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.009	361	20	17	48	KED
|	**Ni**	**62**	**-0.026**	ug/L	0.019	71	7	3	91	KED
|	**Cu**	**63**	**0.003**	ug/L	0.005	158	30	38	39	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.000	5	24	15	0	KED
|	**Zn**	**66**	**-0.001**	ug/L	0.040	3843	40	38	40	KED
|	**Zn**	**67**	**0.052**	ug/L	0.047	91	3	6	41	KED
⌊	**As**	**75**	**0.007**	ug/L	0.007	107	5	6	20	KED
	Y	**89**		ug/L			208501	197792	1	Standard
	Kr	**83**		ug/L			52	36	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5775	2	KED
|	**Cd**	**111**	**0.011**	ug/L	0.010	84	2	4	44	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.007	122	6	3	89	KED
⌈>	**Tb**	**159**		ug/L			498579	467450	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	90	109	118	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 22:33:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32522	2	Standard
	Cl	**37**		ug/L			3416101	3288169	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	434060	3	Standard
|	**Cr**	**52**	**2.227**	ug/L	0.006	0	16425	55098	3	Standard
|	**Cr**	**53**	**2.306**	ug/L	0.045	1	102	4753	1	Standard
⌊	**Mn**	**55**	**28.582**	ug/L	0.336	1	567	716090	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21449	0	KED
|	**Ni**	**60**	**1.817**	ug/L	0.047	2	20	1760	1	KED
|	**Ni**	**62**	**1.688**	ug/L	0.120	7	7	272	6	KED
|	**Cu**	**63**	**7.117**	ug/L	0.053	0	30	20357	1	KED
|	**Cu**	**65**	**6.974**	ug/L	0.091	1	24	9858	0	KED
|	**Zn**	**66**	**16.720**	ug/L	0.258	1	40	6371	0	KED
|	**Zn**	**67**	**15.287**	ug/L	0.614	4	3	992	3	KED
⌊	**As**	**75**	**0.342**	ug/L	0.036	10	5	70	8	KED
	Y	**89**		ug/L			208501	231742	0	Standard
	Kr	**83**		ug/L			52	55	15	Standard
⌈>	**In-1**	**115**		ug/L			6222	5879	2	KED
|	**Cd**	**111**	**0.037**	ug/L	0.026	68	2	10	56	KED
⌊	**Cd**	**114**	**0.019**	ug/L	0.017	92	6	16	55	KED
⌈>	**Tb**	**159**		ug/L			498579	487241	4	Standard
⌊	**Pb**	**208**	**4.696**	ug/L	0.134	2	109	190102	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-02
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:37:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	41956	3	Standard
	Cl	**37**		ug/L			3416101	3378365	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	523593	1	Standard
|	**Cr**	**52**	**9.601**	ug/L	0.139	1	16425	220265	2	Standard
|	**Cr**	**53**	**9.731**	ug/L	0.119	1	102	23798	0	Standard
⌊	**Mn**	**55**	**116.999**	ug/L	1.175	1	567	3534573	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22536	2	KED
|	**Ni**	**60**	**8.262**	ug/L	0.071	0	20	8337	1	KED
|	**Ni**	**62**	**8.396**	ug/L	0.447	5	7	1392	3	KED
|	**Cu**	**63**	**33.005**	ug/L	0.501	1	30	99053	0	KED
|	**Cu**	**65**	**33.527**	ug/L	0.980	2	24	49693	1	KED
|	**Zn**	**66**	**76.153**	ug/L	1.565	2	40	30340	0	KED
|	**Zn**	**67**	**71.244**	ug/L	0.828	1	3	4845	1	KED
⌊	**As**	**75**	**1.754**	ug/L	0.040	2	5	358	1	KED
	Y	**89**		ug/L			208501	371244	2	Standard
	Kr	**83**		ug/L			52	113	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	6324	0	KED
|	**Cd**	**111**	**0.174**	ug/L	0.020	11	2	42	10	KED
⌊	**Cd**	**114**	**0.135**	ug/L	0.014	10	6	82	10	KED
⌈>	**Tb**	**159**		ug/L			498579	531146	4	Standard
⌊	**Pb**	**208**	**21.617**	ug/L	0.789	3	109	953333	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:42:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36772	2	Standard
	Cl	**37**		ug/L			3416101	3375995	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	506211	2	Standard
|	**Cr**	**52**	**9.658**	ug/L	0.262	2	16425	214004	1	Standard
|	**Cr**	**53**	**9.833**	ug/L	0.190	1	102	23243	1	Standard
⌊	**Mn**	**55**	**115.608**	ug/L	0.960	0	567	3376336	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21583	2	KED
|	**Ni**	**60**	**8.330**	ug/L	0.283	3	20	8047	2	KED
|	**Ni**	**62**	**8.533**	ug/L	0.304	3	7	1355	1	KED
|	**Cu**	**63**	**32.897**	ug/L	0.837	2	30	94547	1	KED
|	**Cu**	**65**	**32.633**	ug/L	0.827	2	24	46333	2	KED
|	**Zn**	**66**	**76.416**	ug/L	1.804	2	40	29159	1	KED
|	**Zn**	**67**	**74.310**	ug/L	1.930	2	3	4839	0	KED
⌊	**As**	**75**	**2.318**	ug/L	0.044	1	5	451	1	KED
	Y	**89**		ug/L			208501	352283	3	Standard
	Kr	**83**		ug/L			52	80	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5976	0	KED
|	**Cd**	**111**	**0.176**	ug/L	0.012	6	2	40	5	KED
⌊	**Cd**	**114**	**0.154**	ug/L	0.002	1	6	87	1	KED
⌈>	**Tb**	**159**		ug/L			498579	501836	3	Standard
⌊	**Pb**	**208**	**24.170**	ug/L	0.734	3	109	1007279	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:46:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	37051	1	Standard
	Cl	**37**		ug/L			3416101	3404997	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	517829	2	Standard
|	**Cr**	**52**	**18.596**	ug/L	0.572	3	16425	403231	2	Standard
|	**Cr**	**53**	**19.040**	ug/L	0.162	0	102	45936	2	Standard
⌊	**Mn**	**55**	**125.449**	ug/L	2.341	1	567	3747523	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21663	1	KED
|	**Ni**	**60**	**19.261**	ug/L	0.741	3	20	18655	2	KED
|	**Ni**	**62**	**19.277**	ug/L	0.893	4	7	3065	3	KED
|	**Cu**	**63**	**43.535**	ug/L	1.449	3	30	125582	2	KED
|	**Cu**	**65**	**43.738**	ug/L	0.461	1	24	62326	0	KED
|	**Zn**	**66**	**122.251**	ug/L	2.016	1	40	46805	1	KED
|	**Zn**	**67**	**112.199**	ug/L	2.697	2	3	7333	1	KED
⌊	**As**	**75**	**11.299**	ug/L	0.229	2	5	2186	0	KED
	Y	**89**		ug/L			208501	359585	0	Standard
	Kr	**83**		ug/L			52	100	16	Standard
⌈>	**In-1**	**115**		ug/L			6222	6035	1	KED
|	**Cd**	**111**	**10.763**	ug/L	0.428	3	2	2354	2	KED
⌊	**Cd**	**114**	**10.472**	ug/L	0.051	0	6	5569	2	KED
⌈>	**Tb**	**159**		ug/L			498579	515767	1	Standard
⌊	**Pb**	**208**	**33.474**	ug/L	0.743	2	109	1434462	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:50:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	38200	0	Standard
	Cl	**37**		ug/L			3416101	3305780	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	507760	1	Standard
|	**Cr**	**52**	**18.989**	ug/L	0.239	1	16425	403464	2	Standard
|	**Cr**	**53**	**19.177**	ug/L	0.198	1	102	45364	1	Standard
⌊	**Mn**	**55**	**126.628**	ug/L	2.487	1	567	3710520	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21739	2	KED
|	**Ni**	**60**	**19.423**	ug/L	0.589	3	20	18877	2	KED
|	**Ni**	**62**	**19.445**	ug/L	0.250	1	7	3103	1	KED
|	**Cu**	**63**	**47.219**	ug/L	0.743	1	30	136689	0	KED
|	**Cu**	**65**	**47.803**	ug/L	0.325	0	24	68356	2	KED
|	**Zn**	**66**	**110.906**	ug/L	2.740	2	40	42603	0	KED
|	**Zn**	**67**	**104.372**	ug/L	0.788	0	3	6847	2	KED
⌊	**As**	**75**	**11.433**	ug/L	0.269	2	5	2219	1	KED
	Y	**89**		ug/L			208501	346328	3	Standard
	Kr	**83**		ug/L			52	99	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5908	2	KED
|	**Cd**	**111**	**10.936**	ug/L	0.366	3	2	2341	1	KED
⌊	**Cd**	**114**	**10.925**	ug/L	0.395	3	6	5683	0	KED
⌈>	**Tb**	**159**		ug/L			498579	511473	4	Standard
⌊	**Pb**	**208**	**32.254**	ug/L	1.247	3	109	1369407	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:55:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	40597	1	Standard
	Cl	**37**		ug/L			3416101	3372676	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	493028	5	Standard
|	**Cr**	**52**	**32.816**	ug/L	1.248	3	16425	662415	2	Standard
|	**Cr**	**53**	**32.977**	ug/L	1.155	3	102	75571	2	Standard
⌊	**Mn**	**55**	**143.695**	ug/L	5.791	4	567	4081614	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22147	2	KED
|	**Ni**	**60**	**33.665**	ug/L	0.675	2	20	33319	1	KED
|	**Ni**	**62**	**34.126**	ug/L	1.096	3	7	5540	0	KED
|	**Cu**	**63**	**59.760**	ug/L	1.464	2	30	176208	0	KED
|	**Cu**	**65**	**58.879**	ug/L	2.549	4	24	85715	1	KED
|	**Zn**	**66**	**159.591**	ug/L	3.387	2	40	62446	1	KED
|	**Zn**	**67**	**145.748**	ug/L	4.209	2	3	9736	1	KED
⌊	**As**	**75**	**27.034**	ug/L	0.535	1	5	5339	0	KED
	Y	**89**		ug/L			208501	354766	3	Standard
	Kr	**83**		ug/L			52	93	13	Standard
⌈>	**In-1**	**115**		ug/L			6222	5998	1	KED
|	**Cd**	**111**	**26.090**	ug/L	0.416	1	2	5670	1	KED
⌊	**Cd**	**114**	**26.836**	ug/L	0.291	1	6	14171	0	KED
⌈>	**Tb**	**159**		ug/L			498579	497269	5	Standard
⌊	**Pb**	**208**	**49.898**	ug/L	1.924	3	109	2059278	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:00:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	47045	1	Standard
	Cl	37		ug/L			3416101	3385921	2	Standard
>	Sc	45		ug/L			429622	685268	1	Standard
	Cr	52	17.143	ug/L	0.182	1	16425	494085	0	Standard
	Cr	53	17.234	ug/L	0.104	0	102	55042	1	Standard
	Mn	55	190.275	ug/L	4.153	2	567	7522792	2	Standard
>	Ge	72		ug/L			22652	21537	1	KED
	Ni	60	22.392	ug/L	0.505	2	20	21558	0	KED
	Ni	62	22.420	ug/L	1.356	6	7	3542	4	KED
	Cu	63	26.419	ug/L	0.610	2	30	75777	0	KED
	Cu	65	26.161	ug/L	0.468	1	24	37070	1	KED
	Zn	66	51.423	ug/L	1.774	3	40	19591	2	KED
	Zn	67	58.095	ug/L	4.014	6	3	3775	5	KED
	As	75	2.599	ug/L	0.149	5	5	504	4	KED
	Y	89		ug/L			208501	614899	1	Standard
	Kr	83		ug/L			52	228	3	Standard
>	In-1	115		ug/L			6222	6106	1	KED
	Cd	111	0.075	ug/L	0.024	32	2	18	28	KED
	Cd	114	0.070	ug/L	0.021	30	6	44	26	KED
>	Tb	159		ug/L			498579	527436	2	Standard
	Pb	208	4.237	ug/L	0.141	3	109	185694	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-19
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:04:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	51540	0	Standard
	Cl	37		ug/L			3416101	3417436	1	Standard
>	Sc	45		ug/L			429622	564025	1	Standard
	Cr	52	14.222	ug/L	0.329	2	16425	341054	1	Standard
	Cr	53	14.421	ug/L	0.326	2	102	37926	1	Standard
	Mn	55	216.875	ug/L	2.984	1	567	7057307	1	Standard
>	Ge	72		ug/L			22652	21188	3	KED
	Ni	60	13.438	ug/L	0.171	1	20	12735	2	KED
	Ni	62	13.466	ug/L	0.205	1	7	2097	4	KED
	Cu	63	44.581	ug/L	1.445	3	30	125710	1	KED
	Cu	65	44.501	ug/L	1.227	2	24	61985	1	KED
	Zn	66	131.471	ug/L	2.034	1	40	49247	5	KED
	Zn	67	124.551	ug/L	3.138	2	3	7958	1	KED
	As	75	3.635	ug/L	0.097	2	5	691	4	KED
	Y	89		ug/L			208501	460766	1	Standard
	Kr	83		ug/L			52	131	8	Standard
>	In-1	115		ug/L			6222	5719	2	KED
	Cd	111	0.290	ug/L	0.013	4	2	62	4	KED
	Cd	114	0.264	ug/L	0.028	10	6	139	12	KED
>	Tb	159		ug/L			498579	516331	2	Standard
	Pb	208	18.472	ug/L	0.421	2	109	792412	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-20
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:08:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	48665	1	Standard
	Cl	37		ug/L			3416101	3418241	0	Standard
>	Sc	45		ug/L			429622	629297	1	Standard
	Cr	52	16.157	ug/L	0.154	0	16425	428984	0	Standard
	Cr	53	16.497	ug/L	0.022	0	102	48391	1	Standard
	Mn	55	304.586	ug/L	3.680	1	567	11057174	1	Standard
>	Ge	72		ug/L			22652	21670	2	KED
	Ni	60	18.043	ug/L	0.081	0	20	17486	2	KED
	Ni	62	18.602	ug/L	0.486	2	7	2959	2	KED
	Cu	63	41.576	ug/L	0.481	1	30	119983	1	KED
	Cu	65	41.644	ug/L	0.583	1	24	59354	1	KED
	Zn	66	139.453	ug/L	3.679	2	40	53387	0	KED
	Zn	67	136.309	ug/L	2.978	2	3	8911	1	KED
	As	75	4.190	ug/L	0.060	1	5	814	1	KED
	Y	89		ug/L			208501	559884	2	Standard
	Kr	83		ug/L			52	187	4	Standard
>	In-1	115		ug/L			6222	5842	3	KED
	Cd	111	0.345	ug/L	0.071	20	2	74	19	KED
	Cd	114	0.248	ug/L	0.052	20	6	134	21	KED
>	Tb	159		ug/L			498579	523748	4	Standard
	Pb	208	27.593	ug/L	1.163	4	109	1199697	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-21
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:13:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	49977	2	Standard
Cl	37		ug/L			3416101	3370637	0	Standard
> Sc	45		ug/L			429622	598748	1	Standard
Cr	52	15.427	ug/L	0.163	1	16425	390813	2	Standard
Cr	53	15.516	ug/L	0.049	0	102	43314	1	Standard
Mn	55	292.092	ug/L	2.013	0	567	10089737	1	Standard
> Ge	72		ug/L			22652	21885	2	KED
Ni	60	18.065	ug/L	0.325	1	20	17678	1	KED
Ni	62	17.753	ug/L	0.483	2	7	2852	1	KED
Cu	63	29.005	ug/L	0.782	2	30	84544	2	KED
Cu	65	28.871	ug/L	0.678	2	24	41558	0	KED
Zn	66	127.421	ug/L	3.498	2	40	49268	1	KED
Zn	67	122.468	ug/L	4.460	3	3	8083	1	KED
As	75	3.292	ug/L	0.078	2	5	647	4	KED
Y	89		ug/L			208501	520524	4	Standard
Kr	83		ug/L			52	174	19	Standard
> In-1	115		ug/L			6222	6022	2	KED
Cd	111	0.200	ug/L	0.026	12	2	45	9	KED
Cd	114	0.187	ug/L	0.028	15	6	105	13	KED
> Tb	159		ug/L			498579	515472	2	Standard
Pb	208	18.841	ug/L	0.627	3	109	806722	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:20:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30212	2	Standard
	Cl	**37**		ug/L			3416101	3551990	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	419381	2	Standard
|	**Cr**	**52**	**50.352**	ug/L	0.880	1	16425	856958	1	Standard
|	**Cr**	**53**	**50.200**	ug/L	0.153	0	102	97928	1	Standard
⌊	**Mn**	**55**	**50.613**	ug/L	0.637	1	567	1224861	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21189	1	KED
|	**Ni**	**60**	**50.310**	ug/L	1.260	2	20	47635	1	KED
|	**Ni**	**62**	**49.288**	ug/L	0.553	1	7	7656	1	KED
|	**Cu**	**63**	**49.978**	ug/L	0.477	0	30	141036	0	KED
|	**Cu**	**65**	**49.692**	ug/L	0.477	0	24	69255	0	KED
|	**Zn**	**66**	**49.994**	ug/L	1.216	2	40	18748	3	KED
|	**Zn**	**67**	**49.241**	ug/L	0.933	1	3	3150	1	KED
⌊	**As**	**75**	**49.268**	ug/L	0.469	0	5	9307	0	KED
	Y	**89**		ug/L			208501	204002	1	Standard
	Kr	**83**		ug/L			52	70	9	Standard
⌈>	**In-1**	**115**		ug/L			6222	5743	1	KED
|	**Cd**	**111**	**50.781**	ug/L	1.134	2	2	10566	1	KED
⌊	**Cd**	**114**	**51.216**	ug/L	1.216	2	6	25889	1	KED
⌈>	**Tb**	**159**		ug/L			498579	487080	4	Standard
⌊	**Pb**	**208**	**51.990**	ug/L	2.142	4	109	2101826	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:27:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30670	0	Standard
	Cl	**37**		ug/L			3416101	3321596	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	432054	3	Standard
⎢	**Cr**	**52**	**-0.008**	ug/L	0.016	207	16425	16384	3	Standard
⎢	**Cr**	**53**	**-0.006**	ug/L	0.002	29	102	91	1	Standard
⎣	**Mn**	**55**	**0.001**	ug/L	0.002	180	567	594	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	21902	2	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.005	300	20	17	26	KED
⎢	**Ni**	**62**	**-0.030**	ug/L	0.007	24	7	2	43	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.005	408	30	33	43	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.002	57	24	17	19	KED
⎢	**Zn**	**66**	**-0.018**	ug/L	0.017	96	40	32	17	KED
⎢	**Zn**	**67**	**0.040**	ug/L	0.091	227	3	6	96	KED
⎣	**As**	**75**	**0.001**	ug/L	0.007	626	5	5	20	KED
	Y	**89**		ug/L			208501	205788	1	Standard
	Kr	**83**		ug/L			52	50	11	Standard
⎡>	**In-1**	**115**		ug/L			6222	6189	2	KED
⎢	**Cd**	**111**	**0.000**	ug/L	0.003	3125	2	2	24	KED
⎣	**Cd**	**114**	**-0.011**	ug/L	0.002	20	6	1	106	KED
⎡>	**Tb**	**159**		ug/L			498579	481385	5	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	70	109	132	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0516-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 23:31:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	126290	2	Standard
	Cl	**37**		ug/L			3416101	3454727	5	Standard
>	**Sc**	**45**		ug/L			429622	418378	9	Standard
	Cr	**52**	**75.268**	ug/L	3.264	4	16425	1266804	5	Standard
	Cr	**53**	**74.725**	ug/L	3.083	4	102	144995	5	Standard
	Mn	**55**	**14.440**	ug/L	0.534	3	567	348285	6	Standard
>	**Ge**	**72**		ug/L			22652	21749	0	KED
	Ni	**60**	**1.755**	ug/L	0.054	3	20	1724	2	KED
	Ni	**62**	**1.664**	ug/L	0.111	6	7	272	6	KED
	Cu	**63**	**3.591**	ug/L	0.047	1	30	10428	1	KED
	Cu	**65**	**3.646**	ug/L	0.108	2	24	5238	3	KED
	Zn	**66**	**281.671**	ug/L	1.980	0	40	108232	0	KED
	Zn	**67**	**255.077**	ug/L	1.242	0	3	16737	0	KED
	As	**75**	**0.097**	ug/L	0.016	16	5	24	12	KED
	Y	**89**		ug/L			208501	205690	8	Standard
	Kr	**83**		ug/L			52	57	12	Standard
>	**In-1**	**115**		ug/L			6222	6083	1	KED
	Cd	**111**	**1.673**	ug/L	0.043	2	2	370	1	KED
	Cd	**114**	**1.728**	ug/L	0.037	2	6	931	2	KED
>	**Tb**	**159**		ug/L			498579	480759	10	Standard
	Pb	**208**	**0.293**	ug/L	0.022	7	109	11740	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:36:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31900	2	Standard
	Cl	**37**		ug/L			3416101	3492233	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	409879	1	Standard
|	**Cr**	**52**	**0.053**	ug/L	0.038	71	16425	16528	2	Standard
|	**Cr**	**53**	**0.005**	ug/L	0.004	69	102	107	8	Standard
⌊	**Mn**	**55**	**0.007**	ug/L	0.001	11	567	697	4	Standard
⌈>	**Ge**	**72**		ug/L			22652	20922	2	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.001	16	20	10	10	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.006	141	7	6	17	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	29	30	38	10	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.003	57	24	14	32	KED
|	**Zn**	**66**	**0.017**	ug/L	0.016	95	40	43	15	KED
|	**Zn**	**67**	**0.065**	ug/L	0.033	50	3	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.003	408	5	5	9	KED
	Y	**89**		ug/L			208501	203292	1	Standard
	Kr	**83**		ug/L			52	36	7	Standard
⌈>	**In-1**	**115**		ug/L			6222	5742	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.005	228	2	2	43	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.002	26	6	2	42	KED
⌈>	**Tb**	**159**		ug/L			498579	472001	3	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	23	109	206	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 23:40:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32649	1	Standard
	Cl	**37**		ug/L			3416101	3253034	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	425265	2	Standard
|	**Cr**	**52**	**1.020**	ug/L	0.057	5	16425	33527	0	Standard
|	**Cr**	**53**	**1.047**	ug/L	0.050	4	102	2168	2	Standard
⌊	**Mn**	**55**	**16.483**	ug/L	0.400	2	567	404781	0	Standard
⌈>	**Ge**	**72**		ug/L			22652	21135	2	KED
|	**Ni**	**60**	**1.249**	ug/L	0.076	6	20	1198	6	KED
|	**Ni**	**62**	**1.369**	ug/L	0.016	1	7	219	3	KED
|	**Cu**	**63**	**2.217**	ug/L	0.146	6	30	6266	5	KED
|	**Cu**	**65**	**2.332**	ug/L	0.053	2	24	3263	2	KED
|	**Zn**	**66**	**8.665**	ug/L	0.286	3	40	3270	1	KED
|	**Zn**	**67**	**9.194**	ug/L	0.677	7	3	589	5	KED
⌊	**As**	**75**	**0.351**	ug/L	0.048	13	5	71	12	KED
	Y	**89**		ug/L			208501	227322	2	Standard
	Kr	**83**		ug/L			52	49	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5764	2	KED
|	**Cd**	**111**	**0.020**	ug/L	0.013	65	2	6	45	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.005	65	6	9	21	KED
⌈>	**Tb**	**159**		ug/L			498579	479840	4	Standard
⌊	**Pb**	**208**	**1.033**	ug/L	0.041	3	109	41262	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-20
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:44:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35033	0	Standard
	Cl	**37**		ug/L			3416101	3290985	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460960	3	Standard
|	**Cr**	**52**	**4.655**	ug/L	0.147	3	16425	103020	1	Standard
|	**Cr**	**53**	**4.734**	ug/L	0.129	2	102	10245	2	Standard
⌊	**Mn**	**55**	**73.655**	ug/L	1.474	2	567	1958308	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21056	0	KED
|	**Ni**	**60**	**6.295**	ug/L	0.208	3	20	5940	3	KED
|	**Ni**	**62**	**6.385**	ug/L	0.212	3	7	991	3	KED
|	**Cu**	**63**	**10.561**	ug/L	0.269	2	30	29640	2	KED
|	**Cu**	**65**	**10.862**	ug/L	0.403	3	24	15061	3	KED
|	**Zn**	**66**	**41.147**	ug/L	0.658	1	40	15339	1	KED
|	**Zn**	**67**	**39.417**	ug/L	0.431	1	3	2506	0	KED
⌊	**As**	**75**	**1.738**	ug/L	0.078	4	5	331	4	KED
	Y	**89**		ug/L			208501	316930	2	Standard
	Kr	**83**		ug/L			52	67	11	Standard
⌈>	**In-1**	**115**		ug/L			6222	5954	1	KED
|	**Cd**	**111**	**0.076**	ug/L	0.008	10	2	18	7	KED
⌊	**Cd**	**114**	**0.036**	ug/L	0.018	49	6	25	37	KED
⌈>	**Tb**	**159**		ug/L			498579	497293	3	Standard
⌊	**Pb**	**208**	**4.808**	ug/L	0.170	3	109	198630	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:49:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35797	1	Standard
	Cl	**37**		ug/L			3416101	3347294	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	459784	2	Standard
|	**Cr**	**52**	**4.687**	ug/L	0.074	1	16425	103402	1	Standard
|	**Cr**	**53**	**4.694**	ug/L	0.242	5	102	10129	2	Standard
⌊	**Mn**	**55**	**67.591**	ug/L	1.759	2	567	1792809	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	20840	1	KED
|	**Ni**	**60**	**5.902**	ug/L	0.233	3	20	5511	2	KED
|	**Ni**	**62**	**5.724**	ug/L	0.104	1	7	880	0	KED
|	**Cu**	**63**	**9.320**	ug/L	0.277	2	30	25885	1	KED
|	**Cu**	**65**	**9.390**	ug/L	0.165	1	24	12890	2	KED
|	**Zn**	**66**	**34.822**	ug/L	0.615	1	40	12851	0	KED
|	**Zn**	**67**	**33.653**	ug/L	1.167	3	3	2118	2	KED
⌊	**As**	**75**	**1.178**	ug/L	0.060	5	5	224	3	KED
	Y	**89**		ug/L			208501	306749	1	Standard
	Kr	**83**		ug/L			52	53	8	Standard
⌈>	**In-1**	**115**		ug/L			6222	5876	1	KED
|	**Cd**	**111**	**0.060**	ug/L	0.030	49	2	14	43	KED
⌊	**Cd**	**114**	**0.048**	ug/L	0.003	5	6	31	3	KED
⌈>	**Tb**	**159**		ug/L			498579	496358	3	Standard
⌊	**Pb**	**208**	**4.089**	ug/L	0.201	4	109	168581	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:53:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32912	0	Standard
	Cl	**37**		ug/L			3416101	3334208	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460075	0	Standard
|	**Cr**	**52**	**14.502**	ug/L	0.227	1	16425	283308	0	Standard
|	**Cr**	**53**	**14.394**	ug/L	0.123	0	102	30880	0	Standard
⌊	**Mn**	**55**	**85.617**	ug/L	0.808	0	567	2272998	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22261	0	KED
|	**Ni**	**60**	**17.596**	ug/L	0.226	1	20	17518	1	KED
|	**Ni**	**62**	**17.788**	ug/L	0.481	2	7	2907	2	KED
|	**Cu**	**63**	**23.105**	ug/L	0.450	1	30	68515	1	KED
|	**Cu**	**65**	**23.387**	ug/L	0.390	1	24	34259	1	KED
|	**Zn**	**66**	**73.872**	ug/L	0.615	0	40	29080	0	KED
|	**Zn**	**67**	**68.976**	ug/L	2.399	3	3	4634	2	KED
⌊	**As**	**75**	**10.929**	ug/L	0.298	2	5	2173	2	KED
	Y	**89**		ug/L			208501	321571	0	Standard
	Kr	**83**		ug/L			52	80	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6050	2	KED
|	**Cd**	**111**	**10.585**	ug/L	0.306	2	2	2321	0	KED
⌊	**Cd**	**114**	**10.567**	ug/L	0.408	3	6	5630	2	KED
⌈>	**Tb**	**159**		ug/L			498579	489777	2	Standard
⌊	**Pb**	**208**	**16.220**	ug/L	0.252	1	109	660173	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:58:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	36814	1	Standard
	Cl	37		ug/L			3416101	3384829	2	Standard
>	Sc	45		ug/L			429622	485303	2	Standard
	Cr	52	15.001	ug/L	0.399	2	16425	308396	0	Standard
	Cr	53	15.038	ug/L	0.548	3	102	34013	1	Standard
	Mn	55	85.300	ug/L	2.050	2	567	2387898	0	Standard
>	Ge	72		ug/L			22652	20951	1	KED
	Ni	60	17.724	ug/L	0.140	0	20	16607	1	KED
	Ni	62	17.576	ug/L	0.488	2	7	2704	3	KED
	Cu	63	21.632	ug/L	0.349	1	30	60372	1	KED
	Cu	65	21.864	ug/L	0.938	4	24	30129	2	KED
	Zn	66	93.011	ug/L	0.536	0	40	34452	1	KED
	Zn	67	87.834	ug/L	1.832	2	3	5552	0	KED
	As	75	10.987	ug/L	0.175	1	5	2056	2	KED
	Y	89		ug/L			208501	341865	2	Standard
	Kr	83		ug/L			52	95	14	Standard
>	In-1	115		ug/L			6222	5681	1	KED
	Cd	111	10.926	ug/L	0.240	2	2	2250	1	KED
	Cd	114	10.884	ug/L	0.257	2	6	5447	1	KED
>	Tb	159		ug/L			498579	513014	3	Standard
	Pb	208	15.431	ug/L	0.552	3	109	657413	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:02:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	34964	3	Standard
	Cl	**37**		ug/L			3416101	3410599	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	471137	4	Standard
|	**Cr**	**52**	**28.571**	ug/L	0.438	1	16425	553986	3	Standard
|	**Cr**	**53**	**28.824**	ug/L	0.722	2	102	63172	2	Standard
⌊	**Mn**	**55**	**98.487**	ug/L	1.472	1	567	2676206	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	22225	0	KED
|	**Ni**	**60**	**33.168**	ug/L	0.412	1	20	32952	1	KED
|	**Ni**	**62**	**32.724**	ug/L	0.076	0	7	5334	1	KED
|	**Cu**	**63**	**37.813**	ug/L	0.889	2	30	111950	2	KED
|	**Cu**	**65**	**37.570**	ug/L	0.919	2	24	54941	3	KED
|	**Zn**	**66**	**127.206**	ug/L	0.351	0	40	49970	1	KED
|	**Zn**	**67**	**116.589**	ug/L	2.888	2	3	7819	2	KED
⌊	**As**	**75**	**27.269**	ug/L	0.153	0	5	5406	0	KED
	Y	**89**		ug/L			208501	328580	2	Standard
	Kr	**83**		ug/L			52	61	34	Standard
⌈>	**In-1**	**115**		ug/L			6222	6056	0	KED
|	**Cd**	**111**	**26.468**	ug/L	0.294	1	2	5809	1	KED
⌊	**Cd**	**114**	**26.604**	ug/L	0.576	2	6	14186	2	KED
⌈>	**Tb**	**159**		ug/L			498579	500325	5	Standard
⌊	**Pb**	**208**	**32.342**	ug/L	1.456	4	109	1342547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRM2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:06:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35447	1	Standard
	Cl	**37**		ug/L			3416101	3348515	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	447131	1	Standard
|	**Cr**	**52**	**49.665**	ug/L	0.304	0	16425	901623	1	Standard
|	**Cr**	**53**	**50.854**	ug/L	0.480	0	102	105764	0	Standard
⌊	**Mn**	**55**	**121.689**	ug/L	1.435	1	567	3139587	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21066	1	KED
|	**Ni**	**60**	**80.835**	ug/L	2.018	2	20	76082	1	KED
|	**Ni**	**62**	**79.740**	ug/L	1.739	2	7	12310	2	KED
|	**Cu**	**63**	**33.104**	ug/L	0.818	2	30	92880	2	KED
|	**Cu**	**65**	**32.435**	ug/L	0.364	1	24	44951	1	KED
|	**Zn**	**66**	**37.528**	ug/L	0.917	2	40	13996	1	KED
|	**Zn**	**67**	**40.835**	ug/L	0.481	1	3	2598	2	KED
⌊	**As**	**75**	**19.282**	ug/L	0.217	1	5	3625	1	KED
	Y	**89**		ug/L			208501	277281	0	Standard
	Kr	**83**		ug/L			52	57	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5979	0	KED
|	**Cd**	**111**	**36.909**	ug/L	0.575	1	2	7996	1	KED
⌊	**Cd**	**114**	**37.227**	ug/L	0.378	1	6	19594	0	KED
⌈>	**Tb**	**159**		ug/L			498579	510486	3	Standard
⌊	**Pb**	**208**	**62.318**	ug/L	2.363	3	109	2641194	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:11:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	33038	2	Standard
	Cl	**37**		ug/L			3416101	3265330	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	418822	1	Standard
⎢	**Cr**	**52**	**-0.007**	ug/L	0.019	282	16425	15899	2	Standard
⎢	**Cr**	**53**	**-0.002**	ug/L	0.003	170	102	96	4	Standard
⎣	**Mn**	**55**	**0.008**	ug/L	0.001	12	567	740	4	Standard
⎡>	**Ge**	**72**		ug/L			22652	21130	3	KED
⎢	**Ni**	**60**	**-0.011**	ug/L	0.003	29	20	8	35	KED
⎢	**Ni**	**62**	**-0.025**	ug/L	0.007	26	7	3	34	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.003	27	30	53	11	KED
⎢	**Cu**	**65**	**0.006**	ug/L	0.004	70	24	30	21	KED
⎢	**Zn**	**66**	**0.020**	ug/L	0.019	95	40	45	12	KED
⎢	**Zn**	**67**	**0.015**	ug/L	0.077	501	3	4	107	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.014	1141	5	5	48	KED
	Y	**89**		ug/L			208501	206765	1	Standard
	Kr	**83**		ug/L			52	49	19	Standard
⎡>	**In-1**	**115**		ug/L			6222	5914	1	KED
⎢	**Cd**	**111**	**-0.001**	ug/L	0.005	507	2	1	50	KED
⎣	**Cd**	**114**	**-0.006**	ug/L	0.004	70	6	3	57	KED
⎡>	**Tb**	**159**		ug/L			498579	474330	3	Standard
⎣	**Pb**	**208**	**0.006**	ug/L	0.001	13	109	322	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:15:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31549	0	Standard
	Cl	**37**		ug/L			3416101	3523562	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	415244	3	Standard
⎢	**Cr**	**52**	**50.902**	ug/L	0.792	1	16425	857459	2	Standard
⎢	**Cr**	**53**	**50.076**	ug/L	1.593	3	102	96651	1	Standard
⎣	**Mn**	**55**	**51.084**	ug/L	0.995	1	567	1223740	2	Standard
⎡>	**Ge**	**72**		ug/L			22652	21010	2	KED
⎢	**Ni**	**60**	**50.376**	ug/L	1.711	3	20	47281	2	KED
⎢	**Ni**	**62**	**51.105**	ug/L	2.184	4	7	7866	2	KED
⎢	**Cu**	**63**	**49.628**	ug/L	1.217	2	30	138831	1	KED
⎢	**Cu**	**65**	**49.448**	ug/L	0.855	1	24	68323	1	KED
⎢	**Zn**	**66**	**51.617**	ug/L	1.455	2	40	19182	1	KED
⎢	**Zn**	**67**	**49.608**	ug/L	0.941	1	3	3146	1	KED
⎣	**As**	**75**	**49.810**	ug/L	1.132	2	5	9328	1	KED
	Y	**89**		ug/L			208501	208760	2	Standard
	Kr	**83**		ug/L			52	55	24	Standard
⎡>	**In-1**	**115**		ug/L			6222	5663	0	KED
⎢	**Cd**	**111**	**50.579**	ug/L	1.079	2	2	10380	2	KED
⎣	**Cd**	**114**	**51.126**	ug/L	0.563	1	6	25490	1	KED
⎡>	**Tb**	**159**		ug/L			498579	480987	4	Standard
⎣	**Pb**	**208**	**52.441**	ug/L	1.187	2	109	2094890	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:22:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29608	2	Standard
	Cl	**37**		ug/L			3416101	3285009	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	397909	0	Standard
|	**Cr**	**52**	**-0.002**	ug/L	0.018	788	16425	15176	1	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.003	36	102	80	6	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	126	567	501	6	Standard
⌈>	**Ge**	**72**		ug/L			22652	20223	3	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.001	13	20	10	10	KED
|	**Ni**	**62**	**-0.012**	ug/L	0.019	155	7	5	57	KED
|	**Cu**	**63**	**0.000**	ug/L	0.003	1022	30	27	27	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.007	172	24	16	53	KED
|	**Zn**	**66**	**-0.023**	ug/L	0.010	41	40	27	10	KED
|	**Zn**	**67**	**0.018**	ug/L	0.021	117	3	4	24	KED
⌊	**As**	**75**	**0.002**	ug/L	0.020	815	5	5	62	KED
	Y	**89**		ug/L			208501	194885	0	Standard
	Kr	**83**		ug/L			52	38	15	Standard
⌈>	**In-1**	**115**		ug/L			6222	5602	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.007	265	2	2	57	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.002	22	6	1	86	KED
⌈>	**Tb**	**159**		ug/L			498579	452147	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	111	109	111	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:26:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	34922	4	Standard
	Cl	**37**		ug/L			3416101	3348788	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	449099	0	Standard
|	**Cr**	**52**	**1.330**	ug/L	0.039	2	16425	40962	2	Standard
|	**Cr**	**53**	**1.358**	ug/L	0.030	2	102	2940	1	Standard
⌊	**Mn**	**55**	**29.261**	ug/L	0.539	1	567	758777	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	20964	1	KED
|	**Ni**	**60**	**1.621**	ug/L	0.083	5	20	1536	4	KED
|	**Ni**	**62**	**1.623**	ug/L	0.156	9	7	256	10	KED
|	**Cu**	**63**	**2.921**	ug/L	0.066	2	30	8182	1	KED
|	**Cu**	**65**	**3.025**	ug/L	0.092	3	24	4192	2	KED
|	**Zn**	**66**	**12.272**	ug/L	0.389	3	40	4581	3	KED
|	**Zn**	**67**	**12.200**	ug/L	1.184	9	3	774	8	KED
⌊	**As**	**75**	**0.295**	ug/L	0.013	4	5	60	4	KED
	Y	**89**		ug/L			208501	243670	1	Standard
	Kr	**83**		ug/L			52	61	6	Standard
⌈>	**In-1**	**115**		ug/L			6222	5749	3	KED
|	**Cd**	**111**	**0.030**	ug/L	0.013	44	2	8	35	KED
⌊	**Cd**	**114**	**0.035**	ug/L	0.006	16	6	23	12	KED
⌈>	**Tb**	**159**		ug/L			498579	500269	4	Standard
⌊	**Pb**	**208**	**1.550**	ug/L	0.043	2	109	64498	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22J0097-31
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:31:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39535	2	Standard
	Cl	**37**		ug/L			3416101	3356703	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	479478	1	Standard
|	**Cr**	**52**	**5.988**	ug/L	0.067	1	16425	132683	1	Standard
|	**Cr**	**53**	**6.005**	ug/L	0.103	1	102	13494	2	Standard
⌊	**Mn**	**55**	**126.181**	ug/L	2.053	1	567	3491219	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	20909	2	KED
|	**Ni**	**60**	**8.197**	ug/L	0.089	1	20	7674	1	KED
|	**Ni**	**62**	**8.210**	ug/L	0.344	4	7	1263	1	KED
|	**Cu**	**63**	**14.457**	ug/L	0.350	2	30	40263	0	KED
|	**Cu**	**65**	**14.441**	ug/L	0.055	0	24	19879	2	KED
|	**Zn**	**66**	**59.092**	ug/L	2.281	3	40	21843	1	KED
|	**Zn**	**67**	**55.515**	ug/L	1.719	3	3	3504	3	KED
⌊	**As**	**75**	**1.308**	ug/L	0.060	4	5	249	4	KED
	Y	**89**		ug/L			208501	322274	2	Standard
	Kr	**83**		ug/L			52	73	10	Standard
⌈>	**In-1**	**115**		ug/L			6222	5662	1	KED
|	**Cd**	**111**	**0.148**	ug/L	0.014	9	2	32	10	KED
⌊	**Cd**	**114**	**0.138**	ug/L	0.041	29	6	74	25	KED
⌈>	**Tb**	**159**		ug/L			498579	494083	4	Standard
⌊	**Pb**	**208**	**7.331**	ug/L	0.314	4	109	300671	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:35:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	41675	2	Standard
	Cl	**37**		ug/L			3416101	3408444	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	483118	3	Standard
|	**Cr**	**52**	**6.064**	ug/L	0.060	0	16425	135147	2	Standard
|	**Cr**	**53**	**6.182**	ug/L	0.042	0	102	13992	3	Standard
⌊	**Mn**	**55**	**134.781**	ug/L	1.835	1	567	3756019	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21760	0	KED
|	**Ni**	**60**	**7.953**	ug/L	0.084	1	20	7751	1	KED
|	**Ni**	**62**	**7.725**	ug/L	0.349	4	7	1238	4	KED
|	**Cu**	**63**	**14.760**	ug/L	0.041	0	30	42799	0	KED
|	**Cu**	**65**	**15.084**	ug/L	0.311	2	24	21608	2	KED
|	**Zn**	**66**	**60.944**	ug/L	1.187	1	40	23461	2	KED
|	**Zn**	**67**	**59.377**	ug/L	1.213	2	3	3900	2	KED
⌊	**As**	**75**	**1.547**	ug/L	0.061	3	5	305	4	KED
	Y	**89**		ug/L			208501	332178	3	Standard
	Kr	**83**		ug/L			52	74	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6094	2	KED
|	**Cd**	**111**	**0.128**	ug/L	0.010	7	2	30	9	KED
⌊	**Cd**	**114**	**0.127**	ug/L	0.011	8	6	75	5	KED
⌈>	**Tb**	**159**		ug/L			498579	502605	2	Standard
⌊	**Pb**	**208**	**7.113**	ug/L	0.179	2	109	297064	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:40:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	40716	1	Standard
	Cl	**37**		ug/L			3416101	3511424	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	504591	1	Standard
|	**Cr**	**52**	**16.094**	ug/L	0.104	0	16425	342721	1	Standard
|	**Cr**	**53**	**16.277**	ug/L	0.403	2	102	38275	1	Standard
⌊	**Mn**	**55**	**135.860**	ug/L	2.804	2	567	3954824	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22057	0	KED
|	**Ni**	**60**	**18.688**	ug/L	0.479	2	20	18433	2	KED
|	**Ni**	**62**	**18.273**	ug/L	0.076	0	7	2959	0	KED
|	**Cu**	**63**	**24.922**	ug/L	0.315	1	30	73229	1	KED
|	**Cu**	**65**	**25.258**	ug/L	0.179	0	24	36659	0	KED
|	**Zn**	**66**	**90.053**	ug/L	0.819	0	40	35118	0	KED
|	**Zn**	**67**	**83.877**	ug/L	2.281	2	3	5583	2	KED
⌊	**As**	**75**	**11.217**	ug/L	0.121	1	5	2210	0	KED
	Y	**89**		ug/L			208501	349782	1	Standard
	Kr	**83**		ug/L			52	86	5	Standard
⌈>	**In-1**	**115**		ug/L			6222	5892	0	KED
|	**Cd**	**111**	**10.592**	ug/L	0.146	1	2	2263	0	KED
⌊	**Cd**	**114**	**10.765**	ug/L	0.086	0	6	5588	1	KED
⌈>	**Tb**	**159**		ug/L			498579	515423	4	Standard
⌊	**Pb**	**208**	**17.577**	ug/L	0.477	2	109	752437	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:44:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39126	3	Standard
	Cl	**37**		ug/L			3416101	3486444	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	482324	2	Standard
|	**Cr**	**52**	**15.556**	ug/L	0.284	1	16425	317229	2	Standard
|	**Cr**	**53**	**15.536**	ug/L	0.343	2	102	34926	1	Standard
⌊	**Mn**	**55**	**134.850**	ug/L	1.275	0	567	3753412	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21584	3	KED
|	**Ni**	**60**	**18.719**	ug/L	1.065	5	20	18043	2	KED
|	**Ni**	**62**	**18.213**	ug/L	0.565	3	7	2884	1	KED
|	**Cu**	**63**	**23.531**	ug/L	1.141	4	30	67586	1	KED
|	**Cu**	**65**	**23.837**	ug/L	0.672	2	24	33833	0	KED
|	**Zn**	**66**	**86.113**	ug/L	1.343	1	40	32852	2	KED
|	**Zn**	**67**	**82.952**	ug/L	3.165	3	3	5399	0	KED
⌊	**As**	**75**	**10.761**	ug/L	0.444	4	5	2073	0	KED
	Y	**89**		ug/L			208501	330446	2	Standard
	Kr	**83**		ug/L			52	88	25	Standard
⌈>	**In-1**	**115**		ug/L			6222	5946	3	KED
|	**Cd**	**111**	**10.366**	ug/L	0.442	4	2	2232	0	KED
⌊	**Cd**	**114**	**10.383**	ug/L	0.401	3	6	5435	0	KED
⌈>	**Tb**	**159**		ug/L			498579	498626	5	Standard
⌊	**Pb**	**208**	**17.243**	ug/L	0.649	3	109	713675	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:48:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39631	1	Standard
	Cl	**37**		ug/L			3416101	3480784	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	475060	3	Standard
|	**Cr**	**52**	**29.015**	ug/L	0.275	0	16425	567116	2	Standard
|	**Cr**	**53**	**29.339**	ug/L	0.944	3	102	64838	0	Standard
⌊	**Mn**	**55**	**148.145**	ug/L	2.566	1	567	4059387	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21218	3	KED
|	**Ni**	**60**	**34.525**	ug/L	2.219	6	20	32700	3	KED
|	**Ni**	**62**	**33.620**	ug/L	2.261	6	7	5224	3	KED
|	**Cu**	**63**	**40.486**	ug/L	0.677	1	30	114374	2	KED
|	**Cu**	**65**	**40.412**	ug/L	1.213	3	24	56368	1	KED
|	**Zn**	**66**	**140.509**	ug/L	5.328	3	40	52641	0	KED
|	**Zn**	**67**	**127.382**	ug/L	4.135	3	3	8149	0	KED
⌊	**As**	**75**	**26.881**	ug/L	0.424	1	5	5086	2	KED
	Y	**89**		ug/L			208501	323490	1	Standard
	Kr	**83**		ug/L			52	71	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5889	1	KED
|	**Cd**	**111**	**26.119**	ug/L	0.324	1	2	5574	1	KED
⌊	**Cd**	**114**	**25.931**	ug/L	0.461	1	6	13443	0	KED
⌈>	**Tb**	**159**		ug/L			498579	489147	3	Standard
⌊	**Pb**	**208**	**34.790**	ug/L	1.298	3	109	1413058	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:53:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46647	1	Standard
	Cl	37		ug/L			3416101	3405859	0	Standard
⌈>	Sc	45		ug/L			429622	594943	1	Standard
|	Cr	52	15.424	ug/L	0.093	0	16425	388245	1	Standard
|	Cr	53	15.517	ug/L	0.102	0	102	43042	1	Standard
⌊	Mn	55	249.521	ug/L	2.460	0	567	8564244	0	Standard
⌈>	Ge	72		ug/L			22652	21286	3	KED
|	Ni	60	18.460	ug/L	0.346	1	20	17569	2	KED
|	Ni	62	18.434	ug/L	0.495	2	7	2882	5	KED
|	Cu	63	24.700	ug/L	0.423	1	30	70032	3	KED
|	Cu	65	24.571	ug/L	0.725	2	24	34400	2	KED
|	Zn	66	101.763	ug/L	1.283	1	40	38282	2	KED
|	Zn	67	101.524	ug/L	3.165	3	3	6525	6	KED
⌊	As	75	2.650	ug/L	0.046	1	5	508	2	KED
	Y	89		ug/L			208501	486889	1	Standard
	Kr	83		ug/L			52	164	14	Standard
⌈>	In-1	115		ug/L			6222	5878	1	KED
|	Cd	111	0.097	ug/L	0.012	12	2	22	12	KED
⌊	Cd	114	0.139	ug/L	0.014	9	6	78	7	KED
⌈>	Tb	159		ug/L			498579	522849	3	Standard
⌊	Pb	208	16.496	ug/L	0.527	3	109	716386	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:57:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49707	3	Standard
	Cl	37		ug/L			3416101	3375822	2	Standard
>	Sc	45		ug/L			429622	631410	2	Standard
	Cr	52	16.254	ug/L	0.332	2	16425	432749	0	Standard
	Cr	53	16.355	ug/L	0.094	0	102	48134	2	Standard
	Mn	55	361.561	ug/L	7.156	1	567	13166082	1	Standard
>	Ge	72		ug/L			22652	21940	3	KED
	Ni	60	19.399	ug/L	1.182	6	20	19009	3	KED
	Ni	62	20.068	ug/L	0.721	3	7	3230	0	KED
	Cu	63	36.371	ug/L	1.353	3	30	106211	0	KED
	Cu	65	36.300	ug/L	1.330	3	24	52357	0	KED
	Zn	66	146.723	ug/L	5.535	3	40	56849	1	KED
	Zn	67	147.496	ug/L	5.946	4	3	9758	2	KED
	As	75	3.885	ug/L	0.174	4	5	764	1	KED
	Y	89		ug/L			208501	578449	1	Standard
	Kr	83		ug/L			52	203	4	Standard
>	In-1	115		ug/L			6222	5878	2	KED
	Cd	111	0.286	ug/L	0.048	16	2	62	13	KED
	Cd	114	0.254	ug/L	0.036	14	6	137	11	KED
>	Tb	159		ug/L			498579	511039	3	Standard
	Pb	208	24.627	ug/L	0.893	3	109	1044983	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:01:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46574	0	Standard
	Cl	37		ug/L			3416101	3379169	1	Standard
>	Sc	45		ug/L			429622	620291	2	Standard
	Cr	52	16.437	ug/L	0.163	0	16425	429814	2	Standard
	Cr	53	16.626	ug/L	0.381	2	102	48058	0	Standard
	Mn	55	310.654	ug/L	1.107	0	567	11117349	2	Standard
>	Ge	72		ug/L			22652	20581	1	KED
	Ni	60	18.856	ug/L	0.425	2	20	17354	1	KED
	Ni	62	18.790	ug/L	0.725	3	7	2839	3	KED
	Cu	63	42.128	ug/L	0.806	1	30	115476	1	KED
	Cu	65	43.333	ug/L	0.599	1	24	58666	0	KED
	Zn	66	139.400	ug/L	1.715	1	40	50705	1	KED
	Zn	67	136.427	ug/L	3.426	2	3	8471	1	KED
	As	75	4.058	ug/L	0.128	3	5	749	2	KED
	Y	89		ug/L			208501	559074	0	Standard
	Kr	83		ug/L			52	189	11	Standard
>	In-1	115		ug/L			6222	5607	3	KED
	Cd	111	0.260	ug/L	0.013	5	2	54	7	KED
	Cd	114	0.305	ug/L	0.045	14	6	156	12	KED
>	Tb	159		ug/L			498579	504952	3	Standard
	Pb	208	32.193	ug/L	1.171	3	109	1349703	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-31
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:06:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	48674	1	Standard
	Cl	37		ug/L			3416101	3409450	1	Standard
>	Sc	45		ug/L			429622	586958	3	Standard
	Cr	52	14.692	ug/L	0.342	2	16425	365754	0	Standard
	Cr	53	14.966	ug/L	0.221	1	102	40948	1	Standard
	Mn	55	241.038	ug/L	5.247	2	567	8159092	1	Standard
>	Ge	72		ug/L			22652	21147	1	KED
	Ni	60	14.830	ug/L	0.291	1	20	14029	3	KED
	Ni	62	15.157	ug/L	0.503	3	7	2355	4	KED
	Cu	63	47.502	ug/L	0.903	1	30	133772	1	KED
	Cu	65	47.669	ug/L	1.367	2	24	66297	2	KED
	Zn	66	146.123	ug/L	4.631	3	40	54602	3	KED
	Zn	67	139.180	ug/L	2.017	1	3	8881	2	KED
	As	75	3.995	ug/L	0.157	3	5	758	4	KED
	Y	89		ug/L			208501	485316	1	Standard
	Kr	83		ug/L			52	172	15	Standard
>	In-1	115		ug/L			6222	5895	2	KED
	Cd	111	0.240	ug/L	0.017	7	2	53	4	KED
	Cd	114	0.266	ug/L	0.009	3	6	144	2	KED
>	Tb	159		ug/L			498579	512635	3	Standard
	Pb	208	21.533	ug/L	0.668	3	109	916743	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:13:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30368	2	Standard
	Cl	**37**		ug/L			3416101	3570879	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	419169	3	Standard
|	**Cr**	**52**	**50.270**	ug/L	1.224	2	16425	854922	0	Standard
|	**Cr**	**53**	**50.770**	ug/L	1.391	2	102	98937	0	Standard
⌊	**Mn**	**55**	**50.084**	ug/L	1.680	3	567	1210902	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21180	2	KED
|	**Ni**	**60**	**51.753**	ug/L	1.036	2	20	48976	1	KED
|	**Ni**	**62**	**51.052**	ug/L	2.579	5	7	7929	6	KED
|	**Cu**	**63**	**50.944**	ug/L	0.989	1	30	143703	2	KED
|	**Cu**	**65**	**51.042**	ug/L	0.865	1	24	71101	1	KED
|	**Zn**	**66**	**51.780**	ug/L	1.563	3	40	19408	4	KED
|	**Zn**	**67**	**50.621**	ug/L	1.036	2	3	3238	4	KED
⌊	**As**	**75**	**50.796**	ug/L	1.125	2	5	9592	3	KED
	Y	**89**		ug/L			208501	202177	1	Standard
	Kr	**83**		ug/L			52	60	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	5749	3	KED
|	**Cd**	**111**	**50.886**	ug/L	1.092	2	2	10596	1	KED
⌊	**Cd**	**114**	**50.648**	ug/L	2.013	3	6	25613	0	KED
⌈>	**Tb**	**159**		ug/L			498579	476193	3	Standard
⌊	**Pb**	**208**	**53.265**	ug/L	1.057	1	109	2106985	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:20:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31339	3	Standard
	Cl	**37**		ug/L			3416101	3285110	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	418292	0	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.016	599	16425	16035	0	Standard
|	**Cr**	**53**	**-0.010**	ug/L	0.004	37	102	80	9	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	74	567	580	4	Standard
⌈>	**Ge**	**72**		ug/L			22652	21236	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.006	182	20	15	38	KED
|	**Ni**	**62**	**-0.017**	ug/L	0.018	106	7	4	65	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.001	16499	30	28	11	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	60	24	20	5	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.022	107	40	30	28	KED
|	**Zn**	**67**	**0.014**	ug/L	0.047	331	3	4	65	KED
⌊	**As**	**75**	**0.004**	ug/L	0.008	242	5	6	27	KED
	Y	**89**		ug/L			208501	206206	1	Standard
	Kr	**83**		ug/L			52	48	18	Standard
⌈>	**In-1**	**115**		ug/L			6222	6125	1	KED
|	**Cd**	**111**	**0.006**	ug/L	0.006	110	2	3	41	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.003	36	6	1	108	KED
⌈>	**Tb**	**159**		ug/L			498579	482087	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	80	109	119	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:24:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				31215	3	Standard
	Cl	**37**		ug/L				3324914	1	Standard
>	**Sc**	**45**		ug/L				423672	1	Standard
	Cr	**52**		ug/L				16311	0	Standard
	Cr	**53**		ug/L				93	12	Standard
	Mn	**55**		ug/L				527	6	Standard
>	**Ge**	**72**		ug/L				20993	1	KED
	Ni	**60**		ug/L				13	55	KED
	Ni	**62**		ug/L				8	13	KED
	Cu	**63**		ug/L				34	20	KED
	Cu	**65**		ug/L				19	33	KED
	Zn	**66**		ug/L				36	29	KED
	Zn	**67**		ug/L				4	24	KED
	As	**75**		ug/L				5	65	KED
	Y	**89**		ug/L				210865	1	Standard
	Kr	**83**		ug/L				43	25	Standard
>	**In-1**	**115**		ug/L				5860	1	KED
	Cd	**111**		ug/L				2	65	KED
	Cd	**114**		ug/L				6	64	KED
>	**Tb**	**159**		ug/L				480478	3	Standard
	Pb	**208**		ug/L				115	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:29:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30410	1	Standard
	Cl	**37**		ug/L			3324914	3533632	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	415267	1	Standard
⎢	**Cr**	**52**	**50.339**	ug/L	0.745	1	16311	848570	2	Standard
⎢	**Cr**	**53**	**50.964**	ug/L	0.136	0	93	98439	2	Standard
⎣	**Mn**	**55**	**51.220**	ug/L	0.873	1	527	1227305	0	Standard
⎡>	**Ge**	**72**		ug/L			20993	20455	1	KED
⎢	**Ni**	**60**	**52.423**	ug/L	1.522	2	13	47904	1	KED
⎢	**Ni**	**62**	**50.669**	ug/L	0.498	0	8	7599	1	KED
⎢	**Cu**	**63**	**50.445**	ug/L	1.112	2	34	137412	1	KED
⎢	**Cu**	**65**	**52.156**	ug/L	0.999	1	19	70164	1	KED
⎢	**Zn**	**66**	**52.910**	ug/L	1.068	2	36	19145	0	KED
⎢	**Zn**	**67**	**50.709**	ug/L	3.410	6	4	3132	6	KED
⎣	**As**	**75**	**51.420**	ug/L	0.890	1	5	9376	0	KED
	Y	**89**		ug/L			210865	201534	0	Standard
	Kr	**83**		ug/L			43	54	27	Standard
⎡>	**In-1**	**115**		ug/L			5860	5660	2	KED
⎢	**Cd**	**111**	**51.014**	ug/L	1.517	2	2	10458	1	KED
⎣	**Cd**	**114**	**51.849**	ug/L	2.429	4	6	25813	2	KED
⎡>	**Tb**	**159**		ug/L			480478	479037	3	Standard
⎣	**Pb**	**208**	**53.159**	ug/L	1.813	3	115	2114474	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:36:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31165	2	Standard
	Cl	**37**		ug/L			3324914	3329784	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	426875	1	Standard
|	**Cr**	**52**	**-0.005**	ug/L	0.012	246	16311	16356	2	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.004	173	93	89	8	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.002	284	527	544	6	Standard
⌈>	**Ge**	**72**		ug/L			20993	20742	3	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.004	217	13	12	36	KED
|	**Ni**	**62**	**-0.037**	ug/L	0.007	17	8	2	43	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.006	299	34	28	52	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	200	19	17	29	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.025	715	36	34	24	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.002	19	4	3	0	KED
⌊	**As**	**75**	**0.000**	ug/L	0.006	2281	5	5	22	KED
	Y	**89**		ug/L			210865	208508	2	Standard
	Kr	**83**		ug/L			43	39	12	Standard
⌈>	**In-1**	**115**		ug/L			5860	5855	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.000	1	2	0		KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.004	58	6	2	90	KED
⌈>	**Tb**	**159**		ug/L			480478	486295	4	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	79	115	144	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-32
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:40:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	47430	1	Standard
	Cl	37		ug/L			3324914	3368037	1	Standard
>	Sc	45		ug/L			423672	601779	0	Standard
	Cr	52	16.522	ug/L	0.372	2	16311	419148	1	Standard
	Cr	53	16.646	ug/L	0.181	1	93	46679	0	Standard
	Mn	55	327.325	ug/L	7.378	2	527	11363166	1	Standard
>	Ge	72		ug/L			20993	21197	3	KED
	Ni	60	16.507	ug/L	0.507	3	13	15641	3	KED
	Ni	62	16.177	ug/L	0.634	3	8	2518	1	KED
	Cu	63	51.946	ug/L	1.767	3	34	146561	0	KED
	Cu	65	52.307	ug/L	2.288	4	19	72866	1	KED
	Zn	66	195.429	ug/L	7.415	3	36	73139	0	KED
	Zn	67	181.352	ug/L	1.323	0	4	11598	2	KED
	As	75	8.616	ug/L	0.464	5	5	1631	2	KED
	Y	89		ug/L			210865	532450	2	Standard
	Kr	83		ug/L			43	184	6	Standard
>	In-1	115		ug/L			5860	5959	1	KED
	Cd	111	0.320	ug/L	0.013	3	2	71	3	KED
	Cd	114	0.335	ug/L	0.034	10	6	182	11	KED
>	Tb	159		ug/L			480478	513542	3	Standard
	Pb	208	31.833	ug/L	1.256	3	115	1357412	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-33
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:45:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	46760	2	Standard
	Cl	37		ug/L			3324914	3370349	2	Standard
>	Sc	45		ug/L			423672	616916	7	Standard
	Cr	52	18.433	ug/L	0.905	4	16311	475752	4	Standard
	Cr	53	18.375	ug/L	0.837	4	93	52704	3	Standard
	Mn	55	328.329	ug/L	21.549	6	527	11648759	0	Standard
>	Ge	72		ug/L			20993	21133	1	KED
	Ni	60	17.603	ug/L	0.206	1	13	16631	0	KED
	Ni	62	17.939	ug/L	0.688	3	8	2784	2	KED
	Cu	63	39.902	ug/L	0.541	1	34	112315	1	KED
	Cu	65	41.396	ug/L	1.102	2	19	57544	2	KED
	Zn	66	129.299	ug/L	0.136	0	36	48294	1	KED
	Zn	67	135.131	ug/L	3.443	2	4	8617	2	KED
	As	75	4.152	ug/L	0.070	1	5	787	2	KED
	Y	89		ug/L			210865	562736	4	Standard
	Kr	83		ug/L			43	194	3	Standard
>	In-1	115		ug/L			5860	5645	2	KED
	Cd	111	0.253	ug/L	0.012	4	2	53	5	KED
	Cd	114	0.258	ug/L	0.028	10	6	134	11	KED
>	Tb	159		ug/L			480478	509158	8	Standard
	Pb	208	26.696	ug/L	1.971	7	115	1125158	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-34
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:49:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	53033	2	Standard
	Cl	37		ug/L			3324914	3435881	2	Standard
>	Sc	45		ug/L			423672	639136	2	Standard
	Cr	52	15.610	ug/L	0.268	1	16311	421929	1	Standard
	Cr	53	15.992	ug/L	0.334	2	93	47629	2	Standard
	Mn	55	366.184	ug/L	3.439	0	527	13500947	1	Standard
>	Ge	72		ug/L			20993	20959	1	KED
	Ni	60	19.547	ug/L	0.592	3	13	18311	1	KED
	Ni	62	18.803	ug/L	0.613	3	8	2894	2	KED
	Cu	63	33.498	ug/L	0.229	0	34	93520	0	KED
	Cu	65	34.601	ug/L	0.928	2	19	47696	1	KED
	Zn	66	135.814	ug/L	2.312	1	36	50306	2	KED
	Zn	67	129.502	ug/L	4.251	3	4	8192	4	KED
	As	75	3.670	ug/L	0.067	1	5	690	0	KED
	Y	89		ug/L			210865	586010	1	Standard
	Kr	83		ug/L			43	198	7	Standard
>	In-1	115		ug/L			5860	5826	3	KED
	Cd	111	0.237	ug/L	0.042	17	2	52	13	KED
	Cd	114	0.226	ug/L	0.040	17	6	122	16	KED
>	Tb	159		ug/L			480478	509025	4	Standard
	Pb	208	22.278	ug/L	0.970	4	115	941331	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-35
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:53:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	53495	1	Standard
Cl	37		ug/L			3324914	3442905	3	Standard
> Sc	45		ug/L			423672	649120	1	Standard
Cr	52	16.129	ug/L	0.165	1	16311	441961	0	Standard
Cr	53	16.446	ug/L	0.311	1	93	49740	0	Standard
Mn	55	352.484	ug/L	7.758	2	527	13197249	0	Standard
> Ge	72		ug/L			20993	21571	0	KED
Ni	60	19.398	ug/L	0.279	1	13	18708	1	KED
Ni	62	19.245	ug/L	1.152	5	8	3049	5	KED
Cu	63	33.397	ug/L	0.874	2	34	95960	2	KED
Cu	65	34.057	ug/L	0.866	2	19	48327	2	KED
Zn	66	119.194	ug/L	1.225	1	36	45446	1	KED
Zn	67	115.284	ug/L	4.312	3	4	7506	4	KED
As	75	3.665	ug/L	0.052	1	5	710	1	KED
Y	89		ug/L			210865	596151	1	Standard
Kr	83		ug/L			43	217	4	Standard
> In-1	115		ug/L			5860	5762	3	KED
Cd	111	0.243	ug/L	0.016	6	2	53	7	KED
Cd	114	0.257	ug/L	0.014	5	6	136	2	KED
> Tb	159		ug/L			480478	512855	1	Standard
Pb	208	23.389	ug/L	0.661	2	115	996579	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-36
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:58:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	51564	1	Standard
	Cl	37		ug/L			3324914	3466463	0	Standard
>	Sc	45		ug/L			423672	618270	1	Standard
	Cr	52	15.229	ug/L	0.337	2	16311	398784	1	Standard
	Cr	53	15.418	ug/L	0.190	1	93	44429	0	Standard
	Mn	55	235.788	ug/L	5.491	2	527	8409526	1	Standard
>	Ge	72		ug/L			20993	20958	0	KED
	Ni	60	22.558	ug/L	0.091	0	13	21134	0	KED
	Ni	62	21.853	ug/L	0.428	1	8	3362	1	KED
	Cu	63	27.442	ug/L	0.702	2	34	76617	2	KED
	Cu	65	28.159	ug/L	0.302	1	19	38827	0	KED
	Zn	66	103.456	ug/L	2.217	2	36	38326	1	KED
	Zn	67	102.675	ug/L	1.600	1	4	6494	1	KED
	As	75	2.435	ug/L	0.090	3	5	460	3	KED
	Y	89		ug/L			210865	490363	1	Standard
	Kr	83		ug/L			43	172	18	Standard
>	In-1	115		ug/L			5860	5712	2	KED
	Cd	111	0.113	ug/L	0.040	35	2	25	33	KED
	Cd	114	0.114	ug/L	0.007	6	6	63	7	KED
>	Tb	159		ug/L			480478	520040	1	Standard
	Pb	208	15.939	ug/L	0.349	2	115	688799	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-38
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:02:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	56130	2	Standard
Cl	37		ug/L			3324914	3449843	1	Standard
> Sc	45		ug/L			423672	655524	3	Standard
Cr	52	15.694	ug/L	0.226	1	16311	434877	2	Standard
Cr	53	15.833	ug/L	0.337	2	93	48350	1	Standard
Mn	55	251.145	ug/L	6.787	2	527	9492078	0	Standard
> Ge	72		ug/L			20993	22152	2	KED
Ni	60	21.680	ug/L	0.609	2	13	21461	1	KED
Ni	62	21.291	ug/L	0.602	2	8	3462	2	KED
Cu	63	24.189	ug/L	0.437	1	34	71367	0	KED
Cu	65	24.245	ug/L	0.176	0	19	35335	1	KED
Zn	66	49.693	ug/L	1.295	2	36	19470	0	KED
Zn	67	56.025	ug/L	2.006	3	4	3745	1	KED
As	75	2.313	ug/L	0.089	3	5	462	1	KED
Y	89		ug/L			210865	583850	0	Standard
Kr	83		ug/L			43	213	12	Standard
> In-1	115		ug/L			5860	5981	1	KED
Cd	111	0.069	ug/L	0.010	14	2	17	11	KED
Cd	114	0.056	ug/L	0.020	36	6	35	28	KED
> Tb	159		ug/L			480478	530328	2	Standard
Pb	208	4.009	ug/L	0.093	2	115	176724	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-39
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:06:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	52735	1	Standard
	Cl	37		ug/L			3324914	3391437	0	Standard
>	Sc	45		ug/L			423672	626958	1	Standard
	Cr	52	14.503	ug/L	0.069	0	16311	386284	1	Standard
	Cr	53	14.505	ug/L	0.222	1	93	42393	1	Standard
	Mn	55	240.178	ug/L	4.785	1	527	8686024	1	Standard
>	Ge	72		ug/L			20993	21421	1	KED
	Ni	60	18.640	ug/L	0.499	2	13	17847	1	KED
	Ni	62	19.561	ug/L	0.726	3	8	3076	2	KED
	Cu	63	22.002	ug/L	0.417	1	34	62784	0	KED
	Cu	65	22.445	ug/L	0.957	4	19	31621	2	KED
	Zn	66	46.606	ug/L	1.024	2	36	17664	1	KED
	Zn	67	53.270	ug/L	0.470	0	4	3446	1	KED
	As	75	2.073	ug/L	0.084	4	5	401	2	KED
	Y	89		ug/L			210865	578527	1	Standard
	Kr	83		ug/L			43	182	8	Standard
>	In-1	115		ug/L			5860	5952	2	KED
	Cd	111	0.065	ug/L	0.021	32	2	16	25	KED
	Cd	114	0.054	ug/L	0.013	23	6	34	20	KED
>	Tb	159		ug/L			480478	530871	3	Standard
	Pb	208	3.832	ug/L	0.120	3	115	169043	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:11:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	50097	1	Standard
	Cl	37		ug/L			3324914	3416962	0	Standard
>	Sc	45		ug/L			423672	579814	3	Standard
	Cr	52	13.140	ug/L	0.413	3	16311	325653	2	Standard
	Cr	53	13.489	ug/L	0.346	2	93	36455	1	Standard
	Mn	55	210.954	ug/L	3.243	1	527	7054531	1	Standard
>	Ge	72		ug/L			20993	21340	1	KED
	Ni	60	14.865	ug/L	0.177	1	13	14185	1	KED
	Ni	62	15.054	ug/L	0.633	4	8	2360	3	KED
	Cu	63	17.656	ug/L	0.427	2	34	50196	1	KED
	Cu	65	17.539	ug/L	0.382	2	19	24626	0	KED
	Zn	66	37.973	ug/L	1.030	2	36	14343	1	KED
	Zn	67	43.334	ug/L	1.166	2	4	2794	4	KED
	As	75	2.114	ug/L	0.086	4	5	407	3	KED
	Y	89		ug/L			210865	504175	1	Standard
	Kr	83		ug/L			43	146	9	Standard
>	In-1	115		ug/L			5860	5735	2	KED
	Cd	111	0.062	ug/L	0.016	25	2	14	19	KED
	Cd	114	0.071	ug/L	0.019	27	6	41	21	KED
>	Tb	159		ug/L			480478	507146	3	Standard
	Pb	208	3.376	ug/L	0.111	3	115	142276	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:15:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	59899	1	Standard
Cl	37		ug/L			3324914	3412739	1	Standard
> Sc	45		ug/L			423672	621114	0	Standard
Cr	52	14.759	ug/L	0.388	2	16311	389062	2	Standard
Cr	53	15.083	ug/L	0.258	1	93	43672	2	Standard
Mn	55	219.746	ug/L	5.425	2	527	7875162	2	Standard
> Ge	72		ug/L			20993	20560	0	KED
Ni	60	19.248	ug/L	0.084	0	13	17694	0	KED
Ni	62	19.239	ug/L	0.382	1	8	2905	2	KED
Cu	63	21.316	ug/L	0.161	0	34	58394	0	KED
Cu	65	21.715	ug/L	0.462	2	19	29378	1	KED
Zn	66	46.140	ug/L	1.378	2	36	16790	3	KED
Zn	67	52.541	ug/L	1.287	2	4	3262	2	KED
As	75	2.213	ug/L	0.064	2	5	411	2	KED
Y	89		ug/L			210865	563606	1	Standard
Kr	83		ug/L			43	180	8	Standard
> In-1	115		ug/L			5860	5618	1	KED
Cd	111	0.069	ug/L	0.005	7	2	16	5	KED
Cd	114	0.047	ug/L	0.010	20	6	29	16	KED
> Tb	159		ug/L			480478	517401	1	Standard
Pb	208	3.772	ug/L	0.088	2	115	162252	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:20:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	56661	0	Standard
Cl	37		ug/L			3324914	3307978	1	Standard
> Sc	45		ug/L			423672	586636	1	Standard
Cr	52	15.760	ug/L	0.120	0	16311	390865	2	Standard
Cr	53	15.567	ug/L	0.186	1	93	42563	1	Standard
Mn	55	228.346	ug/L	2.803	1	527	7727400	0	Standard
> Ge	72		ug/L			20993	20967	0	KED
Ni	60	16.033	ug/L	0.324	2	13	15030	1	KED
Ni	62	15.699	ug/L	0.381	2	8	2419	1	KED
Cu	63	158.739	ug/L	3.297	2	34	443279	2	KED
Cu	65	157.610	ug/L	3.790	2	19	217311	1	KED
Zn	66	119.814	ug/L	0.740	0	36	44402	0	KED
Zn	67	117.694	ug/L	0.712	0	4	7447	0	KED
As	75	3.950	ug/L	0.136	3	5	743	2	KED
Y	89		ug/L			210865	490065	1	Standard
Kr	83		ug/L			43	151	13	Standard
> In-1	115		ug/L			5860	5856	0	KED
Cd	111	0.150	ug/L	0.016	10	2	33	9	KED
Cd	114	0.120	ug/L	0.044	36	6	68	33	KED
> Tb	159		ug/L			480478	499582	4	Standard
Pb	208	17.333	ug/L	0.748	4	115	718816	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:27:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	32965	3	Standard
	Cl	**37**		ug/L			3324914	3611272	1	Standard
⎡>	**Sc**	**45**		ug/L			423672	441521	1	Standard
⎢	**Cr**	**52**	**51.036**	ug/L	0.636	1	16311	914511	1	Standard
⎢	**Cr**	**53**	**51.230**	ug/L	0.666	1	93	105210	2	Standard
⎣	**Mn**	**55**	**51.491**	ug/L	0.290	0	527	1312008	1	Standard
⎡>	**Ge**	**72**		ug/L			20993	21313	1	KED
⎢	**Ni**	**60**	**50.124**	ug/L	0.848	1	13	47731	1	KED
⎢	**Ni**	**62**	**50.043**	ug/L	1.188	2	8	7818	0	KED
⎢	**Cu**	**63**	**49.092**	ug/L	0.841	1	34	139333	0	KED
⎢	**Cu**	**65**	**50.442**	ug/L	1.435	2	19	70693	1	KED
⎢	**Zn**	**66**	**51.093**	ug/L	0.763	1	36	19267	2	KED
⎢	**Zn**	**67**	**50.557**	ug/L	0.661	1	4	3254	1	KED
⎣	**As**	**75**	**49.405**	ug/L	1.132	2	5	9386	1	KED
	Y	**89**		ug/L			210865	215921	2	Standard
	Kr	**83**		ug/L			43	60	5	Standard
⎡>	**In-1**	**115**		ug/L			5860	6118	2	KED
⎢	**Cd**	**111**	**50.653**	ug/L	1.044	2	2	11225	0	KED
⎣	**Cd**	**114**	**50.722**	ug/L	0.820	1	6	27308	1	KED
⎡>	**Tb**	**159**		ug/L			480478	497473	4	Standard
⎣	**Pb**	**208**	**53.836**	ug/L	1.820	3	115	2223547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:34:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30093	0	Standard
	Cl	**37**		ug/L			3324914	3264181	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	404319	0	Standard
⎢	**Cr**	**52**	**-0.006**	ug/L	0.024	395	16311	15466	1	Standard
⎢	**Cr**	**53**	**-0.000**	ug/L	0.006	1340	93	88	13	Standard
⎣	**Mn**	**55**	**0.004**	ug/L	0.000	10	527	602	1	Standard
⎡>	**Ge**	**72**		ug/L			20993	20183	2	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.002	2748	13	13	14	KED
⎢	**Ni**	**62**	**-0.028**	ug/L	0.013	46	8	3	50	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.004	171	34	26	47	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.002	66	19	13	20	KED
⎢	**Zn**	**66**	**-0.039**	ug/L	0.015	39	36	20	24	KED
⎢	**Zn**	**67**	**-0.018**	ug/L	0.065	365	4	3	124	KED
⎣	**As**	**75**	**0.012**	ug/L	0.002	19	5	7	6	KED
	Y	**89**		ug/L			210865	198781	1	Standard
	Kr	**83**		ug/L			43	51	16	Standard
⎡>	**In-1**	**115**		ug/L			5860	5576	1	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.010	364	2	1	124	KED
⎣	**Cd**	**114**	**-0.008**	ug/L	0.004	47	6	1	101	KED
⎡>	**Tb**	**159**		ug/L			480478	458416	1	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	158	115	112	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:39:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	53197	2	Standard
Cl	37		ug/L			3324914	3384197	1	Standard
> Sc	45		ug/L			423672	619722	2	Standard
Cr	52	14.181	ug/L	0.276	1	16311	373894	2	Standard
Cr	53	14.477	ug/L	0.071	0	93	41824	1	Standard
Mn	55	251.992	ug/L	0.481	0	527	9009600	1	Standard
> Ge	72		ug/L			20993	21749	2	KED
Ni	60	16.085	ug/L	0.374	2	13	15637	0	KED
Ni	62	16.292	ug/L	0.561	3	8	2603	3	KED
Cu	63	82.253	ug/L	1.968	2	34	238173	1	KED
Cu	65	83.079	ug/L	2.891	3	19	118773	0	KED
Zn	66	85.056	ug/L	2.781	3	36	32690	0	KED
Zn	67	85.857	ug/L	0.420	0	4	5637	2	KED
As	75	3.251	ug/L	0.179	5	5	635	2	KED
Y	89		ug/L			210865	524566	2	Standard
Kr	83		ug/L			43	171	16	Standard
> In-1	115		ug/L			5860	5843	2	KED
Cd	111	0.126	ug/L	0.020	15	2	28	16	KED
Cd	114	0.129	ug/L	0.030	23	6	72	19	KED
> Tb	159		ug/L			480478	510610	3	Standard
Pb	208	9.229	ug/L	0.316	3	115	391442	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:43:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	51865	3	Standard
Cl	37		ug/L			3324914	3366801	1	Standard
> Sc	45		ug/L			423672	620310	2	Standard
Cr	52	15.786	ug/L	0.255	1	16311	413795	1	Standard
Cr	53	15.909	ug/L	0.372	2	93	45977	1	Standard
Mn	55	279.736	ug/L	5.804	2	527	10007123	0	Standard
> Ge	72		ug/L			20993	21035	1	KED
Ni	60	17.930	ug/L	0.280	1	13	16862	1	KED
Ni	62	18.359	ug/L	0.316	1	8	2836	0	KED
Cu	63	147.537	ug/L	2.988	2	34	413272	2	KED
Cu	65	151.990	ug/L	3.177	2	19	210210	0	KED
Zn	66	166.818	ug/L	3.578	2	36	61992	0	KED
Zn	67	157.778	ug/L	3.633	2	4	10012	0	KED
As	75	3.962	ug/L	0.091	2	5	748	3	KED
Y	89		ug/L			210865	527866	0	Standard
Kr	83		ug/L			43	186	2	Standard
> In-1	115		ug/L			5860	5743	1	KED
Cd	111	0.183	ug/L	0.020	11	2	40	11	KED
Cd	114	0.137	ug/L	0.032	23	6	75	22	KED
> Tb	159		ug/L			480478	505546	4	Standard
Pb	208	18.854	ug/L	0.585	3	115	791521	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:47:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	66838	2	Standard
	Cl	37		ug/L			3324914	3396536	2	Standard
>	Sc	45		ug/L			423672	614888	1	Standard
	Cr	52	16.477	ug/L	0.220	1	16311	427204	1	Standard
	Cr	53	16.367	ug/L	0.362	2	93	46902	2	Standard
	Mn	55	344.942	ug/L	3.316	0	527	12235528	0	Standard
>	Ge	72		ug/L			20993	21055	2	KED
	Ni	60	17.420	ug/L	0.048	0	13	16399	2	KED
	Ni	62	17.887	ug/L	0.303	1	8	2766	1	KED
	Cu	63	299.634	ug/L	4.088	1	34	840080	1	KED
	Cu	65	303.440	ug/L	4.792	1	19	420097	1	KED
	Zn	66	267.295	ug/L	5.754	2	36	99429	2	KED
	Zn	67	251.381	ug/L	4.551	1	4	15972	3	KED
	As	75	7.441	ug/L	0.100	1	5	1402	3	KED
	Y	89		ug/L			210865	524948	1	Standard
	Kr	83		ug/L			43	177	4	Standard
>	In-1	115		ug/L			5860	5742	1	KED
	Cd	111	0.235	ug/L	0.015	6	2	51	4	KED
	Cd	114	0.264	ug/L	0.049	18	6	139	18	KED
>	Tb	159		ug/L			480478	510693	3	Standard
	Pb	208	31.171	ug/L	1.169	3	115	1321876	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:52:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	60756	3	Standard
Cl	37		ug/L			3324914	3487794	2	Standard
> Sc	45		ug/L			423672	658659	1	Standard
Cr	52	19.231	ug/L	0.104	0	16311	529891	1	Standard
Cr	53	19.629	ug/L	0.337	1	93	60229	2	Standard
Mn	55	312.870	ug/L	3.636	1	527	11889927	2	Standard
> Ge	72		ug/L			20993	20872	1	KED
Ni	60	20.331	ug/L	0.362	1	13	18971	2	KED
Ni	62	20.419	ug/L	0.229	1	8	3129	1	KED
Cu	63	174.617	ug/L	5.353	3	34	485202	1	KED
Cu	65	177.058	ug/L	1.385	0	19	243025	1	KED
Zn	66	172.556	ug/L	6.360	3	36	63623	2	KED
Zn	67	171.433	ug/L	3.933	2	4	10794	0	KED
As	75	3.678	ug/L	0.143	3	5	689	2	KED
Y	89		ug/L			210865	578852	0	Standard
Kr	83		ug/L			43	184	4	Standard
> In-1	115		ug/L			5860	5582	2	KED
Cd	111	0.298	ug/L	0.068	22	2	62	24	KED
Cd	114	0.265	ug/L	0.039	14	6	135	13	KED
> Tb	159		ug/L			480478	532396	1	Standard
Pb	208	43.157	ug/L	1.236	2	115	1909113	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-18
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:56:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	58924	1	Standard
Cl	37		ug/L			3324914	3370048	0	Standard
> Sc	45		ug/L			423672	617373	0	Standard
Cr	52	21.832	ug/L	0.177	0	16311	560643	1	Standard
Cr	53	21.714	ug/L	0.394	1	93	62433	2	Standard
Mn	55	265.880	ug/L	1.343	0	527	9470337	0	Standard
> Ge	72		ug/L			20993	21074	1	KED
Ni	60	21.377	ug/L	0.131	0	13	20140	1	KED
Ni	62	21.451	ug/L	0.056	0	8	3319	1	KED
Cu	63	128.660	ug/L	0.628	0	34	361106	1	KED
Cu	65	130.741	ug/L	1.364	1	19	181193	0	KED
Zn	66	227.423	ug/L	0.447	0	36	84680	1	KED
Zn	67	215.190	ug/L	5.001	2	4	13680	1	KED
As	75	3.876	ug/L	0.103	2	5	733	2	KED
Y	89		ug/L			210865	554098	2	Standard
Kr	83		ug/L			43	175	5	Standard
> In-1	115		ug/L			5860	5813	0	KED
Cd	111	0.338	ug/L	0.039	11	2	73	11	KED
Cd	114	0.341	ug/L	0.006	1	6	180	1	KED
> Tb	159		ug/L			480478	501633	3	Standard
Pb	208	67.113	ug/L	2.232	3	115	2795636	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:01:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	55879	5	Standard
	Cl	37		ug/L			3324914	3391724	1	Standard
>	Sc	45		ug/L			423672	584864	1	Standard
	Cr	52	17.323	ug/L	0.138	0	16311	426093	2	Standard
	Cr	53	17.444	ug/L	0.175	1	93	47536	1	Standard
	Mn	55	256.429	ug/L	4.069	1	527	8650925	0	Standard
>	Ge	72		ug/L			20993	21016	0	KED
	Ni	60	15.312	ug/L	0.363	2	13	14388	1	KED
	Ni	62	15.874	ug/L	0.508	3	8	2452	3	KED
	Cu	63	64.773	ug/L	0.745	1	34	181300	0	KED
	Cu	65	64.950	ug/L	1.139	1	19	89777	1	KED
	Zn	66	164.267	ug/L	1.606	0	36	61003	0	KED
	Zn	67	156.623	ug/L	1.698	1	4	9932	1	KED
	As	75	4.273	ug/L	0.070	1	5	805	1	KED
	Y	89		ug/L			210865	476907	0	Standard
	Kr	83		ug/L			43	163	5	Standard
>	In-1	115		ug/L			5860	5596	2	KED
	Cd	111	0.273	ug/L	0.027	10	2	57	11	KED
	Cd	114	0.279	ug/L	0.035	12	6	143	11	KED
>	Tb	159		ug/L			480478	497986	2	Standard
	Pb	208	22.666	ug/L	0.532	2	115	937763	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:05:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	57831	1	Standard
	Cl	37		ug/L			3324914	3420381	1	Standard
>	Sc	45		ug/L			423672	598825	2	Standard
	Cr	52	25.556	ug/L	0.604	2	16311	632401	1	Standard
	Cr	53	25.854	ug/L	0.428	1	93	72062	2	Standard
	Mn	55	295.355	ug/L	4.829	1	527	10200949	1	Standard
>	Ge	72		ug/L			20993	21303	3	KED
	Ni	60	17.800	ug/L	0.779	4	13	16947	4	KED
	Ni	62	17.679	ug/L	0.306	1	8	2765	2	KED
	Cu	63	69.250	ug/L	2.212	3	34	196362	2	KED
	Cu	65	69.809	ug/L	0.421	0	19	97819	3	KED
	Zn	66	177.891	ug/L	3.546	1	36	66932	2	KED
	Zn	67	188.821	ug/L	0.844	0	4	12138	4	KED
	As	75	4.955	ug/L	0.133	2	5	945	1	KED
	Y	89		ug/L			210865	515122	1	Standard
	Kr	83		ug/L			43	168	14	Standard
>	In-1	115		ug/L			5860	5688	2	KED
	Cd	111	0.332	ug/L	0.019	5	2	70	3	KED
	Cd	114	0.302	ug/L	0.037	12	6	157	11	KED
>	Tb	159		ug/L			480478	507345	2	Standard
	Pb	208	35.143	ug/L	0.833	2	115	1481052	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:09:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	56409	4	Standard
Cl	37		ug/L			3324914	3493037	0	Standard
Sc	45		ug/L			423672	588963	2	Standard
Cr	52	16.558	ug/L	0.195	1	16311	411058	1	Standard
Cr	53	16.775	ug/L	0.056	0	93	46038	1	Standard
Mn	55	268.768	ug/L	7.479	2	527	9129249	0	Standard
Ge	72		ug/L			20993	21042	0	KED
Ni	60	17.956	ug/L	0.120	0	13	16893	0	KED
Ni	62	17.686	ug/L	0.379	2	8	2734	1	KED
Cu	63	38.342	ug/L	0.262	0	34	107475	1	KED
Cu	65	38.931	ug/L	0.301	0	19	53892	1	KED
Zn	66	112.545	ug/L	2.026	1	36	41861	2	KED
Zn	67	140.182	ug/L	1.154	0	4	8901	0	KED
As	75	3.268	ug/L	0.158	4	5	618	4	KED
Y	89		ug/L			210865	498858	1	Standard
Kr	83		ug/L			43	129	14	Standard
In-1	115		ug/L			5860	5514	1	KED
Cd	111	0.256	ug/L	0.041	16	2	53	16	KED
Cd	114	0.276	ug/L	0.032	11	6	139	10	KED
Tb	159		ug/L			480478	508471	5	Standard
Pb	208	26.628	ug/L	1.257	4	115	1123426	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-25
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:14:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	55168	1	Standard
Cl	37		ug/L			3324914	3440549	2	Standard
Sc	45		ug/L			423672	635485	1	Standard
Cr	52	16.070	ug/L	0.229	1	16311	431248	2	Standard
Cr	53	16.360	ug/L	0.150	0	93	48452	1	Standard
Mn	55	334.114	ug/L	9.380	2	527	12247891	2	Standard
Ge	72		ug/L			20993	20516	2	KED
Ni	60	17.893	ug/L	0.574	3	13	16407	1	KED
Ni	62	17.766	ug/L	0.354	1	8	2677	2	KED
Cu	63	43.485	ug/L	0.688	1	34	118813	0	KED
Cu	65	44.186	ug/L	1.622	3	19	59607	2	KED
Zn	66	145.151	ug/L	3.640	2	36	52615	1	KED
Zn	67	137.829	ug/L	4.325	3	4	8530	1	KED
As	75	3.428	ug/L	0.128	3	5	632	4	KED
Y	89		ug/L			210865	577981	0	Standard
Kr	83		ug/L			43	187	14	Standard
In-1	115		ug/L			5860	5625	1	KED
Cd	111	0.293	ug/L	0.023	7	2	61	6	KED
Cd	114	0.273	ug/L	0.018	6	6	141	6	KED
Tb	159		ug/L			480478	518871	1	Standard
Pb	208	30.997	ug/L	0.795	2	115	1336219	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-26
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:18:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	58886	0	Standard
Cl	37		ug/L			3324914	3401391	1	Standard
> Sc	45		ug/L			423672	611363	1	Standard
Cr	52	14.816	ug/L	0.184	1	16311	384341	2	Standard
Cr	53	14.908	ug/L	0.240	1	93	42493	2	Standard
Mn	55	330.629	ug/L	5.954	1	527	11660014	0	Standard
> Ge	72		ug/L			20993	21424	0	KED
Ni	60	17.286	ug/L	0.269	1	13	16560	1	KED
Ni	62	17.264	ug/L	0.386	2	8	2717	2	KED
Cu	63	35.504	ug/L	0.371	1	34	101332	1	KED
Cu	65	35.814	ug/L	0.192	0	19	50476	0	KED
Zn	66	132.881	ug/L	1.609	1	36	50317	1	KED
Zn	67	126.361	ug/L	3.197	2	4	8170	2	KED
As	75	3.639	ug/L	0.152	4	5	700	4	KED
Y	89		ug/L			210865	564808	1	Standard
Kr	83		ug/L			43	184	16	Standard
> In-1	115		ug/L			5860	6013	1	KED
Cd	111	0.239	ug/L	0.025	10	2	54	10	KED
Cd	114	0.229	ug/L	0.033	14	6	127	14	KED
> Tb	159		ug/L			480478	514463	3	Standard
Pb	208	24.244	ug/L	0.723	2	115	1035773	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:26:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31867	2	Standard
	Cl	**37**		ug/L			3324914	3553555	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	411155	2	Standard
⎢	**Cr**	**52**	**50.318**	ug/L	0.946	1	16311	839634	0	Standard
⎢	**Cr**	**53**	**50.103**	ug/L	0.527	1	93	95819	2	Standard
⎣	**Mn**	**55**	**51.220**	ug/L	0.354	0	527	1215524	2	Standard
⎡>	**Ge**	**72**		ug/L			20993	20963	1	KED
⎢	**Ni**	**60**	**51.785**	ug/L	0.802	1	13	48508	1	KED
⎢	**Ni**	**62**	**51.093**	ug/L	0.143	0	8	7854	1	KED
⎢	**Cu**	**63**	**50.499**	ug/L	0.978	1	34	140988	1	KED
⎢	**Cu**	**65**	**50.551**	ug/L	0.872	1	19	69697	0	KED
⎢	**Zn**	**66**	**51.345**	ug/L	1.017	1	36	19046	2	KED
⎢	**Zn**	**67**	**51.179**	ug/L	1.281	2	4	3241	3	KED
⎣	**As**	**75**	**50.172**	ug/L	1.082	2	5	9376	0	KED
	Y	**89**		ug/L			210865	197236	2	Standard
	Kr	**83**		ug/L			43	57	11	Standard
⎡>	**In-1**	**115**		ug/L			5860	5407	1	KED
⎢	**Cd**	**111**	**51.898**	ug/L	0.494	0	2	10169	0	KED
⎣	**Cd**	**114**	**53.497**	ug/L	0.373	0	6	25468	1	KED
⎡>	**Tb**	**159**		ug/L			480478	467036	3	Standard
⎣	**Pb**	**208**	**53.906**	ug/L	1.877	3	115	2090397	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:33:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31022	3	Standard
	Cl	**37**		ug/L			3324914	3277195	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	397897	0	Standard
⎢	**Cr**	**52**	**0.014**	ug/L	0.027	190	16311	15541	1	Standard
⎢	**Cr**	**53**	**0.001**	ug/L	0.008	597	93	90	16	Standard
⎣	**Mn**	**55**	**0.008**	ug/L	0.001	11	527	672	2	Standard
⎡>	**Ge**	**72**		ug/L			20993	20621	1	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.002	509	13	13	14	KED
⎢	**Ni**	**62**	**-0.008**	ug/L	0.029	375	8	6	62	KED
⎢	**Cu**	**63**	**0.006**	ug/L	0.004	60	34	50	20	KED
⎢	**Cu**	**65**	**0.007**	ug/L	0.003	43	19	29	15	KED
⎢	**Zn**	**66**	**0.059**	ug/L	0.039	65	36	57	25	KED
⎢	**Zn**	**67**	**0.032**	ug/L	0.064	198	4	6	62	KED
⎣	**As**	**75**	**-0.007**	ug/L	0.004	61	5	4	19	KED
	Y	**89**		ug/L			210865	197843	2	Standard
	Kr	**83**		ug/L			43	52	20	Standard
⎡>	**In-1**	**115**		ug/L			5860	5695	1	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.003	95	2	1	34	KED
⎣	**Cd**	**114**	**-0.006**	ug/L	0.004	74	6	3	69	KED
⎡>	**Tb**	**159**		ug/L			480478	452103	3	Standard
⎣	**Pb**	**208**	**0.004**	ug/L	0.000	3	115	251	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-30
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:37:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	59152	4	Standard
	Cl	37		ug/L			3324914	3435177	4	Standard
>	Sc	45		ug/L			423672	584804	3	Standard
	Cr	52	17.182	ug/L	0.410	2	16311	422604	2	Standard
	Cr	53	17.075	ug/L	0.172	1	93	46541	4	Standard
	Mn	55	378.718	ug/L	6.523	1	527	12778607	3	Standard
>	Ge	72		ug/L			20993	20917	1	KED
	Ni	60	17.923	ug/L	0.525	2	13	16759	2	KED
	Ni	62	20.533	ug/L	0.531	2	8	3153	2	KED
	Cu	63	1040.504	ug/L	9.440	0	34	2898097	0	KED
	Cu	65	1018.154	ug/L	12.658	1	19	1400619	2	KED
	Zn	66	428.838	ug/L	5.562	1	36	158462	2	KED
	Zn	67	391.434	ug/L	4.387	1	4	24700	1	KED
	As	75	10.788	ug/L	0.234	2	5	2016	1	KED
	Y	89		ug/L			210865	490076	2	Standard
	Kr	83		ug/L			43	137	12	Standard
>	In-1	115		ug/L			5860	5735	2	KED
	Cd	111	0.409	ug/L	0.051	12	2	87	13	KED
	Cd	114	0.403	ug/L	0.045	11	6	209	12	KED
>	Tb	159		ug/L			480478	493534	5	Standard
	Pb	208	47.526	ug/L	2.114	4	115	1946023	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-31
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:41:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	48190	2	Standard
Cl	37		ug/L			3324914	3410039	1	Standard
> Sc	45		ug/L			423672	583149	2	Standard
Cr	52	15.209	ug/L	0.071	0	16311	375698	1	Standard
Cr	53	15.306	ug/L	0.087	0	93	41609	2	Standard
Mn	55	230.551	ug/L	5.553	2	527	7755480	2	Standard
> Ge	72		ug/L			20993	20832	1	KED
Ni	60	18.975	ug/L	0.540	2	13	17669	1	KED
Ni	62	19.450	ug/L	0.749	3	8	2976	4	KED
Cu	63	157.229	ug/L	3.198	2	34	436143	1	KED
Cu	65	161.552	ug/L	1.613	0	19	221341	1	KED
Zn	66	103.568	ug/L	3.204	3	36	38133	2	KED
Zn	67	101.228	ug/L	3.595	3	4	6363	2	KED
As	75	2.563	ug/L	0.065	2	5	481	3	KED
Y	89		ug/L			210865	512499	0	Standard
Kr	83		ug/L			43	184	11	Standard
> In-1	115		ug/L			5860	5524	3	KED
Cd	111	0.132	ug/L	0.012	9	2	28	10	KED
Cd	114	0.120	ug/L	0.021	17	6	64	13	KED
> Tb	159		ug/L			480478	497159	3	Standard
Pb	208	23.966	ug/L	0.629	2	115	989627	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-32
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:46:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	42321	3	Standard
	Cl	**37**		ug/L			3324914	3344335	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	528839	1	Standard
|	**Cr**	**52**	**10.027**	ug/L	0.221	2	16311	231560	2	Standard
|	**Cr**	**53**	**10.334**	ug/L	0.090	0	93	25513	1	Standard
⌊	**Mn**	**55**	**167.397**	ug/L	2.556	1	527	5107822	2	Standard
⌈>	**Ge**	**72**		ug/L			20993	21127	0	KED
|	**Ni**	**60**	**17.028**	ug/L	0.561	3	13	16083	2	KED
|	**Ni**	**62**	**17.093**	ug/L	0.584	3	8	2652	2	KED
|	**Cu**	**63**	**13.831**	ug/L	0.497	3	34	38938	2	KED
|	**Cu**	**65**	**13.620**	ug/L	0.392	2	19	18938	2	KED
|	**Zn**	**66**	**40.743**	ug/L	1.194	2	36	15237	2	KED
|	**Zn**	**67**	**43.857**	ug/L	0.767	1	4	2799	0	KED
⌊	**As**	**75**	**1.862**	ug/L	0.046	2	5	356	3	KED
	Y	**89**		ug/L			210865	443516	1	Standard
	Kr	**83**		ug/L			43	123	17	Standard
⌈>	**In-1**	**115**		ug/L			5860	5736	2	KED
|	**Cd**	**111**	**0.040**	ug/L	0.005	12	2	10	9	KED
⌊	**Cd**	**114**	**0.027**	ug/L	0.008	29	6	19	20	KED
⌈>	**Tb**	**159**		ug/L			480478	499603	3	Standard
⌊	**Pb**	**208**	**3.572**	ug/L	0.155	4	115	148265	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-33
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:50:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	46571	1	Standard
Cl	37		ug/L			3324914	3435162	1	Standard
> Sc	45		ug/L			423672	538074	0	Standard
Cr	52	10.112	ug/L	0.182	1	16311	237442	1	Standard
Cr	53	10.327	ug/L	0.033	0	93	25939	0	Standard
Mn	55	186.104	ug/L	3.535	1	527	5776941	1	Standard
> Ge	72		ug/L			20993	20762	2	KED
Ni	60	17.434	ug/L	0.532	3	13	16174	0	KED
Ni	62	16.741	ug/L	1.597	9	8	2549	6	KED
Cu	63	14.629	ug/L	0.298	2	34	40468	1	KED
Cu	65	14.902	ug/L	0.346	2	19	20356	0	KED
Zn	66	42.271	ug/L	2.748	6	36	15515	3	KED
Zn	67	46.612	ug/L	1.609	3	4	2922	2	KED
As	75	1.735	ug/L	0.090	5	5	326	3	KED
Y	89		ug/L			210865	494575	1	Standard
Kr	83		ug/L			43	135	14	Standard
> In-1	115		ug/L			5860	5511	4	KED
Cd	111	0.042	ug/L	0.016	36	2	10	24	KED
Cd	114	0.035	ug/L	0.014	40	6	23	34	KED
> Tb	159		ug/L			480478	497846	2	Standard
Pb	208	2.333	ug/L	0.078	3	115	96587	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:55:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	47978	1	Standard
Cl	37		ug/L			3324914	3428684	0	Standard
> Sc	45		ug/L			423672	547385	1	Standard
Cr	52	11.305	ug/L	0.195	1	16311	267509	0	Standard
Cr	53	11.410	ug/L	0.102	0	93	29141	0	Standard
Mn	55	204.057	ug/L	5.069	2	527	6442844	1	Standard
> Ge	72		ug/L			20993	20835	0	KED
Ni	60	16.911	ug/L	0.304	1	13	15754	1	KED
Ni	62	17.067	ug/L	0.392	2	8	2612	2	KED
Cu	63	18.217	ug/L	0.318	1	34	50577	1	KED
Cu	65	18.414	ug/L	0.250	1	19	25249	1	KED
Zn	66	82.995	ug/L	0.667	0	36	30574	0	KED
Zn	67	81.424	ug/L	3.657	4	4	5121	4	KED
As	75	3.418	ug/L	0.173	5	5	640	4	KED
Y	89		ug/L			210865	488291	1	Standard
Kr	83		ug/L			43	158	7	Standard
> In-1	115		ug/L			5860	5655	2	KED
Cd	111	0.114	ug/L	0.023	19	2	25	17	KED
Cd	114	0.124	ug/L	0.011	9	6	67	9	KED
> Tb	159		ug/L			480478	503350	3	Standard
Pb	208	9.375	ug/L	0.348	3	115	391984	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:59:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	52623	1	Standard
Cl	37		ug/L			3324914	3421904	1	Standard
> Sc	45		ug/L			423672	558781	2	Standard
Cr	52	12.347	ug/L	0.072	0	16311	296308	1	Standard
Cr	53	12.436	ug/L	0.215	1	93	32408	1	Standard
Mn	55	191.830	ug/L	0.459	0	527	6184482	2	Standard
> Ge	72		ug/L			20993	20928	1	KED
Ni	60	19.637	ug/L	0.053	0	13	18374	2	KED
Ni	62	18.816	ug/L	0.175	0	8	2892	2	KED
Cu	63	17.874	ug/L	0.477	2	34	49839	2	KED
Cu	65	18.632	ug/L	0.936	5	19	25647	3	KED
Zn	66	65.456	ug/L	0.326	0	36	24229	1	KED
Zn	67	68.077	ug/L	3.169	4	4	4300	4	KED
As	75	2.141	ug/L	0.093	4	5	404	3	KED
Y	89		ug/L			210865	499188	1	Standard
Kr	83		ug/L			43	168	6	Standard
> In-1	115		ug/L			5860	5564	0	KED
Cd	111	0.095	ug/L	0.011	11	2	21	11	KED
Cd	114	0.077	ug/L	0.015	19	6	43	17	KED
> Tb	159		ug/L			480478	493587	3	Standard
Pb	208	13.795	ug/L	0.345	2	115	565609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:03:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	46348	1	Standard
Cl	37		ug/L			3324914	3429129	2	Standard
> Sc	45		ug/L			423672	552050	1	Standard
Cr	52	10.564	ug/L	0.091	0	16311	253507	1	Standard
Cr	53	10.535	ug/L	0.259	2	93	27140	0	Standard
Mn	55	171.028	ug/L	1.826	1	527	5446801	0	Standard
> Ge	72		ug/L			20993	21205	2	KED
Ni	60	18.315	ug/L	0.616	3	13	17357	2	KED
Ni	62	17.864	ug/L	0.425	2	8	2783	3	KED
Cu	63	15.363	ug/L	0.470	3	34	43403	2	KED
Cu	65	15.543	ug/L	0.283	1	19	21694	3	KED
Zn	66	47.926	ug/L	1.605	3	36	17984	3	KED
Zn	67	50.322	ug/L	2.412	4	4	3221	3	KED
As	75	2.000	ug/L	0.068	3	5	383	5	KED
Y	89		ug/L			210865	613016	0	Standard
Kr	83		ug/L			43	153	8	Standard
> In-1	115		ug/L			5860	5884	1	KED
Cd	111	0.040	ug/L	0.004	8	2	10	5	KED
Cd	114	0.044	ug/L	0.010	21	6	29	15	KED
> Tb	159		ug/L			480478	508235	3	Standard
Pb	208	5.068	ug/L	0.178	3	115	213993	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:08:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	49808	1	Standard
	Cl	37		ug/L			3324914	3433582	0	Standard
>	Sc	45		ug/L			423672	580459	0	Standard
	Cr	52	15.332	ug/L	0.186	1	16311	376823	1	Standard
	Cr	53	15.527	ug/L	0.094	0	93	42009	1	Standard
	Mn	55	259.850	ug/L	4.345	1	527	8701827	1	Standard
>	Ge	72		ug/L			20993	20813	1	KED
	Ni	60	21.054	ug/L	0.414	1	13	19587	0	KED
	Ni	62	20.511	ug/L	1.219	5	8	3133	4	KED
	Cu	63	23.716	ug/L	0.404	1	34	65772	2	KED
	Cu	65	23.758	ug/L	0.203	0	19	32534	1	KED
	Zn	66	82.527	ug/L	1.292	1	36	30366	0	KED
	Zn	67	86.803	ug/L	1.844	2	4	5453	1	KED
	As	75	2.533	ug/L	0.052	2	5	475	1	KED
	Y	89		ug/L			210865	470527	2	Standard
	Kr	83		ug/L			43	176	6	Standard
>	In-1	115		ug/L			5860	5527	2	KED
	Cd	111	0.145	ug/L	0.019	12	2	31	10	KED
	Cd	114	0.143	ug/L	0.030	21	6	75	19	KED
>	Tb	159		ug/L			480478	492355	2	Standard
	Pb	208	19.863	ug/L	0.670	3	115	812292	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:12:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	55628	1	Standard
Cl	37		ug/L			3324914	3495838	2	Standard
> Sc	45		ug/L			423672	619912	1	Standard
Cr	52	17.326	ug/L	0.276	1	16311	451626	0	Standard
Cr	53	17.477	ug/L	0.170	0	93	50486	2	Standard
Mn	55	296.129	ug/L	1.479	0	527	10590734	1	Standard
> Ge	72		ug/L			20993	20654	1	KED
Ni	60	21.316	ug/L	0.309	1	13	19680	0	KED
Ni	62	20.963	ug/L	1.167	5	8	3178	4	KED
Cu	63	35.930	ug/L	1.052	2	34	98840	2	KED
Cu	65	36.339	ug/L	0.848	2	19	49367	1	KED
Zn	66	128.330	ug/L	1.419	1	36	46845	1	KED
Zn	67	123.723	ug/L	5.019	4	4	7710	3	KED
As	75	3.622	ug/L	0.116	3	5	672	2	KED
Y	89		ug/L			210865	534098	2	Standard
Kr	83		ug/L			43	182	16	Standard
> In-1	115		ug/L			5860	5439	0	KED
Cd	111	0.341	ug/L	0.010	2	2	69	2	KED
Cd	114	0.343	ug/L	0.038	10	6	170	10	KED
> Tb	159		ug/L			480478	501504	4	Standard
Pb	208	42.916	ug/L	1.362	3	115	1786980	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:17:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	53324	2	Standard
Cl	37		ug/L			3324914	3531376	1	Standard
> Sc	45		ug/L			423672	549194	1	Standard
Cr	52	9.678	ug/L	0.051	0	16311	232837	1	Standard
Cr	53	9.817	ug/L	0.167	1	93	25171	1	Standard
Mn	55	167.741	ug/L	0.708	0	527	5314942	1	Standard
> Ge	72		ug/L			20993	21306	0	KED
Ni	60	17.268	ug/L	0.496	2	13	16450	2	KED
Ni	62	16.962	ug/L	0.027	0	8	2655	0	KED
Cu	63	14.075	ug/L	0.122	0	34	39965	0	KED
Cu	65	14.496	ug/L	0.308	2	19	20330	2	KED
Zn	66	45.175	ug/L	0.389	0	36	17034	0	KED
Zn	67	46.107	ug/L	1.742	3	4	2967	3	KED
As	75	1.786	ug/L	0.028	1	5	344	1	KED
Y	89		ug/L			210865	541666	1	Standard
Kr	83		ug/L			43	123	12	Standard
> In-1	115		ug/L			5860	5660	0	KED
Cd	111	0.030	ug/L	0.005	17	2	8	13	KED
Cd	114	0.039	ug/L	0.005	12	6	25	9	KED
> Tb	159		ug/L			480478	508493	3	Standard
Pb	208	5.829	ug/L	0.221	3	115	246247	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:24:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31687	3	Standard
	Cl	**37**		ug/L			3324914	3528087	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	404925	2	Standard
|	**Cr**	**52**	**51.520**	ug/L	1.179	2	16311	846326	2	Standard
|	**Cr**	**53**	**51.090**	ug/L	1.275	2	93	96187	1	Standard
⌊	**Mn**	**55**	**51.365**	ug/L	0.640	1	527	1200132	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	19951	1	KED
|	**Ni**	**60**	**51.930**	ug/L	1.507	2	13	46286	1	KED
|	**Ni**	**62**	**51.456**	ug/L	0.981	1	8	7527	1	KED
|	**Cu**	**63**	**51.766**	ug/L	0.343	0	34	137551	0	KED
|	**Cu**	**65**	**52.294**	ug/L	1.483	2	19	68610	1	KED
|	**Zn**	**66**	**50.951**	ug/L	1.349	2	36	17982	1	KED
|	**Zn**	**67**	**53.035**	ug/L	1.493	2	4	3195	2	KED
⌊	**As**	**75**	**51.477**	ug/L	0.884	1	5	9157	1	KED
	Y	**89**		ug/L			210865	201459	0	Standard
	Kr	**83**		ug/L			43	40	17	Standard
⌈>	**In-1**	**115**		ug/L			5860	5557	1	KED
|	**Cd**	**111**	**51.054**	ug/L	0.731	1	2	10280	0	KED
⌊	**Cd**	**114**	**51.070**	ug/L	0.654	1	6	24983	0	KED
⌈>	**Tb**	**159**		ug/L			480478	460335	3	Standard
⌊	**Pb**	**208**	**54.571**	ug/L	1.494	2	115	2086351	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:31:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30209	2	Standard
	Cl	**37**		ug/L			3324914	3262902	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	394751	1	Standard
|	**Cr**	**52**	**-0.013**	ug/L	0.019	145	16311	14995	3	Standard
|	**Cr**	**53**	**-0.004**	ug/L	0.005	124	93	79	10	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.001	10	527	679	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	19446	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.001	54	13	10	10	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.014	52	8	3	50	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	29	34	43	9	KED
|	**Cu**	**65**	**0.007**	ug/L	0.007	97	19	27	32	KED
|	**Zn**	**66**	**0.060**	ug/L	0.028	46	36	53	16	KED
|	**Zn**	**67**	**0.070**	ug/L	0.035	49	4	8	26	KED
⌊	**As**	**75**	**0.005**	ug/L	0.015	270	5	6	38	KED
	Y	**89**		ug/L			210865	195241	1	Standard
	Kr	**83**		ug/L			43	55	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5455	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.010	112	2	3	50	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.006	194	6	4	68	KED
⌈>	**Tb**	**159**		ug/L			480478	441897	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	7	115	248	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0428-01RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:36:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	42631	2	Standard
	Cl	**37**		ug/L			3324914	3444399	3	Standard
⌈>	**Sc**	**45**		ug/L			423672	426178	3	Standard
|	**Cr**	**52**	**0.392**	ug/L	0.015	3	16311	23064	2	Standard
|	**Cr**	**53**	**0.443**	ug/L	0.005	1	93	971	2	Standard
⌊	**Mn**	**55**	**3.009**	ug/L	0.051	1	527	74487	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20143	1	KED
|	**Ni**	**60**	**1.065**	ug/L	0.036	3	13	972	5	KED
|	**Ni**	**62**	**1.083**	ug/L	0.077	7	8	167	5	KED
|	**Cu**	**63**	**0.981**	ug/L	0.020	2	34	2663	1	KED
|	**Cu**	**65**	**1.006**	ug/L	0.056	5	19	1350	4	KED
|	**Zn**	**66**	**1.912**	ug/L	0.101	5	36	714	3	KED
|	**Zn**	**67**	**4.395**	ug/L	0.285	6	4	271	4	KED
⌊	**As**	**75**	**0.518**	ug/L	0.012	2	5	98	3	KED
	Y	**89**		ug/L			210865	199294	5	Standard
	Kr	**83**		ug/L			43	42	9	Standard
⌈>	**In-1**	**115**		ug/L			5860	5564	1	KED
|	**Cd**	**111**	**0.016**	ug/L	0.013	82	2	5	50	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	118	6	7	28	KED
⌈>	**Tb**	**159**		ug/L			480478	456420	3	Standard
⌊	**Pb**	**208**	**0.085**	ug/L	0.004	4	115	3335	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-04
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:40:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43313	0	Standard
	Cl	**37**		ug/L			3324914	3511711	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	408571	1	Standard
|	**Cr**	**52**	**0.315**	ug/L	0.031	9	16311	20852	1	Standard
|	**Cr**	**53**	**0.265**	ug/L	0.007	2	93	593	3	Standard
⌊	**Mn**	**55**	**0.906**	ug/L	0.017	1	527	21852	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	21157	2	KED
|	**Ni**	**60**	**0.142**	ug/L	0.007	4	13	147	6	KED
|	**Ni**	**62**	**0.052**	ug/L	0.065	125	8	16	63	KED
|	**Cu**	**63**	**0.346**	ug/L	0.001	0	34	1010	2	KED
|	**Cu**	**65**	**0.344**	ug/L	0.036	10	19	497	7	KED
|	**Zn**	**66**	**11.768**	ug/L	0.181	1	36	4432	0	KED
|	**Zn**	**67**	**10.259**	ug/L	0.103	1	4	659	1	KED
⌊	**As**	**75**	**0.204**	ug/L	0.020	9	5	44	9	KED
	Y	**89**		ug/L			210865	197090	0	Standard
	Kr	**83**		ug/L			43	48	35	Standard
⌈>	**In-1**	**115**		ug/L			5860	5935	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.003	34	2	0	86	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	53	6	3	30	KED
⌈>	**Tb**	**159**		ug/L			480478	453850	3	Standard
⌊	**Pb**	**208**	**0.013**	ug/L	0.002	12	115	611	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-06
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:44:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44977	2	Standard
	Cl	**37**		ug/L			3324914	3501369	4	Standard
⌈>	**Sc**	**45**		ug/L			423672	421978	2	Standard
|	**Cr**	**52**	**0.360**	ug/L	0.023	6	16311	22285	0	Standard
|	**Cr**	**53**	**0.297**	ug/L	0.019	6	93	676	7	Standard
⌊	**Mn**	**55**	**3.485**	ug/L	0.101	2	527	85322	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	19998	3	KED
|	**Ni**	**60**	**7.257**	ug/L	0.093	1	13	6495	2	KED
|	**Ni**	**62**	**6.752**	ug/L	0.358	5	8	997	7	KED
|	**Cu**	**63**	**0.232**	ug/L	0.011	4	34	650	8	KED
|	**Cu**	**65**	**0.240**	ug/L	0.008	3	19	333	5	KED
|	**Zn**	**66**	**63.310**	ug/L	0.842	1	36	22397	4	KED
|	**Zn**	**67**	**53.537**	ug/L	1.707	3	4	3232	3	KED
⌊	**As**	**75**	**0.161**	ug/L	0.021	13	5	34	14	KED
	Y	**89**		ug/L			210865	205077	2	Standard
	Kr	**83**		ug/L			43	56	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5431	0	KED
|	**Cd**	**111**	**0.007**	ug/L	0.014	191	2	3	78	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	190	6	4	48	KED
⌈>	**Tb**	**159**		ug/L			480478	473744	2	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.000	3	115	591	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-08
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:49:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43123	1	Standard
	Cl	**37**		ug/L			3324914	3441339	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	412563	2	Standard
|	**Cr**	**52**	**0.510**	ug/L	0.034	6	16311	24261	0	Standard
|	**Cr**	**53**	**0.468**	ug/L	0.027	5	93	989	6	Standard
⌊	**Mn**	**55**	**0.793**	ug/L	0.020	2	527	19380	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	20785	3	KED
|	**Ni**	**60**	**0.191**	ug/L	0.011	5	13	191	8	KED
|	**Ni**	**62**	**0.250**	ug/L	0.015	5	8	46	8	KED
|	**Cu**	**63**	**0.724**	ug/L	0.027	3	34	2035	1	KED
|	**Cu**	**65**	**0.738**	ug/L	0.035	4	19	1027	3	KED
|	**Zn**	**66**	**7.272**	ug/L	0.105	1	36	2704	2	KED
|	**Zn**	**67**	**6.462**	ug/L	0.402	6	4	408	2	KED
⌊	**As**	**75**	**0.273**	ug/L	0.007	2	5	56	2	KED
	Y	**89**		ug/L			210865	201406	1	Standard
	Kr	**83**		ug/L			43	43	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5575	5	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	524	2	1	50	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.006	215	6	4	64	KED
⌈>	**Tb**	**159**		ug/L			480478	456293	3	Standard
⌊	**Pb**	**208**	**0.021**	ug/L	0.002	9	115	910	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-10
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:53:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	45626	4	Standard
	Cl	**37**		ug/L			3324914	3490064	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	425522	1	Standard
|	**Cr**	**52**	**0.326**	ug/L	0.044	13	16311	21897	2	Standard
|	**Cr**	**53**	**0.265**	ug/L	0.006	2	93	617	2	Standard
⌊	**Mn**	**55**	**3.196**	ug/L	0.022	0	527	78986	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20100	1	KED
|	**Ni**	**60**	**0.064**	ug/L	0.010	15	13	71	10	KED
|	**Ni**	**62**	**0.028**	ug/L	0.021	72	8	12	24	KED
|	**Cu**	**63**	**0.310**	ug/L	0.027	8	34	860	6	KED
|	**Cu**	**65**	**0.298**	ug/L	0.002	0	19	412	1	KED
|	**Zn**	**66**	**45.064**	ug/L	0.540	1	36	16029	0	KED
|	**Zn**	**67**	**40.680**	ug/L	1.053	2	4	2470	1	KED
⌊	**As**	**75**	**0.179**	ug/L	0.009	5	5	37	4	KED
	Y	**89**		ug/L			210865	213329	1	Standard
	Kr	**83**		ug/L			43	53	18	Standard
⌈>	**In-1**	**115**		ug/L			5860	5514	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	115	2	1	34	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.004	38	6	1	177	KED
⌈>	**Tb**	**159**		ug/L			480478	470093	3	Standard
⌊	**Pb**	**208**	**0.019**	ug/L	0.002	9	115	857	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-12
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:57:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44946	0	Standard
	Cl	**37**		ug/L			3324914	3455689	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	437008	2	Standard
|	**Cr**	**52**	**0.337**	ug/L	0.023	6	16311	22679	2	Standard
|	**Cr**	**53**	**0.326**	ug/L	0.015	4	93	757	5	Standard
⌊	**Mn**	**55**	**0.690**	ug/L	0.017	2	527	17930	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20974	2	KED
|	**Ni**	**60**	**0.102**	ug/L	0.008	7	13	109	7	KED
|	**Ni**	**62**	**0.099**	ug/L	0.035	35	8	23	24	KED
|	**Cu**	**63**	**0.424**	ug/L	0.021	4	34	1218	4	KED
|	**Cu**	**65**	**0.418**	ug/L	0.024	5	19	596	3	KED
|	**Zn**	**66**	**7.903**	ug/L	0.399	5	36	2962	4	KED
|	**Zn**	**67**	**7.218**	ug/L	0.111	1	4	460	1	KED
⌊	**As**	**75**	**0.174**	ug/L	0.027	15	5	38	10	KED
	Y	**89**		ug/L			210865	211915	0	Standard
	Kr	**83**		ug/L			43	51	16	Standard
⌈>	**In-1**	**115**		ug/L			5860	6000	1	KED
|	**Cd**	**111**	**0.007**	ug/L	0.005	65	2	3	25	KED
⌊	**Cd**	**114**	**-0.011**	ug/L	0.002	22	6	0	171	KED
⌈>	**Tb**	**159**		ug/L			480478	479164	4	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.000	0	115	806	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:02:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	45110	1	Standard
	Cl	**37**		ug/L			3324914	3443551	0	Standard
⌈>	**Sc**	**45**		ug/L			423672	417979	1	Standard
|	**Cr**	**52**	**0.375**	ug/L	0.038	10	16311	22342	2	Standard
|	**Cr**	**53**	**0.281**	ug/L	0.011	3	93	637	2	Standard
⌊	**Mn**	**55**	**2.606**	ug/L	0.064	2	527	63354	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	21028	1	KED
|	**Ni**	**60**	**0.074**	ug/L	0.008	10	13	83	8	KED
|	**Ni**	**62**	**0.095**	ug/L	0.010	11	8	22	8	KED
|	**Cu**	**63**	**0.256**	ug/L	0.021	8	34	751	9	KED
|	**Cu**	**65**	**0.234**	ug/L	0.004	1	19	342	2	KED
|	**Zn**	**66**	**33.084**	ug/L	1.015	3	36	12325	4	KED
|	**Zn**	**67**	**29.232**	ug/L	0.562	1	4	1858	2	KED
⌊	**As**	**75**	**0.182**	ug/L	0.034	18	5	39	16	KED
	Y	**89**		ug/L			210865	202459	2	Standard
	Kr	**83**		ug/L			43	46	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5801	3	KED
|	**Cd**	**111**	**0.008**	ug/L	0.008	102	2	3	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.006	1274	6	6	52	KED
⌈>	**Tb**	**159**		ug/L			480478	466298	3	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	6	115	671	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:06:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43166	5	Standard
	Cl	**37**		ug/L			3324914	3402239	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	405812	2	Standard
|	**Cr**	**52**	**0.275**	ug/L	0.035	12	16311	20079	4	Standard
|	**Cr**	**53**	**0.251**	ug/L	0.008	3	93	562	4	Standard
⌊	**Mn**	**55**	**2.686**	ug/L	0.020	0	527	63381	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20144	1	KED
|	**Ni**	**60**	**0.073**	ug/L	0.011	14	13	79	12	KED
|	**Ni**	**62**	**0.032**	ug/L	0.038	119	8	12	45	KED
|	**Cu**	**63**	**0.215**	ug/L	0.010	4	34	610	3	KED
|	**Cu**	**65**	**0.233**	ug/L	0.024	10	19	326	8	KED
|	**Zn**	**66**	**32.752**	ug/L	0.270	0	36	11686	0	KED
|	**Zn**	**67**	**29.639**	ug/L	0.252	0	4	1805	1	KED
⌊	**As**	**75**	**0.181**	ug/L	0.013	7	5	37	5	KED
	Y	**89**		ug/L			210865	195397	1	Standard
	Kr	**83**		ug/L			43	39	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5407	5	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	293	2	1	69	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	47	6	3	30	KED
⌈>	**Tb**	**159**		ug/L			480478	454083	3	Standard
⌊	**Pb**	**208**	**0.018**	ug/L	0.001	3	115	792	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:10:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44935	0	Standard
	Cl	**37**		ug/L			3324914	3413687	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	422486	2	Standard
|	**Cr**	**52**	**26.224**	ug/L	0.446	1	16311	457512	2	Standard
|	**Cr**	**53**	**26.167**	ug/L	0.154	0	93	51463	2	Standard
⌊	**Mn**	**55**	**29.351**	ug/L	0.192	0	527	715952	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	20835	2	KED
|	**Ni**	**60**	**27.225**	ug/L	0.470	1	13	25357	3	KED
|	**Ni**	**62**	**26.437**	ug/L	0.757	2	8	4041	2	KED
|	**Cu**	**63**	**26.793**	ug/L	0.609	2	34	74371	2	KED
|	**Cu**	**65**	**27.151**	ug/L	0.331	1	19	37219	2	KED
|	**Zn**	**66**	**116.996**	ug/L	1.777	1	36	43077	0	KED
|	**Zn**	**67**	**101.333**	ug/L	1.295	1	4	6371	0	KED
⌊	**As**	**75**	**25.380**	ug/L	0.158	0	5	4717	1	KED
	Y	**89**		ug/L			210865	204387	5	Standard
	Kr	**83**		ug/L			43	43	4	Standard
⌈>	**In-1**	**115**		ug/L			5860	5640	2	KED
|	**Cd**	**111**	**25.629**	ug/L	0.682	2	2	5237	1	KED
⌊	**Cd**	**114**	**26.041**	ug/L	0.854	3	6	12925	1	KED
⌈>	**Tb**	**159**		ug/L			480478	464989	4	Standard
⌊	**Pb**	**208**	**28.426**	ug/L	0.628	2	115	1097790	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:16:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	47332	0	Standard
	Cl	37		ug/L			3324914	3394381	1	Standard
>	Sc	45		ug/L			423672	552435	1	Standard
	Cr	52	13.580	ug/L	0.004	0	16311	320085	1	Standard
	Cr	53	13.637	ug/L	0.082	0	93	35130	1	Standard
	Mn	55	236.366	ug/L	3.294	1	527	7533823	2	Standard
>	Ge	72		ug/L			20993	20359	0	KED
	Ni	60	16.711	ug/L	0.524	3	13	15211	2	KED
	Ni	62	16.754	ug/L	0.410	2	8	2506	3	KED
	Cu	63	20.630	ug/L	0.269	1	34	55958	0	KED
	Cu	65	21.249	ug/L	0.423	1	19	28469	2	KED
	Zn	66	81.556	ug/L	0.785	0	36	29359	1	KED
	Zn	67	79.298	ug/L	2.556	3	4	4873	2	KED
	As	75	2.533	ug/L	0.089	3	5	465	2	KED
	Y	89		ug/L			210865	434604	1	Standard
	Kr	83		ug/L			43	134	13	Standard
>	In-1	115		ug/L			5860	5604	1	KED
	Cd	111	0.072	ug/L	0.017	23	2	16	21	KED
	Cd	114	0.094	ug/L	0.017	17	6	52	16	KED
>	Tb	159		ug/L			480478	483462	3	Standard
	Pb	208	13.761	ug/L	0.427	3	115	552558	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:23:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31957	3	Standard
	Cl	**37**		ug/L			3324914	3585631	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	409489	0	Standard
|	**Cr**	**52**	**50.693**	ug/L	0.190	0	16311	842585	0	Standard
|	**Cr**	**53**	**50.544**	ug/L	0.742	1	93	96273	2	Standard
⌊	**Mn**	**55**	**51.688**	ug/L	0.528	1	527	1221587	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20128	1	KED
|	**Ni**	**60**	**50.808**	ug/L	1.186	2	13	45692	1	KED
|	**Ni**	**62**	**51.630**	ug/L	1.221	2	8	7618	1	KED
|	**Cu**	**63**	**50.907**	ug/L	0.634	1	34	136481	1	KED
|	**Cu**	**65**	**51.460**	ug/L	0.862	1	19	68124	1	KED
|	**Zn**	**66**	**52.014**	ug/L	1.795	3	36	18519	2	KED
|	**Zn**	**67**	**50.908**	ug/L	1.421	2	4	3094	1	KED
⌊	**As**	**75**	**50.147**	ug/L	1.061	2	5	8998	0	KED
	Y	**89**		ug/L			210865	198783	2	Standard
	Kr	**83**		ug/L			43	50	18	Standard
⌈>	**In-1**	**115**		ug/L			5860	5383	1	KED
|	**Cd**	**111**	**51.761**	ug/L	1.423	2	2	10094	1	KED
⌊	**Cd**	**114**	**51.677**	ug/L	0.549	1	6	24486	0	KED
⌈>	**Tb**	**159**		ug/L			480478	464608	3	Standard
⌊	**Pb**	**208**	**54.638**	ug/L	1.841	3	115	2107830	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:30:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30927	3	Standard
	Cl	**37**		ug/L			3324914	3324282	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	419721	2	Standard
|	**Cr**	**52**	**-0.028**	ug/L	0.018	64	16311	15685	0	Standard
|	**Cr**	**53**	**-0.005**	ug/L	0.003	61	93	81	10	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.000	12	527	611	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	20536	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.008	463	13	12	55	KED
|	**Ni**	**62**	**-0.024**	ug/L	0.020	84	8	4	65	KED
|	**Cu**	**63**	**0.006**	ug/L	0.005	88	34	48	29	KED
|	**Cu**	**65**	**0.001**	ug/L	0.006	529	19	20	41	KED
|	**Zn**	**66**	**0.058**	ug/L	0.016	27	36	56	10	KED
|	**Zn**	**67**	**0.074**	ug/L	0.068	91	4	8	44	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.009	984	5	5	28	KED
	Y	**89**		ug/L			210865	198820	1	Standard
	Kr	**83**		ug/L			43	48	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5658	2	KED
|	**Cd**	**111**	**0.005**	ug/L	0.008	147	2	3	45	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.010	291	6	4	112	KED
⌈>	**Tb**	**159**		ug/L			480478	462212	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	6	115	255	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:35:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				33587	1	Standard
	Cl	**37**		ug/L				3318464	1	Standard
⎡>	**Sc**	**45**		ug/L				408513	1	Standard
⎢	**Cr**	**52**		ug/L				15747	1	Standard
⎢	**Cr**	**53**		ug/L				81	12	Standard
⎣	**Mn**	**55**		ug/L				555	5	Standard
⎡>	**Ge**	**72**		ug/L				19427	2	KED
⎢	**Ni**	**60**		ug/L				13	24	KED
⎢	**Ni**	**62**		ug/L				8	35	KED
⎢	**Cu**	**63**		ug/L				28	30	KED
⎢	**Cu**	**65**		ug/L				17	48	KED
⎢	**Zn**	**66**		ug/L				33	6	KED
⎢	**Zn**	**67**		ug/L				3	50	KED
⎣	**As**	**75**		ug/L				5	5	KED
	Y	**89**		ug/L				199932	0	Standard
	Kr	**83**		ug/L				55	34	Standard
⎡>	**In-1**	**115**		ug/L				5415	1	KED
⎢	**Cd**	**111**		ug/L				1	132	KED
⎣	**Cd**	**114**		ug/L				1	100	KED
⎡>	**Tb**	**159**		ug/L				457409	3	Standard
⎣	**Pb**	**208**		ug/L				92	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:39:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30970	3	Standard
	Cl	**37**		ug/L			3318464	3596620	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	394965	1	Standard
|	**Cr**	**52**	**51.509**	ug/L	0.397	0	15747	825564	1	Standard
|	**Cr**	**53**	**51.719**	ug/L	0.617	1	81	94996	0	Standard
⌊	**Mn**	**55**	**51.863**	ug/L	0.740	1	555	1182141	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20111	0	KED
|	**Ni**	**60**	**51.495**	ug/L	0.793	1	13	46277	0	KED
|	**Ni**	**62**	**49.693**	ug/L	1.333	2	8	7328	2	KED
|	**Cu**	**63**	**49.772**	ug/L	0.361	0	28	133322	0	KED
|	**Cu**	**65**	**51.551**	ug/L	0.455	0	17	68194	0	KED
|	**Zn**	**66**	**49.789**	ug/L	0.975	1	33	17718	2	KED
|	**Zn**	**67**	**50.902**	ug/L	2.069	4	3	3091	3	KED
⌊	**As**	**75**	**49.446**	ug/L	0.718	1	5	8866	0	KED
	Y	**89**		ug/L			199932	189958	1	Standard
	Kr	**83**		ug/L			55	65	3	Standard
⌈>	**In-1**	**115**		ug/L			5415	5403	2	KED
|	**Cd**	**111**	**50.937**	ug/L	1.476	2	1	9967	0	KED
⌊	**Cd**	**114**	**51.669**	ug/L	1.325	2	1	24561	0	KED
⌈>	**Tb**	**159**		ug/L			457409	448132	1	Standard
⌊	**Pb**	**208**	**55.044**	ug/L	1.318	2	92	2049277	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:46:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31277	1	Standard
	Cl	**37**		ug/L			3318464	3347711	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	407725	2	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.028	283	15747	15562	4	Standard
|	**Cr**	**53**	**0.006**	ug/L	0.003	57	81	92	8	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	31	555	639	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	20045	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.012	990	13	12	82	KED
|	**Ni**	**62**	**-0.023**	ug/L	0.027	115	8	5	78	KED
|	**Cu**	**63**	**0.010**	ug/L	0.005	52	28	57	26	KED
|	**Cu**	**65**	**0.007**	ug/L	0.014	195	17	27	68	KED
|	**Zn**	**66**	**0.065**	ug/L	0.014	21	33	57	9	KED
|	**Zn**	**67**	**0.177**	ug/L	0.113	63	3	14	45	KED
⌊	**As**	**75**	**0.005**	ug/L	0.014	266	5	6	40	KED
	Y	**89**		ug/L			199932	200193	1	Standard
	Kr	**83**		ug/L			55	40	26	Standard
⌈>	**In-1**	**115**		ug/L			5415	5910	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.003	38	1	0	86	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	663	1	2	96	KED
⌈>	**Tb**	**159**		ug/L			457409	454753	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	15	92	238	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:51:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46306	2	Standard
	Cl	**37**		ug/L			3318464	3350138	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	427778	3	Standard
|	**Cr**	**52**	**0.369**	ug/L	0.027	7	15747	22773	1	Standard
|	**Cr**	**53**	**0.309**	ug/L	0.016	5	81	697	1	Standard
⌊	**Mn**	**55**	**3.057**	ug/L	0.038	1	555	76004	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20924	1	KED
|	**Ni**	**60**	**0.076**	ug/L	0.011	14	13	85	11	KED
|	**Ni**	**62**	**0.083**	ug/L	0.025	29	8	21	18	KED
|	**Cu**	**63**	**0.332**	ug/L	0.020	5	28	956	5	KED
|	**Cu**	**65**	**0.354**	ug/L	0.027	7	17	506	7	KED
|	**Zn**	**66**	**38.381**	ug/L	1.158	3	33	14219	3	KED
|	**Zn**	**67**	**32.496**	ug/L	0.686	2	3	2054	1	KED
⌊	**As**	**75**	**0.233**	ug/L	0.008	3	5	48	2	KED
	Y	**89**		ug/L			199932	208192	3	Standard
	Kr	**83**		ug/L			55	46	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5647	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.009	1856	1	1	100	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.017	155	1	7	115	KED
⌈>	**Tb**	**159**		ug/L			457409	477111	5	Standard
⌊	**Pb**	**208**	**0.077**	ug/L	0.005	6	92	3142	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-03
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:55:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46846	4	Standard
	Cl	**37**		ug/L			3318464	3317272	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	432261	2	Standard
|	**Cr**	**52**	**0.379**	ug/L	0.031	8	15747	23190	1	Standard
|	**Cr**	**53**	**0.309**	ug/L	0.011	3	81	706	3	Standard
⌊	**Mn**	**55**	**1.417**	ug/L	0.041	2	555	35926	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	19961	1	KED
|	**Ni**	**60**	**0.170**	ug/L	0.007	3	13	165	2	KED
|	**Ni**	**62**	**0.129**	ug/L	0.039	30	8	27	21	KED
|	**Cu**	**63**	**0.436**	ug/L	0.019	4	28	1188	2	KED
|	**Cu**	**65**	**0.457**	ug/L	0.017	3	17	617	1	KED
|	**Zn**	**66**	**13.524**	ug/L	0.232	1	33	4802	2	KED
|	**Zn**	**67**	**11.651**	ug/L	0.589	5	3	705	5	KED
⌊	**As**	**75**	**0.211**	ug/L	0.039	18	5	42	14	KED
	Y	**89**		ug/L			199932	208898	2	Standard
	Kr	**83**		ug/L			55	55	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5739	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.009	92	1	4	48	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	145	1	3	57	KED
⌈>	**Tb**	**159**		ug/L			457409	477446	5	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.002	8	92	885	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-05
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:00:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	44371	1	Standard
	Cl	**37**		ug/L			3318464	3429934	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	428994	1	Standard
|	**Cr**	**52**	**0.417**	ug/L	0.019	4	15747	23668	1	Standard
|	**Cr**	**53**	**0.383**	ug/L	0.006	1	81	848	2	Standard
⌊	**Mn**	**55**	**3.518**	ug/L	0.061	1	555	87646	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20983	1	KED
|	**Ni**	**60**	**0.130**	ug/L	0.028	21	13	136	20	KED
|	**Ni**	**62**	**0.099**	ug/L	0.017	16	8	24	12	KED
|	**Cu**	**63**	**0.275**	ug/L	0.035	12	28	800	11	KED
|	**Cu**	**65**	**0.272**	ug/L	0.012	4	17	393	4	KED
|	**Zn**	**66**	**70.741**	ug/L	1.695	2	33	26245	1	KED
|	**Zn**	**67**	**60.426**	ug/L	1.594	2	3	3827	2	KED
⌊	**As**	**75**	**0.153**	ug/L	0.036	23	5	34	19	KED
	Y	**89**		ug/L			199932	208047	1	Standard
	Kr	**83**		ug/L			55	48	8	Standard
⌈>	**In-1**	**115**		ug/L			5415	5847	3	KED
|	**Cd**	**111**	**0.014**	ug/L	0.010	68	1	5	39	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.010	129	1	6	90	KED
⌈>	**Tb**	**159**		ug/L			457409	476371	3	Standard
⌊	**Pb**	**208**	**0.042**	ug/L	0.003	6	92	1751	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-07
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:04:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	44292	0	Standard
	Cl	**37**		ug/L			3318464	3326408	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	417133	2	Standard
|	**Cr**	**52**	**0.389**	ug/L	0.034	8	15747	22542	1	Standard
|	**Cr**	**53**	**0.356**	ug/L	0.018	5	81	773	4	Standard
⌊	**Mn**	**55**	**1.427**	ug/L	0.011	0	555	34909	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20974	1	KED
|	**Ni**	**60**	**0.234**	ug/L	0.034	14	13	233	12	KED
|	**Ni**	**62**	**0.182**	ug/L	0.022	12	8	36	7	KED
|	**Cu**	**63**	**0.647**	ug/L	0.016	2	28	1837	1	KED
|	**Cu**	**65**	**0.645**	ug/L	0.013	2	17	907	0	KED
|	**Zn**	**66**	**6.556**	ug/L	0.285	4	33	2463	2	KED
|	**Zn**	**67**	**5.972**	ug/L	0.570	9	3	381	8	KED
⌊	**As**	**75**	**0.237**	ug/L	0.013	5	5	49	4	KED
	Y	**89**		ug/L			199932	208530	1	Standard
	Kr	**83**		ug/L			55	35	40	Standard
⌈>	**In-1**	**115**		ug/L			5415	5857	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.010	465	1	1	124	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	141	1	3	70	KED
⌈>	**Tb**	**159**		ug/L			457409	465131	3	Standard
⌊	**Pb**	**208**	**0.024**	ug/L	0.001	3	92	1003	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-09
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:08:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	42517	1	Standard
	Cl	**37**		ug/L			3318464	3268332	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	413982	2	Standard
|	**Cr**	**52**	**0.391**	ug/L	0.010	2	15747	22402	2	Standard
|	**Cr**	**53**	**0.378**	ug/L	0.004	1	81	810	2	Standard
⌊	**Mn**	**55**	**3.774**	ug/L	0.036	0	555	90700	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20046	1	KED
|	**Ni**	**60**	**0.089**	ug/L	0.013	14	13	93	13	KED
|	**Ni**	**62**	**0.050**	ug/L	0.027	53	8	15	24	KED
|	**Cu**	**63**	**0.268**	ug/L	0.015	5	28	743	3	KED
|	**Cu**	**65**	**0.269**	ug/L	0.023	8	17	372	7	KED
|	**Zn**	**66**	**52.618**	ug/L	1.257	2	33	18658	1	KED
|	**Zn**	**67**	**47.176**	ug/L	1.333	2	3	2857	4	KED
⌊	**As**	**75**	**0.166**	ug/L	0.017	10	5	34	10	KED
	Y	**89**		ug/L			199932	204081	4	Standard
	Kr	**83**		ug/L			55	39	7	Standard
⌈>	**In-1**	**115**		ug/L			5415	5718	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.007	326	1	1	91	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.007	107	1	5	66	KED
⌈>	**Tb**	**159**		ug/L			457409	454421	4	Standard
⌊	**Pb**	**208**	**0.043**	ug/L	0.002	3	92	1718	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-11
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:13:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	45620	3	Standard
	Cl	**37**		ug/L			3318464	3260661	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	423807	2	Standard
|	**Cr**	**52**	**0.383**	ug/L	0.051	13	15747	22795	2	Standard
|	**Cr**	**53**	**0.354**	ug/L	0.030	8	81	781	4	Standard
⌊	**Mn**	**55**	**1.233**	ug/L	0.013	1	555	30721	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20930	5	KED
|	**Ni**	**60**	**0.134**	ug/L	0.015	11	13	139	10	KED
|	**Ni**	**62**	**0.124**	ug/L	0.033	26	8	27	20	KED
|	**Cu**	**63**	**0.382**	ug/L	0.016	4	28	1092	2	KED
|	**Cu**	**65**	**0.404**	ug/L	0.017	4	17	574	9	KED
|	**Zn**	**66**	**8.639**	ug/L	0.140	1	33	3227	3	KED
|	**Zn**	**67**	**7.793**	ug/L	0.585	7	3	495	5	KED
⌊	**As**	**75**	**0.173**	ug/L	0.024	13	5	37	10	KED
	Y	**89**		ug/L			199932	205177	2	Standard
	Kr	**83**		ug/L			55	42	38	Standard
⌈>	**In-1**	**115**		ug/L			5415	5979	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	109	1	1	34	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	62	1	0	154	KED
⌈>	**Tb**	**159**		ug/L			457409	474826	3	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.001	6	92	900	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0612-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:17:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	57890	1	Standard
	Cl	37		ug/L			3318464	3606158	2	Standard
>	Sc	45		ug/L			408513	473375	2	Standard
	Cr	52	1.614	ug/L	0.067	4	15747	48662	0	Standard
	Cr	53	1.814	ug/L	0.025	1	81	4083	2	Standard
	Mn	55	235.781	ug/L	4.900	2	555	6437196	0	Standard
>	Ge	72		ug/L			19427	20609	0	KED
	Ni	60	3.552	ug/L	0.325	9	13	3285	9	KED
	Ni	62	3.715	ug/L	0.144	3	8	569	3	KED
	Cu	63	4.040	ug/L	0.058	1	28	11115	0	KED
	Cu	65	4.237	ug/L	0.092	2	17	5759	2	KED
	Zn	66	7.227	ug/L	0.044	0	33	2666	1	KED
	Zn	67	9.392	ug/L	0.362	3	3	587	4	KED
	As	75	0.432	ug/L	0.039	8	5	84	8	KED
	Y	89		ug/L			199932	224064	2	Standard
	Kr	83		ug/L			55	41	19	Standard
>	In-1	115		ug/L			5415	5487	2	KED
	Cd	111	0.280	ug/L	0.029	10	1	57	8	KED
	Cd	114	0.268	ug/L	0.046	17	1	131	15	KED
>	Tb	159		ug/L			457409	486470	3	Standard
	Pb	208	0.683	ug/L	0.022	3	92	27689	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:22:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	54314	0	Standard
	Cl	37		ug/L			3318464	3693854	0	Standard
⌈>	Sc	45		ug/L			408513	458604	2	Standard
|	Cr	52	1.555	ug/L	0.067	4	15747	46059	2	Standard
|	Cr	53	1.708	ug/L	0.052	3	81	3728	0	Standard
⌊	Mn	55	229.361	ug/L	5.344	2	555	6066297	1	Standard
⌈>	Ge	72		ug/L			19427	19572	2	KED
|	Ni	60	3.456	ug/L	0.068	1	13	3035	2	KED
|	Ni	62	3.407	ug/L	0.142	4	8	496	3	KED
|	Cu	63	4.107	ug/L	0.103	2	28	10729	0	KED
|	Cu	65	4.106	ug/L	0.126	3	17	5303	4	KED
|	Zn	66	6.959	ug/L	0.240	3	33	2439	4	KED
|	Zn	67	9.027	ug/L	0.310	3	3	536	1	KED
⌊	As	75	0.454	ug/L	0.019	4	5	84	4	KED
	Y	89		ug/L			199932	208496	2	Standard
	Kr	83		ug/L			55	49	20	Standard
⌈>	In-1	115		ug/L			5415	5597	1	KED
|	Cd	111	0.310	ug/L	0.018	5	1	64	6	KED
⌊	Cd	114	0.283	ug/L	0.017	5	1	141	6	KED
⌈>	Tb	159		ug/L			457409	466932	4	Standard
⌊	Pb	208	0.661	ug/L	0.018	2	92	25707	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:28:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			33587	48512	2	Standard
	Cl		37		ug/L			3318464	3728660	0	Standard
⌈>	Sc		45		ug/L			408513	452065	2	Standard
|	Cr		52	25.566	ug/L	0.743	2	15747	477531	0	Standard
|	Cr		53	25.252	ug/L	0.699	2	81	53110	0	Standard
⌊	Mn	STL	55	253.723	ug/L	2.833	1	555	6616659	2	Standard
⌈>	Ge		72		ug/L			19427	19338	1	KED
|	Ni		60	31.412	ug/L	0.405	1	13	27147	0	KED
|	Ni		62	31.206	ug/L	0.733	2	8	4429	3	KED
|	Cu		63	30.265	ug/L	0.252	0	28	77959	0	KED
|	Cu		65	30.490	ug/L	0.053	0	17	38789	1	KED
|	Zn		66	84.055	ug/L	2.072	2	33	28736	2	KED
|	Zn		67	81.619	ug/L	1.242	1	3	4763	0	KED
⌊	As		75	25.683	ug/L	0.180	0	5	4430	0	KED
	Y		89		ug/L			199932	212169	0	Standard
	Kr		83		ug/L			55	62	16	Standard
⌈>	In-1		115		ug/L			5415	5409	1	KED
|	Cd		111	25.302	ug/L	0.634	2	1	4958	0	KED
⌊	Cd		114	25.162	ug/L	0.568	2	1	11977	0	KED
⌈>	Tb		159		ug/L			457409	465004	3	Standard
⌊	Pb		208	28.627	ug/L	1.065	3	92	1105250	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:32:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31245	3	Standard
	Cl	**37**		ug/L			3318464	3504213	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	393571	6	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.015	71	15747	15493	4	Standard
|	**Cr**	**53**	**0.024**	ug/L	0.012	50	81	120	13	Standard
⌊	**Mn**	**55**	**0.021**	ug/L	0.005	21	555	1014	12	Standard
⌈>	**Ge**	**72**		ug/L			19427	20139	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	57	13	8	32	KED
|	**Ni**	**62**	**-0.019**	ug/L	0.001	2	8	5	0	KED
|	**Cu**	**63**	**0.005**	ug/L	0.000	4	28	41	0	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	80	17	13	20	KED
|	**Zn**	**66**	**0.009**	ug/L	0.004	44	33	38	5	KED
|	**Zn**	**67**	**-0.002**	ug/L	0.054	2197	3	3	86	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.008	170	5	4	32	KED
	Y	**89**		ug/L			199932	191989	2	Standard
	Kr	**83**		ug/L			55	42	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5524	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	168	1	1	34	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	144	1	1	90	KED
⌈>	**Tb**	**159**		ug/L			457409	446015	6	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	17	92	279	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:36:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	33647	1	Standard
	Cl	**37**		ug/L			3318464	3707357	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	435452	1	Standard
⎢	**Cr**	**52**	**50.081**	ug/L	0.953	1	15747	885200	0	Standard
⎢	**Cr**	**53**	**50.410**	ug/L	0.762	1	81	102075	1	Standard
⎣	**Mn**	**55**	**51.436**	ug/L	0.123	0	555	1292705	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	20607	4	KED
⎢	**Ni**	**60**	**51.134**	ug/L	0.755	1	13	47074	3	KED
⎢	**Ni**	**62**	**51.624**	ug/L	1.291	2	8	7796	2	KED
⎢	**Cu**	**63**	**51.331**	ug/L	0.752	1	28	140827	3	KED
⎢	**Cu**	**65**	**51.481**	ug/L	1.532	2	17	69742	3	KED
⎢	**Zn**	**66**	**51.087**	ug/L	0.927	1	33	18618	2	KED
⎢	**Zn**	**67**	**51.512**	ug/L	2.299	4	3	3201	1	KED
⎣	**As**	**75**	**50.374**	ug/L	0.634	1	5	9252	3	KED
	Y	**89**		ug/L			199932	211392	2	Standard
	Kr	**83**		ug/L			55	59	8	Standard
⎡>	**In-1**	**115**		ug/L			5415	5800	1	KED
⎢	**Cd**	**111**	**51.708**	ug/L	0.765	1	1	10866	0	KED
⎣	**Cd**	**114**	**51.413**	ug/L	0.327	0	1	26249	2	KED
⎡>	**Tb**	**159**		ug/L			457409	489522	3	Standard
⎣	**Pb**	**208**	**54.269**	ug/L	1.446	2	92	2206418	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:43:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30478	2	Standard
	Cl	**37**		ug/L			3318464	3570448	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	400324	2	Standard
|	**Cr**	**52**	**0.018**	ug/L	0.023	132	15747	15709	2	Standard
|	**Cr**	**53**	**0.009**	ug/L	0.004	38	81	96	6	Standard
⌊	**Mn**	**55**	**0.005**	ug/L	0.004	70	555	666	13	Standard
⌈>	**Ge**	**72**		ug/L			19427	20049	2	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	2477	13	13	28	KED
|	**Ni**	**62**	**-0.028**	ug/L	0.014	51	8	4	49	KED
|	**Cu**	**63**	**0.005**	ug/L	0.002	45	28	43	13	KED
|	**Cu**	**65**	**0.007**	ug/L	0.004	61	17	26	21	KED
|	**Zn**	**66**	**0.094**	ug/L	0.028	29	33	67	13	KED
|	**Zn**	**67**	**0.082**	ug/L	0.102	124	3	8	68	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.010	4987	5	5	36	KED
	Y	**89**		ug/L			199932	193790	1	Standard
	Kr	**83**		ug/L			55	43	24	Standard
⌈>	**In-1**	**115**		ug/L			5415	5596	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	79	1	1	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.004	2086	1	1	107	KED
⌈>	**Tb**	**159**		ug/L			457409	448177	4	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.004	62	92	317	41	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0010-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:48:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43568	5	Standard
	Cl	**37**		ug/L			3318464	3501110	4	Standard
⌈>	**Sc**	**45**		ug/L			408513	394796	11	Standard
|	**Cr**	**52**	**0.233**	ug/L	0.079	34	15747	18788	4	Standard
|	**Cr**	**53**	**0.250**	ug/L	0.025	9	81	533	3	Standard
⌊	**Mn**	**55**	**2.655**	ug/L	0.126	4	555	60792	6	Standard
⌈>	**Ge**	**72**		ug/L			19427	19575	1	KED
|	**Ni**	**60**	**0.144**	ug/L	0.004	2	13	139	2	KED
|	**Ni**	**62**	**0.101**	ug/L	0.022	21	8	22	14	KED
|	**Cu**	**63**	**1.064**	ug/L	0.041	3	28	2803	4	KED
|	**Cu**	**65**	**1.064**	ug/L	0.043	4	17	1386	4	KED
|	**Zn**	**66**	**17.834**	ug/L	0.454	2	33	6198	1	KED
|	**Zn**	**67**	**15.570**	ug/L	0.963	6	3	923	6	KED
⌊	**As**	**75**	**0.094**	ug/L	0.015	15	5	21	11	KED
	Y	**89**		ug/L			199932	194758	8	Standard
	Kr	**83**		ug/L			55	43	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	5410	1	KED
|	**Cd**	**111**	**0.031**	ug/L	0.017	54	1	7	42	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.010	30	1	17	27	KED
⌈>	**Tb**	**159**		ug/L			457409	441334	12	Standard
⌊	**Pb**	**208**	**0.124**	ug/L	0.009	6	92	4600	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0013-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:52:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40764	4	Standard
	Cl	**37**		ug/L			3318464	4278838	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	442684	2	Standard
|	**Cr**	**52**	**1.525**	ug/L	0.047	3	15747	43948	0	Standard
|	**Cr**	**53**	**2.149**	ug/L	0.050	2	81	4507	1	Standard
⌊	**Mn**	**55**	**7.713**	ug/L	0.072	0	555	197603	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20179	1	KED
|	**Ni**	**60**	**0.875**	ug/L	0.042	4	13	802	3	KED
|	**Ni**	**62**	**0.835**	ug/L	0.044	5	8	132	5	KED
|	**Cu**	**63**	**4.024**	ug/L	0.175	4	28	10835	2	KED
|	**Cu**	**65**	**4.146**	ug/L	0.092	2	17	5519	2	KED
|	**Zn**	**66**	**35.740**	ug/L	1.453	4	33	12767	3	KED
|	**Zn**	**67**	**34.458**	ug/L	1.173	3	3	2100	1	KED
⌊	**As**	**75**	**0.583**	ug/L	0.019	3	5	110	4	KED
	Y	**89**		ug/L			199932	212904	0	Standard
	Kr	**83**		ug/L			55	51	25	Standard
⌈>	**In-1**	**115**		ug/L			5415	5491	0	KED
|	**Cd**	**111**	**0.037**	ug/L	0.010	28	1	9	21	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.024	56	1	22	51	KED
⌈>	**Tb**	**159**		ug/L			457409	480657	4	Standard
⌊	**Pb**	**208**	**1.292**	ug/L	0.059	4	92	51630	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0016-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:56:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	112973	3	Standard
	Cl	**37**		ug/L			3318464	3436786	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	438051	2	Standard
|	**Cr**	**52**	**0.757**	ug/L	0.017	2	15747	30093	2	Standard
|	**Cr**	**53**	**0.633**	ug/L	0.018	2	81	1375	3	Standard
⌊	**Mn**	**55**	**137.991**	ug/L	2.605	1	555	3486652	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21068	2	KED
|	**Ni**	**60**	**22.080**	ug/L	0.986	4	13	20782	2	KED
|	**Ni**	**62**	**21.694**	ug/L	0.462	2	8	3356	2	KED
|	**Cu**	**63**	**6.877**	ug/L	0.269	3	28	19311	1	KED
|	**Cu**	**65**	**6.946**	ug/L	0.280	4	17	9635	1	KED
|	**Zn**	**66**	**2.584**	ug/L	0.087	3	33	997	2	KED
|	**Zn**	**67**	**2.439**	ug/L	0.281	11	3	159	13	KED
⌊	**As**	**75**	**0.432**	ug/L	0.023	5	5	86	2	KED
	Y	**89**		ug/L			199932	204220	0	Standard
	Kr	**83**		ug/L			55	43	19	Standard
⌈>	**In-1**	**115**		ug/L			5415	5520	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.010	160	1	3	62	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	136	1	4	82	KED
⌈>	**Tb**	**159**		ug/L			457409	463321	4	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.002	10	92	930	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0016-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:01:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	62082	1	Standard
	Cl	**37**		ug/L			3318464	3812204	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	426637	2	Standard
|	**Cr**	**52**	**1.955**	ug/L	0.045	2	15747	49656	2	Standard
|	**Cr**	**53**	**2.166**	ug/L	0.032	1	81	4377	2	Standard
⌊	**Mn**	**55**	**244.340**	ug/L	2.654	1	555	6013502	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21093	1	KED
|	**Ni**	**60**	**3.642**	ug/L	0.207	5	13	3443	3	KED
|	**Ni**	**62**	**3.751**	ug/L	0.088	2	8	588	3	KED
|	**Cu**	**63**	**17.431**	ug/L	0.298	1	28	48980	0	KED
|	**Cu**	**65**	**17.903**	ug/L	0.199	1	17	24848	1	KED
|	**Zn**	**66**	**1001.272**	ug/L	14.385	1	33	372960	0	KED
|	**Zn**	**67**	**872.911**	ug/L	18.856	2	3	55528	1	KED
⌊	**As**	**75**	**0.516**	ug/L	0.018	3	5	102	1	KED
	Y	**89**		ug/L			199932	212826	2	Standard
	Kr	**83**		ug/L			55	54	11	Standard
⌈>	**In-1**	**115**		ug/L			5415	5979	0	KED
|	**Cd**	**111**	**0.122**	ug/L	0.025	20	1	28	20	KED
⌊	**Cd**	**114**	**0.119**	ug/L	0.007	5	1	64	4	KED
⌈>	**Tb**	**159**		ug/L			457409	470457	4	Standard
⌊	**Pb**	**208**	**1.411**	ug/L	0.063	4	92	55174	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0522-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:05:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	41811	0	Standard
	Cl	**37**		ug/L			3318464	3669736	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	422121	3	Standard
|	**Cr**	**52**	**1.264**	ug/L	0.080	6	15747	37501	0	Standard
|	**Cr**	**53**	**1.465**	ug/L	0.055	3	81	2956	0	Standard
⌊	**Mn**	**55**	**14.832**	ug/L	0.130	0	555	361686	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20665	1	KED
|	**Ni**	**60**	**0.888**	ug/L	0.101	11	13	833	10	KED
|	**Ni**	**62**	**0.865**	ug/L	0.056	6	8	139	6	KED
|	**Cu**	**63**	**5.761**	ug/L	0.141	2	28	15883	2	KED
|	**Cu**	**65**	**5.782**	ug/L	0.155	2	17	7873	1	KED
|	**Zn**	**66**	**82.513**	ug/L	3.369	4	33	30136	2	KED
|	**Zn**	**67**	**75.416**	ug/L	2.102	2	3	4703	1	KED
⌊	**As**	**75**	**0.226**	ug/L	0.050	21	5	46	18	KED
	Y	**89**		ug/L			199932	205975	1	Standard
	Kr	**83**		ug/L			55	49	37	Standard
⌈>	**In-1**	**115**		ug/L			5415	5674	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.007	14	1	12	11	KED
⌊	**Cd**	**114**	**0.047**	ug/L	0.004	9	1	25	7	KED
⌈>	**Tb**	**159**		ug/L			457409	471462	4	Standard
⌊	**Pb**	**208**	**1.899**	ug/L	0.082	4	92	74386	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0536-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:10:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	73362	1	Standard
	Cl	**37**		ug/L			3318464	3547350	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	470934	2	Standard
|	**Cr**	**52**	**2.684**	ug/L	0.054	2	15747	68510	3	Standard
|	**Cr**	**53**	**2.756**	ug/L	0.007	0	81	6125	2	Standard
⌊	**Mn**	**55**	**61.284**	ug/L	1.402	2	555	1665396	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20630	2	KED
|	**Ni**	**60**	**1.355**	ug/L	0.091	6	13	1263	7	KED
|	**Ni**	**62**	**1.282**	ug/L	0.068	5	8	202	5	KED
|	**Cu**	**63**	**12.971**	ug/L	0.255	1	28	35655	0	KED
|	**Cu**	**65**	**12.556**	ug/L	0.187	1	17	17054	3	KED
|	**Zn**	**66**	**378.690**	ug/L	9.701	2	33	137965	1	KED
|	**Zn**	**67**	**338.156**	ug/L	1.487	0	3	21045	1	KED
⌊	**As**	**75**	**2.786**	ug/L	0.023	0	5	517	1	KED
	Y	**89**		ug/L			199932	234872	2	Standard
	Kr	**83**		ug/L			55	46	28	Standard
⌈>	**In-1**	**115**		ug/L			5415	5776	2	KED
|	**Cd**	**111**	**0.177**	ug/L	0.017	9	1	39	11	KED
⌊	**Cd**	**114**	**0.169**	ug/L	0.030	17	1	87	17	KED
⌈>	**Tb**	**159**		ug/L			457409	489149	4	Standard
⌊	**Pb**	**208**	**2.696**	ug/L	0.105	3	92	109586	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0536-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:14:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	72363	3	Standard
	Cl	**37**		ug/L			3318464	44785837	2	Standard
>	**Sc**	**45**		ug/L			408513	359597	2	Standard
	Cr	**52**	**3.344**	ug/L	0.117	3	15747	61729	1	Standard
	Cr	**53**	**23.770**	ug/L	0.726	3	81	39771	0	Standard
	Mn	**55**	**92.855**	ug/L	2.112	2	555	1926060	1	Standard
>	**Ge**	**72**		ug/L			19427	15011	1	KED
	Ni	**60**	**2.392**	ug/L	0.089	3	13	1614	3	KED
	Ni	**62**	**3.682**	ug/L	0.185	5	8	411	6	KED
	Cu	**63**	**10.188**	ug/L	0.137	1	28	20384	0	KED
	Cu	**65**	**10.045**	ug/L	0.129	1	17	9928	1	KED
	Zn	**66**	**280.800**	ug/L	1.862	0	33	74465	0	KED
	Zn	**67**	**249.620**	ug/L	5.261	2	3	11303	0	KED
	As	**75**	**1.175**	ug/L	0.026	2	5	161	0	KED
	Y	**89**		ug/L			199932	184503	1	Standard
	Kr	**83**		ug/L			55	2614	2	Standard
>	**In-1**	**115**		ug/L			5415	4193	1	KED
	Cd	**111**	**0.313**	ug/L	0.094	30	1	48	27	KED
	Cd	**114**	**0.206**	ug/L	0.047	23	1	77	21	KED
>	**Tb**	**159**		ug/L			457409	427012	2	Standard
	Pb	**208**	**3.212**	ug/L	0.059	1	92	114017	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-DUP1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, January 10, 2023 07:18:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46050	5	Standard
	Cl	**37**		ug/L			3318464	9472557	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	435361	1	Standard
|	**Cr**	**52**	**17.479**	ug/L	0.342	1	15747	319825	0	Standard
|	**Cr**	**53**	**24.854**	ug/L	0.557	2	81	50357	0	Standard
⌊	**Mn**	**55**	**5.347**	ug/L	0.027	0	555	134867	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20069	1	KED
|	**Ni**	**60**	**2.259**	ug/L	0.040	1	13	2038	0	KED
|	**Ni**	**62**	**2.565**	ug/L	0.192	7	8	385	6	KED
|	**Cu**	**63**	**24.786**	ug/L	0.410	1	28	66263	1	KED
|	**Cu**	**65**	**25.388**	ug/L	0.459	1	17	33518	0	KED
|	**Zn**	**66**	**28.456**	ug/L	0.652	2	33	10118	0	KED
|	**Zn**	**67**	**24.653**	ug/L	0.449	1	3	1496	3	KED
⌊	**As**	**75**	**0.335**	ug/L	0.028	8	5	65	7	KED
	Y	**89**		ug/L			199932	200814	0	Standard
	Kr	**83**		ug/L			55	66	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5541	2	KED
|	**Cd**	**111**	**0.149**	ug/L	0.051	34	1	31	29	KED
⌊	**Cd**	**114**	**0.164**	ug/L	0.030	18	1	81	14	KED
⌈>	**Tb**	**159**		ug/L			457409	486106	3	Standard
⌊	**Pb**	**208**	**0.426**	ug/L	0.016	3	92	17305	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-MS1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, January 10, 2023 07:23:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43978	1	Standard
	Cl	**37**		ug/L			3318464	9366230	4	Standard
⌈>	**Sc**	**45**		ug/L			408513	443408	1	Standard
|	**Cr**	**52**	**42.648**	ug/L	0.410	0	15747	770251	0	Standard
|	**Cr**	**53**	**46.223**	ug/L	0.694	1	81	95321	0	Standard
⌊	**Mn**	**55**	**29.447**	ug/L	0.709	2	555	753736	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20923	1	KED
|	**Ni**	**60**	**28.103**	ug/L	0.049	0	13	26283	1	KED
|	**Ni**	**62**	**28.328**	ug/L	1.230	4	8	4351	5	KED
|	**Cu**	**63**	**50.240**	ug/L	0.859	1	28	139981	0	KED
|	**Cu**	**65**	**51.238**	ug/L	1.188	2	17	70506	2	KED
|	**Zn**	**66**	**103.825**	ug/L	0.413	0	33	38400	1	KED
|	**Zn**	**67**	**93.942**	ug/L	0.765	0	3	5933	2	KED
⌊	**As**	**75**	**26.513**	ug/L	0.322	1	5	4948	1	KED
	Y	**89**		ug/L			199932	207839	2	Standard
	Kr	**83**		ug/L			55	124	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	5581	0	KED
|	**Cd**	**111**	**24.586**	ug/L	0.446	1	1	4973	1	KED
⌊	**Cd**	**114**	**24.953**	ug/L	0.544	2	1	12260	2	KED
⌈>	**Tb**	**159**		ug/L			457409	491432	3	Standard
⌊	**Pb**	**208**	**24.910**	ug/L	0.610	2	92	1016845	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:28:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32672	1	Standard
	Cl	**37**		ug/L			3318464	3853976	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	430854	1	Standard
|	**Cr**	**52**	**0.085**	ug/L	0.023	26	15747	18067	0	Standard
|	**Cr**	**53**	**0.678**	ug/L	0.020	2	81	1442	4	Standard
⌊	**Mn**	**55**	**0.011**	ug/L	0.001	5	555	868	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21760	0	KED
|	**Ni**	**60**	**-0.012**	ug/L	0.001	9	13	3	34	KED
|	**Ni**	**62**	**0.010**	ug/L	0.014	142	8	10	20	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	35	28	55	15	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	98	17	24	19	KED
|	**Zn**	**66**	**0.019**	ug/L	0.016	81	33	45	13	KED
|	**Zn**	**67**	**0.090**	ug/L	0.044	49	3	10	28	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.012	766	5	5	41	KED
	Y	**89**		ug/L			199932	208753	1	Standard
	Kr	**83**		ug/L			55	52	20	Standard
⌈>	**In-1**	**115**		ug/L			5415	5908	3	KED
|	**Cd**	**111**	**0.005**	ug/L	0.014	282	1	3	96	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	800	1	2	120	KED
⌈>	**Tb**	**159**		ug/L			457409	488977	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	18	92	252	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:32:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32829	2	Standard
	Cl	**37**		ug/L			3318464	3828910	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	436149	1	Standard
|	**Cr**	**52**	**51.140**	ug/L	0.501	0	15747	905169	0	Standard
|	**Cr**	**53**	**51.343**	ug/L	0.769	1	81	104141	1	Standard
⌊	**Mn**	**55**	**52.117**	ug/L	0.697	1	555	1311988	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21735	0	KED
|	**Ni**	**60**	**51.373**	ug/L	0.445	0	13	49899	0	KED
|	**Ni**	**62**	**49.701**	ug/L	0.941	1	8	7922	1	KED
|	**Cu**	**63**	**51.021**	ug/L	0.847	1	28	147707	1	KED
|	**Cu**	**65**	**50.777**	ug/L	0.663	1	17	72594	1	KED
|	**Zn**	**66**	**51.553**	ug/L	0.870	1	33	19827	1	KED
|	**Zn**	**67**	**51.114**	ug/L	0.391	0	3	3355	0	KED
⌊	**As**	**75**	**51.747**	ug/L	0.321	0	5	10028	0	KED
	Y	**89**		ug/L			199932	216510	5	Standard
	Kr	**83**		ug/L			55	43	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5938	1	KED
|	**Cd**	**111**	**50.998**	ug/L	1.121	2	1	10972	1	KED
⌊	**Cd**	**114**	**52.391**	ug/L	1.022	1	1	27378	0	KED
⌈>	**Tb**	**159**		ug/L			457409	499124	3	Standard
⌊	**Pb**	**208**	**51.954**	ug/L	1.190	2	92	2154016	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:39:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	29955	2	Standard
	Cl	**37**		ug/L			3318464	3570965	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	408860	0	Standard
|	**Cr**	**52**	**0.054**	ug/L	0.022	40	15747	16648	3	Standard
|	**Cr**	**53**	**0.267**	ug/L	0.010	3	81	587	2	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.002	26	555	699	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	20392	1	KED
|	**Ni**	**60**	**0.014**	ug/L	0.020	143	13	26	68	KED
|	**Ni**	**62**	**0.015**	ug/L	0.054	365	8	10	73	KED
|	**Cu**	**63**	**0.028**	ug/L	0.031	110	28	105	79	KED
|	**Cu**	**65**	**0.029**	ug/L	0.048	168	17	56	114	KED
|	**Zn**	**66**	**0.124**	ug/L	0.090	72	33	80	40	KED
|	**Zn**	**67**	**0.204**	ug/L	0.110	53	3	16	40	KED
⌊	**As**	**75**	**0.016**	ug/L	0.029	181	5	8	64	KED
	Y	**89**		ug/L			199932	198779	2	Standard
	Kr	**83**		ug/L			55	48	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5592	0	KED
|	**Cd**	**111**	**0.006**	ug/L	0.015	253	1	3	96	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.006	585	1	2	121	KED
⌈>	**Tb**	**159**		ug/L			457409	461457	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	12	92	231	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0523-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:43:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	45919	1	Standard
	Cl	**37**		ug/L			3318464	3930683	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	461672	1	Standard
|	**Cr**	**52**	**1.132**	ug/L	0.015	1	15747	38604	0	Standard
|	**Cr**	**53**	**1.662**	ug/L	0.036	2	81	3656	2	Standard
⌊	**Mn**	**55**	**23.634**	ug/L	0.452	1	555	629960	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	21545	1	KED
|	**Ni**	**60**	**1.088**	ug/L	0.025	2	13	1061	1	KED
|	**Ni**	**62**	**1.049**	ug/L	0.062	5	8	174	3	KED
|	**Cu**	**63**	**6.072**	ug/L	0.166	2	28	17448	1	KED
|	**Cu**	**65**	**6.011**	ug/L	0.162	2	17	8532	1	KED
|	**Zn**	**66**	**159.680**	ug/L	4.687	2	33	60776	1	KED
|	**Zn**	**67**	**149.875**	ug/L	4.288	2	3	9741	1	KED
⌊	**As**	**75**	**0.263**	ug/L	0.020	7	5	56	5	KED
	Y	**89**		ug/L			199932	224900	1	Standard
	Kr	**83**		ug/L			55	38	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5836	0	KED
|	**Cd**	**111**	**0.074**	ug/L	0.013	17	1	17	15	KED
⌊	**Cd**	**114**	**0.077**	ug/L	0.013	17	1	41	16	KED
⌈>	**Tb**	**159**		ug/L			457409	503216	4	Standard
⌊	**Pb**	**208**	**3.582**	ug/L	0.144	4	92	149711	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0540-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:48:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46915	4	Standard
	Cl	**37**		ug/L			3318464	4029684	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	440839	0	Standard
|	**Cr**	**52**	**1.798**	ug/L	0.065	3	15747	48562	1	Standard
|	**Cr**	**53**	**2.240**	ug/L	0.023	1	81	4675	1	Standard
⌊	**Mn**	**55**	**2.963**	ug/L	0.008	0	555	75955	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	21408	1	KED
|	**Ni**	**60**	**0.714**	ug/L	0.029	4	13	697	2	KED
|	**Ni**	**62**	**0.618**	ug/L	0.044	7	8	106	5	KED
|	**Cu**	**63**	**5.598**	ug/L	0.102	1	28	15986	0	KED
|	**Cu**	**65**	**5.418**	ug/L	0.098	1	17	7646	2	KED
|	**Zn**	**66**	**63.085**	ug/L	0.539	0	33	23886	1	KED
|	**Zn**	**67**	**59.096**	ug/L	3.677	6	3	3817	4	KED
⌊	**As**	**75**	**0.369**	ug/L	0.025	6	5	76	5	KED
	Y	**89**		ug/L			199932	216759	2	Standard
	Kr	**83**		ug/L			55	47	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5856	4	KED
|	**Cd**	**111**	**0.055**	ug/L	0.018	33	1	13	29	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.012	27	1	24	26	KED
⌈>	**Tb**	**159**		ug/L			457409	496838	2	Standard
⌊	**Pb**	**208**	**0.929**	ug/L	0.016	1	92	38464	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0542-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:52:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	49286	2	Standard
	Cl	**37**		ug/L			3318464	5333242	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	439861	2	Standard
|	**Cr**	**52**	**1.950**	ug/L	0.041	2	15747	51102	1	Standard
|	**Cr**	**53**	**3.265**	ug/L	0.103	3	81	6758	1	Standard
⌊	**Mn**	**55**	**12.410**	ug/L	0.336	2	555	315353	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20670	1	KED
|	**Ni**	**60**	**1.364**	ug/L	0.023	1	13	1273	1	KED
|	**Ni**	**62**	**1.339**	ug/L	0.067	5	8	211	4	KED
|	**Cu**	**63**	**10.573**	ug/L	0.133	1	28	29136	2	KED
|	**Cu**	**65**	**10.670**	ug/L	0.129	1	17	14521	1	KED
|	**Zn**	**66**	**133.560**	ug/L	1.550	1	33	48786	0	KED
|	**Zn**	**67**	**123.167**	ug/L	4.343	3	3	7682	3	KED
⌊	**As**	**75**	**0.796**	ug/L	0.032	4	5	152	5	KED
	Y	**89**		ug/L			199932	211968	1	Standard
	Kr	**83**		ug/L			55	41	19	Standard
⌈>	**In-1**	**115**		ug/L			5415	5794	2	KED
|	**Cd**	**111**	**0.099**	ug/L	0.016	16	1	22	12	KED
⌊	**Cd**	**114**	**0.094**	ug/L	0.018	18	1	50	16	KED
⌈>	**Tb**	**159**		ug/L			457409	487729	5	Standard
⌊	**Pb**	**208**	**6.348**	ug/L	0.343	5	92	256922	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:57:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	43851	0	Standard
	Cl	37		ug/L			3318464	3700060	1	Standard
⌈>	Sc	45		ug/L			408513	416761	1	Standard
|	Cr	52	0.414	ug/L	0.031	7	15747	22932	1	Standard
|	Cr	53	0.604	ug/L	0.007	1	81	1251	1	Standard
⌊	Mn	55	5.422	ug/L	0.105	1	555	130903	1	Standard
⌈>	Ge	72		ug/L			19427	21262	0	KED
|	Ni	60	0.229	ug/L	0.031	13	13	232	13	KED
|	Ni	62	0.207	ug/L	0.097	46	8	41	37	KED
|	Cu	63	1.698	ug/L	0.016	0	28	4839	1	KED
|	Cu	65	1.709	ug/L	0.026	1	17	2409	2	KED
|	Zn	66	14.587	ug/L	0.267	1	33	5514	1	KED
|	Zn	67	12.104	ug/L	0.438	3	3	780	2	KED
⌊	As	75	0.183	ug/L	0.023	12	5	40	11	KED
	Y	89		ug/L			199932	205769	1	Standard
	Kr	83		ug/L			55	46	26	Standard
⌈>	In-1	115		ug/L			5415	5761	2	KED
|	Cd	111	0.098	ug/L	0.017	17	1	22	17	KED
⌊	Cd	114	0.112	ug/L	0.025	22	1	59	22	KED
⌈>	Tb	159		ug/L			457409	474819	3	Standard
⌊	Pb	208	4.591	ug/L	0.202	4	92	181072	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:01:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	42423	3	Standard
	Cl	**37**		ug/L			3318464	3617262	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	417780	0	Standard
|	**Cr**	**52**	**0.323**	ug/L	0.031	9	15747	21471	1	Standard
|	**Cr**	**53**	**0.436**	ug/L	0.020	4	81	928	3	Standard
⌊	**Mn**	**55**	**1.800**	ug/L	0.016	0	555	43955	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20962	1	KED
|	**Ni**	**60**	**0.100**	ug/L	0.017	16	13	107	14	KED
|	**Ni**	**62**	**0.100**	ug/L	0.040	40	8	24	24	KED
|	**Cu**	**63**	**0.621**	ug/L	0.022	3	28	1762	2	KED
|	**Cu**	**65**	**0.559**	ug/L	0.051	9	17	788	8	KED
|	**Zn**	**66**	**10.897**	ug/L	0.233	2	33	4069	0	KED
|	**Zn**	**67**	**9.377**	ug/L	0.287	3	3	596	2	KED
⌊	**As**	**75**	**0.184**	ug/L	0.005	2	5	39	3	KED
	Y	**89**		ug/L			199932	205922	0	Standard
	Kr	**83**		ug/L			55	38	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5856	2	KED
|	**Cd**	**111**	**0.035**	ug/L	0.009	24	1	9	17	KED
⌊	**Cd**	**114**	**0.032**	ug/L	0.020	62	1	18	54	KED
⌈>	**Tb**	**159**		ug/L			457409	470943	2	Standard
⌊	**Pb**	**208**	**1.244**	ug/L	0.030	2	92	48750	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:05:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40565	0	Standard
	Cl	**37**		ug/L			3318464	3655989	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	416430	2	Standard
|	**Cr**	**52**	**0.559**	ug/L	0.050	8	15747	25316	1	Standard
|	**Cr**	**53**	**0.678**	ug/L	0.034	4	81	1394	3	Standard
⌊	**Mn**	**55**	**5.240**	ug/L	0.099	1	555	126440	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21519	0	KED
|	**Ni**	**60**	**0.332**	ug/L	0.035	10	13	333	10	KED
|	**Ni**	**62**	**0.256**	ug/L	0.033	12	8	49	10	KED
|	**Cu**	**63**	**1.494**	ug/L	0.034	2	28	4311	2	KED
|	**Cu**	**65**	**1.489**	ug/L	0.065	4	17	2125	4	KED
|	**Zn**	**66**	**12.349**	ug/L	0.306	2	33	4730	2	KED
|	**Zn**	**67**	**11.283**	ug/L	0.427	3	3	736	3	KED
⌊	**As**	**75**	**0.157**	ug/L	0.026	16	5	35	14	KED
	Y	**89**		ug/L			199932	200972	1	Standard
	Kr	**83**		ug/L			55	36	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	6130	2	KED
|	**Cd**	**111**	**0.017**	ug/L	0.009	52	1	6	36	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.005	38	1	9	32	KED
⌈>	**Tb**	**159**		ug/L			457409	469615	5	Standard
⌊	**Pb**	**208**	**2.025**	ug/L	0.047	2	92	79080	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0545-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:10:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	38911	1	Standard
	Cl	**37**		ug/L			3318464	3496197	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	439207	1	Standard
|	**Cr**	**52**	**2.993**	ug/L	0.029	0	15747	69300	2	Standard
|	**Cr**	**53**	**3.177**	ug/L	0.105	3	81	6570	2	Standard
⌊	**Mn**	**55**	**50.355**	ug/L	1.701	3	555	1275969	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21059	1	KED
|	**Ni**	**60**	**3.909**	ug/L	0.102	2	13	3691	1	KED
|	**Ni**	**62**	**3.952**	ug/L	0.096	2	8	618	1	KED
|	**Cu**	**63**	**111.264**	ug/L	3.415	3	28	311963	1	KED
|	**Cu**	**65**	**112.206**	ug/L	3.498	3	17	155363	1	KED
|	**Zn**	**66**	**85.157**	ug/L	2.201	2	33	31703	1	KED
|	**Zn**	**67**	**75.845**	ug/L	0.627	0	3	4821	1	KED
⌊	**As**	**75**	**0.921**	ug/L	0.038	4	5	178	3	KED
	Y	**89**		ug/L			199932	230715	1	Standard
	Kr	**83**		ug/L			55	50	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5835	2	KED
|	**Cd**	**111**	**0.114**	ug/L	0.035	30	1	26	25	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.017	16	1	53	15	KED
⌈>	**Tb**	**159**		ug/L			457409	474970	4	Standard
⌊	**Pb**	**208**	**10.334**	ug/L	0.248	2	92	407679	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0546-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:14:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	47491	2	Standard
	Cl	**37**		ug/L			3318464	3761871	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	435530	1	Standard
|	**Cr**	**52**	**0.359**	ug/L	0.009	2	15747	23021	1	Standard
|	**Cr**	**53**	**0.738**	ug/L	0.025	3	81	1581	4	Standard
⌊	**Mn**	**55**	**13.529**	ug/L	0.234	1	555	340575	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	21065	1	KED
|	**Ni**	**60**	**1.278**	ug/L	0.104	8	13	1216	7	KED
|	**Ni**	**62**	**1.140**	ug/L	0.028	2	8	184	1	KED
|	**Cu**	**63**	**6.402**	ug/L	0.170	2	28	17987	2	KED
|	**Cu**	**65**	**6.410**	ug/L	0.096	1	17	8896	1	KED
|	**Zn**	**66**	**213.261**	ug/L	2.813	1	33	79385	2	KED
|	**Zn**	**67**	**187.414**	ug/L	3.654	1	3	11914	3	KED
⌊	**As**	**75**	**0.315**	ug/L	0.038	11	5	64	12	KED
	Y	**89**		ug/L			199932	213847	3	Standard
	Kr	**83**		ug/L			55	40	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5934	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.004	7	1	13	7	KED
⌊	**Cd**	**114**	**0.059**	ug/L	0.016	26	1	32	23	KED
⌈>	**Tb**	**159**		ug/L			457409	487352	3	Standard
⌊	**Pb**	**208**	**0.254**	ug/L	0.009	3	92	10381	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0546-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:18:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	50965	1	Standard
	Cl	**37**		ug/L			3318464	3717283	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	482502	1	Standard
|	**Cr**	**52**	**0.524**	ug/L	0.016	3	15747	28665	1	Standard
|	**Cr**	**53**	**0.733**	ug/L	0.018	2	81	1740	2	Standard
⌊	**Mn**	**55**	**10.486**	ug/L	0.272	2	555	292470	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21934	1	KED
|	**Ni**	**60**	**0.705**	ug/L	0.077	10	13	704	9	KED
|	**Ni**	**62**	**0.641**	ug/L	0.026	4	8	112	4	KED
|	**Cu**	**63**	**8.029**	ug/L	0.155	1	28	23479	0	KED
|	**Cu**	**65**	**7.974**	ug/L	0.179	2	17	11519	1	KED
|	**Zn**	**66**	**141.640**	ug/L	1.393	0	33	54906	1	KED
|	**Zn**	**67**	**123.924**	ug/L	3.182	2	3	8203	3	KED
⌊	**As**	**75**	**0.600**	ug/L	0.042	7	5	123	5	KED
	Y	**89**		ug/L			199932	223391	3	Standard
	Kr	**83**		ug/L			55	46	21	Standard
⌈>	**In-1**	**115**		ug/L			5415	5799	2	KED
|	**Cd**	**111**	**0.090**	ug/L	0.015	16	1	20	13	KED
⌊	**Cd**	**114**	**0.099**	ug/L	0.023	23	1	52	21	KED
⌈>	**Tb**	**159**		ug/L			457409	503616	3	Standard
⌊	**Pb**	**208**	**1.647**	ug/L	0.029	1	92	69013	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0547-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:24:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	61706	1	Standard
	Cl	**37**		ug/L			3318464	9362251	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	444137	3	Standard
|	**Cr**	**52**	**1.398**	ug/L	0.064	4	15747	41819	0	Standard
|	**Cr**	**53**	**4.986**	ug/L	0.196	3	81	10369	0	Standard
⌊	**Mn**	**55**	**2.608**	ug/L	0.141	5	555	67358	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	19551	1	KED
|	**Ni**	**60**	**3.834**	ug/L	0.047	1	13	3361	1	KED
|	**Ni**	**62**	**4.014**	ug/L	0.292	7	8	582	6	KED
|	**Cu**	**63**	**70.251**	ug/L	2.226	3	28	182861	1	KED
|	**Cu**	**65**	**71.953**	ug/L	1.881	2	17	92499	0	KED
|	**Zn**	**66**	**488.968**	ug/L	3.227	0	33	168857	1	KED
|	**Zn**	**67**	**433.856**	ug/L	7.914	1	3	25587	2	KED
⌊	**As**	**75**	**1.428**	ug/L	0.102	7	5	253	5	KED
	Y	**89**		ug/L			199932	211673	1	Standard
	Kr	**83**		ug/L			55	57	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5528	0	KED
|	**Cd**	**111**	**0.759**	ug/L	0.037	4	1	153	4	KED
⌊	**Cd**	**114**	**0.784**	ug/L	0.047	6	1	383	6	KED
⌈>	**Tb**	**159**		ug/L			457409	493334	3	Standard
⌊	**Pb**	**208**	**0.507**	ug/L	0.019	3	92	20847	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:32:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31794	5	Standard
	Cl	**37**		ug/L			3318464	3712270	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	425363	4	Standard
⎢	**Cr**	**52**	**51.087**	ug/L	0.419	0	15747	881752	3	Standard
⎢	**Cr**	**53**	**51.068**	ug/L	0.505	0	81	101022	4	Standard
⎣	**Mn**	**55**	**51.893**	ug/L	1.017	1	555	1273383	2	Standard
⎡>	**Ge**	**72**		ug/L			19427	20738	1	KED
⎢	**Ni**	**60**	**50.850**	ug/L	1.099	2	13	47115	0	KED
⎢	**Ni**	**62**	**50.492**	ug/L	1.292	2	8	7676	1	KED
⎢	**Cu**	**63**	**49.409**	ug/L	1.167	2	28	136462	2	KED
⎢	**Cu**	**65**	**49.846**	ug/L	1.107	2	17	67981	0	KED
⎢	**Zn**	**66**	**50.636**	ug/L	1.107	2	33	18577	0	KED
⎢	**Zn**	**67**	**50.325**	ug/L	1.843	3	3	3150	2	KED
⎣	**As**	**75**	**49.995**	ug/L	1.497	2	5	9242	1	KED
	Y	**89**		ug/L			199932	208978	5	Standard
	Kr	**83**		ug/L			55	56	7	Standard
⎡>	**In-1**	**115**		ug/L			5415	5699	1	KED
⎢	**Cd**	**111**	**49.602**	ug/L	1.197	2	1	10242	1	KED
⎣	**Cd**	**114**	**50.166**	ug/L	1.564	3	1	25164	3	KED
⎡>	**Tb**	**159**		ug/L			457409	485359	5	Standard
⎣	**Pb**	**208**	**52.206**	ug/L	2.038	3	92	2102625	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:39:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30209	3	Standard
	Cl	**37**		ug/L			3318464	3596592	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	403045	1	Standard
|	**Cr**	**52**	**0.029**	ug/L	0.008	26	15747	16008	1	Standard
|	**Cr**	**53**	**0.128**	ug/L	0.003	2	81	320	3	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	52	555	625	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	21913	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.002	38	13	9	20	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.019	177	8	7	43	KED
|	**Cu**	**63**	**0.010**	ug/L	0.003	31	28	62	16	KED
|	**Cu**	**65**	**0.006**	ug/L	0.002	32	17	27	7	KED
|	**Zn**	**66**	**0.062**	ug/L	0.039	62	33	61	21	KED
|	**Zn**	**67**	**0.071**	ug/L	0.113	159	3	8	81	KED
⌊	**As**	**75**	**0.002**	ug/L	0.013	746	5	6	40	KED
	Y	**89**		ug/L			199932	192600	2	Standard
	Kr	**83**		ug/L			55	52	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5970	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	238	1	1	69	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	125	1	1	112	KED
⌈>	**Tb**	**159**		ug/L			457409	456893	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	16	92	231	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0549-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:44:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	48055	0	Standard
	Cl	**37**		ug/L			3318464	3704542	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	438676	2	Standard
|	**Cr**	**52**	**0.848**	ug/L	0.037	4	15747	31725	3	Standard
|	**Cr**	**53**	**0.882**	ug/L	0.022	2	81	1885	4	Standard
⌊	**Mn**	**55**	**9.261**	ug/L	0.077	0	555	234950	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20753	1	KED
|	**Ni**	**60**	**0.527**	ug/L	0.021	4	13	502	3	KED
|	**Ni**	**62**	**0.474**	ug/L	0.098	20	8	80	16	KED
|	**Cu**	**63**	**3.779**	ug/L	0.027	0	28	10474	1	KED
|	**Cu**	**65**	**3.721**	ug/L	0.081	2	17	5094	1	KED
|	**Zn**	**66**	**188.434**	ug/L	2.218	1	33	69096	1	KED
|	**Zn**	**67**	**168.431**	ug/L	1.290	0	3	10547	1	KED
⌊	**As**	**75**	**0.184**	ug/L	0.018	9	5	39	7	KED
	Y	**89**		ug/L			199932	218062	2	Standard
	Kr	**83**		ug/L			55	59	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5739	4	KED
|	**Cd**	**111**	**0.064**	ug/L	0.018	29	1	15	25	KED
⌊	**Cd**	**114**	**0.044**	ug/L	0.019	41	1	24	42	KED
⌈>	**Tb**	**159**		ug/L			457409	490148	3	Standard
⌊	**Pb**	**208**	**3.069**	ug/L	0.058	1	92	125048	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0549-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:48:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43657	0	Standard
	Cl	**37**		ug/L			3318464	3658474	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	422079	0	Standard
|	**Cr**	**52**	**1.009**	ug/L	0.012	1	15747	33228	0	Standard
|	**Cr**	**53**	**1.017**	ug/L	0.028	2	81	2078	2	Standard
⌊	**Mn**	**55**	**5.766**	ug/L	0.126	2	555	140969	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20820	1	KED
|	**Ni**	**60**	**0.448**	ug/L	0.012	2	13	431	3	KED
|	**Ni**	**62**	**0.379**	ug/L	0.028	7	8	66	4	KED
|	**Cu**	**63**	**3.316**	ug/L	0.038	1	28	9223	0	KED
|	**Cu**	**65**	**3.327**	ug/L	0.104	3	17	4574	3	KED
|	**Zn**	**66**	**167.344**	ug/L	3.320	1	33	61575	3	KED
|	**Zn**	**67**	**148.651**	ug/L	4.591	3	3	9337	2	KED
⌊	**As**	**75**	**0.150**	ug/L	0.021	14	5	33	13	KED
	Y	**89**		ug/L			199932	207357	2	Standard
	Kr	**83**		ug/L			55	36	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	5774	4	KED
|	**Cd**	**111**	**0.046**	ug/L	0.025	55	1	11	41	KED
⌊	**Cd**	**114**	**0.039**	ug/L	0.010	27	1	21	22	KED
⌈>	**Tb**	**159**		ug/L			457409	474673	2	Standard
⌊	**Pb**	**208**	**1.989**	ug/L	0.047	2	92	78518	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0550-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:52:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40883	3	Standard
	Cl	**37**		ug/L			3318464	3612005	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	453549	3	Standard
|	**Cr**	**52**	**0.188**	ug/L	0.036	19	15747	20862	0	Standard
|	**Cr**	**53**	**0.284**	ug/L	0.020	7	81	689	7	Standard
⌊	**Mn**	**55**	**3.705**	ug/L	0.107	2	555	97489	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21244	4	KED
|	**Ni**	**60**	**0.315**	ug/L	0.034	10	13	312	7	KED
|	**Ni**	**62**	**0.253**	ug/L	0.065	25	8	48	20	KED
|	**Cu**	**63**	**2.226**	ug/L	0.073	3	28	6323	3	KED
|	**Cu**	**65**	**2.248**	ug/L	0.119	5	17	3155	1	KED
|	**Zn**	**66**	**31.792**	ug/L	0.338	1	33	11968	5	KED
|	**Zn**	**67**	**27.264**	ug/L	1.079	3	3	1752	7	KED
⌊	**As**	**75**	**0.102**	ug/L	0.013	13	5	24	6	KED
	Y	**89**		ug/L			199932	218574	2	Standard
	Kr	**83**		ug/L			55	46	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	6221	4	KED
|	**Cd**	**111**	**0.013**	ug/L	0.005	38	1	5	21	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.005	69	1	6	44	KED
⌈>	**Tb**	**159**		ug/L			457409	499761	5	Standard
⌊	**Pb**	**208**	**1.312**	ug/L	0.060	4	92	54495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0551-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:57:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	48956	1	Standard
	Cl	**37**		ug/L			3318464	3670526	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	457755	1	Standard
|	**Cr**	**52**	**0.579**	ug/L	0.029	4	15747	28204	1	Standard
|	**Cr**	**53**	**0.753**	ug/L	0.013	1	81	1691	0	Standard
⌊	**Mn**	**55**	**8.170**	ug/L	0.125	1	555	216381	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21408	0	KED
|	**Ni**	**60**	**0.531**	ug/L	0.016	2	13	522	3	KED
|	**Ni**	**62**	**0.512**	ug/L	0.114	22	8	89	20	KED
|	**Cu**	**63**	**5.284**	ug/L	0.208	3	28	15094	4	KED
|	**Cu**	**65**	**5.326**	ug/L	0.048	0	17	7516	0	KED
|	**Zn**	**66**	**47.155**	ug/L	0.820	1	33	17864	1	KED
|	**Zn**	**67**	**41.932**	ug/L	0.491	1	3	2712	1	KED
⌊	**As**	**75**	**0.392**	ug/L	0.012	2	5	80	2	KED
	Y	**89**		ug/L			199932	214863	1	Standard
	Kr	**83**		ug/L			55	45	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	5966	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.017	32	1	13	28	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.016	48	1	19	44	KED
⌈>	**Tb**	**159**		ug/L			457409	484836	4	Standard
⌊	**Pb**	**208**	**0.777**	ug/L	0.036	4	92	31375	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0552-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:01:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	39475	2	Standard
	Cl	**37**		ug/L			3318464	3612996	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	426365	1	Standard
|	**Cr**	**52**	**0.835**	ug/L	0.036	4	15747	30608	0	Standard
|	**Cr**	**53**	**0.926**	ug/L	0.036	3	81	1918	1	Standard
⌊	**Mn**	**55**	**14.974**	ug/L	0.375	2	555	368797	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21161	2	KED
|	**Ni**	**60**	**0.644**	ug/L	0.031	4	13	622	3	KED
|	**Ni**	**62**	**0.566**	ug/L	0.087	15	8	96	11	KED
|	**Cu**	**63**	**2.848**	ug/L	0.120	4	28	8052	1	KED
|	**Cu**	**65**	**2.912**	ug/L	0.087	2	17	4068	1	KED
|	**Zn**	**66**	**100.665**	ug/L	3.149	3	33	37638	0	KED
|	**Zn**	**67**	**88.356**	ug/L	4.563	5	3	5639	3	KED
⌊	**As**	**75**	**0.185**	ug/L	0.033	17	5	40	17	KED
	Y	**89**		ug/L			199932	211332	1	Standard
	Kr	**83**		ug/L			55	39	10	Standard
⌈>	**In-1**	**115**		ug/L			5415	5813	2	KED
|	**Cd**	**111**	**0.039**	ug/L	0.012	32	1	10	23	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.000	1	1	16	3	KED
⌈>	**Tb**	**159**		ug/L			457409	480481	4	Standard
⌊	**Pb**	**208**	**1.376**	ug/L	0.051	3	92	54960	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0553-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:05:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46289	2	Standard
	Cl	**37**		ug/L			3318464	3604765	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	431442	4	Standard
|	**Cr**	**52**	**0.351**	ug/L	0.033	9	15747	22652	2	Standard
|	**Cr**	**53**	**0.326**	ug/L	0.004	1	81	739	4	Standard
⌊	**Mn**	**55**	**3.398**	ug/L	0.051	1	555	85136	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	20824	1	KED
|	**Ni**	**60**	**0.288**	ug/L	0.042	14	13	282	14	KED
|	**Ni**	**62**	**0.208**	ug/L	0.058	27	8	40	21	KED
|	**Cu**	**63**	**1.501**	ug/L	0.033	2	28	4192	1	KED
|	**Cu**	**65**	**1.475**	ug/L	0.078	5	17	2038	5	KED
|	**Zn**	**66**	**72.333**	ug/L	1.028	1	33	26636	1	KED
|	**Zn**	**67**	**64.667**	ug/L	1.018	1	3	4065	0	KED
⌊	**As**	**75**	**0.156**	ug/L	0.007	4	5	34	4	KED
	Y	**89**		ug/L			199932	210937	3	Standard
	Kr	**83**		ug/L			55	55	20	Standard
⌈>	**In-1**	**115**		ug/L			5415	6126	1	KED
|	**Cd**	**111**	**0.019**	ug/L	0.005	26	1	6	17	KED
⌊	**Cd**	**114**	**0.025**	ug/L	0.007	26	1	15	24	KED
⌈>	**Tb**	**159**		ug/L			457409	483078	6	Standard
⌊	**Pb**	**208**	**0.320**	ug/L	0.013	3	92	12936	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0554-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:10:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	49934	1	Standard
	Cl	**37**		ug/L			3318464	3799721	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	432185	2	Standard
|	**Cr**	**52**	**1.215**	ug/L	0.011	0	15747	37569	2	Standard
|	**Cr**	**53**	**1.492**	ug/L	0.032	2	81	3081	1	Standard
⌊	**Mn**	**55**	**64.166**	ug/L	0.454	0	555	1600218	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20626	2	KED
|	**Ni**	**60**	**33.597**	ug/L	0.744	2	13	30963	0	KED
|	**Ni**	**62**	**33.669**	ug/L	1.644	4	8	5092	2	KED
|	**Cu**	**63**	**67.036**	ug/L	2.008	2	28	184076	0	KED
|	**Cu**	**65**	**68.135**	ug/L	1.385	2	17	92419	1	KED
|	**Zn**	**66**	**24.753**	ug/L	0.855	3	33	9048	1	KED
|	**Zn**	**67**	**23.377**	ug/L	1.425	6	3	1457	4	KED
⌊	**As**	**75**	**0.502**	ug/L	0.062	12	5	97	12	KED
	Y	**89**		ug/L			199932	207457	2	Standard
	Kr	**83**		ug/L			55	46	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5885	0	KED
|	**Cd**	**111**	**0.296**	ug/L	0.049	16	1	65	15	KED
⌊	**Cd**	**114**	**0.311**	ug/L	0.000	0	1	163	0	KED
⌈>	**Tb**	**159**		ug/L			457409	471305	3	Standard
⌊	**Pb**	**208**	**8.164**	ug/L	0.264	3	92	319597	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0554-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:14:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	52582	0	Standard
	Cl	37		ug/L			3318464	3867292	1	Standard
>	Sc	45		ug/L			408513	421927	0	Standard
	Cr	52	0.693	ug/L	0.036	5	15747	27915	2	Standard
	Cr	53	1.351	ug/L	0.019	1	81	2732	1	Standard
	Mn	55	1.707	ug/L	0.006	0	555	42111	0	Standard
>	Ge	72		ug/L			19427	20767	0	KED
	Ni	60	4.146	ug/L	0.119	2	13	3860	2	KED
	Ni	62	3.982	ug/L	0.216	5	8	614	5	KED
	Cu	63	10.911	ug/L	0.310	2	28	30203	2	KED
	Cu	65	11.248	ug/L	0.323	2	17	15378	2	KED
	Zn	66	3.154	ug/L	0.147	4	33	1193	5	KED
	Zn	67	3.077	ug/L	0.337	10	3	196	10	KED
	As	75	0.191	ug/L	0.030	15	5	40	12	KED
	Y	89		ug/L			199932	205403	1	Standard
	Kr	83		ug/L			55	46	2	Standard
>	In-1	115		ug/L			5415	5667	2	KED
	Cd	111	0.023	ug/L	0.018	76	1	6	51	KED
	Cd	114	0.038	ug/L	0.012	32	1	20	28	KED
>	Tb	159		ug/L			457409	467988	4	Standard
	Pb	208	1.871	ug/L	0.054	2	92	72798	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0555-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:18:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	96660	1	Standard
	Cl	37		ug/L			3318464	3971335	2	Standard
⌈>	Sc	45		ug/L			408513	451429	1	Standard
|	Cr	52	1.150	ug/L	0.035	3	15747	38092	3	Standard
|	Cr	53	1.552	ug/L	0.047	2	81	3344	1	Standard
⌊	Mn	55	8.873	ug/L	0.064	0	555	231663	1	Standard
⌈>	Ge	72		ug/L			19427	20656	2	KED
|	Ni	60	0.913	ug/L	0.085	9	13	856	8	KED
|	Ni	62	0.927	ug/L	0.100	10	8	149	11	KED
|	Cu	63	6.054	ug/L	0.031	0	28	16682	1	KED
|	Cu	65	6.111	ug/L	0.056	0	17	8318	1	KED
|	Zn	66	75.267	ug/L	1.409	1	33	27485	0	KED
|	Zn	67	67.567	ug/L	1.891	2	3	4212	2	KED
⌊	As	75	0.291	ug/L	0.007	2	5	58	0	KED
	Y	89		ug/L			199932	223499	3	Standard
	Kr	83		ug/L			55	44	10	Standard
⌈>	In-1	115		ug/L			5415	5889	4	KED
|	Cd	111	0.312	ug/L	0.039	12	1	68	15	KED
⌊	Cd	114	0.291	ug/L	0.019	6	1	153	8	KED
⌈>	Tb	159		ug/L			457409	504449	3	Standard
⌊	Pb	208	1.158	ug/L	0.042	3	92	48617	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0556-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:24:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46977	1	Standard
	Cl	**37**		ug/L			3318464	3685710	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	431243	2	Standard
|	**Cr**	**52**	**0.594**	ug/L	0.039	6	15747	26807	0	Standard
|	**Cr**	**53**	**0.628**	ug/L	0.011	1	81	1343	2	Standard
⌊	**Mn**	**55**	**8.247**	ug/L	0.180	2	555	205701	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20826	3	KED
|	**Ni**	**60**	**0.449**	ug/L	0.032	7	13	432	7	KED
|	**Ni**	**62**	**0.390**	ug/L	0.111	28	8	68	26	KED
|	**Cu**	**63**	**3.462**	ug/L	0.052	1	28	9632	3	KED
|	**Cu**	**65**	**3.540**	ug/L	0.271	7	17	4860	5	KED
|	**Zn**	**66**	**27.728**	ug/L	0.943	3	33	10227	1	KED
|	**Zn**	**67**	**25.657**	ug/L	0.798	3	3	1616	6	KED
⌊	**As**	**75**	**0.995**	ug/L	0.084	8	5	190	9	KED
	Y	**89**		ug/L			199932	204874	1	Standard
	Kr	**83**		ug/L			55	46	6	Standard
⌈>	**In-1**	**115**		ug/L			5415	6070	2	KED
|	**Cd**	**111**	**0.093**	ug/L	0.007	7	1	22	4	KED
⌊	**Cd**	**114**	**0.097**	ug/L	0.009	9	1	53	6	KED
⌈>	**Tb**	**159**		ug/L			457409	472358	5	Standard
⌊	**Pb**	**208**	**0.518**	ug/L	0.020	3	92	20382	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVM
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:32:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32341	2	Standard
	Cl	**37**		ug/L			3318464	3720716	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	432297	0	Standard
|	**Cr**	**52**	**50.387**	ug/L	0.595	1	15747	884217	0	Standard
|	**Cr**	**53**	**50.590**	ug/L	0.950	1	81	101714	1	Standard
⌊	**Mn**	**55**	**51.878**	ug/L	0.507	0	555	1294415	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20405	2	KED
|	**Ni**	**60**	**51.402**	ug/L	1.519	2	13	46852	1	KED
|	**Ni**	**62**	**50.393**	ug/L	0.834	1	8	7539	1	KED
|	**Cu**	**63**	**50.650**	ug/L	1.654	3	28	137594	1	KED
|	**Cu**	**65**	**51.154**	ug/L	1.806	3	17	68635	2	KED
|	**Zn**	**66**	**52.407**	ug/L	1.052	2	33	18916	0	KED
|	**Zn**	**67**	**53.199**	ug/L	1.702	3	3	3277	2	KED
⌊	**As**	**75**	**50.923**	ug/L	1.316	2	5	9262	1	KED
	Y	**89**		ug/L			199932	212038	2	Standard
	Kr	**83**		ug/L			55	61	7	Standard
⌈>	**In-1**	**115**		ug/L			5415	5559	1	KED
|	**Cd**	**111**	**51.396**	ug/L	1.370	2	1	10352	2	KED
⌊	**Cd**	**114**	**52.425**	ug/L	0.541	1	1	25650	0	KED
⌈>	**Tb**	**159**		ug/L			457409	485110	3	Standard
⌊	**Pb**	**208**	**52.470**	ug/L	0.920	1	92	2114500	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBM
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:39:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30305	1	Standard
	Cl	**37**		ug/L			3318464	3488814	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	399208	3	Standard
|	**Cr**	**52**	**0.043**	ug/L	0.033	77	15747	16054	1	Standard
|	**Cr**	**53**	**0.055**	ug/L	0.020	35	81	181	24	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.002	82	555	585	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	20942	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.006	223	13	12	45	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.018	7708	8	8	32	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	38	28	53	16	KED
|	**Cu**	**65**	**0.012**	ug/L	0.006	48	17	35	24	KED
|	**Zn**	**66**	**0.086**	ug/L	0.017	19	33	67	9	KED
|	**Zn**	**67**	**0.205**	ug/L	0.103	50	3	17	40	KED
⌊	**As**	**75**	**0.008**	ug/L	0.002	28	5	6	3	KED
	Y	**89**		ug/L			199932	198604	2	Standard
	Kr	**83**		ug/L			55	46	9	Standard
⌈>	**In-1**	**115**		ug/L			5415	5528	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	216	1	1	114	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	415	1	2	92	KED
⌈>	**Tb**	**159**		ug/L			457409	453333	6	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	9	92	241	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:44:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	41751	2	Standard
	Cl	**37**		ug/L			3318464	3685451	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	494551	1	Standard
|	**Cr**	**52**	**0.037**	ug/L	0.016	43	15747	19786	0	Standard
|	**Cr**	**53**	**0.047**	ug/L	0.002	3	81	205	3	Standard
⌊	**Mn**	**55**	**0.035**	ug/L	0.003	7	555	1667	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	22437	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.005	2250	13	15	33	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.007	24	8	5	21	KED
|	**Cu**	**63**	**0.009**	ug/L	0.006	69	28	59	29	KED
|	**Cu**	**65**	**0.010**	ug/L	0.004	36	17	34	17	KED
|	**Zn**	**66**	**0.103**	ug/L	0.064	62	33	79	30	KED
|	**Zn**	**67**	**0.114**	ug/L	0.061	53	3	12	32	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.007	99	5	4	34	KED
	Y	**89**		ug/L			199932	231674	2	Standard
	Kr	**83**		ug/L			55	62	16	Standard
⌈>	**In-1**	**115**		ug/L			5415	6516	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.004	167	1	2	33	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	99	1	1	107	KED
⌈>	**Tb**	**159**		ug/L			457409	519465	4	Standard
⌊	**Pb**	**208**	**0.015**	ug/L	0.001	6	92	762	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:48:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40339	1	Standard
	Cl	**37**		ug/L			3318464	3620868	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	480278	1	Standard
|	**Cr**	**52**	**0.046**	ug/L	0.036	78	15747	19388	3	Standard
|	**Cr**	**53**	**0.036**	ug/L	0.008	22	81	176	9	Standard
⌊	**Mn**	**55**	**0.039**	ug/L	0.002	4	555	1738	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	22088	0	KED
|	**Ni**	**60**	**0.003**	ug/L	0.013	471	13	17	69	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.011	103	8	7	25	KED
|	**Cu**	**63**	**0.008**	ug/L	0.004	57	28	54	22	KED
|	**Cu**	**65**	**0.012**	ug/L	0.006	54	17	36	26	KED
|	**Zn**	**66**	**0.086**	ug/L	0.018	20	33	71	10	KED
|	**Zn**	**67**	**0.097**	ug/L	0.032	32	3	10	20	KED
⌊	**As**	**75**	**-0.013**	ug/L	0.005	37	5	3	31	KED
	Y	**89**		ug/L			199932	229084	2	Standard
	Kr	**83**		ug/L			55	60	23	Standard
⌈>	**In-1**	**115**		ug/L			5415	6421	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.009	643	1	1	100	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.004	100	1	4	48	KED
⌈>	**Tb**	**159**		ug/L			457409	507860	1	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	5	92	683	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:52:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40713	1	Standard
	Cl	**37**		ug/L			3318464	3552995	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	493899	3	Standard
⎢	**Cr**	**52**	**0.050**	ug/L	0.032	64	15747	20010	0	Standard
⎢	**Cr**	**53**	**0.027**	ug/L	0.003	12	81	159	8	Standard
⎣	**Mn**	**55**	**0.037**	ug/L	0.001	1	555	1731	3	Standard
⎡>	**Ge**	**72**		ug/L			19427	22242	1	KED
⎢	**Ni**	**60**	**0.001**	ug/L	0.009	694	13	16	53	KED
⎢	**Ni**	**62**	**-0.038**	ug/L	0.014	35	8	3	69	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.001	7	28	60	1	KED
⎢	**Cu**	**65**	**0.002**	ug/L	0.004	227	17	22	26	KED
⎢	**Zn**	**66**	**0.050**	ug/L	0.029	57	33	58	20	KED
⎢	**Zn**	**67**	**0.096**	ug/L	0.061	63	3	10	36	KED
⎣	**As**	**75**	**-0.009**	ug/L	0.001	14	5	4	6	KED
	Y	**89**		ug/L			199932	231256	2	Standard
	Kr	**83**		ug/L			55	48	34	Standard
⎡>	**In-1**	**115**		ug/L			5415	6375	2	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.002	81	1	1	34	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.003	351	1	1	114	KED
⎡>	**Tb**	**159**		ug/L			457409	521797	4	Standard
⎣	**Pb**	**208**	**0.014**	ug/L	0.002	11	92	690	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:57:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32105	0	Standard
	Cl	**37**		ug/L			3318464	3332714	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	417881	0	Standard
⎢	**Cr**	**52**	**-0.060**	ug/L	0.008	13	15747	15111	1	Standard
⎢	**Cr**	**53**	**0.026**	ug/L	0.001	5	81	134	2	Standard
⎣	**Mn**	**55**	**-0.011**	ug/L	0.001	5	555	296	4	Standard
⎡>	**Ge**	**72**		ug/L			19427	21293	0	KED
⎢	**Ni**	**60**	**-0.004**	ug/L	0.001	30	13	10	10	KED
⎢	**Ni**	**62**	**-0.038**	ug/L	0.007	18	8	3	34	KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.002	202	28	27	23	KED
⎢	**Cu**	**65**	**-0.003**	ug/L	0.004	135	17	14	37	KED
⎢	**Zn**	**66**	**-0.020**	ug/L	0.019	94	33	29	24	KED
⎢	**Zn**	**67**	**0.063**	ug/L	0.016	25	3	8	13	KED
⎣	**As**	**75**	**-0.009**	ug/L	0.006	69	5	3	33	KED
	Y	**89**		ug/L			199932	196948	2	Standard
	Kr	**83**		ug/L			55	52	33	Standard
⎡>	**In-1**	**115**		ug/L			5415	5849	3	KED
⎢	**Cd**	**111**	**0.004**	ug/L	0.008	205	1	2	57	KED
⎣	**Cd**	**114**	**0.006**	ug/L	0.004	69	1	4	43	KED
⎡>	**Tb**	**159**		ug/L			457409	459690	3	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	30	92	71	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 10:01:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30783	1	Standard
	Cl	**37**		ug/L			3318464	3362908	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	390990	3	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.041	1789	15747	15021	0	Standard
⎢	**Cr**	**53**	**0.034**	ug/L	0.005	15	81	140	6	Standard
⎣	**Mn**	**55**	**-0.011**	ug/L	0.001	7	555	287	5	Standard
⎡>	**Ge**	**72**		ug/L			19427	21419	1	KED
⎢	**Ni**	**60**	**-0.003**	ug/L	0.004	104	13	11	28	KED
⎢	**Ni**	**62**	**-0.030**	ug/L	0.025	85	8	4	89	KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.001	164	28	29	13	KED
⎢	**Cu**	**65**	**-0.005**	ug/L	0.001	17	17	12	9	KED
⎢	**Zn**	**66**	**-0.012**	ug/L	0.001	7	33	32	0	KED
⎢	**Zn**	**67**	**0.033**	ug/L	0.046	136	3	6	45	KED
⎣	**As**	**75**	**-0.008**	ug/L	0.007	86	5	3	34	KED
	Y	**89**		ug/L			199932	190097	1	Standard
	Kr	**83**		ug/L			55	41	14	Standard
⎡>	**In-1**	**115**		ug/L			5415	5938	3	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.004	114	1	2	33	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.002	139	1	1	93	KED
⎡>	**Tb**	**159**		ug/L			457409	443814	6	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	17	92	50	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 10:05:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30788	2	Standard
	Cl	**37**		ug/L			3318464	3338058	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	390633	1	Standard
|	**Cr**	**52**	**-0.027**	ug/L	0.014	52	15747	14630	0	Standard
|	**Cr**	**53**	**0.027**	ug/L	0.007	26	81	127	10	Standard
⌊	**Mn**	**55**	**-0.011**	ug/L	0.001	9	555	274	8	Standard
⌈>	**Ge**	**72**		ug/L			19427	20550	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.005	84	13	8	58	KED
|	**Ni**	**62**	**-0.028**	ug/L	0.029	103	8	4	98	KED
|	**Cu**	**63**	**0.000**	ug/L	0.002	627	28	31	18	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.003	41	17	9	40	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.010	46	33	27	10	KED
|	**Zn**	**67**	**0.007**	ug/L	0.018	268	3	4	24	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.005	79	5	4	22	KED
	Y	**89**		ug/L			199932	187294	5	Standard
	Kr	**83**		ug/L			55	36	14	Standard
⌈>	**In-1**	**115**		ug/L			5415	5409	3	KED
|	**Cd**	**111**	**0.006**	ug/L	0.003	40	1	3	17	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.004	103	1	3	52	KED
⌈>	**Tb**	**159**		ug/L			457409	440470	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	12	92	58	9	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00024	Instrument:	ICPMS2
Calibration Date:	01/09/2023 14:07		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Chromium-53	0	0	0.5	2446	10	2275	20	2209.95	50	2135.48	100	2174.53

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00024	Instrument:	ICPMS2
Calibration Date:	01/09/2023 14:07		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Chromium-53	1873.493	49.3	0.9999		0.998	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** SLAΦΦ97 **Cal:** GAΦΦΦ24

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	LΦ293		
		-CAL2	LΦ149		
		-CAL3	LΦ15Φ		
		-CAL4	LΦ151		
		-CAL5	LΦ294		
		-CAL6	LΦ153		
		-IBL1	—		
		-ICV1	LΦ243		
		-ICB1	LΦ293		
		-CCV1	LΦ294		
		-CCB1	LΦ293		
		-CRL1	LΦ149		
		-IFA1	K11871		Cr53?
		-IFB1	K11683		
		-HCV1	LΦ232		
		-HCV2	LΦ233		
		-IBL2	—		
		-CCV2			
		-CCB2			
		BKLΦ6Φ8-BLK1	SWN	20	
		-BS1			
		BKLΦΦ8Φ-BLK2			Pb only
		-BS2			
		22LΦ454-13	REN		Cu only

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22L0454-14	REN	5	Cu only
		↓ -02	↓	10	↓
		22L0475-01	↓	↓	Zn only
		22L0476-01	↓	↓	↓
		SEQ-IBL3			
		-CCV3			
		↓ -CCB3			
		BLA0187-BLK1	REN		
		↓ -BS1	↓		
197→192		BLA0197-BLK1			
↓		↓ -BS1			
		23A0066-01RE1		5	Mn only
		23A0137-01		↓	
		23A0116-01		2	
		22L0199-43	SWN	20	Sc↑ - Not Needed
		↓ -44	↓	↓	↓ ↓
		SEQ-IBL4			
		-CCV4			
		↓ -CCB4			
		BLA0157-BLK1	REN		(Mn = ½RL) No Mn
		↓ -BS1	↓		↓
		23A0004-01		2	
		-02		↓	
		↓ -03	↓		

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦΦΦ4-Φ4	REN	2	
		22LΦ199-45	SWN	20	Sc↑ - Not Needed
		-46	↓	↓	
		-47	↓	↓	
		SEQ-IBL5			
		-CCV5			
		-CCB5			
	✓	BLAΦ157-BLK1	REN		Wrong sample run
		BLAΦ194-BLK1	↓		
		-BS1	↓		
		22LΦ329-Φ8	SWN	20	
		-Φ9	↓	↓	Sc↑ - Not Needed
		-1Φ	↓	↓	↓ ↓
		-11	↓	↓	↓ ↓
		-12	↓	↓	
		-13	↓	↓	Sc↑ - Not Needed
		-14	↓	↓	↓ ↓
		SEQ-CCV6			
		-CCB6			
	✓	-CAL1			
		-CCV7			
		-CCB7			
		22LΦ329-Φ7	SWN	20	Sc↑ No Cr
		BKLΦ6Φ8-DUP1	↓	↓	↓ ↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ6Φ8-MS1	SWN	20	Sc↑ No Cr
		-MSD1	↓	↓	↓
		-PS1	↓	↓	60 mL K7409 ↓
		22HΦ525-Φ1	↓	↓	Not Needed
		-Φ2	↓	↓	↓
		-Φ3	↓	↓	Tb sl. noisy - %R + Analytes OK
		-Φ4	↓	↓	↓
		-Φ5	↓	↓	↓
		SEQ-CCV8			
		↓ -CCB8			
		BKLΦΦΦ6-SRL2	SWN	250	Zn only
		22IΦΦ52-25	↓	50	↓
		BKLΦΦΦ6-DUP2	↓	↓	↓
		-MS2	↓	↓	Sc↑ Not Needed / Zn %R↑
		-MSD2	↓	↓	↓
		-PS2	↓	↓	60 mL K7409 ↓
		22HΦ525-1Φ	↓	20	Sc↑ Not Needed
		-11	↓	↓	↓ ↓
		-12	↓	↓	↓ ↓
		-13	↓	↓	↓ ↓
		SEQ-CCV9			
		↓ -CCB9			
		BKLΦΦ35-SRL2	SWN	250	Zn only
		22IΦ188-Φ2	↓	50	↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦΦ35-DUP2	SWN	50	Zn only
		-MS2			Zn %R↑
		-MSD2			
		-PS2			60mL K7409
		22HΦ525-14		20	Sc↑ - Not Needed
		-1519			
		-2Φ			
		-21			
		SEQ-CCVA			
		-CCBA			
		22LΦ516-Φ1	REN	10	Zn↑/Sc,Tb noisy — Cd,Co,Ni only
		SEQ-IBL6			
		BKLΦΦ8Φ-SRL2	SWN	250	Pb,Zn only
		22IΦ188-2Φ		50	
		BKLΦΦ8Φ-DUP2			
		-MS2			
		-MSD2			Zn %R↑
		-PS2			60mL K7409
		-SRM2		100	Pb only
		SEQ-IBL7			
		-CCVB			
		-CCBB			
		BKLΦ683-SRL2	SWN	250	Zn only
		22JΦΦ97-31		50	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ683-DUP2	SWN	50	Zn only
		-MS2			
		-MSD2			
		-PS2			60.ul K7409
		22HΦ525-22		20	Sc↑ - Not Needed
		-23			
		-24			
		-31			
		SEQ-CCVC			Ni 62 sl. noisy - Not Needed
		-CCBC			
	✓	-CAL1			
		-CCVD			
		-CCBD			
		22HΦ525-32	SWN	20	Sc↑ - Not Needed
		-33			Jb noisy No Pb
		-34			
		-35			
		-36			
		-38			
		-39			
		22HΦ529-Φ2			
		-12			
		-13			
		SEQ-CCVE			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBE			
		22HΦ529-14	SWN	20	Sc↑ - Not Needed
		-15			
		-16			Cu↑ Zn almost↑ No Cu, Zn
		-17			
		-18			
		-22			
		-23			
		-24			
		-25			
		-26			
		SEQ-CCVF			
		↓ -CCBF			
		22HΦ529-3Φ	SWN	20	Sc↑ - Not Needed / Cu, Zn↑ No Cu, Zn
		-31			
		-32			
		-33			Sc↑ - Not Needed
		22IΦΦ52-Φ1			
		-Φ2			
		-Φ3			
		-Φ5			
		-Φ6			
		-11			
		SEQ-CCVG			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBG			
		22LΦ428-ΦIRE1	REN		Cu only
		23AΦΦΦ9-Φ4			
		-Φ6			
		-Φ8			
		-1Φ			
		-12			
		-Φ2			
		BLAΦ194-DUP1			
		-MS1			
		22IΦΦS2-13	SWN	20	Scl - Not Needed
		SEQ-CCVH			
		-CCBH			
	✓	-CAL1			
		-CCVI			
		-CCBI			
		23AΦΦΦ9-Φ1	REN		
		-Φ3			
		-Φ5			
		-Φ7			
		-Φ9			
		-11			
		22LΦ612-Φ1			
		~~BKL~~ MB 1/9/23			

Analytical Resources, Incorporated
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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLAΦ157-DUP1	REN		
		↓ -MS1	↓		Mn STL
		SEQ-IBL8			(Sc, Tb sl. noisy)
		↓ -CCVJ			
		↓ -CCBJ			
		23AΦΦ1Φ-Φ1	REN		
		23AΦΦ13-Φ1	↓	2	
		23AΦΦ16-Φ1		5	Zn ND No Zn
		↓ -Φ2			Zn↑ No Zn
		22LΦ522-Φ1		2	
		22LΦ536-Φ2			Zn↑ No Zn
		↓ -Φ1			↓ ↓
	✓	BLAΦ187-DUP1			Wrong QC Source
	✓	↓ -MS1	↓		↓
		SEQ-IBL9			(Cr53↑)
		↓ -CCVK			
		↓ -CCBK			
		22LΦ523-Φ1	REN		
		22LΦ54Φ-Φ1	↓		
		22LΦ542-Φ1			
		22LΦ543-Φ1			
		↓ -Φ2			
		↓ -Φ3		2	
		22LΦ545-Φ1	↓	↓	

Analytical Resources, Incorporated
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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ546-Φ1	REN		
		↓ -Φ2	↓		
		22LΦ547-Φ1	↓		Zn↑ No Zn
		SEQ-CCVL			
		↓ -CCBL			
		22LΦ549-Φ1	REN		
		↓ -Φ2	↓		
		22LΦ55Φ-Φ1	↓	2	
		22LΦ551-Φ1	↓		
		22LΦ552-Φ1	↓	2	
		22LΦ553-Φ1	↓		
		22LΦ554-Φ1	↓		
		↓ -Φ2	↓		
		22LΦ555-Φ1	↓		
		22LΦ556-Φ1	↓		
		SEQ-CCVM			
		↓ -CCBM			Tb SL noisy - %R ΦAnalytes OK
		Rinse/DI			
			MB 1/9/23		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, January 09, 2023 12:54:15
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4860
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7877.3	7877.305	91.424	1.2	Standard
	In	114.9	64643.5	64643.462	238.075	0.4	Standard
	U	238.1	47383.8	47383.787	156.287	0.3	Standard
⌈	CeO	155.9	932.5	0.015	0.000	2.9	Standard
| >	Ce	139.9	62250.8	62250.803	118.292	0.2	Standard
⌊	Ce++	70.0	1513.6	0.024	0.000	2.0	Standard
	Bkgd	220.0	0.3	0.267	0.224	83.9	Standard

Current Conditions File Data

Current Value	Description
1.03	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.03	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/9/2023 12:54:12 PM
End Time: 1/9/2023 1:04:05 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 7877.30
Obtained Intensity (In 115): 64643.46
Obtained Intensity (U 238): 47383.79
Obtained Intensity (Bkgd 220): 0.27
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1513.61 / 62250.80)
Obtained Formula (CeO 156 / Ce 140): 0.015 (=932.50 / 62250.80)
Obtained RSD (Be 9): 0.0116
Obtained RSD (In 115): 0.0037
Obtained RSD (U 238): 0.0033

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
-0.18 mm	-0.18 mm	63018.69

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.03
Obtained Intensity (In 115): 63716.78
Obtained Formula (CeO 156 / Ce 140): 0.0186 (=1036.04 / 55570.87)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.701)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.704)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.91

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.98

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/9/2023 12:54:12 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 7877.30
		Obtained Intensity (In 115): 64643.46
		Obtained Intensity (U 238): 47383.79
		Obtained Intensity (Bkgd 220): 0.27
		Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1513.61 / 62250.80)
		Obtained Formula (CeO 156 / Ce 140): 0.015 (=932.50 / 62250.80)
		Obtained RSD (Be 9): 0.0116
		Obtained RSD (In 115): 0.0037
		Obtained RSD (U 238): 0.0033

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	-0.18 mm	-0.18 mm	63018.69

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 1/1.1/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 63716.78
		Obtained Formula (CeO 156 / Ce 140): 0.0186 (=1036.04 / 55570.87)
[Passed] Optimum value(s): 1.03

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.701)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.704)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.91

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	35977.2
Mg	24	41	-12.5	38259.2
In	115	41	-10	69818.2
Ce	140	41	-8	65670.6
Pb	208	41	-7	31510.7
U	238	41	-7	53463.9

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.98

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	26320.2
Mg	24	41	-12.5	22105.1
In	115	41	-11	41058.9
Ce	140	41	-8.5	49850.8
Pb	208	41	-6	26324.2
U	238	41	-6.5	39065.3

End Time: 1/9/2023 1:04:05 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, January 09, 2023 13:08:10
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4868
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	8379.1	8379.057	171.401	2.0	Standard
	In	114.9	68481.0	68481.031	817.063	1.2	Standard
	U	238.1	52863.0	52863.045	803.864	1.5	Standard
⌈	CeO	155.9	1122.3	0.018	0.001	5.9	Standard
| >	Ce	139.9	62978.9	62978.856	462.492	0.7	Standard
⌊	Ce++	70.0	1527.0	0.024	0.001	3.5	Standard
	Bkgd	220.0	0.0	0.033	0.075	223.6	Standard

Current Conditions File Data

Current Value	Description
1.03	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.03	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/9/2023 1:04:32 PM
End Time: 1/9/2023 1:10:14 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.993; Intercept = -13.78

KED Mode QID - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -12.94

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 8379.06
Obtained Intensity (In 115): 68481.03
Obtained Intensity (U 238): 52863.04
Obtained Intensity (Bkgd 220): 0.03
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1527.02 / 62978.86)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1122.31 / 62978.86)
Obtained RSD (Be 9): 0.0205
Obtained RSD (In 115): 0.0119
Obtained RSD (U 238): 0.0152

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/9/2023 1:04:32 PM

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.993; Intercept = -13.78

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13.5	35909.1
Mg	24	41	-12.5	35175.3
In	115	41	-9.5	69677.5
Ce	140	41	-8	64091.4
Pb	208	41	-7	32328.5
U	238	41	-7	53078.4

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -12.94

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	26997.5
Mg	24	41	-13	23399.1
In	115	41	-9.5	41203.3
Ce	140	41	-8.5	49706.3
Pb	208	41	-6	25041.9
U	238	41	-5.5	39177.6

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.

Intensity Criterion: Be 9 > 2000

Intensity Criterion: In 115 > 40000

Intensity Criterion: U 238 > 30000

Intensity Criterion: Bkgd 220 <= 1

Formula Criterion: Ce++ 70 / Ce 140 <= 0.03

Formula Criterion: CeO 156 / Ce 140 <= 0.025

RSD Criterion: Be 9.0122 < 0.05

RSD Criterion: In 114.904 < 0.05

RSD Criterion: U 238.05 < 0.05

```
        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 8379.06
                Obtained Intensity (In 115): 68481.03
                Obtained Intensity (U 238): 52863.04
                Obtained Intensity (Bkgd 220): 0.03
                Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1527.02 / 62978.86)
                Obtained Formula (CeO 156 / Ce 140): 0.018 (=1122.31 / 62978.86)
                Obtained RSD (Be 9): 0.0205
                Obtained RSD (In 115): 0.0119
                Obtained RSD (U 238): 0.0152

[Passed]  Optimum value(s): N/A

End Time: 1/9/2023 1:10:14 PM
```

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:07:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				34196	4	Standard
	Cl	**37**		ug/L				3578521	0	Standard
⎡>	**Sc**	**45**		ug/L				476701	2	Standard
⎢	**Cr**	**52**		ug/L				18596	1	Standard
⎢	**Cr**	**53**		ug/L				133	1	Standard
⎣	**Mn**	**55**		ug/L				801	3	Standard
⎡>	**Ge**	**72**		ug/L				24444	3	KED
⎢	**Ni**	**60**		ug/L				86	11	KED
⎢	**Ni**	**62**		ug/L				16	33	KED
⎢	**Cu**	**63**		ug/L				67	30	KED
⎢	**Cu**	**65**		ug/L				42	18	KED
⎢	**Zn**	**66**		ug/L				67	9	KED
⎢	**Zn**	**67**		ug/L				11	16	KED
⎣	**As**	**75**		ug/L				6	31	KED
	Y	**89**		ug/L				230853	2	Standard
	Kr	**83**		ug/L				65	12	Standard
⎡>	**In-1**	**115**		ug/L				6387	3	KED
⎢	**Cd**	**111**		ug/L				5	39	KED
⎣	**Cd**	**114**		ug/L				2	124	KED
⎡>	**Tb**	**159**		ug/L				540555	4	Standard
⎣	**Pb**	**208**		ug/L				256	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:11:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38817	4	Standard
	Cl	**37**		ug/L			3578521	3519195	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	468423	2	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.019	3	18596	28651	2	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.029	5	133	1223	3	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.014	2	801	14624	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	25182	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.049	9	86	570	9	KED
|	**Ni**	**62**	**0.500**	ug/L	0.083	16	16	80	13	KED
|	**Cu**	**63**	**0.500**	ug/L	0.007	1	67	1772	0	KED
|	**Cu**	**65**	**0.500**	ug/L	0.033	6	42	893	6	KED
|	**Zn**	**66**	**6.000**	ug/L	0.046	0	67	2886	1	KED
|	**Zn**	**67**	**6.000**	ug/L	0.125	2	11	431	2	KED
⌊	**As**	**75**	**0.200**	ug/L	0.030	15	6	53	13	KED
	Y	**89**		ug/L			230853	226304	1	Standard
	Kr	**83**		ug/L			65	56	21	Standard
⌈>	**In-1**	**115**		ug/L			6387	6656	0	KED
|	**Cd**	**111**	**0.100**	ug/L	0.024	23	5	28	19	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.012	12	2	67	11	KED
⌈>	**Tb**	**159**		ug/L			540555	542831	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.004	4	256	4784	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:15:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40740	1	Standard
	Cl	**37**		ug/L			3578521	3494818	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	484571	1	Standard
|	**Cr**	**52**	**9.997**	ug/L	0.321	3	18596	213767	1	Standard
|	**Cr**	**53**	**10.000**	ug/L	0.185	1	133	22750	0	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.123	1	801	285680	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	24916	2	KED
|	**Ni**	**60**	**10.005**	ug/L	0.114	1	86	11813	1	KED
|	**Ni**	**62**	**10.008**	ug/L	0.089	0	16	1878	3	KED
|	**Cu**	**63**	**10.000**	ug/L	0.065	0	67	34340	1	KED
|	**Cu**	**65**	**10.000**	ug/L	0.127	1	42	16678	3	KED
|	**Zn**	**66**	**9.957**	ug/L	0.196	1	67	4640	3	KED
|	**Zn**	**67**	**10.390**	ug/L	0.697	6	11	817	6	KED
⌊	**As**	**75**	**10.000**	ug/L	0.279	2	6	2224	1	KED
	Y	**89**		ug/L			230853	234638	2	Standard
	Kr	**83**		ug/L			65	53	4	Standard
⌈>	**In-1**	**115**		ug/L			6387	6682	0	KED
|	**Cd**	**111**	**10.000**	ug/L	0.277	2	5	2504	2	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.078	0	2	5990	0	KED
⌈>	**Tb**	**159**		ug/L			540555	554130	2	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.377	3	256	471120	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:20:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40191	3	Standard
	Cl	**37**		ug/L			3578521	3565622	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	474697	0	Standard
⎢	**Cr**	**52**	**19.981**	ug/L	0.115	0	18596	398674	0	Standard
⎢	**Cr**	**53**	**19.978**	ug/L	0.466	2	133	44199	1	Standard
⎣	**Mn**	**55**	**20.053**	ug/L	0.173	0	801	566409	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	24027	1	KED
⎢	**Ni**	**60**	**19.894**	ug/L	0.131	0	86	22107	2	KED
⎢	**Ni**	**62**	**19.997**	ug/L	0.520	2	16	3600	1	KED
⎢	**Cu**	**63**	**19.840**	ug/L	0.073	0	67	63613	1	KED
⎢	**Cu**	**65**	**20.006**	ug/L	0.337	1	42	32170	1	KED
⎢	**Zn**	**66**	**20.047**	ug/L	0.483	2	67	9001	2	KED
⎢	**Zn**	**67**	**19.880**	ug/L	0.213	1	11	1472	2	KED
⎣	**As**	**75**	**19.980**	ug/L	0.259	1	6	4265	2	KED
	Y	**89**		ug/L			230853	228603	0	Standard
	Kr	**83**		ug/L			65	46	21	Standard
⎡>	**In-1**	**115**		ug/L			6387	6656	0	KED
⎢	**Cd**	**111**	**19.922**	ug/L	0.068	0	5	4888	0	KED
⎣	**Cd**	**114**	**20.022**	ug/L	0.697	3	2	11995	2	KED
⎡>	**Tb**	**159**		ug/L			540555	552228	3	Standard
⎣	**Pb**	**208**	**19.967**	ug/L	0.583	2	256	931044	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:25:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32467	1	Standard
	Cl	**37**		ug/L			3578521	3716177	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	460271	2	Standard
|	**Cr**	**52**	**50.013**	ug/L	0.707	1	18596	941666	1	Standard
|	**Cr**	**53**	**49.979**	ug/L	1.016	2	133	106774	0	Standard
⌊	**Mn**	**55**	**49.849**	ug/L	0.789	1	801	1343516	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	24452	2	KED
|	**Ni**	**60**	**49.596**	ug/L	1.137	2	86	53766	0	KED
|	**Ni**	**62**	**49.792**	ug/L	1.643	3	16	8911	1	KED
|	**Cu**	**63**	**49.904**	ug/L	1.627	3	67	161111	2	KED
|	**Cu**	**65**	**49.750**	ug/L	1.209	2	42	79340	0	KED
|	**Zn**	**66**	**49.629**	ug/L	1.262	2	67	21819	1	KED
|	**Zn**	**67**	**49.833**	ug/L	0.789	1	11	3681	3	KED
⌊	**As**	**75**	**49.840**	ug/L	1.170	2	6	10641	0	KED
	Y	**89**		ug/L			230853	227806	1	Standard
	Kr	**83**		ug/L			65	61	20	Standard
⌈>	**In-1**	**115**		ug/L			6387	6472	2	KED
|	**Cd**	**111**	**49.806**	ug/L	1.334	2	5	11645	0	KED
⌊	**Cd**	**114**	**49.760**	ug/L	1.337	2	2	28297	0	KED
⌈>	**Tb**	**159**		ug/L			540555	551403	3	Standard
⌊	**Pb**	**208**	**49.596**	ug/L	1.314	2	256	2219143	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:31:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38647	1	Standard
	Cl	**37**		ug/L			3578521	3776465	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	467709	4	Standard
⎢	**Cr**	**52**	**99.772**	ug/L	1.970	1	18596	1875966	2	Standard
⎢	**Cr**	**53**	**100.062**	ug/L	3.731	3	133	217453	2	Standard
⎣	**Mn**	**55**	**99.560**	ug/L	1.432	1	801	2686216	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23908	1	KED
⎢	**Ni**	**60**	**100.265**	ug/L	1.751	1	86	107154	0	KED
⎢	**Ni**	**62**	**100.063**	ug/L	2.075	2	16	17535	0	KED
⎢	**Cu**	**63**	**100.256**	ug/L	1.256	1	67	319195	0	KED
⎢	**Cu**	**65**	**100.250**	ug/L	2.886	2	42	157597	1	KED
⎢	**Zn**	**66**	**99.534**	ug/L	2.599	2	67	42077	0	KED
⎢	**Zn**	**67**	**100.044**	ug/L	3.822	3	11	7222	2	KED
⎣	**As**	**75**	**100.610**	ug/L	3.167	3	6	21432	1	KED
	Y	**89**		ug/L			230853	227537	4	Standard
	Kr	**83**		ug/L			65	95	3	Standard
⎡>	**In-1**	**115**		ug/L			6387	6490	1	KED
⎢	**Cd**	**111**	**100.087**	ug/L	1.769	1	5	23533	0	KED
⎣	**Cd**	**114**	**100.040**	ug/L	3.583	3	2	57119	1	KED
⎡>	**Tb**	**159**		ug/L			540555	552023	4	Standard
⎣	**Pb**	**208**	**100.690**	ug/L	2.955	2	256	4615322	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:38:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32272	2	Standard
	Cl	**37**		ug/L			3578521	3564314	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	456612	3	Standard
|	**Cr**	**52**	**0.033**	ug/L	0.021	64	18596	18403	1	Standard
|	**Cr**	**53**	**-0.007**	ug/L	0.002	35	133	113	7	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.000	33	801	744	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	24027	0	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.009	197	86	80	12	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.011	40	16	11	16	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	40	67	53	10	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.004	43	42	27	21	KED
|	**Zn**	**66**	**0.013**	ug/L	0.056	417	67	71	32	KED
|	**Zn**	**67**	**0.038**	ug/L	0.015	38	11	13	7	KED
⌊	**As**	**75**	**0.017**	ug/L	0.013	75	6	10	26	KED
	Y	**89**		ug/L			230853	220679	0	Standard
	Kr	**83**		ug/L			65	65	14	Standard
⌈>	**In-1**	**115**		ug/L			6387	6633	3	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.005	61	5	3	31	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	1234	2	2	39	KED
⌈>	**Tb**	**159**		ug/L			540555	536786	3	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	101	256	243	5	Standard

Sample Information

Sample Date/Time: Monday, January 09, 2023 14:31:44
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.040	0.50	10	20	50	100
Cr	53	**1.0000**	0.005	0.50	10	20	50	100
Mn	55	**1.0000**	0.058	0.50	10	20	50	100
Ge	72							
Ni	60	**0.9999**	0.045	0.50	10	20	50	100
Ni	62	**1.0000**	0.007	0.50	10	20	50	100
Cu	63	**1.0000**	0.133	0.50	10	20	50	100
Cu	65	**1.0000**	0.066	0.50	10	20	50	100
Zn	66	**0.9999**	0.018	6.00	10	20	50	100
Zn	67	**1.0000**	0.003	6.00	10	20	50	100
As	75	**0.9999**	0.009	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.036	0.10	10	20	50	100
Cd	114	**1.0000**	0.088	0.10	10	20	50	100
Tb	159							
Pb	208	**0.9999**	0.083	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:45:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40786	0	Standard
	Cl	**37**		ug/L			3578521	3843677	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	480771	2	Standard
⎢	**Cr**	**52**	**49.787**	ug/L	0.809	1	18596	972046	2	Standard
⎢	**Cr**	**53**	**49.470**	ug/L	0.879	1	133	110654	2	Standard
⎣	**Mn**	**55**	**50.598**	ug/L	0.758	1	801	1404133	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	24498	2	KED
⎢	**Ni**	**60**	**50.483**	ug/L	0.573	1	86	55341	2	KED
⎢	**Ni**	**62**	**51.318**	ug/L	0.367	0	16	9224	1	KED
⎢	**Cu**	**63**	**50.128**	ug/L	1.072	2	67	163576	2	KED
⎢	**Cu**	**65**	**50.843**	ug/L	0.690	1	42	81935	1	KED
⎢	**Zn**	**66**	**49.855**	ug/L	1.360	2	67	21628	0	KED
⎢	**Zn**	**67**	**47.602**	ug/L	0.296	0	11	3528	1	KED
⎣	**As**	**75**	**47.022**	ug/L	1.054	2	6	10268	0	KED
	Y	**89**		ug/L			230853	234516	2	Standard
	Kr	**83**		ug/L			65	62	15	Standard
⎡>	**In-1**	**115**		ug/L			6387	6662	1	KED
⎢	**Cd**	**111**	**50.117**	ug/L	1.037	2	5	12099	1	KED
⎣	**Cd**	**114**	**49.409**	ug/L	0.747	1	2	28971	2	KED
⎡>	**Tb**	**159**		ug/L			540555	565959	4	Standard
⎣	**Pb**	**208**	**49.764**	ug/L	2.005	4	256	2338061	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:53:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32454	2	Standard
	Cl	**37**		ug/L			3578521	3485295	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	466733	1	Standard
⎢	**Cr**	**52**	**0.007**	ug/L	0.031	434	18596	18334	1	Standard
⎢	**Cr**	**53**	**-0.003**	ug/L	0.002	69	133	124	4	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.001	215	801	766	3	Standard
⎡>	**Ge**	**72**		ug/L			24444	23033	1	KED
⎢	**Ni**	**60**	**0.006**	ug/L	0.018	298	86	87	21	KED
⎢	**Ni**	**62**	**0.005**	ug/L	0.042	773	16	16	43	KED
⎢	**Cu**	**63**	**-0.004**	ug/L	0.003	72	67	52	14	KED
⎢	**Cu**	**65**	**-0.005**	ug/L	0.003	59	42	31	15	KED
⎢	**Zn**	**66**	**0.008**	ug/L	0.010	120	67	66	4	KED
⎢	**Zn**	**67**	**-0.001**	ug/L	0.086	11541	11	10	56	KED
⎣	**As**	**75**	**0.009**	ug/L	0.008	85	6	8	17	KED
	Y	**89**		ug/L			230853	229503	2	Standard
	Kr	**83**		ug/L			65	43	24	Standard
⎡>	**In-1**	**115**		ug/L			6387	6370	2	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.006	50	5	2	65	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.004	355	2	1	111	KED
⎡>	**Tb**	**159**		ug/L			540555	542547	3	Standard
⎣	**Pb**	**208**	**-0.000**	ug/L	0.000	174	256	249	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:57:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	31531	3	Standard
	Cl	**37**		ug/L			3578521	3763953	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	466768	2	Standard
⎢	**Cr**	**52**	**50.184**	ug/L	1.833	3	18596	950918	2	Standard
⎢	**Cr**	**53**	**49.150**	ug/L	0.936	1	133	106710	0	Standard
⎣	**Mn**	**55**	**50.141**	ug/L	0.727	1	801	1350699	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23938	3	KED
⎢	**Ni**	**60**	**49.815**	ug/L	0.710	1	86	53346	3	KED
⎢	**Ni**	**62**	**48.460**	ug/L	0.830	1	16	8512	3	KED
⎢	**Cu**	**63**	**48.874**	ug/L	1.270	2	67	155835	4	KED
⎢	**Cu**	**65**	**48.695**	ug/L	1.588	3	42	76641	2	KED
⎢	**Zn**	**66**	**49.464**	ug/L	1.551	3	67	20963	2	KED
⎢	**Zn**	**67**	**47.809**	ug/L	0.769	1	11	3464	5	KED
⎣	**As**	**75**	**49.303**	ug/L	0.930	1	6	10520	3	KED
	Y	**89**		ug/L			230853	227527	1	Standard
	Kr	**83**		ug/L			65	61	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6443	0	KED
⎢	**Cd**	**111**	**48.789**	ug/L	0.450	0	5	11394	0	KED
⎣	**Cd**	**114**	**49.216**	ug/L	0.940	1	2	27911	1	KED
⎡>	**Tb**	**159**		ug/L			540555	554668	3	Standard
⎣	**Pb**	**208**	**49.212**	ug/L	1.696	3	256	2266949	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:04:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32390	2	Standard
	Cl	**37**		ug/L			3578521	3476432	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	453367	1	Standard
⎢	**Cr**	**52**	**0.010**	ug/L	0.013	135	18596	17857	0	Standard
⎢	**Cr**	**53**	**-0.007**	ug/L	0.004	59	133	111	9	Standard
⎣	**Mn**	**55**	**-0.002**	ug/L	0.001	60	801	721	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	22661	3	KED
⎢	**Ni**	**60**	**0.008**	ug/L	0.020	251	86	87	19	KED
⎢	**Ni**	**62**	**0.012**	ug/L	0.054	446	16	17	48	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.002	62	67	54	13	KED
⎢	**Cu**	**65**	**-0.009**	ug/L	0.006	72	42	26	37	KED
⎢	**Zn**	**66**	**-0.020**	ug/L	0.016	82	67	54	14	KED
⎢	**Zn**	**67**	**-0.007**	ug/L	0.028	412	11	10	21	KED
⎣	**As**	**75**	**0.003**	ug/L	0.010	348	6	6	34	KED
	Y	**89**		ug/L			230853	220617	1	Standard
	Kr	**83**		ug/L			65	68	37	Standard
⎡>	**In-1**	**115**		ug/L			6387	6506	2	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.003	20	5	2	24	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.003	337	2	1	101	KED
⎡>	**Tb**	**159**		ug/L			540555	535661	4	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.001	6530	256	253	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:09:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	35948	1	Standard
	Cl	**37**		ug/L			3578521	3574068	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	463765	1	Standard
|	**Cr**	**52**	**0.523**	ug/L	0.027	5	18596	27754	2	Standard
|	**Cr**	**53**	**0.510**	ug/L	0.033	6	133	1229	7	Standard
⌊	**Mn**	**55**	**0.519**	ug/L	0.015	2	801	14652	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23422	2	KED
|	**Ni**	**60**	**0.418**	ug/L	0.031	7	86	520	6	KED
|	**Ni**	**62**	**0.511**	ug/L	0.040	7	16	103	7	KED
|	**Cu**	**63**	**0.509**	ug/L	0.016	3	67	1653	3	KED
|	**Cu**	**65**	**0.500**	ug/L	0.013	2	42	810	0	KED
|	**Zn**	**66**	**6.233**	ug/L	0.466	7	67	2642	7	KED
|	**Zn**	**67**	**5.398**	ug/L	0.365	6	11	392	7	KED
⌊	**As**	**75**	**0.208**	ug/L	0.013	6	6	49	4	KED
	Y	**89**		ug/L			230853	232415	3	Standard
	Kr	**83**		ug/L			65	60	6	Standard
⌈>	**In-1**	**115**		ug/L			6387	6420	2	KED
|	**Cd**	**111**	**0.097**	ug/L	0.014	13	5	27	12	KED
⌊	**Cd**	**114**	**0.088**	ug/L	0.015	17	2	51	13	KED
⌈>	**Tb**	**159**		ug/L			540555	540991	3	Standard
⌊	**Pb**	**208**	**0.103**	ug/L	0.008	7	256	4883	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:16:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	133365	2	Standard
	Cl	**37**		ug/L			3578521	9574072	0	Standard
>	**Sc**	**45**		ug/L			476701	478682	1	Standard
	Cr	**52**	**0.792**	ug/L	0.020	2	18596	33775	2	Standard
	Cr	**53**	**4.268**	ug/L	0.040	0	133	9627	0	Standard
	Mn	**55**	**0.093**	ug/L	0.001	0	801	3384	1	Standard
>	**Ge**	**72**		ug/L			24444	22875	0	KED
	Ni	**60**	**0.027**	ug/L	0.005	17	86	107	4	KED
	Ni	**62**	**0.101**	ug/L	0.060	59	16	32	31	KED
	Cu	**63**	**0.022**	ug/L	0.006	26	67	130	14	KED
	Cu	**65**	**0.019**	ug/L	0.006	29	42	68	12	KED
	Zn	**66**	**0.180**	ug/L	0.031	17	67	135	9	KED
	Zn	**67**	**0.121**	ug/L	0.075	61	11	19	26	KED
	As	**75**	**0.030**	ug/L	0.010	33	6	12	16	KED
	Y	**89**		ug/L			230853	228373	0	Standard
	Kr	**83**		ug/L			65	122	20	Standard
>	**In-1**	**115**		ug/L			6387	6624	0	KED
	Cd	**111**	**0.034**	ug/L	0.018	53	5	13	32	KED
	Cd	**114**	**0.050**	ug/L	0.017	33	2	31	31	KED
>	**Tb**	**159**		ug/L			540555	559407	2	Standard
	Pb	**208**	**0.027**	ug/L	0.002	7	256	1519	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:20:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	138783	3	Standard
	Cl	**37**		ug/L			3578521	9966369	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	485486	2	Standard
⎢	**Cr**	**52**	**20.026**	ug/L	0.174	0	18596	406193	2	Standard
⎢	**Cr**	**53**	**23.495**	ug/L	0.073	0	133	53138	2	Standard
⎣	**Mn**	**55**	**19.655**	ug/L	0.115	0	801	551293	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23742	0	KED
⎢	**Ni**	**60**	**20.042**	ug/L	0.397	1	86	21341	2	KED
⎢	**Ni**	**62**	**19.764**	ug/L	0.554	2	16	3453	3	KED
⎢	**Cu**	**63**	**19.545**	ug/L	0.202	1	67	61861	1	KED
⎢	**Cu**	**65**	**19.953**	ug/L	0.161	0	42	31194	1	KED
⎢	**Zn**	**66**	**18.915**	ug/L	0.159	0	67	7995	0	KED
⎢	**Zn**	**67**	**16.667**	ug/L	1.048	6	11	1204	5	KED
⎣	**As**	**75**	**19.326**	ug/L	0.115	0	6	4095	0	KED
	Y	**89**		ug/L			230853	229966	1	Standard
	Kr	**83**		ug/L			65	137	27	Standard
⎡>	**In-1**	**115**		ug/L			6387	6521	0	KED
⎢	**Cd**	**111**	**18.736**	ug/L	0.428	2	5	4431	1	KED
⎣	**Cd**	**114**	**18.778**	ug/L	0.504	2	2	10778	1	KED
⎡>	**Tb**	**159**		ug/L			540555	573723	2	Standard
⎣	**Pb**	**208**	**0.023**	ug/L	0.001	5	256	1349	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:25:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39074	3	Standard
	Cl	**37**		ug/L			3578521	3856935	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	456409	3	Standard
⎢	**Cr**	**52**	**193.343**	ug/L	2.966	1	18596	3531440	1	Standard
⎢	**Cr**	**53**	**198.015**	ug/L	5.129	2	133	419899	1	Standard
⎣	**Mn**	**55**	**191.807**	ug/L	3.718	1	801	5049101	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	22512	1	KED
⎢	**Ni**	**60**	**199.073**	ug/L	3.055	1	86	200278	1	KED
⎢	**Ni**	**62**	**192.794**	ug/L	2.871	1	16	31802	0	KED
⎢	**Cu**	**63**	**191.523**	ug/L	1.939	1	67	574163	0	KED
⎢	**Cu**	**65**	**193.460**	ug/L	4.472	2	42	286399	1	KED
⎢	**Zn**	**66**	**188.006**	ug/L	2.903	1	67	74799	0	KED
⎢	**Zn**	**67**	**186.011**	ug/L	2.602	1	11	12639	0	KED
⎣	**As**	**75**	**195.717**	ug/L	2.015	1	6	39265	0	KED
	Y	**89**		ug/L			230853	223300	2	Standard
	Kr	**83**		ug/L			65	142	11	Standard
⎡>	**In-1**	**115**		ug/L			6387	6273	2	KED
⎢	**Cd**	**111**	**190.924**	ug/L	4.507	2	5	43380	0	KED
⎣	**Cd**	**114**	**194.680**	ug/L	5.687	2	2	107437	1	KED
⎡>	**Tb**	**159**		ug/L			540555	552314	3	Standard
⎣	**Pb**	**208**	**195.436**	ug/L	5.153	2	256	8964706	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:30:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38343	3	Standard
	Cl	**37**		ug/L			3578521	3744087	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	417544	5	Standard
|	**Cr**	**52**	**294.258**	ug/L	9.636	3	18596	4904389	2	Standard
|	**Cr**	**53**	**299.702**	ug/L	5.314	1	133	581328	4	Standard
⌊	**Mn**	**55**	**290.052**	ug/L	11.115	3	801	6979432	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	22282	0	KED
|	**Ni**	**60**	**287.935**	ug/L	4.653	1	86	286696	1	KED
|	**Ni**	**62**	**289.121**	ug/L	9.466	3	16	47202	3	KED
|	**Cu**	**63**	**283.347**	ug/L	3.513	1	67	840765	0	KED
|	**Cu**	**65**	**277.320**	ug/L	6.276	2	42	406371	2	KED
|	**Zn**	**66**	**273.038**	ug/L	5.484	2	67	107507	2	KED
|	**Zn**	**67**	**275.612**	ug/L	6.869	2	11	18534	2	KED
⌊	**As**	**75**	**290.018**	ug/L	2.768	0	6	57589	0	KED
	Y	**89**		ug/L			230853	203066	6	Standard
	Kr	**83**		ug/L			65	189	25	Standard
⌈>	**In-1**	**115**		ug/L			6387	6115	1	KED
|	**Cd**	**111**	**277.844**	ug/L	0.889	0	5	61559	0	KED
⌊	**Cd**	**114**	**281.147**	ug/L	1.593	0	2	151309	0	KED
⌈>	**Tb**	**159**		ug/L			540555	511728	6	Standard
⌊	**Pb**	**208**	**296.866**	ug/L	18.243	6	256	12588201	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:37:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38232	2	Standard
	Cl	**37**		ug/L			3578521	3767099	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	473134	1	Standard
⎢	**Cr**	**52**	**0.028**	ug/L	0.012	41	18596	18982	0	Standard
⎢	**Cr**	**53**	**0.058**	ug/L	0.007	12	133	258	5	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.001	43	801	721	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	24085	0	KED
⎢	**Ni**	**60**	**-0.061**	ug/L	0.008	12	86	19	43	KED
⎢	**Ni**	**62**	**-0.056**	ug/L	0.013	22	16	6	34	KED
⎢	**Cu**	**63**	**0.018**	ug/L	0.002	10	67	124	4	KED
⎢	**Cu**	**65**	**0.013**	ug/L	0.009	64	42	62	21	KED
⎢	**Zn**	**66**	**0.014**	ug/L	0.039	272	67	72	22	KED
⎢	**Zn**	**67**	**0.020**	ug/L	0.015	74	11	12	8	KED
⎣	**As**	**75**	**0.014**	ug/L	0.012	83	6	9	25	KED
	Y	**89**		ug/L			230853	226205	2	Standard
	Kr	**83**		ug/L			65	48	14	Standard
⎡>	**In-1**	**115**		ug/L			6387	6471	1	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.004	30	5	1	50	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.002	152	2	3	34	KED
⎡>	**Tb**	**159**		ug/L			540555	546900	2	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	22	256	295	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:43:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33964	2	Standard
	Cl	**37**		ug/L			3578521	3844252	4	Standard
⎡>	**Sc**	**45**		ug/L			476701	480369	1	Standard
⎢	**Cr**	**52**	**48.855**	ug/L	0.513	1	18596	953430	1	Standard
⎢	**Cr**	**53**	**49.077**	ug/L	0.428	0	133	109674	0	Standard
⎣	**Mn**	**55**	**50.517**	ug/L	0.452	0	801	1400700	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	24890	0	KED
⎢	**Ni**	**60**	**49.269**	ug/L	0.541	1	86	54872	1	KED
⎢	**Ni**	**62**	**49.893**	ug/L	1.722	3	16	9113	3	KED
⎢	**Cu**	**63**	**49.049**	ug/L	0.590	1	67	162640	1	KED
⎢	**Cu**	**65**	**49.669**	ug/L	0.938	1	42	81338	1	KED
⎢	**Zn**	**66**	**50.175**	ug/L	0.106	0	67	22123	0	KED
⎢	**Zn**	**67**	**50.188**	ug/L	1.538	3	11	3779	3	KED
⎣	**As**	**75**	**49.548**	ug/L	0.333	0	6	10996	0	KED
	Y	**89**		ug/L			230853	235771	3	Standard
	Kr	**83**		ug/L			65	59	11	Standard
⎡>	**In-1**	**115**		ug/L			6387	6848	2	KED
⎢	**Cd**	**111**	**49.936**	ug/L	1.831	3	5	12386	0	KED
⎣	**Cd**	**114**	**50.024**	ug/L	2.132	4	2	30130	1	KED
⎡>	**Tb**	**159**		ug/L			540555	563345	3	Standard
⎣	**Pb**	**208**	**49.922**	ug/L	1.242	2	256	2335962	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:50:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33015	0	Standard
	Cl	**37**		ug/L			3578521	3704542	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	474926	1	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.027	1536	18596	18496	3	Standard
⎢	**Cr**	**53**	**0.034**	ug/L	0.005	15	133	207	4	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.001	54	801	726	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	24129	0	KED
⎢	**Ni**	**60**	**-0.009**	ug/L	0.004	46	86	75	5	KED
⎢	**Ni**	**62**	**0.005**	ug/L	0.011	219	16	17	11	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.002	62	67	56	11	KED
⎢	**Cu**	**65**	**-0.008**	ug/L	0.004	50	42	29	19	KED
⎢	**Zn**	**66**	**-0.004**	ug/L	0.022	568	67	64	13	KED
⎢	**Zn**	**67**	**-0.024**	ug/L	0.025	103	11	9	20	KED
⎣	**As**	**75**	**-0.005**	ug/L	0.015	305	6	5	57	KED
	Y	**89**		ug/L			230853	233305	1	Standard
	Kr	**83**		ug/L			65	44	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6405	1	KED
⎢	**Cd**	**111**	**-0.007**	ug/L	0.010	153	5	3	68	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.007	679	2	2	132	KED
⎡>	**Tb**	**159**		ug/L			540555	547515	2	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.001	160	256	233	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 15:59:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	46324	2	Standard
	Cl	37		ug/L			3578521	3738945	3	Standard
⌈>	Sc	45		ug/L			476701	484141	3	Standard
|	Cr	52	0.059	ug/L	0.011	18	18596	20016	3	Standard
|	Cr	53	0.032	ug/L	0.004	13	133	206	1	Standard
⌊	Mn	55	0.003	ug/L	0.003	90	801	893	4	Standard
⌈>	Ge	72		ug/L			24444	24924	1	KED
|	Ni	60	-0.064	ug/L	0.005	8	86	17	33	KED
|	Ni	62	-0.068	ug/L	0.012	18	16	4	49	KED
|	Cu	63	-0.009	ug/L	0.001	5	67	39	5	KED
|	Cu	65	-0.012	ug/L	0.003	26	42	24	22	KED
|	Zn	66	-0.059	ug/L	0.014	22	67	42	14	KED
|	Zn	67	-0.054	ug/L	0.026	48	11	7	25	KED
⌊	As	75	-0.006	ug/L	0.008	129	6	5	35	KED
	Y	89		ug/L			230853	233132	3	Standard
	Kr	83		ug/L			65	46	20	Standard
⌈>	In-1	115		ug/L			6387	7032	1	KED
|	Cd	111	-0.016	ug/L	0.002	14	5	1	34	KED
⌊	Cd	114	0.000	ug/L	0.006	1324	2	2	134	KED
⌈>	Tb	159		ug/L			540555	554009	4	Standard
⌊	Pb	208	-0.002	ug/L	0.000	15	256	178	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:03:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	40988	0	Standard
	Cl	37		ug/L			3578521	3629257	0	Standard
⌈>	Sc	45		ug/L			476701	459012	2	Standard
|	Cr	52	26.943	ug/L	0.797	2	18596	510278	0	Standard
|	Cr	53	26.559	ug/L	0.543	2	133	56774	2	Standard
⌊	Mn	55	27.237	ug/L	0.754	2	801	721705	0	Standard
⌈>	Ge	72		ug/L			24444	23613	0	KED
|	Ni	60	26.460	ug/L	0.460	1	86	27993	1	KED
|	Ni	62	26.261	ug/L	0.868	3	16	4557	2	KED
|	Cu	63	26.325	ug/L	0.339	1	67	82836	0	KED
|	Cu	65	27.041	ug/L	0.490	1	42	42027	1	KED
|	Zn	66	81.867	ug/L	1.187	1	67	34202	0	KED
|	Zn	67	76.445	ug/L	1.246	1	11	5455	1	KED
⌊	As	75	25.218	ug/L	0.451	1	6	5312	1	KED
	Y	89		ug/L			230853	225975	1	Standard
	Kr	83		ug/L			65	60	17	Standard
⌈>	In-1	115		ug/L			6387	6475	1	KED
|	Cd	111	25.974	ug/L	0.726	2	5	6097	1	KED
⌊	Cd	114	25.913	ug/L	0.100	0	2	14770	1	KED
⌈>	Tb	159		ug/L			540555	535290	2	Standard
⌊	Pb	208	27.333	ug/L	0.697	2	256	1215549	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:15:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40306	2	Standard
	Cl	**37**		ug/L			3578521	3599694	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	457934	2	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.033	168	18596	18217	1	Standard
|	**Cr**	**53**	**0.022**	ug/L	0.003	15	133	175	3	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.001	10	801	938	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23903	1	KED
|	**Ni**	**60**	**-0.070**	ug/L	0.004	5	86	9	40	KED
|	**Ni**	**62**	**-0.070**	ug/L	0.011	15	16	3	50	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	41	67	53	10	KED
|	**Cu**	**65**	**-0.012**	ug/L	0.004	31	42	23	26	KED
|	**Zn**	**66**	**-0.037**	ug/L	0.020	54	67	50	15	KED
|	**Zn**	**67**	**-0.049**	ug/L	0.025	51	11	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	855	6	6	18	KED
	Y	**89**		ug/L			230853	222370	2	Standard
	Kr	**83**		ug/L			65	43	19	Standard
⌈>	**In-1**	**115**		ug/L			6387	6482	2	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.006	75	5	3	45	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	169	2	3	37	KED
⌈>	**Tb**	**159**		ug/L			540555	532770	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	121	256	218	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:20:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39701	3	Standard
	Cl	**37**		ug/L			3578521	3641610	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	482467	1	Standard
|	**Cr**	**52**	**27.183**	ug/L	0.195	0	18596	541167	1	Standard
|	**Cr**	**53**	**27.154**	ug/L	0.144	0	133	61017	2	Standard
⌊	**Mn**	**55**	**27.761**	ug/L	0.471	1	801	773317	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23902	1	KED
|	**Ni**	**60**	**27.923**	ug/L	0.516	1	86	29896	0	KED
|	**Ni**	**62**	**27.174**	ug/L	0.913	3	16	4775	4	KED
|	**Cu**	**63**	**26.665**	ug/L	0.528	1	67	84932	2	KED
|	**Cu**	**65**	**27.045**	ug/L	0.587	2	42	42543	1	KED
|	**Zn**	**66**	**84.993**	ug/L	2.024	2	67	35935	1	KED
|	**Zn**	**67**	**77.004**	ug/L	1.713	2	11	5563	3	KED
⌊	**As**	**75**	**25.553**	ug/L	0.662	2	6	5447	1	KED
	Y	**89**		ug/L			230853	234135	0	Standard
	Kr	**83**		ug/L			65	66	13	Standard
⌈>	**In-1**	**115**		ug/L			6387	6720	1	KED
|	**Cd**	**111**	**25.939**	ug/L	0.364	1	5	6320	1	KED
⌊	**Cd**	**114**	**26.196**	ug/L	0.419	1	2	15495	1	KED
⌈>	**Tb**	**159**		ug/L			540555	544321	3	Standard
⌊	**Pb**	**208**	**28.164**	ug/L	1.019	3	256	1273060	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:24:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34600	3	Standard
	Cl	**37**		ug/L			3578521	3567331	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	449997	1	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.027	351	18596	17692	3	Standard
|	**Cr**	**53**	**0.027**	ug/L	0.006	22	133	183	6	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.003	160	801	801	7	Standard
⌈>	**Ge**	**72**		ug/L			24444	23602	1	KED
|	**Ni**	**60**	**0.016**	ug/L	0.008	49	86	100	9	KED
|	**Ni**	**62**	**0.103**	ug/L	0.029	28	16	33	14	KED
|	**Cu**	**63**	**37.085**	ug/L	0.056	0	67	116624	1	KED
|	**Cu**	**65**	**37.112**	ug/L	0.436	1	42	57637	0	KED
|	**Zn**	**66**	**0.486**	ug/L	0.058	11	67	267	10	KED
|	**Zn**	**67**	**0.416**	ug/L	0.009	2	11	40	2	KED
⌊	**As**	**75**	**0.011**	ug/L	0.014	131	6	8	35	KED
	Y	**89**		ug/L			230853	221057	2	Standard
	Kr	**83**		ug/L			65	59	8	Standard
⌈>	**In-1**	**115**		ug/L			6387	6612	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.011	75	5	1	132	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	62	2	0	224	KED
⌈>	**Tb**	**159**		ug/L			540555	521310	3	Standard
⌊	**Pb**	**208**	**0.087**	ug/L	0.004	4	256	3998	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-14
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 16:28:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	37032	4	Standard
	Cl	**37**		ug/L			3578521	3612709	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	461936	0	Standard
|	**Cr**	**52**	**0.078**	ug/L	0.017	21	18596	19452	1	Standard
|	**Cr**	**53**	**0.124**	ug/L	0.008	6	133	394	4	Standard
⌊	**Mn**	**55**	**0.214**	ug/L	0.006	2	801	6472	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23448	2	KED
|	**Ni**	**60**	**0.007**	ug/L	0.004	61	86	90	3	KED
|	**Ni**	**62**	**0.160**	ug/L	0.059	37	16	43	21	KED
|	**Cu**	**63**	**57.999**	ug/L	2.111	3	67	181076	2	KED
|	**Cu**	**65**	**57.765**	ug/L	2.160	3	42	89070	2	KED
|	**Zn**	**66**	**1.330**	ug/L	0.104	7	67	614	5	KED
|	**Zn**	**67**	**1.213**	ug/L	0.248	20	11	96	15	KED
⌊	**As**	**75**	**0.104**	ug/L	0.008	7	6	28	8	KED
	Y	**89**		ug/L			230853	223875	0	Standard
	Kr	**83**		ug/L			65	55	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6464	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.008	134	5	3	50	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	167	2	3	54	KED
⌈>	**Tb**	**159**		ug/L			540555	531880	4	Standard
⌊	**Pb**	**208**	**0.610**	ug/L	0.026	4	256	27175	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-02
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:33:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	36675	1	Standard
	Cl	**37**		ug/L			3578521	3628064	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	473048	1	Standard
|	**Cr**	**52**	**0.048**	ug/L	0.014	28	18596	19353	0	Standard
|	**Cr**	**53**	**0.057**	ug/L	0.010	18	133	258	7	Standard
⌊	**Mn**	**55**	**0.018**	ug/L	0.002	12	801	1282	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	24540	2	KED
|	**Ni**	**60**	**-0.014**	ug/L	0.006	47	86	71	11	KED
|	**Ni**	**62**	**0.134**	ug/L	0.011	8	16	40	7	KED
|	**Cu**	**63**	**54.182**	ug/L	1.116	2	67	177056	0	KED
|	**Cu**	**65**	**55.386**	ug/L	2.140	3	42	89354	0	KED
|	**Zn**	**66**	**4.384**	ug/L	0.306	6	67	1965	4	KED
|	**Zn**	**67**	**3.472**	ug/L	0.369	10	11	267	7	KED
⌊	**As**	**75**	**0.016**	ug/L	0.007	43	6	10	15	KED
	Y	**89**		ug/L			230853	231963	1	Standard
	Kr	**83**		ug/L			65	52	21	Standard
⌈>	**In-1**	**115**		ug/L			6387	6706	1	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.006	52	5	2	57	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	442	2	2	73	KED
⌈>	**Tb**	**159**		ug/L			540555	547136	2	Standard
⌊	**Pb**	**208**	**0.038**	ug/L	0.001	3	256	1983	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0475-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:37:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	35647	2	Standard
	Cl	**37**		ug/L			3578521	3575993	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	454965	2	Standard
|	**Cr**	**52**	**0.074**	ug/L	0.017	23	18596	19081	0	Standard
|	**Cr**	**53**	**0.093**	ug/L	0.003	3	133	324	0	Standard
⌊	**Mn**	**55**	**0.460**	ug/L	0.011	2	801	12835	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23475	0	KED
|	**Ni**	**60**	**-0.015**	ug/L	0.018	114	86	66	27	KED
|	**Ni**	**62**	**0.000**	ug/L	0.055	28890	16	15	59	KED
|	**Cu**	**63**	**0.467**	ug/L	0.034	7	67	1525	6	KED
|	**Cu**	**65**	**0.506**	ug/L	0.051	10	42	822	9	KED
|	**Zn**	**66**	**60.664**	ug/L	1.748	2	67	25213	2	KED
|	**Zn**	**67**	**52.682**	ug/L	0.456	0	11	3741	1	KED
⌊	**As**	**75**	**0.065**	ug/L	0.006	8	6	20	6	KED
	Y	**89**		ug/L			230853	221691	1	Standard
	Kr	**83**		ug/L			65	52	16	Standard
⌈>	**In-1**	**115**		ug/L			6387	6478	1	KED
|	**Cd**	**111**	**0.120**	ug/L	0.009	7	5	33	4	KED
⌊	**Cd**	**114**	**0.137**	ug/L	0.039	28	2	80	26	KED
⌈>	**Tb**	**159**		ug/L			540555	518561	3	Standard
⌊	**Pb**	**208**	**0.030**	ug/L	0.003	8	256	1544	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0476-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:42:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	36008	4	Standard
	Cl	**37**		ug/L			3578521	3564717	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	466106	4	Standard
|	**Cr**	**52**	**0.071**	ug/L	0.035	48	18596	19499	4	Standard
|	**Cr**	**53**	**0.082**	ug/L	0.001	1	133	307	3	Standard
⌊	**Mn**	**55**	**0.419**	ug/L	0.004	1	801	12045	5	Standard
⌈>	**Ge**	**72**		ug/L			24444	23777	1	KED
|	**Ni**	**60**	**-0.035**	ug/L	0.005	13	86	46	11	KED
|	**Ni**	**62**	**-0.016**	ug/L	0.022	136	16	13	28	KED
|	**Cu**	**63**	**0.424**	ug/L	0.025	5	67	1408	6	KED
|	**Cu**	**65**	**0.439**	ug/L	0.026	5	42	727	4	KED
|	**Zn**	**66**	**57.739**	ug/L	2.119	3	67	24303	2	KED
|	**Zn**	**67**	**51.530**	ug/L	1.622	3	11	3706	3	KED
⌊	**As**	**75**	**0.044**	ug/L	0.020	44	6	15	25	KED
	Y	**89**		ug/L			230853	225384	4	Standard
	Kr	**83**		ug/L			65	45	15	Standard
⌈>	**In-1**	**115**		ug/L			6387	6319	0	KED
|	**Cd**	**111**	**0.103**	ug/L	0.011	10	5	28	8	KED
⌊	**Cd**	**114**	**0.170**	ug/L	0.019	10	2	96	10	KED
⌈>	**Tb**	**159**		ug/L			540555	530176	5	Standard
⌊	**Pb**	**208**	**0.027**	ug/L	0.001	4	256	1418	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:46:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33771	3	Standard
	Cl	**37**		ug/L			3578521	3526406	3	Standard
⌈>	**Sc**	**45**		ug/L			476701	447002	1	Standard
|	**Cr**	**52**	**0.010**	ug/L	0.022	214	18596	17617	0	Standard
|	**Cr**	**53**	**0.008**	ug/L	0.000	4	133	142	1	Standard
⌊	**Mn**	**55**	**-0.008**	ug/L	0.000	5	801	558	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23310	1	KED
|	**Ni**	**60**	**-0.066**	ug/L	0.002	2	86	13	14	KED
|	**Ni**	**62**	**-0.070**	ug/L	0.011	16	16	3	50	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.002	30	67	42	15	KED
|	**Cu**	**65**	**-0.017**	ug/L	0.005	29	42	13	55	KED
|	**Zn**	**66**	**-0.080**	ug/L	0.019	23	67	31	24	KED
|	**Zn**	**67**	**-0.056**	ug/L	0.015	27	11	6	15	KED
⌊	**As**	**75**	**0.004**	ug/L	0.004	100	6	7	11	KED
	Y	**89**		ug/L			230853	216880	3	Standard
	Kr	**83**		ug/L			65	54	24	Standard
⌈>	**In-1**	**115**		ug/L			6387	6437	1	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.000	1	5	2	0	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.003	57	2	5	33	KED
⌈>	**Tb**	**159**		ug/L			540555	514991	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	36	256	182	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:51:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	31671	0	Standard
	Cl	**37**		ug/L			3578521	3735267	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	451697	0	Standard
|	**Cr**	**52**	**49.270**	ug/L	1.157	2	18596	904130	2	Standard
|	**Cr**	**53**	**49.738**	ug/L	0.169	0	133	104529	1	Standard
⌊	**Mn**	**55**	**50.464**	ug/L	0.445	0	801	1315691	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23403	1	KED
|	**Ni**	**60**	**49.983**	ug/L	1.151	2	86	52338	2	KED
|	**Ni**	**62**	**49.539**	ug/L	0.997	2	16	8506	1	KED
|	**Cu**	**63**	**48.754**	ug/L	1.515	3	67	151947	1	KED
|	**Cu**	**65**	**49.050**	ug/L	0.947	1	42	75517	1	KED
|	**Zn**	**66**	**50.197**	ug/L	1.427	2	67	20804	1	KED
|	**Zn**	**67**	**49.599**	ug/L	0.379	0	11	3512	1	KED
⌊	**As**	**75**	**49.586**	ug/L	0.877	1	6	10345	1	KED
	Y	**89**		ug/L			230853	223742	0	Standard
	Kr	**83**		ug/L			65	54	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6419	1	KED
|	**Cd**	**111**	**49.647**	ug/L	0.891	1	5	11551	1	KED
⌊	**Cd**	**114**	**50.339**	ug/L	0.757	1	2	28440	1	KED
⌈>	**Tb**	**159**		ug/L			540555	523439	4	Standard
⌊	**Pb**	**208**	**51.000**	ug/L	1.813	3	256	2216343	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:59:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32521	4	Standard
	Cl	**37**		ug/L			3578521	3548973	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	448574	1	Standard
⎢	**Cr**	**52**	**0.014**	ug/L	0.007	49	18596	17744	1	Standard
⎢	**Cr**	**53**	**0.001**	ug/L	0.005	711	133	126	9	Standard
⎣	**Mn**	**55**	**-0.004**	ug/L	0.002	49	801	656	6	Standard
⎡>	**Ge**	**72**		ug/L			24444	24308	1	KED
⎢	**Ni**	**60**	**0.013**	ug/L	0.016	120	86	100	18	KED
⎢	**Ni**	**62**	**-0.004**	ug/L	0.043	1205	16	15	49	KED
⎢	**Cu**	**63**	**-0.005**	ug/L	0.003	56	67	50	20	KED
⎢	**Cu**	**65**	**-0.015**	ug/L	0.006	37	42	18	47	KED
⎢	**Zn**	**66**	**0.015**	ug/L	0.022	142	67	73	14	KED
⎢	**Zn**	**67**	**-0.043**	ug/L	0.013	30	11	8	13	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.008	1396	6	6	25	KED
	Y	**89**		ug/L			230853	219778	2	Standard
	Kr	**83**		ug/L			65	47	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6729	2	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.004	28	5	1	50	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.002	62	2	0	224	KED
⎡>	**Tb**	**159**		ug/L			540555	518077	4	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	54	256	219	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:06:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	39209	2	Standard
	Cl	37		ug/L			3578521	3528331	1	Standard
>	Sc	45		ug/L			476701	448579	2	Standard
	Cr	52	0.275	ug/L	0.033	11	18596	22415	3	Standard
	Cr	53	0.248	ug/L	0.016	6	133	641	5	Standard
	Mn	55	0.311	ug/L	0.006	2	801	8803	2	Standard
>	Ge	72		ug/L			24444	23782	0	KED
	Ni	60	-0.062	ug/L	0.012	19	86	18	68	KED
	Ni	62	-0.070	ug/L	0.000	0	16	3	0	KED
	Cu	63	0.012	ug/L	0.002	13	67	104	4	KED
	Cu	65	0.004	ug/L	0.004	82	42	48	12	KED
	Zn	66	0.394	ug/L	0.040	10	67	231	7	KED
	Zn	67	0.332	ug/L	0.146	44	11	34	30	KED
	As	75	0.005	ug/L	0.010	192	6	7	28	KED
	Y	89		ug/L			230853	221360	2	Standard
	Kr	83		ug/L			65	42	6	Standard
>	In-1	115		ug/L			6387	6672	1	KED
	Cd	111	-0.015	ug/L	0.004	28	5	1	69	KED
	Cd	114	0.002	ug/L	0.003	195	2	3	56	KED
>	Tb	159		ug/L			540555	517458	3	Standard
	Pb	208	0.001	ug/L	0.000	30	256	269	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:10:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	42130	1	Standard
	Cl	37		ug/L			3578521	3799089	1	Standard
>	Sc	45		ug/L			476701	469683	3	Standard
	Cr	52	25.810	ug/L	0.522	2	18596	501122	3	Standard
	Cr	53	25.728	ug/L	0.279	1	133	56291	4	Standard
	Mn	55	26.271	ug/L	0.102	0	801	712608	3	Standard
>	Ge	72		ug/L			24444	23159	0	KED
	Ni	60	26.840	ug/L	0.383	1	86	27849	1	KED
	Ni	62	25.964	ug/L	0.743	2	16	4420	3	KED
	Cu	63	25.595	ug/L	0.865	3	67	78981	2	KED
	Cu	65	26.199	ug/L	0.371	1	42	39936	0	KED
	Zn	66	88.484	ug/L	1.498	1	67	36256	2	KED
	Zn	67	80.444	ug/L	0.941	1	11	5629	0	KED
	As	75	25.560	ug/L	0.154	0	6	5280	0	KED
	Y	89		ug/L			230853	229560	2	Standard
	Kr	83		ug/L			65	53	14	Standard
>	In-1	115		ug/L			6387	6571	3	KED
	Cd	111	25.362	ug/L	0.860	3	5	6040	1	KED
	Cd	114	25.591	ug/L	0.979	3	2	14792	0	KED
>	Tb	159		ug/L			540555	547406	3	Standard
	Pb	208	26.145	ug/L	0.822	3	256	1188596	0	Standard

BLA0192

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~BLA0197~~-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:14:54

MB 1/9/23

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41552	2	Standard
	Cl	**37**		ug/L			3578521	3541733	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	442805	0	Standard
|	**Cr**	**52**	**0.112**	ug/L	0.011	9	18596	19252	1	Standard
|	**Cr**	**53**	**0.064**	ug/L	0.008	13	133	256	6	Standard
⌊	**Mn**	**55**	**0.255**	ug/L	0.004	1	801	7246	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23525	0	KED
|	**Ni**	**60**	**-0.062**	ug/L	0.007	12	86	18	41	KED
|	**Ni**	**62**	**-0.067**	ug/L	0.028	41	16	4	107	KED
|	**Cu**	**63**	**0.020**	ug/L	0.005	24	67	128	12	KED
|	**Cu**	**65**	**0.010**	ug/L	0.008	80	42	55	21	KED
|	**Zn**	**66**	**0.354**	ug/L	0.082	23	67	212	16	KED
|	**Zn**	**67**	**0.356**	ug/L	0.207	58	11	36	39	KED
⌊	**As**	**75**	**0.014**	ug/L	0.013	89	6	9	28	KED
	Y	**89**		ug/L			230853	217530	3	Standard
	Kr	**83**		ug/L			65	43	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6417	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.004	30	5	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	266	2	2	35	KED
⌈>	**Tb**	**159**		ug/L			540555	506188	4	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	14	256	370	7	Standard

BLA0192

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~BLA0197~~-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:19:16

MB 1/9/23

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41327	2	Standard
	Cl	**37**		ug/L			3578521	3591995	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	447825	2	Standard
|	**Cr**	**52**	**25.477**	ug/L	0.581	2	18596	471780	1	Standard
|	**Cr**	**53**	**25.000**	ug/L	0.317	1	133	52141	1	Standard
⌊	**Mn**	**55**	**25.902**	ug/L	0.729	2	801	669814	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23216	1	KED
|	**Ni**	**60**	**25.895**	ug/L	0.592	2	86	26933	1	KED
|	**Ni**	**62**	**25.597**	ug/L	0.549	2	16	4367	0	KED
|	**Cu**	**63**	**25.953**	ug/L	0.718	2	67	80280	1	KED
|	**Cu**	**65**	**26.341**	ug/L	1.148	4	42	40236	2	KED
|	**Zn**	**66**	**84.556**	ug/L	1.267	1	67	34729	1	KED
|	**Zn**	**67**	**77.096**	ug/L	0.585	0	11	5409	2	KED
⌊	**As**	**75**	**25.243**	ug/L	0.242	0	6	5228	1	KED
	Y	**89**		ug/L			230853	218917	2	Standard
	Kr	**83**		ug/L			65	53	37	Standard
⌈>	**In-1**	**115**		ug/L			6387	6535	2	KED
|	**Cd**	**111**	**25.386**	ug/L	0.620	2	5	6013	1	KED
⌊	**Cd**	**114**	**25.184**	ug/L	0.843	3	2	14481	2	KED
⌈>	**Tb**	**159**		ug/L			540555	513669	5	Standard
⌊	**Pb**	**208**	**26.686**	ug/L	1.146	4	256	1137609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0066-01RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 17:23:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	128320	2	Standard
	Cl	**37**		ug/L			3578521	3899699	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	471371	1	Standard
|	**Cr**	**52**	**1.942**	ug/L	0.077	3	18596	54862	3	Standard
|	**Cr**	**53**	**1.683**	ug/L	0.014	0	133	3819	2	Standard
⌊	**Mn**	**55**	**4.635**	ug/L	0.121	2	801	126852	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	22635	0	KED
|	**Ni**	**60**	**1.911**	ug/L	0.046	2	86	2012	2	KED
|	**Ni**	**62**	**1.892**	ug/L	0.136	7	16	328	6	KED
|	**Cu**	**63**	**0.109**	ug/L	0.007	6	67	389	4	KED
|	**Cu**	**65**	**0.096**	ug/L	0.021	21	42	182	17	KED
|	**Zn**	**66**	**2.203**	ug/L	0.080	3	67	942	3	KED
|	**Zn**	**67**	**1.778**	ug/L	0.239	13	11	132	13	KED
⌊	**As**	**75**	**0.061**	ug/L	0.013	21	6	18	14	KED
	Y	**89**		ug/L			230853	228937	4	Standard
	Kr	**83**		ug/L			65	53	13	Standard
⌈>	**In-1**	**115**		ug/L			6387	6449	1	KED
|	**Cd**	**111**	**0.021**	ug/L	0.015	68	5	10	35	KED
⌊	**Cd**	**114**	**0.026**	ug/L	0.005	17	2	17	15	KED
⌈>	**Tb**	**159**		ug/L			540555	543167	2	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.003	10	256	1450	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0137-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 17:28:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	96191	1	Standard
	Cl	37		ug/L			3578521	3946369	1	Standard
⌈>	Sc	45		ug/L			476701	453601	2	Standard
|	Cr	52	1.686	ug/L	0.011	0	18596	48165	2	Standard
|	Cr	53	1.482	ug/L	0.026	1	133	3249	1	Standard
⌊	Mn	55	13.578	ug/L	0.114	0	801	356016	1	Standard
⌈>	Ge	72		ug/L			24444	22388	1	KED
|	Ni	60	3.108	ug/L	0.106	3	86	3187	2	KED
|	Ni	62	2.909	ug/L	0.116	3	16	492	2	KED
|	Cu	63	0.069	ug/L	0.006	9	67	269	8	KED
|	Cu	65	0.058	ug/L	0.021	36	42	123	24	KED
|	Zn	66	2.525	ug/L	0.109	4	67	1059	3	KED
|	Zn	67	2.272	ug/L	0.159	6	11	163	5	KED
⌊	As	75	0.071	ug/L	0.015	20	6	20	13	KED
	Y	89		ug/L			230853	219523	2	Standard
	Kr	83		ug/L			65	66	20	Standard
⌈>	In-1	115		ug/L			6387	6311	1	KED
|	Cd	111	-0.004	ug/L	0.010	258	5	4	58	KED
⌊	Cd	114	0.020	ug/L	0.008	39	2	13	33	KED
⌈>	Tb	159		ug/L			540555	521367	4	Standard
⌊	Pb	208	0.016	ug/L	0.001	8	256	921	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0116-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 17:35:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	42286	1	Standard
	Cl	37		ug/L			3578521	6769644	5	Standard
⌈>	Sc	45		ug/L			476701	455103	2	Standard
|	Cr	52	9.415	ug/L	0.110	1	18596	188397	1	Standard
|	Cr	53	13.672	ug/L	0.254	1	133	29035	0	Standard
⌊	Mn	55	2.705	ug/L	0.011	0	801	71786	1	Standard
⌈>	Ge	72		ug/L			24444	22687	1	KED
|	Ni	60	1.130	ug/L	0.013	1	86	1225	1	KED
|	Ni	62	1.199	ug/L	0.101	8	16	214	8	KED
|	Cu	63	12.837	ug/L	0.290	2	67	38843	2	KED
|	Cu	65	13.081	ug/L	0.273	2	42	19556	2	KED
|	Zn	66	15.132	ug/L	0.450	2	67	6125	2	KED
|	Zn	67	13.574	ug/L	0.531	3	11	939	4	KED
⌊	As	75	0.177	ug/L	0.018	9	6	42	9	KED
	Y	89		ug/L			230853	218368	2	Standard
	Kr	83		ug/L			65	53	18	Standard
⌈>	In-1	115		ug/L			6387	6402	2	KED
|	Cd	111	0.077	ug/L	0.039	51	5	22	39	KED
⌊	Cd	114	0.091	ug/L	0.011	12	2	53	11	KED
⌈>	Tb	159		ug/L			540555	525642	3	Standard
⌊	Pb	208	0.223	ug/L	0.005	2	256	9982	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-43
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 17:40:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	66452	3	Standard
	Cl	37		ug/L			3578521	3763365	0	Standard
>	Sc	45		ug/L			476701	611241	2	Standard
	Cr	52	16.933	ug/L	0.258	1	18596	435999	0	Standard
	Cr	53	17.179	ug/L	0.589	3	133	48939	1	Standard
	Mn	55	127.440	ug/L	2.565	2	801	4493412	0	Standard
>	Ge	72		ug/L			24444	23695	0	KED
	Ni	60	16.170	ug/L	0.085	0	86	17200	0	KED
	Ni	62	16.034	ug/L	0.534	3	16	2798	2	KED
	Cu	63	27.746	ug/L	0.719	2	67	87600	1	KED
	Cu	65	28.337	ug/L	0.119	0	42	44195	0	KED
	Zn	66	73.163	ug/L	1.042	1	67	30679	0	KED
	Zn	67	69.432	ug/L	1.436	2	11	4974	3	KED
	As	75	6.161	ug/L	0.063	1	6	1307	1	KED
	Y	89		ug/L			230853	479642	1	Standard
	Kr	83		ug/L			65	123	8	Standard
>	In-1	115		ug/L			6387	6451	2	KED
	Cd	111	0.462	ug/L	0.073	15	5	113	16	KED
	Cd	114	0.505	ug/L	0.062	12	2	288	9	KED
>	Tb	159		ug/L			540555	565155	2	Standard
	Pb	208	27.443	ug/L	0.865	3	256	1288329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-44
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 17:45:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	69320	1	Standard
	Cl	37		ug/L			3578521	3768320	1	Standard
>	Sc	45		ug/L			476701	617526	2	Standard
	Cr	52	18.193	ug/L	0.813	4	18596	471175	1	Standard
	Cr	53	18.077	ug/L	0.316	1	133	52029	1	Standard
	Mn	55	152.752	ug/L	4.505	2	801	5439600	0	Standard
>	Ge	72		ug/L			24444	23382	2	KED
	Ni	60	16.185	ug/L	0.422	2	86	16982	0	KED
	Ni	62	15.897	ug/L	0.602	3	16	2737	2	KED
	Cu	63	31.055	ug/L	0.883	2	67	96720	1	KED
	Cu	65	30.788	ug/L	0.597	1	42	47367	0	KED
	Zn	66	82.110	ug/L	1.153	1	67	33964	0	KED
	Zn	67	79.507	ug/L	1.505	1	11	5617	2	KED
	As	75	7.629	ug/L	0.257	3	6	1595	1	KED
	Y	89		ug/L			230853	495011	1	Standard
	Kr	83		ug/L			65	163	13	Standard
>	In-1	115		ug/L			6387	6401	3	KED
	Cd	111	0.698	ug/L	0.078	11	5	166	8	KED
	Cd	114	0.684	ug/L	0.028	4	2	387	4	KED
>	Tb	159		ug/L			540555	566643	2	Standard
	Pb	208	31.706	ug/L	0.515	1	256	1492807	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:49:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34163	0	Standard
	Cl	**37**		ug/L			3578521	3515432	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	450842	1	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.023	920	18596	17537	0	Standard
⎢	**Cr**	**53**	**0.022**	ug/L	0.005	22	133	173	4	Standard
⎣	**Mn**	**55**	**-0.006**	ug/L	0.001	9	801	608	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23839	1	KED
⎢	**Ni**	**60**	**-0.068**	ug/L	0.003	5	86	11	33	KED
⎢	**Ni**	**62**	**-0.081**	ug/L	0.000	0	16	1		KED
⎢	**Cu**	**63**	**-0.009**	ug/L	0.002	25	67	38	17	KED
⎢	**Cu**	**65**	**-0.016**	ug/L	0.005	29	42	16	46	KED
⎢	**Zn**	**66**	**-0.077**	ug/L	0.015	19	67	33	18	KED
⎢	**Zn**	**67**	**-0.066**	ug/L	0.042	62	11	6	45	KED
⎣	**As**	**75**	**0.003**	ug/L	0.008	255	6	7	23	KED
	Y	**89**		ug/L			230853	217262	0	Standard
	Kr	**83**		ug/L			65	62	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6522	1	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.009	75	5	2	98	KED
⎣	**Cd**	**114**	**0.005**	ug/L	0.003	64	2	5	35	KED
⎡>	**Tb**	**159**		ug/L			540555	513292	4	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.001	258	256	253	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:54:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34194	1	Standard
	Cl	**37**		ug/L			3578521	3833938	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	446495	6	Standard
⎢	**Cr**	**52**	**51.567**	ug/L	3.317	6	18596	932054	0	Standard
⎢	**Cr**	**53**	**51.414**	ug/L	3.131	6	133	106540	1	Standard
⎣	**Mn**	**55**	**52.127**	ug/L	3.076	5	801	1340471	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23571	0	KED
⎢	**Ni**	**60**	**50.219**	ug/L	1.180	2	86	52961	1	KED
⎢	**Ni**	**62**	**48.372**	ug/L	0.939	1	16	8366	1	KED
⎢	**Cu**	**63**	**48.438**	ug/L	0.151	0	67	152102	0	KED
⎢	**Cu**	**65**	**49.305**	ug/L	1.738	3	42	76453	2	KED
⎢	**Zn**	**66**	**49.398**	ug/L	1.088	2	67	20626	1	KED
⎢	**Zn**	**67**	**48.694**	ug/L	2.729	5	11	3472	4	KED
⎣	**As**	**75**	**49.088**	ug/L	0.913	1	6	10316	1	KED
	Y	**89**		ug/L			230853	223167	6	Standard
	Kr	**83**		ug/L			65	59	14	Standard
⎡>	**In-1**	**115**		ug/L			6387	6401	1	KED
⎢	**Cd**	**111**	**50.253**	ug/L	0.858	1	5	11658	0	KED
⎣	**Cd**	**114**	**50.336**	ug/L	1.378	2	2	28352	0	KED
⎡>	**Tb**	**159**		ug/L			540555	526560	6	Standard
⎣	**Pb**	**208**	**51.699**	ug/L	3.626	7	256	2256037	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:01:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32578	3	Standard
	Cl	**37**		ug/L			3578521	3603989	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	439943	1	Standard
|	**Cr**	**52**	**0.040**	ug/L	0.020	49	18596	17864	2	Standard
|	**Cr**	**53**	**0.016**	ug/L	0.006	34	133	156	8	Standard
⌊	**Mn**	**55**	**-0.004**	ug/L	0.001	21	801	649	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23232	0	KED
|	**Ni**	**60**	**0.001**	ug/L	0.007	652	86	83	9	KED
|	**Ni**	**62**	**-0.021**	ug/L	0.045	208	16	12	63	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.003	89	67	53	17	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.006	161	42	34	27	KED
|	**Zn**	**66**	**0.007**	ug/L	0.006	91	67	66	2	KED
|	**Zn**	**67**	**0.036**	ug/L	0.056	157	11	13	28	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.007	298	6	5	24	KED
	Y	**89**		ug/L			230853	221338	3	Standard
	Kr	**83**		ug/L			65	48	35	Standard
⌈>	**In-1**	**115**		ug/L			6387	6543	3	KED
|	**Cd**	**111**	**-0.015**	ug/L	0.005	30	5	1	69	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	82	2	1	90	KED
⌈>	**Tb**	**159**		ug/L			540555	508567	4	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	12	256	212	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:07:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	39642	2	Standard
	Cl	37		ug/L			3578521	3539808	2	Standard
>	Sc	45		ug/L			476701	451725	2	Standard
	Cr	52	0.044	ug/L	0.030	68	18596	18413	2	Standard
	Cr	53	0.040	ug/L	0.005	11	133	211	6	Standard
	Mn	55	0.253	ug/L	0.007	2	801	7340	3	Standard
>	Ge	72		ug/L			24444	23246	1	KED
	Ni	60	-0.057	ug/L	0.003	5	86	22	14	KED
	Ni	62	-0.085	ug/L	0.006	7	16	1	86	KED
	Cu	63	0.009	ug/L	0.006	68	67	91	19	KED
	Cu	65	0.004	ug/L	0.007	167	42	46	22	KED
	Zn	66	0.356	ug/L	0.026	7	67	210	6	KED
	Zn	67	0.542	ug/L	0.120	22	11	48	17	KED
	As	75	0.006	ug/L	0.016	283	6	7	42	KED
	Y	89		ug/L			230853	222484	3	Standard
	Kr	83		ug/L			65	52	27	Standard
>	In-1	115		ug/L			6387	6683	5	KED
	Cd	111	-0.011	ug/L	0.005	42	5	2	43	KED
	Cd	114	0.005	ug/L	0.006	122	2	5	63	KED
>	Tb	159		ug/L			540555	518735	4	Standard
	Pb	208	0.000	ug/L	0.001	783	256	249	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:11:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	41334	0	Standard
	Cl	37		ug/L			3578521	3805467	1	Standard
⌈>	Sc	45		ug/L			476701	454853	1	Standard
|	Cr	52	25.874	ug/L	0.169	0	18596	486479	0	Standard
|	Cr	53	25.719	ug/L	0.453	1	133	54478	0	Standard
⌊	Mn	55	26.421	ug/L	0.669	2	801	693883	0	Standard
⌈>	Ge	72		ug/L			24444	23571	1	KED
|	Ni	60	25.897	ug/L	0.541	2	86	27348	1	KED
|	Ni	62	25.724	ug/L	1.192	4	16	4454	2	KED
|	Cu	63	25.508	ug/L	0.759	2	67	80106	1	KED
|	Cu	65	25.690	ug/L	1.346	5	42	39835	3	KED
|	Zn	66	83.757	ug/L	1.000	1	67	34926	0	KED
|	Zn	67	77.185	ug/L	2.084	2	11	5496	1	KED
⌊	As	75	25.316	ug/L	0.740	2	6	5321	0	KED
	Y	89		ug/L			230853	224136	1	Standard
	Kr	83		ug/L			65	53	18	Standard
⌈>	In-1	115		ug/L			6387	6641	2	KED
|	Cd	111	25.310	ug/L	0.517	2	5	6093	0	KED
⌊	Cd	114	25.441	ug/L	0.821	3	2	14868	2	KED
⌈>	Tb	159		ug/L			540555	529839	2	Standard
⌊	Pb	208	26.424	ug/L	0.536	2	256	1163265	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:18:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	52120	2	Standard
	Cl	37		ug/L			3578521	3717556	1	Standard
⌈>	Sc	45		ug/L			476701	458766	2	Standard
|	Cr	52	5.196	ug/L	0.082	1	18596	112821	1	Standard
|	Cr	53	5.211	ug/L	0.044	0	133	11239	3	Standard
⌊	Mn	55	50.704	ug/L	1.097	2	801	1342296	0	Standard
⌈>	Ge	72		ug/L			24444	21598	1	KED
|	Ni	60	0.420	ug/L	0.011	2	86	481	3	KED
|	Ni	62	0.514	ug/L	0.098	19	16	95	16	KED
|	Cu	63	6.687	ug/L	0.128	1	67	19289	0	KED
|	Cu	65	6.865	ug/L	0.168	2	42	9788	2	KED
|	Zn	66	2.268	ug/L	0.018	0	67	924	1	KED
|	Zn	67	2.464	ug/L	0.429	17	11	170	17	KED
⌊	As	75	0.075	ug/L	0.016	21	6	20	16	KED
	Y	89		ug/L			230853	219630	1	Standard
	Kr	83		ug/L			65	49	30	Standard
⌈>	In-1	115		ug/L			6387	6088	2	KED
|	Cd	111	-0.002	ug/L	0.003	164	5	4	12	KED
⌊	Cd	114	-0.001	ug/L	0.004	253	2	1	125	KED
⌈>	Tb	159		ug/L			540555	514211	3	Standard
⌊	Pb	208	0.007	ug/L	0.001	13	256	543	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:22:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	49679	0	Standard
	Cl	37		ug/L			3578521	3628783	1	Standard
⌈>	Sc	45		ug/L			476701	449656	1	Standard
|	Cr	52	5.723	ug/L	0.097	1	18596	120038	1	Standard
|	Cr	53	5.631	ug/L	0.063	1	133	11890	0	Standard
⌊	Mn	55	39.052	ug/L	0.281	0	801	1013747	1	Standard
⌈>	Ge	72		ug/L			24444	21432	1	KED
|	Ni	60	0.419	ug/L	0.022	5	86	476	2	KED
|	Ni	62	0.373	ug/L	0.007	1	16	73	3	KED
|	Cu	63	6.740	ug/L	0.137	2	67	19299	3	KED
|	Cu	65	6.888	ug/L	0.127	1	42	9743	1	KED
|	Zn	66	2.619	ug/L	0.064	2	67	1050	1	KED
|	Zn	67	2.686	ug/L	0.213	7	11	183	5	KED
⌊	As	75	0.087	ug/L	0.030	34	6	22	25	KED
	Y	89		ug/L			230853	220785	0	Standard
	Kr	83		ug/L			65	53	21	Standard
⌈>	In-1	115		ug/L			6387	6043	2	KED
|	Cd	111	-0.004	ug/L	0.008	180	5	3	43	KED
⌊	Cd	114	0.009	ug/L	0.010	103	2	7	71	KED
⌈>	Tb	159		ug/L			540555	520913	3	Standard
⌊	Pb	208	0.006	ug/L	0.000	5	256	500	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:27:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	48101	1	Standard
	Cl	37		ug/L			3578521	3726634	1	Standard
>	Sc	45		ug/L			476701	473626	3	Standard
	Cr	52	3.205	ug/L	0.017	0	18596	78947	3	Standard
	Cr	53	3.220	ug/L	0.032	0	133	7217	2	Standard
	Mn	55	23.513	ug/L	0.521	2	801	643057	2	Standard
>	Ge	72		ug/L			24444	21959	1	KED
	Ni	60	0.282	ug/L	0.013	4	86	354	3	KED
	Ni	62	0.288	ug/L	0.115	39	16	60	28	KED
	Cu	63	4.808	ug/L	0.042	0	67	14118	1	KED
	Cu	65	4.893	ug/L	0.053	1	42	7103	1	KED
	Zn	66	1.526	ug/L	0.053	3	67	652	2	KED
	Zn	67	1.503	ug/L	0.053	3	11	109	3	KED
	As	75	0.057	ug/L	0.016	27	6	17	16	KED
	Y	89		ug/L			230853	230023	2	Standard
	Kr	83		ug/L			65	63	9	Standard
>	In-1	115		ug/L			6387	6063	0	KED
	Cd	111	-0.003	ug/L	0.014	439	5	4	74	KED
	Cd	114	0.003	ug/L	0.008	251	2	3	109	KED
>	Tb	159		ug/L			540555	538690	5	Standard
	Pb	208	0.005	ug/L	0.000	4	256	490	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:31:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	45359	1	Standard
	Cl	**37**		ug/L			3578521	3645273	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	456507	2	Standard
|	**Cr**	**52**	**10.658**	ug/L	0.237	2	18596	211542	0	Standard
|	**Cr**	**53**	**10.722**	ug/L	0.233	2	133	22865	0	Standard
⌊	**Mn**	**55**	**18.150**	ug/L	0.368	2	801	478593	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23223	0	KED
|	**Ni**	**60**	**0.231**	ug/L	0.033	14	86	321	10	KED
|	**Ni**	**62**	**0.288**	ug/L	0.049	17	16	64	13	KED
|	**Cu**	**63**	**4.304**	ug/L	0.056	1	67	13375	1	KED
|	**Cu**	**65**	**4.326**	ug/L	0.052	1	42	6646	0	KED
|	**Zn**	**66**	**1.728**	ug/L	0.105	6	67	772	5	KED
|	**Zn**	**67**	**1.558**	ug/L	0.144	9	11	120	8	KED
⌊	**As**	**75**	**0.082**	ug/L	0.020	23	6	23	17	KED
	Y	**89**		ug/L			230853	219292	1	Standard
	Kr	**83**		ug/L			65	55	29	Standard
⌈>	**In-1**	**115**		ug/L			6387	6323	3	KED
|	**Cd**	**111**	**0.000**	ug/L	0.017	83528	5	5	78	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.008	286	2	3	114	KED
⌈>	**Tb**	**159**		ug/L			540555	531283	4	Standard
⌊	**Pb**	**208**	**0.015**	ug/L	0.002	13	256	913	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-45
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:36:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	70058	0	Standard
	Cl	37		ug/L			3578521	3637459	1	Standard
>	Sc	45		ug/L			476701	635528	1	Standard
	Cr	52	17.392	ug/L	0.227	1	18596	465010	1	Standard
	Cr	53	17.623	ug/L	0.483	2	133	52208	1	Standard
	Mn	55	160.671	ug/L	2.032	1	801	5890866	0	Standard
>	Ge	72		ug/L			24444	23859	0	KED
	Ni	60	16.352	ug/L	0.237	1	86	17514	1	KED
	Ni	62	16.461	ug/L	0.326	1	16	2892	2	KED
	Cu	63	33.327	ug/L	0.431	1	67	105954	1	KED
	Cu	65	33.695	ug/L	0.413	1	42	52909	1	KED
	Zn	66	86.654	ug/L	0.617	0	67	36579	0	KED
	Zn	67	83.844	ug/L	1.749	2	11	6045	1	KED
	As	75	8.322	ug/L	0.033	0	6	1775	0	KED
	Y	89		ug/L			230853	521221	2	Standard
	Kr	83		ug/L			65	161	11	Standard
>	In-1	115		ug/L			6387	6607	1	KED
	Cd	111	0.659	ug/L	0.055	8	5	162	7	KED
	Cd	114	0.635	ug/L	0.046	7	2	371	7	KED
>	Tb	159		ug/L			540555	564800	3	Standard
	Pb	208	34.919	ug/L	1.034	2	256	1638220	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-46
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:41:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	59212	1	Standard
	Cl	**37**		ug/L			3578521	3584051	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	515810	1	Standard
|	**Cr**	**52**	**7.975**	ug/L	0.135	1	18596	183951	1	Standard
|	**Cr**	**53**	**8.019**	ug/L	0.009	0	133	19366	1	Standard
⌊	**Mn**	**55**	**95.320**	ug/L	1.296	1	801	2836800	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	24090	2	KED
|	**Ni**	**60**	**7.584**	ug/L	0.251	3	86	8243	1	KED
|	**Ni**	**62**	**7.343**	ug/L	0.132	1	16	1311	1	KED
|	**Cu**	**63**	**8.569**	ug/L	0.255	2	67	27547	1	KED
|	**Cu**	**65**	**8.679**	ug/L	0.320	3	42	13786	2	KED
|	**Zn**	**66**	**21.916**	ug/L	0.540	2	67	9389	2	KED
|	**Zn**	**67**	**21.562**	ug/L	0.469	2	11	1578	4	KED
⌊	**As**	**75**	**1.961**	ug/L	0.094	4	6	427	3	KED
	Y	**89**		ug/L			230853	373430	1	Standard
	Kr	**83**		ug/L			65	94	6	Standard
⌈>	**In-1**	**115**		ug/L			6387	6941	1	KED
|	**Cd**	**111**	**0.021**	ug/L	0.009	41	5	10	20	KED
⌊	**Cd**	**114**	**0.017**	ug/L	0.002	11	2	13	8	KED
⌈>	**Tb**	**159**		ug/L			540555	549187	3	Standard
⌊	**Pb**	**208**	**1.732**	ug/L	0.047	2	256	79268	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-47
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:45:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	63904	3	Standard
	Cl	**37**		ug/L			3578521	3613111	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	550867	2	Standard
|	**Cr**	**52**	**10.244**	ug/L	0.277	2	18596	246160	0	Standard
|	**Cr**	**53**	**10.394**	ug/L	0.194	1	133	26755	1	Standard
⌊	**Mn**	**55**	**120.380**	ug/L	2.215	1	801	3825738	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23807	1	KED
|	**Ni**	**60**	**10.450**	ug/L	0.390	3	86	11195	3	KED
|	**Ni**	**62**	**10.383**	ug/L	0.366	3	16	1826	2	KED
|	**Cu**	**63**	**14.395**	ug/L	0.288	1	67	45696	1	KED
|	**Cu**	**65**	**14.764**	ug/L	0.348	2	42	23152	2	KED
|	**Zn**	**66**	**31.439**	ug/L	0.047	0	67	13283	1	KED
|	**Zn**	**67**	**32.124**	ug/L	1.023	3	11	2317	1	KED
⌊	**As**	**75**	**3.101**	ug/L	0.137	4	6	664	4	KED
	Y	**89**		ug/L			230853	436727	1	Standard
	Kr	**83**		ug/L			65	113	8	Standard
⌈>	**In-1**	**115**		ug/L			6387	6507	3	KED
|	**Cd**	**111**	**0.060**	ug/L	0.014	23	5	19	20	KED
⌊	**Cd**	**114**	**0.066**	ug/L	0.015	23	2	39	19	KED
⌈>	**Tb**	**159**		ug/L			540555	553912	2	Standard
⌊	**Pb**	**208**	**3.949**	ug/L	0.116	2	256	181927	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:49:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34318	2	Standard
	Cl	**37**		ug/L			3578521	3409550	3	Standard
⎡>	**Sc**	**45**		ug/L			476701	432607	4	Standard
⎢	**Cr**	**52**	**0.009**	ug/L	0.018	193	18596	17031	3	Standard
⎢	**Cr**	**53**	**-0.008**	ug/L	0.005	58	133	105	12	Standard
⎣	**Mn**	**55**	**-0.005**	ug/L	0.002	37	801	601	11	Standard
⎡>	**Ge**	**72**		ug/L			24444	23146	2	KED
⎢	**Ni**	**60**	**-0.072**	ug/L	0.003	3	86	6	41	KED
⎢	**Ni**	**62**	**-0.055**	ug/L	0.006	11	16	6	17	KED
⎢	**Cu**	**63**	**-0.009**	ug/L	0.004	49	67	38	36	KED
⎢	**Cu**	**65**	**-0.010**	ug/L	0.005	50	42	25	31	KED
⎢	**Zn**	**66**	**-0.060**	ug/L	0.005	7	67	39	5	KED
⎢	**Zn**	**67**	**-0.056**	ug/L	0.055	99	11	6	56	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.002	277	6	6	7	KED
	Y	**89**		ug/L			230853	214375	3	Standard
	Kr	**83**		ug/L			65	47	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6502	0	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.004	29	5	1	50	KED
⎣	**Cd**	**114**	**-0.000**	ug/L	0.002	3546	2	2	51	KED
⎡>	**Tb**	**159**		ug/L			540555	506379	4	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.001	58	256	203	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:54:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32517	1	Standard
	Cl	**37**		ug/L			3578521	3662022	2	Standard
⎡>	**Sc**	**45**		ug/L			476701	446496	1	Standard
⎢	**Cr**	**52**	**49.851**	ug/L	0.660	1	18596	904026	2	Standard
⎢	**Cr**	**53**	**50.064**	ug/L	0.356	0	133	103994	0	Standard
⎣	**Mn**	**55**	**50.804**	ug/L	0.221	0	801	1309319	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23908	1	KED
⎢	**Ni**	**60**	**49.752**	ug/L	0.225	0	86	53223	0	KED
⎢	**Ni**	**62**	**48.525**	ug/L	0.989	2	16	8513	0	KED
⎢	**Cu**	**63**	**49.312**	ug/L	0.891	1	67	157066	2	KED
⎢	**Cu**	**65**	**49.737**	ug/L	0.837	1	42	78237	1	KED
⎢	**Zn**	**66**	**49.992**	ug/L	0.544	1	67	21175	2	KED
⎢	**Zn**	**67**	**48.552**	ug/L	1.196	2	11	3512	3	KED
⎣	**As**	**75**	**49.436**	ug/L	1.091	2	6	10538	1	KED
	Y	**89**		ug/L			230853	224268	1	Standard
	Kr	**83**		ug/L			65	50	44	Standard
⎡>	**In-1**	**115**		ug/L			6387	6358	2	KED
⎢	**Cd**	**111**	**51.283**	ug/L	1.073	2	5	11817	2	KED
⎣	**Cd**	**114**	**51.173**	ug/L	1.494	2	2	28630	2	KED
⎡>	**Tb**	**159**		ug/L			540555	530844	4	Standard
⎣	**Pb**	**208**	**50.179**	ug/L	1.775	3	256	2211516	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:01:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33265	2	Standard
	Cl	**37**		ug/L			3578521	3460889	4	Standard
⌈>	**Sc**	**45**		ug/L			476701	453529	3	Standard
|	**Cr**	**52**	**-0.014**	ug/L	0.017	118	18596	17427	2	Standard
|	**Cr**	**53**	**-0.006**	ug/L	0.004	61	133	114	9	Standard
⌊	**Mn**	**55**	**-0.003**	ug/L	0.000	18	801	695	4	Standard
⌈>	**Ge**	**72**		ug/L			24444	23194	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.010	10709	86	81	14	KED
|	**Ni**	**62**	**0.012**	ug/L	0.023	183	16	17	22	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.004	3024	67	64	20	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.006	101	42	31	27	KED
|	**Zn**	**66**	**0.013**	ug/L	0.011	83	67	69	6	KED
|	**Zn**	**67**	**-0.010**	ug/L	0.014	145	11	10	10	KED
⌊	**As**	**75**	**0.004**	ug/L	0.008	200	6	7	23	KED
	Y	**89**		ug/L			230853	220971	4	Standard
	Kr	**83**		ug/L			65	54	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6714	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.016	631	5	4	80	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.006	260	2	3	87	KED
⌈>	**Tb**	**159**		ug/L			540555	520970	4	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	221	256	240	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:06:45

DEL

WRONG SAMPLE

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	16821	75	Standard
	Cl	**37**		ug/L			3578521	1790505	63	Standard
⌈>	**Sc**	**45**		ug/L			476701	752041	100	Standard
|	**Cr**	**52**	**1.900**	ug/L	4.611	242	18596	6857	82	Standard
|	**Cr**	**53**	**0.768**	ug/L	1.396	181	133	86	42	Standard
⌊	**Mn**	**55**	**0.137**	ug/L	0.273	198	801	428	77	Standard
⌈>	**Ge**	**72**		ug/L			24444	3065	151	KED
|	**Ni**	**60**	**-0.074**	ug/L	0.009	11	86	1	173	KED
|	**Ni**	**62**	**1.496**	ug/L	1.898	126	16	5	21	KED
|	**Cu**	**63**	**-0.017**	ug/L	0.006	33	67	3	173	KED
|	**Cu**	**65**	**0.105**	ug/L	0.133	126	42	5	43	KED
|	**Zn**	**66**	**0.498**	ug/L	0.792	158	67	4	24	KED
|	**Zn**	**67**	**0.924**	ug/L	1.679	181	11	2	114	KED
⌊	**As**	**75**	**0.663**	ug/L	0.755	113	6	3	37	KED
	Y	**89**		ug/L			230853	394957	96	Standard
	Kr	**83**		ug/L			65	22	28	Standard
⌈>	**In-1**	**115**		ug/L			6387	16359	33	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.003	21	5	4	61	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.001	238	2	5	35	KED
⌈>	**Tb**	**159**		ug/L			540555	963931	94	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.001	16	256	102	87	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:12:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41079	0	Standard
	Cl	**37**		ug/L			3578521	3520747	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	464742	3	Standard
|	**Cr**	**52**	**0.201**	ug/L	0.041	20	18596	21837	2	Standard
|	**Cr**	**53**	**0.167**	ug/L	0.023	13	133	491	12	Standard
⌊	**Mn**	**55**	**0.237**	ug/L	0.001	0	801	7134	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	25501	3	KED
|	**Ni**	**60**	**-0.062**	ug/L	0.004	7	86	19	30	KED
|	**Ni**	**62**	**-0.044**	ug/L	0.023	52	16	8	44	KED
|	**Cu**	**63**	**0.016**	ug/L	0.002	9	67	126	4	KED
|	**Cu**	**65**	**0.016**	ug/L	0.009	54	42	71	24	KED
|	**Zn**	**66**	**0.268**	ug/L	0.062	23	67	190	11	KED
|	**Zn**	**67**	**0.152**	ug/L	0.131	86	11	23	41	KED
⌊	**As**	**75**	**0.005**	ug/L	0.016	298	6	8	41	KED
	Y	**89**		ug/L			230853	227722	3	Standard
	Kr	**83**		ug/L			65	51	22	Standard
⌈>	**In-1**	**115**		ug/L			6387	6664	1	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.002	17	5	2	24	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	206	2	3	78	KED
⌈>	**Tb**	**159**		ug/L			540555	530064	5	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	50	256	213	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:16:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39904	1	Standard
	Cl	**37**		ug/L			3578521	3458447	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	438870	1	Standard
|	**Cr**	**52**	**25.837**	ug/L	0.294	1	18596	468710	0	Standard
|	**Cr**	**53**	**25.575**	ug/L	0.569	2	133	52273	1	Standard
⌊	**Mn**	**55**	**26.545**	ug/L	0.560	2	801	672686	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23248	1	KED
|	**Ni**	**60**	**25.740**	ug/L	0.545	2	86	26816	2	KED
|	**Ni**	**62**	**25.194**	ug/L	0.463	1	16	4306	2	KED
|	**Cu**	**63**	**25.339**	ug/L	0.372	1	67	78501	0	KED
|	**Cu**	**65**	**25.260**	ug/L	0.417	1	42	38652	0	KED
|	**Zn**	**66**	**83.867**	ug/L	0.715	0	67	34497	1	KED
|	**Zn**	**67**	**76.190**	ug/L	2.598	3	11	5352	2	KED
⌊	**As**	**75**	**25.305**	ug/L	0.503	1	6	5247	0	KED
	Y	**89**		ug/L			230853	217213	1	Standard
	Kr	**83**		ug/L			65	52	22	Standard
⌈>	**In-1**	**115**		ug/L			6387	6373	1	KED
|	**Cd**	**111**	**25.446**	ug/L	0.445	1	5	5879	1	KED
⌊	**Cd**	**114**	**25.308**	ug/L	0.126	0	2	14197	1	KED
⌈>	**Tb**	**159**		ug/L			540555	512477	3	Standard
⌊	**Pb**	**208**	**26.331**	ug/L	1.081	4	256	1120439	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:21:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	60244	1	Standard
	Cl	**37**		ug/L			3578521	3656693	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	594488	1	Standard
|	**Cr**	**52**	**17.337**	ug/L	0.394	2	18596	433600	0	Standard
|	**Cr**	**53**	**17.472**	ug/L	0.262	1	133	48424	0	Standard
⌊	**Mn**	**55**	**134.485**	ug/L	2.769	2	801	4612397	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23792	1	KED
|	**Ni**	**60**	**13.835**	ug/L	0.453	3	86	14785	2	KED
|	**Ni**	**62**	**14.007**	ug/L	0.205	1	16	2457	2	KED
|	**Cu**	**63**	**38.392**	ug/L	0.222	0	67	121698	1	KED
|	**Cu**	**65**	**38.461**	ug/L	0.833	2	42	60204	0	KED
|	**Zn**	**66**	**86.178**	ug/L	0.125	0	67	36275	1	KED
|	**Zn**	**67**	**80.688**	ug/L	1.246	1	11	5802	2	KED
⌊	**As**	**75**	**10.154**	ug/L	0.096	0	6	2159	2	KED
	Y	**89**		ug/L			230853	460643	2	Standard
	Kr	**83**		ug/L			65	139	27	Standard
⌈>	**In-1**	**115**		ug/L			6387	6546	3	KED
|	**Cd**	**111**	**0.721**	ug/L	0.068	9	5	175	6	KED
⌊	**Cd**	**114**	**0.718**	ug/L	0.013	1	2	416	4	KED
⌈>	**Tb**	**159**		ug/L			540555	548464	2	Standard
⌊	**Pb**	**208**	**35.527**	ug/L	0.786	2	256	1618886	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:25:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			34196	56919	0	Standard
Cl	37		ug/L			3578521	3556256	1	Standard
> Sc	45		ug/L			476701	601764	2	Standard
Cr	52	16.599	ug/L	0.229	1	18596	421249	1	Standard
Cr	53	16.552	ug/L	0.285	1	133	46446	2	Standard
Mn	55	133.471	ug/L	2.197	1	801	4633196	1	Standard
> Ge	72		ug/L			24444	22860	0	KED
Ni	60	13.374	ug/L	0.223	1	86	13738	1	KED
Ni	62	13.345	ug/L	0.677	5	16	2249	4	KED
Cu	63	34.735	ug/L	0.513	1	67	105798	1	KED
Cu	65	35.323	ug/L	0.943	2	42	53134	2	KED
Zn	66	86.650	ug/L	0.283	0	67	35045	0	KED
Zn	67	82.066	ug/L	1.598	1	11	5669	1	KED
As	75	10.165	ug/L	0.128	1	6	2076	1	KED
Y	89		ug/L			230853	478052	1	Standard
Kr	83		ug/L			65	148	12	Standard
> In-1	115		ug/L			6387	6232	1	KED
Cd	111	0.488	ug/L	0.053	10	5	115	10	KED
Cd	114	0.490	ug/L	0.075	15	2	270	14	KED
> Tb	159		ug/L			540555	549101	3	Standard
Pb	208	38.274	ug/L	1.023	2	256	1745600	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:29:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			34196	63292	1	Standard
Cl	37		ug/L			3578521	3578320	2	Standard
> Sc	45		ug/L			476701	623910	2	Standard
Cr	52	14.592	ug/L	0.162	1	18596	386910	2	Standard
Cr	53	14.748	ug/L	0.305	2	133	42917	0	Standard
Mn	55	138.686	ug/L	2.155	1	801	4991891	1	Standard
> Ge	72		ug/L			24444	23056	0	KED
Ni	60	13.735	ug/L	0.256	1	86	14228	1	KED
Ni	62	13.935	ug/L	0.442	3	16	2369	3	KED
Cu	63	36.729	ug/L	0.276	0	67	112834	0	KED
Cu	65	36.835	ug/L	1.267	3	42	55888	3	KED
Zn	66	87.180	ug/L	2.546	2	67	35563	3	KED
Zn	67	82.657	ug/L	2.237	2	11	5759	2	KED
As	75	9.091	ug/L	0.111	1	6	1874	1	KED
Y	89		ug/L			230853	499088	0	Standard
Kr	83		ug/L			65	149	17	Standard
> In-1	115		ug/L			6387	6372	1	KED
Cd	111	0.520	ug/L	0.032	6	5	125	6	KED
Cd	114	0.490	ug/L	0.020	4	2	276	2	KED
> Tb	159		ug/L			540555	554006	3	Standard
Pb	208	33.375	ug/L	1.324	3	256	1535253	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:34:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	59050	2	Standard
	Cl	**37**		ug/L			3578521	3640863	0	Standard
>	**Sc**	**45**		ug/L			476701	618718	2	Standard
	Cr	**52**	**15.400**	ug/L	0.311	2	18596	403518	1	Standard
	Cr	**53**	**15.761**	ug/L	0.457	2	133	45465	1	Standard
	Mn	**55**	**139.850**	ug/L	4.418	3	801	4990014	1	Standard
>	**Ge**	**72**		ug/L			24444	23532	1	KED
	Ni	**60**	**13.510**	ug/L	0.180	1	86	14285	1	KED
	Ni	**62**	**13.871**	ug/L	0.389	2	16	2407	3	KED
	Cu	**63**	**34.436**	ug/L	0.668	1	67	107959	1	KED
	Cu	**65**	**34.980**	ug/L	0.480	1	42	54164	0	KED
	Zn	**66**	**83.494**	ug/L	1.475	1	67	34760	1	KED
	Zn	**67**	**76.965**	ug/L	1.599	2	11	5473	1	KED
	As	**75**	**8.742**	ug/L	0.335	3	6	1839	4	KED
	Y	**89**		ug/L			230853	507741	1	Standard
	Kr	**83**		ug/L			65	184	20	Standard
>	**In-1**	**115**		ug/L			6387	6429	0	KED
	Cd	**111**	**0.432**	ug/L	0.012	2	5	105	2	KED
	Cd	**114**	**0.447**	ug/L	0.038	8	2	255	8	KED
>	**Tb**	**159**		ug/L			540555	558215	3	Standard
	Pb	**208**	**35.267**	ug/L	1.067	3	256	1634976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:38:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	56543	1	Standard
	Cl	**37**		ug/L			3578521	3632245	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	587014	2	Standard
|	**Cr**	**52**	**16.797**	ug/L	0.373	2	18596	415513	0	Standard
|	**Cr**	**53**	**16.881**	ug/L	0.045	0	133	46213	2	Standard
⌊	**Mn**	**55**	**130.264**	ug/L	1.249	0	801	4411714	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23738	2	KED
|	**Ni**	**60**	**14.560**	ug/L	0.307	2	86	15522	2	KED
|	**Ni**	**62**	**14.274**	ug/L	0.524	3	16	2497	3	KED
|	**Cu**	**63**	**30.243**	ug/L	0.104	0	67	95660	1	KED
|	**Cu**	**65**	**31.315**	ug/L	0.401	1	42	48915	1	KED
|	**Zn**	**66**	**82.033**	ug/L	0.978	1	67	34451	1	KED
|	**Zn**	**67**	**76.450**	ug/L	3.827	5	11	5482	3	KED
⌊	**As**	**75**	**10.489**	ug/L	0.043	0	6	2225	1	KED
	Y	**89**		ug/L			230853	461535	0	Standard
	Kr	**83**		ug/L			65	128	0	Standard
⌈>	**In-1**	**115**		ug/L			6387	6654	2	KED
|	**Cd**	**111**	**1.720**	ug/L	0.065	3	5	419	2	KED
⌊	**Cd**	**114**	**1.865**	ug/L	0.057	3	2	1094	4	KED
⌈>	**Tb**	**159**		ug/L			540555	554053	3	Standard
⌊	**Pb**	**208**	**36.639**	ug/L	1.103	3	256	1685881	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:43:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	65154	1	Standard
	Cl	37		ug/L			3578521	3626843	1	Standard
>	Sc	45		ug/L			476701	629046	1	Standard
	Cr	52	20.117	ug/L	0.178	0	18596	528531	0	Standard
	Cr	53	20.235	ug/L	0.204	1	133	59321	0	Standard
	Mn	55	142.259	ug/L	0.858	0	801	5163724	1	Standard
>	Ge	72		ug/L			24444	23518	1	KED
	Ni	60	13.818	ug/L	0.137	0	86	14599	0	KED
	Ni	62	14.464	ug/L	0.101	0	16	2507	1	KED
	Cu	63	35.520	ug/L	0.472	1	67	111290	0	KED
	Cu	65	35.309	ug/L	0.310	0	42	54653	2	KED
	Zn	66	122.246	ug/L	2.120	1	67	50841	2	KED
	Zn	67	114.573	ug/L	2.982	2	11	8136	1	KED
	As	75	16.031	ug/L	0.085	0	6	3366	1	KED
	Y	89		ug/L			230853	503262	2	Standard
	Kr	83		ug/L			65	146	6	Standard
>	In-1	115		ug/L			6387	6335	1	KED
	Cd	111	0.538	ug/L	0.042	7	5	128	7	KED
	Cd	114	0.500	ug/L	0.073	14	2	281	15	KED
>	Tb	159		ug/L			540555	577652	2	Standard
	Pb	208	24.104	ug/L	0.455	1	256	1157040	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:47:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			34196	64618	3	Standard
Cl	37		ug/L			3578521	3633882	2	Standard
> Sc	45		ug/L			476701	632674	2	Standard
Cr	52	16.277	ug/L	0.479	2	18596	434662	0	Standard
Cr	53	16.211	ug/L	0.494	3	133	47818	1	Standard
Mn	55	138.679	ug/L	2.152	1	801	5061415	0	Standard
> Ge	72		ug/L			24444	24375	2	KED
Ni	60	14.954	ug/L	0.656	4	86	16358	2	KED
Ni	62	14.942	ug/L	1.029	6	16	2682	5	KED
Cu	63	26.292	ug/L	0.156	0	67	85399	1	KED
Cu	65	26.647	ug/L	0.260	0	42	42747	1	KED
Zn	66	138.610	ug/L	2.611	1	67	59718	1	KED
Zn	67	127.419	ug/L	2.032	1	11	9377	0	KED
As	75	17.583	ug/L	0.054	0	6	3825	2	KED
Y	89		ug/L			230853	521900	1	Standard
Kr	83		ug/L			65	155	22	Standard
> In-1	115		ug/L			6387	6306	2	KED
Cd	111	0.325	ug/L	0.047	14	5	79	14	KED
Cd	114	0.332	ug/L	0.049	14	2	186	14	KED
> Tb	159		ug/L			540555	576562	3	Standard
Pb	208	12.845	ug/L	0.398	3	256	615287	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:54:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32638	1	Standard
	Cl	**37**		ug/L			3578521	3701223	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	444103	3	Standard
⎢	**Cr**	**52**	**49.924**	ug/L	1.716	3	18596	899713	1	Standard
⎢	**Cr**	**53**	**49.732**	ug/L	1.785	3	133	102672	1	Standard
⎣	**Mn**	**55**	**50.971**	ug/L	1.393	2	801	1305748	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	23058	2	KED
⎢	**Ni**	**60**	**51.823**	ug/L	1.036	1	86	53450	1	KED
⎢	**Ni**	**62**	**49.941**	ug/L	1.151	2	16	8447	1	KED
⎢	**Cu**	**63**	**49.863**	ug/L	0.950	1	67	153141	2	KED
⎢	**Cu**	**65**	**51.087**	ug/L	0.316	0	42	77512	3	KED
⎢	**Zn**	**66**	**51.632**	ug/L	1.628	3	67	21081	2	KED
⎢	**Zn**	**67**	**50.378**	ug/L	2.106	4	11	3512	2	KED
⎣	**As**	**75**	**50.278**	ug/L	1.045	2	6	10333	0	KED
	Y	**89**		ug/L			230853	218382	0	Standard
	Kr	**83**		ug/L			65	62	10	Standard
⎡>	**In-1**	**115**		ug/L			6387	6314	2	KED
⎢	**Cd**	**111**	**48.776**	ug/L	0.388	0	5	11161	1	KED
⎣	**Cd**	**114**	**49.344**	ug/L	1.214	2	2	27415	1	KED
⎡>	**Tb**	**159**		ug/L			540555	525081	3	Standard
⎣	**Pb**	**208**	**49.848**	ug/L	1.346	2	256	2174207	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:01:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32926	5	Standard
	Cl	**37**		ug/L			3578521	3501742	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	432263	1	Standard
|	**Cr**	**52**	**0.012**	ug/L	0.020	163	18596	17078	2	Standard
|	**Cr**	**53**	**-0.003**	ug/L	0.006	166	133	113	9	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.002	200	801	704	5	Standard
⌈>	**Ge**	**72**		ug/L			24444	22126	3	KED
|	**Ni**	**60**	**0.004**	ug/L	0.002	42	86	82	1	KED
|	**Ni**	**62**	**0.025**	ug/L	0.004	15	16	19	0	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	44	67	52	11	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.006	62	42	25	35	KED
|	**Zn**	**66**	**0.052**	ug/L	0.009	17	67	81	2	KED
|	**Zn**	**67**	**0.008**	ug/L	0.049	623	11	10	26	KED
⌊	**As**	**75**	**0.007**	ug/L	0.008	111	6	7	20	KED
	Y	**89**		ug/L			230853	214650	1	Standard
	Kr	**83**		ug/L			65	48	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6124	1	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.007	55	5	1	86	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	189	2	1	205	KED
⌈>	**Tb**	**159**		ug/L			540555	503661	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	185	256	267	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:09:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				28744	1	Standard
	Cl	**37**		ug/L				3416101	0	Standard
⎡>	**Sc**	**45**		ug/L				429622	3	Standard
⎢	**Cr**	**52**		ug/L				16425	4	Standard
⎢	**Cr**	**53**		ug/L				102	7	Standard
⎣	**Mn**	**55**		ug/L				567	2	Standard
⎡>	**Ge**	**72**		ug/L				22652	1	KED
⎢	**Ni**	**60**		ug/L				20	14	KED
⎢	**Ni**	**62**		ug/L				7	43	KED
⎢	**Cu**	**63**		ug/L				30	27	KED
⎢	**Cu**	**65**		ug/L				24	16	KED
⎢	**Zn**	**66**		ug/L				40	9	KED
⎢	**Zn**	**67**		ug/L				3	50	KED
⎣	**As**	**75**		ug/L				5	28	KED
	Y	**89**		ug/L				208501	3	Standard
	Kr	**83**		ug/L				52	5	Standard
⎡>	**In-1**	**115**		ug/L				6222	2	KED
⎢	**Cd**	**111**		ug/L				2	65	KED
⎣	**Cd**	**114**		ug/L				6	56	KED
⎡>	**Tb**	**159**		ug/L				498579	3	Standard
⎣	**Pb**	**208**		ug/L				109	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:13:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29859	2	Standard
	Cl	**37**		ug/L			3416101	3661261	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	435471	0	Standard
|	**Cr**	**52**	**50.114**	ug/L	0.158	0	16425	885897	1	Standard
|	**Cr**	**53**	**49.291**	ug/L	0.496	1	102	99854	1	Standard
⌊	**Mn**	**55**	**50.383**	ug/L	0.864	1	567	1266400	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	22408	1	KED
|	**Ni**	**60**	**49.499**	ug/L	0.077	0	20	49572	0	KED
|	**Ni**	**62**	**48.829**	ug/L	0.938	1	7	8023	2	KED
|	**Cu**	**63**	**49.002**	ug/L	0.811	1	30	146247	1	KED
|	**Cu**	**65**	**49.258**	ug/L	0.800	1	24	72600	0	KED
|	**Zn**	**66**	**49.366**	ug/L	1.218	2	40	19573	1	KED
|	**Zn**	**67**	**48.417**	ug/L	1.239	2	3	3275	2	KED
⌊	**As**	**75**	**49.357**	ug/L	0.162	0	5	9861	0	KED
	Y	**89**		ug/L			208501	213698	2	Standard
	Kr	**83**		ug/L			52	64	25	Standard
⌈>	**In-1**	**115**		ug/L			6222	6210	2	KED
|	**Cd**	**111**	**49.427**	ug/L	1.386	2	2	11118	0	KED
⌊	**Cd**	**114**	**49.346**	ug/L	0.471	0	6	26977	2	KED
⌈>	**Tb**	**159**		ug/L			498579	514046	3	Standard
⌊	**Pb**	**208**	**49.918**	ug/L	1.570	3	109	2130878	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:20:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29334	2	Standard
	Cl	**37**		ug/L			3416101	3436340	1	Standard
⎡>	**Sc**	**45**		ug/L			429622	444026	1	Standard
⎢	**Cr**	**52**	**0.009**	ug/L	0.022	261	16425	17127	3	Standard
⎢	**Cr**	**53**	**-0.002**	ug/L	0.007	296	102	100	15	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.000	35	567	559	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	22579	4	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.003	24895	20	20	19	KED
⎢	**Ni**	**62**	**0.017**	ug/L	0.055	322	7	10	84	KED
⎢	**Cu**	**63**	**0.002**	ug/L	0.002	88	30	36	15	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.003	92	24	18	26	KED
⎢	**Zn**	**66**	**0.003**	ug/L	0.025	858	40	41	27	KED
⎢	**Zn**	**67**	**0.020**	ug/L	0.045	226	3	5	57	KED
⎣	**As**	**75**	**0.006**	ug/L	0.006	102	5	7	20	KED
	Y	**89**		ug/L			208501	221357	1	Standard
	Kr	**83**		ug/L			52	46	26	Standard
⎡>	**In-1**	**115**		ug/L			6222	6373	3	KED
⎢	**Cd**	**111**	**-0.002**	ug/L	0.004	271	2	1	50	KED
⎣	**Cd**	**114**	**-0.007**	ug/L	0.002	27	6	3	37	KED
⎡>	**Tb**	**159**		ug/L			498579	514436	3	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	254	109	118	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:29:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	56516	2	Standard
	Cl	37		ug/L			3416101	3553139	0	Standard
>	Sc	45		ug/L			429622	575188	3	Standard
	Cr	52	15.845	ug/L	0.536	3	16425	384713	1	Standard
	Cr	53	16.068	ug/L	0.410	2	102	43056	1	Standard
	Mn	55	125.453	ug/L	2.425	1	567	4162523	3	Standard
>	Ge	72		ug/L			22652	22372	2	KED
	Ni	60	15.044	ug/L	0.432	2	20	15051	1	KED
	Ni	62	15.287	ug/L	0.601	3	7	2512	4	KED
	Cu	63	28.458	ug/L	0.361	1	30	84797	0	KED
	Cu	65	28.531	ug/L	1.116	3	24	41976	2	KED
	Zn	66	68.994	ug/L	1.609	2	40	27293	1	KED
	Zn	67	67.023	ug/L	0.916	1	3	4525	0	KED
	As	75	7.850	ug/L	0.270	3	5	1570	1	KED
	Y	89		ug/L			208501	443638	1	Standard
	Kr	83		ug/L			52	119	22	Standard
>	In-1	115		ug/L			6222	6174	3	KED
	Cd	111	0.381	ug/L	0.021	5	2	87	2	KED
	Cd	114	0.360	ug/L	0.011	2	6	202	5	KED
>	Tb	159		ug/L			498579	538315	3	Standard
	Pb	208	23.369	ug/L	0.578	2	109	1044851	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:33:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	66731	2	Standard
Cl	37		ug/L			3416101	3687017	2	Standard
> Sc	45		ug/L			429622	599474	1	Standard
Cr	52	15.661	ug/L	0.207	1	16425	396920	3	Standard
Cr	53	15.614	ug/L	0.046	0	102	43639	2	Standard
Mn	55	131.560	ug/L	1.987	1	567	4550041	1	Standard
> Ge	72		ug/L			22652	22468	1	KED
Ni	60	15.446	ug/L	0.587	3	20	15520	3	KED
Ni	62	15.490	ug/L	0.213	1	7	2557	2	KED
Cu	63	27.634	ug/L	0.583	2	30	82700	1	KED
Cu	65	28.322	ug/L	0.858	3	24	41865	2	KED
Zn	66	69.905	ug/L	1.277	1	40	27776	1	KED
Zn	67	63.629	ug/L	1.285	2	3	4316	2	KED
As	75	7.691	ug/L	0.234	3	5	1545	2	KED
Y	89		ug/L			208501	474080	1	Standard
Kr	83		ug/L			52	147	12	Standard
> In-1	115		ug/L			6222	6146	3	KED
Cd	111	0.309	ug/L	0.030	9	2	71	11	KED
Cd	114	0.262	ug/L	0.029	10	6	148	10	KED
> Tb	159		ug/L			498579	568919	3	Standard
Pb	208	23.536	ug/L	1.045	4	109	1111642	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:38:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49621	3	Standard
	Cl	37		ug/L			3416101	3573766	2	Standard
>	Sc	45		ug/L			429622	605872	0	Standard
	Cr	52	37.753	ug/L	0.366	0	16425	934225	1	Standard
	Cr	53	38.300	ug/L	0.526	1	102	107979	1	Standard
	Mn	55	151.129	ug/L	3.838	2	567	5283429	2	Standard
>	Ge	72		ug/L			22652	23482	2	KED
	Ni	60	42.936	ug/L	0.663	1	20	45072	3	KED
	Ni	62	40.852	ug/L	0.468	1	7	7034	2	KED
	Cu	63	53.652	ug/L	1.545	2	30	167737	0	KED
	Cu	65	53.211	ug/L	0.716	1	24	82181	1	KED
	Zn	66	149.858	ug/L	1.793	1	40	62182	1	KED
	Zn	67	141.073	ug/L	2.418	1	3	9993	0	KED
	As	75	32.212	ug/L	0.648	2	5	6745	1	KED
	Y	89		ug/L			208501	480323	1	Standard
	Kr	83		ug/L			52	147	8	Standard
>	In-1	115		ug/L			6222	6528	3	KED
	Cd	111	25.322	ug/L	0.788	3	2	5987	0	KED
	Cd	114	25.581	ug/L	0.542	2	6	14699	1	KED
>	Tb	159		ug/L			498579	562590	3	Standard
	Pb	208	52.086	ug/L	1.736	3	109	2433264	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:42:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	51210	2	Standard
Cl	37		ug/L			3416101	3553843	2	Standard
> Sc	45		ug/L			429622	572917	0	Standard
Cr	52	36.222	ug/L	0.135	0	16425	848456	0	Standard
Cr	53	35.920	ug/L	0.617	1	102	95764	1	Standard
Mn	55	146.009	ug/L	3.613	2	567	4825927	1	Standard
> Ge	72		ug/L			22652	22850	0	KED
Ni	60	41.240	ug/L	0.070	0	20	42118	0	KED
Ni	62	40.282	ug/L	0.358	0	7	6750	1	KED
Cu	63	52.781	ug/L	0.999	1	30	160615	1	KED
Cu	65	52.457	ug/L	0.655	1	24	78841	0	KED
Zn	66	144.558	ug/L	5.010	3	40	58366	2	KED
Zn	67	134.641	ug/L	2.230	1	3	9283	1	KED
As	75	32.365	ug/L	0.123	0	5	6595	0	KED
Y	89		ug/L			208501	441470	1	Standard
Kr	83		ug/L			52	144	9	Standard
> In-1	115		ug/L			6222	6163	1	KED
Cd	111	25.041	ug/L	0.665	2	2	5592	1	KED
Cd	114	25.434	ug/L	0.431	1	6	13801	0	KED
> Tb	159		ug/L			498579	528633	1	Standard
Pb	208	45.923	ug/L	0.635	1	109	2017204	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:47:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	62256	1	Standard
	Cl	**37**		ug/L			3416101	3593992	1	Standard
>	**Sc**	**45**		ug/L			429622	604297	1	Standard
	Cr	**52**	**35.146**	ug/L	0.497	1	16425	868970	0	Standard
	Cr	**53**	**34.853**	ug/L	0.689	1	102	98000	0	Standard
	Mn	**55**	**145.248**	ug/L	3.608	2	567	5063387	1	Standard
>	**Ge**	**72**		ug/L			22652	22724	0	KED
	Ni	**60**	**39.759**	ug/L	0.861	2	20	40380	1	KED
	Ni	**62**	**39.478**	ug/L	0.441	1	7	6578	0	KED
	Cu	**63**	**53.091**	ug/L	0.912	1	30	160675	1	KED
	Cu	**65**	**52.275**	ug/L	0.887	1	24	78136	1	KED
	Zn	**66**	**143.214**	ug/L	4.054	2	40	57509	2	KED
	Zn	**67**	**134.466**	ug/L	1.527	1	3	9220	0	KED
	As	**75**	**31.882**	ug/L	0.181	0	5	6461	0	KED
	Y	**89**		ug/L			208501	460324	3	Standard
	Kr	**83**		ug/L			52	155	12	Standard
>	**In-1**	**115**		ug/L			6222	6167	2	KED
	Cd	**111**	**24.963**	ug/L	0.560	2	2	5577	0	KED
	Cd	**114**	**25.236**	ug/L	0.413	1	6	13700	0	KED
>	**Tb**	**159**		ug/L			498579	559426	2	Standard
	Pb	**208**	**46.822**	ug/L	1.181	2	109	2175996	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:53:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	45749	1	Standard
Cl	37		ug/L			3416101	3498496	0	Standard
> Sc	45		ug/L			429622	651206	3	Standard
Cr	52	18.755	ug/L	0.271	1	16425	511211	2	Standard
Cr	53	18.982	ug/L	0.326	1	102	57575	2	Standard
Mn	55	240.141	ug/L	7.543	3	567	9016365	1	Standard
> Ge	72		ug/L			22652	22764	1	KED
Ni	60	18.758	ug/L	0.351	1	20	19093	0	KED
Ni	62	18.914	ug/L	0.488	2	7	3160	2	KED
Cu	63	125.257	ug/L	1.724	1	30	379693	1	KED
Cu	65	124.296	ug/L	1.123	0	24	186099	2	KED
Zn	66	156.708	ug/L	4.505	2	40	63026	2	KED
Zn	67	146.245	ug/L	4.366	2	3	10042	1	KED
As	75	3.481	ug/L	0.084	2	5	711	0	KED
Y	89		ug/L			208501	562581	0	Standard
Kr	83		ug/L			52	188	10	Standard
> In-1	115		ug/L			6222	6563	1	KED
Cd	111	0.279	ug/L	0.008	2	2	68	2	KED
Cd	114	0.244	ug/L	0.050	20	6	148	18	KED
> Tb	159		ug/L			498579	560464	4	Standard
Pb	208	46.637	ug/L	1.465	3	109	2170223	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:57:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	40393	0	Standard
Cl	37		ug/L			3416101	3485697	1	Standard
> Sc	45		ug/L			429622	622694	3	Standard
Cr	52	12.029	ug/L	0.336	2	16425	321953	0	Standard
Cr	53	12.127	ug/L	0.204	1	102	35226	1	Standard
Mn	55	175.195	ug/L	2.895	1	567	6291969	1	Standard
> Ge	72		ug/L			22652	22202	1	KED
Ni	60	19.391	ug/L	0.629	3	20	19250	2	KED
Ni	62	19.390	ug/L	0.707	3	7	3160	3	KED
Cu	63	20.741	ug/L	0.344	1	30	61341	0	KED
Cu	65	20.499	ug/L	0.671	3	24	29943	2	KED
Zn	66	50.672	ug/L	0.477	0	40	19908	1	KED
Zn	67	56.914	ug/L	2.087	3	3	3814	3	KED
As	75	2.726	ug/L	0.144	5	5	544	4	KED
Y	89		ug/L			208501	544333	4	Standard
Kr	83		ug/L			52	180	8	Standard
> In-1	115		ug/L			6222	6420	3	KED
Cd	111	0.060	ug/L	0.009	15	2	16	15	KED
Cd	114	0.068	ug/L	0.002	3	6	45	2	KED
> Tb	159		ug/L			498579	564914	4	Standard
Pb	208	5.801	ug/L	0.211	3	109	272205	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:01:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	38378	4	Standard
	Cl	37		ug/L			3416101	3497347	0	Standard
>	Sc	45		ug/L			429622	587945	5	Standard
	Cr	52	11.106	ug/L	0.145	1	16425	282483	4	Standard
	Cr	53	11.278	ug/L	0.136	1	102	30945	4	Standard
	Mn	55	184.428	ug/L	1.446	0	567	6255542	4	Standard
>	Ge	72		ug/L			22652	23117	1	KED
	Ni	60	19.800	ug/L	0.357	1	20	20466	0	KED
	Ni	62	18.886	ug/L	0.325	1	7	3205	1	KED
	Cu	63	14.566	ug/L	0.200	1	30	44865	0	KED
	Cu	65	14.840	ug/L	0.327	2	24	22582	1	KED
	Zn	66	42.893	ug/L	0.275	0	40	17552	0	KED
	Zn	67	47.729	ug/L	1.499	3	3	3331	3	KED
	As	75	1.773	ug/L	0.138	7	5	371	6	KED
	Y	89		ug/L			208501	507399	5	Standard
	Kr	83		ug/L			52	130	4	Standard
>	In-1	115		ug/L			6222	6403	1	KED
	Cd	111	0.033	ug/L	0.005	14	2	9	11	KED
	Cd	114	0.036	ug/L	0.014	38	6	27	26	KED
>	Tb	159		ug/L			498579	554384	7	Standard
	Pb	208	2.503	ug/L	0.143	5	109	115104	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:06:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	38069	0	Standard
Cl	37		ug/L			3416101	3499645	1	Standard
> Sc	45		ug/L			429622	587504	0	Standard
Cr	52	10.627	ug/L	0.165	1	16425	271110	0	Standard
Cr	53	10.796	ug/L	0.062	0	102	29614	1	Standard
Mn	55	193.924	ug/L	1.395	0	567	6573200	0	Standard
> Ge	72		ug/L			22652	23355	1	KED
Ni	60	17.849	ug/L	0.903	5	20	18638	4	KED
Ni	62	17.934	ug/L	1.118	6	7	3073	4	KED
Cu	63	15.555	ug/L	0.558	3	30	48397	2	KED
Cu	65	15.709	ug/L	0.420	2	24	24146	1	KED
Zn	66	41.452	ug/L	1.634	3	40	17132	2	KED
Zn	67	49.096	ug/L	1.766	3	3	3461	2	KED
As	75	1.882	ug/L	0.019	1	5	397	2	KED
Y	89		ug/L			208501	516913	1	Standard
Kr	83		ug/L			52	130	16	Standard
> In-1	115		ug/L			6222	6347	0	KED
Cd	111	0.058	ug/L	0.023	39	2	15	33	KED
Cd	114	0.030	ug/L	0.012	39	6	23	27	KED
> Tb	159		ug/L			498579	547977	2	Standard
Pb	208	2.582	ug/L	0.092	3	109	117635	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:10:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	38499	0	Standard
Cl	37		ug/L			3416101	3436714	2	Standard
> Sc	45		ug/L			429622	590895	2	Standard
Cr	52	15.120	ug/L	0.334	2	16425	378345	1	Standard
Cr	53	15.430	ug/L	0.338	2	102	42491	0	Standard
Mn	55	205.866	ug/L	6.296	3	567	7014591	0	Standard
> Ge	72		ug/L			22652	22189	1	KED
Ni	60	22.496	ug/L	0.436	1	20	22319	2	KED
Ni	62	22.373	ug/L	0.156	0	7	3643	0	KED
Cu	63	18.515	ug/L	0.284	1	30	54732	0	KED
Cu	65	19.133	ug/L	0.416	2	24	27941	2	KED
Zn	66	44.452	ug/L	0.524	1	40	17460	2	KED
Zn	67	51.710	ug/L	1.353	2	3	3465	3	KED
As	75	2.303	ug/L	0.131	5	5	460	5	KED
Y	89		ug/L			208501	595323	0	Standard
Kr	83		ug/L			52	174	9	Standard
> In-1	115		ug/L			6222	6152	1	KED
Cd	111	0.066	ug/L	0.004	5	2	16	3	KED
Cd	114	0.053	ug/L	0.008	14	6	35	9	KED
> Tb	159		ug/L			498579	541074	2	Standard
Pb	208	2.982	ug/L	0.051	1	109	134137	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 21:17:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31168	4	Standard
	Cl	**37**		ug/L			3416101	3666992	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	434741	1	Standard
⎢	**Cr**	**52**	**49.633**	ug/L	0.354	0	16425	876078	1	Standard
⎢	**Cr**	**53**	**48.647**	ug/L	0.128	0	102	98379	0	Standard
⎣	**Mn**	**55**	**50.118**	ug/L	0.284	0	567	1257482	0	Standard
⎡>	**Ge**	**72**		ug/L			22652	21515	0	KED
⎢	**Ni**	**60**	**50.869**	ug/L	1.612	3	20	48910	2	KED
⎢	**Ni**	**62**	**49.716**	ug/L	0.488	0	7	7842	0	KED
⎢	**Cu**	**63**	**49.663**	ug/L	0.771	1	30	142306	1	KED
⎢	**Cu**	**65**	**50.203**	ug/L	0.431	0	24	71050	0	KED
⎢	**Zn**	**66**	**50.312**	ug/L	1.544	3	40	19152	2	KED
⎢	**Zn**	**67**	**50.148**	ug/L	1.547	3	3	3257	2	KED
⎣	**As**	**75**	**50.676**	ug/L	1.209	2	5	9721	2	KED
	Y	**89**		ug/L			208501	214811	0	Standard
	Kr	**83**		ug/L			52	42	2	Standard
⎡>	**In-1**	**115**		ug/L			6222	5999	0	KED
⎢	**Cd**	**111**	**50.210**	ug/L	1.210	2	2	10913	1	KED
⎣	**Cd**	**114**	**49.810**	ug/L	0.928	1	6	26302	1	KED
⎡>	**Tb**	**159**		ug/L			498579	506574	4	Standard
⎣	**Pb**	**208**	**50.439**	ug/L	1.660	3	109	2121582	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 21:24:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	28231	2	Standard
	Cl	**37**		ug/L			3416101	3328721	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	425027	1	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.013	172	16425	16378	2	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.001	7	102	85	2	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	60	567	630	6	Standard
⌈>	**Ge**	**72**		ug/L			22652	21828	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	54	20	13	20	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.013	526	7	6	31	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	73	30	39	18	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.005	91	24	15	45	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.017	81	40	31	23	KED
|	**Zn**	**67**	**0.050**	ug/L	0.043	86	3	6	41	KED
⌊	**As**	**75**	**0.003**	ug/L	0.009	333	5	6	27	KED
	Y	**89**		ug/L			208501	214115	4	Standard
	Kr	**83**		ug/L			52	46	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	6043	3	KED
|	**Cd**	**111**	**0.009**	ug/L	0.007	80	2	4	35	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	31	6	3	36	KED
⌈>	**Tb**	**159**		ug/L			498579	492267	4	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	84	109	121	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 21:30:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32769	3	Standard
	Cl	**37**		ug/L			3416101	3360007	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460983	0	Standard
|	**Cr**	**52**	**1.583**	ug/L	0.060	3	16425	46696	2	Standard
|	**Cr**	**53**	**1.632**	ug/L	0.026	1	102	3606	1	Standard
⌊	**Mn**	**55**	**42.753**	ug/L	1.270	2	567	1137555	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	22965	0	KED
|	**Ni**	**60**	**1.333**	ug/L	0.025	1	20	1388	1	KED
|	**Ni**	**62**	**1.267**	ug/L	0.140	11	7	220	11	KED
|	**Cu**	**63**	**14.384**	ug/L	0.366	2	30	44016	2	KED
|	**Cu**	**65**	**14.049**	ug/L	0.360	2	24	21239	2	KED
|	**Zn**	**66**	**15.638**	ug/L	0.369	2	40	6383	1	KED
|	**Zn**	**67**	**14.604**	ug/L	1.019	6	3	1015	6	KED
⌊	**As**	**75**	**0.432**	ug/L	0.040	9	5	94	8	KED
	Y	**89**		ug/L			208501	244204	1	Standard
	Kr	**83**		ug/L			52	57	10	Standard
⌈>	**In-1**	**115**		ug/L			6222	6214	2	KED
|	**Cd**	**111**	**0.030**	ug/L	0.014	46	2	8	32	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.007	74	6	12	33	KED
⌈>	**Tb**	**159**		ug/L			498579	522653	1	Standard
⌊	**Pb**	**208**	**1.706**	ug/L	0.047	2	109	74177	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-25
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:35:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36950	4	Standard
	Cl	**37**		ug/L			3416101	3348458	4	Standard
⌈>	**Sc**	**45**		ug/L			429622	510986	7	Standard
|	**Cr**	**52**	**6.947**	ug/L	0.043	0	16425	160957	7	Standard
|	**Cr**	**53**	**7.168**	ug/L	0.192	2	102	17133	6	Standard
⌊	**Mn**	**55**	**178.843**	ug/L	4.747	2	567	5272051	7	Standard
⌈>	**Ge**	**72**		ug/L			22652	23785	0	KED
|	**Ni**	**60**	**6.559**	ug/L	0.122	1	20	6990	1	KED
|	**Ni**	**62**	**6.405**	ug/L	0.201	3	7	1123	3	KED
|	**Cu**	**63**	**67.232**	ug/L	0.661	0	30	212973	0	KED
|	**Cu**	**65**	**68.661**	ug/L	0.726	1	24	107421	1	KED
|	**Zn**	**66**	**72.988**	ug/L	1.411	1	40	30702	2	KED
|	**Zn**	**67**	**68.701**	ug/L	0.862	1	3	4932	1	KED
⌊	**As**	**75**	**2.125**	ug/L	0.044	2	5	456	2	KED
	Y	**89**		ug/L			208501	341924	8	Standard
	Kr	**83**		ug/L			52	93	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6622	0	KED
|	**Cd**	**111**	**0.084**	ug/L	0.013	16	2	22	14	KED
⌊	**Cd**	**114**	**0.074**	ug/L	0.021	27	6	50	23	KED
⌈>	**Tb**	**159**		ug/L			498579	513382	4	Standard
⌊	**Pb**	**208**	**8.266**	ug/L	0.131	1	109	352917	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:43:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36621	5	Standard
	Cl	**37**		ug/L			3416101	3415109	4	Standard
⌈>	**Sc**	**45**		ug/L			429622	512853	0	Standard
|	**Cr**	**52**	**7.818**	ug/L	0.090	1	16425	179309	1	Standard
|	**Cr**	**53**	**7.839**	ug/L	0.067	0	102	18804	0	Standard
⌊	**Mn**	**55**	**178.327**	ug/L	0.620	0	567	5276760	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22261	1	KED
|	**Ni**	**60**	**7.337**	ug/L	0.237	3	20	7318	4	KED
|	**Ni**	**62**	**7.469**	ug/L	0.418	5	7	1224	4	KED
|	**Cu**	**63**	**69.282**	ug/L	1.307	1	30	205405	2	KED
|	**Cu**	**65**	**69.871**	ug/L	1.987	2	24	102322	3	KED
|	**Zn**	**66**	**72.792**	ug/L	2.608	3	40	28649	2	KED
|	**Zn**	**67**	**69.269**	ug/L	2.416	3	3	4653	2	KED
⌊	**As**	**75**	**2.067**	ug/L	0.092	4	5	415	3	KED
	Y	**89**		ug/L			208501	351106	2	Standard
	Kr	**83**		ug/L			52	85	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	6056	2	KED
|	**Cd**	**111**	**0.110**	ug/L	0.017	15	2	26	12	KED
⌊	**Cd**	**114**	**0.092**	ug/L	0.007	7	6	55	9	KED
⌈>	**Tb**	**159**		ug/L			498579	515225	2	Standard
⌊	**Pb**	**208**	**8.991**	ug/L	0.195	2	109	384911	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:47:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	37342	0	Standard
	Cl	37		ug/L			3416101	3421286	1	Standard
>	Sc	45		ug/L			429622	545832	2	Standard
	Cr	52	16.844	ug/L	0.214	1	16425	387035	2	Standard
	Cr	53	17.296	ug/L	0.400	2	102	44008	4	Standard
	Mn	55	188.393	ug/L	2.013	1	567	5932891	2	Standard
>	Ge	72		ug/L			22652	23435	1	KED
	Ni	60	18.073	ug/L	0.295	1	20	18939	0	KED
	Ni	62	17.883	ug/L	0.504	2	7	3078	4	KED
	Cu	63	94.704	ug/L	0.501	0	30	295568	1	KED
	Cu	65	93.552	ug/L	1.277	1	24	144177	0	KED
	Zn	66	113.829	ug/L	1.122	0	40	47157	2	KED
	Zn	67	106.321	ug/L	1.945	1	3	7518	0	KED
	As	75	11.912	ug/L	0.292	2	5	2493	2	KED
	Y	89		ug/L			208501	378246	2	Standard
	Kr	83		ug/L			52	108	29	Standard
>	In-1	115		ug/L			6222	6483	1	KED
	Cd	111	10.808	ug/L	0.116	1	2	2540	1	KED
	Cd	114	10.789	ug/L	0.238	2	6	6163	2	KED
>	Tb	159		ug/L			498579	536548	4	Standard
	Pb	208	19.974	ug/L	0.587	2	109	889971	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:52:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35329	2	Standard
	Cl	**37**		ug/L			3416101	3495278	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	522864	1	Standard
|	**Cr**	**52**	**16.917**	ug/L	0.371	2	16425	372252	0	Standard
|	**Cr**	**53**	**16.807**	ug/L	0.219	1	102	40957	0	Standard
⌊	**Mn**	**55**	**238.098**	ug/L	1.706	0	567	7182666	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22411	0	KED
|	**Ni**	**60**	**18.652**	ug/L	0.610	3	20	18692	2	KED
|	**Ni**	**62**	**18.196**	ug/L	0.861	4	7	2993	3	KED
|	**Cu**	**63**	**82.278**	ug/L	0.226	0	30	245569	0	KED
|	**Cu**	**65**	**83.327**	ug/L	1.156	1	24	122823	1	KED
|	**Zn**	**66**	**110.875**	ug/L	0.742	0	40	43923	1	KED
|	**Zn**	**67**	**102.047**	ug/L	1.523	1	3	6901	0	KED
⌊	**As**	**75**	**11.943**	ug/L	0.416	3	5	2390	3	KED
	Y	**89**		ug/L			208501	358541	2	Standard
	Kr	**83**		ug/L			52	104	18	Standard
⌈>	**In-1**	**115**		ug/L			6222	6163	2	KED
|	**Cd**	**111**	**10.573**	ug/L	0.308	2	2	2363	3	KED
⌊	**Cd**	**114**	**10.864**	ug/L	0.378	3	6	5898	2	KED
⌈>	**Tb**	**159**		ug/L			498579	520646	3	Standard
⌊	**Pb**	**208**	**19.540**	ug/L	0.709	3	109	844780	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:56:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	37694	0	Standard
	Cl	**37**		ug/L			3416101	3351546	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	501226	0	Standard
|	**Cr**	**52**	**29.835**	ug/L	0.469	1	16425	614753	0	Standard
|	**Cr**	**53**	**30.188**	ug/L	0.539	1	102	70427	1	Standard
⌊	**Mn**	**55**	**207.563**	ug/L	3.241	1	567	6002068	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22603	1	KED
|	**Ni**	**60**	**32.510**	ug/L	0.503	1	20	32844	0	KED
|	**Ni**	**62**	**32.863**	ug/L	1.409	4	7	5446	2	KED
|	**Cu**	**63**	**95.182**	ug/L	0.392	0	30	286536	2	KED
|	**Cu**	**65**	**96.112**	ug/L	0.528	0	24	142877	1	KED
|	**Zn**	**66**	**157.316**	ug/L	1.130	0	40	62835	1	KED
|	**Zn**	**67**	**149.266**	ug/L	4.233	2	3	10177	1	KED
⌊	**As**	**75**	**27.545**	ug/L	0.331	1	5	5553	1	KED
	Y	**89**		ug/L			208501	344555	2	Standard
	Kr	**83**		ug/L			52	106	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6294	1	KED
|	**Cd**	**111**	**25.870**	ug/L	0.585	2	2	5900	1	KED
⌊	**Cd**	**114**	**26.669**	ug/L	0.790	2	6	14777	1	KED
⌈>	**Tb**	**159**		ug/L			498579	516235	2	Standard
⌊	**Pb**	**208**	**34.752**	ug/L	0.928	2	109	1490377	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:01:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	38446	2	Standard
Cl	37		ug/L			3416101	3480483	1	Standard
> Sc	45		ug/L			429622	652384	1	Standard
Cr	52	17.095	ug/L	0.249	1	16425	469094	0	Standard
Cr	53	17.086	ug/L	0.463	2	102	51957	3	Standard
Mn	55	193.596	ug/L	2.404	1	567	7286013	0	Standard
> Ge	72		ug/L			22652	22245	0	KED
Ni	60	19.278	ug/L	0.200	1	20	19178	1	KED
Ni	62	19.381	ug/L	0.597	3	7	3165	3	KED
Cu	63	20.587	ug/L	0.358	1	30	61012	1	KED
Cu	65	21.248	ug/L	0.326	1	24	31104	1	KED
Zn	66	45.102	ug/L	0.757	1	40	17758	1	KED
Zn	67	52.733	ug/L	1.076	2	3	3542	2	KED
As	75	2.549	ug/L	0.049	1	5	510	1	KED
Y	89		ug/L			208501	557040	2	Standard
Kr	83		ug/L			52	171	10	Standard
> In-1	115		ug/L			6222	6171	1	KED
Cd	111	0.065	ug/L	0.012	19	2	16	17	KED
Cd	114	0.066	ug/L	0.027	41	6	42	33	KED
> Tb	159		ug/L			498579	529246	2	Standard
Pb	208	3.695	ug/L	0.059	1	109	162599	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:05:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	42791	2	Standard
	Cl	37		ug/L			3416101	3466894	4	Standard
>	Sc	45		ug/L			429622	650540	1	Standard
	Cr	52	15.716	ug/L	0.190	1	16425	432050	1	Standard
	Cr	53	15.968	ug/L	0.243	1	102	48416	0	Standard
	Mn	55	184.105	ug/L	1.087	0	567	6909882	1	Standard
>	Ge	72		ug/L			22652	21567	1	KED
	Ni	60	20.114	ug/L	0.322	1	20	19396	0	KED
	Ni	62	19.687	ug/L	0.170	0	7	3117	0	KED
	Cu	63	22.237	ug/L	0.274	1	30	63899	2	KED
	Cu	65	22.166	ug/L	0.219	0	24	31458	0	KED
	Zn	66	47.707	ug/L	1.217	2	40	18209	2	KED
	Zn	67	55.199	ug/L	0.943	1	3	3594	2	KED
	As	75	2.320	ug/L	0.019	0	5	451	0	KED
	Y	89		ug/L			208501	565908	2	Standard
	Kr	83		ug/L			52	193	12	Standard
>	In-1	115		ug/L			6222	5930	1	KED
	Cd	111	0.069	ug/L	0.022	32	2	16	26	KED
	Cd	114	0.067	ug/L	0.014	21	6	41	16	KED
>	Tb	159		ug/L			498579	532526	3	Standard
	Pb	208	3.611	ug/L	0.105	2	109	159795	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:10:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46762	2	Standard
	Cl	37		ug/L			3416101	3514699	3	Standard
>	Sc	45		ug/L			429622	657737	1	Standard
	Cr	52	15.292	ug/L	0.230	1	16425	425747	1	Standard
	Cr	53	15.671	ug/L	0.664	4	102	48032	2	Standard
	Mn	55	162.071	ug/L	3.855	2	567	6149178	1	Standard
>	Ge	72		ug/L			22652	22750	3	KED
	Ni	60	14.946	ug/L	0.272	1	20	15204	1	KED
	Ni	62	14.794	ug/L	0.156	1	7	2472	2	KED
	Cu	63	17.092	ug/L	0.581	3	30	51776	2	KED
	Cu	65	16.919	ug/L	0.602	3	24	25325	3	KED
	Zn	66	38.504	ug/L	0.217	0	40	15512	3	KED
	Zn	67	46.345	ug/L	1.745	3	3	3181	0	KED
	As	75	2.334	ug/L	0.152	6	5	478	3	KED
	Y	89		ug/L			208501	570365	2	Standard
	Kr	83		ug/L			52	186	16	Standard
>	In-1	115		ug/L			6222	6281	0	KED
	Cd	111	0.054	ug/L	0.013	23	2	14	19	KED
	Cd	114	0.063	ug/L	0.013	21	6	41	17	KED
>	Tb	159		ug/L			498579	548942	2	Standard
	Pb	208	3.450	ug/L	0.034	0	109	157495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:14:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49197	4	Standard
	Cl	37		ug/L			3416101	3536734	0	Standard
>	Sc	45		ug/L			429622	736691	2	Standard
	Cr	52	16.899	ug/L	0.162	0	16425	523984	1	Standard
	Cr	53	17.048	ug/L	0.037	0	102	58537	2	Standard
	Mn	55	148.796	ug/L	3.862	2	567	6322531	0	Standard
>	Ge	72		ug/L			22652	22423	0	KED
	Ni	60	17.273	ug/L	0.087	0	20	17322	0	KED
	Ni	62	16.912	ug/L	0.384	2	7	2785	2	KED
	Cu	63	21.968	ug/L	0.559	2	30	65620	1	KED
	Cu	65	22.166	ug/L	0.325	1	24	32709	1	KED
	Zn	66	52.695	ug/L	1.145	2	40	20906	1	KED
	Zn	67	56.418	ug/L	2.065	3	3	3820	4	KED
	As	75	2.308	ug/L	0.110	4	5	466	5	KED
	Y	89		ug/L			208501	650855	2	Standard
	Kr	83		ug/L			52	234	6	Standard
>	In-1	115		ug/L			6222	6018	1	KED
	Cd	111	0.083	ug/L	0.010	12	2	20	11	KED
	Cd	114	0.071	ug/L	0.031	43	6	43	35	KED
>	Tb	159		ug/L			498579	558397	3	Standard
	Pb	208	4.136	ug/L	0.144	3	109	191889	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 22:21:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31157	2	Standard
	Cl	**37**		ug/L			3416101	3618929	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	420383	1	Standard
⎢	**Cr**	**52**	**50.546**	ug/L	0.344	0	16425	862360	1	Standard
⎢	**Cr**	**53**	**50.605**	ug/L	0.635	1	102	98943	0	Standard
⎣	**Mn**	**55**	**51.822**	ug/L	0.433	0	567	1257198	0	Standard
⎡>	**Ge**	**72**		ug/L			22652	21487	0	KED
⎢	**Ni**	**60**	**49.839**	ug/L	0.606	1	20	47863	1	KED
⎢	**Ni**	**62**	**50.795**	ug/L	0.424	0	7	8002	1	KED
⎢	**Cu**	**63**	**50.219**	ug/L	1.292	2	30	143718	2	KED
⎢	**Cu**	**65**	**50.642**	ug/L	0.674	1	24	71577	0	KED
⎢	**Zn**	**66**	**50.420**	ug/L	0.518	1	40	19170	0	KED
⎢	**Zn**	**67**	**49.883**	ug/L	1.347	2	3	3236	2	KED
⎣	**As**	**75**	**49.815**	ug/L	0.436	0	5	9543	0	KED
	Y	**89**		ug/L			208501	206034	1	Standard
	Kr	**83**		ug/L			52	57	17	Standard
⎡>	**In-1**	**115**		ug/L			6222	5930	3	KED
⎢	**Cd**	**111**	**51.069**	ug/L	1.784	3	2	10963	0	KED
⎣	**Cd**	**114**	**51.210**	ug/L	1.494	2	6	26715	1	KED
⎡>	**Tb**	**159**		ug/L			498579	492587	3	Standard
⎣	**Pb**	**208**	**52.062**	ug/L	1.589	3	109	2129489	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 22:29:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	28002	1	Standard
	Cl	**37**		ug/L			3416101	3314931	1	Standard
⎡>	**Sc**	**45**		ug/L			429622	398335	1	Standard
⎢	**Cr**	**52**	**0.028**	ug/L	0.003	9	16425	15674	2	Standard
⎢	**Cr**	**53**	**-0.001**	ug/L	0.004	389	102	93	7	Standard
⎣	**Mn**	**55**	**0.002**	ug/L	0.001	33	567	571	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	21763	3	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.009	361	20	17	48	KED
⎢	**Ni**	**62**	**-0.026**	ug/L	0.019	71	7	3	91	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.005	158	30	38	39	KED
⎢	**Cu**	**65**	**-0.006**	ug/L	0.000	5	24	15	0	KED
⎢	**Zn**	**66**	**-0.001**	ug/L	0.040	3843	40	38	40	KED
⎢	**Zn**	**67**	**0.052**	ug/L	0.047	91	3	6	41	KED
⎣	**As**	**75**	**0.007**	ug/L	0.007	107	5	6	20	KED
	Y	**89**		ug/L			208501	197792	1	Standard
	Kr	**83**		ug/L			52	36	19	Standard
⎡>	**In-1**	**115**		ug/L			6222	5775	2	KED
⎢	**Cd**	**111**	**0.011**	ug/L	0.010	84	2	4	44	KED
⎣	**Cd**	**114**	**-0.005**	ug/L	0.007	122	6	3	89	KED
⎡>	**Tb**	**159**		ug/L			498579	467450	3	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	90	109	118	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 22:33:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32522	2	Standard
	Cl	**37**		ug/L			3416101	3288169	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	434060	3	Standard
|	**Cr**	**52**	**2.227**	ug/L	0.006	0	16425	55098	3	Standard
|	**Cr**	**53**	**2.306**	ug/L	0.045	1	102	4753	1	Standard
⌊	**Mn**	**55**	**28.582**	ug/L	0.336	1	567	716090	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21449	0	KED
|	**Ni**	**60**	**1.817**	ug/L	0.047	2	20	1760	1	KED
|	**Ni**	**62**	**1.688**	ug/L	0.120	7	7	272	6	KED
|	**Cu**	**63**	**7.117**	ug/L	0.053	0	30	20357	1	KED
|	**Cu**	**65**	**6.974**	ug/L	0.091	1	24	9858	0	KED
|	**Zn**	**66**	**16.720**	ug/L	0.258	1	40	6371	0	KED
|	**Zn**	**67**	**15.287**	ug/L	0.614	4	3	992	3	KED
⌊	**As**	**75**	**0.342**	ug/L	0.036	10	5	70	8	KED
	Y	**89**		ug/L			208501	231742	0	Standard
	Kr	**83**		ug/L			52	55	15	Standard
⌈>	**In-1**	**115**		ug/L			6222	5879	2	KED
|	**Cd**	**111**	**0.037**	ug/L	0.026	68	2	10	56	KED
⌊	**Cd**	**114**	**0.019**	ug/L	0.017	92	6	16	55	KED
⌈>	**Tb**	**159**		ug/L			498579	487241	4	Standard
⌊	**Pb**	**208**	**4.696**	ug/L	0.134	2	109	190102	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-02
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:37:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	41956	3	Standard
	Cl	**37**		ug/L			3416101	3378365	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	523593	1	Standard
|	**Cr**	**52**	**9.601**	ug/L	0.139	1	16425	220265	2	Standard
|	**Cr**	**53**	**9.731**	ug/L	0.119	1	102	23798	0	Standard
⌊	**Mn**	**55**	**116.999**	ug/L	1.175	1	567	3534573	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22536	2	KED
|	**Ni**	**60**	**8.262**	ug/L	0.071	0	20	8337	1	KED
|	**Ni**	**62**	**8.396**	ug/L	0.447	5	7	1392	3	KED
|	**Cu**	**63**	**33.005**	ug/L	0.501	1	30	99053	0	KED
|	**Cu**	**65**	**33.527**	ug/L	0.980	2	24	49693	1	KED
|	**Zn**	**66**	**76.153**	ug/L	1.565	2	40	30340	0	KED
|	**Zn**	**67**	**71.244**	ug/L	0.828	1	3	4845	1	KED
⌊	**As**	**75**	**1.754**	ug/L	0.040	2	5	358	1	KED
	Y	**89**		ug/L			208501	371244	2	Standard
	Kr	**83**		ug/L			52	113	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	6324	0	KED
|	**Cd**	**111**	**0.174**	ug/L	0.020	11	2	42	10	KED
⌊	**Cd**	**114**	**0.135**	ug/L	0.014	10	6	82	10	KED
⌈>	**Tb**	**159**		ug/L			498579	531146	4	Standard
⌊	**Pb**	**208**	**21.617**	ug/L	0.789	3	109	953333	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:42:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36772	2	Standard
	Cl	**37**		ug/L			3416101	3375995	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	506211	2	Standard
|	**Cr**	**52**	**9.658**	ug/L	0.262	2	16425	214004	1	Standard
|	**Cr**	**53**	**9.833**	ug/L	0.190	1	102	23243	1	Standard
⌊	**Mn**	**55**	**115.608**	ug/L	0.960	0	567	3376336	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21583	2	KED
|	**Ni**	**60**	**8.330**	ug/L	0.283	3	20	8047	2	KED
|	**Ni**	**62**	**8.533**	ug/L	0.304	3	7	1355	1	KED
|	**Cu**	**63**	**32.897**	ug/L	0.837	2	30	94547	1	KED
|	**Cu**	**65**	**32.633**	ug/L	0.827	2	24	46333	2	KED
|	**Zn**	**66**	**76.416**	ug/L	1.804	2	40	29159	1	KED
|	**Zn**	**67**	**74.310**	ug/L	1.930	2	3	4839	0	KED
⌊	**As**	**75**	**2.318**	ug/L	0.044	1	5	451	1	KED
	Y	**89**		ug/L			208501	352283	3	Standard
	Kr	**83**		ug/L			52	80	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5976	0	KED
|	**Cd**	**111**	**0.176**	ug/L	0.012	6	2	40	5	KED
⌊	**Cd**	**114**	**0.154**	ug/L	0.002	1	6	87	1	KED
⌈>	**Tb**	**159**		ug/L			498579	501836	3	Standard
⌊	**Pb**	**208**	**24.170**	ug/L	0.734	3	109	1007279	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:46:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	37051	1	Standard
	Cl	**37**		ug/L			3416101	3404997	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	517829	2	Standard
|	**Cr**	**52**	**18.596**	ug/L	0.572	3	16425	403231	2	Standard
|	**Cr**	**53**	**19.040**	ug/L	0.162	0	102	45936	2	Standard
⌊	**Mn**	**55**	**125.449**	ug/L	2.341	1	567	3747523	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21663	1	KED
|	**Ni**	**60**	**19.261**	ug/L	0.741	3	20	18655	2	KED
|	**Ni**	**62**	**19.277**	ug/L	0.893	4	7	3065	3	KED
|	**Cu**	**63**	**43.535**	ug/L	1.449	3	30	125582	2	KED
|	**Cu**	**65**	**43.738**	ug/L	0.461	1	24	62326	0	KED
|	**Zn**	**66**	**122.251**	ug/L	2.016	1	40	46805	1	KED
|	**Zn**	**67**	**112.199**	ug/L	2.697	2	3	7333	1	KED
⌊	**As**	**75**	**11.299**	ug/L	0.229	2	5	2186	0	KED
	Y	**89**		ug/L			208501	359585	0	Standard
	Kr	**83**		ug/L			52	100	16	Standard
⌈>	**In-1**	**115**		ug/L			6222	6035	1	KED
|	**Cd**	**111**	**10.763**	ug/L	0.428	3	2	2354	2	KED
⌊	**Cd**	**114**	**10.472**	ug/L	0.051	0	6	5569	2	KED
⌈>	**Tb**	**159**		ug/L			498579	515767	1	Standard
⌊	**Pb**	**208**	**33.474**	ug/L	0.743	2	109	1434462	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:50:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	38200	0	Standard
	Cl	**37**		ug/L			3416101	3305780	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	507760	1	Standard
|	**Cr**	**52**	**18.989**	ug/L	0.239	1	16425	403464	2	Standard
|	**Cr**	**53**	**19.177**	ug/L	0.198	1	102	45364	1	Standard
⌊	**Mn**	**55**	**126.628**	ug/L	2.487	1	567	3710520	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21739	2	KED
|	**Ni**	**60**	**19.423**	ug/L	0.589	3	20	18877	2	KED
|	**Ni**	**62**	**19.445**	ug/L	0.250	1	7	3103	1	KED
|	**Cu**	**63**	**47.219**	ug/L	0.743	1	30	136689	0	KED
|	**Cu**	**65**	**47.803**	ug/L	0.325	0	24	68356	2	KED
|	**Zn**	**66**	**110.906**	ug/L	2.740	2	40	42603	0	KED
|	**Zn**	**67**	**104.372**	ug/L	0.788	0	3	6847	2	KED
⌊	**As**	**75**	**11.433**	ug/L	0.269	2	5	2219	1	KED
	Y	**89**		ug/L			208501	346328	3	Standard
	Kr	**83**		ug/L			52	99	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5908	2	KED
|	**Cd**	**111**	**10.936**	ug/L	0.366	3	2	2341	1	KED
⌊	**Cd**	**114**	**10.925**	ug/L	0.395	3	6	5683	0	KED
⌈>	**Tb**	**159**		ug/L			498579	511473	4	Standard
⌊	**Pb**	**208**	**32.254**	ug/L	1.247	3	109	1369407	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:55:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	40597	1	Standard
	Cl	**37**		ug/L			3416101	3372676	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	493028	5	Standard
|	**Cr**	**52**	**32.816**	ug/L	1.248	3	16425	662415	2	Standard
|	**Cr**	**53**	**32.977**	ug/L	1.155	3	102	75571	2	Standard
⌊	**Mn**	**55**	**143.695**	ug/L	5.791	4	567	4081614	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22147	2	KED
|	**Ni**	**60**	**33.665**	ug/L	0.675	2	20	33319	1	KED
|	**Ni**	**62**	**34.126**	ug/L	1.096	3	7	5540	0	KED
|	**Cu**	**63**	**59.760**	ug/L	1.464	2	30	176208	0	KED
|	**Cu**	**65**	**58.879**	ug/L	2.549	4	24	85715	1	KED
|	**Zn**	**66**	**159.591**	ug/L	3.387	2	40	62446	1	KED
|	**Zn**	**67**	**145.748**	ug/L	4.209	2	3	9736	1	KED
⌊	**As**	**75**	**27.034**	ug/L	0.535	1	5	5339	0	KED
	Y	**89**		ug/L			208501	354766	3	Standard
	Kr	**83**		ug/L			52	93	13	Standard
⌈>	**In-1**	**115**		ug/L			6222	5998	1	KED
|	**Cd**	**111**	**26.090**	ug/L	0.416	1	2	5670	1	KED
⌊	**Cd**	**114**	**26.836**	ug/L	0.291	1	6	14171	0	KED
⌈>	**Tb**	**159**		ug/L			498579	497269	5	Standard
⌊	**Pb**	**208**	**49.898**	ug/L	1.924	3	109	2059278	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:00:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	47045	1	Standard
	Cl	37		ug/L			3416101	3385921	2	Standard
>	Sc	45		ug/L			429622	685268	1	Standard
	Cr	52	17.143	ug/L	0.182	1	16425	494085	0	Standard
	Cr	53	17.234	ug/L	0.104	0	102	55042	1	Standard
	Mn	55	190.275	ug/L	4.153	2	567	7522792	2	Standard
>	Ge	72		ug/L			22652	21537	1	KED
	Ni	60	22.392	ug/L	0.505	2	20	21558	0	KED
	Ni	62	22.420	ug/L	1.356	6	7	3542	4	KED
	Cu	63	26.419	ug/L	0.610	2	30	75777	0	KED
	Cu	65	26.161	ug/L	0.468	1	24	37070	1	KED
	Zn	66	51.423	ug/L	1.774	3	40	19591	2	KED
	Zn	67	58.095	ug/L	4.014	6	3	3775	5	KED
	As	75	2.599	ug/L	0.149	5	5	504	4	KED
	Y	89		ug/L			208501	614899	1	Standard
	Kr	83		ug/L			52	228	3	Standard
>	In-1	115		ug/L			6222	6106	1	KED
	Cd	111	0.075	ug/L	0.024	32	2	18	28	KED
	Cd	114	0.070	ug/L	0.021	30	6	44	26	KED
>	Tb	159		ug/L			498579	527436	2	Standard
	Pb	208	4.237	ug/L	0.141	3	109	185694	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-19
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:04:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	51540	0	Standard
	Cl	37		ug/L			3416101	3417436	1	Standard
>	Sc	45		ug/L			429622	564025	1	Standard
	Cr	52	14.222	ug/L	0.329	2	16425	341054	1	Standard
	Cr	53	14.421	ug/L	0.326	2	102	37926	1	Standard
	Mn	55	216.875	ug/L	2.984	1	567	7057307	1	Standard
>	Ge	72		ug/L			22652	21188	3	KED
	Ni	60	13.438	ug/L	0.171	1	20	12735	2	KED
	Ni	62	13.466	ug/L	0.205	1	7	2097	4	KED
	Cu	63	44.581	ug/L	1.445	3	30	125710	1	KED
	Cu	65	44.501	ug/L	1.227	2	24	61985	1	KED
	Zn	66	131.471	ug/L	2.034	1	40	49247	5	KED
	Zn	67	124.551	ug/L	3.138	2	3	7958	1	KED
	As	75	3.635	ug/L	0.097	2	5	691	4	KED
	Y	89		ug/L			208501	460766	1	Standard
	Kr	83		ug/L			52	131	8	Standard
>	In-1	115		ug/L			6222	5719	2	KED
	Cd	111	0.290	ug/L	0.013	4	2	62	4	KED
	Cd	114	0.264	ug/L	0.028	10	6	139	12	KED
>	Tb	159		ug/L			498579	516331	2	Standard
	Pb	208	18.472	ug/L	0.421	2	109	792412	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-20
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:08:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	48665	1	Standard
	Cl	37		ug/L			3416101	3418241	0	Standard
>	Sc	45		ug/L			429622	629297	1	Standard
	Cr	52	16.157	ug/L	0.154	0	16425	428984	0	Standard
	Cr	53	16.497	ug/L	0.022	0	102	48391	1	Standard
	Mn	55	304.586	ug/L	3.680	1	567	11057174	1	Standard
>	Ge	72		ug/L			22652	21670	2	KED
	Ni	60	18.043	ug/L	0.081	0	20	17486	2	KED
	Ni	62	18.602	ug/L	0.486	2	7	2959	2	KED
	Cu	63	41.576	ug/L	0.481	1	30	119983	1	KED
	Cu	65	41.644	ug/L	0.583	1	24	59354	1	KED
	Zn	66	139.453	ug/L	3.679	2	40	53387	0	KED
	Zn	67	136.309	ug/L	2.978	2	3	8911	1	KED
	As	75	4.190	ug/L	0.060	1	5	814	1	KED
	Y	89		ug/L			208501	559884	2	Standard
	Kr	83		ug/L			52	187	4	Standard
>	In-1	115		ug/L			6222	5842	3	KED
	Cd	111	0.345	ug/L	0.071	20	2	74	19	KED
	Cd	114	0.248	ug/L	0.052	20	6	134	21	KED
>	Tb	159		ug/L			498579	523748	4	Standard
	Pb	208	27.593	ug/L	1.163	4	109	1199697	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-21
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:13:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49977	2	Standard
	Cl	37		ug/L			3416101	3370637	0	Standard
>	Sc	45		ug/L			429622	598748	1	Standard
	Cr	52	15.427	ug/L	0.163	1	16425	390813	2	Standard
	Cr	53	15.516	ug/L	0.049	0	102	43314	1	Standard
	Mn	55	292.092	ug/L	2.013	0	567	10089737	1	Standard
>	Ge	72		ug/L			22652	21885	2	KED
	Ni	60	18.065	ug/L	0.325	1	20	17678	1	KED
	Ni	62	17.753	ug/L	0.483	2	7	2852	1	KED
	Cu	63	29.005	ug/L	0.782	2	30	84544	2	KED
	Cu	65	28.871	ug/L	0.678	2	24	41558	0	KED
	Zn	66	127.421	ug/L	3.498	2	40	49268	1	KED
	Zn	67	122.468	ug/L	4.460	3	3	8083	1	KED
	As	75	3.292	ug/L	0.078	2	5	647	4	KED
	Y	89		ug/L			208501	520524	4	Standard
	Kr	83		ug/L			52	174	19	Standard
>	In-1	115		ug/L			6222	6022	2	KED
	Cd	111	0.200	ug/L	0.026	12	2	45	9	KED
	Cd	114	0.187	ug/L	0.028	15	6	105	13	KED
>	Tb	159		ug/L			498579	515472	2	Standard
	Pb	208	18.841	ug/L	0.627	3	109	806722	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:20:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30212	2	Standard
	Cl	**37**		ug/L			3416101	3551990	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	419381	2	Standard
|	**Cr**	**52**	**50.352**	ug/L	0.880	1	16425	856958	1	Standard
|	**Cr**	**53**	**50.200**	ug/L	0.153	0	102	97928	1	Standard
⌊	**Mn**	**55**	**50.613**	ug/L	0.637	1	567	1224861	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21189	1	KED
|	**Ni**	**60**	**50.310**	ug/L	1.260	2	20	47635	1	KED
|	**Ni**	**62**	**49.288**	ug/L	0.553	1	7	7656	1	KED
|	**Cu**	**63**	**49.978**	ug/L	0.477	0	30	141036	0	KED
|	**Cu**	**65**	**49.692**	ug/L	0.477	0	24	69255	0	KED
|	**Zn**	**66**	**49.994**	ug/L	1.216	2	40	18748	3	KED
|	**Zn**	**67**	**49.241**	ug/L	0.933	1	3	3150	1	KED
⌊	**As**	**75**	**49.268**	ug/L	0.469	0	5	9307	0	KED
	Y	**89**		ug/L			208501	204002	1	Standard
	Kr	**83**		ug/L			52	70	9	Standard
⌈>	**In-1**	**115**		ug/L			6222	5743	1	KED
|	**Cd**	**111**	**50.781**	ug/L	1.134	2	2	10566	1	KED
⌊	**Cd**	**114**	**51.216**	ug/L	1.216	2	6	25889	1	KED
⌈>	**Tb**	**159**		ug/L			498579	487080	4	Standard
⌊	**Pb**	**208**	**51.990**	ug/L	2.142	4	109	2101826	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:27:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30670	0	Standard
	Cl	**37**		ug/L			3416101	3321596	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	432054	3	Standard
⎢	**Cr**	**52**	**-0.008**	ug/L	0.016	207	16425	16384	3	Standard
⎢	**Cr**	**53**	**-0.006**	ug/L	0.002	29	102	91	1	Standard
⎣	**Mn**	**55**	**0.001**	ug/L	0.002	180	567	594	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	21902	2	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.005	300	20	17	26	KED
⎢	**Ni**	**62**	**-0.030**	ug/L	0.007	24	7	2	43	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.005	408	30	33	43	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.002	57	24	17	19	KED
⎢	**Zn**	**66**	**-0.018**	ug/L	0.017	96	40	32	17	KED
⎢	**Zn**	**67**	**0.040**	ug/L	0.091	227	3	6	96	KED
⎣	**As**	**75**	**0.001**	ug/L	0.007	626	5	5	20	KED
	Y	**89**		ug/L			208501	205788	1	Standard
	Kr	**83**		ug/L			52	50	11	Standard
⎡>	**In-1**	**115**		ug/L			6222	6189	2	KED
⎢	**Cd**	**111**	**0.000**	ug/L	0.003	3125	2	2	24	KED
⎣	**Cd**	**114**	**-0.011**	ug/L	0.002	20	6	1	106	KED
⎡>	**Tb**	**159**		ug/L			498579	481385	5	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	70	109	132	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0516-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 23:31:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	126290	2	Standard
	Cl	**37**		ug/L			3416101	3454727	5	Standard
>	**Sc**	**45**		ug/L			429622	418378	9	Standard
	Cr	**52**	**75.268**	ug/L	3.264	4	16425	1266804	5	Standard
	Cr	**53**	**74.725**	ug/L	3.083	4	102	144995	5	Standard
	Mn	**55**	**14.440**	ug/L	0.534	3	567	348285	6	Standard
>	**Ge**	**72**		ug/L			22652	21749	0	KED
	Ni	**60**	**1.755**	ug/L	0.054	3	20	1724	2	KED
	Ni	**62**	**1.664**	ug/L	0.111	6	7	272	6	KED
	Cu	**63**	**3.591**	ug/L	0.047	1	30	10428	1	KED
	Cu	**65**	**3.646**	ug/L	0.108	2	24	5238	3	KED
	Zn	**66**	**281.671**	ug/L	1.980	0	40	108232	0	KED
	Zn	**67**	**255.077**	ug/L	1.242	0	3	16737	0	KED
	As	**75**	**0.097**	ug/L	0.016	16	5	24	12	KED
	Y	**89**		ug/L			208501	205690	8	Standard
	Kr	**83**		ug/L			52	57	12	Standard
>	**In-1**	**115**		ug/L			6222	6083	1	KED
	Cd	**111**	**1.673**	ug/L	0.043	2	2	370	1	KED
	Cd	**114**	**1.728**	ug/L	0.037	2	6	931	2	KED
>	**Tb**	**159**		ug/L			498579	480759	10	Standard
	Pb	**208**	**0.293**	ug/L	0.022	7	109	11740	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:36:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31900	2	Standard
	Cl	**37**		ug/L			3416101	3492233	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	409879	1	Standard
|	**Cr**	**52**	**0.053**	ug/L	0.038	71	16425	16528	2	Standard
|	**Cr**	**53**	**0.005**	ug/L	0.004	69	102	107	8	Standard
⌊	**Mn**	**55**	**0.007**	ug/L	0.001	11	567	697	4	Standard
⌈>	**Ge**	**72**		ug/L			22652	20922	2	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.001	16	20	10	10	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.006	141	7	6	17	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	29	30	38	10	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.003	57	24	14	32	KED
|	**Zn**	**66**	**0.017**	ug/L	0.016	95	40	43	15	KED
|	**Zn**	**67**	**0.065**	ug/L	0.033	50	3	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.003	408	5	5	9	KED
	Y	**89**		ug/L			208501	203292	1	Standard
	Kr	**83**		ug/L			52	36	7	Standard
⌈>	**In-1**	**115**		ug/L			6222	5742	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.005	228	2	2	43	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.002	26	6	2	42	KED
⌈>	**Tb**	**159**		ug/L			498579	472001	3	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	23	109	206	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 23:40:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32649	1	Standard
	Cl	**37**		ug/L			3416101	3253034	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	425265	2	Standard
|	**Cr**	**52**	**1.020**	ug/L	0.057	5	16425	33527	0	Standard
|	**Cr**	**53**	**1.047**	ug/L	0.050	4	102	2168	2	Standard
⌊	**Mn**	**55**	**16.483**	ug/L	0.400	2	567	404781	0	Standard
⌈>	**Ge**	**72**		ug/L			22652	21135	2	KED
|	**Ni**	**60**	**1.249**	ug/L	0.076	6	20	1198	6	KED
|	**Ni**	**62**	**1.369**	ug/L	0.016	1	7	219	3	KED
|	**Cu**	**63**	**2.217**	ug/L	0.146	6	30	6266	5	KED
|	**Cu**	**65**	**2.332**	ug/L	0.053	2	24	3263	2	KED
|	**Zn**	**66**	**8.665**	ug/L	0.286	3	40	3270	1	KED
|	**Zn**	**67**	**9.194**	ug/L	0.677	7	3	589	5	KED
⌊	**As**	**75**	**0.351**	ug/L	0.048	13	5	71	12	KED
	Y	**89**		ug/L			208501	227322	2	Standard
	Kr	**83**		ug/L			52	49	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5764	2	KED
|	**Cd**	**111**	**0.020**	ug/L	0.013	65	2	6	45	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.005	65	6	9	21	KED
⌈>	**Tb**	**159**		ug/L			498579	479840	4	Standard
⌊	**Pb**	**208**	**1.033**	ug/L	0.041	3	109	41262	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-20
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:44:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35033	0	Standard
	Cl	**37**		ug/L			3416101	3290985	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460960	3	Standard
|	**Cr**	**52**	**4.655**	ug/L	0.147	3	16425	103020	1	Standard
|	**Cr**	**53**	**4.734**	ug/L	0.129	2	102	10245	2	Standard
⌊	**Mn**	**55**	**73.655**	ug/L	1.474	2	567	1958308	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21056	0	KED
|	**Ni**	**60**	**6.295**	ug/L	0.208	3	20	5940	3	KED
|	**Ni**	**62**	**6.385**	ug/L	0.212	3	7	991	3	KED
|	**Cu**	**63**	**10.561**	ug/L	0.269	2	30	29640	2	KED
|	**Cu**	**65**	**10.862**	ug/L	0.403	3	24	15061	3	KED
|	**Zn**	**66**	**41.147**	ug/L	0.658	1	40	15339	1	KED
|	**Zn**	**67**	**39.417**	ug/L	0.431	1	3	2506	0	KED
⌊	**As**	**75**	**1.738**	ug/L	0.078	4	5	331	4	KED
	Y	**89**		ug/L			208501	316930	2	Standard
	Kr	**83**		ug/L			52	67	11	Standard
⌈>	**In-1**	**115**		ug/L			6222	5954	1	KED
|	**Cd**	**111**	**0.076**	ug/L	0.008	10	2	18	7	KED
⌊	**Cd**	**114**	**0.036**	ug/L	0.018	49	6	25	37	KED
⌈>	**Tb**	**159**		ug/L			498579	497293	3	Standard
⌊	**Pb**	**208**	**4.808**	ug/L	0.170	3	109	198630	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:49:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35797	1	Standard
	Cl	**37**		ug/L			3416101	3347294	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	459784	2	Standard
|	**Cr**	**52**	**4.687**	ug/L	0.074	1	16425	103402	1	Standard
|	**Cr**	**53**	**4.694**	ug/L	0.242	5	102	10129	2	Standard
⌊	**Mn**	**55**	**67.591**	ug/L	1.759	2	567	1792809	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	20840	1	KED
|	**Ni**	**60**	**5.902**	ug/L	0.233	3	20	5511	2	KED
|	**Ni**	**62**	**5.724**	ug/L	0.104	1	7	880	0	KED
|	**Cu**	**63**	**9.320**	ug/L	0.277	2	30	25885	1	KED
|	**Cu**	**65**	**9.390**	ug/L	0.165	1	24	12890	2	KED
|	**Zn**	**66**	**34.822**	ug/L	0.615	1	40	12851	0	KED
|	**Zn**	**67**	**33.653**	ug/L	1.167	3	3	2118	2	KED
⌊	**As**	**75**	**1.178**	ug/L	0.060	5	5	224	3	KED
	Y	**89**		ug/L			208501	306749	1	Standard
	Kr	**83**		ug/L			52	53	8	Standard
⌈>	**In-1**	**115**		ug/L			6222	5876	1	KED
|	**Cd**	**111**	**0.060**	ug/L	0.030	49	2	14	43	KED
⌊	**Cd**	**114**	**0.048**	ug/L	0.003	5	6	31	3	KED
⌈>	**Tb**	**159**		ug/L			498579	496358	3	Standard
⌊	**Pb**	**208**	**4.089**	ug/L	0.201	4	109	168581	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:53:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32912	0	Standard
	Cl	**37**		ug/L			3416101	3334208	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460075	0	Standard
|	**Cr**	**52**	**14.502**	ug/L	0.227	1	16425	283308	0	Standard
|	**Cr**	**53**	**14.394**	ug/L	0.123	0	102	30880	0	Standard
⌊	**Mn**	**55**	**85.617**	ug/L	0.808	0	567	2272998	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22261	0	KED
|	**Ni**	**60**	**17.596**	ug/L	0.226	1	20	17518	1	KED
|	**Ni**	**62**	**17.788**	ug/L	0.481	2	7	2907	2	KED
|	**Cu**	**63**	**23.105**	ug/L	0.450	1	30	68515	1	KED
|	**Cu**	**65**	**23.387**	ug/L	0.390	1	24	34259	1	KED
|	**Zn**	**66**	**73.872**	ug/L	0.615	0	40	29080	0	KED
|	**Zn**	**67**	**68.976**	ug/L	2.399	3	3	4634	2	KED
⌊	**As**	**75**	**10.929**	ug/L	0.298	2	5	2173	2	KED
	Y	**89**		ug/L			208501	321571	0	Standard
	Kr	**83**		ug/L			52	80	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6050	2	KED
|	**Cd**	**111**	**10.585**	ug/L	0.306	2	2	2321	0	KED
⌊	**Cd**	**114**	**10.567**	ug/L	0.408	3	6	5630	2	KED
⌈>	**Tb**	**159**		ug/L			498579	489777	2	Standard
⌊	**Pb**	**208**	**16.220**	ug/L	0.252	1	109	660173	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:58:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	36814	1	Standard
	Cl	37		ug/L			3416101	3384829	2	Standard
>	Sc	45		ug/L			429622	485303	2	Standard
	Cr	52	15.001	ug/L	0.399	2	16425	308396	0	Standard
	Cr	53	15.038	ug/L	0.548	3	102	34013	1	Standard
	Mn	55	85.300	ug/L	2.050	2	567	2387898	0	Standard
>	Ge	72		ug/L			22652	20951	1	KED
	Ni	60	17.724	ug/L	0.140	0	20	16607	1	KED
	Ni	62	17.576	ug/L	0.488	2	7	2704	3	KED
	Cu	63	21.632	ug/L	0.349	1	30	60372	1	KED
	Cu	65	21.864	ug/L	0.938	4	24	30129	2	KED
	Zn	66	93.011	ug/L	0.536	0	40	34452	1	KED
	Zn	67	87.834	ug/L	1.832	2	3	5552	0	KED
	As	75	10.987	ug/L	0.175	1	5	2056	2	KED
	Y	89		ug/L			208501	341865	2	Standard
	Kr	83		ug/L			52	95	14	Standard
>	In-1	115		ug/L			6222	5681	1	KED
	Cd	111	10.926	ug/L	0.240	2	2	2250	1	KED
	Cd	114	10.884	ug/L	0.257	2	6	5447	1	KED
>	Tb	159		ug/L			498579	513014	3	Standard
	Pb	208	15.431	ug/L	0.552	3	109	657413	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:02:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	34964	3	Standard
	Cl	**37**		ug/L			3416101	3410599	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	471137	4	Standard
|	**Cr**	**52**	**28.571**	ug/L	0.438	1	16425	553986	3	Standard
|	**Cr**	**53**	**28.824**	ug/L	0.722	2	102	63172	2	Standard
⌊	**Mn**	**55**	**98.487**	ug/L	1.472	1	567	2676206	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	22225	0	KED
|	**Ni**	**60**	**33.168**	ug/L	0.412	1	20	32952	1	KED
|	**Ni**	**62**	**32.724**	ug/L	0.076	0	7	5334	1	KED
|	**Cu**	**63**	**37.813**	ug/L	0.889	2	30	111950	2	KED
|	**Cu**	**65**	**37.570**	ug/L	0.919	2	24	54941	3	KED
|	**Zn**	**66**	**127.206**	ug/L	0.351	0	40	49970	1	KED
|	**Zn**	**67**	**116.589**	ug/L	2.888	2	3	7819	2	KED
⌊	**As**	**75**	**27.269**	ug/L	0.153	0	5	5406	0	KED
	Y	**89**		ug/L			208501	328580	2	Standard
	Kr	**83**		ug/L			52	61	34	Standard
⌈>	**In-1**	**115**		ug/L			6222	6056	0	KED
|	**Cd**	**111**	**26.468**	ug/L	0.294	1	2	5809	1	KED
⌊	**Cd**	**114**	**26.604**	ug/L	0.576	2	6	14186	2	KED
⌈>	**Tb**	**159**		ug/L			498579	500325	5	Standard
⌊	**Pb**	**208**	**32.342**	ug/L	1.456	4	109	1342547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRM2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:06:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35447	1	Standard
	Cl	**37**		ug/L			3416101	3348515	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	447131	1	Standard
|	**Cr**	**52**	**49.665**	ug/L	0.304	0	16425	901623	1	Standard
|	**Cr**	**53**	**50.854**	ug/L	0.480	0	102	105764	0	Standard
⌊	**Mn**	**55**	**121.689**	ug/L	1.435	1	567	3139587	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21066	1	KED
|	**Ni**	**60**	**80.835**	ug/L	2.018	2	20	76082	1	KED
|	**Ni**	**62**	**79.740**	ug/L	1.739	2	7	12310	2	KED
|	**Cu**	**63**	**33.104**	ug/L	0.818	2	30	92880	2	KED
|	**Cu**	**65**	**32.435**	ug/L	0.364	1	24	44951	1	KED
|	**Zn**	**66**	**37.528**	ug/L	0.917	2	40	13996	1	KED
|	**Zn**	**67**	**40.835**	ug/L	0.481	1	3	2598	2	KED
⌊	**As**	**75**	**19.282**	ug/L	0.217	1	5	3625	1	KED
	Y	**89**		ug/L			208501	277281	0	Standard
	Kr	**83**		ug/L			52	57	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5979	0	KED
|	**Cd**	**111**	**36.909**	ug/L	0.575	1	2	7996	1	KED
⌊	**Cd**	**114**	**37.227**	ug/L	0.378	1	6	19594	0	KED
⌈>	**Tb**	**159**		ug/L			498579	510486	3	Standard
⌊	**Pb**	**208**	**62.318**	ug/L	2.363	3	109	2641194	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:11:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	33038	2	Standard
	Cl	**37**		ug/L			3416101	3265330	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	418822	1	Standard
⎢	**Cr**	**52**	**-0.007**	ug/L	0.019	282	16425	15899	2	Standard
⎢	**Cr**	**53**	**-0.002**	ug/L	0.003	170	102	96	4	Standard
⎣	**Mn**	**55**	**0.008**	ug/L	0.001	12	567	740	4	Standard
⎡>	**Ge**	**72**		ug/L			22652	21130	3	KED
⎢	**Ni**	**60**	**-0.011**	ug/L	0.003	29	20	8	35	KED
⎢	**Ni**	**62**	**-0.025**	ug/L	0.007	26	7	3	34	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.003	27	30	53	11	KED
⎢	**Cu**	**65**	**0.006**	ug/L	0.004	70	24	30	21	KED
⎢	**Zn**	**66**	**0.020**	ug/L	0.019	95	40	45	12	KED
⎢	**Zn**	**67**	**0.015**	ug/L	0.077	501	3	4	107	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.014	1141	5	5	48	KED
	Y	**89**		ug/L			208501	206765	1	Standard
	Kr	**83**		ug/L			52	49	19	Standard
⎡>	**In-1**	**115**		ug/L			6222	5914	1	KED
⎢	**Cd**	**111**	**-0.001**	ug/L	0.005	507	2	1	50	KED
⎣	**Cd**	**114**	**-0.006**	ug/L	0.004	70	6	3	57	KED
⎡>	**Tb**	**159**		ug/L			498579	474330	3	Standard
⎣	**Pb**	**208**	**0.006**	ug/L	0.001	13	109	322	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:15:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31549	0	Standard
	Cl	**37**		ug/L			3416101	3523562	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	415244	3	Standard
⎢	**Cr**	**52**	**50.902**	ug/L	0.792	1	16425	857459	2	Standard
⎢	**Cr**	**53**	**50.076**	ug/L	1.593	3	102	96651	1	Standard
⎣	**Mn**	**55**	**51.084**	ug/L	0.995	1	567	1223740	2	Standard
⎡>	**Ge**	**72**		ug/L			22652	21010	2	KED
⎢	**Ni**	**60**	**50.376**	ug/L	1.711	3	20	47281	2	KED
⎢	**Ni**	**62**	**51.105**	ug/L	2.184	4	7	7866	2	KED
⎢	**Cu**	**63**	**49.628**	ug/L	1.217	2	30	138831	1	KED
⎢	**Cu**	**65**	**49.448**	ug/L	0.855	1	24	68323	1	KED
⎢	**Zn**	**66**	**51.617**	ug/L	1.455	2	40	19182	1	KED
⎢	**Zn**	**67**	**49.608**	ug/L	0.941	1	3	3146	1	KED
⎣	**As**	**75**	**49.810**	ug/L	1.132	2	5	9328	1	KED
	Y	**89**		ug/L			208501	208760	2	Standard
	Kr	**83**		ug/L			52	55	24	Standard
⎡>	**In-1**	**115**		ug/L			6222	5663	0	KED
⎢	**Cd**	**111**	**50.579**	ug/L	1.079	2	2	10380	2	KED
⎣	**Cd**	**114**	**51.126**	ug/L	0.563	1	6	25490	1	KED
⎡>	**Tb**	**159**		ug/L			498579	480987	4	Standard
⎣	**Pb**	**208**	**52.441**	ug/L	1.187	2	109	2094890	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:22:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29608	2	Standard
	Cl	**37**		ug/L			3416101	3285009	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	397909	0	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.018	788	16425	15176	1	Standard
⎢	**Cr**	**53**	**-0.008**	ug/L	0.003	36	102	80	6	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.001	126	567	501	6	Standard
⎡>	**Ge**	**72**		ug/L			22652	20223	3	KED
⎢	**Ni**	**60**	**-0.009**	ug/L	0.001	13	20	10	10	KED
⎢	**Ni**	**62**	**-0.012**	ug/L	0.019	155	7	5	57	KED
⎢	**Cu**	**63**	**0.000**	ug/L	0.003	1022	30	27	27	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.007	172	24	16	53	KED
⎢	**Zn**	**66**	**-0.023**	ug/L	0.010	41	40	27	10	KED
⎢	**Zn**	**67**	**0.018**	ug/L	0.021	117	3	4	24	KED
⎣	**As**	**75**	**0.002**	ug/L	0.020	815	5	5	62	KED
	Y	**89**		ug/L			208501	194885	0	Standard
	Kr	**83**		ug/L			52	38	15	Standard
⎡>	**In-1**	**115**		ug/L			6222	5602	2	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.007	265	2	2	57	KED
⎣	**Cd**	**114**	**-0.010**	ug/L	0.002	22	6	1	86	KED
⎡>	**Tb**	**159**		ug/L			498579	452147	3	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	111	109	111	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:26:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	34922	4	Standard
	Cl	**37**		ug/L			3416101	3348788	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	449099	0	Standard
|	**Cr**	**52**	**1.330**	ug/L	0.039	2	16425	40962	2	Standard
|	**Cr**	**53**	**1.358**	ug/L	0.030	2	102	2940	1	Standard
⌊	**Mn**	**55**	**29.261**	ug/L	0.539	1	567	758777	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	20964	1	KED
|	**Ni**	**60**	**1.621**	ug/L	0.083	5	20	1536	4	KED
|	**Ni**	**62**	**1.623**	ug/L	0.156	9	7	256	10	KED
|	**Cu**	**63**	**2.921**	ug/L	0.066	2	30	8182	1	KED
|	**Cu**	**65**	**3.025**	ug/L	0.092	3	24	4192	2	KED
|	**Zn**	**66**	**12.272**	ug/L	0.389	3	40	4581	3	KED
|	**Zn**	**67**	**12.200**	ug/L	1.184	9	3	774	8	KED
⌊	**As**	**75**	**0.295**	ug/L	0.013	4	5	60	4	KED
	Y	**89**		ug/L			208501	243670	1	Standard
	Kr	**83**		ug/L			52	61	6	Standard
⌈>	**In-1**	**115**		ug/L			6222	5749	3	KED
|	**Cd**	**111**	**0.030**	ug/L	0.013	44	2	8	35	KED
⌊	**Cd**	**114**	**0.035**	ug/L	0.006	16	6	23	12	KED
⌈>	**Tb**	**159**		ug/L			498579	500269	4	Standard
⌊	**Pb**	**208**	**1.550**	ug/L	0.043	2	109	64498	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22J0097-31
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:31:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39535	2	Standard
	Cl	**37**		ug/L			3416101	3356703	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	479478	1	Standard
|	**Cr**	**52**	**5.988**	ug/L	0.067	1	16425	132683	1	Standard
|	**Cr**	**53**	**6.005**	ug/L	0.103	1	102	13494	2	Standard
⌊	**Mn**	**55**	**126.181**	ug/L	2.053	1	567	3491219	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	20909	2	KED
|	**Ni**	**60**	**8.197**	ug/L	0.089	1	20	7674	1	KED
|	**Ni**	**62**	**8.210**	ug/L	0.344	4	7	1263	1	KED
|	**Cu**	**63**	**14.457**	ug/L	0.350	2	30	40263	0	KED
|	**Cu**	**65**	**14.441**	ug/L	0.055	0	24	19879	2	KED
|	**Zn**	**66**	**59.092**	ug/L	2.281	3	40	21843	1	KED
|	**Zn**	**67**	**55.515**	ug/L	1.719	3	3	3504	3	KED
⌊	**As**	**75**	**1.308**	ug/L	0.060	4	5	249	4	KED
	Y	**89**		ug/L			208501	322274	2	Standard
	Kr	**83**		ug/L			52	73	10	Standard
⌈>	**In-1**	**115**		ug/L			6222	5662	1	KED
|	**Cd**	**111**	**0.148**	ug/L	0.014	9	2	32	10	KED
⌊	**Cd**	**114**	**0.138**	ug/L	0.041	29	6	74	25	KED
⌈>	**Tb**	**159**		ug/L			498579	494083	4	Standard
⌊	**Pb**	**208**	**7.331**	ug/L	0.314	4	109	300671	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:35:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	41675	2	Standard
	Cl	**37**		ug/L			3416101	3408444	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	483118	3	Standard
|	**Cr**	**52**	**6.064**	ug/L	0.060	0	16425	135147	2	Standard
|	**Cr**	**53**	**6.182**	ug/L	0.042	0	102	13992	3	Standard
⌊	**Mn**	**55**	**134.781**	ug/L	1.835	1	567	3756019	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21760	0	KED
|	**Ni**	**60**	**7.953**	ug/L	0.084	1	20	7751	1	KED
|	**Ni**	**62**	**7.725**	ug/L	0.349	4	7	1238	4	KED
|	**Cu**	**63**	**14.760**	ug/L	0.041	0	30	42799	0	KED
|	**Cu**	**65**	**15.084**	ug/L	0.311	2	24	21608	2	KED
|	**Zn**	**66**	**60.944**	ug/L	1.187	1	40	23461	2	KED
|	**Zn**	**67**	**59.377**	ug/L	1.213	2	3	3900	2	KED
⌊	**As**	**75**	**1.547**	ug/L	0.061	3	5	305	4	KED
	Y	**89**		ug/L			208501	332178	3	Standard
	Kr	**83**		ug/L			52	74	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6094	2	KED
|	**Cd**	**111**	**0.128**	ug/L	0.010	7	2	30	9	KED
⌊	**Cd**	**114**	**0.127**	ug/L	0.011	8	6	75	5	KED
⌈>	**Tb**	**159**		ug/L			498579	502605	2	Standard
⌊	**Pb**	**208**	**7.113**	ug/L	0.179	2	109	297064	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:40:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	40716	1	Standard
	Cl	**37**		ug/L			3416101	3511424	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	504591	1	Standard
|	**Cr**	**52**	**16.094**	ug/L	0.104	0	16425	342721	1	Standard
|	**Cr**	**53**	**16.277**	ug/L	0.403	2	102	38275	1	Standard
⌊	**Mn**	**55**	**135.860**	ug/L	2.804	2	567	3954824	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22057	0	KED
|	**Ni**	**60**	**18.688**	ug/L	0.479	2	20	18433	2	KED
|	**Ni**	**62**	**18.273**	ug/L	0.076	0	7	2959	0	KED
|	**Cu**	**63**	**24.922**	ug/L	0.315	1	30	73229	1	KED
|	**Cu**	**65**	**25.258**	ug/L	0.179	0	24	36659	0	KED
|	**Zn**	**66**	**90.053**	ug/L	0.819	0	40	35118	0	KED
|	**Zn**	**67**	**83.877**	ug/L	2.281	2	3	5583	2	KED
⌊	**As**	**75**	**11.217**	ug/L	0.121	1	5	2210	0	KED
	Y	**89**		ug/L			208501	349782	1	Standard
	Kr	**83**		ug/L			52	86	5	Standard
⌈>	**In-1**	**115**		ug/L			6222	5892	0	KED
|	**Cd**	**111**	**10.592**	ug/L	0.146	1	2	2263	0	KED
⌊	**Cd**	**114**	**10.765**	ug/L	0.086	0	6	5588	1	KED
⌈>	**Tb**	**159**		ug/L			498579	515423	4	Standard
⌊	**Pb**	**208**	**17.577**	ug/L	0.477	2	109	752437	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:44:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39126	3	Standard
	Cl	**37**		ug/L			3416101	3486444	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	482324	2	Standard
|	**Cr**	**52**	**15.556**	ug/L	0.284	1	16425	317229	2	Standard
|	**Cr**	**53**	**15.536**	ug/L	0.343	2	102	34926	1	Standard
⌊	**Mn**	**55**	**134.850**	ug/L	1.275	0	567	3753412	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21584	3	KED
|	**Ni**	**60**	**18.719**	ug/L	1.065	5	20	18043	2	KED
|	**Ni**	**62**	**18.213**	ug/L	0.565	3	7	2884	1	KED
|	**Cu**	**63**	**23.531**	ug/L	1.141	4	30	67586	1	KED
|	**Cu**	**65**	**23.837**	ug/L	0.672	2	24	33833	0	KED
|	**Zn**	**66**	**86.113**	ug/L	1.343	1	40	32852	2	KED
|	**Zn**	**67**	**82.952**	ug/L	3.165	3	3	5399	0	KED
⌊	**As**	**75**	**10.761**	ug/L	0.444	4	5	2073	0	KED
	Y	**89**		ug/L			208501	330446	2	Standard
	Kr	**83**		ug/L			52	88	25	Standard
⌈>	**In-1**	**115**		ug/L			6222	5946	3	KED
|	**Cd**	**111**	**10.366**	ug/L	0.442	4	2	2232	0	KED
⌊	**Cd**	**114**	**10.383**	ug/L	0.401	3	6	5435	0	KED
⌈>	**Tb**	**159**		ug/L			498579	498626	5	Standard
⌊	**Pb**	**208**	**17.243**	ug/L	0.649	3	109	713675	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:48:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39631	1	Standard
	Cl	**37**		ug/L			3416101	3480784	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	475060	3	Standard
|	**Cr**	**52**	**29.015**	ug/L	0.275	0	16425	567116	2	Standard
|	**Cr**	**53**	**29.339**	ug/L	0.944	3	102	64838	0	Standard
⌊	**Mn**	**55**	**148.145**	ug/L	2.566	1	567	4059387	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21218	3	KED
|	**Ni**	**60**	**34.525**	ug/L	2.219	6	20	32700	3	KED
|	**Ni**	**62**	**33.620**	ug/L	2.261	6	7	5224	3	KED
|	**Cu**	**63**	**40.486**	ug/L	0.677	1	30	114374	2	KED
|	**Cu**	**65**	**40.412**	ug/L	1.213	3	24	56368	1	KED
|	**Zn**	**66**	**140.509**	ug/L	5.328	3	40	52641	0	KED
|	**Zn**	**67**	**127.382**	ug/L	4.135	3	3	8149	0	KED
⌊	**As**	**75**	**26.881**	ug/L	0.424	1	5	5086	2	KED
	Y	**89**		ug/L			208501	323490	1	Standard
	Kr	**83**		ug/L			52	71	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5889	1	KED
|	**Cd**	**111**	**26.119**	ug/L	0.324	1	2	5574	1	KED
⌊	**Cd**	**114**	**25.931**	ug/L	0.461	1	6	13443	0	KED
⌈>	**Tb**	**159**		ug/L			498579	489147	3	Standard
⌊	**Pb**	**208**	**34.790**	ug/L	1.298	3	109	1413058	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:53:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46647	1	Standard
	Cl	37		ug/L			3416101	3405859	0	Standard
>	Sc	45		ug/L			429622	594943	1	Standard
	Cr	52	15.424	ug/L	0.093	0	16425	388245	1	Standard
	Cr	53	15.517	ug/L	0.102	0	102	43042	1	Standard
	Mn	55	249.521	ug/L	2.460	0	567	8564244	0	Standard
>	Ge	72		ug/L			22652	21286	3	KED
	Ni	60	18.460	ug/L	0.346	1	20	17569	2	KED
	Ni	62	18.434	ug/L	0.495	2	7	2882	5	KED
	Cu	63	24.700	ug/L	0.423	1	30	70032	3	KED
	Cu	65	24.571	ug/L	0.725	2	24	34400	2	KED
	Zn	66	101.763	ug/L	1.283	1	40	38282	2	KED
	Zn	67	101.524	ug/L	3.165	3	3	6525	6	KED
	As	75	2.650	ug/L	0.046	1	5	508	2	KED
	Y	89		ug/L			208501	486889	1	Standard
	Kr	83		ug/L			52	164	14	Standard
>	In-1	115		ug/L			6222	5878	1	KED
	Cd	111	0.097	ug/L	0.012	12	2	22	12	KED
	Cd	114	0.139	ug/L	0.014	9	6	78	7	KED
>	Tb	159		ug/L			498579	522849	3	Standard
	Pb	208	16.496	ug/L	0.527	3	109	716386	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:57:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49707	3	Standard
	Cl	37		ug/L			3416101	3375822	2	Standard
>	Sc	45		ug/L			429622	631410	2	Standard
	Cr	52	16.254	ug/L	0.332	2	16425	432749	0	Standard
	Cr	53	16.355	ug/L	0.094	0	102	48134	2	Standard
	Mn	55	361.561	ug/L	7.156	1	567	13166082	1	Standard
>	Ge	72		ug/L			22652	21940	3	KED
	Ni	60	19.399	ug/L	1.182	6	20	19009	3	KED
	Ni	62	20.068	ug/L	0.721	3	7	3230	0	KED
	Cu	63	36.371	ug/L	1.353	3	30	106211	0	KED
	Cu	65	36.300	ug/L	1.330	3	24	52357	0	KED
	Zn	66	146.723	ug/L	5.535	3	40	56849	1	KED
	Zn	67	147.496	ug/L	5.946	4	3	9758	2	KED
	As	75	3.885	ug/L	0.174	4	5	764	1	KED
	Y	89		ug/L			208501	578449	1	Standard
	Kr	83		ug/L			52	203	4	Standard
>	In-1	115		ug/L			6222	5878	2	KED
	Cd	111	0.286	ug/L	0.048	16	2	62	13	KED
	Cd	114	0.254	ug/L	0.036	14	6	137	11	KED
>	Tb	159		ug/L			498579	511039	3	Standard
	Pb	208	24.627	ug/L	0.893	3	109	1044983	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:01:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46574	0	Standard
	Cl	37		ug/L			3416101	3379169	1	Standard
>	Sc	45		ug/L			429622	620291	2	Standard
	Cr	52	16.437	ug/L	0.163	0	16425	429814	2	Standard
	Cr	53	16.626	ug/L	0.381	2	102	48058	0	Standard
	Mn	55	310.654	ug/L	1.107	0	567	11117349	2	Standard
>	Ge	72		ug/L			22652	20581	1	KED
	Ni	60	18.856	ug/L	0.425	2	20	17354	1	KED
	Ni	62	18.790	ug/L	0.725	3	7	2839	3	KED
	Cu	63	42.128	ug/L	0.806	1	30	115476	1	KED
	Cu	65	43.333	ug/L	0.599	1	24	58666	0	KED
	Zn	66	139.400	ug/L	1.715	1	40	50705	1	KED
	Zn	67	136.427	ug/L	3.426	2	3	8471	1	KED
	As	75	4.058	ug/L	0.128	3	5	749	2	KED
	Y	89		ug/L			208501	559074	0	Standard
	Kr	83		ug/L			52	189	11	Standard
>	In-1	115		ug/L			6222	5607	3	KED
	Cd	111	0.260	ug/L	0.013	5	2	54	7	KED
	Cd	114	0.305	ug/L	0.045	14	6	156	12	KED
>	Tb	159		ug/L			498579	504952	3	Standard
	Pb	208	32.193	ug/L	1.171	3	109	1349703	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-31
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:06:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	48674	1	Standard
Cl	37		ug/L			3416101	3409450	1	Standard
> Sc	45		ug/L			429622	586958	3	Standard
Cr	52	14.692	ug/L	0.342	2	16425	365754	0	Standard
Cr	53	14.966	ug/L	0.221	1	102	40948	1	Standard
Mn	55	241.038	ug/L	5.247	2	567	8159092	1	Standard
> Ge	72		ug/L			22652	21147	1	KED
Ni	60	14.830	ug/L	0.291	1	20	14029	3	KED
Ni	62	15.157	ug/L	0.503	3	7	2355	4	KED
Cu	63	47.502	ug/L	0.903	1	30	133772	1	KED
Cu	65	47.669	ug/L	1.367	2	24	66297	2	KED
Zn	66	146.123	ug/L	4.631	3	40	54602	3	KED
Zn	67	139.180	ug/L	2.017	1	3	8881	2	KED
As	75	3.995	ug/L	0.157	3	5	758	4	KED
Y	89		ug/L			208501	485316	1	Standard
Kr	83		ug/L			52	172	15	Standard
> In-1	115		ug/L			6222	5895	2	KED
Cd	111	0.240	ug/L	0.017	7	2	53	4	KED
Cd	114	0.266	ug/L	0.009	3	6	144	2	KED
> Tb	159		ug/L			498579	512635	3	Standard
Pb	208	21.533	ug/L	0.668	3	109	916743	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:13:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30368	2	Standard
	Cl	**37**		ug/L			3416101	3570879	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	419169	3	Standard
|	**Cr**	**52**	**50.270**	ug/L	1.224	2	16425	854922	0	Standard
|	**Cr**	**53**	**50.770**	ug/L	1.391	2	102	98937	0	Standard
⌊	**Mn**	**55**	**50.084**	ug/L	1.680	3	567	1210902	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21180	2	KED
|	**Ni**	**60**	**51.753**	ug/L	1.036	2	20	48976	1	KED
|	**Ni**	**62**	**51.052**	ug/L	2.579	5	7	7929	6	KED
|	**Cu**	**63**	**50.944**	ug/L	0.989	1	30	143703	2	KED
|	**Cu**	**65**	**51.042**	ug/L	0.865	1	24	71101	1	KED
|	**Zn**	**66**	**51.780**	ug/L	1.563	3	40	19408	4	KED
|	**Zn**	**67**	**50.621**	ug/L	1.036	2	3	3238	4	KED
⌊	**As**	**75**	**50.796**	ug/L	1.125	2	5	9592	3	KED
	Y	**89**		ug/L			208501	202177	1	Standard
	Kr	**83**		ug/L			52	60	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	5749	3	KED
|	**Cd**	**111**	**50.886**	ug/L	1.092	2	2	10596	1	KED
⌊	**Cd**	**114**	**50.648**	ug/L	2.013	3	6	25613	0	KED
⌈>	**Tb**	**159**		ug/L			498579	476193	3	Standard
⌊	**Pb**	**208**	**53.265**	ug/L	1.057	1	109	2106985	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:20:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31339	3	Standard
	Cl	**37**		ug/L			3416101	3285110	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	418292	0	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.016	599	16425	16035	0	Standard
|	**Cr**	**53**	**-0.010**	ug/L	0.004	37	102	80	9	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	74	567	580	4	Standard
⌈>	**Ge**	**72**		ug/L			22652	21236	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.006	182	20	15	38	KED
|	**Ni**	**62**	**-0.017**	ug/L	0.018	106	7	4	65	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.001	16499	30	28	11	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	60	24	20	5	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.022	107	40	30	28	KED
|	**Zn**	**67**	**0.014**	ug/L	0.047	331	3	4	65	KED
⌊	**As**	**75**	**0.004**	ug/L	0.008	242	5	6	27	KED
	Y	**89**		ug/L			208501	206206	1	Standard
	Kr	**83**		ug/L			52	48	18	Standard
⌈>	**In-1**	**115**		ug/L			6222	6125	1	KED
|	**Cd**	**111**	**0.006**	ug/L	0.006	110	2	3	41	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.003	36	6	1	108	KED
⌈>	**Tb**	**159**		ug/L			498579	482087	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	80	109	119	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:24:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				31215	3	Standard
	Cl	**37**		ug/L				3324914	1	Standard
⎡>	**Sc**	**45**		ug/L				423672	1	Standard
⎢	**Cr**	**52**		ug/L				16311	0	Standard
⎢	**Cr**	**53**		ug/L				93	12	Standard
⎣	**Mn**	**55**		ug/L				527	6	Standard
⎡>	**Ge**	**72**		ug/L				20993	1	KED
⎢	**Ni**	**60**		ug/L				13	55	KED
⎢	**Ni**	**62**		ug/L				8	13	KED
⎢	**Cu**	**63**		ug/L				34	20	KED
⎢	**Cu**	**65**		ug/L				19	33	KED
⎢	**Zn**	**66**		ug/L				36	29	KED
⎢	**Zn**	**67**		ug/L				4	24	KED
⎣	**As**	**75**		ug/L				5	65	KED
	Y	**89**		ug/L				210865	1	Standard
	Kr	**83**		ug/L				43	25	Standard
⎡>	**In-1**	**115**		ug/L				5860	1	KED
⎢	**Cd**	**111**		ug/L				2	65	KED
⎣	**Cd**	**114**		ug/L				6	64	KED
⎡>	**Tb**	**159**		ug/L				480478	3	Standard
⎣	**Pb**	**208**		ug/L				115	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:29:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30410	1	Standard
	Cl	**37**		ug/L			3324914	3533632	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	415267	1	Standard
⎢	**Cr**	**52**	**50.339**	ug/L	0.745	1	16311	848570	2	Standard
⎢	**Cr**	**53**	**50.964**	ug/L	0.136	0	93	98439	2	Standard
⎣	**Mn**	**55**	**51.220**	ug/L	0.873	1	527	1227305	0	Standard
⎡>	**Ge**	**72**		ug/L			20993	20455	1	KED
⎢	**Ni**	**60**	**52.423**	ug/L	1.522	2	13	47904	1	KED
⎢	**Ni**	**62**	**50.669**	ug/L	0.498	0	8	7599	1	KED
⎢	**Cu**	**63**	**50.445**	ug/L	1.112	2	34	137412	1	KED
⎢	**Cu**	**65**	**52.156**	ug/L	0.999	1	19	70164	1	KED
⎢	**Zn**	**66**	**52.910**	ug/L	1.068	2	36	19145	0	KED
⎢	**Zn**	**67**	**50.709**	ug/L	3.410	6	4	3132	6	KED
⎣	**As**	**75**	**51.420**	ug/L	0.890	1	5	9376	0	KED
	Y	**89**		ug/L			210865	201534	0	Standard
	Kr	**83**		ug/L			43	54	27	Standard
⎡>	**In-1**	**115**		ug/L			5860	5660	2	KED
⎢	**Cd**	**111**	**51.014**	ug/L	1.517	2	2	10458	1	KED
⎣	**Cd**	**114**	**51.849**	ug/L	2.429	4	6	25813	2	KED
⎡>	**Tb**	**159**		ug/L			480478	479037	3	Standard
⎣	**Pb**	**208**	**53.159**	ug/L	1.813	3	115	2114474	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:36:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31165	2	Standard
	Cl	**37**		ug/L			3324914	3329784	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	426875	1	Standard
|	**Cr**	**52**	**-0.005**	ug/L	0.012	246	16311	16356	2	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.004	173	93	89	8	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.002	284	527	544	6	Standard
⌈>	**Ge**	**72**		ug/L			20993	20742	3	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.004	217	13	12	36	KED
|	**Ni**	**62**	**-0.037**	ug/L	0.007	17	8	2	43	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.006	299	34	28	52	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	200	19	17	29	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.025	715	36	34	24	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.002	19	4	3	0	KED
⌊	**As**	**75**	**0.000**	ug/L	0.006	2281	5	5	22	KED
	Y	**89**		ug/L			210865	208508	2	Standard
	Kr	**83**		ug/L			43	39	12	Standard
⌈>	**In-1**	**115**		ug/L			5860	5855	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.000	1	2	0		KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.004	58	6	2	90	KED
⌈>	**Tb**	**159**		ug/L			480478	486295	4	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	79	115	144	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-32
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:40:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	47430	1	Standard
	Cl	37		ug/L			3324914	3368037	1	Standard
>	Sc	45		ug/L			423672	601779	0	Standard
	Cr	52	16.522	ug/L	0.372	2	16311	419148	1	Standard
	Cr	53	16.646	ug/L	0.181	1	93	46679	0	Standard
	Mn	55	327.325	ug/L	7.378	2	527	11363166	1	Standard
>	Ge	72		ug/L			20993	21197	3	KED
	Ni	60	16.507	ug/L	0.507	3	13	15641	3	KED
	Ni	62	16.177	ug/L	0.634	3	8	2518	1	KED
	Cu	63	51.946	ug/L	1.767	3	34	146561	0	KED
	Cu	65	52.307	ug/L	2.288	4	19	72866	1	KED
	Zn	66	195.429	ug/L	7.415	3	36	73139	0	KED
	Zn	67	181.352	ug/L	1.323	0	4	11598	2	KED
	As	75	8.616	ug/L	0.464	5	5	1631	2	KED
	Y	89		ug/L			210865	532450	2	Standard
	Kr	83		ug/L			43	184	6	Standard
>	In-1	115		ug/L			5860	5959	1	KED
	Cd	111	0.320	ug/L	0.013	3	2	71	3	KED
	Cd	114	0.335	ug/L	0.034	10	6	182	11	KED
>	Tb	159		ug/L			480478	513542	3	Standard
	Pb	208	31.833	ug/L	1.256	3	115	1357412	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-33
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:45:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	46760	2	Standard
	Cl	37		ug/L			3324914	3370349	2	Standard
>	Sc	45		ug/L			423672	616916	7	Standard
	Cr	52	18.433	ug/L	0.905	4	16311	475752	4	Standard
	Cr	53	18.375	ug/L	0.837	4	93	52704	3	Standard
	Mn	55	328.329	ug/L	21.549	6	527	11648759	0	Standard
>	Ge	72		ug/L			20993	21133	1	KED
	Ni	60	17.603	ug/L	0.206	1	13	16631	0	KED
	Ni	62	17.939	ug/L	0.688	3	8	2784	2	KED
	Cu	63	39.902	ug/L	0.541	1	34	112315	1	KED
	Cu	65	41.396	ug/L	1.102	2	19	57544	2	KED
	Zn	66	129.299	ug/L	0.136	0	36	48294	1	KED
	Zn	67	135.131	ug/L	3.443	2	4	8617	2	KED
	As	75	4.152	ug/L	0.070	1	5	787	2	KED
	Y	89		ug/L			210865	562736	4	Standard
	Kr	83		ug/L			43	194	3	Standard
>	In-1	115		ug/L			5860	5645	2	KED
	Cd	111	0.253	ug/L	0.012	4	2	53	5	KED
	Cd	114	0.258	ug/L	0.028	10	6	134	11	KED
>	Tb	159		ug/L			480478	509158	8	Standard
	Pb	208	26.696	ug/L	1.971	7	115	1125158	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-34
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:49:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	53033	2	Standard
	Cl	37		ug/L			3324914	3435881	2	Standard
>	Sc	45		ug/L			423672	639136	2	Standard
	Cr	52	15.610	ug/L	0.268	1	16311	421929	1	Standard
	Cr	53	15.992	ug/L	0.334	2	93	47629	2	Standard
	Mn	55	366.184	ug/L	3.439	0	527	13500947	1	Standard
>	Ge	72		ug/L			20993	20959	1	KED
	Ni	60	19.547	ug/L	0.592	3	13	18311	1	KED
	Ni	62	18.803	ug/L	0.613	3	8	2894	2	KED
	Cu	63	33.498	ug/L	0.229	0	34	93520	0	KED
	Cu	65	34.601	ug/L	0.928	2	19	47696	1	KED
	Zn	66	135.814	ug/L	2.312	1	36	50306	2	KED
	Zn	67	129.502	ug/L	4.251	3	4	8192	4	KED
	As	75	3.670	ug/L	0.067	1	5	690	0	KED
	Y	89		ug/L			210865	586010	1	Standard
	Kr	83		ug/L			43	198	7	Standard
>	In-1	115		ug/L			5860	5826	3	KED
	Cd	111	0.237	ug/L	0.042	17	2	52	13	KED
	Cd	114	0.226	ug/L	0.040	17	6	122	16	KED
>	Tb	159		ug/L			480478	509025	4	Standard
	Pb	208	22.278	ug/L	0.970	4	115	941331	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-35
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:53:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	53495	1	Standard
Cl	37		ug/L			3324914	3442905	3	Standard
> Sc	45		ug/L			423672	649120	1	Standard
Cr	52	16.129	ug/L	0.165	1	16311	441961	0	Standard
Cr	53	16.446	ug/L	0.311	1	93	49740	0	Standard
Mn	55	352.484	ug/L	7.758	2	527	13197249	0	Standard
> Ge	72		ug/L			20993	21571	0	KED
Ni	60	19.398	ug/L	0.279	1	13	18708	1	KED
Ni	62	19.245	ug/L	1.152	5	8	3049	5	KED
Cu	63	33.397	ug/L	0.874	2	34	95960	2	KED
Cu	65	34.057	ug/L	0.866	2	19	48327	2	KED
Zn	66	119.194	ug/L	1.225	1	36	45446	1	KED
Zn	67	115.284	ug/L	4.312	3	4	7506	4	KED
As	75	3.665	ug/L	0.052	1	5	710	1	KED
Y	89		ug/L			210865	596151	1	Standard
Kr	83		ug/L			43	217	4	Standard
> In-1	115		ug/L			5860	5762	3	KED
Cd	111	0.243	ug/L	0.016	6	2	53	7	KED
Cd	114	0.257	ug/L	0.014	5	6	136	2	KED
> Tb	159		ug/L			480478	512855	1	Standard
Pb	208	23.389	ug/L	0.661	2	115	996579	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-36
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:58:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	51564	1	Standard
	Cl	37		ug/L			3324914	3466463	0	Standard
>	Sc	45		ug/L			423672	618270	1	Standard
	Cr	52	15.229	ug/L	0.337	2	16311	398784	1	Standard
	Cr	53	15.418	ug/L	0.190	1	93	44429	0	Standard
	Mn	55	235.788	ug/L	5.491	2	527	8409526	1	Standard
>	Ge	72		ug/L			20993	20958	0	KED
	Ni	60	22.558	ug/L	0.091	0	13	21134	0	KED
	Ni	62	21.853	ug/L	0.428	1	8	3362	1	KED
	Cu	63	27.442	ug/L	0.702	2	34	76617	2	KED
	Cu	65	28.159	ug/L	0.302	1	19	38827	0	KED
	Zn	66	103.456	ug/L	2.217	2	36	38326	1	KED
	Zn	67	102.675	ug/L	1.600	1	4	6494	1	KED
	As	75	2.435	ug/L	0.090	3	5	460	3	KED
	Y	89		ug/L			210865	490363	1	Standard
	Kr	83		ug/L			43	172	18	Standard
>	In-1	115		ug/L			5860	5712	2	KED
	Cd	111	0.113	ug/L	0.040	35	2	25	33	KED
	Cd	114	0.114	ug/L	0.007	6	6	63	7	KED
>	Tb	159		ug/L			480478	520040	1	Standard
	Pb	208	15.939	ug/L	0.349	2	115	688799	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-38
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:02:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	56130	2	Standard
Cl	37		ug/L			3324914	3449843	1	Standard
> Sc	45		ug/L			423672	655524	3	Standard
Cr	52	15.694	ug/L	0.226	1	16311	434877	2	Standard
Cr	53	15.833	ug/L	0.337	2	93	48350	1	Standard
Mn	55	251.145	ug/L	6.787	2	527	9492078	0	Standard
> Ge	72		ug/L			20993	22152	2	KED
Ni	60	21.680	ug/L	0.609	2	13	21461	1	KED
Ni	62	21.291	ug/L	0.602	2	8	3462	2	KED
Cu	63	24.189	ug/L	0.437	1	34	71367	0	KED
Cu	65	24.245	ug/L	0.176	0	19	35335	1	KED
Zn	66	49.693	ug/L	1.295	2	36	19470	0	KED
Zn	67	56.025	ug/L	2.006	3	4	3745	1	KED
As	75	2.313	ug/L	0.089	3	5	462	1	KED
Y	89		ug/L			210865	583850	0	Standard
Kr	83		ug/L			43	213	12	Standard
> In-1	115		ug/L			5860	5981	1	KED
Cd	111	0.069	ug/L	0.010	14	2	17	11	KED
Cd	114	0.056	ug/L	0.020	36	6	35	28	KED
> Tb	159		ug/L			480478	530328	2	Standard
Pb	208	4.009	ug/L	0.093	2	115	176724	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-39
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:06:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	52735	1	Standard
	Cl	37		ug/L			3324914	3391437	0	Standard
>	Sc	45		ug/L			423672	626958	1	Standard
	Cr	52	14.503	ug/L	0.069	0	16311	386284	1	Standard
	Cr	53	14.505	ug/L	0.222	1	93	42393	1	Standard
	Mn	55	240.178	ug/L	4.785	1	527	8686024	1	Standard
>	Ge	72		ug/L			20993	21421	1	KED
	Ni	60	18.640	ug/L	0.499	2	13	17847	1	KED
	Ni	62	19.561	ug/L	0.726	3	8	3076	2	KED
	Cu	63	22.002	ug/L	0.417	1	34	62784	0	KED
	Cu	65	22.445	ug/L	0.957	4	19	31621	2	KED
	Zn	66	46.606	ug/L	1.024	2	36	17664	1	KED
	Zn	67	53.270	ug/L	0.470	0	4	3446	1	KED
	As	75	2.073	ug/L	0.084	4	5	401	2	KED
	Y	89		ug/L			210865	578527	1	Standard
	Kr	83		ug/L			43	182	8	Standard
>	In-1	115		ug/L			5860	5952	2	KED
	Cd	111	0.065	ug/L	0.021	32	2	16	25	KED
	Cd	114	0.054	ug/L	0.013	23	6	34	20	KED
>	Tb	159		ug/L			480478	530871	3	Standard
	Pb	208	3.832	ug/L	0.120	3	115	169043	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:11:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	50097	1	Standard
	Cl	37		ug/L			3324914	3416962	0	Standard
>	Sc	45		ug/L			423672	579814	3	Standard
	Cr	52	13.140	ug/L	0.413	3	16311	325653	2	Standard
	Cr	53	13.489	ug/L	0.346	2	93	36455	1	Standard
	Mn	55	210.954	ug/L	3.243	1	527	7054531	1	Standard
>	Ge	72		ug/L			20993	21340	1	KED
	Ni	60	14.865	ug/L	0.177	1	13	14185	1	KED
	Ni	62	15.054	ug/L	0.633	4	8	2360	3	KED
	Cu	63	17.656	ug/L	0.427	2	34	50196	1	KED
	Cu	65	17.539	ug/L	0.382	2	19	24626	0	KED
	Zn	66	37.973	ug/L	1.030	2	36	14343	1	KED
	Zn	67	43.334	ug/L	1.166	2	4	2794	4	KED
	As	75	2.114	ug/L	0.086	4	5	407	3	KED
	Y	89		ug/L			210865	504175	1	Standard
	Kr	83		ug/L			43	146	9	Standard
>	In-1	115		ug/L			5860	5735	2	KED
	Cd	111	0.062	ug/L	0.016	25	2	14	19	KED
	Cd	114	0.071	ug/L	0.019	27	6	41	21	KED
>	Tb	159		ug/L			480478	507146	3	Standard
	Pb	208	3.376	ug/L	0.111	3	115	142276	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:15:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	59899	1	Standard
	Cl	37		ug/L			3324914	3412739	1	Standard
>	Sc	45		ug/L			423672	621114	0	Standard
	Cr	52	14.759	ug/L	0.388	2	16311	389062	2	Standard
	Cr	53	15.083	ug/L	0.258	1	93	43672	2	Standard
	Mn	55	219.746	ug/L	5.425	2	527	7875162	2	Standard
>	Ge	72		ug/L			20993	20560	0	KED
	Ni	60	19.248	ug/L	0.084	0	13	17694	0	KED
	Ni	62	19.239	ug/L	0.382	1	8	2905	2	KED
	Cu	63	21.316	ug/L	0.161	0	34	58394	0	KED
	Cu	65	21.715	ug/L	0.462	2	19	29378	1	KED
	Zn	66	46.140	ug/L	1.378	2	36	16790	3	KED
	Zn	67	52.541	ug/L	1.287	2	4	3262	2	KED
	As	75	2.213	ug/L	0.064	2	5	411	2	KED
	Y	89		ug/L			210865	563606	1	Standard
	Kr	83		ug/L			43	180	8	Standard
>	In-1	115		ug/L			5860	5618	1	KED
	Cd	111	0.069	ug/L	0.005	7	2	16	5	KED
	Cd	114	0.047	ug/L	0.010	20	6	29	16	KED
>	Tb	159		ug/L			480478	517401	1	Standard
	Pb	208	3.772	ug/L	0.088	2	115	162252	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:20:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	56661	0	Standard
	Cl	37		ug/L			3324914	3307978	1	Standard
>	Sc	45		ug/L			423672	586636	1	Standard
	Cr	52	15.760	ug/L	0.120	0	16311	390865	2	Standard
	Cr	53	15.567	ug/L	0.186	1	93	42563	1	Standard
	Mn	55	228.346	ug/L	2.803	1	527	7727400	0	Standard
>	Ge	72		ug/L			20993	20967	0	KED
	Ni	60	16.033	ug/L	0.324	2	13	15030	1	KED
	Ni	62	15.699	ug/L	0.381	2	8	2419	1	KED
	Cu	63	158.739	ug/L	3.297	2	34	443279	2	KED
	Cu	65	157.610	ug/L	3.790	2	19	217311	1	KED
	Zn	66	119.814	ug/L	0.740	0	36	44402	0	KED
	Zn	67	117.694	ug/L	0.712	0	4	7447	0	KED
	As	75	3.950	ug/L	0.136	3	5	743	2	KED
	Y	89		ug/L			210865	490065	1	Standard
	Kr	83		ug/L			43	151	13	Standard
>	In-1	115		ug/L			5860	5856	0	KED
	Cd	111	0.150	ug/L	0.016	10	2	33	9	KED
	Cd	114	0.120	ug/L	0.044	36	6	68	33	KED
>	Tb	159		ug/L			480478	499582	4	Standard
	Pb	208	17.333	ug/L	0.748	4	115	718816	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:27:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	32965	3	Standard
	Cl	**37**		ug/L			3324914	3611272	1	Standard
⎡>	**Sc**	**45**		ug/L			423672	441521	1	Standard
⎢	**Cr**	**52**	**51.036**	ug/L	0.636	1	16311	914511	1	Standard
⎢	**Cr**	**53**	**51.230**	ug/L	0.666	1	93	105210	2	Standard
⎣	**Mn**	**55**	**51.491**	ug/L	0.290	0	527	1312008	1	Standard
⎡>	**Ge**	**72**		ug/L			20993	21313	1	KED
⎢	**Ni**	**60**	**50.124**	ug/L	0.848	1	13	47731	1	KED
⎢	**Ni**	**62**	**50.043**	ug/L	1.188	2	8	7818	0	KED
⎢	**Cu**	**63**	**49.092**	ug/L	0.841	1	34	139333	0	KED
⎢	**Cu**	**65**	**50.442**	ug/L	1.435	2	19	70693	1	KED
⎢	**Zn**	**66**	**51.093**	ug/L	0.763	1	36	19267	2	KED
⎢	**Zn**	**67**	**50.557**	ug/L	0.661	1	4	3254	1	KED
⎣	**As**	**75**	**49.405**	ug/L	1.132	2	5	9386	1	KED
	Y	**89**		ug/L			210865	215921	2	Standard
	Kr	**83**		ug/L			43	60	5	Standard
⎡>	**In-1**	**115**		ug/L			5860	6118	2	KED
⎢	**Cd**	**111**	**50.653**	ug/L	1.044	2	2	11225	0	KED
⎣	**Cd**	**114**	**50.722**	ug/L	0.820	1	6	27308	1	KED
⎡>	**Tb**	**159**		ug/L			480478	497473	4	Standard
⎣	**Pb**	**208**	**53.836**	ug/L	1.820	3	115	2223547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:34:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30093	0	Standard
	Cl	**37**		ug/L			3324914	3264181	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	404319	0	Standard
⎢	**Cr**	**52**	**-0.006**	ug/L	0.024	395	16311	15466	1	Standard
⎢	**Cr**	**53**	**-0.000**	ug/L	0.006	1340	93	88	13	Standard
⎣	**Mn**	**55**	**0.004**	ug/L	0.000	10	527	602	1	Standard
⎡>	**Ge**	**72**		ug/L			20993	20183	2	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.002	2748	13	13	14	KED
⎢	**Ni**	**62**	**-0.028**	ug/L	0.013	46	8	3	50	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.004	171	34	26	47	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.002	66	19	13	20	KED
⎢	**Zn**	**66**	**-0.039**	ug/L	0.015	39	36	20	24	KED
⎢	**Zn**	**67**	**-0.018**	ug/L	0.065	365	4	3	124	KED
⎣	**As**	**75**	**0.012**	ug/L	0.002	19	5	7	6	KED
	Y	**89**		ug/L			210865	198781	1	Standard
	Kr	**83**		ug/L			43	51	16	Standard
⎡>	**In-1**	**115**		ug/L			5860	5576	1	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.010	364	2	1	124	KED
⎣	**Cd**	**114**	**-0.008**	ug/L	0.004	47	6	1	101	KED
⎡>	**Tb**	**159**		ug/L			480478	458416	1	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	158	115	112	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:39:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	53197	2	Standard
Cl	37		ug/L			3324914	3384197	1	Standard
> Sc	45		ug/L			423672	619722	2	Standard
Cr	52	14.181	ug/L	0.276	1	16311	373894	2	Standard
Cr	53	14.477	ug/L	0.071	0	93	41824	1	Standard
Mn	55	251.992	ug/L	0.481	0	527	9009600	1	Standard
> Ge	72		ug/L			20993	21749	2	KED
Ni	60	16.085	ug/L	0.374	2	13	15637	0	KED
Ni	62	16.292	ug/L	0.561	3	8	2603	3	KED
Cu	63	82.253	ug/L	1.968	2	34	238173	1	KED
Cu	65	83.079	ug/L	2.891	3	19	118773	0	KED
Zn	66	85.056	ug/L	2.781	3	36	32690	0	KED
Zn	67	85.857	ug/L	0.420	0	4	5637	2	KED
As	75	3.251	ug/L	0.179	5	5	635	2	KED
Y	89		ug/L			210865	524566	2	Standard
Kr	83		ug/L			43	171	16	Standard
> In-1	115		ug/L			5860	5843	2	KED
Cd	111	0.126	ug/L	0.020	15	2	28	16	KED
Cd	114	0.129	ug/L	0.030	23	6	72	19	KED
> Tb	159		ug/L			480478	510610	3	Standard
Pb	208	9.229	ug/L	0.316	3	115	391442	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:43:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	51865	3	Standard
Cl	37		ug/L			3324914	3366801	1	Standard
> Sc	45		ug/L			423672	620310	2	Standard
Cr	52	15.786	ug/L	0.255	1	16311	413795	1	Standard
Cr	53	15.909	ug/L	0.372	2	93	45977	1	Standard
Mn	55	279.736	ug/L	5.804	2	527	10007123	0	Standard
> Ge	72		ug/L			20993	21035	1	KED
Ni	60	17.930	ug/L	0.280	1	13	16862	1	KED
Ni	62	18.359	ug/L	0.316	1	8	2836	0	KED
Cu	63	147.537	ug/L	2.988	2	34	413272	2	KED
Cu	65	151.990	ug/L	3.177	2	19	210210	0	KED
Zn	66	166.818	ug/L	3.578	2	36	61992	0	KED
Zn	67	157.778	ug/L	3.633	2	4	10012	0	KED
As	75	3.962	ug/L	0.091	2	5	748	3	KED
Y	89		ug/L			210865	527866	0	Standard
Kr	83		ug/L			43	186	2	Standard
> In-1	115		ug/L			5860	5743	1	KED
Cd	111	0.183	ug/L	0.020	11	2	40	11	KED
Cd	114	0.137	ug/L	0.032	23	6	75	22	KED
> Tb	159		ug/L			480478	505546	4	Standard
Pb	208	18.854	ug/L	0.585	3	115	791521	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:47:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	66838	2	Standard
	Cl	37		ug/L			3324914	3396536	2	Standard
>	Sc	45		ug/L			423672	614888	1	Standard
	Cr	52	16.477	ug/L	0.220	1	16311	427204	1	Standard
	Cr	53	16.367	ug/L	0.362	2	93	46902	2	Standard
	Mn	55	344.942	ug/L	3.316	0	527	12235528	0	Standard
>	Ge	72		ug/L			20993	21055	2	KED
	Ni	60	17.420	ug/L	0.048	0	13	16399	2	KED
	Ni	62	17.887	ug/L	0.303	1	8	2766	1	KED
	Cu	63	299.634	ug/L	4.088	1	34	840080	1	KED
	Cu	65	303.440	ug/L	4.792	1	19	420097	1	KED
	Zn	66	267.295	ug/L	5.754	2	36	99429	2	KED
	Zn	67	251.381	ug/L	4.551	1	4	15972	3	KED
	As	75	7.441	ug/L	0.100	1	5	1402	3	KED
	Y	89		ug/L			210865	524948	1	Standard
	Kr	83		ug/L			43	177	4	Standard
>	In-1	115		ug/L			5860	5742	1	KED
	Cd	111	0.235	ug/L	0.015	6	2	51	4	KED
	Cd	114	0.264	ug/L	0.049	18	6	139	18	KED
>	Tb	159		ug/L			480478	510693	3	Standard
	Pb	208	31.171	ug/L	1.169	3	115	1321876	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:52:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	60756	3	Standard
	Cl	37		ug/L			3324914	3487794	2	Standard
>	Sc	45		ug/L			423672	658659	1	Standard
	Cr	52	19.231	ug/L	0.104	0	16311	529891	1	Standard
	Cr	53	19.629	ug/L	0.337	1	93	60229	2	Standard
	Mn	55	312.870	ug/L	3.636	1	527	11889927	2	Standard
>	Ge	72		ug/L			20993	20872	1	KED
	Ni	60	20.331	ug/L	0.362	1	13	18971	2	KED
	Ni	62	20.419	ug/L	0.229	1	8	3129	1	KED
	Cu	63	174.617	ug/L	5.353	3	34	485202	1	KED
	Cu	65	177.058	ug/L	1.385	0	19	243025	1	KED
	Zn	66	172.556	ug/L	6.360	3	36	63623	2	KED
	Zn	67	171.433	ug/L	3.933	2	4	10794	0	KED
	As	75	3.678	ug/L	0.143	3	5	689	2	KED
	Y	89		ug/L			210865	578852	0	Standard
	Kr	83		ug/L			43	184	4	Standard
>	In-1	115		ug/L			5860	5582	2	KED
	Cd	111	0.298	ug/L	0.068	22	2	62	24	KED
	Cd	114	0.265	ug/L	0.039	14	6	135	13	KED
>	Tb	159		ug/L			480478	532396	1	Standard
	Pb	208	43.157	ug/L	1.236	2	115	1909113	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-18
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:56:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	58924	1	Standard
Cl	37		ug/L			3324914	3370048	0	Standard
> Sc	45		ug/L			423672	617373	0	Standard
Cr	52	21.832	ug/L	0.177	0	16311	560643	1	Standard
Cr	53	21.714	ug/L	0.394	1	93	62433	2	Standard
Mn	55	265.880	ug/L	1.343	0	527	9470337	0	Standard
> Ge	72		ug/L			20993	21074	1	KED
Ni	60	21.377	ug/L	0.131	0	13	20140	1	KED
Ni	62	21.451	ug/L	0.056	0	8	3319	1	KED
Cu	63	128.660	ug/L	0.628	0	34	361106	1	KED
Cu	65	130.741	ug/L	1.364	1	19	181193	0	KED
Zn	66	227.423	ug/L	0.447	0	36	84680	1	KED
Zn	67	215.190	ug/L	5.001	2	4	13680	1	KED
As	75	3.876	ug/L	0.103	2	5	733	2	KED
Y	89		ug/L			210865	554098	2	Standard
Kr	83		ug/L			43	175	5	Standard
> In-1	115		ug/L			5860	5813	0	KED
Cd	111	0.338	ug/L	0.039	11	2	73	11	KED
Cd	114	0.341	ug/L	0.006	1	6	180	1	KED
> Tb	159		ug/L			480478	501633	3	Standard
Pb	208	67.113	ug/L	2.232	3	115	2795636	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:01:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	55879	5	Standard
	Cl	37		ug/L			3324914	3391724	1	Standard
>	Sc	45		ug/L			423672	584864	1	Standard
	Cr	52	17.323	ug/L	0.138	0	16311	426093	2	Standard
	Cr	53	17.444	ug/L	0.175	1	93	47536	1	Standard
	Mn	55	256.429	ug/L	4.069	1	527	8650925	0	Standard
>	Ge	72		ug/L			20993	21016	0	KED
	Ni	60	15.312	ug/L	0.363	2	13	14388	1	KED
	Ni	62	15.874	ug/L	0.508	3	8	2452	3	KED
	Cu	63	64.773	ug/L	0.745	1	34	181300	0	KED
	Cu	65	64.950	ug/L	1.139	1	19	89777	1	KED
	Zn	66	164.267	ug/L	1.606	0	36	61003	0	KED
	Zn	67	156.623	ug/L	1.698	1	4	9932	1	KED
	As	75	4.273	ug/L	0.070	1	5	805	1	KED
	Y	89		ug/L			210865	476907	0	Standard
	Kr	83		ug/L			43	163	5	Standard
>	In-1	115		ug/L			5860	5596	2	KED
	Cd	111	0.273	ug/L	0.027	10	2	57	11	KED
	Cd	114	0.279	ug/L	0.035	12	6	143	11	KED
>	Tb	159		ug/L			480478	497986	2	Standard
	Pb	208	22.666	ug/L	0.532	2	115	937763	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:05:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	57831	1	Standard
	Cl	37		ug/L			3324914	3420381	1	Standard
>	Sc	45		ug/L			423672	598825	2	Standard
	Cr	52	25.556	ug/L	0.604	2	16311	632401	1	Standard
	Cr	53	25.854	ug/L	0.428	1	93	72062	2	Standard
	Mn	55	295.355	ug/L	4.829	1	527	10200949	1	Standard
>	Ge	72		ug/L			20993	21303	3	KED
	Ni	60	17.800	ug/L	0.779	4	13	16947	4	KED
	Ni	62	17.679	ug/L	0.306	1	8	2765	2	KED
	Cu	63	69.250	ug/L	2.212	3	34	196362	2	KED
	Cu	65	69.809	ug/L	0.421	0	19	97819	3	KED
	Zn	66	177.891	ug/L	3.546	1	36	66932	2	KED
	Zn	67	188.821	ug/L	0.844	0	4	12138	4	KED
	As	75	4.955	ug/L	0.133	2	5	945	1	KED
	Y	89		ug/L			210865	515122	1	Standard
	Kr	83		ug/L			43	168	14	Standard
>	In-1	115		ug/L			5860	5688	2	KED
	Cd	111	0.332	ug/L	0.019	5	2	70	3	KED
	Cd	114	0.302	ug/L	0.037	12	6	157	11	KED
>	Tb	159		ug/L			480478	507345	2	Standard
	Pb	208	35.143	ug/L	0.833	2	115	1481052	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:09:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	56409	4	Standard
Cl	37		ug/L			3324914	3493037	0	Standard
Sc	45		ug/L			423672	588963	2	Standard
Cr	52	16.558	ug/L	0.195	1	16311	411058	1	Standard
Cr	53	16.775	ug/L	0.056	0	93	46038	1	Standard
Mn	55	268.768	ug/L	7.479	2	527	9129249	0	Standard
Ge	72		ug/L			20993	21042	0	KED
Ni	60	17.956	ug/L	0.120	0	13	16893	0	KED
Ni	62	17.686	ug/L	0.379	2	8	2734	1	KED
Cu	63	38.342	ug/L	0.262	0	34	107475	1	KED
Cu	65	38.931	ug/L	0.301	0	19	53892	1	KED
Zn	66	112.545	ug/L	2.026	1	36	41861	2	KED
Zn	67	140.182	ug/L	1.154	0	4	8901	0	KED
As	75	3.268	ug/L	0.158	4	5	618	4	KED
Y	89		ug/L			210865	498858	1	Standard
Kr	83		ug/L			43	129	14	Standard
In-1	115		ug/L			5860	5514	1	KED
Cd	111	0.256	ug/L	0.041	16	2	53	16	KED
Cd	114	0.276	ug/L	0.032	11	6	139	10	KED
Tb	159		ug/L			480478	508471	5	Standard
Pb	208	26.628	ug/L	1.257	4	115	1123426	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-25
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:14:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	55168	1	Standard
Cl	37		ug/L			3324914	3440549	2	Standard
Sc	45		ug/L			423672	635485	1	Standard
Cr	52	16.070	ug/L	0.229	1	16311	431248	2	Standard
Cr	53	16.360	ug/L	0.150	0	93	48452	1	Standard
Mn	55	334.114	ug/L	9.380	2	527	12247891	2	Standard
Ge	72		ug/L			20993	20516	2	KED
Ni	60	17.893	ug/L	0.574	3	13	16407	1	KED
Ni	62	17.766	ug/L	0.354	1	8	2677	2	KED
Cu	63	43.485	ug/L	0.688	1	34	118813	0	KED
Cu	65	44.186	ug/L	1.622	3	19	59607	2	KED
Zn	66	145.151	ug/L	3.640	2	36	52615	1	KED
Zn	67	137.829	ug/L	4.325	3	4	8530	1	KED
As	75	3.428	ug/L	0.128	3	5	632	4	KED
Y	89		ug/L			210865	577981	0	Standard
Kr	83		ug/L			43	187	14	Standard
In-1	115		ug/L			5860	5625	1	KED
Cd	111	0.293	ug/L	0.023	7	2	61	6	KED
Cd	114	0.273	ug/L	0.018	6	6	141	6	KED
Tb	159		ug/L			480478	518871	1	Standard
Pb	208	30.997	ug/L	0.795	2	115	1336219	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-26
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:18:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	58886	0	Standard
Cl	37		ug/L			3324914	3401391	1	Standard
> Sc	45		ug/L			423672	611363	1	Standard
Cr	52	14.816	ug/L	0.184	1	16311	384341	2	Standard
Cr	53	14.908	ug/L	0.240	1	93	42493	2	Standard
Mn	55	330.629	ug/L	5.954	1	527	11660014	0	Standard
> Ge	72		ug/L			20993	21424	0	KED
Ni	60	17.286	ug/L	0.269	1	13	16560	1	KED
Ni	62	17.264	ug/L	0.386	2	8	2717	2	KED
Cu	63	35.504	ug/L	0.371	1	34	101332	1	KED
Cu	65	35.814	ug/L	0.192	0	19	50476	0	KED
Zn	66	132.881	ug/L	1.609	1	36	50317	1	KED
Zn	67	126.361	ug/L	3.197	2	4	8170	2	KED
As	75	3.639	ug/L	0.152	4	5	700	4	KED
Y	89		ug/L			210865	564808	1	Standard
Kr	83		ug/L			43	184	16	Standard
> In-1	115		ug/L			5860	6013	1	KED
Cd	111	0.239	ug/L	0.025	10	2	54	10	KED
Cd	114	0.229	ug/L	0.033	14	6	127	14	KED
> Tb	159		ug/L			480478	514463	3	Standard
Pb	208	24.244	ug/L	0.723	2	115	1035773	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:26:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31867	2	Standard
	Cl	**37**		ug/L			3324914	3553555	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	411155	2	Standard
⎢	**Cr**	**52**	**50.318**	ug/L	0.946	1	16311	839634	0	Standard
⎢	**Cr**	**53**	**50.103**	ug/L	0.527	1	93	95819	2	Standard
⎣	**Mn**	**55**	**51.220**	ug/L	0.354	0	527	1215524	2	Standard
⎡>	**Ge**	**72**		ug/L			20993	20963	1	KED
⎢	**Ni**	**60**	**51.785**	ug/L	0.802	1	13	48508	1	KED
⎢	**Ni**	**62**	**51.093**	ug/L	0.143	0	8	7854	1	KED
⎢	**Cu**	**63**	**50.499**	ug/L	0.978	1	34	140988	1	KED
⎢	**Cu**	**65**	**50.551**	ug/L	0.872	1	19	69697	0	KED
⎢	**Zn**	**66**	**51.345**	ug/L	1.017	1	36	19046	2	KED
⎢	**Zn**	**67**	**51.179**	ug/L	1.281	2	4	3241	3	KED
⎣	**As**	**75**	**50.172**	ug/L	1.082	2	5	9376	0	KED
	Y	**89**		ug/L			210865	197236	2	Standard
	Kr	**83**		ug/L			43	57	11	Standard
⎡>	**In-1**	**115**		ug/L			5860	5407	1	KED
⎢	**Cd**	**111**	**51.898**	ug/L	0.494	0	2	10169	0	KED
⎣	**Cd**	**114**	**53.497**	ug/L	0.373	0	6	25468	1	KED
⎡>	**Tb**	**159**		ug/L			480478	467036	3	Standard
⎣	**Pb**	**208**	**53.906**	ug/L	1.877	3	115	2090397	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:33:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31022	3	Standard
	Cl	**37**		ug/L			3324914	3277195	0	Standard
⌈>	**Sc**	**45**		ug/L			423672	397897	0	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.027	190	16311	15541	1	Standard
|	**Cr**	**53**	**0.001**	ug/L	0.008	597	93	90	16	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.001	11	527	672	2	Standard
⌈>	**Ge**	**72**		ug/L			20993	20621	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.002	509	13	13	14	KED
|	**Ni**	**62**	**-0.008**	ug/L	0.029	375	8	6	62	KED
|	**Cu**	**63**	**0.006**	ug/L	0.004	60	34	50	20	KED
|	**Cu**	**65**	**0.007**	ug/L	0.003	43	19	29	15	KED
|	**Zn**	**66**	**0.059**	ug/L	0.039	65	36	57	25	KED
|	**Zn**	**67**	**0.032**	ug/L	0.064	198	4	6	62	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.004	61	5	4	19	KED
	Y	**89**		ug/L			210865	197843	2	Standard
	Kr	**83**		ug/L			43	52	20	Standard
⌈>	**In-1**	**115**		ug/L			5860	5695	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	95	2	1	34	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	74	6	3	69	KED
⌈>	**Tb**	**159**		ug/L			480478	452103	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	3	115	251	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-30
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:37:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	59152	4	Standard
	Cl	37		ug/L			3324914	3435177	4	Standard
>	Sc	45		ug/L			423672	584804	3	Standard
	Cr	52	17.182	ug/L	0.410	2	16311	422604	2	Standard
	Cr	53	17.075	ug/L	0.172	1	93	46541	4	Standard
	Mn	55	378.718	ug/L	6.523	1	527	12778607	3	Standard
>	Ge	72		ug/L			20993	20917	1	KED
	Ni	60	17.923	ug/L	0.525	2	13	16759	2	KED
	Ni	62	20.533	ug/L	0.531	2	8	3153	2	KED
	Cu	63	1040.504	ug/L	9.440	0	34	2898097	0	KED
	Cu	65	1018.154	ug/L	12.658	1	19	1400619	2	KED
	Zn	66	428.838	ug/L	5.562	1	36	158462	2	KED
	Zn	67	391.434	ug/L	4.387	1	4	24700	1	KED
	As	75	10.788	ug/L	0.234	2	5	2016	1	KED
	Y	89		ug/L			210865	490076	2	Standard
	Kr	83		ug/L			43	137	12	Standard
>	In-1	115		ug/L			5860	5735	2	KED
	Cd	111	0.409	ug/L	0.051	12	2	87	13	KED
	Cd	114	0.403	ug/L	0.045	11	6	209	12	KED
>	Tb	159		ug/L			480478	493534	5	Standard
	Pb	208	47.526	ug/L	2.114	4	115	1946023	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-31
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:41:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	48190	2	Standard
	Cl	37		ug/L			3324914	3410039	1	Standard
>	Sc	45		ug/L			423672	583149	2	Standard
	Cr	52	15.209	ug/L	0.071	0	16311	375698	1	Standard
	Cr	53	15.306	ug/L	0.087	0	93	41609	2	Standard
	Mn	55	230.551	ug/L	5.553	2	527	7755480	2	Standard
>	Ge	72		ug/L			20993	20832	1	KED
	Ni	60	18.975	ug/L	0.540	2	13	17669	1	KED
	Ni	62	19.450	ug/L	0.749	3	8	2976	4	KED
	Cu	63	157.229	ug/L	3.198	2	34	436143	1	KED
	Cu	65	161.552	ug/L	1.613	0	19	221341	1	KED
	Zn	66	103.568	ug/L	3.204	3	36	38133	2	KED
	Zn	67	101.228	ug/L	3.595	3	4	6363	2	KED
	As	75	2.563	ug/L	0.065	2	5	481	3	KED
	Y	89		ug/L			210865	512499	0	Standard
	Kr	83		ug/L			43	184	11	Standard
>	In-1	115		ug/L			5860	5524	3	KED
	Cd	111	0.132	ug/L	0.012	9	2	28	10	KED
	Cd	114	0.120	ug/L	0.021	17	6	64	13	KED
>	Tb	159		ug/L			480478	497159	3	Standard
	Pb	208	23.966	ug/L	0.629	2	115	989627	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-32
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:46:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	42321	3	Standard
	Cl	**37**		ug/L			3324914	3344335	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	528839	1	Standard
|	**Cr**	**52**	**10.027**	ug/L	0.221	2	16311	231560	2	Standard
|	**Cr**	**53**	**10.334**	ug/L	0.090	0	93	25513	1	Standard
⌊	**Mn**	**55**	**167.397**	ug/L	2.556	1	527	5107822	2	Standard
⌈>	**Ge**	**72**		ug/L			20993	21127	0	KED
|	**Ni**	**60**	**17.028**	ug/L	0.561	3	13	16083	2	KED
|	**Ni**	**62**	**17.093**	ug/L	0.584	3	8	2652	2	KED
|	**Cu**	**63**	**13.831**	ug/L	0.497	3	34	38938	2	KED
|	**Cu**	**65**	**13.620**	ug/L	0.392	2	19	18938	2	KED
|	**Zn**	**66**	**40.743**	ug/L	1.194	2	36	15237	2	KED
|	**Zn**	**67**	**43.857**	ug/L	0.767	1	4	2799	0	KED
⌊	**As**	**75**	**1.862**	ug/L	0.046	2	5	356	3	KED
	Y	**89**		ug/L			210865	443516	1	Standard
	Kr	**83**		ug/L			43	123	17	Standard
⌈>	**In-1**	**115**		ug/L			5860	5736	2	KED
|	**Cd**	**111**	**0.040**	ug/L	0.005	12	2	10	9	KED
⌊	**Cd**	**114**	**0.027**	ug/L	0.008	29	6	19	20	KED
⌈>	**Tb**	**159**		ug/L			480478	499603	3	Standard
⌊	**Pb**	**208**	**3.572**	ug/L	0.155	4	115	148265	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-33
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:50:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	46571	1	Standard
Cl	37		ug/L			3324914	3435162	1	Standard
> Sc	45		ug/L			423672	538074	0	Standard
Cr	52	10.112	ug/L	0.182	1	16311	237442	1	Standard
Cr	53	10.327	ug/L	0.033	0	93	25939	0	Standard
Mn	55	186.104	ug/L	3.535	1	527	5776941	1	Standard
> Ge	72		ug/L			20993	20762	2	KED
Ni	60	17.434	ug/L	0.532	3	13	16174	0	KED
Ni	62	16.741	ug/L	1.597	9	8	2549	6	KED
Cu	63	14.629	ug/L	0.298	2	34	40468	1	KED
Cu	65	14.902	ug/L	0.346	2	19	20356	0	KED
Zn	66	42.271	ug/L	2.748	6	36	15515	3	KED
Zn	67	46.612	ug/L	1.609	3	4	2922	2	KED
As	75	1.735	ug/L	0.090	5	5	326	3	KED
Y	89		ug/L			210865	494575	1	Standard
Kr	83		ug/L			43	135	14	Standard
> In-1	115		ug/L			5860	5511	4	KED
Cd	111	0.042	ug/L	0.016	36	2	10	24	KED
Cd	114	0.035	ug/L	0.014	40	6	23	34	KED
> Tb	159		ug/L			480478	497846	2	Standard
Pb	208	2.333	ug/L	0.078	3	115	96587	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:55:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	47978	1	Standard
Cl	37		ug/L			3324914	3428684	0	Standard
> Sc	45		ug/L			423672	547385	1	Standard
Cr	52	11.305	ug/L	0.195	1	16311	267509	0	Standard
Cr	53	11.410	ug/L	0.102	0	93	29141	0	Standard
Mn	55	204.057	ug/L	5.069	2	527	6442844	1	Standard
> Ge	72		ug/L			20993	20835	0	KED
Ni	60	16.911	ug/L	0.304	1	13	15754	1	KED
Ni	62	17.067	ug/L	0.392	2	8	2612	2	KED
Cu	63	18.217	ug/L	0.318	1	34	50577	1	KED
Cu	65	18.414	ug/L	0.250	1	19	25249	1	KED
Zn	66	82.995	ug/L	0.667	0	36	30574	0	KED
Zn	67	81.424	ug/L	3.657	4	4	5121	4	KED
As	75	3.418	ug/L	0.173	5	5	640	4	KED
Y	89		ug/L			210865	488291	1	Standard
Kr	83		ug/L			43	158	7	Standard
> In-1	115		ug/L			5860	5655	2	KED
Cd	111	0.114	ug/L	0.023	19	2	25	17	KED
Cd	114	0.124	ug/L	0.011	9	6	67	9	KED
> Tb	159		ug/L			480478	503350	3	Standard
Pb	208	9.375	ug/L	0.348	3	115	391984	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:59:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	52623	1	Standard
Cl	37		ug/L			3324914	3421904	1	Standard
> Sc	45		ug/L			423672	558781	2	Standard
Cr	52	12.347	ug/L	0.072	0	16311	296308	1	Standard
Cr	53	12.436	ug/L	0.215	1	93	32408	1	Standard
Mn	55	191.830	ug/L	0.459	0	527	6184482	2	Standard
> Ge	72		ug/L			20993	20928	1	KED
Ni	60	19.637	ug/L	0.053	0	13	18374	2	KED
Ni	62	18.816	ug/L	0.175	0	8	2892	2	KED
Cu	63	17.874	ug/L	0.477	2	34	49839	2	KED
Cu	65	18.632	ug/L	0.936	5	19	25647	3	KED
Zn	66	65.456	ug/L	0.326	0	36	24229	1	KED
Zn	67	68.077	ug/L	3.169	4	4	4300	4	KED
As	75	2.141	ug/L	0.093	4	5	404	3	KED
Y	89		ug/L			210865	499188	1	Standard
Kr	83		ug/L			43	168	6	Standard
> In-1	115		ug/L			5860	5564	0	KED
Cd	111	0.095	ug/L	0.011	11	2	21	11	KED
Cd	114	0.077	ug/L	0.015	19	6	43	17	KED
> Tb	159		ug/L			480478	493587	3	Standard
Pb	208	13.795	ug/L	0.345	2	115	565609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:03:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	46348	1	Standard
	Cl	37		ug/L			3324914	3429129	2	Standard
>	Sc	45		ug/L			423672	552050	1	Standard
	Cr	52	10.564	ug/L	0.091	0	16311	253507	1	Standard
	Cr	53	10.535	ug/L	0.259	2	93	27140	0	Standard
	Mn	55	171.028	ug/L	1.826	1	527	5446801	0	Standard
>	Ge	72		ug/L			20993	21205	2	KED
	Ni	60	18.315	ug/L	0.616	3	13	17357	2	KED
	Ni	62	17.864	ug/L	0.425	2	8	2783	3	KED
	Cu	63	15.363	ug/L	0.470	3	34	43403	2	KED
	Cu	65	15.543	ug/L	0.283	1	19	21694	3	KED
	Zn	66	47.926	ug/L	1.605	3	36	17984	3	KED
	Zn	67	50.322	ug/L	2.412	4	4	3221	3	KED
	As	75	2.000	ug/L	0.068	3	5	383	5	KED
	Y	89		ug/L			210865	613016	0	Standard
	Kr	83		ug/L			43	153	8	Standard
>	In-1	115		ug/L			5860	5884	1	KED
	Cd	111	0.040	ug/L	0.004	8	2	10	5	KED
	Cd	114	0.044	ug/L	0.010	21	6	29	15	KED
>	Tb	159		ug/L			480478	508235	3	Standard
	Pb	208	5.068	ug/L	0.178	3	115	213993	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:08:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	49808	1	Standard
	Cl	37		ug/L			3324914	3433582	0	Standard
>	Sc	45		ug/L			423672	580459	0	Standard
	Cr	52	15.332	ug/L	0.186	1	16311	376823	1	Standard
	Cr	53	15.527	ug/L	0.094	0	93	42009	1	Standard
	Mn	55	259.850	ug/L	4.345	1	527	8701827	1	Standard
>	Ge	72		ug/L			20993	20813	1	KED
	Ni	60	21.054	ug/L	0.414	1	13	19587	0	KED
	Ni	62	20.511	ug/L	1.219	5	8	3133	4	KED
	Cu	63	23.716	ug/L	0.404	1	34	65772	2	KED
	Cu	65	23.758	ug/L	0.203	0	19	32534	1	KED
	Zn	66	82.527	ug/L	1.292	1	36	30366	0	KED
	Zn	67	86.803	ug/L	1.844	2	4	5453	1	KED
	As	75	2.533	ug/L	0.052	2	5	475	1	KED
	Y	89		ug/L			210865	470527	2	Standard
	Kr	83		ug/L			43	176	6	Standard
>	In-1	115		ug/L			5860	5527	2	KED
	Cd	111	0.145	ug/L	0.019	12	2	31	10	KED
	Cd	114	0.143	ug/L	0.030	21	6	75	19	KED
>	Tb	159		ug/L			480478	492355	2	Standard
	Pb	208	19.863	ug/L	0.670	3	115	812292	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:12:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	55628	1	Standard
Cl	37		ug/L			3324914	3495838	2	Standard
> Sc	45		ug/L			423672	619912	1	Standard
Cr	52	17.326	ug/L	0.276	1	16311	451626	0	Standard
Cr	53	17.477	ug/L	0.170	0	93	50486	2	Standard
Mn	55	296.129	ug/L	1.479	0	527	10590734	1	Standard
> Ge	72		ug/L			20993	20654	1	KED
Ni	60	21.316	ug/L	0.309	1	13	19680	0	KED
Ni	62	20.963	ug/L	1.167	5	8	3178	4	KED
Cu	63	35.930	ug/L	1.052	2	34	98840	2	KED
Cu	65	36.339	ug/L	0.848	2	19	49367	1	KED
Zn	66	128.330	ug/L	1.419	1	36	46845	1	KED
Zn	67	123.723	ug/L	5.019	4	4	7710	3	KED
As	75	3.622	ug/L	0.116	3	5	672	2	KED
Y	89		ug/L			210865	534098	2	Standard
Kr	83		ug/L			43	182	16	Standard
> In-1	115		ug/L			5860	5439	0	KED
Cd	111	0.341	ug/L	0.010	2	2	69	2	KED
Cd	114	0.343	ug/L	0.038	10	6	170	10	KED
> Tb	159		ug/L			480478	501504	4	Standard
Pb	208	42.916	ug/L	1.362	3	115	1786980	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:17:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	53324	2	Standard
Cl	37		ug/L			3324914	3531376	1	Standard
> Sc	45		ug/L			423672	549194	1	Standard
Cr	52	9.678	ug/L	0.051	0	16311	232837	1	Standard
Cr	53	9.817	ug/L	0.167	1	93	25171	1	Standard
Mn	55	167.741	ug/L	0.708	0	527	5314942	1	Standard
> Ge	72		ug/L			20993	21306	0	KED
Ni	60	17.268	ug/L	0.496	2	13	16450	2	KED
Ni	62	16.962	ug/L	0.027	0	8	2655	0	KED
Cu	63	14.075	ug/L	0.122	0	34	39965	0	KED
Cu	65	14.496	ug/L	0.308	2	19	20330	2	KED
Zn	66	45.175	ug/L	0.389	0	36	17034	0	KED
Zn	67	46.107	ug/L	1.742	3	4	2967	3	KED
As	75	1.786	ug/L	0.028	1	5	344	1	KED
Y	89		ug/L			210865	541666	1	Standard
Kr	83		ug/L			43	123	12	Standard
> In-1	115		ug/L			5860	5660	0	KED
Cd	111	0.030	ug/L	0.005	17	2	8	13	KED
Cd	114	0.039	ug/L	0.005	12	6	25	9	KED
> Tb	159		ug/L			480478	508493	3	Standard
Pb	208	5.829	ug/L	0.221	3	115	246247	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:24:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31687	3	Standard
	Cl	**37**		ug/L			3324914	3528087	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	404925	2	Standard
|	**Cr**	**52**	**51.520**	ug/L	1.179	2	16311	846326	2	Standard
|	**Cr**	**53**	**51.090**	ug/L	1.275	2	93	96187	1	Standard
⌊	**Mn**	**55**	**51.365**	ug/L	0.640	1	527	1200132	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	19951	1	KED
|	**Ni**	**60**	**51.930**	ug/L	1.507	2	13	46286	1	KED
|	**Ni**	**62**	**51.456**	ug/L	0.981	1	8	7527	1	KED
|	**Cu**	**63**	**51.766**	ug/L	0.343	0	34	137551	0	KED
|	**Cu**	**65**	**52.294**	ug/L	1.483	2	19	68610	1	KED
|	**Zn**	**66**	**50.951**	ug/L	1.349	2	36	17982	1	KED
|	**Zn**	**67**	**53.035**	ug/L	1.493	2	4	3195	2	KED
⌊	**As**	**75**	**51.477**	ug/L	0.884	1	5	9157	1	KED
	Y	**89**		ug/L			210865	201459	0	Standard
	Kr	**83**		ug/L			43	40	17	Standard
⌈>	**In-1**	**115**		ug/L			5860	5557	1	KED
|	**Cd**	**111**	**51.054**	ug/L	0.731	1	2	10280	0	KED
⌊	**Cd**	**114**	**51.070**	ug/L	0.654	1	6	24983	0	KED
⌈>	**Tb**	**159**		ug/L			480478	460335	3	Standard
⌊	**Pb**	**208**	**54.571**	ug/L	1.494	2	115	2086351	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:31:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30209	2	Standard
	Cl	**37**		ug/L			3324914	3262902	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	394751	1	Standard
|	**Cr**	**52**	**-0.013**	ug/L	0.019	145	16311	14995	3	Standard
|	**Cr**	**53**	**-0.004**	ug/L	0.005	124	93	79	10	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.001	10	527	679	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	19446	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.001	54	13	10	10	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.014	52	8	3	50	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	29	34	43	9	KED
|	**Cu**	**65**	**0.007**	ug/L	0.007	97	19	27	32	KED
|	**Zn**	**66**	**0.060**	ug/L	0.028	46	36	53	16	KED
|	**Zn**	**67**	**0.070**	ug/L	0.035	49	4	8	26	KED
⌊	**As**	**75**	**0.005**	ug/L	0.015	270	5	6	38	KED
	Y	**89**		ug/L			210865	195241	1	Standard
	Kr	**83**		ug/L			43	55	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5455	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.010	112	2	3	50	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.006	194	6	4	68	KED
⌈>	**Tb**	**159**		ug/L			480478	441897	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	7	115	248	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0428-01RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:36:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	42631	2	Standard
	Cl	**37**		ug/L			3324914	3444399	3	Standard
⌈>	**Sc**	**45**		ug/L			423672	426178	3	Standard
|	**Cr**	**52**	**0.392**	ug/L	0.015	3	16311	23064	2	Standard
|	**Cr**	**53**	**0.443**	ug/L	0.005	1	93	971	2	Standard
⌊	**Mn**	**55**	**3.009**	ug/L	0.051	1	527	74487	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20143	1	KED
|	**Ni**	**60**	**1.065**	ug/L	0.036	3	13	972	5	KED
|	**Ni**	**62**	**1.083**	ug/L	0.077	7	8	167	5	KED
|	**Cu**	**63**	**0.981**	ug/L	0.020	2	34	2663	1	KED
|	**Cu**	**65**	**1.006**	ug/L	0.056	5	19	1350	4	KED
|	**Zn**	**66**	**1.912**	ug/L	0.101	5	36	714	3	KED
|	**Zn**	**67**	**4.395**	ug/L	0.285	6	4	271	4	KED
⌊	**As**	**75**	**0.518**	ug/L	0.012	2	5	98	3	KED
	Y	**89**		ug/L			210865	199294	5	Standard
	Kr	**83**		ug/L			43	42	9	Standard
⌈>	**In-1**	**115**		ug/L			5860	5564	1	KED
|	**Cd**	**111**	**0.016**	ug/L	0.013	82	2	5	50	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	118	6	7	28	KED
⌈>	**Tb**	**159**		ug/L			480478	456420	3	Standard
⌊	**Pb**	**208**	**0.085**	ug/L	0.004	4	115	3335	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-04
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:40:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43313	0	Standard
	Cl	**37**		ug/L			3324914	3511711	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	408571	1	Standard
|	**Cr**	**52**	**0.315**	ug/L	0.031	9	16311	20852	1	Standard
|	**Cr**	**53**	**0.265**	ug/L	0.007	2	93	593	3	Standard
⌊	**Mn**	**55**	**0.906**	ug/L	0.017	1	527	21852	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	21157	2	KED
|	**Ni**	**60**	**0.142**	ug/L	0.007	4	13	147	6	KED
|	**Ni**	**62**	**0.052**	ug/L	0.065	125	8	16	63	KED
|	**Cu**	**63**	**0.346**	ug/L	0.001	0	34	1010	2	KED
|	**Cu**	**65**	**0.344**	ug/L	0.036	10	19	497	7	KED
|	**Zn**	**66**	**11.768**	ug/L	0.181	1	36	4432	0	KED
|	**Zn**	**67**	**10.259**	ug/L	0.103	1	4	659	1	KED
⌊	**As**	**75**	**0.204**	ug/L	0.020	9	5	44	9	KED
	Y	**89**		ug/L			210865	197090	0	Standard
	Kr	**83**		ug/L			43	48	35	Standard
⌈>	**In-1**	**115**		ug/L			5860	5935	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.003	34	2	0	86	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	53	6	3	30	KED
⌈>	**Tb**	**159**		ug/L			480478	453850	3	Standard
⌊	**Pb**	**208**	**0.013**	ug/L	0.002	12	115	611	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-06
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:44:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44977	2	Standard
	Cl	**37**		ug/L			3324914	3501369	4	Standard
⌈>	**Sc**	**45**		ug/L			423672	421978	2	Standard
|	**Cr**	**52**	**0.360**	ug/L	0.023	6	16311	22285	0	Standard
|	**Cr**	**53**	**0.297**	ug/L	0.019	6	93	676	7	Standard
⌊	**Mn**	**55**	**3.485**	ug/L	0.101	2	527	85322	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	19998	3	KED
|	**Ni**	**60**	**7.257**	ug/L	0.093	1	13	6495	2	KED
|	**Ni**	**62**	**6.752**	ug/L	0.358	5	8	997	7	KED
|	**Cu**	**63**	**0.232**	ug/L	0.011	4	34	650	8	KED
|	**Cu**	**65**	**0.240**	ug/L	0.008	3	19	333	5	KED
|	**Zn**	**66**	**63.310**	ug/L	0.842	1	36	22397	4	KED
|	**Zn**	**67**	**53.537**	ug/L	1.707	3	4	3232	3	KED
⌊	**As**	**75**	**0.161**	ug/L	0.021	13	5	34	14	KED
	Y	**89**		ug/L			210865	205077	2	Standard
	Kr	**83**		ug/L			43	56	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5431	0	KED
|	**Cd**	**111**	**0.007**	ug/L	0.014	191	2	3	78	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	190	6	4	48	KED
⌈>	**Tb**	**159**		ug/L			480478	473744	2	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.000	3	115	591	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-08
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:49:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43123	1	Standard
	Cl	**37**		ug/L			3324914	3441339	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	412563	2	Standard
|	**Cr**	**52**	**0.510**	ug/L	0.034	6	16311	24261	0	Standard
|	**Cr**	**53**	**0.468**	ug/L	0.027	5	93	989	6	Standard
⌊	**Mn**	**55**	**0.793**	ug/L	0.020	2	527	19380	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	20785	3	KED
|	**Ni**	**60**	**0.191**	ug/L	0.011	5	13	191	8	KED
|	**Ni**	**62**	**0.250**	ug/L	0.015	5	8	46	8	KED
|	**Cu**	**63**	**0.724**	ug/L	0.027	3	34	2035	1	KED
|	**Cu**	**65**	**0.738**	ug/L	0.035	4	19	1027	3	KED
|	**Zn**	**66**	**7.272**	ug/L	0.105	1	36	2704	2	KED
|	**Zn**	**67**	**6.462**	ug/L	0.402	6	4	408	2	KED
⌊	**As**	**75**	**0.273**	ug/L	0.007	2	5	56	2	KED
	Y	**89**		ug/L			210865	201406	1	Standard
	Kr	**83**		ug/L			43	43	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5575	5	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	524	2	1	50	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.006	215	6	4	64	KED
⌈>	**Tb**	**159**		ug/L			480478	456293	3	Standard
⌊	**Pb**	**208**	**0.021**	ug/L	0.002	9	115	910	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-10
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:53:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	45626	4	Standard
	Cl	**37**		ug/L			3324914	3490064	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	425522	1	Standard
|	**Cr**	**52**	**0.326**	ug/L	0.044	13	16311	21897	2	Standard
|	**Cr**	**53**	**0.265**	ug/L	0.006	2	93	617	2	Standard
⌊	**Mn**	**55**	**3.196**	ug/L	0.022	0	527	78986	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20100	1	KED
|	**Ni**	**60**	**0.064**	ug/L	0.010	15	13	71	10	KED
|	**Ni**	**62**	**0.028**	ug/L	0.021	72	8	12	24	KED
|	**Cu**	**63**	**0.310**	ug/L	0.027	8	34	860	6	KED
|	**Cu**	**65**	**0.298**	ug/L	0.002	0	19	412	1	KED
|	**Zn**	**66**	**45.064**	ug/L	0.540	1	36	16029	0	KED
|	**Zn**	**67**	**40.680**	ug/L	1.053	2	4	2470	1	KED
⌊	**As**	**75**	**0.179**	ug/L	0.009	5	5	37	4	KED
	Y	**89**		ug/L			210865	213329	1	Standard
	Kr	**83**		ug/L			43	53	18	Standard
⌈>	**In-1**	**115**		ug/L			5860	5514	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	115	2	1	34	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.004	38	6	1	177	KED
⌈>	**Tb**	**159**		ug/L			480478	470093	3	Standard
⌊	**Pb**	**208**	**0.019**	ug/L	0.002	9	115	857	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-12
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:57:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44946	0	Standard
	Cl	**37**		ug/L			3324914	3455689	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	437008	2	Standard
|	**Cr**	**52**	**0.337**	ug/L	0.023	6	16311	22679	2	Standard
|	**Cr**	**53**	**0.326**	ug/L	0.015	4	93	757	5	Standard
⌊	**Mn**	**55**	**0.690**	ug/L	0.017	2	527	17930	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20974	2	KED
|	**Ni**	**60**	**0.102**	ug/L	0.008	7	13	109	7	KED
|	**Ni**	**62**	**0.099**	ug/L	0.035	35	8	23	24	KED
|	**Cu**	**63**	**0.424**	ug/L	0.021	4	34	1218	4	KED
|	**Cu**	**65**	**0.418**	ug/L	0.024	5	19	596	3	KED
|	**Zn**	**66**	**7.903**	ug/L	0.399	5	36	2962	4	KED
|	**Zn**	**67**	**7.218**	ug/L	0.111	1	4	460	1	KED
⌊	**As**	**75**	**0.174**	ug/L	0.027	15	5	38	10	KED
	Y	**89**		ug/L			210865	211915	0	Standard
	Kr	**83**		ug/L			43	51	16	Standard
⌈>	**In-1**	**115**		ug/L			5860	6000	1	KED
|	**Cd**	**111**	**0.007**	ug/L	0.005	65	2	3	25	KED
⌊	**Cd**	**114**	**-0.011**	ug/L	0.002	22	6	0	171	KED
⌈>	**Tb**	**159**		ug/L			480478	479164	4	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.000	0	115	806	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:02:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	45110	1	Standard
	Cl	**37**		ug/L			3324914	3443551	0	Standard
⌈>	**Sc**	**45**		ug/L			423672	417979	1	Standard
|	**Cr**	**52**	**0.375**	ug/L	0.038	10	16311	22342	2	Standard
|	**Cr**	**53**	**0.281**	ug/L	0.011	3	93	637	2	Standard
⌊	**Mn**	**55**	**2.606**	ug/L	0.064	2	527	63354	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	21028	1	KED
|	**Ni**	**60**	**0.074**	ug/L	0.008	10	13	83	8	KED
|	**Ni**	**62**	**0.095**	ug/L	0.010	11	8	22	8	KED
|	**Cu**	**63**	**0.256**	ug/L	0.021	8	34	751	9	KED
|	**Cu**	**65**	**0.234**	ug/L	0.004	1	19	342	2	KED
|	**Zn**	**66**	**33.084**	ug/L	1.015	3	36	12325	4	KED
|	**Zn**	**67**	**29.232**	ug/L	0.562	1	4	1858	2	KED
⌊	**As**	**75**	**0.182**	ug/L	0.034	18	5	39	16	KED
	Y	**89**		ug/L			210865	202459	2	Standard
	Kr	**83**		ug/L			43	46	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5801	3	KED
|	**Cd**	**111**	**0.008**	ug/L	0.008	102	2	3	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.006	1274	6	6	52	KED
⌈>	**Tb**	**159**		ug/L			480478	466298	3	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	6	115	671	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:06:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43166	5	Standard
	Cl	**37**		ug/L			3324914	3402239	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	405812	2	Standard
|	**Cr**	**52**	**0.275**	ug/L	0.035	12	16311	20079	4	Standard
|	**Cr**	**53**	**0.251**	ug/L	0.008	3	93	562	4	Standard
⌊	**Mn**	**55**	**2.686**	ug/L	0.020	0	527	63381	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20144	1	KED
|	**Ni**	**60**	**0.073**	ug/L	0.011	14	13	79	12	KED
|	**Ni**	**62**	**0.032**	ug/L	0.038	119	8	12	45	KED
|	**Cu**	**63**	**0.215**	ug/L	0.010	4	34	610	3	KED
|	**Cu**	**65**	**0.233**	ug/L	0.024	10	19	326	8	KED
|	**Zn**	**66**	**32.752**	ug/L	0.270	0	36	11686	0	KED
|	**Zn**	**67**	**29.639**	ug/L	0.252	0	4	1805	1	KED
⌊	**As**	**75**	**0.181**	ug/L	0.013	7	5	37	5	KED
	Y	**89**		ug/L			210865	195397	1	Standard
	Kr	**83**		ug/L			43	39	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5407	5	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	293	2	1	69	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	47	6	3	30	KED
⌈>	**Tb**	**159**		ug/L			480478	454083	3	Standard
⌊	**Pb**	**208**	**0.018**	ug/L	0.001	3	115	792	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:10:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44935	0	Standard
	Cl	**37**		ug/L			3324914	3413687	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	422486	2	Standard
|	**Cr**	**52**	**26.224**	ug/L	0.446	1	16311	457512	2	Standard
|	**Cr**	**53**	**26.167**	ug/L	0.154	0	93	51463	2	Standard
⌊	**Mn**	**55**	**29.351**	ug/L	0.192	0	527	715952	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	20835	2	KED
|	**Ni**	**60**	**27.225**	ug/L	0.470	1	13	25357	3	KED
|	**Ni**	**62**	**26.437**	ug/L	0.757	2	8	4041	2	KED
|	**Cu**	**63**	**26.793**	ug/L	0.609	2	34	74371	2	KED
|	**Cu**	**65**	**27.151**	ug/L	0.331	1	19	37219	2	KED
|	**Zn**	**66**	**116.996**	ug/L	1.777	1	36	43077	0	KED
|	**Zn**	**67**	**101.333**	ug/L	1.295	1	4	6371	0	KED
⌊	**As**	**75**	**25.380**	ug/L	0.158	0	5	4717	1	KED
	Y	**89**		ug/L			210865	204387	5	Standard
	Kr	**83**		ug/L			43	43	4	Standard
⌈>	**In-1**	**115**		ug/L			5860	5640	2	KED
|	**Cd**	**111**	**25.629**	ug/L	0.682	2	2	5237	1	KED
⌊	**Cd**	**114**	**26.041**	ug/L	0.854	3	6	12925	1	KED
⌈>	**Tb**	**159**		ug/L			480478	464989	4	Standard
⌊	**Pb**	**208**	**28.426**	ug/L	0.628	2	115	1097790	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:16:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	47332	0	Standard
Cl	37		ug/L			3324914	3394381	1	Standard
> Sc	45		ug/L			423672	552435	1	Standard
Cr	52	13.580	ug/L	0.004	0	16311	320085	1	Standard
Cr	53	13.637	ug/L	0.082	0	93	35130	1	Standard
Mn	55	236.366	ug/L	3.294	1	527	7533823	2	Standard
> Ge	72		ug/L			20993	20359	0	KED
Ni	60	16.711	ug/L	0.524	3	13	15211	2	KED
Ni	62	16.754	ug/L	0.410	2	8	2506	3	KED
Cu	63	20.630	ug/L	0.269	1	34	55958	0	KED
Cu	65	21.249	ug/L	0.423	1	19	28469	2	KED
Zn	66	81.556	ug/L	0.785	0	36	29359	1	KED
Zn	67	79.298	ug/L	2.556	3	4	4873	2	KED
As	75	2.533	ug/L	0.089	3	5	465	2	KED
Y	89		ug/L			210865	434604	1	Standard
Kr	83		ug/L			43	134	13	Standard
> In-1	115		ug/L			5860	5604	1	KED
Cd	111	0.072	ug/L	0.017	23	2	16	21	KED
Cd	114	0.094	ug/L	0.017	17	6	52	16	KED
> Tb	159		ug/L			480478	483462	3	Standard
Pb	208	13.761	ug/L	0.427	3	115	552558	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:23:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31957	3	Standard
	Cl	**37**		ug/L			3324914	3585631	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	409489	0	Standard
|	**Cr**	**52**	**50.693**	ug/L	0.190	0	16311	842585	0	Standard
|	**Cr**	**53**	**50.544**	ug/L	0.742	1	93	96273	2	Standard
⌊	**Mn**	**55**	**51.688**	ug/L	0.528	1	527	1221587	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20128	1	KED
|	**Ni**	**60**	**50.808**	ug/L	1.186	2	13	45692	1	KED
|	**Ni**	**62**	**51.630**	ug/L	1.221	2	8	7618	1	KED
|	**Cu**	**63**	**50.907**	ug/L	0.634	1	34	136481	1	KED
|	**Cu**	**65**	**51.460**	ug/L	0.862	1	19	68124	1	KED
|	**Zn**	**66**	**52.014**	ug/L	1.795	3	36	18519	2	KED
|	**Zn**	**67**	**50.908**	ug/L	1.421	2	4	3094	1	KED
⌊	**As**	**75**	**50.147**	ug/L	1.061	2	5	8998	0	KED
	Y	**89**		ug/L			210865	198783	2	Standard
	Kr	**83**		ug/L			43	50	18	Standard
⌈>	**In-1**	**115**		ug/L			5860	5383	1	KED
|	**Cd**	**111**	**51.761**	ug/L	1.423	2	2	10094	1	KED
⌊	**Cd**	**114**	**51.677**	ug/L	0.549	1	6	24486	0	KED
⌈>	**Tb**	**159**		ug/L			480478	464608	3	Standard
⌊	**Pb**	**208**	**54.638**	ug/L	1.841	3	115	2107830	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:30:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30927	3	Standard
	Cl	**37**		ug/L			3324914	3324282	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	419721	2	Standard
|	**Cr**	**52**	**-0.028**	ug/L	0.018	64	16311	15685	0	Standard
|	**Cr**	**53**	**-0.005**	ug/L	0.003	61	93	81	10	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.000	12	527	611	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	20536	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.008	463	13	12	55	KED
|	**Ni**	**62**	**-0.024**	ug/L	0.020	84	8	4	65	KED
|	**Cu**	**63**	**0.006**	ug/L	0.005	88	34	48	29	KED
|	**Cu**	**65**	**0.001**	ug/L	0.006	529	19	20	41	KED
|	**Zn**	**66**	**0.058**	ug/L	0.016	27	36	56	10	KED
|	**Zn**	**67**	**0.074**	ug/L	0.068	91	4	8	44	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.009	984	5	5	28	KED
	Y	**89**		ug/L			210865	198820	1	Standard
	Kr	**83**		ug/L			43	48	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5658	2	KED
|	**Cd**	**111**	**0.005**	ug/L	0.008	147	2	3	45	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.010	291	6	4	112	KED
⌈>	**Tb**	**159**		ug/L			480478	462212	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	6	115	255	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:35:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				33587	1	Standard
	Cl	**37**		ug/L				3318464	1	Standard
>	**Sc**	**45**		ug/L				408513	1	Standard
	Cr	**52**		ug/L				15747	1	Standard
	Cr	**53**		ug/L				81	12	Standard
	Mn	**55**		ug/L				555	5	Standard
>	**Ge**	**72**		ug/L				19427	2	KED
	Ni	**60**		ug/L				13	24	KED
	Ni	**62**		ug/L				8	35	KED
	Cu	**63**		ug/L				28	30	KED
	Cu	**65**		ug/L				17	48	KED
	Zn	**66**		ug/L				33	6	KED
	Zn	**67**		ug/L				3	50	KED
	As	**75**		ug/L				5	5	KED
	Y	**89**		ug/L				199932	0	Standard
	Kr	**83**		ug/L				55	34	Standard
>	**In-1**	**115**		ug/L				5415	1	KED
	Cd	**111**		ug/L				1	132	KED
	Cd	**114**		ug/L				1	100	KED
>	**Tb**	**159**		ug/L				457409	3	Standard
	Pb	**208**		ug/L				92	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:39:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30970	3	Standard
	Cl	**37**		ug/L			3318464	3596620	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	394965	1	Standard
|	**Cr**	**52**	**51.509**	ug/L	0.397	0	15747	825564	1	Standard
|	**Cr**	**53**	**51.719**	ug/L	0.617	1	81	94996	0	Standard
⌊	**Mn**	**55**	**51.863**	ug/L	0.740	1	555	1182141	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20111	0	KED
|	**Ni**	**60**	**51.495**	ug/L	0.793	1	13	46277	0	KED
|	**Ni**	**62**	**49.693**	ug/L	1.333	2	8	7328	2	KED
|	**Cu**	**63**	**49.772**	ug/L	0.361	0	28	133322	0	KED
|	**Cu**	**65**	**51.551**	ug/L	0.455	0	17	68194	0	KED
|	**Zn**	**66**	**49.789**	ug/L	0.975	1	33	17718	2	KED
|	**Zn**	**67**	**50.902**	ug/L	2.069	4	3	3091	3	KED
⌊	**As**	**75**	**49.446**	ug/L	0.718	1	5	8866	0	KED
	Y	**89**		ug/L			199932	189958	1	Standard
	Kr	**83**		ug/L			55	65	3	Standard
⌈>	**In-1**	**115**		ug/L			5415	5403	2	KED
|	**Cd**	**111**	**50.937**	ug/L	1.476	2	1	9967	0	KED
⌊	**Cd**	**114**	**51.669**	ug/L	1.325	2	1	24561	0	KED
⌈>	**Tb**	**159**		ug/L			457409	448132	1	Standard
⌊	**Pb**	**208**	**55.044**	ug/L	1.318	2	92	2049277	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:46:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31277	1	Standard
	Cl	**37**		ug/L			3318464	3347711	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	407725	2	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.028	283	15747	15562	4	Standard
|	**Cr**	**53**	**0.006**	ug/L	0.003	57	81	92	8	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	31	555	639	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	20045	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.012	990	13	12	82	KED
|	**Ni**	**62**	**-0.023**	ug/L	0.027	115	8	5	78	KED
|	**Cu**	**63**	**0.010**	ug/L	0.005	52	28	57	26	KED
|	**Cu**	**65**	**0.007**	ug/L	0.014	195	17	27	68	KED
|	**Zn**	**66**	**0.065**	ug/L	0.014	21	33	57	9	KED
|	**Zn**	**67**	**0.177**	ug/L	0.113	63	3	14	45	KED
⌊	**As**	**75**	**0.005**	ug/L	0.014	266	5	6	40	KED
	Y	**89**		ug/L			199932	200193	1	Standard
	Kr	**83**		ug/L			55	40	26	Standard
⌈>	**In-1**	**115**		ug/L			5415	5910	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.003	38	1	0	86	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	663	1	2	96	KED
⌈>	**Tb**	**159**		ug/L			457409	454753	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	15	92	238	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:51:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46306	2	Standard
	Cl	**37**		ug/L			3318464	3350138	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	427778	3	Standard
|	**Cr**	**52**	**0.369**	ug/L	0.027	7	15747	22773	1	Standard
|	**Cr**	**53**	**0.309**	ug/L	0.016	5	81	697	1	Standard
⌊	**Mn**	**55**	**3.057**	ug/L	0.038	1	555	76004	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20924	1	KED
|	**Ni**	**60**	**0.076**	ug/L	0.011	14	13	85	11	KED
|	**Ni**	**62**	**0.083**	ug/L	0.025	29	8	21	18	KED
|	**Cu**	**63**	**0.332**	ug/L	0.020	5	28	956	5	KED
|	**Cu**	**65**	**0.354**	ug/L	0.027	7	17	506	7	KED
|	**Zn**	**66**	**38.381**	ug/L	1.158	3	33	14219	3	KED
|	**Zn**	**67**	**32.496**	ug/L	0.686	2	3	2054	1	KED
⌊	**As**	**75**	**0.233**	ug/L	0.008	3	5	48	2	KED
	Y	**89**		ug/L			199932	208192	3	Standard
	Kr	**83**		ug/L			55	46	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5647	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.009	1856	1	1	100	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.017	155	1	7	115	KED
⌈>	**Tb**	**159**		ug/L			457409	477111	5	Standard
⌊	**Pb**	**208**	**0.077**	ug/L	0.005	6	92	3142	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-03
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:55:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46846	4	Standard
	Cl	**37**		ug/L			3318464	3317272	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	432261	2	Standard
|	**Cr**	**52**	**0.379**	ug/L	0.031	8	15747	23190	1	Standard
|	**Cr**	**53**	**0.309**	ug/L	0.011	3	81	706	3	Standard
⌊	**Mn**	**55**	**1.417**	ug/L	0.041	2	555	35926	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	19961	1	KED
|	**Ni**	**60**	**0.170**	ug/L	0.007	3	13	165	2	KED
|	**Ni**	**62**	**0.129**	ug/L	0.039	30	8	27	21	KED
|	**Cu**	**63**	**0.436**	ug/L	0.019	4	28	1188	2	KED
|	**Cu**	**65**	**0.457**	ug/L	0.017	3	17	617	1	KED
|	**Zn**	**66**	**13.524**	ug/L	0.232	1	33	4802	2	KED
|	**Zn**	**67**	**11.651**	ug/L	0.589	5	3	705	5	KED
⌊	**As**	**75**	**0.211**	ug/L	0.039	18	5	42	14	KED
	Y	**89**		ug/L			199932	208898	2	Standard
	Kr	**83**		ug/L			55	55	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5739	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.009	92	1	4	48	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	145	1	3	57	KED
⌈>	**Tb**	**159**		ug/L			457409	477446	5	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.002	8	92	885	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-05
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:00:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	44371	1	Standard
	Cl	**37**		ug/L			3318464	3429934	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	428994	1	Standard
|	**Cr**	**52**	**0.417**	ug/L	0.019	4	15747	23668	1	Standard
|	**Cr**	**53**	**0.383**	ug/L	0.006	1	81	848	2	Standard
⌊	**Mn**	**55**	**3.518**	ug/L	0.061	1	555	87646	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20983	1	KED
|	**Ni**	**60**	**0.130**	ug/L	0.028	21	13	136	20	KED
|	**Ni**	**62**	**0.099**	ug/L	0.017	16	8	24	12	KED
|	**Cu**	**63**	**0.275**	ug/L	0.035	12	28	800	11	KED
|	**Cu**	**65**	**0.272**	ug/L	0.012	4	17	393	4	KED
|	**Zn**	**66**	**70.741**	ug/L	1.695	2	33	26245	1	KED
|	**Zn**	**67**	**60.426**	ug/L	1.594	2	3	3827	2	KED
⌊	**As**	**75**	**0.153**	ug/L	0.036	23	5	34	19	KED
	Y	**89**		ug/L			199932	208047	1	Standard
	Kr	**83**		ug/L			55	48	8	Standard
⌈>	**In-1**	**115**		ug/L			5415	5847	3	KED
|	**Cd**	**111**	**0.014**	ug/L	0.010	68	1	5	39	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.010	129	1	6	90	KED
⌈>	**Tb**	**159**		ug/L			457409	476371	3	Standard
⌊	**Pb**	**208**	**0.042**	ug/L	0.003	6	92	1751	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-07
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:04:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	44292	0	Standard
	Cl	**37**		ug/L			3318464	3326408	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	417133	2	Standard
|	**Cr**	**52**	**0.389**	ug/L	0.034	8	15747	22542	1	Standard
|	**Cr**	**53**	**0.356**	ug/L	0.018	5	81	773	4	Standard
⌊	**Mn**	**55**	**1.427**	ug/L	0.011	0	555	34909	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20974	1	KED
|	**Ni**	**60**	**0.234**	ug/L	0.034	14	13	233	12	KED
|	**Ni**	**62**	**0.182**	ug/L	0.022	12	8	36	7	KED
|	**Cu**	**63**	**0.647**	ug/L	0.016	2	28	1837	1	KED
|	**Cu**	**65**	**0.645**	ug/L	0.013	2	17	907	0	KED
|	**Zn**	**66**	**6.556**	ug/L	0.285	4	33	2463	2	KED
|	**Zn**	**67**	**5.972**	ug/L	0.570	9	3	381	8	KED
⌊	**As**	**75**	**0.237**	ug/L	0.013	5	5	49	4	KED
	Y	**89**		ug/L			199932	208530	1	Standard
	Kr	**83**		ug/L			55	35	40	Standard
⌈>	**In-1**	**115**		ug/L			5415	5857	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.010	465	1	1	124	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	141	1	3	70	KED
⌈>	**Tb**	**159**		ug/L			457409	465131	3	Standard
⌊	**Pb**	**208**	**0.024**	ug/L	0.001	3	92	1003	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-09
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:08:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	42517	1	Standard
	Cl	**37**		ug/L			3318464	3268332	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	413982	2	Standard
|	**Cr**	**52**	**0.391**	ug/L	0.010	2	15747	22402	2	Standard
|	**Cr**	**53**	**0.378**	ug/L	0.004	1	81	810	2	Standard
⌊	**Mn**	**55**	**3.774**	ug/L	0.036	0	555	90700	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20046	1	KED
|	**Ni**	**60**	**0.089**	ug/L	0.013	14	13	93	13	KED
|	**Ni**	**62**	**0.050**	ug/L	0.027	53	8	15	24	KED
|	**Cu**	**63**	**0.268**	ug/L	0.015	5	28	743	3	KED
|	**Cu**	**65**	**0.269**	ug/L	0.023	8	17	372	7	KED
|	**Zn**	**66**	**52.618**	ug/L	1.257	2	33	18658	1	KED
|	**Zn**	**67**	**47.176**	ug/L	1.333	2	3	2857	4	KED
⌊	**As**	**75**	**0.166**	ug/L	0.017	10	5	34	10	KED
	Y	**89**		ug/L			199932	204081	4	Standard
	Kr	**83**		ug/L			55	39	7	Standard
⌈>	**In-1**	**115**		ug/L			5415	5718	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.007	326	1	1	91	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.007	107	1	5	66	KED
⌈>	**Tb**	**159**		ug/L			457409	454421	4	Standard
⌊	**Pb**	**208**	**0.043**	ug/L	0.002	3	92	1718	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-11
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:13:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	45620	3	Standard
	Cl	**37**		ug/L			3318464	3260661	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	423807	2	Standard
|	**Cr**	**52**	**0.383**	ug/L	0.051	13	15747	22795	2	Standard
|	**Cr**	**53**	**0.354**	ug/L	0.030	8	81	781	4	Standard
⌊	**Mn**	**55**	**1.233**	ug/L	0.013	1	555	30721	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20930	5	KED
|	**Ni**	**60**	**0.134**	ug/L	0.015	11	13	139	10	KED
|	**Ni**	**62**	**0.124**	ug/L	0.033	26	8	27	20	KED
|	**Cu**	**63**	**0.382**	ug/L	0.016	4	28	1092	2	KED
|	**Cu**	**65**	**0.404**	ug/L	0.017	4	17	574	9	KED
|	**Zn**	**66**	**8.639**	ug/L	0.140	1	33	3227	3	KED
|	**Zn**	**67**	**7.793**	ug/L	0.585	7	3	495	5	KED
⌊	**As**	**75**	**0.173**	ug/L	0.024	13	5	37	10	KED
	Y	**89**		ug/L			199932	205177	2	Standard
	Kr	**83**		ug/L			55	42	38	Standard
⌈>	**In-1**	**115**		ug/L			5415	5979	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	109	1	1	34	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	62	1	0	154	KED
⌈>	**Tb**	**159**		ug/L			457409	474826	3	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.001	6	92	900	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0612-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:17:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	57890	1	Standard
	Cl	37		ug/L			3318464	3606158	2	Standard
>	Sc	45		ug/L			408513	473375	2	Standard
	Cr	52	1.614	ug/L	0.067	4	15747	48662	0	Standard
	Cr	53	1.814	ug/L	0.025	1	81	4083	2	Standard
	Mn	55	235.781	ug/L	4.900	2	555	6437196	0	Standard
>	Ge	72		ug/L			19427	20609	0	KED
	Ni	60	3.552	ug/L	0.325	9	13	3285	9	KED
	Ni	62	3.715	ug/L	0.144	3	8	569	3	KED
	Cu	63	4.040	ug/L	0.058	1	28	11115	0	KED
	Cu	65	4.237	ug/L	0.092	2	17	5759	2	KED
	Zn	66	7.227	ug/L	0.044	0	33	2666	1	KED
	Zn	67	9.392	ug/L	0.362	3	3	587	4	KED
	As	75	0.432	ug/L	0.039	8	5	84	8	KED
	Y	89		ug/L			199932	224064	2	Standard
	Kr	83		ug/L			55	41	19	Standard
>	In-1	115		ug/L			5415	5487	2	KED
	Cd	111	0.280	ug/L	0.029	10	1	57	8	KED
	Cd	114	0.268	ug/L	0.046	17	1	131	15	KED
>	Tb	159		ug/L			457409	486470	3	Standard
	Pb	208	0.683	ug/L	0.022	3	92	27689	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:22:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	54314	0	Standard
	Cl	37		ug/L			3318464	3693854	0	Standard
>	Sc	45		ug/L			408513	458604	2	Standard
	Cr	52	1.555	ug/L	0.067	4	15747	46059	2	Standard
	Cr	53	1.708	ug/L	0.052	3	81	3728	0	Standard
	Mn	55	229.361	ug/L	5.344	2	555	6066297	1	Standard
>	Ge	72		ug/L			19427	19572	2	KED
	Ni	60	3.456	ug/L	0.068	1	13	3035	2	KED
	Ni	62	3.407	ug/L	0.142	4	8	496	3	KED
	Cu	63	4.107	ug/L	0.103	2	28	10729	0	KED
	Cu	65	4.106	ug/L	0.126	3	17	5303	4	KED
	Zn	66	6.959	ug/L	0.240	3	33	2439	4	KED
	Zn	67	9.027	ug/L	0.310	3	3	536	1	KED
	As	75	0.454	ug/L	0.019	4	5	84	4	KED
	Y	89		ug/L			199932	208496	2	Standard
	Kr	83		ug/L			55	49	20	Standard
>	In-1	115		ug/L			5415	5597	1	KED
	Cd	111	0.310	ug/L	0.018	5	1	64	6	KED
	Cd	114	0.283	ug/L	0.017	5	1	141	6	KED
>	Tb	159		ug/L			457409	466932	4	Standard
	Pb	208	0.661	ug/L	0.018	2	92	25707	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:28:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			33587	48512	2	Standard
	Cl		37		ug/L			3318464	3728660	0	Standard
⌈>	Sc		45		ug/L			408513	452065	2	Standard
|	Cr		52	25.566	ug/L	0.743	2	15747	477531	0	Standard
|	Cr		53	25.252	ug/L	0.699	2	81	53110	0	Standard
⌊	Mn	STL	55	253.723	ug/L	2.833	1	555	6616659	2	Standard
⌈>	Ge		72		ug/L			19427	19338	1	KED
|	Ni		60	31.412	ug/L	0.405	1	13	27147	0	KED
|	Ni		62	31.206	ug/L	0.733	2	8	4429	3	KED
|	Cu		63	30.265	ug/L	0.252	0	28	77959	0	KED
|	Cu		65	30.490	ug/L	0.053	0	17	38789	1	KED
|	Zn		66	84.055	ug/L	2.072	2	33	28736	2	KED
|	Zn		67	81.619	ug/L	1.242	1	3	4763	0	KED
⌊	As		75	25.683	ug/L	0.180	0	5	4430	0	KED
	Y		89		ug/L			199932	212169	0	Standard
	Kr		83		ug/L			55	62	16	Standard
⌈>	In-1		115		ug/L			5415	5409	1	KED
|	Cd		111	25.302	ug/L	0.634	2	1	4958	0	KED
⌊	Cd		114	25.162	ug/L	0.568	2	1	11977	0	KED
⌈>	Tb		159		ug/L			457409	465004	3	Standard
⌊	Pb		208	28.627	ug/L	1.065	3	92	1105250	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:32:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31245	3	Standard
	Cl	**37**		ug/L			3318464	3504213	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	393571	6	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.015	71	15747	15493	4	Standard
|	**Cr**	**53**	**0.024**	ug/L	0.012	50	81	120	13	Standard
⌊	**Mn**	**55**	**0.021**	ug/L	0.005	21	555	1014	12	Standard
⌈>	**Ge**	**72**		ug/L			19427	20139	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	57	13	8	32	KED
|	**Ni**	**62**	**-0.019**	ug/L	0.001	2	8	5	0	KED
|	**Cu**	**63**	**0.005**	ug/L	0.000	4	28	41	0	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	80	17	13	20	KED
|	**Zn**	**66**	**0.009**	ug/L	0.004	44	33	38	5	KED
|	**Zn**	**67**	**-0.002**	ug/L	0.054	2197	3	3	86	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.008	170	5	4	32	KED
	Y	**89**		ug/L			199932	191989	2	Standard
	Kr	**83**		ug/L			55	42	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5524	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	168	1	1	34	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	144	1	1	90	KED
⌈>	**Tb**	**159**		ug/L			457409	446015	6	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	17	92	279	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:36:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	33647	1	Standard
	Cl	**37**		ug/L			3318464	3707357	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	435452	1	Standard
⎢	**Cr**	**52**	**50.081**	ug/L	0.953	1	15747	885200	0	Standard
⎢	**Cr**	**53**	**50.410**	ug/L	0.762	1	81	102075	1	Standard
⎣	**Mn**	**55**	**51.436**	ug/L	0.123	0	555	1292705	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	20607	4	KED
⎢	**Ni**	**60**	**51.134**	ug/L	0.755	1	13	47074	3	KED
⎢	**Ni**	**62**	**51.624**	ug/L	1.291	2	8	7796	2	KED
⎢	**Cu**	**63**	**51.331**	ug/L	0.752	1	28	140827	3	KED
⎢	**Cu**	**65**	**51.481**	ug/L	1.532	2	17	69742	3	KED
⎢	**Zn**	**66**	**51.087**	ug/L	0.927	1	33	18618	2	KED
⎢	**Zn**	**67**	**51.512**	ug/L	2.299	4	3	3201	1	KED
⎣	**As**	**75**	**50.374**	ug/L	0.634	1	5	9252	3	KED
	Y	**89**		ug/L			199932	211392	2	Standard
	Kr	**83**		ug/L			55	59	8	Standard
⎡>	**In-1**	**115**		ug/L			5415	5800	1	KED
⎢	**Cd**	**111**	**51.708**	ug/L	0.765	1	1	10866	0	KED
⎣	**Cd**	**114**	**51.413**	ug/L	0.327	0	1	26249	2	KED
⎡>	**Tb**	**159**		ug/L			457409	489522	3	Standard
⎣	**Pb**	**208**	**54.269**	ug/L	1.446	2	92	2206418	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:43:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30478	2	Standard
	Cl	**37**		ug/L			3318464	3570448	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	400324	2	Standard
|	**Cr**	**52**	**0.018**	ug/L	0.023	132	15747	15709	2	Standard
|	**Cr**	**53**	**0.009**	ug/L	0.004	38	81	96	6	Standard
⌊	**Mn**	**55**	**0.005**	ug/L	0.004	70	555	666	13	Standard
⌈>	**Ge**	**72**		ug/L			19427	20049	2	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	2477	13	13	28	KED
|	**Ni**	**62**	**-0.028**	ug/L	0.014	51	8	4	49	KED
|	**Cu**	**63**	**0.005**	ug/L	0.002	45	28	43	13	KED
|	**Cu**	**65**	**0.007**	ug/L	0.004	61	17	26	21	KED
|	**Zn**	**66**	**0.094**	ug/L	0.028	29	33	67	13	KED
|	**Zn**	**67**	**0.082**	ug/L	0.102	124	3	8	68	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.010	4987	5	5	36	KED
	Y	**89**		ug/L			199932	193790	1	Standard
	Kr	**83**		ug/L			55	43	24	Standard
⌈>	**In-1**	**115**		ug/L			5415	5596	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	79	1	1	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.004	2086	1	1	107	KED
⌈>	**Tb**	**159**		ug/L			457409	448177	4	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.004	62	92	317	41	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0010-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:48:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43568	5	Standard
	Cl	**37**		ug/L			3318464	3501110	4	Standard
⌈>	**Sc**	**45**		ug/L			408513	394796	11	Standard
|	**Cr**	**52**	**0.233**	ug/L	0.079	34	15747	18788	4	Standard
|	**Cr**	**53**	**0.250**	ug/L	0.025	9	81	533	3	Standard
⌊	**Mn**	**55**	**2.655**	ug/L	0.126	4	555	60792	6	Standard
⌈>	**Ge**	**72**		ug/L			19427	19575	1	KED
|	**Ni**	**60**	**0.144**	ug/L	0.004	2	13	139	2	KED
|	**Ni**	**62**	**0.101**	ug/L	0.022	21	8	22	14	KED
|	**Cu**	**63**	**1.064**	ug/L	0.041	3	28	2803	4	KED
|	**Cu**	**65**	**1.064**	ug/L	0.043	4	17	1386	4	KED
|	**Zn**	**66**	**17.834**	ug/L	0.454	2	33	6198	1	KED
|	**Zn**	**67**	**15.570**	ug/L	0.963	6	3	923	6	KED
⌊	**As**	**75**	**0.094**	ug/L	0.015	15	5	21	11	KED
	Y	**89**		ug/L			199932	194758	8	Standard
	Kr	**83**		ug/L			55	43	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	5410	1	KED
|	**Cd**	**111**	**0.031**	ug/L	0.017	54	1	7	42	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.010	30	1	17	27	KED
⌈>	**Tb**	**159**		ug/L			457409	441334	12	Standard
⌊	**Pb**	**208**	**0.124**	ug/L	0.009	6	92	4600	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0013-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:52:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40764	4	Standard
	Cl	**37**		ug/L			3318464	4278838	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	442684	2	Standard
|	**Cr**	**52**	**1.525**	ug/L	0.047	3	15747	43948	0	Standard
|	**Cr**	**53**	**2.149**	ug/L	0.050	2	81	4507	1	Standard
⌊	**Mn**	**55**	**7.713**	ug/L	0.072	0	555	197603	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20179	1	KED
|	**Ni**	**60**	**0.875**	ug/L	0.042	4	13	802	3	KED
|	**Ni**	**62**	**0.835**	ug/L	0.044	5	8	132	5	KED
|	**Cu**	**63**	**4.024**	ug/L	0.175	4	28	10835	2	KED
|	**Cu**	**65**	**4.146**	ug/L	0.092	2	17	5519	2	KED
|	**Zn**	**66**	**35.740**	ug/L	1.453	4	33	12767	3	KED
|	**Zn**	**67**	**34.458**	ug/L	1.173	3	3	2100	1	KED
⌊	**As**	**75**	**0.583**	ug/L	0.019	3	5	110	4	KED
	Y	**89**		ug/L			199932	212904	0	Standard
	Kr	**83**		ug/L			55	51	25	Standard
⌈>	**In-1**	**115**		ug/L			5415	5491	0	KED
|	**Cd**	**111**	**0.037**	ug/L	0.010	28	1	9	21	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.024	56	1	22	51	KED
⌈>	**Tb**	**159**		ug/L			457409	480657	4	Standard
⌊	**Pb**	**208**	**1.292**	ug/L	0.059	4	92	51630	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0016-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:56:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	112973	3	Standard
	Cl	**37**		ug/L			3318464	3436786	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	438051	2	Standard
|	**Cr**	**52**	**0.757**	ug/L	0.017	2	15747	30093	2	Standard
|	**Cr**	**53**	**0.633**	ug/L	0.018	2	81	1375	3	Standard
⌊	**Mn**	**55**	**137.991**	ug/L	2.605	1	555	3486652	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21068	2	KED
|	**Ni**	**60**	**22.080**	ug/L	0.986	4	13	20782	2	KED
|	**Ni**	**62**	**21.694**	ug/L	0.462	2	8	3356	2	KED
|	**Cu**	**63**	**6.877**	ug/L	0.269	3	28	19311	1	KED
|	**Cu**	**65**	**6.946**	ug/L	0.280	4	17	9635	1	KED
|	**Zn**	**66**	**2.584**	ug/L	0.087	3	33	997	2	KED
|	**Zn**	**67**	**2.439**	ug/L	0.281	11	3	159	13	KED
⌊	**As**	**75**	**0.432**	ug/L	0.023	5	5	86	2	KED
	Y	**89**		ug/L			199932	204220	0	Standard
	Kr	**83**		ug/L			55	43	19	Standard
⌈>	**In-1**	**115**		ug/L			5415	5520	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.010	160	1	3	62	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	136	1	4	82	KED
⌈>	**Tb**	**159**		ug/L			457409	463321	4	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.002	10	92	930	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0016-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:01:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	62082	1	Standard
	Cl	**37**		ug/L			3318464	3812204	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	426637	2	Standard
|	**Cr**	**52**	**1.955**	ug/L	0.045	2	15747	49656	2	Standard
|	**Cr**	**53**	**2.166**	ug/L	0.032	1	81	4377	2	Standard
⌊	**Mn**	**55**	**244.340**	ug/L	2.654	1	555	6013502	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21093	1	KED
|	**Ni**	**60**	**3.642**	ug/L	0.207	5	13	3443	3	KED
|	**Ni**	**62**	**3.751**	ug/L	0.088	2	8	588	3	KED
|	**Cu**	**63**	**17.431**	ug/L	0.298	1	28	48980	0	KED
|	**Cu**	**65**	**17.903**	ug/L	0.199	1	17	24848	1	KED
|	**Zn**	**66**	**1001.272**	ug/L	14.385	1	33	372960	0	KED
|	**Zn**	**67**	**872.911**	ug/L	18.856	2	3	55528	1	KED
⌊	**As**	**75**	**0.516**	ug/L	0.018	3	5	102	1	KED
	Y	**89**		ug/L			199932	212826	2	Standard
	Kr	**83**		ug/L			55	54	11	Standard
⌈>	**In-1**	**115**		ug/L			5415	5979	0	KED
|	**Cd**	**111**	**0.122**	ug/L	0.025	20	1	28	20	KED
⌊	**Cd**	**114**	**0.119**	ug/L	0.007	5	1	64	4	KED
⌈>	**Tb**	**159**		ug/L			457409	470457	4	Standard
⌊	**Pb**	**208**	**1.411**	ug/L	0.063	4	92	55174	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0522-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:05:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	41811	0	Standard
	Cl	**37**		ug/L			3318464	3669736	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	422121	3	Standard
|	**Cr**	**52**	**1.264**	ug/L	0.080	6	15747	37501	0	Standard
|	**Cr**	**53**	**1.465**	ug/L	0.055	3	81	2956	0	Standard
⌊	**Mn**	**55**	**14.832**	ug/L	0.130	0	555	361686	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20665	1	KED
|	**Ni**	**60**	**0.888**	ug/L	0.101	11	13	833	10	KED
|	**Ni**	**62**	**0.865**	ug/L	0.056	6	8	139	6	KED
|	**Cu**	**63**	**5.761**	ug/L	0.141	2	28	15883	2	KED
|	**Cu**	**65**	**5.782**	ug/L	0.155	2	17	7873	1	KED
|	**Zn**	**66**	**82.513**	ug/L	3.369	4	33	30136	2	KED
|	**Zn**	**67**	**75.416**	ug/L	2.102	2	3	4703	1	KED
⌊	**As**	**75**	**0.226**	ug/L	0.050	21	5	46	18	KED
	Y	**89**		ug/L			199932	205975	1	Standard
	Kr	**83**		ug/L			55	49	37	Standard
⌈>	**In-1**	**115**		ug/L			5415	5674	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.007	14	1	12	11	KED
⌊	**Cd**	**114**	**0.047**	ug/L	0.004	9	1	25	7	KED
⌈>	**Tb**	**159**		ug/L			457409	471462	4	Standard
⌊	**Pb**	**208**	**1.899**	ug/L	0.082	4	92	74386	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0536-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:10:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	73362	1	Standard
	Cl	**37**		ug/L			3318464	3547350	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	470934	2	Standard
|	**Cr**	**52**	**2.684**	ug/L	0.054	2	15747	68510	3	Standard
|	**Cr**	**53**	**2.756**	ug/L	0.007	0	81	6125	2	Standard
⌊	**Mn**	**55**	**61.284**	ug/L	1.402	2	555	1665396	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20630	2	KED
|	**Ni**	**60**	**1.355**	ug/L	0.091	6	13	1263	7	KED
|	**Ni**	**62**	**1.282**	ug/L	0.068	5	8	202	5	KED
|	**Cu**	**63**	**12.971**	ug/L	0.255	1	28	35655	0	KED
|	**Cu**	**65**	**12.556**	ug/L	0.187	1	17	17054	3	KED
|	**Zn**	**66**	**378.690**	ug/L	9.701	2	33	137965	1	KED
|	**Zn**	**67**	**338.156**	ug/L	1.487	0	3	21045	1	KED
⌊	**As**	**75**	**2.786**	ug/L	0.023	0	5	517	1	KED
	Y	**89**		ug/L			199932	234872	2	Standard
	Kr	**83**		ug/L			55	46	28	Standard
⌈>	**In-1**	**115**		ug/L			5415	5776	2	KED
|	**Cd**	**111**	**0.177**	ug/L	0.017	9	1	39	11	KED
⌊	**Cd**	**114**	**0.169**	ug/L	0.030	17	1	87	17	KED
⌈>	**Tb**	**159**		ug/L			457409	489149	4	Standard
⌊	**Pb**	**208**	**2.696**	ug/L	0.105	3	92	109586	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0536-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:14:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	72363	3	Standard
	Cl	**37**		ug/L			3318464	44785837	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	359597	2	Standard
|	**Cr**	**52**	**3.344**	ug/L	0.117	3	15747	61729	1	Standard
|	**Cr**	**53**	**23.770**	ug/L	0.726	3	81	39771	0	Standard
⌊	**Mn**	**55**	**92.855**	ug/L	2.112	2	555	1926060	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	15011	1	KED
|	**Ni**	**60**	**2.392**	ug/L	0.089	3	13	1614	3	KED
|	**Ni**	**62**	**3.682**	ug/L	0.185	5	8	411	6	KED
|	**Cu**	**63**	**10.188**	ug/L	0.137	1	28	20384	0	KED
|	**Cu**	**65**	**10.045**	ug/L	0.129	1	17	9928	1	KED
|	**Zn**	**66**	**280.800**	ug/L	1.862	0	33	74465	0	KED
|	**Zn**	**67**	**249.620**	ug/L	5.261	2	3	11303	0	KED
⌊	**As**	**75**	**1.175**	ug/L	0.026	2	5	161	0	KED
	Y	**89**		ug/L			199932	184503	1	Standard
	Kr	**83**		ug/L			55	2614	2	Standard
⌈>	**In-1**	**115**		ug/L			5415	4193	1	KED
|	**Cd**	**111**	**0.313**	ug/L	0.094	30	1	48	27	KED
⌊	**Cd**	**114**	**0.206**	ug/L	0.047	23	1	77	21	KED
⌈>	**Tb**	**159**		ug/L			457409	427012	2	Standard
⌊	**Pb**	**208**	**3.212**	ug/L	0.059	1	92	114017	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-DUP1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, January 10, 2023 07:18:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46050	5	Standard
	Cl	**37**		ug/L			3318464	9472557	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	435361	1	Standard
|	**Cr**	**52**	**17.479**	ug/L	0.342	1	15747	319825	0	Standard
|	**Cr**	**53**	**24.854**	ug/L	0.557	2	81	50357	0	Standard
⌊	**Mn**	**55**	**5.347**	ug/L	0.027	0	555	134867	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20069	1	KED
|	**Ni**	**60**	**2.259**	ug/L	0.040	1	13	2038	0	KED
|	**Ni**	**62**	**2.565**	ug/L	0.192	7	8	385	6	KED
|	**Cu**	**63**	**24.786**	ug/L	0.410	1	28	66263	1	KED
|	**Cu**	**65**	**25.388**	ug/L	0.459	1	17	33518	0	KED
|	**Zn**	**66**	**28.456**	ug/L	0.652	2	33	10118	0	KED
|	**Zn**	**67**	**24.653**	ug/L	0.449	1	3	1496	3	KED
⌊	**As**	**75**	**0.335**	ug/L	0.028	8	5	65	7	KED
	Y	**89**		ug/L			199932	200814	0	Standard
	Kr	**83**		ug/L			55	66	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5541	2	KED
|	**Cd**	**111**	**0.149**	ug/L	0.051	34	1	31	29	KED
⌊	**Cd**	**114**	**0.164**	ug/L	0.030	18	1	81	14	KED
⌈>	**Tb**	**159**		ug/L			457409	486106	3	Standard
⌊	**Pb**	**208**	**0.426**	ug/L	0.016	3	92	17305	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-MS1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, January 10, 2023 07:23:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43978	1	Standard
	Cl	**37**		ug/L			3318464	9366230	4	Standard
⌈>	**Sc**	**45**		ug/L			408513	443408	1	Standard
|	**Cr**	**52**	**42.648**	ug/L	0.410	0	15747	770251	0	Standard
|	**Cr**	**53**	**46.223**	ug/L	0.694	1	81	95321	0	Standard
⌊	**Mn**	**55**	**29.447**	ug/L	0.709	2	555	753736	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20923	1	KED
|	**Ni**	**60**	**28.103**	ug/L	0.049	0	13	26283	1	KED
|	**Ni**	**62**	**28.328**	ug/L	1.230	4	8	4351	5	KED
|	**Cu**	**63**	**50.240**	ug/L	0.859	1	28	139981	0	KED
|	**Cu**	**65**	**51.238**	ug/L	1.188	2	17	70506	2	KED
|	**Zn**	**66**	**103.825**	ug/L	0.413	0	33	38400	1	KED
|	**Zn**	**67**	**93.942**	ug/L	0.765	0	3	5933	2	KED
⌊	**As**	**75**	**26.513**	ug/L	0.322	1	5	4948	1	KED
	Y	**89**		ug/L			199932	207839	2	Standard
	Kr	**83**		ug/L			55	124	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	5581	0	KED
|	**Cd**	**111**	**24.586**	ug/L	0.446	1	1	4973	1	KED
⌊	**Cd**	**114**	**24.953**	ug/L	0.544	2	1	12260	2	KED
⌈>	**Tb**	**159**		ug/L			457409	491432	3	Standard
⌊	**Pb**	**208**	**24.910**	ug/L	0.610	2	92	1016845	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:28:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32672	1	Standard
	Cl	**37**		ug/L			3318464	3853976	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	430854	1	Standard
|	**Cr**	**52**	**0.085**	ug/L	0.023	26	15747	18067	0	Standard
|	**Cr**	**53**	**0.678**	ug/L	0.020	2	81	1442	4	Standard
⌊	**Mn**	**55**	**0.011**	ug/L	0.001	5	555	868	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21760	0	KED
|	**Ni**	**60**	**-0.012**	ug/L	0.001	9	13	3	34	KED
|	**Ni**	**62**	**0.010**	ug/L	0.014	142	8	10	20	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	35	28	55	15	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	98	17	24	19	KED
|	**Zn**	**66**	**0.019**	ug/L	0.016	81	33	45	13	KED
|	**Zn**	**67**	**0.090**	ug/L	0.044	49	3	10	28	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.012	766	5	5	41	KED
	Y	**89**		ug/L			199932	208753	1	Standard
	Kr	**83**		ug/L			55	52	20	Standard
⌈>	**In-1**	**115**		ug/L			5415	5908	3	KED
|	**Cd**	**111**	**0.005**	ug/L	0.014	282	1	3	96	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	800	1	2	120	KED
⌈>	**Tb**	**159**		ug/L			457409	488977	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	18	92	252	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:32:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32829	2	Standard
	Cl	**37**		ug/L			3318464	3828910	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	436149	1	Standard
|	**Cr**	**52**	**51.140**	ug/L	0.501	0	15747	905169	0	Standard
|	**Cr**	**53**	**51.343**	ug/L	0.769	1	81	104141	1	Standard
⌊	**Mn**	**55**	**52.117**	ug/L	0.697	1	555	1311988	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21735	0	KED
|	**Ni**	**60**	**51.373**	ug/L	0.445	0	13	49899	0	KED
|	**Ni**	**62**	**49.701**	ug/L	0.941	1	8	7922	1	KED
|	**Cu**	**63**	**51.021**	ug/L	0.847	1	28	147707	1	KED
|	**Cu**	**65**	**50.777**	ug/L	0.663	1	17	72594	1	KED
|	**Zn**	**66**	**51.553**	ug/L	0.870	1	33	19827	1	KED
|	**Zn**	**67**	**51.114**	ug/L	0.391	0	3	3355	0	KED
⌊	**As**	**75**	**51.747**	ug/L	0.321	0	5	10028	0	KED
	Y	**89**		ug/L			199932	216510	5	Standard
	Kr	**83**		ug/L			55	43	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5938	1	KED
|	**Cd**	**111**	**50.998**	ug/L	1.121	2	1	10972	1	KED
⌊	**Cd**	**114**	**52.391**	ug/L	1.022	1	1	27378	0	KED
⌈>	**Tb**	**159**		ug/L			457409	499124	3	Standard
⌊	**Pb**	**208**	**51.954**	ug/L	1.190	2	92	2154016	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:39:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	29955	2	Standard
	Cl	**37**		ug/L			3318464	3570965	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	408860	0	Standard
|	**Cr**	**52**	**0.054**	ug/L	0.022	40	15747	16648	3	Standard
|	**Cr**	**53**	**0.267**	ug/L	0.010	3	81	587	2	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.002	26	555	699	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	20392	1	KED
|	**Ni**	**60**	**0.014**	ug/L	0.020	143	13	26	68	KED
|	**Ni**	**62**	**0.015**	ug/L	0.054	365	8	10	73	KED
|	**Cu**	**63**	**0.028**	ug/L	0.031	110	28	105	79	KED
|	**Cu**	**65**	**0.029**	ug/L	0.048	168	17	56	114	KED
|	**Zn**	**66**	**0.124**	ug/L	0.090	72	33	80	40	KED
|	**Zn**	**67**	**0.204**	ug/L	0.110	53	3	16	40	KED
⌊	**As**	**75**	**0.016**	ug/L	0.029	181	5	8	64	KED
	Y	**89**		ug/L			199932	198779	2	Standard
	Kr	**83**		ug/L			55	48	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5592	0	KED
|	**Cd**	**111**	**0.006**	ug/L	0.015	253	1	3	96	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.006	585	1	2	121	KED
⌈>	**Tb**	**159**		ug/L			457409	461457	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	12	92	231	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0523-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:43:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	45919	1	Standard
	Cl	**37**		ug/L			3318464	3930683	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	461672	1	Standard
|	**Cr**	**52**	**1.132**	ug/L	0.015	1	15747	38604	0	Standard
|	**Cr**	**53**	**1.662**	ug/L	0.036	2	81	3656	2	Standard
⌊	**Mn**	**55**	**23.634**	ug/L	0.452	1	555	629960	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	21545	1	KED
|	**Ni**	**60**	**1.088**	ug/L	0.025	2	13	1061	1	KED
|	**Ni**	**62**	**1.049**	ug/L	0.062	5	8	174	3	KED
|	**Cu**	**63**	**6.072**	ug/L	0.166	2	28	17448	1	KED
|	**Cu**	**65**	**6.011**	ug/L	0.162	2	17	8532	1	KED
|	**Zn**	**66**	**159.680**	ug/L	4.687	2	33	60776	1	KED
|	**Zn**	**67**	**149.875**	ug/L	4.288	2	3	9741	1	KED
⌊	**As**	**75**	**0.263**	ug/L	0.020	7	5	56	5	KED
	Y	**89**		ug/L			199932	224900	1	Standard
	Kr	**83**		ug/L			55	38	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5836	0	KED
|	**Cd**	**111**	**0.074**	ug/L	0.013	17	1	17	15	KED
⌊	**Cd**	**114**	**0.077**	ug/L	0.013	17	1	41	16	KED
⌈>	**Tb**	**159**		ug/L			457409	503216	4	Standard
⌊	**Pb**	**208**	**3.582**	ug/L	0.144	4	92	149711	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0540-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:48:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46915	4	Standard
	Cl	**37**		ug/L			3318464	4029684	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	440839	0	Standard
|	**Cr**	**52**	**1.798**	ug/L	0.065	3	15747	48562	1	Standard
|	**Cr**	**53**	**2.240**	ug/L	0.023	1	81	4675	1	Standard
⌊	**Mn**	**55**	**2.963**	ug/L	0.008	0	555	75955	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	21408	1	KED
|	**Ni**	**60**	**0.714**	ug/L	0.029	4	13	697	2	KED
|	**Ni**	**62**	**0.618**	ug/L	0.044	7	8	106	5	KED
|	**Cu**	**63**	**5.598**	ug/L	0.102	1	28	15986	0	KED
|	**Cu**	**65**	**5.418**	ug/L	0.098	1	17	7646	2	KED
|	**Zn**	**66**	**63.085**	ug/L	0.539	0	33	23886	1	KED
|	**Zn**	**67**	**59.096**	ug/L	3.677	6	3	3817	4	KED
⌊	**As**	**75**	**0.369**	ug/L	0.025	6	5	76	5	KED
	Y	**89**		ug/L			199932	216759	2	Standard
	Kr	**83**		ug/L			55	47	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5856	4	KED
|	**Cd**	**111**	**0.055**	ug/L	0.018	33	1	13	29	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.012	27	1	24	26	KED
⌈>	**Tb**	**159**		ug/L			457409	496838	2	Standard
⌊	**Pb**	**208**	**0.929**	ug/L	0.016	1	92	38464	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0542-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:52:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	49286	2	Standard
	Cl	**37**		ug/L			3318464	5333242	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	439861	2	Standard
|	**Cr**	**52**	**1.950**	ug/L	0.041	2	15747	51102	1	Standard
|	**Cr**	**53**	**3.265**	ug/L	0.103	3	81	6758	1	Standard
⌊	**Mn**	**55**	**12.410**	ug/L	0.336	2	555	315353	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20670	1	KED
|	**Ni**	**60**	**1.364**	ug/L	0.023	1	13	1273	1	KED
|	**Ni**	**62**	**1.339**	ug/L	0.067	5	8	211	4	KED
|	**Cu**	**63**	**10.573**	ug/L	0.133	1	28	29136	2	KED
|	**Cu**	**65**	**10.670**	ug/L	0.129	1	17	14521	1	KED
|	**Zn**	**66**	**133.560**	ug/L	1.550	1	33	48786	0	KED
|	**Zn**	**67**	**123.167**	ug/L	4.343	3	3	7682	3	KED
⌊	**As**	**75**	**0.796**	ug/L	0.032	4	5	152	5	KED
	Y	**89**		ug/L			199932	211968	1	Standard
	Kr	**83**		ug/L			55	41	19	Standard
⌈>	**In-1**	**115**		ug/L			5415	5794	2	KED
|	**Cd**	**111**	**0.099**	ug/L	0.016	16	1	22	12	KED
⌊	**Cd**	**114**	**0.094**	ug/L	0.018	18	1	50	16	KED
⌈>	**Tb**	**159**		ug/L			457409	487729	5	Standard
⌊	**Pb**	**208**	**6.348**	ug/L	0.343	5	92	256922	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:57:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	43851	0	Standard
	Cl	37		ug/L			3318464	3700060	1	Standard
⌈>	Sc	45		ug/L			408513	416761	1	Standard
|	Cr	52	0.414	ug/L	0.031	7	15747	22932	1	Standard
|	Cr	53	0.604	ug/L	0.007	1	81	1251	1	Standard
⌊	Mn	55	5.422	ug/L	0.105	1	555	130903	1	Standard
⌈>	Ge	72		ug/L			19427	21262	0	KED
|	Ni	60	0.229	ug/L	0.031	13	13	232	13	KED
|	Ni	62	0.207	ug/L	0.097	46	8	41	37	KED
|	Cu	63	1.698	ug/L	0.016	0	28	4839	1	KED
|	Cu	65	1.709	ug/L	0.026	1	17	2409	2	KED
|	Zn	66	14.587	ug/L	0.267	1	33	5514	1	KED
|	Zn	67	12.104	ug/L	0.438	3	3	780	2	KED
⌊	As	75	0.183	ug/L	0.023	12	5	40	11	KED
	Y	89		ug/L			199932	205769	1	Standard
	Kr	83		ug/L			55	46	26	Standard
⌈>	In-1	115		ug/L			5415	5761	2	KED
|	Cd	111	0.098	ug/L	0.017	17	1	22	17	KED
⌊	Cd	114	0.112	ug/L	0.025	22	1	59	22	KED
⌈>	Tb	159		ug/L			457409	474819	3	Standard
⌊	Pb	208	4.591	ug/L	0.202	4	92	181072	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:01:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	42423	3	Standard
	Cl	**37**		ug/L			3318464	3617262	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	417780	0	Standard
|	**Cr**	**52**	**0.323**	ug/L	0.031	9	15747	21471	1	Standard
|	**Cr**	**53**	**0.436**	ug/L	0.020	4	81	928	3	Standard
⌊	**Mn**	**55**	**1.800**	ug/L	0.016	0	555	43955	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20962	1	KED
|	**Ni**	**60**	**0.100**	ug/L	0.017	16	13	107	14	KED
|	**Ni**	**62**	**0.100**	ug/L	0.040	40	8	24	24	KED
|	**Cu**	**63**	**0.621**	ug/L	0.022	3	28	1762	2	KED
|	**Cu**	**65**	**0.559**	ug/L	0.051	9	17	788	8	KED
|	**Zn**	**66**	**10.897**	ug/L	0.233	2	33	4069	0	KED
|	**Zn**	**67**	**9.377**	ug/L	0.287	3	3	596	2	KED
⌊	**As**	**75**	**0.184**	ug/L	0.005	2	5	39	3	KED
	Y	**89**		ug/L			199932	205922	0	Standard
	Kr	**83**		ug/L			55	38	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5856	2	KED
|	**Cd**	**111**	**0.035**	ug/L	0.009	24	1	9	17	KED
⌊	**Cd**	**114**	**0.032**	ug/L	0.020	62	1	18	54	KED
⌈>	**Tb**	**159**		ug/L			457409	470943	2	Standard
⌊	**Pb**	**208**	**1.244**	ug/L	0.030	2	92	48750	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:05:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40565	0	Standard
	Cl	**37**		ug/L			3318464	3655989	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	416430	2	Standard
|	**Cr**	**52**	**0.559**	ug/L	0.050	8	15747	25316	1	Standard
|	**Cr**	**53**	**0.678**	ug/L	0.034	4	81	1394	3	Standard
⌊	**Mn**	**55**	**5.240**	ug/L	0.099	1	555	126440	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21519	0	KED
|	**Ni**	**60**	**0.332**	ug/L	0.035	10	13	333	10	KED
|	**Ni**	**62**	**0.256**	ug/L	0.033	12	8	49	10	KED
|	**Cu**	**63**	**1.494**	ug/L	0.034	2	28	4311	2	KED
|	**Cu**	**65**	**1.489**	ug/L	0.065	4	17	2125	4	KED
|	**Zn**	**66**	**12.349**	ug/L	0.306	2	33	4730	2	KED
|	**Zn**	**67**	**11.283**	ug/L	0.427	3	3	736	3	KED
⌊	**As**	**75**	**0.157**	ug/L	0.026	16	5	35	14	KED
	Y	**89**		ug/L			199932	200972	1	Standard
	Kr	**83**		ug/L			55	36	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	6130	2	KED
|	**Cd**	**111**	**0.017**	ug/L	0.009	52	1	6	36	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.005	38	1	9	32	KED
⌈>	**Tb**	**159**		ug/L			457409	469615	5	Standard
⌊	**Pb**	**208**	**2.025**	ug/L	0.047	2	92	79080	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0545-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:10:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	38911	1	Standard
	Cl	**37**		ug/L			3318464	3496197	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	439207	1	Standard
|	**Cr**	**52**	**2.993**	ug/L	0.029	0	15747	69300	2	Standard
|	**Cr**	**53**	**3.177**	ug/L	0.105	3	81	6570	2	Standard
⌊	**Mn**	**55**	**50.355**	ug/L	1.701	3	555	1275969	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21059	1	KED
|	**Ni**	**60**	**3.909**	ug/L	0.102	2	13	3691	1	KED
|	**Ni**	**62**	**3.952**	ug/L	0.096	2	8	618	1	KED
|	**Cu**	**63**	**111.264**	ug/L	3.415	3	28	311963	1	KED
|	**Cu**	**65**	**112.206**	ug/L	3.498	3	17	155363	1	KED
|	**Zn**	**66**	**85.157**	ug/L	2.201	2	33	31703	1	KED
|	**Zn**	**67**	**75.845**	ug/L	0.627	0	3	4821	1	KED
⌊	**As**	**75**	**0.921**	ug/L	0.038	4	5	178	3	KED
	Y	**89**		ug/L			199932	230715	1	Standard
	Kr	**83**		ug/L			55	50	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5835	2	KED
|	**Cd**	**111**	**0.114**	ug/L	0.035	30	1	26	25	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.017	16	1	53	15	KED
⌈>	**Tb**	**159**		ug/L			457409	474970	4	Standard
⌊	**Pb**	**208**	**10.334**	ug/L	0.248	2	92	407679	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0546-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:14:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	47491	2	Standard
	Cl	**37**		ug/L			3318464	3761871	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	435530	1	Standard
|	**Cr**	**52**	**0.359**	ug/L	0.009	2	15747	23021	1	Standard
|	**Cr**	**53**	**0.738**	ug/L	0.025	3	81	1581	4	Standard
⌊	**Mn**	**55**	**13.529**	ug/L	0.234	1	555	340575	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	21065	1	KED
|	**Ni**	**60**	**1.278**	ug/L	0.104	8	13	1216	7	KED
|	**Ni**	**62**	**1.140**	ug/L	0.028	2	8	184	1	KED
|	**Cu**	**63**	**6.402**	ug/L	0.170	2	28	17987	2	KED
|	**Cu**	**65**	**6.410**	ug/L	0.096	1	17	8896	1	KED
|	**Zn**	**66**	**213.261**	ug/L	2.813	1	33	79385	2	KED
|	**Zn**	**67**	**187.414**	ug/L	3.654	1	3	11914	3	KED
⌊	**As**	**75**	**0.315**	ug/L	0.038	11	5	64	12	KED
	Y	**89**		ug/L			199932	213847	3	Standard
	Kr	**83**		ug/L			55	40	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5934	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.004	7	1	13	7	KED
⌊	**Cd**	**114**	**0.059**	ug/L	0.016	26	1	32	23	KED
⌈>	**Tb**	**159**		ug/L			457409	487352	3	Standard
⌊	**Pb**	**208**	**0.254**	ug/L	0.009	3	92	10381	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0546-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:18:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	50965	1	Standard
	Cl	**37**		ug/L			3318464	3717283	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	482502	1	Standard
|	**Cr**	**52**	**0.524**	ug/L	0.016	3	15747	28665	1	Standard
|	**Cr**	**53**	**0.733**	ug/L	0.018	2	81	1740	2	Standard
⌊	**Mn**	**55**	**10.486**	ug/L	0.272	2	555	292470	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21934	1	KED
|	**Ni**	**60**	**0.705**	ug/L	0.077	10	13	704	9	KED
|	**Ni**	**62**	**0.641**	ug/L	0.026	4	8	112	4	KED
|	**Cu**	**63**	**8.029**	ug/L	0.155	1	28	23479	0	KED
|	**Cu**	**65**	**7.974**	ug/L	0.179	2	17	11519	1	KED
|	**Zn**	**66**	**141.640**	ug/L	1.393	0	33	54906	1	KED
|	**Zn**	**67**	**123.924**	ug/L	3.182	2	3	8203	3	KED
⌊	**As**	**75**	**0.600**	ug/L	0.042	7	5	123	5	KED
	Y	**89**		ug/L			199932	223391	3	Standard
	Kr	**83**		ug/L			55	46	21	Standard
⌈>	**In-1**	**115**		ug/L			5415	5799	2	KED
|	**Cd**	**111**	**0.090**	ug/L	0.015	16	1	20	13	KED
⌊	**Cd**	**114**	**0.099**	ug/L	0.023	23	1	52	21	KED
⌈>	**Tb**	**159**		ug/L			457409	503616	3	Standard
⌊	**Pb**	**208**	**1.647**	ug/L	0.029	1	92	69013	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0547-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:24:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	61706	1	Standard
	Cl	**37**		ug/L			3318464	9362251	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	444137	3	Standard
|	**Cr**	**52**	**1.398**	ug/L	0.064	4	15747	41819	0	Standard
|	**Cr**	**53**	**4.986**	ug/L	0.196	3	81	10369	0	Standard
⌊	**Mn**	**55**	**2.608**	ug/L	0.141	5	555	67358	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	19551	1	KED
|	**Ni**	**60**	**3.834**	ug/L	0.047	1	13	3361	1	KED
|	**Ni**	**62**	**4.014**	ug/L	0.292	7	8	582	6	KED
|	**Cu**	**63**	**70.251**	ug/L	2.226	3	28	182861	1	KED
|	**Cu**	**65**	**71.953**	ug/L	1.881	2	17	92499	0	KED
|	**Zn**	**66**	**488.968**	ug/L	3.227	0	33	168857	1	KED
|	**Zn**	**67**	**433.856**	ug/L	7.914	1	3	25587	2	KED
⌊	**As**	**75**	**1.428**	ug/L	0.102	7	5	253	5	KED
	Y	**89**		ug/L			199932	211673	1	Standard
	Kr	**83**		ug/L			55	57	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5528	0	KED
|	**Cd**	**111**	**0.759**	ug/L	0.037	4	1	153	4	KED
⌊	**Cd**	**114**	**0.784**	ug/L	0.047	6	1	383	6	KED
⌈>	**Tb**	**159**		ug/L			457409	493334	3	Standard
⌊	**Pb**	**208**	**0.507**	ug/L	0.019	3	92	20847	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:32:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31794	5	Standard
	Cl	**37**		ug/L			3318464	3712270	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	425363	4	Standard
⎢	**Cr**	**52**	**51.087**	ug/L	0.419	0	15747	881752	3	Standard
⎢	**Cr**	**53**	**51.068**	ug/L	0.505	0	81	101022	4	Standard
⎣	**Mn**	**55**	**51.893**	ug/L	1.017	1	555	1273383	2	Standard
⎡>	**Ge**	**72**		ug/L			19427	20738	1	KED
⎢	**Ni**	**60**	**50.850**	ug/L	1.099	2	13	47115	0	KED
⎢	**Ni**	**62**	**50.492**	ug/L	1.292	2	8	7676	1	KED
⎢	**Cu**	**63**	**49.409**	ug/L	1.167	2	28	136462	2	KED
⎢	**Cu**	**65**	**49.846**	ug/L	1.107	2	17	67981	0	KED
⎢	**Zn**	**66**	**50.636**	ug/L	1.107	2	33	18577	0	KED
⎢	**Zn**	**67**	**50.325**	ug/L	1.843	3	3	3150	2	KED
⎣	**As**	**75**	**49.995**	ug/L	1.497	2	5	9242	1	KED
	Y	**89**		ug/L			199932	208978	5	Standard
	Kr	**83**		ug/L			55	56	7	Standard
⎡>	**In-1**	**115**		ug/L			5415	5699	1	KED
⎢	**Cd**	**111**	**49.602**	ug/L	1.197	2	1	10242	1	KED
⎣	**Cd**	**114**	**50.166**	ug/L	1.564	3	1	25164	3	KED
⎡>	**Tb**	**159**		ug/L			457409	485359	5	Standard
⎣	**Pb**	**208**	**52.206**	ug/L	2.038	3	92	2102625	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:39:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30209	3	Standard
	Cl	**37**		ug/L			3318464	3596592	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	403045	1	Standard
|	**Cr**	**52**	**0.029**	ug/L	0.008	26	15747	16008	1	Standard
|	**Cr**	**53**	**0.128**	ug/L	0.003	2	81	320	3	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	52	555	625	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	21913	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.002	38	13	9	20	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.019	177	8	7	43	KED
|	**Cu**	**63**	**0.010**	ug/L	0.003	31	28	62	16	KED
|	**Cu**	**65**	**0.006**	ug/L	0.002	32	17	27	7	KED
|	**Zn**	**66**	**0.062**	ug/L	0.039	62	33	61	21	KED
|	**Zn**	**67**	**0.071**	ug/L	0.113	159	3	8	81	KED
⌊	**As**	**75**	**0.002**	ug/L	0.013	746	5	6	40	KED
	Y	**89**		ug/L			199932	192600	2	Standard
	Kr	**83**		ug/L			55	52	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5970	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	238	1	1	69	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	125	1	1	112	KED
⌈>	**Tb**	**159**		ug/L			457409	456893	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	16	92	231	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0549-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:44:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	48055	0	Standard
	Cl	**37**		ug/L			3318464	3704542	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	438676	2	Standard
|	**Cr**	**52**	**0.848**	ug/L	0.037	4	15747	31725	3	Standard
|	**Cr**	**53**	**0.882**	ug/L	0.022	2	81	1885	4	Standard
⌊	**Mn**	**55**	**9.261**	ug/L	0.077	0	555	234950	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20753	1	KED
|	**Ni**	**60**	**0.527**	ug/L	0.021	4	13	502	3	KED
|	**Ni**	**62**	**0.474**	ug/L	0.098	20	8	80	16	KED
|	**Cu**	**63**	**3.779**	ug/L	0.027	0	28	10474	1	KED
|	**Cu**	**65**	**3.721**	ug/L	0.081	2	17	5094	1	KED
|	**Zn**	**66**	**188.434**	ug/L	2.218	1	33	69096	1	KED
|	**Zn**	**67**	**168.431**	ug/L	1.290	0	3	10547	1	KED
⌊	**As**	**75**	**0.184**	ug/L	0.018	9	5	39	7	KED
	Y	**89**		ug/L			199932	218062	2	Standard
	Kr	**83**		ug/L			55	59	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5739	4	KED
|	**Cd**	**111**	**0.064**	ug/L	0.018	29	1	15	25	KED
⌊	**Cd**	**114**	**0.044**	ug/L	0.019	41	1	24	42	KED
⌈>	**Tb**	**159**		ug/L			457409	490148	3	Standard
⌊	**Pb**	**208**	**3.069**	ug/L	0.058	1	92	125048	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0549-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:48:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43657	0	Standard
	Cl	**37**		ug/L			3318464	3658474	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	422079	0	Standard
|	**Cr**	**52**	**1.009**	ug/L	0.012	1	15747	33228	0	Standard
|	**Cr**	**53**	**1.017**	ug/L	0.028	2	81	2078	2	Standard
⌊	**Mn**	**55**	**5.766**	ug/L	0.126	2	555	140969	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20820	1	KED
|	**Ni**	**60**	**0.448**	ug/L	0.012	2	13	431	3	KED
|	**Ni**	**62**	**0.379**	ug/L	0.028	7	8	66	4	KED
|	**Cu**	**63**	**3.316**	ug/L	0.038	1	28	9223	0	KED
|	**Cu**	**65**	**3.327**	ug/L	0.104	3	17	4574	3	KED
|	**Zn**	**66**	**167.344**	ug/L	3.320	1	33	61575	3	KED
|	**Zn**	**67**	**148.651**	ug/L	4.591	3	3	9337	2	KED
⌊	**As**	**75**	**0.150**	ug/L	0.021	14	5	33	13	KED
	Y	**89**		ug/L			199932	207357	2	Standard
	Kr	**83**		ug/L			55	36	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	5774	4	KED
|	**Cd**	**111**	**0.046**	ug/L	0.025	55	1	11	41	KED
⌊	**Cd**	**114**	**0.039**	ug/L	0.010	27	1	21	22	KED
⌈>	**Tb**	**159**		ug/L			457409	474673	2	Standard
⌊	**Pb**	**208**	**1.989**	ug/L	0.047	2	92	78518	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0550-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:52:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40883	3	Standard
	Cl	**37**		ug/L			3318464	3612005	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	453549	3	Standard
|	**Cr**	**52**	**0.188**	ug/L	0.036	19	15747	20862	0	Standard
|	**Cr**	**53**	**0.284**	ug/L	0.020	7	81	689	7	Standard
⌊	**Mn**	**55**	**3.705**	ug/L	0.107	2	555	97489	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21244	4	KED
|	**Ni**	**60**	**0.315**	ug/L	0.034	10	13	312	7	KED
|	**Ni**	**62**	**0.253**	ug/L	0.065	25	8	48	20	KED
|	**Cu**	**63**	**2.226**	ug/L	0.073	3	28	6323	3	KED
|	**Cu**	**65**	**2.248**	ug/L	0.119	5	17	3155	1	KED
|	**Zn**	**66**	**31.792**	ug/L	0.338	1	33	11968	5	KED
|	**Zn**	**67**	**27.264**	ug/L	1.079	3	3	1752	7	KED
⌊	**As**	**75**	**0.102**	ug/L	0.013	13	5	24	6	KED
	Y	**89**		ug/L			199932	218574	2	Standard
	Kr	**83**		ug/L			55	46	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	6221	4	KED
|	**Cd**	**111**	**0.013**	ug/L	0.005	38	1	5	21	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.005	69	1	6	44	KED
⌈>	**Tb**	**159**		ug/L			457409	499761	5	Standard
⌊	**Pb**	**208**	**1.312**	ug/L	0.060	4	92	54495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0551-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:57:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	48956	1	Standard
	Cl	**37**		ug/L			3318464	3670526	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	457755	1	Standard
|	**Cr**	**52**	**0.579**	ug/L	0.029	4	15747	28204	1	Standard
|	**Cr**	**53**	**0.753**	ug/L	0.013	1	81	1691	0	Standard
⌊	**Mn**	**55**	**8.170**	ug/L	0.125	1	555	216381	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21408	0	KED
|	**Ni**	**60**	**0.531**	ug/L	0.016	2	13	522	3	KED
|	**Ni**	**62**	**0.512**	ug/L	0.114	22	8	89	20	KED
|	**Cu**	**63**	**5.284**	ug/L	0.208	3	28	15094	4	KED
|	**Cu**	**65**	**5.326**	ug/L	0.048	0	17	7516	0	KED
|	**Zn**	**66**	**47.155**	ug/L	0.820	1	33	17864	1	KED
|	**Zn**	**67**	**41.932**	ug/L	0.491	1	3	2712	1	KED
⌊	**As**	**75**	**0.392**	ug/L	0.012	2	5	80	2	KED
	Y	**89**		ug/L			199932	214863	1	Standard
	Kr	**83**		ug/L			55	45	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	5966	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.017	32	1	13	28	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.016	48	1	19	44	KED
⌈>	**Tb**	**159**		ug/L			457409	484836	4	Standard
⌊	**Pb**	**208**	**0.777**	ug/L	0.036	4	92	31375	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0552-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:01:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	39475	2	Standard
	Cl	**37**		ug/L			3318464	3612996	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	426365	1	Standard
|	**Cr**	**52**	**0.835**	ug/L	0.036	4	15747	30608	0	Standard
|	**Cr**	**53**	**0.926**	ug/L	0.036	3	81	1918	1	Standard
⌊	**Mn**	**55**	**14.974**	ug/L	0.375	2	555	368797	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21161	2	KED
|	**Ni**	**60**	**0.644**	ug/L	0.031	4	13	622	3	KED
|	**Ni**	**62**	**0.566**	ug/L	0.087	15	8	96	11	KED
|	**Cu**	**63**	**2.848**	ug/L	0.120	4	28	8052	1	KED
|	**Cu**	**65**	**2.912**	ug/L	0.087	2	17	4068	1	KED
|	**Zn**	**66**	**100.665**	ug/L	3.149	3	33	37638	0	KED
|	**Zn**	**67**	**88.356**	ug/L	4.563	5	3	5639	3	KED
⌊	**As**	**75**	**0.185**	ug/L	0.033	17	5	40	17	KED
	Y	**89**		ug/L			199932	211332	1	Standard
	Kr	**83**		ug/L			55	39	10	Standard
⌈>	**In-1**	**115**		ug/L			5415	5813	2	KED
|	**Cd**	**111**	**0.039**	ug/L	0.012	32	1	10	23	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.000	1	1	16	3	KED
⌈>	**Tb**	**159**		ug/L			457409	480481	4	Standard
⌊	**Pb**	**208**	**1.376**	ug/L	0.051	3	92	54960	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0553-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:05:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46289	2	Standard
	Cl	**37**		ug/L			3318464	3604765	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	431442	4	Standard
|	**Cr**	**52**	**0.351**	ug/L	0.033	9	15747	22652	2	Standard
|	**Cr**	**53**	**0.326**	ug/L	0.004	1	81	739	4	Standard
⌊	**Mn**	**55**	**3.398**	ug/L	0.051	1	555	85136	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	20824	1	KED
|	**Ni**	**60**	**0.288**	ug/L	0.042	14	13	282	14	KED
|	**Ni**	**62**	**0.208**	ug/L	0.058	27	8	40	21	KED
|	**Cu**	**63**	**1.501**	ug/L	0.033	2	28	4192	1	KED
|	**Cu**	**65**	**1.475**	ug/L	0.078	5	17	2038	5	KED
|	**Zn**	**66**	**72.333**	ug/L	1.028	1	33	26636	1	KED
|	**Zn**	**67**	**64.667**	ug/L	1.018	1	3	4065	0	KED
⌊	**As**	**75**	**0.156**	ug/L	0.007	4	5	34	4	KED
	Y	**89**		ug/L			199932	210937	3	Standard
	Kr	**83**		ug/L			55	55	20	Standard
⌈>	**In-1**	**115**		ug/L			5415	6126	1	KED
|	**Cd**	**111**	**0.019**	ug/L	0.005	26	1	6	17	KED
⌊	**Cd**	**114**	**0.025**	ug/L	0.007	26	1	15	24	KED
⌈>	**Tb**	**159**		ug/L			457409	483078	6	Standard
⌊	**Pb**	**208**	**0.320**	ug/L	0.013	3	92	12936	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0554-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:10:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	49934	1	Standard
	Cl	37		ug/L			3318464	3799721	0	Standard
⌈>	Sc	45		ug/L			408513	432185	2	Standard
|	Cr	52	1.215	ug/L	0.011	0	15747	37569	2	Standard
|	Cr	53	1.492	ug/L	0.032	2	81	3081	1	Standard
⌊	Mn	55	64.166	ug/L	0.454	0	555	1600218	1	Standard
⌈>	Ge	72		ug/L			19427	20626	2	KED
|	Ni	60	33.597	ug/L	0.744	2	13	30963	0	KED
|	Ni	62	33.669	ug/L	1.644	4	8	5092	2	KED
|	Cu	63	67.036	ug/L	2.008	2	28	184076	0	KED
|	Cu	65	68.135	ug/L	1.385	2	17	92419	1	KED
|	Zn	66	24.753	ug/L	0.855	3	33	9048	1	KED
|	Zn	67	23.377	ug/L	1.425	6	3	1457	4	KED
⌊	As	75	0.502	ug/L	0.062	12	5	97	12	KED
	Y	89		ug/L			199932	207457	2	Standard
	Kr	83		ug/L			55	46	22	Standard
⌈>	In-1	115		ug/L			5415	5885	0	KED
|	Cd	111	0.296	ug/L	0.049	16	1	65	15	KED
⌊	Cd	114	0.311	ug/L	0.000	0	1	163	0	KED
⌈>	Tb	159		ug/L			457409	471305	3	Standard
⌊	Pb	208	8.164	ug/L	0.264	3	92	319597	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0554-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:14:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	52582	0	Standard
	Cl	37		ug/L			3318464	3867292	1	Standard
⌈>	Sc	45		ug/L			408513	421927	0	Standard
|	Cr	52	0.693	ug/L	0.036	5	15747	27915	2	Standard
|	Cr	53	1.351	ug/L	0.019	1	81	2732	1	Standard
⌊	Mn	55	1.707	ug/L	0.006	0	555	42111	0	Standard
⌈>	Ge	72		ug/L			19427	20767	0	KED
|	Ni	60	4.146	ug/L	0.119	2	13	3860	2	KED
|	Ni	62	3.982	ug/L	0.216	5	8	614	5	KED
|	Cu	63	10.911	ug/L	0.310	2	28	30203	2	KED
|	Cu	65	11.248	ug/L	0.323	2	17	15378	2	KED
|	Zn	66	3.154	ug/L	0.147	4	33	1193	5	KED
|	Zn	67	3.077	ug/L	0.337	10	3	196	10	KED
⌊	As	75	0.191	ug/L	0.030	15	5	40	12	KED
	Y	89		ug/L			199932	205403	1	Standard
	Kr	83		ug/L			55	46	2	Standard
⌈>	In-1	115		ug/L			5415	5667	2	KED
|	Cd	111	0.023	ug/L	0.018	76	1	6	51	KED
⌊	Cd	114	0.038	ug/L	0.012	32	1	20	28	KED
⌈>	Tb	159		ug/L			457409	467988	4	Standard
⌊	Pb	208	1.871	ug/L	0.054	2	92	72798	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0555-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:18:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	96660	1	Standard
	Cl	37		ug/L			3318464	3971335	2	Standard
⌈>	Sc	45		ug/L			408513	451429	1	Standard
|	Cr	52	1.150	ug/L	0.035	3	15747	38092	3	Standard
|	Cr	53	1.552	ug/L	0.047	2	81	3344	1	Standard
⌊	Mn	55	8.873	ug/L	0.064	0	555	231663	1	Standard
⌈>	Ge	72		ug/L			19427	20656	2	KED
|	Ni	60	0.913	ug/L	0.085	9	13	856	8	KED
|	Ni	62	0.927	ug/L	0.100	10	8	149	11	KED
|	Cu	63	6.054	ug/L	0.031	0	28	16682	1	KED
|	Cu	65	6.111	ug/L	0.056	0	17	8318	1	KED
|	Zn	66	75.267	ug/L	1.409	1	33	27485	0	KED
|	Zn	67	67.567	ug/L	1.891	2	3	4212	2	KED
⌊	As	75	0.291	ug/L	0.007	2	5	58	0	KED
	Y	89		ug/L			199932	223499	3	Standard
	Kr	83		ug/L			55	44	10	Standard
⌈>	In-1	115		ug/L			5415	5889	4	KED
|	Cd	111	0.312	ug/L	0.039	12	1	68	15	KED
⌊	Cd	114	0.291	ug/L	0.019	6	1	153	8	KED
⌈>	Tb	159		ug/L			457409	504449	3	Standard
⌊	Pb	208	1.158	ug/L	0.042	3	92	48617	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0556-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:24:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	46977	1	Standard
	Cl	37		ug/L			3318464	3685710	2	Standard
⌈>	Sc	45		ug/L			408513	431243	2	Standard
|	Cr	52	0.594	ug/L	0.039	6	15747	26807	0	Standard
|	Cr	53	0.628	ug/L	0.011	1	81	1343	2	Standard
⌊	Mn	55	8.247	ug/L	0.180	2	555	205701	0	Standard
⌈>	Ge	72		ug/L			19427	20826	3	KED
|	Ni	60	0.449	ug/L	0.032	7	13	432	7	KED
|	Ni	62	0.390	ug/L	0.111	28	8	68	26	KED
|	Cu	63	3.462	ug/L	0.052	1	28	9632	3	KED
|	Cu	65	3.540	ug/L	0.271	7	17	4860	5	KED
|	Zn	66	27.728	ug/L	0.943	3	33	10227	1	KED
|	Zn	67	25.657	ug/L	0.798	3	3	1616	6	KED
⌊	As	75	0.995	ug/L	0.084	8	5	190	9	KED
	Y	89		ug/L			199932	204874	1	Standard
	Kr	83		ug/L			55	46	6	Standard
⌈>	In-1	115		ug/L			5415	6070	2	KED
|	Cd	111	0.093	ug/L	0.007	7	1	22	4	KED
⌊	Cd	114	0.097	ug/L	0.009	9	1	53	6	KED
⌈>	Tb	159		ug/L			457409	472358	5	Standard
⌊	Pb	208	0.518	ug/L	0.020	3	92	20382	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVM
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:32:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32341	2	Standard
	Cl	**37**		ug/L			3318464	3720716	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	432297	0	Standard
⎢	**Cr**	**52**	**50.387**	ug/L	0.595	1	15747	884217	0	Standard
⎢	**Cr**	**53**	**50.590**	ug/L	0.950	1	81	101714	1	Standard
⎣	**Mn**	**55**	**51.878**	ug/L	0.507	0	555	1294415	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	20405	2	KED
⎢	**Ni**	**60**	**51.402**	ug/L	1.519	2	13	46852	1	KED
⎢	**Ni**	**62**	**50.393**	ug/L	0.834	1	8	7539	1	KED
⎢	**Cu**	**63**	**50.650**	ug/L	1.654	3	28	137594	1	KED
⎢	**Cu**	**65**	**51.154**	ug/L	1.806	3	17	68635	2	KED
⎢	**Zn**	**66**	**52.407**	ug/L	1.052	2	33	18916	0	KED
⎢	**Zn**	**67**	**53.199**	ug/L	1.702	3	3	3277	2	KED
⎣	**As**	**75**	**50.923**	ug/L	1.316	2	5	9262	1	KED
	Y	**89**		ug/L			199932	212038	2	Standard
	Kr	**83**		ug/L			55	61	7	Standard
⎡>	**In-1**	**115**		ug/L			5415	5559	1	KED
⎢	**Cd**	**111**	**51.396**	ug/L	1.370	2	1	10352	2	KED
⎣	**Cd**	**114**	**52.425**	ug/L	0.541	1	1	25650	0	KED
⎡>	**Tb**	**159**		ug/L			457409	485110	3	Standard
⎣	**Pb**	**208**	**52.470**	ug/L	0.920	1	92	2114500	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBM
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:39:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30305	1	Standard
	Cl	**37**		ug/L			3318464	3488814	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	399208	3	Standard
|	**Cr**	**52**	**0.043**	ug/L	0.033	77	15747	16054	1	Standard
|	**Cr**	**53**	**0.055**	ug/L	0.020	35	81	181	24	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.002	82	555	585	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	20942	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.006	223	13	12	45	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.018	7708	8	8	32	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	38	28	53	16	KED
|	**Cu**	**65**	**0.012**	ug/L	0.006	48	17	35	24	KED
|	**Zn**	**66**	**0.086**	ug/L	0.017	19	33	67	9	KED
|	**Zn**	**67**	**0.205**	ug/L	0.103	50	3	17	40	KED
⌊	**As**	**75**	**0.008**	ug/L	0.002	28	5	6	3	KED
	Y	**89**		ug/L			199932	198604	2	Standard
	Kr	**83**		ug/L			55	46	9	Standard
⌈>	**In-1**	**115**		ug/L			5415	5528	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	216	1	1	114	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	415	1	2	92	KED
⌈>	**Tb**	**159**		ug/L			457409	453333	6	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	9	92	241	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:44:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	41751	2	Standard
	Cl	**37**		ug/L			3318464	3685451	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	494551	1	Standard
|	**Cr**	**52**	**0.037**	ug/L	0.016	43	15747	19786	0	Standard
|	**Cr**	**53**	**0.047**	ug/L	0.002	3	81	205	3	Standard
⌊	**Mn**	**55**	**0.035**	ug/L	0.003	7	555	1667	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	22437	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.005	2250	13	15	33	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.007	24	8	5	21	KED
|	**Cu**	**63**	**0.009**	ug/L	0.006	69	28	59	29	KED
|	**Cu**	**65**	**0.010**	ug/L	0.004	36	17	34	17	KED
|	**Zn**	**66**	**0.103**	ug/L	0.064	62	33	79	30	KED
|	**Zn**	**67**	**0.114**	ug/L	0.061	53	3	12	32	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.007	99	5	4	34	KED
	Y	**89**		ug/L			199932	231674	2	Standard
	Kr	**83**		ug/L			55	62	16	Standard
⌈>	**In-1**	**115**		ug/L			5415	6516	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.004	167	1	2	33	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	99	1	1	107	KED
⌈>	**Tb**	**159**		ug/L			457409	519465	4	Standard
⌊	**Pb**	**208**	**0.015**	ug/L	0.001	6	92	762	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:48:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40339	1	Standard
	Cl	**37**		ug/L			3318464	3620868	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	480278	1	Standard
⎢	**Cr**	**52**	**0.046**	ug/L	0.036	78	15747	19388	3	Standard
⎢	**Cr**	**53**	**0.036**	ug/L	0.008	22	81	176	9	Standard
⎣	**Mn**	**55**	**0.039**	ug/L	0.002	4	555	1738	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	22088	0	KED
⎢	**Ni**	**60**	**0.003**	ug/L	0.013	471	13	17	69	KED
⎢	**Ni**	**62**	**-0.011**	ug/L	0.011	103	8	7	25	KED
⎢	**Cu**	**63**	**0.008**	ug/L	0.004	57	28	54	22	KED
⎢	**Cu**	**65**	**0.012**	ug/L	0.006	54	17	36	26	KED
⎢	**Zn**	**66**	**0.086**	ug/L	0.018	20	33	71	10	KED
⎢	**Zn**	**67**	**0.097**	ug/L	0.032	32	3	10	20	KED
⎣	**As**	**75**	**-0.013**	ug/L	0.005	37	5	3	31	KED
	Y	**89**		ug/L			199932	229084	2	Standard
	Kr	**83**		ug/L			55	60	23	Standard
⎡>	**In-1**	**115**		ug/L			5415	6421	3	KED
⎢	**Cd**	**111**	**-0.001**	ug/L	0.009	643	1	1	100	KED
⎣	**Cd**	**114**	**0.004**	ug/L	0.004	100	1	4	48	KED
⎡>	**Tb**	**159**		ug/L			457409	507860	1	Standard
⎣	**Pb**	**208**	**0.014**	ug/L	0.001	5	92	683	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:52:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40713	1	Standard
	Cl	**37**		ug/L			3318464	3552995	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	493899	3	Standard
|	**Cr**	**52**	**0.050**	ug/L	0.032	64	15747	20010	0	Standard
|	**Cr**	**53**	**0.027**	ug/L	0.003	12	81	159	8	Standard
⌊	**Mn**	**55**	**0.037**	ug/L	0.001	1	555	1731	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	22242	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.009	694	13	16	53	KED
|	**Ni**	**62**	**-0.038**	ug/L	0.014	35	8	3	69	KED
|	**Cu**	**63**	**0.009**	ug/L	0.001	7	28	60	1	KED
|	**Cu**	**65**	**0.002**	ug/L	0.004	227	17	22	26	KED
|	**Zn**	**66**	**0.050**	ug/L	0.029	57	33	58	20	KED
|	**Zn**	**67**	**0.096**	ug/L	0.061	63	3	10	36	KED
⌊	**As**	**75**	**-0.009**	ug/L	0.001	14	5	4	6	KED
	Y	**89**		ug/L			199932	231256	2	Standard
	Kr	**83**		ug/L			55	48	34	Standard
⌈>	**In-1**	**115**		ug/L			5415	6375	2	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	81	1	1	34	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	351	1	1	114	KED
⌈>	**Tb**	**159**		ug/L			457409	521797	4	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.002	11	92	690	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:57:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32105	0	Standard
	Cl	**37**		ug/L			3318464	3332714	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	417881	0	Standard
⎢	**Cr**	**52**	**-0.060**	ug/L	0.008	13	15747	15111	1	Standard
⎢	**Cr**	**53**	**0.026**	ug/L	0.001	5	81	134	2	Standard
⎣	**Mn**	**55**	**-0.011**	ug/L	0.001	5	555	296	4	Standard
⎡>	**Ge**	**72**		ug/L			19427	21293	0	KED
⎢	**Ni**	**60**	**-0.004**	ug/L	0.001	30	13	10	10	KED
⎢	**Ni**	**62**	**-0.038**	ug/L	0.007	18	8	3	34	KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.002	202	28	27	23	KED
⎢	**Cu**	**65**	**-0.003**	ug/L	0.004	135	17	14	37	KED
⎢	**Zn**	**66**	**-0.020**	ug/L	0.019	94	33	29	24	KED
⎢	**Zn**	**67**	**0.063**	ug/L	0.016	25	3	8	13	KED
⎣	**As**	**75**	**-0.009**	ug/L	0.006	69	5	3	33	KED
	Y	**89**		ug/L			199932	196948	2	Standard
	Kr	**83**		ug/L			55	52	33	Standard
⎡>	**In-1**	**115**		ug/L			5415	5849	3	KED
⎢	**Cd**	**111**	**0.004**	ug/L	0.008	205	1	2	57	KED
⎣	**Cd**	**114**	**0.006**	ug/L	0.004	69	1	4	43	KED
⎡>	**Tb**	**159**		ug/L			457409	459690	3	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	30	92	71	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 10:01:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30783	1	Standard
	Cl	**37**		ug/L			3318464	3362908	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	390990	3	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.041	1789	15747	15021	0	Standard
⎢	**Cr**	**53**	**0.034**	ug/L	0.005	15	81	140	6	Standard
⎣	**Mn**	**55**	**-0.011**	ug/L	0.001	7	555	287	5	Standard
⎡>	**Ge**	**72**		ug/L			19427	21419	1	KED
⎢	**Ni**	**60**	**-0.003**	ug/L	0.004	104	13	11	28	KED
⎢	**Ni**	**62**	**-0.030**	ug/L	0.025	85	8	4	89	KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.001	164	28	29	13	KED
⎢	**Cu**	**65**	**-0.005**	ug/L	0.001	17	17	12	9	KED
⎢	**Zn**	**66**	**-0.012**	ug/L	0.001	7	33	32	0	KED
⎢	**Zn**	**67**	**0.033**	ug/L	0.046	136	3	6	45	KED
⎣	**As**	**75**	**-0.008**	ug/L	0.007	86	5	3	34	KED
	Y	**89**		ug/L			199932	190097	1	Standard
	Kr	**83**		ug/L			55	41	14	Standard
⎡>	**In-1**	**115**		ug/L			5415	5938	3	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.004	114	1	2	33	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.002	139	1	1	93	KED
⎡>	**Tb**	**159**		ug/L			457409	443814	6	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	17	92	50	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 10:05:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30788	2	Standard
	Cl	**37**		ug/L			3318464	3338058	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	390633	1	Standard
|	**Cr**	**52**	**-0.027**	ug/L	0.014	52	15747	14630	0	Standard
|	**Cr**	**53**	**0.027**	ug/L	0.007	26	81	127	10	Standard
⌊	**Mn**	**55**	**-0.011**	ug/L	0.001	9	555	274	8	Standard
⌈>	**Ge**	**72**		ug/L			19427	20550	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.005	84	13	8	58	KED
|	**Ni**	**62**	**-0.028**	ug/L	0.029	103	8	4	98	KED
|	**Cu**	**63**	**0.000**	ug/L	0.002	627	28	31	18	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.003	41	17	9	40	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.010	46	33	27	10	KED
|	**Zn**	**67**	**0.007**	ug/L	0.018	268	3	4	24	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.005	79	5	4	22	KED
	Y	**89**		ug/L			199932	187294	5	Standard
	Kr	**83**		ug/L			55	36	14	Standard
⌈>	**In-1**	**115**		ug/L			5415	5409	3	KED
|	**Cd**	**111**	**0.006**	ug/L	0.003	40	1	3	17	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.004	103	1	3	52	KED
⌈>	**Tb**	**159**		ug/L			457409	440470	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	12	92	58	9	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00033
Instrument: ICPMS2
Calibration Date: 01/12/2023 15:38

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Silver-107	0	0	0.2	15135	10	14452.9	20	14502.5	50	13715.22	100	13752.17
Chromium-52	0	0	0.5	50530	10	20654.6	20	19443.2	50	18647.74	100	18700.08
Lead-208	0	0	0.1	51010	10	46912.8	20	45687.75	50	45083.2	100	45076.33

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00033	Instrument:	ICPMS2
Calibration Date:	01/12/2023 15:38		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Silver-107	11926.3	49.2	0.9999		0.998	
Chromium-52	21329.27	76.3	1.0000		0.998	
Lead-208	38961.68	49.3	1.0000		0.998	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MS **Sequence:** SLAΦ147 **Cal:** GAΦΦΦ33

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	LΦ439		
		-CAL2	LΦ149		
		-CAL3	LΦ15Φ		
		-CAL4	LΦ151		
		-CAL5	LΦ44Φ		
		-CAL6	LΦ152		
		-IBL1	—		
		-ICV1	LΦ243		
		-ICB1	LΦ439		
		-CCV1	LΦ44Φ		
		-CCB1	LΦ439		
	✓	-CRL1	—		std made noisy - Multiple ↑
		-CRL1	LΦ149		
		-IFA1	LΦ394		Cr^{53} ↑
		-IFB1	LΦ395		
		-HCV1	LΦ232		
		-HCV2	LΦ233		Zn↓ - Zn<200
		-IBL2	—		
		-CCV2			
		-CCB2			
		BLAΦ278-BLK1	REN		
		-BS1			
		23AΦ19Φ-Φ1		2	
		23AΦ192-Φ1		5	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ192-Φ2	REN	5	
		22LΦ435-Φ1	↓		Be only
		BLAΦΦ15-DUP3	↓		↓
		↓ -MS3	↓		
		↓ -MSD3	↓		
		SEQ-IBL3			
	✓	-CCV3			Ge sl. noisy
		-CCV3			
		-CCB3			
		23AΦ192-Φ3	REN		Zn↑ Zn NR
		↓ -Φ4	↓		
		23AΦ191-Φ1	↓		
		BLAΦ278-DUP1	↓		
		↓ -MS1	↓		
		↓ -MSD1	↓		
		23AΦ126-Φ1	↓	2	
		↓ -Φ2	↓	↓	
		↓ -Φ3	↓	↓	
		23AΦ192-Φ3RE1	↓	5	Zn only
		SEQ-CCV4			
		-CCB4			
	✓	-CAL1			Ba, Be, Ni, Se Removed
		-CCV5			
		↓ -CCB5			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ6Φ8-BLK2	SWN	20	Ag only
		↓ -BS2	↓	↓	↓
		BLAΦ224-BLK1			Pb > ½RL
		↓ -BS1			
		22KΦ328-17RE1			Cu, Zn ↑ / Pb > 10x BLK cont. Cu, Zn NR
		BLAΦ224-DUP1			/ Cr Pb RPD↑
		-MS1			/ ~~Pb %R↓~~ Pb STL /
		↓ -MSD1		↓	↓ / ~~Pb %R↑~~ ↓ ↓
		22LΦ383-Φ2	↓	50	Ag, Cr only
		SEQ-IBL4			
		↓ -CCV6			
		↓ -CCB6			Ge noisy-%R + Analytes OK
		22KΦ328-17RE2	SWN	100	Cu, Zn only
		BLAΦ224-DUP2			Cu, Zn RPD↑
		-MS2			Cu STL / Zn %R↑
		↓ -MSD2		↓	↓ ↓ ↓
		22LΦ329-Φ7		50	In sl. noisy-%R + Analytes OK Ag, Cr only
		BKLΦ6Φ8-DUP2			
		-MS2			Ag %R↓
		-MSD2			↓
		↓ -PS2	↓	↓	60.uL K7409 ↓
		SEQ-IBL5			
		↓ -CCV7			
		↓ -CCB7			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	22LΦ383-Φ3	SWN	2050	Ag, Cr only
		-Φ4		50	
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		22LΦ417-Φ1			
		-Φ2			
		-Φ3			
		SEQ-IBL6			
		-CCV8			Sc, In, Tb noisy
		-CCB8			
		BLAΦ516-BLK1	SWN	20	
		-BS1			
	✓	22LΦ417-Φ4		50	Ag, Cr only
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		-Φ9			
	OK ~~X~~	23AΦ1Φ9-Φ1			Zn only
		SEQ-IBL7			
		-CCV9			
		-CCB9			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ617-Φ1	REN	2	Cr only
		22LΦ459-Φ1	SWN	20	
		-Φ2	↓	↓	
		-Φ3	↓	↓	
		-Φ4	↓	↓	
		-Φ5	↓	↓	
		-Φ6	↓	↓	
		-Φ7	↓	↓	
		23AΦ114-Φ1	↓	↓	
		SEQ-IBL8			
		-CCVA			
		-CCBA			
	✓	-CAL1			
		-CCVB			
		-CCBB			
		22LΦ589-Φ1	REN	5	Zn only
		22LΦ599-Φ1	↓	↓	Cu only
		22LΦ598-Φ1	↓	↓	Cr only
		BLAΦ234-DUP2	↓	↓	↓
		-MS2	↓	↓	↓
		23AΦΦ11-Φ1	SWN	20	
		BLAΦ156-DUP1	↓	↓	
		-MS1	↓	↓	
		-MSD1	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBL9			
		-CCVC			Ag sl. noisy - Value OK
		-CCBC			Sc, In sl. noisy - %R of Analytes OK
		22LΦ649-Φ1	REN		Ge↓ Pb only
	✓	22LΦ65Φ-Φ1			Sc, Ge, In^{-1}, In, Tb↓/Zn↑ (Salty!)
	✓	22LΦ651-Φ1			↓ ↓
		22LΦ653-Φ1			
		22LΦ655-Φ1		5	
		22LΦ656-Φ1			
		22LΦ66Φ-Φ3			
		↓ -Φ5	↓	2	
		23AΦΦ11-Φ2	SWN	20	
		SEQ-IBLA			(Cr^{53}↑)
		-CCVD			Cu↑/Ge sl. noisy As sl. noisy
		-CCBD			Ge↓/Cr^{53}↑
	✓	23AΦΦ11-Φ3	SWN	20	↓
		-Φ4			
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		-Φ9			
		-1Φ			
		-11			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBLB			(Cr^{53} ↑ / Sc, Tb sl. noisy)
		-CCVE			Cu^{63} ↑
		-CCBE			Ge↓ / Cr^{53} ↑
	✓	23AΦΦ11-12	SWN	20	
		-13			Ge↓
		-14			Ge sl. noisy
		-15			
		-16			
		-17			
		-18			
		-19			
		-2Φ			
		SEQ-IBLC			
		-CCVF			Cu^{63} ↑ / Ge sl. noisy / Zn^{67} sl. noisy
		-CCBF			Ge↓
		Rinse/DI			
			MB	1/12/23	

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, January 12, 2023 13:29:15
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4937
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	10029.7	10029.654	152.363	1.5	Standard
	In	114.9	67914.8	67914.794	571.230	0.8	Standard
	U	238.1	56679.5	56679.485	209.441	0.4	Standard
⌈	CeO	155.9	1090.6	0.017	0.001	3.8	Standard
| >	Ce	139.9	64240.5	64240.521	447.105	0.7	Standard
⌊	Ce++	70.0	1636.3	0.025	0.001	2.6	Standard
	Bkgd	220.0	0.1	0.067	0.091	136.9	Standard

Current Conditions File Data

Current Value	Description
1.04	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1637.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.04	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:29:07 PM
End Time: 1/12/2023 1:39:52 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 10029.65
Obtained Intensity (In 115): 67914.79
Obtained Intensity (U 238): 56679.49
Obtained Intensity (Bkgd 220): 0.07
Obtained Formula (Ce++ 70 / Ce 140): 0.025 (=1636.29 / 64240.52)
Obtained Formula (CeO 156 / Ce 140): 0.017 (=1090.58 / 64240.52)
Obtained RSD (Be 9): 0.0152
Obtained RSD (In 115): 0.0084
Obtained RSD (U 238): 0.0037

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.13 mm	-0.48 mm	68683.71

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.04
Obtained Intensity (In 115): 66953.53
Obtained Formula (CeO 156 / Ce 140): 0.0214 (=1325.06 / 62034.40)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.711)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.718)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.971; Intercept = -12.04

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.999; Intercept = -12.96

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:29:07 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 10029.65
		Obtained Intensity (In 115): 67914.79
		Obtained Intensity (U 238): 56679.49
		Obtained Intensity (Bkgd 220): 0.07
		Obtained Formula (Ce++ 70 / Ce 140): 0.025 (=1636.29 / 64240.52)
		Obtained Formula (CeO 156 / Ce 140): 0.017 (=1090.58 / 64240.52)
		Obtained RSD (Be 9): 0.0152
		Obtained RSD (In 115): 0.0084
		Obtained RSD (U 238): 0.0037

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.13 mm	-0.48 mm	68683.71

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 1/1.1/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 66953.53
		Obtained Formula (CeO 156 / Ce 140): 0.0214 (=1325.06 / 62034.40)
[Passed] Optimum value(s): 1.04

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.711)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.718)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.971; Intercept = -12.04

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-12.5	44541.3
Mg	24	41	-12.5	43269.4
In	115	41	-10.5	70079.5
Ce	140	41	-8	67262
Pb	208	41	-7	32885.8
U	238	41	-7	59620.2

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.999; Intercept = -12.96

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	32104
Mg	24	41	-13	25891.4
In	115	41	-9.5	45091
Ce	140	41	-8.5	50798.2
Pb	208	41	-6.5	25486.7
U	238	41	-7	40798.2

End Time: 1/12/2023 1:39:52 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:39:58 PM
End Time: 1/12/2023 1:41:04 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.990; Intercept = -12.64

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:39:58 PM

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.990; Intercept = -12.64

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	45103.1
Mg	24	41	-13	41540.3
In	115	41	-10	68130.1
Ce	140	41	-8	64272.3
Pb	208	41	-7	34810.4
U	238	41	-7	60403.4

End Time: 1/12/2023 1:41:04 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, January 12, 2023 13:41:30
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4944
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	10265.9	10265.889	220.644	2.1	Standard
	In	114.9	70299.7	70299.659	1278.193	1.8	Standard
	U	238.1	59821.7	59821.731	506.916	0.8	Standard
⌈	CeO	155.9	1201.4	0.018	0.000	1.6	Standard
| >	Ce	139.9	66719.9	66719.871	1041.898	1.6	Standard
⌊	Ce++	70.0	1704.8	0.026	0.001	3.1	Standard
	Bkgd	220.0	0.0	0.000	0.000		Standard

Current Conditions File Data

Current Value	Description
1.04	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1637.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.04	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:41:29 PM
End Time: 1/12/2023 1:43:34 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 10265.89
Obtained Intensity (In 115): 70299.66
Obtained Intensity (U 238): 59821.73
Obtained Intensity (Bkgd 220): 0.00
Obtained Formula (Ce++ 70 / Ce 140): 0.026 (=1704.77 / 66719.87)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1201.38 / 66719.87)
Obtained RSD (Be 9): 0.0215
Obtained RSD (In 115): 0.0182
Obtained RSD (U 238): 0.0085

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:41:29 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 1
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 10265.89
Obtained Intensity (In 115): 70299.66
Obtained Intensity (U 238): 59821.73
Obtained Intensity (Bkgd 220): 0.00
Obtained Formula (Ce++ 70 / Ce 140): 0.026 (=1704.77 / 66719.87)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1201.38 / 66719.87)
Obtained RSD (Be 9): 0.0215
Obtained RSD (In 115): 0.0182
Obtained RSD (U 238): 0.0085

[Passed] Optimum value(s): N/A

End Time: 1/12/2023 1:43:34 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:38:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L				766222	1	Standard
⌊	**Be**	**9**		ug/L				7	86	Standard
	C	**13**		ug/L				36839	2	Standard
	Cl	**37**		ug/L				4390964	0	Standard
⌈>	**Sc**	**45**		ug/L				538647	2	Standard
⌈	**Cr**	**52**		ug/L				15443	1	Standard
⌊	**Cr**	**53**		ug/L				178	9	Standard
⌈>	**Ge**	**72**		ug/L				26915	2	KED
⌈	**Ni**	**60**		ug/L				40	32	KED
⌈	**Ni**	**62**		ug/L				6	31	KED
⌈	**Cu**	**63**		ug/L				46	45	KED
⌈	**Cu**	**65**		ug/L				30	32	KED
⌈	**Zn**	**66**		ug/L				35	25	KED
⌈	**Zn**	**67**		ug/L				6	41	KED
⌈	**As**	**75**		ug/L				7	6	KED
⌊	**Se**	**78**		ug/L				14	13	KED
	Y	**89**		ug/L				287925	2	Standard
	Kr	**83**		ug/L				53	18	Standard
⌈>	**In-1**	**115**		ug/L				7687	1	KED
⌈	**Cd**	**111**		ug/L				4	13	KED
⌊	**Cd**	**114**		ug/L				7	53	KED
⌈>	**In**	**115**		ug/L				427037	1	Standard
⌈	**Ag**	**107**		ug/L				100	9	Standard
⌈	**Ba**	**135**		ug/L				78	14	Standard
⌊	**Ba**	**137**		ug/L				142	3	Standard
⌈>	**Tb**	**159**		ug/L				675781	1	Standard
⌊	**Pb**	**208**		ug/L				179	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:43:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	749267	1	Standard
⌊	**Be**	**9**	**0.200**	ug/L	0.011	5	7	1612	6	Standard
	C	**13**		ug/L			36839	43986	2	Standard
	Cl	**37**		ug/L			4390964	4242289	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	530824	2	Standard
⌈	**Cr**	**52**	**0.500**	ug/L	0.005	0	15443	25265	3	Standard
⌊	**Cr**	**53**	**0.500**	ug/L	0.015	2	178	1291	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	27192	0	KED
⌈	**Ni**	**60**	**0.500**	ug/L	0.011	2	40	610	2	KED
⌈	**Ni**	**62**	**0.500**	ug/L	0.048	9	6	102	9	KED
⌈	**Cu**	**63**	**0.500**	ug/L	0.035	6	46	1698	6	KED
⌈	**Cu**	**65**	**0.500**	ug/L	0.029	5	30	777	5	KED
⌈	**Zn**	**66**	**6.000**	ug/L	0.212	3	35	2756	3	KED
⌈	**Zn**	**67**	**6.000**	ug/L	0.177	2	6	375	2	KED
⌈	**As**	**75**	**0.200**	ug/L	0.043	21	7	49	18	KED
⌊	**Se**	**78**	**0.500**	ug/L	0.285	56	14	26	25	KED
	Y	**89**		ug/L			287925	280451	3	Standard
	Kr	**83**		ug/L			53	62	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7828	1	KED
⌈	**Cd**	**111**	**0.100**	ug/L	0.011	10	4	26	7	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.018	17	7	53	16	KED
⌈>	**In**	**115**		ug/L			427037	408494	3	Standard
⌈	**Ag**	**107**	**0.200**	ug/L	0.005	2	100	3027	1	Standard
⌈	**Ba**	**135**	**0.500**	ug/L	0.020	3	78	1998	3	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.013	2	142	3333	5	Standard
⌈>	**Tb**	**159**		ug/L			675781	674031	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.003	2	179	5101	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:47:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	726427	3	Standard
⌊	**Be**	**9**	**10.000**	ug/L	0.253	2	7	76651	5	Standard
	C	**13**		ug/L			36839	51352	1	Standard
	Cl	**37**		ug/L			4390964	4190483	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	532341	4	Standard
⌈	**Cr**	**52**	**9.999**	ug/L	0.187	1	15443	206546	3	Standard
⌊	**Cr**	**53**	**10.000**	ug/L	0.218	2	178	22267	5	Standard
⌈>	**Ge**	**72**		ug/L			26915	28378	0	KED
⌈	**Ni**	**60**	**9.998**	ug/L	0.097	0	40	11085	0	KED
⌊	**Ni**	**62**	**9.998**	ug/L	0.084	0	6	1840	1	KED
⌈	**Cu**	**63**	**9.999**	ug/L	0.309	3	46	32912	3	KED
⌊	**Cu**	**65**	**10.001**	ug/L	0.168	1	30	16195	2	KED
⌈	**Zn**	**66**	**9.900**	ug/L	0.160	1	35	4595	2	KED
⌊	**Zn**	**67**	**10.332**	ug/L	0.567	5	6	736	6	KED
⌈	**As**	**75**	**10.000**	ug/L	0.255	2	7	2168	1	KED
⌊	**Se**	**78**	**10.000**	ug/L	0.425	4	14	259	4	KED
	Y	**89**		ug/L			287925	276328	4	Standard
	Kr	**83**		ug/L			53	50	29	Standard
⌈>	**In-1**	**115**		ug/L			7687	8004	1	KED
⌈	**Cd**	**111**	**10.000**	ug/L	0.474	4	4	2540	3	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.555	5	7	6059	4	KED
⌈>	**In**	**115**		ug/L			427037	416644	4	Standard
⌈	**Ag**	**107**	**10.000**	ug/L	0.400	4	100	144529	3	Standard
⌈	**Ba**	**135**	**9.999**	ug/L	0.286	2	78	37533	2	Standard
⌊	**Ba**	**137**	**10.000**	ug/L	0.174	1	142	65461	3	Standard
⌈>	**Tb**	**159**		ug/L			675781	673759	2	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.088	0	179	469128	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:52:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	731224	2	Standard
⌊	**Be**	**9**	**19.828**	ug/L	0.413	2	7	147874	4	Standard
	C	**13**		ug/L			36839	50965	1	Standard
	Cl	**37**		ug/L			4390964	4351704	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	532438	4	Standard
⌈	**Cr**	**52**	**19.904**	ug/L	0.578	2	15443	388864	2	Standard
⌊	**Cr**	**53**	**19.938**	ug/L	0.316	1	178	43675	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	27720	2	KED
⌈	**Ni**	**60**	**19.997**	ug/L	0.505	2	40	21599	1	KED
⌊	**Ni**	**62**	**19.909**	ug/L	0.247	1	6	3509	1	KED
⌈	**Cu**	**63**	**20.014**	ug/L	0.556	2	46	64461	1	KED
⌊	**Cu**	**65**	**20.022**	ug/L	0.111	0	30	31775	2	KED
⌈	**Zn**	**66**	**19.955**	ug/L	1.073	5	35	8944	3	KED
⌊	**Zn**	**67**	**20.129**	ug/L	1.214	6	6	1420	4	KED
⌈	**As**	**75**	**20.009**	ug/L	0.388	1	7	4238	0	KED
⌊	**Se**	**78**	**19.846**	ug/L	1.116	5	14	473	5	KED
	Y	**89**		ug/L			287925	278139	2	Standard
	Kr	**83**		ug/L			53	61	6	Standard
⌈>	**In-1**	**115**		ug/L			7687	7809	2	KED
⌈	**Cd**	**111**	**20.065**	ug/L	0.750	3	4	5034	1	KED
⌊	**Cd**	**114**	**20.075**	ug/L	0.723	3	7	12040	1	KED
⌈>	**In**	**115**		ug/L			427037	417883	3	Standard
⌈	**Ag**	**107**	**20.000**	ug/L	0.234	1	100	290050	3	Standard
⌈	**Ba**	**135**	**19.967**	ug/L	0.193	0	78	74637	2	Standard
⌊	**Ba**	**137**	**20.008**	ug/L	0.261	1	142	131442	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	675064	3	Standard
⌊	**Pb**	**208**	**19.889**	ug/L	0.555	2	179	913755	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:58:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	729892	0	Standard
⌊	**Be**	**9**	**49.807**	ug/L	1.480	2	7	363595	2	Standard
	C	**13**		ug/L			36839	36503	3	Standard
	Cl	**37**		ug/L			4390964	4508448	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	518676	0	Standard
⌈	**Cr**	**52**	**50.024**	ug/L	0.139	0	15443	932387	0	Standard
⌊	**Cr**	**53**	**50.171**	ug/L	0.545	1	178	108701	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26921	0	KED
⌈	**Ni**	**60**	**50.007**	ug/L	1.069	2	40	52448	2	KED
⌈	**Ni**	**62**	**49.996**	ug/L	1.299	2	6	8545	2	KED
⌈	**Cu**	**63**	**49.727**	ug/L	0.842	1	46	151403	1	KED
⌈	**Cu**	**65**	**49.896**	ug/L	1.306	2	30	76068	2	KED
⌈	**Zn**	**66**	**49.471**	ug/L	0.458	0	35	20489	1	KED
⌈	**Zn**	**67**	**50.214**	ug/L	1.966	3	6	3502	3	KED
⌈	**As**	**75**	**49.986**	ug/L	0.365	0	7	10261	0	KED
⌊	**Se**	**78**	**49.769**	ug/L	1.081	2	14	1107	1	KED
	Y	**89**		ug/L			287925	278053	2	Standard
	Kr	**83**		ug/L			53	71	13	Standard
⌈>	**In-1**	**115**		ug/L			7687	7760	1	KED
⌈	**Cd**	**111**	**49.820**	ug/L	0.448	0	4	12202	1	KED
⌊	**Cd**	**114**	**50.128**	ug/L	0.558	1	7	30266	0	KED
⌈>	**In**	**115**		ug/L			427037	411040	2	Standard
⌈	**Ag**	**107**	**49.673**	ug/L	1.849	3	100	685761	2	Standard
⌈	**Ba**	**135**	**49.992**	ug/L	0.277	0	78	183585	1	Standard
⌊	**Ba**	**137**	**49.997**	ug/L	1.127	2	142	322732	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	668197	0	Standard
⌊	**Pb**	**208**	**49.923**	ug/L	0.474	0	179	2254160	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:04:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	713212	5	Standard
⌊	**Be**	**9**	**100.604**	ug/L	4.435	4	7	731261	2	Standard
	C	**13**		ug/L			36839	48732	0	Standard
	Cl	**37**		ug/L			4390964	4602583	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	515531	4	Standard
⌈	**Cr**	**52**	**100.414**	ug/L	1.880	1	15443	1870008	2	Standard
⌊	**Cr**	**53**	**100.284**	ug/L	1.948	1	178	217722	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	26421	5	KED
⌈	**Ni**	**60**	**100.292**	ug/L	0.781	0	40	104183	4	KED
⌊	**Ni**	**62**	**99.672**	ug/L	1.206	1	6	16539	6	KED
⌈	**Cu**	**63**	**100.022**	ug/L	0.630	0	46	299031	4	KED
⌊	**Cu**	**65**	**99.987**	ug/L	1.502	1	30	149502	4	KED
⌈	**Zn**	**66**	**99.769**	ug/L	0.432	0	35	40215	5	KED
⌊	**Zn**	**67**	**99.939**	ug/L	0.753	0	6	6821	5	KED
⌈	**As**	**75**	**100.343**	ug/L	0.670	0	7	20441	4	KED
⌊	**Se**	**78**	**100.816**	ug/L	2.914	2	14	2247	4	KED
	Y	**89**		ug/L			287925	275194	5	Standard
	Kr	**83**		ug/L			53	104	4	Standard
⌈>	**In-1**	**115**		ug/L			7687	7735	1	KED
⌈	**Cd**	**111**	**99.727**	ug/L	2.090	2	4	24127	3	KED
⌊	**Cd**	**114**	**99.307**	ug/L	1.276	1	7	58421	2	KED
⌈>	**In**	**115**		ug/L			427037	407347	3	Standard
⌈	**Ag**	**107**	**100.118**	ug/L	1.666	1	100	1375217	2	Standard
⌈	**Ba**	**135**	**100.456**	ug/L	1.112	1	78	371077	2	Standard
⌊	**Ba**	**137**	**100.613**	ug/L	1.898	1	142	656815	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	671322	4	Standard
⌊	**Pb**	**208**	**99.871**	ug/L	2.608	2	179	4507633	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:12:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	736268	0	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	63	7	20	41	Standard
	C	**13**		ug/L			36839	35959	2	Standard
	Cl	**37**		ug/L			4390964	4365430	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	533734	1	Standard
⌈	**Cr**	**52**	**0.003**	ug/L	0.027	835	15443	15359	1	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.008	92	178	158	11	Standard
⌈>	**Ge**	**72**		ug/L			26915	26679	2	KED
⌈	**Ni**	**60**	**0.003**	ug/L	0.012	383	40	43	31	KED
⌈	**Ni**	**62**	**0.023**	ug/L	0.016	70	6	10	26	KED
⌈	**Cu**	**63**	**-0.007**	ug/L	0.001	16	46	26	14	KED
⌈	**Cu**	**65**	**-0.011**	ug/L	0.001	5	30	13	7	KED
⌈	**Zn**	**66**	**-0.029**	ug/L	0.003	9	35	23	4	KED
⌈	**Zn**	**67**	**-0.072**	ug/L	0.029	39	6	1	100	KED
⌈	**As**	**75**	**0.006**	ug/L	0.001	15	7	8	3	KED
⌊	**Se**	**78**	**0.009**	ug/L	0.100	1163	14	14	16	KED
	Y	**89**		ug/L			287925	279770	0	Standard
	Kr	**83**		ug/L			53	62	26	Standard
⌈>	**In-1**	**115**		ug/L			7687	7380	1	KED
⌈	**Cd**	**111**	**0.005**	ug/L	0.003	54	4	5	10	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.007	106	7	3	100	KED
⌈>	**In**	**115**		ug/L			427037	428595	0	Standard
⌈	**Ag**	**107**	**0.006**	ug/L	0.001	19	100	191	8	Standard
⌈	**Ba**	**135**	**-0.014**	ug/L	0.001	8	78	22	19	Standard
⌊	**Ba**	**137**	**-0.015**	ug/L	0.001	9	142	39	24	Standard
⌈>	**Tb**	**159**		ug/L			675781	676243	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	202	179	183	3	Standard

Sample Information

Sample Date/Time: Thursday, January 12, 2023 16:04:52
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	**0.9999**	0.010	0.20	10	20	50	100
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.036	0.50	10	20	50	100
Cr	53	**1.0000**	0.004	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.039	0.50	10	20	50	100
Ni	62	**1.0000**	0.006	0.50	10	20	50	100
Cu	63	**1.0000**	0.113	0.50	10	20	50	100
Cu	65	**1.0000**	0.057	0.50	10	20	50	100
Zn	66	**0.9999**	0.015	6.00	10	20	50	100
Zn	67	**1.0000**	0.003	6.00	10	20	50	100
As	75	**1.0000**	0.008	0.20	10	20	50	100
Se	78	**0.9999**	0.001	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.031	0.10	10	20	50	100
Cd	114	**0.9999**	0.076	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.034	0.20	10	20	50	100
Ba	135	**1.0000**	0.009	0.50	10	20	50	100
Ba	137	**0.9999**	0.016	0.50	10	20	50	100
Tb	159							
Pb	208	**1.0000**	0.067	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:22:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	723248	2	Standard
⌊	**Be**	**9**	**48.744**	ug/L	1.978	4	7	359631	2	Standard
	C	**13**		ug/L			36839	45004	1	Standard
	Cl	**37**		ug/L			4390964	4607556	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	540750	0	Standard
⌈	**Cr**	**52**	**48.230**	ug/L	0.312	0	15443	950640	0	Standard
⌊	**Cr**	**53**	**47.767**	ug/L	0.486	1	178	108928	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	27213	1	KED
⌈	**Ni**	**60**	**50.194**	ug/L	0.501	0	40	53741	2	KED
⌈	**Ni**	**62**	**51.001**	ug/L	0.978	1	6	8717	3	KED
⌈	**Cu**	**63**	**51.067**	ug/L	1.952	3	46	157351	5	KED
⌈	**Cu**	**65**	**49.922**	ug/L	0.218	0	30	76904	1	KED
⌈	**Zn**	**66**	**49.356**	ug/L	1.404	2	35	20511	4	KED
⌈	**Zn**	**67**	**49.227**	ug/L	1.067	2	6	3464	3	KED
⌈	**As**	**75**	**46.819**	ug/L	1.219	2	7	9830	3	KED
⌊	**Se**	**78**	**75.627**	ug/L	1.604	2	14	1741	3	KED
	Y	**89**		ug/L			287925	286645	1	Standard
	Kr	**83**		ug/L			53	67	20	Standard
⌈>	**In-1**	**115**		ug/L			7687	7769	3	KED
⌈	**Cd**	**111**	**48.479**	ug/L	1.614	3	4	11772	0	KED
⌊	**Cd**	**114**	**49.075**	ug/L	1.551	3	7	28980	1	KED
⌈>	**In**	**115**		ug/L			427037	414887	2	Standard
⌈	**Ag**	**107**	**51.614**	ug/L	1.838	3	100	722029	1	Standard
⌈	**Ba**	**135**	**49.986**	ug/L	0.973	1	78	188105	1	Standard
⌊	**Ba**	**137**	**49.370**	ug/L	0.827	1	142	328400	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	683207	1	Standard
⌊	**Pb**	**208**	**49.679**	ug/L	0.774	1	179	2283329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:29:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	737243	4	Standard
⎣	**Be**	**9**	**0.001**	ug/L	0.001	131	7	13	57	Standard
	C	**13**		ug/L			36839	36247	4	Standard
	Cl	**37**		ug/L			4390964	4218819	3	Standard
⎡>	**Sc**	**45**		ug/L			538647	530596	3	Standard
⎢	**Cr**	**52**	**-0.015**	ug/L	0.019	123	15443	14922	4	Standard
⎣	**Cr**	**53**	**-0.011**	ug/L	0.007	59	178	150	8	Standard
⎡>	**Ge**	**72**		ug/L			26915	27228	1	KED
⎢	**Ni**	**60**	**-0.005**	ug/L	0.004	85	40	36	10	KED
⎢	**Ni**	**62**	**0.022**	ug/L	0.027	126	6	10	44	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.003	78	46	36	20	KED
⎢	**Cu**	**65**	**-0.010**	ug/L	0.006	57	30	15	57	KED
⎢	**Zn**	**66**	**-0.041**	ug/L	0.012	28	35	19	26	KED
⎢	**Zn**	**67**	**-0.064**	ug/L	0.016	25	6	2	43	KED
⎢	**As**	**75**	**-0.003**	ug/L	0.011	411	7	6	37	KED
⎣	**Se**	**78**	**0.195**	ug/L	0.148	75	14	19	19	KED
	Y	**89**		ug/L			287925	279472	4	Standard
	Kr	**83**		ug/L			53	49	19	Standard
⎡>	**In-1**	**115**		ug/L			7687	7526	4	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.008	141	4	5	36	KED
⎣	**Cd**	**114**	**-0.007**	ug/L	0.002	29	7	3	39	KED
⎡>	**In**	**115**		ug/L			427037	421908	2	Standard
⎢	**Ag**	**107**	**0.002**	ug/L	0.002	96	100	129	22	Standard
⎢	**Ba**	**135**	**-0.016**	ug/L	0.001	3	78	17	12	Standard
⎣	**Ba**	**137**	**-0.017**	ug/L	0.000	2	142	23	12	Standard
⎡>	**Tb**	**159**		ug/L			675781	677616	3	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.000	21	179	109	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:34:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	742923	5	Standard
⎣	**Be**	**9**	**50.327**	ug/L	2.569	5	7	381003	2	Standard
	C	**13**		ug/L			36839	37063	0	Standard
	Cl	**37**		ug/L			4390964	4719746	0	Standard
⎡>	**Sc**	**45**		ug/L			538647	537726	2	Standard
⎢	**Cr**	**52**	**49.689**	ug/L	0.696	1	15443	973468	2	Standard
⎣	**Cr**	**53**	**48.975**	ug/L	0.844	1	178	111082	3	Standard
⎡>	**Ge**	**72**		ug/L			26915	26820	0	KED
⎢	**Ni**	**60**	**49.906**	ug/L	1.030	2	40	52657	2	KED
⎢	**Ni**	**62**	**51.599**	ug/L	1.017	1	6	8691	2	KED
⎢	**Cu**	**63**	**50.685**	ug/L	0.550	1	46	153862	1	KED
⎢	**Cu**	**65**	**50.870**	ug/L	0.461	0	30	77231	0	KED
⎢	**Zn**	**66**	**51.051**	ug/L	0.549	1	35	20904	0	KED
⎢	**Zn**	**67**	**50.195**	ug/L	1.088	2	6	3481	2	KED
⎢	**As**	**75**	**50.369**	ug/L	0.256	0	7	10420	0	KED
⎣	**Se**	**78**	**50.272**	ug/L	1.706	3	14	1145	3	KED
	Y	**89**		ug/L			287925	283205	5	Standard
	Kr	**83**		ug/L			53	56	7	Standard
⎡>	**In-1**	**115**		ug/L			7687	7646	0	KED
⎢	**Cd**	**111**	**49.825**	ug/L	0.237	0	4	11915	0	KED
⎣	**Cd**	**114**	**50.089**	ug/L	1.191	2	7	29123	1	KED
⎡>	**In**	**115**		ug/L			427037	422832	2	Standard
⎢	**Ag**	**107**	**49.918**	ug/L	0.752	1	100	712071	3	Standard
⎢	**Ba**	**135**	**49.645**	ug/L	0.980	1	78	190412	1	Standard
⎣	**Ba**	**137**	**48.553**	ug/L	0.649	1	142	329209	1	Standard
⎡>	**Tb**	**159**		ug/L			675781	690687	2	Standard
⎣	**Pb**	**208**	**49.577**	ug/L	1.142	2	179	2303180	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:41:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	722010	3	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	194	7	10	57	Standard
	C	**13**		ug/L			36839	36002	1	Standard
	Cl	**37**		ug/L			4390964	4269003	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	522125	2	Standard
⌈	**Cr**	**52**	**0.014**	ug/L	0.018	129	15443	15234	3	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.004	89	178	163	8	Standard
⌈>	**Ge**	**72**		ug/L			26915	26696	3	KED
⌈	**Ni**	**60**	**-0.004**	ug/L	0.018	501	40	36	46	KED
⌊	**Ni**	**62**	**0.008**	ug/L	0.017	211	6	8	35	KED
⌈	**Cu**	**63**	**-0.006**	ug/L	0.003	44	46	28	24	KED
⌊	**Cu**	**65**	**-0.010**	ug/L	0.004	36	30	15	33	KED
⌈	**Zn**	**66**	**-0.038**	ug/L	0.006	15	35	19	14	KED
⌊	**Zn**	**67**	**-0.053**	ug/L	0.060	113	6	3	124	KED
⌈	**As**	**75**	**0.004**	ug/L	0.006	148	7	7	18	KED
⌊	**Se**	**78**	**0.083**	ug/L	0.056	67	14	16	11	KED
	Y	**89**		ug/L			287925	276339	1	Standard
	Kr	**83**		ug/L			53	58	16	Standard
⌈>	**In-1**	**115**		ug/L			7687	7913	0	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.004	68	4	2	33	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.004	84	7	4	44	KED
⌈>	**In**	**115**		ug/L			427037	427221	1	Standard
⌈	**Ag**	**107**	**0.004**	ug/L	0.001	30	100	151	11	Standard
⌈	**Ba**	**135**	**-0.016**	ug/L	0.001	6	78	17	22	Standard
⌊	**Ba**	**137**	**-0.017**	ug/L	0.001	4	142	28	17	Standard
⌈>	**Tb**	**159**		ug/L			675781	680907	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	4	179	109	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:52:12

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	656771	2	Standard
[	**Be**	**9**	**0.326**	ug/L	0.168	51	7	2183	50	Standard
	C	**13**		ug/L			36839	38142	3	Standard
	Cl	**37**		ug/L			4390964	4104418	0	Standard
[>	**Sc**	**45**		ug/L			538647	466133	2	Standard
[	**Cr**	**52**	**0.608**	ug/L	0.139	22	15443	23564	12	Standard
[	**Cr**	**53**	**0.571**	ug/L	0.133	23	178	1280	23	Standard
[>	**Ge**	**72**		ug/L			26915	27287	1	KED
[	**Ni**	**60**	**0.450**	ug/L	0.014	3	40	523	1	KED
[	**Ni**	**62**	**0.482**	ug/L	0.093	19	6	89	16	KED
[	**Cu**	**63**	**0.489**	ug/L	0.025	5	46	1558	4	KED
[	**Cu**	**65**	**0.498**	ug/L	0.046	9	30	800	8	KED
[	**Zn**	**66**	**6.214**	ug/L	0.168	2	35	2619	1	KED
[	**Zn**	**67**	**5.322**	ug/L	0.495	9	6	381	7	KED
[	**As**	**75**	**0.175**	ug/L	0.020	11	7	43	9	KED
[	**Se**	**78**	**0.611**	ug/L	0.189	30	14	28	14	KED
	Y	**89**		ug/L			287925	253370	5	Standard
	Kr	**83**		ug/L			53	55	17	Standard
[>	**In-1**	**115**		ug/L			7687	7742	3	KED
[	**Cd**	**111**	**0.088**	ug/L	0.030	33	4	25	24	KED
[	**Cd**	**114**	**0.102**	ug/L	0.013	12	7	67	13	KED
[>	**In**	**115**		ug/L			427037	383929	5	Standard
[	**Ag**	**107**	**0.317**	ug/L	0.190	59	100	4279	64	Standard
[	**Ba**	**135**	**0.579**	ug/L	0.162	27	78	2104	32	Standard
[	**Ba**	**137**	**0.581**	ug/L	0.175	30	142	3744	35	Standard
[>	**Tb**	**159**		ug/L			675781	620663	1	Standard
[	**Pb**	**208**	**0.213**	ug/L	0.194	90	179	9168	91	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:57:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	748071	2	Standard
⌊	**Be**	**9**	**0.211**	ug/L	0.013	6	7	1615	3	Standard
	C	**13**		ug/L			36839	40355	2	Standard
	Cl	**37**		ug/L			4390964	4193727	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	530437	0	Standard
⌈	**Cr**	**52**	**0.485**	ug/L	0.011	2	15443	24429	1	Standard
⌊	**Cr**	**53**	**0.477**	ug/L	0.017	3	178	1241	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	28066	0	KED
⌈	**Ni**	**60**	**0.469**	ug/L	0.025	5	40	559	4	KED
⌈	**Ni**	**62**	**0.514**	ug/L	0.060	11	6	97	10	KED
⌈	**Cu**	**63**	**0.504**	ug/L	0.030	5	46	1650	5	KED
⌈	**Cu**	**65**	**0.485**	ug/L	0.022	4	30	802	5	KED
⌈	**Zn**	**66**	**6.073**	ug/L	0.091	1	35	2635	1	KED
⌈	**Zn**	**67**	**5.280**	ug/L	0.630	11	6	389	12	KED
⌈	**As**	**75**	**0.197**	ug/L	0.027	13	7	50	10	KED
⌊	**Se**	**78**	**0.453**	ug/L	0.097	21	14	25	8	KED
	Y	**89**		ug/L			287925	278460	0	Standard
	Kr	**83**		ug/L			53	61	19	Standard
⌈>	**In-1**	**115**		ug/L			7687	8362	3	KED
⌈	**Cd**	**111**	**0.102**	ug/L	0.005	5	4	31	3	KED
⌊	**Cd**	**114**	**0.057**	ug/L	0.036	62	7	44	53	KED
⌈>	**In**	**115**		ug/L			427037	424954	0	Standard
⌈	**Ag**	**107**	**0.198**	ug/L	0.007	3	100	2940	3	Standard
⌈	**Ba**	**135**	**0.466**	ug/L	0.020	4	78	1872	4	Standard
⌊	**Ba**	**137**	**0.474**	ug/L	0.009	1	142	3369	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	677576	0	Standard
⌊	**Pb**	**208**	**0.101**	ug/L	0.004	4	179	4788	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:03:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	718001	4	Standard
[	**Be**	**9**	**0.007**	ug/L	0.001	7	7	60	8	Standard
	C	**13**		ug/L			36839	152416	2	Standard
	Cl	**37**		ug/L			4390964	11106228	0	Standard
[>	**Sc**	**45**		ug/L			538647	521469	2	Standard
[	**Cr**	**52**	**0.855**	ug/L	0.065	7	15443	30933	4	Standard
[	**Cr**	**53**	**5.173**	ug/L	0.093	1	178	11529	2	Standard
[>	**Ge**	**72**		ug/L			26915	25636	0	KED
[	**Ni**	**60**	**0.080**	ug/L	0.021	25	40	119	17	KED
[	**Ni**	**62**	**0.172**	ug/L	0.037	21	6	34	16	KED
[	**Cu**	**63**	**0.030**	ug/L	0.003	9	46	132	5	KED
[	**Cu**	**65**	**0.021**	ug/L	0.005	22	30	59	11	KED
[	**Zn**	**66**	**0.164**	ug/L	0.054	32	35	97	20	KED
[	**Zn**	**67**	**0.274**	ug/L	0.133	48	6	24	35	KED
[	**As**	**75**	**0.042**	ug/L	0.016	37	7	15	20	KED
[	**Se**	**78**	**0.001**	ug/L	0.165	13622	14	13	26	KED
	Y	**89**		ug/L			287925	271550	4	Standard
	Kr	**83**		ug/L			53	155	11	Standard
[>	**In-1**	**115**		ug/L			7687	7385	0	KED
[	**Cd**	**111**	**0.072**	ug/L	0.017	23	4	20	18	KED
[	**Cd**	**114**	**0.051**	ug/L	0.010	18	7	35	14	KED
[>	**In**	**115**		ug/L			427037	402111	1	Standard
[	**Ag**	**107**	**0.002**	ug/L	0.000	17	100	128	4	Standard
[	**Ba**	**135**	**0.107**	ug/L	0.007	6	78	464	4	Standard
[	**Ba**	**137**	**0.097**	ug/L	0.006	5	142	760	5	Standard
[>	**Tb**	**159**		ug/L			675781	666208	0	Standard
[	**Pb**	**208**	**0.039**	ug/L	0.002	4	179	1920	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:08:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	754940	4	Standard
⌊	**Be**	**9**	**0.009**	ug/L	0.002	25	7	74	20	Standard
	C	**13**		ug/L			36839	155346	3	Standard
	Cl	**37**		ug/L			4390964	11279472	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	546424	1	Standard
⌈	**Cr**	**52**	**20.114**	ug/L	0.159	0	15443	409774	2	Standard
⌊	**Cr**	**53**	**23.800**	ug/L	0.457	1	178	54939	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	25178	0	KED
⌈	**Ni**	**60**	**19.801**	ug/L	0.696	3	40	19633	3	KED
⌈	**Ni**	**62**	**20.389**	ug/L	0.581	2	6	3227	2	KED
⌈	**Cu**	**63**	**20.045**	ug/L	0.196	0	46	57147	0	KED
⌈	**Cu**	**65**	**19.809**	ug/L	0.285	1	30	28248	0	KED
⌈	**Zn**	**66**	**18.638**	ug/L	0.539	2	35	7185	2	KED
⌈	**Zn**	**67**	**16.366**	ug/L	0.703	4	6	1069	4	KED
⌈	**As**	**75**	**19.371**	ug/L	0.266	1	7	3766	0	KED
⌊	**Se**	**78**	**0.174**	ug/L	0.213	122	14	17	26	KED
	Y	**89**		ug/L			287925	283023	1	Standard
	Kr	**83**		ug/L			53	151	6	Standard
⌈>	**In-1**	**115**		ug/L			7687	7179	1	KED
⌈	**Cd**	**111**	**19.129**	ug/L	0.542	2	4	4296	2	KED
⌊	**Cd**	**114**	**19.523**	ug/L	0.409	2	7	10661	0	KED
⌈>	**In**	**115**		ug/L			427037	416515	2	Standard
⌈	**Ag**	**107**	**17.960**	ug/L	0.364	2	100	252344	0	Standard
⌈	**Ba**	**135**	**0.163**	ug/L	0.016	9	78	692	7	Standard
⌊	**Ba**	**137**	**0.156**	ug/L	0.004	2	142	1181	3	Standard
⌈>	**Tb**	**159**		ug/L			675781	680350	0	Standard
⌊	**Pb**	**208**	**0.030**	ug/L	0.001	3	179	1565	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:12:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	736104	3	Standard
⌊	**Be**	**9**	**192.473**	ug/L	12.052	6	7	1444090	3	Standard
	C	**13**		ug/L			36839	45357	2	Standard
	Cl	**37**		ug/L			4390964	4758617	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	533601	2	Standard
⌈	**Cr**	**52**	**186.142**	ug/L	2.925	1	15443	3575992	1	Standard
⌊	**Cr**	**53**	**190.179**	ug/L	4.221	2	178	427444	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	25750	2	KED
⌈	**Ni**	**60**	**195.673**	ug/L	4.904	2	40	198121	4	KED
⌊	**Ni**	**62**	**198.567**	ug/L	6.951	3	6	32073	1	KED
⌈	**Cu**	**63**	**194.450**	ug/L	2.158	1	46	566486	1	KED
⌊	**Cu**	**65**	**192.066**	ug/L	5.620	2	30	279761	1	KED
⌈	**Zn**	**66**	**191.901**	ug/L	1.364	0	35	75350	2	KED
⌊	**Zn**	**67**	**184.222**	ug/L	4.506	2	6	12242	0	KED
⌈	**As**	**75**	**194.717**	ug/L	4.923	2	7	38643	1	KED
⌊	**Se**	**78**	**192.348**	ug/L	5.594	2	14	4165	0	KED
	Y	**89**		ug/L			287925	279563	1	Standard
	Kr	**83**		ug/L			53	152	2	Standard
⌈>	**In-1**	**115**		ug/L			7687	7432	2	KED
⌈	**Cd**	**111**	**190.949**	ug/L	3.911	2	4	44366	0	KED
⌊	**Cd**	**114**	**191.473**	ug/L	3.725	1	7	108186	0	KED
⌈>	**In**	**115**		ug/L			427037	399005	0	Standard
⌈	**Ag**	**107**	**187.804**	ug/L	7.054	3	100	2527569	3	Standard
⌈	**Ba**	**135**	**198.567**	ug/L	2.621	1	78	718620	1	Standard
⌊	**Ba**	**137**	**196.219**	ug/L	4.618	2	142	1255189	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	668490	1	Standard
⌊	**Pb**	**208**	**191.380**	ug/L	2.134	1	179	8607461	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:17:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			766222	652161	2	Standard
	Be	**9**	**280.443**	ug/L	10.612	3	7	1865952	1	Standard
	C	**13**		ug/L			36839	42926	4	Standard
	Cl	**37**		ug/L			4390964	4485595	1	Standard
>	**Sc**	**45**		ug/L			538647	483774	0	Standard
	Cr	**52**	**271.705**	ug/L	1.900	0	15443	4726941	0	Standard
	Cr	**53**	**281.441**	ug/L	4.455	1	178	573401	1	Standard
>	**Ge**	**72**		ug/L			26915	24482	1	KED
	Ni	**60**	**279.435**	ug/L	2.275	0	40	268943	0	KED
	Ni	**62**	**282.643**	ug/L	6.114	2	6	43418	0	KED
	Cu	**63**	**280.622**	ug/L	2.606	0	46	777463	2	KED
	Cu	**65**	**280.193**	ug/L	5.619	2	30	388162	2	KED
	Zn	**66**	**266.331**	ug/L	4.999	1	35	99398	0	KED
	Zn	**67**	**265.169**	ug/L	3.422	1	6	16759	1	KED
	As	**75**	**282.877**	ug/L	3.980	1	7	53394	2	KED
	Se	**78**	**274.011**	ug/L	2.250	0	14	5639	0	KED
	Y	**89**		ug/L			287925	251302	1	Standard
	Kr	**83**		ug/L			53	184	15	Standard
>	**In-1**	**115**		ug/L			7687	7051	2	KED
	Cd	**111**	**277.136**	ug/L	1.593	0	4	61096	1	KED
	Cd	**114**	**278.310**	ug/L	0.980	0	7	149213	2	KED
>	**In**	**115**		ug/L			427037	366036	1	Standard
	Ag	**107**	**277.920**	ug/L	8.281	2	100	3430580	1	Standard
	Ba	**135**	**297.845**	ug/L	10.648	3	78	988530	2	Standard
	Ba	**137**	**295.803**	ug/L	4.573	1	142	1735576	0	Standard
>	**Tb**	**159**		ug/L			675781	628981	0	Standard
	Pb	**208**	**278.405**	ug/L	4.639	1	179	11780280	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:24:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	747005	5	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	50	7	24	30	Standard
	C	**13**		ug/L			36839	38276	5	Standard
	Cl	**37**		ug/L			4390964	4316077	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	512347	1	Standard
⌈	**Cr**	**52**	**-0.002**	ug/L	0.024	1340	15443	14662	4	Standard
⌊	**Cr**	**53**	**0.048**	ug/L	0.004	8	178	273	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	27629	0	KED
⌈	**Ni**	**60**	**-0.009**	ug/L	0.002	22	40	31	6	KED
⌈	**Ni**	**62**	**-0.016**	ug/L	0.013	80	6	4	49	KED
⌈	**Cu**	**63**	**0.007**	ug/L	0.004	66	46	68	19	KED
⌈	**Cu**	**65**	**0.008**	ug/L	0.004	55	30	43	15	KED
⌈	**Zn**	**66**	**0.016**	ug/L	0.018	116	35	43	18	KED
⌈	**Zn**	**67**	**-0.029**	ug/L	0.040	137	6	5	57	KED
⌈	**As**	**75**	**0.012**	ug/L	0.010	79	7	10	21	KED
⌊	**Se**	**78**	**0.156**	ug/L	0.148	95	14	18	19	KED
	Y	**89**		ug/L			287925	269305	2	Standard
	Kr	**83**		ug/L			53	49	21	Standard
⌈>	**In-1**	**115**		ug/L			7687	7673	1	KED
⌈	**Cd**	**111**	**0.001**	ug/L	0.005	351	4	4	24	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.002	45	7	4	21	KED
⌈>	**In**	**115**		ug/L			427037	407833	3	Standard
⌈	**Ag**	**107**	**0.011**	ug/L	0.003	25	100	246	12	Standard
⌈	**Ba**	**135**	**-0.009**	ug/L	0.001	12	78	43	11	Standard
⌊	**Ba**	**137**	**-0.009**	ug/L	0.002	21	142	78	16	Standard
⌈>	**Tb**	**159**		ug/L			675781	659136	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	37	179	264	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:31:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	700762	4	Standard
⌊	**Be**	**9**	**50.701**	ug/L	1.876	3	7	362263	0	Standard
	C	**13**		ug/L			36839	36589	3	Standard
	Cl	**37**		ug/L			4390964	4502376	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	509474	2	Standard
⌈	**Cr**	**52**	**49.500**	ug/L	1.246	2	15443	918861	3	Standard
⌊	**Cr**	**53**	**48.560**	ug/L	0.840	1	178	104311	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	26935	3	KED
⌈	**Ni**	**60**	**48.822**	ug/L	0.450	0	40	51736	3	KED
⌈	**Ni**	**62**	**49.377**	ug/L	0.248	0	6	8352	2	KED
⌈	**Cu**	**63**	**49.488**	ug/L	0.643	1	46	150850	2	KED
⌈	**Cu**	**65**	**49.072**	ug/L	0.826	1	30	74799	1	KED
⌈	**Zn**	**66**	**49.918**	ug/L	0.531	1	35	20525	2	KED
⌈	**Zn**	**67**	**49.585**	ug/L	1.805	3	6	3456	6	KED
⌈	**As**	**75**	**49.253**	ug/L	0.678	1	7	10233	3	KED
⌊	**Se**	**78**	**50.539**	ug/L	1.047	2	14	1155	2	KED
	Y	**89**		ug/L			287925	269792	2	Standard
	Kr	**83**		ug/L			53	63	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7664	2	KED
⌈	**Cd**	**111**	**48.714**	ug/L	0.897	1	4	11675	0	KED
⌊	**Cd**	**114**	**49.761**	ug/L	1.328	2	7	28995	0	KED
⌈>	**In**	**115**		ug/L			427037	399414	1	Standard
⌈	**Ag**	**107**	**50.179**	ug/L	1.272	2	100	675919	1	Standard
⌈	**Ba**	**135**	**49.236**	ug/L	1.174	2	78	178368	0	Standard
⌊	**Ba**	**137**	**48.882**	ug/L	0.574	1	142	313060	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	653942	2	Standard
⌊	**Pb**	**208**	**50.390**	ug/L	1.272	2	179	2216288	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:39:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	741448	5	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	39	7	19	22	Standard
	C	**13**		ug/L			36839	37172	4	Standard
	Cl	**37**		ug/L			4390964	4322135	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	522985	1	Standard
⌈	**Cr**	**52**	**-0.017**	ug/L	0.010	61	15443	14675	2	Standard
⌊	**Cr**	**53**	**0.024**	ug/L	0.010	39	178	227	8	Standard
⌈>	**Ge**	**72**		ug/L			26915	25564	1	KED
⌈	**Ni**	**60**	**0.088**	ug/L	0.030	33	40	126	22	KED
⌊	**Ni**	**62**	**0.062**	ug/L	0.025	40	6	16	24	KED
⌈	**Cu**	**63**	**-0.007**	ug/L	0.003	42	46	25	31	KED
⌊	**Cu**	**65**	**-0.007**	ug/L	0.003	40	30	18	23	KED
⌈	**Zn**	**66**	**-0.054**	ug/L	0.012	22	35	12	37	KED
⌊	**Zn**	**67**	**-0.043**	ug/L	0.001	1	6	3	0	KED
⌈	**As**	**75**	**0.013**	ug/L	0.006	46	7	9	11	KED
⌊	**Se**	**78**	**0.079**	ug/L	0.053	67	14	15	6	KED
	Y	**89**		ug/L			287925	272704	2	Standard
	Kr	**83**		ug/L			53	57	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7549	1	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.006	97	4	2	57	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.000	0	7	1	4	KED
⌈>	**In**	**115**		ug/L			427037	419302	2	Standard
⌈	**Ag**	**107**	**0.003**	ug/L	0.001	43	100	140	10	Standard
⌈	**Ba**	**135**	**-0.016**	ug/L	0.003	17	78	15	68	Standard
⌊	**Ba**	**137**	**-0.016**	ug/L	0.001	5	142	31	18	Standard
⌈>	**Tb**	**159**		ug/L			675781	663059	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	20	179	140	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:44:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	698385	3	Standard
	Be	9	0.002	ug/L	0.001	43	7	20	31	Standard
	C	13		ug/L			36839	46187	3	Standard
	Cl	37		ug/L			4390964	4126614	1	Standard
>	Sc	45		ug/L			538647	507665	0	Standard
	Cr	52	0.071	ug/L	0.012	17	15443	15841	0	Standard
	Cr	53	0.069	ug/L	0.004	5	178	315	3	Standard
>	Ge	72		ug/L			26915	27613	1	KED
	Ni	60	0.049	ug/L	0.007	13	40	95	8	KED
	Ni	62	0.051	ug/L	0.047	93	6	15	49	KED
	Cu	63	0.016	ug/L	0.009	54	46	97	26	KED
	Cu	65	0.017	ug/L	0.002	13	30	57	5	KED
	Zn	66	0.355	ug/L	0.085	24	35	186	20	KED
	Zn	67	0.327	ug/L	0.026	7	6	30	6	KED
	As	75	0.007	ug/L	0.007	112	7	8	19	KED
	Se	78	0.102	ug/L	0.208	205	14	17	28	KED
	Y	89		ug/L			287925	264276	1	Standard
	Kr	83		ug/L			53	50	10	Standard
>	In-1	115		ug/L			7687	7826	1	KED
	Cd	111	-0.013	ug/L	0.004	29	4	0	100	KED
	Cd	114	-0.009	ug/L	0.002	21	7	2	49	KED
>	In	115		ug/L			427037	402739	0	Standard
	Ag	107	0.001	ug/L	0.000	24	100	111	4	Standard
	Ba	135	0.003	ug/L	0.001	46	78	85	6	Standard
	Ba	137	0.001	ug/L	0.005	415	142	142	21	Standard
>	Tb	159		ug/L			675781	640887	1	Standard
	Pb	208	0.010	ug/L	0.001	11	179	596	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:49:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			766222	756313	6	Standard
⌊	Be	9	24.839	ug/L	1.944	7	7	191133	1	Standard
	C	13		ug/L			36839	50372	2	Standard
	Cl	37		ug/L			4390964	4653719	3	Standard
⌈>	Sc	45		ug/L			538647	534856	2	Standard
⌈	Cr	52	25.209	ug/L	0.613	2	15443	498614	0	Standard
⌊	Cr	53	25.103	ug/L	0.517	2	178	56688	0	Standard
⌈>	Ge	72		ug/L			26915	26441	3	KED
⌈	Ni	60	25.543	ug/L	0.553	2	40	26578	2	KED
⌊	Ni	62	25.712	ug/L	0.870	3	6	4274	5	KED
⌈	Cu	63	25.658	ug/L	0.488	1	46	76775	1	KED
⌊	Cu	65	25.695	ug/L	0.949	3	30	38448	2	KED
⌈	Zn	66	83.015	ug/L	2.524	3	35	33467	0	KED
⌊	Zn	67	75.479	ug/L	1.681	2	6	5154	1	KED
⌈	As	75	25.364	ug/L	0.448	1	7	5174	1	KED
⌊	Se	78	79.972	ug/L	1.092	1	14	1787	2	KED
	Y	89		ug/L			287925	281313	3	Standard
	Kr	83		ug/L			53	69	6	Standard
⌈>	In-1	115		ug/L			7687	7690	1	KED
⌈	Cd	111	25.173	ug/L	0.544	2	4	6056	1	KED
⌊	Cd	114	25.601	ug/L	0.534	2	7	14975	1	KED
⌈>	In	115		ug/L			427037	417015	0	Standard
⌈	Ag	107	25.348	ug/L	0.395	1	100	356619	1	Standard
⌈	Ba	135	25.035	ug/L	0.284	1	78	94755	1	Standard
⌊	Ba	137	24.931	ug/L	0.409	1	142	166790	1	Standard
⌈>	Tb	159		ug/L			675781	680427	2	Standard
⌊	Pb	208	25.262	ug/L	0.634	2	179	1156205	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0190-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:55:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	711999	5	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	52	7	20	32	Standard
	C	**13**		ug/L			36839	45262	4	Standard
	Cl	**37**		ug/L			4390964	7656947	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	521033	4	Standard
⌈	**Cr**	**52**	**114.804**	ug/L	1.127	0	15443	2159254	3	Standard
⌊	**Cr**	**53**	**117.686**	ug/L	1.322	1	178	258324	4	Standard
⌈>	**Ge**	**72**		ug/L			26915	25518	0	KED
⌈	**Ni**	**60**	**2.234**	ug/L	0.069	3	40	2279	2	KED
⌊	**Ni**	**62**	**2.492**	ug/L	0.032	1	6	405	2	KED
⌈	**Cu**	**63**	**9.237**	ug/L	0.108	1	46	26715	0	KED
⌊	**Cu**	**65**	**9.073**	ug/L	0.240	2	30	13127	1	KED
⌈	**Zn**	**66**	**39.651**	ug/L	0.373	0	35	15455	0	KED
⌊	**Zn**	**67**	**35.497**	ug/L	0.696	1	6	2344	2	KED
⌈	**As**	**75**	**0.127**	ug/L	0.017	13	7	31	9	KED
⌊	**Se**	**78**	**0.097**	ug/L	0.090	92	14	15	11	KED
	Y	**89**		ug/L			287925	272874	4	Standard
	Kr	**83**		ug/L			53	81	25	Standard
⌈>	**In-1**	**115**		ug/L			7687	7486	3	KED
⌈	**Cd**	**111**	**0.109**	ug/L	0.005	4	4	29	5	KED
⌊	**Cd**	**114**	**0.103**	ug/L	0.003	3	7	65	4	KED
⌈>	**In**	**115**		ug/L			427037	392017	2	Standard
⌈	**Ag**	**107**	**0.016**	ug/L	0.007	44	100	302	27	Standard
⌈	**Ba**	**135**	**2.518**	ug/L	0.033	1	78	9023	1	Standard
⌊	**Ba**	**137**	**2.482**	ug/L	0.083	3	142	15719	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	661703	4	Standard
⌊	**Pb**	**208**	**0.245**	ug/L	0.010	4	179	11059	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:01:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			766222	717874	4	Standard
	Be	**9**	**0.002**	ug/L	0.001	35	7	19	20	Standard
	C	**13**		ug/L			36839	42818	1	Standard
	Cl	**37**		ug/L			4390964	8140731	1	Standard
>	**Sc**	**45**		ug/L			538647	511276	1	Standard
	Cr	**52**	**1.833**	ug/L	0.018	0	15443	48269	1	Standard
	Cr	**53**	**6.371**	ug/L	0.141	2	178	13881	0	Standard
>	**Ge**	**72**		ug/L			26915	26563	1	KED
	Ni	**60**	**1.292**	ug/L	0.035	2	40	1389	3	KED
	Ni	**62**	**1.349**	ug/L	0.133	9	6	231	9	KED
	Cu	**63**	**0.742**	ug/L	0.011	1	46	2277	0	KED
	Cu	**65**	**0.729**	ug/L	0.029	4	30	1126	3	KED
	Zn	**66**	**62.328**	ug/L	0.962	1	35	25269	1	KED
	Zn	**67**	**55.942**	ug/L	2.340	4	6	3840	3	KED
	As	**75**	**0.228**	ug/L	0.019	8	7	53	5	KED
	Se	**78**	**0.467**	ug/L	0.083	17	14	24	8	KED
	Y	**89**		ug/L			287925	265515	2	Standard
	Kr	**83**		ug/L			53	46	9	Standard
>	**In-1**	**115**		ug/L			7687	7487	3	KED
	Cd	**111**	**0.035**	ug/L	0.022	63	4	12	39	KED
	Cd	**114**	**0.026**	ug/L	0.010	38	7	21	24	KED
>	**In**	**115**		ug/L			427037	387575	1	Standard
	Ag	**107**	**-0.000**	ug/L	0.002	718	100	87	27	Standard
	Ba	**135**	**2.562**	ug/L	0.020	0	78	9076	0	Standard
	Ba	**137**	**2.605**	ug/L	0.082	3	142	16310	3	Standard
>	**Tb**	**159**		ug/L			675781	650380	1	Standard
	Pb	**208**	**0.231**	ug/L	0.004	1	179	10276	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:05:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			766222	730988	1	Standard
	Be	**9**	**0.002**	ug/L	0.001	47	7	19	29	Standard
	C	**13**		ug/L			36839	42041	1	Standard
	Cl	**37**		ug/L			4390964	5770322	2	Standard
>	**Sc**	**45**		ug/L			538647	523298	1	Standard
	Cr	**52**	**1.233**	ug/L	0.036	2	15443	38141	2	Standard
	Cr	**53**	**3.754**	ug/L	0.091	2	178	8445	3	Standard
>	**Ge**	**72**		ug/L			26915	26451	0	KED
	Ni	**60**	**0.953**	ug/L	0.074	7	40	1030	6	KED
	Ni	**62**	**1.010**	ug/L	0.146	14	6	174	14	KED
	Cu	**63**	**1.717**	ug/L	0.004	0	46	5185	1	KED
	Cu	**65**	**1.679**	ug/L	0.030	1	30	2543	0	KED
	Zn	**66**	**92.026**	ug/L	2.400	2	35	37139	3	KED
	Zn	**67**	**80.522**	ug/L	3.120	3	6	5503	3	KED
	As	**75**	**0.244**	ug/L	0.036	14	7	56	12	KED
	Se	**78**	**0.202**	ug/L	0.146	71	14	18	16	KED
	Y	**89**		ug/L			287925	276939	1	Standard
	Kr	**83**		ug/L			53	55	17	Standard
>	**In-1**	**115**		ug/L			7687	7259	1	KED
	Cd	**111**	**0.058**	ug/L	0.014	23	4	17	20	KED
	Cd	**114**	**0.031**	ug/L	0.007	21	7	23	16	KED
>	**In**	**115**		ug/L			427037	406438	1	Standard
	Ag	**107**	**0.002**	ug/L	0.001	46	100	121	8	Standard
	Ba	**135**	**1.861**	ug/L	0.064	3	78	6933	1	Standard
	Ba	**137**	**1.870**	ug/L	0.037	1	142	12317	0	Standard
>	**Tb**	**159**		ug/L			675781	676477	2	Standard
	Pb	**208**	**0.694**	ug/L	0.033	4	179	31735	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0435-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:12:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	706457	3	Standard
[	**Be**	**9**	**0.001**	ug/L	0.000	10	7	17	6	Standard
	C	**13**		ug/L			36839	57678	1	Standard
	Cl	**37**		ug/L			4390964	4380616	0	Standard
[>	**Sc**	**45**		ug/L			538647	628947	1	Standard
[	**Cr**	**52**	**0.655**	ug/L	0.024	3	15443	32806	1	Standard
[	**Cr**	**53**	**1.120**	ug/L	0.010	0	178	3174	2	Standard
[>	**Ge**	**72**		ug/L			26915	27674	7	KED
[	**Ni**	**60**	**0.554**	ug/L	0.043	7	40	642	5	KED
[	**Ni**	**62**	**0.535**	ug/L	0.167	31	6	99	27	KED
[	**Cu**	**63**	**0.255**	ug/L	0.033	13	46	840	5	KED
[	**Cu**	**65**	**0.268**	ug/L	0.028	10	30	448	2	KED
[	**Zn**	**66**	**0.262**	ug/L	0.026	9	35	147	11	KED
[	**Zn**	**67**	**0.798**	ug/L	0.217	27	6	63	17	KED
[	**As**	**75**	**1.038**	ug/L	0.093	9	7	227	2	KED
[	**Se**	**78**	**0.283**	ug/L	0.053	18	14	21	9	KED
	Y	**89**		ug/L			287925	267618	1	Standard
	Kr	**83**		ug/L			53	55	15	Standard
[>	**In-1**	**115**		ug/L			7687	7450	0	KED
[	**Cd**	**111**	**0.009**	ug/L	0.002	26	4	6	9	KED
[	**Cd**	**114**	**0.009**	ug/L	0.004	40	7	12	17	KED
[>	**In**	**115**		ug/L			427037	391168	2	Standard
[	**Ag**	**107**	**0.016**	ug/L	0.002	10	100	299	5	Standard
[	**Ba**	**135**	**4.602**	ug/L	0.020	0	78	16397	2	Standard
[	**Ba**	**137**	**4.528**	ug/L	0.099	2	142	28519	1	Standard
[>	**Tb**	**159**		ug/L			675781	639111	1	Standard
[	**Pb**	**208**	**0.018**	ug/L	0.001	5	179	945	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-DUP3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:17:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	710228	1	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	213	7	10	65	Standard
	C	**13**		ug/L			36839	58341	2	Standard
	Cl	**37**		ug/L			4390964	4432878	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	645303	1	Standard
⌈	**Cr**	**52**	**0.669**	ug/L	0.026	3	15443	33984	1	Standard
⌊	**Cr**	**53**	**1.136**	ug/L	0.026	2	178	3300	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26091	1	KED
⌈	**Ni**	**60**	**0.658**	ug/L	0.076	11	40	713	8	KED
⌈	**Ni**	**62**	**0.661**	ug/L	0.019	2	6	114	2	KED
⌈	**Cu**	**63**	**0.174**	ug/L	0.011	6	46	558	4	KED
⌈	**Cu**	**65**	**0.169**	ug/L	0.001	0	30	278	2	KED
⌈	**Zn**	**66**	**0.155**	ug/L	0.012	8	35	95	4	KED
⌈	**Zn**	**67**	**0.767**	ug/L	0.029	3	6	58	4	KED
⌈	**As**	**75**	**1.197**	ug/L	0.050	4	7	247	4	KED
⌊	**Se**	**78**	**0.173**	ug/L	0.076	43	14	17	10	KED
	Y	**89**		ug/L			287925	270448	3	Standard
	Kr	**83**		ug/L			53	50	18	Standard
⌈>	**In-1**	**115**		ug/L			7687	7204	2	KED
⌈	**Cd**	**111**	**-0.005**	ug/L	0.004	89	4	2	33	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.005	98	7	4	67	KED
⌈>	**In**	**115**		ug/L			427037	389102	2	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	172	100	80	19	Standard
⌈	**Ba**	**135**	**4.722**	ug/L	0.084	1	78	16728	1	Standard
⌊	**Ba**	**137**	**4.814**	ug/L	0.188	3	142	30134	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	647892	1	Standard
⌊	**Pb**	**208**	**0.015**	ug/L	0.001	7	179	808	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-MS3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:22:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	724025	4	Standard
	Be	9	24.450	ug/L	0.915	3	7	180504	0	Standard
	C	13		ug/L			36839	60891	3	Standard
	Cl	37		ug/L			4390964	4584220	3	Standard
>	Sc	45		ug/L			538647	665408	3	Standard
	Cr	52	20.498	ug/L	0.360	1	15443	507991	1	Standard
	Cr	53	20.820	ug/L	0.211	1	178	58550	3	Standard
>	Ge	72		ug/L			26915	25546	2	KED
	Ni	60	25.638	ug/L	0.744	2	40	25777	2	KED
	Ni	62	26.237	ug/L	1.180	4	6	4210	3	KED
	Cu	63	24.969	ug/L	0.529	2	46	72191	0	KED
	Cu	65	24.639	ug/L	0.706	2	30	35634	2	KED
	Zn	66	76.143	ug/L	2.049	2	35	29669	1	KED
	Zn	67	71.738	ug/L	4.010	5	6	4731	3	KED
	As	75	26.241	ug/L	0.970	3	7	5172	2	KED
	Se	78	75.372	ug/L	0.782	1	14	1628	1	KED
	Y	89		ug/L			287925	275379	2	Standard
	Kr	83		ug/L			53	80	8	Standard
>	In-1	115		ug/L			7687	6905	1	KED
	Cd	111	25.029	ug/L	0.276	1	4	5407	1	KED
	Cd	114	25.332	ug/L	0.848	3	7	13302	2	KED
>	In	115		ug/L			427037	397838	1	Standard
	Ag	107	23.808	ug/L	0.418	1	100	319621	3	Standard
	Ba	135	29.935	ug/L	0.518	1	78	108059	1	Standard
	Ba	137	30.215	ug/L	0.351	1	142	192831	2	Standard
>	Tb	159		ug/L			675781	658846	3	Standard
	Pb	208	25.017	ug/L	0.703	2	179	1108444	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-MSD3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:27:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	677222	4	Standard
[	**Be**	**9**	**24.529**	ug/L	1.184	4	7	169448	4	Standard
	C	**13**		ug/L			36839	55239	1	Standard
	Cl	**37**		ug/L			4390964	4386594	2	Standard
[>	**Sc**	**45**		ug/L			538647	615458	1	Standard
[	**Cr**	**52**	**20.328**	ug/L	0.299	1	15443	466215	0	Standard
[	**Cr**	**53**	**20.669**	ug/L	0.346	1	178	53761	1	Standard
[>	**Ge**	**72**		ug/L			26915	23951	0	KED
[	**Ni**	**60**	**25.491**	ug/L	0.353	1	40	24035	1	KED
[	**Ni**	**62**	**24.795**	ug/L	0.500	2	6	3732	1	KED
[	**Cu**	**63**	**24.124**	ug/L	0.092	0	46	65420	1	KED
[	**Cu**	**65**	**24.713**	ug/L	0.467	1	30	33519	1	KED
[	**Zn**	**66**	**74.839**	ug/L	0.603	0	35	27353	1	KED
[	**Zn**	**67**	**69.452**	ug/L	1.699	2	6	4298	1	KED
[	**As**	**75**	**25.678**	ug/L	0.514	2	7	4746	1	KED
[	**Se**	**78**	**72.989**	ug/L	3.409	4	14	1479	4	KED
	Y	**89**		ug/L			287925	250881	1	Standard
	Kr	**83**		ug/L			53	78	12	Standard
[>	**In-1**	**115**		ug/L			7687	6736	2	KED
[	**Cd**	**111**	**24.354**	ug/L	0.377	1	4	5131	1	KED
[	**Cd**	**114**	**24.377**	ug/L	0.729	2	7	12485	1	KED
[>	**In**	**115**		ug/L			427037	370625	0	Standard
[	**Ag**	**107**	**22.849**	ug/L	0.474	2	100	285700	1	Standard
[	**Ba**	**135**	**30.658**	ug/L	0.282	0	78	103113	0	Standard
[	**Ba**	**137**	**30.167**	ug/L	0.539	1	142	179340	1	Standard
[>	**Tb**	**159**		ug/L			675781	616557	1	Standard
[	**Pb**	**208**	**24.987**	ug/L	0.730	2	179	1036244	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:31:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	742626	0	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	518	7	6	31	Standard
	C	**13**		ug/L			36839	40869	2	Standard
	Cl	**37**		ug/L			4390964	4240211	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	527506	2	Standard
⌈	**Cr**	**52**	**-0.001**	ug/L	0.024	1862	15443	15091	1	Standard
⌊	**Cr**	**53**	**0.046**	ug/L	0.007	14	178	277	5	Standard
⌈>	**Ge**	**72**		ug/L			26915	27124	3	KED
⌈	**Ni**	**60**	**0.018**	ug/L	0.006	35	40	59	8	KED
⌈	**Ni**	**62**	**0.026**	ug/L	0.021	80	6	11	28	KED
⌈	**Cu**	**63**	**-0.001**	ug/L	0.001	92	46	45	7	KED
⌈	**Cu**	**65**	**-0.000**	ug/L	0.006	1355	30	29	26	KED
⌈	**Zn**	**66**	**0.001**	ug/L	0.019	1447	35	36	18	KED
⌈	**Zn**	**67**	**0.054**	ug/L	0.059	109	6	10	36	KED
⌈	**As**	**75**	**0.009**	ug/L	0.007	75	7	9	18	KED
⌊	**Se**	**78**	**0.051**	ug/L	0.200	392	14	15	29	KED
	Y	**89**		ug/L			287925	280009	2	Standard
	Kr	**83**		ug/L			53	66	26	Standard
⌈>	**In-1**	**115**		ug/L			7687	7908	2	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.004	69	4	2	33	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.005	112	7	4	58	KED
⌈>	**In**	**115**		ug/L			427037	418765	1	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.000	25	100	106	1	Standard
⌈	**Ba**	**135**	**-0.008**	ug/L	0.002	29	78	45	20	Standard
⌊	**Ba**	**137**	**-0.009**	ug/L	0.003	34	142	81	23	Standard
⌈>	**Tb**	**159**		ug/L			675781	662254	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	109	179	165	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 18:36:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	728565	1	Standard
⌊	**Be**	**9**	**50.252**	ug/L	2.139	4	7	373626	3	Standard
	C	**13**		ug/L			36839	38459	2	Standard
	Cl	**37**		ug/L			4390964	4527669	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	508033	2	Standard
⌈	**Cr**	**52**	**49.888**	ug/L	1.304	2	15443	923057	1	Standard
⌊	**Cr**	**53**	**49.329**	ug/L	1.277	2	178	105672	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	27580	6	KED
⌈	**Ni**	**60**	**47.092**	ug/L	3.898	8	40	50914	2	KED
⌈	**Ni**	**62**	**47.114**	ug/L	4.640	9	6	8126	3	KED
⌈	**Cu**	**63**	**47.405**	ug/L	3.398	7	46	147506	0	KED
⌈	**Cu**	**65**	**46.225**	ug/L	3.953	8	30	71909	3	KED
⌈	**Zn**	**66**	**47.968**	ug/L	4.242	8	35	20120	1	KED
⌈	**Zn**	**67**	**46.577**	ug/L	3.995	8	6	3312	5	KED
⌈	**As**	**75**	**47.199**	ug/L	3.794	8	7	10006	1	KED
⌊	**Se**	**78**	**47.409**	ug/L	4.675	9	14	1106	2	KED
	Y	**89**		ug/L			287925	268980	1	Standard
	Kr	**83**		ug/L			53	58	20	Standard
⌈>	**In-1**	**115**		ug/L			7687	7507	2	KED
⌈	**Cd**	**111**	**50.186**	ug/L	0.872	1	4	11786	3	KED
⌊	**Cd**	**114**	**50.793**	ug/L	1.152	2	7	29006	3	KED
⌈>	**In**	**115**		ug/L			427037	397823	1	Standard
⌈	**Ag**	**107**	**50.203**	ug/L	0.173	0	100	673712	1	Standard
⌈	**Ba**	**135**	**49.164**	ug/L	0.027	0	78	177449	1	Standard
⌊	**Ba**	**137**	**48.555**	ug/L	0.256	0	142	309758	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	652802	1	Standard
⌊	**Pb**	**208**	**49.739**	ug/L	0.370	0	179	2184826	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:44:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	736842	4	Standard
⎣	**Be**	**9**	**49.412**	ug/L	2.337	4	7	371385	4	Standard
	C	**13**		ug/L			36839	38351	3	Standard
	Cl	**37**		ug/L			4390964	4665353	1	Standard
⎡>	**Sc**	**45**		ug/L			538647	509755	2	Standard
⎢	**Cr**	**52**	**49.905**	ug/L	1.404	2	15443	926825	4	Standard
⎣	**Cr**	**53**	**49.796**	ug/L	0.695	1	178	107059	3	Standard
⎡>	**Ge**	**72**		ug/L			26915	27111	3	KED
⎢	**Ni**	**60**	**47.602**	ug/L	1.645	3	40	50730	0	KED
⎢	**Ni**	**62**	**47.989**	ug/L	1.963	4	6	8163	1	KED
⎢	**Cu**	**63**	**47.807**	ug/L	2.336	4	46	146588	3	KED
⎢	**Cu**	**65**	**47.183**	ug/L	1.487	3	30	72358	0	KED
⎢	**Zn**	**66**	**48.816**	ug/L	2.360	4	35	20184	1	KED
⎢	**Zn**	**67**	**48.579**	ug/L	3.288	6	6	3401	4	KED
⎢	**As**	**75**	**47.839**	ug/L	2.013	4	7	9995	1	KED
⎣	**Se**	**78**	**48.143**	ug/L	1.969	4	14	1108	2	KED
	Y	**89**		ug/L			287925	273441	3	Standard
	Kr	**83**		ug/L			53	70	12	Standard
⎡>	**In-1**	**115**		ug/L			7687	7552	2	KED
⎢	**Cd**	**111**	**50.028**	ug/L	0.959	1	4	11813	1	KED
⎣	**Cd**	**114**	**49.797**	ug/L	0.862	1	7	28598	2	KED
⎡>	**In**	**115**		ug/L			427037	399410	2	Standard
⎢	**Ag**	**107**	**50.754**	ug/L	1.338	2	100	684195	5	Standard
⎢	**Ba**	**135**	**48.909**	ug/L	0.212	0	78	177218	2	Standard
⎣	**Ba**	**137**	**49.294**	ug/L	0.446	0	142	315682	2	Standard
⎡>	**Tb**	**159**		ug/L			675781	657885	3	Standard
⎣	**Pb**	**208**	**49.804**	ug/L	1.175	2	179	2203545	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:51:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	735602	3	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.000	141	7	8	13	Standard
	C	**13**		ug/L			36839	37393	1	Standard
	Cl	**37**		ug/L			4390964	4308048	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	514699	2	Standard
⌈	**Cr**	**52**	**0.020**	ug/L	0.029	146	15443	15112	1	Standard
⌊	**Cr**	**53**	**0.024**	ug/L	0.008	35	178	221	8	Standard
⌈>	**Ge**	**72**		ug/L			26915	27806	4	KED
⌈	**Ni**	**60**	**0.041**	ug/L	0.014	34	40	86	14	KED
⌊	**Ni**	**62**	**0.027**	ug/L	0.033	119	6	12	48	KED
⌈	**Cu**	**63**	**-0.008**	ug/L	0.003	45	46	24	43	KED
⌊	**Cu**	**65**	**-0.010**	ug/L	0.001	14	30	16	17	KED
⌈	**Zn**	**66**	**-0.046**	ug/L	0.007	15	35	17	22	KED
⌊	**Zn**	**67**	**-0.019**	ug/L	0.073	387	6	5	88	KED
⌈	**As**	**75**	**0.008**	ug/L	0.005	64	7	9	13	KED
⌊	**Se**	**78**	**0.048**	ug/L	0.181	374	14	15	24	KED
	Y	**89**		ug/L			287925	272565	2	Standard
	Kr	**83**		ug/L			53	52	18	Standard
⌈>	**In-1**	**115**		ug/L			7687	7545	0	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.006	97	4	2	57	KED
⌊	**Cd**	**114**	**-0.012**	ug/L	0.002	14	7	0	190	KED
⌈>	**In**	**115**		ug/L			427037	409371	2	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.001	47	100	118	9	Standard
⌈	**Ba**	**135**	**-0.016**	ug/L	0.002	10	78	14	39	Standard
⌊	**Ba**	**137**	**-0.015**	ug/L	0.001	5	142	41	9	Standard
⌈>	**Tb**	**159**		ug/L			675781	648574	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	17	179	120	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:57:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	743289	1	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	62	7	19	40	Standard
	C	**13**		ug/L			36839	53109	1	Standard
	Cl	**37**		ug/L			4390964	10966788	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	536108	2	Standard
⌈	**Cr**	**52**	**4.617**	ug/L	0.165	3	15443	104069	0	Standard
⌊	**Cr**	**53**	**11.935**	ug/L	0.244	2	178	27116	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	25689	1	KED
⌈	**Ni**	**60**	**3.114**	ug/L	0.095	3	40	3183	2	KED
⌊	**Ni**	**62**	**3.410**	ug/L	0.166	4	6	556	4	KED
⌈	**Cu**	**63**	**3.220**	ug/L	0.085	2	46	9403	2	KED
⌊	**Cu**	**65**	**3.178**	ug/L	0.073	2	30	4647	1	KED
⌈	**Zn**	**66**	**297.201**	ug/L	3.485	1	35	116396	0	KED
⌊	**Zn**	**67**	**266.434**	ug/L	2.015	0	6	17670	1	KED
⌈	**As**	**75**	**0.770**	ug/L	0.054	7	7	159	6	KED
⌊	**Se**	**78**	**0.676**	ug/L	0.216	31	14	28	15	KED
	Y	**89**		ug/L			287925	274130	1	Standard
	Kr	**83**		ug/L			53	54	21	Standard
⌈>	**In-1**	**115**		ug/L			7687	7037	3	KED
⌈	**Cd**	**111**	**0.181**	ug/L	0.033	18	4	43	19	KED
⌊	**Cd**	**114**	**0.196**	ug/L	0.020	10	7	111	6	KED
⌈>	**In**	**115**		ug/L			427037	395664	1	Standard
⌈	**Ag**	**107**	**0.003**	ug/L	0.001	19	100	139	7	Standard
⌈	**Ba**	**135**	**10.427**	ug/L	0.148	1	78	37483	0	Standard
⌊	**Ba**	**137**	**10.515**	ug/L	0.164	1	142	66816	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	663937	0	Standard
⌊	**Pb**	**208**	**0.603**	ug/L	0.021	3	179	27104	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:02:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	756237	0	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.001	66	7	15	34	Standard
	C	**13**		ug/L			36839	52548	0	Standard
	Cl	**37**		ug/L			4390964	9592443	4	Standard
⌈>	**Sc**	**45**		ug/L			538647	531020	0	Standard
⌈	**Cr**	**52**	**3.052**	ug/L	0.114	3	15443	73332	3	Standard
⌊	**Cr**	**53**	**9.671**	ug/L	0.103	1	178	21797	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	26077	1	KED
⌈	**Ni**	**60**	**1.244**	ug/L	0.072	5	40	1315	6	KED
⌊	**Ni**	**62**	**1.368**	ug/L	0.139	10	6	230	9	KED
⌈	**Cu**	**63**	**2.226**	ug/L	0.060	2	46	6614	4	KED
⌊	**Cu**	**65**	**2.196**	ug/L	0.086	3	30	3269	3	KED
⌈	**Zn**	**66**	**61.347**	ug/L	0.686	1	35	24418	1	KED
⌊	**Zn**	**67**	**57.036**	ug/L	2.611	4	6	3845	5	KED
⌈	**As**	**75**	**0.363**	ug/L	0.019	5	7	80	6	KED
⌊	**Se**	**78**	**0.231**	ug/L	0.244	105	14	19	28	KED
	Y	**89**		ug/L			287925	271267	1	Standard
	Kr	**83**		ug/L			53	66	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7361	0	KED
⌈	**Cd**	**111**	**0.015**	ug/L	0.003	17	4	7	7	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.007	847	7	6	58	KED
⌈>	**In**	**115**		ug/L			427037	395943	0	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	180	100	84	18	Standard
⌈	**Ba**	**135**	**10.874**	ug/L	0.176	1	78	39115	1	Standard
⌊	**Ba**	**137**	**10.615**	ug/L	0.106	1	142	67503	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	662287	2	Standard
⌊	**Pb**	**208**	**0.312**	ug/L	0.010	3	179	14092	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0191-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:07:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	726244	4	Standard
	Be	9	0.000	ug/L	0.000	227	7	8	44	Standard
	C	13		ug/L			36839	50246	1	Standard
	Cl	37		ug/L			4390964	8156909	1	Standard
>	Sc	45		ug/L			538647	514478	1	Standard
	Cr	52	1.264	ug/L	0.038	2	15443	38057	1	Standard
	Cr	53	6.893	ug/L	0.206	2	178	15099	2	Standard
>	Ge	72		ug/L			26915	26365	4	KED
	Ni	60	0.892	ug/L	0.046	5	40	963	2	KED
	Ni	62	0.838	ug/L	0.093	11	6	145	10	KED
	Cu	63	0.312	ug/L	0.004	1	46	977	5	KED
	Cu	65	0.315	ug/L	0.016	5	30	498	1	KED
	Zn	66	8.826	ug/L	0.246	2	35	3579	2	KED
	Zn	67	9.563	ug/L	0.420	4	6	657	4	KED
	As	75	0.265	ug/L	0.019	7	7	60	7	KED
	Se	78	0.333	ug/L	0.180	53	14	21	15	KED
	Y	89		ug/L			287925	264846	1	Standard
	Kr	83		ug/L			53	50	17	Standard
>	In-1	115		ug/L			7687	7399	0	KED
	Cd	111	-0.002	ug/L	0.005	228	4	3	31	KED
	Cd	114	-0.004	ug/L	0.005	133	7	4	59	KED
>	In	115		ug/L			427037	381624	1	Standard
	Ag	107	-0.002	ug/L	0.001	55	100	67	19	Standard
	Ba	135	11.702	ug/L	0.226	1	78	40560	0	Standard
	Ba	137	11.512	ug/L	0.182	1	142	70545	1	Standard
>	Tb	159		ug/L			675781	642539	3	Standard
	Pb	208	0.061	ug/L	0.002	3	179	2803	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:14:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			766222	736408	3	Standard
⌊	Be	9	0.000	ug/L	0.001	789	7	8	93	Standard
	C	13		ug/L			36839	50347	0	Standard
	Cl	37		ug/L			4390964	8267196	1	Standard
⌈>	Sc	45		ug/L			538647	518876	0	Standard
⌈	Cr	52	1.246	ug/L	0.020	1	15443	38055	0	Standard
⌊	Cr	53	6.802	ug/L	0.124	1	178	15032	1	Standard
⌈>	Ge	72		ug/L			26915	24954	1	KED
⌈	Ni	60	0.870	ug/L	0.033	3	40	890	1	KED
⌊	Ni	62	0.871	ug/L	0.020	2	6	142	3	KED
⌈	Cu	63	0.315	ug/L	0.016	5	46	933	5	KED
⌊	Cu	65	0.312	ug/L	0.035	11	30	468	10	KED
⌈	Zn	66	9.225	ug/L	0.273	2	35	3540	1	KED
⌊	Zn	67	9.587	ug/L	0.529	5	6	623	3	KED
⌈	As	75	0.304	ug/L	0.016	5	7	65	6	KED
⌊	Se	78	0.315	ug/L	0.106	33	14	19	9	KED
	Y	89		ug/L			287925	265094	1	Standard
	Kr	83		ug/L			53	59	12	Standard
⌈>	In-1	115		ug/L			7687	7034	1	KED
⌈	Cd	111	0.007	ug/L	0.003	36	4	5	10	KED
⌊	Cd	114	0.003	ug/L	0.008	289	7	8	49	KED
⌈>	In	115		ug/L			427037	391374	1	Standard
⌈	Ag	107	-0.002	ug/L	0.002	78	100	66	29	Standard
⌈	Ba	135	11.016	ug/L	0.055	0	78	39169	1	Standard
⌊	Ba	137	10.952	ug/L	0.220	2	142	68825	0	Standard
⌈>	Tb	159		ug/L			675781	641278	0	Standard
⌊	Pb	208	0.064	ug/L	0.003	4	179	2909	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:19:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			766222	751827	4	Standard
⌊	Be	9	23.654	ug/L	0.867	3	7	181365	1	Standard
	C	13		ug/L			36839	53210	1	Standard
	Cl	37		ug/L			4390964	8403110	3	Standard
⌈>	Sc	45		ug/L			538647	532874	2	Standard
⌈	Cr	52	25.916	ug/L	0.336	1	15443	510384	1	Standard
⌊	Cr	53	28.549	ug/L	0.427	1	178	64213	1	Standard
⌈>	Ge	72		ug/L			26915	25773	1	KED
⌈	Ni	60	25.810	ug/L	0.508	1	40	26187	2	KED
⌊	Ni	62	26.931	ug/L	0.355	1	6	4361	1	KED
⌈	Cu	63	25.545	ug/L	0.198	0	46	74535	1	KED
⌊	Cu	65	25.150	ug/L	0.081	0	30	36709	2	KED
⌈	Zn	66	84.706	ug/L	1.272	1	35	33306	1	KED
⌊	Zn	67	78.523	ug/L	1.671	2	6	5228	0	KED
⌈	As	75	25.367	ug/L	0.346	1	7	5045	0	KED
⌊	Se	78	75.121	ug/L	2.309	3	14	1637	1	KED
	Y	89		ug/L			287925	279350	1	Standard
	Kr	83		ug/L			53	88	25	Standard
⌈>	In-1	115		ug/L			7687	7021	2	KED
⌈	Cd	111	24.919	ug/L	0.192	0	4	5475	2	KED
⌊	Cd	114	24.417	ug/L	0.132	0	7	13043	2	KED
⌈>	In	115		ug/L			427037	388670	0	Standard
⌈	Ag	107	24.614	ug/L	0.249	1	100	322795	1	Standard
⌈	Ba	135	37.012	ug/L	0.098	0	78	130535	1	Standard
⌊	Ba	137	37.464	ug/L	0.705	1	142	233568	2	Standard
⌈>	Tb	159		ug/L			675781	664809	2	Standard
⌊	Pb	208	24.608	ug/L	0.631	2	179	1100344	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:23:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	726911	4	Standard
	Be	9	24.199	ug/L	1.182	4	7	179387	3	Standard
	C	13		ug/L			36839	53507	1	Standard
	Cl	37		ug/L			4390964	8166185	2	Standard
>	Sc	45		ug/L			538647	527968	3	Standard
	Cr	52	25.897	ug/L	0.178	0	15443	505351	2	Standard
	Cr	53	28.119	ug/L	0.479	1	178	62671	3	Standard
>	Ge	72		ug/L			26915	25855	1	KED
	Ni	60	25.915	ug/L	0.714	2	40	26372	1	KED
	Ni	62	26.849	ug/L	1.297	4	6	4360	3	KED
	Cu	63	25.871	ug/L	0.515	1	46	75715	0	KED
	Cu	65	25.410	ug/L	0.498	1	30	37195	0	KED
	Zn	66	85.468	ug/L	1.679	1	35	33708	0	KED
	Zn	67	80.826	ug/L	3.280	4	6	5398	3	KED
	As	75	25.584	ug/L	0.447	1	7	5105	0	KED
	Se	78	76.238	ug/L	3.545	4	14	1666	3	KED
	Y	89		ug/L			287925	271289	2	Standard
	Kr	83		ug/L			53	93	16	Standard
>	In-1	115		ug/L			7687	7249	2	KED
	Cd	111	24.571	ug/L	0.730	2	4	5570	2	KED
	Cd	114	24.579	ug/L	0.313	1	7	13551	1	KED
>	In	115		ug/L			427037	391727	1	Standard
	Ag	107	24.401	ug/L	0.433	1	100	322486	2	Standard
	Ba	135	37.405	ug/L	0.312	0	78	132960	2	Standard
	Ba	137	37.285	ug/L	0.793	2	142	234224	1	Standard
>	Tb	159		ug/L			675781	663708	2	Standard
	Pb	208	24.736	ug/L	0.443	1	179	1104347	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:32:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	912346	1	Standard
⌊	**Be**	**9**	**0.018**	ug/L	0.003	16	7	179	15	Standard
	C	**13**		ug/L			36839	67964	2	Standard
	Cl	**37**		ug/L			4390964	4919248	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	602487	1	Standard
⌈	**Cr**	**52**	**5.314**	ug/L	0.101	1	15443	132053	1	Standard
⌊	**Cr**	**53**	**5.457**	ug/L	0.128	2	178	14039	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	25000	1	KED
⌈	**Ni**	**60**	**0.398**	ug/L	0.026	6	40	429	5	KED
⌊	**Ni**	**62**	**0.356**	ug/L	0.044	12	6	62	9	KED
⌈	**Cu**	**63**	**6.924**	ug/L	0.075	1	46	19629	1	KED
⌊	**Cu**	**65**	**6.852**	ug/L	0.059	0	30	9720	1	KED
⌈	**Zn**	**66**	**2.973**	ug/L	0.136	4	35	1165	4	KED
⌊	**Zn**	**67**	**2.941**	ug/L	0.392	13	6	196	12	KED
⌈	**As**	**75**	**0.077**	ug/L	0.036	47	7	21	32	KED
⌊	**Se**	**78**	**0.073**	ug/L	0.106	146	14	14	14	KED
	Y	**89**		ug/L			287925	293961	1	Standard
	Kr	**83**		ug/L			53	58	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7037	0	KED
⌈	**Cd**	**111**	**0.069**	ug/L	0.027	38	4	19	31	KED
⌊	**Cd**	**114**	**0.071**	ug/L	0.019	26	7	44	23	KED
⌈>	**In**	**115**		ug/L			427037	407246	1	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	90	100	87	9	Standard
⌈	**Ba**	**135**	**1.533**	ug/L	0.038	2	78	5737	1	Standard
⌊	**Ba**	**137**	**1.576**	ug/L	0.005	0	142	10425	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	667021	1	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	12	179	565	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:37:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	780703	0	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.000	27	7	18	15	Standard
	C	**13**		ug/L			36839	55740	2	Standard
	Cl	**37**		ug/L			4390964	4760158	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	586311	0	Standard
⌈	**Cr**	**52**	**8.624**	ug/L	0.091	1	15443	198112	0	Standard
⌊	**Cr**	**53**	**8.735**	ug/L	0.167	1	178	21755	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	24887	1	KED
⌈	**Ni**	**60**	**0.239**	ug/L	0.025	10	40	271	8	KED
⌊	**Ni**	**62**	**0.386**	ug/L	0.048	12	6	66	10	KED
⌈	**Cu**	**63**	**6.676**	ug/L	0.168	2	46	18839	2	KED
⌊	**Cu**	**65**	**6.520**	ug/L	0.102	1	30	9211	2	KED
⌈	**Zn**	**66**	**1.565**	ug/L	0.173	11	35	626	9	KED
⌊	**Zn**	**67**	**1.404**	ug/L	0.311	22	6	96	19	KED
⌈	**As**	**75**	**0.052**	ug/L	0.006	10	7	16	7	KED
⌊	**Se**	**78**	**0.168**	ug/L	0.098	58	14	16	12	KED
	Y	**89**		ug/L			287925	287175	0	Standard
	Kr	**83**		ug/L			53	53	10	Standard
⌈>	**In-1**	**115**		ug/L			7687	6838	2	KED
⌈	**Cd**	**111**	**0.010**	ug/L	0.005	50	4	5	16	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	56	7	3	56	KED
⌈>	**In**	**115**		ug/L			427037	398019	0	Standard
⌈	**Ag**	**107**	**-0.002**	ug/L	0.001	52	100	67	20	Standard
⌈	**Ba**	**135**	**1.604**	ug/L	0.025	1	78	5862	1	Standard
⌊	**Ba**	**137**	**1.630**	ug/L	0.032	1	142	10535	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	646052	1	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.001	11	179	642	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:42:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	821976	2	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.000	4384	7	8	48	Standard
	C	**13**		ug/L			36839	58274	2	Standard
	Cl	**37**		ug/L			4390964	4796965	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	575786	2	Standard
⌈	**Cr**	**52**	**4.265**	ug/L	0.110	2	15443	104523	1	Standard
⌊	**Cr**	**53**	**4.287**	ug/L	0.028	0	178	10584	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	25056	1	KED
⌈	**Ni**	**60**	**0.274**	ug/L	0.020	7	40	307	6	KED
⌊	**Ni**	**62**	**0.351**	ug/L	0.047	13	6	61	10	KED
⌈	**Cu**	**63**	**5.490**	ug/L	0.069	1	46	15606	0	KED
⌊	**Cu**	**65**	**5.463**	ug/L	0.205	3	30	7772	2	KED
⌈	**Zn**	**66**	**1.111**	ug/L	0.083	7	35	457	7	KED
⌊	**Zn**	**67**	**1.127**	ug/L	0.174	15	6	79	14	KED
⌈	**As**	**75**	**0.049**	ug/L	0.010	19	7	16	10	KED
⌊	**Se**	**78**	**0.183**	ug/L	0.089	48	14	17	11	KED
	Y	**89**		ug/L			287925	288859	2	Standard
	Kr	**83**		ug/L			53	62	10	Standard
⌈>	**In-1**	**115**		ug/L			7687	6945	1	KED
⌈	**Cd**	**111**	**-0.003**	ug/L	0.005	208	4	3	34	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.000	4	7	3	2	KED
⌈>	**In**	**115**		ug/L			427037	393264	2	Standard
⌈	**Ag**	**107**	**-0.004**	ug/L	0.001	25	100	41	32	Standard
⌈	**Ba**	**135**	**1.978**	ug/L	0.036	1	78	7125	0	Standard
⌊	**Ba**	**137**	**1.934**	ug/L	0.053	2	142	12318	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	642706	3	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.002	19	179	516	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-03RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:47:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	774703	3	Standard
[	**Be**	**9**	**0.001**	ug/L	0.001	59	7	15	33	Standard
	C	**13**		ug/L			36839	43423	2	Standard
	Cl	**37**		ug/L			4390964	6080299	3	Standard
[>	**Sc**	**45**		ug/L			538647	538459	1	Standard
[	**Cr**	**52**	**1.046**	ug/L	0.063	6	15443	35630	2	Standard
[	**Cr**	**53**	**3.161**	ug/L	0.048	1	178	7344	0	Standard
[>	**Ge**	**72**		ug/L			26915	27407	3	KED
[	**Ni**	**60**	**0.698**	ug/L	0.047	6	40	792	3	KED
[	**Ni**	**62**	**0.658**	ug/L	0.090	13	6	120	9	KED
[	**Cu**	**63**	**0.726**	ug/L	0.010	1	46	2298	4	KED
[	**Cu**	**65**	**0.702**	ug/L	0.032	4	30	1120	6	KED
[	**Zn**	**66**	**71.328**	ug/L	2.504	3	35	29811	1	KED
[	**Zn**	**67**	**65.341**	ug/L	2.161	3	6	4625	1	KED
[	**As**	**75**	**0.160**	ug/L	0.025	15	7	40	11	KED
[	**Se**	**78**	**0.004**	ug/L	0.105	2356	14	14	13	KED
	Y	**89**		ug/L			287925	280000	1	Standard
	Kr	**83**		ug/L			53	48	23	Standard
[>	**In-1**	**115**		ug/L			7687	7155	0	KED
[	**Cd**	**111**	**0.048**	ug/L	0.015	30	4	14	22	KED
[	**Cd**	**114**	**0.044**	ug/L	0.019	43	7	30	34	KED
[>	**In**	**115**		ug/L			427037	400380	0	Standard
[	**Ag**	**107**	**-0.002**	ug/L	0.000	20	100	60	11	Standard
[	**Ba**	**135**	**2.101**	ug/L	0.026	1	78	7701	0	Standard
[	**Ba**	**137**	**2.077**	ug/L	0.031	1	142	13464	1	Standard
[>	**Tb**	**159**		ug/L			675781	646508	1	Standard
[	**Pb**	**208**	**0.139**	ug/L	0.005	3	179	6207	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:53:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	797678	4	Standard
⌊	**Be**	**9**	**50.420**	ug/L	3.534	7	7	409745	2	Standard
	C	**13**		ug/L			36839	40863	3	Standard
	Cl	**37**		ug/L			4390964	4839629	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	566405	2	Standard
⌈	**Cr**	**52**	**48.841**	ug/L	1.149	2	15443	1007853	0	Standard
⌊	**Cr**	**53**	**48.106**	ug/L	1.945	4	178	114842	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26784	1	KED
⌈	**Ni**	**60**	**51.196**	ug/L	0.675	1	40	53944	1	KED
⌈	**Ni**	**62**	**51.771**	ug/L	1.197	2	6	8707	1	KED
⌈	**Cu**	**63**	**52.533**	ug/L	0.204	0	46	159260	1	KED
⌈	**Cu**	**65**	**51.399**	ug/L	0.336	0	30	77929	1	KED
⌈	**Zn**	**66**	**51.373**	ug/L	1.302	2	35	21006	2	KED
⌈	**Zn**	**67**	**50.463**	ug/L	2.336	4	6	3493	3	KED
⌈	**As**	**75**	**49.584**	ug/L	0.472	0	7	10244	1	KED
⌊	**Se**	**78**	**50.237**	ug/L	0.659	1	14	1142	0	KED
	Y	**89**		ug/L			287925	295022	1	Standard
	Kr	**83**		ug/L			53	65	14	Standard
⌈>	**In-1**	**115**		ug/L			7687	7443	1	KED
⌈	**Cd**	**111**	**51.461**	ug/L	0.271	0	4	11979	1	KED
⌊	**Cd**	**114**	**50.886**	ug/L	0.898	1	7	28802	0	KED
⌈>	**In**	**115**		ug/L			427037	424855	1	Standard
⌈	**Ag**	**107**	**49.020**	ug/L	0.600	1	100	702505	1	Standard
⌈	**Ba**	**135**	**47.893**	ug/L	0.836	1	78	184584	0	Standard
⌊	**Ba**	**137**	**47.266**	ug/L	1.177	2	142	321984	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	673995	1	Standard
⌊	**Pb**	**208**	**50.717**	ug/L	1.557	3	179	2299094	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:00:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	774985	5	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	240	7	6	45	Standard
	C	**13**		ug/L			36839	41009	7	Standard
	Cl	**37**		ug/L			4390964	4455865	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	545509	2	Standard
⌈	**Cr**	**52**	**0.008**	ug/L	0.035	422	15443	15802	5	Standard
⌊	**Cr**	**53**	**0.044**	ug/L	0.003	5	178	281	4	Standard
⌈>	**Ge**	**72**		ug/L			26915	27073	3	KED
⌈	**Ni**	**60**	**-0.009**	ug/L	0.013	147	40	31	41	KED
⌊	**Ni**	**62**	**0.026**	ug/L	0.039	148	6	11	57	KED
⌈	**Cu**	**63**	**-0.007**	ug/L	0.002	26	46	24	26	KED
⌊	**Cu**	**65**	**-0.011**	ug/L	0.001	11	30	13	15	KED
⌈	**Zn**	**66**	**-0.051**	ug/L	0.017	33	35	14	45	KED
⌊	**Zn**	**67**	**-0.038**	ug/L	0.055	145	6	4	89	KED
⌈	**As**	**75**	**0.011**	ug/L	0.005	45	7	9	7	KED
⌊	**Se**	**78**	**-0.027**	ug/L	0.086	317	14	13	10	KED
	Y	**89**		ug/L			287925	286699	0	Standard
	Kr	**83**		ug/L			53	53	19	Standard
⌈>	**In-1**	**115**		ug/L			7687	7508	1	KED
⌈	**Cd**	**111**	**-0.012**	ug/L	0.002	19	4	1	43	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	25	7	3	34	KED
⌈>	**In**	**115**		ug/L			427037	419721	1	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.001	311	100	94	14	Standard
⌈	**Ba**	**135**	**-0.015**	ug/L	0.001	5	78	19	17	Standard
⌊	**Ba**	**137**	**-0.016**	ug/L	0.001	4	142	30	16	Standard
⌈>	**Tb**	**159**		ug/L			675781	661696	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	32	179	116	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:09:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				38749	0	Standard
	Cl	**37**		ug/L				4373298	0	Standard
⎡>	**Sc**	**45**		ug/L				544532	2	Standard
⎢	**Cr**	**52**		ug/L				15553	1	Standard
⎣	**Cr**	**53**		ug/L				269	1	Standard
⎡>	**Ge**	**72**		ug/L				26846	0	KED
⎢	**Cu**	**63**		ug/L				27	28	KED
⎢	**Cu**	**65**		ug/L				13	69	KED
⎢	**Zn**	**66**		ug/L				22	24	KED
⎢	**Zn**	**67**		ug/L				3	86	KED
⎣	**As**	**75**		ug/L				6	4	KED
	Y	**89**		ug/L				285357	0	Standard
	Kr	**83**		ug/L				53	21	Standard
⎡>	**In-1**	**115**		ug/L				7783	3	KED
⎢	**Cd**	**111**		ug/L				3	41	KED
⎣	**Cd**	**114**		ug/L				5	67	KED
⎡>	**In**	**115**		ug/L				420460	0	Standard
⎣	**Ag**	**107**		ug/L				62	16	Standard
⎡>	**Tb**	**159**		ug/L				655044	1	Standard
⎣	**Pb**	**208**		ug/L				75	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:14:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	38090	1	Standard
	Cl	**37**		ug/L			4373298	4577464	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	545775	1	Standard
|	**Cr**	**52**	**48.528**	ug/L	0.983	2	15553	965437	3	Standard
⌊	**Cr**	**53**	**48.032**	ug/L	0.311	0	269	110639	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26812	0	KED
|	**Cu**	**63**	**51.540**	ug/L	0.266	0	27	156393	1	KED
|	**Cu**	**65**	**51.032**	ug/L	0.859	1	13	77432	1	KED
|	**Zn**	**66**	**52.777**	ug/L	0.848	1	22	21590	1	KED
|	**Zn**	**67**	**49.918**	ug/L	1.646	3	3	3458	3	KED
⌊	**As**	**75**	**50.482**	ug/L	0.469	0	6	10440	0	KED
	Y	**89**		ug/L			285357	282671	2	Standard
	Kr	**83**		ug/L			53	63	19	Standard
⌈>	**In-1**	**115**		ug/L			7783	7197	1	KED
|	**Cd**	**111**	**50.185**	ug/L	0.807	1	3	11294	1	KED
⌊	**Cd**	**114**	**50.894**	ug/L	1.155	2	5	27850	1	KED
⌈>	**In**	**115**		ug/L			420460	412709	1	Standard
⌊	**Ag**	**107**	**49.501**	ug/L	0.808	1	62	689142	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	665426	1	Standard
⌊	**Pb**	**208**	**50.709**	ug/L	1.267	2	75	2269930	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:21:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	39198	0	Standard
	Cl	**37**		ug/L			4373298	4343461	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	536172	3	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.031	155	15553	15682	2	Standard
⌊	**Cr**	**53**	**-0.020**	ug/L	0.009	43	269	220	7	Standard
⌈>	**Ge**	**72**		ug/L			26846	26546	1	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	102	27	23	16	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	108	13	20	35	KED
|	**Zn**	**66**	**-0.018**	ug/L	0.008	41	22	14	19	KED
|	**Zn**	**67**	**0.020**	ug/L	0.059	301	3	5	78	KED
⌊	**As**	**75**	**0.014**	ug/L	0.008	56	6	9	15	KED
	Y	**89**		ug/L			285357	284792	1	Standard
	Kr	**83**		ug/L			53	52	2	Standard
⌈>	**In-1**	**115**		ug/L			7783	7757	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.008	105	3	1	124	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.003	50	5	1	123	KED
⌈>	**In**	**115**		ug/L			420460	427056	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	20	62	85	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	653515	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	61	75	101	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:26:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	58344	3	Standard
	Cl	**37**		ug/L			4373298	4263896	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	539725	4	Standard
|	**Cr**	**52**	**0.088**	ug/L	0.010	11	15553	17122	3	Standard
⌊	**Cr**	**53**	**0.015**	ug/L	0.006	40	269	302	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	26368	2	KED
|	**Cu**	**63**	**0.025**	ug/L	0.007	30	27	101	24	KED
|	**Cu**	**65**	**0.023**	ug/L	0.003	13	13	47	12	KED
|	**Zn**	**66**	**0.405**	ug/L	0.020	4	22	184	5	KED
|	**Zn**	**67**	**0.347**	ug/L	0.049	14	3	27	10	KED
⌊	**As**	**75**	**0.003**	ug/L	0.007	233	6	7	19	KED
	Y	**89**		ug/L			285357	285701	4	Standard
	Kr	**83**		ug/L			53	59	21	Standard
⌈>	**In-1**	**115**		ug/L			7783	7662	0	KED
|	**Cd**	**111**	**0.003**	ug/L	0.009	319	3	4	53	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	59	5	2	99	KED
⌈>	**In**	**115**		ug/L			420460	420772	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	7	62	77	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	646587	1	Standard
⌊	**Pb**	**208**	**0.036**	ug/L	0.003	7	75	1635	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:31:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53484	2	Standard
	Cl	**37**		ug/L			4373298	4386594	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	558105	1	Standard
|	**Cr**	**52**	**25.966**	ug/L	0.498	1	15553	535527	1	Standard
⌊	**Cr**	**53**	**25.514**	ug/L	0.088	0	269	60231	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27120	2	KED
|	**Cu**	**63**	**27.463**	ug/L	0.347	1	27	84289	1	KED
|	**Cu**	**65**	**26.770**	ug/L	0.670	2	13	41107	4	KED
|	**Zn**	**66**	**83.393**	ug/L	1.396	1	22	34502	3	KED
|	**Zn**	**67**	**75.694**	ug/L	1.250	1	3	5300	1	KED
⌊	**As**	**75**	**25.103**	ug/L	0.196	0	6	5255	2	KED
	Y	**89**		ug/L			285357	290322	0	Standard
	Kr	**83**		ug/L			53	66	28	Standard
⌈>	**In-1**	**115**		ug/L			7783	7965	1	KED
|	**Cd**	**111**	**25.705**	ug/L	0.249	0	3	6404	0	KED
⌊	**Cd**	**114**	**25.842**	ug/L	1.013	3	5	15652	2	KED
⌈>	**In**	**115**		ug/L			420460	428519	1	Standard
⌊	**Ag**	**107**	**26.572**	ug/L	0.397	1	62	384078	0	Standard
⌈>	**Tb**	**159**		ug/L			655044	672287	2	Standard
⌊	**Pb**	**208**	**27.254**	ug/L	0.735	2	75	1232199	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:35:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	48169	0	Standard
	Cl	37		ug/L			4373298	4350216	1	Standard
⌈>	Sc	45		ug/L			544532	538380	4	Standard
|	Cr	52	0.043	ug/L	0.014	32	15553	16207	3	Standard
⌊	Cr	53	-0.006	ug/L	0.009	145	269	252	3	Standard
⌈>	Ge	72		ug/L			26846	28199	1	KED
|	Cu	63	0.084	ug/L	0.003	3	27	297	4	KED
|	Cu	65	0.098	ug/L	0.010	9	13	170	10	KED
|	Zn	66	0.546	ug/L	0.041	7	22	257	5	KED
|	Zn	67	0.591	ug/L	0.046	7	3	46	6	KED
⌊	As	75	0.012	ug/L	0.015	128	6	9	33	KED
	Y	89		ug/L			285357	280586	4	Standard
	Kr	83		ug/L			53	48	17	Standard
⌈>	In-1	115		ug/L			7783	7833	3	KED
|	Cd	111	0.004	ug/L	0.010	256	3	4	53	KED
⌊	Cd	114	-0.002	ug/L	0.004	212	5	4	44	KED
⌈>	In	115		ug/L			420460	417966	4	Standard
⌊	Ag	107	0.004	ug/L	0.001	22	62	123	9	Standard
⌈>	Tb	159		ug/L			655044	659631	3	Standard
⌊	Pb	208	0.056	ug/L	0.001	2	75	2541	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:39:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	48048	1	Standard
	Cl	37		ug/L			4373298	4388511	5	Standard
>	Sc	45		ug/L			544532	554424	1	Standard
	Cr	52	24.971	ug/L	0.344	1	15553	512202	0	Standard
	Cr	53	25.143	ug/L	0.669	2	269	58957	2	Standard
>	Ge	72		ug/L			26846	27851	1	KED
	Cu	63	26.906	ug/L	0.774	2	27	84802	1	KED
	Cu	65	26.106	ug/L	0.472	1	13	41151	0	KED
	Zn	66	83.282	ug/L	2.233	2	22	35371	1	KED
	Zn	67	76.524	ug/L	2.580	3	3	5502	2	KED
	As	75	24.940	ug/L	0.578	2	6	5360	1	KED
	Y	89		ug/L			285357	292300	1	Standard
	Kr	83		ug/L			53	58	24	Standard
>	In-1	115		ug/L			7783	7574	1	KED
	Cd	111	25.372	ug/L	0.645	2	3	6010	0	KED
	Cd	114	25.419	ug/L	0.331	1	5	14645	2	KED
>	In	115		ug/L			420460	430116	2	Standard
	Ag	107	25.708	ug/L	0.722	2	62	372868	0	Standard
>	Tb	159		ug/L			655044	665828	1	Standard
	Pb	208	26.796	ug/L	0.226	0	75	1200306	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0328-17RE1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:44:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	59818	3	Standard
	Cl	37		ug/L			4373298	4538044	1	Standard
>	Sc	45		ug/L			544532	630380	4	Standard
	Cr	52	30.718	ug/L	0.356	1	15553	712212	3	Standard
	Cr	53	30.618	ug/L	0.333	1	269	81549	3	Standard
>	Ge	72		ug/L			26846	27906	2	KED
	Cu	63	625.494	ug/L	3.218	0	27	1975205	3	KED
	Cu	65	616.225	ug/L	7.088	1	13	973065	2	KED
	Zn	66	228.517	ug/L	3.276	1	22	97205	1	KED
	Zn	67	205.127	ug/L	3.059	1	3	14773	1	KED
	As	75	8.548	ug/L	0.146	1	6	1845	1	KED
	Y	89		ug/L			285357	467923	4	Standard
	Kr	83		ug/L			53	109	4	Standard
>	In-1	115		ug/L			7783	7679	2	KED
	Cd	111	0.393	ug/L	0.013	3	3	97	0	KED
	Cd	114	0.380	ug/L	0.045	11	5	227	8	KED
>	In	115		ug/L			420460	422799	1	Standard
	Ag	107	0.172	ug/L	0.010	6	62	2512	7	Standard
>	Tb	159		ug/L			655044	678316	4	Standard
	Pb	208	126.420	ug/L	2.040	1	75	5767564	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:52:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	52083	1	Standard
	Cl	37		ug/L			4373298	4550764	2	Standard
>	Sc	45		ug/L			544532	612694	2	Standard
	Cr	52	20.329	ug/L	0.225	1	15553	464034	1	Standard
	Cr	53	20.621	ug/L	0.348	1	269	53484	1	Standard
>	Ge	72		ug/L			26846	27804	2	KED
	Cu	63	508.763	ug/L	8.302	1	27	1600281	0	KED
	Cu	65	507.261	ug/L	19.060	3	13	797685	1	KED
	Zn	66	181.592	ug/L	4.780	2	22	76952	0	KED
	Zn	67	164.663	ug/L	9.360	5	3	11809	3	KED
	As	75	7.027	ug/L	0.136	1	6	1512	0	KED
	Y	89		ug/L			285357	424552	2	Standard
	Kr	83		ug/L			53	96	4	Standard
>	In-1	115		ug/L			7783	8047	0	KED
	Cd	111	0.234	ug/L	0.039	16	3	62	15	KED
	Cd	114	0.253	ug/L	0.046	18	5	160	17	KED
>	In	115		ug/L			420460	430369	2	Standard
	Ag	107	0.166	ug/L	0.008	5	62	2477	5	Standard
>	Tb	159		ug/L			655044	687911	1	Standard
	Pb	208	56.232	ug/L	0.929	1	75	2602104	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:56:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			38749	54071	0	Standard
	Cl		37		ug/L			4373298	4522522	1	Standard
>	Sc		45		ug/L			544532	601568	3	Standard
	Cr		52	55.490	ug/L	1.179	2	15553	1213691	1	Standard
	Cr		53	55.449	ug/L	0.626	1	269	140724	2	Standard
>	Ge		72		ug/L			26846	26612	2	KED
	Cu		63	722.262	ug/L	15.212	2	27	2174287	1	KED
	Cu		65	704.624	ug/L	10.041	1	13	1061278	3	KED
	Zn		66	345.772	ug/L	8.173	2	22	140217	0	KED
	Zn		67	315.466	ug/L	6.638	2	3	21660	0	KED
	As		75	33.178	ug/L	0.463	1	6	6811	1	KED
	Y		89		ug/L			285357	436240	1	Standard
	Kr		83		ug/L			53	104	4	Standard
>	In-1		115		ug/L			7783	7811	2	KED
	Cd		111	25.431	ug/L	0.099	0	3	6214	2	KED
	Cd		114	25.308	ug/L	0.774	3	5	15035	3	KED
>	In		115		ug/L			420460	414417	3	Standard
	Ag		107	22.208	ug/L	0.571	2	62	310498	4	Standard
>	Tb		159		ug/L			655044	668577	4	Standard
	Pb	STL	208	100.793	ug/L	3.673	3	75	4529260	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:01:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	54832	1	Standard
	Cl	37		ug/L			4373298	4588147	1	Standard
>	Sc	45		ug/L			544532	602445	3	Standard
	Cr	52	54.715	ug/L	1.595	2	15553	1198428	0	Standard
	Cr	53	55.188	ug/L	1.650	2	269	140190	0	Standard
>	Ge	72		ug/L			26846	26816	3	KED
	Cu	63	939.535	ug/L	18.345	1	27	2849594	1	KED
	Cu	65	928.960	ug/L	18.348	1	13	1409026	1	KED
	Zn	66	390.414	ug/L	10.384	2	22	159533	2	KED
	Zn	67	346.776	ug/L	6.381	1	3	23992	1	KED
	As	75	34.162	ug/L	0.429	1	6	7066	2	KED
	Y	89		ug/L			285357	450820	2	Standard
	Kr	83		ug/L			53	120	7	Standard
>	In-1	115		ug/L			7783	7527	2	KED
	Cd	111	26.005	ug/L	0.515	1	3	6124	3	KED
	Cd	114	25.560	ug/L	0.289	1	5	14635	3	KED
>	In	115		ug/L			420460	423255	2	Standard
	Ag	107	24.480	ug/L	0.381	1	62	349489	2	Standard
>	Tb	159		ug/L			655044	674491	1	Standard
	Pb STL	208	218.951	ug/L	2.288	1	75	9934463	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-02
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:06:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56723	2	Standard
	Cl	**37**		ug/L			4373298	4159333	0	Standard
⌈>	**Sc**	**45**		ug/L			544532	587519	0	Standard
|	**Cr**	**52**	**7.317**	ug/L	0.137	1	15553	170901	0	Standard
⌊	**Cr**	**53**	**7.251**	ug/L	0.060	0	269	18226	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	27201	1	KED
|	**Cu**	**63**	**18.141**	ug/L	0.091	0	27	55865	1	KED
|	**Cu**	**65**	**17.904**	ug/L	0.282	1	13	27570	1	KED
|	**Zn**	**66**	**37.705**	ug/L	0.130	0	22	15655	1	KED
|	**Zn**	**67**	**36.393**	ug/L	1.331	3	3	2557	2	KED
⌊	**As**	**75**	**3.565**	ug/L	0.196	5	6	754	3	KED
	Y	**89**		ug/L			285357	395815	0	Standard
	Kr	**83**		ug/L			53	96	6	Standard
⌈>	**In-1**	**115**		ug/L			7783	7594	1	KED
|	**Cd**	**111**	**0.187**	ug/L	0.008	4	3	47	4	KED
⌊	**Cd**	**114**	**0.165**	ug/L	0.018	10	5	100	9	KED
⌈>	**In**	**115**		ug/L			420460	413871	1	Standard
⌊	**Ag**	**107**	**0.226**	ug/L	0.010	4	62	3209	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	665549	2	Standard
⌊	**Pb**	**208**	**14.605**	ug/L	0.308	2	75	653828	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:11:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	40021	0	Standard
	Cl	**37**		ug/L			4373298	4088119	2	Standard
⎡>	**Sc**	**45**		ug/L			544532	508293	4	Standard
⎢	**Cr**	**52**	**-0.004**	ug/L	0.005	110	15553	14442	3	Standard
⎣	**Cr**	**53**	**-0.039**	ug/L	0.007	19	269	169	12	Standard
⎡>	**Ge**	**72**		ug/L			26846	27199	1	KED
⎢	**Cu**	**63**	**0.013**	ug/L	0.005	37	27	66	20	KED
⎢	**Cu**	**65**	**0.013**	ug/L	0.005	42	13	33	25	KED
⎢	**Zn**	**66**	**0.030**	ug/L	0.034	112	22	34	39	KED
⎢	**Zn**	**67**	**0.035**	ug/L	0.056	158	3	6	62	KED
⎣	**As**	**75**	**0.002**	ug/L	0.010	498	6	7	26	KED
	Y	**89**		ug/L			285357	273023	2	Standard
	Kr	**83**		ug/L			53	50	30	Standard
⎡>	**In-1**	**115**		ug/L			7783	7546	2	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.005	153	3	4	26	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.008	826	5	4	96	KED
⎡>	**In**	**115**		ug/L			420460	404873	2	Standard
⎣	**Ag**	**107**	**0.001**	ug/L	0.000	54	62	67	4	Standard
⎡>	**Tb**	**159**		ug/L			655044	639841	3	Standard
⎣	**Pb**	**208**	**0.003**	ug/L	0.001	17	75	211	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:15:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37536	1	Standard
	Cl	**37**		ug/L			4373298	4468572	1	Standard
⎡>	**Sc**	**45**		ug/L			544532	526216	0	Standard
⎢	**Cr**	**52**	**50.086**	ug/L	0.096	0	15553	960071	0	Standard
⎣	**Cr**	**53**	**48.565**	ug/L	1.097	2	269	107850	1	Standard
⎡>	**Ge**	**72**		ug/L			26846	26172	0	KED
⎢	**Cu**	**63**	**50.453**	ug/L	1.540	3	27	149439	3	KED
⎢	**Cu**	**65**	**50.109**	ug/L	1.000	1	13	74224	1	KED
⎢	**Zn**	**66**	**50.529**	ug/L	0.840	1	22	20178	1	KED
⎢	**Zn**	**67**	**50.007**	ug/L	2.585	5	3	3381	5	KED
⎣	**As**	**75**	**49.682**	ug/L	1.024	2	6	10030	2	KED
	Y	**89**		ug/L			285357	280982	1	Standard
	Kr	**83**		ug/L			53	62	20	Standard
⎡>	**In-1**	**115**		ug/L			7783	7450	2	KED
⎢	**Cd**	**111**	**49.386**	ug/L	1.072	2	3	11504	2	KED
⎣	**Cd**	**114**	**49.889**	ug/L	0.552	1	5	28263	2	KED
⎡>	**In**	**115**		ug/L			420460	405587	0	Standard
⎣	**Ag**	**107**	**50.003**	ug/L	1.269	2	62	684015	1	Standard
⎡>	**Tb**	**159**		ug/L			655044	669733	2	Standard
⎣	**Pb**	**208**	**49.523**	ug/L	1.541	3	75	2230270	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:22:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36786	0	Standard
	Cl	**37**		ug/L			4373298	4128223	4	Standard
⌈>	**Sc**	**45**		ug/L			544532	495649	4	Standard
|	**Cr**	**52**	**-0.012**	ug/L	0.021	178	15553	13948	5	Standard
⌊	**Cr**	**53**	**-0.031**	ug/L	0.011	35	269	179	9	Standard
⌈>	**Ge**	**72**		ug/L			26846	25635	8	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	83	27	33	18	KED
|	**Cu**	**65**	**0.000**	ug/L	0.003	4036	13	13	28	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.015	71	22	13	49	KED
|	**Zn**	**67**	**-0.015**	ug/L	0.021	133	3	2	43	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.011	508	6	6	31	KED
	Y	**89**		ug/L			285357	260328	3	Standard
	Kr	**83**		ug/L			53	56	39	Standard
⌈>	**In-1**	**115**		ug/L			7783	7633	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.003	86	3	4	13	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.004	91	5	3	71	KED
⌈>	**In**	**115**		ug/L			420460	396829	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	60	62	85	16	Standard
⌈>	**Tb**	**159**		ug/L			655044	622410	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	75	111	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0328-17RE2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:29:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	41066	2	Standard
	Cl	**37**		ug/L			4373298	4040656	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	521480	4	Standard
|	**Cr**	**52**	**7.178**	ug/L	0.171	2	15553	149015	2	Standard
⌊	**Cr**	**53**	**6.972**	ug/L	0.061	0	269	15562	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	27101	1	KED
|	**Cu**	**63**	**132.008**	ug/L	2.047	1	27	404801	1	KED
|	**Cu**	**65**	**128.587**	ug/L	3.154	2	13	197202	2	KED
|	**Zn**	**66**	**48.286**	ug/L	1.349	2	22	19962	1	KED
|	**Zn**	**67**	**43.417**	ug/L	0.051	0	3	3040	1	KED
⌊	**As**	**75**	**1.807**	ug/L	0.051	2	6	384	3	KED
	Y	**89**		ug/L			285357	302337	2	Standard
	Kr	**83**		ug/L			53	55	19	Standard
⌈>	**In-1**	**115**		ug/L			7783	7683	2	KED
|	**Cd**	**111**	**0.052**	ug/L	0.023	43	3	15	35	KED
⌊	**Cd**	**114**	**0.081**	ug/L	0.024	30	5	52	25	KED
⌈>	**In**	**115**		ug/L			420460	403033	2	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	5	62	516	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	643082	3	Standard
⌊	**Pb**	**208**	**26.174**	ug/L	0.638	2	75	1131774	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-DUP2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:35:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	40896	0	Standard
	Cl	37		ug/L			4373298	4209745	1	Standard
>	Sc	45		ug/L			544532	544099	1	Standard
	Cr	52	4.555	ug/L	0.105	2	15553	104382	0	Standard
	Cr	53	4.627	ug/L	0.056	1	269	10870	2	Standard
>	Ge	72		ug/L			26846	27314	0	KED
	Cu	63	106.361	ug/L	1.782	1	27	328728	1	KED
	Cu	65	103.471	ug/L	0.440	0	13	159937	0	KED
	Zn	66	38.887	ug/L	0.321	0	22	16213	1	KED
	Zn	67	35.086	ug/L	3.256	9	3	2475	8	KED
	As	75	1.434	ug/L	0.021	1	6	308	1	KED
	Y	89		ug/L			285357	311440	1	Standard
	Kr	83		ug/L			53	55	36	Standard
>	In-1	115		ug/L			7783	7335	0	KED
	Cd	111	0.044	ug/L	0.004	8	3	13	7	KED
	Cd	114	0.058	ug/L	0.007	12	5	37	10	KED
>	In	115		ug/L			420460	417332	0	Standard
	Ag	107	0.034	ug/L	0.003	7	62	538	6	Standard
>	Tb	159		ug/L			655044	662956	1	Standard
	Pb	208	11.947	ug/L	0.077	0	75	532912	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:40:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		**13**		ug/L			38749	39206	1	Standard
	Cl		**37**		ug/L			4373298	4159145	1	Standard
⌈>	**Sc**		**45**		ug/L			544532	532512	2	Standard
|	**Cr**		**52**	**12.346**	ug/L	0.273	2	15553	250877	2	Standard
⌊	**Cr**		**53**	**12.477**	ug/L	0.306	2	269	28224	0	Standard
⌈>	**Ge**		**72**		ug/L			26846	26192	3	KED
|	**Cu**		**63**	**147.418**	ug/L	3.298	2	27	436861	3	KED
|	**Cu**	STL	**65**	**147.599**	ug/L	1.055	0	13	218801	4	KED
|	**Zn**		**66**	**75.691**	ug/L	0.641	0	22	30244	4	KED
|	**Zn**		**67**	**67.692**	ug/L	0.763	1	3	4578	2	KED
⌊	**As**		**75**	**7.086**	ug/L	0.043	0	6	1437	3	KED
	Y		**89**		ug/L			285357	308191	3	Standard
	Kr		**83**		ug/L			53	43	12	Standard
⌈>	**In-1**		**115**		ug/L			7783	7669	0	KED
|	**Cd**		**111**	**5.352**	ug/L	0.085	1	3	1286	1	KED
⌊	**Cd**		**114**	**5.364**	ug/L	0.158	2	5	3134	3	KED
⌈>	**In**		**115**		ug/L			420460	409085	1	Standard
⌊	**Ag**		**107**	**4.642**	ug/L	0.090	1	62	64122	3	Standard
⌈>	**Tb**		**159**		ug/L			655044	660032	0	Standard
⌊	**Pb**		**208**	**20.323**	ug/L	0.216	1	75	902548	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MSD2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:44:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		**13**		ug/L			38749	40441	0	Standard
	Cl		**37**		ug/L			4373298	4154293	0	Standard
⌈>	**Sc**		**45**		ug/L			544532	532392	1	Standard
|	**Cr**		**52**	**12.089**	ug/L	0.164	1	15553	245978	1	Standard
⌊	**Cr**		**53**	**11.987**	ug/L	0.180	1	269	27130	1	Standard
⌈>	**Ge**		**72**		ug/L			26846	26927	1	KED
|	**Cu**		**63**	**193.480**	ug/L	1.283	0	27	589500	1	KED
|	**Cu**	STL	**65**	**190.848**	ug/L	3.571	1	13	290760	1	KED
|	**Zn**		**66**	**81.654**	ug/L	2.093	2	22	33524	0	KED
|	**Zn**		**67**	**75.581**	ug/L	1.074	1	3	5254	0	KED
⌊	**As**		**75**	**7.058**	ug/L	0.061	0	6	1471	1	KED
	Y		**89**		ug/L			285357	304519	1	Standard
	Kr		**83**		ug/L			53	59	23	Standard
⌈>	**In-1**		**115**		ug/L			7783	7192	0	KED
|	**Cd**		**111**	**5.338**	ug/L	0.010	0	3	1203	0	KED
⌊	**Cd**		**114**	**5.468**	ug/L	0.079	1	5	2995	0	KED
⌈>	**In**		**115**		ug/L			420460	404357	1	Standard
⌊	**Ag**		**107**	**5.268**	ug/L	0.109	2	62	71900	1	Standard
⌈>	**Tb**		**159**		ug/L			655044	651761	1	Standard
⌊	**Pb**		**208**	**44.437**	ug/L	1.189	2	75	1948094	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-07
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:50:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52306	1	Standard
	Cl	**37**		ug/L			4373298	4081899	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	548187	5	Standard
|	**Cr**	**52**	**7.168**	ug/L	0.230	3	15553	156410	3	Standard
⌊	**Cr**	**53**	**7.206**	ug/L	0.184	2	269	16891	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	25393	2	KED
|	**Cu**	**63**	**11.641**	ug/L	0.408	3	27	33458	1	KED
|	**Cu**	**65**	**11.573**	ug/L	0.095	0	13	16642	1	KED
|	**Zn**	**66**	**28.810**	ug/L	0.627	2	22	11169	1	KED
|	**Zn**	**67**	**27.355**	ug/L	1.159	4	3	1795	3	KED
⌊	**As**	**75**	**3.151**	ug/L	0.108	3	6	623	2	KED
	Y	**89**		ug/L			285357	347765	6	Standard
	Kr	**83**		ug/L			53	85	5	Standard
⌈>	**In-1**	**115**		ug/L			7783	6922	1	KED
|	**Cd**	**111**	**0.163**	ug/L	0.028	16	3	38	14	KED
⌊	**Cd**	**114**	**0.143**	ug/L	0.012	8	5	80	7	KED
⌈>	**In**	**115**		ug/L			420460	388044	6	Standard
⌊	**Ag**	**107**	**0.102**	ug/L	0.004	4	62	1388	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	626347	5	Standard
⌊	**Pb**	**208**	**9.590**	ug/L	0.373	3	75	403678	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:54:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56654	0	Standard
	Cl	**37**		ug/L			4373298	4140206	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	565534	3	Standard
|	**Cr**	**52**	**6.880**	ug/L	0.101	1	15553	155647	3	Standard
⌊	**Cr**	**53**	**6.903**	ug/L	0.140	2	269	16715	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	26727	2	KED
|	**Cu**	**63**	**11.309**	ug/L	0.277	2	27	34218	1	KED
|	**Cu**	**65**	**11.224**	ug/L	0.162	1	13	16985	1	KED
|	**Zn**	**66**	**29.153**	ug/L	0.564	1	22	11898	3	KED
|	**Zn**	**67**	**27.713**	ug/L	1.286	4	3	1913	2	KED
⌊	**As**	**75**	**3.031**	ug/L	0.089	2	6	630	0	KED
	Y	**89**		ug/L			285357	372250	1	Standard
	Kr	**83**		ug/L			53	82	4	Standard
⌈>	**In-1**	**115**		ug/L			7783	7042	1	KED
|	**Cd**	**111**	**0.134**	ug/L	0.025	18	3	32	16	KED
⌊	**Cd**	**114**	**0.119**	ug/L	0.021	17	5	68	15	KED
⌈>	**In**	**115**		ug/L			420460	402781	2	Standard
⌊	**Ag**	**107**	**0.127**	ug/L	0.004	3	62	1788	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	655706	4	Standard
⌊	**Pb**	**208**	**9.556**	ug/L	0.304	3	75	421264	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:58:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	49665	1	Standard
	Cl	37		ug/L			4373298	4147913	2	Standard
>	Sc	45		ug/L			544532	566335	2	Standard
	Cr	52	17.391	ug/L	0.146	0	15553	369320	2	Standard
	Cr	53	17.603	ug/L	0.033	0	269	42253	2	Standard
>	Ge	72		ug/L			26846	26383	1	KED
	Cu	63	22.722	ug/L	0.522	2	27	67847	1	KED
	Cu	65	21.723	ug/L	0.080	0	13	32443	1	KED
	Zn	66	64.950	ug/L	1.280	1	22	26143	3	KED
	Zn	67	60.522	ug/L	1.350	2	3	4124	2	KED
	As	75	13.473	ug/L	0.228	1	6	2746	1	KED
	Y	89		ug/L			285357	376628	2	Standard
	Kr	83		ug/L			53	106	14	Standard
>	In-1	115		ug/L			7783	7429	1	KED
	Cd	111	10.553	ug/L	0.254	2	3	2453	0	KED
	Cd	114	10.505	ug/L	0.509	4	5	5936	3	KED
>	In	115		ug/L			420460	406320	1	Standard
	Ag	107	6.759	ug/L	0.286	4	62	92685	4	Standard
>	Tb	159		ug/L			655044	649924	2	Standard
	Pb	208	21.579	ug/L	0.231	1	75	943455	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:03:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	51634	0	Standard
	Cl	37		ug/L			4373298	4163448	3	Standard
>	Sc	45		ug/L			544532	579776	2	Standard
	Cr	52	16.288	ug/L	0.447	2	15553	355071	2	Standard
	Cr	53	16.376	ug/L	0.205	1	269	40264	3	Standard
>	Ge	72		ug/L			26846	26560	1	KED
	Cu	63	21.273	ug/L	0.148	0	27	63961	1	KED
	Cu	65	21.046	ug/L	0.238	1	13	31646	2	KED
	Zn	66	61.193	ug/L	0.490	0	22	24793	0	KED
	Zn	67	57.157	ug/L	3.039	5	3	3919	4	KED
	As	75	13.207	ug/L	0.243	1	6	2710	1	KED
	Y	89		ug/L			285357	378405	2	Standard
	Kr	83		ug/L			53	97	16	Standard
>	In-1	115		ug/L			7783	7502	2	KED
	Cd	111	10.307	ug/L	0.486	4	3	2419	3	KED
	Cd	114	10.440	ug/L	0.165	1	5	5959	0	KED
>	In	115		ug/L			420460	408727	0	Standard
	Ag	107	6.457	ug/L	0.171	2	62	89082	2	Standard
>	Tb	159		ug/L			655044	661492	3	Standard
	Pb	208	17.934	ug/L	0.192	1	75	798005	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:07:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54508	1	Standard
	Cl	**37**		ug/L			4373298	4094284	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	553666	1	Standard
|	**Cr**	**52**	**29.162**	ug/L	0.821	2	15553	594670	2	Standard
⌊	**Cr**	**53**	**28.887**	ug/L	0.221	0	269	67610	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25823	1	KED
|	**Cu**	**63**	**36.999**	ug/L	0.476	1	27	108123	0	KED
|	**Cu**	**65**	**36.150**	ug/L	0.384	1	13	52839	2	KED
|	**Zn**	**66**	**108.472**	ug/L	1.184	1	22	42713	0	KED
|	**Zn**	**67**	**99.032**	ug/L	3.509	3	3	6602	3	KED
⌊	**As**	**75**	**27.259**	ug/L	0.296	1	6	5432	1	KED
	Y	**89**		ug/L			285357	352534	1	Standard
	Kr	**83**		ug/L			53	78	23	Standard
⌈>	**In-1**	**115**		ug/L			7783	7346	2	KED
|	**Cd**	**111**	**24.525**	ug/L	0.598	2	3	5633	0	KED
⌊	**Cd**	**114**	**24.686**	ug/L	0.837	3	5	13786	1	KED
⌈>	**In**	**115**		ug/L			420460	388260	1	Standard
⌊	**Ag**	**107**	**24.730**	ug/L	0.294	1	62	323895	0	Standard
⌈>	**Tb**	**159**		ug/L			655044	639770	1	Standard
⌊	**Pb**	**208**	**34.257**	ug/L	0.350	1	75	1474423	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:12:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36839	1	Standard
	Cl	**37**		ug/L			4373298	4095249	4	Standard
⌈>	**Sc**	**45**		ug/L			544532	530483	1	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.027	407	15553	15023	2	Standard
⌊	**Cr**	**53**	**-0.049**	ug/L	0.007	14	269	153	11	Standard
⌈>	**Ge**	**72**		ug/L			26846	26635	0	KED
|	**Cu**	**63**	**0.001**	ug/L	0.003	577	27	29	29	KED
|	**Cu**	**65**	**0.003**	ug/L	0.007	192	13	19	51	KED
|	**Zn**	**66**	**0.011**	ug/L	0.013	111	22	26	18	KED
|	**Zn**	**67**	**0.038**	ug/L	0.043	114	3	6	45	KED
⌊	**As**	**75**	**0.006**	ug/L	0.003	58	6	7	9	KED
	Y	**89**		ug/L			285357	270822	1	Standard
	Kr	**83**		ug/L			53	52	20	Standard
⌈>	**In-1**	**115**		ug/L			7783	7660	2	KED
|	**Cd**	**111**	**0.000**	ug/L	0.006	4051	3	3	41	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.010	8951	5	5	104	KED
⌈>	**In**	**115**		ug/L			420460	408643	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	45	62	89	13	Standard
⌈>	**Tb**	**159**		ug/L			655044	653541	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	24	75	186	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:16:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37304	1	Standard
	Cl	**37**		ug/L			4373298	4355176	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	514960	1	Standard
|	**Cr**	**52**	**49.230**	ug/L	0.760	1	15553	923596	0	Standard
⌊	**Cr**	**53**	**48.806**	ug/L	0.881	1	269	106065	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27456	2	KED
|	**Cu**	**63**	**49.496**	ug/L	1.074	2	27	153765	1	KED
|	**Cu**	**65**	**49.781**	ug/L	0.719	1	13	77339	0	KED
|	**Zn**	**66**	**50.474**	ug/L	2.107	4	22	21133	2	KED
|	**Zn**	**67**	**50.097**	ug/L	0.545	1	3	3553	2	KED
⌊	**As**	**75**	**49.587**	ug/L	1.253	2	6	10498	0	KED
	Y	**89**		ug/L			285357	271859	1	Standard
	Kr	**83**		ug/L			53	67	23	Standard
⌈>	**In-1**	**115**		ug/L			7783	7770	1	KED
|	**Cd**	**111**	**49.405**	ug/L	1.261	2	3	12004	2	KED
⌊	**Cd**	**114**	**48.909**	ug/L	0.552	1	5	28897	0	KED
⌈>	**In**	**115**		ug/L			420460	400172	0	Standard
⌊	**Ag**	**107**	**49.600**	ug/L	2.125	4	62	669463	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	653597	1	Standard
⌊	**Pb**	**208**	**49.392**	ug/L	0.668	1	75	2171614	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:23:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37227	2	Standard
	Cl	**37**		ug/L			4373298	4064930	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	517403	1	Standard
|	**Cr**	**52**	**-0.013**	ug/L	0.012	91	15553	14542	0	Standard
⌊	**Cr**	**53**	**-0.040**	ug/L	0.006	15	269	170	7	Standard
⌈>	**Ge**	**72**		ug/L			26846	26453	1	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.003	224	27	24	31	KED
|	**Cu**	**65**	**0.001**	ug/L	0.004	843	13	14	45	KED
|	**Zn**	**66**	**-0.018**	ug/L	0.005	26	22	14	15	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.031	352	3	3	69	KED
⌊	**As**	**75**	**0.011**	ug/L	0.014	125	6	9	32	KED
	Y	**89**		ug/L			285357	268155	3	Standard
	Kr	**83**		ug/L			53	53	8	Standard
⌈>	**In-1**	**115**		ug/L			7783	7549	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.007	394	3	3	43	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	254	5	4	66	KED
⌈>	**In**	**115**		ug/L			420460	405009	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	44	62	97	16	Standard
⌈>	**Tb**	**159**		ug/L			655044	648893	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	7	75	132	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-03
Sample Dil Factor: 50
DEL
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:28:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52486	3	Standard
	Cl	**37**		ug/L			4373298	4185966	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	595746	1	Standard
|	**Cr**	**52**	**6.949**	ug/L	0.202	2	15553	165404	1	Standard
⌊	**Cr**	**53**	**6.894**	ug/L	0.063	0	269	17585	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	26789	0	KED
|	**Cu**	**63**	**16.441**	ug/L	0.185	1	27	49865	1	KED
|	**Cu**	**65**	**16.110**	ug/L	0.467	2	13	24435	3	KED
|	**Zn**	**66**	**34.697**	ug/L	0.753	2	22	14188	1	KED
|	**Zn**	**67**	**34.001**	ug/L	0.357	1	3	2354	1	KED
⌊	**As**	**75**	**3.372**	ug/L	0.023	0	6	703	1	KED
	Y	**89**		ug/L			285357	395348	2	Standard
	Kr	**83**		ug/L			53	105	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7484	0	KED
|	**Cd**	**111**	**0.159**	ug/L	0.019	12	3	40	11	KED
⌊	**Cd**	**114**	**0.158**	ug/L	0.020	12	5	95	12	KED
⌈>	**In**	**115**		ug/L			420460	408149	2	Standard
⌊	**Ag**	**107**	**0.155**	ug/L	0.006	4	62	2197	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	664935	1	Standard
⌊	**Pb**	**208**	**12.429**	ug/L	0.419	3	75	555848	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-04
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:32:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52091	0	Standard
	Cl	**37**		ug/L			4373298	4125301	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	579430	2	Standard
|	**Cr**	**52**	**6.637**	ug/L	0.184	2	15553	154367	0	Standard
⌊	**Cr**	**53**	**6.679**	ug/L	0.086	1	269	16579	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	27136	1	KED
|	**Cu**	**63**	**14.598**	ug/L	0.320	2	27	44839	0	KED
|	**Cu**	**65**	**14.559**	ug/L	0.492	3	13	22360	1	KED
|	**Zn**	**66**	**29.722**	ug/L	0.436	1	22	12315	2	KED
|	**Zn**	**67**	**29.111**	ug/L	0.311	1	3	2042	2	KED
⌊	**As**	**75**	**2.767**	ug/L	0.039	1	6	585	1	KED
	Y	**89**		ug/L			285357	387793	2	Standard
	Kr	**83**		ug/L			53	89	3	Standard
⌈>	**In-1**	**115**		ug/L			7783	7550	2	KED
|	**Cd**	**111**	**0.119**	ug/L	0.051	42	3	31	37	KED
⌊	**Cd**	**114**	**0.116**	ug/L	0.015	13	5	72	14	KED
⌈>	**In**	**115**		ug/L			420460	403752	1	Standard
⌊	**Ag**	**107**	**0.119**	ug/L	0.005	4	62	1681	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	657238	1	Standard
⌊	**Pb**	**208**	**11.588**	ug/L	0.119	1	75	512408	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-05
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:36:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54529	3	Standard
	Cl	**37**		ug/L			4373298	4125689	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	619919	2	Standard
|	**Cr**	**52**	**4.836**	ug/L	0.088	1	15553	125184	1	Standard
⌊	**Cr**	**53**	**4.812**	ug/L	0.141	2	269	12864	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	27151	0	KED
|	**Cu**	**63**	**11.973**	ug/L	0.117	0	27	36813	1	KED
|	**Cu**	**65**	**11.559**	ug/L	0.283	2	13	17771	2	KED
|	**Zn**	**66**	**23.455**	ug/L	0.500	2	22	9728	1	KED
|	**Zn**	**67**	**22.482**	ug/L	0.560	2	3	1579	2	KED
⌊	**As**	**75**	**2.667**	ug/L	0.072	2	6	565	2	KED
	Y	**89**		ug/L			285357	424982	1	Standard
	Kr	**83**		ug/L			53	103	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7880	2	KED
|	**Cd**	**111**	**0.095**	ug/L	0.042	43	3	26	37	KED
⌊	**Cd**	**114**	**0.106**	ug/L	0.020	18	5	69	15	KED
⌈>	**In**	**115**		ug/L			420460	402296	2	Standard
⌊	**Ag**	**107**	**0.081**	ug/L	0.001	1	62	1158	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	667523	2	Standard
⌊	**Pb**	**208**	**6.754**	ug/L	0.112	1	75	303322	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-06
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:41:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56804	1	Standard
	Cl	**37**		ug/L			4373298	4059046	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	588587	1	Standard
|	**Cr**	**52**	**6.401**	ug/L	0.122	1	15553	151889	0	Standard
⌊	**Cr**	**53**	**6.278**	ug/L	0.090	1	269	15851	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26556	1	KED
|	**Cu**	**63**	**11.701**	ug/L	0.125	1	27	35186	1	KED
|	**Cu**	**65**	**11.603**	ug/L	0.232	2	13	17451	3	KED
|	**Zn**	**66**	**25.377**	ug/L	0.432	1	22	10295	2	KED
|	**Zn**	**67**	**24.536**	ug/L	1.090	4	3	1684	3	KED
⌊	**As**	**75**	**2.348**	ug/L	0.044	1	6	487	1	KED
	Y	**89**		ug/L			285357	387027	1	Standard
	Kr	**83**		ug/L			53	100	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	6923	3	KED
|	**Cd**	**111**	**0.102**	ug/L	0.033	32	3	25	26	KED
⌊	**Cd**	**114**	**0.102**	ug/L	0.015	15	5	58	14	KED
⌈>	**In**	**115**		ug/L			420460	409233	1	Standard
⌊	**Ag**	**107**	**0.074**	ug/L	0.003	3	62	1077	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	664330	1	Standard
⌊	**Pb**	**208**	**6.613**	ug/L	0.085	1	75	295621	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-07
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:45:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	60680	1	Standard
	Cl	**37**		ug/L			4373298	4035321	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	579426	4	Standard
|	**Cr**	**52**	**6.015**	ug/L	0.158	2	15553	141424	3	Standard
⌊	**Cr**	**53**	**5.985**	ug/L	0.047	0	269	14885	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	27245	0	KED
|	**Cu**	**63**	**11.035**	ug/L	0.049	0	27	34044	0	KED
|	**Cu**	**65**	**10.972**	ug/L	0.277	2	13	16927	1	KED
|	**Zn**	**66**	**23.826**	ug/L	0.801	3	22	9915	2	KED
|	**Zn**	**67**	**23.410**	ug/L	0.640	2	3	1649	2	KED
⌊	**As**	**75**	**2.593**	ug/L	0.137	5	6	551	4	KED
	Y	**89**		ug/L			285357	379005	2	Standard
	Kr	**83**		ug/L			53	79	22	Standard
⌈>	**In-1**	**115**		ug/L			7783	7739	3	KED
|	**Cd**	**111**	**0.071**	ug/L	0.002	3	3	20	2	KED
⌊	**Cd**	**114**	**0.099**	ug/L	0.034	34	5	63	29	KED
⌈>	**In**	**115**		ug/L			420460	398872	2	Standard
⌊	**Ag**	**107**	**0.075**	ug/L	0.004	4	62	1064	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	654145	4	Standard
⌊	**Pb**	**208**	**6.833**	ug/L	0.156	2	75	300594	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-08
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:49:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56095	1	Standard
	Cl	**37**		ug/L			4373298	4039382	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	593524	3	Standard
|	**Cr**	**52**	**6.557**	ug/L	0.201	3	15553	156402	2	Standard
⌊	**Cr**	**53**	**6.721**	ug/L	0.202	3	269	17077	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26847	2	KED
|	**Cu**	**63**	**12.300**	ug/L	0.048	0	27	37391	2	KED
|	**Cu**	**65**	**12.453**	ug/L	0.258	2	13	18928	1	KED
|	**Zn**	**66**	**25.064**	ug/L	0.397	1	22	10276	1	KED
|	**Zn**	**67**	**23.814**	ug/L	0.927	3	3	1653	3	KED
⌊	**As**	**75**	**2.853**	ug/L	0.083	2	6	596	2	KED
	Y	**89**		ug/L			285357	390968	2	Standard
	Kr	**83**		ug/L			53	91	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7682	3	KED
|	**Cd**	**111**	**0.083**	ug/L	0.010	11	3	23	10	KED
⌊	**Cd**	**114**	**0.097**	ug/L	0.002	2	5	62	4	KED
⌈>	**In**	**115**		ug/L			420460	407703	3	Standard
⌊	**Ag**	**107**	**0.059**	ug/L	0.005	8	62	874	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	654443	3	Standard
⌊	**Pb**	**208**	**6.672**	ug/L	0.168	2	75	293704	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-01
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:54:06

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54389	1	Standard
	Cl	**37**		ug/L			4373298	4146586	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	584545	0	Standard
|	**Cr**	**52**	**8.267**	ug/L	0.250	3	15553	189993	3	Standard
⌊	**Cr**	**53**	**8.266**	ug/L	0.050	0	269	20633	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26591	1	KED
|	**Cu**	**63**	**14.592**	ug/L	0.282	1	27	43935	2	KED
|	**Cu**	**65**	**14.409**	ug/L	0.106	0	13	21693	0	KED
|	**Zn**	**66**	**30.495**	ug/L	0.469	1	22	12380	1	KED
|	**Zn**	**67**	**30.572**	ug/L	0.175	0	3	2101	1	KED
⌊	**As**	**75**	**3.567**	ug/L	0.149	4	6	737	3	KED
	Y	**89**		ug/L			285357	382481	1	Standard
	Kr	**83**		ug/L			53	114	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7481	2	KED
|	**Cd**	**111**	**0.242**	ug/L	0.048	19	3	60	19	KED
⌊	**Cd**	**114**	**0.235**	ug/L	0.044	18	5	139	16	KED
⌈>	**In**	**115**		ug/L			420460	406173	1	Standard
⌊	**Ag**	**107**	**0.238**	ug/L	0.010	4	62	3321	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	653525	2	Standard
⌊	**Pb**	**208**	**11.402**	ug/L	0.210	1	75	501224	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-02
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:58:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56879	3	Standard
	Cl	**37**		ug/L			4373298	4074313	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	602582	1	Standard
|	**Cr**	**52**	**7.837**	ug/L	0.180	2	15553	186517	1	Standard
⌊	**Cr**	**53**	**7.826**	ug/L	0.153	1	269	20149	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	27005	2	KED
|	**Cu**	**63**	**15.025**	ug/L	0.291	1	27	45927	0	KED
|	**Cu**	**65**	**14.810**	ug/L	0.190	1	13	22642	1	KED
|	**Zn**	**66**	**29.168**	ug/L	0.059	0	22	12028	2	KED
|	**Zn**	**67**	**27.448**	ug/L	1.384	5	3	1915	3	KED
⌊	**As**	**75**	**3.653**	ug/L	0.051	1	6	767	3	KED
	Y	**89**		ug/L			285357	437650	1	Standard
	Kr	**83**		ug/L			53	102	3	Standard
⌈>	**In-1**	**115**		ug/L			7783	7893	2	KED
|	**Cd**	**111**	**0.237**	ug/L	0.035	14	3	62	15	KED
⌊	**Cd**	**114**	**0.223**	ug/L	0.020	8	5	139	6	KED
⌈>	**In**	**115**		ug/L			420460	410369	2	Standard
⌊	**Ag**	**107**	**0.142**	ug/L	0.004	2	62	2027	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	666554	0	Standard
⌊	**Pb**	**208**	**6.842**	ug/L	0.107	1	75	306881	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-03
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:02:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56229	0	Standard
	Cl	**37**		ug/L			4373298	4006597	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	580872	3	Standard
|	**Cr**	**52**	**7.519**	ug/L	0.129	1	15553	173192	3	Standard
⌊	**Cr**	**53**	**7.432**	ug/L	0.183	2	269	18457	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27450	1	KED
|	**Cu**	**63**	**16.587**	ug/L	0.225	1	27	51545	1	KED
|	**Cu**	**65**	**16.180**	ug/L	0.321	1	13	25142	1	KED
|	**Zn**	**66**	**33.754**	ug/L	0.623	1	22	14143	1	KED
|	**Zn**	**67**	**33.382**	ug/L	0.296	0	3	2368	0	KED
⌊	**As**	**75**	**3.150**	ug/L	0.107	3	6	673	3	KED
	Y	**89**		ug/L			285357	380605	1	Standard
	Kr	**83**		ug/L			53	103	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7655	1	KED
|	**Cd**	**111**	**0.155**	ug/L	0.015	9	3	40	9	KED
⌊	**Cd**	**114**	**0.141**	ug/L	0.006	4	5	87	4	KED
⌈>	**In**	**115**		ug/L			420460	404767	0	Standard
⌊	**Ag**	**107**	**0.130**	ug/L	0.003	2	62	1841	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	656289	2	Standard
⌊	**Pb**	**208**	**14.388**	ug/L	0.242	1	75	635403	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:07:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36339	0	Standard
	Cl	**37**		ug/L			4373298	3831932	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	495567	3	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.014	198	15553	14021	2	Standard
⌊	**Cr**	**53**	**-0.045**	ug/L	0.008	17	269	150	8	Standard
⌈>	**Ge**	**72**		ug/L			26846	25394	4	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	59	27	36	13	KED
|	**Cu**	**65**	**0.009**	ug/L	0.003	29	13	26	12	KED
|	**Zn**	**66**	**0.006**	ug/L	0.027	475	22	23	48	KED
|	**Zn**	**67**	**0.068**	ug/L	0.113	167	3	8	96	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	112	6	5	19	KED
	Y	**89**		ug/L			285357	265361	3	Standard
	Kr	**83**		ug/L			53	69	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7707	1	KED
|	**Cd**	**111**	**0.000**	ug/L	0.002	1559	3	3	15	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	95	5	3	48	KED
⌈>	**In**	**115**		ug/L			420460	390605	3	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.002	1056	62	56	36	Standard
⌈>	**Tb**	**159**		ug/L			655044	635599	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	3	75	134	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:11:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	35526	3	Standard
	Cl	**37**		ug/L			4373298	4224985	5	Standard
⌈>	**Sc**	**45**		ug/L			544532	479870	9	Standard
|	**Cr**	**52**	**50.916**	ug/L	2.183	4	15553	887365	5	Standard
⌊	**Cr**	**53**	**50.089**	ug/L	1.999	3	269	101173	6	Standard
⌈>	**Ge**	**72**		ug/L			26846	26435	2	KED
|	**Cu**	**63**	**50.109**	ug/L	0.178	0	27	149908	2	KED
|	**Cu**	**65**	**49.720**	ug/L	0.803	1	13	74410	4	KED
|	**Zn**	**66**	**52.399**	ug/L	0.353	0	22	21137	3	KED
|	**Zn**	**67**	**51.286**	ug/L	0.590	1	3	3502	3	KED
⌊	**As**	**75**	**50.454**	ug/L	0.887	1	6	10287	2	KED
	Y	**89**		ug/L			285357	248763	11	Standard
	Kr	**83**		ug/L			53	62	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	7471	3	KED
|	**Cd**	**111**	**50.358**	ug/L	1.400	2	3	11758	1	KED
⌊	**Cd**	**114**	**51.071**	ug/L	1.096	2	5	29000	1	KED
⌈>	**In**	**115**		ug/L			420460	379388	10	Standard
⌊	**Ag**	**107**	**50.865**	ug/L	2.691	5	62	648784	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	608103	11	Standard
⌊	**Pb**	**208**	**52.527**	ug/L	4.446	8	75	2135289	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:18:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36729	1	Standard
	Cl	**37**		ug/L			4373298	3919579	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	509496	1	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.030	1597	15553	14581	2	Standard
⌊	**Cr**	**53**	**-0.046**	ug/L	0.003	6	269	153	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	26377	1	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	48	27	36	10	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	30	13	21	10	KED
|	**Zn**	**66**	**-0.009**	ug/L	0.009	108	22	18	21	KED
|	**Zn**	**67**	**0.038**	ug/L	0.015	40	3	6	17	KED
⌊	**As**	**75**	**0.007**	ug/L	0.006	84	6	8	15	KED
	Y	**89**		ug/L			285357	255912	1	Standard
	Kr	**83**		ug/L			53	54	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7324	2	KED
|	**Cd**	**111**	**0.005**	ug/L	0.005	96	3	4	24	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.008	166	5	2	176	KED
⌈>	**In**	**115**		ug/L			420460	402465	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	19	62	80	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	630364	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	12	75	128	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:22:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	49652	0	Standard
	Cl	**37**		ug/L			4373298	4047237	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	531657	0	Standard
|	**Cr**	**52**	**0.045**	ug/L	0.024	54	15553	16043	3	Standard
⌊	**Cr**	**53**	**-0.035**	ug/L	0.003	8	269	184	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	26760	2	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	51	27	37	12	KED
|	**Cu**	**65**	**0.004**	ug/L	0.004	86	13	20	28	KED
|	**Zn**	**66**	**0.076**	ug/L	0.046	60	22	53	37	KED
|	**Zn**	**67**	**0.076**	ug/L	0.110	144	3	8	81	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.011	236	6	5	40	KED
	Y	**89**		ug/L			285357	283575	2	Standard
	Kr	**83**		ug/L			53	55	13	Standard
⌈>	**In-1**	**115**		ug/L			7783	7670	3	KED
|	**Cd**	**111**	**0.010**	ug/L	0.015	153	3	5	60	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	98	5	3	50	KED
⌈>	**In**	**115**		ug/L			420460	407471	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	38	62	82	11	Standard
⌈>	**Tb**	**159**		ug/L			655044	655656	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	10	75	311	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:27:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	43263	2	Standard
	Cl	**37**		ug/L			4373298	3942299	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	512874	2	Standard
|	**Cr**	**52**	**25.967**	ug/L	0.150	0	15553	492182	2	Standard
⌊	**Cr**	**53**	**25.451**	ug/L	0.393	1	269	55211	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26880	1	KED
|	**Cu**	**63**	**27.556**	ug/L	0.565	2	27	83818	0	KED
|	**Cu**	**65**	**27.604**	ug/L	0.686	2	13	41992	1	KED
|	**Zn**	**66**	**83.947**	ug/L	1.221	1	22	34422	3	KED
|	**Zn**	**67**	**78.106**	ug/L	0.884	1	3	5421	1	KED
⌊	**As**	**75**	**25.722**	ug/L	0.300	1	6	5336	2	KED
	Y	**89**		ug/L			285357	267401	3	Standard
	Kr	**83**		ug/L			53	59	6	Standard
⌈>	**In-1**	**115**		ug/L			7783	7470	4	KED
|	**Cd**	**111**	**26.312**	ug/L	0.414	1	3	6145	3	KED
⌊	**Cd**	**114**	**26.798**	ug/L	0.740	2	5	15212	2	KED
⌈>	**In**	**115**		ug/L			420460	398732	4	Standard
⌊	**Ag**	**107**	**26.234**	ug/L	0.772	2	62	352580	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	628792	2	Standard
⌊	**Pb**	**208**	**27.408**	ug/L	0.137	0	75	1159486	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-04
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:31:38

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53466	1	Standard
	Cl	**37**		ug/L			4373298	4025362	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	585019	3	Standard
|	**Cr**	**52**	**6.321**	ug/L	0.038	0	15553	149297	3	Standard
⌊	**Cr**	**53**	**6.320**	ug/L	0.082	1	269	15858	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	26891	0	KED
|	**Cu**	**63**	**14.874**	ug/L	0.275	1	27	45285	2	KED
|	**Cu**	**65**	**14.779**	ug/L	0.577	3	13	22500	3	KED
|	**Zn**	**66**	**31.637**	ug/L	0.079	0	22	12989	0	KED
|	**Zn**	**67**	**30.864**	ug/L	0.846	2	3	2145	2	KED
⌊	**As**	**75**	**3.145**	ug/L	0.038	1	6	658	1	KED
	Y	**89**		ug/L			285357	379820	4	Standard
	Kr	**83**		ug/L			53	95	2	Standard
⌈>	**In-1**	**115**		ug/L			7783	7578	0	KED
|	**Cd**	**111**	**0.137**	ug/L	0.011	7	3	35	6	KED
⌊	**Cd**	**114**	**0.154**	ug/L	0.004	2	5	94	2	KED
⌈>	**In**	**115**		ug/L			420460	400979	4	Standard
⌊	**Ag**	**107**	**0.114**	ug/L	0.006	5	62	1599	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	650205	1	Standard
⌊	**Pb**	**208**	**13.279**	ug/L	0.197	1	75	581033	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-05
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:35:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56806	1	Standard
	Cl	**37**		ug/L			4373298	4115784	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	620696	4	Standard
|	**Cr**	**52**	**6.940**	ug/L	0.137	1	15553	172114	2	Standard
⌊	**Cr**	**53**	**6.857**	ug/L	0.194	2	269	18217	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26952	2	KED
|	**Cu**	**63**	**16.011**	ug/L	0.051	0	27	48858	3	KED
|	**Cu**	**65**	**16.017**	ug/L	0.297	1	13	24438	2	KED
|	**Zn**	**66**	**31.845**	ug/L	0.188	0	22	13103	2	KED
|	**Zn**	**67**	**30.898**	ug/L	1.174	3	3	2154	6	KED
⌊	**As**	**75**	**2.995**	ug/L	0.067	2	6	628	0	KED
	Y	**89**		ug/L			285357	399458	0	Standard
	Kr	**83**		ug/L			53	83	5	Standard
⌈>	**In-1**	**115**		ug/L			7783	7773	2	KED
|	**Cd**	**111**	**0.128**	ug/L	0.009	7	3	34	7	KED
⌊	**Cd**	**114**	**0.121**	ug/L	0.016	13	5	77	10	KED
⌈>	**In**	**115**		ug/L			420460	408767	3	Standard
⌊	**Ag**	**107**	**0.116**	ug/L	0.007	6	62	1661	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	664814	0	Standard
⌊	**Pb**	**208**	**10.509**	ug/L	0.145	1	75	470122	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-06
Sample Dil Factor: 50
DEL
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:40:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	59828	1	Standard
	Cl	**37**		ug/L			4373298	4038712	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	598763	1	Standard
|	**Cr**	**52**	**7.257**	ug/L	0.101	1	15553	172897	1	Standard
⌊	**Cr**	**53**	**7.051**	ug/L	0.129	1	269	18071	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26975	2	KED
|	**Cu**	**63**	**14.796**	ug/L	0.045	0	27	45188	1	KED
|	**Cu**	**65**	**14.492**	ug/L	0.389	2	13	22130	2	KED
|	**Zn**	**66**	**26.811**	ug/L	0.380	1	22	11043	1	KED
|	**Zn**	**67**	**26.938**	ug/L	0.940	3	3	1878	3	KED
⌊	**As**	**75**	**2.868**	ug/L	0.119	4	6	603	2	KED
	Y	**89**		ug/L			285357	395776	1	Standard
	Kr	**83**		ug/L			53	109	20	Standard
⌈>	**In-1**	**115**		ug/L			7783	7439	0	KED
|	**Cd**	**111**	**0.068**	ug/L	0.015	22	3	19	18	KED
⌊	**Cd**	**114**	**0.086**	ug/L	0.010	12	5	53	10	KED
⌈>	**In**	**115**		ug/L			420460	407337	0	Standard
⌊	**Ag**	**107**	**0.092**	ug/L	0.008	8	62	1325	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	667255	1	Standard
⌊	**Pb**	**208**	**6.726**	ug/L	0.059	0	75	302000	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-07
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:44:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	59067	1	Standard
	Cl	**37**		ug/L			4373298	4029906	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	568459	1	Standard
|	**Cr**	**52**	**6.125**	ug/L	0.088	1	15553	141068	0	Standard
⌊	**Cr**	**53**	**6.104**	ug/L	0.018	0	269	14890	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26771	4	KED
|	**Cu**	**63**	**14.547**	ug/L	0.153	1	27	44080	3	KED
|	**Cu**	**65**	**14.386**	ug/L	0.199	1	13	21803	4	KED
|	**Zn**	**66**	**31.250**	ug/L	0.427	1	22	12770	3	KED
|	**Zn**	**67**	**31.464**	ug/L	0.589	1	3	2176	3	KED
⌊	**As**	**75**	**3.325**	ug/L	0.034	1	6	692	3	KED
	Y	**89**		ug/L			285357	380537	0	Standard
	Kr	**83**		ug/L			53	109	8	Standard
⌈>	**In-1**	**115**		ug/L			7783	7610	0	KED
|	**Cd**	**111**	**0.132**	ug/L	0.028	21	3	34	18	KED
⌊	**Cd**	**114**	**0.143**	ug/L	0.008	5	5	88	6	KED
⌈>	**In**	**115**		ug/L			420460	394964	1	Standard
⌊	**Ag**	**107**	**0.117**	ug/L	0.005	4	62	1623	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	643597	3	Standard
⌊	**Pb**	**208**	**10.807**	ug/L	0.265	2	75	467762	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-08
Sample Dil Factor: 50
DEL
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:49:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54798	1	Standard
	Cl	**37**		ug/L			4373298	3982832	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	551445	5	Standard
|	**Cr**	**52**	**6.150**	ug/L	0.052	0	15553	137308	5	Standard
⌊	**Cr**	**53**	**6.127**	ug/L	0.076	1	269	14498	5	Standard
⌈>	**Ge**	**72**		ug/L			26846	25958	1	KED
|	**Cu**	**63**	**13.542**	ug/L	0.064	0	27	39803	0	KED
|	**Cu**	**65**	**13.341**	ug/L	0.023	0	13	19609	1	KED
|	**Zn**	**66**	**27.645**	ug/L	0.439	1	22	10959	2	KED
|	**Zn**	**67**	**26.390**	ug/L	0.521	1	3	1771	2	KED
⌊	**As**	**75**	**3.032**	ug/L	0.134	4	6	613	3	KED
	Y	**89**		ug/L			285357	369798	2	Standard
	Kr	**83**		ug/L			53	106	28	Standard
⌈>	**In-1**	**115**		ug/L			7783	6932	2	KED
|	**Cd**	**111**	**0.139**	ug/L	0.025	18	3	33	18	KED
⌊	**Cd**	**114**	**0.128**	ug/L	0.004	3	5	72	3	KED
⌈>	**In**	**115**		ug/L			420460	384182	2	Standard
⌊	**Ag**	**107**	**0.105**	ug/L	0.005	4	62	1413	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	629662	5	Standard
⌊	**Pb**	**208**	**10.782**	ug/L	0.311	2	75	456311	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-09
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:53:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	51162	3	Standard
	Cl	**37**		ug/L			4373298	3817844	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	533813	3	Standard
|	**Cr**	**52**	**6.480**	ug/L	0.148	2	15553	139238	1	Standard
⌊	**Cr**	**53**	**6.428**	ug/L	0.158	2	269	14705	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25497	0	KED
|	**Cu**	**63**	**10.900**	ug/L	0.173	1	27	31475	2	KED
|	**Cu**	**65**	**10.705**	ug/L	0.126	1	13	15458	1	KED
|	**Zn**	**66**	**25.172**	ug/L	0.197	0	22	9803	0	KED
|	**Zn**	**67**	**24.199**	ug/L	1.199	4	3	1595	4	KED
⌊	**As**	**75**	**2.537**	ug/L	0.084	3	6	505	3	KED
	Y	**89**		ug/L			285357	349814	1	Standard
	Kr	**83**		ug/L			53	84	18	Standard
⌈>	**In-1**	**115**		ug/L			7783	7504	3	KED
|	**Cd**	**111**	**0.088**	ug/L	0.031	35	3	23	27	KED
⌊	**Cd**	**114**	**0.086**	ug/L	0.012	13	5	54	13	KED
⌈>	**In**	**115**		ug/L			420460	380063	2	Standard
⌊	**Ag**	**107**	**0.058**	ug/L	0.003	5	62	802	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	617271	3	Standard
⌊	**Pb**	**208**	**6.085**	ug/L	0.207	3	75	252609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0109-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:58:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53472	2	Standard
	Cl	**37**		ug/L			4373298	4251725	0	Standard
⌈>	**Sc**	**45**		ug/L			544532	525307	1	Standard
|	**Cr**	**52**	**0.664**	ug/L	0.007	1	15553	27504	2	Standard
⌊	**Cr**	**53**	**0.670**	ug/L	0.002	0	269	1742	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26076	1	KED
|	**Cu**	**63**	**0.847**	ug/L	0.005	0	27	2526	1	KED
|	**Cu**	**65**	**0.851**	ug/L	0.041	4	13	1269	6	KED
|	**Zn**	**66**	**90.466**	ug/L	1.574	1	22	35984	3	KED
|	**Zn**	**67**	**79.556**	ug/L	2.594	3	3	5355	2	KED
⌊	**As**	**75**	**0.179**	ug/L	0.022	12	6	42	9	KED
	Y	**89**		ug/L			285357	277517	2	Standard
	Kr	**83**		ug/L			53	52	24	Standard
⌈>	**In-1**	**115**		ug/L			7783	7716	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.006	42	3	6	20	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	152	5	8	56	KED
⌈>	**In**	**115**		ug/L			420460	408183	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	65	62	91	24	Standard
⌈>	**Tb**	**159**		ug/L			655044	651123	2	Standard
⌊	**Pb**	**208**	**0.209**	ug/L	0.007	3	75	9224	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:02:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36360	2	Standard
	Cl	**37**		ug/L			4373298	3997174	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	498419	2	Standard
|	**Cr**	**52**	**0.025**	ug/L	0.016	64	15553	14681	3	Standard
⌊	**Cr**	**53**	**-0.044**	ug/L	0.009	19	269	153	9	Standard
⌈>	**Ge**	**72**		ug/L			26846	26912	2	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	130	27	34	22	KED
|	**Cu**	**65**	**0.003**	ug/L	0.002	68	13	19	20	KED
|	**Zn**	**66**	**0.035**	ug/L	0.023	64	22	36	26	KED
|	**Zn**	**67**	**0.018**	ug/L	0.016	89	3	5	21	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	429	6	7	17	KED
	Y	**89**		ug/L			285357	261002	5	Standard
	Kr	**83**		ug/L			53	50	27	Standard
⌈>	**In-1**	**115**		ug/L			7783	7450	2	KED
|	**Cd**	**111**	**0.002**	ug/L	0.011	568	3	3	66	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	643	5	5	44	KED
⌈>	**In**	**115**		ug/L			420460	396586	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	174	62	50	28	Standard
⌈>	**Tb**	**159**		ug/L			655044	626483	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	15	75	102	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:06:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36672	0	Standard
	Cl	**37**		ug/L			4373298	4316291	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	511301	2	Standard
|	**Cr**	**52**	**49.012**	ug/L	0.382	0	15553	913204	2	Standard
⌊	**Cr**	**53**	**48.314**	ug/L	0.583	1	269	104271	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26405	2	KED
|	**Cu**	**63**	**50.561**	ug/L	0.825	1	27	151067	1	KED
|	**Cu**	**65**	**49.197**	ug/L	0.297	0	13	73529	2	KED
|	**Zn**	**66**	**51.137**	ug/L	0.663	1	22	20599	0	KED
|	**Zn**	**67**	**50.578**	ug/L	2.748	5	3	3449	5	KED
⌊	**As**	**75**	**50.144**	ug/L	0.397	0	6	10213	2	KED
	Y	**89**		ug/L			285357	272897	1	Standard
	Kr	**83**		ug/L			53	72	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	7333	3	KED
|	**Cd**	**111**	**49.644**	ug/L	0.938	1	3	11380	2	KED
⌊	**Cd**	**114**	**50.823**	ug/L	1.091	2	5	28329	2	KED
⌈>	**In**	**115**		ug/L			420460	393449	1	Standard
⌊	**Ag**	**107**	**50.091**	ug/L	1.157	2	62	664666	1	Standard
⌈>	**Tb**	**159**		ug/L			655044	641370	1	Standard
⌊	**Pb**	**208**	**50.311**	ug/L	0.479	0	75	2170796	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:13:50
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36826	3	Standard
	Cl	**37**		ug/L			4373298	3987550	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	504336	2	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.010	133	15553	14271	3	Standard
⌊	**Cr**	**53**	**-0.046**	ug/L	0.008	16	269	152	9	Standard
⌈>	**Ge**	**72**		ug/L			26846	27248	1	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	94	27	33	14	KED
|	**Cu**	**65**	**0.002**	ug/L	0.004	263	13	16	37	KED
|	**Zn**	**66**	**0.004**	ug/L	0.021	575	22	24	37	KED
|	**Zn**	**67**	**0.017**	ug/L	0.041	238	3	5	57	KED
⌊	**As**	**75**	**0.007**	ug/L	0.007	100	6	8	18	KED
	Y	**89**		ug/L			285357	264099	3	Standard
	Kr	**83**		ug/L			53	50	11	Standard
⌈>	**In-1**	**115**		ug/L			7783	7648	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.000	3	3	1		KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.004	71	5	2	94	KED
⌈>	**In**	**115**		ug/L			420460	398241	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.002	111	62	80	28	Standard
⌈>	**Tb**	**159**		ug/L			655044	630972	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	75	133	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0617-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, January 13, 2023 00:18:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	47064	3	Standard
	Cl	**37**		ug/L			4373298	4534693	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	549368	1	Standard
|	**Cr**	**52**	**0.237**	ug/L	0.016	6	15553	20368	3	Standard
⌊	**Cr**	**53**	**0.833**	ug/L	0.019	2	269	2197	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25886	1	KED
|	**Cu**	**63**	**1.130**	ug/L	0.037	3	27	3337	3	KED
|	**Cu**	**65**	**1.144**	ug/L	0.041	3	13	1689	4	KED
|	**Zn**	**66**	**7.873**	ug/L	0.158	2	22	3127	1	KED
|	**Zn**	**67**	**7.977**	ug/L	0.539	6	3	536	6	KED
⌊	**As**	**75**	**0.368**	ug/L	0.024	6	6	80	6	KED
	Y	**89**		ug/L			285357	274074	0	Standard
	Kr	**83**		ug/L			53	71	11	Standard
⌈>	**In-1**	**115**		ug/L			7783	7297	1	KED
|	**Cd**	**111**	**0.068**	ug/L	0.015	22	3	18	19	KED
⌊	**Cd**	**114**	**0.067**	ug/L	0.008	11	5	42	10	KED
⌈>	**In**	**115**		ug/L			420460	392136	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	46	62	94	18	Standard
⌈>	**Tb**	**159**		ug/L			655044	634971	3	Standard
⌊	**Pb**	**208**	**0.109**	ug/L	0.004	3	75	4746	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:22:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	72977	0	Standard
	Cl	37		ug/L			4373298	4143195	1	Standard
>	Sc	45		ug/L			544532	658125	3	Standard
	Cr	52	14.868	ug/L	0.120	0	15553	369611	2	Standard
	Cr	53	14.847	ug/L	0.145	0	269	41460	2	Standard
>	Ge	72		ug/L			26846	26175	1	KED
	Cu	63	39.536	ug/L	0.772	1	27	117105	1	KED
	Cu	65	39.264	ug/L	0.608	1	13	58163	0	KED
	Zn	66	80.232	ug/L	1.222	1	22	32028	1	KED
	Zn	67	75.426	ug/L	2.439	3	3	5098	2	KED
	As	75	7.887	ug/L	0.201	2	6	1597	1	KED
	Y	89		ug/L			285357	530306	3	Standard
	Kr	83		ug/L			53	178	10	Standard
>	In-1	115		ug/L			7783	7541	3	KED
	Cd	111	0.356	ug/L	0.006	1	3	87	3	KED
	Cd	114	0.358	ug/L	0.018	4	5	210	1	KED
>	In	115		ug/L			420460	385122	2	Standard
	Ag	107	0.369	ug/L	0.001	0	62	4846	2	Standard
>	Tb	159		ug/L			655044	642915	0	Standard
	Pb	208	30.676	ug/L	0.698	2	75	1326826	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:26:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	71590	4	Standard
	Cl	37		ug/L			4373298	4069742	2	Standard
⌈>	Sc	45		ug/L			544532	670780	2	Standard
|	Cr	52	15.483	ug/L	0.553	3	15553	391494	3	Standard
⌊	Cr	53	15.301	ug/L	0.300	1	269	43543	2	Standard
⌈>	Ge	72		ug/L			26846	26063	1	KED
|	Cu	63	34.663	ug/L	0.509	1	27	102253	2	KED
|	Cu	65	34.424	ug/L	0.643	1	13	50775	1	KED
|	Zn	66	71.864	ug/L	1.503	2	22	28564	1	KED
|	Zn	67	69.749	ug/L	1.463	2	3	4694	1	KED
⌊	As	75	6.920	ug/L	0.216	3	6	1396	3	KED
	Y	89		ug/L			285357	560482	2	Standard
	Kr	83		ug/L			53	203	15	Standard
⌈>	In-1	115		ug/L			7783	7444	2	KED
|	Cd	111	0.233	ug/L	0.027	11	3	57	10	KED
⌊	Cd	114	0.247	ug/L	0.022	8	5	145	8	KED
⌈>	In	115		ug/L			420460	389388	1	Standard
⌊	Ag	107	0.206	ug/L	0.003	1	62	2765	2	Standard
⌈>	Tb	159		ug/L			655044	650082	2	Standard
⌊	Pb	208	18.511	ug/L	0.362	1	75	809383	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:31:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	66749	1	Standard
	Cl	37		ug/L			4373298	4230078	1	Standard
>	Sc	45		ug/L			544532	673159	1	Standard
	Cr	52	17.045	ug/L	0.208	1	15553	430687	2	Standard
	Cr	53	17.143	ug/L	0.269	1	269	48915	1	Standard
>	Ge	72		ug/L			26846	25002	1	KED
	Cu	63	49.632	ug/L	0.630	1	27	140441	1	KED
	Cu	65	50.140	ug/L	1.284	2	13	70946	2	KED
	Zn	66	92.130	ug/L	0.417	0	22	35130	1	KED
	Zn	67	90.547	ug/L	1.009	1	3	5846	2	KED
	As	75	8.720	ug/L	0.228	2	6	1686	2	KED
	Y	89		ug/L			285357	553448	1	Standard
	Kr	83		ug/L			53	200	6	Standard
>	In-1	115		ug/L			7783	6861	1	KED
	Cd	111	0.443	ug/L	0.016	3	3	98	4	KED
	Cd	114	0.386	ug/L	0.022	5	5	206	6	KED
>	In	115		ug/L			420460	395930	2	Standard
	Ag	107	0.382	ug/L	0.012	3	62	5162	3	Standard
>	Tb	159		ug/L			655044	649479	2	Standard
	Pb	208	37.301	ug/L	0.941	2	75	1629254	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:35:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	72845	1	Standard
	Cl	37		ug/L			4373298	4164828	2	Standard
>	Sc	45		ug/L			544532	657705	1	Standard
	Cr	52	15.822	ug/L	0.092	0	15553	391904	0	Standard
	Cr	53	15.461	ug/L	0.038	0	269	43139	1	Standard
>	Ge	72		ug/L			26846	25421	1	KED
	Cu	63	37.476	ug/L	0.659	1	27	107808	0	KED
	Cu	65	37.760	ug/L	0.522	1	13	54324	0	KED
	Zn	66	70.565	ug/L	2.072	2	22	27357	2	KED
	Zn	67	68.488	ug/L	3.076	4	3	4494	2	KED
	As	75	7.334	ug/L	0.336	4	6	1443	3	KED
	Y	89		ug/L			285357	545124	1	Standard
	Kr	83		ug/L			53	198	4	Standard
>	In-1	115		ug/L			7783	6778	2	KED
	Cd	111	0.216	ug/L	0.050	23	3	48	18	KED
	Cd	114	0.250	ug/L	0.020	8	5	133	5	KED
>	In	115		ug/L			420460	383859	0	Standard
	Ag	107	0.173	ug/L	0.004	2	62	2292	3	Standard
>	Tb	159		ug/L			655044	643852	0	Standard
	Pb	208	18.395	ug/L	0.363	1	75	796810	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:39:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	67396	2	Standard
	Cl	37		ug/L			4373298	4006597	0	Standard
⌈>	Sc	45		ug/L			544532	643355	0	Standard
|	Cr	52	16.637	ug/L	0.076	0	15553	402189	1	Standard
⌊	Cr	53	16.616	ug/L	0.097	0	269	45327	1	Standard
⌈>	Ge	72		ug/L			26846	26711	1	KED
|	Cu	63	40.962	ug/L	1.045	2	27	123822	2	KED
|	Cu	65	40.188	ug/L	0.810	2	13	60753	2	KED
|	Zn	66	73.945	ug/L	0.940	1	22	30131	2	KED
|	Zn	67	74.393	ug/L	3.497	4	3	5133	5	KED
⌊	As	75	7.826	ug/L	0.136	1	6	1618	1	KED
	Y	89		ug/L			285357	532549	0	Standard
	Kr	83		ug/L			53	182	7	Standard
⌈>	In-1	115		ug/L			7783	7533	3	KED
|	Cd	111	0.313	ug/L	0.047	14	3	77	15	KED
⌊	Cd	114	0.351	ug/L	0.060	17	5	206	17	KED
⌈>	In	115		ug/L			420460	380510	2	Standard
⌊	Ag	107	0.296	ug/L	0.011	3	62	3851	2	Standard
⌈>	Tb	159		ug/L			655044	635723	2	Standard
⌊	Pb	208	23.069	ug/L	0.369	1	75	986534	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:44:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	70639	2	Standard
	Cl	37		ug/L			4373298	4019679	1	Standard
>	Sc	45		ug/L			544532	632138	1	Standard
	Cr	52	19.085	ug/L	0.190	0	15553	450607	1	Standard
	Cr	53	18.801	ug/L	0.116	0	269	50348	1	Standard
>	Ge	72		ug/L			26846	26652	1	KED
	Cu	63	37.555	ug/L	0.360	0	27	113273	1	KED
	Cu	65	37.503	ug/L	0.703	1	13	56561	1	KED
	Zn	66	75.292	ug/L	1.421	1	22	30613	3	KED
	Zn	67	73.483	ug/L	0.956	1	3	5058	3	KED
	As	75	8.520	ug/L	0.158	1	6	1756	0	KED
	Y	89		ug/L			285357	537396	2	Standard
	Kr	83		ug/L			53	187	11	Standard
>	In-1	115		ug/L			7783	7214	1	KED
	Cd	111	0.773	ug/L	0.040	5	3	177	6	KED
	Cd	114	0.742	ug/L	0.047	6	5	412	6	KED
>	In	115		ug/L			420460	362560	2	Standard
	Ag	107	0.597	ug/L	0.019	3	62	7351	0	Standard
>	Tb	159		ug/L			655044	610940	2	Standard
	Pb	208	23.192	ug/L	0.561	2	75	952953	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:48:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	69329	3	Standard
	Cl	37		ug/L			4373298	4096844	2	Standard
>	Sc	45		ug/L			544532	655849	0	Standard
	Cr	52	14.483	ug/L	0.420	2	15553	359271	1	Standard
	Cr	53	14.667	ug/L	0.379	2	269	40821	1	Standard
>	Ge	72		ug/L			26846	25212	1	KED
	Cu	63	28.624	ug/L	0.432	1	27	81679	1	KED
	Cu	65	28.235	ug/L	0.782	2	13	40290	2	KED
	Zn	66	59.738	ug/L	2.456	4	22	22972	3	KED
	Zn	67	59.815	ug/L	0.816	1	3	3895	1	KED
	As	75	7.277	ug/L	0.157	2	6	1420	2	KED
	Y	89		ug/L			285357	517667	1	Standard
	Kr	83		ug/L			53	173	12	Standard
>	In-1	115		ug/L			7783	7219	3	KED
	Cd	111	0.185	ug/L	0.043	23	3	45	23	KED
	Cd	114	0.199	ug/L	0.020	10	5	114	12	KED
>	In	115		ug/L			420460	386149	1	Standard
	Ag	107	0.141	ug/L	0.005	3	62	1897	4	Standard
>	Tb	159		ug/L			655044	634912	3	Standard
	Pb	208	13.707	ug/L	0.381	2	75	585256	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0114-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:53:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	62477	0	Standard
	Cl	**37**		ug/L			4373298	4204356	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	610805	2	Standard
|	**Cr**	**52**	**24.594**	ug/L	0.502	2	15553	555950	1	Standard
⌊	**Cr**	**53**	**24.467**	ug/L	0.478	1	269	63226	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	26862	2	KED
|	**Cu**	**63**	**14.099**	ug/L	0.185	1	27	42872	1	KED
|	**Cu**	**65**	**13.970**	ug/L	0.214	1	13	21241	1	KED
|	**Zn**	**66**	**28.106**	ug/L	1.284	4	22	11520	2	KED
|	**Zn**	**67**	**26.574**	ug/L	0.438	1	3	1846	4	KED
⌊	**As**	**75**	**2.921**	ug/L	0.062	2	6	611	1	KED
	Y	**89**		ug/L			285357	439271	1	Standard
	Kr	**83**		ug/L			53	107	17	Standard
⌈>	**In-1**	**115**		ug/L			7783	6728	7	KED
|	**Cd**	**111**	**1.831**	ug/L	0.103	5	3	387	5	KED
⌊	**Cd**	**114**	**1.884**	ug/L	0.090	4	5	966	3	KED
⌈>	**In**	**115**		ug/L			420460	392864	0	Standard
⌊	**Ag**	**107**	**0.077**	ug/L	0.002	2	62	1085	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	639905	0	Standard
⌊	**Pb**	**208**	**2.081**	ug/L	0.034	1	75	89673	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:57:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	38762	1	Standard
	Cl	**37**		ug/L			4373298	4156920	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	530557	2	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.034	203	15553	14829	4	Standard
⌊	**Cr**	**53**	**-0.051**	ug/L	0.007	13	269	148	10	Standard
⌈>	**Ge**	**72**		ug/L			26846	26467	1	KED
|	**Cu**	**63**	**0.005**	ug/L	0.001	26	27	43	11	KED
|	**Cu**	**65**	**0.002**	ug/L	0.001	50	13	17	11	KED
|	**Zn**	**66**	**0.001**	ug/L	0.022	2190	22	22	38	KED
|	**Zn**	**67**	**0.028**	ug/L	0.054	192	3	5	66	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	448	6	6	15	KED
	Y	**89**		ug/L			285357	274458	1	Standard
	Kr	**83**		ug/L			53	43	24	Standard
⌈>	**In-1**	**115**		ug/L			7783	7291	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.011	486	3	3	66	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.005	104	5	2	118	KED
⌈>	**In**	**115**		ug/L			420460	403342	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	73	62	53	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	634978	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	29	75	119	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:01:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36941	2	Standard
	Cl	**37**		ug/L			4373298	4241056	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	491854	1	Standard
|	**Cr**	**52**	**48.909**	ug/L	0.365	0	15553	876567	1	Standard
⌊	**Cr**	**53**	**48.932**	ug/L	0.186	0	269	101579	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	27005	1	KED
|	**Cu**	**63**	**50.299**	ug/L	0.608	1	27	153705	0	KED
|	**Cu**	**65**	**50.446**	ug/L	1.057	2	13	77085	0	KED
|	**Zn**	**66**	**51.460**	ug/L	1.028	1	22	21201	1	KED
|	**Zn**	**67**	**49.722**	ug/L	3.731	7	3	3466	6	KED
⌊	**As**	**75**	**50.507**	ug/L	0.836	1	6	10519	0	KED
	Y	**89**		ug/L			285357	258083	3	Standard
	Kr	**83**		ug/L			53	61	11	Standard
⌈>	**In-1**	**115**		ug/L			7783	7585	4	KED
|	**Cd**	**111**	**49.198**	ug/L	1.406	2	3	11662	2	KED
⌊	**Cd**	**114**	**49.843**	ug/L	1.539	3	5	28724	1	KED
⌈>	**In**	**115**		ug/L			420460	374286	2	Standard
⌊	**Ag**	**107**	**50.397**	ug/L	1.078	2	62	636219	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	611327	2	Standard
⌊	**Pb**	**208**	**51.361**	ug/L	1.233	2	75	2111582	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:09:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37649	1	Standard
	Cl	**37**		ug/L			4373298	3929096	2	Standard
⎡>	**Sc**	**45**		ug/L			544532	490369	3	Standard
⎢	**Cr**	**52**	**0.013**	ug/L	0.020	157	15553	14225	2	Standard
⎣	**Cr**	**53**	**-0.048**	ug/L	0.006	12	269	143	5	Standard
⎡>	**Ge**	**72**		ug/L			26846	25652	3	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.002	181	27	29	16	KED
⎢	**Cu**	**65**	**0.001**	ug/L	0.002	294	13	14	27	KED
⎢	**Zn**	**66**	**-0.011**	ug/L	0.018	167	22	17	44	KED
⎢	**Zn**	**67**	**-0.017**	ug/L	0.015	90	3	2	43	KED
⎣	**As**	**75**	**0.010**	ug/L	0.017	164	6	8	40	KED
	Y	**89**		ug/L			285357	254848	2	Standard
	Kr	**83**		ug/L			53	57	13	Standard
⎡>	**In-1**	**115**		ug/L			7783	7394	1	KED
⎢	**Cd**	**111**	**-0.001**	ug/L	0.005	705	3	3	34	KED
⎣	**Cd**	**114**	**0.004**	ug/L	0.009	238	5	7	67	KED
⎡>	**In**	**115**		ug/L			420460	384427	2	Standard
⎣	**Ag**	**107**	**0.002**	ug/L	0.001	50	62	86	15	Standard
⎡>	**Tb**	**159**		ug/L			655044	608130	1	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	8	75	142	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:13:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				37442	0	Standard
	Cl	**37**		ug/L				3935892	2	Standard
⎡>	**Sc**	**45**		ug/L				508823	2	Standard
⎢	**Cr**	**52**		ug/L				14729	6	Standard
⎣	**Cr**	**53**		ug/L				130	7	Standard
⎡>	**Ge**	**72**		ug/L				25706	1	KED
⎢	**Cu**	**63**		ug/L				35	27	KED
⎢	**Cu**	**65**		ug/L				25	8	KED
⎢	**Zn**	**66**		ug/L				24	27	KED
⎢	**Zn**	**67**		ug/L				1	100	KED
⎣	**As**	**75**		ug/L				7	31	KED
	Y	**89**		ug/L				261919	1	Standard
	Kr	**83**		ug/L				60	21	Standard
⎡>	**In-1**	**115**		ug/L				7141	2	KED
⎢	**Cd**	**111**		ug/L				2	88	KED
⎣	**Cd**	**114**		ug/L				3	53	KED
⎡>	**In**	**115**		ug/L				388851	1	Standard
⎣	**Ag**	**107**		ug/L				59	17	Standard
⎡>	**Tb**	**159**		ug/L				618478	3	Standard
⎣	**Pb**	**208**		ug/L				110	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:17:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36715	1	Standard
	Cl	**37**		ug/L			3935892	4413335	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	510308	0	Standard
|	**Cr**	**52**	**48.998**	ug/L	0.866	1	14729	911310	1	Standard
⌊	**Cr**	**53**	**48.576**	ug/L	0.667	1	130	104493	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	26154	1	KED
|	**Cu**	**63**	**50.235**	ug/L	0.586	1	35	148687	1	KED
|	**Cu**	**65**	**51.149**	ug/L	0.650	1	25	75722	1	KED
|	**Zn**	**66**	**50.229**	ug/L	1.046	2	24	20045	0	KED
|	**Zn**	**67**	**51.080**	ug/L	1.527	2	1	3448	1	KED
⌊	**As**	**75**	**49.972**	ug/L	1.219	2	7	10080	0	KED
	Y	**89**		ug/L			261919	270031	2	Standard
	Kr	**83**		ug/L			60	61	42	Standard
⌈>	**In-1**	**115**		ug/L			7141	7337	2	KED
|	**Cd**	**111**	**49.964**	ug/L	1.111	2	2	11461	0	KED
⌊	**Cd**	**114**	**50.588**	ug/L	1.636	3	3	28214	2	KED
⌈>	**In**	**115**		ug/L			388851	385244	0	Standard
⌊	**Ag**	**107**	**49.982**	ug/L	0.499	0	59	649505	0	Standard
⌈>	**Tb**	**159**		ug/L			618478	624778	1	Standard
⌊	**Pb**	**208**	**51.071**	ug/L	0.732	1	110	2146504	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:24:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36949	4	Standard
	Cl	**37**		ug/L			3935892	3972336	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	499059	2	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.023	3783	14729	14453	2	Standard
⌊	**Cr**	**53**	**0.002**	ug/L	0.007	399	130	132	13	Standard
⌈>	**Ge**	**72**		ug/L			25706	25513	0	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.004	473	35	33	32	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.002	34	25	15	21	KED
|	**Zn**	**66**	**-0.017**	ug/L	0.008	43	24	17	16	KED
|	**Zn**	**67**	**0.058**	ug/L	0.050	85	1	5	57	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	118	7	6	16	KED
	Y	**89**		ug/L			261919	263928	5	Standard
	Kr	**83**		ug/L			60	60	10	Standard
⌈>	**In-1**	**115**		ug/L			7141	7415	4	KED
|	**Cd**	**111**	**0.009**	ug/L	0.005	60	2	5	28	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.006	1350	3	3	90	KED
⌈>	**In**	**115**		ug/L			388851	394530	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	21	59	92	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	617557	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	102	110	136	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0589-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:29:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38442	0	Standard
	Cl	**37**		ug/L			3935892	4802930	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	493824	0	Standard
|	**Cr**	**52**	**0.068**	ug/L	0.012	18	14729	15499	1	Standard
⌊	**Cr**	**53**	**1.444**	ug/L	0.008	0	130	3129	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	26269	1	KED
|	**Cu**	**63**	**5.134**	ug/L	0.089	1	35	15294	1	KED
|	**Cu**	**65**	**5.195**	ug/L	0.120	2	25	7748	2	KED
|	**Zn**	**66**	**100.778**	ug/L	1.264	1	24	40372	0	KED
|	**Zn**	**67**	**90.197**	ug/L	1.362	1	1	6117	2	KED
⌊	**As**	**75**	**0.126**	ug/L	0.009	7	7	33	4	KED
	Y	**89**		ug/L			261919	251499	0	Standard
	Kr	**83**		ug/L			60	52	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7206	2	KED
|	**Cd**	**111**	**0.181**	ug/L	0.047	25	2	43	26	KED
⌊	**Cd**	**114**	**0.135**	ug/L	0.007	5	3	77	4	KED
⌈>	**In**	**115**		ug/L			388851	380307	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	168	59	63	12	Standard
⌈>	**Tb**	**159**		ug/L			618478	607704	2	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.001	5	110	991	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0599-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:33:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	42049	1	Standard
	Cl	**37**		ug/L			3935892	4122124	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	522443	2	Standard
|	**Cr**	**52**	**0.531**	ug/L	0.008	1	14729	25077	1	Standard
⌊	**Cr**	**53**	**0.573**	ug/L	0.017	2	130	1393	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	26189	1	KED
|	**Cu**	**63**	**60.624**	ug/L	0.446	0	35	179671	0	KED
|	**Cu**	**65**	**60.455**	ug/L	0.625	1	25	89619	2	KED
|	**Zn**	**66**	**11.494**	ug/L	0.043	0	24	4613	1	KED
|	**Zn**	**67**	**11.084**	ug/L	0.266	2	1	751	3	KED
⌊	**As**	**75**	**0.173**	ug/L	0.014	7	7	42	6	KED
	Y	**89**		ug/L			261919	277232	1	Standard
	Kr	**83**		ug/L			60	50	4	Standard
⌈>	**In-1**	**115**		ug/L			7141	7502	2	KED
|	**Cd**	**111**	**0.134**	ug/L	0.011	8	2	34	5	KED
⌊	**Cd**	**114**	**0.141**	ug/L	0.011	7	3	84	7	KED
⌈>	**In**	**115**		ug/L			388851	400662	2	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	16	59	153	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	632816	2	Standard
⌊	**Pb**	**208**	**1.137**	ug/L	0.004	0	110	48514	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0598-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:37:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	44723	2	Standard
	Cl	**37**		ug/L			3935892	4942584	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	560897	2	Standard
|	**Cr**	**52**	**0.224**	ug/L	0.024	10	14729	20737	1	Standard
⌊	**Cr**	**53**	**0.823**	ug/L	0.014	1	130	2086	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	24925	1	KED
|	**Cu**	**63**	**0.273**	ug/L	0.010	3	35	804	2	KED
|	**Cu**	**65**	**0.282**	ug/L	0.021	7	25	422	8	KED
|	**Zn**	**66**	**44.377**	ug/L	0.059	0	24	16882	0	KED
|	**Zn**	**67**	**39.983**	ug/L	1.568	3	1	2574	4	KED
⌊	**As**	**75**	**0.154**	ug/L	0.009	5	7	36	5	KED
	Y	**89**		ug/L			261919	273005	2	Standard
	Kr	**83**		ug/L			60	57	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	7166	1	KED
|	**Cd**	**111**	**3.119**	ug/L	0.084	2	2	701	1	KED
⌊	**Cd**	**114**	**3.019**	ug/L	0.015	0	3	1648	1	KED
⌈>	**In**	**115**		ug/L			388851	384801	0	Standard
⌊	**Ag**	**107**	**0.013**	ug/L	0.023	179	59	223	131	Standard
⌈>	**Tb**	**159**		ug/L			618478	628686	2	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	7	110	487	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0234-DUP2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:42:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45443	2	Standard
	Cl	**37**		ug/L			3935892	5098913	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	566549	1	Standard
|	**Cr**	**52**	**0.202**	ug/L	0.023	11	14729	20504	3	Standard
⌊	**Cr**	**53**	**0.869**	ug/L	0.021	2	130	2218	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	24480	1	KED
|	**Cu**	**63**	**0.560**	ug/L	0.007	1	35	1585	2	KED
|	**Cu**	**65**	**0.541**	ug/L	0.025	4	25	773	4	KED
|	**Zn**	**66**	**44.532**	ug/L	1.228	2	24	16636	1	KED
|	**Zn**	**67**	**38.883**	ug/L	1.015	2	1	2458	3	KED
⌊	**As**	**75**	**0.129**	ug/L	0.032	25	7	31	21	KED
	Y	**89**		ug/L			261919	276551	1	Standard
	Kr	**83**		ug/L			60	55	15	Standard
⌈>	**In-1**	**115**		ug/L			7141	6738	4	KED
|	**Cd**	**111**	**2.950**	ug/L	0.224	7	2	622	3	KED
⌊	**Cd**	**114**	**3.082**	ug/L	0.037	1	3	1582	2	KED
⌈>	**In**	**115**		ug/L			388851	388616	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	78	59	50	15	Standard
⌈>	**Tb**	**159**		ug/L			618478	614278	0	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.001	2	110	1179	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0234-MS2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:46:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	46579	3	Standard
	Cl	**37**		ug/L			3935892	5205995	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	585842	1	Standard
|	**Cr**	**52**	**4.985**	ug/L	0.072	1	14729	121680	1	Standard
⌊	**Cr**	**53**	**5.605**	ug/L	0.089	1	130	13976	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	25944	2	KED
|	**Cu**	**63**	**5.524**	ug/L	0.091	1	35	16251	3	KED
|	**Cu**	**65**	**5.461**	ug/L	0.106	1	25	8040	1	KED
|	**Zn**	**66**	**61.173**	ug/L	0.705	1	24	24214	2	KED
|	**Zn**	**67**	**55.774**	ug/L	1.116	2	1	3736	3	KED
⌊	**As**	**75**	**5.494**	ug/L	0.056	1	7	1106	1	KED
	Y	**89**		ug/L			261919	282433	0	Standard
	Kr	**83**		ug/L			60	59	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	6981	2	KED
|	**Cd**	**111**	**8.325**	ug/L	0.225	2	2	1819	0	KED
⌊	**Cd**	**114**	**8.119**	ug/L	0.183	2	3	4311	1	KED
⌈>	**In**	**115**		ug/L			388851	392445	0	Standard
⌊	**Ag**	**107**	**5.044**	ug/L	0.045	0	59	66829	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	623053	1	Standard
⌊	**Pb**	**208**	**5.460**	ug/L	0.102	1	110	228934	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:51:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45653	2	Standard
	Cl	**37**		ug/L			3935892	4503757	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	594232	3	Standard
|	**Cr**	**52**	**11.014**	ug/L	0.173	1	14729	251847	3	Standard
⌊	**Cr**	**53**	**11.069**	ug/L	0.174	1	130	27837	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	27333	1	KED
|	**Cu**	**63**	**5.728**	ug/L	0.189	3	35	17753	3	KED
|	**Cu**	**65**	**5.616**	ug/L	0.116	2	25	8712	1	KED
|	**Zn**	**66**	**23.642**	ug/L	0.613	2	24	9874	2	KED
|	**Zn**	**67**	**22.033**	ug/L	0.709	3	1	1555	1	KED
⌊	**As**	**75**	**3.152**	ug/L	0.082	2	7	671	1	KED
	Y	**89**		ug/L			261919	382320	3	Standard
	Kr	**83**		ug/L			60	80	14	Standard
⌈>	**In-1**	**115**		ug/L			7141	7074	2	KED
|	**Cd**	**111**	**0.275**	ug/L	0.034	12	2	63	13	KED
⌊	**Cd**	**114**	**0.241**	ug/L	0.028	11	3	133	9	KED
⌈>	**In**	**115**		ug/L			388851	394194	3	Standard
⌊	**Ag**	**107**	**0.038**	ug/L	0.001	1	59	563	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	631270	2	Standard
⌊	**Pb**	**208**	**3.484**	ug/L	0.035	0	110	148050	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:55:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	59254	0	Standard
	Cl	**37**		ug/L			3935892	4442140	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	585555	5	Standard
|	**Cr**	**52**	**12.213**	ug/L	0.408	3	14729	273094	1	Standard
⌊	**Cr**	**53**	**12.236**	ug/L	0.368	3	130	30286	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	25367	3	KED
|	**Cu**	**63**	**5.747**	ug/L	0.235	4	35	16518	2	KED
|	**Cu**	**65**	**5.638**	ug/L	0.208	3	25	8113	2	KED
|	**Zn**	**66**	**24.602**	ug/L	1.108	4	24	9528	1	KED
|	**Zn**	**67**	**22.676**	ug/L	2.435	10	1	1483	7	KED
⌊	**As**	**75**	**3.414**	ug/L	0.035	1	7	674	2	KED
	Y	**89**		ug/L			261919	388054	3	Standard
	Kr	**83**		ug/L			60	87	11	Standard
⌈>	**In-1**	**115**		ug/L			7141	7029	1	KED
|	**Cd**	**111**	**0.300**	ug/L	0.042	13	2	68	12	KED
⌊	**Cd**	**114**	**0.233**	ug/L	0.021	9	3	128	6	KED
⌈>	**In**	**115**		ug/L			388851	389091	3	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	6	59	511	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	626607	4	Standard
⌊	**Pb**	**208**	**3.645**	ug/L	0.067	1	110	153710	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:59:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	50551	0	Standard
	Cl	**37**		ug/L			3935892	4268292	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	537994	10	Standard
|	**Cr**	**52**	**35.889**	ug/L	2.722	7	14729	704248	3	Standard
⌊	**Cr**	**53**	**35.125**	ug/L	2.064	5	130	79387	5	Standard
⌈>	**Ge**	**72**		ug/L			25706	26474	1	KED
|	**Cu**	**63**	**32.363**	ug/L	0.330	1	35	96987	2	KED
|	**Cu**	**65**	**31.680**	ug/L	0.761	2	25	47492	3	KED
|	**Zn**	**66**	**108.063**	ug/L	1.936	1	24	43635	2	KED
|	**Zn**	**67**	**102.906**	ug/L	0.762	0	1	7032	1	KED
⌊	**As**	**75**	**28.220**	ug/L	0.940	3	7	5767	4	KED
	Y	**89**		ug/L			261919	363356	7	Standard
	Kr	**83**		ug/L			60	78	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	6765	2	KED
|	**Cd**	**111**	**25.993**	ug/L	1.007	3	2	5496	1	KED
⌊	**Cd**	**114**	**26.533**	ug/L	0.741	2	3	13644	0	KED
⌈>	**In**	**115**		ug/L			388851	368164	8	Standard
⌊	**Ag**	**107**	**27.136**	ug/L	0.954	3	59	336461	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	601491	9	Standard
⌊	**Pb**	**208**	**31.698**	ug/L	2.239	7	110	1277123	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 02:04:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	59088	0	Standard
	Cl	**37**		ug/L			3935892	4472030	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	595374	4	Standard
|	**Cr**	**52**	**34.707**	ug/L	1.599	4	14729	757228	0	Standard
⌊	**Cr**	**53**	**34.439**	ug/L	0.681	1	130	86436	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	25650	1	KED
|	**Cu**	**63**	**32.314**	ug/L	1.101	3	35	93796	2	KED
|	**Cu**	**65**	**31.444**	ug/L	0.588	1	25	45656	0	KED
|	**Zn**	**66**	**106.965**	ug/L	3.418	3	24	41833	2	KED
|	**Zn**	**67**	**98.850**	ug/L	3.877	3	1	6543	2	KED
⌊	**As**	**75**	**28.502**	ug/L	0.393	1	7	5642	0	KED
	Y	**89**		ug/L			261919	386735	2	Standard
	Kr	**83**		ug/L			60	100	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7217	1	KED
|	**Cd**	**111**	**26.235**	ug/L	0.146	0	2	5922	1	KED
⌊	**Cd**	**114**	**26.057**	ug/L	0.397	1	3	14300	0	KED
⌈>	**In**	**115**		ug/L			388851	400037	0	Standard
⌊	**Ag**	**107**	**25.145**	ug/L	0.334	1	59	339354	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	639732	2	Standard
⌊	**Pb**	**208**	**30.810**	ug/L	0.715	2	110	1325751	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:08:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37579	2	Standard
	Cl	**37**		ug/L			3935892	4226620	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	508932	3	Standard
|	**Cr**	**52**	**-0.001**	ug/L	0.029	1980	14729	14695	1	Standard
⌊	**Cr**	**53**	**0.015**	ug/L	0.006	37	130	162	8	Standard
⌈>	**Ge**	**72**		ug/L			25706	26176	1	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	94	35	40	9	KED
|	**Cu**	**65**	**0.004**	ug/L	0.002	50	25	32	10	KED
|	**Zn**	**66**	**0.029**	ug/L	0.031	105	24	36	33	KED
|	**Zn**	**67**	**0.047**	ug/L	0.044	93	1	5	57	KED
⌊	**As**	**75**	**0.003**	ug/L	0.009	354	7	8	21	KED
	Y	**89**		ug/L			261919	267714	2	Standard
	Kr	**83**		ug/L			60	48	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7055	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.009	336	2	2	89	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.003	97	3	1	107	KED
⌈>	**In**	**115**		ug/L			388851	391615	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	9	59	85	2	Standard
⌈>	**Tb**	**159**		ug/L			618478	605337	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	78	110	143	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:12:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37469	1	Standard
	Cl	**37**		ug/L			3935892	4484147	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	521346	1	Standard
|	**Cr**	**52**	**48.840**	ug/L	0.589	1	14729	928245	3	Standard
⌊	**Cr**	**53**	**48.803**	ug/L	0.862	1	130	107282	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	25686	2	KED
|	**Cu**	**63**	**52.052**	ug/L	2.244	4	35	151225	2	KED
|	**Cu**	**65**	**51.017**	ug/L	1.014	1	25	74157	1	KED
|	**Zn**	**66**	**51.527**	ug/L	1.495	2	24	20189	1	KED
|	**Zn**	**67**	**51.229**	ug/L	2.273	4	1	3395	2	KED
⌊	**As**	**75**	**50.581**	ug/L	1.271	2	7	10019	1	KED
	Y	**89**		ug/L			261919	269800	1	Standard
	Kr	**83**		ug/L			60	59	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	6859	3	KED
|	**Cd**	**111**	**50.752**	ug/L	1.548	3	2	10880	0	KED
⌊	**Cd**	**114**	**51.846**	ug/L	1.975	3	3	27022	1	KED
⌈>	**In**	**115**		ug/L			388851	390224	3	Standard
⌊	**Ag**	**107**	**49.666**	ug/L	1.906	3	59	654111	6	Standard
⌈>	**Tb**	**159**		ug/L			618478	616224	2	Standard
⌊	**Pb**	**208**	**52.541**	ug/L	0.685	1	110	2178067	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:20:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37791	1	Standard
	Cl	**37**		ug/L			3935892	4195550	6	Standard
⌈>	**Sc**	**45**		ug/L			508823	512500	6	Standard
|	**Cr**	**52**	**-0.024**	ug/L	0.017	71	14729	14380	4	Standard
⌊	**Cr**	**53**	**0.010**	ug/L	0.004	40	130	152	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	26166	3	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	41	35	26	18	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.007	72	25	10	97	KED
|	**Zn**	**66**	**-0.025**	ug/L	0.014	55	24	15	33	KED
|	**Zn**	**67**	**0.018**	ug/L	0.016	86	1	3	34	KED
⌊	**As**	**75**	**0.002**	ug/L	0.005	208	7	8	15	KED
	Y	**89**		ug/L			261919	259581	5	Standard
	Kr	**83**		ug/L			60	51	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7309	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.004	101	2	3	25	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	392	3	3	96	KED
⌈>	**In**	**115**		ug/L			388851	385183	6	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	48	59	89	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	605144	5	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	10	110	172	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0649-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:24:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			37442	52198	1	Standard
	Cl	37		ug/L			3935892	4309630	3	Standard
>	Sc	45		ug/L			508823	528643	1	Standard
	Cr	52	0.587	ug/L	0.016	2	14729	26421	1	Standard
	Cr	53	0.631	ug/L	0.033	5	130	1539	3	Standard
>	Ge	72		ug/L			25706	17720	4	KED
	Cu	63	5.095	ug/L	0.026	0	35	10241	4	KED
	Cu	65	5.036	ug/L	0.167	3	25	5062	1	KED
	Zn	66	144.937	ug/L	2.890	1	24	39150	3	KED
	Zn	67	130.544	ug/L	3.240	2	1	5968	3	KED
	As	75	0.099	ug/L	0.022	22	7	18	20	KED
	Y	89		ug/L			261919	271388	2	Standard
	Kr	83		ug/L			60	46	32	Standard
>	In-1	115		ug/L			7141	7298	1	KED
	Cd	111	0.030	ug/L	0.020	64	2	9	44	KED
	Cd	114	-0.003	ug/L	0.008	281	3	2	188	KED
>	In	115		ug/L			388851	396781	1	Standard
	Ag	107	0.003	ug/L	0.001	23	59	107	8	Standard
>	Tb	159		ug/L			618478	614748	0	Standard
	Pb	208	0.845	ug/L	0.006	0	110	35055	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0650-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:27:37

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			37442	30577	1	Standard
Cl	37		ug/L			3935892	165047941	2	Standard
> Sc	45		ug/L			508823	199389	0	Standard
Cr	52	3.411	ug/L	0.116	3	14729	30157	2	Standard
Cr	53	178.366	ug/L	4.710	2	130	149791	2	Standard
> Ge	72		ug/L			25706	4933	5	KED
Cu	63	41.904	ug/L	0.596	1	35	23386	3	KED
Cu	65	41.010	ug/L	0.987	2	25	11450	5	KED
Zn	66	277.106	ug/L	4.750	1	24	20834	4	KED
Zn	67	243.223	ug/L	5.930	2	1	3096	5	KED
As	75	33.526	ug/L	0.761	2	7	1275	3	KED
Y	89		ug/L			261919	103481	1	Standard
Kr	83		ug/L			60	99405	2	Standard
> In-1	115		ug/L			7141	2312	1	KED
Cd	111	2.856	ug/L	0.137	4	2	207	3	KED
Cd	114	2.885	ug/L	0.062	2	3	508	2	KED
> In	115		ug/L			388851	132655	0	Standard
Ag	107	0.032	ug/L	0.004	12	59	164	11	Standard
> Tb	159		ug/L			618478	234489	0	Standard
Pb	208	22.254	ug/L	0.056	0	110	351114	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0651-01
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:30:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			37442	45352	0	Standard
	Cl	37		ug/L			3935892	169288153	3	Standard
>	Sc	45		ug/L			508823	255833	1	Standard
	Cr	52	**3.670**	ug/L	0.077	2	14729	41074	2	Standard
	Cr	53	**187.927**	ug/L	0.484	0	130	202497	2	Standard
>	Ge	72		ug/L			25706	5921	8	KED
	Cu	63	**16.501**	ug/L	0.947	5	35	11029	2	KED
	Cu	65	**15.559**	ug/L	0.893	5	25	5202	2	KED
	Zn	66	**261.060**	ug/L	11.764	4	24	23510	4	KED
	Zn	67	**231.963**	ug/L	10.543	4	1	3536	3	KED
	As	75	**1.241**	ug/L	0.049	3	7	58	10	KED
	Y	89		ug/L			261919	118340	1	Standard
	Kr	83		ug/L			60	77878	5	Standard
>	In-1	115		ug/L			7141	2826	1	KED
	Cd	111	**1.299**	ug/L	0.123	9	2	115	8	KED
	Cd	114	**1.390**	ug/L	0.039	2	3	300	3	KED
>	In	115		ug/L			388851	153146	2	Standard
	Ag	107	**0.031**	ug/L	0.004	14	59	182	12	Standard
>	Tb	159		ug/L			618478	269428	1	Standard
	Pb	208	**2.532**	ug/L	0.013	0	110	45941	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0653-01
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:34:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	57362	0	Standard
	Cl	**37**		ug/L			3935892	8704843	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	509002	1	Standard
|	**Cr**	**52**	**0.617**	ug/L	0.015	2	14729	26003	0	Standard
⌊	**Cr**	**53**	**11.552**	ug/L	0.309	2	130	24892	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	21951	3	KED
|	**Cu**	**63**	**3.512**	ug/L	0.107	3	35	8748	2	KED
|	**Cu**	**65**	**3.452**	ug/L	0.097	2	25	4307	1	KED
|	**Zn**	**66**	**98.644**	ug/L	2.283	2	24	33008	1	KED
|	**Zn**	**67**	**89.339**	ug/L	2.802	3	1	5061	3	KED
⌊	**As**	**75**	**0.302**	ug/L	0.035	11	7	57	12	KED
	Y	**89**		ug/L			261919	271049	2	Standard
	Kr	**83**		ug/L			60	273	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	8507	0	KED
|	**Cd**	**111**	**0.022**	ug/L	0.005	25	2	9	15	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.008	27	3	24	22	KED
⌈>	**In**	**115**		ug/L			388851	378730	0	Standard
⌊	**Ag**	**107**	**0.020**	ug/L	0.000	2	59	313	2	Standard
⌈>	**Tb**	**159**		ug/L			618478	667228	1	Standard
⌊	**Pb**	**208**	**0.312**	ug/L	0.004	1	110	14112	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0655-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 02:37:21

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39868	0	Standard
	Cl	**37**		ug/L			3935892	5185019	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	511299	2	Standard
|	**Cr**	**52**	**1.716**	ug/L	0.045	2	14729	46258	3	Standard
⌊	**Cr**	**53**	**6.982**	ug/L	0.138	1	130	15161	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	20726	3	KED
|	**Cu**	**63**	**9.961**	ug/L	0.234	2	35	23376	1	KED
|	**Cu**	**65**	**9.909**	ug/L	0.143	1	25	11645	4	KED
|	**Zn**	**66**	**34.946**	ug/L	0.866	2	24	11062	5	KED
|	**Zn**	**67**	**32.365**	ug/L	1.419	4	1	1731	3	KED
⌊	**As**	**75**	**0.444**	ug/L	0.064	14	7	77	15	KED
	Y	**89**		ug/L			261919	274307	3	Standard
	Kr	**83**		ug/L			60	85	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	8181	0	KED
|	**Cd**	**111**	**0.166**	ug/L	0.036	21	2	45	20	KED
⌊	**Cd**	**114**	**0.158**	ug/L	0.007	4	3	102	4	KED
⌈>	**In**	**115**		ug/L			388851	390169	3	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.001	12	59	205	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	664665	3	Standard
⌊	**Pb**	**208**	**2.474**	ug/L	0.052	2	110	110703	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0656-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:40:36

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	55641	0	Standard
	Cl	**37**		ug/L			3935892	5643750	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	542343	1	Standard
|	**Cr**	**52**	**5.295**	ug/L	0.065	1	14729	118656	0	Standard
⌊	**Cr**	**53**	**9.381**	ug/L	0.109	1	130	21559	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19287	6	KED
|	**Cu**	**63**	**10.974**	ug/L	0.570	5	35	23930	3	KED
|	**Cu**	**65**	**11.154**	ug/L	0.451	4	25	12173	3	KED
|	**Zn**	**66**	**81.935**	ug/L	2.893	3	24	24068	3	KED
|	**Zn**	**67**	**76.896**	ug/L	0.311	0	1	3829	6	KED
⌊	**As**	**75**	**2.560**	ug/L	0.222	8	7	385	6	KED
	Y	**89**		ug/L			261919	282365	1	Standard
	Kr	**83**		ug/L			60	83	19	Standard
⌈>	**In-1**	**115**		ug/L			7141	7766	1	KED
|	**Cd**	**111**	**0.147**	ug/L	0.035	23	2	38	19	KED
⌊	**Cd**	**114**	**0.216**	ug/L	0.007	3	3	131	4	KED
⌈>	**In**	**115**		ug/L			388851	368381	1	Standard
⌊	**Ag**	**107**	**0.016**	ug/L	0.000	2	59	254	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	643998	1	Standard
⌊	**Pb**	**208**	**3.843**	ug/L	0.074	1	110	166575	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0660-03
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:43:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	49743	3	Standard
	Cl	**37**		ug/L			3935892	6933263	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	474534	5	Standard
|	**Cr**	**52**	**7.179**	ug/L	0.093	1	14729	135846	3	Standard
⌊	**Cr**	**53**	**13.846**	ug/L	0.351	2	130	27761	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18190	5	KED
|	**Cu**	**63**	**12.306**	ug/L	0.232	1	35	25338	3	KED
|	**Cu**	**65**	**12.143**	ug/L	0.526	4	25	12501	2	KED
|	**Zn**	**66**	**40.722**	ug/L	0.518	1	24	11304	4	KED
|	**Zn**	**67**	**39.781**	ug/L	0.409	1	1	1868	5	KED
⌊	**As**	**75**	**0.994**	ug/L	0.062	6	7	144	8	KED
	Y	**89**		ug/L			261919	253107	5	Standard
	Kr	**83**		ug/L			60	79	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7807	2	KED
|	**Cd**	**111**	**0.055**	ug/L	0.004	7	2	16	6	KED
⌊	**Cd**	**114**	**0.041**	ug/L	0.027	66	3	27	55	KED
⌈>	**In**	**115**		ug/L			388851	358658	4	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.001	15	59	132	10	Standard
⌈>	**Tb**	**159**		ug/L			618478	633858	4	Standard
⌊	**Pb**	**208**	**2.266**	ug/L	0.051	2	110	96682	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0660-05
Sample Dil Factor: 2
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:47:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	43598	2	Standard
	Cl	**37**		ug/L			3935892	5660116	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	472702	1	Standard
|	**Cr**	**52**	**5.309**	ug/L	0.033	0	14729	103674	2	Standard
⌊	**Cr**	**53**	**9.709**	ug/L	0.059	0	130	19443	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18264	2	KED
|	**Cu**	**63**	**18.389**	ug/L	0.250	1	35	38030	2	KED
|	**Cu**	**65**	**18.083**	ug/L	0.408	2	25	18710	3	KED
|	**Zn**	**66**	**77.192**	ug/L	1.957	2	24	21512	4	KED
|	**Zn**	**67**	**75.648**	ug/L	1.709	2	1	3566	1	KED
⌊	**As**	**75**	**0.942**	ug/L	0.021	2	7	137	3	KED
	Y	**89**		ug/L			261919	272650	2	Standard
	Kr	**83**		ug/L			60	66	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7798	3	KED
|	**Cd**	**111**	**0.093**	ug/L	0.035	37	2	25	29	KED
⌊	**Cd**	**114**	**0.059**	ug/L	0.017	28	3	39	27	KED
⌈>	**In**	**115**		ug/L			388851	366860	2	Standard
⌊	**Ag**	**107**	**0.012**	ug/L	0.003	22	59	208	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	639361	2	Standard
⌊	**Pb**	**208**	**7.042**	ug/L	0.156	2	110	302945	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-02
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:50:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36285	1	Standard
	Cl	**37**		ug/L			3935892	4142953	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	500147	1	Standard
|	**Cr**	**52**	**11.202**	ug/L	0.168	1	14729	215380	2	Standard
⌊	**Cr**	**53**	**13.137**	ug/L	0.116	0	130	27794	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18934	5	KED
|	**Cu**	**63**	**5.699**	ug/L	0.204	3	35	12221	3	KED
|	**Cu**	**65**	**5.673**	ug/L	0.216	3	25	6087	2	KED
|	**Zn**	**66**	**23.320**	ug/L	0.600	2	24	6742	3	KED
|	**Zn**	**67**	**22.829**	ug/L	0.348	1	1	1117	7	KED
⌊	**As**	**75**	**3.422**	ug/L	0.050	1	7	504	5	KED
	Y	**89**		ug/L			261919	355571	0	Standard
	Kr	**83**		ug/L			60	88	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	8031	1	KED
|	**Cd**	**111**	**0.224**	ug/L	0.005	2	2	59	0	KED
⌊	**Cd**	**114**	**0.251**	ug/L	0.005	2	3	157	2	KED
⌈>	**In**	**115**		ug/L			388851	374091	2	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.001	1	59	512	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	659107	1	Standard
⌊	**Pb**	**208**	**3.075**	ug/L	0.013	0	110	136460	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:53:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	29247	6	Standard
	Cl	**37**		ug/L			3935892	3751040	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	425826	5	Standard
|	**Cr**	**52**	**0.074**	ug/L	0.027	36	14729	13457	6	Standard
⌊	**Cr**	**53**	**2.237**	ug/L	0.088	3	130	4115	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18506	2	KED
|	**Cu**	**63**	**0.005**	ug/L	0.006	116	35	35	30	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	142	25	15	18	KED
|	**Zn**	**66**	**0.016**	ug/L	0.010	61	24	22	9	KED
|	**Zn**	**67**	**0.050**	ug/L	0.038	74	1	3	50	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.007	100	7	4	22	KED
	Y	**89**		ug/L			261919	232884	3	Standard
	Kr	**83**		ug/L			60	50	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	7932	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	228	2	2	57	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.004	1664	3	4	54	KED
⌈>	**In**	**115**		ug/L			388851	353903	4	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	53	59	41	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	602381	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	20	110	185	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:57:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	30052	2	Standard
	Cl	**37**		ug/L			3935892	4070988	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	452826	0	Standard
|	**Cr**	**52**	**50.727**	ug/L	1.547	3	14729	836686	2	Standard
⌊	**Cr**	**53**	**52.295**	ug/L	0.883	1	130	99817	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18086	7	KED
|	**Cu**	**63**	**56.383**	ug/L	2.935	5	35	115130	1	KED
|	**Cu**	**65**	**55.544**	ug/L	1.834	3	25	56783	4	KED
|	**Zn**	**66**	**53.327**	ug/L	2.812	5	24	14692	4	KED
|	**Zn**	**67**	**52.875**	ug/L	2.045	3	1	2466	5	KED
⌊	**As**	**75**	**52.460**	ug/L	0.760	1	7	7316	6	KED
	Y	**89**		ug/L			261919	253844	1	Standard
	Kr	**83**		ug/L			60	66	28	Standard
⌈>	**In-1**	**115**		ug/L			7141	8068	1	KED
|	**Cd**	**111**	**48.291**	ug/L	0.715	1	2	12185	2	KED
⌊	**Cd**	**114**	**48.229**	ug/L	0.306	0	3	29590	1	KED
⌈>	**In**	**115**		ug/L			388851	365899	0	Standard
⌊	**Ag**	**107**	**52.142**	ug/L	1.599	3	59	643600	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	632630	1	Standard
⌊	**Pb**	**208**	**48.210**	ug/L	1.087	2	110	2051604	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:03:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	28889	3	Standard
	Cl	**37**		ug/L			3935892	3758010	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	434363	2	Standard
|	**Cr**	**52**	**0.069**	ug/L	0.006	9	14729	13649	2	Standard
⌊	**Cr**	**53**	**1.505**	ug/L	0.014	0	130	2865	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	16729	4	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	138	35	19	36	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.008	91	25	8	86	KED
|	**Zn**	**66**	**-0.019**	ug/L	0.032	173	24	11	72	KED
|	**Zn**	**67**	**0.103**	ug/L	0.075	72	1	5	57	KED
⌊	**As**	**75**	**0.002**	ug/L	0.013	616	7	5	28	KED
	Y	**89**		ug/L			261919	239890	3	Standard
	Kr	**83**		ug/L			60	57	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	8221	2	KED
|	**Cd**	**111**	**0.008**	ug/L	0.005	65	2	5	26	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	168	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	356058	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	59	59	60	8	Standard
⌈>	**Tb**	**159**		ug/L			618478	609431	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	21	110	177	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-03
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:06:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45819	2	Standard
	Cl	**37**		ug/L			3935892	3834492	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	469497	2	Standard
|	**Cr**	**52**	**10.906**	ug/L	0.077	0	14729	197174	2	Standard
⌊	**Cr**	**53**	**11.800**	ug/L	0.157	1	130	23443	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	17884	5	KED
|	**Cu**	**63**	**5.331**	ug/L	0.239	4	35	10794	2	KED
|	**Cu**	**65**	**5.383**	ug/L	0.231	4	25	5456	2	KED
|	**Zn**	**66**	**21.944**	ug/L	0.638	2	24	5995	5	KED
|	**Zn**	**67**	**20.799**	ug/L	0.616	2	1	960	4	KED
⌊	**As**	**75**	**3.018**	ug/L	0.056	1	7	421	7	KED
	Y	**89**		ug/L			261919	334065	3	Standard
	Kr	**83**		ug/L			60	70	10	Standard
⌈>	**In-1**	**115**		ug/L			7141	7687	3	KED
|	**Cd**	**111**	**0.212**	ug/L	0.027	12	2	53	13	KED
⌊	**Cd**	**114**	**0.201**	ug/L	0.043	21	3	121	23	KED
⌈>	**In**	**115**		ug/L			388851	355257	3	Standard
⌊	**Ag**	**107**	**0.029**	ug/L	0.002	8	59	403	6	Standard
⌈>	**Tb**	**159**		ug/L			618478	622980	1	Standard
⌊	**Pb**	**208**	**3.035**	ug/L	0.018	0	110	127329	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-04
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:09:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52362	1	Standard
	Cl	**37**		ug/L			3935892	3894152	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	484566	3	Standard
|	**Cr**	**52**	**10.859**	ug/L	0.259	2	14729	202630	2	Standard
⌊	**Cr**	**53**	**11.969**	ug/L	0.316	2	130	24530	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19083	3	KED
|	**Cu**	**63**	**16.042**	ug/L	0.548	3	35	34636	1	KED
|	**Cu**	**65**	**16.055**	ug/L	0.573	3	25	17341	1	KED
|	**Zn**	**66**	**25.283**	ug/L	0.451	1	24	7370	2	KED
|	**Zn**	**67**	**23.090**	ug/L	1.121	4	1	1137	1	KED
⌊	**As**	**75**	**3.567**	ug/L	0.159	4	7	529	0	KED
	Y	**89**		ug/L			261919	353434	3	Standard
	Kr	**83**		ug/L			60	83	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	8028	2	KED
|	**Cd**	**111**	**0.285**	ug/L	0.025	8	2	74	6	KED
⌊	**Cd**	**114**	**0.255**	ug/L	0.016	6	3	159	5	KED
⌈>	**In**	**115**		ug/L			388851	366434	0	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.003	9	59	504	8	Standard
⌈>	**Tb**	**159**		ug/L			618478	626646	1	Standard
⌊	**Pb**	**208**	**3.339**	ug/L	0.084	2	110	140876	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-05
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:13:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	47432	0	Standard
	Cl	**37**		ug/L			3935892	3761227	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	467605	1	Standard
|	**Cr**	**52**	**11.771**	ug/L	0.130	1	14729	210887	0	Standard
⌊	**Cr**	**53**	**12.713**	ug/L	0.419	3	130	25141	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18384	4	KED
|	**Cu**	**63**	**12.197**	ug/L	0.165	1	35	25403	5	KED
|	**Cu**	**65**	**12.137**	ug/L	0.253	2	25	12639	4	KED
|	**Zn**	**66**	**24.866**	ug/L	0.404	1	24	6982	3	KED
|	**Zn**	**67**	**22.291**	ug/L	1.656	7	1	1056	3	KED
⌊	**As**	**75**	**3.295**	ug/L	0.069	2	7	472	6	KED
	Y	**89**		ug/L			261919	330589	0	Standard
	Kr	**83**		ug/L			60	78	18	Standard
⌈>	**In-1**	**115**		ug/L			7141	7620	3	KED
|	**Cd**	**111**	**0.203**	ug/L	0.028	13	2	51	12	KED
⌊	**Cd**	**114**	**0.241**	ug/L	0.028	11	3	144	14	KED
⌈>	**In**	**115**		ug/L			388851	349395	1	Standard
⌊	**Ag**	**107**	**0.035**	ug/L	0.001	3	59	464	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	615718	0	Standard
⌊	**Pb**	**208**	**3.303**	ug/L	0.063	1	110	136910	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:16:33

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52437	1	Standard
	Cl	**37**		ug/L			3935892	3863136	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	505134	2	Standard
|	**Cr**	**52**	**11.420**	ug/L	0.297	2	14729	221504	4	Standard
⌊	**Cr**	**53**	**12.124**	ug/L	0.188	1	130	25913	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18893	6	KED
|	**Cu**	**63**	**6.031**	ug/L	0.265	4	35	12897	2	KED
|	**Cu**	**65**	**5.983**	ug/L	0.364	6	25	6398	0	KED
|	**Zn**	**66**	**24.325**	ug/L	0.964	3	24	7018	5	KED
|	**Zn**	**67**	**23.434**	ug/L	0.627	2	1	1142	4	KED
⌊	**As**	**75**	**3.313**	ug/L	0.181	5	7	487	7	KED
	Y	**89**		ug/L			261919	352138	2	Standard
	Kr	**83**		ug/L			60	97	10	Standard
⌈>	**In-1**	**115**		ug/L			7141	8010	1	KED
|	**Cd**	**111**	**0.246**	ug/L	0.041	16	2	64	15	KED
⌊	**Cd**	**114**	**0.225**	ug/L	0.021	9	3	141	10	KED
⌈>	**In**	**115**		ug/L			388851	367636	1	Standard
⌊	**Ag**	**107**	**0.038**	ug/L	0.002	4	59	531	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	639905	2	Standard
⌊	**Pb**	**208**	**3.630**	ug/L	0.063	1	110	156341	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-07
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 03:19:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35287	0	Standard
	Cl	**37**		ug/L			3935892	3824908	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	489545	3	Standard
|	**Cr**	**52**	**10.545**	ug/L	0.371	3	14729	199139	0	Standard
⌊	**Cr**	**53**	**11.345**	ug/L	0.099	0	130	23505	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19198	4	KED
|	**Cu**	**63**	**5.450**	ug/L	0.110	2	35	11860	3	KED
|	**Cu**	**65**	**5.338**	ug/L	0.111	2	25	5814	3	KED
|	**Zn**	**66**	**22.152**	ug/L	0.101	0	24	6501	4	KED
|	**Zn**	**67**	**23.516**	ug/L	1.377	5	1	1164	1	KED
⌊	**As**	**75**	**2.963**	ug/L	0.090	3	7	444	5	KED
	Y	**89**		ug/L			261919	348017	2	Standard
	Kr	**83**		ug/L			60	82	12	Standard
⌈>	**In-1**	**115**		ug/L			7141	7935	5	KED
|	**Cd**	**111**	**0.254**	ug/L	0.018	7	2	66	9	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.008	3	3	151	6	KED
⌈>	**In**	**115**		ug/L			388851	362649	0	Standard
⌊	**Ag**	**107**	**0.031**	ug/L	0.001	2	59	434	2	Standard
⌈>	**Tb**	**159**		ug/L			618478	631352	2	Standard
⌊	**Pb**	**208**	**3.366**	ug/L	0.068	2	110	143039	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-08
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:23:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35039	1	Standard
	Cl	**37**		ug/L			3935892	3810338	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	495239	3	Standard
|	**Cr**	**52**	**10.704**	ug/L	0.108	1	14729	204441	3	Standard
⌊	**Cr**	**53**	**11.590**	ug/L	0.037	0	130	24291	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19125	3	KED
|	**Cu**	**63**	**5.851**	ug/L	0.138	2	35	12682	2	KED
|	**Cu**	**65**	**5.854**	ug/L	0.148	2	25	6351	2	KED
|	**Zn**	**66**	**22.654**	ug/L	0.431	1	24	6619	1	KED
|	**Zn**	**67**	**22.374**	ug/L	1.264	5	1	1106	8	KED
⌊	**As**	**75**	**3.196**	ug/L	0.096	2	7	476	6	KED
	Y	**89**		ug/L			261919	338897	2	Standard
	Kr	**83**		ug/L			60	85	4	Standard
⌈>	**In-1**	**115**		ug/L			7141	8043	5	KED
|	**Cd**	**111**	**0.248**	ug/L	0.023	9	2	65	12	KED
⌊	**Cd**	**114**	**0.249**	ug/L	0.054	21	3	155	15	KED
⌈>	**In**	**115**		ug/L			388851	361753	1	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.001	3	59	497	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	627931	1	Standard
⌊	**Pb**	**208**	**3.308**	ug/L	0.012	0	110	139838	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-09
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:26:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	49957	4	Standard
	Cl	**37**		ug/L			3935892	3732248	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	473410	4	Standard
|	**Cr**	**52**	**11.968**	ug/L	0.309	2	14729	216719	3	Standard
⌊	**Cr**	**53**	**12.680**	ug/L	0.206	1	130	25384	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18438	4	KED
|	**Cu**	**63**	**5.579**	ug/L	0.003	0	35	11664	4	KED
|	**Cu**	**65**	**5.613**	ug/L	0.227	4	25	5867	2	KED
|	**Zn**	**66**	**23.488**	ug/L	0.373	1	24	6615	3	KED
|	**Zn**	**67**	**21.846**	ug/L	1.634	7	1	1039	6	KED
⌊	**As**	**75**	**3.054**	ug/L	0.160	5	7	438	0	KED
	Y	**89**		ug/L			261919	326903	4	Standard
	Kr	**83**		ug/L			60	74	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7590	0	KED
|	**Cd**	**111**	**0.235**	ug/L	0.015	6	2	58	6	KED
⌊	**Cd**	**114**	**0.265**	ug/L	0.034	12	3	156	12	KED
⌈>	**In**	**115**		ug/L			388851	351981	3	Standard
⌊	**Ag**	**107**	**0.037**	ug/L	0.005	13	59	488	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	613500	1	Standard
⌊	**Pb**	**208**	**3.541**	ug/L	0.019	0	110	146255	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-10
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 03:29:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	56251	3	Standard
	Cl	**37**		ug/L			3935892	3907703	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	506726	2	Standard
|	**Cr**	**52**	**12.065**	ug/L	0.186	1	14729	233829	1	Standard
⌊	**Cr**	**53**	**12.746**	ug/L	0.278	2	130	27313	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	18287	4	KED
|	**Cu**	**63**	**9.579**	ug/L	0.357	3	35	19823	1	KED
|	**Cu**	**65**	**9.657**	ug/L	0.209	2	25	10004	2	KED
|	**Zn**	**66**	**26.844**	ug/L	0.364	1	24	7497	3	KED
|	**Zn**	**67**	**25.602**	ug/L	0.571	2	1	1209	5	KED
⌊	**As**	**75**	**3.222**	ug/L	0.058	1	7	459	5	KED
	Y	**89**		ug/L			261919	362772	2	Standard
	Kr	**83**		ug/L			60	84	19	Standard
⌈>	**In-1**	**115**		ug/L			7141	7660	3	KED
|	**Cd**	**111**	**0.277**	ug/L	0.030	10	2	69	8	KED
⌊	**Cd**	**114**	**0.239**	ug/L	0.020	8	3	143	9	KED
⌈>	**In**	**115**		ug/L			388851	368635	4	Standard
⌊	**Ag**	**107**	**0.111**	ug/L	0.005	4	59	1442	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	636185	3	Standard
⌊	**Pb**	**208**	**3.671**	ug/L	0.056	1	110	157172	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:33:18

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53431	1	Standard
	Cl	**37**		ug/L			3935892	3782257	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	477294	1	Standard
|	**Cr**	**52**	**9.806**	ug/L	0.132	1	14729	181660	2	Standard
⌊	**Cr**	**53**	**10.342**	ug/L	0.149	1	130	20901	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	19228	3	KED
|	**Cu**	**63**	**5.378**	ug/L	0.118	2	35	11727	4	KED
|	**Cu**	**65**	**5.396**	ug/L	0.134	2	25	5886	1	KED
|	**Zn**	**66**	**23.235**	ug/L	0.251	1	24	6830	4	KED
|	**Zn**	**67**	**22.465**	ug/L	0.166	0	1	1116	4	KED
⌊	**As**	**75**	**3.058**	ug/L	0.056	1	7	459	5	KED
	Y	**89**		ug/L			261919	337631	2	Standard
	Kr	**83**		ug/L			60	83	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7769	0	KED
|	**Cd**	**111**	**0.275**	ug/L	0.009	3	2	69	4	KED
⌊	**Cd**	**114**	**0.253**	ug/L	0.034	13	3	153	12	KED
⌈>	**In**	**115**		ug/L			388851	356054	1	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	5	59	465	6	Standard
⌈>	**Tb**	**159**		ug/L			618478	617888	2	Standard
⌊	**Pb**	**208**	**3.470**	ug/L	0.050	1	110	144322	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:36:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	29827	1	Standard
	Cl	**37**		ug/L			3935892	3549098	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	427770	6	Standard
|	**Cr**	**52**	**0.050**	ug/L	0.002	3	14729	13154	6	Standard
⌊	**Cr**	**53**	**0.767**	ug/L	0.042	5	130	1488	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19184	3	KED
|	**Cu**	**63**	**0.004**	ug/L	0.005	130	35	34	30	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.001	20	25	13	7	KED
|	**Zn**	**66**	**0.029**	ug/L	0.040	135	24	27	44	KED
|	**Zn**	**67**	**0.049**	ug/L	0.041	83	1	3	50	KED
⌊	**As**	**75**	**0.001**	ug/L	0.014	1315	7	5	36	KED
	Y	**89**		ug/L			261919	232348	5	Standard
	Kr	**83**		ug/L			60	42	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7944	3	KED
|	**Cd**	**111**	**0.010**	ug/L	0.007	68	2	5	28	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	180	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	351005	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.002	130	59	40	43	Standard
⌈>	**Tb**	**159**		ug/L			618478	591446	6	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	293	110	113	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:40:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	32239	2	Standard
	Cl	**37**		ug/L			3935892	4033391	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	462611	0	Standard
|	**Cr**	**52**	**50.473**	ug/L	0.748	1	14729	850626	1	Standard
⌊	**Cr**	**53**	**50.391**	ug/L	0.491	0	130	98269	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18506	5	KED
|	**Cu**	**63**	**55.410**	ug/L	2.789	5	35	115830	0	KED
|	**Cu**	**65**	**54.895**	ug/L	1.413	2	25	57447	3	KED
|	**Zn**	**66**	**50.816**	ug/L	0.279	0	24	14348	5	KED
|	**Zn**	**67**	**51.885**	ug/L	1.576	3	1	2477	4	KED
⌊	**As**	**75**	**51.142**	ug/L	1.266	2	7	7294	3	KED
	Y	**89**		ug/L			261919	254210	0	Standard
	Kr	**83**		ug/L			60	46	29	Standard
⌈>	**In-1**	**115**		ug/L			7141	7967	3	KED
|	**Cd**	**111**	**48.010**	ug/L	0.504	1	2	11962	3	KED
⌊	**Cd**	**114**	**47.306**	ug/L	0.817	1	3	28658	3	KED
⌈>	**In**	**115**		ug/L			388851	370041	2	Standard
⌊	**Ag**	**107**	**51.551**	ug/L	1.686	3	59	643125	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	628484	1	Standard
⌊	**Pb**	**208**	**49.578**	ug/L	0.461	0	110	2096185	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:46:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	32559	1	Standard
	Cl	**37**		ug/L			3935892	3777445	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	465322	2	Standard
|	**Cr**	**52**	**0.044**	ug/L	0.022	50	14729	14202	3	Standard
⌊	**Cr**	**53**	**0.627**	ug/L	0.009	1	130	1347	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	16137	5	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.002	41	35	11	33	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.005	67	25	8	49	KED
|	**Zn**	**66**	**-0.030**	ug/L	0.011	36	24	8	35	KED
|	**Zn**	**67**	**0.017**	ug/L	0.003	14	1	1		KED
⌊	**As**	**75**	**0.001**	ug/L	0.021	1914	7	4	52	KED
	Y	**89**		ug/L			261919	244745	3	Standard
	Kr	**83**		ug/L			60	54	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7782	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	260	2	2	57	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	219	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	369783	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	241	59	62	22	Standard
⌈>	**Tb**	**159**		ug/L			618478	609718	3	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.001	236	110	90	42	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-12
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 03:49:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53767	2	Standard
	Cl	**37**		ug/L			3935892	3931066	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	498640	3	Standard
|	**Cr**	**52**	**8.863**	ug/L	0.079	0	14729	172903	3	Standard
⌊	**Cr**	**53**	**9.494**	ug/L	0.035	0	130	20062	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18465	5	KED
|	**Cu**	**63**	**33.966**	ug/L	1.270	3	35	70915	3	KED
|	**Cu**	**65**	**34.172**	ug/L	0.705	2	25	35696	3	KED
|	**Zn**	**66**	**20.170**	ug/L	0.655	3	24	5688	2	KED
|	**Zn**	**67**	**18.470**	ug/L	2.287	12	1	877	6	KED
⌊	**As**	**75**	**2.871**	ug/L	0.135	4	7	413	5	KED
	Y	**89**		ug/L			261919	358018	4	Standard
	Kr	**83**		ug/L			60	81	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7671	0	KED
|	**Cd**	**111**	**0.200**	ug/L	0.051	25	2	51	23	KED
⌊	**Cd**	**114**	**0.219**	ug/L	0.037	16	3	131	16	KED
⌈>	**In**	**115**		ug/L			388851	368835	3	Standard
⌊	**Ag**	**107**	**0.027**	ug/L	0.004	15	59	387	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	627256	5	Standard
⌊	**Pb**	**208**	**2.747**	ug/L	0.057	2	110	115959	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:52:48

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38251	3	Standard
	Cl	**37**		ug/L			3935892	3984346	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	524918	1	Standard
|	**Cr**	**52**	**8.661**	ug/L	0.135	1	14729	178221	2	Standard
⌊	**Cr**	**53**	**9.148**	ug/L	0.249	2	130	20346	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	17528	4	KED
|	**Cu**	**63**	**4.315**	ug/L	0.128	2	35	8577	3	KED
|	**Cu**	**65**	**4.441**	ug/L	0.057	1	25	4421	3	KED
|	**Zn**	**66**	**20.119**	ug/L	0.741	3	24	5394	6	KED
|	**Zn**	**67**	**18.542**	ug/L	0.633	3	1	839	2	KED
⌊	**As**	**75**	**2.882**	ug/L	0.059	2	7	394	5	KED
	Y	**89**		ug/L			261919	360591	1	Standard
	Kr	**83**		ug/L			60	84	17	Standard
⌈>	**In-1**	**115**		ug/L			7141	7899	5	KED
|	**Cd**	**111**	**0.227**	ug/L	0.028	12	2	59	15	KED
⌊	**Cd**	**114**	**0.213**	ug/L	0.029	13	3	131	11	KED
⌈>	**In**	**115**		ug/L			388851	383690	2	Standard
⌊	**Ag**	**107**	**0.032**	ug/L	0.002	5	59	473	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	641290	2	Standard
⌊	**Pb**	**208**	**2.975**	ug/L	0.073	2	110	128419	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:56:09

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54349	2	Standard
	Cl	**37**		ug/L			3935892	3857211	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	478592	2	Standard
|	**Cr**	**52**	**9.996**	ug/L	0.060	0	14729	185391	1	Standard
⌊	**Cr**	**53**	**10.499**	ug/L	0.068	0	130	21279	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18997	6	KED
|	**Cu**	**63**	**4.685**	ug/L	0.105	2	35	10088	5	KED
|	**Cu**	**65**	**4.745**	ug/L	0.078	1	25	5115	5	KED
|	**Zn**	**66**	**20.524**	ug/L	0.834	4	24	5952	4	KED
|	**Zn**	**67**	**19.569**	ug/L	0.835	4	1	960	7	KED
⌊	**As**	**75**	**2.910**	ug/L	0.090	3	7	432	9	KED
	Y	**89**		ug/L			261919	337270	0	Standard
	Kr	**83**		ug/L			60	66	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7899	2	KED
|	**Cd**	**111**	**0.217**	ug/L	0.006	2	2	56	0	KED
⌊	**Cd**	**114**	**0.251**	ug/L	0.030	12	3	154	14	KED
⌈>	**In**	**115**		ug/L			388851	355643	1	Standard
⌊	**Ag**	**107**	**0.030**	ug/L	0.004	13	59	419	13	Standard
⌈>	**Tb**	**159**		ug/L			618478	612011	2	Standard
⌊	**Pb**	**208**	**3.192**	ug/L	0.070	2	110	131486	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:59:30

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53372	1	Standard
	Cl	**37**		ug/L			3935892	3994721	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	519026	4	Standard
|	**Cr**	**52**	**10.036**	ug/L	0.274	2	14729	201777	4	Standard
⌊	**Cr**	**53**	**10.138**	ug/L	0.424	4	130	22272	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18455	4	KED
|	**Cu**	**63**	**5.127**	ug/L	0.149	2	35	10723	1	KED
|	**Cu**	**65**	**5.120**	ug/L	0.171	3	25	5361	2	KED
|	**Zn**	**66**	**22.713**	ug/L	0.793	3	24	6411	7	KED
|	**Zn**	**67**	**20.811**	ug/L	1.364	6	1	991	4	KED
⌊	**As**	**75**	**2.945**	ug/L	0.100	3	7	424	7	KED
	Y	**89**		ug/L			261919	356728	2	Standard
	Kr	**83**		ug/L			60	82	17	Standard
⌈>	**In-1**	**115**		ug/L			7141	7733	2	KED
|	**Cd**	**111**	**0.236**	ug/L	0.035	14	2	60	13	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.013	5	3	147	3	KED
⌈>	**In**	**115**		ug/L			388851	376766	3	Standard
⌊	**Ag**	**107**	**0.032**	ug/L	0.002	6	59	466	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	633262	4	Standard
⌊	**Pb**	**208**	**3.272**	ug/L	0.072	2	110	139425	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-16
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 04:02:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52834	2	Standard
	Cl	**37**		ug/L			3935892	4116039	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	539603	1	Standard
|	**Cr**	**52**	**12.719**	ug/L	0.089	0	14729	261725	1	Standard
⌊	**Cr**	**53**	**13.270**	ug/L	0.335	2	130	30288	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18879	4	KED
|	**Cu**	**63**	**5.949**	ug/L	0.168	2	35	12723	2	KED
|	**Cu**	**65**	**5.963**	ug/L	0.094	1	25	6385	3	KED
|	**Zn**	**66**	**78.769**	ug/L	1.874	2	24	22668	2	KED
|	**Zn**	**67**	**72.928**	ug/L	1.118	1	1	3555	5	KED
⌊	**As**	**75**	**5.791**	ug/L	0.022	0	7	848	4	KED
	Y	**89**		ug/L			261919	395646	1	Standard
	Kr	**83**		ug/L			60	88	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7626	0	KED
|	**Cd**	**111**	**0.297**	ug/L	0.034	11	2	73	11	KED
⌊	**Cd**	**114**	**0.273**	ug/L	0.056	20	3	162	20	KED
⌈>	**In**	**115**		ug/L			388851	367750	3	Standard
⌊	**Ag**	**107**	**0.050**	ug/L	0.002	4	59	670	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	637006	2	Standard
⌊	**Pb**	**208**	**4.624**	ug/L	0.136	2	110	198180	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-17
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 04:06:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54653	2	Standard
	Cl	**37**		ug/L			3935892	4105182	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	540722	5	Standard
|	**Cr**	**52**	**12.079**	ug/L	0.261	2	14729	250020	7	Standard
⌊	**Cr**	**53**	**12.334**	ug/L	0.102	0	130	28218	5	Standard
⌈>	**Ge**	**72**		ug/L			25706	18467	4	KED
|	**Cu**	**63**	**12.927**	ug/L	0.210	1	35	27030	3	KED
|	**Cu**	**65**	**12.837**	ug/L	0.435	3	25	13419	1	KED
|	**Zn**	**66**	**37.834**	ug/L	0.644	1	24	10664	3	KED
|	**Zn**	**67**	**34.194**	ug/L	0.931	2	1	1631	6	KED
⌊	**As**	**75**	**4.757**	ug/L	0.133	2	7	682	2	KED
	Y	**89**		ug/L			261919	383562	5	Standard
	Kr	**83**		ug/L			60	83	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7490	2	KED
|	**Cd**	**111**	**0.223**	ug/L	0.014	6	2	55	5	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.011	4	3	142	6	KED
⌈>	**In**	**115**		ug/L			388851	372779	4	Standard
⌊	**Ag**	**107**	**0.039**	ug/L	0.001	3	59	551	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	635151	5	Standard
⌊	**Pb**	**208**	**3.619**	ug/L	0.061	1	110	154695	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-18
Sample Dil Factor: 20
Comments:
DEL
Sample Date/Time: Friday, January 13, 2023 04:09:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54613	0	Standard
	Cl	**37**		ug/L			3935892	4079084	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	526219	1	Standard
|	**Cr**	**52**	**12.488**	ug/L	0.084	0	14729	250854	0	Standard
⌊	**Cr**	**53**	**12.578**	ug/L	0.117	0	130	28000	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	18889	4	KED
|	**Cu**	**63**	**6.138**	ug/L	0.168	2	35	13141	4	KED
|	**Cu**	**65**	**6.195**	ug/L	0.211	3	25	6637	4	KED
|	**Zn**	**66**	**42.290**	ug/L	1.568	3	24	12181	0	KED
|	**Zn**	**67**	**39.628**	ug/L	2.292	5	1	1931	5	KED
⌊	**As**	**75**	**5.686**	ug/L	0.144	2	7	833	3	KED
	Y	**89**		ug/L			261919	379360	1	Standard
	Kr	**83**		ug/L			60	75	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	7611	0	KED
|	**Cd**	**111**	**0.278**	ug/L	0.058	21	2	69	20	KED
⌊	**Cd**	**114**	**0.245**	ug/L	0.024	9	3	145	9	KED
⌈>	**In**	**115**		ug/L			388851	361300	2	Standard
⌊	**Ag**	**107**	**0.046**	ug/L	0.002	3	59	615	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	617962	1	Standard
⌊	**Pb**	**208**	**4.088**	ug/L	0.040	0	110	170065	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-19
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 04:12:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	56444	3	Standard
	Cl	**37**		ug/L			3935892	4097287	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	547304	3	Standard
|	**Cr**	**52**	**13.736**	ug/L	0.108	0	14729	285364	2	Standard
⌊	**Cr**	**53**	**13.895**	ug/L	0.313	2	130	32145	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19026	4	KED
|	**Cu**	**63**	**6.791**	ug/L	0.865	12	35	14675	15	KED
|	**Cu**	**65**	**6.865**	ug/L	0.893	13	25	7422	15	KED
|	**Zn**	**66**	**41.984**	ug/L	0.316	0	24	12192	3	KED
|	**Zn**	**67**	**38.124**	ug/L	1.189	3	1	1873	5	KED
⌊	**As**	**75**	**6.127**	ug/L	0.050	0	7	904	4	KED
	Y	**89**		ug/L			261919	386678	2	Standard
	Kr	**83**		ug/L			60	95	26	Standard
⌈>	**In-1**	**115**		ug/L			7141	7577	0	KED
|	**Cd**	**111**	**0.258**	ug/L	0.024	9	2	64	8	KED
⌊	**Cd**	**114**	**0.276**	ug/L	0.002	0	3	163	1	KED
⌈>	**In**	**115**		ug/L			388851	362836	1	Standard
⌊	**Ag**	**107**	**0.053**	ug/L	0.003	4	59	700	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	623269	1	Standard
⌊	**Pb**	**208**	**4.395**	ug/L	0.070	1	110	184415	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-20
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 04:16:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	55971	2	Standard
	Cl	**37**		ug/L			3935892	4208511	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	547082	2	Standard
|	**Cr**	**52**	**12.921**	ug/L	0.209	1	14729	269332	3	Standard
⌊	**Cr**	**53**	**13.120**	ug/L	0.362	2	130	30354	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19148	4	KED
|	**Cu**	**63**	**5.286**	ug/L	0.206	3	35	11464	0	KED
|	**Cu**	**65**	**5.335**	ug/L	0.267	5	25	5790	0	KED
|	**Zn**	**66**	**34.872**	ug/L	0.775	2	24	10189	2	KED
|	**Zn**	**67**	**34.124**	ug/L	0.857	2	1	1687	3	KED
⌊	**As**	**75**	**4.450**	ug/L	0.163	3	7	662	4	KED
	Y	**89**		ug/L			261919	379850	1	Standard
	Kr	**83**		ug/L			60	97	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	8187	0	KED
|	**Cd**	**111**	**0.225**	ug/L	0.012	5	2	60	5	KED
⌊	**Cd**	**114**	**0.213**	ug/L	0.035	16	3	136	16	KED
⌈>	**In**	**115**		ug/L			388851	373826	2	Standard
⌊	**Ag**	**107**	**0.042**	ug/L	0.002	3	59	590	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	623887	2	Standard
⌊	**Pb**	**208**	**3.505**	ug/L	0.016	0	110	147227	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:19:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36131	2	Standard
	Cl	**37**		ug/L			3935892	4029611	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	494404	3	Standard
|	**Cr**	**52**	**0.012**	ug/L	0.017	144	14729	14511	1	Standard
⌊	**Cr**	**53**	**0.347**	ug/L	0.023	6	130	848	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18504	5	KED
|	**Cu**	**63**	**0.006**	ug/L	0.004	65	35	38	18	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.013	518	25	15	90	KED
|	**Zn**	**66**	**0.002**	ug/L	0.011	489	24	18	15	KED
|	**Zn**	**67**	**0.093**	ug/L	0.087	92	1	5	66	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.006	254	7	5	19	KED
	Y	**89**		ug/L			261919	259304	3	Standard
	Kr	**83**		ug/L			60	52	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7531	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.004	111	2	3	25	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.015	236	3	7	111	KED
⌈>	**In**	**115**		ug/L			388851	393904	3	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	15	59	33	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	621123	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	160	110	131	24	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:22:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35362	3	Standard
	Cl	**37**		ug/L			3935892	4231043	3	Standard
>	**Sc**	**45**		ug/L			508823	493577	4	Standard
	Cr	**52**	**49.083**	ug/L	0.661	1	14729	882835	4	Standard
	Cr	**53**	**49.041**	ug/L	0.657	1	130	102047	5	Standard
>	**Ge**	**72**		ug/L			25706	18460	6	KED
	Cu	**63**	**59.107**	ug/L	1.870	3	35	123328	2	KED
	Cu	**65**	**57.581**	ug/L	2.332	4	25	60067	1	KED
	Zn	**66**	**54.866**	ug/L	1.313	2	24	15441	3	KED
	Zn	**67**	**54.256**	ug/L	1.386	2	1	2586	6	KED
	As	**75**	**52.208**	ug/L	0.255	0	7	7433	5	KED
	Y	**89**		ug/L			261919	257094	3	Standard
	Kr	**83**		ug/L			60	67	13	Standard
>	**In-1**	**115**		ug/L			7141	7549	2	KED
	Cd	**111**	**49.823**	ug/L	0.725	1	2	11761	0	KED
	Cd	**114**	**49.496**	ug/L	0.980	1	3	28407	0	KED
>	**In**	**115**		ug/L			388851	378296	3	Standard
	Ag	**107**	**50.703**	ug/L	1.395	2	59	646808	3	Standard
>	**Tb**	**159**		ug/L			618478	611644	3	Standard
	Pb	**208**	**51.216**	ug/L	0.698	1	110	2107525	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:29:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35789	0	Standard
	Cl	**37**		ug/L			3935892	3974937	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	486489	3	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.012	85	14729	14330	2	Standard
⌊	**Cr**	**53**	**0.335**	ug/L	0.010	2	130	809	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	17916	4	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	147	35	20	32	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.001	36	25	14	7	KED
|	**Zn**	**66**	**-0.019**	ug/L	0.016	79	24	12	39	KED
|	**Zn**	**67**	**0.027**	ug/L	0.064	233	1	2	114	KED
⌊	**As**	**75**	**0.002**	ug/L	0.008	309	7	5	21	KED
	Y	**89**		ug/L			261919	251168	2	Standard
	Kr	**83**		ug/L			60	40	23	Standard
⌈>	**In-1**	**115**		ug/L			7141	7509	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.010	1174	2	3	69	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.009	290	3	5	89	KED
⌈>	**In**	**115**		ug/L			388851	376371	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	94	59	64	10	Standard
⌈>	**Tb**	**159**		ug/L			618478	609475	2	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	49	110	93	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:32:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39255	2	Standard
	Cl	**37**		ug/L			3935892	4167603	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	558656	4	Standard
|	**Cr**	**52**	**0.071**	ug/L	0.014	20	14729	17591	4	Standard
⌊	**Cr**	**53**	**0.267**	ug/L	0.009	3	130	771	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18375	5	KED
|	**Cu**	**63**	**0.006**	ug/L	0.003	52	35	38	20	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.003	57	25	12	22	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.036	778	24	16	65	KED
|	**Zn**	**67**	**0.026**	ug/L	0.027	103	1	2	43	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.012	416	7	4	33	KED
	Y	**89**		ug/L			261919	290172	4	Standard
	Kr	**83**		ug/L			60	52	21	Standard
⌈>	**In-1**	**115**		ug/L			7141	8085	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	78	2	2	21	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.000	5	3	5	0	KED
⌈>	**In**	**115**		ug/L			388851	408997	4	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.002	387	59	68	33	Standard
⌈>	**Tb**	**159**		ug/L			618478	658175	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	49	110	161	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:35:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38182	2	Standard
	Cl	**37**		ug/L			3935892	4187240	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	583490	1	Standard
|	**Cr**	**52**	**0.040**	ug/L	0.010	25	14729	17719	2	Standard
⌊	**Cr**	**53**	**0.243**	ug/L	0.007	3	130	747	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19517	4	KED
|	**Cu**	**63**	**0.001**	ug/L	0.005	862	35	27	34	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.004	89	25	14	30	KED
|	**Zn**	**66**	**-0.006**	ug/L	0.004	78	24	17	11	KED
|	**Zn**	**67**	**0.047**	ug/L	0.039	82	1	3	50	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.004	492	7	5	13	KED
	Y	**89**		ug/L			261919	296408	1	Standard
	Kr	**83**		ug/L			60	69	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	8165	4	KED
|	**Cd**	**111**	**0.005**	ug/L	0.009	198	2	4	53	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.000	13	3	5	1	KED
⌈>	**In**	**115**		ug/L			388851	417711	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	317	59	58	31	Standard
⌈>	**Tb**	**159**		ug/L			618478	665365	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	63	110	144	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:39:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39750	3	Standard
	Cl	**37**		ug/L			3935892	4218484	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	579532	1	Standard
|	**Cr**	**52**	**0.048**	ug/L	0.017	35	14729	17768	2	Standard
⌊	**Cr**	**53**	**0.221**	ug/L	0.001	0	130	688	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19411	4	KED
|	**Cu**	**63**	**0.005**	ug/L	0.004	76	35	37	20	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.003	94	25	15	18	KED
|	**Zn**	**66**	**-0.012**	ug/L	0.015	123	24	15	33	KED
|	**Zn**	**67**	**0.023**	ug/L	0.045	194	1	2	86	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.013	764	7	5	36	KED
	Y	**89**		ug/L			261919	304191	2	Standard
	Kr	**83**		ug/L			60	65	1	Standard
⌈>	**In-1**	**115**		ug/L			7141	8096	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.006	553	2	3	41	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.008	838	3	3	137	KED
⌈>	**In**	**115**		ug/L			388851	426597	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	28	59	46	10	Standard
⌈>	**Tb**	**159**		ug/L			618478	670699	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	48	110	150	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:42:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37932	1	Standard
	Cl	**37**		ug/L			3935892	3835604	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	490492	1	Standard
|	**Cr**	**52**	**-0.034**	ug/L	0.024	70	14729	13610	3	Standard
⌊	**Cr**	**53**	**0.263**	ug/L	0.011	4	130	669	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18256	4	KED
|	**Cu**	**63**	**0.004**	ug/L	0.005	127	35	33	28	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.005	170	25	15	33	KED
|	**Zn**	**66**	**0.120**	ug/L	0.040	33	24	50	21	KED
|	**Zn**	**67**	**0.133**	ug/L	0.008	5	1	7	0	KED
⌊	**As**	**75**	**0.001**	ug/L	0.011	1112	7	5	25	KED
	Y	**89**		ug/L			261919	249996	2	Standard
	Kr	**83**		ug/L			60	48	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	7163	0	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.007	86975	2	2	57	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	180	3	4	44	KED
⌈>	**In**	**115**		ug/L			388851	378838	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	42	59	40	20	Standard
⌈>	**Tb**	**159**		ug/L			618478	596430	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	11	110	57	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:45:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39350	2	Standard
	Cl	**37**		ug/L			3935892	3901739	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	494241	2	Standard
|	**Cr**	**52**	**-0.037**	ug/L	0.013	34	14729	13657	3	Standard
⌊	**Cr**	**53**	**0.275**	ug/L	0.012	4	130	698	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	17631	2	KED
|	**Cu**	**63**	**0.003**	ug/L	0.004	109	35	31	21	KED
|	**Cu**	**65**	**0.000**	ug/L	0.009	2201	25	17	49	KED
|	**Zn**	**66**	**0.031**	ug/L	0.044	143	24	25	48	KED
|	**Zn**	**67**	**0.027**	ug/L	0.024	87	1	2	43	KED
⌊	**As**	**75**	**0.002**	ug/L	0.014	633	7	5	33	KED
	Y	**89**		ug/L			261919	248488	2	Standard
	Kr	**83**		ug/L			60	51	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7183	3	KED
|	**Cd**	**111**	**0.013**	ug/L	0.006	50	2	5	28	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.011	241	3	6	97	KED
⌈>	**In**	**115**		ug/L			388851	378376	2	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	2	59	30	0	Standard
⌈>	**Tb**	**159**		ug/L			618478	587861	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	5	110	58	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:49:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	40232	1	Standard
	Cl	**37**		ug/L			3935892	3860857	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	494660	2	Standard
|	**Cr**	**52**	**-0.040**	ug/L	0.017	41	14729	13612	2	Standard
⌊	**Cr**	**53**	**0.262**	ug/L	0.018	6	130	673	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18347	4	KED
|	**Cu**	**63**	**0.001**	ug/L	0.004	367	35	27	33	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.008	225	25	14	52	KED
|	**Zn**	**66**	**0.039**	ug/L	0.014	35	24	28	13	KED
|	**Zn**	**67**	**0.094**	ug/L	0.084	88	1	5	66	KED
⌊	**As**	**75**	**0.007**	ug/L	0.009	124	7	6	17	KED
	Y	**89**		ug/L			261919	251181	1	Standard
	Kr	**83**		ug/L			60	47	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7421	3	KED
|	**Cd**	**111**	**0.002**	ug/L	0.008	373	2	3	56	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.007	531	3	3	125	KED
⌈>	**In**	**115**		ug/L			388851	371104	1	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.001	29	59	35	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	591821	0	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	2	110	40	4	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00033	Instrument:	ICPMS2
Calibration Date:	01/12/2023 15:38		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Chromium-53	0	0	0.5	2582	10	2226.7	20	2183.75	50	2174.02	100	2177.22

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00033	Instrument:	ICPMS2
Calibration Date:	01/12/2023 15:38		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Chromium-53	1890.615	49.7	1.0000		0.998	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MS **Sequence:** SLAΦ147 **Cal:** GAΦΦΦ33

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	LΦ439		
		-CAL2	LΦ149		
		-CAL3	LΦ15Φ		
		-CAL4	LΦ151		
		-CAL5	LΦ44Φ		
		-CAL6	LΦ152		
		-IBL1	—		
		-ICV1	LΦ243		
		-ICB1	LΦ439		
		-CCV1	LΦ44Φ		
		-CCB1	LΦ439		
	✓	-CRL1	—		std made noisy - Multiple ↑
		-CRL1	LΦ149		
		-IFA1	LΦ394		Cr^{53} ↑
		-IFB1	LΦ395		
		-HCV1	LΦ232		
		-HCV2	LΦ233		Zn↓ - Zn<200
		-IBL2	—		
		-CCV2			
		-CCB2			
		BLAΦ278-BLK1	REN		
		-BS1			
		23AΦ19Φ-Φ1		2	
		23AΦ192-Φ1		5	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ192-Φ2	REN	5	
		22LΦ435-Φ1	↓	↓	Be only
		BLAΦΦ15-DUP3	↓	↓	↓
		↓ -MS3	↓	↓	↓
		↓ -MSD3	↓	↓	↓
		SEQ-IBL3			
	✓	↓ -CCV3			Ge sl. noisy
		↓ -CCV3			
		↓ -CCB3			
		23AΦ192-Φ3	REN		Zn↑ Zn NR
		↓ -Φ4	↓		
		23AΦ191-Φ1	↓		
		BLAΦ278-DUP1	↓		
		↓ -MS1	↓		
		↓ -MSD1	↓		
		23AΦ126-Φ1	↓	2	
		↓ -Φ2	↓	↓	
		↓ -Φ3	↓	↓	
		23AΦ192-Φ3RE1	↓	5	Zn only
		SEQ-CCV4			
		↓ -CCB4			
	✓	↓ -CAL1			Ba, Be, Ni, Se Removed
		↓ -CCV5			
		↓ -CCB5			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ6Φ8-BLK2	SWN	20	Ag only
		↓ -BS2	↓	↓	↓
		BLAΦ224-BLK1			Pb > ½RL
		↓ -BS1			
		22KΦ328-17RE1			Cu, Zn ↑ / Pb > 10x BLK cont. Cu, Zn NR
		BLAΦ224-DUP1			/ Cr Pb RPD↑
		-MS1			/ ~~Pb %R↓~~ Pb STL /
		↓ -MSD1		↓	↓ / ~~Pb %R↑~~ ↓ ↓
		22LΦ383-Φ2	↓	50	Ag, Cr only
		SEQ-IBL4			
		↓ -CCV6			
		↓ -CCB6			Ge noisy-%R + Analytes OK
		22KΦ328-17RE2	SWN	100	Cu, Zn only
		BLAΦ224-DUP2			Cu, Zn RPD↑
		-MS2			Cu STL / Zn %R↑
		↓ -MSD2		↓	↓ ↓ ↓
		22LΦ329-Φ7		50	In sl. noisy-%R + Analytes OK Ag, Cr only
		BKLΦ6Φ8-DUP2			
		-MS2			Ag %R↓
		-MSD2			↓
		↓ -PS2	↓	↓	60.uL K7409 ↓
		SEQ-IBL5			
		↓ -CCV7			
		↓ -CCB7			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	22LΦ383-Φ3	SWN	2050	Ag, Cr only
		-Φ4		50	
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		22LΦ417-Φ1			
		-Φ2			
		-Φ3			
		SEQ-IBL6			
		-CCV8			Sc, In, Tb noisy
		-CCB8			
		BLAΦ516-BLK1	SWN	20	
		-BS1			
	✓	22LΦ417-Φ4		50	Ag, Cr only
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		-Φ9			
	OK ~~X~~	23AΦ1Φ9-Φ1			Zn only
		SEQ-IBL7			
		-CCV9			
		-CCB9			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ617-Φ1	REN	2	Cr only
		22LΦ459-Φ1	SWN	20	
		-Φ2	↓	↓	
		-Φ3	↓	↓	
		-Φ4	↓	↓	
		-Φ5	↓	↓	
		-Φ6	↓	↓	
		-Φ7	↓	↓	
		23AΦ114-Φ1	↓	↓	
		SEQ-IBL8			
		-CCVA			
		-CCBA			
	✓	-CAL1			
		-CCVB			
		-CCBB			
		22LΦ589-Φ1	REN	5	Zn only
		22LΦ599-Φ1	↓	↓	Cu only
		22LΦ598-Φ1	↓	↓	Cr only
		BLAΦ234-DUP2	↓	↓	↓
		-MS2	↓	↓	
		23AΦΦ11-Φ1	SWN	20	
		BLAΦ156-DUP1	↓	↓	
		-MS1	↓	↓	
		-MSD1	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ~~~~ **Cal:** ~~~~

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBL9			
		-CCVC			Ag sl. noisy - Value OK
		-CCBC			Sc, In sl. noisy - %R of Analytes OK
		22L0649-01	REN		Ge↓ Pb only
	✓	22L0650-01			Sc, Ge, In^{-1}, In, Tb↓/Zn↑ (Salty!)
	✓	22L0651-01			↓ ↓
		22L0653-01			
		22L0655-01		5	
		22L0656-01			
		22L0660-03			
		↓ -05	↓	2	
	↓	23A0011-02	SWN	20	
		SEQ-IBLA			(Cr^{53}↑)
		-CCVD			Cu↑/Ge sl. noisy As sl. noisy
		-CCBD			Ge↓/Cr^{53}↑
	✓	23A0011-03	SWN	20	↓
	↓	↓ -04	↓	↓	
		-05			
		-06			
		-07			
		-08			
		-09			
		-10			
	↓	↓ -11	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBLB			(Cr^{53} ↑ / Sc, Tb sl. noisy)
		-CCVE			Cu^{63} ↑
		-CCBE			Ge↓ / Cr^{53} ↑
	✓	23AΦΦ11-12	SWN	20	
		-13			Ge↓
		-14			Ge sl. noisy
		-15			
		-16			
		-17			
		-18			
		-19			
		-2Φ			
		SEQ-IBLC			
		-CCVF			Cu^{63} ↑ / Ge sl. noisy / Zn^{67} sl. noisy
		-CCBF			Ge↓
		Rinse/DI			
			MB	1/12/23	

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, January 12, 2023 13:29:15
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4937
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	10029.7	10029.654	152.363	1.5	Standard
	In	114.9	67914.8	67914.794	571.230	0.8	Standard
	U	238.1	56679.5	56679.485	209.441	0.4	Standard
⌈	CeO	155.9	1090.6	0.017	0.001	3.8	Standard
| >	Ce	139.9	64240.5	64240.521	447.105	0.7	Standard
⌊	Ce++	70.0	1636.3	0.025	0.001	2.6	Standard
	Bkgd	220.0	0.1	0.067	0.091	136.9	Standard

Current Conditions File Data

Current Value	Description
1.04	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1637.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.04	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:29:07 PM
End Time: 1/12/2023 1:39:52 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 10029.65
Obtained Intensity (In 115): 67914.79
Obtained Intensity (U 238): 56679.49
Obtained Intensity (Bkgd 220): 0.07
Obtained Formula (Ce++ 70 / Ce 140): 0.025 (=1636.29 / 64240.52)
Obtained Formula (CeO 156 / Ce 140): 0.017 (=1090.58 / 64240.52)
Obtained RSD (Be 9): 0.0152
Obtained RSD (In 115): 0.0084
Obtained RSD (U 238): 0.0037

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.13 mm	-0.48 mm	68683.71

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.04
Obtained Intensity (In 115): 66953.53
Obtained Formula (CeO 156 / Ce 140): 0.0214 (=1325.06 / 62034.40)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.711)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.718)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.971; Intercept = -12.04

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.999; Intercept = -12.96

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:29:07 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 10029.65
		Obtained Intensity (In 115): 67914.79
		Obtained Intensity (U 238): 56679.49
		Obtained Intensity (Bkgd 220): 0.07
		Obtained Formula (Ce++ 70 / Ce 140): 0.025 (=1636.29 / 64240.52)
		Obtained Formula (CeO 156 / Ce 140): 0.017 (=1090.58 / 64240.52)
		Obtained RSD (Be 9): 0.0152
		Obtained RSD (In 115): 0.0084
		Obtained RSD (U 238): 0.0037

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.13 mm	-0.48 mm	68683.71

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 1/1.1/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 66953.53
		Obtained Formula (CeO 156 / Ce 140): 0.0214 (=1325.06 / 62034.40)
[Passed] Optimum value(s): 1.04

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.711)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.718)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.971; Intercept = -12.04

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-12.5	44541.3
Mg	24	41	-12.5	43269.4
In	115	41	-10.5	70079.5
Ce	140	41	-8	67262
Pb	208	41	-7	32885.8
U	238	41	-7	59620.2

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.999; Intercept = -12.96

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	32104
Mg	24	41	-13	25891.4
In	115	41	-9.5	45091
Ce	140	41	-8.5	50798.2
Pb	208	41	-6.5	25486.7
U	238	41	-7	40798.2

End Time: 1/12/2023 1:39:52 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:39:58 PM
End Time: 1/12/2023 1:41:04 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.990; Intercept = -12.64

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:39:58 PM

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.990; Intercept = -12.64

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	45103.1
Mg	24	41	-13	41540.3
In	115	41	-10	68130.1
Ce	140	41	-8	64272.3
Pb	208	41	-7	34810.4
U	238	41	-7	60403.4

End Time: 1/12/2023 1:41:04 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, January 12, 2023 13:41:30
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4944
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	10265.9	10265.889	220.644	2.1	Standard
	In	114.9	70299.7	70299.659	1278.193	1.8	Standard
	U	238.1	59821.7	59821.731	506.916	0.8	Standard
⌈	CeO	155.9	1201.4	0.018	0.000	1.6	Standard
| >	Ce	139.9	66719.9	66719.871	1041.898	1.6	Standard
⌊	Ce++	70.0	1704.8	0.026	0.001	3.1	Standard
	Bkgd	220.0	0.0	0.000	0.000		Standard

Current Conditions File Data

Current Value	Description
1.04	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1637.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.04	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:41:29 PM
End Time: 1/12/2023 1:43:34 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 10265.89
Obtained Intensity (In 115): 70299.66
Obtained Intensity (U 238): 59821.73
Obtained Intensity (Bkgd 220): 0.00
Obtained Formula (Ce++ 70 / Ce 140): 0.026 (=1704.77 / 66719.87)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1201.38 / 66719.87)
Obtained RSD (Be 9): 0.0215
Obtained RSD (In 115): 0.0182
Obtained RSD (U 238): 0.0085

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:41:29 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 1
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 10265.89
Obtained Intensity (In 115): 70299.66
Obtained Intensity (U 238): 59821.73
Obtained Intensity (Bkgd 220): 0.00
Obtained Formula (Ce++ 70 / Ce 140): 0.026 (=1704.77 / 66719.87)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1201.38 / 66719.87)
Obtained RSD (Be 9): 0.0215
Obtained RSD (In 115): 0.0182
Obtained RSD (U 238): 0.0085

[Passed] Optimum value(s): N/A

End Time: 1/12/2023 1:43:34 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:38:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L				766222	1	Standard
⌊	**Be**	**9**		ug/L				7	86	Standard
	C	**13**		ug/L				36839	2	Standard
	Cl	**37**		ug/L				4390964	0	Standard
⌈>	**Sc**	**45**		ug/L				538647	2	Standard
⌈	**Cr**	**52**		ug/L				15443	1	Standard
⌊	**Cr**	**53**		ug/L				178	9	Standard
⌈>	**Ge**	**72**		ug/L				26915	2	KED
⌈	**Ni**	**60**		ug/L				40	32	KED
⌈	**Ni**	**62**		ug/L				6	31	KED
⌈	**Cu**	**63**		ug/L				46	45	KED
⌈	**Cu**	**65**		ug/L				30	32	KED
⌈	**Zn**	**66**		ug/L				35	25	KED
⌈	**Zn**	**67**		ug/L				6	41	KED
⌈	**As**	**75**		ug/L				7	6	KED
⌊	**Se**	**78**		ug/L				14	13	KED
	Y	**89**		ug/L				287925	2	Standard
	Kr	**83**		ug/L				53	18	Standard
⌈>	**In-1**	**115**		ug/L				7687	1	KED
⌈	**Cd**	**111**		ug/L				4	13	KED
⌊	**Cd**	**114**		ug/L				7	53	KED
⌈>	**In**	**115**		ug/L				427037	1	Standard
⌈	**Ag**	**107**		ug/L				100	9	Standard
⌈	**Ba**	**135**		ug/L				78	14	Standard
⌊	**Ba**	**137**		ug/L				142	3	Standard
⌈>	**Tb**	**159**		ug/L				675781	1	Standard
⌊	**Pb**	**208**		ug/L				179	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:43:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	749267	1	Standard
⌊	**Be**	**9**	**0.200**	ug/L	0.011	5	7	1612	6	Standard
	C	**13**		ug/L			36839	43986	2	Standard
	Cl	**37**		ug/L			4390964	4242289	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	530824	2	Standard
⌈	**Cr**	**52**	**0.500**	ug/L	0.005	0	15443	25265	3	Standard
⌊	**Cr**	**53**	**0.500**	ug/L	0.015	2	178	1291	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	27192	0	KED
⌈	**Ni**	**60**	**0.500**	ug/L	0.011	2	40	610	2	KED
⌈	**Ni**	**62**	**0.500**	ug/L	0.048	9	6	102	9	KED
⌈	**Cu**	**63**	**0.500**	ug/L	0.035	6	46	1698	6	KED
⌈	**Cu**	**65**	**0.500**	ug/L	0.029	5	30	777	5	KED
⌈	**Zn**	**66**	**6.000**	ug/L	0.212	3	35	2756	3	KED
⌈	**Zn**	**67**	**6.000**	ug/L	0.177	2	6	375	2	KED
⌈	**As**	**75**	**0.200**	ug/L	0.043	21	7	49	18	KED
⌊	**Se**	**78**	**0.500**	ug/L	0.285	56	14	26	25	KED
	Y	**89**		ug/L			287925	280451	3	Standard
	Kr	**83**		ug/L			53	62	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7828	1	KED
⌈	**Cd**	**111**	**0.100**	ug/L	0.011	10	4	26	7	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.018	17	7	53	16	KED
⌈>	**In**	**115**		ug/L			427037	408494	3	Standard
⌈	**Ag**	**107**	**0.200**	ug/L	0.005	2	100	3027	1	Standard
⌈	**Ba**	**135**	**0.500**	ug/L	0.020	3	78	1998	3	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.013	2	142	3333	5	Standard
⌈>	**Tb**	**159**		ug/L			675781	674031	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.003	2	179	5101	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:47:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	726427	3	Standard
⌊	**Be**	**9**	**10.000**	ug/L	0.253	2	7	76651	5	Standard
	C	**13**		ug/L			36839	51352	1	Standard
	Cl	**37**		ug/L			4390964	4190483	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	532341	4	Standard
⌈	**Cr**	**52**	**9.999**	ug/L	0.187	1	15443	206546	3	Standard
⌊	**Cr**	**53**	**10.000**	ug/L	0.218	2	178	22267	5	Standard
⌈>	**Ge**	**72**		ug/L			26915	28378	0	KED
⌈	**Ni**	**60**	**9.998**	ug/L	0.097	0	40	11085	0	KED
⌊	**Ni**	**62**	**9.998**	ug/L	0.084	0	6	1840	1	KED
⌈	**Cu**	**63**	**9.999**	ug/L	0.309	3	46	32912	3	KED
⌊	**Cu**	**65**	**10.001**	ug/L	0.168	1	30	16195	2	KED
⌈	**Zn**	**66**	**9.900**	ug/L	0.160	1	35	4595	2	KED
⌊	**Zn**	**67**	**10.332**	ug/L	0.567	5	6	736	6	KED
⌈	**As**	**75**	**10.000**	ug/L	0.255	2	7	2168	1	KED
⌊	**Se**	**78**	**10.000**	ug/L	0.425	4	14	259	4	KED
	Y	**89**		ug/L			287925	276328	4	Standard
	Kr	**83**		ug/L			53	50	29	Standard
⌈>	**In-1**	**115**		ug/L			7687	8004	1	KED
⌈	**Cd**	**111**	**10.000**	ug/L	0.474	4	4	2540	3	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.555	5	7	6059	4	KED
⌈>	**In**	**115**		ug/L			427037	416644	4	Standard
⌈	**Ag**	**107**	**10.000**	ug/L	0.400	4	100	144529	3	Standard
⌈	**Ba**	**135**	**9.999**	ug/L	0.286	2	78	37533	2	Standard
⌊	**Ba**	**137**	**10.000**	ug/L	0.174	1	142	65461	3	Standard
⌈>	**Tb**	**159**		ug/L			675781	673759	2	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.088	0	179	469128	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:52:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	731224	2	Standard
⌊	**Be**	**9**	**19.828**	ug/L	0.413	2	7	147874	4	Standard
	C	**13**		ug/L			36839	50965	1	Standard
	Cl	**37**		ug/L			4390964	4351704	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	532438	4	Standard
⌈	**Cr**	**52**	**19.904**	ug/L	0.578	2	15443	388864	2	Standard
⌊	**Cr**	**53**	**19.938**	ug/L	0.316	1	178	43675	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	27720	2	KED
⌈	**Ni**	**60**	**19.997**	ug/L	0.505	2	40	21599	1	KED
⌊	**Ni**	**62**	**19.909**	ug/L	0.247	1	6	3509	1	KED
⌈	**Cu**	**63**	**20.014**	ug/L	0.556	2	46	64461	1	KED
⌊	**Cu**	**65**	**20.022**	ug/L	0.111	0	30	31775	2	KED
⌈	**Zn**	**66**	**19.955**	ug/L	1.073	5	35	8944	3	KED
⌊	**Zn**	**67**	**20.129**	ug/L	1.214	6	6	1420	4	KED
⌈	**As**	**75**	**20.009**	ug/L	0.388	1	7	4238	0	KED
⌊	**Se**	**78**	**19.846**	ug/L	1.116	5	14	473	5	KED
	Y	**89**		ug/L			287925	278139	2	Standard
	Kr	**83**		ug/L			53	61	6	Standard
⌈>	**In-1**	**115**		ug/L			7687	7809	2	KED
⌈	**Cd**	**111**	**20.065**	ug/L	0.750	3	4	5034	1	KED
⌊	**Cd**	**114**	**20.075**	ug/L	0.723	3	7	12040	1	KED
⌈>	**In**	**115**		ug/L			427037	417883	3	Standard
⌈	**Ag**	**107**	**20.000**	ug/L	0.234	1	100	290050	3	Standard
⌈	**Ba**	**135**	**19.967**	ug/L	0.193	0	78	74637	2	Standard
⌊	**Ba**	**137**	**20.008**	ug/L	0.261	1	142	131442	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	675064	3	Standard
⌊	**Pb**	**208**	**19.889**	ug/L	0.555	2	179	913755	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:58:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	729892	0	Standard
⌊	**Be**	**9**	**49.807**	ug/L	1.480	2	7	363595	2	Standard
	C	**13**		ug/L			36839	36503	3	Standard
	Cl	**37**		ug/L			4390964	4508448	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	518676	0	Standard
⌈	**Cr**	**52**	**50.024**	ug/L	0.139	0	15443	932387	0	Standard
⌊	**Cr**	**53**	**50.171**	ug/L	0.545	1	178	108701	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26921	0	KED
⌈	**Ni**	**60**	**50.007**	ug/L	1.069	2	40	52448	2	KED
⌈	**Ni**	**62**	**49.996**	ug/L	1.299	2	6	8545	2	KED
⌈	**Cu**	**63**	**49.727**	ug/L	0.842	1	46	151403	1	KED
⌈	**Cu**	**65**	**49.896**	ug/L	1.306	2	30	76068	2	KED
⌈	**Zn**	**66**	**49.471**	ug/L	0.458	0	35	20489	1	KED
⌈	**Zn**	**67**	**50.214**	ug/L	1.966	3	6	3502	3	KED
⌈	**As**	**75**	**49.986**	ug/L	0.365	0	7	10261	0	KED
⌊	**Se**	**78**	**49.769**	ug/L	1.081	2	14	1107	1	KED
	Y	**89**		ug/L			287925	278053	2	Standard
	Kr	**83**		ug/L			53	71	13	Standard
⌈>	**In-1**	**115**		ug/L			7687	7760	1	KED
⌈	**Cd**	**111**	**49.820**	ug/L	0.448	0	4	12202	1	KED
⌊	**Cd**	**114**	**50.128**	ug/L	0.558	1	7	30266	0	KED
⌈>	**In**	**115**		ug/L			427037	411040	2	Standard
⌈	**Ag**	**107**	**49.673**	ug/L	1.849	3	100	685761	2	Standard
⌈	**Ba**	**135**	**49.992**	ug/L	0.277	0	78	183585	1	Standard
⌊	**Ba**	**137**	**49.997**	ug/L	1.127	2	142	322732	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	668197	0	Standard
⌊	**Pb**	**208**	**49.923**	ug/L	0.474	0	179	2254160	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:04:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	713212	5	Standard
⌊	**Be**	**9**	**100.604**	ug/L	4.435	4	7	731261	2	Standard
	C	**13**		ug/L			36839	48732	0	Standard
	Cl	**37**		ug/L			4390964	4602583	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	515531	4	Standard
⌈	**Cr**	**52**	**100.414**	ug/L	1.880	1	15443	1870008	2	Standard
⌊	**Cr**	**53**	**100.284**	ug/L	1.948	1	178	217722	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	26421	5	KED
⌈	**Ni**	**60**	**100.292**	ug/L	0.781	0	40	104183	4	KED
⌈	**Ni**	**62**	**99.672**	ug/L	1.206	1	6	16539	6	KED
⌈	**Cu**	**63**	**100.022**	ug/L	0.630	0	46	299031	4	KED
⌈	**Cu**	**65**	**99.987**	ug/L	1.502	1	30	149502	4	KED
⌈	**Zn**	**66**	**99.769**	ug/L	0.432	0	35	40215	5	KED
⌈	**Zn**	**67**	**99.939**	ug/L	0.753	0	6	6821	5	KED
⌈	**As**	**75**	**100.343**	ug/L	0.670	0	7	20441	4	KED
⌊	**Se**	**78**	**100.816**	ug/L	2.914	2	14	2247	4	KED
	Y	**89**		ug/L			287925	275194	5	Standard
	Kr	**83**		ug/L			53	104	4	Standard
⌈>	**In-1**	**115**		ug/L			7687	7735	1	KED
⌈	**Cd**	**111**	**99.727**	ug/L	2.090	2	4	24127	3	KED
⌊	**Cd**	**114**	**99.307**	ug/L	1.276	1	7	58421	2	KED
⌈>	**In**	**115**		ug/L			427037	407347	3	Standard
⌈	**Ag**	**107**	**100.118**	ug/L	1.666	1	100	1375217	2	Standard
⌈	**Ba**	**135**	**100.456**	ug/L	1.112	1	78	371077	2	Standard
⌊	**Ba**	**137**	**100.613**	ug/L	1.898	1	142	656815	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	671322	4	Standard
⌊	**Pb**	**208**	**99.871**	ug/L	2.608	2	179	4507633	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:12:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	736268	0	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	63	7	20	41	Standard
	C	**13**		ug/L			36839	35959	2	Standard
	Cl	**37**		ug/L			4390964	4365430	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	533734	1	Standard
⌈	**Cr**	**52**	**0.003**	ug/L	0.027	835	15443	15359	1	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.008	92	178	158	11	Standard
⌈>	**Ge**	**72**		ug/L			26915	26679	2	KED
⌈	**Ni**	**60**	**0.003**	ug/L	0.012	383	40	43	31	KED
⌈	**Ni**	**62**	**0.023**	ug/L	0.016	70	6	10	26	KED
⌈	**Cu**	**63**	**-0.007**	ug/L	0.001	16	46	26	14	KED
⌈	**Cu**	**65**	**-0.011**	ug/L	0.001	5	30	13	7	KED
⌈	**Zn**	**66**	**-0.029**	ug/L	0.003	9	35	23	4	KED
⌈	**Zn**	**67**	**-0.072**	ug/L	0.029	39	6	1	100	KED
⌈	**As**	**75**	**0.006**	ug/L	0.001	15	7	8	3	KED
⌊	**Se**	**78**	**0.009**	ug/L	0.100	1163	14	14	16	KED
	Y	**89**		ug/L			287925	279770	0	Standard
	Kr	**83**		ug/L			53	62	26	Standard
⌈>	**In-1**	**115**		ug/L			7687	7380	1	KED
⌈	**Cd**	**111**	**0.005**	ug/L	0.003	54	4	5	10	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.007	106	7	3	100	KED
⌈>	**In**	**115**		ug/L			427037	428595	0	Standard
⌈	**Ag**	**107**	**0.006**	ug/L	0.001	19	100	191	8	Standard
⌈	**Ba**	**135**	**-0.014**	ug/L	0.001	8	78	22	19	Standard
⌊	**Ba**	**137**	**-0.015**	ug/L	0.001	9	142	39	24	Standard
⌈>	**Tb**	**159**		ug/L			675781	676243	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	202	179	183	3	Standard

Sample Information

Sample Date/Time: Thursday, January 12, 2023 16:04:52
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	**0.9999**	0.010	0.20	10	20	50	100
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.036	0.50	10	20	50	100
Cr	53	**1.0000**	0.004	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.039	0.50	10	20	50	100
Ni	62	**1.0000**	0.006	0.50	10	20	50	100
Cu	63	**1.0000**	0.113	0.50	10	20	50	100
Cu	65	**1.0000**	0.057	0.50	10	20	50	100
Zn	66	**0.9999**	0.015	6.00	10	20	50	100
Zn	67	**1.0000**	0.003	6.00	10	20	50	100
As	75	**1.0000**	0.008	0.20	10	20	50	100
Se	78	**0.9999**	0.001	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.031	0.10	10	20	50	100
Cd	114	**0.9999**	0.076	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.034	0.20	10	20	50	100
Ba	135	**1.0000**	0.009	0.50	10	20	50	100
Ba	137	**0.9999**	0.016	0.50	10	20	50	100
Tb	159							
Pb	208	**1.0000**	0.067	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:22:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	723248	2	Standard
⎣	**Be**	**9**	**48.744**	ug/L	1.978	4	7	359631	2	Standard
	C	**13**		ug/L			36839	45004	1	Standard
	Cl	**37**		ug/L			4390964	4607556	0	Standard
⎡>	**Sc**	**45**		ug/L			538647	540750	0	Standard
⎢	**Cr**	**52**	**48.230**	ug/L	0.312	0	15443	950640	0	Standard
⎣	**Cr**	**53**	**47.767**	ug/L	0.486	1	178	108928	0	Standard
⎡>	**Ge**	**72**		ug/L			26915	27213	1	KED
⎢	**Ni**	**60**	**50.194**	ug/L	0.501	0	40	53741	2	KED
⎢	**Ni**	**62**	**51.001**	ug/L	0.978	1	6	8717	3	KED
⎢	**Cu**	**63**	**51.067**	ug/L	1.952	3	46	157351	5	KED
⎢	**Cu**	**65**	**49.922**	ug/L	0.218	0	30	76904	1	KED
⎢	**Zn**	**66**	**49.356**	ug/L	1.404	2	35	20511	4	KED
⎢	**Zn**	**67**	**49.227**	ug/L	1.067	2	6	3464	3	KED
⎢	**As**	**75**	**46.819**	ug/L	1.219	2	7	9830	3	KED
⎣	**Se**	**78**	**75.627**	ug/L	1.604	2	14	1741	3	KED
	Y	**89**		ug/L			287925	286645	1	Standard
	Kr	**83**		ug/L			53	67	20	Standard
⎡>	**In-1**	**115**		ug/L			7687	7769	3	KED
⎢	**Cd**	**111**	**48.479**	ug/L	1.614	3	4	11772	0	KED
⎣	**Cd**	**114**	**49.075**	ug/L	1.551	3	7	28980	1	KED
⎡>	**In**	**115**		ug/L			427037	414887	2	Standard
⎢	**Ag**	**107**	**51.614**	ug/L	1.838	3	100	722029	1	Standard
⎢	**Ba**	**135**	**49.986**	ug/L	0.973	1	78	188105	1	Standard
⎣	**Ba**	**137**	**49.370**	ug/L	0.827	1	142	328400	0	Standard
⎡>	**Tb**	**159**		ug/L			675781	683207	1	Standard
⎣	**Pb**	**208**	**49.679**	ug/L	0.774	1	179	2283329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:29:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	737243	4	Standard
⎣	**Be**	**9**	**0.001**	ug/L	0.001	131	7	13	57	Standard
	C	**13**		ug/L			36839	36247	4	Standard
	Cl	**37**		ug/L			4390964	4218819	3	Standard
⎡>	**Sc**	**45**		ug/L			538647	530596	3	Standard
⎢	**Cr**	**52**	**-0.015**	ug/L	0.019	123	15443	14922	4	Standard
⎣	**Cr**	**53**	**-0.011**	ug/L	0.007	59	178	150	8	Standard
⎡>	**Ge**	**72**		ug/L			26915	27228	1	KED
⎢	**Ni**	**60**	**-0.005**	ug/L	0.004	85	40	36	10	KED
⎢	**Ni**	**62**	**0.022**	ug/L	0.027	126	6	10	44	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.003	78	46	36	20	KED
⎢	**Cu**	**65**	**-0.010**	ug/L	0.006	57	30	15	57	KED
⎢	**Zn**	**66**	**-0.041**	ug/L	0.012	28	35	19	26	KED
⎢	**Zn**	**67**	**-0.064**	ug/L	0.016	25	6	2	43	KED
⎢	**As**	**75**	**-0.003**	ug/L	0.011	411	7	6	37	KED
⎣	**Se**	**78**	**0.195**	ug/L	0.148	75	14	19	19	KED
	Y	**89**		ug/L			287925	279472	4	Standard
	Kr	**83**		ug/L			53	49	19	Standard
⎡>	**In-1**	**115**		ug/L			7687	7526	4	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.008	141	4	5	36	KED
⎣	**Cd**	**114**	**-0.007**	ug/L	0.002	29	7	3	39	KED
⎡>	**In**	**115**		ug/L			427037	421908	2	Standard
⎢	**Ag**	**107**	**0.002**	ug/L	0.002	96	100	129	22	Standard
⎢	**Ba**	**135**	**-0.016**	ug/L	0.001	3	78	17	12	Standard
⎣	**Ba**	**137**	**-0.017**	ug/L	0.000	2	142	23	12	Standard
⎡>	**Tb**	**159**		ug/L			675781	677616	3	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.000	21	179	109	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:34:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	742923	5	Standard
⎣	**Be**	**9**	**50.327**	ug/L	2.569	5	7	381003	2	Standard
	C	**13**		ug/L			36839	37063	0	Standard
	Cl	**37**		ug/L			4390964	4719746	0	Standard
⎡>	**Sc**	**45**		ug/L			538647	537726	2	Standard
⎢	**Cr**	**52**	**49.689**	ug/L	0.696	1	15443	973468	2	Standard
⎣	**Cr**	**53**	**48.975**	ug/L	0.844	1	178	111082	3	Standard
⎡>	**Ge**	**72**		ug/L			26915	26820	0	KED
⎢	**Ni**	**60**	**49.906**	ug/L	1.030	2	40	52657	2	KED
⎢	**Ni**	**62**	**51.599**	ug/L	1.017	1	6	8691	2	KED
⎢	**Cu**	**63**	**50.685**	ug/L	0.550	1	46	153862	1	KED
⎢	**Cu**	**65**	**50.870**	ug/L	0.461	0	30	77231	0	KED
⎢	**Zn**	**66**	**51.051**	ug/L	0.549	1	35	20904	0	KED
⎢	**Zn**	**67**	**50.195**	ug/L	1.088	2	6	3481	2	KED
⎢	**As**	**75**	**50.369**	ug/L	0.256	0	7	10420	0	KED
⎣	**Se**	**78**	**50.272**	ug/L	1.706	3	14	1145	3	KED
	Y	**89**		ug/L			287925	283205	5	Standard
	Kr	**83**		ug/L			53	56	7	Standard
⎡>	**In-1**	**115**		ug/L			7687	7646	0	KED
⎢	**Cd**	**111**	**49.825**	ug/L	0.237	0	4	11915	0	KED
⎣	**Cd**	**114**	**50.089**	ug/L	1.191	2	7	29123	1	KED
⎡>	**In**	**115**		ug/L			427037	422832	2	Standard
⎢	**Ag**	**107**	**49.918**	ug/L	0.752	1	100	712071	3	Standard
⎢	**Ba**	**135**	**49.645**	ug/L	0.980	1	78	190412	1	Standard
⎣	**Ba**	**137**	**48.553**	ug/L	0.649	1	142	329209	1	Standard
⎡>	**Tb**	**159**		ug/L			675781	690687	2	Standard
⎣	**Pb**	**208**	**49.577**	ug/L	1.142	2	179	2303180	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:41:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	722010	3	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	194	7	10	57	Standard
	C	**13**		ug/L			36839	36002	1	Standard
	Cl	**37**		ug/L			4390964	4269003	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	522125	2	Standard
⌈	**Cr**	**52**	**0.014**	ug/L	0.018	129	15443	15234	3	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.004	89	178	163	8	Standard
⌈>	**Ge**	**72**		ug/L			26915	26696	3	KED
⌈	**Ni**	**60**	**-0.004**	ug/L	0.018	501	40	36	46	KED
⌊	**Ni**	**62**	**0.008**	ug/L	0.017	211	6	8	35	KED
⌈	**Cu**	**63**	**-0.006**	ug/L	0.003	44	46	28	24	KED
⌊	**Cu**	**65**	**-0.010**	ug/L	0.004	36	30	15	33	KED
⌈	**Zn**	**66**	**-0.038**	ug/L	0.006	15	35	19	14	KED
⌊	**Zn**	**67**	**-0.053**	ug/L	0.060	113	6	3	124	KED
⌈	**As**	**75**	**0.004**	ug/L	0.006	148	7	7	18	KED
⌊	**Se**	**78**	**0.083**	ug/L	0.056	67	14	16	11	KED
	Y	**89**		ug/L			287925	276339	1	Standard
	Kr	**83**		ug/L			53	58	16	Standard
⌈>	**In-1**	**115**		ug/L			7687	7913	0	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.004	68	4	2	33	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.004	84	7	4	44	KED
⌈>	**In**	**115**		ug/L			427037	427221	1	Standard
⌈	**Ag**	**107**	**0.004**	ug/L	0.001	30	100	151	11	Standard
⌈	**Ba**	**135**	**-0.016**	ug/L	0.001	6	78	17	22	Standard
⌊	**Ba**	**137**	**-0.017**	ug/L	0.001	4	142	28	17	Standard
⌈>	**Tb**	**159**		ug/L			675781	680907	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	4	179	109	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:52:12

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	656771	2	Standard
⌊	**Be**	**9**	**0.326**	ug/L	0.168	51	7	2183	50	Standard
	C	**13**		ug/L			36839	38142	3	Standard
	Cl	**37**		ug/L			4390964	4104418	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	466133	2	Standard
⌈	**Cr**	**52**	**0.608**	ug/L	0.139	22	15443	23564	12	Standard
⌊	**Cr**	**53**	**0.571**	ug/L	0.133	23	178	1280	23	Standard
⌈>	**Ge**	**72**		ug/L			26915	27287	1	KED
⌈	**Ni**	**60**	**0.450**	ug/L	0.014	3	40	523	1	KED
⌊	**Ni**	**62**	**0.482**	ug/L	0.093	19	6	89	16	KED
⌈	**Cu**	**63**	**0.489**	ug/L	0.025	5	46	1558	4	KED
⌊	**Cu**	**65**	**0.498**	ug/L	0.046	9	30	800	8	KED
⌈	**Zn**	**66**	**6.214**	ug/L	0.168	2	35	2619	1	KED
⌊	**Zn**	**67**	**5.322**	ug/L	0.495	9	6	381	7	KED
⌈	**As**	**75**	**0.175**	ug/L	0.020	11	7	43	9	KED
⌊	**Se**	**78**	**0.611**	ug/L	0.189	30	14	28	14	KED
	Y	**89**		ug/L			287925	253370	5	Standard
	Kr	**83**		ug/L			53	55	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7742	3	KED
⌈	**Cd**	**111**	**0.088**	ug/L	0.030	33	4	25	24	KED
⌊	**Cd**	**114**	**0.102**	ug/L	0.013	12	7	67	13	KED
⌈>	**In**	**115**		ug/L			427037	383929	5	Standard
⌈	**Ag**	**107**	**0.317**	ug/L	0.190	59	100	4279	64	Standard
⌈	**Ba**	**135**	**0.579**	ug/L	0.162	27	78	2104	32	Standard
⌊	**Ba**	**137**	**0.581**	ug/L	0.175	30	142	3744	35	Standard
⌈>	**Tb**	**159**		ug/L			675781	620663	1	Standard
⌊	**Pb**	**208**	**0.213**	ug/L	0.194	90	179	9168	91	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:57:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	748071	2	Standard
⌊	**Be**	**9**	**0.211**	ug/L	0.013	6	7	1615	3	Standard
	C	**13**		ug/L			36839	40355	2	Standard
	Cl	**37**		ug/L			4390964	4193727	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	530437	0	Standard
⌈	**Cr**	**52**	**0.485**	ug/L	0.011	2	15443	24429	1	Standard
⌊	**Cr**	**53**	**0.477**	ug/L	0.017	3	178	1241	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	28066	0	KED
⌈	**Ni**	**60**	**0.469**	ug/L	0.025	5	40	559	4	KED
⌈	**Ni**	**62**	**0.514**	ug/L	0.060	11	6	97	10	KED
⌈	**Cu**	**63**	**0.504**	ug/L	0.030	5	46	1650	5	KED
⌈	**Cu**	**65**	**0.485**	ug/L	0.022	4	30	802	5	KED
⌈	**Zn**	**66**	**6.073**	ug/L	0.091	1	35	2635	1	KED
⌈	**Zn**	**67**	**5.280**	ug/L	0.630	11	6	389	12	KED
⌈	**As**	**75**	**0.197**	ug/L	0.027	13	7	50	10	KED
⌊	**Se**	**78**	**0.453**	ug/L	0.097	21	14	25	8	KED
	Y	**89**		ug/L			287925	278460	0	Standard
	Kr	**83**		ug/L			53	61	19	Standard
⌈>	**In-1**	**115**		ug/L			7687	8362	3	KED
⌈	**Cd**	**111**	**0.102**	ug/L	0.005	5	4	31	3	KED
⌊	**Cd**	**114**	**0.057**	ug/L	0.036	62	7	44	53	KED
⌈>	**In**	**115**		ug/L			427037	424954	0	Standard
⌈	**Ag**	**107**	**0.198**	ug/L	0.007	3	100	2940	3	Standard
⌈	**Ba**	**135**	**0.466**	ug/L	0.020	4	78	1872	4	Standard
⌊	**Ba**	**137**	**0.474**	ug/L	0.009	1	142	3369	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	677576	0	Standard
⌊	**Pb**	**208**	**0.101**	ug/L	0.004	4	179	4788	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:03:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	718001	4	Standard
⌊	**Be**	**9**	**0.007**	ug/L	0.001	7	7	60	8	Standard
	C	**13**		ug/L			36839	152416	2	Standard
	Cl	**37**		ug/L			4390964	11106228	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	521469	2	Standard
⌈	**Cr**	**52**	**0.855**	ug/L	0.065	7	15443	30933	4	Standard
⌊	**Cr**	**53**	**5.173**	ug/L	0.093	1	178	11529	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	25636	0	KED
⌈	**Ni**	**60**	**0.080**	ug/L	0.021	25	40	119	17	KED
⌈	**Ni**	**62**	**0.172**	ug/L	0.037	21	6	34	16	KED
⌈	**Cu**	**63**	**0.030**	ug/L	0.003	9	46	132	5	KED
⌈	**Cu**	**65**	**0.021**	ug/L	0.005	22	30	59	11	KED
⌈	**Zn**	**66**	**0.164**	ug/L	0.054	32	35	97	20	KED
⌈	**Zn**	**67**	**0.274**	ug/L	0.133	48	6	24	35	KED
⌈	**As**	**75**	**0.042**	ug/L	0.016	37	7	15	20	KED
⌊	**Se**	**78**	**0.001**	ug/L	0.165	13622	14	13	26	KED
	Y	**89**		ug/L			287925	271550	4	Standard
	Kr	**83**		ug/L			53	155	11	Standard
⌈>	**In-1**	**115**		ug/L			7687	7385	0	KED
⌈	**Cd**	**111**	**0.072**	ug/L	0.017	23	4	20	18	KED
⌊	**Cd**	**114**	**0.051**	ug/L	0.010	18	7	35	14	KED
⌈>	**In**	**115**		ug/L			427037	402111	1	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.000	17	100	128	4	Standard
⌈	**Ba**	**135**	**0.107**	ug/L	0.007	6	78	464	4	Standard
⌊	**Ba**	**137**	**0.097**	ug/L	0.006	5	142	760	5	Standard
⌈>	**Tb**	**159**		ug/L			675781	666208	0	Standard
⌊	**Pb**	**208**	**0.039**	ug/L	0.002	4	179	1920	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:08:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	754940	4	Standard
⌊	**Be**	**9**	**0.009**	ug/L	0.002	25	7	74	20	Standard
	C	**13**		ug/L			36839	155346	3	Standard
	Cl	**37**		ug/L			4390964	11279472	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	546424	1	Standard
⌈	**Cr**	**52**	**20.114**	ug/L	0.159	0	15443	409774	2	Standard
⌊	**Cr**	**53**	**23.800**	ug/L	0.457	1	178	54939	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	25178	0	KED
⌈	**Ni**	**60**	**19.801**	ug/L	0.696	3	40	19633	3	KED
⌈	**Ni**	**62**	**20.389**	ug/L	0.581	2	6	3227	2	KED
⌈	**Cu**	**63**	**20.045**	ug/L	0.196	0	46	57147	0	KED
⌈	**Cu**	**65**	**19.809**	ug/L	0.285	1	30	28248	0	KED
⌈	**Zn**	**66**	**18.638**	ug/L	0.539	2	35	7185	2	KED
⌈	**Zn**	**67**	**16.366**	ug/L	0.703	4	6	1069	4	KED
⌈	**As**	**75**	**19.371**	ug/L	0.266	1	7	3766	0	KED
⌊	**Se**	**78**	**0.174**	ug/L	0.213	122	14	17	26	KED
	Y	**89**		ug/L			287925	283023	1	Standard
	Kr	**83**		ug/L			53	151	6	Standard
⌈>	**In-1**	**115**		ug/L			7687	7179	1	KED
⌈	**Cd**	**111**	**19.129**	ug/L	0.542	2	4	4296	2	KED
⌊	**Cd**	**114**	**19.523**	ug/L	0.409	2	7	10661	0	KED
⌈>	**In**	**115**		ug/L			427037	416515	2	Standard
⌈	**Ag**	**107**	**17.960**	ug/L	0.364	2	100	252344	0	Standard
⌈	**Ba**	**135**	**0.163**	ug/L	0.016	9	78	692	7	Standard
⌊	**Ba**	**137**	**0.156**	ug/L	0.004	2	142	1181	3	Standard
⌈>	**Tb**	**159**		ug/L			675781	680350	0	Standard
⌊	**Pb**	**208**	**0.030**	ug/L	0.001	3	179	1565	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:12:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	736104	3	Standard
⌊	**Be**	**9**	**192.473**	ug/L	12.052	6	7	1444090	3	Standard
	C	**13**		ug/L			36839	45357	2	Standard
	Cl	**37**		ug/L			4390964	4758617	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	533601	2	Standard
⌈	**Cr**	**52**	**186.142**	ug/L	2.925	1	15443	3575992	1	Standard
⌊	**Cr**	**53**	**190.179**	ug/L	4.221	2	178	427444	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	25750	2	KED
⌈	**Ni**	**60**	**195.673**	ug/L	4.904	2	40	198121	4	KED
⌊	**Ni**	**62**	**198.567**	ug/L	6.951	3	6	32073	1	KED
⌈	**Cu**	**63**	**194.450**	ug/L	2.158	1	46	566486	1	KED
⌊	**Cu**	**65**	**192.066**	ug/L	5.620	2	30	279761	1	KED
⌈	**Zn**	**66**	**191.901**	ug/L	1.364	0	35	75350	2	KED
⌊	**Zn**	**67**	**184.222**	ug/L	4.506	2	6	12242	0	KED
⌈	**As**	**75**	**194.717**	ug/L	4.923	2	7	38643	1	KED
⌊	**Se**	**78**	**192.348**	ug/L	5.594	2	14	4165	0	KED
	Y	**89**		ug/L			287925	279563	1	Standard
	Kr	**83**		ug/L			53	152	2	Standard
⌈>	**In-1**	**115**		ug/L			7687	7432	2	KED
⌈	**Cd**	**111**	**190.949**	ug/L	3.911	2	4	44366	0	KED
⌊	**Cd**	**114**	**191.473**	ug/L	3.725	1	7	108186	0	KED
⌈>	**In**	**115**		ug/L			427037	399005	0	Standard
⌈	**Ag**	**107**	**187.804**	ug/L	7.054	3	100	2527569	3	Standard
⌈	**Ba**	**135**	**198.567**	ug/L	2.621	1	78	718620	1	Standard
⌊	**Ba**	**137**	**196.219**	ug/L	4.618	2	142	1255189	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	668490	1	Standard
⌊	**Pb**	**208**	**191.380**	ug/L	2.134	1	179	8607461	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:17:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			766222	652161	2	Standard
	Be	**9**	**280.443**	ug/L	10.612	3	7	1865952	1	Standard
	C	**13**		ug/L			36839	42926	4	Standard
	Cl	**37**		ug/L			4390964	4485595	1	Standard
>	**Sc**	**45**		ug/L			538647	483774	0	Standard
	Cr	**52**	**271.705**	ug/L	1.900	0	15443	4726941	0	Standard
	Cr	**53**	**281.441**	ug/L	4.455	1	178	573401	1	Standard
>	**Ge**	**72**		ug/L			26915	24482	1	KED
	Ni	**60**	**279.435**	ug/L	2.275	0	40	268943	0	KED
	Ni	**62**	**282.643**	ug/L	6.114	2	6	43418	0	KED
	Cu	**63**	**280.622**	ug/L	2.606	0	46	777463	2	KED
	Cu	**65**	**280.193**	ug/L	5.619	2	30	388162	2	KED
	Zn	**66**	**266.331**	ug/L	4.999	1	35	99398	0	KED
	Zn	**67**	**265.169**	ug/L	3.422	1	6	16759	1	KED
	As	**75**	**282.877**	ug/L	3.980	1	7	53394	2	KED
	Se	**78**	**274.011**	ug/L	2.250	0	14	5639	0	KED
	Y	**89**		ug/L			287925	251302	1	Standard
	Kr	**83**		ug/L			53	184	15	Standard
>	**In-1**	**115**		ug/L			7687	7051	2	KED
	Cd	**111**	**277.136**	ug/L	1.593	0	4	61096	1	KED
	Cd	**114**	**278.310**	ug/L	0.980	0	7	149213	2	KED
>	**In**	**115**		ug/L			427037	366036	1	Standard
	Ag	**107**	**277.920**	ug/L	8.281	2	100	3430580	1	Standard
	Ba	**135**	**297.845**	ug/L	10.648	3	78	988530	2	Standard
	Ba	**137**	**295.803**	ug/L	4.573	1	142	1735576	0	Standard
>	**Tb**	**159**		ug/L			675781	628981	0	Standard
	Pb	**208**	**278.405**	ug/L	4.639	1	179	11780280	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:24:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	747005	5	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	50	7	24	30	Standard
	C	**13**		ug/L			36839	38276	5	Standard
	Cl	**37**		ug/L			4390964	4316077	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	512347	1	Standard
⌈	**Cr**	**52**	**-0.002**	ug/L	0.024	1340	15443	14662	4	Standard
⌊	**Cr**	**53**	**0.048**	ug/L	0.004	8	178	273	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	27629	0	KED
⌈	**Ni**	**60**	**-0.009**	ug/L	0.002	22	40	31	6	KED
⌊	**Ni**	**62**	**-0.016**	ug/L	0.013	80	6	4	49	KED
⌈	**Cu**	**63**	**0.007**	ug/L	0.004	66	46	68	19	KED
⌊	**Cu**	**65**	**0.008**	ug/L	0.004	55	30	43	15	KED
⌈	**Zn**	**66**	**0.016**	ug/L	0.018	116	35	43	18	KED
⌊	**Zn**	**67**	**-0.029**	ug/L	0.040	137	6	5	57	KED
⌈	**As**	**75**	**0.012**	ug/L	0.010	79	7	10	21	KED
⌊	**Se**	**78**	**0.156**	ug/L	0.148	95	14	18	19	KED
	Y	**89**		ug/L			287925	269305	2	Standard
	Kr	**83**		ug/L			53	49	21	Standard
⌈>	**In-1**	**115**		ug/L			7687	7673	1	KED
⌈	**Cd**	**111**	**0.001**	ug/L	0.005	351	4	4	24	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.002	45	7	4	21	KED
⌈>	**In**	**115**		ug/L			427037	407833	3	Standard
⌈	**Ag**	**107**	**0.011**	ug/L	0.003	25	100	246	12	Standard
⌈	**Ba**	**135**	**-0.009**	ug/L	0.001	12	78	43	11	Standard
⌊	**Ba**	**137**	**-0.009**	ug/L	0.002	21	142	78	16	Standard
⌈>	**Tb**	**159**		ug/L			675781	659136	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	37	179	264	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:31:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	700762	4	Standard
⌊	**Be**	**9**	**50.701**	ug/L	1.876	3	7	362263	0	Standard
	C	**13**		ug/L			36839	36589	3	Standard
	Cl	**37**		ug/L			4390964	4502376	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	509474	2	Standard
⌈	**Cr**	**52**	**49.500**	ug/L	1.246	2	15443	918861	3	Standard
⌊	**Cr**	**53**	**48.560**	ug/L	0.840	1	178	104311	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	26935	3	KED
⌈	**Ni**	**60**	**48.822**	ug/L	0.450	0	40	51736	3	KED
⌈	**Ni**	**62**	**49.377**	ug/L	0.248	0	6	8352	2	KED
⌈	**Cu**	**63**	**49.488**	ug/L	0.643	1	46	150850	2	KED
⌈	**Cu**	**65**	**49.072**	ug/L	0.826	1	30	74799	1	KED
⌈	**Zn**	**66**	**49.918**	ug/L	0.531	1	35	20525	2	KED
⌈	**Zn**	**67**	**49.585**	ug/L	1.805	3	6	3456	6	KED
⌈	**As**	**75**	**49.253**	ug/L	0.678	1	7	10233	3	KED
⌊	**Se**	**78**	**50.539**	ug/L	1.047	2	14	1155	2	KED
	Y	**89**		ug/L			287925	269792	2	Standard
	Kr	**83**		ug/L			53	63	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7664	2	KED
⌈	**Cd**	**111**	**48.714**	ug/L	0.897	1	4	11675	0	KED
⌊	**Cd**	**114**	**49.761**	ug/L	1.328	2	7	28995	0	KED
⌈>	**In**	**115**		ug/L			427037	399414	1	Standard
⌈	**Ag**	**107**	**50.179**	ug/L	1.272	2	100	675919	1	Standard
⌈	**Ba**	**135**	**49.236**	ug/L	1.174	2	78	178368	0	Standard
⌊	**Ba**	**137**	**48.882**	ug/L	0.574	1	142	313060	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	653942	2	Standard
⌊	**Pb**	**208**	**50.390**	ug/L	1.272	2	179	2216288	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:39:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	741448	5	Standard
⎣	**Be**	**9**	**0.002**	ug/L	0.001	39	7	19	22	Standard
	C	**13**		ug/L			36839	37172	4	Standard
	Cl	**37**		ug/L			4390964	4322135	3	Standard
⎡>	**Sc**	**45**		ug/L			538647	522985	1	Standard
⎢	**Cr**	**52**	**-0.017**	ug/L	0.010	61	15443	14675	2	Standard
⎣	**Cr**	**53**	**0.024**	ug/L	0.010	39	178	227	8	Standard
⎡>	**Ge**	**72**		ug/L			26915	25564	1	KED
⎢	**Ni**	**60**	**0.088**	ug/L	0.030	33	40	126	22	KED
⎢	**Ni**	**62**	**0.062**	ug/L	0.025	40	6	16	24	KED
⎢	**Cu**	**63**	**-0.007**	ug/L	0.003	42	46	25	31	KED
⎢	**Cu**	**65**	**-0.007**	ug/L	0.003	40	30	18	23	KED
⎢	**Zn**	**66**	**-0.054**	ug/L	0.012	22	35	12	37	KED
⎢	**Zn**	**67**	**-0.043**	ug/L	0.001	1	6	3	0	KED
⎢	**As**	**75**	**0.013**	ug/L	0.006	46	7	9	11	KED
⎣	**Se**	**78**	**0.079**	ug/L	0.053	67	14	15	6	KED
	Y	**89**		ug/L			287925	272704	2	Standard
	Kr	**83**		ug/L			53	57	15	Standard
⎡>	**In-1**	**115**		ug/L			7687	7549	1	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.006	97	4	2	57	KED
⎣	**Cd**	**114**	**-0.009**	ug/L	0.000	0	7	1	4	KED
⎡>	**In**	**115**		ug/L			427037	419302	2	Standard
⎢	**Ag**	**107**	**0.003**	ug/L	0.001	43	100	140	10	Standard
⎢	**Ba**	**135**	**-0.016**	ug/L	0.003	17	78	15	68	Standard
⎣	**Ba**	**137**	**-0.016**	ug/L	0.001	5	142	31	18	Standard
⎡>	**Tb**	**159**		ug/L			675781	663059	2	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	20	179	140	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:44:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	698385	3	Standard
	Be	9	0.002	ug/L	0.001	43	7	20	31	Standard
	C	13		ug/L			36839	46187	3	Standard
	Cl	37		ug/L			4390964	4126614	1	Standard
>	Sc	45		ug/L			538647	507665	0	Standard
	Cr	52	0.071	ug/L	0.012	17	15443	15841	0	Standard
	Cr	53	0.069	ug/L	0.004	5	178	315	3	Standard
>	Ge	72		ug/L			26915	27613	1	KED
	Ni	60	0.049	ug/L	0.007	13	40	95	8	KED
	Ni	62	0.051	ug/L	0.047	93	6	15	49	KED
	Cu	63	0.016	ug/L	0.009	54	46	97	26	KED
	Cu	65	0.017	ug/L	0.002	13	30	57	5	KED
	Zn	66	0.355	ug/L	0.085	24	35	186	20	KED
	Zn	67	0.327	ug/L	0.026	7	6	30	6	KED
	As	75	0.007	ug/L	0.007	112	7	8	19	KED
	Se	78	0.102	ug/L	0.208	205	14	17	28	KED
	Y	89		ug/L			287925	264276	1	Standard
	Kr	83		ug/L			53	50	10	Standard
>	In-1	115		ug/L			7687	7826	1	KED
	Cd	111	-0.013	ug/L	0.004	29	4	0	100	KED
	Cd	114	-0.009	ug/L	0.002	21	7	2	49	KED
>	In	115		ug/L			427037	402739	0	Standard
	Ag	107	0.001	ug/L	0.000	24	100	111	4	Standard
	Ba	135	0.003	ug/L	0.001	46	78	85	6	Standard
	Ba	137	0.001	ug/L	0.005	415	142	142	21	Standard
>	Tb	159		ug/L			675781	640887	1	Standard
	Pb	208	0.010	ug/L	0.001	11	179	596	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:49:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	756313	6	Standard
⌊	**Be**	**9**	**24.839**	ug/L	1.944	7	7	191133	1	Standard
	C	**13**		ug/L			36839	50372	2	Standard
	Cl	**37**		ug/L			4390964	4653719	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	534856	2	Standard
⌈	**Cr**	**52**	**25.209**	ug/L	0.613	2	15443	498614	0	Standard
⌊	**Cr**	**53**	**25.103**	ug/L	0.517	2	178	56688	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	26441	3	KED
⌈	**Ni**	**60**	**25.543**	ug/L	0.553	2	40	26578	2	KED
⌊	**Ni**	**62**	**25.712**	ug/L	0.870	3	6	4274	5	KED
⌈	**Cu**	**63**	**25.658**	ug/L	0.488	1	46	76775	1	KED
⌊	**Cu**	**65**	**25.695**	ug/L	0.949	3	30	38448	2	KED
⌈	**Zn**	**66**	**83.015**	ug/L	2.524	3	35	33467	0	KED
⌊	**Zn**	**67**	**75.479**	ug/L	1.681	2	6	5154	1	KED
⌈	**As**	**75**	**25.364**	ug/L	0.448	1	7	5174	1	KED
⌊	**Se**	**78**	**79.972**	ug/L	1.092	1	14	1787	2	KED
	Y	**89**		ug/L			287925	281313	3	Standard
	Kr	**83**		ug/L			53	69	6	Standard
⌈>	**In-1**	**115**		ug/L			7687	7690	1	KED
⌈	**Cd**	**111**	**25.173**	ug/L	0.544	2	4	6056	1	KED
⌊	**Cd**	**114**	**25.601**	ug/L	0.534	2	7	14975	1	KED
⌈>	**In**	**115**		ug/L			427037	417015	0	Standard
⌈	**Ag**	**107**	**25.348**	ug/L	0.395	1	100	356619	1	Standard
⌈	**Ba**	**135**	**25.035**	ug/L	0.284	1	78	94755	1	Standard
⌊	**Ba**	**137**	**24.931**	ug/L	0.409	1	142	166790	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	680427	2	Standard
⌊	**Pb**	**208**	**25.262**	ug/L	0.634	2	179	1156205	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0190-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:55:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	711999	5	Standard
	Be	9	0.002	ug/L	0.001	52	7	20	32	Standard
	C	13		ug/L			36839	45262	4	Standard
	Cl	37		ug/L			4390964	7656947	0	Standard
>	Sc	45		ug/L			538647	521033	4	Standard
	Cr	52	114.804	ug/L	1.127	0	15443	2159254	3	Standard
	Cr	53	117.686	ug/L	1.322	1	178	258324	4	Standard
>	Ge	72		ug/L			26915	25518	0	KED
	Ni	60	2.234	ug/L	0.069	3	40	2279	2	KED
	Ni	62	2.492	ug/L	0.032	1	6	405	2	KED
	Cu	63	9.237	ug/L	0.108	1	46	26715	0	KED
	Cu	65	9.073	ug/L	0.240	2	30	13127	1	KED
	Zn	66	39.651	ug/L	0.373	0	35	15455	0	KED
	Zn	67	35.497	ug/L	0.696	1	6	2344	2	KED
	As	75	0.127	ug/L	0.017	13	7	31	9	KED
	Se	78	0.097	ug/L	0.090	92	14	15	11	KED
	Y	89		ug/L			287925	272874	4	Standard
	Kr	83		ug/L			53	81	25	Standard
>	In-1	115		ug/L			7687	7486	3	KED
	Cd	111	0.109	ug/L	0.005	4	4	29	5	KED
	Cd	114	0.103	ug/L	0.003	3	7	65	4	KED
>	In	115		ug/L			427037	392017	2	Standard
	Ag	107	0.016	ug/L	0.007	44	100	302	27	Standard
	Ba	135	2.518	ug/L	0.033	1	78	9023	1	Standard
	Ba	137	2.482	ug/L	0.083	3	142	15719	1	Standard
>	Tb	159		ug/L			675781	661703	4	Standard
	Pb	208	0.245	ug/L	0.010	4	179	11059	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:01:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			766222	717874	4	Standard
	Be	**9**	**0.002**	ug/L	0.001	35	7	19	20	Standard
	C	**13**		ug/L			36839	42818	1	Standard
	Cl	**37**		ug/L			4390964	8140731	1	Standard
>	**Sc**	**45**		ug/L			538647	511276	1	Standard
	Cr	**52**	**1.833**	ug/L	0.018	0	15443	48269	1	Standard
	Cr	**53**	**6.371**	ug/L	0.141	2	178	13881	0	Standard
>	**Ge**	**72**		ug/L			26915	26563	1	KED
	Ni	**60**	**1.292**	ug/L	0.035	2	40	1389	3	KED
	Ni	**62**	**1.349**	ug/L	0.133	9	6	231	9	KED
	Cu	**63**	**0.742**	ug/L	0.011	1	46	2277	0	KED
	Cu	**65**	**0.729**	ug/L	0.029	4	30	1126	3	KED
	Zn	**66**	**62.328**	ug/L	0.962	1	35	25269	1	KED
	Zn	**67**	**55.942**	ug/L	2.340	4	6	3840	3	KED
	As	**75**	**0.228**	ug/L	0.019	8	7	53	5	KED
	Se	**78**	**0.467**	ug/L	0.083	17	14	24	8	KED
	Y	**89**		ug/L			287925	265515	2	Standard
	Kr	**83**		ug/L			53	46	9	Standard
>	**In-1**	**115**		ug/L			7687	7487	3	KED
	Cd	**111**	**0.035**	ug/L	0.022	63	4	12	39	KED
	Cd	**114**	**0.026**	ug/L	0.010	38	7	21	24	KED
>	**In**	**115**		ug/L			427037	387575	1	Standard
	Ag	**107**	**-0.000**	ug/L	0.002	718	100	87	27	Standard
	Ba	**135**	**2.562**	ug/L	0.020	0	78	9076	0	Standard
	Ba	**137**	**2.605**	ug/L	0.082	3	142	16310	3	Standard
>	**Tb**	**159**		ug/L			675781	650380	1	Standard
	Pb	**208**	**0.231**	ug/L	0.004	1	179	10276	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:05:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	730988	1	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	47	7	19	29	Standard
	C	**13**		ug/L			36839	42041	1	Standard
	Cl	**37**		ug/L			4390964	5770322	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	523298	1	Standard
⌈	**Cr**	**52**	**1.233**	ug/L	0.036	2	15443	38141	2	Standard
⌊	**Cr**	**53**	**3.754**	ug/L	0.091	2	178	8445	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	26451	0	KED
⌈	**Ni**	**60**	**0.953**	ug/L	0.074	7	40	1030	6	KED
⌊	**Ni**	**62**	**1.010**	ug/L	0.146	14	6	174	14	KED
⌈	**Cu**	**63**	**1.717**	ug/L	0.004	0	46	5185	1	KED
⌊	**Cu**	**65**	**1.679**	ug/L	0.030	1	30	2543	0	KED
⌈	**Zn**	**66**	**92.026**	ug/L	2.400	2	35	37139	3	KED
⌊	**Zn**	**67**	**80.522**	ug/L	3.120	3	6	5503	3	KED
⌈	**As**	**75**	**0.244**	ug/L	0.036	14	7	56	12	KED
⌊	**Se**	**78**	**0.202**	ug/L	0.146	71	14	18	16	KED
	Y	**89**		ug/L			287925	276939	1	Standard
	Kr	**83**		ug/L			53	55	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7259	1	KED
⌈	**Cd**	**111**	**0.058**	ug/L	0.014	23	4	17	20	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.007	21	7	23	16	KED
⌈>	**In**	**115**		ug/L			427037	406438	1	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.001	46	100	121	8	Standard
⌈	**Ba**	**135**	**1.861**	ug/L	0.064	3	78	6933	1	Standard
⌊	**Ba**	**137**	**1.870**	ug/L	0.037	1	142	12317	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	676477	2	Standard
⌊	**Pb**	**208**	**0.694**	ug/L	0.033	4	179	31735	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0435-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:12:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	706457	3	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.000	10	7	17	6	Standard
	C	**13**		ug/L			36839	57678	1	Standard
	Cl	**37**		ug/L			4390964	4380616	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	628947	1	Standard
⌈	**Cr**	**52**	**0.655**	ug/L	0.024	3	15443	32806	1	Standard
⌊	**Cr**	**53**	**1.120**	ug/L	0.010	0	178	3174	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	27674	7	KED
⌈	**Ni**	**60**	**0.554**	ug/L	0.043	7	40	642	5	KED
⌈	**Ni**	**62**	**0.535**	ug/L	0.167	31	6	99	27	KED
⌈	**Cu**	**63**	**0.255**	ug/L	0.033	13	46	840	5	KED
⌈	**Cu**	**65**	**0.268**	ug/L	0.028	10	30	448	2	KED
⌈	**Zn**	**66**	**0.262**	ug/L	0.026	9	35	147	11	KED
⌈	**Zn**	**67**	**0.798**	ug/L	0.217	27	6	63	17	KED
⌈	**As**	**75**	**1.038**	ug/L	0.093	9	7	227	2	KED
⌊	**Se**	**78**	**0.283**	ug/L	0.053	18	14	21	9	KED
	Y	**89**		ug/L			287925	267618	1	Standard
	Kr	**83**		ug/L			53	55	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7450	0	KED
⌈	**Cd**	**111**	**0.009**	ug/L	0.002	26	4	6	9	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.004	40	7	12	17	KED
⌈>	**In**	**115**		ug/L			427037	391168	2	Standard
⌈	**Ag**	**107**	**0.016**	ug/L	0.002	10	100	299	5	Standard
⌈	**Ba**	**135**	**4.602**	ug/L	0.020	0	78	16397	2	Standard
⌊	**Ba**	**137**	**4.528**	ug/L	0.099	2	142	28519	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	639111	1	Standard
⌊	**Pb**	**208**	**0.018**	ug/L	0.001	5	179	945	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-DUP3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:17:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	710228	1	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	213	7	10	65	Standard
	C	**13**		ug/L			36839	58341	2	Standard
	Cl	**37**		ug/L			4390964	4432878	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	645303	1	Standard
⌈	**Cr**	**52**	**0.669**	ug/L	0.026	3	15443	33984	1	Standard
⌊	**Cr**	**53**	**1.136**	ug/L	0.026	2	178	3300	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26091	1	KED
⌈	**Ni**	**60**	**0.658**	ug/L	0.076	11	40	713	8	KED
⌊	**Ni**	**62**	**0.661**	ug/L	0.019	2	6	114	2	KED
⌈	**Cu**	**63**	**0.174**	ug/L	0.011	6	46	558	4	KED
⌊	**Cu**	**65**	**0.169**	ug/L	0.001	0	30	278	2	KED
⌈	**Zn**	**66**	**0.155**	ug/L	0.012	8	35	95	4	KED
⌊	**Zn**	**67**	**0.767**	ug/L	0.029	3	6	58	4	KED
⌈	**As**	**75**	**1.197**	ug/L	0.050	4	7	247	4	KED
⌊	**Se**	**78**	**0.173**	ug/L	0.076	43	14	17	10	KED
	Y	**89**		ug/L			287925	270448	3	Standard
	Kr	**83**		ug/L			53	50	18	Standard
⌈>	**In-1**	**115**		ug/L			7687	7204	2	KED
⌈	**Cd**	**111**	**-0.005**	ug/L	0.004	89	4	2	33	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.005	98	7	4	67	KED
⌈>	**In**	**115**		ug/L			427037	389102	2	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	172	100	80	19	Standard
⌈	**Ba**	**135**	**4.722**	ug/L	0.084	1	78	16728	1	Standard
⌊	**Ba**	**137**	**4.814**	ug/L	0.188	3	142	30134	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	647892	1	Standard
⌊	**Pb**	**208**	**0.015**	ug/L	0.001	7	179	808	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-MS3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:22:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	724025	4	Standard
⎣	**Be**	**9**	**24.450**	ug/L	0.915	3	7	180504	0	Standard
	C	**13**		ug/L			36839	60891	3	Standard
	Cl	**37**		ug/L			4390964	4584220	3	Standard
⎡>	**Sc**	**45**		ug/L			538647	665408	3	Standard
⎢	**Cr**	**52**	**20.498**	ug/L	0.360	1	15443	507991	1	Standard
⎣	**Cr**	**53**	**20.820**	ug/L	0.211	1	178	58550	3	Standard
⎡>	**Ge**	**72**		ug/L			26915	25546	2	KED
⎢	**Ni**	**60**	**25.638**	ug/L	0.744	2	40	25777	2	KED
⎢	**Ni**	**62**	**26.237**	ug/L	1.180	4	6	4210	3	KED
⎢	**Cu**	**63**	**24.969**	ug/L	0.529	2	46	72191	0	KED
⎢	**Cu**	**65**	**24.639**	ug/L	0.706	2	30	35634	2	KED
⎢	**Zn**	**66**	**76.143**	ug/L	2.049	2	35	29669	1	KED
⎢	**Zn**	**67**	**71.738**	ug/L	4.010	5	6	4731	3	KED
⎢	**As**	**75**	**26.241**	ug/L	0.970	3	7	5172	2	KED
⎣	**Se**	**78**	**75.372**	ug/L	0.782	1	14	1628	1	KED
	Y	**89**		ug/L			287925	275379	2	Standard
	Kr	**83**		ug/L			53	80	8	Standard
⎡>	**In-1**	**115**		ug/L			7687	6905	1	KED
⎢	**Cd**	**111**	**25.029**	ug/L	0.276	1	4	5407	1	KED
⎣	**Cd**	**114**	**25.332**	ug/L	0.848	3	7	13302	2	KED
⎡>	**In**	**115**		ug/L			427037	397838	1	Standard
⎢	**Ag**	**107**	**23.808**	ug/L	0.418	1	100	319621	3	Standard
⎢	**Ba**	**135**	**29.935**	ug/L	0.518	1	78	108059	1	Standard
⎣	**Ba**	**137**	**30.215**	ug/L	0.351	1	142	192831	2	Standard
⎡>	**Tb**	**159**		ug/L			675781	658846	3	Standard
⎣	**Pb**	**208**	**25.017**	ug/L	0.703	2	179	1108444	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-MSD3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:27:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			766222	677222	4	Standard
[	Be	9	24.529	ug/L	1.184	4	7	169448	4	Standard
	C	13		ug/L			36839	55239	1	Standard
	Cl	37		ug/L			4390964	4386594	2	Standard
[>	Sc	45		ug/L			538647	615458	1	Standard
[	Cr	52	20.328	ug/L	0.299	1	15443	466215	0	Standard
[	Cr	53	20.669	ug/L	0.346	1	178	53761	1	Standard
[>	Ge	72		ug/L			26915	23951	0	KED
[	Ni	60	25.491	ug/L	0.353	1	40	24035	1	KED
[	Ni	62	24.795	ug/L	0.500	2	6	3732	1	KED
[	Cu	63	24.124	ug/L	0.092	0	46	65420	1	KED
[	Cu	65	24.713	ug/L	0.467	1	30	33519	1	KED
[	Zn	66	74.839	ug/L	0.603	0	35	27353	1	KED
[	Zn	67	69.452	ug/L	1.699	2	6	4298	1	KED
[	As	75	25.678	ug/L	0.514	2	7	4746	1	KED
[	Se	78	72.989	ug/L	3.409	4	14	1479	4	KED
	Y	89		ug/L			287925	250881	1	Standard
	Kr	83		ug/L			53	78	12	Standard
[>	In-1	115		ug/L			7687	6736	2	KED
[	Cd	111	24.354	ug/L	0.377	1	4	5131	1	KED
[	Cd	114	24.377	ug/L	0.729	2	7	12485	1	KED
[>	In	115		ug/L			427037	370625	0	Standard
[	Ag	107	22.849	ug/L	0.474	2	100	285700	1	Standard
[	Ba	135	30.658	ug/L	0.282	0	78	103113	0	Standard
[	Ba	137	30.167	ug/L	0.539	1	142	179340	1	Standard
[>	Tb	159		ug/L			675781	616557	1	Standard
[	Pb	208	24.987	ug/L	0.730	2	179	1036244	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:31:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	742626	0	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	518	7	6	31	Standard
	C	**13**		ug/L			36839	40869	2	Standard
	Cl	**37**		ug/L			4390964	4240211	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	527506	2	Standard
⌈	**Cr**	**52**	**-0.001**	ug/L	0.024	1862	15443	15091	1	Standard
⌊	**Cr**	**53**	**0.046**	ug/L	0.007	14	178	277	5	Standard
⌈>	**Ge**	**72**		ug/L			26915	27124	3	KED
⌈	**Ni**	**60**	**0.018**	ug/L	0.006	35	40	59	8	KED
⌈	**Ni**	**62**	**0.026**	ug/L	0.021	80	6	11	28	KED
⌈	**Cu**	**63**	**-0.001**	ug/L	0.001	92	46	45	7	KED
⌈	**Cu**	**65**	**-0.000**	ug/L	0.006	1355	30	29	26	KED
⌈	**Zn**	**66**	**0.001**	ug/L	0.019	1447	35	36	18	KED
⌈	**Zn**	**67**	**0.054**	ug/L	0.059	109	6	10	36	KED
⌈	**As**	**75**	**0.009**	ug/L	0.007	75	7	9	18	KED
⌊	**Se**	**78**	**0.051**	ug/L	0.200	392	14	15	29	KED
	Y	**89**		ug/L			287925	280009	2	Standard
	Kr	**83**		ug/L			53	66	26	Standard
⌈>	**In-1**	**115**		ug/L			7687	7908	2	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.004	69	4	2	33	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.005	112	7	4	58	KED
⌈>	**In**	**115**		ug/L			427037	418765	1	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.000	25	100	106	1	Standard
⌈	**Ba**	**135**	**-0.008**	ug/L	0.002	29	78	45	20	Standard
⌊	**Ba**	**137**	**-0.009**	ug/L	0.003	34	142	81	23	Standard
⌈>	**Tb**	**159**		ug/L			675781	662254	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	109	179	165	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 18:36:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	728565	1	Standard
⌊	**Be**	**9**	**50.252**	ug/L	2.139	4	7	373626	3	Standard
	C	**13**		ug/L			36839	38459	2	Standard
	Cl	**37**		ug/L			4390964	4527669	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	508033	2	Standard
⌈	**Cr**	**52**	**49.888**	ug/L	1.304	2	15443	923057	1	Standard
⌊	**Cr**	**53**	**49.329**	ug/L	1.277	2	178	105672	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	27580	6	KED
⌈	**Ni**	**60**	**47.092**	ug/L	3.898	8	40	50914	2	KED
⌊	**Ni**	**62**	**47.114**	ug/L	4.640	9	6	8126	3	KED
⌈	**Cu**	**63**	**47.405**	ug/L	3.398	7	46	147506	0	KED
⌊	**Cu**	**65**	**46.225**	ug/L	3.953	8	30	71909	3	KED
⌈	**Zn**	**66**	**47.968**	ug/L	4.242	8	35	20120	1	KED
⌊	**Zn**	**67**	**46.577**	ug/L	3.995	8	6	3312	5	KED
⌈	**As**	**75**	**47.199**	ug/L	3.794	8	7	10006	1	KED
⌊	**Se**	**78**	**47.409**	ug/L	4.675	9	14	1106	2	KED
	Y	**89**		ug/L			287925	268980	1	Standard
	Kr	**83**		ug/L			53	58	20	Standard
⌈>	**In-1**	**115**		ug/L			7687	7507	2	KED
⌈	**Cd**	**111**	**50.186**	ug/L	0.872	1	4	11786	3	KED
⌊	**Cd**	**114**	**50.793**	ug/L	1.152	2	7	29006	3	KED
⌈>	**In**	**115**		ug/L			427037	397823	1	Standard
⌈	**Ag**	**107**	**50.203**	ug/L	0.173	0	100	673712	1	Standard
⌈	**Ba**	**135**	**49.164**	ug/L	0.027	0	78	177449	1	Standard
⌊	**Ba**	**137**	**48.555**	ug/L	0.256	0	142	309758	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	652802	1	Standard
⌊	**Pb**	**208**	**49.739**	ug/L	0.370	0	179	2184826	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:44:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	736842	4	Standard
⎣	**Be**	**9**	**49.412**	ug/L	2.337	4	7	371385	4	Standard
	C	**13**		ug/L			36839	38351	3	Standard
	Cl	**37**		ug/L			4390964	4665353	1	Standard
⎡>	**Sc**	**45**		ug/L			538647	509755	2	Standard
⎢	**Cr**	**52**	**49.905**	ug/L	1.404	2	15443	926825	4	Standard
⎣	**Cr**	**53**	**49.796**	ug/L	0.695	1	178	107059	3	Standard
⎡>	**Ge**	**72**		ug/L			26915	27111	3	KED
⎢	**Ni**	**60**	**47.602**	ug/L	1.645	3	40	50730	0	KED
⎢	**Ni**	**62**	**47.989**	ug/L	1.963	4	6	8163	1	KED
⎢	**Cu**	**63**	**47.807**	ug/L	2.336	4	46	146588	3	KED
⎢	**Cu**	**65**	**47.183**	ug/L	1.487	3	30	72358	0	KED
⎢	**Zn**	**66**	**48.816**	ug/L	2.360	4	35	20184	1	KED
⎢	**Zn**	**67**	**48.579**	ug/L	3.288	6	6	3401	4	KED
⎢	**As**	**75**	**47.839**	ug/L	2.013	4	7	9995	1	KED
⎣	**Se**	**78**	**48.143**	ug/L	1.969	4	14	1108	2	KED
	Y	**89**		ug/L			287925	273441	3	Standard
	Kr	**83**		ug/L			53	70	12	Standard
⎡>	**In-1**	**115**		ug/L			7687	7552	2	KED
⎢	**Cd**	**111**	**50.028**	ug/L	0.959	1	4	11813	1	KED
⎣	**Cd**	**114**	**49.797**	ug/L	0.862	1	7	28598	2	KED
⎡>	**In**	**115**		ug/L			427037	399410	2	Standard
⎢	**Ag**	**107**	**50.754**	ug/L	1.338	2	100	684195	5	Standard
⎢	**Ba**	**135**	**48.909**	ug/L	0.212	0	78	177218	2	Standard
⎣	**Ba**	**137**	**49.294**	ug/L	0.446	0	142	315682	2	Standard
⎡>	**Tb**	**159**		ug/L			675781	657885	3	Standard
⎣	**Pb**	**208**	**49.804**	ug/L	1.175	2	179	2203545	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:51:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	735602	3	Standard
⎣	**Be**	**9**	**0.000**	ug/L	0.000	141	7	8	13	Standard
	C	**13**		ug/L			36839	37393	1	Standard
	Cl	**37**		ug/L			4390964	4308048	2	Standard
⎡>	**Sc**	**45**		ug/L			538647	514699	2	Standard
⎢	**Cr**	**52**	**0.020**	ug/L	0.029	146	15443	15112	1	Standard
⎣	**Cr**	**53**	**0.024**	ug/L	0.008	35	178	221	8	Standard
⎡>	**Ge**	**72**		ug/L			26915	27806	4	KED
⎢	**Ni**	**60**	**0.041**	ug/L	0.014	34	40	86	14	KED
⎢	**Ni**	**62**	**0.027**	ug/L	0.033	119	6	12	48	KED
⎢	**Cu**	**63**	**-0.008**	ug/L	0.003	45	46	24	43	KED
⎢	**Cu**	**65**	**-0.010**	ug/L	0.001	14	30	16	17	KED
⎢	**Zn**	**66**	**-0.046**	ug/L	0.007	15	35	17	22	KED
⎢	**Zn**	**67**	**-0.019**	ug/L	0.073	387	6	5	88	KED
⎢	**As**	**75**	**0.008**	ug/L	0.005	64	7	9	13	KED
⎣	**Se**	**78**	**0.048**	ug/L	0.181	374	14	15	24	KED
	Y	**89**		ug/L			287925	272565	2	Standard
	Kr	**83**		ug/L			53	52	18	Standard
⎡>	**In-1**	**115**		ug/L			7687	7545	0	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.006	97	4	2	57	KED
⎣	**Cd**	**114**	**-0.012**	ug/L	0.002	14	7	0	190	KED
⎡>	**In**	**115**		ug/L			427037	409371	2	Standard
⎢	**Ag**	**107**	**0.002**	ug/L	0.001	47	100	118	9	Standard
⎢	**Ba**	**135**	**-0.016**	ug/L	0.002	10	78	14	39	Standard
⎣	**Ba**	**137**	**-0.015**	ug/L	0.001	5	142	41	9	Standard
⎡>	**Tb**	**159**		ug/L			675781	648574	2	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	17	179	120	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:57:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	743289	1	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	62	7	19	40	Standard
	C	**13**		ug/L			36839	53109	1	Standard
	Cl	**37**		ug/L			4390964	10966788	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	536108	2	Standard
⌈	**Cr**	**52**	**4.617**	ug/L	0.165	3	15443	104069	0	Standard
⌊	**Cr**	**53**	**11.935**	ug/L	0.244	2	178	27116	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	25689	1	KED
⌈	**Ni**	**60**	**3.114**	ug/L	0.095	3	40	3183	2	KED
⌊	**Ni**	**62**	**3.410**	ug/L	0.166	4	6	556	4	KED
⌈	**Cu**	**63**	**3.220**	ug/L	0.085	2	46	9403	2	KED
⌊	**Cu**	**65**	**3.178**	ug/L	0.073	2	30	4647	1	KED
⌈	**Zn**	**66**	**297.201**	ug/L	3.485	1	35	116396	0	KED
⌊	**Zn**	**67**	**266.434**	ug/L	2.015	0	6	17670	1	KED
⌈	**As**	**75**	**0.770**	ug/L	0.054	7	7	159	6	KED
⌊	**Se**	**78**	**0.676**	ug/L	0.216	31	14	28	15	KED
	Y	**89**		ug/L			287925	274130	1	Standard
	Kr	**83**		ug/L			53	54	21	Standard
⌈>	**In-1**	**115**		ug/L			7687	7037	3	KED
⌈	**Cd**	**111**	**0.181**	ug/L	0.033	18	4	43	19	KED
⌊	**Cd**	**114**	**0.196**	ug/L	0.020	10	7	111	6	KED
⌈>	**In**	**115**		ug/L			427037	395664	1	Standard
⌈	**Ag**	**107**	**0.003**	ug/L	0.001	19	100	139	7	Standard
⌈	**Ba**	**135**	**10.427**	ug/L	0.148	1	78	37483	0	Standard
⌊	**Ba**	**137**	**10.515**	ug/L	0.164	1	142	66816	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	663937	0	Standard
⌊	**Pb**	**208**	**0.603**	ug/L	0.021	3	179	27104	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:02:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	756237	0	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.001	66	7	15	34	Standard
	C	**13**		ug/L			36839	52548	0	Standard
	Cl	**37**		ug/L			4390964	9592443	4	Standard
⌈>	**Sc**	**45**		ug/L			538647	531020	0	Standard
⌈	**Cr**	**52**	**3.052**	ug/L	0.114	3	15443	73332	3	Standard
⌊	**Cr**	**53**	**9.671**	ug/L	0.103	1	178	21797	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	26077	1	KED
⌈	**Ni**	**60**	**1.244**	ug/L	0.072	5	40	1315	6	KED
⌈	**Ni**	**62**	**1.368**	ug/L	0.139	10	6	230	9	KED
⌈	**Cu**	**63**	**2.226**	ug/L	0.060	2	46	6614	4	KED
⌈	**Cu**	**65**	**2.196**	ug/L	0.086	3	30	3269	3	KED
⌈	**Zn**	**66**	**61.347**	ug/L	0.686	1	35	24418	1	KED
⌈	**Zn**	**67**	**57.036**	ug/L	2.611	4	6	3845	5	KED
⌈	**As**	**75**	**0.363**	ug/L	0.019	5	7	80	6	KED
⌊	**Se**	**78**	**0.231**	ug/L	0.244	105	14	19	28	KED
	Y	**89**		ug/L			287925	271267	1	Standard
	Kr	**83**		ug/L			53	66	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7361	0	KED
⌈	**Cd**	**111**	**0.015**	ug/L	0.003	17	4	7	7	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.007	847	7	6	58	KED
⌈>	**In**	**115**		ug/L			427037	395943	0	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	180	100	84	18	Standard
⌈	**Ba**	**135**	**10.874**	ug/L	0.176	1	78	39115	1	Standard
⌊	**Ba**	**137**	**10.615**	ug/L	0.106	1	142	67503	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	662287	2	Standard
⌊	**Pb**	**208**	**0.312**	ug/L	0.010	3	179	14092	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0191-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:07:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			766222	726244	4	Standard
⌊	Be	9	0.000	ug/L	0.000	227	7	8	44	Standard
	C	13		ug/L			36839	50246	1	Standard
	Cl	37		ug/L			4390964	8156909	1	Standard
⌈>	Sc	45		ug/L			538647	514478	1	Standard
⌈	Cr	52	1.264	ug/L	0.038	2	15443	38057	1	Standard
⌊	Cr	53	6.893	ug/L	0.206	2	178	15099	2	Standard
⌈>	Ge	72		ug/L			26915	26365	4	KED
⌈	Ni	60	0.892	ug/L	0.046	5	40	963	2	KED
⌊	Ni	62	0.838	ug/L	0.093	11	6	145	10	KED
⌈	Cu	63	0.312	ug/L	0.004	1	46	977	5	KED
⌊	Cu	65	0.315	ug/L	0.016	5	30	498	1	KED
⌈	Zn	66	8.826	ug/L	0.246	2	35	3579	2	KED
⌊	Zn	67	9.563	ug/L	0.420	4	6	657	4	KED
⌈	As	75	0.265	ug/L	0.019	7	7	60	7	KED
⌊	Se	78	0.333	ug/L	0.180	53	14	21	15	KED
	Y	89		ug/L			287925	264846	1	Standard
	Kr	83		ug/L			53	50	17	Standard
⌈>	In-1	115		ug/L			7687	7399	0	KED
⌈	Cd	111	-0.002	ug/L	0.005	228	4	3	31	KED
⌊	Cd	114	-0.004	ug/L	0.005	133	7	4	59	KED
⌈>	In	115		ug/L			427037	381624	1	Standard
⌈	Ag	107	-0.002	ug/L	0.001	55	100	67	19	Standard
⌈	Ba	135	11.702	ug/L	0.226	1	78	40560	0	Standard
⌊	Ba	137	11.512	ug/L	0.182	1	142	70545	1	Standard
⌈>	Tb	159		ug/L			675781	642539	3	Standard
⌊	Pb	208	0.061	ug/L	0.002	3	179	2803	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:14:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			766222	736408	3	Standard
[	Be	9	0.000	ug/L	0.001	789	7	8	93	Standard
	C	13		ug/L			36839	50347	0	Standard
	Cl	37		ug/L			4390964	8267196	1	Standard
[>	Sc	45		ug/L			538647	518876	0	Standard
[	Cr	52	1.246	ug/L	0.020	1	15443	38055	0	Standard
[	Cr	53	6.802	ug/L	0.124	1	178	15032	1	Standard
[>	Ge	72		ug/L			26915	24954	1	KED
[	Ni	60	0.870	ug/L	0.033	3	40	890	1	KED
[	Ni	62	0.871	ug/L	0.020	2	6	142	3	KED
[	Cu	63	0.315	ug/L	0.016	5	46	933	5	KED
[	Cu	65	0.312	ug/L	0.035	11	30	468	10	KED
[	Zn	66	9.225	ug/L	0.273	2	35	3540	1	KED
[	Zn	67	9.587	ug/L	0.529	5	6	623	3	KED
[	As	75	0.304	ug/L	0.016	5	7	65	6	KED
[	Se	78	0.315	ug/L	0.106	33	14	19	9	KED
	Y	89		ug/L			287925	265094	1	Standard
	Kr	83		ug/L			53	59	12	Standard
[>	In-1	115		ug/L			7687	7034	1	KED
[	Cd	111	0.007	ug/L	0.003	36	4	5	10	KED
[	Cd	114	0.003	ug/L	0.008	289	7	8	49	KED
[>	In	115		ug/L			427037	391374	1	Standard
[	Ag	107	-0.002	ug/L	0.002	78	100	66	29	Standard
[	Ba	135	11.016	ug/L	0.055	0	78	39169	1	Standard
[	Ba	137	10.952	ug/L	0.220	2	142	68825	0	Standard
[>	Tb	159		ug/L			675781	641278	0	Standard
[	Pb	208	0.064	ug/L	0.003	4	179	2909	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:19:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			766222	751827	4	Standard
⌊	Be	9	23.654	ug/L	0.867	3	7	181365	1	Standard
	C	13		ug/L			36839	53210	1	Standard
	Cl	37		ug/L			4390964	8403110	3	Standard
⌈>	Sc	45		ug/L			538647	532874	2	Standard
⌈	Cr	52	25.916	ug/L	0.336	1	15443	510384	1	Standard
⌊	Cr	53	28.549	ug/L	0.427	1	178	64213	1	Standard
⌈>	Ge	72		ug/L			26915	25773	1	KED
⌈	Ni	60	25.810	ug/L	0.508	1	40	26187	2	KED
⌊	Ni	62	26.931	ug/L	0.355	1	6	4361	1	KED
⌈	Cu	63	25.545	ug/L	0.198	0	46	74535	1	KED
⌊	Cu	65	25.150	ug/L	0.081	0	30	36709	2	KED
⌈	Zn	66	84.706	ug/L	1.272	1	35	33306	1	KED
⌊	Zn	67	78.523	ug/L	1.671	2	6	5228	0	KED
⌈	As	75	25.367	ug/L	0.346	1	7	5045	0	KED
⌊	Se	78	75.121	ug/L	2.309	3	14	1637	1	KED
	Y	89		ug/L			287925	279350	1	Standard
	Kr	83		ug/L			53	88	25	Standard
⌈>	In-1	115		ug/L			7687	7021	2	KED
⌈	Cd	111	24.919	ug/L	0.192	0	4	5475	2	KED
⌊	Cd	114	24.417	ug/L	0.132	0	7	13043	2	KED
⌈>	In	115		ug/L			427037	388670	0	Standard
⌈	Ag	107	24.614	ug/L	0.249	1	100	322795	1	Standard
⌈	Ba	135	37.012	ug/L	0.098	0	78	130535	1	Standard
⌊	Ba	137	37.464	ug/L	0.705	1	142	233568	2	Standard
⌈>	Tb	159		ug/L			675781	664809	2	Standard
⌊	Pb	208	24.608	ug/L	0.631	2	179	1100344	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:23:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	726911	4	Standard
	Be	9	24.199	ug/L	1.182	4	7	179387	3	Standard
	C	13		ug/L			36839	53507	1	Standard
	Cl	37		ug/L			4390964	8166185	2	Standard
>	Sc	45		ug/L			538647	527968	3	Standard
	Cr	52	25.897	ug/L	0.178	0	15443	505351	2	Standard
	Cr	53	28.119	ug/L	0.479	1	178	62671	3	Standard
>	Ge	72		ug/L			26915	25855	1	KED
	Ni	60	25.915	ug/L	0.714	2	40	26372	1	KED
	Ni	62	26.849	ug/L	1.297	4	6	4360	3	KED
	Cu	63	25.871	ug/L	0.515	1	46	75715	0	KED
	Cu	65	25.410	ug/L	0.498	1	30	37195	0	KED
	Zn	66	85.468	ug/L	1.679	1	35	33708	0	KED
	Zn	67	80.826	ug/L	3.280	4	6	5398	3	KED
	As	75	25.584	ug/L	0.447	1	7	5105	0	KED
	Se	78	76.238	ug/L	3.545	4	14	1666	3	KED
	Y	89		ug/L			287925	271289	2	Standard
	Kr	83		ug/L			53	93	16	Standard
>	In-1	115		ug/L			7687	7249	2	KED
	Cd	111	24.571	ug/L	0.730	2	4	5570	2	KED
	Cd	114	24.579	ug/L	0.313	1	7	13551	1	KED
>	In	115		ug/L			427037	391727	1	Standard
	Ag	107	24.401	ug/L	0.433	1	100	322486	2	Standard
	Ba	135	37.405	ug/L	0.312	0	78	132960	2	Standard
	Ba	137	37.285	ug/L	0.793	2	142	234224	1	Standard
>	Tb	159		ug/L			675781	663708	2	Standard
	Pb	208	24.736	ug/L	0.443	1	179	1104347	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:32:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	912346	1	Standard
⌊	**Be**	**9**	**0.018**	ug/L	0.003	16	7	179	15	Standard
	C	**13**		ug/L			36839	67964	2	Standard
	Cl	**37**		ug/L			4390964	4919248	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	602487	1	Standard
⌈	**Cr**	**52**	**5.314**	ug/L	0.101	1	15443	132053	1	Standard
⌊	**Cr**	**53**	**5.457**	ug/L	0.128	2	178	14039	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	25000	1	KED
⌈	**Ni**	**60**	**0.398**	ug/L	0.026	6	40	429	5	KED
⌊	**Ni**	**62**	**0.356**	ug/L	0.044	12	6	62	9	KED
⌈	**Cu**	**63**	**6.924**	ug/L	0.075	1	46	19629	1	KED
⌊	**Cu**	**65**	**6.852**	ug/L	0.059	0	30	9720	1	KED
⌈	**Zn**	**66**	**2.973**	ug/L	0.136	4	35	1165	4	KED
⌊	**Zn**	**67**	**2.941**	ug/L	0.392	13	6	196	12	KED
⌈	**As**	**75**	**0.077**	ug/L	0.036	47	7	21	32	KED
⌊	**Se**	**78**	**0.073**	ug/L	0.106	146	14	14	14	KED
	Y	**89**		ug/L			287925	293961	1	Standard
	Kr	**83**		ug/L			53	58	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7037	0	KED
⌈	**Cd**	**111**	**0.069**	ug/L	0.027	38	4	19	31	KED
⌊	**Cd**	**114**	**0.071**	ug/L	0.019	26	7	44	23	KED
⌈>	**In**	**115**		ug/L			427037	407246	1	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	90	100	87	9	Standard
⌈	**Ba**	**135**	**1.533**	ug/L	0.038	2	78	5737	1	Standard
⌊	**Ba**	**137**	**1.576**	ug/L	0.005	0	142	10425	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	667021	1	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	12	179	565	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:37:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	780703	0	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.000	27	7	18	15	Standard
	C	**13**		ug/L			36839	55740	2	Standard
	Cl	**37**		ug/L			4390964	4760158	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	586311	0	Standard
⌈	**Cr**	**52**	**8.624**	ug/L	0.091	1	15443	198112	0	Standard
⌊	**Cr**	**53**	**8.735**	ug/L	0.167	1	178	21755	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	24887	1	KED
⌈	**Ni**	**60**	**0.239**	ug/L	0.025	10	40	271	8	KED
⌊	**Ni**	**62**	**0.386**	ug/L	0.048	12	6	66	10	KED
⌈	**Cu**	**63**	**6.676**	ug/L	0.168	2	46	18839	2	KED
⌊	**Cu**	**65**	**6.520**	ug/L	0.102	1	30	9211	2	KED
⌈	**Zn**	**66**	**1.565**	ug/L	0.173	11	35	626	9	KED
⌊	**Zn**	**67**	**1.404**	ug/L	0.311	22	6	96	19	KED
⌈	**As**	**75**	**0.052**	ug/L	0.006	10	7	16	7	KED
⌊	**Se**	**78**	**0.168**	ug/L	0.098	58	14	16	12	KED
	Y	**89**		ug/L			287925	287175	0	Standard
	Kr	**83**		ug/L			53	53	10	Standard
⌈>	**In-1**	**115**		ug/L			7687	6838	2	KED
⌈	**Cd**	**111**	**0.010**	ug/L	0.005	50	4	5	16	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	56	7	3	56	KED
⌈>	**In**	**115**		ug/L			427037	398019	0	Standard
⌈	**Ag**	**107**	**-0.002**	ug/L	0.001	52	100	67	20	Standard
⌈	**Ba**	**135**	**1.604**	ug/L	0.025	1	78	5862	1	Standard
⌊	**Ba**	**137**	**1.630**	ug/L	0.032	1	142	10535	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	646052	1	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.001	11	179	642	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:42:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	821976	2	Standard
[	**Be**	**9**	**0.000**	ug/L	0.000	4384	7	8	48	Standard
	C	**13**		ug/L			36839	58274	2	Standard
	Cl	**37**		ug/L			4390964	4796965	2	Standard
[>	**Sc**	**45**		ug/L			538647	575786	2	Standard
[	**Cr**	**52**	**4.265**	ug/L	0.110	2	15443	104523	1	Standard
[	**Cr**	**53**	**4.287**	ug/L	0.028	0	178	10584	2	Standard
[>	**Ge**	**72**		ug/L			26915	25056	1	KED
[	**Ni**	**60**	**0.274**	ug/L	0.020	7	40	307	6	KED
[	**Ni**	**62**	**0.351**	ug/L	0.047	13	6	61	10	KED
[	**Cu**	**63**	**5.490**	ug/L	0.069	1	46	15606	0	KED
[	**Cu**	**65**	**5.463**	ug/L	0.205	3	30	7772	2	KED
[	**Zn**	**66**	**1.111**	ug/L	0.083	7	35	457	7	KED
[	**Zn**	**67**	**1.127**	ug/L	0.174	15	6	79	14	KED
[	**As**	**75**	**0.049**	ug/L	0.010	19	7	16	10	KED
[	**Se**	**78**	**0.183**	ug/L	0.089	48	14	17	11	KED
	Y	**89**		ug/L			287925	288859	2	Standard
	Kr	**83**		ug/L			53	62	10	Standard
[>	**In-1**	**115**		ug/L			7687	6945	1	KED
[	**Cd**	**111**	**-0.003**	ug/L	0.005	208	4	3	34	KED
[	**Cd**	**114**	**-0.006**	ug/L	0.000	4	7	3	2	KED
[>	**In**	**115**		ug/L			427037	393264	2	Standard
[	**Ag**	**107**	**-0.004**	ug/L	0.001	25	100	41	32	Standard
[	**Ba**	**135**	**1.978**	ug/L	0.036	1	78	7125	0	Standard
[	**Ba**	**137**	**1.934**	ug/L	0.053	2	142	12318	2	Standard
[>	**Tb**	**159**		ug/L			675781	642706	3	Standard
[	**Pb**	**208**	**0.008**	ug/L	0.002	19	179	516	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-03RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:47:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			766222	774703	3	Standard
[	Be	9	0.001	ug/L	0.001	59	7	15	33	Standard
	C	13		ug/L			36839	43423	2	Standard
	Cl	37		ug/L			4390964	6080299	3	Standard
[>	Sc	45		ug/L			538647	538459	1	Standard
[	Cr	52	1.046	ug/L	0.063	6	15443	35630	2	Standard
[	Cr	53	3.161	ug/L	0.048	1	178	7344	0	Standard
[>	Ge	72		ug/L			26915	27407	3	KED
[	Ni	60	0.698	ug/L	0.047	6	40	792	3	KED
[	Ni	62	0.658	ug/L	0.090	13	6	120	9	KED
[	Cu	63	0.726	ug/L	0.010	1	46	2298	4	KED
[	Cu	65	0.702	ug/L	0.032	4	30	1120	6	KED
[	Zn	66	71.328	ug/L	2.504	3	35	29811	1	KED
[	Zn	67	65.341	ug/L	2.161	3	6	4625	1	KED
[	As	75	0.160	ug/L	0.025	15	7	40	11	KED
[	Se	78	0.004	ug/L	0.105	2356	14	14	13	KED
	Y	89		ug/L			287925	280000	1	Standard
	Kr	83		ug/L			53	48	23	Standard
[>	In-1	115		ug/L			7687	7155	0	KED
[	Cd	111	0.048	ug/L	0.015	30	4	14	22	KED
[	Cd	114	0.044	ug/L	0.019	43	7	30	34	KED
[>	In	115		ug/L			427037	400380	0	Standard
[	Ag	107	-0.002	ug/L	0.000	20	100	60	11	Standard
[	Ba	135	2.101	ug/L	0.026	1	78	7701	0	Standard
[	Ba	137	2.077	ug/L	0.031	1	142	13464	1	Standard
[>	Tb	159		ug/L			675781	646508	1	Standard
[	Pb	208	0.139	ug/L	0.005	3	179	6207	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:53:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	797678	4	Standard
⌊	**Be**	**9**	**50.420**	ug/L	3.534	7	7	409745	2	Standard
	C	**13**		ug/L			36839	40863	3	Standard
	Cl	**37**		ug/L			4390964	4839629	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	566405	2	Standard
⌈	**Cr**	**52**	**48.841**	ug/L	1.149	2	15443	1007853	0	Standard
⌊	**Cr**	**53**	**48.106**	ug/L	1.945	4	178	114842	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26784	1	KED
⌈	**Ni**	**60**	**51.196**	ug/L	0.675	1	40	53944	1	KED
⌊	**Ni**	**62**	**51.771**	ug/L	1.197	2	6	8707	1	KED
⌈	**Cu**	**63**	**52.533**	ug/L	0.204	0	46	159260	1	KED
⌊	**Cu**	**65**	**51.399**	ug/L	0.336	0	30	77929	1	KED
⌈	**Zn**	**66**	**51.373**	ug/L	1.302	2	35	21006	2	KED
⌊	**Zn**	**67**	**50.463**	ug/L	2.336	4	6	3493	3	KED
⌈	**As**	**75**	**49.584**	ug/L	0.472	0	7	10244	1	KED
⌊	**Se**	**78**	**50.237**	ug/L	0.659	1	14	1142	0	KED
	Y	**89**		ug/L			287925	295022	1	Standard
	Kr	**83**		ug/L			53	65	14	Standard
⌈>	**In-1**	**115**		ug/L			7687	7443	1	KED
⌈	**Cd**	**111**	**51.461**	ug/L	0.271	0	4	11979	1	KED
⌊	**Cd**	**114**	**50.886**	ug/L	0.898	1	7	28802	0	KED
⌈>	**In**	**115**		ug/L			427037	424855	1	Standard
⌈	**Ag**	**107**	**49.020**	ug/L	0.600	1	100	702505	1	Standard
⌈	**Ba**	**135**	**47.893**	ug/L	0.836	1	78	184584	0	Standard
⌊	**Ba**	**137**	**47.266**	ug/L	1.177	2	142	321984	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	673995	1	Standard
⌊	**Pb**	**208**	**50.717**	ug/L	1.557	3	179	2299094	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:00:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	774985	5	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	240	7	6	45	Standard
	C	**13**		ug/L			36839	41009	7	Standard
	Cl	**37**		ug/L			4390964	4455865	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	545509	2	Standard
⌈	**Cr**	**52**	**0.008**	ug/L	0.035	422	15443	15802	5	Standard
⌊	**Cr**	**53**	**0.044**	ug/L	0.003	5	178	281	4	Standard
⌈>	**Ge**	**72**		ug/L			26915	27073	3	KED
⌈	**Ni**	**60**	**-0.009**	ug/L	0.013	147	40	31	41	KED
⌊	**Ni**	**62**	**0.026**	ug/L	0.039	148	6	11	57	KED
⌈	**Cu**	**63**	**-0.007**	ug/L	0.002	26	46	24	26	KED
⌊	**Cu**	**65**	**-0.011**	ug/L	0.001	11	30	13	15	KED
⌈	**Zn**	**66**	**-0.051**	ug/L	0.017	33	35	14	45	KED
⌊	**Zn**	**67**	**-0.038**	ug/L	0.055	145	6	4	89	KED
⌈	**As**	**75**	**0.011**	ug/L	0.005	45	7	9	7	KED
⌊	**Se**	**78**	**-0.027**	ug/L	0.086	317	14	13	10	KED
	Y	**89**		ug/L			287925	286699	0	Standard
	Kr	**83**		ug/L			53	53	19	Standard
⌈>	**In-1**	**115**		ug/L			7687	7508	1	KED
⌈	**Cd**	**111**	**-0.012**	ug/L	0.002	19	4	1	43	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	25	7	3	34	KED
⌈>	**In**	**115**		ug/L			427037	419721	1	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.001	311	100	94	14	Standard
⌈	**Ba**	**135**	**-0.015**	ug/L	0.001	5	78	19	17	Standard
⌊	**Ba**	**137**	**-0.016**	ug/L	0.001	4	142	30	16	Standard
⌈>	**Tb**	**159**		ug/L			675781	661696	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	32	179	116	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:09:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				38749	0	Standard
	Cl	**37**		ug/L				4373298	0	Standard
⎡>	**Sc**	**45**		ug/L				544532	2	Standard
⎢	**Cr**	**52**		ug/L				15553	1	Standard
⎣	**Cr**	**53**		ug/L				269	1	Standard
⎡>	**Ge**	**72**		ug/L				26846	0	KED
⎢	**Cu**	**63**		ug/L				27	28	KED
⎢	**Cu**	**65**		ug/L				13	69	KED
⎢	**Zn**	**66**		ug/L				22	24	KED
⎢	**Zn**	**67**		ug/L				3	86	KED
⎣	**As**	**75**		ug/L				6	4	KED
	Y	**89**		ug/L				285357	0	Standard
	Kr	**83**		ug/L				53	21	Standard
⎡>	**In-1**	**115**		ug/L				7783	3	KED
⎢	**Cd**	**111**		ug/L				3	41	KED
⎣	**Cd**	**114**		ug/L				5	67	KED
⎡>	**In**	**115**		ug/L				420460	0	Standard
⎣	**Ag**	**107**		ug/L				62	16	Standard
⎡>	**Tb**	**159**		ug/L				655044	1	Standard
⎣	**Pb**	**208**		ug/L				75	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:14:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	38090	1	Standard
	Cl	**37**		ug/L			4373298	4577464	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	545775	1	Standard
|	**Cr**	**52**	**48.528**	ug/L	0.983	2	15553	965437	3	Standard
⌊	**Cr**	**53**	**48.032**	ug/L	0.311	0	269	110639	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26812	0	KED
|	**Cu**	**63**	**51.540**	ug/L	0.266	0	27	156393	1	KED
|	**Cu**	**65**	**51.032**	ug/L	0.859	1	13	77432	1	KED
|	**Zn**	**66**	**52.777**	ug/L	0.848	1	22	21590	1	KED
|	**Zn**	**67**	**49.918**	ug/L	1.646	3	3	3458	3	KED
⌊	**As**	**75**	**50.482**	ug/L	0.469	0	6	10440	0	KED
	Y	**89**		ug/L			285357	282671	2	Standard
	Kr	**83**		ug/L			53	63	19	Standard
⌈>	**In-1**	**115**		ug/L			7783	7197	1	KED
|	**Cd**	**111**	**50.185**	ug/L	0.807	1	3	11294	1	KED
⌊	**Cd**	**114**	**50.894**	ug/L	1.155	2	5	27850	1	KED
⌈>	**In**	**115**		ug/L			420460	412709	1	Standard
⌊	**Ag**	**107**	**49.501**	ug/L	0.808	1	62	689142	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	665426	1	Standard
⌊	**Pb**	**208**	**50.709**	ug/L	1.267	2	75	2269930	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:21:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	39198	0	Standard
	Cl	**37**		ug/L			4373298	4343461	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	536172	3	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.031	155	15553	15682	2	Standard
⌊	**Cr**	**53**	**-0.020**	ug/L	0.009	43	269	220	7	Standard
⌈>	**Ge**	**72**		ug/L			26846	26546	1	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	102	27	23	16	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	108	13	20	35	KED
|	**Zn**	**66**	**-0.018**	ug/L	0.008	41	22	14	19	KED
|	**Zn**	**67**	**0.020**	ug/L	0.059	301	3	5	78	KED
⌊	**As**	**75**	**0.014**	ug/L	0.008	56	6	9	15	KED
	Y	**89**		ug/L			285357	284792	1	Standard
	Kr	**83**		ug/L			53	52	2	Standard
⌈>	**In-1**	**115**		ug/L			7783	7757	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.008	105	3	1	124	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.003	50	5	1	123	KED
⌈>	**In**	**115**		ug/L			420460	427056	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	20	62	85	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	653515	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	61	75	101	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:26:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	58344	3	Standard
	Cl	**37**		ug/L			4373298	4263896	1	Standard
⎡>	**Sc**	**45**		ug/L			544532	539725	4	Standard
⎢	**Cr**	**52**	**0.088**	ug/L	0.010	11	15553	17122	3	Standard
⎣	**Cr**	**53**	**0.015**	ug/L	0.006	40	269	302	4	Standard
⎡>	**Ge**	**72**		ug/L			26846	26368	2	KED
⎢	**Cu**	**63**	**0.025**	ug/L	0.007	30	27	101	24	KED
⎢	**Cu**	**65**	**0.023**	ug/L	0.003	13	13	47	12	KED
⎢	**Zn**	**66**	**0.405**	ug/L	0.020	4	22	184	5	KED
⎢	**Zn**	**67**	**0.347**	ug/L	0.049	14	3	27	10	KED
⎣	**As**	**75**	**0.003**	ug/L	0.007	233	6	7	19	KED
	Y	**89**		ug/L			285357	285701	4	Standard
	Kr	**83**		ug/L			53	59	21	Standard
⎡>	**In-1**	**115**		ug/L			7783	7662	0	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.009	319	3	4	53	KED
⎣	**Cd**	**114**	**-0.006**	ug/L	0.004	59	5	2	99	KED
⎡>	**In**	**115**		ug/L			420460	420772	3	Standard
⎣	**Ag**	**107**	**0.001**	ug/L	0.000	7	62	77	3	Standard
⎡>	**Tb**	**159**		ug/L			655044	646587	1	Standard
⎣	**Pb**	**208**	**0.036**	ug/L	0.003	7	75	1635	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:31:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53484	2	Standard
	Cl	**37**		ug/L			4373298	4386594	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	558105	1	Standard
|	**Cr**	**52**	**25.966**	ug/L	0.498	1	15553	535527	1	Standard
⌊	**Cr**	**53**	**25.514**	ug/L	0.088	0	269	60231	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27120	2	KED
|	**Cu**	**63**	**27.463**	ug/L	0.347	1	27	84289	1	KED
|	**Cu**	**65**	**26.770**	ug/L	0.670	2	13	41107	4	KED
|	**Zn**	**66**	**83.393**	ug/L	1.396	1	22	34502	3	KED
|	**Zn**	**67**	**75.694**	ug/L	1.250	1	3	5300	1	KED
⌊	**As**	**75**	**25.103**	ug/L	0.196	0	6	5255	2	KED
	Y	**89**		ug/L			285357	290322	0	Standard
	Kr	**83**		ug/L			53	66	28	Standard
⌈>	**In-1**	**115**		ug/L			7783	7965	1	KED
|	**Cd**	**111**	**25.705**	ug/L	0.249	0	3	6404	0	KED
⌊	**Cd**	**114**	**25.842**	ug/L	1.013	3	5	15652	2	KED
⌈>	**In**	**115**		ug/L			420460	428519	1	Standard
⌊	**Ag**	**107**	**26.572**	ug/L	0.397	1	62	384078	0	Standard
⌈>	**Tb**	**159**		ug/L			655044	672287	2	Standard
⌊	**Pb**	**208**	**27.254**	ug/L	0.735	2	75	1232199	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:35:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	48169	0	Standard
	Cl	37		ug/L			4373298	4350216	1	Standard
⌈>	Sc	45		ug/L			544532	538380	4	Standard
|	Cr	52	0.043	ug/L	0.014	32	15553	16207	3	Standard
⌊	Cr	53	-0.006	ug/L	0.009	145	269	252	3	Standard
⌈>	Ge	72		ug/L			26846	28199	1	KED
|	Cu	63	0.084	ug/L	0.003	3	27	297	4	KED
|	Cu	65	0.098	ug/L	0.010	9	13	170	10	KED
|	Zn	66	0.546	ug/L	0.041	7	22	257	5	KED
|	Zn	67	0.591	ug/L	0.046	7	3	46	6	KED
⌊	As	75	0.012	ug/L	0.015	128	6	9	33	KED
	Y	89		ug/L			285357	280586	4	Standard
	Kr	83		ug/L			53	48	17	Standard
⌈>	In-1	115		ug/L			7783	7833	3	KED
|	Cd	111	0.004	ug/L	0.010	256	3	4	53	KED
⌊	Cd	114	-0.002	ug/L	0.004	212	5	4	44	KED
⌈>	In	115		ug/L			420460	417966	4	Standard
⌊	Ag	107	0.004	ug/L	0.001	22	62	123	9	Standard
⌈>	Tb	159		ug/L			655044	659631	3	Standard
⌊	Pb	208	0.056	ug/L	0.001	2	75	2541	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:39:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	48048	1	Standard
	Cl	37		ug/L			4373298	4388511	5	Standard
>	Sc	45		ug/L			544532	554424	1	Standard
	Cr	52	24.971	ug/L	0.344	1	15553	512202	0	Standard
	Cr	53	25.143	ug/L	0.669	2	269	58957	2	Standard
>	Ge	72		ug/L			26846	27851	1	KED
	Cu	63	26.906	ug/L	0.774	2	27	84802	1	KED
	Cu	65	26.106	ug/L	0.472	1	13	41151	0	KED
	Zn	66	83.282	ug/L	2.233	2	22	35371	1	KED
	Zn	67	76.524	ug/L	2.580	3	3	5502	2	KED
	As	75	24.940	ug/L	0.578	2	6	5360	1	KED
	Y	89		ug/L			285357	292300	1	Standard
	Kr	83		ug/L			53	58	24	Standard
>	In-1	115		ug/L			7783	7574	1	KED
	Cd	111	25.372	ug/L	0.645	2	3	6010	0	KED
	Cd	114	25.419	ug/L	0.331	1	5	14645	2	KED
>	In	115		ug/L			420460	430116	2	Standard
	Ag	107	25.708	ug/L	0.722	2	62	372868	0	Standard
>	Tb	159		ug/L			655044	665828	1	Standard
	Pb	208	26.796	ug/L	0.226	0	75	1200306	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0328-17RE1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:44:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	59818	3	Standard
	Cl	37		ug/L			4373298	4538044	1	Standard
>	Sc	45		ug/L			544532	630380	4	Standard
	Cr	52	30.718	ug/L	0.356	1	15553	712212	3	Standard
	Cr	53	30.618	ug/L	0.333	1	269	81549	3	Standard
>	Ge	72		ug/L			26846	27906	2	KED
	Cu	63	625.494	ug/L	3.218	0	27	1975205	3	KED
	Cu	65	616.225	ug/L	7.088	1	13	973065	2	KED
	Zn	66	228.517	ug/L	3.276	1	22	97205	1	KED
	Zn	67	205.127	ug/L	3.059	1	3	14773	1	KED
	As	75	8.548	ug/L	0.146	1	6	1845	1	KED
	Y	89		ug/L			285357	467923	4	Standard
	Kr	83		ug/L			53	109	4	Standard
>	In-1	115		ug/L			7783	7679	2	KED
	Cd	111	0.393	ug/L	0.013	3	3	97	0	KED
	Cd	114	0.380	ug/L	0.045	11	5	227	8	KED
>	In	115		ug/L			420460	422799	1	Standard
	Ag	107	0.172	ug/L	0.010	6	62	2512	7	Standard
>	Tb	159		ug/L			655044	678316	4	Standard
	Pb	208	126.420	ug/L	2.040	1	75	5767564	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:52:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	52083	1	Standard
	Cl	37		ug/L			4373298	4550764	2	Standard
>	Sc	45		ug/L			544532	612694	2	Standard
	Cr	52	20.329	ug/L	0.225	1	15553	464034	1	Standard
	Cr	53	20.621	ug/L	0.348	1	269	53484	1	Standard
>	Ge	72		ug/L			26846	27804	2	KED
	Cu	63	508.763	ug/L	8.302	1	27	1600281	0	KED
	Cu	65	507.261	ug/L	19.060	3	13	797685	1	KED
	Zn	66	181.592	ug/L	4.780	2	22	76952	0	KED
	Zn	67	164.663	ug/L	9.360	5	3	11809	3	KED
	As	75	7.027	ug/L	0.136	1	6	1512	0	KED
	Y	89		ug/L			285357	424552	2	Standard
	Kr	83		ug/L			53	96	4	Standard
>	In-1	115		ug/L			7783	8047	0	KED
	Cd	111	0.234	ug/L	0.039	16	3	62	15	KED
	Cd	114	0.253	ug/L	0.046	18	5	160	17	KED
>	In	115		ug/L			420460	430369	2	Standard
	Ag	107	0.166	ug/L	0.008	5	62	2477	5	Standard
>	Tb	159		ug/L			655044	687911	1	Standard
	Pb	208	56.232	ug/L	0.929	1	75	2602104	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:56:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	54071	0	Standard
	Cl	37		ug/L			4373298	4522522	1	Standard
>	Sc	45		ug/L			544532	601568	3	Standard
	Cr	52	55.490	ug/L	1.179	2	15553	1213691	1	Standard
	Cr	53	55.449	ug/L	0.626	1	269	140724	2	Standard
>	Ge	72		ug/L			26846	26612	2	KED
	Cu	63	722.262	ug/L	15.212	2	27	2174287	1	KED
	Cu	65	704.624	ug/L	10.041	1	13	1061278	3	KED
	Zn	66	345.772	ug/L	8.173	2	22	140217	0	KED
	Zn	67	315.466	ug/L	6.638	2	3	21660	0	KED
	As	75	33.178	ug/L	0.463	1	6	6811	1	KED
	Y	89		ug/L			285357	436240	1	Standard
	Kr	83		ug/L			53	104	4	Standard
>	In-1	115		ug/L			7783	7811	2	KED
	Cd	111	25.431	ug/L	0.099	0	3	6214	2	KED
	Cd	114	25.308	ug/L	0.774	3	5	15035	3	KED
>	In	115		ug/L			420460	414417	3	Standard
	Ag	107	22.208	ug/L	0.571	2	62	310498	4	Standard
>	Tb	159		ug/L			655044	668577	4	Standard
	Pb STL	208	100.793	ug/L	3.673	3	75	4529260	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:01:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	54832	1	Standard
	Cl	37		ug/L			4373298	4588147	1	Standard
>	Sc	45		ug/L			544532	602445	3	Standard
	Cr	52	54.715	ug/L	1.595	2	15553	1198428	0	Standard
	Cr	53	55.188	ug/L	1.650	2	269	140190	0	Standard
>	Ge	72		ug/L			26846	26816	3	KED
	Cu	63	939.535	ug/L	18.345	1	27	2849594	1	KED
	Cu	65	928.960	ug/L	18.348	1	13	1409026	1	KED
	Zn	66	390.414	ug/L	10.384	2	22	159533	2	KED
	Zn	67	346.776	ug/L	6.381	1	3	23992	1	KED
	As	75	34.162	ug/L	0.429	1	6	7066	2	KED
	Y	89		ug/L			285357	450820	2	Standard
	Kr	83		ug/L			53	120	7	Standard
>	In-1	115		ug/L			7783	7527	2	KED
	Cd	111	26.005	ug/L	0.515	1	3	6124	3	KED
	Cd	114	25.560	ug/L	0.289	1	5	14635	3	KED
>	In	115		ug/L			420460	423255	2	Standard
	Ag	107	24.480	ug/L	0.381	1	62	349489	2	Standard
>	Tb	159		ug/L			655044	674491	1	Standard
	Pb	208	218.951	ug/L	2.288	1	75	9934463	0	Standard

STL

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-02
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:06:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56723	2	Standard
	Cl	**37**		ug/L			4373298	4159333	0	Standard
⌈>	**Sc**	**45**		ug/L			544532	587519	0	Standard
|	**Cr**	**52**	**7.317**	ug/L	0.137	1	15553	170901	0	Standard
⌊	**Cr**	**53**	**7.251**	ug/L	0.060	0	269	18226	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	27201	1	KED
|	**Cu**	**63**	**18.141**	ug/L	0.091	0	27	55865	1	KED
|	**Cu**	**65**	**17.904**	ug/L	0.282	1	13	27570	1	KED
|	**Zn**	**66**	**37.705**	ug/L	0.130	0	22	15655	1	KED
|	**Zn**	**67**	**36.393**	ug/L	1.331	3	3	2557	2	KED
⌊	**As**	**75**	**3.565**	ug/L	0.196	5	6	754	3	KED
	Y	**89**		ug/L			285357	395815	0	Standard
	Kr	**83**		ug/L			53	96	6	Standard
⌈>	**In-1**	**115**		ug/L			7783	7594	1	KED
|	**Cd**	**111**	**0.187**	ug/L	0.008	4	3	47	4	KED
⌊	**Cd**	**114**	**0.165**	ug/L	0.018	10	5	100	9	KED
⌈>	**In**	**115**		ug/L			420460	413871	1	Standard
⌊	**Ag**	**107**	**0.226**	ug/L	0.010	4	62	3209	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	665549	2	Standard
⌊	**Pb**	**208**	**14.605**	ug/L	0.308	2	75	653828	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:11:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	40021	0	Standard
	Cl	**37**		ug/L			4373298	4088119	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	508293	4	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.005	110	15553	14442	3	Standard
⌊	**Cr**	**53**	**-0.039**	ug/L	0.007	19	269	169	12	Standard
⌈>	**Ge**	**72**		ug/L			26846	27199	1	KED
|	**Cu**	**63**	**0.013**	ug/L	0.005	37	27	66	20	KED
|	**Cu**	**65**	**0.013**	ug/L	0.005	42	13	33	25	KED
|	**Zn**	**66**	**0.030**	ug/L	0.034	112	22	34	39	KED
|	**Zn**	**67**	**0.035**	ug/L	0.056	158	3	6	62	KED
⌊	**As**	**75**	**0.002**	ug/L	0.010	498	6	7	26	KED
	Y	**89**		ug/L			285357	273023	2	Standard
	Kr	**83**		ug/L			53	50	30	Standard
⌈>	**In-1**	**115**		ug/L			7783	7546	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.005	153	3	4	26	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.008	826	5	4	96	KED
⌈>	**In**	**115**		ug/L			420460	404873	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	54	62	67	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	639841	3	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	17	75	211	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:15:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37536	1	Standard
	Cl	**37**		ug/L			4373298	4468572	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	526216	0	Standard
|	**Cr**	**52**	**50.086**	ug/L	0.096	0	15553	960071	0	Standard
⌊	**Cr**	**53**	**48.565**	ug/L	1.097	2	269	107850	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26172	0	KED
|	**Cu**	**63**	**50.453**	ug/L	1.540	3	27	149439	3	KED
|	**Cu**	**65**	**50.109**	ug/L	1.000	1	13	74224	1	KED
|	**Zn**	**66**	**50.529**	ug/L	0.840	1	22	20178	1	KED
|	**Zn**	**67**	**50.007**	ug/L	2.585	5	3	3381	5	KED
⌊	**As**	**75**	**49.682**	ug/L	1.024	2	6	10030	2	KED
	Y	**89**		ug/L			285357	280982	1	Standard
	Kr	**83**		ug/L			53	62	20	Standard
⌈>	**In-1**	**115**		ug/L			7783	7450	2	KED
|	**Cd**	**111**	**49.386**	ug/L	1.072	2	3	11504	2	KED
⌊	**Cd**	**114**	**49.889**	ug/L	0.552	1	5	28263	2	KED
⌈>	**In**	**115**		ug/L			420460	405587	0	Standard
⌊	**Ag**	**107**	**50.003**	ug/L	1.269	2	62	684015	1	Standard
⌈>	**Tb**	**159**		ug/L			655044	669733	2	Standard
⌊	**Pb**	**208**	**49.523**	ug/L	1.541	3	75	2230270	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:22:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36786	0	Standard
	Cl	**37**		ug/L			4373298	4128223	4	Standard
⌈>	**Sc**	**45**		ug/L			544532	495649	4	Standard
|	**Cr**	**52**	**-0.012**	ug/L	0.021	178	15553	13948	5	Standard
⌊	**Cr**	**53**	**-0.031**	ug/L	0.011	35	269	179	9	Standard
⌈>	**Ge**	**72**		ug/L			26846	25635	8	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	83	27	33	18	KED
|	**Cu**	**65**	**0.000**	ug/L	0.003	4036	13	13	28	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.015	71	22	13	49	KED
|	**Zn**	**67**	**-0.015**	ug/L	0.021	133	3	2	43	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.011	508	6	6	31	KED
	Y	**89**		ug/L			285357	260328	3	Standard
	Kr	**83**		ug/L			53	56	39	Standard
⌈>	**In-1**	**115**		ug/L			7783	7633	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.003	86	3	4	13	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.004	91	5	3	71	KED
⌈>	**In**	**115**		ug/L			420460	396829	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	60	62	85	16	Standard
⌈>	**Tb**	**159**		ug/L			655044	622410	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	75	111	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0328-17RE2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:29:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	41066	2	Standard
	Cl	**37**		ug/L			4373298	4040656	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	521480	4	Standard
|	**Cr**	**52**	**7.178**	ug/L	0.171	2	15553	149015	2	Standard
⌊	**Cr**	**53**	**6.972**	ug/L	0.061	0	269	15562	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	27101	1	KED
|	**Cu**	**63**	**132.008**	ug/L	2.047	1	27	404801	1	KED
|	**Cu**	**65**	**128.587**	ug/L	3.154	2	13	197202	2	KED
|	**Zn**	**66**	**48.286**	ug/L	1.349	2	22	19962	1	KED
|	**Zn**	**67**	**43.417**	ug/L	0.051	0	3	3040	1	KED
⌊	**As**	**75**	**1.807**	ug/L	0.051	2	6	384	3	KED
	Y	**89**		ug/L			285357	302337	2	Standard
	Kr	**83**		ug/L			53	55	19	Standard
⌈>	**In-1**	**115**		ug/L			7783	7683	2	KED
|	**Cd**	**111**	**0.052**	ug/L	0.023	43	3	15	35	KED
⌊	**Cd**	**114**	**0.081**	ug/L	0.024	30	5	52	25	KED
⌈>	**In**	**115**		ug/L			420460	403033	2	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	5	62	516	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	643082	3	Standard
⌊	**Pb**	**208**	**26.174**	ug/L	0.638	2	75	1131774	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-DUP2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:35:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	40896	0	Standard
	Cl	37		ug/L			4373298	4209745	1	Standard
>	Sc	45		ug/L			544532	544099	1	Standard
	Cr	52	4.555	ug/L	0.105	2	15553	104382	0	Standard
	Cr	53	4.627	ug/L	0.056	1	269	10870	2	Standard
>	Ge	72		ug/L			26846	27314	0	KED
	Cu	63	106.361	ug/L	1.782	1	27	328728	1	KED
	Cu	65	103.471	ug/L	0.440	0	13	159937	0	KED
	Zn	66	38.887	ug/L	0.321	0	22	16213	1	KED
	Zn	67	35.086	ug/L	3.256	9	3	2475	8	KED
	As	75	1.434	ug/L	0.021	1	6	308	1	KED
	Y	89		ug/L			285357	311440	1	Standard
	Kr	83		ug/L			53	55	36	Standard
>	In-1	115		ug/L			7783	7335	0	KED
	Cd	111	0.044	ug/L	0.004	8	3	13	7	KED
	Cd	114	0.058	ug/L	0.007	12	5	37	10	KED
>	In	115		ug/L			420460	417332	0	Standard
	Ag	107	0.034	ug/L	0.003	7	62	538	6	Standard
>	Tb	159		ug/L			655044	662956	1	Standard
	Pb	208	11.947	ug/L	0.077	0	75	532912	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:40:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		**13**		ug/L			38749	39206	1	Standard
	Cl		**37**		ug/L			4373298	4159145	1	Standard
⌈>	**Sc**		**45**		ug/L			544532	532512	2	Standard
|	**Cr**		**52**	**12.346**	ug/L	0.273	2	15553	250877	2	Standard
⌊	**Cr**		**53**	**12.477**	ug/L	0.306	2	269	28224	0	Standard
⌈>	**Ge**		**72**		ug/L			26846	26192	3	KED
|	**Cu**		**63**	**147.418**	ug/L	3.298	2	27	436861	3	KED
|	**Cu**	STL	**65**	**147.599**	ug/L	1.055	0	13	218801	4	KED
|	**Zn**		**66**	**75.691**	ug/L	0.641	0	22	30244	4	KED
|	**Zn**		**67**	**67.692**	ug/L	0.763	1	3	4578	2	KED
⌊	**As**		**75**	**7.086**	ug/L	0.043	0	6	1437	3	KED
	Y		**89**		ug/L			285357	308191	3	Standard
	Kr		**83**		ug/L			53	43	12	Standard
⌈>	**In-1**		**115**		ug/L			7783	7669	0	KED
|	**Cd**		**111**	**5.352**	ug/L	0.085	1	3	1286	1	KED
⌊	**Cd**		**114**	**5.364**	ug/L	0.158	2	5	3134	3	KED
⌈>	**In**		**115**		ug/L			420460	409085	1	Standard
⌊	**Ag**		**107**	**4.642**	ug/L	0.090	1	62	64122	3	Standard
⌈>	**Tb**		**159**		ug/L			655044	660032	0	Standard
⌊	**Pb**		**208**	**20.323**	ug/L	0.216	1	75	902548	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MSD2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:44:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		**13**		ug/L			38749	40441	0	Standard
	Cl		**37**		ug/L			4373298	4154293	0	Standard
⌈>	**Sc**		**45**		ug/L			544532	532392	1	Standard
|	**Cr**		**52**	**12.089**	ug/L	0.164	1	15553	245978	1	Standard
⌊	**Cr**		**53**	**11.987**	ug/L	0.180	1	269	27130	1	Standard
⌈>	**Ge**		**72**		ug/L			26846	26927	1	KED
|	**Cu**		**63**	**193.480**	ug/L	1.283	0	27	589500	1	KED
|	**Cu**	STL	**65**	**190.848**	ug/L	3.571	1	13	290760	1	KED
|	**Zn**		**66**	**81.654**	ug/L	2.093	2	22	33524	0	KED
|	**Zn**		**67**	**75.581**	ug/L	1.074	1	3	5254	0	KED
⌊	**As**		**75**	**7.058**	ug/L	0.061	0	6	1471	1	KED
	Y		**89**		ug/L			285357	304519	1	Standard
	Kr		**83**		ug/L			53	59	23	Standard
⌈>	**In-1**		**115**		ug/L			7783	7192	0	KED
|	**Cd**		**111**	**5.338**	ug/L	0.010	0	3	1203	0	KED
⌊	**Cd**		**114**	**5.468**	ug/L	0.079	1	5	2995	0	KED
⌈>	**In**		**115**		ug/L			420460	404357	1	Standard
⌊	**Ag**		**107**	**5.268**	ug/L	0.109	2	62	71900	1	Standard
⌈>	**Tb**		**159**		ug/L			655044	651761	1	Standard
⌊	**Pb**		**208**	**44.437**	ug/L	1.189	2	75	1948094	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-07
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:50:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52306	1	Standard
	Cl	**37**		ug/L			4373298	4081899	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	548187	5	Standard
|	**Cr**	**52**	**7.168**	ug/L	0.230	3	15553	156410	3	Standard
⌊	**Cr**	**53**	**7.206**	ug/L	0.184	2	269	16891	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	25393	2	KED
|	**Cu**	**63**	**11.641**	ug/L	0.408	3	27	33458	1	KED
|	**Cu**	**65**	**11.573**	ug/L	0.095	0	13	16642	1	KED
|	**Zn**	**66**	**28.810**	ug/L	0.627	2	22	11169	1	KED
|	**Zn**	**67**	**27.355**	ug/L	1.159	4	3	1795	3	KED
⌊	**As**	**75**	**3.151**	ug/L	0.108	3	6	623	2	KED
	Y	**89**		ug/L			285357	347765	6	Standard
	Kr	**83**		ug/L			53	85	5	Standard
⌈>	**In-1**	**115**		ug/L			7783	6922	1	KED
|	**Cd**	**111**	**0.163**	ug/L	0.028	16	3	38	14	KED
⌊	**Cd**	**114**	**0.143**	ug/L	0.012	8	5	80	7	KED
⌈>	**In**	**115**		ug/L			420460	388044	6	Standard
⌊	**Ag**	**107**	**0.102**	ug/L	0.004	4	62	1388	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	626347	5	Standard
⌊	**Pb**	**208**	**9.590**	ug/L	0.373	3	75	403678	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:54:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56654	0	Standard
	Cl	**37**		ug/L			4373298	4140206	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	565534	3	Standard
|	**Cr**	**52**	**6.880**	ug/L	0.101	1	15553	155647	3	Standard
⌊	**Cr**	**53**	**6.903**	ug/L	0.140	2	269	16715	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	26727	2	KED
|	**Cu**	**63**	**11.309**	ug/L	0.277	2	27	34218	1	KED
|	**Cu**	**65**	**11.224**	ug/L	0.162	1	13	16985	1	KED
|	**Zn**	**66**	**29.153**	ug/L	0.564	1	22	11898	3	KED
|	**Zn**	**67**	**27.713**	ug/L	1.286	4	3	1913	2	KED
⌊	**As**	**75**	**3.031**	ug/L	0.089	2	6	630	0	KED
	Y	**89**		ug/L			285357	372250	1	Standard
	Kr	**83**		ug/L			53	82	4	Standard
⌈>	**In-1**	**115**		ug/L			7783	7042	1	KED
|	**Cd**	**111**	**0.134**	ug/L	0.025	18	3	32	16	KED
⌊	**Cd**	**114**	**0.119**	ug/L	0.021	17	5	68	15	KED
⌈>	**In**	**115**		ug/L			420460	402781	2	Standard
⌊	**Ag**	**107**	**0.127**	ug/L	0.004	3	62	1788	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	655706	4	Standard
⌊	**Pb**	**208**	**9.556**	ug/L	0.304	3	75	421264	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:58:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	49665	1	Standard
	Cl	37		ug/L			4373298	4147913	2	Standard
>	Sc	45		ug/L			544532	566335	2	Standard
	Cr	52	17.391	ug/L	0.146	0	15553	369320	2	Standard
	Cr	53	17.603	ug/L	0.033	0	269	42253	2	Standard
>	Ge	72		ug/L			26846	26383	1	KED
	Cu	63	22.722	ug/L	0.522	2	27	67847	1	KED
	Cu	65	21.723	ug/L	0.080	0	13	32443	1	KED
	Zn	66	64.950	ug/L	1.280	1	22	26143	3	KED
	Zn	67	60.522	ug/L	1.350	2	3	4124	2	KED
	As	75	13.473	ug/L	0.228	1	6	2746	1	KED
	Y	89		ug/L			285357	376628	2	Standard
	Kr	83		ug/L			53	106	14	Standard
>	In-1	115		ug/L			7783	7429	1	KED
	Cd	111	10.553	ug/L	0.254	2	3	2453	0	KED
	Cd	114	10.505	ug/L	0.509	4	5	5936	3	KED
>	In	115		ug/L			420460	406320	1	Standard
	Ag	107	6.759	ug/L	0.286	4	62	92685	4	Standard
>	Tb	159		ug/L			655044	649924	2	Standard
	Pb	208	21.579	ug/L	0.231	1	75	943455	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:03:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	51634	0	Standard
	Cl	37		ug/L			4373298	4163448	3	Standard
>	Sc	45		ug/L			544532	579776	2	Standard
	Cr	52	16.288	ug/L	0.447	2	15553	355071	2	Standard
	Cr	53	16.376	ug/L	0.205	1	269	40264	3	Standard
>	Ge	72		ug/L			26846	26560	1	KED
	Cu	63	21.273	ug/L	0.148	0	27	63961	1	KED
	Cu	65	21.046	ug/L	0.238	1	13	31646	2	KED
	Zn	66	61.193	ug/L	0.490	0	22	24793	0	KED
	Zn	67	57.157	ug/L	3.039	5	3	3919	4	KED
	As	75	13.207	ug/L	0.243	1	6	2710	1	KED
	Y	89		ug/L			285357	378405	2	Standard
	Kr	83		ug/L			53	97	16	Standard
>	In-1	115		ug/L			7783	7502	2	KED
	Cd	111	10.307	ug/L	0.486	4	3	2419	3	KED
	Cd	114	10.440	ug/L	0.165	1	5	5959	0	KED
>	In	115		ug/L			420460	408727	0	Standard
	Ag	107	6.457	ug/L	0.171	2	62	89082	2	Standard
>	Tb	159		ug/L			655044	661492	3	Standard
	Pb	208	17.934	ug/L	0.192	1	75	798005	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:07:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54508	1	Standard
	Cl	**37**		ug/L			4373298	4094284	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	553666	1	Standard
|	**Cr**	**52**	**29.162**	ug/L	0.821	2	15553	594670	2	Standard
⌊	**Cr**	**53**	**28.887**	ug/L	0.221	0	269	67610	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25823	1	KED
|	**Cu**	**63**	**36.999**	ug/L	0.476	1	27	108123	0	KED
|	**Cu**	**65**	**36.150**	ug/L	0.384	1	13	52839	2	KED
|	**Zn**	**66**	**108.472**	ug/L	1.184	1	22	42713	0	KED
|	**Zn**	**67**	**99.032**	ug/L	3.509	3	3	6602	3	KED
⌊	**As**	**75**	**27.259**	ug/L	0.296	1	6	5432	1	KED
	Y	**89**		ug/L			285357	352534	1	Standard
	Kr	**83**		ug/L			53	78	23	Standard
⌈>	**In-1**	**115**		ug/L			7783	7346	2	KED
|	**Cd**	**111**	**24.525**	ug/L	0.598	2	3	5633	0	KED
⌊	**Cd**	**114**	**24.686**	ug/L	0.837	3	5	13786	1	KED
⌈>	**In**	**115**		ug/L			420460	388260	1	Standard
⌊	**Ag**	**107**	**24.730**	ug/L	0.294	1	62	323895	0	Standard
⌈>	**Tb**	**159**		ug/L			655044	639770	1	Standard
⌊	**Pb**	**208**	**34.257**	ug/L	0.350	1	75	1474423	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:12:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36839	1	Standard
	Cl	**37**		ug/L			4373298	4095249	4	Standard
⌈>	**Sc**	**45**		ug/L			544532	530483	1	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.027	407	15553	15023	2	Standard
⌊	**Cr**	**53**	**-0.049**	ug/L	0.007	14	269	153	11	Standard
⌈>	**Ge**	**72**		ug/L			26846	26635	0	KED
|	**Cu**	**63**	**0.001**	ug/L	0.003	577	27	29	29	KED
|	**Cu**	**65**	**0.003**	ug/L	0.007	192	13	19	51	KED
|	**Zn**	**66**	**0.011**	ug/L	0.013	111	22	26	18	KED
|	**Zn**	**67**	**0.038**	ug/L	0.043	114	3	6	45	KED
⌊	**As**	**75**	**0.006**	ug/L	0.003	58	6	7	9	KED
	Y	**89**		ug/L			285357	270822	1	Standard
	Kr	**83**		ug/L			53	52	20	Standard
⌈>	**In-1**	**115**		ug/L			7783	7660	2	KED
|	**Cd**	**111**	**0.000**	ug/L	0.006	4051	3	3	41	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.010	8951	5	5	104	KED
⌈>	**In**	**115**		ug/L			420460	408643	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	45	62	89	13	Standard
⌈>	**Tb**	**159**		ug/L			655044	653541	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	24	75	186	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:16:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37304	1	Standard
	Cl	**37**		ug/L			4373298	4355176	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	514960	1	Standard
|	**Cr**	**52**	**49.230**	ug/L	0.760	1	15553	923596	0	Standard
⌊	**Cr**	**53**	**48.806**	ug/L	0.881	1	269	106065	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27456	2	KED
|	**Cu**	**63**	**49.496**	ug/L	1.074	2	27	153765	1	KED
|	**Cu**	**65**	**49.781**	ug/L	0.719	1	13	77339	0	KED
|	**Zn**	**66**	**50.474**	ug/L	2.107	4	22	21133	2	KED
|	**Zn**	**67**	**50.097**	ug/L	0.545	1	3	3553	2	KED
⌊	**As**	**75**	**49.587**	ug/L	1.253	2	6	10498	0	KED
	Y	**89**		ug/L			285357	271859	1	Standard
	Kr	**83**		ug/L			53	67	23	Standard
⌈>	**In-1**	**115**		ug/L			7783	7770	1	KED
|	**Cd**	**111**	**49.405**	ug/L	1.261	2	3	12004	2	KED
⌊	**Cd**	**114**	**48.909**	ug/L	0.552	1	5	28897	0	KED
⌈>	**In**	**115**		ug/L			420460	400172	0	Standard
⌊	**Ag**	**107**	**49.600**	ug/L	2.125	4	62	669463	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	653597	1	Standard
⌊	**Pb**	**208**	**49.392**	ug/L	0.668	1	75	2171614	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:23:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37227	2	Standard
	Cl	**37**		ug/L			4373298	4064930	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	517403	1	Standard
|	**Cr**	**52**	**-0.013**	ug/L	0.012	91	15553	14542	0	Standard
⌊	**Cr**	**53**	**-0.040**	ug/L	0.006	15	269	170	7	Standard
⌈>	**Ge**	**72**		ug/L			26846	26453	1	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.003	224	27	24	31	KED
|	**Cu**	**65**	**0.001**	ug/L	0.004	843	13	14	45	KED
|	**Zn**	**66**	**-0.018**	ug/L	0.005	26	22	14	15	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.031	352	3	3	69	KED
⌊	**As**	**75**	**0.011**	ug/L	0.014	125	6	9	32	KED
	Y	**89**		ug/L			285357	268155	3	Standard
	Kr	**83**		ug/L			53	53	8	Standard
⌈>	**In-1**	**115**		ug/L			7783	7549	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.007	394	3	3	43	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	254	5	4	66	KED
⌈>	**In**	**115**		ug/L			420460	405009	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	44	62	97	16	Standard
⌈>	**Tb**	**159**		ug/L			655044	648893	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	7	75	132	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-03
Sample Dil Factor: 50
DEL
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:28:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52486	3	Standard
	Cl	**37**		ug/L			4373298	4185966	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	595746	1	Standard
|	**Cr**	**52**	**6.949**	ug/L	0.202	2	15553	165404	1	Standard
⌊	**Cr**	**53**	**6.894**	ug/L	0.063	0	269	17585	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	26789	0	KED
|	**Cu**	**63**	**16.441**	ug/L	0.185	1	27	49865	1	KED
|	**Cu**	**65**	**16.110**	ug/L	0.467	2	13	24435	3	KED
|	**Zn**	**66**	**34.697**	ug/L	0.753	2	22	14188	1	KED
|	**Zn**	**67**	**34.001**	ug/L	0.357	1	3	2354	1	KED
⌊	**As**	**75**	**3.372**	ug/L	0.023	0	6	703	1	KED
	Y	**89**		ug/L			285357	395348	2	Standard
	Kr	**83**		ug/L			53	105	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7484	0	KED
|	**Cd**	**111**	**0.159**	ug/L	0.019	12	3	40	11	KED
⌊	**Cd**	**114**	**0.158**	ug/L	0.020	12	5	95	12	KED
⌈>	**In**	**115**		ug/L			420460	408149	2	Standard
⌊	**Ag**	**107**	**0.155**	ug/L	0.006	4	62	2197	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	664935	1	Standard
⌊	**Pb**	**208**	**12.429**	ug/L	0.419	3	75	555848	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-04
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:32:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52091	0	Standard
	Cl	**37**		ug/L			4373298	4125301	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	579430	2	Standard
|	**Cr**	**52**	**6.637**	ug/L	0.184	2	15553	154367	0	Standard
⌊	**Cr**	**53**	**6.679**	ug/L	0.086	1	269	16579	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	27136	1	KED
|	**Cu**	**63**	**14.598**	ug/L	0.320	2	27	44839	0	KED
|	**Cu**	**65**	**14.559**	ug/L	0.492	3	13	22360	1	KED
|	**Zn**	**66**	**29.722**	ug/L	0.436	1	22	12315	2	KED
|	**Zn**	**67**	**29.111**	ug/L	0.311	1	3	2042	2	KED
⌊	**As**	**75**	**2.767**	ug/L	0.039	1	6	585	1	KED
	Y	**89**		ug/L			285357	387793	2	Standard
	Kr	**83**		ug/L			53	89	3	Standard
⌈>	**In-1**	**115**		ug/L			7783	7550	2	KED
|	**Cd**	**111**	**0.119**	ug/L	0.051	42	3	31	37	KED
⌊	**Cd**	**114**	**0.116**	ug/L	0.015	13	5	72	14	KED
⌈>	**In**	**115**		ug/L			420460	403752	1	Standard
⌊	**Ag**	**107**	**0.119**	ug/L	0.005	4	62	1681	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	657238	1	Standard
⌊	**Pb**	**208**	**11.588**	ug/L	0.119	1	75	512408	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-05
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:36:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54529	3	Standard
	Cl	**37**		ug/L			4373298	4125689	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	619919	2	Standard
|	**Cr**	**52**	**4.836**	ug/L	0.088	1	15553	125184	1	Standard
⌊	**Cr**	**53**	**4.812**	ug/L	0.141	2	269	12864	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	27151	0	KED
|	**Cu**	**63**	**11.973**	ug/L	0.117	0	27	36813	1	KED
|	**Cu**	**65**	**11.559**	ug/L	0.283	2	13	17771	2	KED
|	**Zn**	**66**	**23.455**	ug/L	0.500	2	22	9728	1	KED
|	**Zn**	**67**	**22.482**	ug/L	0.560	2	3	1579	2	KED
⌊	**As**	**75**	**2.667**	ug/L	0.072	2	6	565	2	KED
	Y	**89**		ug/L			285357	424982	1	Standard
	Kr	**83**		ug/L			53	103	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7880	2	KED
|	**Cd**	**111**	**0.095**	ug/L	0.042	43	3	26	37	KED
⌊	**Cd**	**114**	**0.106**	ug/L	0.020	18	5	69	15	KED
⌈>	**In**	**115**		ug/L			420460	402296	2	Standard
⌊	**Ag**	**107**	**0.081**	ug/L	0.001	1	62	1158	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	667523	2	Standard
⌊	**Pb**	**208**	**6.754**	ug/L	0.112	1	75	303322	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-06
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:41:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56804	1	Standard
	Cl	**37**		ug/L			4373298	4059046	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	588587	1	Standard
|	**Cr**	**52**	**6.401**	ug/L	0.122	1	15553	151889	0	Standard
⌊	**Cr**	**53**	**6.278**	ug/L	0.090	1	269	15851	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26556	1	KED
|	**Cu**	**63**	**11.701**	ug/L	0.125	1	27	35186	1	KED
|	**Cu**	**65**	**11.603**	ug/L	0.232	2	13	17451	3	KED
|	**Zn**	**66**	**25.377**	ug/L	0.432	1	22	10295	2	KED
|	**Zn**	**67**	**24.536**	ug/L	1.090	4	3	1684	3	KED
⌊	**As**	**75**	**2.348**	ug/L	0.044	1	6	487	1	KED
	Y	**89**		ug/L			285357	387027	1	Standard
	Kr	**83**		ug/L			53	100	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	6923	3	KED
|	**Cd**	**111**	**0.102**	ug/L	0.033	32	3	25	26	KED
⌊	**Cd**	**114**	**0.102**	ug/L	0.015	15	5	58	14	KED
⌈>	**In**	**115**		ug/L			420460	409233	1	Standard
⌊	**Ag**	**107**	**0.074**	ug/L	0.003	3	62	1077	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	664330	1	Standard
⌊	**Pb**	**208**	**6.613**	ug/L	0.085	1	75	295621	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-07
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:45:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	60680	1	Standard
	Cl	**37**		ug/L			4373298	4035321	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	579426	4	Standard
|	**Cr**	**52**	**6.015**	ug/L	0.158	2	15553	141424	3	Standard
⌊	**Cr**	**53**	**5.985**	ug/L	0.047	0	269	14885	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	27245	0	KED
|	**Cu**	**63**	**11.035**	ug/L	0.049	0	27	34044	0	KED
|	**Cu**	**65**	**10.972**	ug/L	0.277	2	13	16927	1	KED
|	**Zn**	**66**	**23.826**	ug/L	0.801	3	22	9915	2	KED
|	**Zn**	**67**	**23.410**	ug/L	0.640	2	3	1649	2	KED
⌊	**As**	**75**	**2.593**	ug/L	0.137	5	6	551	4	KED
	Y	**89**		ug/L			285357	379005	2	Standard
	Kr	**83**		ug/L			53	79	22	Standard
⌈>	**In-1**	**115**		ug/L			7783	7739	3	KED
|	**Cd**	**111**	**0.071**	ug/L	0.002	3	3	20	2	KED
⌊	**Cd**	**114**	**0.099**	ug/L	0.034	34	5	63	29	KED
⌈>	**In**	**115**		ug/L			420460	398872	2	Standard
⌊	**Ag**	**107**	**0.075**	ug/L	0.004	4	62	1064	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	654145	4	Standard
⌊	**Pb**	**208**	**6.833**	ug/L	0.156	2	75	300594	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-08
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:49:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56095	1	Standard
	Cl	**37**		ug/L			4373298	4039382	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	593524	3	Standard
|	**Cr**	**52**	**6.557**	ug/L	0.201	3	15553	156402	2	Standard
⌊	**Cr**	**53**	**6.721**	ug/L	0.202	3	269	17077	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26847	2	KED
|	**Cu**	**63**	**12.300**	ug/L	0.048	0	27	37391	2	KED
|	**Cu**	**65**	**12.453**	ug/L	0.258	2	13	18928	1	KED
|	**Zn**	**66**	**25.064**	ug/L	0.397	1	22	10276	1	KED
|	**Zn**	**67**	**23.814**	ug/L	0.927	3	3	1653	3	KED
⌊	**As**	**75**	**2.853**	ug/L	0.083	2	6	596	2	KED
	Y	**89**		ug/L			285357	390968	2	Standard
	Kr	**83**		ug/L			53	91	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7682	3	KED
|	**Cd**	**111**	**0.083**	ug/L	0.010	11	3	23	10	KED
⌊	**Cd**	**114**	**0.097**	ug/L	0.002	2	5	62	4	KED
⌈>	**In**	**115**		ug/L			420460	407703	3	Standard
⌊	**Ag**	**107**	**0.059**	ug/L	0.005	8	62	874	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	654443	3	Standard
⌊	**Pb**	**208**	**6.672**	ug/L	0.168	2	75	293704	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-01
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:54:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54389	1	Standard
	Cl	**37**		ug/L			4373298	4146586	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	584545	0	Standard
|	**Cr**	**52**	**8.267**	ug/L	0.250	3	15553	189993	3	Standard
⌊	**Cr**	**53**	**8.266**	ug/L	0.050	0	269	20633	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26591	1	KED
|	**Cu**	**63**	**14.592**	ug/L	0.282	1	27	43935	2	KED
|	**Cu**	**65**	**14.409**	ug/L	0.106	0	13	21693	0	KED
|	**Zn**	**66**	**30.495**	ug/L	0.469	1	22	12380	1	KED
|	**Zn**	**67**	**30.572**	ug/L	0.175	0	3	2101	1	KED
⌊	**As**	**75**	**3.567**	ug/L	0.149	4	6	737	3	KED
	Y	**89**		ug/L			285357	382481	1	Standard
	Kr	**83**		ug/L			53	114	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7481	2	KED
|	**Cd**	**111**	**0.242**	ug/L	0.048	19	3	60	19	KED
⌊	**Cd**	**114**	**0.235**	ug/L	0.044	18	5	139	16	KED
⌈>	**In**	**115**		ug/L			420460	406173	1	Standard
⌊	**Ag**	**107**	**0.238**	ug/L	0.010	4	62	3321	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	653525	2	Standard
⌊	**Pb**	**208**	**11.402**	ug/L	0.210	1	75	501224	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-02
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:58:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56879	3	Standard
	Cl	**37**		ug/L			4373298	4074313	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	602582	1	Standard
|	**Cr**	**52**	**7.837**	ug/L	0.180	2	15553	186517	1	Standard
⌊	**Cr**	**53**	**7.826**	ug/L	0.153	1	269	20149	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	27005	2	KED
|	**Cu**	**63**	**15.025**	ug/L	0.291	1	27	45927	0	KED
|	**Cu**	**65**	**14.810**	ug/L	0.190	1	13	22642	1	KED
|	**Zn**	**66**	**29.168**	ug/L	0.059	0	22	12028	2	KED
|	**Zn**	**67**	**27.448**	ug/L	1.384	5	3	1915	3	KED
⌊	**As**	**75**	**3.653**	ug/L	0.051	1	6	767	3	KED
	Y	**89**		ug/L			285357	437650	1	Standard
	Kr	**83**		ug/L			53	102	3	Standard
⌈>	**In-1**	**115**		ug/L			7783	7893	2	KED
|	**Cd**	**111**	**0.237**	ug/L	0.035	14	3	62	15	KED
⌊	**Cd**	**114**	**0.223**	ug/L	0.020	8	5	139	6	KED
⌈>	**In**	**115**		ug/L			420460	410369	2	Standard
⌊	**Ag**	**107**	**0.142**	ug/L	0.004	2	62	2027	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	666554	0	Standard
⌊	**Pb**	**208**	**6.842**	ug/L	0.107	1	75	306881	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-03
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:02:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56229	0	Standard
	Cl	**37**		ug/L			4373298	4006597	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	580872	3	Standard
|	**Cr**	**52**	**7.519**	ug/L	0.129	1	15553	173192	3	Standard
⌊	**Cr**	**53**	**7.432**	ug/L	0.183	2	269	18457	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27450	1	KED
|	**Cu**	**63**	**16.587**	ug/L	0.225	1	27	51545	1	KED
|	**Cu**	**65**	**16.180**	ug/L	0.321	1	13	25142	1	KED
|	**Zn**	**66**	**33.754**	ug/L	0.623	1	22	14143	1	KED
|	**Zn**	**67**	**33.382**	ug/L	0.296	0	3	2368	0	KED
⌊	**As**	**75**	**3.150**	ug/L	0.107	3	6	673	3	KED
	Y	**89**		ug/L			285357	380605	1	Standard
	Kr	**83**		ug/L			53	103	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7655	1	KED
|	**Cd**	**111**	**0.155**	ug/L	0.015	9	3	40	9	KED
⌊	**Cd**	**114**	**0.141**	ug/L	0.006	4	5	87	4	KED
⌈>	**In**	**115**		ug/L			420460	404767	0	Standard
⌊	**Ag**	**107**	**0.130**	ug/L	0.003	2	62	1841	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	656289	2	Standard
⌊	**Pb**	**208**	**14.388**	ug/L	0.242	1	75	635403	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:07:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36339	0	Standard
	Cl	**37**		ug/L			4373298	3831932	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	495567	3	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.014	198	15553	14021	2	Standard
⌊	**Cr**	**53**	**-0.045**	ug/L	0.008	17	269	150	8	Standard
⌈>	**Ge**	**72**		ug/L			26846	25394	4	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	59	27	36	13	KED
|	**Cu**	**65**	**0.009**	ug/L	0.003	29	13	26	12	KED
|	**Zn**	**66**	**0.006**	ug/L	0.027	475	22	23	48	KED
|	**Zn**	**67**	**0.068**	ug/L	0.113	167	3	8	96	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	112	6	5	19	KED
	Y	**89**		ug/L			285357	265361	3	Standard
	Kr	**83**		ug/L			53	69	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7707	1	KED
|	**Cd**	**111**	**0.000**	ug/L	0.002	1559	3	3	15	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	95	5	3	48	KED
⌈>	**In**	**115**		ug/L			420460	390605	3	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.002	1056	62	56	36	Standard
⌈>	**Tb**	**159**		ug/L			655044	635599	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	3	75	134	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:11:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	35526	3	Standard
	Cl	**37**		ug/L			4373298	4224985	5	Standard
⌈>	**Sc**	**45**		ug/L			544532	479870	9	Standard
|	**Cr**	**52**	**50.916**	ug/L	2.183	4	15553	887365	5	Standard
⌊	**Cr**	**53**	**50.089**	ug/L	1.999	3	269	101173	6	Standard
⌈>	**Ge**	**72**		ug/L			26846	26435	2	KED
|	**Cu**	**63**	**50.109**	ug/L	0.178	0	27	149908	2	KED
|	**Cu**	**65**	**49.720**	ug/L	0.803	1	13	74410	4	KED
|	**Zn**	**66**	**52.399**	ug/L	0.353	0	22	21137	3	KED
|	**Zn**	**67**	**51.286**	ug/L	0.590	1	3	3502	3	KED
⌊	**As**	**75**	**50.454**	ug/L	0.887	1	6	10287	2	KED
	Y	**89**		ug/L			285357	248763	11	Standard
	Kr	**83**		ug/L			53	62	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	7471	3	KED
|	**Cd**	**111**	**50.358**	ug/L	1.400	2	3	11758	1	KED
⌊	**Cd**	**114**	**51.071**	ug/L	1.096	2	5	29000	1	KED
⌈>	**In**	**115**		ug/L			420460	379388	10	Standard
⌊	**Ag**	**107**	**50.865**	ug/L	2.691	5	62	648784	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	608103	11	Standard
⌊	**Pb**	**208**	**52.527**	ug/L	4.446	8	75	2135289	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:18:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36729	1	Standard
	Cl	**37**		ug/L			4373298	3919579	3	Standard
⎡>	**Sc**	**45**		ug/L			544532	509496	1	Standard
⎢	**Cr**	**52**	**0.002**	ug/L	0.030	1597	15553	14581	2	Standard
⎣	**Cr**	**53**	**-0.046**	ug/L	0.003	6	269	153	4	Standard
⎡>	**Ge**	**72**		ug/L			26846	26377	1	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.002	48	27	36	10	KED
⎢	**Cu**	**65**	**0.005**	ug/L	0.002	30	13	21	10	KED
⎢	**Zn**	**66**	**-0.009**	ug/L	0.009	108	22	18	21	KED
⎢	**Zn**	**67**	**0.038**	ug/L	0.015	40	3	6	17	KED
⎣	**As**	**75**	**0.007**	ug/L	0.006	84	6	8	15	KED
	Y	**89**		ug/L			285357	255912	1	Standard
	Kr	**83**		ug/L			53	54	10	Standard
⎡>	**In-1**	**115**		ug/L			7783	7324	2	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.005	96	3	4	24	KED
⎣	**Cd**	**114**	**-0.005**	ug/L	0.008	166	5	2	176	KED
⎡>	**In**	**115**		ug/L			420460	402465	0	Standard
⎣	**Ag**	**107**	**0.002**	ug/L	0.000	19	62	80	4	Standard
⎡>	**Tb**	**159**		ug/L			655044	630364	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	12	75	128	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:22:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	49652	0	Standard
	Cl	**37**		ug/L			4373298	4047237	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	531657	0	Standard
|	**Cr**	**52**	**0.045**	ug/L	0.024	54	15553	16043	3	Standard
⌊	**Cr**	**53**	**-0.035**	ug/L	0.003	8	269	184	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	26760	2	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	51	27	37	12	KED
|	**Cu**	**65**	**0.004**	ug/L	0.004	86	13	20	28	KED
|	**Zn**	**66**	**0.076**	ug/L	0.046	60	22	53	37	KED
|	**Zn**	**67**	**0.076**	ug/L	0.110	144	3	8	81	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.011	236	6	5	40	KED
	Y	**89**		ug/L			285357	283575	2	Standard
	Kr	**83**		ug/L			53	55	13	Standard
⌈>	**In-1**	**115**		ug/L			7783	7670	3	KED
|	**Cd**	**111**	**0.010**	ug/L	0.015	153	3	5	60	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	98	5	3	50	KED
⌈>	**In**	**115**		ug/L			420460	407471	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	38	62	82	11	Standard
⌈>	**Tb**	**159**		ug/L			655044	655656	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	10	75	311	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:27:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	43263	2	Standard
	Cl	**37**		ug/L			4373298	3942299	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	512874	2	Standard
|	**Cr**	**52**	**25.967**	ug/L	0.150	0	15553	492182	2	Standard
⌊	**Cr**	**53**	**25.451**	ug/L	0.393	1	269	55211	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26880	1	KED
|	**Cu**	**63**	**27.556**	ug/L	0.565	2	27	83818	0	KED
|	**Cu**	**65**	**27.604**	ug/L	0.686	2	13	41992	1	KED
|	**Zn**	**66**	**83.947**	ug/L	1.221	1	22	34422	3	KED
|	**Zn**	**67**	**78.106**	ug/L	0.884	1	3	5421	1	KED
⌊	**As**	**75**	**25.722**	ug/L	0.300	1	6	5336	2	KED
	Y	**89**		ug/L			285357	267401	3	Standard
	Kr	**83**		ug/L			53	59	6	Standard
⌈>	**In-1**	**115**		ug/L			7783	7470	4	KED
|	**Cd**	**111**	**26.312**	ug/L	0.414	1	3	6145	3	KED
⌊	**Cd**	**114**	**26.798**	ug/L	0.740	2	5	15212	2	KED
⌈>	**In**	**115**		ug/L			420460	398732	4	Standard
⌊	**Ag**	**107**	**26.234**	ug/L	0.772	2	62	352580	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	628792	2	Standard
⌊	**Pb**	**208**	**27.408**	ug/L	0.137	0	75	1159486	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-04
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:31:38

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53466	1	Standard
	Cl	**37**		ug/L			4373298	4025362	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	585019	3	Standard
|	**Cr**	**52**	**6.321**	ug/L	0.038	0	15553	149297	3	Standard
⌊	**Cr**	**53**	**6.320**	ug/L	0.082	1	269	15858	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	26891	0	KED
|	**Cu**	**63**	**14.874**	ug/L	0.275	1	27	45285	2	KED
|	**Cu**	**65**	**14.779**	ug/L	0.577	3	13	22500	3	KED
|	**Zn**	**66**	**31.637**	ug/L	0.079	0	22	12989	0	KED
|	**Zn**	**67**	**30.864**	ug/L	0.846	2	3	2145	2	KED
⌊	**As**	**75**	**3.145**	ug/L	0.038	1	6	658	1	KED
	Y	**89**		ug/L			285357	379820	4	Standard
	Kr	**83**		ug/L			53	95	2	Standard
⌈>	**In-1**	**115**		ug/L			7783	7578	0	KED
|	**Cd**	**111**	**0.137**	ug/L	0.011	7	3	35	6	KED
⌊	**Cd**	**114**	**0.154**	ug/L	0.004	2	5	94	2	KED
⌈>	**In**	**115**		ug/L			420460	400979	4	Standard
⌊	**Ag**	**107**	**0.114**	ug/L	0.006	5	62	1599	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	650205	1	Standard
⌊	**Pb**	**208**	**13.279**	ug/L	0.197	1	75	581033	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-05
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:35:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56806	1	Standard
	Cl	**37**		ug/L			4373298	4115784	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	620696	4	Standard
|	**Cr**	**52**	**6.940**	ug/L	0.137	1	15553	172114	2	Standard
⌊	**Cr**	**53**	**6.857**	ug/L	0.194	2	269	18217	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26952	2	KED
|	**Cu**	**63**	**16.011**	ug/L	0.051	0	27	48858	3	KED
|	**Cu**	**65**	**16.017**	ug/L	0.297	1	13	24438	2	KED
|	**Zn**	**66**	**31.845**	ug/L	0.188	0	22	13103	2	KED
|	**Zn**	**67**	**30.898**	ug/L	1.174	3	3	2154	6	KED
⌊	**As**	**75**	**2.995**	ug/L	0.067	2	6	628	0	KED
	Y	**89**		ug/L			285357	399458	0	Standard
	Kr	**83**		ug/L			53	83	5	Standard
⌈>	**In-1**	**115**		ug/L			7783	7773	2	KED
|	**Cd**	**111**	**0.128**	ug/L	0.009	7	3	34	7	KED
⌊	**Cd**	**114**	**0.121**	ug/L	0.016	13	5	77	10	KED
⌈>	**In**	**115**		ug/L			420460	408767	3	Standard
⌊	**Ag**	**107**	**0.116**	ug/L	0.007	6	62	1661	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	664814	0	Standard
⌊	**Pb**	**208**	**10.509**	ug/L	0.145	1	75	470122	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-06
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:40:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	59828	1	Standard
	Cl	**37**		ug/L			4373298	4038712	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	598763	1	Standard
|	**Cr**	**52**	**7.257**	ug/L	0.101	1	15553	172897	1	Standard
⌊	**Cr**	**53**	**7.051**	ug/L	0.129	1	269	18071	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26975	2	KED
|	**Cu**	**63**	**14.796**	ug/L	0.045	0	27	45188	1	KED
|	**Cu**	**65**	**14.492**	ug/L	0.389	2	13	22130	2	KED
|	**Zn**	**66**	**26.811**	ug/L	0.380	1	22	11043	1	KED
|	**Zn**	**67**	**26.938**	ug/L	0.940	3	3	1878	3	KED
⌊	**As**	**75**	**2.868**	ug/L	0.119	4	6	603	2	KED
	Y	**89**		ug/L			285357	395776	1	Standard
	Kr	**83**		ug/L			53	109	20	Standard
⌈>	**In-1**	**115**		ug/L			7783	7439	0	KED
|	**Cd**	**111**	**0.068**	ug/L	0.015	22	3	19	18	KED
⌊	**Cd**	**114**	**0.086**	ug/L	0.010	12	5	53	10	KED
⌈>	**In**	**115**		ug/L			420460	407337	0	Standard
⌊	**Ag**	**107**	**0.092**	ug/L	0.008	8	62	1325	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	667255	1	Standard
⌊	**Pb**	**208**	**6.726**	ug/L	0.059	0	75	302000	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-07
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:44:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	59067	1	Standard
	Cl	**37**		ug/L			4373298	4029906	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	568459	1	Standard
|	**Cr**	**52**	**6.125**	ug/L	0.088	1	15553	141068	0	Standard
⌊	**Cr**	**53**	**6.104**	ug/L	0.018	0	269	14890	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26771	4	KED
|	**Cu**	**63**	**14.547**	ug/L	0.153	1	27	44080	3	KED
|	**Cu**	**65**	**14.386**	ug/L	0.199	1	13	21803	4	KED
|	**Zn**	**66**	**31.250**	ug/L	0.427	1	22	12770	3	KED
|	**Zn**	**67**	**31.464**	ug/L	0.589	1	3	2176	3	KED
⌊	**As**	**75**	**3.325**	ug/L	0.034	1	6	692	3	KED
	Y	**89**		ug/L			285357	380537	0	Standard
	Kr	**83**		ug/L			53	109	8	Standard
⌈>	**In-1**	**115**		ug/L			7783	7610	0	KED
|	**Cd**	**111**	**0.132**	ug/L	0.028	21	3	34	18	KED
⌊	**Cd**	**114**	**0.143**	ug/L	0.008	5	5	88	6	KED
⌈>	**In**	**115**		ug/L			420460	394964	1	Standard
⌊	**Ag**	**107**	**0.117**	ug/L	0.005	4	62	1623	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	643597	3	Standard
⌊	**Pb**	**208**	**10.807**	ug/L	0.265	2	75	467762	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-08
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:49:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54798	1	Standard
	Cl	**37**		ug/L			4373298	3982832	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	551445	5	Standard
|	**Cr**	**52**	**6.150**	ug/L	0.052	0	15553	137308	5	Standard
⌊	**Cr**	**53**	**6.127**	ug/L	0.076	1	269	14498	5	Standard
⌈>	**Ge**	**72**		ug/L			26846	25958	1	KED
|	**Cu**	**63**	**13.542**	ug/L	0.064	0	27	39803	0	KED
|	**Cu**	**65**	**13.341**	ug/L	0.023	0	13	19609	1	KED
|	**Zn**	**66**	**27.645**	ug/L	0.439	1	22	10959	2	KED
|	**Zn**	**67**	**26.390**	ug/L	0.521	1	3	1771	2	KED
⌊	**As**	**75**	**3.032**	ug/L	0.134	4	6	613	3	KED
	Y	**89**		ug/L			285357	369798	2	Standard
	Kr	**83**		ug/L			53	106	28	Standard
⌈>	**In-1**	**115**		ug/L			7783	6932	2	KED
|	**Cd**	**111**	**0.139**	ug/L	0.025	18	3	33	18	KED
⌊	**Cd**	**114**	**0.128**	ug/L	0.004	3	5	72	3	KED
⌈>	**In**	**115**		ug/L			420460	384182	2	Standard
⌊	**Ag**	**107**	**0.105**	ug/L	0.005	4	62	1413	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	629662	5	Standard
⌊	**Pb**	**208**	**10.782**	ug/L	0.311	2	75	456311	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-09
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:53:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	51162	3	Standard
	Cl	**37**		ug/L			4373298	3817844	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	533813	3	Standard
|	**Cr**	**52**	**6.480**	ug/L	0.148	2	15553	139238	1	Standard
⌊	**Cr**	**53**	**6.428**	ug/L	0.158	2	269	14705	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25497	0	KED
|	**Cu**	**63**	**10.900**	ug/L	0.173	1	27	31475	2	KED
|	**Cu**	**65**	**10.705**	ug/L	0.126	1	13	15458	1	KED
|	**Zn**	**66**	**25.172**	ug/L	0.197	0	22	9803	0	KED
|	**Zn**	**67**	**24.199**	ug/L	1.199	4	3	1595	4	KED
⌊	**As**	**75**	**2.537**	ug/L	0.084	3	6	505	3	KED
	Y	**89**		ug/L			285357	349814	1	Standard
	Kr	**83**		ug/L			53	84	18	Standard
⌈>	**In-1**	**115**		ug/L			7783	7504	3	KED
|	**Cd**	**111**	**0.088**	ug/L	0.031	35	3	23	27	KED
⌊	**Cd**	**114**	**0.086**	ug/L	0.012	13	5	54	13	KED
⌈>	**In**	**115**		ug/L			420460	380063	2	Standard
⌊	**Ag**	**107**	**0.058**	ug/L	0.003	5	62	802	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	617271	3	Standard
⌊	**Pb**	**208**	**6.085**	ug/L	0.207	3	75	252609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0109-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:58:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53472	2	Standard
	Cl	**37**		ug/L			4373298	4251725	0	Standard
⌈>	**Sc**	**45**		ug/L			544532	525307	1	Standard
|	**Cr**	**52**	**0.664**	ug/L	0.007	1	15553	27504	2	Standard
⌊	**Cr**	**53**	**0.670**	ug/L	0.002	0	269	1742	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26076	1	KED
|	**Cu**	**63**	**0.847**	ug/L	0.005	0	27	2526	1	KED
|	**Cu**	**65**	**0.851**	ug/L	0.041	4	13	1269	6	KED
|	**Zn**	**66**	**90.466**	ug/L	1.574	1	22	35984	3	KED
|	**Zn**	**67**	**79.556**	ug/L	2.594	3	3	5355	2	KED
⌊	**As**	**75**	**0.179**	ug/L	0.022	12	6	42	9	KED
	Y	**89**		ug/L			285357	277517	2	Standard
	Kr	**83**		ug/L			53	52	24	Standard
⌈>	**In-1**	**115**		ug/L			7783	7716	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.006	42	3	6	20	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	152	5	8	56	KED
⌈>	**In**	**115**		ug/L			420460	408183	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	65	62	91	24	Standard
⌈>	**Tb**	**159**		ug/L			655044	651123	2	Standard
⌊	**Pb**	**208**	**0.209**	ug/L	0.007	3	75	9224	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:02:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36360	2	Standard
	Cl	**37**		ug/L			4373298	3997174	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	498419	2	Standard
|	**Cr**	**52**	**0.025**	ug/L	0.016	64	15553	14681	3	Standard
⌊	**Cr**	**53**	**-0.044**	ug/L	0.009	19	269	153	9	Standard
⌈>	**Ge**	**72**		ug/L			26846	26912	2	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	130	27	34	22	KED
|	**Cu**	**65**	**0.003**	ug/L	0.002	68	13	19	20	KED
|	**Zn**	**66**	**0.035**	ug/L	0.023	64	22	36	26	KED
|	**Zn**	**67**	**0.018**	ug/L	0.016	89	3	5	21	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	429	6	7	17	KED
	Y	**89**		ug/L			285357	261002	5	Standard
	Kr	**83**		ug/L			53	50	27	Standard
⌈>	**In-1**	**115**		ug/L			7783	7450	2	KED
|	**Cd**	**111**	**0.002**	ug/L	0.011	568	3	3	66	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	643	5	5	44	KED
⌈>	**In**	**115**		ug/L			420460	396586	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	174	62	50	28	Standard
⌈>	**Tb**	**159**		ug/L			655044	626483	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	15	75	102	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:06:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36672	0	Standard
	Cl	**37**		ug/L			4373298	4316291	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	511301	2	Standard
|	**Cr**	**52**	**49.012**	ug/L	0.382	0	15553	913204	2	Standard
⌊	**Cr**	**53**	**48.314**	ug/L	0.583	1	269	104271	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26405	2	KED
|	**Cu**	**63**	**50.561**	ug/L	0.825	1	27	151067	1	KED
|	**Cu**	**65**	**49.197**	ug/L	0.297	0	13	73529	2	KED
|	**Zn**	**66**	**51.137**	ug/L	0.663	1	22	20599	0	KED
|	**Zn**	**67**	**50.578**	ug/L	2.748	5	3	3449	5	KED
⌊	**As**	**75**	**50.144**	ug/L	0.397	0	6	10213	2	KED
	Y	**89**		ug/L			285357	272897	1	Standard
	Kr	**83**		ug/L			53	72	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	7333	3	KED
|	**Cd**	**111**	**49.644**	ug/L	0.938	1	3	11380	2	KED
⌊	**Cd**	**114**	**50.823**	ug/L	1.091	2	5	28329	2	KED
⌈>	**In**	**115**		ug/L			420460	393449	1	Standard
⌊	**Ag**	**107**	**50.091**	ug/L	1.157	2	62	664666	1	Standard
⌈>	**Tb**	**159**		ug/L			655044	641370	1	Standard
⌊	**Pb**	**208**	**50.311**	ug/L	0.479	0	75	2170796	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:13:50
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36826	3	Standard
	Cl	**37**		ug/L			4373298	3987550	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	504336	2	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.010	133	15553	14271	3	Standard
⌊	**Cr**	**53**	**-0.046**	ug/L	0.008	16	269	152	9	Standard
⌈>	**Ge**	**72**		ug/L			26846	27248	1	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	94	27	33	14	KED
|	**Cu**	**65**	**0.002**	ug/L	0.004	263	13	16	37	KED
|	**Zn**	**66**	**0.004**	ug/L	0.021	575	22	24	37	KED
|	**Zn**	**67**	**0.017**	ug/L	0.041	238	3	5	57	KED
⌊	**As**	**75**	**0.007**	ug/L	0.007	100	6	8	18	KED
	Y	**89**		ug/L			285357	264099	3	Standard
	Kr	**83**		ug/L			53	50	11	Standard
⌈>	**In-1**	**115**		ug/L			7783	7648	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.000	3	3	1		KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.004	71	5	2	94	KED
⌈>	**In**	**115**		ug/L			420460	398241	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.002	111	62	80	28	Standard
⌈>	**Tb**	**159**		ug/L			655044	630972	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	75	133	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0617-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, January 13, 2023 00:18:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	47064	3	Standard
	Cl	**37**		ug/L			4373298	4534693	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	549368	1	Standard
|	**Cr**	**52**	**0.237**	ug/L	0.016	6	15553	20368	3	Standard
⌊	**Cr**	**53**	**0.833**	ug/L	0.019	2	269	2197	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25886	1	KED
|	**Cu**	**63**	**1.130**	ug/L	0.037	3	27	3337	3	KED
|	**Cu**	**65**	**1.144**	ug/L	0.041	3	13	1689	4	KED
|	**Zn**	**66**	**7.873**	ug/L	0.158	2	22	3127	1	KED
|	**Zn**	**67**	**7.977**	ug/L	0.539	6	3	536	6	KED
⌊	**As**	**75**	**0.368**	ug/L	0.024	6	6	80	6	KED
	Y	**89**		ug/L			285357	274074	0	Standard
	Kr	**83**		ug/L			53	71	11	Standard
⌈>	**In-1**	**115**		ug/L			7783	7297	1	KED
|	**Cd**	**111**	**0.068**	ug/L	0.015	22	3	18	19	KED
⌊	**Cd**	**114**	**0.067**	ug/L	0.008	11	5	42	10	KED
⌈>	**In**	**115**		ug/L			420460	392136	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	46	62	94	18	Standard
⌈>	**Tb**	**159**		ug/L			655044	634971	3	Standard
⌊	**Pb**	**208**	**0.109**	ug/L	0.004	3	75	4746	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:22:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	72977	0	Standard
	Cl	**37**		ug/L			4373298	4143195	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	658125	3	Standard
|	**Cr**	**52**	**14.868**	ug/L	0.120	0	15553	369611	2	Standard
⌊	**Cr**	**53**	**14.847**	ug/L	0.145	0	269	41460	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26175	1	KED
|	**Cu**	**63**	**39.536**	ug/L	0.772	1	27	117105	1	KED
|	**Cu**	**65**	**39.264**	ug/L	0.608	1	13	58163	0	KED
|	**Zn**	**66**	**80.232**	ug/L	1.222	1	22	32028	1	KED
|	**Zn**	**67**	**75.426**	ug/L	2.439	3	3	5098	2	KED
⌊	**As**	**75**	**7.887**	ug/L	0.201	2	6	1597	1	KED
	Y	**89**		ug/L			285357	530306	3	Standard
	Kr	**83**		ug/L			53	178	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7541	3	KED
|	**Cd**	**111**	**0.356**	ug/L	0.006	1	3	87	3	KED
⌊	**Cd**	**114**	**0.358**	ug/L	0.018	4	5	210	1	KED
⌈>	**In**	**115**		ug/L			420460	385122	2	Standard
⌊	**Ag**	**107**	**0.369**	ug/L	0.001	0	62	4846	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	642915	0	Standard
⌊	**Pb**	**208**	**30.676**	ug/L	0.698	2	75	1326826	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:26:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	71590	4	Standard
	Cl	37		ug/L			4373298	4069742	2	Standard
⌈>	Sc	45		ug/L			544532	670780	2	Standard
|	Cr	52	15.483	ug/L	0.553	3	15553	391494	3	Standard
⌊	Cr	53	15.301	ug/L	0.300	1	269	43543	2	Standard
⌈>	Ge	72		ug/L			26846	26063	1	KED
|	Cu	63	34.663	ug/L	0.509	1	27	102253	2	KED
|	Cu	65	34.424	ug/L	0.643	1	13	50775	1	KED
|	Zn	66	71.864	ug/L	1.503	2	22	28564	1	KED
|	Zn	67	69.749	ug/L	1.463	2	3	4694	1	KED
⌊	As	75	6.920	ug/L	0.216	3	6	1396	3	KED
	Y	89		ug/L			285357	560482	2	Standard
	Kr	83		ug/L			53	203	15	Standard
⌈>	In-1	115		ug/L			7783	7444	2	KED
|	Cd	111	0.233	ug/L	0.027	11	3	57	10	KED
⌊	Cd	114	0.247	ug/L	0.022	8	5	145	8	KED
⌈>	In	115		ug/L			420460	389388	1	Standard
⌊	Ag	107	0.206	ug/L	0.003	1	62	2765	2	Standard
⌈>	Tb	159		ug/L			655044	650082	2	Standard
⌊	Pb	208	18.511	ug/L	0.362	1	75	809383	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:31:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	66749	1	Standard
	Cl	37		ug/L			4373298	4230078	1	Standard
>	Sc	45		ug/L			544532	673159	1	Standard
	Cr	52	17.045	ug/L	0.208	1	15553	430687	2	Standard
	Cr	53	17.143	ug/L	0.269	1	269	48915	1	Standard
>	Ge	72		ug/L			26846	25002	1	KED
	Cu	63	49.632	ug/L	0.630	1	27	140441	1	KED
	Cu	65	50.140	ug/L	1.284	2	13	70946	2	KED
	Zn	66	92.130	ug/L	0.417	0	22	35130	1	KED
	Zn	67	90.547	ug/L	1.009	1	3	5846	2	KED
	As	75	8.720	ug/L	0.228	2	6	1686	2	KED
	Y	89		ug/L			285357	553448	1	Standard
	Kr	83		ug/L			53	200	6	Standard
>	In-1	115		ug/L			7783	6861	1	KED
	Cd	111	0.443	ug/L	0.016	3	3	98	4	KED
	Cd	114	0.386	ug/L	0.022	5	5	206	6	KED
>	In	115		ug/L			420460	395930	2	Standard
	Ag	107	0.382	ug/L	0.012	3	62	5162	3	Standard
>	Tb	159		ug/L			655044	649479	2	Standard
	Pb	208	37.301	ug/L	0.941	2	75	1629254	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:35:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	72845	1	Standard
	Cl	37		ug/L			4373298	4164828	2	Standard
>	Sc	45		ug/L			544532	657705	1	Standard
	Cr	52	15.822	ug/L	0.092	0	15553	391904	0	Standard
	Cr	53	15.461	ug/L	0.038	0	269	43139	1	Standard
>	Ge	72		ug/L			26846	25421	1	KED
	Cu	63	37.476	ug/L	0.659	1	27	107808	0	KED
	Cu	65	37.760	ug/L	0.522	1	13	54324	0	KED
	Zn	66	70.565	ug/L	2.072	2	22	27357	2	KED
	Zn	67	68.488	ug/L	3.076	4	3	4494	2	KED
	As	75	7.334	ug/L	0.336	4	6	1443	3	KED
	Y	89		ug/L			285357	545124	1	Standard
	Kr	83		ug/L			53	198	4	Standard
>	In-1	115		ug/L			7783	6778	2	KED
	Cd	111	0.216	ug/L	0.050	23	3	48	18	KED
	Cd	114	0.250	ug/L	0.020	8	5	133	5	KED
>	In	115		ug/L			420460	383859	0	Standard
	Ag	107	0.173	ug/L	0.004	2	62	2292	3	Standard
>	Tb	159		ug/L			655044	643852	0	Standard
	Pb	208	18.395	ug/L	0.363	1	75	796810	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:39:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	67396	2	Standard
	Cl	37		ug/L			4373298	4006597	0	Standard
⌈>	Sc	45		ug/L			544532	643355	0	Standard
|	Cr	52	16.637	ug/L	0.076	0	15553	402189	1	Standard
⌊	Cr	53	16.616	ug/L	0.097	0	269	45327	1	Standard
⌈>	Ge	72		ug/L			26846	26711	1	KED
|	Cu	63	40.962	ug/L	1.045	2	27	123822	2	KED
|	Cu	65	40.188	ug/L	0.810	2	13	60753	2	KED
|	Zn	66	73.945	ug/L	0.940	1	22	30131	2	KED
|	Zn	67	74.393	ug/L	3.497	4	3	5133	5	KED
⌊	As	75	7.826	ug/L	0.136	1	6	1618	1	KED
	Y	89		ug/L			285357	532549	0	Standard
	Kr	83		ug/L			53	182	7	Standard
⌈>	In-1	115		ug/L			7783	7533	3	KED
|	Cd	111	0.313	ug/L	0.047	14	3	77	15	KED
⌊	Cd	114	0.351	ug/L	0.060	17	5	206	17	KED
⌈>	In	115		ug/L			420460	380510	2	Standard
⌊	Ag	107	0.296	ug/L	0.011	3	62	3851	2	Standard
⌈>	Tb	159		ug/L			655044	635723	2	Standard
⌊	Pb	208	23.069	ug/L	0.369	1	75	986534	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:44:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	70639	2	Standard
	Cl	37		ug/L			4373298	4019679	1	Standard
>	Sc	45		ug/L			544532	632138	1	Standard
	Cr	52	19.085	ug/L	0.190	0	15553	450607	1	Standard
	Cr	53	18.801	ug/L	0.116	0	269	50348	1	Standard
>	Ge	72		ug/L			26846	26652	1	KED
	Cu	63	37.555	ug/L	0.360	0	27	113273	1	KED
	Cu	65	37.503	ug/L	0.703	1	13	56561	1	KED
	Zn	66	75.292	ug/L	1.421	1	22	30613	3	KED
	Zn	67	73.483	ug/L	0.956	1	3	5058	3	KED
	As	75	8.520	ug/L	0.158	1	6	1756	0	KED
	Y	89		ug/L			285357	537396	2	Standard
	Kr	83		ug/L			53	187	11	Standard
>	In-1	115		ug/L			7783	7214	1	KED
	Cd	111	0.773	ug/L	0.040	5	3	177	6	KED
	Cd	114	0.742	ug/L	0.047	6	5	412	6	KED
>	In	115		ug/L			420460	362560	2	Standard
	Ag	107	0.597	ug/L	0.019	3	62	7351	0	Standard
>	Tb	159		ug/L			655044	610940	2	Standard
	Pb	208	23.192	ug/L	0.561	2	75	952953	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:48:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	69329	3	Standard
	Cl	37		ug/L			4373298	4096844	2	Standard
>	Sc	45		ug/L			544532	655849	0	Standard
	Cr	52	14.483	ug/L	0.420	2	15553	359271	1	Standard
	Cr	53	14.667	ug/L	0.379	2	269	40821	1	Standard
>	Ge	72		ug/L			26846	25212	1	KED
	Cu	63	28.624	ug/L	0.432	1	27	81679	1	KED
	Cu	65	28.235	ug/L	0.782	2	13	40290	2	KED
	Zn	66	59.738	ug/L	2.456	4	22	22972	3	KED
	Zn	67	59.815	ug/L	0.816	1	3	3895	1	KED
	As	75	7.277	ug/L	0.157	2	6	1420	2	KED
	Y	89		ug/L			285357	517667	1	Standard
	Kr	83		ug/L			53	173	12	Standard
>	In-1	115		ug/L			7783	7219	3	KED
	Cd	111	0.185	ug/L	0.043	23	3	45	23	KED
	Cd	114	0.199	ug/L	0.020	10	5	114	12	KED
>	In	115		ug/L			420460	386149	1	Standard
	Ag	107	0.141	ug/L	0.005	3	62	1897	4	Standard
>	Tb	159		ug/L			655044	634912	3	Standard
	Pb	208	13.707	ug/L	0.381	2	75	585256	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0114-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:53:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	62477	0	Standard
	Cl	37		ug/L			4373298	4204356	1	Standard
>	Sc	45		ug/L			544532	610805	2	Standard
	Cr	52	24.594	ug/L	0.502	2	15553	555950	1	Standard
	Cr	53	24.467	ug/L	0.478	1	269	63226	3	Standard
>	Ge	72		ug/L			26846	26862	2	KED
	Cu	63	14.099	ug/L	0.185	1	27	42872	1	KED
	Cu	65	13.970	ug/L	0.214	1	13	21241	1	KED
	Zn	66	28.106	ug/L	1.284	4	22	11520	2	KED
	Zn	67	26.574	ug/L	0.438	1	3	1846	4	KED
	As	75	2.921	ug/L	0.062	2	6	611	1	KED
	Y	89		ug/L			285357	439271	1	Standard
	Kr	83		ug/L			53	107	17	Standard
>	In-1	115		ug/L			7783	6728	7	KED
	Cd	111	1.831	ug/L	0.103	5	3	387	5	KED
	Cd	114	1.884	ug/L	0.090	4	5	966	3	KED
>	In	115		ug/L			420460	392864	0	Standard
	Ag	107	0.077	ug/L	0.002	2	62	1085	2	Standard
>	Tb	159		ug/L			655044	639905	0	Standard
	Pb	208	2.081	ug/L	0.034	1	75	89673	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:57:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	38762	1	Standard
	Cl	**37**		ug/L			4373298	4156920	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	530557	2	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.034	203	15553	14829	4	Standard
⌊	**Cr**	**53**	**-0.051**	ug/L	0.007	13	269	148	10	Standard
⌈>	**Ge**	**72**		ug/L			26846	26467	1	KED
|	**Cu**	**63**	**0.005**	ug/L	0.001	26	27	43	11	KED
|	**Cu**	**65**	**0.002**	ug/L	0.001	50	13	17	11	KED
|	**Zn**	**66**	**0.001**	ug/L	0.022	2190	22	22	38	KED
|	**Zn**	**67**	**0.028**	ug/L	0.054	192	3	5	66	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	448	6	6	15	KED
	Y	**89**		ug/L			285357	274458	1	Standard
	Kr	**83**		ug/L			53	43	24	Standard
⌈>	**In-1**	**115**		ug/L			7783	7291	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.011	486	3	3	66	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.005	104	5	2	118	KED
⌈>	**In**	**115**		ug/L			420460	403342	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	73	62	53	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	634978	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	29	75	119	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:01:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36941	2	Standard
	Cl	**37**		ug/L			4373298	4241056	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	491854	1	Standard
|	**Cr**	**52**	**48.909**	ug/L	0.365	0	15553	876567	1	Standard
⌊	**Cr**	**53**	**48.932**	ug/L	0.186	0	269	101579	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	27005	1	KED
|	**Cu**	**63**	**50.299**	ug/L	0.608	1	27	153705	0	KED
|	**Cu**	**65**	**50.446**	ug/L	1.057	2	13	77085	0	KED
|	**Zn**	**66**	**51.460**	ug/L	1.028	1	22	21201	1	KED
|	**Zn**	**67**	**49.722**	ug/L	3.731	7	3	3466	6	KED
⌊	**As**	**75**	**50.507**	ug/L	0.836	1	6	10519	0	KED
	Y	**89**		ug/L			285357	258083	3	Standard
	Kr	**83**		ug/L			53	61	11	Standard
⌈>	**In-1**	**115**		ug/L			7783	7585	4	KED
|	**Cd**	**111**	**49.198**	ug/L	1.406	2	3	11662	2	KED
⌊	**Cd**	**114**	**49.843**	ug/L	1.539	3	5	28724	1	KED
⌈>	**In**	**115**		ug/L			420460	374286	2	Standard
⌊	**Ag**	**107**	**50.397**	ug/L	1.078	2	62	636219	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	611327	2	Standard
⌊	**Pb**	**208**	**51.361**	ug/L	1.233	2	75	2111582	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:09:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37649	1	Standard
	Cl	**37**		ug/L			4373298	3929096	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	490369	3	Standard
|	**Cr**	**52**	**0.013**	ug/L	0.020	157	15553	14225	2	Standard
⌊	**Cr**	**53**	**-0.048**	ug/L	0.006	12	269	143	5	Standard
⌈>	**Ge**	**72**		ug/L			26846	25652	3	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	181	27	29	16	KED
|	**Cu**	**65**	**0.001**	ug/L	0.002	294	13	14	27	KED
|	**Zn**	**66**	**-0.011**	ug/L	0.018	167	22	17	44	KED
|	**Zn**	**67**	**-0.017**	ug/L	0.015	90	3	2	43	KED
⌊	**As**	**75**	**0.010**	ug/L	0.017	164	6	8	40	KED
	Y	**89**		ug/L			285357	254848	2	Standard
	Kr	**83**		ug/L			53	57	13	Standard
⌈>	**In-1**	**115**		ug/L			7783	7394	1	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	705	3	3	34	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.009	238	5	7	67	KED
⌈>	**In**	**115**		ug/L			420460	384427	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	50	62	86	15	Standard
⌈>	**Tb**	**159**		ug/L			655044	608130	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	8	75	142	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:13:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				37442	0	Standard
	Cl	**37**		ug/L				3935892	2	Standard
⌈>	**Sc**	**45**		ug/L				508823	2	Standard
|	**Cr**	**52**		ug/L				14729	6	Standard
⌊	**Cr**	**53**		ug/L				130	7	Standard
⌈>	**Ge**	**72**		ug/L				25706	1	KED
|	**Cu**	**63**		ug/L				35	27	KED
|	**Cu**	**65**		ug/L				25	8	KED
|	**Zn**	**66**		ug/L				24	27	KED
|	**Zn**	**67**		ug/L				1	100	KED
⌊	**As**	**75**		ug/L				7	31	KED
	Y	**89**		ug/L				261919	1	Standard
	Kr	**83**		ug/L				60	21	Standard
⌈>	**In-1**	**115**		ug/L				7141	2	KED
|	**Cd**	**111**		ug/L				2	88	KED
⌊	**Cd**	**114**		ug/L				3	53	KED
⌈>	**In**	**115**		ug/L				388851	1	Standard
⌊	**Ag**	**107**		ug/L				59	17	Standard
⌈>	**Tb**	**159**		ug/L				618478	3	Standard
⌊	**Pb**	**208**		ug/L				110	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:17:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36715	1	Standard
	Cl	**37**		ug/L			3935892	4413335	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	510308	0	Standard
|	**Cr**	**52**	**48.998**	ug/L	0.866	1	14729	911310	1	Standard
⌊	**Cr**	**53**	**48.576**	ug/L	0.667	1	130	104493	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	26154	1	KED
|	**Cu**	**63**	**50.235**	ug/L	0.586	1	35	148687	1	KED
|	**Cu**	**65**	**51.149**	ug/L	0.650	1	25	75722	1	KED
|	**Zn**	**66**	**50.229**	ug/L	1.046	2	24	20045	0	KED
|	**Zn**	**67**	**51.080**	ug/L	1.527	2	1	3448	1	KED
⌊	**As**	**75**	**49.972**	ug/L	1.219	2	7	10080	0	KED
	Y	**89**		ug/L			261919	270031	2	Standard
	Kr	**83**		ug/L			60	61	42	Standard
⌈>	**In-1**	**115**		ug/L			7141	7337	2	KED
|	**Cd**	**111**	**49.964**	ug/L	1.111	2	2	11461	0	KED
⌊	**Cd**	**114**	**50.588**	ug/L	1.636	3	3	28214	2	KED
⌈>	**In**	**115**		ug/L			388851	385244	0	Standard
⌊	**Ag**	**107**	**49.982**	ug/L	0.499	0	59	649505	0	Standard
⌈>	**Tb**	**159**		ug/L			618478	624778	1	Standard
⌊	**Pb**	**208**	**51.071**	ug/L	0.732	1	110	2146504	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:24:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36949	4	Standard
	Cl	**37**		ug/L			3935892	3972336	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	499059	2	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.023	3783	14729	14453	2	Standard
⌊	**Cr**	**53**	**0.002**	ug/L	0.007	399	130	132	13	Standard
⌈>	**Ge**	**72**		ug/L			25706	25513	0	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.004	473	35	33	32	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.002	34	25	15	21	KED
|	**Zn**	**66**	**-0.017**	ug/L	0.008	43	24	17	16	KED
|	**Zn**	**67**	**0.058**	ug/L	0.050	85	1	5	57	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	118	7	6	16	KED
	Y	**89**		ug/L			261919	263928	5	Standard
	Kr	**83**		ug/L			60	60	10	Standard
⌈>	**In-1**	**115**		ug/L			7141	7415	4	KED
|	**Cd**	**111**	**0.009**	ug/L	0.005	60	2	5	28	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.006	1350	3	3	90	KED
⌈>	**In**	**115**		ug/L			388851	394530	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	21	59	92	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	617557	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	102	110	136	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0589-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:29:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38442	0	Standard
	Cl	**37**		ug/L			3935892	4802930	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	493824	0	Standard
|	**Cr**	**52**	**0.068**	ug/L	0.012	18	14729	15499	1	Standard
⌊	**Cr**	**53**	**1.444**	ug/L	0.008	0	130	3129	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	26269	1	KED
|	**Cu**	**63**	**5.134**	ug/L	0.089	1	35	15294	1	KED
|	**Cu**	**65**	**5.195**	ug/L	0.120	2	25	7748	2	KED
|	**Zn**	**66**	**100.778**	ug/L	1.264	1	24	40372	0	KED
|	**Zn**	**67**	**90.197**	ug/L	1.362	1	1	6117	2	KED
⌊	**As**	**75**	**0.126**	ug/L	0.009	7	7	33	4	KED
	Y	**89**		ug/L			261919	251499	0	Standard
	Kr	**83**		ug/L			60	52	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7206	2	KED
|	**Cd**	**111**	**0.181**	ug/L	0.047	25	2	43	26	KED
⌊	**Cd**	**114**	**0.135**	ug/L	0.007	5	3	77	4	KED
⌈>	**In**	**115**		ug/L			388851	380307	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	168	59	63	12	Standard
⌈>	**Tb**	**159**		ug/L			618478	607704	2	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.001	5	110	991	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0599-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:33:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	42049	1	Standard
	Cl	**37**		ug/L			3935892	4122124	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	522443	2	Standard
|	**Cr**	**52**	**0.531**	ug/L	0.008	1	14729	25077	1	Standard
⌊	**Cr**	**53**	**0.573**	ug/L	0.017	2	130	1393	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	26189	1	KED
|	**Cu**	**63**	**60.624**	ug/L	0.446	0	35	179671	0	KED
|	**Cu**	**65**	**60.455**	ug/L	0.625	1	25	89619	2	KED
|	**Zn**	**66**	**11.494**	ug/L	0.043	0	24	4613	1	KED
|	**Zn**	**67**	**11.084**	ug/L	0.266	2	1	751	3	KED
⌊	**As**	**75**	**0.173**	ug/L	0.014	7	7	42	6	KED
	Y	**89**		ug/L			261919	277232	1	Standard
	Kr	**83**		ug/L			60	50	4	Standard
⌈>	**In-1**	**115**		ug/L			7141	7502	2	KED
|	**Cd**	**111**	**0.134**	ug/L	0.011	8	2	34	5	KED
⌊	**Cd**	**114**	**0.141**	ug/L	0.011	7	3	84	7	KED
⌈>	**In**	**115**		ug/L			388851	400662	2	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	16	59	153	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	632816	2	Standard
⌊	**Pb**	**208**	**1.137**	ug/L	0.004	0	110	48514	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0598-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:37:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	44723	2	Standard
	Cl	**37**		ug/L			3935892	4942584	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	560897	2	Standard
|	**Cr**	**52**	**0.224**	ug/L	0.024	10	14729	20737	1	Standard
⌊	**Cr**	**53**	**0.823**	ug/L	0.014	1	130	2086	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	24925	1	KED
|	**Cu**	**63**	**0.273**	ug/L	0.010	3	35	804	2	KED
|	**Cu**	**65**	**0.282**	ug/L	0.021	7	25	422	8	KED
|	**Zn**	**66**	**44.377**	ug/L	0.059	0	24	16882	0	KED
|	**Zn**	**67**	**39.983**	ug/L	1.568	3	1	2574	4	KED
⌊	**As**	**75**	**0.154**	ug/L	0.009	5	7	36	5	KED
	Y	**89**		ug/L			261919	273005	2	Standard
	Kr	**83**		ug/L			60	57	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	7166	1	KED
|	**Cd**	**111**	**3.119**	ug/L	0.084	2	2	701	1	KED
⌊	**Cd**	**114**	**3.019**	ug/L	0.015	0	3	1648	1	KED
⌈>	**In**	**115**		ug/L			388851	384801	0	Standard
⌊	**Ag**	**107**	**0.013**	ug/L	0.023	179	59	223	131	Standard
⌈>	**Tb**	**159**		ug/L			618478	628686	2	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	7	110	487	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0234-DUP2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:42:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45443	2	Standard
	Cl	**37**		ug/L			3935892	5098913	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	566549	1	Standard
|	**Cr**	**52**	**0.202**	ug/L	0.023	11	14729	20504	3	Standard
⌊	**Cr**	**53**	**0.869**	ug/L	0.021	2	130	2218	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	24480	1	KED
|	**Cu**	**63**	**0.560**	ug/L	0.007	1	35	1585	2	KED
|	**Cu**	**65**	**0.541**	ug/L	0.025	4	25	773	4	KED
|	**Zn**	**66**	**44.532**	ug/L	1.228	2	24	16636	1	KED
|	**Zn**	**67**	**38.883**	ug/L	1.015	2	1	2458	3	KED
⌊	**As**	**75**	**0.129**	ug/L	0.032	25	7	31	21	KED
	Y	**89**		ug/L			261919	276551	1	Standard
	Kr	**83**		ug/L			60	55	15	Standard
⌈>	**In-1**	**115**		ug/L			7141	6738	4	KED
|	**Cd**	**111**	**2.950**	ug/L	0.224	7	2	622	3	KED
⌊	**Cd**	**114**	**3.082**	ug/L	0.037	1	3	1582	2	KED
⌈>	**In**	**115**		ug/L			388851	388616	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	78	59	50	15	Standard
⌈>	**Tb**	**159**		ug/L			618478	614278	0	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.001	2	110	1179	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0234-MS2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:46:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	46579	3	Standard
	Cl	**37**		ug/L			3935892	5205995	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	585842	1	Standard
|	**Cr**	**52**	**4.985**	ug/L	0.072	1	14729	121680	1	Standard
⌊	**Cr**	**53**	**5.605**	ug/L	0.089	1	130	13976	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	25944	2	KED
|	**Cu**	**63**	**5.524**	ug/L	0.091	1	35	16251	3	KED
|	**Cu**	**65**	**5.461**	ug/L	0.106	1	25	8040	1	KED
|	**Zn**	**66**	**61.173**	ug/L	0.705	1	24	24214	2	KED
|	**Zn**	**67**	**55.774**	ug/L	1.116	2	1	3736	3	KED
⌊	**As**	**75**	**5.494**	ug/L	0.056	1	7	1106	1	KED
	Y	**89**		ug/L			261919	282433	0	Standard
	Kr	**83**		ug/L			60	59	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	6981	2	KED
|	**Cd**	**111**	**8.325**	ug/L	0.225	2	2	1819	0	KED
⌊	**Cd**	**114**	**8.119**	ug/L	0.183	2	3	4311	1	KED
⌈>	**In**	**115**		ug/L			388851	392445	0	Standard
⌊	**Ag**	**107**	**5.044**	ug/L	0.045	0	59	66829	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	623053	1	Standard
⌊	**Pb**	**208**	**5.460**	ug/L	0.102	1	110	228934	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:51:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45653	2	Standard
	Cl	**37**		ug/L			3935892	4503757	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	594232	3	Standard
|	**Cr**	**52**	**11.014**	ug/L	0.173	1	14729	251847	3	Standard
⌊	**Cr**	**53**	**11.069**	ug/L	0.174	1	130	27837	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	27333	1	KED
|	**Cu**	**63**	**5.728**	ug/L	0.189	3	35	17753	3	KED
|	**Cu**	**65**	**5.616**	ug/L	0.116	2	25	8712	1	KED
|	**Zn**	**66**	**23.642**	ug/L	0.613	2	24	9874	2	KED
|	**Zn**	**67**	**22.033**	ug/L	0.709	3	1	1555	1	KED
⌊	**As**	**75**	**3.152**	ug/L	0.082	2	7	671	1	KED
	Y	**89**		ug/L			261919	382320	3	Standard
	Kr	**83**		ug/L			60	80	14	Standard
⌈>	**In-1**	**115**		ug/L			7141	7074	2	KED
|	**Cd**	**111**	**0.275**	ug/L	0.034	12	2	63	13	KED
⌊	**Cd**	**114**	**0.241**	ug/L	0.028	11	3	133	9	KED
⌈>	**In**	**115**		ug/L			388851	394194	3	Standard
⌊	**Ag**	**107**	**0.038**	ug/L	0.001	1	59	563	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	631270	2	Standard
⌊	**Pb**	**208**	**3.484**	ug/L	0.035	0	110	148050	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:55:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	59254	0	Standard
	Cl	**37**		ug/L			3935892	4442140	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	585555	5	Standard
|	**Cr**	**52**	**12.213**	ug/L	0.408	3	14729	273094	1	Standard
⌊	**Cr**	**53**	**12.236**	ug/L	0.368	3	130	30286	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	25367	3	KED
|	**Cu**	**63**	**5.747**	ug/L	0.235	4	35	16518	2	KED
|	**Cu**	**65**	**5.638**	ug/L	0.208	3	25	8113	2	KED
|	**Zn**	**66**	**24.602**	ug/L	1.108	4	24	9528	1	KED
|	**Zn**	**67**	**22.676**	ug/L	2.435	10	1	1483	7	KED
⌊	**As**	**75**	**3.414**	ug/L	0.035	1	7	674	2	KED
	Y	**89**		ug/L			261919	388054	3	Standard
	Kr	**83**		ug/L			60	87	11	Standard
⌈>	**In-1**	**115**		ug/L			7141	7029	1	KED
|	**Cd**	**111**	**0.300**	ug/L	0.042	13	2	68	12	KED
⌊	**Cd**	**114**	**0.233**	ug/L	0.021	9	3	128	6	KED
⌈>	**In**	**115**		ug/L			388851	389091	3	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	6	59	511	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	626607	4	Standard
⌊	**Pb**	**208**	**3.645**	ug/L	0.067	1	110	153710	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:59:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	50551	0	Standard
	Cl	**37**		ug/L			3935892	4268292	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	537994	10	Standard
|	**Cr**	**52**	**35.889**	ug/L	2.722	7	14729	704248	3	Standard
⌊	**Cr**	**53**	**35.125**	ug/L	2.064	5	130	79387	5	Standard
⌈>	**Ge**	**72**		ug/L			25706	26474	1	KED
|	**Cu**	**63**	**32.363**	ug/L	0.330	1	35	96987	2	KED
|	**Cu**	**65**	**31.680**	ug/L	0.761	2	25	47492	3	KED
|	**Zn**	**66**	**108.063**	ug/L	1.936	1	24	43635	2	KED
|	**Zn**	**67**	**102.906**	ug/L	0.762	0	1	7032	1	KED
⌊	**As**	**75**	**28.220**	ug/L	0.940	3	7	5767	4	KED
	Y	**89**		ug/L			261919	363356	7	Standard
	Kr	**83**		ug/L			60	78	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	6765	2	KED
|	**Cd**	**111**	**25.993**	ug/L	1.007	3	2	5496	1	KED
⌊	**Cd**	**114**	**26.533**	ug/L	0.741	2	3	13644	0	KED
⌈>	**In**	**115**		ug/L			388851	368164	8	Standard
⌊	**Ag**	**107**	**27.136**	ug/L	0.954	3	59	336461	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	601491	9	Standard
⌊	**Pb**	**208**	**31.698**	ug/L	2.239	7	110	1277123	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 02:04:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	59088	0	Standard
	Cl	**37**		ug/L			3935892	4472030	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	595374	4	Standard
|	**Cr**	**52**	**34.707**	ug/L	1.599	4	14729	757228	0	Standard
⌊	**Cr**	**53**	**34.439**	ug/L	0.681	1	130	86436	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	25650	1	KED
|	**Cu**	**63**	**32.314**	ug/L	1.101	3	35	93796	2	KED
|	**Cu**	**65**	**31.444**	ug/L	0.588	1	25	45656	0	KED
|	**Zn**	**66**	**106.965**	ug/L	3.418	3	24	41833	2	KED
|	**Zn**	**67**	**98.850**	ug/L	3.877	3	1	6543	2	KED
⌊	**As**	**75**	**28.502**	ug/L	0.393	1	7	5642	0	KED
	Y	**89**		ug/L			261919	386735	2	Standard
	Kr	**83**		ug/L			60	100	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7217	1	KED
|	**Cd**	**111**	**26.235**	ug/L	0.146	0	2	5922	1	KED
⌊	**Cd**	**114**	**26.057**	ug/L	0.397	1	3	14300	0	KED
⌈>	**In**	**115**		ug/L			388851	400037	0	Standard
⌊	**Ag**	**107**	**25.145**	ug/L	0.334	1	59	339354	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	639732	2	Standard
⌊	**Pb**	**208**	**30.810**	ug/L	0.715	2	110	1325751	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:08:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37579	2	Standard
	Cl	**37**		ug/L			3935892	4226620	1	Standard
⎡>	**Sc**	**45**		ug/L			508823	508932	3	Standard
⎢	**Cr**	**52**	**-0.001**	ug/L	0.029	1980	14729	14695	1	Standard
⎣	**Cr**	**53**	**0.015**	ug/L	0.006	37	130	162	8	Standard
⎡>	**Ge**	**72**		ug/L			25706	26176	1	KED
⎢	**Cu**	**63**	**0.002**	ug/L	0.001	94	35	40	9	KED
⎢	**Cu**	**65**	**0.004**	ug/L	0.002	50	25	32	10	KED
⎢	**Zn**	**66**	**0.029**	ug/L	0.031	105	24	36	33	KED
⎢	**Zn**	**67**	**0.047**	ug/L	0.044	93	1	5	57	KED
⎣	**As**	**75**	**0.003**	ug/L	0.009	354	7	8	21	KED
	Y	**89**		ug/L			261919	267714	2	Standard
	Kr	**83**		ug/L			60	48	13	Standard
⎡>	**In-1**	**115**		ug/L			7141	7055	1	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.009	336	2	2	89	KED
⎣	**Cd**	**114**	**-0.004**	ug/L	0.003	97	3	1	107	KED
⎡>	**In**	**115**		ug/L			388851	391615	0	Standard
⎣	**Ag**	**107**	**0.002**	ug/L	0.000	9	59	85	2	Standard
⎡>	**Tb**	**159**		ug/L			618478	605337	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.001	78	110	143	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:12:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37469	1	Standard
	Cl	**37**		ug/L			3935892	4484147	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	521346	1	Standard
|	**Cr**	**52**	**48.840**	ug/L	0.589	1	14729	928245	3	Standard
⌊	**Cr**	**53**	**48.803**	ug/L	0.862	1	130	107282	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	25686	2	KED
|	**Cu**	**63**	**52.052**	ug/L	2.244	4	35	151225	2	KED
|	**Cu**	**65**	**51.017**	ug/L	1.014	1	25	74157	1	KED
|	**Zn**	**66**	**51.527**	ug/L	1.495	2	24	20189	1	KED
|	**Zn**	**67**	**51.229**	ug/L	2.273	4	1	3395	2	KED
⌊	**As**	**75**	**50.581**	ug/L	1.271	2	7	10019	1	KED
	Y	**89**		ug/L			261919	269800	1	Standard
	Kr	**83**		ug/L			60	59	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	6859	3	KED
|	**Cd**	**111**	**50.752**	ug/L	1.548	3	2	10880	0	KED
⌊	**Cd**	**114**	**51.846**	ug/L	1.975	3	3	27022	1	KED
⌈>	**In**	**115**		ug/L			388851	390224	3	Standard
⌊	**Ag**	**107**	**49.666**	ug/L	1.906	3	59	654111	6	Standard
⌈>	**Tb**	**159**		ug/L			618478	616224	2	Standard
⌊	**Pb**	**208**	**52.541**	ug/L	0.685	1	110	2178067	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:20:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37791	1	Standard
	Cl	**37**		ug/L			3935892	4195550	6	Standard
⌈>	**Sc**	**45**		ug/L			508823	512500	6	Standard
|	**Cr**	**52**	**-0.024**	ug/L	0.017	71	14729	14380	4	Standard
⌊	**Cr**	**53**	**0.010**	ug/L	0.004	40	130	152	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	26166	3	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	41	35	26	18	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.007	72	25	10	97	KED
|	**Zn**	**66**	**-0.025**	ug/L	0.014	55	24	15	33	KED
|	**Zn**	**67**	**0.018**	ug/L	0.016	86	1	3	34	KED
⌊	**As**	**75**	**0.002**	ug/L	0.005	208	7	8	15	KED
	Y	**89**		ug/L			261919	259581	5	Standard
	Kr	**83**		ug/L			60	51	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7309	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.004	101	2	3	25	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	392	3	3	96	KED
⌈>	**In**	**115**		ug/L			388851	385183	6	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	48	59	89	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	605144	5	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	10	110	172	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0649-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:24:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			37442	52198	1	Standard
	Cl	37		ug/L			3935892	4309630	3	Standard
>	Sc	45		ug/L			508823	528643	1	Standard
	Cr	52	0.587	ug/L	0.016	2	14729	26421	1	Standard
	Cr	53	0.631	ug/L	0.033	5	130	1539	3	Standard
>	Ge	72		ug/L			25706	17720	4	KED
	Cu	63	5.095	ug/L	0.026	0	35	10241	4	KED
	Cu	65	5.036	ug/L	0.167	3	25	5062	1	KED
	Zn	66	144.937	ug/L	2.890	1	24	39150	3	KED
	Zn	67	130.544	ug/L	3.240	2	1	5968	3	KED
	As	75	0.099	ug/L	0.022	22	7	18	20	KED
	Y	89		ug/L			261919	271388	2	Standard
	Kr	83		ug/L			60	46	32	Standard
>	In-1	115		ug/L			7141	7298	1	KED
	Cd	111	0.030	ug/L	0.020	64	2	9	44	KED
	Cd	114	-0.003	ug/L	0.008	281	3	2	188	KED
>	In	115		ug/L			388851	396781	1	Standard
	Ag	107	0.003	ug/L	0.001	23	59	107	8	Standard
>	Tb	159		ug/L			618478	614748	0	Standard
	Pb	208	0.845	ug/L	0.006	0	110	35055	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0650-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:27:37

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			37442	30577	1	Standard
	Cl	37		ug/L			3935892	165047941	2	Standard
>	Sc	45		ug/L			508823	199389	0	Standard
	Cr	52	3.411	ug/L	0.116	3	14729	30157	2	Standard
	Cr	53	178.366	ug/L	4.710	2	130	149791	2	Standard
>	Ge	72		ug/L			25706	4933	5	KED
	Cu	63	41.904	ug/L	0.596	1	35	23386	3	KED
	Cu	65	41.010	ug/L	0.987	2	25	11450	5	KED
	Zn	66	277.106	ug/L	4.750	1	24	20834	4	KED
	Zn	67	243.223	ug/L	5.930	2	1	3096	5	KED
	As	75	33.526	ug/L	0.761	2	7	1275	3	KED
	Y	89		ug/L			261919	103481	1	Standard
	Kr	83		ug/L			60	99405	2	Standard
>	In-1	115		ug/L			7141	2312	1	KED
	Cd	111	2.856	ug/L	0.137	4	2	207	3	KED
	Cd	114	2.885	ug/L	0.062	2	3	508	2	KED
>	In	115		ug/L			388851	132655	0	Standard
	Ag	107	0.032	ug/L	0.004	12	59	164	11	Standard
>	Tb	159		ug/L			618478	234489	0	Standard
	Pb	208	22.254	ug/L	0.056	0	110	351114	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0651-01
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:30:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			37442	45352	0	Standard
Cl	37		ug/L			3935892	169288153	3	Standard
> Sc	45		ug/L			508823	255833	1	Standard
Cr	52	**3.670**	ug/L	0.077	2	14729	41074	2	Standard
Cr	53	**187.927**	ug/L	0.484	0	130	202497	2	Standard
> Ge	72		ug/L			25706	5921	8	KED
Cu	63	**16.501**	ug/L	0.947	5	35	11029	2	KED
Cu	65	**15.559**	ug/L	0.893	5	25	5202	2	KED
Zn	66	**261.060**	ug/L	11.764	4	24	23510	4	KED
Zn	67	**231.963**	ug/L	10.543	4	1	3536	3	KED
As	75	**1.241**	ug/L	0.049	3	7	58	10	KED
Y	89		ug/L			261919	118340	1	Standard
Kr	83		ug/L			60	77878	5	Standard
> In-1	115		ug/L			7141	2826	1	KED
Cd	111	**1.299**	ug/L	0.123	9	2	115	8	KED
Cd	114	**1.390**	ug/L	0.039	2	3	300	3	KED
> In	115		ug/L			388851	153146	2	Standard
Ag	107	**0.031**	ug/L	0.004	14	59	182	12	Standard
> Tb	159		ug/L			618478	269428	1	Standard
Pb	208	**2.532**	ug/L	0.013	0	110	45941	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0653-01
Sample Dil Factor:
Comments:
DEL
Sample Date/Time: Friday, January 13, 2023 02:34:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	57362	0	Standard
	Cl	**37**		ug/L			3935892	8704843	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	509002	1	Standard
|	**Cr**	**52**	**0.617**	ug/L	0.015	2	14729	26003	0	Standard
⌊	**Cr**	**53**	**11.552**	ug/L	0.309	2	130	24892	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	21951	3	KED
|	**Cu**	**63**	**3.512**	ug/L	0.107	3	35	8748	2	KED
|	**Cu**	**65**	**3.452**	ug/L	0.097	2	25	4307	1	KED
|	**Zn**	**66**	**98.644**	ug/L	2.283	2	24	33008	1	KED
|	**Zn**	**67**	**89.339**	ug/L	2.802	3	1	5061	3	KED
⌊	**As**	**75**	**0.302**	ug/L	0.035	11	7	57	12	KED
	Y	**89**		ug/L			261919	271049	2	Standard
	Kr	**83**		ug/L			60	273	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	8507	0	KED
|	**Cd**	**111**	**0.022**	ug/L	0.005	25	2	9	15	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.008	27	3	24	22	KED
⌈>	**In**	**115**		ug/L			388851	378730	0	Standard
⌊	**Ag**	**107**	**0.020**	ug/L	0.000	2	59	313	2	Standard
⌈>	**Tb**	**159**		ug/L			618478	667228	1	Standard
⌊	**Pb**	**208**	**0.312**	ug/L	0.004	1	110	14112	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0655-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 02:37:21

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39868	0	Standard
	Cl	**37**		ug/L			3935892	5185019	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	511299	2	Standard
|	**Cr**	**52**	**1.716**	ug/L	0.045	2	14729	46258	3	Standard
⌊	**Cr**	**53**	**6.982**	ug/L	0.138	1	130	15161	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	20726	3	KED
|	**Cu**	**63**	**9.961**	ug/L	0.234	2	35	23376	1	KED
|	**Cu**	**65**	**9.909**	ug/L	0.143	1	25	11645	4	KED
|	**Zn**	**66**	**34.946**	ug/L	0.866	2	24	11062	5	KED
|	**Zn**	**67**	**32.365**	ug/L	1.419	4	1	1731	3	KED
⌊	**As**	**75**	**0.444**	ug/L	0.064	14	7	77	15	KED
	Y	**89**		ug/L			261919	274307	3	Standard
	Kr	**83**		ug/L			60	85	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	8181	0	KED
|	**Cd**	**111**	**0.166**	ug/L	0.036	21	2	45	20	KED
⌊	**Cd**	**114**	**0.158**	ug/L	0.007	4	3	102	4	KED
⌈>	**In**	**115**		ug/L			388851	390169	3	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.001	12	59	205	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	664665	3	Standard
⌊	**Pb**	**208**	**2.474**	ug/L	0.052	2	110	110703	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0656-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:40:36

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	55641	0	Standard
	Cl	**37**		ug/L			3935892	5643750	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	542343	1	Standard
|	**Cr**	**52**	**5.295**	ug/L	0.065	1	14729	118656	0	Standard
⌊	**Cr**	**53**	**9.381**	ug/L	0.109	1	130	21559	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19287	6	KED
|	**Cu**	**63**	**10.974**	ug/L	0.570	5	35	23930	3	KED
|	**Cu**	**65**	**11.154**	ug/L	0.451	4	25	12173	3	KED
|	**Zn**	**66**	**81.935**	ug/L	2.893	3	24	24068	3	KED
|	**Zn**	**67**	**76.896**	ug/L	0.311	0	1	3829	6	KED
⌊	**As**	**75**	**2.560**	ug/L	0.222	8	7	385	6	KED
	Y	**89**		ug/L			261919	282365	1	Standard
	Kr	**83**		ug/L			60	83	19	Standard
⌈>	**In-1**	**115**		ug/L			7141	7766	1	KED
|	**Cd**	**111**	**0.147**	ug/L	0.035	23	2	38	19	KED
⌊	**Cd**	**114**	**0.216**	ug/L	0.007	3	3	131	4	KED
⌈>	**In**	**115**		ug/L			388851	368381	1	Standard
⌊	**Ag**	**107**	**0.016**	ug/L	0.000	2	59	254	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	643998	1	Standard
⌊	**Pb**	**208**	**3.843**	ug/L	0.074	1	110	166575	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0660-03
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:43:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	49743	3	Standard
	Cl	**37**		ug/L			3935892	6933263	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	474534	5	Standard
|	**Cr**	**52**	**7.179**	ug/L	0.093	1	14729	135846	3	Standard
⌊	**Cr**	**53**	**13.846**	ug/L	0.351	2	130	27761	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18190	5	KED
|	**Cu**	**63**	**12.306**	ug/L	0.232	1	35	25338	3	KED
|	**Cu**	**65**	**12.143**	ug/L	0.526	4	25	12501	2	KED
|	**Zn**	**66**	**40.722**	ug/L	0.518	1	24	11304	4	KED
|	**Zn**	**67**	**39.781**	ug/L	0.409	1	1	1868	5	KED
⌊	**As**	**75**	**0.994**	ug/L	0.062	6	7	144	8	KED
	Y	**89**		ug/L			261919	253107	5	Standard
	Kr	**83**		ug/L			60	79	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7807	2	KED
|	**Cd**	**111**	**0.055**	ug/L	0.004	7	2	16	6	KED
⌊	**Cd**	**114**	**0.041**	ug/L	0.027	66	3	27	55	KED
⌈>	**In**	**115**		ug/L			388851	358658	4	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.001	15	59	132	10	Standard
⌈>	**Tb**	**159**		ug/L			618478	633858	4	Standard
⌊	**Pb**	**208**	**2.266**	ug/L	0.051	2	110	96682	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0660-05
Sample Dil Factor: 2
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:47:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	43598	2	Standard
	Cl	**37**		ug/L			3935892	5660116	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	472702	1	Standard
|	**Cr**	**52**	**5.309**	ug/L	0.033	0	14729	103674	2	Standard
⌊	**Cr**	**53**	**9.709**	ug/L	0.059	0	130	19443	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18264	2	KED
|	**Cu**	**63**	**18.389**	ug/L	0.250	1	35	38030	2	KED
|	**Cu**	**65**	**18.083**	ug/L	0.408	2	25	18710	3	KED
|	**Zn**	**66**	**77.192**	ug/L	1.957	2	24	21512	4	KED
|	**Zn**	**67**	**75.648**	ug/L	1.709	2	1	3566	1	KED
⌊	**As**	**75**	**0.942**	ug/L	0.021	2	7	137	3	KED
	Y	**89**		ug/L			261919	272650	2	Standard
	Kr	**83**		ug/L			60	66	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7798	3	KED
|	**Cd**	**111**	**0.093**	ug/L	0.035	37	2	25	29	KED
⌊	**Cd**	**114**	**0.059**	ug/L	0.017	28	3	39	27	KED
⌈>	**In**	**115**		ug/L			388851	366860	2	Standard
⌊	**Ag**	**107**	**0.012**	ug/L	0.003	22	59	208	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	639361	2	Standard
⌊	**Pb**	**208**	**7.042**	ug/L	0.156	2	110	302945	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-02
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:50:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36285	1	Standard
	Cl	**37**		ug/L			3935892	4142953	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	500147	1	Standard
|	**Cr**	**52**	**11.202**	ug/L	0.168	1	14729	215380	2	Standard
⌊	**Cr**	**53**	**13.137**	ug/L	0.116	0	130	27794	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18934	5	KED
|	**Cu**	**63**	**5.699**	ug/L	0.204	3	35	12221	3	KED
|	**Cu**	**65**	**5.673**	ug/L	0.216	3	25	6087	2	KED
|	**Zn**	**66**	**23.320**	ug/L	0.600	2	24	6742	3	KED
|	**Zn**	**67**	**22.829**	ug/L	0.348	1	1	1117	7	KED
⌊	**As**	**75**	**3.422**	ug/L	0.050	1	7	504	5	KED
	Y	**89**		ug/L			261919	355571	0	Standard
	Kr	**83**		ug/L			60	88	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	8031	1	KED
|	**Cd**	**111**	**0.224**	ug/L	0.005	2	2	59	0	KED
⌊	**Cd**	**114**	**0.251**	ug/L	0.005	2	3	157	2	KED
⌈>	**In**	**115**		ug/L			388851	374091	2	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.001	1	59	512	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	659107	1	Standard
⌊	**Pb**	**208**	**3.075**	ug/L	0.013	0	110	136460	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:53:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	29247	6	Standard
	Cl	**37**		ug/L			3935892	3751040	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	425826	5	Standard
|	**Cr**	**52**	**0.074**	ug/L	0.027	36	14729	13457	6	Standard
⌊	**Cr**	**53**	**2.237**	ug/L	0.088	3	130	4115	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18506	2	KED
|	**Cu**	**63**	**0.005**	ug/L	0.006	116	35	35	30	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	142	25	15	18	KED
|	**Zn**	**66**	**0.016**	ug/L	0.010	61	24	22	9	KED
|	**Zn**	**67**	**0.050**	ug/L	0.038	74	1	3	50	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.007	100	7	4	22	KED
	Y	**89**		ug/L			261919	232884	3	Standard
	Kr	**83**		ug/L			60	50	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	7932	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	228	2	2	57	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.004	1664	3	4	54	KED
⌈>	**In**	**115**		ug/L			388851	353903	4	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	53	59	41	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	602381	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	20	110	185	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:57:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	30052	2	Standard
	Cl	**37**		ug/L			3935892	4070988	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	452826	0	Standard
|	**Cr**	**52**	**50.727**	ug/L	1.547	3	14729	836686	2	Standard
⌊	**Cr**	**53**	**52.295**	ug/L	0.883	1	130	99817	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18086	7	KED
|	**Cu**	**63**	**56.383**	ug/L	2.935	5	35	115130	1	KED
|	**Cu**	**65**	**55.544**	ug/L	1.834	3	25	56783	4	KED
|	**Zn**	**66**	**53.327**	ug/L	2.812	5	24	14692	4	KED
|	**Zn**	**67**	**52.875**	ug/L	2.045	3	1	2466	5	KED
⌊	**As**	**75**	**52.460**	ug/L	0.760	1	7	7316	6	KED
	Y	**89**		ug/L			261919	253844	1	Standard
	Kr	**83**		ug/L			60	66	28	Standard
⌈>	**In-1**	**115**		ug/L			7141	8068	1	KED
|	**Cd**	**111**	**48.291**	ug/L	0.715	1	2	12185	2	KED
⌊	**Cd**	**114**	**48.229**	ug/L	0.306	0	3	29590	1	KED
⌈>	**In**	**115**		ug/L			388851	365899	0	Standard
⌊	**Ag**	**107**	**52.142**	ug/L	1.599	3	59	643600	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	632630	1	Standard
⌊	**Pb**	**208**	**48.210**	ug/L	1.087	2	110	2051604	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:03:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	28889	3	Standard
	Cl	**37**		ug/L			3935892	3758010	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	434363	2	Standard
|	**Cr**	**52**	**0.069**	ug/L	0.006	9	14729	13649	2	Standard
⌊	**Cr**	**53**	**1.505**	ug/L	0.014	0	130	2865	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	16729	4	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	138	35	19	36	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.008	91	25	8	86	KED
|	**Zn**	**66**	**-0.019**	ug/L	0.032	173	24	11	72	KED
|	**Zn**	**67**	**0.103**	ug/L	0.075	72	1	5	57	KED
⌊	**As**	**75**	**0.002**	ug/L	0.013	616	7	5	28	KED
	Y	**89**		ug/L			261919	239890	3	Standard
	Kr	**83**		ug/L			60	57	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	8221	2	KED
|	**Cd**	**111**	**0.008**	ug/L	0.005	65	2	5	26	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	168	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	356058	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	59	59	60	8	Standard
⌈>	**Tb**	**159**		ug/L			618478	609431	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	21	110	177	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:06:31

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45819	2	Standard
	Cl	**37**		ug/L			3935892	3834492	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	469497	2	Standard
|	**Cr**	**52**	**10.906**	ug/L	0.077	0	14729	197174	2	Standard
⌊	**Cr**	**53**	**11.800**	ug/L	0.157	1	130	23443	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	17884	5	KED
|	**Cu**	**63**	**5.331**	ug/L	0.239	4	35	10794	2	KED
|	**Cu**	**65**	**5.383**	ug/L	0.231	4	25	5456	2	KED
|	**Zn**	**66**	**21.944**	ug/L	0.638	2	24	5995	5	KED
|	**Zn**	**67**	**20.799**	ug/L	0.616	2	1	960	4	KED
⌊	**As**	**75**	**3.018**	ug/L	0.056	1	7	421	7	KED
	Y	**89**		ug/L			261919	334065	3	Standard
	Kr	**83**		ug/L			60	70	10	Standard
⌈>	**In-1**	**115**		ug/L			7141	7687	3	KED
|	**Cd**	**111**	**0.212**	ug/L	0.027	12	2	53	13	KED
⌊	**Cd**	**114**	**0.201**	ug/L	0.043	21	3	121	23	KED
⌈>	**In**	**115**		ug/L			388851	355257	3	Standard
⌊	**Ag**	**107**	**0.029**	ug/L	0.002	8	59	403	6	Standard
⌈>	**Tb**	**159**		ug/L			618478	622980	1	Standard
⌊	**Pb**	**208**	**3.035**	ug/L	0.018	0	110	127329	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-04
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:09:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52362	1	Standard
	Cl	**37**		ug/L			3935892	3894152	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	484566	3	Standard
|	**Cr**	**52**	**10.859**	ug/L	0.259	2	14729	202630	2	Standard
⌊	**Cr**	**53**	**11.969**	ug/L	0.316	2	130	24530	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19083	3	KED
|	**Cu**	**63**	**16.042**	ug/L	0.548	3	35	34636	1	KED
|	**Cu**	**65**	**16.055**	ug/L	0.573	3	25	17341	1	KED
|	**Zn**	**66**	**25.283**	ug/L	0.451	1	24	7370	2	KED
|	**Zn**	**67**	**23.090**	ug/L	1.121	4	1	1137	1	KED
⌊	**As**	**75**	**3.567**	ug/L	0.159	4	7	529	0	KED
	Y	**89**		ug/L			261919	353434	3	Standard
	Kr	**83**		ug/L			60	83	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	8028	2	KED
|	**Cd**	**111**	**0.285**	ug/L	0.025	8	2	74	6	KED
⌊	**Cd**	**114**	**0.255**	ug/L	0.016	6	3	159	5	KED
⌈>	**In**	**115**		ug/L			388851	366434	0	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.003	9	59	504	8	Standard
⌈>	**Tb**	**159**		ug/L			618478	626646	1	Standard
⌊	**Pb**	**208**	**3.339**	ug/L	0.084	2	110	140876	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-05
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:13:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	47432	0	Standard
	Cl	**37**		ug/L			3935892	3761227	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	467605	1	Standard
|	**Cr**	**52**	**11.771**	ug/L	0.130	1	14729	210887	0	Standard
⌊	**Cr**	**53**	**12.713**	ug/L	0.419	3	130	25141	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18384	4	KED
|	**Cu**	**63**	**12.197**	ug/L	0.165	1	35	25403	5	KED
|	**Cu**	**65**	**12.137**	ug/L	0.253	2	25	12639	4	KED
|	**Zn**	**66**	**24.866**	ug/L	0.404	1	24	6982	3	KED
|	**Zn**	**67**	**22.291**	ug/L	1.656	7	1	1056	3	KED
⌊	**As**	**75**	**3.295**	ug/L	0.069	2	7	472	6	KED
	Y	**89**		ug/L			261919	330589	0	Standard
	Kr	**83**		ug/L			60	78	18	Standard
⌈>	**In-1**	**115**		ug/L			7141	7620	3	KED
|	**Cd**	**111**	**0.203**	ug/L	0.028	13	2	51	12	KED
⌊	**Cd**	**114**	**0.241**	ug/L	0.028	11	3	144	14	KED
⌈>	**In**	**115**		ug/L			388851	349395	1	Standard
⌊	**Ag**	**107**	**0.035**	ug/L	0.001	3	59	464	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	615718	0	Standard
⌊	**Pb**	**208**	**3.303**	ug/L	0.063	1	110	136910	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-06
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:16:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52437	1	Standard
	Cl	**37**		ug/L			3935892	3863136	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	505134	2	Standard
|	**Cr**	**52**	**11.420**	ug/L	0.297	2	14729	221504	4	Standard
⌊	**Cr**	**53**	**12.124**	ug/L	0.188	1	130	25913	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18893	6	KED
|	**Cu**	**63**	**6.031**	ug/L	0.265	4	35	12897	2	KED
|	**Cu**	**65**	**5.983**	ug/L	0.364	6	25	6398	0	KED
|	**Zn**	**66**	**24.325**	ug/L	0.964	3	24	7018	5	KED
|	**Zn**	**67**	**23.434**	ug/L	0.627	2	1	1142	4	KED
⌊	**As**	**75**	**3.313**	ug/L	0.181	5	7	487	7	KED
	Y	**89**		ug/L			261919	352138	2	Standard
	Kr	**83**		ug/L			60	97	10	Standard
⌈>	**In-1**	**115**		ug/L			7141	8010	1	KED
|	**Cd**	**111**	**0.246**	ug/L	0.041	16	2	64	15	KED
⌊	**Cd**	**114**	**0.225**	ug/L	0.021	9	3	141	10	KED
⌈>	**In**	**115**		ug/L			388851	367636	1	Standard
⌊	**Ag**	**107**	**0.038**	ug/L	0.002	4	59	531	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	639905	2	Standard
⌊	**Pb**	**208**	**3.630**	ug/L	0.063	1	110	156341	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-07
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 03:19:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35287	0	Standard
	Cl	**37**		ug/L			3935892	3824908	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	489545	3	Standard
|	**Cr**	**52**	**10.545**	ug/L	0.371	3	14729	199139	0	Standard
⌊	**Cr**	**53**	**11.345**	ug/L	0.099	0	130	23505	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19198	4	KED
|	**Cu**	**63**	**5.450**	ug/L	0.110	2	35	11860	3	KED
|	**Cu**	**65**	**5.338**	ug/L	0.111	2	25	5814	3	KED
|	**Zn**	**66**	**22.152**	ug/L	0.101	0	24	6501	4	KED
|	**Zn**	**67**	**23.516**	ug/L	1.377	5	1	1164	1	KED
⌊	**As**	**75**	**2.963**	ug/L	0.090	3	7	444	5	KED
	Y	**89**		ug/L			261919	348017	2	Standard
	Kr	**83**		ug/L			60	82	12	Standard
⌈>	**In-1**	**115**		ug/L			7141	7935	5	KED
|	**Cd**	**111**	**0.254**	ug/L	0.018	7	2	66	9	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.008	3	3	151	6	KED
⌈>	**In**	**115**		ug/L			388851	362649	0	Standard
⌊	**Ag**	**107**	**0.031**	ug/L	0.001	2	59	434	2	Standard
⌈>	**Tb**	**159**		ug/L			618478	631352	2	Standard
⌊	**Pb**	**208**	**3.366**	ug/L	0.068	2	110	143039	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-08
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:23:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35039	1	Standard
	Cl	**37**		ug/L			3935892	3810338	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	495239	3	Standard
|	**Cr**	**52**	**10.704**	ug/L	0.108	1	14729	204441	3	Standard
⌊	**Cr**	**53**	**11.590**	ug/L	0.037	0	130	24291	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19125	3	KED
|	**Cu**	**63**	**5.851**	ug/L	0.138	2	35	12682	2	KED
|	**Cu**	**65**	**5.854**	ug/L	0.148	2	25	6351	2	KED
|	**Zn**	**66**	**22.654**	ug/L	0.431	1	24	6619	1	KED
|	**Zn**	**67**	**22.374**	ug/L	1.264	5	1	1106	8	KED
⌊	**As**	**75**	**3.196**	ug/L	0.096	2	7	476	6	KED
	Y	**89**		ug/L			261919	338897	2	Standard
	Kr	**83**		ug/L			60	85	4	Standard
⌈>	**In-1**	**115**		ug/L			7141	8043	5	KED
|	**Cd**	**111**	**0.248**	ug/L	0.023	9	2	65	12	KED
⌊	**Cd**	**114**	**0.249**	ug/L	0.054	21	3	155	15	KED
⌈>	**In**	**115**		ug/L			388851	361753	1	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.001	3	59	497	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	627931	1	Standard
⌊	**Pb**	**208**	**3.308**	ug/L	0.012	0	110	139838	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-09
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:26:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	49957	4	Standard
	Cl	**37**		ug/L			3935892	3732248	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	473410	4	Standard
|	**Cr**	**52**	**11.968**	ug/L	0.309	2	14729	216719	3	Standard
⌊	**Cr**	**53**	**12.680**	ug/L	0.206	1	130	25384	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18438	4	KED
|	**Cu**	**63**	**5.579**	ug/L	0.003	0	35	11664	4	KED
|	**Cu**	**65**	**5.613**	ug/L	0.227	4	25	5867	2	KED
|	**Zn**	**66**	**23.488**	ug/L	0.373	1	24	6615	3	KED
|	**Zn**	**67**	**21.846**	ug/L	1.634	7	1	1039	6	KED
⌊	**As**	**75**	**3.054**	ug/L	0.160	5	7	438	0	KED
	Y	**89**		ug/L			261919	326903	4	Standard
	Kr	**83**		ug/L			60	74	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7590	0	KED
|	**Cd**	**111**	**0.235**	ug/L	0.015	6	2	58	6	KED
⌊	**Cd**	**114**	**0.265**	ug/L	0.034	12	3	156	12	KED
⌈>	**In**	**115**		ug/L			388851	351981	3	Standard
⌊	**Ag**	**107**	**0.037**	ug/L	0.005	13	59	488	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	613500	1	Standard
⌊	**Pb**	**208**	**3.541**	ug/L	0.019	0	110	146255	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-10
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 03:29:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	56251	3	Standard
	Cl	**37**		ug/L			3935892	3907703	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	506726	2	Standard
|	**Cr**	**52**	**12.065**	ug/L	0.186	1	14729	233829	1	Standard
⌊	**Cr**	**53**	**12.746**	ug/L	0.278	2	130	27313	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	18287	4	KED
|	**Cu**	**63**	**9.579**	ug/L	0.357	3	35	19823	1	KED
|	**Cu**	**65**	**9.657**	ug/L	0.209	2	25	10004	2	KED
|	**Zn**	**66**	**26.844**	ug/L	0.364	1	24	7497	3	KED
|	**Zn**	**67**	**25.602**	ug/L	0.571	2	1	1209	5	KED
⌊	**As**	**75**	**3.222**	ug/L	0.058	1	7	459	5	KED
	Y	**89**		ug/L			261919	362772	2	Standard
	Kr	**83**		ug/L			60	84	19	Standard
⌈>	**In-1**	**115**		ug/L			7141	7660	3	KED
|	**Cd**	**111**	**0.277**	ug/L	0.030	10	2	69	8	KED
⌊	**Cd**	**114**	**0.239**	ug/L	0.020	8	3	143	9	KED
⌈>	**In**	**115**		ug/L			388851	368635	4	Standard
⌊	**Ag**	**107**	**0.111**	ug/L	0.005	4	59	1442	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	636185	3	Standard
⌊	**Pb**	**208**	**3.671**	ug/L	0.056	1	110	157172	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-11
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:33:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53431	1	Standard
	Cl	**37**		ug/L			3935892	3782257	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	477294	1	Standard
|	**Cr**	**52**	**9.806**	ug/L	0.132	1	14729	181660	2	Standard
⌊	**Cr**	**53**	**10.342**	ug/L	0.149	1	130	20901	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	19228	3	KED
|	**Cu**	**63**	**5.378**	ug/L	0.118	2	35	11727	4	KED
|	**Cu**	**65**	**5.396**	ug/L	0.134	2	25	5886	1	KED
|	**Zn**	**66**	**23.235**	ug/L	0.251	1	24	6830	4	KED
|	**Zn**	**67**	**22.465**	ug/L	0.166	0	1	1116	4	KED
⌊	**As**	**75**	**3.058**	ug/L	0.056	1	7	459	5	KED
	Y	**89**		ug/L			261919	337631	2	Standard
	Kr	**83**		ug/L			60	83	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7769	0	KED
|	**Cd**	**111**	**0.275**	ug/L	0.009	3	2	69	4	KED
⌊	**Cd**	**114**	**0.253**	ug/L	0.034	13	3	153	12	KED
⌈>	**In**	**115**		ug/L			388851	356054	1	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	5	59	465	6	Standard
⌈>	**Tb**	**159**		ug/L			618478	617888	2	Standard
⌊	**Pb**	**208**	**3.470**	ug/L	0.050	1	110	144322	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:36:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	29827	1	Standard
	Cl	**37**		ug/L			3935892	3549098	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	427770	6	Standard
|	**Cr**	**52**	**0.050**	ug/L	0.002	3	14729	13154	6	Standard
⌊	**Cr**	**53**	**0.767**	ug/L	0.042	5	130	1488	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19184	3	KED
|	**Cu**	**63**	**0.004**	ug/L	0.005	130	35	34	30	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.001	20	25	13	7	KED
|	**Zn**	**66**	**0.029**	ug/L	0.040	135	24	27	44	KED
|	**Zn**	**67**	**0.049**	ug/L	0.041	83	1	3	50	KED
⌊	**As**	**75**	**0.001**	ug/L	0.014	1315	7	5	36	KED
	Y	**89**		ug/L			261919	232348	5	Standard
	Kr	**83**		ug/L			60	42	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7944	3	KED
|	**Cd**	**111**	**0.010**	ug/L	0.007	68	2	5	28	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	180	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	351005	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.002	130	59	40	43	Standard
⌈>	**Tb**	**159**		ug/L			618478	591446	6	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	293	110	113	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:40:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	32239	2	Standard
	Cl	**37**		ug/L			3935892	4033391	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	462611	0	Standard
|	**Cr**	**52**	**50.473**	ug/L	0.748	1	14729	850626	1	Standard
⌊	**Cr**	**53**	**50.391**	ug/L	0.491	0	130	98269	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18506	5	KED
|	**Cu**	**63**	**55.410**	ug/L	2.789	5	35	115830	0	KED
|	**Cu**	**65**	**54.895**	ug/L	1.413	2	25	57447	3	KED
|	**Zn**	**66**	**50.816**	ug/L	0.279	0	24	14348	5	KED
|	**Zn**	**67**	**51.885**	ug/L	1.576	3	1	2477	4	KED
⌊	**As**	**75**	**51.142**	ug/L	1.266	2	7	7294	3	KED
	Y	**89**		ug/L			261919	254210	0	Standard
	Kr	**83**		ug/L			60	46	29	Standard
⌈>	**In-1**	**115**		ug/L			7141	7967	3	KED
|	**Cd**	**111**	**48.010**	ug/L	0.504	1	2	11962	3	KED
⌊	**Cd**	**114**	**47.306**	ug/L	0.817	1	3	28658	3	KED
⌈>	**In**	**115**		ug/L			388851	370041	2	Standard
⌊	**Ag**	**107**	**51.551**	ug/L	1.686	3	59	643125	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	628484	1	Standard
⌊	**Pb**	**208**	**49.578**	ug/L	0.461	0	110	2096185	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:46:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	32559	1	Standard
	Cl	**37**		ug/L			3935892	3777445	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	465322	2	Standard
|	**Cr**	**52**	**0.044**	ug/L	0.022	50	14729	14202	3	Standard
⌊	**Cr**	**53**	**0.627**	ug/L	0.009	1	130	1347	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	16137	5	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.002	41	35	11	33	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.005	67	25	8	49	KED
|	**Zn**	**66**	**-0.030**	ug/L	0.011	36	24	8	35	KED
|	**Zn**	**67**	**0.017**	ug/L	0.003	14	1	1		KED
⌊	**As**	**75**	**0.001**	ug/L	0.021	1914	7	4	52	KED
	Y	**89**		ug/L			261919	244745	3	Standard
	Kr	**83**		ug/L			60	54	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7782	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	260	2	2	57	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	219	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	369783	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	241	59	62	22	Standard
⌈>	**Tb**	**159**		ug/L			618478	609718	3	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.001	236	110	90	42	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:49:28

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53767	2	Standard
	Cl	**37**		ug/L			3935892	3931066	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	498640	3	Standard
|	**Cr**	**52**	**8.863**	ug/L	0.079	0	14729	172903	3	Standard
⌊	**Cr**	**53**	**9.494**	ug/L	0.035	0	130	20062	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18465	5	KED
|	**Cu**	**63**	**33.966**	ug/L	1.270	3	35	70915	3	KED
|	**Cu**	**65**	**34.172**	ug/L	0.705	2	25	35696	3	KED
|	**Zn**	**66**	**20.170**	ug/L	0.655	3	24	5688	2	KED
|	**Zn**	**67**	**18.470**	ug/L	2.287	12	1	877	6	KED
⌊	**As**	**75**	**2.871**	ug/L	0.135	4	7	413	5	KED
	Y	**89**		ug/L			261919	358018	4	Standard
	Kr	**83**		ug/L			60	81	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7671	0	KED
|	**Cd**	**111**	**0.200**	ug/L	0.051	25	2	51	23	KED
⌊	**Cd**	**114**	**0.219**	ug/L	0.037	16	3	131	16	KED
⌈>	**In**	**115**		ug/L			388851	368835	3	Standard
⌊	**Ag**	**107**	**0.027**	ug/L	0.004	15	59	387	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	627256	5	Standard
⌊	**Pb**	**208**	**2.747**	ug/L	0.057	2	110	115959	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:52:48

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38251	3	Standard
	Cl	**37**		ug/L			3935892	3984346	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	524918	1	Standard
|	**Cr**	**52**	**8.661**	ug/L	0.135	1	14729	178221	2	Standard
⌊	**Cr**	**53**	**9.148**	ug/L	0.249	2	130	20346	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	17528	4	KED
|	**Cu**	**63**	**4.315**	ug/L	0.128	2	35	8577	3	KED
|	**Cu**	**65**	**4.441**	ug/L	0.057	1	25	4421	3	KED
|	**Zn**	**66**	**20.119**	ug/L	0.741	3	24	5394	6	KED
|	**Zn**	**67**	**18.542**	ug/L	0.633	3	1	839	2	KED
⌊	**As**	**75**	**2.882**	ug/L	0.059	2	7	394	5	KED
	Y	**89**		ug/L			261919	360591	1	Standard
	Kr	**83**		ug/L			60	84	17	Standard
⌈>	**In-1**	**115**		ug/L			7141	7899	5	KED
|	**Cd**	**111**	**0.227**	ug/L	0.028	12	2	59	15	KED
⌊	**Cd**	**114**	**0.213**	ug/L	0.029	13	3	131	11	KED
⌈>	**In**	**115**		ug/L			388851	383690	2	Standard
⌊	**Ag**	**107**	**0.032**	ug/L	0.002	5	59	473	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	641290	2	Standard
⌊	**Pb**	**208**	**2.975**	ug/L	0.073	2	110	128419	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:56:09

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54349	2	Standard
	Cl	**37**		ug/L			3935892	3857211	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	478592	2	Standard
|	**Cr**	**52**	**9.996**	ug/L	0.060	0	14729	185391	1	Standard
⌊	**Cr**	**53**	**10.499**	ug/L	0.068	0	130	21279	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18997	6	KED
|	**Cu**	**63**	**4.685**	ug/L	0.105	2	35	10088	5	KED
|	**Cu**	**65**	**4.745**	ug/L	0.078	1	25	5115	5	KED
|	**Zn**	**66**	**20.524**	ug/L	0.834	4	24	5952	4	KED
|	**Zn**	**67**	**19.569**	ug/L	0.835	4	1	960	7	KED
⌊	**As**	**75**	**2.910**	ug/L	0.090	3	7	432	9	KED
	Y	**89**		ug/L			261919	337270	0	Standard
	Kr	**83**		ug/L			60	66	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7899	2	KED
|	**Cd**	**111**	**0.217**	ug/L	0.006	2	2	56	0	KED
⌊	**Cd**	**114**	**0.251**	ug/L	0.030	12	3	154	14	KED
⌈>	**In**	**115**		ug/L			388851	355643	1	Standard
⌊	**Ag**	**107**	**0.030**	ug/L	0.004	13	59	419	13	Standard
⌈>	**Tb**	**159**		ug/L			618478	612011	2	Standard
⌊	**Pb**	**208**	**3.192**	ug/L	0.070	2	110	131486	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:59:30

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53372	1	Standard
	Cl	**37**		ug/L			3935892	3994721	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	519026	4	Standard
|	**Cr**	**52**	**10.036**	ug/L	0.274	2	14729	201777	4	Standard
⌊	**Cr**	**53**	**10.138**	ug/L	0.424	4	130	22272	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18455	4	KED
|	**Cu**	**63**	**5.127**	ug/L	0.149	2	35	10723	1	KED
|	**Cu**	**65**	**5.120**	ug/L	0.171	3	25	5361	2	KED
|	**Zn**	**66**	**22.713**	ug/L	0.793	3	24	6411	7	KED
|	**Zn**	**67**	**20.811**	ug/L	1.364	6	1	991	4	KED
⌊	**As**	**75**	**2.945**	ug/L	0.100	3	7	424	7	KED
	Y	**89**		ug/L			261919	356728	2	Standard
	Kr	**83**		ug/L			60	82	17	Standard
⌈>	**In-1**	**115**		ug/L			7141	7733	2	KED
|	**Cd**	**111**	**0.236**	ug/L	0.035	14	2	60	13	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.013	5	3	147	3	KED
⌈>	**In**	**115**		ug/L			388851	376766	3	Standard
⌊	**Ag**	**107**	**0.032**	ug/L	0.002	6	59	466	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	633262	4	Standard
⌊	**Pb**	**208**	**3.272**	ug/L	0.072	2	110	139425	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-16
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 04:02:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52834	2	Standard
	Cl	**37**		ug/L			3935892	4116039	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	539603	1	Standard
|	**Cr**	**52**	**12.719**	ug/L	0.089	0	14729	261725	1	Standard
⌊	**Cr**	**53**	**13.270**	ug/L	0.335	2	130	30288	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18879	4	KED
|	**Cu**	**63**	**5.949**	ug/L	0.168	2	35	12723	2	KED
|	**Cu**	**65**	**5.963**	ug/L	0.094	1	25	6385	3	KED
|	**Zn**	**66**	**78.769**	ug/L	1.874	2	24	22668	2	KED
|	**Zn**	**67**	**72.928**	ug/L	1.118	1	1	3555	5	KED
⌊	**As**	**75**	**5.791**	ug/L	0.022	0	7	848	4	KED
	Y	**89**		ug/L			261919	395646	1	Standard
	Kr	**83**		ug/L			60	88	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7626	0	KED
|	**Cd**	**111**	**0.297**	ug/L	0.034	11	2	73	11	KED
⌊	**Cd**	**114**	**0.273**	ug/L	0.056	20	3	162	20	KED
⌈>	**In**	**115**		ug/L			388851	367750	3	Standard
⌊	**Ag**	**107**	**0.050**	ug/L	0.002	4	59	670	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	637006	2	Standard
⌊	**Pb**	**208**	**4.624**	ug/L	0.136	2	110	198180	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-17
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 04:06:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54653	2	Standard
	Cl	**37**		ug/L			3935892	4105182	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	540722	5	Standard
|	**Cr**	**52**	**12.079**	ug/L	0.261	2	14729	250020	7	Standard
⌊	**Cr**	**53**	**12.334**	ug/L	0.102	0	130	28218	5	Standard
⌈>	**Ge**	**72**		ug/L			25706	18467	4	KED
|	**Cu**	**63**	**12.927**	ug/L	0.210	1	35	27030	3	KED
|	**Cu**	**65**	**12.837**	ug/L	0.435	3	25	13419	1	KED
|	**Zn**	**66**	**37.834**	ug/L	0.644	1	24	10664	3	KED
|	**Zn**	**67**	**34.194**	ug/L	0.931	2	1	1631	6	KED
⌊	**As**	**75**	**4.757**	ug/L	0.133	2	7	682	2	KED
	Y	**89**		ug/L			261919	383562	5	Standard
	Kr	**83**		ug/L			60	83	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7490	2	KED
|	**Cd**	**111**	**0.223**	ug/L	0.014	6	2	55	5	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.011	4	3	142	6	KED
⌈>	**In**	**115**		ug/L			388851	372779	4	Standard
⌊	**Ag**	**107**	**0.039**	ug/L	0.001	3	59	551	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	635151	5	Standard
⌊	**Pb**	**208**	**3.619**	ug/L	0.061	1	110	154695	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-18
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 04:09:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54613	0	Standard
	Cl	**37**		ug/L			3935892	4079084	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	526219	1	Standard
|	**Cr**	**52**	**12.488**	ug/L	0.084	0	14729	250854	0	Standard
⌊	**Cr**	**53**	**12.578**	ug/L	0.117	0	130	28000	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	18889	4	KED
|	**Cu**	**63**	**6.138**	ug/L	0.168	2	35	13141	4	KED
|	**Cu**	**65**	**6.195**	ug/L	0.211	3	25	6637	4	KED
|	**Zn**	**66**	**42.290**	ug/L	1.568	3	24	12181	0	KED
|	**Zn**	**67**	**39.628**	ug/L	2.292	5	1	1931	5	KED
⌊	**As**	**75**	**5.686**	ug/L	0.144	2	7	833	3	KED
	Y	**89**		ug/L			261919	379360	1	Standard
	Kr	**83**		ug/L			60	75	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	7611	0	KED
|	**Cd**	**111**	**0.278**	ug/L	0.058	21	2	69	20	KED
⌊	**Cd**	**114**	**0.245**	ug/L	0.024	9	3	145	9	KED
⌈>	**In**	**115**		ug/L			388851	361300	2	Standard
⌊	**Ag**	**107**	**0.046**	ug/L	0.002	3	59	615	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	617962	1	Standard
⌊	**Pb**	**208**	**4.088**	ug/L	0.040	0	110	170065	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-19
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 04:12:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	56444	3	Standard
	Cl	**37**		ug/L			3935892	4097287	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	547304	3	Standard
|	**Cr**	**52**	**13.736**	ug/L	0.108	0	14729	285364	2	Standard
⌊	**Cr**	**53**	**13.895**	ug/L	0.313	2	130	32145	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19026	4	KED
|	**Cu**	**63**	**6.791**	ug/L	0.865	12	35	14675	15	KED
|	**Cu**	**65**	**6.865**	ug/L	0.893	13	25	7422	15	KED
|	**Zn**	**66**	**41.984**	ug/L	0.316	0	24	12192	3	KED
|	**Zn**	**67**	**38.124**	ug/L	1.189	3	1	1873	5	KED
⌊	**As**	**75**	**6.127**	ug/L	0.050	0	7	904	4	KED
	Y	**89**		ug/L			261919	386678	2	Standard
	Kr	**83**		ug/L			60	95	26	Standard
⌈>	**In-1**	**115**		ug/L			7141	7577	0	KED
|	**Cd**	**111**	**0.258**	ug/L	0.024	9	2	64	8	KED
⌊	**Cd**	**114**	**0.276**	ug/L	0.002	0	3	163	1	KED
⌈>	**In**	**115**		ug/L			388851	362836	1	Standard
⌊	**Ag**	**107**	**0.053**	ug/L	0.003	4	59	700	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	623269	1	Standard
⌊	**Pb**	**208**	**4.395**	ug/L	0.070	1	110	184415	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-20
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 04:16:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	55971	2	Standard
	Cl	**37**		ug/L			3935892	4208511	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	547082	2	Standard
|	**Cr**	**52**	**12.921**	ug/L	0.209	1	14729	269332	3	Standard
⌊	**Cr**	**53**	**13.120**	ug/L	0.362	2	130	30354	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19148	4	KED
|	**Cu**	**63**	**5.286**	ug/L	0.206	3	35	11464	0	KED
|	**Cu**	**65**	**5.335**	ug/L	0.267	5	25	5790	0	KED
|	**Zn**	**66**	**34.872**	ug/L	0.775	2	24	10189	2	KED
|	**Zn**	**67**	**34.124**	ug/L	0.857	2	1	1687	3	KED
⌊	**As**	**75**	**4.450**	ug/L	0.163	3	7	662	4	KED
	Y	**89**		ug/L			261919	379850	1	Standard
	Kr	**83**		ug/L			60	97	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	8187	0	KED
|	**Cd**	**111**	**0.225**	ug/L	0.012	5	2	60	5	KED
⌊	**Cd**	**114**	**0.213**	ug/L	0.035	16	3	136	16	KED
⌈>	**In**	**115**		ug/L			388851	373826	2	Standard
⌊	**Ag**	**107**	**0.042**	ug/L	0.002	3	59	590	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	623887	2	Standard
⌊	**Pb**	**208**	**3.505**	ug/L	0.016	0	110	147227	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:19:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36131	2	Standard
	Cl	**37**		ug/L			3935892	4029611	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	494404	3	Standard
|	**Cr**	**52**	**0.012**	ug/L	0.017	144	14729	14511	1	Standard
⌊	**Cr**	**53**	**0.347**	ug/L	0.023	6	130	848	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18504	5	KED
|	**Cu**	**63**	**0.006**	ug/L	0.004	65	35	38	18	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.013	518	25	15	90	KED
|	**Zn**	**66**	**0.002**	ug/L	0.011	489	24	18	15	KED
|	**Zn**	**67**	**0.093**	ug/L	0.087	92	1	5	66	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.006	254	7	5	19	KED
	Y	**89**		ug/L			261919	259304	3	Standard
	Kr	**83**		ug/L			60	52	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7531	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.004	111	2	3	25	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.015	236	3	7	111	KED
⌈>	**In**	**115**		ug/L			388851	393904	3	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	15	59	33	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	621123	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	160	110	131	24	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:22:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35362	3	Standard
	Cl	**37**		ug/L			3935892	4231043	3	Standard
>	**Sc**	**45**		ug/L			508823	493577	4	Standard
	Cr	**52**	**49.083**	ug/L	0.661	1	14729	882835	4	Standard
	Cr	**53**	**49.041**	ug/L	0.657	1	130	102047	5	Standard
>	**Ge**	**72**		ug/L			25706	18460	6	KED
	Cu	**63**	**59.107**	ug/L	1.870	3	35	123328	2	KED
	Cu	**65**	**57.581**	ug/L	2.332	4	25	60067	1	KED
	Zn	**66**	**54.866**	ug/L	1.313	2	24	15441	3	KED
	Zn	**67**	**54.256**	ug/L	1.386	2	1	2586	6	KED
	As	**75**	**52.208**	ug/L	0.255	0	7	7433	5	KED
	Y	**89**		ug/L			261919	257094	3	Standard
	Kr	**83**		ug/L			60	67	13	Standard
>	**In-1**	**115**		ug/L			7141	7549	2	KED
	Cd	**111**	**49.823**	ug/L	0.725	1	2	11761	0	KED
	Cd	**114**	**49.496**	ug/L	0.980	1	3	28407	0	KED
>	**In**	**115**		ug/L			388851	378296	3	Standard
	Ag	**107**	**50.703**	ug/L	1.395	2	59	646808	3	Standard
>	**Tb**	**159**		ug/L			618478	611644	3	Standard
	Pb	**208**	**51.216**	ug/L	0.698	1	110	2107525	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:29:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35789	0	Standard
	Cl	**37**		ug/L			3935892	3974937	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	486489	3	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.012	85	14729	14330	2	Standard
⌊	**Cr**	**53**	**0.335**	ug/L	0.010	2	130	809	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	17916	4	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	147	35	20	32	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.001	36	25	14	7	KED
|	**Zn**	**66**	**-0.019**	ug/L	0.016	79	24	12	39	KED
|	**Zn**	**67**	**0.027**	ug/L	0.064	233	1	2	114	KED
⌊	**As**	**75**	**0.002**	ug/L	0.008	309	7	5	21	KED
	Y	**89**		ug/L			261919	251168	2	Standard
	Kr	**83**		ug/L			60	40	23	Standard
⌈>	**In-1**	**115**		ug/L			7141	7509	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.010	1174	2	3	69	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.009	290	3	5	89	KED
⌈>	**In**	**115**		ug/L			388851	376371	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	94	59	64	10	Standard
⌈>	**Tb**	**159**		ug/L			618478	609475	2	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	49	110	93	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:32:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39255	2	Standard
	Cl	**37**		ug/L			3935892	4167603	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	558656	4	Standard
|	**Cr**	**52**	**0.071**	ug/L	0.014	20	14729	17591	4	Standard
⌊	**Cr**	**53**	**0.267**	ug/L	0.009	3	130	771	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18375	5	KED
|	**Cu**	**63**	**0.006**	ug/L	0.003	52	35	38	20	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.003	57	25	12	22	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.036	778	24	16	65	KED
|	**Zn**	**67**	**0.026**	ug/L	0.027	103	1	2	43	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.012	416	7	4	33	KED
	Y	**89**		ug/L			261919	290172	4	Standard
	Kr	**83**		ug/L			60	52	21	Standard
⌈>	**In-1**	**115**		ug/L			7141	8085	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	78	2	2	21	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.000	5	3	5	0	KED
⌈>	**In**	**115**		ug/L			388851	408997	4	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.002	387	59	68	33	Standard
⌈>	**Tb**	**159**		ug/L			618478	658175	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	49	110	161	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:35:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38182	2	Standard
	Cl	**37**		ug/L			3935892	4187240	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	583490	1	Standard
|	**Cr**	**52**	**0.040**	ug/L	0.010	25	14729	17719	2	Standard
⌊	**Cr**	**53**	**0.243**	ug/L	0.007	3	130	747	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19517	4	KED
|	**Cu**	**63**	**0.001**	ug/L	0.005	862	35	27	34	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.004	89	25	14	30	KED
|	**Zn**	**66**	**-0.006**	ug/L	0.004	78	24	17	11	KED
|	**Zn**	**67**	**0.047**	ug/L	0.039	82	1	3	50	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.004	492	7	5	13	KED
	Y	**89**		ug/L			261919	296408	1	Standard
	Kr	**83**		ug/L			60	69	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	8165	4	KED
|	**Cd**	**111**	**0.005**	ug/L	0.009	198	2	4	53	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.000	13	3	5	1	KED
⌈>	**In**	**115**		ug/L			388851	417711	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	317	59	58	31	Standard
⌈>	**Tb**	**159**		ug/L			618478	665365	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	63	110	144	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:39:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39750	3	Standard
	Cl	**37**		ug/L			3935892	4218484	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	579532	1	Standard
|	**Cr**	**52**	**0.048**	ug/L	0.017	35	14729	17768	2	Standard
⌊	**Cr**	**53**	**0.221**	ug/L	0.001	0	130	688	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19411	4	KED
|	**Cu**	**63**	**0.005**	ug/L	0.004	76	35	37	20	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.003	94	25	15	18	KED
|	**Zn**	**66**	**-0.012**	ug/L	0.015	123	24	15	33	KED
|	**Zn**	**67**	**0.023**	ug/L	0.045	194	1	2	86	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.013	764	7	5	36	KED
	Y	**89**		ug/L			261919	304191	2	Standard
	Kr	**83**		ug/L			60	65	1	Standard
⌈>	**In-1**	**115**		ug/L			7141	8096	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.006	553	2	3	41	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.008	838	3	3	137	KED
⌈>	**In**	**115**		ug/L			388851	426597	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	28	59	46	10	Standard
⌈>	**Tb**	**159**		ug/L			618478	670699	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	48	110	150	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:42:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37932	1	Standard
	Cl	**37**		ug/L			3935892	3835604	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	490492	1	Standard
|	**Cr**	**52**	**-0.034**	ug/L	0.024	70	14729	13610	3	Standard
⌊	**Cr**	**53**	**0.263**	ug/L	0.011	4	130	669	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18256	4	KED
|	**Cu**	**63**	**0.004**	ug/L	0.005	127	35	33	28	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.005	170	25	15	33	KED
|	**Zn**	**66**	**0.120**	ug/L	0.040	33	24	50	21	KED
|	**Zn**	**67**	**0.133**	ug/L	0.008	5	1	7	0	KED
⌊	**As**	**75**	**0.001**	ug/L	0.011	1112	7	5	25	KED
	Y	**89**		ug/L			261919	249996	2	Standard
	Kr	**83**		ug/L			60	48	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	7163	0	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.007	86975	2	2	57	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	180	3	4	44	KED
⌈>	**In**	**115**		ug/L			388851	378838	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	42	59	40	20	Standard
⌈>	**Tb**	**159**		ug/L			618478	596430	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	11	110	57	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:45:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39350	2	Standard
	Cl	**37**		ug/L			3935892	3901739	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	494241	2	Standard
|	**Cr**	**52**	**-0.037**	ug/L	0.013	34	14729	13657	3	Standard
⌊	**Cr**	**53**	**0.275**	ug/L	0.012	4	130	698	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	17631	2	KED
|	**Cu**	**63**	**0.003**	ug/L	0.004	109	35	31	21	KED
|	**Cu**	**65**	**0.000**	ug/L	0.009	2201	25	17	49	KED
|	**Zn**	**66**	**0.031**	ug/L	0.044	143	24	25	48	KED
|	**Zn**	**67**	**0.027**	ug/L	0.024	87	1	2	43	KED
⌊	**As**	**75**	**0.002**	ug/L	0.014	633	7	5	33	KED
	Y	**89**		ug/L			261919	248488	2	Standard
	Kr	**83**		ug/L			60	51	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7183	3	KED
|	**Cd**	**111**	**0.013**	ug/L	0.006	50	2	5	28	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.011	241	3	6	97	KED
⌈>	**In**	**115**		ug/L			388851	378376	2	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	2	59	30	0	Standard
⌈>	**Tb**	**159**		ug/L			618478	587861	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	5	110	58	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:49:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	40232	1	Standard
	Cl	**37**		ug/L			3935892	3860857	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	494660	2	Standard
|	**Cr**	**52**	**-0.040**	ug/L	0.017	41	14729	13612	2	Standard
⌊	**Cr**	**53**	**0.262**	ug/L	0.018	6	130	673	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18347	4	KED
|	**Cu**	**63**	**0.001**	ug/L	0.004	367	35	27	33	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.008	225	25	14	52	KED
|	**Zn**	**66**	**0.039**	ug/L	0.014	35	24	28	13	KED
|	**Zn**	**67**	**0.094**	ug/L	0.084	88	1	5	66	KED
⌊	**As**	**75**	**0.007**	ug/L	0.009	124	7	6	17	KED
	Y	**89**		ug/L			261919	251181	1	Standard
	Kr	**83**		ug/L			60	47	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7421	3	KED
|	**Cd**	**111**	**0.002**	ug/L	0.008	373	2	3	56	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.007	531	3	3	125	KED
⌈>	**In**	**115**		ug/L			388851	371104	1	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.001	29	59	35	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	591821	0	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	2	110	40	4	Standard

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Control Limt: +/- 10.00%
Sequence: SLA0097

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0097-ICV1	Chromium-52	50.000	49.8	99.6	ug/L	EPA 6020B
	Chromium-53	50.000	49.5	98.9	ug/L	EPA 6020B
	Lead-208	50.000	49.8	99.5	ug/L	EPA 6020B
SLA0097-CCV1	Chromium-52	50.000	50.2	100	ug/L	EPA 6020B
	Chromium-53	50.000	49.2	98.3	ug/L	EPA 6020B
	Lead-208	50.000	49.2	98.4	ug/L	EPA 6020B
SLA0097-CCV2	Chromium-52	50.000	48.9	97.7	ug/L	EPA 6020B
	Chromium-53	50.000	49.1	98.2	ug/L	EPA 6020B
	Lead-208	50.000	49.9	99.8	ug/L	EPA 6020B
SLA0097-CCV3	Chromium-52	50.000	49.3	98.5	ug/L	EPA 6020B
	Chromium-53	50.000	49.7	99.5	ug/L	EPA 6020B
	Lead-208	50.000	51.0	102	ug/L	EPA 6020B
SLA0097-CCV4	Chromium-52	50.000	51.6	103	ug/L	EPA 6020B
	Chromium-53	50.000	51.4	103	ug/L	EPA 6020B
	Lead-208	50.000	51.7	103	ug/L	EPA 6020B
SLA0097-CCV5	Chromium-52	50.000	49.9	99.7	ug/L	EPA 6020B
	Chromium-53	50.000	50.1	100	ug/L	EPA 6020B
	Lead-208	50.000	50.2	100	ug/L	EPA 6020B
SLA0097-CCV6	Chromium-52	50.000	49.9	99.8	ug/L	EPA 6020B
	Chromium-53	50.000	49.7	99.5	ug/L	EPA 6020B
	Lead-208	50.000	49.8	99.7	ug/L	EPA 6020B
SLA0097-CCV7	Chromium-52	50.000	50.1	100	ug/L	EPA 6020B
	Chromium-53	50.000	49.3	98.6	ug/L	EPA 6020B
	Lead-208	50.000	49.9	99.8	ug/L	EPA 6020B
SLA0097-CCV8	Chromium-52	50.000	49.6	99.3	ug/L	EPA 6020B
	Chromium-53	50.000	48.6	97.3	ug/L	EPA 6020B
	Lead-208	50.000	50.4	101	ug/L	EPA 6020B
SLA0097-CCV9	Chromium-52	50.000	50.5	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	52.1	104	ug/L	EPA 6020B
SLA0097-CCVA	Chromium-52	50.000	50.4	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.2	100	ug/L	EPA 6020B
	Lead-208	50.000	52.0	104	ug/L	EPA 6020B
SLA0097-CCVB	Chromium-52	50.000	50.9	102	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Control Limt: +/- 10.00%

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00024
Sequence: SLA0097

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0097-CCVB	Chromium-53	50.000	50.1	100	ug/L	EPA 6020B
	Lead-208	50.000	52.4	105	ug/L	EPA 6020B
SLA0097-CCVC	Chromium-52	50.000	50.3	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.8	102	ug/L	EPA 6020B
	Lead-208	50.000	53.3	107	ug/L	EPA 6020B
SLA0097-CCVD	Chromium-52	50.000	50.3	101	ug/L	EPA 6020B
	Chromium-53	50.000	51.0	102	ug/L	EPA 6020B
	Lead-208	50.000	53.2	106	ug/L	EPA 6020B
SLA0097-CCVE	Chromium-52	50.000	51.0	102	ug/L	EPA 6020B
	Chromium-53	50.000	51.2	102	ug/L	EPA 6020B
	Lead-208	50.000	53.8	108	ug/L	EPA 6020B
SLA0097-CCVF	Chromium-52	50.000	50.3	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.1	100	ug/L	EPA 6020B
	Lead-208	50.000	53.9	108	ug/L	EPA 6020B
SLA0097-CCVG	Chromium-52	50.000	51.5	103	ug/L	EPA 6020B
	Chromium-53	50.000	51.1	102	ug/L	EPA 6020B
	Lead-208	50.000	54.6	109	ug/L	EPA 6020B
SLA0097-CCVH	Chromium-52	50.000	50.7	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.5	101	ug/L	EPA 6020B
	Lead-208	50.000	54.6	109	ug/L	EPA 6020B
SLA0097-CCVI	Chromium-52	50.000	51.5	103	ug/L	EPA 6020B
	Chromium-53	50.000	51.7	103	ug/L	EPA 6020B
	Lead-208	50.000	55.0	110	ug/L	EPA 6020B
SLA0097-CCVJ	Chromium-52	50.000	50.1	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.4	101	ug/L	EPA 6020B
	Lead-208	50.000	54.3	109	ug/L	EPA 6020B
SLA0097-CCVK	Chromium-52	50.000	51.1	102	ug/L	EPA 6020B
	Chromium-53	50.000	51.3	103	ug/L	EPA 6020B
	Lead-208	50.000	52.0	104	ug/L	EPA 6020B
SLA0097-CCVL	Chromium-52	50.000	51.1	102	ug/L	EPA 6020B
	Chromium-53	50.000	51.1	102	ug/L	EPA 6020B
	Lead-208	50.000	52.2	104	ug/L	EPA 6020B
SLA0097-CCVM	Chromium-52	50.000	50.4	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Control Limt: +/- 10.00%
Sequence: SLA0097

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0097-CCVM	Lead-208	50.000	52.5	105	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Control Limt: +/- 10.00%
Sequence: SLA0147

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0147-ICV1	Chromium-52	50.000	48.2	96.5	ug/L	EPA 6020B
	Chromium-53	50.000	47.8	95.5	ug/L	EPA 6020B
	Lead-208	50.000	49.7	99.4	ug/L	EPA 6020B
	Silver-107	50.000	51.6	103	ug/L	EPA 6020B
SLA0147-CCV1	Chromium-52	50.000	49.7	99.4	ug/L	EPA 6020B
	Chromium-53	50.000	49.0	98.0	ug/L	EPA 6020B
	Lead-208	50.000	49.6	99.2	ug/L	EPA 6020B
	Silver-107	50.000	49.9	99.8	ug/L	EPA 6020B
SLA0147-CCV2	Chromium-52	50.000	49.5	99.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.6	97.1	ug/L	EPA 6020B
	Lead-208	50.000	50.4	101	ug/L	EPA 6020B
	Silver-107	50.000	50.2	100	ug/L	EPA 6020B
SLA0147-CCV3	Chromium-52	50.000	49.9	99.8	ug/L	EPA 6020B
	Chromium-53	50.000	49.8	99.6	ug/L	EPA 6020B
	Lead-208	50.000	49.8	99.6	ug/L	EPA 6020B
	Silver-107	50.000	50.8	102	ug/L	EPA 6020B
SLA0147-CCV4	Chromium-52	50.000	48.8	97.7	ug/L	EPA 6020B
	Chromium-53	50.000	48.1	96.2	ug/L	EPA 6020B
	Lead-208	50.000	50.7	101	ug/L	EPA 6020B
	Silver-107	50.000	49.0	98.0	ug/L	EPA 6020B
SLA0147-CCV5	Chromium-52	50.000	48.5	97.1	ug/L	EPA 6020B
	Chromium-53	50.000	48.0	96.1	ug/L	EPA 6020B
	Lead-208	50.000	50.7	101	ug/L	EPA 6020B
	Silver-107	50.000	49.5	99.0	ug/L	EPA 6020B
SLA0147-CCV6	Chromium-52	50.000	50.1	100	ug/L	EPA 6020B
	Chromium-53	50.000	48.6	97.1	ug/L	EPA 6020B
	Lead-208	50.000	49.5	99.0	ug/L	EPA 6020B
	Silver-107	50.000	50.0	100	ug/L	EPA 6020B
SLA0147-CCV7	Chromium-52	50.000	49.2	98.5	ug/L	EPA 6020B
	Chromium-53	50.000	48.8	97.6	ug/L	EPA 6020B
	Lead-208	50.000	49.4	98.8	ug/L	EPA 6020B
	Silver-107	50.000	49.6	99.2	ug/L	EPA 6020B
SLA0147-CCV8	Chromium-52	50.000	50.9	102	ug/L	EPA 6020B
	Chromium-53	50.000	50.1	100	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Control Limt: +/- 10.00%
Sequence: SLA0147

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0147-CCV8	Lead-208	50.000	52.5	105	ug/L	EPA 6020B
	Silver-107	50.000	50.9	102	ug/L	EPA 6020B
SLA0147-CCV9	Chromium-52	50.000	49.0	98.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.3	96.6	ug/L	EPA 6020B
	Lead-208	50.000	50.3	101	ug/L	EPA 6020B
	Silver-107	50.000	50.1	100	ug/L	EPA 6020B
SLA0147-CCVA	Chromium-52	50.000	48.9	97.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.9	ug/L	EPA 6020B
	Lead-208	50.000	51.4	103	ug/L	EPA 6020B
	Silver-107	50.000	50.4	101	ug/L	EPA 6020B
SLA0147-CCVB	Chromium-52	50.000	49.0	98.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.6	97.2	ug/L	EPA 6020B
	Lead-208	50.000	51.1	102	ug/L	EPA 6020B
	Silver-107	50.000	50.0	100	ug/L	EPA 6020B
SLA0147-CCVC	Chromium-52	50.000	48.8	97.7	ug/L	EPA 6020B
	Chromium-53	50.000	48.8	97.6	ug/L	EPA 6020B
	Lead-208	50.000	52.5	105	ug/L	EPA 6020B
	Silver-107	50.000	49.7	99.3	ug/L	EPA 6020B
SLA0147-CCVD	Chromium-52	50.000	50.7	101	ug/L	EPA 6020B
	Chromium-53	50.000	52.3	105	ug/L	EPA 6020B
	Lead-208	50.000	48.2	96.4	ug/L	EPA 6020B
	Silver-107	50.000	52.1	104	ug/L	EPA 6020B
SLA0147-CCVE	Chromium-52	50.000	50.5	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.4	101	ug/L	EPA 6020B
	Lead-208	50.000	49.6	99.2	ug/L	EPA 6020B
	Silver-107	50.000	51.6	103	ug/L	EPA 6020B
SLA0147-CCVF	Chromium-52	50.000	49.1	98.2	ug/L	EPA 6020B
	Chromium-53	50.000	49.0	98.1	ug/L	EPA 6020B
	Lead-208	50.000	51.2	102	ug/L	EPA 6020B
	Silver-107	50.000	50.7	101	ug/L	EPA 6020B

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0097

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00024
Date Analyzed: 01/09/23 14:38

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0097-IBL1	Chromium-52	0.0330	0.26	0.500	ug/L	
SLA0097-IBL1	Chromium-53	-0.00700	0.239	0.500	ug/L	
SLA0097-IBL1	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0097-ICB1	Chromium-52	0.00700	0.26	0.500	ug/L	
SLA0097-ICB1	Chromium-53	-0.00300	0.239	0.500	ug/L	
SLA0097-ICB1	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0097-CCB1	Chromium-52	0.0100	0.26	0.500	ug/L	
SLA0097-CCB1	Chromium-53	-0.00700	0.239	0.500	ug/L	
SLA0097-CCB1	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0097-IBL2	Chromium-52	0.0280	0.26	0.500	ug/L	
SLA0097-IBL2	Chromium-53	0.0580	0.239	0.500	ug/L	
SLA0097-IBL2	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0097-CCB2	Chromium-52	-0.00200	0.26	0.500	ug/L	
SLA0097-CCB2	Chromium-53	0.0340	0.239	0.500	ug/L	
SLA0097-CCB2	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0097-IBL3	Chromium-52	0.0100	0.26	0.500	ug/L	
SLA0097-IBL3	Chromium-53	0.00800	0.239	0.500	ug/L	
SLA0097-IBL3	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0097-CCB3	Chromium-52	0.0140	0.26	0.500	ug/L	
SLA0097-CCB3	Chromium-53	0.00100	0.239	0.500	ug/L	
SLA0097-CCB3	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0097-IBL4	Chromium-52	-0.00200	0.26	0.500	ug/L	
SLA0097-IBL4	Chromium-53	0.0220	0.239	0.500	ug/L	
SLA0097-IBL4	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0097-CCB4	Chromium-52	0.0400	0.26	0.500	ug/L	
SLA0097-CCB4	Chromium-53	0.0160	0.239	0.500	ug/L	
SLA0097-CCB4	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0097-IBL5	Chromium-52	0.00900	0.26	0.500	ug/L	
SLA0097-IBL5	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLA0097-IBL5	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0097-CCB5	Chromium-52	-0.0140	0.26	0.500	ug/L	
SLA0097-CCB5	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLA0097-CCB5	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0097-CCB6	Chromium-52	0.0120	0.26	0.500	ug/L	
SLA0097-CCB6	Chromium-53	-0.00300	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0097

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00024
Date Analyzed: 01/09/23 20:01

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0097-CCB6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0097-CCB7	Chromium-52	0.00900	0.26	0.500	ug/L	
SLA0097-CCB7	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLA0097-CCB7	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0097-CCB8	Chromium-52	0.00800	0.26	0.500	ug/L	
SLA0097-CCB8	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLA0097-CCB8	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0097-CCB9	Chromium-52	0.0280	0.26	0.500	ug/L	
SLA0097-CCB9	Chromium-53	-0.00100	0.239	0.500	ug/L	
SLA0097-CCB9	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0097-CCBA	Chromium-52	-0.00800	0.26	0.500	ug/L	
SLA0097-CCBA	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLA0097-CCBA	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0097-IBL6	Chromium-52	0.0530	0.26	0.500	ug/L	
SLA0097-IBL6	Chromium-53	0.00500	0.239	0.500	ug/L	
SLA0097-IBL6	Lead-208	0.00300	0.0513	0.100	ug/L	
SLA0097-IBL7	Chromium-52	-0.00700	0.26	0.500	ug/L	
SLA0097-IBL7	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLA0097-IBL7	Lead-208	0.00600	0.0513	0.100	ug/L	
SLA0097-CCBB	Chromium-52	-0.00200	0.26	0.500	ug/L	
SLA0097-CCBB	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLA0097-CCBB	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0097-CCBC	Chromium-52	0.00300	0.26	0.500	ug/L	
SLA0097-CCBC	Chromium-53	-0.0100	0.239	0.500	ug/L	
SLA0097-CCBC	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0097-CCBD	Chromium-52	-0.00500	0.26	0.500	ug/L	
SLA0097-CCBD	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLA0097-CCBD	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0097-CCBE	Chromium-52	-0.00600	0.26	0.500	ug/L	
SLA0097-CCBE	Chromium-53	0.00	0.239	0.500	ug/L	
SLA0097-CCBE	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0097-CCBF	Chromium-52	0.0140	0.26	0.500	ug/L	
SLA0097-CCBF	Chromium-53	0.00100	0.239	0.500	ug/L	
SLA0097-CCBF	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0097-CCBG	Chromium-52	-0.0130	0.26	0.500	ug/L	
SLA0097-CCBG	Chromium-53	-0.00400	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0097

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00024
Date Analyzed: 01/10/23 04:31

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0097-CCBG	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0097-CCBH	Chromium-52	-0.0280	0.26	0.500	ug/L	
SLA0097-CCBH	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLA0097-CCBH	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0097-CCBI	Chromium-52	-0.0100	0.26	0.500	ug/L	
SLA0097-CCBI	Chromium-53	0.00600	0.239	0.500	ug/L	
SLA0097-CCBI	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0097-IBL8	Chromium-52	0.0210	0.26	0.500	ug/L	
SLA0097-IBL8	Chromium-53	0.0240	0.239	0.500	ug/L	
SLA0097-IBL8	Lead-208	0.00500	0.0513	0.100	ug/L	
SLA0097-CCBJ	Chromium-52	0.0180	0.26	0.500	ug/L	
SLA0097-CCBJ	Chromium-53	0.00900	0.239	0.500	ug/L	
SLA0097-CCBJ	Lead-208	0.00600	0.0513	0.100	ug/L	
SLA0097-IBL9	Chromium-52	0.0850	0.26	0.500	ug/L	
SLA0097-IBL9	Chromium-53	0.678	0.239	0.500	ug/L	
SLA0097-IBL9	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0097-CCBK	Chromium-52	0.0540	0.26	0.500	ug/L	
SLA0097-CCBK	Chromium-53	0.267	0.239	0.500	ug/L	
SLA0097-CCBK	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0097-CCBL	Chromium-52	0.0290	0.26	0.500	ug/L	
SLA0097-CCBL	Chromium-53	0.128	0.239	0.500	ug/L	
SLA0097-CCBL	Lead-208	0.00400	0.0513	0.100	ug/L	
SLA0097-CCBM	Chromium-52	0.0430	0.26	0.500	ug/L	
SLA0097-CCBM	Chromium-53	0.0550	0.239	0.500	ug/L	
SLA0097-CCBM	Lead-208	0.00400	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0147

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00033
Date Analyzed: 01/12/23 16:12

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0147-IBL1	Chromium-52	0.00300	0.26	0.500	ug/L	
SLA0147-IBL1	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLA0147-IBL1	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0147-IBL1	Silver-107	0.00600	0.022	0.200	ug/L	
SLA0147-ICB1	Chromium-52	-0.0150	0.26	0.500	ug/L	
SLA0147-ICB1	Chromium-53	-0.0110	0.239	0.500	ug/L	
SLA0147-ICB1	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLA0147-ICB1	Silver-107	0.00200	0.022	0.200	ug/L	
SLA0147-CCB1	Chromium-52	0.0140	0.26	0.500	ug/L	
SLA0147-CCB1	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLA0147-CCB1	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLA0147-CCB1	Silver-107	0.00400	0.022	0.200	ug/L	
SLA0147-IBL2	Chromium-52	-0.00200	0.26	0.500	ug/L	
SLA0147-IBL2	Chromium-53	0.0480	0.239	0.500	ug/L	
SLA0147-IBL2	Lead-208	0.00200	0.0513	0.100	ug/L	
SLA0147-IBL2	Silver-107	0.0110	0.022	0.200	ug/L	
SLA0147-CCB2	Chromium-52	-0.0170	0.26	0.500	ug/L	
SLA0147-CCB2	Chromium-53	0.0240	0.239	0.500	ug/L	
SLA0147-CCB2	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0147-CCB2	Silver-107	0.00300	0.022	0.200	ug/L	
SLA0147-IBL3	Chromium-52	-0.00100	0.26	0.500	ug/L	
SLA0147-IBL3	Chromium-53	0.0460	0.239	0.500	ug/L	
SLA0147-IBL3	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0147-IBL3	Silver-107	0.00100	0.022	0.200	ug/L	
SLA0147-CCB3	Chromium-52	0.0200	0.26	0.500	ug/L	
SLA0147-CCB3	Chromium-53	0.0240	0.239	0.500	ug/L	
SLA0147-CCB3	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0147-CCB3	Silver-107	0.00200	0.022	0.200	ug/L	
SLA0147-CCB4	Chromium-52	0.00800	0.26	0.500	ug/L	
SLA0147-CCB4	Chromium-53	0.0440	0.239	0.500	ug/L	
SLA0147-CCB4	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLA0147-CCB4	Silver-107	0.00	0.022	0.200	ug/L	
SLA0147-CCB5	Chromium-52	0.0200	0.26	0.500	ug/L	
SLA0147-CCB5	Chromium-53	-0.0200	0.239	0.500	ug/L	
SLA0147-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0147

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00033
Date Analyzed: 01/12/23 20:21

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0147-CCB5	Silver-107	0.00100	0.022	0.200	ug/L	
SLA0147-IBL4	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLA0147-IBL4	Chromium-53	-0.0390	0.239	0.500	ug/L	
SLA0147-IBL4	Lead-208	0.00300	0.0513	0.100	ug/L	
SLA0147-IBL4	Silver-107	0.00100	0.022	0.200	ug/L	
SLA0147-CCB6	Chromium-52	-0.0120	0.26	0.500	ug/L	
SLA0147-CCB6	Chromium-53	-0.0310	0.239	0.500	ug/L	
SLA0147-CCB6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0147-CCB6	Silver-107	0.00200	0.022	0.200	ug/L	
SLA0147-IBL5	Chromium-52	-0.00700	0.26	0.500	ug/L	
SLA0147-IBL5	Chromium-53	-0.0490	0.239	0.500	ug/L	
SLA0147-IBL5	Lead-208	0.00300	0.0513	0.100	ug/L	
SLA0147-IBL5	Silver-107	0.00200	0.022	0.200	ug/L	
SLA0147-CCB7	Chromium-52	-0.0130	0.26	0.500	ug/L	
SLA0147-CCB7	Chromium-53	-0.0400	0.239	0.500	ug/L	
SLA0147-CCB7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0147-CCB7	Silver-107	0.00300	0.022	0.200	ug/L	
SLA0147-IBL6	Chromium-52	-0.00700	0.26	0.500	ug/L	
SLA0147-IBL6	Chromium-53	-0.0450	0.239	0.500	ug/L	
SLA0147-IBL6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0147-IBL6	Silver-107	0.00	0.022	0.200	ug/L	
SLA0147-CCB8	Chromium-52	0.00200	0.26	0.500	ug/L	
SLA0147-CCB8	Chromium-53	-0.0460	0.239	0.500	ug/L	
SLA0147-CCB8	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0147-CCB8	Silver-107	0.00200	0.022	0.200	ug/L	
SLA0147-IBL7	Chromium-52	0.0250	0.26	0.500	ug/L	
SLA0147-IBL7	Chromium-53	-0.0440	0.239	0.500	ug/L	
SLA0147-IBL7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0147-IBL7	Silver-107	-0.00100	0.022	0.200	ug/L	
SLA0147-CCB9	Chromium-52	-0.00700	0.26	0.500	ug/L	
SLA0147-CCB9	Chromium-53	-0.0460	0.239	0.500	ug/L	
SLA0147-CCB9	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0147-CCB9	Silver-107	0.00200	0.022	0.200	ug/L	
SLA0147-IBL8	Chromium-52	-0.0170	0.26	0.500	ug/L	
SLA0147-IBL8	Chromium-53	-0.0510	0.239	0.500	ug/L	
SLA0147-IBL8	Lead-208	0.00100	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0147

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00033
Date Analyzed: 01/13/23 00:57

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0147-IBL8	Silver-107	-0.00100	0.022	0.200	ug/L	
SLA0147-CCBA	Chromium-52	0.0130	0.26	0.500	ug/L	
SLA0147-CCBA	Chromium-53	-0.0480	0.239	0.500	ug/L	
SLA0147-CCBA	Lead-208	0.00200	0.0513	0.100	ug/L	
SLA0147-CCBA	Silver-107	0.00200	0.022	0.200	ug/L	
SLA0147-CCBB	Chromium-52	0.00100	0.26	0.500	ug/L	
SLA0147-CCBB	Chromium-53	0.00200	0.239	0.500	ug/L	
SLA0147-CCBB	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0147-CCBB	Silver-107	0.00200	0.022	0.200	ug/L	
SLA0147-IBL9	Chromium-52	-0.00100	0.26	0.500	ug/L	
SLA0147-IBL9	Chromium-53	0.0150	0.239	0.500	ug/L	
SLA0147-IBL9	Lead-208	0.00100	0.0513	0.100	ug/L	
SLA0147-IBL9	Silver-107	0.00200	0.022	0.200	ug/L	
SLA0147-CCBC	Chromium-52	-0.0240	0.26	0.500	ug/L	
SLA0147-CCBC	Chromium-53	0.0100	0.239	0.500	ug/L	
SLA0147-CCBC	Lead-208	0.00200	0.0513	0.100	ug/L	
SLA0147-CCBC	Silver-107	0.00200	0.022	0.200	ug/L	
SLA0147-IBLA	Chromium-52	0.0740	0.26	0.500	ug/L	
SLA0147-IBLA	Chromium-53	2.24	0.239	0.500	ug/L	
SLA0147-IBLA	Lead-208	0.00200	0.0513	0.100	ug/L	
SLA0147-IBLA	Silver-107	-0.00100	0.022	0.200	ug/L	
SLA0147-CCBD	Chromium-52	0.0690	0.26	0.500	ug/L	
SLA0147-CCBD	Chromium-53	1.51	0.239	0.500	ug/L	
SLA0147-CCBD	Lead-208	0.00200	0.0513	0.100	ug/L	
SLA0147-CCBD	Silver-107	0.00100	0.022	0.200	ug/L	
SLA0147-IBLB	Chromium-52	0.0500	0.26	0.500	ug/L	
SLA0147-IBLB	Chromium-53	0.767	0.239	0.500	ug/L	
SLA0147-IBLB	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0147-IBLB	Silver-107	-0.00100	0.022	0.200	ug/L	
SLA0147-CCBE	Chromium-52	0.0440	0.26	0.500	ug/L	
SLA0147-CCBE	Chromium-53	0.627	0.239	0.500	ug/L	
SLA0147-CCBE	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0147-CCBE	Silver-107	0.00	0.022	0.200	ug/L	
SLA0147-IBLC	Chromium-52	0.0120	0.26	0.500	ug/L	
SLA0147-IBLC	Chromium-53	0.347	0.239	0.500	ug/L	
SLA0147-IBLC	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0147

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00033
Date Analyzed: 01/13/23 04:19

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0147-IBLC	Silver-107	-0.00200	0.022	0.200	ug/L	
SLA0147-CCBF	Chromium-52	0.0140	0.26	0.500	ug/L	
SLA0147-CCBF	Chromium-53	0.335	0.239	0.500	ug/L	
SLA0147-CCBF	Lead-208	0.00	0.0513	0.100	ug/L	
SLA0147-CCBF	Silver-107	0.00100	0.022	0.200	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0097	Instrument:	ICPMS2
		Calibration:	GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLA0097-CAL1	XDT_m2230109-006	NA	01/09/23 14:07
CAL 1 - LOW CHECK	SLA0097-CAL2	XDT_m2230109-007	NA	01/09/23 14:11
CAL 2	SLA0097-CAL3	XDT_m2230109-008	NA	01/09/23 14:15
CAL 3	SLA0097-CAL4	XDT_m2230109-009	NA	01/09/23 14:20
CAL 4	SLA0097-CAL5	XDT_m2230109-010	NA	01/09/23 14:25
CAL 5	SLA0097-CAL6	XDT_m2230109-011	NA	01/09/23 14:31
RINSE	SLA0097-IBL1	XDT_m2230109-012	NA	01/09/23 14:38
Initial Cal Check	SLA0097-ICV1	XDT_m2230109-014	NA	01/09/23 14:45
Initial Cal Blank	SLA0097-ICB1	XDT_m2230109-015	NA	01/09/23 14:53
Calibration Check	SLA0097-CCV1	XDT_m2230109-016	NA	01/09/23 14:57
Calibration Blank	SLA0097-CCB1	XDT_m2230109-017	NA	01/09/23 15:04
Instrument RL Check	SLA0097-CRL1	XDT_m2230109-018	NA	01/09/23 15:09
Interference Check A	SLA0097-IFA1	XDT_m2230109-019	NA	01/09/23 15:16
Interference Check B	SLA0097-IFB1	XDT_m2230109-020	NA	01/09/23 15:20
LR200	SLA0097-HCV1	XDT_m2230109-021	NA	01/09/23 15:25
LR300	SLA0097-HCV2	XDT_m2230109-022	NA	01/09/23 15:30
Instrument Blank	SLA0097-IBL2	XDT_m2230109-023	NA	01/09/23 15:37
Calibration Check	SLA0097-CCV2	XDT_m2230109-024	NA	01/09/23 15:43
Calibration Blank	SLA0097-CCB2	XDT_m2230109-025	NA	01/09/23 15:50
Blank	BKL0608-BLK1	XDT_m2230109-026	Solid	01/09/23 15:59
LCS	BKL0608-BS1	XDT_m2230109-027	Solid	01/09/23 16:03
ZZZZZ	BKL0080-BLK2	XDT_m2230109-028	Solid	01/09/23 16:15
ZZZZZ	BKL0080-BS2	XDT_m2230109-029	Solid	01/09/23 16:20
Instrument Blank	SLA0097-IBL3	XDT_m2230109-035	NA	01/09/23 16:46
Calibration Check	SLA0097-CCV3	XDT_m2230109-036	NA	01/09/23 16:51
Calibration Blank	SLA0097-CCB3	XDT_m2230109-037	NA	01/09/23 16:59
Instrument Blank	SLA0097-IBL4	XDT_m2230109-047	NA	01/09/23 17:49
Calibration Check	SLA0097-CCV4	XDT_m2230109-048	NA	01/09/23 17:54
Calibration Blank	SLA0097-CCB4	XDT_m2230109-049	NA	01/09/23 18:01

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLA0097-IBL5	XDT_m2230109-059	NA	01/09/23 18:49
Calibration Check	SLA0097-CCV5	XDT_m2230109-060	NA	01/09/23 18:54
Calibration Blank	SLA0097-CCB5	XDT_m2230109-061	NA	01/09/23 19:01
Calibration Check	SLA0097-CCV6	XDT_m2230109-072	NA	01/09/23 19:54
Calibration Blank	SLA0097-CCB6	XDT_m2230109-073	NA	01/09/23 20:01
Calibration Check	SLA0097-CCV7	XDT_m2230109-075	NA	01/09/23 20:13
Calibration Blank	SLA0097-CCB7	XDT_m2230109-076	NA	01/09/23 20:20
ZZZZZ	22L0329-07	XDT_m2230109-077	Solid	01/09/23 20:29
ZZZZZ	22H0525-01	XDT_m2230109-082	Solid	01/09/23 20:53
ZZZZZ	22H0525-02	XDT_m2230109-083	Solid	01/09/23 20:57
ZZZZZ	22H0525-03	XDT_m2230109-084	Solid	01/09/23 21:01
ZZZZZ	22H0525-04	XDT_m2230109-085	Solid	01/09/23 21:06
ZZZZZ	22H0525-05	XDT_m2230109-086	Solid	01/09/23 21:10
Calibration Check	SLA0097-CCV8	XDT_m2230109-087	NA	01/09/23 21:17
Calibration Blank	SLA0097-CCB8	XDT_m2230109-088	NA	01/09/23 21:24
ZZZZZ	22H0525-10	XDT_m2230109-095	Solid	01/09/23 22:01
ZZZZZ	22H0525-11	XDT_m2230109-096	Solid	01/09/23 22:05
ZZZZZ	22H0525-12	XDT_m2230109-097	Solid	01/09/23 22:10
ZZZZZ	22H0525-13	XDT_m2230109-098	Solid	01/09/23 22:14
Calibration Check	SLA0097-CCV9	XDT_m2230109-099	NA	01/09/23 22:21
Calibration Blank	SLA0097-CCB9	XDT_m2230109-100	NA	01/09/23 22:29
ZZZZZ	22H0525-14	XDT_m2230109-107	Solid	01/09/23 23:00
ZZZZZ	22H0525-19	XDT_m2230109-108	Solid	01/09/23 23:04
ZZZZZ	22H0525-20	XDT_m2230109-109	Solid	01/09/23 23:08
ZZZZZ	22H0525-21	XDT_m2230109-110	Solid	01/09/23 23:13
Calibration Check	SLA0097-CCVA	XDT_m2230109-111	NA	01/09/23 23:20
Calibration Blank	SLA0097-CCBA	XDT_m2230109-112	NA	01/09/23 23:27
Instrument Blank	SLA0097-IBL6	XDT_m2230109-114	NA	01/09/23 23:36
ZZZZZ	BKL0080-SRL2	XDT_m2230109-115	Solid	01/09/23 23:40

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22I0188-20	XDT_m2230109-116	Solid	01/09/23 23:44
ZZZZZ	BKL0080-DUP2	XDT_m2230109-117	Solid	01/09/23 23:49
ZZZZZ	BKL0080-MS2	XDT_m2230109-118	Solid	01/09/23 23:53
ZZZZZ	BKL0080-MSD2	XDT_m2230109-119	Solid	01/09/23 23:58
ZZZZZ	BKL0080-SRM2	XDT_m2230109-121	Solid	01/10/23 00:06
Instrument Blank	SLA0097-IBL7	XDT_m2230109-122	NA	01/10/23 00:11
Calibration Check	SLA0097-CCVB	XDT_m2230109-123	NA	01/10/23 00:15
Calibration Blank	SLA0097-CCBB	XDT_m2230109-124	NA	01/10/23 00:22
ZZZZZ	22H0525-22	XDT_m2230109-131	Solid	01/10/23 00:53
ZZZZZ	22H0525-23	XDT_m2230109-132	Solid	01/10/23 00:57
ZZZZZ	22H0525-24	XDT_m2230109-133	Solid	01/10/23 01:01
ZZZZZ	22H0525-31	XDT_m2230109-134	Solid	01/10/23 01:06
Calibration Check	SLA0097-CCVC	XDT_m2230109-135	NA	01/10/23 01:13
Calibration Blank	SLA0097-CCBC	XDT_m2230109-136	NA	01/10/23 01:20
Calibration Check	SLA0097-CCVD	XDT_m2230109-138	NA	01/10/23 01:29
Calibration Blank	SLA0097-CCBD	XDT_m2230109-139	NA	01/10/23 01:36
ZZZZZ	22H0525-32	XDT_m2230109-140	Solid	01/10/23 01:40
ZZZZZ	22H0525-34	XDT_m2230109-142	Solid	01/10/23 01:49
ZZZZZ	22H0525-35	XDT_m2230109-143	Solid	01/10/23 01:53
ZZZZZ	22H0525-36	XDT_m2230109-144	Solid	01/10/23 01:58
ZZZZZ	22H0525-38	XDT_m2230109-145	Solid	01/10/23 02:02
ZZZZZ	22H0525-39	XDT_m2230109-146	Solid	01/10/23 02:06
ZZZZZ	22H0529-02	XDT_m2230109-147	Solid	01/10/23 02:11
ZZZZZ	22H0529-12	XDT_m2230109-148	Solid	01/10/23 02:15
ZZZZZ	22H0529-13	XDT_m2230109-149	Solid	01/10/23 02:20
Calibration Check	SLA0097-CCVE	XDT_m2230109-150	NA	01/10/23 02:27
Calibration Blank	SLA0097-CCBE	XDT_m2230109-151	NA	01/10/23 02:34
ZZZZZ	22H0529-14	XDT_m2230109-152	Solid	01/10/23 02:39
ZZZZZ	22H0529-15	XDT_m2230109-153	Solid	01/10/23 02:43

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0529-16	XDT_m2230109-154	Solid	01/10/23 02:47
ZZZZZ	22H0529-17	XDT_m2230109-155	Solid	01/10/23 02:52
ZZZZZ	22H0529-18	XDT_m2230109-156	Solid	01/10/23 02:56
ZZZZZ	22H0529-22	XDT_m2230109-157	Solid	01/10/23 03:01
ZZZZZ	22H0529-23	XDT_m2230109-158	Solid	01/10/23 03:05
ZZZZZ	22H0529-24	XDT_m2230109-159	Solid	01/10/23 03:09
ZZZZZ	22H0529-25	XDT_m2230109-160	Solid	01/10/23 03:14
ZZZZZ	22H0529-26	XDT_m2230109-161	Solid	01/10/23 03:18
Calibration Check	SLA0097-CCVF	XDT_m2230109-162	NA	01/10/23 03:26
Calibration Blank	SLA0097-CCBF	XDT_m2230109-163	NA	01/10/23 03:33
ZZZZZ	22H0529-30	XDT_m2230109-164	Solid	01/10/23 03:37
ZZZZZ	22H0529-31	XDT_m2230109-165	Solid	01/10/23 03:41
ZZZZZ	22H0529-32	XDT_m2230109-166	Solid	01/10/23 03:46
ZZZZZ	22H0529-33	XDT_m2230109-167	Solid	01/10/23 03:50
ZZZZZ	22I0052-01	XDT_m2230109-168	Solid	01/10/23 03:55
ZZZZZ	22I0052-02	XDT_m2230109-169	Solid	01/10/23 03:59
ZZZZZ	22I0052-03	XDT_m2230109-170	Solid	01/10/23 04:03
ZZZZZ	22I0052-05	XDT_m2230109-171	Solid	01/10/23 04:08
ZZZZZ	22I0052-06	XDT_m2230109-172	Solid	01/10/23 04:12
ZZZZZ	22I0052-11	XDT_m2230109-173	Solid	01/10/23 04:17
Calibration Check	SLA0097-CCVG	XDT_m2230109-174	NA	01/10/23 04:24
Calibration Blank	SLA0097-CCBG	XDT_m2230109-175	NA	01/10/23 04:31
ZZZZZ	22I0052-13	XDT_m2230109-185	Solid	01/10/23 05:16
Calibration Check	SLA0097-CCVH	XDT_m2230109-186	NA	01/10/23 05:23
Calibration Blank	SLA0097-CCBH	XDT_m2230109-187	NA	01/10/23 05:30
Calibration Check	SLA0097-CCVI	XDT_m2230109-189	NA	01/10/23 05:39
Calibration Blank	SLA0097-CCBI	XDT_m2230109-190	NA	01/10/23 05:46
ZZZZZ	22L0612-01	XDT_m2230109-197	Water	01/10/23 06:17
Instrument Blank	SLA0097-IBL8	XDT_m2230109-200	NA	01/10/23 06:32

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0097	Instrument:	ICPMS2
		Calibration:	GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLA0097-CCVJ	XDT_m2230109-201	NA	01/10/23 06:36
Calibration Blank	SLA0097-CCBJ	XDT_m2230109-202	NA	01/10/23 06:43
Instrument Blank	SLA0097-IBL9	XDT_m2230109-212	NA	01/10/23 07:28
Calibration Check	SLA0097-CCVK	XDT_m2230109-213	NA	01/10/23 07:32
Calibration Blank	SLA0097-CCBK	XDT_m2230109-214	NA	01/10/23 07:39
Calibration Check	SLA0097-CCVL	XDT_m2230109-225	NA	01/10/23 08:32
Calibration Blank	SLA0097-CCBL	XDT_m2230109-226	NA	01/10/23 08:39
Calibration Check	SLA0097-CCVM	XDT_m2230109-237	NA	01/10/23 09:32
Calibration Blank	SLA0097-CCBM	XDT_m2230109-238	NA	01/10/23 09:39

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0147	Instrument:	ICPMS2
		Calibration:	GA00033

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLA0147-CAL1	XDT_m2230112-006	NA	01/12/23 15:38
CAL 1 - LOW CHECK	SLA0147-CAL2	XDT_m2230112-007	NA	01/12/23 15:43
CAL 2	SLA0147-CAL3	XDT_m2230112-008	NA	01/12/23 15:47
CAL 3	SLA0147-CAL4	XDT_m2230112-009	NA	01/12/23 15:52
CAL 4	SLA0147-CAL5	XDT_m2230112-010	NA	01/12/23 15:58
CAL 5	SLA0147-CAL6	XDT_m2230112-011	NA	01/12/23 16:04
RINSE	SLA0147-IBL1	XDT_m2230112-012	NA	01/12/23 16:12
Initial Cal Check	SLA0147-ICV1	XDT_m2230112-014	NA	01/12/23 16:22
Initial Cal Blank	SLA0147-ICB1	XDT_m2230112-015	NA	01/12/23 16:29
Calibration Check	SLA0147-CCV1	XDT_m2230112-016	NA	01/12/23 16:34
Calibration Blank	SLA0147-CCB1	XDT_m2230112-017	NA	01/12/23 16:41
Instrument RL Check	SLA0147-CRL1	XDT_m2230112-019	NA	01/12/23 16:57
Interference Check A	SLA0147-IFA1	XDT_m2230112-020	NA	01/12/23 17:03
Interference Check B	SLA0147-IFB1	XDT_m2230112-021	NA	01/12/23 17:08
LR200	SLA0147-HCV1	XDT_m2230112-022	NA	01/12/23 17:12
LR300	SLA0147-HCV2	XDT_m2230112-023	NA	01/12/23 17:17
Instrument Blank	SLA0147-IBL2	XDT_m2230112-024	NA	01/12/23 17:24
Calibration Check	SLA0147-CCV2	XDT_m2230112-025	NA	01/12/23 17:31
Calibration Blank	SLA0147-CCB2	XDT_m2230112-026	NA	01/12/23 17:39
Instrument Blank	SLA0147-IBL3	XDT_m2230112-036	NA	01/12/23 18:31
Calibration Check	SLA0147-CCV3	XDT_m2230112-038	NA	01/12/23 18:44
Calibration Blank	SLA0147-CCB3	XDT_m2230112-039	NA	01/12/23 18:51
Calibration Check	SLA0147-CCV4	XDT_m2230112-050	NA	01/12/23 19:53
Calibration Blank	SLA0147-CCB4	XDT_m2230112-051	NA	01/12/23 20:00
Calibration Check	SLA0147-CCV5	XDT_m2230112-053	NA	01/12/23 20:14
Calibration Blank	SLA0147-CCB5	XDT_m2230112-054	NA	01/12/23 20:21
Blank	BKL0608-BLK2	XDT_m2230112-055	Solid	01/12/23 20:26
LCS	BKL0608-BS2	XDT_m2230112-056	Solid	01/12/23 20:31
ZZZZZ	BLA0224-BLK1	XDT_m2230112-057	Solid	01/12/23 20:35

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0147	Instrument:	ICPMS2
		Calibration:	GA00033

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLA0224-BS1	XDT_m2230112-058	Solid	01/12/23 20:39
ZZZZZ	22K0328-17RE1	XDT_m2230112-059	Solid	01/12/23 20:44
ZZZZZ	22K0328-17RE1	XDT_m2230112-059	Solid	01/12/23 20:44
ZZZZZ	BLA0224-DUP1	XDT_m2230112-060	Solid	01/12/23 20:52
ZZZZZ	BLA0224-MS1	XDT_m2230112-061	Solid	01/12/23 20:56
ZZZZZ	BLA0224-MSD1	XDT_m2230112-062	Solid	01/12/23 21:01
ZZZZZ	22L0383-02	XDT_m2230112-063	Solid	01/12/23 21:06
ZZZZZ	22L0383-02	XDT_m2230112-063	Solid	01/12/23 21:06
Instrument Blank	SLA0147-IBL4	XDT_m2230112-064	NA	01/12/23 21:11
Calibration Check	SLA0147-CCV6	XDT_m2230112-065	NA	01/12/23 21:15
Calibration Blank	SLA0147-CCB6	XDT_m2230112-066	NA	01/12/23 21:22
ZZZZZ	22L0329-07	XDT_m2230112-071	Solid	01/12/23 21:50
ZZZZZ	22L0329-07	XDT_m2230112-071	Solid	01/12/23 21:50
Instrument Blank	SLA0147-IBL5	XDT_m2230112-076	NA	01/12/23 22:12
Calibration Check	SLA0147-CCV7	XDT_m2230112-077	NA	01/12/23 22:16
Calibration Blank	SLA0147-CCB7	XDT_m2230112-078	NA	01/12/23 22:23
Instrument Blank	SLA0147-IBL6	XDT_m2230112-088	NA	01/12/23 23:07
Calibration Check	SLA0147-CCV8	XDT_m2230112-089	NA	01/12/23 23:11
Calibration Blank	SLA0147-CCB8	XDT_m2230112-090	NA	01/12/23 23:18
Instrument Blank	SLA0147-IBL7	XDT_m2230112-100	NA	01/13/23 00:02
Calibration Check	SLA0147-CCV9	XDT_m2230112-101	NA	01/13/23 00:06
Calibration Blank	SLA0147-CCB9	XDT_m2230112-102	NA	01/13/23 00:13
LDW23-SC1123B	22L0459-01	XDT_m2230112-104	Solid	01/13/23 00:22
LDW23-SC1123B	22L0459-01	XDT_m2230112-104	Solid	01/13/23 00:22
LDW23-SC1123B	22L0459-01	XDT_m2230112-104	Solid	01/13/23 00:22
LDW23-SC1053C	22L0459-02	XDT_m2230112-105	Solid	01/13/23 00:26
LDW23-SC1053C	22L0459-02	XDT_m2230112-105	Solid	01/13/23 00:26
LDW23-SC1053C	22L0459-02	XDT_m2230112-105	Solid	01/13/23 00:26
LDW23-SC1039C	22L0459-03	XDT_m2230112-106	Solid	01/13/23 00:31

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0147
Instrument: ICPMS2
Calibration: GA00033

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LDW23-SC1039C	22L0459-03	XDT_m2230112-106	Solid	01/13/23 00:31
LDW23-SC1039C	22L0459-03	XDT_m2230112-106	Solid	01/13/23 00:31
LDW23-SC1007B	22L0459-04	XDT_m2230112-107	Solid	01/13/23 00:35
LDW23-SC1007B	22L0459-04	XDT_m2230112-107	Solid	01/13/23 00:35
LDW23-SC1007B	22L0459-04	XDT_m2230112-107	Solid	01/13/23 00:35
LDW23-SC1002C	22L0459-05	XDT_m2230112-108	Solid	01/13/23 00:39
LDW23-SC1002C	22L0459-05	XDT_m2230112-108	Solid	01/13/23 00:39
LDW23-SC1002C	22L0459-05	XDT_m2230112-108	Solid	01/13/23 00:39
LDW23-SC1070B	22L0459-06	XDT_m2230112-109	Solid	01/13/23 00:44
LDW23-SC1070B	22L0459-06	XDT_m2230112-109	Solid	01/13/23 00:44
LDW23-SC1070B	22L0459-06	XDT_m2230112-109	Solid	01/13/23 00:44
LDW23-SC1091B	22L0459-07	XDT_m2230112-110	Solid	01/13/23 00:48
LDW23-SC1091B	22L0459-07	XDT_m2230112-110	Solid	01/13/23 00:48
LDW23-SC1091B	22L0459-07	XDT_m2230112-110	Solid	01/13/23 00:48
Instrument Blank	SLA0147-IBL8	XDT_m2230112-112	NA	01/13/23 00:57
Calibration Check	SLA0147-CCVA	XDT_m2230112-113	NA	01/13/23 01:01
Calibration Blank	SLA0147-CCBA	XDT_m2230112-114	NA	01/13/23 01:09
Calibration Check	SLA0147-CCVB	XDT_m2230112-116	NA	01/13/23 01:17
Calibration Blank	SLA0147-CCBB	XDT_m2230112-117	NA	01/13/23 01:24
Instrument Blank	SLA0147-IBL9	XDT_m2230112-127	NA	01/13/23 02:08
Calibration Check	SLA0147-CCVC	XDT_m2230112-128	NA	01/13/23 02:12
Calibration Blank	SLA0147-CCBC	XDT_m2230112-129	NA	01/13/23 02:20
Instrument Blank	SLA0147-IBLA	XDT_m2230112-139	NA	01/13/23 02:53
Calibration Check	SLA0147-CCVD	XDT_m2230112-140	NA	01/13/23 02:57
Calibration Blank	SLA0147-CCBD	XDT_m2230112-141	NA	01/13/23 03:03
Instrument Blank	SLA0147-IBLB	XDT_m2230112-151	NA	01/13/23 03:36
Calibration Check	SLA0147-CCVE	XDT_m2230112-152	NA	01/13/23 03:40
Calibration Blank	SLA0147-CCBE	XDT_m2230112-153	NA	01/13/23 03:46
Instrument Blank	SLA0147-IBLC	XDT_m2230112-163	NA	01/13/23 04:19

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0147	Instrument:	ICPMS2
		Calibration:	GA00033

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLA0147-CCVF	XDT_m2230112-164	NA	01/13/23 04:22
Calibration Blank	SLA0147-CCBF	XDT_m2230112-165	NA	01/13/23 04:29

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Sequence: SLA0097
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0097-IFA1	Chromium-52	0	0.7920		ug/L
	Chromium-53	0	4.2680		ug/L
	Lead-208	0	0.0270		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Sequence: SLA0097
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0097-IFB1	Chromium-52	20.000	20.026	100	ug/L
	Chromium-53	20.000	23.495	117	ug/L
	Lead-208	0	0.0230		ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Sequence: SLA0147
Standard ID: L000394

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0147-IFA1	Chromium-52	0	0.8550		ug/L
	Chromium-53	0	5.1730		ug/L
	Lead-208	0	0.0390		ug/L
	Silver-107	0	0.0020		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Sequence: SLA0147
Standard ID: L000394

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0147-IFB1	Chromium-52	20.000	20.114	101	ug/L
	Chromium-53	20.000	23.800	119	ug/L
	Lead-208	0	0.0300		ug/L
	Silver-107	20.000	17.960	89.8	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Sequence: SLA0097
Lab Sample ID: SLA0097-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.523	105	ug/L	50 - 150
Chromium-53	0.50000	0.510	102	ug/L	50 - 150
Lead-208	0.10000	0.103	103	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Sequence: SLA0147
Lab Sample ID: SLA0147-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.485	97.0	ug/L	50 - 150
Chromium-53	0.50000	0.477	95.4	ug/L	50 - 150
Lead-208	0.10000	0.101	101	ug/L	50 - 150
Silver-107	0.20000	0.198	99.0	ug/L	50 - 150

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00024
Laboratory ID: SLA0097-HCV1
Sequence: SLA0097
Standard ID: L000232

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	193	-3.3	10.00
Chromium-53	200.00	198	-1.0	10.00
Lead-208	200.00	195	-2.3	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00024
Laboratory ID: SLA0097-HCV2
Sequence: SLA0097
Standard ID: L000233

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	294	-1.9	10.00
Chromium-53	300.00	300	-0.1	10.00
Lead-208	300.00	297	-1.0	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00033
Laboratory ID: SLA0147-HCV1
Sequence: SLA0147
Standard ID: L000232

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	186	-6.9	10.00
Chromium-53	200.00	190	-4.9	10.00
Lead-208	200.00	191	-4.3	10.00
Silver-107	200.00	188	-6.1	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00033
Laboratory ID: SLA0147-HCV2
Sequence: SLA0147
Standard ID: L000233

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	272	-9.4	10.00
Chromium-53	300.00	281	-6.2	10.00
Lead-208	300.00	278	-7.2	10.00
Silver-107	300.00	278	-7.4	10.00

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 6020B

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SC1123B 22L0459-01	12/16/22 08:19	12/16/22 15:47	12/27/22 10:02	11	180	01/13/23 00:22	28	180	
LDW23-SC1053C 22L0459-02	12/16/22 09:12	12/16/22 15:47	12/27/22 10:02	11	180	01/13/23 00:26	28	180	
LDW23-SC1039C 22L0459-03	12/16/22 09:50	12/16/22 15:47	12/27/22 10:02	11	180	01/13/23 00:31	28	180	
LDW23-SC1007B 22L0459-04	12/16/22 10:43	12/16/22 15:47	12/27/22 10:02	10	180	01/13/23 00:35	28	180	
LDW23-SC1002C 22L0459-05	12/16/22 11:20	12/16/22 15:47	12/27/22 10:02	10	180	01/13/23 00:39	28	180	
LDW23-SC1070B 22L0459-06	12/16/22 12:01	12/16/22 15:47	12/27/22 10:02	10	180	01/13/23 00:44	28	180	
LDW23-SC1091B 22L0459-07	12/16/22 12:38	12/16/22 15:47	12/27/22 10:02	10	180	01/13/23 00:48	28	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ICPMS2

Analyte	MDL	RL	Units
Chromium-52	0.26	0.50	mg/kg
Chromium-53	0.24	0.50	mg/kg
Lead-208	0.05	0.10	mg/kg
Silver-107	0.02	0.20	mg/kg

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	P2-CU682108
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9977 ± 50 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10024 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 46 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008700	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003781	M	Sn	<	0.005657				
O	B		0.003663	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004253	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005789	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000763	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007174	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 $Cu(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	S2-PB713228
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2343
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	M	Na		0.001470	M	Se	<	0.009100	O	Zn	0.006155
O	Al		0.017098	O	Fe		0.002496	M	Nb	<	0.000310	O	Si		0.003761	O	Zr	< 0.001700
M	As	<	0.003100	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310			
M	Au	<	0.000910	M	Gd	<	0.000310	O	Ni		0.001709	M	Sn	<	0.001300			
O	B	<	0.005600	M	Ge	<	0.002200	M	Os	<	0.000310	O	Sr		0.000444			
O	Ba		0.007865	M	Hf	<	0.000310	O	P	<	0.038000	M	Ta	<	0.000310			
O	Be	<	0.000320	M	Hg	<	0.002200	s	Pb	<		M	Tb	<	0.000610			
M	Bi	<	0.028000	M	Ho	<	0.000310	M	Pd	<	0.000610	M	Te	<	0.000310			
O	Ca		0.019834	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310			
O	Cd	<	0.000630	M	Ir	<	0.000310	M	Pt	<	0.000910	O	Ti		0.005129			
M	Ce		0.004787	O	K		0.008207	M	Rb	<	0.006700	M	Tl	<	0.016000			
M	Co	<	0.000610	M	La	<	0.001900	M	Re	<	0.000310	M	Tm	<	0.000310			
O	Cr	<	0.001500	O	Li	<	0.000110	O	Rh	<	0.007700	M	U	<	0.000310			
M	Cs	<	0.006100	M	Lu	<	0.000310	M	Ru	<	0.001300	M	V	<	0.001600			
M	Cu	<	0.001600	O	Mg		0.003317	O	S	<	0.052000	M	W	<	0.000910			
M	Dy	<	0.000310	O	Mn	<	0.001600	O	Sb	<	0.015000	M	Y	<	0.000310			
M	Er	<	0.000310	M	Mo	<	0.000610	O	Sc	<	0.000630	M	Yb	<	0.000310			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

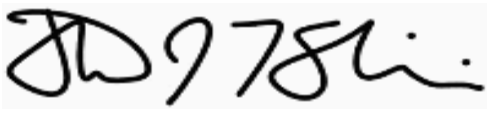
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	S2-ZN711249
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zinc Metal
Starting Material Lot#:	2349
Starting Material Purity:	99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 56 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **9987 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10002 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002000	M	Eu	<	0.000500	O	Na		0.008713	M	Se	<	0.048000	s	Zn	<	
O	Al	<	0.011000	O	Fe		0.015467	M	Nb	<	0.000500	O	Si		0.007842	M	Zr	<	0.000500
O	As	<	0.012000	M	Ga	<	0.004900	M	Nd	<	0.000500	M	Sm	<	0.000500				
M	Au	<	0.006500	M	Gd	<	0.000500	O	Ni		0.003049	M	Sn		0.002614				
O	B	<	0.019000	M	Ge	<	0.009100	M	Os	<	0.000500	M	Sr	<	0.000500				
M	Ba	<	0.000500	M	Hf	<	0.000500	O	P	<	0.059000	M	Ta	<	0.000500				
O	Be	<	0.000230	O	Hg	<	0.003800	M	Pb		0.016774	M	Tb	<	0.000500				
M	Bi	<	0.002400	M	Ho	<	0.000500	M	Pd	<	0.001000	M	Te	<	0.017000				
O	Ca		0.052283	M	In	<	0.003500	M	Pr	<	0.000500	M	Th	<	0.000500				
O	Cd		0.000588	M	Ir	<	0.001000	M	Pt	<	0.000500	M	Ti	<	0.002000				
M	Ce	<	0.000500	O	K		0.017209	M	Rb	<	0.002500	M	Tl	<	0.000500				
M	Co		0.000653	M	La	<	0.000500	M	Re	<	0.000500	M	Tm	<	0.000500				
O	Cr		0.001089	O	Li	<	0.000230	M	Rh	<	0.000500	M	U	<	0.000500				
M	Cs	<	0.000500	M	Lu	<	0.000500	M	Ru	<	0.005000	M	V	<	0.000500				
O	Cu		0.001938	O	Mg		0.000871	O	S	<	0.048000	M	W	<	0.001000				
M	Dy	<	0.000500	O	Mn		0.000172	M	Sb	<	0.004300	M	Y	<	0.000500				
M	Er	<	0.000500	M	Mo	<	0.001500	O	Sc	<	0.000900	M	Yb	<	0.000500				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

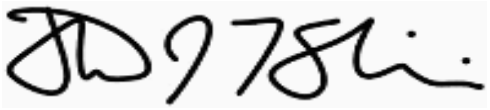
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	S2-SE711004
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013654	s	Se	<		O	Zn		0.002374
M	Al		0.004450	M	Fe		0.008478	O	Nb	<	0.002975	O	Si		0.006249	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001843	M	Sn		0.000847				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006358	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006530	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001165	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.001999	M	Rb	<	0.001868	M	Tl		0.008584				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002861	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001156	O	S		0.024591	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	S2-MO706255
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.008739	M	Se	<	0.008000	M	Zn		0.005942
M	Al		0.005592	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.001747				
M	Ba		0.016778	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.062920	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Ti	<	0.032000				
M	Ce	<	0.008300	M	K		1.293372	M	Rb		0.045442	M	Tl		0.012584				
M	Co		0.005942	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005243	O	Li		0.000594	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.005243	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.022371	M	Mg		0.005592	i	S	<		M	W		0.873900				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.015031	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	T2-TL714687
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL(

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002489	M	Se	<	0.011019	O	Zn		0.002298
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003760	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001724	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000811	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002436	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001318	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006175	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000529	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+
Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Tl Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

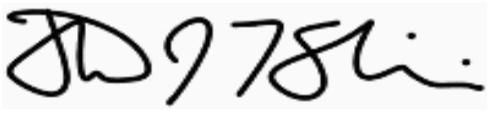
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	S2-CD710508
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Metal
Starting Material Lot#:	1953
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10011 ± 30 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #3 **10003 ± 30 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.003200	O	Eu	<	0.002500	O	Na		0.005499	M	Se	<	0.005700	O	Zn	<	0.001100
O	Al		0.008903	O	Fe		0.000602	M	Nb	<	0.000400	O	Si		0.016758	O	Zr	<	0.002600
M	As	<	0.003600	M	Ga	<	0.001200	M	Nd	<	0.000800	M	Sm	<	0.000400				
M	Au	<	0.000810	M	Gd	<	0.000400	M	Ni	<	0.003600	M	Sn	<	0.003200				
O	B		0.004189	O	Ge	<	0.012000	M	Os	<	0.000810	O	Sr	<	0.000330				
M	Ba	<	0.002400	M	Hf	<	0.000400	O	P	<	0.022000	M	Ta	<	0.000800				
M	Be	<	0.000400	M	Hg	<	0.001700	M	Pb	<	0.002400	M	Tb	<	0.000400				
M	Bi	<	0.000400	M	Ho	<	0.000400	M	Pd	<	0.001200	M	Te	<	0.008000				
O	Ca		0.011259	O	In	<	0.013000	M	Pr	<	0.000400	M	Th	<	0.000400				
s	Cd	<		M	Ir	<	0.000410	M	Pt	<	0.000400	O	Ti		0.000602				
M	Ce	<	0.000400	O	K		0.005237	M	Rb	<	0.004400	M	Tl		0.000523				
M	Co	<	0.000400	M	La	<	0.000400	M	Re	<	0.000400	M	Tm	<	0.000400				
O	Cr	<	0.005100	O	Li	<	0.000054	M	Rh	<	0.000400	M	U	<	0.000400				
M	Cs	<	0.002400	M	Lu	<	0.000400	M	Ru	<	0.002500	M	V	<	0.002000				
O	Cu	<	0.004800	O	Mg		0.000288	O	S	<	0.022000	M	W	<	0.000400				
M	Dy	<	0.000400	O	Mn	<	0.000860	O	Sb	<	0.018000	M	Y	<	0.000400				
M	Er	<	0.000400	M	Mo	<	0.001600	O	Sc	<	0.000430	M	Yb	<	0.000400				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	S2-MN704240
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9989 ± 69 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **10011 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10024 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176097	M	Se	<	0.006600	M	Zn		0.009925
O	Al		0.004322	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097654	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004322	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024013	M	Sn	<	0.002200				
M	B		0.068838	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000928				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007364	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062434	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006403	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014728	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.272151	O	Li		0.000416	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007684	O	Mg		0.320177	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001360				
M	Er	<	0.001500	M	Mo		0.010245	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 $Mn(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO_3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H_2SO_4 and heat to SO_3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16O,37Cl18O,40Ar15N,38Ar17O,36Ar18O1H ,38Ar16O1H,37Cl17O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance:
$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2
$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2
$u_{char\ a}$ = the errors from characterization
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn		0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	<	0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100				
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800				
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750				
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300				
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100				
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600				
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100				
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800				
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100				
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100				
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100				
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800				
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200				
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100				
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	T2-AS718260
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Metal
Starting Material Lot#:	2208
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL

Density: 1.037 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.003200	M	Eu	< 0.000530	O	Na	0.032544	M	Se	< 0.006300	O	Zn	0.001952			
M	Al	0.007593	O	Fe	0.001475	O	Nb	< 0.012000	O	Si	0.238658	O	Zr	< 0.004100			
s	As	<	M	Ga	< 0.000530	M	Nd	< 0.000530	M	Sm	< 0.000530						
M	Au	< 0.003100	M	Gd	< 0.000530	M	Ni	< 0.002100	M	Sn	< 0.000530						
M	B	0.026035	M	Ge	< 0.001600	M	Os	< 0.000520	M	Sr	< 0.000530						
M	Ba	< 0.000530	M	Hf	< 0.000530	O	P	< 0.043000	M	Ta	< 0.000530						
O	Be	< 0.000360	M	Hg	< 0.001600	M	Pb	< 0.002100	M	Tb	< 0.000530						
M	Bi	< 0.000530	M	Ho	< 0.000530	M	Pd	< 0.001100	M	Te	< 0.004700						
O	Ca	0.004339	M	In	< 0.023000	M	Pr	< 0.005300	M	Th	< 0.000530						
M	Cd	< 0.001100	M	Ir	< 0.000520	M	Pt	< 0.000530	O	Ti	< 0.002300						
M	Ce	< 0.000530	O	K	0.002061	M	Rb	< 0.000530	M	Tl	< 0.000530						
M	Co	< 0.000530	M	La	< 0.001100	M	Re	< 0.000530	M	Tm	< 0.000530						
O	Cr	< 0.001800	O	Li	< 0.000120	M	Rh	< 0.000530	M	U	< 0.000530						
M	Cs	< 0.005300	M	Lu	< 0.000530	M	Ru	< 0.000520	M	V	< 0.002700						
M	Cu	< 0.001600	O	Mg	0.000154	O	S	0.028205	M	W	< 0.012000						
M	Dy	< 0.000530	O	Mn	0.000154	M	Sb	< 0.000530	M	Y	< 0.000530						
M	Er	< 0.000530	M	Mo	< 0.000530	O	Sc	< 0.001700	M	Yb	< 0.000530						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3,H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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CERTIFICATE OF ANALYSIS

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ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	R2-BA692576
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Barium Nitrate
Starting Material Lot#:	1969
Starting Material Purity:	99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10018 ± 50 µg/mL** ICP Assay NIST SRM 3104a Lot Number: 140909
Assay Method #2	**10023 ± 31 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #3	**10023 ± 30 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000410	O	Eu	<	0.005200	O	Na		0.004610	M	Se	<	0.003700	O	Zn		0.000658
M	Al	<	0.003100	O	Fe		0.015707	M	Nb	<	0.000210	O	Si		0.005573	M	Zr	<	0.001300
M	As	<	0.001300	M	Ga	<	0.000210	M	Nd	<	0.000210	O	Sm	<	0.021000				
M	Au	<	0.001300	M	Gd	<	0.000210	M	Ni	<	0.000810	M	Sn	<	0.000410				
O	B	<	0.005200	M	Ge	<	0.002500	M	Os	<	0.000410	O	Sr		0.003850				
s	Ba	<		M	Hf	<	0.000810	O	P	<	0.026000	M	Ta	<	0.000410				
O	Be	<	0.000320	M	Hg	<	0.000210	M	Pb	<	0.002300	M	Tb	<	0.000210				
M	Bi	<	0.000210	M	Ho	<	0.000210	M	Pd	<	0.000210	M	Te	<	0.001900				
O	Ca		0.007093	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	M	Ti	<	0.002100				
M	Ce	<	0.001300	O	K		0.035467	M	Rb	<	0.002100	M	Tl	<	0.000210				
M	Co	<	0.000410	O	La	<	0.005200	M	Re	<	0.000210	M	Tm	<	0.000410				
M	Cr	<	0.001700	O	Li	<	0.000630	M	Rh	<	0.000210	M	U	<	0.000210				
M	Cs	<	0.003300	M	Lu	<	0.001700	M	Ru	<	0.000210	O	V	<	0.005200				
M	Cu	<	0.001300	O	Mg		0.000861	O	S		0.268539	M	W	<	0.000410				
M	Dy	<	0.000210	M	Mn	<	0.000410	M	Sb	<	0.001300	O	Y	<	0.005200				
M	Er	<	0.001300	M	Mo	<	0.000410	M	Sc	<	0.000410	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$
Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.
Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	R2-BE692992
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium Acetate
Starting Material Lot#:	2281
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL

Density: 1.128 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001100	M	Eu	<	0.000270	O	Na		0.040962	M	Se	<	0.005000	M	Zn		0.013054
O	Al		0.016205	O	Fe		0.015754	M	Nb	<	0.000270	O	Si		0.024307	O	Zr	<	0.001900
M	As	<	0.002900	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270				
M	Au	<	0.000520	M	Gd	<	0.000270	M	Ni	<	0.003700	M	Sn	<	0.000790				
M	B	<	0.091000	M	Ge	<	0.000270	M	Os	<	0.000260	M	Sr		0.000630				
M	Ba		0.002700	M	Hf	<	0.000270	O	P	<	0.066000	M	Ta	<	0.000270				
s	Be	<		M	Hg	<	0.000520	M	Pb	<	0.000270	M	Tb	<	0.000270				
M	Bi	<	0.000530	M	Ho	<	0.000270	M	Pd	<	0.000520	M	Te	<	0.003700				
O	Ca		0.072022	M	In	<	0.000790	M	Pr	<	0.000270	M	Th	<	0.000270				
M	Cd	<	0.000790	M	Ir	<	0.000260	M	Pt	<	0.000270	O	Ti	<	0.000400				
M	Ce	<	0.000270	O	K		0.045014	M	Rb	<	0.000270	M	Tl	<	0.000790				
O	Co	<	0.003200	M	La	<	0.000270	M	Re	<	0.000270	M	Tm	<	0.000270				
O	Cr	<	0.001800	O	Li	<	0.000660	M	Rh	<	0.001100	M	U	<	0.000270				
M	Cs		0.001440	M	Lu	<	0.000270	M	Ru	<	0.000260	M	V	<	0.000790				
M	Cu	<	0.002100	O	Mg		0.016205	i	S	<		M	W	<	0.000530				
M	Dy	<	0.000270	M	Mn		0.001215	M	Sb	<	0.000270	M	Y	<	0.000270				
M	Er	<	0.000270	M	Mo	<	0.000530	O	Sc	<	0.000930	M	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 $Be(H_2O)_4^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO_3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H_2SO_4); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO4 fusion); Ores (H_2SO_4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	R2-CO695285
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	Co Metal
Starting Material Lot#:	2326
Starting Material Purity:	99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10031 ± 67 µg/mL**
ICP Assay NIST SRM 3113 Lot Number: 190630

Assay Method #2 **10019 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10000 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	0.014660	M	Eu	<	0.000590	O	Na	0.007534	M	Se	<	0.019000	M	Zn	0.003461	
M	Al	< 0.024000	M	Fe	0.050905	M	Nb	<	0.000590	O	Si	0.075340	M	Zr	<	0.001200	
i	As	<	M	Ga	<	0.000590	M	Nd	<	0.000590	M	Sm	<	0.000590			
M	Au	< 0.004100	M	Gd	<	0.000590	O	Ni	0.427608	M	Sn	<	0.001200				
M	B	< 0.031000	M	Ge	<	0.003000	M	Os	<	0.000590	O	Sr	<	0.000260			
M	Ba	< 0.000590	M	Hf	<	0.000590	n	P	<		M	Ta	<	0.001200			
O	Be	< 0.001300	M	Hg	<	0.001800	M	Pb	0.003257	M	Tb	<	0.000590				
M	Bi	< 0.003000	M	Ho	<	0.000590	M	Pd	<	0.000590	M	Te	<	0.005300			
O	Ca	0.010588	M	In	<	0.001200	M	Pr	<	0.000590	M	Th	<	0.000590			
M	Cd	< 0.004700	M	Ir	<	0.001200	M	Pt	<	0.002400	M	Ti	<	0.014000			
M	Ce	< 0.000590	O	K	0.008144	M	Rb	<	0.000590	M	Tl	0.002647					
s	Co	<	M	La	<	0.000590	M	Re	<	0.000590	M	Tm	<	0.000590			
M	Cr	< 0.021000	O	Li	<	0.000130	M	Rh	<	0.000590	M	U	<	0.000590			
M	Cs	< 0.002400	M	Lu	<	0.000590	M	Ru	<	0.007100	O	V	<	0.000880			
M	Cu	0.189369	O	Mg	0.001893	n	S	<		M	W	<	0.000590				
M	Dy	< 0.000590	M	Mn	<	0.001800	M	Sb	<	0.003600	M	Y	<	0.000590			
M	Er	< 0.000590	M	Mo	<	0.002400	O	Sc	<	0.001600	M	Yb	<	0.000590			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 $Co(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	S2-AG712977
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2289
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10051 ± 52 µg/mL**
ICP Assay NIST SRM 3151 Lot Number: 160729

Assay Method #2 **10051 ± 19 µg/mL**
Volhard NIST SRM 999c Lot Number: 999c

Assay Method #3 **10049 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000260	O	Na		0.003811	M	Se	<	0.003900	O	Zn		0.048146
M	Al		0.002688	O	Fe		0.006419	M	Nb	<	0.000260	O	Si		0.005215	M	Zr	<	0.000260
M	As	<	0.001100	M	Ga	<	0.000260	M	Nd	<	0.000260	M	Sm	<	0.000260				
M	Au	<	0.000260	M	Gd	<	0.000260	O	Ni		0.001765	M	Sn		0.020060				
O	B	<	0.004300	M	Ge	<	0.002300	M	Os	<	0.001100	O	Sr	<	0.000110				
M	Ba	<	0.000520	M	Hf	<	0.000260	O	P	<	0.017000	M	Ta	<	0.000260				
O	Be	<	0.001100	M	Hg	<	0.000770	M	Pb	<	0.003600	M	Tb	<	0.000260				
M	Bi		0.004814	M	Ho	<	0.000260	M	Pd		0.044134	M	Te	<	0.009000				
O	Ca		0.005215	M	In		0.003691	M	Pr	<	0.000260	M	Th	<	0.000260				
M	Cd	<	0.000260	M	Ir	<	0.000520	M	Pt	<	0.001100	O	Ti	<	0.000440				
M	Ce	<	0.002100	O	K	<	0.008700	M	Rb	<	0.001100	M	Tl	<	0.004100				
O	Co	<	0.000330	M	La	<	0.000260	M	Re	<	0.000260	M	Tm	<	0.000260				
O	Cr	<	0.002500	O	Li	<	0.000110	M	Rh	<	0.000520	M	U	<	0.000260				
M	Cs	<	0.002600	M	Lu	<	0.000260	M	Ru	<	0.000260	M	V	<	0.000260				
O	Cu		0.357085	O	Mg		0.001203	O	S	<	0.017000	M	W	<	0.000260				
M	Dy	<	0.000260	O	Mn	<	0.000220	M	Sb	<	0.014000	M	Y	<	0.000260				
M	Er	<	0.000260	M	Mo	<	0.000260	O	Sc	<	0.000220	M	Yb	<	0.000260				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	S2-CR709784
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr Metal
Starting Material Lot#:	2328
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL

Density: 1.072 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001700	M	Eu	<	0.003400	O	Na		0.090372	M	Se	<	0.012000	O	Zn	<	0.006100
M	Al		0.034916	O	Fe		0.246471	M	Nb	<	0.017000	n	Si	<		M	Zr	<	0.007800
M	As	<	0.028000	O	Ga	<	0.013000	M	Nd	<	0.013000	M	Sm	<	0.006900				
M	Au	<	0.001700	M	Gd	<	0.000560	M	Ni		0.016020	M	Sn		0.006983				
O	B	<	0.025000	O	Ge	<	0.014000	M	Os	<	0.000560	M	Sr		0.006367				
M	Ba	<	0.008900	M	Hf	<	0.000560	i	P	<		M	Ta	<	0.000560				
M	Be	<	0.013000	M	Hg	<	0.001700	M	Pb		0.010064	M	Tb	<	0.000560				
M	Bi	<	0.002300	M	Ho	<	0.000560	M	Pd	<	0.021000	M	Te	<	0.010000				
O	Ca		0.075995	M	In	<	0.000560	M	Pr	<	0.001700	M	Th	<	0.000560				
M	Cd	<	0.000560	M	Ir	<	0.000560	M	Pt	<	0.001200	O	Ti		0.013555				
M	Ce	<	0.001200	O	K		0.043132	i	Rb	<		M	Tl	<	0.000560				
M	Co	<	0.002600	M	La	<	0.001200	M	Re	<	0.001200	O	Tm	<	0.013000				
s	Cr	<		O	Li		0.000390	M	Rh	<	0.095000	M	U	<	0.000560				
M	Cs	<	0.007800	M	Lu	<	0.000560	M	Ru	<	0.087000	O	V		0.014993				
O	Cu		0.007599	O	Mg		0.000883	i	S	<		M	W	<	0.049000				
M	Dy	<	0.000560	M	Mn		0.008626	M	Sb	<	0.003400	M	Y	<	0.001700				
M	Er	<	0.019000	M	Mo	<	0.032000	M	Sc		0.003080	M	Yb	<	0.000560				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	S2-V711005
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium Pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL

Density: 1.104 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000110	M	Eu	<	0.000110	O	Na		0.120000	M	Se	<	0.009400	M	Zn		0.009400
O	Al		0.120000	O	Fe		0.460000	M	Nb	<	0.001300	O	Si		0.270000	M	Zr	<	0.002900
M	As	<	0.000210	M	Ga	<	0.009300	M	Nd	<	0.000610	M	Sm	<	0.000110				
M	Au	<	0.004700	M	Gd	<	0.000110	M	Ni		0.012000	M	Sn		0.003900				
M	B		0.051000	M	Ge	<	0.000410	M	Os	<	0.000110	O	Sr		0.007100				
M	Ba		0.003600	M	Hf	<	0.000110	O	P	<	0.034000	M	Ta	<	0.000110				
O	Be	<	0.000560	M	Hg	<	0.000410	M	Pb		0.001400	M	Tb	<	0.000110				
M	Bi	<	0.000210	M	Ho	<	0.000110	M	Pd	<	0.000410	M	Te	<	0.000110				
O	Ca		0.730000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210				
M	Cd	<	0.000610	M	Ir	<	0.000110	M	Pt	<	0.000110	M	Ti		0.017000				
M	Ce	<	0.000610	M	K		0.052000	M	Rb	<	0.000310	M	Tl	<	0.000110				
M	Co	<	0.001300	M	La	<	0.000410	M	Re		0.001700	M	Tm	<	0.000110				
O	Cr		0.170000	M	Li	<	0.000810	M	Rh	<	0.000110	M	U	<	0.000410				
M	Cs		0.005600	M	Lu	<	0.000110	M	Ru	<	0.000110	s	V	<					
M	Cu	<	0.001300	M	Mg		0.053000	i	S	<		M	W		0.002000				
M	Dy	<	0.000110	M	Mn		0.007900	M	Sb		0.078000	M	Y	<	0.000110				
M	Er	<	0.000110	M	Mo		0.094000	M	Sc	<	0.000410	M	Yb	<	0.000110				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 H2V10O284-

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4, HF, H3PO4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na2CO3 / KNO3); Oxides (V2O3 - use HCl, V2O4 - use HCl or HNO3, V2O5 - use concentrated acids); Ores (Na2CO3 / KNO3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V2O5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

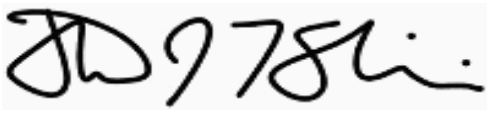
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	T2-AL716102
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Aluminum Nitrate Nonahydrate
Starting Material Lot#:	2460
Starting Material Purity:	99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10059 ± 40 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 140903

Assay Method #2 **10044 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10049 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002100	M	Eu	<	0.002100	O	Na		0.352819	M	Se	<	0.005200	M	Zn	0.006018
s	Al	<		O	Fe		0.074714	M	Nb	<	0.000520	O	Si		0.017848	O	Zr	0.004358
M	As		0.008716	O	Ga		0.112072	M	Nd	<	0.000520	M	Sm	<	0.000520			
M	Au	<	0.008400	M	Gd	<	0.001100	O	Ni	<	0.006000	M	Sn		0.000747			
O	B	<	0.014000	M	Ge	<	0.005200	M	Os	<	0.000650	O	Sr		0.000518			
O	Ba		0.012867	M	Hf	<	0.004100	n	P	<		M	Ta	<	0.000520			
O	Be	<	0.000270	M	Hg	<	0.002000	M	Pb		0.002282	M	Tb	<	0.000520			
M	Bi		0.001930	M	Ho	<	0.000520	M	Pd	<	0.000520	M	Te	<	0.001100			
O	Ca		0.076790	M	In	<	0.002100	M	Pr	<	0.000520	M	Th	<	0.000520			
M	Cd	<	0.000520	M	Ir	<	0.000650	M	Pt	<	0.000520	O	Ti		0.001930			
M	Ce	<	0.001100	O	K		0.043583	M	Rb	<	0.000520	M	Tl	<	0.000520			
O	Co	<	0.005400	M	La	<	0.002100	M	Re	<	0.000520	M	Tm	<	0.000520			
O	Cr		0.006018	O	Li		0.000112	M	Rh	<	0.000520	M	U	<	0.000520			
M	Cs		0.000643	M	Lu	<	0.000520	M	Ru	<	0.002000	M	V		0.001286			
O	Cu	<	0.008300	O	Mg		0.068488	i	S	<		M	W	<	0.009800			
M	Dy	<	0.002100	O	Mn		0.000913	M	Sb	<	0.003100	M	Y	<	0.001100			
M	Er	<	0.000520	M	Mo		0.005396	O	Sc	<	0.000950	M	Yb	<	0.000520			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3
Chemical Compatibility -Soluble in HCl, HNO3, v F and v 2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

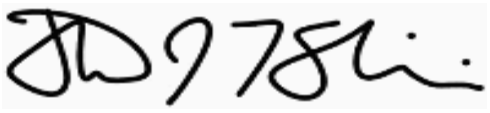
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K711973
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9987 ± 24 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **10004 ± 84 µg/mL**
ICP Assay NIST SRM 3141a Lot Number: 140813

Assay Method #3 **10007 ± 45 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.246220	M	Se	<	0.007900	O	Zn		0.018056
O	Al		0.001592	O	Fe		0.005909	M	Nb	<	0.000660	O	Si		0.011490	O	Zr	<	0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660				
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660				
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055				
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660				
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660				
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000				
O	Ca		0.031187	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660				
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660				
M	Ce	<	0.000660	s	K	<		M	Rb		0.476026	M	Tl	<	0.000660				
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660				
O	Cr		0.000541	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660				
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100				
M	Cu	<	0.002700	O	Mg		0.006237	O	S		0.027905	M	W	<	0.000660				
M	Dy	<	0.000660	O	Mn		0.000476	M	Sb	<	0.000660	M	Y	<	0.000660				
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)
Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

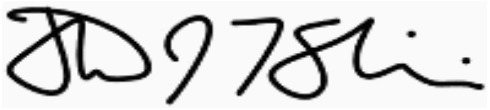
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	S2-MG704239
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10022 ± 62 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 140110

Assay Method #2 **10078 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10033 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002106	M	Eu	<	0.000910	O	Na		0.071075	O	Se	<	0.048000	O	Zn		0.003299
M	Al		0.003553	M	Fe		0.002538	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	<	0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460				
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300				
O	B		0.006853	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000279				
O	Ba		0.000964	M	Hf	<	0.000460	O	P		0.015230	M	Ta	<	0.000460				
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460				
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300				
O	Ca		0.053306	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460				
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700				
M	Ce	<	0.002300	M	K		0.048229	M	Rb		0.002411	M	Tl		0.003046				
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460				
M	Cr	<	0.002300	O	Li		0.027922	M	Rh	<	0.000460	M	U	<	0.000460				
M	Cs		0.001040	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460				
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460				
M	Dy	<	0.000460	O	Mn		0.015230	M	Sb		0.020814	O	Y	<	0.000720				
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 $Mg(H_2O)_6^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, and H_2SO_4 avoid HF, H_3PO_4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO_3 / LDPE container.

Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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Christiansburg, VA 24073 USA
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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	T2-CA716103
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	CaCO3
Starting Material Lot#:	2472
Starting Material Purity:	99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10005 ± 45 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **10005 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10005 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001200	M	Eu	<	0.001200	O	Na		0.006112	M	Se	<	0.024000	M	Zn	0.005362
M	Al		0.065419	O	Fe		0.009115	M	Nb	<	0.001200	O	Si		0.139417	O	Zr	< 0.006700
O	As	<	0.013000	M	Ga	<	0.015000	M	Nd	<	0.020000	M	Sm	<	0.001200			
M	Au	<	0.017000	M	Gd	<	0.004800	O	Ni		0.000793	M	Sn	<	0.003600			
O	B		0.001179	M	Ge	<	0.003600	M	Os	<	0.001200	M	Sr		0.081505			
O	Ba		0.002788	M	Hf	<	0.001200	O	P	<	0.041000	M	Ta	<	0.001200			
O	Be	<	0.000410	M	Hg	<	0.004800	M	Pb		0.001608	M	Tb	<	0.001200			
M	Bi		0.001608	M	Ho	<	0.001200	M	Pd	<	0.001200	M	Te	<	0.003600			
s	Ca	<		M	In	<	0.001200	M	Pr		0.000257	M	Th	<	0.001200			
O	Cd	<	0.001300	M	Ir	<	0.001200	M	Pt	<	0.003600	O	Ti	<	0.001900			
M	Ce		0.001029	O	K		0.009759	M	Rb	<	0.001200	M	Tl	<	0.001200			
O	Co		0.000418	M	La		0.001823	M	Re	<	0.001200	M	Tm	<	0.001200			
O	Cr		0.003324	O	Li	<	0.007300	M	Rh	<	0.001200	M	U		0.002144			
M	Cs		0.007399	M	Lu		0.000128	M	Ru	<	0.001200	M	V		0.001286			
O	Cu	<	0.011000	M	Mg		1.286934	O	S		0.055767	O	W	<	0.024000			
M	Dy	<	0.002400	O	Mn		0.004611	M	Sb	<	0.009600	O	Y		0.000536			
M	Er	<	0.002400	M	Mo		0.003539	O	Sc	<	0.001400	M	Yb	<	0.001200			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2

Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, vF, v3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.

Ca Containing Samples)Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

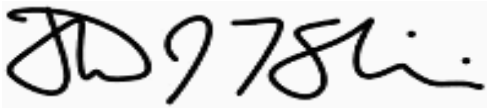
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	T2-NA717221
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2358 and 2453
Starting Material Purity:	99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9974 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **9977 ± 34 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 200413

Assay Method #3 **9987 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000930	M	Eu	<	0.000930	s	Na	<		M	Se	<	0.003800	O	Zn		0.000138
M	Al		0.004409	O	Fe		0.002393	M	Nb	<	0.000930	O	Si		0.056696	O	Zr	<	0.003200
O	As	<	0.023000	M	Ga	<	0.000930	M	Nd	<	0.000930	M	Sm	<	0.000930				
O	Au	<	0.004100	M	Gd	<	0.000930	O	Ni	<	0.003000	M	Sn	<	0.002800				
O	B		0.001385	M	Ge	<	0.004700	M	Os	<	0.000930	O	Sr		0.000251				
M	Ba		0.004031	M	Hf	<	0.000930	O	P		0.010205	M	Ta	<	0.000930				
O	Be	<	0.000130	M	Hg	<	0.000930	M	Pb	<	0.000930	M	Tb	<	0.000930				
M	Bi	<	0.000930	M	Ho	<	0.000930	M	Pd	<	0.000930	M	Te	<	0.001900				
O	Ca		0.176388	M	In	<	0.000930	M	Pr	<	0.000930	M	Th		0.000352				
O	Cd	<	0.000860	M	Ir	<	0.000930	M	Pt	<	0.000930	O	Ti		0.000592				
M	Ce	<	0.001900	O	K		0.302380	M	Rb	<	0.000930	M	Tl	<	0.000930				
O	Co	<	0.001800	O	La	<	0.002100	M	Re	<	0.000930	M	Tm	<	0.000930				
M	Cr	<	0.002800	O	Li		0.000031	M	Rh	<	0.000930	M	U	<	0.000930				
M	Cs	<	0.000930	M	Lu	<	0.000930	M	Ru	<	0.001900	O	V	<	0.001600				
O	Cu	<	0.003900	O	Mg		0.026458	O	S		0.040317	O	W	<	0.028000				
M	Dy	<	0.000930	O	Mn	<	0.000740	M	Sb	<	0.000930	O	Y	<	0.000860				
M	Er	<	0.000930	O	Mo	<	0.003600	O	Sc	<	0.000610	O	Yb	<	0.000250				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

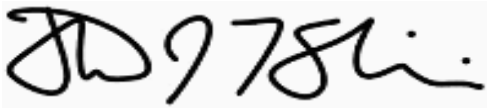
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	S2-U707914
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	P2-2322
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **998 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000270	M	Eu	<	0.000270	M	Na	<	0.011000	M	Se	<	0.009300	M	Zn	0.002358
M	Al	<	0.011000	M	Fe		0.003222	M	Nb	<	0.000270	M	Si	<	0.160000	M	Zr	< 0.001100
M	As	<	0.002400	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270			
M	Au	<	0.000270	M	Gd	<	0.000270	M	Ni	<	0.020000	M	Sn	<	0.011000			
M	B	<	0.000270	M	Ge	<	0.000800	M	Os	<	0.001900	M	Sr	<	0.000270			
M	Ba	<	0.003800	M	Hf	<	0.000270	i	P	<		M	Ta	<	0.000270			
M	Be	<	0.000270	M	Hg	<	0.000540	M	Pb	<	0.002200	M	Tb	<	0.000270			
M	Bi	<	0.000270	M	Ho	<	0.000270	M	Pd	<	0.000540	M	Te	<	0.003800			
M	Ca	<	0.140000	M	In	<	0.000270	M	Pr	<	0.000270	M	Th		0.000129			
M	Cd	<	0.000270	M	Ir	<	0.000270	M	Pt	<	0.000270	M	Ti	<	0.002700			
M	Ce	<	0.000540	O	K	<	0.250000	M	Rb	<	0.000800	M	Tl	<	0.000270			
M	Co	<	0.000800	M	La		0.000117	M	Re	<	0.064000	M	Tm	<	0.000270			
M	Cr		0.000943	M	Li	<	0.003000	M	Rh	<	0.000270	s	U	<				
M	Cs		0.000106	M	Lu	<	0.000270	M	Ru	<	0.000540	M	V	<	0.000540			
M	Cu	<	0.001100	M	Mg	<	0.003000	i	S	<		M	W	<	0.000540			
M	Dy	<	0.000270	M	Mn	<	0.006900	M	Sb	<	0.000270	M	Y	<	0.000270			
M	Er	<	0.000270	M	Mo	<	0.006400	M	Sc	<	0.000540	M	Yb	<	0.000270			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO22+(uranyl)
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-2
Lot Number:	T2-MEB719895
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	2.5 µg/mL ea: Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**2.499 ± 0.015 µg/mL**	**Molybdenum, Mo**	**2.500 ± 0.017 µg/mL**

Density: 1.014 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Sb	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

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10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

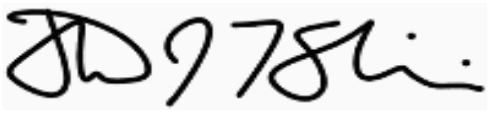
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-3
Lot Number:	T2-MEB719896
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	250 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

4 µg/mL ea:
Selenium,

2.5 µg/mL ea:

Thorium,	Thallium,
Uranium,	Vanadium,
Zinc,	Manganese,
Cadmium,	Cobalt,
Chromium,	Copper,
Arsenic,	Barium,
Beryllium,	Nickel,
Lead,	Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	250.0 ± 0.9 µg/mL	Arsenic, As	2.500 ± 0.018 µg/mL
Barium, Ba	2.501 ± 0.013 µg/mL	Beryllium, Be	2.501 ± 0.015 µg/mL
Cadmium, Cd	2.501 ± 0.013 µg/mL	Calcium, Ca	250.0 ± 1.3 µg/mL
Chromium, Cr	2.500 ± 0.015 µg/mL	Cobalt, Co	2.500 ± 0.014 µg/mL
Copper, Cu	2.500 ± 0.014 µg/mL	Iron, Fe	250.0 ± 1.0 µg/mL
Lead, Pb	2.500 ± 0.013 µg/mL	Magnesium, Mg	250.0 ± 1.3 µg/mL
Manganese, Mn	2.500 ± 0.014 µg/mL	Nickel, Ni	2.500 ± 0.014 µg/mL
Potassium, K	250.0 ± 1.2 µg/mL	Selenium, Se	4.002 ± 0.024 µg/mL
Silver, Ag	2.501 ± 0.017 µg/mL	Sodium, Na	250.0 ± 1.2 µg/mL
Thallium, Tl	2.500 ± 0.017 µg/mL	Thorium, Th	2.499 ± 0.013 µg/mL
Uranium, U	2.501 ± 0.015 µg/mL	Vanadium, V	2.500 ± 0.014 µg/mL
Zinc, Zn	2.500 ± 0.014 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Th	EDTA	928	928
Th	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

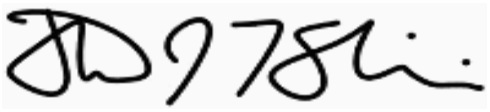
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-6020ICS-0A10
Lot Number:	T2-MEB719898
Matrix:	1.4% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Chloride,
	200 µg/mL ea: Carbon,
	100 µg/mL ea: Calcium, Aluminum, Iron, Potassium, Magnesium, Sodium, Phosphorus, Sulfur,
	2 µg/mL ea: Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**100.0 ± 0.4 µg/mL**	**Calcium, Ca**	**100.0 ± 0.5 µg/mL**
Carbon, C	**200.1 ± 0.5 µg/mL**	**Chloride, Cl**	**1 000 ± 5 µg/mL**
Iron, Fe	**100.0 ± 0.5 µg/mL**	**Magnesium, Mg**	**100.0 ± 0.5 µg/mL**
Molybdenum, Mo	**2.001 ± 0.014 µg/mL**	**Phosphorus, P**	**100.0 ± 0.6 µg/mL**
Potassium, K	**100.0 ± 0.5 µg/mL**	**Sodium, Na**	**100.0 ± 0.5 µg/mL**
Sulfur, S	**100.0 ± 0.5 µg/mL**	**Titanium, Ti**	**2.001 ± 0.015 µg/mL**

Density: 1.009 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
C	Acidimetric	84L	84L
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cl	Acidimetric	84L	84L
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mo	ICP Assay	3134	130418
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84L	84L
S	ICP Assay	traceable to 3154	P2-S680745
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

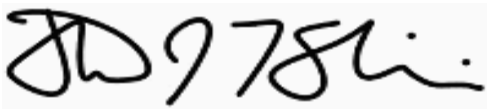
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SC1123B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-01 C	SDG:	22L0459
Sampled:	12/16/22 08:19	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-104
% Solids:	57.17	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:22
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.071 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	12.9	20	0.06	0.33	
7440-43-9	Cadmium	0.58	20	0.05	0.16	
7440-50-8	Copper	64.6	20	0.28	0.82	
7440-66-6	Zinc	131	20	4.8	9.8	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
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Total Metals

LDW23-SC1053C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-02 D	SDG:	22L0459
Sampled:	12/16/22 09:12	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-105
% Solids:	58.81	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:26
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.051 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	11.2	20	0.06	0.32	
7440-43-9	Cadmium	0.38	20	0.05	0.16	
7440-50-8	Copper	56.1	20	0.28	0.81	
7440-66-6	Zinc	116	20	4.7	9.7	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
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Total Metals

LDW23-SC1039C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-03 C	SDG:	22L0459
Sampled:	12/16/22 09:50	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-106
% Solids:	55.85	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:31
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.079 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	14.5	20	0.06	0.33	
7440-43-9	Cadmium	0.74	20	0.05	0.17	
7440-50-8	Copper	82.4	20	0.29	0.83	
7440-66-6	Zinc	153	20	4.8	10.0	

Analytical Resources, LLC
Analytical Chemists and Consultants

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INORGANIC ANALYSIS DATA SHEET
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Total Metals

LDW23-SC1007B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-04 C	SDG:	22L0459
Sampled:	12/16/22 10:43	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-107
% Solids:	55.23	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:35
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.057 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	12.6	20	0.07	0.34	
7440-43-9	Cadmium	0.37	20	0.05	0.17	
7440-50-8	Copper	64.2	20	0.30	0.86	
7440-66-6	Zinc	121	20	5.0	10.3	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SC1002C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-05 C	SDG:	22L0459
Sampled:	12/16/22 11:20	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-108
% Solids:	55.31	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:39
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.07 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	13.2	20	0.06	0.34	
7440-43-9	Cadmium	0.53	20	0.05	0.17	
7440-50-8	Copper	69.2	20	0.29	0.84	
7440-66-6	Zinc	125	20	4.9	10.1	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SC1070B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-06 D	SDG:	22L0459
Sampled:	12/16/22 12:01	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-109
% Solids:	55.76	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:44
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.046 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	14.6	20	0.07	0.34	
7440-43-9	Cadmium	1.33	20	0.05	0.17	
7440-50-8	Copper	64.4	20	0.30	0.86	
7440-66-6	Zinc	129	20	5.0	10.3	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SC1091B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-07 C	SDG:	22L0459
Sampled:	12/16/22 12:38	Prepared:	12/27/22 10:02	File ID:	XDT_m2230112-110
% Solids:	60.63	Preparation:	SWN EPA 3050B	Analyzed:	01/13/23 00:48
Batch:	BKL0608	Sequence:	SLA0147	Initial/Final:	1.087 g Wet / 50 mL
Instrument:	ICPMS2			Calibration:	GA00033

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	11.0	20	0.06	0.30	
7440-43-9	Cadmium	0.28	20	0.05	0.15	
7440-50-8	Copper	43.4	20	0.26	0.76	
7440-66-6	Zinc	90.6	20	4.4	9.1	

PREPARATION BATCH SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Batch: BKL0608 Batch Matrix: Solid Preparation: SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1123B	22L0459-01	XDT_m2230112-104	12/27/22 10:02	
LDW23-SC1053C	22L0459-02	XDT_m2230112-105	12/27/22 10:02	
LDW23-SC1039C	22L0459-03	XDT_m2230112-106	12/27/22 10:02	
LDW23-SC1007B	22L0459-04	XDT_m2230112-107	12/27/22 10:02	
LDW23-SC1002C	22L0459-05	XDT_m2230112-108	12/27/22 10:02	
LDW23-SC1070B	22L0459-06	XDT_m2230112-109	12/27/22 10:02	
LDW23-SC1091B	22L0459-07	XDT_m2230112-110	12/27/22 10:02	
Blank	BKL0608-BLK1	XDT_m2230109-026	12/27/22 10:02	
LCS	BKL0608-BS1	XDT_m2230109-027	12/27/22 10:02	

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Digestion Log

Analyst: AR Date: 12/29/22 Time: 1449-1940 Balance ID: BAL10

Matrix: Soil Block ID: 8 Block Temp: 90°C Thermometer: 70-4

ARI Sample ID	Btl #	pH<2	Prep Code: SWN Initial Wt (g) Vol (mL)	Prep Code: SWN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
22L199-43	A		1.022	50	1		
-44			1.020				
-45			1.082				
-46			1.073				
-47			1.063				
22L329-07	B		1.049				
-08			~~1.057~~ (1)				
-09	A		1.060		AR	12/29/22	
-10	B		1.057				
-11	A		1.086				
-12			1.019				
-13			1.027				
-14			1.017				
22L459-01	C		1.071				
-02	D		1.051				
-03	C		1.079				
-04			1.057				
-05			1.070				
-06	D		1.046				
-07	C		1.087				
BLL1208-blk	—		—				22L329-07
-bs	—		—				
-dup	—		1.048				
-MS	—		1.048				
-MSD	—		1.045				
-SRM	—		1.003				

Chemical/Reagent ID:

HNO_3: K115016 1:1 HNO_3: K117860 HCl: — H_2O_2: K100516

Tube Lot#: 22085065 Boiling Chip Lot#: — (DoD Only)

5061F
Version 007

(1) 1.069

Form I

METHOD BLANK DATA SHEET

EPA 6020B UCT-KED

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0459

Client: Anchor QEA, LLC | Project: AOC5 MR Phase 1

Batch: BKL0608 | Laboratory ID: BKL0608-BLK1 | Prepared: 12/27/22 10:02

Matrix: Solid | Preparation: SWN EPA 3050B | Analyzed: 01/09/23 15:59

Sequence: SLA0097 | Calibration: GA00024 | Instrument: ICPMS2

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic-75a	ND	20	0.04	0.20	U
7440-43-9	Cadmium-111	ND	20	0.03	0.10	U
7440-50-8	Copper-63	ND	20	0.17	0.50	U
7440-66-6	Zinc-66	ND	20	2.9	6.0	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020B UCT-KED

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/09/23 16:03
Batch:	BKL0608	Laboratory ID:	BKL0608-BS1
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Arsenic-75a	25.0	25.2		101	80 - 120
Cadmium-111	25.0	26.0		104	80 - 120
Copper-63	25.0	26.3		105	80 - 120
Zinc-66	80.0	81.9		102	80 - 120

* Indicates values outside of QC limits

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00024
Instrument: ICPMS2
Calibration Date: 01/09/2023 14:07

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	265	10	222.4	20	213.25	50	212.82	100	214.32
Cadmium-111	0	0	0.1	280	10	250.4	20	244.4	50	232.9	100	235.33
Copper-63	0	0	0.5	3544	10	3434	20	3180.65	50	3222.22	100	3191.95
Zinc-66	0	0	6	481	10	464	20	450.05	50	436.38	100	420.77

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00024	Instrument:	ICPMS2
Calibration Date:	01/09/2023 14:07		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	187.965	50.1	1.0000		0.998	
Cadmium-111	207.1717	49.7	0.9999		0.998	
Copper-63	2762.137	49.3	0.9999		0.998	
Zinc-66	375.3667	49.3	0.9997		0.998	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** SLAΦΦ97 **Cal:** GAΦΦΦ24

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	LΦ293		
		-CAL2	LΦ149		
		-CAL3	LΦ15Φ		
		-CAL4	LΦ151		
		-CAL5	LΦ294		
		-CAL6	LΦ153		
		-IBL1	—		
		-ICV1	LΦ243		
		-ICB1	LΦ293		
		-CCV1	LΦ294		
		-CCB1	LΦ293		
		-CRL1	LΦ149		
		-IFA1	K11871		Cr, S3?
		-IFB1	K11683		
		-HCV1	LΦ232		
		-HCV2	LΦ233		
		-IBL2	—		
		-CCV2			
		-CCB2			
		BKLΦ6Φ8-BLK1	SWN	20	
		-BS1			
		BKLΦΦ8Φ-BLK2			Pb only
		-BS2			
		22LΦ454-13	REN		Cu only

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ454-14	REN	5	Cu only
		↓ -Φ2	↓	10	↓
		22LΦ475-Φ1	↓	↓	Zn only
		22LΦ476-Φ1	↓	↓	↓
		SEQ-IBL3			
		-CCV3			
		↓ -CCB3			
		BLAΦ187-BLK1	REN		
		↓ -BS1	↓		
197→192		BLAΦ197-BLK1	↓		
↓		↓ -BS1	↓		
		23AΦΦ66-ΦIRE1	↓	5	Mn only
		23AΦ137-Φ1	↓	↓	
		23AΦ116-Φ1	↓	2	
		22LΦ199-43	SWN	20	Sc↑ - Not Needed
		↓ -44	↓	↓	↓ ↓
		SEQ-IBL4			
		-CCV4			
		↓ -CCB4			
		BLAΦ157-BLK1	REN		(Mn = ½RL) No Mn
		↓ -BS1	↓		↓
		23AΦΦΦ4-Φ1	↓	2	
		-Φ2	↓	↓	
		↓ -Φ3	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦΦΦ4-Φ4	REN	2	
		22LΦ199-45	SWN	20	Scf - Not Needed
		-46	↓	↓	
		-47	↓	↓	
		SEQ-IBL5			
		-CCV5			
		-CCB5			
	✓	BLAΦ157-BLK1	REN		Wrong sample run
		BLAΦ194-BLK1	↓		
		-BS1	↓		
		22LΦ329-Φ8	SWN	20	
		-Φ9	↓	↓	Scf - Not Needed
		-1Φ	↓	↓	↓ ↓
		-11	↓	↓	↓ ↓
		-12	↓	↓	
		-13	↓	↓	Scf - Not Needed
		-14	↓	↓	↓ ↓
		SEQ-CCV6			
		-CCB6			
	✓	-CAL1			
		-CCV7			
		-CCB7			
		22LΦ329-Φ7	SWN	20	Scf No Cr
		BKLΦ6Φ8-DUP1	↓	↓	↓ ↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ6Φ8-MS1	SWN	20	Sc↑ No Cr
		-MSD1	↓	↓	↓
		-PS1	↓	↓	60 mL K7409 ↓
		22HΦ525-Φ1	↓	↓	- Not Needed
		-Φ2	↓	↓	↓
		-Φ3	↓	↓	Tb sl. noisy - %R + Analytes OK
		-Φ4	↓	↓	↓
		-Φ5	↓	↓	↓
		SEQ-CCV8			
		↓ -CCB8			
		BKLΦΦΦ6-SRL2	SWN	250	Zn only
		22IΦΦ52-25	↓	50	↓
		BKLΦΦΦ6-DUP2	↓	↓	
		-MS2	↓	↓	Sc↑ - Not Needed / Zn %R↑
		-MSD2	↓	↓	
		-PS2	↓	↓	60 mL K7409 ↓
		22HΦ525-1Φ	↓	20	Sc↑ - Not Needed
		-11	↓	↓	↓
		-12	↓	↓	↓
		-13	↓	↓	↓
		SEQ-CCV9			
		↓ -CCB9			
		BKLΦΦ35-SRL2	SWN	250	Zn only
		22IΦ188-Φ2	↓	50	↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦΦ35-DUP2	SWN	50	Zn only
		-MS2			Zn %R↑
		-MSD2			
		-PS2			60mL K7409
		22HΦ525-14		20	Sc↑ - Not Needed
		-1519			
		-2Φ			
		-21			
		SEQ-CCVA			
		-CCBA			
		22LΦ516-Φ1	REN	10	Zn↑/Sc,Tb noisy — Cd,Co,Ni only
		SEQ-IBL6			
		BKLΦΦ8Φ-SRL2	SWN	250	Pb,Zn only
		22IΦ188-2Φ		50	
		BKLΦΦ8Φ-DUP2			
		-MS2			
		-MSD2			Zn %R↑
		-PS2			60mL K7409
		-SRM2		100	Pb only
		SEQ-IBL7			
		-CCVB			
		-CCBB			
		BKLΦ683-SRL2	SWN	250	Zn only
		22JΦΦ97-31		50	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ683-DUP2	SWN	50	Zn only
		-MS2			
		-MSD2			
		-PS2			60.ul K7409
		22HΦ525-22		20	Sc↑ - Not Needed
		-23			
		-24			
		-31			
		SEQ-CCVC			Ni 62 sl. noisy - Not Needed
		-CCBC			
	✓	-CAL1			
		-CCVD			
		-CCBD			
		22HΦ525-32	SWN	20	Sc↑ - Not Needed
		-33			Pb noisy No Pb
		-34			
		-35			
		-36			
		-38			
		-39			
		22HΦ529-Φ2			
		-12			
		-13			
		SEQ-CCVE			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBE			
		22HΦ529-14	SWN	20	Sc↑ - Not Needed
		-15			
		-16			Cu↑ Zn almost↑ No Cu, Zn
		-17			
		-18			
		-22			
		-23			
		-24			
		-25			
		-26			
		SEQ-CCVF			
		-CCBF			
		22HΦ529-3Φ	SWN	20	Sc↑ - Not Needed / Cu, Zn↑ No Cu, Zn
		-31			
		-32			
		-33			Sc↑ - Not Needed
		22IΦΦ52-Φ1			
		-Φ2			
		-Φ3			
		-Φ5			
		-Φ6			
		-11			
		SEQ-CCVG			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBG			
		22LΦ428-ΦIRE1	REN		Cu only
		23AΦΦΦ9-Φ4	↓		
		-Φ6			
		-Φ8			
		-1Φ			
		-12			
		-Φ2			
		BLAΦ194-DUP1			
		-MS1	↓		
		22IΦΦS2-13	SWN	20	Sc↑ - Not Needed
		SEQ-CCVH			
		-CCBH			
	✓	-CAL1			
		-CCVI			
		-CCBI			
		23AΦΦΦ9-Φ1	REN		
		-Φ3			
		-Φ5			
		-Φ7			
		-Φ9			
		-11			
		22LΦ612-Φ1	↓		
		~~BKL~~ MS 1/9/23			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLAΦ157-DUP1	REN		
		↓ -MS1	↓		Mn STL
		SEQ-IBL8			(Sc, Tb sl. noisy)
		↓ -CCVJ			
		↓ -CCBJ			
		23AΦΦ1Φ-Φ1	REN		
		23AΦΦ13-Φ1	↓	2	
		23AΦΦ16-Φ1		5	Zn ND No Zn
		↓ -Φ2			Zn↑ No Zn
		22LΦ522-Φ1		2	
		22LΦ536-Φ2			Zn↑ No Zn
		↓ -Φ1			↓ ↓
	✓	BLAΦ187-DUP1			Wrong QC Source
	✓	↓ -MS1	↓		↓
		SEQ-IBL9			(Cr53↑)
		↓ -CCVK			
		↓ -CCBK			
		22LΦ523-Φ1	REN		
		22LΦ54Φ-Φ1	↓		
		22LΦ542-Φ1			
		22LΦ543-Φ1			
		↓ -Φ2			
		↓ -Φ3		2	
		22LΦ545-Φ1	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ546-Φ1	REN		
		↓ -Φ2	↓		
		22LΦ547-Φ1	↓		Zn↑ No Zn
		SEQ-CCVL			
		↓ -CCBL			
		22LΦ549-Φ1	REN		
		↓ -Φ2	↓		
		22LΦ55Φ-Φ1	↓	2	
		22LΦ551-Φ1	↓		
		22LΦ552-Φ1	↓	2	
		22LΦ553-Φ1	↓		
		22LΦ554-Φ1	↓		
		↓ -Φ2	↓		
		22LΦ555-Φ1	↓		
		22LΦ556-Φ1	↓		
		SEQ-CCVM			
		↓ -CCBM			Tb Sl. noisy-%R ΦAnalytes OK
		Rinse/DI			
		MB 1/9/23			

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, January 09, 2023 12:54:15
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4860
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7877.3	7877.305	91.424	1.2	Standard
	In	114.9	64643.5	64643.462	238.075	0.4	Standard
	U	238.1	47383.8	47383.787	156.287	0.3	Standard
⌈	CeO	155.9	932.5	0.015	0.000	2.9	Standard
| >	Ce	139.9	62250.8	62250.803	118.292	0.2	Standard
⌊	Ce++	70.0	1513.6	0.024	0.000	2.0	Standard
	Bkgd	220.0	0.3	0.267	0.224	83.9	Standard

Current Conditions File Data

Current Value	Description
1.03	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.03	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/9/2023 12:54:12 PM
End Time: 1/9/2023 1:04:05 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 7877.30
Obtained Intensity (In 115): 64643.46
Obtained Intensity (U 238): 47383.79
Obtained Intensity (Bkgd 220): 0.27
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1513.61 / 62250.80)
Obtained Formula (CeO 156 / Ce 140): 0.015 (=932.50 / 62250.80)
Obtained RSD (Be 9): 0.0116
Obtained RSD (In 115): 0.0037
Obtained RSD (U 238): 0.0033

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
-0.18 mm	-0.18 mm	63018.69

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.03
Obtained Intensity (In 115): 63716.78
Obtained Formula (CeO 156 / Ce 140): 0.0186 (=1036.04 / 55570.87)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.701)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.704)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.91

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.98

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/9/2023 12:54:12 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 7877.30
		Obtained Intensity (In 115): 64643.46
		Obtained Intensity (U 238): 47383.79
		Obtained Intensity (Bkgd 220): 0.27
		Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1513.61 / 62250.80)
		Obtained Formula (CeO 156 / Ce 140): 0.015 (=932.50 / 62250.80)
		Obtained RSD (Be 9): 0.0116
		Obtained RSD (In 115): 0.0037
		Obtained RSD (U 238): 0.0033

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	-0.18 mm	-0.18 mm	63018.69

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 1/1.1/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 63716.78
		Obtained Formula (CeO 156 / Ce 140): 0.0186 (=1036.04 / 55570.87)
[Passed] Optimum value(s): 1.03

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.701)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.704)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.91

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	35977.2
Mg	24	41	-12.5	38259.2
In	115	41	-10	69818.2
Ce	140	41	-8	65670.6
Pb	208	41	-7	31510.7
U	238	41	-7	53463.9

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.98

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	26320.2
Mg	24	41	-12.5	22105.1
In	115	41	-11	41058.9
Ce	140	41	-8.5	49850.8
Pb	208	41	-6	26324.2
U	238	41	-6.5	39065.3

End Time: 1/9/2023 1:04:05 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, January 09, 2023 13:08:10
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4868
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	8379.1	8379.057	171.401	2.0	Standard
	In	114.9	68481.0	68481.031	817.063	1.2	Standard
	U	238.1	52863.0	52863.045	803.864	1.5	Standard
⌈	CeO	155.9	1122.3	0.018	0.001	5.9	Standard
| >	Ce	139.9	62978.9	62978.856	462.492	0.7	Standard
⌊	Ce++	70.0	1527.0	0.024	0.001	3.5	Standard
	Bkgd	220.0	0.0	0.033	0.075	223.6	Standard

Current Conditions File Data

Current Value	Description
1.03	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.03	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/9/2023 1:04:32 PM
End Time: 1/9/2023 1:10:14 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.993; Intercept = -13.78

KED Mode QID - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -12.94

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 8379.06
Obtained Intensity (In 115): 68481.03
Obtained Intensity (U 238): 52863.04
Obtained Intensity (Bkgd 220): 0.03
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1527.02 / 62978.86)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1122.31 / 62978.86)
Obtained RSD (Be 9): 0.0205
Obtained RSD (In 115): 0.0119
Obtained RSD (U 238): 0.0152

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/9/2023 1:04:32 PM

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.993; Intercept = -13.78

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13.5	35909.1
Mg	24	41	-12.5	35175.3
In	115	41	-9.5	69677.5
Ce	140	41	-8	64091.4
Pb	208	41	-7	32328.5
U	238	41	-7	53078.4

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -12.94

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	26997.5
Mg	24	41	-13	23399.1
In	115	41	-9.5	41203.3
Ce	140	41	-8.5	49706.3
Pb	208	41	-6	25041.9
U	238	41	-5.5	39177.6

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.

Intensity Criterion: Be 9 > 2000

Intensity Criterion: In 115 > 40000

Intensity Criterion: U 238 > 30000

Intensity Criterion: Bkgd 220 <= 1

Formula Criterion: Ce++ 70 / Ce 140 <= 0.03

Formula Criterion: CeO 156 / Ce 140 <= 0.025

RSD Criterion: Be 9.0122 < 0.05

RSD Criterion: In 114.904 < 0.05

RSD Criterion: U 238.05 < 0.05

```
        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 8379.06
                Obtained Intensity (In 115): 68481.03
                Obtained Intensity (U 238): 52863.04
                Obtained Intensity (Bkgd 220): 0.03
                Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1527.02 / 62978.86)
                Obtained Formula (CeO 156 / Ce 140): 0.018 (=1122.31 / 62978.86)
                Obtained RSD (Be 9): 0.0205
                Obtained RSD (In 115): 0.0119
                Obtained RSD (U 238): 0.0152

[Passed]  Optimum value(s): N/A

End Time: 1/9/2023 1:10:14 PM
```

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:07:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				34196	4	Standard
	Cl	**37**		ug/L				3578521	0	Standard
⎡>	**Sc**	**45**		ug/L				476701	2	Standard
⎢	**Cr**	**52**		ug/L				18596	1	Standard
⎢	**Cr**	**53**		ug/L				133	1	Standard
⎣	**Mn**	**55**		ug/L				801	3	Standard
⎡>	**Ge**	**72**		ug/L				24444	3	KED
⎢	**Ni**	**60**		ug/L				86	11	KED
⎢	**Ni**	**62**		ug/L				16	33	KED
⎢	**Cu**	**63**		ug/L				67	30	KED
⎢	**Cu**	**65**		ug/L				42	18	KED
⎢	**Zn**	**66**		ug/L				67	9	KED
⎢	**Zn**	**67**		ug/L				11	16	KED
⎣	**As**	**75**		ug/L				6	31	KED
	Y	**89**		ug/L				230853	2	Standard
	Kr	**83**		ug/L				65	12	Standard
⎡>	**In-1**	**115**		ug/L				6387	3	KED
⎢	**Cd**	**111**		ug/L				5	39	KED
⎣	**Cd**	**114**		ug/L				2	124	KED
⎡>	**Tb**	**159**		ug/L				540555	4	Standard
⎣	**Pb**	**208**		ug/L				256	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:11:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38817	4	Standard
	Cl	**37**		ug/L			3578521	3519195	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	468423	2	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.019	3	18596	28651	2	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.029	5	133	1223	3	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.014	2	801	14624	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	25182	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.049	9	86	570	9	KED
|	**Ni**	**62**	**0.500**	ug/L	0.083	16	16	80	13	KED
|	**Cu**	**63**	**0.500**	ug/L	0.007	1	67	1772	0	KED
|	**Cu**	**65**	**0.500**	ug/L	0.033	6	42	893	6	KED
|	**Zn**	**66**	**6.000**	ug/L	0.046	0	67	2886	1	KED
|	**Zn**	**67**	**6.000**	ug/L	0.125	2	11	431	2	KED
⌊	**As**	**75**	**0.200**	ug/L	0.030	15	6	53	13	KED
	Y	**89**		ug/L			230853	226304	1	Standard
	Kr	**83**		ug/L			65	56	21	Standard
⌈>	**In-1**	**115**		ug/L			6387	6656	0	KED
|	**Cd**	**111**	**0.100**	ug/L	0.024	23	5	28	19	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.012	12	2	67	11	KED
⌈>	**Tb**	**159**		ug/L			540555	542831	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.004	4	256	4784	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:15:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40740	1	Standard
	Cl	**37**		ug/L			3578521	3494818	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	484571	1	Standard
|	**Cr**	**52**	**9.997**	ug/L	0.321	3	18596	213767	1	Standard
|	**Cr**	**53**	**10.000**	ug/L	0.185	1	133	22750	0	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.123	1	801	285680	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	24916	2	KED
|	**Ni**	**60**	**10.005**	ug/L	0.114	1	86	11813	1	KED
|	**Ni**	**62**	**10.008**	ug/L	0.089	0	16	1878	3	KED
|	**Cu**	**63**	**10.000**	ug/L	0.065	0	67	34340	1	KED
|	**Cu**	**65**	**10.000**	ug/L	0.127	1	42	16678	3	KED
|	**Zn**	**66**	**9.957**	ug/L	0.196	1	67	4640	3	KED
|	**Zn**	**67**	**10.390**	ug/L	0.697	6	11	817	6	KED
⌊	**As**	**75**	**10.000**	ug/L	0.279	2	6	2224	1	KED
	Y	**89**		ug/L			230853	234638	2	Standard
	Kr	**83**		ug/L			65	53	4	Standard
⌈>	**In-1**	**115**		ug/L			6387	6682	0	KED
|	**Cd**	**111**	**10.000**	ug/L	0.277	2	5	2504	2	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.078	0	2	5990	0	KED
⌈>	**Tb**	**159**		ug/L			540555	554130	2	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.377	3	256	471120	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:20:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40191	3	Standard
	Cl	**37**		ug/L			3578521	3565622	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	474697	0	Standard
⎢	**Cr**	**52**	**19.981**	ug/L	0.115	0	18596	398674	0	Standard
⎢	**Cr**	**53**	**19.978**	ug/L	0.466	2	133	44199	1	Standard
⎣	**Mn**	**55**	**20.053**	ug/L	0.173	0	801	566409	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	24027	1	KED
⎢	**Ni**	**60**	**19.894**	ug/L	0.131	0	86	22107	2	KED
⎢	**Ni**	**62**	**19.997**	ug/L	0.520	2	16	3600	1	KED
⎢	**Cu**	**63**	**19.840**	ug/L	0.073	0	67	63613	1	KED
⎢	**Cu**	**65**	**20.006**	ug/L	0.337	1	42	32170	1	KED
⎢	**Zn**	**66**	**20.047**	ug/L	0.483	2	67	9001	2	KED
⎢	**Zn**	**67**	**19.880**	ug/L	0.213	1	11	1472	2	KED
⎣	**As**	**75**	**19.980**	ug/L	0.259	1	6	4265	2	KED
	Y	**89**		ug/L			230853	228603	0	Standard
	Kr	**83**		ug/L			65	46	21	Standard
⎡>	**In-1**	**115**		ug/L			6387	6656	0	KED
⎢	**Cd**	**111**	**19.922**	ug/L	0.068	0	5	4888	0	KED
⎣	**Cd**	**114**	**20.022**	ug/L	0.697	3	2	11995	2	KED
⎡>	**Tb**	**159**		ug/L			540555	552228	3	Standard
⎣	**Pb**	**208**	**19.967**	ug/L	0.583	2	256	931044	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:25:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32467	1	Standard
	Cl	**37**		ug/L			3578521	3716177	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	460271	2	Standard
⎢	**Cr**	**52**	**50.013**	ug/L	0.707	1	18596	941666	1	Standard
⎢	**Cr**	**53**	**49.979**	ug/L	1.016	2	133	106774	0	Standard
⎣	**Mn**	**55**	**49.849**	ug/L	0.789	1	801	1343516	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	24452	2	KED
⎢	**Ni**	**60**	**49.596**	ug/L	1.137	2	86	53766	0	KED
⎢	**Ni**	**62**	**49.792**	ug/L	1.643	3	16	8911	1	KED
⎢	**Cu**	**63**	**49.904**	ug/L	1.627	3	67	161111	2	KED
⎢	**Cu**	**65**	**49.750**	ug/L	1.209	2	42	79340	0	KED
⎢	**Zn**	**66**	**49.629**	ug/L	1.262	2	67	21819	1	KED
⎢	**Zn**	**67**	**49.833**	ug/L	0.789	1	11	3681	3	KED
⎣	**As**	**75**	**49.840**	ug/L	1.170	2	6	10641	0	KED
	Y	**89**		ug/L			230853	227806	1	Standard
	Kr	**83**		ug/L			65	61	20	Standard
⎡>	**In-1**	**115**		ug/L			6387	6472	2	KED
⎢	**Cd**	**111**	**49.806**	ug/L	1.334	2	5	11645	0	KED
⎣	**Cd**	**114**	**49.760**	ug/L	1.337	2	2	28297	0	KED
⎡>	**Tb**	**159**		ug/L			540555	551403	3	Standard
⎣	**Pb**	**208**	**49.596**	ug/L	1.314	2	256	2219143	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:31:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38647	1	Standard
	Cl	**37**		ug/L			3578521	3776465	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	467709	4	Standard
⎢	**Cr**	**52**	**99.772**	ug/L	1.970	1	18596	1875966	2	Standard
⎢	**Cr**	**53**	**100.062**	ug/L	3.731	3	133	217453	2	Standard
⎣	**Mn**	**55**	**99.560**	ug/L	1.432	1	801	2686216	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23908	1	KED
⎢	**Ni**	**60**	**100.265**	ug/L	1.751	1	86	107154	0	KED
⎢	**Ni**	**62**	**100.063**	ug/L	2.075	2	16	17535	0	KED
⎢	**Cu**	**63**	**100.256**	ug/L	1.256	1	67	319195	0	KED
⎢	**Cu**	**65**	**100.250**	ug/L	2.886	2	42	157597	1	KED
⎢	**Zn**	**66**	**99.534**	ug/L	2.599	2	67	42077	0	KED
⎢	**Zn**	**67**	**100.044**	ug/L	3.822	3	11	7222	2	KED
⎣	**As**	**75**	**100.610**	ug/L	3.167	3	6	21432	1	KED
	Y	**89**		ug/L			230853	227537	4	Standard
	Kr	**83**		ug/L			65	95	3	Standard
⎡>	**In-1**	**115**		ug/L			6387	6490	1	KED
⎢	**Cd**	**111**	**100.087**	ug/L	1.769	1	5	23533	0	KED
⎣	**Cd**	**114**	**100.040**	ug/L	3.583	3	2	57119	1	KED
⎡>	**Tb**	**159**		ug/L			540555	552023	4	Standard
⎣	**Pb**	**208**	**100.690**	ug/L	2.955	2	256	4615322	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:38:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32272	2	Standard
	Cl	**37**		ug/L			3578521	3564314	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	456612	3	Standard
|	**Cr**	**52**	**0.033**	ug/L	0.021	64	18596	18403	1	Standard
|	**Cr**	**53**	**-0.007**	ug/L	0.002	35	133	113	7	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.000	33	801	744	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	24027	0	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.009	197	86	80	12	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.011	40	16	11	16	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	40	67	53	10	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.004	43	42	27	21	KED
|	**Zn**	**66**	**0.013**	ug/L	0.056	417	67	71	32	KED
|	**Zn**	**67**	**0.038**	ug/L	0.015	38	11	13	7	KED
⌊	**As**	**75**	**0.017**	ug/L	0.013	75	6	10	26	KED
	Y	**89**		ug/L			230853	220679	0	Standard
	Kr	**83**		ug/L			65	65	14	Standard
⌈>	**In-1**	**115**		ug/L			6387	6633	3	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.005	61	5	3	31	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	1234	2	2	39	KED
⌈>	**Tb**	**159**		ug/L			540555	536786	3	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	101	256	243	5	Standard

Sample Information

Sample Date/Time: Monday, January 09, 2023 14:31:44
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.040	0.50	10	20	50	100
Cr	53	**1.0000**	0.005	0.50	10	20	50	100
Mn	55	**1.0000**	0.058	0.50	10	20	50	100
Ge	72							
Ni	60	**0.9999**	0.045	0.50	10	20	50	100
Ni	62	**1.0000**	0.007	0.50	10	20	50	100
Cu	63	**1.0000**	0.133	0.50	10	20	50	100
Cu	65	**1.0000**	0.066	0.50	10	20	50	100
Zn	66	**0.9999**	0.018	6.00	10	20	50	100
Zn	67	**1.0000**	0.003	6.00	10	20	50	100
As	75	**0.9999**	0.009	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.036	0.10	10	20	50	100
Cd	114	**1.0000**	0.088	0.10	10	20	50	100
Tb	159							
Pb	208	**0.9999**	0.083	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:45:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40786	0	Standard
	Cl	**37**		ug/L			3578521	3843677	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	480771	2	Standard
|	**Cr**	**52**	**49.787**	ug/L	0.809	1	18596	972046	2	Standard
|	**Cr**	**53**	**49.470**	ug/L	0.879	1	133	110654	2	Standard
⌊	**Mn**	**55**	**50.598**	ug/L	0.758	1	801	1404133	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	24498	2	KED
|	**Ni**	**60**	**50.483**	ug/L	0.573	1	86	55341	2	KED
|	**Ni**	**62**	**51.318**	ug/L	0.367	0	16	9224	1	KED
|	**Cu**	**63**	**50.128**	ug/L	1.072	2	67	163576	2	KED
|	**Cu**	**65**	**50.843**	ug/L	0.690	1	42	81935	1	KED
|	**Zn**	**66**	**49.855**	ug/L	1.360	2	67	21628	0	KED
|	**Zn**	**67**	**47.602**	ug/L	0.296	0	11	3528	1	KED
⌊	**As**	**75**	**47.022**	ug/L	1.054	2	6	10268	0	KED
	Y	**89**		ug/L			230853	234516	2	Standard
	Kr	**83**		ug/L			65	62	15	Standard
⌈>	**In-1**	**115**		ug/L			6387	6662	1	KED
|	**Cd**	**111**	**50.117**	ug/L	1.037	2	5	12099	1	KED
⌊	**Cd**	**114**	**49.409**	ug/L	0.747	1	2	28971	2	KED
⌈>	**Tb**	**159**		ug/L			540555	565959	4	Standard
⌊	**Pb**	**208**	**49.764**	ug/L	2.005	4	256	2338061	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:53:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32454	2	Standard
	Cl	**37**		ug/L			3578521	3485295	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	466733	1	Standard
⎢	**Cr**	**52**	**0.007**	ug/L	0.031	434	18596	18334	1	Standard
⎢	**Cr**	**53**	**-0.003**	ug/L	0.002	69	133	124	4	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.001	215	801	766	3	Standard
⎡>	**Ge**	**72**		ug/L			24444	23033	1	KED
⎢	**Ni**	**60**	**0.006**	ug/L	0.018	298	86	87	21	KED
⎢	**Ni**	**62**	**0.005**	ug/L	0.042	773	16	16	43	KED
⎢	**Cu**	**63**	**-0.004**	ug/L	0.003	72	67	52	14	KED
⎢	**Cu**	**65**	**-0.005**	ug/L	0.003	59	42	31	15	KED
⎢	**Zn**	**66**	**0.008**	ug/L	0.010	120	67	66	4	KED
⎢	**Zn**	**67**	**-0.001**	ug/L	0.086	11541	11	10	56	KED
⎣	**As**	**75**	**0.009**	ug/L	0.008	85	6	8	17	KED
	Y	**89**		ug/L			230853	229503	2	Standard
	Kr	**83**		ug/L			65	43	24	Standard
⎡>	**In-1**	**115**		ug/L			6387	6370	2	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.006	50	5	2	65	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.004	355	2	1	111	KED
⎡>	**Tb**	**159**		ug/L			540555	542547	3	Standard
⎣	**Pb**	**208**	**-0.000**	ug/L	0.000	174	256	249	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:57:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	31531	3	Standard
	Cl	**37**		ug/L			3578521	3763953	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	466768	2	Standard
|	**Cr**	**52**	**50.184**	ug/L	1.833	3	18596	950918	2	Standard
|	**Cr**	**53**	**49.150**	ug/L	0.936	1	133	106710	0	Standard
⌊	**Mn**	**55**	**50.141**	ug/L	0.727	1	801	1350699	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23938	3	KED
|	**Ni**	**60**	**49.815**	ug/L	0.710	1	86	53346	3	KED
|	**Ni**	**62**	**48.460**	ug/L	0.830	1	16	8512	3	KED
|	**Cu**	**63**	**48.874**	ug/L	1.270	2	67	155835	4	KED
|	**Cu**	**65**	**48.695**	ug/L	1.588	3	42	76641	2	KED
|	**Zn**	**66**	**49.464**	ug/L	1.551	3	67	20963	2	KED
|	**Zn**	**67**	**47.809**	ug/L	0.769	1	11	3464	5	KED
⌊	**As**	**75**	**49.303**	ug/L	0.930	1	6	10520	3	KED
	Y	**89**		ug/L			230853	227527	1	Standard
	Kr	**83**		ug/L			65	61	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6443	0	KED
|	**Cd**	**111**	**48.789**	ug/L	0.450	0	5	11394	0	KED
⌊	**Cd**	**114**	**49.216**	ug/L	0.940	1	2	27911	1	KED
⌈>	**Tb**	**159**		ug/L			540555	554668	3	Standard
⌊	**Pb**	**208**	**49.212**	ug/L	1.696	3	256	2266949	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:04:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32390	2	Standard
	Cl	**37**		ug/L			3578521	3476432	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	453367	1	Standard
⎢	**Cr**	**52**	**0.010**	ug/L	0.013	135	18596	17857	0	Standard
⎢	**Cr**	**53**	**-0.007**	ug/L	0.004	59	133	111	9	Standard
⎣	**Mn**	**55**	**-0.002**	ug/L	0.001	60	801	721	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	22661	3	KED
⎢	**Ni**	**60**	**0.008**	ug/L	0.020	251	86	87	19	KED
⎢	**Ni**	**62**	**0.012**	ug/L	0.054	446	16	17	48	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.002	62	67	54	13	KED
⎢	**Cu**	**65**	**-0.009**	ug/L	0.006	72	42	26	37	KED
⎢	**Zn**	**66**	**-0.020**	ug/L	0.016	82	67	54	14	KED
⎢	**Zn**	**67**	**-0.007**	ug/L	0.028	412	11	10	21	KED
⎣	**As**	**75**	**0.003**	ug/L	0.010	348	6	6	34	KED
	Y	**89**		ug/L			230853	220617	1	Standard
	Kr	**83**		ug/L			65	68	37	Standard
⎡>	**In-1**	**115**		ug/L			6387	6506	2	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.003	20	5	2	24	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.003	337	2	1	101	KED
⎡>	**Tb**	**159**		ug/L			540555	535661	4	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.001	6530	256	253	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:09:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	35948	1	Standard
	Cl	**37**		ug/L			3578521	3574068	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	463765	1	Standard
|	**Cr**	**52**	**0.523**	ug/L	0.027	5	18596	27754	2	Standard
|	**Cr**	**53**	**0.510**	ug/L	0.033	6	133	1229	7	Standard
⌊	**Mn**	**55**	**0.519**	ug/L	0.015	2	801	14652	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23422	2	KED
|	**Ni**	**60**	**0.418**	ug/L	0.031	7	86	520	6	KED
|	**Ni**	**62**	**0.511**	ug/L	0.040	7	16	103	7	KED
|	**Cu**	**63**	**0.509**	ug/L	0.016	3	67	1653	3	KED
|	**Cu**	**65**	**0.500**	ug/L	0.013	2	42	810	0	KED
|	**Zn**	**66**	**6.233**	ug/L	0.466	7	67	2642	7	KED
|	**Zn**	**67**	**5.398**	ug/L	0.365	6	11	392	7	KED
⌊	**As**	**75**	**0.208**	ug/L	0.013	6	6	49	4	KED
	Y	**89**		ug/L			230853	232415	3	Standard
	Kr	**83**		ug/L			65	60	6	Standard
⌈>	**In-1**	**115**		ug/L			6387	6420	2	KED
|	**Cd**	**111**	**0.097**	ug/L	0.014	13	5	27	12	KED
⌊	**Cd**	**114**	**0.088**	ug/L	0.015	17	2	51	13	KED
⌈>	**Tb**	**159**		ug/L			540555	540991	3	Standard
⌊	**Pb**	**208**	**0.103**	ug/L	0.008	7	256	4883	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:16:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	133365	2	Standard
	Cl	**37**		ug/L			3578521	9574072	0	Standard
>	**Sc**	**45**		ug/L			476701	478682	1	Standard
	Cr	**52**	**0.792**	ug/L	0.020	2	18596	33775	2	Standard
	Cr	**53**	**4.268**	ug/L	0.040	0	133	9627	0	Standard
	Mn	**55**	**0.093**	ug/L	0.001	0	801	3384	1	Standard
>	**Ge**	**72**		ug/L			24444	22875	0	KED
	Ni	**60**	**0.027**	ug/L	0.005	17	86	107	4	KED
	Ni	**62**	**0.101**	ug/L	0.060	59	16	32	31	KED
	Cu	**63**	**0.022**	ug/L	0.006	26	67	130	14	KED
	Cu	**65**	**0.019**	ug/L	0.006	29	42	68	12	KED
	Zn	**66**	**0.180**	ug/L	0.031	17	67	135	9	KED
	Zn	**67**	**0.121**	ug/L	0.075	61	11	19	26	KED
	As	**75**	**0.030**	ug/L	0.010	33	6	12	16	KED
	Y	**89**		ug/L			230853	228373	0	Standard
	Kr	**83**		ug/L			65	122	20	Standard
>	**In-1**	**115**		ug/L			6387	6624	0	KED
	Cd	**111**	**0.034**	ug/L	0.018	53	5	13	32	KED
	Cd	**114**	**0.050**	ug/L	0.017	33	2	31	31	KED
>	**Tb**	**159**		ug/L			540555	559407	2	Standard
	Pb	**208**	**0.027**	ug/L	0.002	7	256	1519	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:20:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	138783	3	Standard
	Cl	**37**		ug/L			3578521	9966369	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	485486	2	Standard
⎢	**Cr**	**52**	**20.026**	ug/L	0.174	0	18596	406193	2	Standard
⎢	**Cr**	**53**	**23.495**	ug/L	0.073	0	133	53138	2	Standard
⎣	**Mn**	**55**	**19.655**	ug/L	0.115	0	801	551293	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23742	0	KED
⎢	**Ni**	**60**	**20.042**	ug/L	0.397	1	86	21341	2	KED
⎢	**Ni**	**62**	**19.764**	ug/L	0.554	2	16	3453	3	KED
⎢	**Cu**	**63**	**19.545**	ug/L	0.202	1	67	61861	1	KED
⎢	**Cu**	**65**	**19.953**	ug/L	0.161	0	42	31194	1	KED
⎢	**Zn**	**66**	**18.915**	ug/L	0.159	0	67	7995	0	KED
⎢	**Zn**	**67**	**16.667**	ug/L	1.048	6	11	1204	5	KED
⎣	**As**	**75**	**19.326**	ug/L	0.115	0	6	4095	0	KED
	Y	**89**		ug/L			230853	229966	1	Standard
	Kr	**83**		ug/L			65	137	27	Standard
⎡>	**In-1**	**115**		ug/L			6387	6521	0	KED
⎢	**Cd**	**111**	**18.736**	ug/L	0.428	2	5	4431	1	KED
⎣	**Cd**	**114**	**18.778**	ug/L	0.504	2	2	10778	1	KED
⎡>	**Tb**	**159**		ug/L			540555	573723	2	Standard
⎣	**Pb**	**208**	**0.023**	ug/L	0.001	5	256	1349	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:25:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39074	3	Standard
	Cl	**37**		ug/L			3578521	3856935	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	456409	3	Standard
⎢	**Cr**	**52**	**193.343**	ug/L	2.966	1	18596	3531440	1	Standard
⎢	**Cr**	**53**	**198.015**	ug/L	5.129	2	133	419899	1	Standard
⎣	**Mn**	**55**	**191.807**	ug/L	3.718	1	801	5049101	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	22512	1	KED
⎢	**Ni**	**60**	**199.073**	ug/L	3.055	1	86	200278	1	KED
⎢	**Ni**	**62**	**192.794**	ug/L	2.871	1	16	31802	0	KED
⎢	**Cu**	**63**	**191.523**	ug/L	1.939	1	67	574163	0	KED
⎢	**Cu**	**65**	**193.460**	ug/L	4.472	2	42	286399	1	KED
⎢	**Zn**	**66**	**188.006**	ug/L	2.903	1	67	74799	0	KED
⎢	**Zn**	**67**	**186.011**	ug/L	2.602	1	11	12639	0	KED
⎣	**As**	**75**	**195.717**	ug/L	2.015	1	6	39265	0	KED
	Y	**89**		ug/L			230853	223300	2	Standard
	Kr	**83**		ug/L			65	142	11	Standard
⎡>	**In-1**	**115**		ug/L			6387	6273	2	KED
⎢	**Cd**	**111**	**190.924**	ug/L	4.507	2	5	43380	0	KED
⎣	**Cd**	**114**	**194.680**	ug/L	5.687	2	2	107437	1	KED
⎡>	**Tb**	**159**		ug/L			540555	552314	3	Standard
⎣	**Pb**	**208**	**195.436**	ug/L	5.153	2	256	8964706	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:30:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38343	3	Standard
	Cl	**37**		ug/L			3578521	3744087	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	417544	5	Standard
|	**Cr**	**52**	**294.258**	ug/L	9.636	3	18596	4904389	2	Standard
|	**Cr**	**53**	**299.702**	ug/L	5.314	1	133	581328	4	Standard
⌊	**Mn**	**55**	**290.052**	ug/L	11.115	3	801	6979432	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	22282	0	KED
|	**Ni**	**60**	**287.935**	ug/L	4.653	1	86	286696	1	KED
|	**Ni**	**62**	**289.121**	ug/L	9.466	3	16	47202	3	KED
|	**Cu**	**63**	**283.347**	ug/L	3.513	1	67	840765	0	KED
|	**Cu**	**65**	**277.320**	ug/L	6.276	2	42	406371	2	KED
|	**Zn**	**66**	**273.038**	ug/L	5.484	2	67	107507	2	KED
|	**Zn**	**67**	**275.612**	ug/L	6.869	2	11	18534	2	KED
⌊	**As**	**75**	**290.018**	ug/L	2.768	0	6	57589	0	KED
	Y	**89**		ug/L			230853	203066	6	Standard
	Kr	**83**		ug/L			65	189	25	Standard
⌈>	**In-1**	**115**		ug/L			6387	6115	1	KED
|	**Cd**	**111**	**277.844**	ug/L	0.889	0	5	61559	0	KED
⌊	**Cd**	**114**	**281.147**	ug/L	1.593	0	2	151309	0	KED
⌈>	**Tb**	**159**		ug/L			540555	511728	6	Standard
⌊	**Pb**	**208**	**296.866**	ug/L	18.243	6	256	12588201	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:37:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38232	2	Standard
	Cl	**37**		ug/L			3578521	3767099	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	473134	1	Standard
⎢	**Cr**	**52**	**0.028**	ug/L	0.012	41	18596	18982	0	Standard
⎢	**Cr**	**53**	**0.058**	ug/L	0.007	12	133	258	5	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.001	43	801	721	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	24085	0	KED
⎢	**Ni**	**60**	**-0.061**	ug/L	0.008	12	86	19	43	KED
⎢	**Ni**	**62**	**-0.056**	ug/L	0.013	22	16	6	34	KED
⎢	**Cu**	**63**	**0.018**	ug/L	0.002	10	67	124	4	KED
⎢	**Cu**	**65**	**0.013**	ug/L	0.009	64	42	62	21	KED
⎢	**Zn**	**66**	**0.014**	ug/L	0.039	272	67	72	22	KED
⎢	**Zn**	**67**	**0.020**	ug/L	0.015	74	11	12	8	KED
⎣	**As**	**75**	**0.014**	ug/L	0.012	83	6	9	25	KED
	Y	**89**		ug/L			230853	226205	2	Standard
	Kr	**83**		ug/L			65	48	14	Standard
⎡>	**In-1**	**115**		ug/L			6387	6471	1	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.004	30	5	1	50	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.002	152	2	3	34	KED
⎡>	**Tb**	**159**		ug/L			540555	546900	2	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	22	256	295	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:43:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33964	2	Standard
	Cl	**37**		ug/L			3578521	3844252	4	Standard
⎡>	**Sc**	**45**		ug/L			476701	480369	1	Standard
⎢	**Cr**	**52**	**48.855**	ug/L	0.513	1	18596	953430	1	Standard
⎢	**Cr**	**53**	**49.077**	ug/L	0.428	0	133	109674	0	Standard
⎣	**Mn**	**55**	**50.517**	ug/L	0.452	0	801	1400700	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	24890	0	KED
⎢	**Ni**	**60**	**49.269**	ug/L	0.541	1	86	54872	1	KED
⎢	**Ni**	**62**	**49.893**	ug/L	1.722	3	16	9113	3	KED
⎢	**Cu**	**63**	**49.049**	ug/L	0.590	1	67	162640	1	KED
⎢	**Cu**	**65**	**49.669**	ug/L	0.938	1	42	81338	1	KED
⎢	**Zn**	**66**	**50.175**	ug/L	0.106	0	67	22123	0	KED
⎢	**Zn**	**67**	**50.188**	ug/L	1.538	3	11	3779	3	KED
⎣	**As**	**75**	**49.548**	ug/L	0.333	0	6	10996	0	KED
	Y	**89**		ug/L			230853	235771	3	Standard
	Kr	**83**		ug/L			65	59	11	Standard
⎡>	**In-1**	**115**		ug/L			6387	6848	2	KED
⎢	**Cd**	**111**	**49.936**	ug/L	1.831	3	5	12386	0	KED
⎣	**Cd**	**114**	**50.024**	ug/L	2.132	4	2	30130	1	KED
⎡>	**Tb**	**159**		ug/L			540555	563345	3	Standard
⎣	**Pb**	**208**	**49.922**	ug/L	1.242	2	256	2335962	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:50:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33015	0	Standard
	Cl	**37**		ug/L			3578521	3704542	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	474926	1	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.027	1536	18596	18496	3	Standard
⎢	**Cr**	**53**	**0.034**	ug/L	0.005	15	133	207	4	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.001	54	801	726	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	24129	0	KED
⎢	**Ni**	**60**	**-0.009**	ug/L	0.004	46	86	75	5	KED
⎢	**Ni**	**62**	**0.005**	ug/L	0.011	219	16	17	11	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.002	62	67	56	11	KED
⎢	**Cu**	**65**	**-0.008**	ug/L	0.004	50	42	29	19	KED
⎢	**Zn**	**66**	**-0.004**	ug/L	0.022	568	67	64	13	KED
⎢	**Zn**	**67**	**-0.024**	ug/L	0.025	103	11	9	20	KED
⎣	**As**	**75**	**-0.005**	ug/L	0.015	305	6	5	57	KED
	Y	**89**		ug/L			230853	233305	1	Standard
	Kr	**83**		ug/L			65	44	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6405	1	KED
⎢	**Cd**	**111**	**-0.007**	ug/L	0.010	153	5	3	68	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.007	679	2	2	132	KED
⎡>	**Tb**	**159**		ug/L			540555	547515	2	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.001	160	256	233	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 15:59:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	46324	2	Standard
	Cl	37		ug/L			3578521	3738945	3	Standard
⌈>	Sc	45		ug/L			476701	484141	3	Standard
|	Cr	52	0.059	ug/L	0.011	18	18596	20016	3	Standard
|	Cr	53	0.032	ug/L	0.004	13	133	206	1	Standard
⌊	Mn	55	0.003	ug/L	0.003	90	801	893	4	Standard
⌈>	Ge	72		ug/L			24444	24924	1	KED
|	Ni	60	-0.064	ug/L	0.005	8	86	17	33	KED
|	Ni	62	-0.068	ug/L	0.012	18	16	4	49	KED
|	Cu	63	-0.009	ug/L	0.001	5	67	39	5	KED
|	Cu	65	-0.012	ug/L	0.003	26	42	24	22	KED
|	Zn	66	-0.059	ug/L	0.014	22	67	42	14	KED
|	Zn	67	-0.054	ug/L	0.026	48	11	7	25	KED
⌊	As	75	-0.006	ug/L	0.008	129	6	5	35	KED
	Y	89		ug/L			230853	233132	3	Standard
	Kr	83		ug/L			65	46	20	Standard
⌈>	In-1	115		ug/L			6387	7032	1	KED
|	Cd	111	-0.016	ug/L	0.002	14	5	1	34	KED
⌊	Cd	114	0.000	ug/L	0.006	1324	2	2	134	KED
⌈>	Tb	159		ug/L			540555	554009	4	Standard
⌊	Pb	208	-0.002	ug/L	0.000	15	256	178	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:03:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	40988	0	Standard
	Cl	37		ug/L			3578521	3629257	0	Standard
⌈>	Sc	45		ug/L			476701	459012	2	Standard
|	Cr	52	26.943	ug/L	0.797	2	18596	510278	0	Standard
|	Cr	53	26.559	ug/L	0.543	2	133	56774	2	Standard
⌊	Mn	55	27.237	ug/L	0.754	2	801	721705	0	Standard
⌈>	Ge	72		ug/L			24444	23613	0	KED
|	Ni	60	26.460	ug/L	0.460	1	86	27993	1	KED
|	Ni	62	26.261	ug/L	0.868	3	16	4557	2	KED
|	Cu	63	26.325	ug/L	0.339	1	67	82836	0	KED
|	Cu	65	27.041	ug/L	0.490	1	42	42027	1	KED
|	Zn	66	81.867	ug/L	1.187	1	67	34202	0	KED
|	Zn	67	76.445	ug/L	1.246	1	11	5455	1	KED
⌊	As	75	25.218	ug/L	0.451	1	6	5312	1	KED
	Y	89		ug/L			230853	225975	1	Standard
	Kr	83		ug/L			65	60	17	Standard
⌈>	In-1	115		ug/L			6387	6475	1	KED
|	Cd	111	25.974	ug/L	0.726	2	5	6097	1	KED
⌊	Cd	114	25.913	ug/L	0.100	0	2	14770	1	KED
⌈>	Tb	159		ug/L			540555	535290	2	Standard
⌊	Pb	208	27.333	ug/L	0.697	2	256	1215549	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:15:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40306	2	Standard
	Cl	**37**		ug/L			3578521	3599694	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	457934	2	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.033	168	18596	18217	1	Standard
|	**Cr**	**53**	**0.022**	ug/L	0.003	15	133	175	3	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.001	10	801	938	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23903	1	KED
|	**Ni**	**60**	**-0.070**	ug/L	0.004	5	86	9	40	KED
|	**Ni**	**62**	**-0.070**	ug/L	0.011	15	16	3	50	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	41	67	53	10	KED
|	**Cu**	**65**	**-0.012**	ug/L	0.004	31	42	23	26	KED
|	**Zn**	**66**	**-0.037**	ug/L	0.020	54	67	50	15	KED
|	**Zn**	**67**	**-0.049**	ug/L	0.025	51	11	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	855	6	6	18	KED
	Y	**89**		ug/L			230853	222370	2	Standard
	Kr	**83**		ug/L			65	43	19	Standard
⌈>	**In-1**	**115**		ug/L			6387	6482	2	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.006	75	5	3	45	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	169	2	3	37	KED
⌈>	**Tb**	**159**		ug/L			540555	532770	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	121	256	218	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:20:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39701	3	Standard
	Cl	**37**		ug/L			3578521	3641610	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	482467	1	Standard
|	**Cr**	**52**	**27.183**	ug/L	0.195	0	18596	541167	1	Standard
|	**Cr**	**53**	**27.154**	ug/L	0.144	0	133	61017	2	Standard
⌊	**Mn**	**55**	**27.761**	ug/L	0.471	1	801	773317	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23902	1	KED
|	**Ni**	**60**	**27.923**	ug/L	0.516	1	86	29896	0	KED
|	**Ni**	**62**	**27.174**	ug/L	0.913	3	16	4775	4	KED
|	**Cu**	**63**	**26.665**	ug/L	0.528	1	67	84932	2	KED
|	**Cu**	**65**	**27.045**	ug/L	0.587	2	42	42543	1	KED
|	**Zn**	**66**	**84.993**	ug/L	2.024	2	67	35935	1	KED
|	**Zn**	**67**	**77.004**	ug/L	1.713	2	11	5563	3	KED
⌊	**As**	**75**	**25.553**	ug/L	0.662	2	6	5447	1	KED
	Y	**89**		ug/L			230853	234135	0	Standard
	Kr	**83**		ug/L			65	66	13	Standard
⌈>	**In-1**	**115**		ug/L			6387	6720	1	KED
|	**Cd**	**111**	**25.939**	ug/L	0.364	1	5	6320	1	KED
⌊	**Cd**	**114**	**26.196**	ug/L	0.419	1	2	15495	1	KED
⌈>	**Tb**	**159**		ug/L			540555	544321	3	Standard
⌊	**Pb**	**208**	**28.164**	ug/L	1.019	3	256	1273060	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:24:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34600	3	Standard
	Cl	**37**		ug/L			3578521	3567331	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	449997	1	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.027	351	18596	17692	3	Standard
|	**Cr**	**53**	**0.027**	ug/L	0.006	22	133	183	6	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.003	160	801	801	7	Standard
⌈>	**Ge**	**72**		ug/L			24444	23602	1	KED
|	**Ni**	**60**	**0.016**	ug/L	0.008	49	86	100	9	KED
|	**Ni**	**62**	**0.103**	ug/L	0.029	28	16	33	14	KED
|	**Cu**	**63**	**37.085**	ug/L	0.056	0	67	116624	1	KED
|	**Cu**	**65**	**37.112**	ug/L	0.436	1	42	57637	0	KED
|	**Zn**	**66**	**0.486**	ug/L	0.058	11	67	267	10	KED
|	**Zn**	**67**	**0.416**	ug/L	0.009	2	11	40	2	KED
⌊	**As**	**75**	**0.011**	ug/L	0.014	131	6	8	35	KED
	Y	**89**		ug/L			230853	221057	2	Standard
	Kr	**83**		ug/L			65	59	8	Standard
⌈>	**In-1**	**115**		ug/L			6387	6612	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.011	75	5	1	132	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	62	2	0	224	KED
⌈>	**Tb**	**159**		ug/L			540555	521310	3	Standard
⌊	**Pb**	**208**	**0.087**	ug/L	0.004	4	256	3998	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-14
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 16:28:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	37032	4	Standard
	Cl	**37**		ug/L			3578521	3612709	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	461936	0	Standard
|	**Cr**	**52**	**0.078**	ug/L	0.017	21	18596	19452	1	Standard
|	**Cr**	**53**	**0.124**	ug/L	0.008	6	133	394	4	Standard
⌊	**Mn**	**55**	**0.214**	ug/L	0.006	2	801	6472	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23448	2	KED
|	**Ni**	**60**	**0.007**	ug/L	0.004	61	86	90	3	KED
|	**Ni**	**62**	**0.160**	ug/L	0.059	37	16	43	21	KED
|	**Cu**	**63**	**57.999**	ug/L	2.111	3	67	181076	2	KED
|	**Cu**	**65**	**57.765**	ug/L	2.160	3	42	89070	2	KED
|	**Zn**	**66**	**1.330**	ug/L	0.104	7	67	614	5	KED
|	**Zn**	**67**	**1.213**	ug/L	0.248	20	11	96	15	KED
⌊	**As**	**75**	**0.104**	ug/L	0.008	7	6	28	8	KED
	Y	**89**		ug/L			230853	223875	0	Standard
	Kr	**83**		ug/L			65	55	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6464	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.008	134	5	3	50	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	167	2	3	54	KED
⌈>	**Tb**	**159**		ug/L			540555	531880	4	Standard
⌊	**Pb**	**208**	**0.610**	ug/L	0.026	4	256	27175	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-02
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:33:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	36675	1	Standard
	Cl	**37**		ug/L			3578521	3628064	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	473048	1	Standard
|	**Cr**	**52**	**0.048**	ug/L	0.014	28	18596	19353	0	Standard
|	**Cr**	**53**	**0.057**	ug/L	0.010	18	133	258	7	Standard
⌊	**Mn**	**55**	**0.018**	ug/L	0.002	12	801	1282	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	24540	2	KED
|	**Ni**	**60**	**-0.014**	ug/L	0.006	47	86	71	11	KED
|	**Ni**	**62**	**0.134**	ug/L	0.011	8	16	40	7	KED
|	**Cu**	**63**	**54.182**	ug/L	1.116	2	67	177056	0	KED
|	**Cu**	**65**	**55.386**	ug/L	2.140	3	42	89354	0	KED
|	**Zn**	**66**	**4.384**	ug/L	0.306	6	67	1965	4	KED
|	**Zn**	**67**	**3.472**	ug/L	0.369	10	11	267	7	KED
⌊	**As**	**75**	**0.016**	ug/L	0.007	43	6	10	15	KED
	Y	**89**		ug/L			230853	231963	1	Standard
	Kr	**83**		ug/L			65	52	21	Standard
⌈>	**In-1**	**115**		ug/L			6387	6706	1	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.006	52	5	2	57	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	442	2	2	73	KED
⌈>	**Tb**	**159**		ug/L			540555	547136	2	Standard
⌊	**Pb**	**208**	**0.038**	ug/L	0.001	3	256	1983	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0475-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:37:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	35647	2	Standard
	Cl	**37**		ug/L			3578521	3575993	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	454965	2	Standard
|	**Cr**	**52**	**0.074**	ug/L	0.017	23	18596	19081	0	Standard
|	**Cr**	**53**	**0.093**	ug/L	0.003	3	133	324	0	Standard
⌊	**Mn**	**55**	**0.460**	ug/L	0.011	2	801	12835	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23475	0	KED
|	**Ni**	**60**	**-0.015**	ug/L	0.018	114	86	66	27	KED
|	**Ni**	**62**	**0.000**	ug/L	0.055	28890	16	15	59	KED
|	**Cu**	**63**	**0.467**	ug/L	0.034	7	67	1525	6	KED
|	**Cu**	**65**	**0.506**	ug/L	0.051	10	42	822	9	KED
|	**Zn**	**66**	**60.664**	ug/L	1.748	2	67	25213	2	KED
|	**Zn**	**67**	**52.682**	ug/L	0.456	0	11	3741	1	KED
⌊	**As**	**75**	**0.065**	ug/L	0.006	8	6	20	6	KED
	Y	**89**		ug/L			230853	221691	1	Standard
	Kr	**83**		ug/L			65	52	16	Standard
⌈>	**In-1**	**115**		ug/L			6387	6478	1	KED
|	**Cd**	**111**	**0.120**	ug/L	0.009	7	5	33	4	KED
⌊	**Cd**	**114**	**0.137**	ug/L	0.039	28	2	80	26	KED
⌈>	**Tb**	**159**		ug/L			540555	518561	3	Standard
⌊	**Pb**	**208**	**0.030**	ug/L	0.003	8	256	1544	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0476-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:42:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	36008	4	Standard
	Cl	**37**		ug/L			3578521	3564717	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	466106	4	Standard
|	**Cr**	**52**	**0.071**	ug/L	0.035	48	18596	19499	4	Standard
|	**Cr**	**53**	**0.082**	ug/L	0.001	1	133	307	3	Standard
⌊	**Mn**	**55**	**0.419**	ug/L	0.004	1	801	12045	5	Standard
⌈>	**Ge**	**72**		ug/L			24444	23777	1	KED
|	**Ni**	**60**	**-0.035**	ug/L	0.005	13	86	46	11	KED
|	**Ni**	**62**	**-0.016**	ug/L	0.022	136	16	13	28	KED
|	**Cu**	**63**	**0.424**	ug/L	0.025	5	67	1408	6	KED
|	**Cu**	**65**	**0.439**	ug/L	0.026	5	42	727	4	KED
|	**Zn**	**66**	**57.739**	ug/L	2.119	3	67	24303	2	KED
|	**Zn**	**67**	**51.530**	ug/L	1.622	3	11	3706	3	KED
⌊	**As**	**75**	**0.044**	ug/L	0.020	44	6	15	25	KED
	Y	**89**		ug/L			230853	225384	4	Standard
	Kr	**83**		ug/L			65	45	15	Standard
⌈>	**In-1**	**115**		ug/L			6387	6319	0	KED
|	**Cd**	**111**	**0.103**	ug/L	0.011	10	5	28	8	KED
⌊	**Cd**	**114**	**0.170**	ug/L	0.019	10	2	96	10	KED
⌈>	**Tb**	**159**		ug/L			540555	530176	5	Standard
⌊	**Pb**	**208**	**0.027**	ug/L	0.001	4	256	1418	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:46:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33771	3	Standard
	Cl	**37**		ug/L			3578521	3526406	3	Standard
⌈>	**Sc**	**45**		ug/L			476701	447002	1	Standard
|	**Cr**	**52**	**0.010**	ug/L	0.022	214	18596	17617	0	Standard
|	**Cr**	**53**	**0.008**	ug/L	0.000	4	133	142	1	Standard
⌊	**Mn**	**55**	**-0.008**	ug/L	0.000	5	801	558	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23310	1	KED
|	**Ni**	**60**	**-0.066**	ug/L	0.002	2	86	13	14	KED
|	**Ni**	**62**	**-0.070**	ug/L	0.011	16	16	3	50	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.002	30	67	42	15	KED
|	**Cu**	**65**	**-0.017**	ug/L	0.005	29	42	13	55	KED
|	**Zn**	**66**	**-0.080**	ug/L	0.019	23	67	31	24	KED
|	**Zn**	**67**	**-0.056**	ug/L	0.015	27	11	6	15	KED
⌊	**As**	**75**	**0.004**	ug/L	0.004	100	6	7	11	KED
	Y	**89**		ug/L			230853	216880	3	Standard
	Kr	**83**		ug/L			65	54	24	Standard
⌈>	**In-1**	**115**		ug/L			6387	6437	1	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.000	1	5	2	0	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.003	57	2	5	33	KED
⌈>	**Tb**	**159**		ug/L			540555	514991	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	36	256	182	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:51:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	31671	0	Standard
	Cl	**37**		ug/L			3578521	3735267	2	Standard
⎡>	**Sc**	**45**		ug/L			476701	451697	0	Standard
⎢	**Cr**	**52**	**49.270**	ug/L	1.157	2	18596	904130	2	Standard
⎢	**Cr**	**53**	**49.738**	ug/L	0.169	0	133	104529	1	Standard
⎣	**Mn**	**55**	**50.464**	ug/L	0.445	0	801	1315691	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	23403	1	KED
⎢	**Ni**	**60**	**49.983**	ug/L	1.151	2	86	52338	2	KED
⎢	**Ni**	**62**	**49.539**	ug/L	0.997	2	16	8506	1	KED
⎢	**Cu**	**63**	**48.754**	ug/L	1.515	3	67	151947	1	KED
⎢	**Cu**	**65**	**49.050**	ug/L	0.947	1	42	75517	1	KED
⎢	**Zn**	**66**	**50.197**	ug/L	1.427	2	67	20804	1	KED
⎢	**Zn**	**67**	**49.599**	ug/L	0.379	0	11	3512	1	KED
⎣	**As**	**75**	**49.586**	ug/L	0.877	1	6	10345	1	KED
	Y	**89**		ug/L			230853	223742	0	Standard
	Kr	**83**		ug/L			65	54	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6419	1	KED
⎢	**Cd**	**111**	**49.647**	ug/L	0.891	1	5	11551	1	KED
⎣	**Cd**	**114**	**50.339**	ug/L	0.757	1	2	28440	1	KED
⎡>	**Tb**	**159**		ug/L			540555	523439	4	Standard
⎣	**Pb**	**208**	**51.000**	ug/L	1.813	3	256	2216343	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:59:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32521	4	Standard
	Cl	**37**		ug/L			3578521	3548973	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	448574	1	Standard
⎢	**Cr**	**52**	**0.014**	ug/L	0.007	49	18596	17744	1	Standard
⎢	**Cr**	**53**	**0.001**	ug/L	0.005	711	133	126	9	Standard
⎣	**Mn**	**55**	**-0.004**	ug/L	0.002	49	801	656	6	Standard
⎡>	**Ge**	**72**		ug/L			24444	24308	1	KED
⎢	**Ni**	**60**	**0.013**	ug/L	0.016	120	86	100	18	KED
⎢	**Ni**	**62**	**-0.004**	ug/L	0.043	1205	16	15	49	KED
⎢	**Cu**	**63**	**-0.005**	ug/L	0.003	56	67	50	20	KED
⎢	**Cu**	**65**	**-0.015**	ug/L	0.006	37	42	18	47	KED
⎢	**Zn**	**66**	**0.015**	ug/L	0.022	142	67	73	14	KED
⎢	**Zn**	**67**	**-0.043**	ug/L	0.013	30	11	8	13	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.008	1396	6	6	25	KED
	Y	**89**		ug/L			230853	219778	2	Standard
	Kr	**83**		ug/L			65	47	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6729	2	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.004	28	5	1	50	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.002	62	2	0	224	KED
⎡>	**Tb**	**159**		ug/L			540555	518077	4	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	54	256	219	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:06:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	39209	2	Standard
	Cl	37		ug/L			3578521	3528331	1	Standard
⌈>	Sc	45		ug/L			476701	448579	2	Standard
|	Cr	52	0.275	ug/L	0.033	11	18596	22415	3	Standard
|	Cr	53	0.248	ug/L	0.016	6	133	641	5	Standard
⌊	Mn	55	0.311	ug/L	0.006	2	801	8803	2	Standard
⌈>	Ge	72		ug/L			24444	23782	0	KED
|	Ni	60	-0.062	ug/L	0.012	19	86	18	68	KED
|	Ni	62	-0.070	ug/L	0.000	0	16	3	0	KED
|	Cu	63	0.012	ug/L	0.002	13	67	104	4	KED
|	Cu	65	0.004	ug/L	0.004	82	42	48	12	KED
|	Zn	66	0.394	ug/L	0.040	10	67	231	7	KED
|	Zn	67	0.332	ug/L	0.146	44	11	34	30	KED
⌊	As	75	0.005	ug/L	0.010	192	6	7	28	KED
	Y	89		ug/L			230853	221360	2	Standard
	Kr	83		ug/L			65	42	6	Standard
⌈>	In-1	115		ug/L			6387	6672	1	KED
|	Cd	111	-0.015	ug/L	0.004	28	5	1	69	KED
⌊	Cd	114	0.002	ug/L	0.003	195	2	3	56	KED
⌈>	Tb	159		ug/L			540555	517458	3	Standard
⌊	Pb	208	0.001	ug/L	0.000	30	256	269	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:10:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	42130	1	Standard
	Cl	37		ug/L			3578521	3799089	1	Standard
⌈>	Sc	45		ug/L			476701	469683	3	Standard
|	Cr	52	25.810	ug/L	0.522	2	18596	501122	3	Standard
|	Cr	53	25.728	ug/L	0.279	1	133	56291	4	Standard
⌊	Mn	55	26.271	ug/L	0.102	0	801	712608	3	Standard
⌈>	Ge	72		ug/L			24444	23159	0	KED
|	Ni	60	26.840	ug/L	0.383	1	86	27849	1	KED
|	Ni	62	25.964	ug/L	0.743	2	16	4420	3	KED
|	Cu	63	25.595	ug/L	0.865	3	67	78981	2	KED
|	Cu	65	26.199	ug/L	0.371	1	42	39936	0	KED
|	Zn	66	88.484	ug/L	1.498	1	67	36256	2	KED
|	Zn	67	80.444	ug/L	0.941	1	11	5629	0	KED
⌊	As	75	25.560	ug/L	0.154	0	6	5280	0	KED
	Y	89		ug/L			230853	229560	2	Standard
	Kr	83		ug/L			65	53	14	Standard
⌈>	In-1	115		ug/L			6387	6571	3	KED
|	Cd	111	25.362	ug/L	0.860	3	5	6040	1	KED
⌊	Cd	114	25.591	ug/L	0.979	3	2	14792	0	KED
⌈>	Tb	159		ug/L			540555	547406	3	Standard
⌊	Pb	208	26.145	ug/L	0.822	3	256	1188596	0	Standard

BLA0192

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~BLA0197~~-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:14:54

MB 1/9/23

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41552	2	Standard
	Cl	**37**		ug/L			3578521	3541733	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	442805	0	Standard
|	**Cr**	**52**	**0.112**	ug/L	0.011	9	18596	19252	1	Standard
|	**Cr**	**53**	**0.064**	ug/L	0.008	13	133	256	6	Standard
⌊	**Mn**	**55**	**0.255**	ug/L	0.004	1	801	7246	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23525	0	KED
|	**Ni**	**60**	**-0.062**	ug/L	0.007	12	86	18	41	KED
|	**Ni**	**62**	**-0.067**	ug/L	0.028	41	16	4	107	KED
|	**Cu**	**63**	**0.020**	ug/L	0.005	24	67	128	12	KED
|	**Cu**	**65**	**0.010**	ug/L	0.008	80	42	55	21	KED
|	**Zn**	**66**	**0.354**	ug/L	0.082	23	67	212	16	KED
|	**Zn**	**67**	**0.356**	ug/L	0.207	58	11	36	39	KED
⌊	**As**	**75**	**0.014**	ug/L	0.013	89	6	9	28	KED
	Y	**89**		ug/L			230853	217530	3	Standard
	Kr	**83**		ug/L			65	43	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6417	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.004	30	5	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	266	2	2	35	KED
⌈>	**Tb**	**159**		ug/L			540555	506188	4	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	14	256	370	7	Standard

BLA0192

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~BLA0197~~-BS1

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, January 09, 2023 17:19:16

MB 1/9/23

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41327	2	Standard
	Cl	**37**		ug/L			3578521	3591995	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	447825	2	Standard
|	**Cr**	**52**	**25.477**	ug/L	0.581	2	18596	471780	1	Standard
|	**Cr**	**53**	**25.000**	ug/L	0.317	1	133	52141	1	Standard
⌊	**Mn**	**55**	**25.902**	ug/L	0.729	2	801	669814	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23216	1	KED
|	**Ni**	**60**	**25.895**	ug/L	0.592	2	86	26933	1	KED
|	**Ni**	**62**	**25.597**	ug/L	0.549	2	16	4367	0	KED
|	**Cu**	**63**	**25.953**	ug/L	0.718	2	67	80280	1	KED
|	**Cu**	**65**	**26.341**	ug/L	1.148	4	42	40236	2	KED
|	**Zn**	**66**	**84.556**	ug/L	1.267	1	67	34729	1	KED
|	**Zn**	**67**	**77.096**	ug/L	0.585	0	11	5409	2	KED
⌊	**As**	**75**	**25.243**	ug/L	0.242	0	6	5228	1	KED
	Y	**89**		ug/L			230853	218917	2	Standard
	Kr	**83**		ug/L			65	53	37	Standard
⌈>	**In-1**	**115**		ug/L			6387	6535	2	KED
|	**Cd**	**111**	**25.386**	ug/L	0.620	2	5	6013	1	KED
⌊	**Cd**	**114**	**25.184**	ug/L	0.843	3	2	14481	2	KED
⌈>	**Tb**	**159**		ug/L			540555	513669	5	Standard
⌊	**Pb**	**208**	**26.686**	ug/L	1.146	4	256	1137609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0066-01RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 17:23:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	128320	2	Standard
	Cl	**37**		ug/L			3578521	3899699	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	471371	1	Standard
|	**Cr**	**52**	**1.942**	ug/L	0.077	3	18596	54862	3	Standard
|	**Cr**	**53**	**1.683**	ug/L	0.014	0	133	3819	2	Standard
⌊	**Mn**	**55**	**4.635**	ug/L	0.121	2	801	126852	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	22635	0	KED
|	**Ni**	**60**	**1.911**	ug/L	0.046	2	86	2012	2	KED
|	**Ni**	**62**	**1.892**	ug/L	0.136	7	16	328	6	KED
|	**Cu**	**63**	**0.109**	ug/L	0.007	6	67	389	4	KED
|	**Cu**	**65**	**0.096**	ug/L	0.021	21	42	182	17	KED
|	**Zn**	**66**	**2.203**	ug/L	0.080	3	67	942	3	KED
|	**Zn**	**67**	**1.778**	ug/L	0.239	13	11	132	13	KED
⌊	**As**	**75**	**0.061**	ug/L	0.013	21	6	18	14	KED
	Y	**89**		ug/L			230853	228937	4	Standard
	Kr	**83**		ug/L			65	53	13	Standard
⌈>	**In-1**	**115**		ug/L			6387	6449	1	KED
|	**Cd**	**111**	**0.021**	ug/L	0.015	68	5	10	35	KED
⌊	**Cd**	**114**	**0.026**	ug/L	0.005	17	2	17	15	KED
⌈>	**Tb**	**159**		ug/L			540555	543167	2	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.003	10	256	1450	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0137-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 17:28:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	96191	1	Standard
	Cl	37		ug/L			3578521	3946369	1	Standard
⌈>	Sc	45		ug/L			476701	453601	2	Standard
|	Cr	52	1.686	ug/L	0.011	0	18596	48165	2	Standard
|	Cr	53	1.482	ug/L	0.026	1	133	3249	1	Standard
⌊	Mn	55	13.578	ug/L	0.114	0	801	356016	1	Standard
⌈>	Ge	72		ug/L			24444	22388	1	KED
|	Ni	60	3.108	ug/L	0.106	3	86	3187	2	KED
|	Ni	62	2.909	ug/L	0.116	3	16	492	2	KED
|	Cu	63	0.069	ug/L	0.006	9	67	269	8	KED
|	Cu	65	0.058	ug/L	0.021	36	42	123	24	KED
|	Zn	66	2.525	ug/L	0.109	4	67	1059	3	KED
|	Zn	67	2.272	ug/L	0.159	6	11	163	5	KED
⌊	As	75	0.071	ug/L	0.015	20	6	20	13	KED
	Y	89		ug/L			230853	219523	2	Standard
	Kr	83		ug/L			65	66	20	Standard
⌈>	In-1	115		ug/L			6387	6311	1	KED
|	Cd	111	-0.004	ug/L	0.010	258	5	4	58	KED
⌊	Cd	114	0.020	ug/L	0.008	39	2	13	33	KED
⌈>	Tb	159		ug/L			540555	521367	4	Standard
⌊	Pb	208	0.016	ug/L	0.001	8	256	921	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0116-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 17:35:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	42286	1	Standard
	Cl	37		ug/L			3578521	6769644	5	Standard
⌈>	Sc	45		ug/L			476701	455103	2	Standard
|	Cr	52	9.415	ug/L	0.110	1	18596	188397	1	Standard
|	Cr	53	13.672	ug/L	0.254	1	133	29035	0	Standard
⌊	Mn	55	2.705	ug/L	0.011	0	801	71786	1	Standard
⌈>	Ge	72		ug/L			24444	22687	1	KED
|	Ni	60	1.130	ug/L	0.013	1	86	1225	1	KED
|	Ni	62	1.199	ug/L	0.101	8	16	214	8	KED
|	Cu	63	12.837	ug/L	0.290	2	67	38843	2	KED
|	Cu	65	13.081	ug/L	0.273	2	42	19556	2	KED
|	Zn	66	15.132	ug/L	0.450	2	67	6125	2	KED
|	Zn	67	13.574	ug/L	0.531	3	11	939	4	KED
⌊	As	75	0.177	ug/L	0.018	9	6	42	9	KED
	Y	89		ug/L			230853	218368	2	Standard
	Kr	83		ug/L			65	53	18	Standard
⌈>	In-1	115		ug/L			6387	6402	2	KED
|	Cd	111	0.077	ug/L	0.039	51	5	22	39	KED
⌊	Cd	114	0.091	ug/L	0.011	12	2	53	11	KED
⌈>	Tb	159		ug/L			540555	525642	3	Standard
⌊	Pb	208	0.223	ug/L	0.005	2	256	9982	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-43
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 17:40:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	66452	3	Standard
	Cl	37		ug/L			3578521	3763365	0	Standard
>	Sc	45		ug/L			476701	611241	2	Standard
	Cr	52	16.933	ug/L	0.258	1	18596	435999	0	Standard
	Cr	53	17.179	ug/L	0.589	3	133	48939	1	Standard
	Mn	55	127.440	ug/L	2.565	2	801	4493412	0	Standard
>	Ge	72		ug/L			24444	23695	0	KED
	Ni	60	16.170	ug/L	0.085	0	86	17200	0	KED
	Ni	62	16.034	ug/L	0.534	3	16	2798	2	KED
	Cu	63	27.746	ug/L	0.719	2	67	87600	1	KED
	Cu	65	28.337	ug/L	0.119	0	42	44195	0	KED
	Zn	66	73.163	ug/L	1.042	1	67	30679	0	KED
	Zn	67	69.432	ug/L	1.436	2	11	4974	3	KED
	As	75	6.161	ug/L	0.063	1	6	1307	1	KED
	Y	89		ug/L			230853	479642	1	Standard
	Kr	83		ug/L			65	123	8	Standard
>	In-1	115		ug/L			6387	6451	2	KED
	Cd	111	0.462	ug/L	0.073	15	5	113	16	KED
	Cd	114	0.505	ug/L	0.062	12	2	288	9	KED
>	Tb	159		ug/L			540555	565155	2	Standard
	Pb	208	27.443	ug/L	0.865	3	256	1288329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-44
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 17:45:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	69320	1	Standard
	Cl	37		ug/L			3578521	3768320	1	Standard
>	Sc	45		ug/L			476701	617526	2	Standard
	Cr	52	18.193	ug/L	0.813	4	18596	471175	1	Standard
	Cr	53	18.077	ug/L	0.316	1	133	52029	1	Standard
	Mn	55	152.752	ug/L	4.505	2	801	5439600	0	Standard
>	Ge	72		ug/L			24444	23382	2	KED
	Ni	60	16.185	ug/L	0.422	2	86	16982	0	KED
	Ni	62	15.897	ug/L	0.602	3	16	2737	2	KED
	Cu	63	31.055	ug/L	0.883	2	67	96720	1	KED
	Cu	65	30.788	ug/L	0.597	1	42	47367	0	KED
	Zn	66	82.110	ug/L	1.153	1	67	33964	0	KED
	Zn	67	79.507	ug/L	1.505	1	11	5617	2	KED
	As	75	7.629	ug/L	0.257	3	6	1595	1	KED
	Y	89		ug/L			230853	495011	1	Standard
	Kr	83		ug/L			65	163	13	Standard
>	In-1	115		ug/L			6387	6401	3	KED
	Cd	111	0.698	ug/L	0.078	11	5	166	8	KED
	Cd	114	0.684	ug/L	0.028	4	2	387	4	KED
>	Tb	159		ug/L			540555	566643	2	Standard
	Pb	208	31.706	ug/L	0.515	1	256	1492807	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:49:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34163	0	Standard
	Cl	**37**		ug/L			3578521	3515432	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	450842	1	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.023	920	18596	17537	0	Standard
⎢	**Cr**	**53**	**0.022**	ug/L	0.005	22	133	173	4	Standard
⎣	**Mn**	**55**	**-0.006**	ug/L	0.001	9	801	608	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23839	1	KED
⎢	**Ni**	**60**	**-0.068**	ug/L	0.003	5	86	11	33	KED
⎢	**Ni**	**62**	**-0.081**	ug/L	0.000	0	16	1		KED
⎢	**Cu**	**63**	**-0.009**	ug/L	0.002	25	67	38	17	KED
⎢	**Cu**	**65**	**-0.016**	ug/L	0.005	29	42	16	46	KED
⎢	**Zn**	**66**	**-0.077**	ug/L	0.015	19	67	33	18	KED
⎢	**Zn**	**67**	**-0.066**	ug/L	0.042	62	11	6	45	KED
⎣	**As**	**75**	**0.003**	ug/L	0.008	255	6	7	23	KED
	Y	**89**		ug/L			230853	217262	0	Standard
	Kr	**83**		ug/L			65	62	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6522	1	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.009	75	5	2	98	KED
⎣	**Cd**	**114**	**0.005**	ug/L	0.003	64	2	5	35	KED
⎡>	**Tb**	**159**		ug/L			540555	513292	4	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.001	258	256	253	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:54:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34194	1	Standard
	Cl	**37**		ug/L			3578521	3833938	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	446495	6	Standard
|	**Cr**	**52**	**51.567**	ug/L	3.317	6	18596	932054	0	Standard
|	**Cr**	**53**	**51.414**	ug/L	3.131	6	133	106540	1	Standard
⌊	**Mn**	**55**	**52.127**	ug/L	3.076	5	801	1340471	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23571	0	KED
|	**Ni**	**60**	**50.219**	ug/L	1.180	2	86	52961	1	KED
|	**Ni**	**62**	**48.372**	ug/L	0.939	1	16	8366	1	KED
|	**Cu**	**63**	**48.438**	ug/L	0.151	0	67	152102	0	KED
|	**Cu**	**65**	**49.305**	ug/L	1.738	3	42	76453	2	KED
|	**Zn**	**66**	**49.398**	ug/L	1.088	2	67	20626	1	KED
|	**Zn**	**67**	**48.694**	ug/L	2.729	5	11	3472	4	KED
⌊	**As**	**75**	**49.088**	ug/L	0.913	1	6	10316	1	KED
	Y	**89**		ug/L			230853	223167	6	Standard
	Kr	**83**		ug/L			65	59	14	Standard
⌈>	**In-1**	**115**		ug/L			6387	6401	1	KED
|	**Cd**	**111**	**50.253**	ug/L	0.858	1	5	11658	0	KED
⌊	**Cd**	**114**	**50.336**	ug/L	1.378	2	2	28352	0	KED
⌈>	**Tb**	**159**		ug/L			540555	526560	6	Standard
⌊	**Pb**	**208**	**51.699**	ug/L	3.626	7	256	2256037	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:01:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32578	3	Standard
	Cl	**37**		ug/L			3578521	3603989	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	439943	1	Standard
⎢	**Cr**	**52**	**0.040**	ug/L	0.020	49	18596	17864	2	Standard
⎢	**Cr**	**53**	**0.016**	ug/L	0.006	34	133	156	8	Standard
⎣	**Mn**	**55**	**-0.004**	ug/L	0.001	21	801	649	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23232	0	KED
⎢	**Ni**	**60**	**0.001**	ug/L	0.007	652	86	83	9	KED
⎢	**Ni**	**62**	**-0.021**	ug/L	0.045	208	16	12	63	KED
⎢	**Cu**	**63**	**-0.004**	ug/L	0.003	89	67	53	17	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.006	161	42	34	27	KED
⎢	**Zn**	**66**	**0.007**	ug/L	0.006	91	67	66	2	KED
⎢	**Zn**	**67**	**0.036**	ug/L	0.056	157	11	13	28	KED
⎣	**As**	**75**	**-0.002**	ug/L	0.007	298	6	5	24	KED
	Y	**89**		ug/L			230853	221338	3	Standard
	Kr	**83**		ug/L			65	48	35	Standard
⎡>	**In-1**	**115**		ug/L			6387	6543	3	KED
⎢	**Cd**	**111**	**-0.015**	ug/L	0.005	30	5	1	69	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.002	82	2	1	90	KED
⎡>	**Tb**	**159**		ug/L			540555	508567	4	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	12	256	212	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:07:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	39642	2	Standard
	Cl	37		ug/L			3578521	3539808	2	Standard
>	Sc	45		ug/L			476701	451725	2	Standard
	Cr	52	0.044	ug/L	0.030	68	18596	18413	2	Standard
	Cr	53	0.040	ug/L	0.005	11	133	211	6	Standard
	Mn	55	0.253	ug/L	0.007	2	801	7340	3	Standard
>	Ge	72		ug/L			24444	23246	1	KED
	Ni	60	-0.057	ug/L	0.003	5	86	22	14	KED
	Ni	62	-0.085	ug/L	0.006	7	16	1	86	KED
	Cu	63	0.009	ug/L	0.006	68	67	91	19	KED
	Cu	65	0.004	ug/L	0.007	167	42	46	22	KED
	Zn	66	0.356	ug/L	0.026	7	67	210	6	KED
	Zn	67	0.542	ug/L	0.120	22	11	48	17	KED
	As	75	0.006	ug/L	0.016	283	6	7	42	KED
	Y	89		ug/L			230853	222484	3	Standard
	Kr	83		ug/L			65	52	27	Standard
>	In-1	115		ug/L			6387	6683	5	KED
	Cd	111	-0.011	ug/L	0.005	42	5	2	43	KED
	Cd	114	0.005	ug/L	0.006	122	2	5	63	KED
>	Tb	159		ug/L			540555	518735	4	Standard
	Pb	208	0.000	ug/L	0.001	783	256	249	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:11:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	41334	0	Standard
	Cl	37		ug/L			3578521	3805467	1	Standard
⌈>	Sc	45		ug/L			476701	454853	1	Standard
|	Cr	52	25.874	ug/L	0.169	0	18596	486479	0	Standard
|	Cr	53	25.719	ug/L	0.453	1	133	54478	0	Standard
⌊	Mn	55	26.421	ug/L	0.669	2	801	693883	0	Standard
⌈>	Ge	72		ug/L			24444	23571	1	KED
|	Ni	60	25.897	ug/L	0.541	2	86	27348	1	KED
|	Ni	62	25.724	ug/L	1.192	4	16	4454	2	KED
|	Cu	63	25.508	ug/L	0.759	2	67	80106	1	KED
|	Cu	65	25.690	ug/L	1.346	5	42	39835	3	KED
|	Zn	66	83.757	ug/L	1.000	1	67	34926	0	KED
|	Zn	67	77.185	ug/L	2.084	2	11	5496	1	KED
⌊	As	75	25.316	ug/L	0.740	2	6	5321	0	KED
	Y	89		ug/L			230853	224136	1	Standard
	Kr	83		ug/L			65	53	18	Standard
⌈>	In-1	115		ug/L			6387	6641	2	KED
|	Cd	111	25.310	ug/L	0.517	2	5	6093	0	KED
⌊	Cd	114	25.441	ug/L	0.821	3	2	14868	2	KED
⌈>	Tb	159		ug/L			540555	529839	2	Standard
⌊	Pb	208	26.424	ug/L	0.536	2	256	1163265	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:18:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	52120	2	Standard
	Cl	37		ug/L			3578521	3717556	1	Standard
⌈>	Sc	45		ug/L			476701	458766	2	Standard
|	Cr	52	5.196	ug/L	0.082	1	18596	112821	1	Standard
|	Cr	53	5.211	ug/L	0.044	0	133	11239	3	Standard
⌊	Mn	55	50.704	ug/L	1.097	2	801	1342296	0	Standard
⌈>	Ge	72		ug/L			24444	21598	1	KED
|	Ni	60	0.420	ug/L	0.011	2	86	481	3	KED
|	Ni	62	0.514	ug/L	0.098	19	16	95	16	KED
|	Cu	63	6.687	ug/L	0.128	1	67	19289	0	KED
|	Cu	65	6.865	ug/L	0.168	2	42	9788	2	KED
|	Zn	66	2.268	ug/L	0.018	0	67	924	1	KED
|	Zn	67	2.464	ug/L	0.429	17	11	170	17	KED
⌊	As	75	0.075	ug/L	0.016	21	6	20	16	KED
	Y	89		ug/L			230853	219630	1	Standard
	Kr	83		ug/L			65	49	30	Standard
⌈>	In-1	115		ug/L			6387	6088	2	KED
|	Cd	111	-0.002	ug/L	0.003	164	5	4	12	KED
⌊	Cd	114	-0.001	ug/L	0.004	253	2	1	125	KED
⌈>	Tb	159		ug/L			540555	514211	3	Standard
⌊	Pb	208	0.007	ug/L	0.001	13	256	543	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:22:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	49679	0	Standard
	Cl	37		ug/L			3578521	3628783	1	Standard
⌈>	Sc	45		ug/L			476701	449656	1	Standard
|	Cr	52	5.723	ug/L	0.097	1	18596	120038	1	Standard
|	Cr	53	5.631	ug/L	0.063	1	133	11890	0	Standard
⌊	Mn	55	39.052	ug/L	0.281	0	801	1013747	1	Standard
⌈>	Ge	72		ug/L			24444	21432	1	KED
|	Ni	60	0.419	ug/L	0.022	5	86	476	2	KED
|	Ni	62	0.373	ug/L	0.007	1	16	73	3	KED
|	Cu	63	6.740	ug/L	0.137	2	67	19299	3	KED
|	Cu	65	6.888	ug/L	0.127	1	42	9743	1	KED
|	Zn	66	2.619	ug/L	0.064	2	67	1050	1	KED
|	Zn	67	2.686	ug/L	0.213	7	11	183	5	KED
⌊	As	75	0.087	ug/L	0.030	34	6	22	25	KED
	Y	89		ug/L			230853	220785	0	Standard
	Kr	83		ug/L			65	53	21	Standard
⌈>	In-1	115		ug/L			6387	6043	2	KED
|	Cd	111	-0.004	ug/L	0.008	180	5	3	43	KED
⌊	Cd	114	0.009	ug/L	0.010	103	2	7	71	KED
⌈>	Tb	159		ug/L			540555	520913	3	Standard
⌊	Pb	208	0.006	ug/L	0.000	5	256	500	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:27:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	48101	1	Standard
	Cl	37		ug/L			3578521	3726634	1	Standard
⌈>	Sc	45		ug/L			476701	473626	3	Standard
|	Cr	52	3.205	ug/L	0.017	0	18596	78947	3	Standard
|	Cr	53	3.220	ug/L	0.032	0	133	7217	2	Standard
⌊	Mn	55	23.513	ug/L	0.521	2	801	643057	2	Standard
⌈>	Ge	72		ug/L			24444	21959	1	KED
|	Ni	60	0.282	ug/L	0.013	4	86	354	3	KED
|	Ni	62	0.288	ug/L	0.115	39	16	60	28	KED
|	Cu	63	4.808	ug/L	0.042	0	67	14118	1	KED
|	Cu	65	4.893	ug/L	0.053	1	42	7103	1	KED
|	Zn	66	1.526	ug/L	0.053	3	67	652	2	KED
|	Zn	67	1.503	ug/L	0.053	3	11	109	3	KED
⌊	As	75	0.057	ug/L	0.016	27	6	17	16	KED
	Y	89		ug/L			230853	230023	2	Standard
	Kr	83		ug/L			65	63	9	Standard
⌈>	In-1	115		ug/L			6387	6063	0	KED
|	Cd	111	-0.003	ug/L	0.014	439	5	4	74	KED
⌊	Cd	114	0.003	ug/L	0.008	251	2	3	109	KED
⌈>	Tb	159		ug/L			540555	538690	5	Standard
⌊	Pb	208	0.005	ug/L	0.000	4	256	490	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:31:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	45359	1	Standard
	Cl	37		ug/L			3578521	3645273	1	Standard
⌈>	Sc	45		ug/L			476701	456507	2	Standard
|	Cr	52	10.658	ug/L	0.237	2	18596	211542	0	Standard
|	Cr	53	10.722	ug/L	0.233	2	133	22865	0	Standard
⌊	Mn	55	18.150	ug/L	0.368	2	801	478593	0	Standard
⌈>	Ge	72		ug/L			24444	23223	0	KED
|	Ni	60	0.231	ug/L	0.033	14	86	321	10	KED
|	Ni	62	0.288	ug/L	0.049	17	16	64	13	KED
|	Cu	63	4.304	ug/L	0.056	1	67	13375	1	KED
|	Cu	65	4.326	ug/L	0.052	1	42	6646	0	KED
|	Zn	66	1.728	ug/L	0.105	6	67	772	5	KED
|	Zn	67	1.558	ug/L	0.144	9	11	120	8	KED
⌊	As	75	0.082	ug/L	0.020	23	6	23	17	KED
	Y	89		ug/L			230853	219292	1	Standard
	Kr	83		ug/L			65	55	29	Standard
⌈>	In-1	115		ug/L			6387	6323	3	KED
|	Cd	111	0.000	ug/L	0.017	83528	5	5	78	KED
⌊	Cd	114	0.003	ug/L	0.008	286	2	3	114	KED
⌈>	Tb	159		ug/L			540555	531283	4	Standard
⌊	Pb	208	0.015	ug/L	0.002	13	256	913	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-45
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:36:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	70058	0	Standard
	Cl	37		ug/L			3578521	3637459	1	Standard
>	Sc	45		ug/L			476701	635528	1	Standard
	Cr	52	17.392	ug/L	0.227	1	18596	465010	1	Standard
	Cr	53	17.623	ug/L	0.483	2	133	52208	1	Standard
	Mn	55	160.671	ug/L	2.032	1	801	5890866	0	Standard
>	Ge	72		ug/L			24444	23859	0	KED
	Ni	60	16.352	ug/L	0.237	1	86	17514	1	KED
	Ni	62	16.461	ug/L	0.326	1	16	2892	2	KED
	Cu	63	33.327	ug/L	0.431	1	67	105954	1	KED
	Cu	65	33.695	ug/L	0.413	1	42	52909	1	KED
	Zn	66	86.654	ug/L	0.617	0	67	36579	0	KED
	Zn	67	83.844	ug/L	1.749	2	11	6045	1	KED
	As	75	8.322	ug/L	0.033	0	6	1775	0	KED
	Y	89		ug/L			230853	521221	2	Standard
	Kr	83		ug/L			65	161	11	Standard
>	In-1	115		ug/L			6387	6607	1	KED
	Cd	111	0.659	ug/L	0.055	8	5	162	7	KED
	Cd	114	0.635	ug/L	0.046	7	2	371	7	KED
>	Tb	159		ug/L			540555	564800	3	Standard
	Pb	208	34.919	ug/L	1.034	2	256	1638220	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-46
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:41:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	59212	1	Standard
	Cl	**37**		ug/L			3578521	3584051	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	515810	1	Standard
|	**Cr**	**52**	**7.975**	ug/L	0.135	1	18596	183951	1	Standard
|	**Cr**	**53**	**8.019**	ug/L	0.009	0	133	19366	1	Standard
⌊	**Mn**	**55**	**95.320**	ug/L	1.296	1	801	2836800	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	24090	2	KED
|	**Ni**	**60**	**7.584**	ug/L	0.251	3	86	8243	1	KED
|	**Ni**	**62**	**7.343**	ug/L	0.132	1	16	1311	1	KED
|	**Cu**	**63**	**8.569**	ug/L	0.255	2	67	27547	1	KED
|	**Cu**	**65**	**8.679**	ug/L	0.320	3	42	13786	2	KED
|	**Zn**	**66**	**21.916**	ug/L	0.540	2	67	9389	2	KED
|	**Zn**	**67**	**21.562**	ug/L	0.469	2	11	1578	4	KED
⌊	**As**	**75**	**1.961**	ug/L	0.094	4	6	427	3	KED
	Y	**89**		ug/L			230853	373430	1	Standard
	Kr	**83**		ug/L			65	94	6	Standard
⌈>	**In-1**	**115**		ug/L			6387	6941	1	KED
|	**Cd**	**111**	**0.021**	ug/L	0.009	41	5	10	20	KED
⌊	**Cd**	**114**	**0.017**	ug/L	0.002	11	2	13	8	KED
⌈>	**Tb**	**159**		ug/L			540555	549187	3	Standard
⌊	**Pb**	**208**	**1.732**	ug/L	0.047	2	256	79268	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-47
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:45:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	63904	3	Standard
	Cl	**37**		ug/L			3578521	3613111	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	550867	2	Standard
|	**Cr**	**52**	**10.244**	ug/L	0.277	2	18596	246160	0	Standard
|	**Cr**	**53**	**10.394**	ug/L	0.194	1	133	26755	1	Standard
⌊	**Mn**	**55**	**120.380**	ug/L	2.215	1	801	3825738	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23807	1	KED
|	**Ni**	**60**	**10.450**	ug/L	0.390	3	86	11195	3	KED
|	**Ni**	**62**	**10.383**	ug/L	0.366	3	16	1826	2	KED
|	**Cu**	**63**	**14.395**	ug/L	0.288	1	67	45696	1	KED
|	**Cu**	**65**	**14.764**	ug/L	0.348	2	42	23152	2	KED
|	**Zn**	**66**	**31.439**	ug/L	0.047	0	67	13283	1	KED
|	**Zn**	**67**	**32.124**	ug/L	1.023	3	11	2317	1	KED
⌊	**As**	**75**	**3.101**	ug/L	0.137	4	6	664	4	KED
	Y	**89**		ug/L			230853	436727	1	Standard
	Kr	**83**		ug/L			65	113	8	Standard
⌈>	**In-1**	**115**		ug/L			6387	6507	3	KED
|	**Cd**	**111**	**0.060**	ug/L	0.014	23	5	19	20	KED
⌊	**Cd**	**114**	**0.066**	ug/L	0.015	23	2	39	19	KED
⌈>	**Tb**	**159**		ug/L			540555	553912	2	Standard
⌊	**Pb**	**208**	**3.949**	ug/L	0.116	2	256	181927	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:49:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34318	2	Standard
	Cl	**37**		ug/L			3578521	3409550	3	Standard
⌈>	**Sc**	**45**		ug/L			476701	432607	4	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.018	193	18596	17031	3	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.005	58	133	105	12	Standard
⌊	**Mn**	**55**	**-0.005**	ug/L	0.002	37	801	601	11	Standard
⌈>	**Ge**	**72**		ug/L			24444	23146	2	KED
|	**Ni**	**60**	**-0.072**	ug/L	0.003	3	86	6	41	KED
|	**Ni**	**62**	**-0.055**	ug/L	0.006	11	16	6	17	KED
|	**Cu**	**63**	**-0.009**	ug/L	0.004	49	67	38	36	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.005	50	42	25	31	KED
|	**Zn**	**66**	**-0.060**	ug/L	0.005	7	67	39	5	KED
|	**Zn**	**67**	**-0.056**	ug/L	0.055	99	11	6	56	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	277	6	6	7	KED
	Y	**89**		ug/L			230853	214375	3	Standard
	Kr	**83**		ug/L			65	47	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6502	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.004	29	5	1	50	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	3546	2	2	51	KED
⌈>	**Tb**	**159**		ug/L			540555	506379	4	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	58	256	203	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:54:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32517	1	Standard
	Cl	**37**		ug/L			3578521	3662022	2	Standard
⎡>	**Sc**	**45**		ug/L			476701	446496	1	Standard
⎢	**Cr**	**52**	**49.851**	ug/L	0.660	1	18596	904026	2	Standard
⎢	**Cr**	**53**	**50.064**	ug/L	0.356	0	133	103994	0	Standard
⎣	**Mn**	**55**	**50.804**	ug/L	0.221	0	801	1309319	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23908	1	KED
⎢	**Ni**	**60**	**49.752**	ug/L	0.225	0	86	53223	0	KED
⎢	**Ni**	**62**	**48.525**	ug/L	0.989	2	16	8513	0	KED
⎢	**Cu**	**63**	**49.312**	ug/L	0.891	1	67	157066	2	KED
⎢	**Cu**	**65**	**49.737**	ug/L	0.837	1	42	78237	1	KED
⎢	**Zn**	**66**	**49.992**	ug/L	0.544	1	67	21175	2	KED
⎢	**Zn**	**67**	**48.552**	ug/L	1.196	2	11	3512	3	KED
⎣	**As**	**75**	**49.436**	ug/L	1.091	2	6	10538	1	KED
	Y	**89**		ug/L			230853	224268	1	Standard
	Kr	**83**		ug/L			65	50	44	Standard
⎡>	**In-1**	**115**		ug/L			6387	6358	2	KED
⎢	**Cd**	**111**	**51.283**	ug/L	1.073	2	5	11817	2	KED
⎣	**Cd**	**114**	**51.173**	ug/L	1.494	2	2	28630	2	KED
⎡>	**Tb**	**159**		ug/L			540555	530844	4	Standard
⎣	**Pb**	**208**	**50.179**	ug/L	1.775	3	256	2211516	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:01:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33265	2	Standard
	Cl	**37**		ug/L			3578521	3460889	4	Standard
⎡>	**Sc**	**45**		ug/L			476701	453529	3	Standard
⎢	**Cr**	**52**	**-0.014**	ug/L	0.017	118	18596	17427	2	Standard
⎢	**Cr**	**53**	**-0.006**	ug/L	0.004	61	133	114	9	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.000	18	801	695	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	23194	1	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.010	10709	86	81	14	KED
⎢	**Ni**	**62**	**0.012**	ug/L	0.023	183	16	17	22	KED
⎢	**Cu**	**63**	**-0.000**	ug/L	0.004	3024	67	64	20	KED
⎢	**Cu**	**65**	**-0.006**	ug/L	0.006	101	42	31	27	KED
⎢	**Zn**	**66**	**0.013**	ug/L	0.011	83	67	69	6	KED
⎢	**Zn**	**67**	**-0.010**	ug/L	0.014	145	11	10	10	KED
⎣	**As**	**75**	**0.004**	ug/L	0.008	200	6	7	23	KED
	Y	**89**		ug/L			230853	220971	4	Standard
	Kr	**83**		ug/L			65	54	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6714	0	KED
⎢	**Cd**	**111**	**-0.002**	ug/L	0.016	631	5	4	80	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.006	260	2	3	87	KED
⎡>	**Tb**	**159**		ug/L			540555	520970	4	Standard
⎣	**Pb**	**208**	**-0.000**	ug/L	0.000	221	256	240	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:06:45

DEL

WRONG SAMPLE

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	16821	75	Standard
	Cl	**37**		ug/L			3578521	1790505	63	Standard
⌈>	**Sc**	**45**		ug/L			476701	752041	100	Standard
|	**Cr**	**52**	**1.900**	ug/L	4.611	242	18596	6857	82	Standard
|	**Cr**	**53**	**0.768**	ug/L	1.396	181	133	86	42	Standard
⌊	**Mn**	**55**	**0.137**	ug/L	0.273	198	801	428	77	Standard
⌈>	**Ge**	**72**		ug/L			24444	3065	151	KED
|	**Ni**	**60**	**-0.074**	ug/L	0.009	11	86	1	173	KED
|	**Ni**	**62**	**1.496**	ug/L	1.898	126	16	5	21	KED
|	**Cu**	**63**	**-0.017**	ug/L	0.006	33	67	3	173	KED
|	**Cu**	**65**	**0.105**	ug/L	0.133	126	42	5	43	KED
|	**Zn**	**66**	**0.498**	ug/L	0.792	158	67	4	24	KED
|	**Zn**	**67**	**0.924**	ug/L	1.679	181	11	2	114	KED
⌊	**As**	**75**	**0.663**	ug/L	0.755	113	6	3	37	KED
	Y	**89**		ug/L			230853	394957	96	Standard
	Kr	**83**		ug/L			65	22	28	Standard
⌈>	**In-1**	**115**		ug/L			6387	16359	33	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.003	21	5	4	61	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.001	238	2	5	35	KED
⌈>	**Tb**	**159**		ug/L			540555	963931	94	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.001	16	256	102	87	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:12:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41079	0	Standard
	Cl	**37**		ug/L			3578521	3520747	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	464742	3	Standard
|	**Cr**	**52**	**0.201**	ug/L	0.041	20	18596	21837	2	Standard
|	**Cr**	**53**	**0.167**	ug/L	0.023	13	133	491	12	Standard
⌊	**Mn**	**55**	**0.237**	ug/L	0.001	0	801	7134	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	25501	3	KED
|	**Ni**	**60**	**-0.062**	ug/L	0.004	7	86	19	30	KED
|	**Ni**	**62**	**-0.044**	ug/L	0.023	52	16	8	44	KED
|	**Cu**	**63**	**0.016**	ug/L	0.002	9	67	126	4	KED
|	**Cu**	**65**	**0.016**	ug/L	0.009	54	42	71	24	KED
|	**Zn**	**66**	**0.268**	ug/L	0.062	23	67	190	11	KED
|	**Zn**	**67**	**0.152**	ug/L	0.131	86	11	23	41	KED
⌊	**As**	**75**	**0.005**	ug/L	0.016	298	6	8	41	KED
	Y	**89**		ug/L			230853	227722	3	Standard
	Kr	**83**		ug/L			65	51	22	Standard
⌈>	**In-1**	**115**		ug/L			6387	6664	1	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.002	17	5	2	24	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	206	2	3	78	KED
⌈>	**Tb**	**159**		ug/L			540555	530064	5	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	50	256	213	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:16:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39904	1	Standard
	Cl	**37**		ug/L			3578521	3458447	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	438870	1	Standard
|	**Cr**	**52**	**25.837**	ug/L	0.294	1	18596	468710	0	Standard
|	**Cr**	**53**	**25.575**	ug/L	0.569	2	133	52273	1	Standard
⌊	**Mn**	**55**	**26.545**	ug/L	0.560	2	801	672686	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23248	1	KED
|	**Ni**	**60**	**25.740**	ug/L	0.545	2	86	26816	2	KED
|	**Ni**	**62**	**25.194**	ug/L	0.463	1	16	4306	2	KED
|	**Cu**	**63**	**25.339**	ug/L	0.372	1	67	78501	0	KED
|	**Cu**	**65**	**25.260**	ug/L	0.417	1	42	38652	0	KED
|	**Zn**	**66**	**83.867**	ug/L	0.715	0	67	34497	1	KED
|	**Zn**	**67**	**76.190**	ug/L	2.598	3	11	5352	2	KED
⌊	**As**	**75**	**25.305**	ug/L	0.503	1	6	5247	0	KED
	Y	**89**		ug/L			230853	217213	1	Standard
	Kr	**83**		ug/L			65	52	22	Standard
⌈>	**In-1**	**115**		ug/L			6387	6373	1	KED
|	**Cd**	**111**	**25.446**	ug/L	0.445	1	5	5879	1	KED
⌊	**Cd**	**114**	**25.308**	ug/L	0.126	0	2	14197	1	KED
⌈>	**Tb**	**159**		ug/L			540555	512477	3	Standard
⌊	**Pb**	**208**	**26.331**	ug/L	1.081	4	256	1120439	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:21:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	60244	1	Standard
	Cl	**37**		ug/L			3578521	3656693	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	594488	1	Standard
|	**Cr**	**52**	**17.337**	ug/L	0.394	2	18596	433600	0	Standard
|	**Cr**	**53**	**17.472**	ug/L	0.262	1	133	48424	0	Standard
⌊	**Mn**	**55**	**134.485**	ug/L	2.769	2	801	4612397	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23792	1	KED
|	**Ni**	**60**	**13.835**	ug/L	0.453	3	86	14785	2	KED
|	**Ni**	**62**	**14.007**	ug/L	0.205	1	16	2457	2	KED
|	**Cu**	**63**	**38.392**	ug/L	0.222	0	67	121698	1	KED
|	**Cu**	**65**	**38.461**	ug/L	0.833	2	42	60204	0	KED
|	**Zn**	**66**	**86.178**	ug/L	0.125	0	67	36275	1	KED
|	**Zn**	**67**	**80.688**	ug/L	1.246	1	11	5802	2	KED
⌊	**As**	**75**	**10.154**	ug/L	0.096	0	6	2159	2	KED
	Y	**89**		ug/L			230853	460643	2	Standard
	Kr	**83**		ug/L			65	139	27	Standard
⌈>	**In-1**	**115**		ug/L			6387	6546	3	KED
|	**Cd**	**111**	**0.721**	ug/L	0.068	9	5	175	6	KED
⌊	**Cd**	**114**	**0.718**	ug/L	0.013	1	2	416	4	KED
⌈>	**Tb**	**159**		ug/L			540555	548464	2	Standard
⌊	**Pb**	**208**	**35.527**	ug/L	0.786	2	256	1618886	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:25:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	56919	0	Standard
	Cl	37		ug/L			3578521	3556256	1	Standard
>	Sc	45		ug/L			476701	601764	2	Standard
	Cr	52	16.599	ug/L	0.229	1	18596	421249	1	Standard
	Cr	53	16.552	ug/L	0.285	1	133	46446	2	Standard
	Mn	55	133.471	ug/L	2.197	1	801	4633196	1	Standard
>	Ge	72		ug/L			24444	22860	0	KED
	Ni	60	13.374	ug/L	0.223	1	86	13738	1	KED
	Ni	62	13.345	ug/L	0.677	5	16	2249	4	KED
	Cu	63	34.735	ug/L	0.513	1	67	105798	1	KED
	Cu	65	35.323	ug/L	0.943	2	42	53134	2	KED
	Zn	66	86.650	ug/L	0.283	0	67	35045	0	KED
	Zn	67	82.066	ug/L	1.598	1	11	5669	1	KED
	As	75	10.165	ug/L	0.128	1	6	2076	1	KED
	Y	89		ug/L			230853	478052	1	Standard
	Kr	83		ug/L			65	148	12	Standard
>	In-1	115		ug/L			6387	6232	1	KED
	Cd	111	0.488	ug/L	0.053	10	5	115	10	KED
	Cd	114	0.490	ug/L	0.075	15	2	270	14	KED
>	Tb	159		ug/L			540555	549101	3	Standard
	Pb	208	38.274	ug/L	1.023	2	256	1745600	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:29:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			34196	63292	1	Standard
Cl	37		ug/L			3578521	3578320	2	Standard
> Sc	45		ug/L			476701	623910	2	Standard
Cr	52	14.592	ug/L	0.162	1	18596	386910	2	Standard
Cr	53	14.748	ug/L	0.305	2	133	42917	0	Standard
Mn	55	138.686	ug/L	2.155	1	801	4991891	1	Standard
> Ge	72		ug/L			24444	23056	0	KED
Ni	60	13.735	ug/L	0.256	1	86	14228	1	KED
Ni	62	13.935	ug/L	0.442	3	16	2369	3	KED
Cu	63	36.729	ug/L	0.276	0	67	112834	0	KED
Cu	65	36.835	ug/L	1.267	3	42	55888	3	KED
Zn	66	87.180	ug/L	2.546	2	67	35563	3	KED
Zn	67	82.657	ug/L	2.237	2	11	5759	2	KED
As	75	9.091	ug/L	0.111	1	6	1874	1	KED
Y	89		ug/L			230853	499088	0	Standard
Kr	83		ug/L			65	149	17	Standard
> In-1	115		ug/L			6387	6372	1	KED
Cd	111	0.520	ug/L	0.032	6	5	125	6	KED
Cd	114	0.490	ug/L	0.020	4	2	276	2	KED
> Tb	159		ug/L			540555	554006	3	Standard
Pb	208	33.375	ug/L	1.324	3	256	1535253	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:34:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	59050	2	Standard
	Cl	37		ug/L			3578521	3640863	0	Standard
>	Sc	45		ug/L			476701	618718	2	Standard
	Cr	52	15.400	ug/L	0.311	2	18596	403518	1	Standard
	Cr	53	15.761	ug/L	0.457	2	133	45465	1	Standard
	Mn	55	139.850	ug/L	4.418	3	801	4990014	1	Standard
>	Ge	72		ug/L			24444	23532	1	KED
	Ni	60	13.510	ug/L	0.180	1	86	14285	1	KED
	Ni	62	13.871	ug/L	0.389	2	16	2407	3	KED
	Cu	63	34.436	ug/L	0.668	1	67	107959	1	KED
	Cu	65	34.980	ug/L	0.480	1	42	54164	0	KED
	Zn	66	83.494	ug/L	1.475	1	67	34760	1	KED
	Zn	67	76.965	ug/L	1.599	2	11	5473	1	KED
	As	75	8.742	ug/L	0.335	3	6	1839	4	KED
	Y	89		ug/L			230853	507741	1	Standard
	Kr	83		ug/L			65	184	20	Standard
>	In-1	115		ug/L			6387	6429	0	KED
	Cd	111	0.432	ug/L	0.012	2	5	105	2	KED
	Cd	114	0.447	ug/L	0.038	8	2	255	8	KED
>	Tb	159		ug/L			540555	558215	3	Standard
	Pb	208	35.267	ug/L	1.067	3	256	1634976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:38:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	56543	1	Standard
	Cl	**37**		ug/L			3578521	3632245	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	587014	2	Standard
|	**Cr**	**52**	**16.797**	ug/L	0.373	2	18596	415513	0	Standard
|	**Cr**	**53**	**16.881**	ug/L	0.045	0	133	46213	2	Standard
⌊	**Mn**	**55**	**130.264**	ug/L	1.249	0	801	4411714	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23738	2	KED
|	**Ni**	**60**	**14.560**	ug/L	0.307	2	86	15522	2	KED
|	**Ni**	**62**	**14.274**	ug/L	0.524	3	16	2497	3	KED
|	**Cu**	**63**	**30.243**	ug/L	0.104	0	67	95660	1	KED
|	**Cu**	**65**	**31.315**	ug/L	0.401	1	42	48915	1	KED
|	**Zn**	**66**	**82.033**	ug/L	0.978	1	67	34451	1	KED
|	**Zn**	**67**	**76.450**	ug/L	3.827	5	11	5482	3	KED
⌊	**As**	**75**	**10.489**	ug/L	0.043	0	6	2225	1	KED
	Y	**89**		ug/L			230853	461535	0	Standard
	Kr	**83**		ug/L			65	128	0	Standard
⌈>	**In-1**	**115**		ug/L			6387	6654	2	KED
|	**Cd**	**111**	**1.720**	ug/L	0.065	3	5	419	2	KED
⌊	**Cd**	**114**	**1.865**	ug/L	0.057	3	2	1094	4	KED
⌈>	**Tb**	**159**		ug/L			540555	554053	3	Standard
⌊	**Pb**	**208**	**36.639**	ug/L	1.103	3	256	1685881	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:43:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	65154	1	Standard
	Cl	37		ug/L			3578521	3626843	1	Standard
>	Sc	45		ug/L			476701	629046	1	Standard
	Cr	52	20.117	ug/L	0.178	0	18596	528531	0	Standard
	Cr	53	20.235	ug/L	0.204	1	133	59321	0	Standard
	Mn	55	142.259	ug/L	0.858	0	801	5163724	1	Standard
>	Ge	72		ug/L			24444	23518	1	KED
	Ni	60	13.818	ug/L	0.137	0	86	14599	0	KED
	Ni	62	14.464	ug/L	0.101	0	16	2507	1	KED
	Cu	63	35.520	ug/L	0.472	1	67	111290	0	KED
	Cu	65	35.309	ug/L	0.310	0	42	54653	2	KED
	Zn	66	122.246	ug/L	2.120	1	67	50841	2	KED
	Zn	67	114.573	ug/L	2.982	2	11	8136	1	KED
	As	75	16.031	ug/L	0.085	0	6	3366	1	KED
	Y	89		ug/L			230853	503262	2	Standard
	Kr	83		ug/L			65	146	6	Standard
>	In-1	115		ug/L			6387	6335	1	KED
	Cd	111	0.538	ug/L	0.042	7	5	128	7	KED
	Cd	114	0.500	ug/L	0.073	14	2	281	15	KED
>	Tb	159		ug/L			540555	577652	2	Standard
	Pb	208	24.104	ug/L	0.455	1	256	1157040	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:47:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	64618	3	Standard
	Cl	**37**		ug/L			3578521	3633882	2	Standard
>	**Sc**	**45**		ug/L			476701	632674	2	Standard
	Cr	**52**	**16.277**	ug/L	0.479	2	18596	434662	0	Standard
	Cr	**53**	**16.211**	ug/L	0.494	3	133	47818	1	Standard
	Mn	**55**	**138.679**	ug/L	2.152	1	801	5061415	0	Standard
>	**Ge**	**72**		ug/L			24444	24375	2	KED
	Ni	**60**	**14.954**	ug/L	0.656	4	86	16358	2	KED
	Ni	**62**	**14.942**	ug/L	1.029	6	16	2682	5	KED
	Cu	**63**	**26.292**	ug/L	0.156	0	67	85399	1	KED
	Cu	**65**	**26.647**	ug/L	0.260	0	42	42747	1	KED
	Zn	**66**	**138.610**	ug/L	2.611	1	67	59718	1	KED
	Zn	**67**	**127.419**	ug/L	2.032	1	11	9377	0	KED
	As	**75**	**17.583**	ug/L	0.054	0	6	3825	2	KED
	Y	**89**		ug/L			230853	521900	1	Standard
	Kr	**83**		ug/L			65	155	22	Standard
>	**In-1**	**115**		ug/L			6387	6306	2	KED
	Cd	**111**	**0.325**	ug/L	0.047	14	5	79	14	KED
	Cd	**114**	**0.332**	ug/L	0.049	14	2	186	14	KED
>	**Tb**	**159**		ug/L			540555	576562	3	Standard
	Pb	**208**	**12.845**	ug/L	0.398	3	256	615287	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:54:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32638	1	Standard
	Cl	**37**		ug/L			3578521	3701223	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	444103	3	Standard
⎢	**Cr**	**52**	**49.924**	ug/L	1.716	3	18596	899713	1	Standard
⎢	**Cr**	**53**	**49.732**	ug/L	1.785	3	133	102672	1	Standard
⎣	**Mn**	**55**	**50.971**	ug/L	1.393	2	801	1305748	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	23058	2	KED
⎢	**Ni**	**60**	**51.823**	ug/L	1.036	1	86	53450	1	KED
⎢	**Ni**	**62**	**49.941**	ug/L	1.151	2	16	8447	1	KED
⎢	**Cu**	**63**	**49.863**	ug/L	0.950	1	67	153141	2	KED
⎢	**Cu**	**65**	**51.087**	ug/L	0.316	0	42	77512	3	KED
⎢	**Zn**	**66**	**51.632**	ug/L	1.628	3	67	21081	2	KED
⎢	**Zn**	**67**	**50.378**	ug/L	2.106	4	11	3512	2	KED
⎣	**As**	**75**	**50.278**	ug/L	1.045	2	6	10333	0	KED
	Y	**89**		ug/L			230853	218382	0	Standard
	Kr	**83**		ug/L			65	62	10	Standard
⎡>	**In-1**	**115**		ug/L			6387	6314	2	KED
⎢	**Cd**	**111**	**48.776**	ug/L	0.388	0	5	11161	1	KED
⎣	**Cd**	**114**	**49.344**	ug/L	1.214	2	2	27415	1	KED
⎡>	**Tb**	**159**		ug/L			540555	525081	3	Standard
⎣	**Pb**	**208**	**49.848**	ug/L	1.346	2	256	2174207	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:01:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32926	5	Standard
	Cl	**37**		ug/L			3578521	3501742	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	432263	1	Standard
|	**Cr**	**52**	**0.012**	ug/L	0.020	163	18596	17078	2	Standard
|	**Cr**	**53**	**-0.003**	ug/L	0.006	166	133	113	9	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.002	200	801	704	5	Standard
⌈>	**Ge**	**72**		ug/L			24444	22126	3	KED
|	**Ni**	**60**	**0.004**	ug/L	0.002	42	86	82	1	KED
|	**Ni**	**62**	**0.025**	ug/L	0.004	15	16	19	0	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	44	67	52	11	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.006	62	42	25	35	KED
|	**Zn**	**66**	**0.052**	ug/L	0.009	17	67	81	2	KED
|	**Zn**	**67**	**0.008**	ug/L	0.049	623	11	10	26	KED
⌊	**As**	**75**	**0.007**	ug/L	0.008	111	6	7	20	KED
	Y	**89**		ug/L			230853	214650	1	Standard
	Kr	**83**		ug/L			65	48	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6124	1	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.007	55	5	1	86	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	189	2	1	205	KED
⌈>	**Tb**	**159**		ug/L			540555	503661	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	185	256	267	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:09:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				28744	1	Standard
	Cl	**37**		ug/L				3416101	0	Standard
⎡>	**Sc**	**45**		ug/L				429622	3	Standard
⎢	**Cr**	**52**		ug/L				16425	4	Standard
⎢	**Cr**	**53**		ug/L				102	7	Standard
⎣	**Mn**	**55**		ug/L				567	2	Standard
⎡>	**Ge**	**72**		ug/L				22652	1	KED
⎢	**Ni**	**60**		ug/L				20	14	KED
⎢	**Ni**	**62**		ug/L				7	43	KED
⎢	**Cu**	**63**		ug/L				30	27	KED
⎢	**Cu**	**65**		ug/L				24	16	KED
⎢	**Zn**	**66**		ug/L				40	9	KED
⎢	**Zn**	**67**		ug/L				3	50	KED
⎣	**As**	**75**		ug/L				5	28	KED
	Y	**89**		ug/L				208501	3	Standard
	Kr	**83**		ug/L				52	5	Standard
⎡>	**In-1**	**115**		ug/L				6222	2	KED
⎢	**Cd**	**111**		ug/L				2	65	KED
⎣	**Cd**	**114**		ug/L				6	56	KED
⎡>	**Tb**	**159**		ug/L				498579	3	Standard
⎣	**Pb**	**208**		ug/L				109	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:13:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29859	2	Standard
	Cl	**37**		ug/L			3416101	3661261	2	Standard
⎡>	**Sc**	**45**		ug/L			429622	435471	0	Standard
⎢	**Cr**	**52**	**50.114**	ug/L	0.158	0	16425	885897	1	Standard
⎢	**Cr**	**53**	**49.291**	ug/L	0.496	1	102	99854	1	Standard
⎣	**Mn**	**55**	**50.383**	ug/L	0.864	1	567	1266400	2	Standard
⎡>	**Ge**	**72**		ug/L			22652	22408	1	KED
⎢	**Ni**	**60**	**49.499**	ug/L	0.077	0	20	49572	0	KED
⎢	**Ni**	**62**	**48.829**	ug/L	0.938	1	7	8023	2	KED
⎢	**Cu**	**63**	**49.002**	ug/L	0.811	1	30	146247	1	KED
⎢	**Cu**	**65**	**49.258**	ug/L	0.800	1	24	72600	0	KED
⎢	**Zn**	**66**	**49.366**	ug/L	1.218	2	40	19573	1	KED
⎢	**Zn**	**67**	**48.417**	ug/L	1.239	2	3	3275	2	KED
⎣	**As**	**75**	**49.357**	ug/L	0.162	0	5	9861	0	KED
	Y	**89**		ug/L			208501	213698	2	Standard
	Kr	**83**		ug/L			52	64	25	Standard
⎡>	**In-1**	**115**		ug/L			6222	6210	2	KED
⎢	**Cd**	**111**	**49.427**	ug/L	1.386	2	2	11118	0	KED
⎣	**Cd**	**114**	**49.346**	ug/L	0.471	0	6	26977	2	KED
⎡>	**Tb**	**159**		ug/L			498579	514046	3	Standard
⎣	**Pb**	**208**	**49.918**	ug/L	1.570	3	109	2130878	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:20:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29334	2	Standard
	Cl	**37**		ug/L			3416101	3436340	1	Standard
⎡>	**Sc**	**45**		ug/L			429622	444026	1	Standard
⎢	**Cr**	**52**	**0.009**	ug/L	0.022	261	16425	17127	3	Standard
⎢	**Cr**	**53**	**-0.002**	ug/L	0.007	296	102	100	15	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.000	35	567	559	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	22579	4	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.003	24895	20	20	19	KED
⎢	**Ni**	**62**	**0.017**	ug/L	0.055	322	7	10	84	KED
⎢	**Cu**	**63**	**0.002**	ug/L	0.002	88	30	36	15	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.003	92	24	18	26	KED
⎢	**Zn**	**66**	**0.003**	ug/L	0.025	858	40	41	27	KED
⎢	**Zn**	**67**	**0.020**	ug/L	0.045	226	3	5	57	KED
⎣	**As**	**75**	**0.006**	ug/L	0.006	102	5	7	20	KED
	Y	**89**		ug/L			208501	221357	1	Standard
	Kr	**83**		ug/L			52	46	26	Standard
⎡>	**In-1**	**115**		ug/L			6222	6373	3	KED
⎢	**Cd**	**111**	**-0.002**	ug/L	0.004	271	2	1	50	KED
⎣	**Cd**	**114**	**-0.007**	ug/L	0.002	27	6	3	37	KED
⎡>	**Tb**	**159**		ug/L			498579	514436	3	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	254	109	118	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:29:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	56516	2	Standard
Cl	37		ug/L			3416101	3553139	0	Standard
> Sc	45		ug/L			429622	575188	3	Standard
Cr	52	15.845	ug/L	0.536	3	16425	384713	1	Standard
Cr	53	16.068	ug/L	0.410	2	102	43056	1	Standard
Mn	55	125.453	ug/L	2.425	1	567	4162523	3	Standard
> Ge	72		ug/L			22652	22372	2	KED
Ni	60	15.044	ug/L	0.432	2	20	15051	1	KED
Ni	62	15.287	ug/L	0.601	3	7	2512	4	KED
Cu	63	28.458	ug/L	0.361	1	30	84797	0	KED
Cu	65	28.531	ug/L	1.116	3	24	41976	2	KED
Zn	66	68.994	ug/L	1.609	2	40	27293	1	KED
Zn	67	67.023	ug/L	0.916	1	3	4525	0	KED
As	75	7.850	ug/L	0.270	3	5	1570	1	KED
Y	89		ug/L			208501	443638	1	Standard
Kr	83		ug/L			52	119	22	Standard
> In-1	115		ug/L			6222	6174	3	KED
Cd	111	0.381	ug/L	0.021	5	2	87	2	KED
Cd	114	0.360	ug/L	0.011	2	6	202	5	KED
> Tb	159		ug/L			498579	538315	3	Standard
Pb	208	23.369	ug/L	0.578	2	109	1044851	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:33:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	66731	2	Standard
Cl	37		ug/L			3416101	3687017	2	Standard
> Sc	45		ug/L			429622	599474	1	Standard
Cr	52	15.661	ug/L	0.207	1	16425	396920	3	Standard
Cr	53	15.614	ug/L	0.046	0	102	43639	2	Standard
Mn	55	131.560	ug/L	1.987	1	567	4550041	1	Standard
> Ge	72		ug/L			22652	22468	1	KED
Ni	60	15.446	ug/L	0.587	3	20	15520	3	KED
Ni	62	15.490	ug/L	0.213	1	7	2557	2	KED
Cu	63	27.634	ug/L	0.583	2	30	82700	1	KED
Cu	65	28.322	ug/L	0.858	3	24	41865	2	KED
Zn	66	69.905	ug/L	1.277	1	40	27776	1	KED
Zn	67	63.629	ug/L	1.285	2	3	4316	2	KED
As	75	7.691	ug/L	0.234	3	5	1545	2	KED
Y	89		ug/L			208501	474080	1	Standard
Kr	83		ug/L			52	147	12	Standard
> In-1	115		ug/L			6222	6146	3	KED
Cd	111	0.309	ug/L	0.030	9	2	71	11	KED
Cd	114	0.262	ug/L	0.029	10	6	148	10	KED
> Tb	159		ug/L			498579	568919	3	Standard
Pb	208	23.536	ug/L	1.045	4	109	1111642	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:38:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49621	3	Standard
	Cl	37		ug/L			3416101	3573766	2	Standard
>	Sc	45		ug/L			429622	605872	0	Standard
	Cr	52	37.753	ug/L	0.366	0	16425	934225	1	Standard
	Cr	53	38.300	ug/L	0.526	1	102	107979	1	Standard
	Mn	55	151.129	ug/L	3.838	2	567	5283429	2	Standard
>	Ge	72		ug/L			22652	23482	2	KED
	Ni	60	42.936	ug/L	0.663	1	20	45072	3	KED
	Ni	62	40.852	ug/L	0.468	1	7	7034	2	KED
	Cu	63	53.652	ug/L	1.545	2	30	167737	0	KED
	Cu	65	53.211	ug/L	0.716	1	24	82181	1	KED
	Zn	66	149.858	ug/L	1.793	1	40	62182	1	KED
	Zn	67	141.073	ug/L	2.418	1	3	9993	0	KED
	As	75	32.212	ug/L	0.648	2	5	6745	1	KED
	Y	89		ug/L			208501	480323	1	Standard
	Kr	83		ug/L			52	147	8	Standard
>	In-1	115		ug/L			6222	6528	3	KED
	Cd	111	25.322	ug/L	0.788	3	2	5987	0	KED
	Cd	114	25.581	ug/L	0.542	2	6	14699	1	KED
>	Tb	159		ug/L			498579	562590	3	Standard
	Pb	208	52.086	ug/L	1.736	3	109	2433264	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:42:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	51210	2	Standard
Cl	37		ug/L			3416101	3553843	2	Standard
> Sc	45		ug/L			429622	572917	0	Standard
Cr	52	36.222	ug/L	0.135	0	16425	848456	0	Standard
Cr	53	35.920	ug/L	0.617	1	102	95764	1	Standard
Mn	55	146.009	ug/L	3.613	2	567	4825927	1	Standard
> Ge	72		ug/L			22652	22850	0	KED
Ni	60	41.240	ug/L	0.070	0	20	42118	0	KED
Ni	62	40.282	ug/L	0.358	0	7	6750	1	KED
Cu	63	52.781	ug/L	0.999	1	30	160615	1	KED
Cu	65	52.457	ug/L	0.655	1	24	78841	0	KED
Zn	66	144.558	ug/L	5.010	3	40	58366	2	KED
Zn	67	134.641	ug/L	2.230	1	3	9283	1	KED
As	75	32.365	ug/L	0.123	0	5	6595	0	KED
Y	89		ug/L			208501	441470	1	Standard
Kr	83		ug/L			52	144	9	Standard
> In-1	115		ug/L			6222	6163	1	KED
Cd	111	25.041	ug/L	0.665	2	2	5592	1	KED
Cd	114	25.434	ug/L	0.431	1	6	13801	0	KED
> Tb	159		ug/L			498579	528633	1	Standard
Pb	208	45.923	ug/L	0.635	1	109	2017204	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:47:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	62256	1	Standard
	Cl	**37**		ug/L			3416101	3593992	1	Standard
>	**Sc**	**45**		ug/L			429622	604297	1	Standard
	Cr	**52**	**35.146**	ug/L	0.497	1	16425	868970	0	Standard
	Cr	**53**	**34.853**	ug/L	0.689	1	102	98000	0	Standard
	Mn	**55**	**145.248**	ug/L	3.608	2	567	5063387	1	Standard
>	**Ge**	**72**		ug/L			22652	22724	0	KED
	Ni	**60**	**39.759**	ug/L	0.861	2	20	40380	1	KED
	Ni	**62**	**39.478**	ug/L	0.441	1	7	6578	0	KED
	Cu	**63**	**53.091**	ug/L	0.912	1	30	160675	1	KED
	Cu	**65**	**52.275**	ug/L	0.887	1	24	78136	1	KED
	Zn	**66**	**143.214**	ug/L	4.054	2	40	57509	2	KED
	Zn	**67**	**134.466**	ug/L	1.527	1	3	9220	0	KED
	As	**75**	**31.882**	ug/L	0.181	0	5	6461	0	KED
	Y	**89**		ug/L			208501	460324	3	Standard
	Kr	**83**		ug/L			52	155	12	Standard
>	**In-1**	**115**		ug/L			6222	6167	2	KED
	Cd	**111**	**24.963**	ug/L	0.560	2	2	5577	0	KED
	Cd	**114**	**25.236**	ug/L	0.413	1	6	13700	0	KED
>	**Tb**	**159**		ug/L			498579	559426	2	Standard
	Pb	**208**	**46.822**	ug/L	1.181	2	109	2175996	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:53:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	45749	1	Standard
	Cl	37		ug/L			3416101	3498496	0	Standard
>	Sc	45		ug/L			429622	651206	3	Standard
	Cr	52	18.755	ug/L	0.271	1	16425	511211	2	Standard
	Cr	53	18.982	ug/L	0.326	1	102	57575	2	Standard
	Mn	55	240.141	ug/L	7.543	3	567	9016365	1	Standard
>	Ge	72		ug/L			22652	22764	1	KED
	Ni	60	18.758	ug/L	0.351	1	20	19093	0	KED
	Ni	62	18.914	ug/L	0.488	2	7	3160	2	KED
	Cu	63	125.257	ug/L	1.724	1	30	379693	1	KED
	Cu	65	124.296	ug/L	1.123	0	24	186099	2	KED
	Zn	66	156.708	ug/L	4.505	2	40	63026	2	KED
	Zn	67	146.245	ug/L	4.366	2	3	10042	1	KED
	As	75	3.481	ug/L	0.084	2	5	711	0	KED
	Y	89		ug/L			208501	562581	0	Standard
	Kr	83		ug/L			52	188	10	Standard
>	In-1	115		ug/L			6222	6563	1	KED
	Cd	111	0.279	ug/L	0.008	2	2	68	2	KED
	Cd	114	0.244	ug/L	0.050	20	6	148	18	KED
>	Tb	159		ug/L			498579	560464	4	Standard
	Pb	208	46.637	ug/L	1.465	3	109	2170223	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:57:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	40393	0	Standard
	Cl	37		ug/L			3416101	3485697	1	Standard
>	Sc	45		ug/L			429622	622694	3	Standard
	Cr	52	12.029	ug/L	0.336	2	16425	321953	0	Standard
	Cr	53	12.127	ug/L	0.204	1	102	35226	1	Standard
	Mn	55	175.195	ug/L	2.895	1	567	6291969	1	Standard
>	Ge	72		ug/L			22652	22202	1	KED
	Ni	60	19.391	ug/L	0.629	3	20	19250	2	KED
	Ni	62	19.390	ug/L	0.707	3	7	3160	3	KED
	Cu	63	20.741	ug/L	0.344	1	30	61341	0	KED
	Cu	65	20.499	ug/L	0.671	3	24	29943	2	KED
	Zn	66	50.672	ug/L	0.477	0	40	19908	1	KED
	Zn	67	56.914	ug/L	2.087	3	3	3814	3	KED
	As	75	2.726	ug/L	0.144	5	5	544	4	KED
	Y	89		ug/L			208501	544333	4	Standard
	Kr	83		ug/L			52	180	8	Standard
>	In-1	115		ug/L			6222	6420	3	KED
	Cd	111	0.060	ug/L	0.009	15	2	16	15	KED
	Cd	114	0.068	ug/L	0.002	3	6	45	2	KED
>	Tb	159		ug/L			498579	564914	4	Standard
	Pb	208	5.801	ug/L	0.211	3	109	272205	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:01:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	38378	4	Standard
Cl	37		ug/L			3416101	3497347	0	Standard
> Sc	45		ug/L			429622	587945	5	Standard
Cr	52	11.106	ug/L	0.145	1	16425	282483	4	Standard
Cr	53	11.278	ug/L	0.136	1	102	30945	4	Standard
Mn	55	184.428	ug/L	1.446	0	567	6255542	4	Standard
> Ge	72		ug/L			22652	23117	1	KED
Ni	60	19.800	ug/L	0.357	1	20	20466	0	KED
Ni	62	18.886	ug/L	0.325	1	7	3205	1	KED
Cu	63	14.566	ug/L	0.200	1	30	44865	0	KED
Cu	65	14.840	ug/L	0.327	2	24	22582	1	KED
Zn	66	42.893	ug/L	0.275	0	40	17552	0	KED
Zn	67	47.729	ug/L	1.499	3	3	3331	3	KED
As	75	1.773	ug/L	0.138	7	5	371	6	KED
Y	89		ug/L			208501	507399	5	Standard
Kr	83		ug/L			52	130	4	Standard
> In-1	115		ug/L			6222	6403	1	KED
Cd	111	0.033	ug/L	0.005	14	2	9	11	KED
Cd	114	0.036	ug/L	0.014	38	6	27	26	KED
> Tb	159		ug/L			498579	554384	7	Standard
Pb	208	2.503	ug/L	0.143	5	109	115104	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:06:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	38069	0	Standard
Cl	37		ug/L			3416101	3499645	1	Standard
> Sc	45		ug/L			429622	587504	0	Standard
Cr	52	10.627	ug/L	0.165	1	16425	271110	0	Standard
Cr	53	10.796	ug/L	0.062	0	102	29614	1	Standard
Mn	55	193.924	ug/L	1.395	0	567	6573200	0	Standard
> Ge	72		ug/L			22652	23355	1	KED
Ni	60	17.849	ug/L	0.903	5	20	18638	4	KED
Ni	62	17.934	ug/L	1.118	6	7	3073	4	KED
Cu	63	15.555	ug/L	0.558	3	30	48397	2	KED
Cu	65	15.709	ug/L	0.420	2	24	24146	1	KED
Zn	66	41.452	ug/L	1.634	3	40	17132	2	KED
Zn	67	49.096	ug/L	1.766	3	3	3461	2	KED
As	75	1.882	ug/L	0.019	1	5	397	2	KED
Y	89		ug/L			208501	516913	1	Standard
Kr	83		ug/L			52	130	16	Standard
> In-1	115		ug/L			6222	6347	0	KED
Cd	111	0.058	ug/L	0.023	39	2	15	33	KED
Cd	114	0.030	ug/L	0.012	39	6	23	27	KED
> Tb	159		ug/L			498579	547977	2	Standard
Pb	208	2.582	ug/L	0.092	3	109	117635	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:10:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	38499	0	Standard
Cl	37		ug/L			3416101	3436714	2	Standard
> Sc	45		ug/L			429622	590895	2	Standard
Cr	52	15.120	ug/L	0.334	2	16425	378345	1	Standard
Cr	53	15.430	ug/L	0.338	2	102	42491	0	Standard
Mn	55	205.866	ug/L	6.296	3	567	7014591	0	Standard
> Ge	72		ug/L			22652	22189	1	KED
Ni	60	22.496	ug/L	0.436	1	20	22319	2	KED
Ni	62	22.373	ug/L	0.156	0	7	3643	0	KED
Cu	63	18.515	ug/L	0.284	1	30	54732	0	KED
Cu	65	19.133	ug/L	0.416	2	24	27941	2	KED
Zn	66	44.452	ug/L	0.524	1	40	17460	2	KED
Zn	67	51.710	ug/L	1.353	2	3	3465	3	KED
As	75	2.303	ug/L	0.131	5	5	460	5	KED
Y	89		ug/L			208501	595323	0	Standard
Kr	83		ug/L			52	174	9	Standard
> In-1	115		ug/L			6222	6152	1	KED
Cd	111	0.066	ug/L	0.004	5	2	16	3	KED
Cd	114	0.053	ug/L	0.008	14	6	35	9	KED
> Tb	159		ug/L			498579	541074	2	Standard
Pb	208	2.982	ug/L	0.051	1	109	134137	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 21:17:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31168	4	Standard
	Cl	**37**		ug/L			3416101	3666992	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	434741	1	Standard
⎢	**Cr**	**52**	**49.633**	ug/L	0.354	0	16425	876078	1	Standard
⎢	**Cr**	**53**	**48.647**	ug/L	0.128	0	102	98379	0	Standard
⎣	**Mn**	**55**	**50.118**	ug/L	0.284	0	567	1257482	0	Standard
⎡>	**Ge**	**72**		ug/L			22652	21515	0	KED
⎢	**Ni**	**60**	**50.869**	ug/L	1.612	3	20	48910	2	KED
⎢	**Ni**	**62**	**49.716**	ug/L	0.488	0	7	7842	0	KED
⎢	**Cu**	**63**	**49.663**	ug/L	0.771	1	30	142306	1	KED
⎢	**Cu**	**65**	**50.203**	ug/L	0.431	0	24	71050	0	KED
⎢	**Zn**	**66**	**50.312**	ug/L	1.544	3	40	19152	2	KED
⎢	**Zn**	**67**	**50.148**	ug/L	1.547	3	3	3257	2	KED
⎣	**As**	**75**	**50.676**	ug/L	1.209	2	5	9721	2	KED
	Y	**89**		ug/L			208501	214811	0	Standard
	Kr	**83**		ug/L			52	42	2	Standard
⎡>	**In-1**	**115**		ug/L			6222	5999	0	KED
⎢	**Cd**	**111**	**50.210**	ug/L	1.210	2	2	10913	1	KED
⎣	**Cd**	**114**	**49.810**	ug/L	0.928	1	6	26302	1	KED
⎡>	**Tb**	**159**		ug/L			498579	506574	4	Standard
⎣	**Pb**	**208**	**50.439**	ug/L	1.660	3	109	2121582	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 21:24:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	28231	2	Standard
	Cl	**37**		ug/L			3416101	3328721	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	425027	1	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.013	172	16425	16378	2	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.001	7	102	85	2	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	60	567	630	6	Standard
⌈>	**Ge**	**72**		ug/L			22652	21828	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	54	20	13	20	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.013	526	7	6	31	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	73	30	39	18	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.005	91	24	15	45	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.017	81	40	31	23	KED
|	**Zn**	**67**	**0.050**	ug/L	0.043	86	3	6	41	KED
⌊	**As**	**75**	**0.003**	ug/L	0.009	333	5	6	27	KED
	Y	**89**		ug/L			208501	214115	4	Standard
	Kr	**83**		ug/L			52	46	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	6043	3	KED
|	**Cd**	**111**	**0.009**	ug/L	0.007	80	2	4	35	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	31	6	3	36	KED
⌈>	**Tb**	**159**		ug/L			498579	492267	4	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	84	109	121	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 21:30:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32769	3	Standard
	Cl	**37**		ug/L			3416101	3360007	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460983	0	Standard
|	**Cr**	**52**	**1.583**	ug/L	0.060	3	16425	46696	2	Standard
|	**Cr**	**53**	**1.632**	ug/L	0.026	1	102	3606	1	Standard
⌊	**Mn**	**55**	**42.753**	ug/L	1.270	2	567	1137555	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	22965	0	KED
|	**Ni**	**60**	**1.333**	ug/L	0.025	1	20	1388	1	KED
|	**Ni**	**62**	**1.267**	ug/L	0.140	11	7	220	11	KED
|	**Cu**	**63**	**14.384**	ug/L	0.366	2	30	44016	2	KED
|	**Cu**	**65**	**14.049**	ug/L	0.360	2	24	21239	2	KED
|	**Zn**	**66**	**15.638**	ug/L	0.369	2	40	6383	1	KED
|	**Zn**	**67**	**14.604**	ug/L	1.019	6	3	1015	6	KED
⌊	**As**	**75**	**0.432**	ug/L	0.040	9	5	94	8	KED
	Y	**89**		ug/L			208501	244204	1	Standard
	Kr	**83**		ug/L			52	57	10	Standard
⌈>	**In-1**	**115**		ug/L			6222	6214	2	KED
|	**Cd**	**111**	**0.030**	ug/L	0.014	46	2	8	32	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.007	74	6	12	33	KED
⌈>	**Tb**	**159**		ug/L			498579	522653	1	Standard
⌊	**Pb**	**208**	**1.706**	ug/L	0.047	2	109	74177	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-25
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:35:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36950	4	Standard
	Cl	**37**		ug/L			3416101	3348458	4	Standard
⌈>	**Sc**	**45**		ug/L			429622	510986	7	Standard
|	**Cr**	**52**	**6.947**	ug/L	0.043	0	16425	160957	7	Standard
|	**Cr**	**53**	**7.168**	ug/L	0.192	2	102	17133	6	Standard
⌊	**Mn**	**55**	**178.843**	ug/L	4.747	2	567	5272051	7	Standard
⌈>	**Ge**	**72**		ug/L			22652	23785	0	KED
|	**Ni**	**60**	**6.559**	ug/L	0.122	1	20	6990	1	KED
|	**Ni**	**62**	**6.405**	ug/L	0.201	3	7	1123	3	KED
|	**Cu**	**63**	**67.232**	ug/L	0.661	0	30	212973	0	KED
|	**Cu**	**65**	**68.661**	ug/L	0.726	1	24	107421	1	KED
|	**Zn**	**66**	**72.988**	ug/L	1.411	1	40	30702	2	KED
|	**Zn**	**67**	**68.701**	ug/L	0.862	1	3	4932	1	KED
⌊	**As**	**75**	**2.125**	ug/L	0.044	2	5	456	2	KED
	Y	**89**		ug/L			208501	341924	8	Standard
	Kr	**83**		ug/L			52	93	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6622	0	KED
|	**Cd**	**111**	**0.084**	ug/L	0.013	16	2	22	14	KED
⌊	**Cd**	**114**	**0.074**	ug/L	0.021	27	6	50	23	KED
⌈>	**Tb**	**159**		ug/L			498579	513382	4	Standard
⌊	**Pb**	**208**	**8.266**	ug/L	0.131	1	109	352917	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:43:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36621	5	Standard
	Cl	**37**		ug/L			3416101	3415109	4	Standard
⌈>	**Sc**	**45**		ug/L			429622	512853	0	Standard
|	**Cr**	**52**	**7.818**	ug/L	0.090	1	16425	179309	1	Standard
|	**Cr**	**53**	**7.839**	ug/L	0.067	0	102	18804	0	Standard
⌊	**Mn**	**55**	**178.327**	ug/L	0.620	0	567	5276760	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22261	1	KED
|	**Ni**	**60**	**7.337**	ug/L	0.237	3	20	7318	4	KED
|	**Ni**	**62**	**7.469**	ug/L	0.418	5	7	1224	4	KED
|	**Cu**	**63**	**69.282**	ug/L	1.307	1	30	205405	2	KED
|	**Cu**	**65**	**69.871**	ug/L	1.987	2	24	102322	3	KED
|	**Zn**	**66**	**72.792**	ug/L	2.608	3	40	28649	2	KED
|	**Zn**	**67**	**69.269**	ug/L	2.416	3	3	4653	2	KED
⌊	**As**	**75**	**2.067**	ug/L	0.092	4	5	415	3	KED
	Y	**89**		ug/L			208501	351106	2	Standard
	Kr	**83**		ug/L			52	85	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	6056	2	KED
|	**Cd**	**111**	**0.110**	ug/L	0.017	15	2	26	12	KED
⌊	**Cd**	**114**	**0.092**	ug/L	0.007	7	6	55	9	KED
⌈>	**Tb**	**159**		ug/L			498579	515225	2	Standard
⌊	**Pb**	**208**	**8.991**	ug/L	0.195	2	109	384911	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:47:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	37342	0	Standard
Cl	37		ug/L			3416101	3421286	1	Standard
> Sc	45		ug/L			429622	545832	2	Standard
Cr	52	16.844	ug/L	0.214	1	16425	387035	2	Standard
Cr	53	17.296	ug/L	0.400	2	102	44008	4	Standard
Mn	55	188.393	ug/L	2.013	1	567	5932891	2	Standard
> Ge	72		ug/L			22652	23435	1	KED
Ni	60	18.073	ug/L	0.295	1	20	18939	0	KED
Ni	62	17.883	ug/L	0.504	2	7	3078	4	KED
Cu	63	94.704	ug/L	0.501	0	30	295568	1	KED
Cu	65	93.552	ug/L	1.277	1	24	144177	0	KED
Zn	66	113.829	ug/L	1.122	0	40	47157	2	KED
Zn	67	106.321	ug/L	1.945	1	3	7518	0	KED
As	75	11.912	ug/L	0.292	2	5	2493	2	KED
Y	89		ug/L			208501	378246	2	Standard
Kr	83		ug/L			52	108	29	Standard
> In-1	115		ug/L			6222	6483	1	KED
Cd	111	10.808	ug/L	0.116	1	2	2540	1	KED
Cd	114	10.789	ug/L	0.238	2	6	6163	2	KED
> Tb	159		ug/L			498579	536548	4	Standard
Pb	208	19.974	ug/L	0.587	2	109	889971	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:52:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35329	2	Standard
	Cl	**37**		ug/L			3416101	3495278	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	522864	1	Standard
|	**Cr**	**52**	**16.917**	ug/L	0.371	2	16425	372252	0	Standard
|	**Cr**	**53**	**16.807**	ug/L	0.219	1	102	40957	0	Standard
⌊	**Mn**	**55**	**238.098**	ug/L	1.706	0	567	7182666	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22411	0	KED
|	**Ni**	**60**	**18.652**	ug/L	0.610	3	20	18692	2	KED
|	**Ni**	**62**	**18.196**	ug/L	0.861	4	7	2993	3	KED
|	**Cu**	**63**	**82.278**	ug/L	0.226	0	30	245569	0	KED
|	**Cu**	**65**	**83.327**	ug/L	1.156	1	24	122823	1	KED
|	**Zn**	**66**	**110.875**	ug/L	0.742	0	40	43923	1	KED
|	**Zn**	**67**	**102.047**	ug/L	1.523	1	3	6901	0	KED
⌊	**As**	**75**	**11.943**	ug/L	0.416	3	5	2390	3	KED
	Y	**89**		ug/L			208501	358541	2	Standard
	Kr	**83**		ug/L			52	104	18	Standard
⌈>	**In-1**	**115**		ug/L			6222	6163	2	KED
|	**Cd**	**111**	**10.573**	ug/L	0.308	2	2	2363	3	KED
⌊	**Cd**	**114**	**10.864**	ug/L	0.378	3	6	5898	2	KED
⌈>	**Tb**	**159**		ug/L			498579	520646	3	Standard
⌊	**Pb**	**208**	**19.540**	ug/L	0.709	3	109	844780	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:56:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	37694	0	Standard
	Cl	**37**		ug/L			3416101	3351546	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	501226	0	Standard
|	**Cr**	**52**	**29.835**	ug/L	0.469	1	16425	614753	0	Standard
|	**Cr**	**53**	**30.188**	ug/L	0.539	1	102	70427	1	Standard
⌊	**Mn**	**55**	**207.563**	ug/L	3.241	1	567	6002068	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22603	1	KED
|	**Ni**	**60**	**32.510**	ug/L	0.503	1	20	32844	0	KED
|	**Ni**	**62**	**32.863**	ug/L	1.409	4	7	5446	2	KED
|	**Cu**	**63**	**95.182**	ug/L	0.392	0	30	286536	2	KED
|	**Cu**	**65**	**96.112**	ug/L	0.528	0	24	142877	1	KED
|	**Zn**	**66**	**157.316**	ug/L	1.130	0	40	62835	1	KED
|	**Zn**	**67**	**149.266**	ug/L	4.233	2	3	10177	1	KED
⌊	**As**	**75**	**27.545**	ug/L	0.331	1	5	5553	1	KED
	Y	**89**		ug/L			208501	344555	2	Standard
	Kr	**83**		ug/L			52	106	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6294	1	KED
|	**Cd**	**111**	**25.870**	ug/L	0.585	2	2	5900	1	KED
⌊	**Cd**	**114**	**26.669**	ug/L	0.790	2	6	14777	1	KED
⌈>	**Tb**	**159**		ug/L			498579	516235	2	Standard
⌊	**Pb**	**208**	**34.752**	ug/L	0.928	2	109	1490377	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:01:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	38446	2	Standard
	Cl	37		ug/L			3416101	3480483	1	Standard
>	Sc	45		ug/L			429622	652384	1	Standard
	Cr	52	17.095	ug/L	0.249	1	16425	469094	0	Standard
	Cr	53	17.086	ug/L	0.463	2	102	51957	3	Standard
	Mn	55	193.596	ug/L	2.404	1	567	7286013	0	Standard
>	Ge	72		ug/L			22652	22245	0	KED
	Ni	60	19.278	ug/L	0.200	1	20	19178	1	KED
	Ni	62	19.381	ug/L	0.597	3	7	3165	3	KED
	Cu	63	20.587	ug/L	0.358	1	30	61012	1	KED
	Cu	65	21.248	ug/L	0.326	1	24	31104	1	KED
	Zn	66	45.102	ug/L	0.757	1	40	17758	1	KED
	Zn	67	52.733	ug/L	1.076	2	3	3542	2	KED
	As	75	2.549	ug/L	0.049	1	5	510	1	KED
	Y	89		ug/L			208501	557040	2	Standard
	Kr	83		ug/L			52	171	10	Standard
>	In-1	115		ug/L			6222	6171	1	KED
	Cd	111	0.065	ug/L	0.012	19	2	16	17	KED
	Cd	114	0.066	ug/L	0.027	41	6	42	33	KED
>	Tb	159		ug/L			498579	529246	2	Standard
	Pb	208	3.695	ug/L	0.059	1	109	162599	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:05:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	42791	2	Standard
	Cl	37		ug/L			3416101	3466894	4	Standard
>	Sc	45		ug/L			429622	650540	1	Standard
	Cr	52	15.716	ug/L	0.190	1	16425	432050	1	Standard
	Cr	53	15.968	ug/L	0.243	1	102	48416	0	Standard
	Mn	55	184.105	ug/L	1.087	0	567	6909882	1	Standard
>	Ge	72		ug/L			22652	21567	1	KED
	Ni	60	20.114	ug/L	0.322	1	20	19396	0	KED
	Ni	62	19.687	ug/L	0.170	0	7	3117	0	KED
	Cu	63	22.237	ug/L	0.274	1	30	63899	2	KED
	Cu	65	22.166	ug/L	0.219	0	24	31458	0	KED
	Zn	66	47.707	ug/L	1.217	2	40	18209	2	KED
	Zn	67	55.199	ug/L	0.943	1	3	3594	2	KED
	As	75	2.320	ug/L	0.019	0	5	451	0	KED
	Y	89		ug/L			208501	565908	2	Standard
	Kr	83		ug/L			52	193	12	Standard
>	In-1	115		ug/L			6222	5930	1	KED
	Cd	111	0.069	ug/L	0.022	32	2	16	26	KED
	Cd	114	0.067	ug/L	0.014	21	6	41	16	KED
>	Tb	159		ug/L			498579	532526	3	Standard
	Pb	208	3.611	ug/L	0.105	2	109	159795	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:10:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46762	2	Standard
	Cl	37		ug/L			3416101	3514699	3	Standard
>	Sc	45		ug/L			429622	657737	1	Standard
	Cr	52	15.292	ug/L	0.230	1	16425	425747	1	Standard
	Cr	53	15.671	ug/L	0.664	4	102	48032	2	Standard
	Mn	55	162.071	ug/L	3.855	2	567	6149178	1	Standard
>	Ge	72		ug/L			22652	22750	3	KED
	Ni	60	14.946	ug/L	0.272	1	20	15204	1	KED
	Ni	62	14.794	ug/L	0.156	1	7	2472	2	KED
	Cu	63	17.092	ug/L	0.581	3	30	51776	2	KED
	Cu	65	16.919	ug/L	0.602	3	24	25325	3	KED
	Zn	66	38.504	ug/L	0.217	0	40	15512	3	KED
	Zn	67	46.345	ug/L	1.745	3	3	3181	0	KED
	As	75	2.334	ug/L	0.152	6	5	478	3	KED
	Y	89		ug/L			208501	570365	2	Standard
	Kr	83		ug/L			52	186	16	Standard
>	In-1	115		ug/L			6222	6281	0	KED
	Cd	111	0.054	ug/L	0.013	23	2	14	19	KED
	Cd	114	0.063	ug/L	0.013	21	6	41	17	KED
>	Tb	159		ug/L			498579	548942	2	Standard
	Pb	208	3.450	ug/L	0.034	0	109	157495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:14:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	49197	4	Standard
Cl	37		ug/L			3416101	3536734	0	Standard
> Sc	45		ug/L			429622	736691	2	Standard
Cr	52	16.899	ug/L	0.162	0	16425	523984	1	Standard
Cr	53	17.048	ug/L	0.037	0	102	58537	2	Standard
Mn	55	148.796	ug/L	3.862	2	567	6322531	0	Standard
> Ge	72		ug/L			22652	22423	0	KED
Ni	60	17.273	ug/L	0.087	0	20	17322	0	KED
Ni	62	16.912	ug/L	0.384	2	7	2785	2	KED
Cu	63	21.968	ug/L	0.559	2	30	65620	1	KED
Cu	65	22.166	ug/L	0.325	1	24	32709	1	KED
Zn	66	52.695	ug/L	1.145	2	40	20906	1	KED
Zn	67	56.418	ug/L	2.065	3	3	3820	4	KED
As	75	2.308	ug/L	0.110	4	5	466	5	KED
Y	89		ug/L			208501	650855	2	Standard
Kr	83		ug/L			52	234	6	Standard
> In-1	115		ug/L			6222	6018	1	KED
Cd	111	0.083	ug/L	0.010	12	2	20	11	KED
Cd	114	0.071	ug/L	0.031	43	6	43	35	KED
> Tb	159		ug/L			498579	558397	3	Standard
Pb	208	4.136	ug/L	0.144	3	109	191889	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 22:21:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31157	2	Standard
	Cl	**37**		ug/L			3416101	3618929	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	420383	1	Standard
⎢	**Cr**	**52**	**50.546**	ug/L	0.344	0	16425	862360	1	Standard
⎢	**Cr**	**53**	**50.605**	ug/L	0.635	1	102	98943	0	Standard
⎣	**Mn**	**55**	**51.822**	ug/L	0.433	0	567	1257198	0	Standard
⎡>	**Ge**	**72**		ug/L			22652	21487	0	KED
⎢	**Ni**	**60**	**49.839**	ug/L	0.606	1	20	47863	1	KED
⎢	**Ni**	**62**	**50.795**	ug/L	0.424	0	7	8002	1	KED
⎢	**Cu**	**63**	**50.219**	ug/L	1.292	2	30	143718	2	KED
⎢	**Cu**	**65**	**50.642**	ug/L	0.674	1	24	71577	0	KED
⎢	**Zn**	**66**	**50.420**	ug/L	0.518	1	40	19170	0	KED
⎢	**Zn**	**67**	**49.883**	ug/L	1.347	2	3	3236	2	KED
⎣	**As**	**75**	**49.815**	ug/L	0.436	0	5	9543	0	KED
	Y	**89**		ug/L			208501	206034	1	Standard
	Kr	**83**		ug/L			52	57	17	Standard
⎡>	**In-1**	**115**		ug/L			6222	5930	3	KED
⎢	**Cd**	**111**	**51.069**	ug/L	1.784	3	2	10963	0	KED
⎣	**Cd**	**114**	**51.210**	ug/L	1.494	2	6	26715	1	KED
⎡>	**Tb**	**159**		ug/L			498579	492587	3	Standard
⎣	**Pb**	**208**	**52.062**	ug/L	1.589	3	109	2129489	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 22:29:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	28002	1	Standard
	Cl	**37**		ug/L			3416101	3314931	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	398335	1	Standard
|	**Cr**	**52**	**0.028**	ug/L	0.003	9	16425	15674	2	Standard
|	**Cr**	**53**	**-0.001**	ug/L	0.004	389	102	93	7	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	33	567	571	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21763	3	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.009	361	20	17	48	KED
|	**Ni**	**62**	**-0.026**	ug/L	0.019	71	7	3	91	KED
|	**Cu**	**63**	**0.003**	ug/L	0.005	158	30	38	39	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.000	5	24	15	0	KED
|	**Zn**	**66**	**-0.001**	ug/L	0.040	3843	40	38	40	KED
|	**Zn**	**67**	**0.052**	ug/L	0.047	91	3	6	41	KED
⌊	**As**	**75**	**0.007**	ug/L	0.007	107	5	6	20	KED
	Y	**89**		ug/L			208501	197792	1	Standard
	Kr	**83**		ug/L			52	36	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5775	2	KED
|	**Cd**	**111**	**0.011**	ug/L	0.010	84	2	4	44	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.007	122	6	3	89	KED
⌈>	**Tb**	**159**		ug/L			498579	467450	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	90	109	118	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 22:33:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32522	2	Standard
	Cl	**37**		ug/L			3416101	3288169	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	434060	3	Standard
|	**Cr**	**52**	**2.227**	ug/L	0.006	0	16425	55098	3	Standard
|	**Cr**	**53**	**2.306**	ug/L	0.045	1	102	4753	1	Standard
⌊	**Mn**	**55**	**28.582**	ug/L	0.336	1	567	716090	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21449	0	KED
|	**Ni**	**60**	**1.817**	ug/L	0.047	2	20	1760	1	KED
|	**Ni**	**62**	**1.688**	ug/L	0.120	7	7	272	6	KED
|	**Cu**	**63**	**7.117**	ug/L	0.053	0	30	20357	1	KED
|	**Cu**	**65**	**6.974**	ug/L	0.091	1	24	9858	0	KED
|	**Zn**	**66**	**16.720**	ug/L	0.258	1	40	6371	0	KED
|	**Zn**	**67**	**15.287**	ug/L	0.614	4	3	992	3	KED
⌊	**As**	**75**	**0.342**	ug/L	0.036	10	5	70	8	KED
	Y	**89**		ug/L			208501	231742	0	Standard
	Kr	**83**		ug/L			52	55	15	Standard
⌈>	**In-1**	**115**		ug/L			6222	5879	2	KED
|	**Cd**	**111**	**0.037**	ug/L	0.026	68	2	10	56	KED
⌊	**Cd**	**114**	**0.019**	ug/L	0.017	92	6	16	55	KED
⌈>	**Tb**	**159**		ug/L			498579	487241	4	Standard
⌊	**Pb**	**208**	**4.696**	ug/L	0.134	2	109	190102	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-02
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:37:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	41956	3	Standard
	Cl	**37**		ug/L			3416101	3378365	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	523593	1	Standard
|	**Cr**	**52**	**9.601**	ug/L	0.139	1	16425	220265	2	Standard
|	**Cr**	**53**	**9.731**	ug/L	0.119	1	102	23798	0	Standard
⌊	**Mn**	**55**	**116.999**	ug/L	1.175	1	567	3534573	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22536	2	KED
|	**Ni**	**60**	**8.262**	ug/L	0.071	0	20	8337	1	KED
|	**Ni**	**62**	**8.396**	ug/L	0.447	5	7	1392	3	KED
|	**Cu**	**63**	**33.005**	ug/L	0.501	1	30	99053	0	KED
|	**Cu**	**65**	**33.527**	ug/L	0.980	2	24	49693	1	KED
|	**Zn**	**66**	**76.153**	ug/L	1.565	2	40	30340	0	KED
|	**Zn**	**67**	**71.244**	ug/L	0.828	1	3	4845	1	KED
⌊	**As**	**75**	**1.754**	ug/L	0.040	2	5	358	1	KED
	Y	**89**		ug/L			208501	371244	2	Standard
	Kr	**83**		ug/L			52	113	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	6324	0	KED
|	**Cd**	**111**	**0.174**	ug/L	0.020	11	2	42	10	KED
⌊	**Cd**	**114**	**0.135**	ug/L	0.014	10	6	82	10	KED
⌈>	**Tb**	**159**		ug/L			498579	531146	4	Standard
⌊	**Pb**	**208**	**21.617**	ug/L	0.789	3	109	953333	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:42:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36772	2	Standard
	Cl	**37**		ug/L			3416101	3375995	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	506211	2	Standard
|	**Cr**	**52**	**9.658**	ug/L	0.262	2	16425	214004	1	Standard
|	**Cr**	**53**	**9.833**	ug/L	0.190	1	102	23243	1	Standard
⌊	**Mn**	**55**	**115.608**	ug/L	0.960	0	567	3376336	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21583	2	KED
|	**Ni**	**60**	**8.330**	ug/L	0.283	3	20	8047	2	KED
|	**Ni**	**62**	**8.533**	ug/L	0.304	3	7	1355	1	KED
|	**Cu**	**63**	**32.897**	ug/L	0.837	2	30	94547	1	KED
|	**Cu**	**65**	**32.633**	ug/L	0.827	2	24	46333	2	KED
|	**Zn**	**66**	**76.416**	ug/L	1.804	2	40	29159	1	KED
|	**Zn**	**67**	**74.310**	ug/L	1.930	2	3	4839	0	KED
⌊	**As**	**75**	**2.318**	ug/L	0.044	1	5	451	1	KED
	Y	**89**		ug/L			208501	352283	3	Standard
	Kr	**83**		ug/L			52	80	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5976	0	KED
|	**Cd**	**111**	**0.176**	ug/L	0.012	6	2	40	5	KED
⌊	**Cd**	**114**	**0.154**	ug/L	0.002	1	6	87	1	KED
⌈>	**Tb**	**159**		ug/L			498579	501836	3	Standard
⌊	**Pb**	**208**	**24.170**	ug/L	0.734	3	109	1007279	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:46:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	37051	1	Standard
	Cl	**37**		ug/L			3416101	3404997	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	517829	2	Standard
|	**Cr**	**52**	**18.596**	ug/L	0.572	3	16425	403231	2	Standard
|	**Cr**	**53**	**19.040**	ug/L	0.162	0	102	45936	2	Standard
⌊	**Mn**	**55**	**125.449**	ug/L	2.341	1	567	3747523	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21663	1	KED
|	**Ni**	**60**	**19.261**	ug/L	0.741	3	20	18655	2	KED
|	**Ni**	**62**	**19.277**	ug/L	0.893	4	7	3065	3	KED
|	**Cu**	**63**	**43.535**	ug/L	1.449	3	30	125582	2	KED
|	**Cu**	**65**	**43.738**	ug/L	0.461	1	24	62326	0	KED
|	**Zn**	**66**	**122.251**	ug/L	2.016	1	40	46805	1	KED
|	**Zn**	**67**	**112.199**	ug/L	2.697	2	3	7333	1	KED
⌊	**As**	**75**	**11.299**	ug/L	0.229	2	5	2186	0	KED
	Y	**89**		ug/L			208501	359585	0	Standard
	Kr	**83**		ug/L			52	100	16	Standard
⌈>	**In-1**	**115**		ug/L			6222	6035	1	KED
|	**Cd**	**111**	**10.763**	ug/L	0.428	3	2	2354	2	KED
⌊	**Cd**	**114**	**10.472**	ug/L	0.051	0	6	5569	2	KED
⌈>	**Tb**	**159**		ug/L			498579	515767	1	Standard
⌊	**Pb**	**208**	**33.474**	ug/L	0.743	2	109	1434462	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:50:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	38200	0	Standard
	Cl	**37**		ug/L			3416101	3305780	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	507760	1	Standard
|	**Cr**	**52**	**18.989**	ug/L	0.239	1	16425	403464	2	Standard
|	**Cr**	**53**	**19.177**	ug/L	0.198	1	102	45364	1	Standard
⌊	**Mn**	**55**	**126.628**	ug/L	2.487	1	567	3710520	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21739	2	KED
|	**Ni**	**60**	**19.423**	ug/L	0.589	3	20	18877	2	KED
|	**Ni**	**62**	**19.445**	ug/L	0.250	1	7	3103	1	KED
|	**Cu**	**63**	**47.219**	ug/L	0.743	1	30	136689	0	KED
|	**Cu**	**65**	**47.803**	ug/L	0.325	0	24	68356	2	KED
|	**Zn**	**66**	**110.906**	ug/L	2.740	2	40	42603	0	KED
|	**Zn**	**67**	**104.372**	ug/L	0.788	0	3	6847	2	KED
⌊	**As**	**75**	**11.433**	ug/L	0.269	2	5	2219	1	KED
	Y	**89**		ug/L			208501	346328	3	Standard
	Kr	**83**		ug/L			52	99	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5908	2	KED
|	**Cd**	**111**	**10.936**	ug/L	0.366	3	2	2341	1	KED
⌊	**Cd**	**114**	**10.925**	ug/L	0.395	3	6	5683	0	KED
⌈>	**Tb**	**159**		ug/L			498579	511473	4	Standard
⌊	**Pb**	**208**	**32.254**	ug/L	1.247	3	109	1369407	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:55:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	40597	1	Standard
	Cl	**37**		ug/L			3416101	3372676	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	493028	5	Standard
|	**Cr**	**52**	**32.816**	ug/L	1.248	3	16425	662415	2	Standard
|	**Cr**	**53**	**32.977**	ug/L	1.155	3	102	75571	2	Standard
⌊	**Mn**	**55**	**143.695**	ug/L	5.791	4	567	4081614	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22147	2	KED
|	**Ni**	**60**	**33.665**	ug/L	0.675	2	20	33319	1	KED
|	**Ni**	**62**	**34.126**	ug/L	1.096	3	7	5540	0	KED
|	**Cu**	**63**	**59.760**	ug/L	1.464	2	30	176208	0	KED
|	**Cu**	**65**	**58.879**	ug/L	2.549	4	24	85715	1	KED
|	**Zn**	**66**	**159.591**	ug/L	3.387	2	40	62446	1	KED
|	**Zn**	**67**	**145.748**	ug/L	4.209	2	3	9736	1	KED
⌊	**As**	**75**	**27.034**	ug/L	0.535	1	5	5339	0	KED
	Y	**89**		ug/L			208501	354766	3	Standard
	Kr	**83**		ug/L			52	93	13	Standard
⌈>	**In-1**	**115**		ug/L			6222	5998	1	KED
|	**Cd**	**111**	**26.090**	ug/L	0.416	1	2	5670	1	KED
⌊	**Cd**	**114**	**26.836**	ug/L	0.291	1	6	14171	0	KED
⌈>	**Tb**	**159**		ug/L			498579	497269	5	Standard
⌊	**Pb**	**208**	**49.898**	ug/L	1.924	3	109	2059278	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:00:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	47045	1	Standard
	Cl	37		ug/L			3416101	3385921	2	Standard
>	Sc	45		ug/L			429622	685268	1	Standard
	Cr	52	17.143	ug/L	0.182	1	16425	494085	0	Standard
	Cr	53	17.234	ug/L	0.104	0	102	55042	1	Standard
	Mn	55	190.275	ug/L	4.153	2	567	7522792	2	Standard
>	Ge	72		ug/L			22652	21537	1	KED
	Ni	60	22.392	ug/L	0.505	2	20	21558	0	KED
	Ni	62	22.420	ug/L	1.356	6	7	3542	4	KED
	Cu	63	26.419	ug/L	0.610	2	30	75777	0	KED
	Cu	65	26.161	ug/L	0.468	1	24	37070	1	KED
	Zn	66	51.423	ug/L	1.774	3	40	19591	2	KED
	Zn	67	58.095	ug/L	4.014	6	3	3775	5	KED
	As	75	2.599	ug/L	0.149	5	5	504	4	KED
	Y	89		ug/L			208501	614899	1	Standard
	Kr	83		ug/L			52	228	3	Standard
>	In-1	115		ug/L			6222	6106	1	KED
	Cd	111	0.075	ug/L	0.024	32	2	18	28	KED
	Cd	114	0.070	ug/L	0.021	30	6	44	26	KED
>	Tb	159		ug/L			498579	527436	2	Standard
	Pb	208	4.237	ug/L	0.141	3	109	185694	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-19
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:04:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	51540	0	Standard
	Cl	37		ug/L			3416101	3417436	1	Standard
>	Sc	45		ug/L			429622	564025	1	Standard
	Cr	52	14.222	ug/L	0.329	2	16425	341054	1	Standard
	Cr	53	14.421	ug/L	0.326	2	102	37926	1	Standard
	Mn	55	216.875	ug/L	2.984	1	567	7057307	1	Standard
>	Ge	72		ug/L			22652	21188	3	KED
	Ni	60	13.438	ug/L	0.171	1	20	12735	2	KED
	Ni	62	13.466	ug/L	0.205	1	7	2097	4	KED
	Cu	63	44.581	ug/L	1.445	3	30	125710	1	KED
	Cu	65	44.501	ug/L	1.227	2	24	61985	1	KED
	Zn	66	131.471	ug/L	2.034	1	40	49247	5	KED
	Zn	67	124.551	ug/L	3.138	2	3	7958	1	KED
	As	75	3.635	ug/L	0.097	2	5	691	4	KED
	Y	89		ug/L			208501	460766	1	Standard
	Kr	83		ug/L			52	131	8	Standard
>	In-1	115		ug/L			6222	5719	2	KED
	Cd	111	0.290	ug/L	0.013	4	2	62	4	KED
	Cd	114	0.264	ug/L	0.028	10	6	139	12	KED
>	Tb	159		ug/L			498579	516331	2	Standard
	Pb	208	18.472	ug/L	0.421	2	109	792412	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-20
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:08:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	48665	1	Standard
	Cl	37		ug/L			3416101	3418241	0	Standard
>	Sc	45		ug/L			429622	629297	1	Standard
	Cr	52	16.157	ug/L	0.154	0	16425	428984	0	Standard
	Cr	53	16.497	ug/L	0.022	0	102	48391	1	Standard
	Mn	55	304.586	ug/L	3.680	1	567	11057174	1	Standard
>	Ge	72		ug/L			22652	21670	2	KED
	Ni	60	18.043	ug/L	0.081	0	20	17486	2	KED
	Ni	62	18.602	ug/L	0.486	2	7	2959	2	KED
	Cu	63	41.576	ug/L	0.481	1	30	119983	1	KED
	Cu	65	41.644	ug/L	0.583	1	24	59354	1	KED
	Zn	66	139.453	ug/L	3.679	2	40	53387	0	KED
	Zn	67	136.309	ug/L	2.978	2	3	8911	1	KED
	As	75	4.190	ug/L	0.060	1	5	814	1	KED
	Y	89		ug/L			208501	559884	2	Standard
	Kr	83		ug/L			52	187	4	Standard
>	In-1	115		ug/L			6222	5842	3	KED
	Cd	111	0.345	ug/L	0.071	20	2	74	19	KED
	Cd	114	0.248	ug/L	0.052	20	6	134	21	KED
>	Tb	159		ug/L			498579	523748	4	Standard
	Pb	208	27.593	ug/L	1.163	4	109	1199697	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-21
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:13:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49977	2	Standard
	Cl	37		ug/L			3416101	3370637	0	Standard
>	Sc	45		ug/L			429622	598748	1	Standard
	Cr	52	15.427	ug/L	0.163	1	16425	390813	2	Standard
	Cr	53	15.516	ug/L	0.049	0	102	43314	1	Standard
	Mn	55	292.092	ug/L	2.013	0	567	10089737	1	Standard
>	Ge	72		ug/L			22652	21885	2	KED
	Ni	60	18.065	ug/L	0.325	1	20	17678	1	KED
	Ni	62	17.753	ug/L	0.483	2	7	2852	1	KED
	Cu	63	29.005	ug/L	0.782	2	30	84544	2	KED
	Cu	65	28.871	ug/L	0.678	2	24	41558	0	KED
	Zn	66	127.421	ug/L	3.498	2	40	49268	1	KED
	Zn	67	122.468	ug/L	4.460	3	3	8083	1	KED
	As	75	3.292	ug/L	0.078	2	5	647	4	KED
	Y	89		ug/L			208501	520524	4	Standard
	Kr	83		ug/L			52	174	19	Standard
>	In-1	115		ug/L			6222	6022	2	KED
	Cd	111	0.200	ug/L	0.026	12	2	45	9	KED
	Cd	114	0.187	ug/L	0.028	15	6	105	13	KED
>	Tb	159		ug/L			498579	515472	2	Standard
	Pb	208	18.841	ug/L	0.627	3	109	806722	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:20:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30212	2	Standard
	Cl	**37**		ug/L			3416101	3551990	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	419381	2	Standard
|	**Cr**	**52**	**50.352**	ug/L	0.880	1	16425	856958	1	Standard
|	**Cr**	**53**	**50.200**	ug/L	0.153	0	102	97928	1	Standard
⌊	**Mn**	**55**	**50.613**	ug/L	0.637	1	567	1224861	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21189	1	KED
|	**Ni**	**60**	**50.310**	ug/L	1.260	2	20	47635	1	KED
|	**Ni**	**62**	**49.288**	ug/L	0.553	1	7	7656	1	KED
|	**Cu**	**63**	**49.978**	ug/L	0.477	0	30	141036	0	KED
|	**Cu**	**65**	**49.692**	ug/L	0.477	0	24	69255	0	KED
|	**Zn**	**66**	**49.994**	ug/L	1.216	2	40	18748	3	KED
|	**Zn**	**67**	**49.241**	ug/L	0.933	1	3	3150	1	KED
⌊	**As**	**75**	**49.268**	ug/L	0.469	0	5	9307	0	KED
	Y	**89**		ug/L			208501	204002	1	Standard
	Kr	**83**		ug/L			52	70	9	Standard
⌈>	**In-1**	**115**		ug/L			6222	5743	1	KED
|	**Cd**	**111**	**50.781**	ug/L	1.134	2	2	10566	1	KED
⌊	**Cd**	**114**	**51.216**	ug/L	1.216	2	6	25889	1	KED
⌈>	**Tb**	**159**		ug/L			498579	487080	4	Standard
⌊	**Pb**	**208**	**51.990**	ug/L	2.142	4	109	2101826	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:27:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30670	0	Standard
	Cl	**37**		ug/L			3416101	3321596	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	432054	3	Standard
⎢	**Cr**	**52**	**-0.008**	ug/L	0.016	207	16425	16384	3	Standard
⎢	**Cr**	**53**	**-0.006**	ug/L	0.002	29	102	91	1	Standard
⎣	**Mn**	**55**	**0.001**	ug/L	0.002	180	567	594	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	21902	2	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.005	300	20	17	26	KED
⎢	**Ni**	**62**	**-0.030**	ug/L	0.007	24	7	2	43	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.005	408	30	33	43	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.002	57	24	17	19	KED
⎢	**Zn**	**66**	**-0.018**	ug/L	0.017	96	40	32	17	KED
⎢	**Zn**	**67**	**0.040**	ug/L	0.091	227	3	6	96	KED
⎣	**As**	**75**	**0.001**	ug/L	0.007	626	5	5	20	KED
	Y	**89**		ug/L			208501	205788	1	Standard
	Kr	**83**		ug/L			52	50	11	Standard
⎡>	**In-1**	**115**		ug/L			6222	6189	2	KED
⎢	**Cd**	**111**	**0.000**	ug/L	0.003	3125	2	2	24	KED
⎣	**Cd**	**114**	**-0.011**	ug/L	0.002	20	6	1	106	KED
⎡>	**Tb**	**159**		ug/L			498579	481385	5	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	70	109	132	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0516-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 23:31:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	126290	2	Standard
	Cl	**37**		ug/L			3416101	3454727	5	Standard
>	**Sc**	**45**		ug/L			429622	418378	9	Standard
	Cr	**52**	**75.268**	ug/L	3.264	4	16425	1266804	5	Standard
	Cr	**53**	**74.725**	ug/L	3.083	4	102	144995	5	Standard
	Mn	**55**	**14.440**	ug/L	0.534	3	567	348285	6	Standard
>	**Ge**	**72**		ug/L			22652	21749	0	KED
	Ni	**60**	**1.755**	ug/L	0.054	3	20	1724	2	KED
	Ni	**62**	**1.664**	ug/L	0.111	6	7	272	6	KED
	Cu	**63**	**3.591**	ug/L	0.047	1	30	10428	1	KED
	Cu	**65**	**3.646**	ug/L	0.108	2	24	5238	3	KED
	Zn	**66**	**281.671**	ug/L	1.980	0	40	108232	0	KED
	Zn	**67**	**255.077**	ug/L	1.242	0	3	16737	0	KED
	As	**75**	**0.097**	ug/L	0.016	16	5	24	12	KED
	Y	**89**		ug/L			208501	205690	8	Standard
	Kr	**83**		ug/L			52	57	12	Standard
>	**In-1**	**115**		ug/L			6222	6083	1	KED
	Cd	**111**	**1.673**	ug/L	0.043	2	2	370	1	KED
	Cd	**114**	**1.728**	ug/L	0.037	2	6	931	2	KED
>	**Tb**	**159**		ug/L			498579	480759	10	Standard
	Pb	**208**	**0.293**	ug/L	0.022	7	109	11740	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:36:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31900	2	Standard
	Cl	**37**		ug/L			3416101	3492233	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	409879	1	Standard
|	**Cr**	**52**	**0.053**	ug/L	0.038	71	16425	16528	2	Standard
|	**Cr**	**53**	**0.005**	ug/L	0.004	69	102	107	8	Standard
⌊	**Mn**	**55**	**0.007**	ug/L	0.001	11	567	697	4	Standard
⌈>	**Ge**	**72**		ug/L			22652	20922	2	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.001	16	20	10	10	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.006	141	7	6	17	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	29	30	38	10	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.003	57	24	14	32	KED
|	**Zn**	**66**	**0.017**	ug/L	0.016	95	40	43	15	KED
|	**Zn**	**67**	**0.065**	ug/L	0.033	50	3	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.003	408	5	5	9	KED
	Y	**89**		ug/L			208501	203292	1	Standard
	Kr	**83**		ug/L			52	36	7	Standard
⌈>	**In-1**	**115**		ug/L			6222	5742	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.005	228	2	2	43	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.002	26	6	2	42	KED
⌈>	**Tb**	**159**		ug/L			498579	472001	3	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	23	109	206	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 23:40:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32649	1	Standard
	Cl	**37**		ug/L			3416101	3253034	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	425265	2	Standard
|	**Cr**	**52**	**1.020**	ug/L	0.057	5	16425	33527	0	Standard
|	**Cr**	**53**	**1.047**	ug/L	0.050	4	102	2168	2	Standard
⌊	**Mn**	**55**	**16.483**	ug/L	0.400	2	567	404781	0	Standard
⌈>	**Ge**	**72**		ug/L			22652	21135	2	KED
|	**Ni**	**60**	**1.249**	ug/L	0.076	6	20	1198	6	KED
|	**Ni**	**62**	**1.369**	ug/L	0.016	1	7	219	3	KED
|	**Cu**	**63**	**2.217**	ug/L	0.146	6	30	6266	5	KED
|	**Cu**	**65**	**2.332**	ug/L	0.053	2	24	3263	2	KED
|	**Zn**	**66**	**8.665**	ug/L	0.286	3	40	3270	1	KED
|	**Zn**	**67**	**9.194**	ug/L	0.677	7	3	589	5	KED
⌊	**As**	**75**	**0.351**	ug/L	0.048	13	5	71	12	KED
	Y	**89**		ug/L			208501	227322	2	Standard
	Kr	**83**		ug/L			52	49	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5764	2	KED
|	**Cd**	**111**	**0.020**	ug/L	0.013	65	2	6	45	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.005	65	6	9	21	KED
⌈>	**Tb**	**159**		ug/L			498579	479840	4	Standard
⌊	**Pb**	**208**	**1.033**	ug/L	0.041	3	109	41262	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-20
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:44:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35033	0	Standard
	Cl	**37**		ug/L			3416101	3290985	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460960	3	Standard
|	**Cr**	**52**	**4.655**	ug/L	0.147	3	16425	103020	1	Standard
|	**Cr**	**53**	**4.734**	ug/L	0.129	2	102	10245	2	Standard
⌊	**Mn**	**55**	**73.655**	ug/L	1.474	2	567	1958308	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21056	0	KED
|	**Ni**	**60**	**6.295**	ug/L	0.208	3	20	5940	3	KED
|	**Ni**	**62**	**6.385**	ug/L	0.212	3	7	991	3	KED
|	**Cu**	**63**	**10.561**	ug/L	0.269	2	30	29640	2	KED
|	**Cu**	**65**	**10.862**	ug/L	0.403	3	24	15061	3	KED
|	**Zn**	**66**	**41.147**	ug/L	0.658	1	40	15339	1	KED
|	**Zn**	**67**	**39.417**	ug/L	0.431	1	3	2506	0	KED
⌊	**As**	**75**	**1.738**	ug/L	0.078	4	5	331	4	KED
	Y	**89**		ug/L			208501	316930	2	Standard
	Kr	**83**		ug/L			52	67	11	Standard
⌈>	**In-1**	**115**		ug/L			6222	5954	1	KED
|	**Cd**	**111**	**0.076**	ug/L	0.008	10	2	18	7	KED
⌊	**Cd**	**114**	**0.036**	ug/L	0.018	49	6	25	37	KED
⌈>	**Tb**	**159**		ug/L			498579	497293	3	Standard
⌊	**Pb**	**208**	**4.808**	ug/L	0.170	3	109	198630	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:49:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35797	1	Standard
	Cl	**37**		ug/L			3416101	3347294	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	459784	2	Standard
|	**Cr**	**52**	**4.687**	ug/L	0.074	1	16425	103402	1	Standard
|	**Cr**	**53**	**4.694**	ug/L	0.242	5	102	10129	2	Standard
⌊	**Mn**	**55**	**67.591**	ug/L	1.759	2	567	1792809	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	20840	1	KED
|	**Ni**	**60**	**5.902**	ug/L	0.233	3	20	5511	2	KED
|	**Ni**	**62**	**5.724**	ug/L	0.104	1	7	880	0	KED
|	**Cu**	**63**	**9.320**	ug/L	0.277	2	30	25885	1	KED
|	**Cu**	**65**	**9.390**	ug/L	0.165	1	24	12890	2	KED
|	**Zn**	**66**	**34.822**	ug/L	0.615	1	40	12851	0	KED
|	**Zn**	**67**	**33.653**	ug/L	1.167	3	3	2118	2	KED
⌊	**As**	**75**	**1.178**	ug/L	0.060	5	5	224	3	KED
	Y	**89**		ug/L			208501	306749	1	Standard
	Kr	**83**		ug/L			52	53	8	Standard
⌈>	**In-1**	**115**		ug/L			6222	5876	1	KED
|	**Cd**	**111**	**0.060**	ug/L	0.030	49	2	14	43	KED
⌊	**Cd**	**114**	**0.048**	ug/L	0.003	5	6	31	3	KED
⌈>	**Tb**	**159**		ug/L			498579	496358	3	Standard
⌊	**Pb**	**208**	**4.089**	ug/L	0.201	4	109	168581	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:53:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32912	0	Standard
	Cl	**37**		ug/L			3416101	3334208	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460075	0	Standard
|	**Cr**	**52**	**14.502**	ug/L	0.227	1	16425	283308	0	Standard
|	**Cr**	**53**	**14.394**	ug/L	0.123	0	102	30880	0	Standard
⌊	**Mn**	**55**	**85.617**	ug/L	0.808	0	567	2272998	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22261	0	KED
|	**Ni**	**60**	**17.596**	ug/L	0.226	1	20	17518	1	KED
|	**Ni**	**62**	**17.788**	ug/L	0.481	2	7	2907	2	KED
|	**Cu**	**63**	**23.105**	ug/L	0.450	1	30	68515	1	KED
|	**Cu**	**65**	**23.387**	ug/L	0.390	1	24	34259	1	KED
|	**Zn**	**66**	**73.872**	ug/L	0.615	0	40	29080	0	KED
|	**Zn**	**67**	**68.976**	ug/L	2.399	3	3	4634	2	KED
⌊	**As**	**75**	**10.929**	ug/L	0.298	2	5	2173	2	KED
	Y	**89**		ug/L			208501	321571	0	Standard
	Kr	**83**		ug/L			52	80	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6050	2	KED
|	**Cd**	**111**	**10.585**	ug/L	0.306	2	2	2321	0	KED
⌊	**Cd**	**114**	**10.567**	ug/L	0.408	3	6	5630	2	KED
⌈>	**Tb**	**159**		ug/L			498579	489777	2	Standard
⌊	**Pb**	**208**	**16.220**	ug/L	0.252	1	109	660173	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:58:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	36814	1	Standard
	Cl	37		ug/L			3416101	3384829	2	Standard
>	Sc	45		ug/L			429622	485303	2	Standard
	Cr	52	15.001	ug/L	0.399	2	16425	308396	0	Standard
	Cr	53	15.038	ug/L	0.548	3	102	34013	1	Standard
	Mn	55	85.300	ug/L	2.050	2	567	2387898	0	Standard
>	Ge	72		ug/L			22652	20951	1	KED
	Ni	60	17.724	ug/L	0.140	0	20	16607	1	KED
	Ni	62	17.576	ug/L	0.488	2	7	2704	3	KED
	Cu	63	21.632	ug/L	0.349	1	30	60372	1	KED
	Cu	65	21.864	ug/L	0.938	4	24	30129	2	KED
	Zn	66	93.011	ug/L	0.536	0	40	34452	1	KED
	Zn	67	87.834	ug/L	1.832	2	3	5552	0	KED
	As	75	10.987	ug/L	0.175	1	5	2056	2	KED
	Y	89		ug/L			208501	341865	2	Standard
	Kr	83		ug/L			52	95	14	Standard
>	In-1	115		ug/L			6222	5681	1	KED
	Cd	111	10.926	ug/L	0.240	2	2	2250	1	KED
	Cd	114	10.884	ug/L	0.257	2	6	5447	1	KED
>	Tb	159		ug/L			498579	513014	3	Standard
	Pb	208	15.431	ug/L	0.552	3	109	657413	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:02:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	34964	3	Standard
	Cl	**37**		ug/L			3416101	3410599	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	471137	4	Standard
|	**Cr**	**52**	**28.571**	ug/L	0.438	1	16425	553986	3	Standard
|	**Cr**	**53**	**28.824**	ug/L	0.722	2	102	63172	2	Standard
⌊	**Mn**	**55**	**98.487**	ug/L	1.472	1	567	2676206	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	22225	0	KED
|	**Ni**	**60**	**33.168**	ug/L	0.412	1	20	32952	1	KED
|	**Ni**	**62**	**32.724**	ug/L	0.076	0	7	5334	1	KED
|	**Cu**	**63**	**37.813**	ug/L	0.889	2	30	111950	2	KED
|	**Cu**	**65**	**37.570**	ug/L	0.919	2	24	54941	3	KED
|	**Zn**	**66**	**127.206**	ug/L	0.351	0	40	49970	1	KED
|	**Zn**	**67**	**116.589**	ug/L	2.888	2	3	7819	2	KED
⌊	**As**	**75**	**27.269**	ug/L	0.153	0	5	5406	0	KED
	Y	**89**		ug/L			208501	328580	2	Standard
	Kr	**83**		ug/L			52	61	34	Standard
⌈>	**In-1**	**115**		ug/L			6222	6056	0	KED
|	**Cd**	**111**	**26.468**	ug/L	0.294	1	2	5809	1	KED
⌊	**Cd**	**114**	**26.604**	ug/L	0.576	2	6	14186	2	KED
⌈>	**Tb**	**159**		ug/L			498579	500325	5	Standard
⌊	**Pb**	**208**	**32.342**	ug/L	1.456	4	109	1342547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRM2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:06:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35447	1	Standard
	Cl	**37**		ug/L			3416101	3348515	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	447131	1	Standard
|	**Cr**	**52**	**49.665**	ug/L	0.304	0	16425	901623	1	Standard
|	**Cr**	**53**	**50.854**	ug/L	0.480	0	102	105764	0	Standard
⌊	**Mn**	**55**	**121.689**	ug/L	1.435	1	567	3139587	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21066	1	KED
|	**Ni**	**60**	**80.835**	ug/L	2.018	2	20	76082	1	KED
|	**Ni**	**62**	**79.740**	ug/L	1.739	2	7	12310	2	KED
|	**Cu**	**63**	**33.104**	ug/L	0.818	2	30	92880	2	KED
|	**Cu**	**65**	**32.435**	ug/L	0.364	1	24	44951	1	KED
|	**Zn**	**66**	**37.528**	ug/L	0.917	2	40	13996	1	KED
|	**Zn**	**67**	**40.835**	ug/L	0.481	1	3	2598	2	KED
⌊	**As**	**75**	**19.282**	ug/L	0.217	1	5	3625	1	KED
	Y	**89**		ug/L			208501	277281	0	Standard
	Kr	**83**		ug/L			52	57	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5979	0	KED
|	**Cd**	**111**	**36.909**	ug/L	0.575	1	2	7996	1	KED
⌊	**Cd**	**114**	**37.227**	ug/L	0.378	1	6	19594	0	KED
⌈>	**Tb**	**159**		ug/L			498579	510486	3	Standard
⌊	**Pb**	**208**	**62.318**	ug/L	2.363	3	109	2641194	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:11:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	33038	2	Standard
	Cl	**37**		ug/L			3416101	3265330	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	418822	1	Standard
⎢	**Cr**	**52**	**-0.007**	ug/L	0.019	282	16425	15899	2	Standard
⎢	**Cr**	**53**	**-0.002**	ug/L	0.003	170	102	96	4	Standard
⎣	**Mn**	**55**	**0.008**	ug/L	0.001	12	567	740	4	Standard
⎡>	**Ge**	**72**		ug/L			22652	21130	3	KED
⎢	**Ni**	**60**	**-0.011**	ug/L	0.003	29	20	8	35	KED
⎢	**Ni**	**62**	**-0.025**	ug/L	0.007	26	7	3	34	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.003	27	30	53	11	KED
⎢	**Cu**	**65**	**0.006**	ug/L	0.004	70	24	30	21	KED
⎢	**Zn**	**66**	**0.020**	ug/L	0.019	95	40	45	12	KED
⎢	**Zn**	**67**	**0.015**	ug/L	0.077	501	3	4	107	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.014	1141	5	5	48	KED
	Y	**89**		ug/L			208501	206765	1	Standard
	Kr	**83**		ug/L			52	49	19	Standard
⎡>	**In-1**	**115**		ug/L			6222	5914	1	KED
⎢	**Cd**	**111**	**-0.001**	ug/L	0.005	507	2	1	50	KED
⎣	**Cd**	**114**	**-0.006**	ug/L	0.004	70	6	3	57	KED
⎡>	**Tb**	**159**		ug/L			498579	474330	3	Standard
⎣	**Pb**	**208**	**0.006**	ug/L	0.001	13	109	322	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:15:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31549	0	Standard
	Cl	**37**		ug/L			3416101	3523562	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	415244	3	Standard
|	**Cr**	**52**	**50.902**	ug/L	0.792	1	16425	857459	2	Standard
|	**Cr**	**53**	**50.076**	ug/L	1.593	3	102	96651	1	Standard
⌊	**Mn**	**55**	**51.084**	ug/L	0.995	1	567	1223740	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21010	2	KED
|	**Ni**	**60**	**50.376**	ug/L	1.711	3	20	47281	2	KED
|	**Ni**	**62**	**51.105**	ug/L	2.184	4	7	7866	2	KED
|	**Cu**	**63**	**49.628**	ug/L	1.217	2	30	138831	1	KED
|	**Cu**	**65**	**49.448**	ug/L	0.855	1	24	68323	1	KED
|	**Zn**	**66**	**51.617**	ug/L	1.455	2	40	19182	1	KED
|	**Zn**	**67**	**49.608**	ug/L	0.941	1	3	3146	1	KED
⌊	**As**	**75**	**49.810**	ug/L	1.132	2	5	9328	1	KED
	Y	**89**		ug/L			208501	208760	2	Standard
	Kr	**83**		ug/L			52	55	24	Standard
⌈>	**In-1**	**115**		ug/L			6222	5663	0	KED
|	**Cd**	**111**	**50.579**	ug/L	1.079	2	2	10380	2	KED
⌊	**Cd**	**114**	**51.126**	ug/L	0.563	1	6	25490	1	KED
⌈>	**Tb**	**159**		ug/L			498579	480987	4	Standard
⌊	**Pb**	**208**	**52.441**	ug/L	1.187	2	109	2094890	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:22:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29608	2	Standard
	Cl	**37**		ug/L			3416101	3285009	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	397909	0	Standard
|	**Cr**	**52**	**-0.002**	ug/L	0.018	788	16425	15176	1	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.003	36	102	80	6	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	126	567	501	6	Standard
⌈>	**Ge**	**72**		ug/L			22652	20223	3	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.001	13	20	10	10	KED
|	**Ni**	**62**	**-0.012**	ug/L	0.019	155	7	5	57	KED
|	**Cu**	**63**	**0.000**	ug/L	0.003	1022	30	27	27	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.007	172	24	16	53	KED
|	**Zn**	**66**	**-0.023**	ug/L	0.010	41	40	27	10	KED
|	**Zn**	**67**	**0.018**	ug/L	0.021	117	3	4	24	KED
⌊	**As**	**75**	**0.002**	ug/L	0.020	815	5	5	62	KED
	Y	**89**		ug/L			208501	194885	0	Standard
	Kr	**83**		ug/L			52	38	15	Standard
⌈>	**In-1**	**115**		ug/L			6222	5602	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.007	265	2	2	57	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.002	22	6	1	86	KED
⌈>	**Tb**	**159**		ug/L			498579	452147	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	111	109	111	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:26:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	34922	4	Standard
	Cl	**37**		ug/L			3416101	3348788	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	449099	0	Standard
|	**Cr**	**52**	**1.330**	ug/L	0.039	2	16425	40962	2	Standard
|	**Cr**	**53**	**1.358**	ug/L	0.030	2	102	2940	1	Standard
⌊	**Mn**	**55**	**29.261**	ug/L	0.539	1	567	758777	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	20964	1	KED
|	**Ni**	**60**	**1.621**	ug/L	0.083	5	20	1536	4	KED
|	**Ni**	**62**	**1.623**	ug/L	0.156	9	7	256	10	KED
|	**Cu**	**63**	**2.921**	ug/L	0.066	2	30	8182	1	KED
|	**Cu**	**65**	**3.025**	ug/L	0.092	3	24	4192	2	KED
|	**Zn**	**66**	**12.272**	ug/L	0.389	3	40	4581	3	KED
|	**Zn**	**67**	**12.200**	ug/L	1.184	9	3	774	8	KED
⌊	**As**	**75**	**0.295**	ug/L	0.013	4	5	60	4	KED
	Y	**89**		ug/L			208501	243670	1	Standard
	Kr	**83**		ug/L			52	61	6	Standard
⌈>	**In-1**	**115**		ug/L			6222	5749	3	KED
|	**Cd**	**111**	**0.030**	ug/L	0.013	44	2	8	35	KED
⌊	**Cd**	**114**	**0.035**	ug/L	0.006	16	6	23	12	KED
⌈>	**Tb**	**159**		ug/L			498579	500269	4	Standard
⌊	**Pb**	**208**	**1.550**	ug/L	0.043	2	109	64498	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22J0097-31
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:31:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39535	2	Standard
	Cl	**37**		ug/L			3416101	3356703	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	479478	1	Standard
|	**Cr**	**52**	**5.988**	ug/L	0.067	1	16425	132683	1	Standard
|	**Cr**	**53**	**6.005**	ug/L	0.103	1	102	13494	2	Standard
⌊	**Mn**	**55**	**126.181**	ug/L	2.053	1	567	3491219	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	20909	2	KED
|	**Ni**	**60**	**8.197**	ug/L	0.089	1	20	7674	1	KED
|	**Ni**	**62**	**8.210**	ug/L	0.344	4	7	1263	1	KED
|	**Cu**	**63**	**14.457**	ug/L	0.350	2	30	40263	0	KED
|	**Cu**	**65**	**14.441**	ug/L	0.055	0	24	19879	2	KED
|	**Zn**	**66**	**59.092**	ug/L	2.281	3	40	21843	1	KED
|	**Zn**	**67**	**55.515**	ug/L	1.719	3	3	3504	3	KED
⌊	**As**	**75**	**1.308**	ug/L	0.060	4	5	249	4	KED
	Y	**89**		ug/L			208501	322274	2	Standard
	Kr	**83**		ug/L			52	73	10	Standard
⌈>	**In-1**	**115**		ug/L			6222	5662	1	KED
|	**Cd**	**111**	**0.148**	ug/L	0.014	9	2	32	10	KED
⌊	**Cd**	**114**	**0.138**	ug/L	0.041	29	6	74	25	KED
⌈>	**Tb**	**159**		ug/L			498579	494083	4	Standard
⌊	**Pb**	**208**	**7.331**	ug/L	0.314	4	109	300671	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:35:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	41675	2	Standard
	Cl	**37**		ug/L			3416101	3408444	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	483118	3	Standard
|	**Cr**	**52**	**6.064**	ug/L	0.060	0	16425	135147	2	Standard
|	**Cr**	**53**	**6.182**	ug/L	0.042	0	102	13992	3	Standard
⌊	**Mn**	**55**	**134.781**	ug/L	1.835	1	567	3756019	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21760	0	KED
|	**Ni**	**60**	**7.953**	ug/L	0.084	1	20	7751	1	KED
|	**Ni**	**62**	**7.725**	ug/L	0.349	4	7	1238	4	KED
|	**Cu**	**63**	**14.760**	ug/L	0.041	0	30	42799	0	KED
|	**Cu**	**65**	**15.084**	ug/L	0.311	2	24	21608	2	KED
|	**Zn**	**66**	**60.944**	ug/L	1.187	1	40	23461	2	KED
|	**Zn**	**67**	**59.377**	ug/L	1.213	2	3	3900	2	KED
⌊	**As**	**75**	**1.547**	ug/L	0.061	3	5	305	4	KED
	Y	**89**		ug/L			208501	332178	3	Standard
	Kr	**83**		ug/L			52	74	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6094	2	KED
|	**Cd**	**111**	**0.128**	ug/L	0.010	7	2	30	9	KED
⌊	**Cd**	**114**	**0.127**	ug/L	0.011	8	6	75	5	KED
⌈>	**Tb**	**159**		ug/L			498579	502605	2	Standard
⌊	**Pb**	**208**	**7.113**	ug/L	0.179	2	109	297064	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:40:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	40716	1	Standard
	Cl	**37**		ug/L			3416101	3511424	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	504591	1	Standard
|	**Cr**	**52**	**16.094**	ug/L	0.104	0	16425	342721	1	Standard
|	**Cr**	**53**	**16.277**	ug/L	0.403	2	102	38275	1	Standard
⌊	**Mn**	**55**	**135.860**	ug/L	2.804	2	567	3954824	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22057	0	KED
|	**Ni**	**60**	**18.688**	ug/L	0.479	2	20	18433	2	KED
|	**Ni**	**62**	**18.273**	ug/L	0.076	0	7	2959	0	KED
|	**Cu**	**63**	**24.922**	ug/L	0.315	1	30	73229	1	KED
|	**Cu**	**65**	**25.258**	ug/L	0.179	0	24	36659	0	KED
|	**Zn**	**66**	**90.053**	ug/L	0.819	0	40	35118	0	KED
|	**Zn**	**67**	**83.877**	ug/L	2.281	2	3	5583	2	KED
⌊	**As**	**75**	**11.217**	ug/L	0.121	1	5	2210	0	KED
	Y	**89**		ug/L			208501	349782	1	Standard
	Kr	**83**		ug/L			52	86	5	Standard
⌈>	**In-1**	**115**		ug/L			6222	5892	0	KED
|	**Cd**	**111**	**10.592**	ug/L	0.146	1	2	2263	0	KED
⌊	**Cd**	**114**	**10.765**	ug/L	0.086	0	6	5588	1	KED
⌈>	**Tb**	**159**		ug/L			498579	515423	4	Standard
⌊	**Pb**	**208**	**17.577**	ug/L	0.477	2	109	752437	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:44:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39126	3	Standard
	Cl	**37**		ug/L			3416101	3486444	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	482324	2	Standard
|	**Cr**	**52**	**15.556**	ug/L	0.284	1	16425	317229	2	Standard
|	**Cr**	**53**	**15.536**	ug/L	0.343	2	102	34926	1	Standard
⌊	**Mn**	**55**	**134.850**	ug/L	1.275	0	567	3753412	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21584	3	KED
|	**Ni**	**60**	**18.719**	ug/L	1.065	5	20	18043	2	KED
|	**Ni**	**62**	**18.213**	ug/L	0.565	3	7	2884	1	KED
|	**Cu**	**63**	**23.531**	ug/L	1.141	4	30	67586	1	KED
|	**Cu**	**65**	**23.837**	ug/L	0.672	2	24	33833	0	KED
|	**Zn**	**66**	**86.113**	ug/L	1.343	1	40	32852	2	KED
|	**Zn**	**67**	**82.952**	ug/L	3.165	3	3	5399	0	KED
⌊	**As**	**75**	**10.761**	ug/L	0.444	4	5	2073	0	KED
	Y	**89**		ug/L			208501	330446	2	Standard
	Kr	**83**		ug/L			52	88	25	Standard
⌈>	**In-1**	**115**		ug/L			6222	5946	3	KED
|	**Cd**	**111**	**10.366**	ug/L	0.442	4	2	2232	0	KED
⌊	**Cd**	**114**	**10.383**	ug/L	0.401	3	6	5435	0	KED
⌈>	**Tb**	**159**		ug/L			498579	498626	5	Standard
⌊	**Pb**	**208**	**17.243**	ug/L	0.649	3	109	713675	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:48:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39631	1	Standard
	Cl	**37**		ug/L			3416101	3480784	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	475060	3	Standard
|	**Cr**	**52**	**29.015**	ug/L	0.275	0	16425	567116	2	Standard
|	**Cr**	**53**	**29.339**	ug/L	0.944	3	102	64838	0	Standard
⌊	**Mn**	**55**	**148.145**	ug/L	2.566	1	567	4059387	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21218	3	KED
|	**Ni**	**60**	**34.525**	ug/L	2.219	6	20	32700	3	KED
|	**Ni**	**62**	**33.620**	ug/L	2.261	6	7	5224	3	KED
|	**Cu**	**63**	**40.486**	ug/L	0.677	1	30	114374	2	KED
|	**Cu**	**65**	**40.412**	ug/L	1.213	3	24	56368	1	KED
|	**Zn**	**66**	**140.509**	ug/L	5.328	3	40	52641	0	KED
|	**Zn**	**67**	**127.382**	ug/L	4.135	3	3	8149	0	KED
⌊	**As**	**75**	**26.881**	ug/L	0.424	1	5	5086	2	KED
	Y	**89**		ug/L			208501	323490	1	Standard
	Kr	**83**		ug/L			52	71	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5889	1	KED
|	**Cd**	**111**	**26.119**	ug/L	0.324	1	2	5574	1	KED
⌊	**Cd**	**114**	**25.931**	ug/L	0.461	1	6	13443	0	KED
⌈>	**Tb**	**159**		ug/L			498579	489147	3	Standard
⌊	**Pb**	**208**	**34.790**	ug/L	1.298	3	109	1413058	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:53:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	46647	1	Standard
Cl	37		ug/L			3416101	3405859	0	Standard
> Sc	45		ug/L			429622	594943	1	Standard
Cr	52	15.424	ug/L	0.093	0	16425	388245	1	Standard
Cr	53	15.517	ug/L	0.102	0	102	43042	1	Standard
Mn	55	249.521	ug/L	2.460	0	567	8564244	0	Standard
> Ge	72		ug/L			22652	21286	3	KED
Ni	60	18.460	ug/L	0.346	1	20	17569	2	KED
Ni	62	18.434	ug/L	0.495	2	7	2882	5	KED
Cu	63	24.700	ug/L	0.423	1	30	70032	3	KED
Cu	65	24.571	ug/L	0.725	2	24	34400	2	KED
Zn	66	101.763	ug/L	1.283	1	40	38282	2	KED
Zn	67	101.524	ug/L	3.165	3	3	6525	6	KED
As	75	2.650	ug/L	0.046	1	5	508	2	KED
Y	89		ug/L			208501	486889	1	Standard
Kr	83		ug/L			52	164	14	Standard
> In-1	115		ug/L			6222	5878	1	KED
Cd	111	0.097	ug/L	0.012	12	2	22	12	KED
Cd	114	0.139	ug/L	0.014	9	6	78	7	KED
> Tb	159		ug/L			498579	522849	3	Standard
Pb	208	16.496	ug/L	0.527	3	109	716386	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:57:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49707	3	Standard
	Cl	37		ug/L			3416101	3375822	2	Standard
>	Sc	45		ug/L			429622	631410	2	Standard
	Cr	52	16.254	ug/L	0.332	2	16425	432749	0	Standard
	Cr	53	16.355	ug/L	0.094	0	102	48134	2	Standard
	Mn	55	361.561	ug/L	7.156	1	567	13166082	1	Standard
>	Ge	72		ug/L			22652	21940	3	KED
	Ni	60	19.399	ug/L	1.182	6	20	19009	3	KED
	Ni	62	20.068	ug/L	0.721	3	7	3230	0	KED
	Cu	63	36.371	ug/L	1.353	3	30	106211	0	KED
	Cu	65	36.300	ug/L	1.330	3	24	52357	0	KED
	Zn	66	146.723	ug/L	5.535	3	40	56849	1	KED
	Zn	67	147.496	ug/L	5.946	4	3	9758	2	KED
	As	75	3.885	ug/L	0.174	4	5	764	1	KED
	Y	89		ug/L			208501	578449	1	Standard
	Kr	83		ug/L			52	203	4	Standard
>	In-1	115		ug/L			6222	5878	2	KED
	Cd	111	0.286	ug/L	0.048	16	2	62	13	KED
	Cd	114	0.254	ug/L	0.036	14	6	137	11	KED
>	Tb	159		ug/L			498579	511039	3	Standard
	Pb	208	24.627	ug/L	0.893	3	109	1044983	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:01:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46574	0	Standard
	Cl	37		ug/L			3416101	3379169	1	Standard
>	Sc	45		ug/L			429622	620291	2	Standard
	Cr	52	16.437	ug/L	0.163	0	16425	429814	2	Standard
	Cr	53	16.626	ug/L	0.381	2	102	48058	0	Standard
	Mn	55	310.654	ug/L	1.107	0	567	11117349	2	Standard
>	Ge	72		ug/L			22652	20581	1	KED
	Ni	60	18.856	ug/L	0.425	2	20	17354	1	KED
	Ni	62	18.790	ug/L	0.725	3	7	2839	3	KED
	Cu	63	42.128	ug/L	0.806	1	30	115476	1	KED
	Cu	65	43.333	ug/L	0.599	1	24	58666	0	KED
	Zn	66	139.400	ug/L	1.715	1	40	50705	1	KED
	Zn	67	136.427	ug/L	3.426	2	3	8471	1	KED
	As	75	4.058	ug/L	0.128	3	5	749	2	KED
	Y	89		ug/L			208501	559074	0	Standard
	Kr	83		ug/L			52	189	11	Standard
>	In-1	115		ug/L			6222	5607	3	KED
	Cd	111	0.260	ug/L	0.013	5	2	54	7	KED
	Cd	114	0.305	ug/L	0.045	14	6	156	12	KED
>	Tb	159		ug/L			498579	504952	3	Standard
	Pb	208	32.193	ug/L	1.171	3	109	1349703	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-31
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:06:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	48674	1	Standard
Cl	37		ug/L			3416101	3409450	1	Standard
> Sc	45		ug/L			429622	586958	3	Standard
Cr	52	14.692	ug/L	0.342	2	16425	365754	0	Standard
Cr	53	14.966	ug/L	0.221	1	102	40948	1	Standard
Mn	55	241.038	ug/L	5.247	2	567	8159092	1	Standard
> Ge	72		ug/L			22652	21147	1	KED
Ni	60	14.830	ug/L	0.291	1	20	14029	3	KED
Ni	62	15.157	ug/L	0.503	3	7	2355	4	KED
Cu	63	47.502	ug/L	0.903	1	30	133772	1	KED
Cu	65	47.669	ug/L	1.367	2	24	66297	2	KED
Zn	66	146.123	ug/L	4.631	3	40	54602	3	KED
Zn	67	139.180	ug/L	2.017	1	3	8881	2	KED
As	75	3.995	ug/L	0.157	3	5	758	4	KED
Y	89		ug/L			208501	485316	1	Standard
Kr	83		ug/L			52	172	15	Standard
> In-1	115		ug/L			6222	5895	2	KED
Cd	111	0.240	ug/L	0.017	7	2	53	4	KED
Cd	114	0.266	ug/L	0.009	3	6	144	2	KED
> Tb	159		ug/L			498579	512635	3	Standard
Pb	208	21.533	ug/L	0.668	3	109	916743	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:13:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30368	2	Standard
	Cl	**37**		ug/L			3416101	3570879	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	419169	3	Standard
|	**Cr**	**52**	**50.270**	ug/L	1.224	2	16425	854922	0	Standard
|	**Cr**	**53**	**50.770**	ug/L	1.391	2	102	98937	0	Standard
⌊	**Mn**	**55**	**50.084**	ug/L	1.680	3	567	1210902	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21180	2	KED
|	**Ni**	**60**	**51.753**	ug/L	1.036	2	20	48976	1	KED
|	**Ni**	**62**	**51.052**	ug/L	2.579	5	7	7929	6	KED
|	**Cu**	**63**	**50.944**	ug/L	0.989	1	30	143703	2	KED
|	**Cu**	**65**	**51.042**	ug/L	0.865	1	24	71101	1	KED
|	**Zn**	**66**	**51.780**	ug/L	1.563	3	40	19408	4	KED
|	**Zn**	**67**	**50.621**	ug/L	1.036	2	3	3238	4	KED
⌊	**As**	**75**	**50.796**	ug/L	1.125	2	5	9592	3	KED
	Y	**89**		ug/L			208501	202177	1	Standard
	Kr	**83**		ug/L			52	60	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	5749	3	KED
|	**Cd**	**111**	**50.886**	ug/L	1.092	2	2	10596	1	KED
⌊	**Cd**	**114**	**50.648**	ug/L	2.013	3	6	25613	0	KED
⌈>	**Tb**	**159**		ug/L			498579	476193	3	Standard
⌊	**Pb**	**208**	**53.265**	ug/L	1.057	1	109	2106985	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:20:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31339	3	Standard
	Cl	**37**		ug/L			3416101	3285110	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	418292	0	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.016	599	16425	16035	0	Standard
|	**Cr**	**53**	**-0.010**	ug/L	0.004	37	102	80	9	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	74	567	580	4	Standard
⌈>	**Ge**	**72**		ug/L			22652	21236	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.006	182	20	15	38	KED
|	**Ni**	**62**	**-0.017**	ug/L	0.018	106	7	4	65	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.001	16499	30	28	11	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	60	24	20	5	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.022	107	40	30	28	KED
|	**Zn**	**67**	**0.014**	ug/L	0.047	331	3	4	65	KED
⌊	**As**	**75**	**0.004**	ug/L	0.008	242	5	6	27	KED
	Y	**89**		ug/L			208501	206206	1	Standard
	Kr	**83**		ug/L			52	48	18	Standard
⌈>	**In-1**	**115**		ug/L			6222	6125	1	KED
|	**Cd**	**111**	**0.006**	ug/L	0.006	110	2	3	41	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.003	36	6	1	108	KED
⌈>	**Tb**	**159**		ug/L			498579	482087	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	80	109	119	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:24:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				31215	3	Standard
	Cl	**37**		ug/L				3324914	1	Standard
⎡>	**Sc**	**45**		ug/L				423672	1	Standard
⎢	**Cr**	**52**		ug/L				16311	0	Standard
⎢	**Cr**	**53**		ug/L				93	12	Standard
⎣	**Mn**	**55**		ug/L				527	6	Standard
⎡>	**Ge**	**72**		ug/L				20993	1	KED
⎢	**Ni**	**60**		ug/L				13	55	KED
⎢	**Ni**	**62**		ug/L				8	13	KED
⎢	**Cu**	**63**		ug/L				34	20	KED
⎢	**Cu**	**65**		ug/L				19	33	KED
⎢	**Zn**	**66**		ug/L				36	29	KED
⎢	**Zn**	**67**		ug/L				4	24	KED
⎣	**As**	**75**		ug/L				5	65	KED
	Y	**89**		ug/L				210865	1	Standard
	Kr	**83**		ug/L				43	25	Standard
⎡>	**In-1**	**115**		ug/L				5860	1	KED
⎢	**Cd**	**111**		ug/L				2	65	KED
⎣	**Cd**	**114**		ug/L				6	64	KED
⎡>	**Tb**	**159**		ug/L				480478	3	Standard
⎣	**Pb**	**208**		ug/L				115	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:29:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30410	1	Standard
	Cl	**37**		ug/L			3324914	3533632	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	415267	1	Standard
⎢	**Cr**	**52**	**50.339**	ug/L	0.745	1	16311	848570	2	Standard
⎢	**Cr**	**53**	**50.964**	ug/L	0.136	0	93	98439	2	Standard
⎣	**Mn**	**55**	**51.220**	ug/L	0.873	1	527	1227305	0	Standard
⎡>	**Ge**	**72**		ug/L			20993	20455	1	KED
⎢	**Ni**	**60**	**52.423**	ug/L	1.522	2	13	47904	1	KED
⎢	**Ni**	**62**	**50.669**	ug/L	0.498	0	8	7599	1	KED
⎢	**Cu**	**63**	**50.445**	ug/L	1.112	2	34	137412	1	KED
⎢	**Cu**	**65**	**52.156**	ug/L	0.999	1	19	70164	1	KED
⎢	**Zn**	**66**	**52.910**	ug/L	1.068	2	36	19145	0	KED
⎢	**Zn**	**67**	**50.709**	ug/L	3.410	6	4	3132	6	KED
⎣	**As**	**75**	**51.420**	ug/L	0.890	1	5	9376	0	KED
	Y	**89**		ug/L			210865	201534	0	Standard
	Kr	**83**		ug/L			43	54	27	Standard
⎡>	**In-1**	**115**		ug/L			5860	5660	2	KED
⎢	**Cd**	**111**	**51.014**	ug/L	1.517	2	2	10458	1	KED
⎣	**Cd**	**114**	**51.849**	ug/L	2.429	4	6	25813	2	KED
⎡>	**Tb**	**159**		ug/L			480478	479037	3	Standard
⎣	**Pb**	**208**	**53.159**	ug/L	1.813	3	115	2114474	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:36:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31165	2	Standard
	Cl	**37**		ug/L			3324914	3329784	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	426875	1	Standard
|	**Cr**	**52**	**-0.005**	ug/L	0.012	246	16311	16356	2	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.004	173	93	89	8	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.002	284	527	544	6	Standard
⌈>	**Ge**	**72**		ug/L			20993	20742	3	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.004	217	13	12	36	KED
|	**Ni**	**62**	**-0.037**	ug/L	0.007	17	8	2	43	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.006	299	34	28	52	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	200	19	17	29	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.025	715	36	34	24	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.002	19	4	3	0	KED
⌊	**As**	**75**	**0.000**	ug/L	0.006	2281	5	5	22	KED
	Y	**89**		ug/L			210865	208508	2	Standard
	Kr	**83**		ug/L			43	39	12	Standard
⌈>	**In-1**	**115**		ug/L			5860	5855	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.000	1	2	0		KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.004	58	6	2	90	KED
⌈>	**Tb**	**159**		ug/L			480478	486295	4	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	79	115	144	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-32
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:40:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	47430	1	Standard
	Cl	37		ug/L			3324914	3368037	1	Standard
>	Sc	45		ug/L			423672	601779	0	Standard
	Cr	52	16.522	ug/L	0.372	2	16311	419148	1	Standard
	Cr	53	16.646	ug/L	0.181	1	93	46679	0	Standard
	Mn	55	327.325	ug/L	7.378	2	527	11363166	1	Standard
>	Ge	72		ug/L			20993	21197	3	KED
	Ni	60	16.507	ug/L	0.507	3	13	15641	3	KED
	Ni	62	16.177	ug/L	0.634	3	8	2518	1	KED
	Cu	63	51.946	ug/L	1.767	3	34	146561	0	KED
	Cu	65	52.307	ug/L	2.288	4	19	72866	1	KED
	Zn	66	195.429	ug/L	7.415	3	36	73139	0	KED
	Zn	67	181.352	ug/L	1.323	0	4	11598	2	KED
	As	75	8.616	ug/L	0.464	5	5	1631	2	KED
	Y	89		ug/L			210865	532450	2	Standard
	Kr	83		ug/L			43	184	6	Standard
>	In-1	115		ug/L			5860	5959	1	KED
	Cd	111	0.320	ug/L	0.013	3	2	71	3	KED
	Cd	114	0.335	ug/L	0.034	10	6	182	11	KED
>	Tb	159		ug/L			480478	513542	3	Standard
	Pb	208	31.833	ug/L	1.256	3	115	1357412	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-33
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:45:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	46760	2	Standard
	Cl	37		ug/L			3324914	3370349	2	Standard
>	Sc	45		ug/L			423672	616916	7	Standard
	Cr	52	18.433	ug/L	0.905	4	16311	475752	4	Standard
	Cr	53	18.375	ug/L	0.837	4	93	52704	3	Standard
	Mn	55	328.329	ug/L	21.549	6	527	11648759	0	Standard
>	Ge	72		ug/L			20993	21133	1	KED
	Ni	60	17.603	ug/L	0.206	1	13	16631	0	KED
	Ni	62	17.939	ug/L	0.688	3	8	2784	2	KED
	Cu	63	39.902	ug/L	0.541	1	34	112315	1	KED
	Cu	65	41.396	ug/L	1.102	2	19	57544	2	KED
	Zn	66	129.299	ug/L	0.136	0	36	48294	1	KED
	Zn	67	135.131	ug/L	3.443	2	4	8617	2	KED
	As	75	4.152	ug/L	0.070	1	5	787	2	KED
	Y	89		ug/L			210865	562736	4	Standard
	Kr	83		ug/L			43	194	3	Standard
>	In-1	115		ug/L			5860	5645	2	KED
	Cd	111	0.253	ug/L	0.012	4	2	53	5	KED
	Cd	114	0.258	ug/L	0.028	10	6	134	11	KED
>	Tb	159		ug/L			480478	509158	8	Standard
	Pb	208	26.696	ug/L	1.971	7	115	1125158	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-34
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:49:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	53033	2	Standard
	Cl	37		ug/L			3324914	3435881	2	Standard
>	Sc	45		ug/L			423672	639136	2	Standard
	Cr	52	15.610	ug/L	0.268	1	16311	421929	1	Standard
	Cr	53	15.992	ug/L	0.334	2	93	47629	2	Standard
	Mn	55	366.184	ug/L	3.439	0	527	13500947	1	Standard
>	Ge	72		ug/L			20993	20959	1	KED
	Ni	60	19.547	ug/L	0.592	3	13	18311	1	KED
	Ni	62	18.803	ug/L	0.613	3	8	2894	2	KED
	Cu	63	33.498	ug/L	0.229	0	34	93520	0	KED
	Cu	65	34.601	ug/L	0.928	2	19	47696	1	KED
	Zn	66	135.814	ug/L	2.312	1	36	50306	2	KED
	Zn	67	129.502	ug/L	4.251	3	4	8192	4	KED
	As	75	3.670	ug/L	0.067	1	5	690	0	KED
	Y	89		ug/L			210865	586010	1	Standard
	Kr	83		ug/L			43	198	7	Standard
>	In-1	115		ug/L			5860	5826	3	KED
	Cd	111	0.237	ug/L	0.042	17	2	52	13	KED
	Cd	114	0.226	ug/L	0.040	17	6	122	16	KED
>	Tb	159		ug/L			480478	509025	4	Standard
	Pb	208	22.278	ug/L	0.970	4	115	941331	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-35
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:53:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	53495	1	Standard
Cl	37		ug/L			3324914	3442905	3	Standard
> Sc	45		ug/L			423672	649120	1	Standard
Cr	52	16.129	ug/L	0.165	1	16311	441961	0	Standard
Cr	53	16.446	ug/L	0.311	1	93	49740	0	Standard
Mn	55	352.484	ug/L	7.758	2	527	13197249	0	Standard
> Ge	72		ug/L			20993	21571	0	KED
Ni	60	19.398	ug/L	0.279	1	13	18708	1	KED
Ni	62	19.245	ug/L	1.152	5	8	3049	5	KED
Cu	63	33.397	ug/L	0.874	2	34	95960	2	KED
Cu	65	34.057	ug/L	0.866	2	19	48327	2	KED
Zn	66	119.194	ug/L	1.225	1	36	45446	1	KED
Zn	67	115.284	ug/L	4.312	3	4	7506	4	KED
As	75	3.665	ug/L	0.052	1	5	710	1	KED
Y	89		ug/L			210865	596151	1	Standard
Kr	83		ug/L			43	217	4	Standard
> In-1	115		ug/L			5860	5762	3	KED
Cd	111	0.243	ug/L	0.016	6	2	53	7	KED
Cd	114	0.257	ug/L	0.014	5	6	136	2	KED
> Tb	159		ug/L			480478	512855	1	Standard
Pb	208	23.389	ug/L	0.661	2	115	996579	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-36
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:58:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	51564	1	Standard
	Cl	37		ug/L			3324914	3466463	0	Standard
>	Sc	45		ug/L			423672	618270	1	Standard
	Cr	52	15.229	ug/L	0.337	2	16311	398784	1	Standard
	Cr	53	15.418	ug/L	0.190	1	93	44429	0	Standard
	Mn	55	235.788	ug/L	5.491	2	527	8409526	1	Standard
>	Ge	72		ug/L			20993	20958	0	KED
	Ni	60	22.558	ug/L	0.091	0	13	21134	0	KED
	Ni	62	21.853	ug/L	0.428	1	8	3362	1	KED
	Cu	63	27.442	ug/L	0.702	2	34	76617	2	KED
	Cu	65	28.159	ug/L	0.302	1	19	38827	0	KED
	Zn	66	103.456	ug/L	2.217	2	36	38326	1	KED
	Zn	67	102.675	ug/L	1.600	1	4	6494	1	KED
	As	75	2.435	ug/L	0.090	3	5	460	3	KED
	Y	89		ug/L			210865	490363	1	Standard
	Kr	83		ug/L			43	172	18	Standard
>	In-1	115		ug/L			5860	5712	2	KED
	Cd	111	0.113	ug/L	0.040	35	2	25	33	KED
	Cd	114	0.114	ug/L	0.007	6	6	63	7	KED
>	Tb	159		ug/L			480478	520040	1	Standard
	Pb	208	15.939	ug/L	0.349	2	115	688799	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-38
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:02:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	56130	2	Standard
	Cl	37		ug/L			3324914	3449843	1	Standard
>	Sc	45		ug/L			423672	655524	3	Standard
	Cr	52	15.694	ug/L	0.226	1	16311	434877	2	Standard
	Cr	53	15.833	ug/L	0.337	2	93	48350	1	Standard
	Mn	55	251.145	ug/L	6.787	2	527	9492078	0	Standard
>	Ge	72		ug/L			20993	22152	2	KED
	Ni	60	21.680	ug/L	0.609	2	13	21461	1	KED
	Ni	62	21.291	ug/L	0.602	2	8	3462	2	KED
	Cu	63	24.189	ug/L	0.437	1	34	71367	0	KED
	Cu	65	24.245	ug/L	0.176	0	19	35335	1	KED
	Zn	66	49.693	ug/L	1.295	2	36	19470	0	KED
	Zn	67	56.025	ug/L	2.006	3	4	3745	1	KED
	As	75	2.313	ug/L	0.089	3	5	462	1	KED
	Y	89		ug/L			210865	583850	0	Standard
	Kr	83		ug/L			43	213	12	Standard
>	In-1	115		ug/L			5860	5981	1	KED
	Cd	111	0.069	ug/L	0.010	14	2	17	11	KED
	Cd	114	0.056	ug/L	0.020	36	6	35	28	KED
>	Tb	159		ug/L			480478	530328	2	Standard
	Pb	208	4.009	ug/L	0.093	2	115	176724	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-39
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:06:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	52735	1	Standard
	Cl	37		ug/L			3324914	3391437	0	Standard
>	Sc	45		ug/L			423672	626958	1	Standard
	Cr	52	14.503	ug/L	0.069	0	16311	386284	1	Standard
	Cr	53	14.505	ug/L	0.222	1	93	42393	1	Standard
	Mn	55	240.178	ug/L	4.785	1	527	8686024	1	Standard
>	Ge	72		ug/L			20993	21421	1	KED
	Ni	60	18.640	ug/L	0.499	2	13	17847	1	KED
	Ni	62	19.561	ug/L	0.726	3	8	3076	2	KED
	Cu	63	22.002	ug/L	0.417	1	34	62784	0	KED
	Cu	65	22.445	ug/L	0.957	4	19	31621	2	KED
	Zn	66	46.606	ug/L	1.024	2	36	17664	1	KED
	Zn	67	53.270	ug/L	0.470	0	4	3446	1	KED
	As	75	2.073	ug/L	0.084	4	5	401	2	KED
	Y	89		ug/L			210865	578527	1	Standard
	Kr	83		ug/L			43	182	8	Standard
>	In-1	115		ug/L			5860	5952	2	KED
	Cd	111	0.065	ug/L	0.021	32	2	16	25	KED
	Cd	114	0.054	ug/L	0.013	23	6	34	20	KED
>	Tb	159		ug/L			480478	530871	3	Standard
	Pb	208	3.832	ug/L	0.120	3	115	169043	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:11:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	50097	1	Standard
	Cl	37		ug/L			3324914	3416962	0	Standard
>	Sc	45		ug/L			423672	579814	3	Standard
	Cr	52	13.140	ug/L	0.413	3	16311	325653	2	Standard
	Cr	53	13.489	ug/L	0.346	2	93	36455	1	Standard
	Mn	55	210.954	ug/L	3.243	1	527	7054531	1	Standard
>	Ge	72		ug/L			20993	21340	1	KED
	Ni	60	14.865	ug/L	0.177	1	13	14185	1	KED
	Ni	62	15.054	ug/L	0.633	4	8	2360	3	KED
	Cu	63	17.656	ug/L	0.427	2	34	50196	1	KED
	Cu	65	17.539	ug/L	0.382	2	19	24626	0	KED
	Zn	66	37.973	ug/L	1.030	2	36	14343	1	KED
	Zn	67	43.334	ug/L	1.166	2	4	2794	4	KED
	As	75	2.114	ug/L	0.086	4	5	407	3	KED
	Y	89		ug/L			210865	504175	1	Standard
	Kr	83		ug/L			43	146	9	Standard
>	In-1	115		ug/L			5860	5735	2	KED
	Cd	111	0.062	ug/L	0.016	25	2	14	19	KED
	Cd	114	0.071	ug/L	0.019	27	6	41	21	KED
>	Tb	159		ug/L			480478	507146	3	Standard
	Pb	208	3.376	ug/L	0.111	3	115	142276	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:15:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	59899	1	Standard
Cl	37		ug/L			3324914	3412739	1	Standard
> Sc	45		ug/L			423672	621114	0	Standard
Cr	52	14.759	ug/L	0.388	2	16311	389062	2	Standard
Cr	53	15.083	ug/L	0.258	1	93	43672	2	Standard
Mn	55	219.746	ug/L	5.425	2	527	7875162	2	Standard
> Ge	72		ug/L			20993	20560	0	KED
Ni	60	19.248	ug/L	0.084	0	13	17694	0	KED
Ni	62	19.239	ug/L	0.382	1	8	2905	2	KED
Cu	63	21.316	ug/L	0.161	0	34	58394	0	KED
Cu	65	21.715	ug/L	0.462	2	19	29378	1	KED
Zn	66	46.140	ug/L	1.378	2	36	16790	3	KED
Zn	67	52.541	ug/L	1.287	2	4	3262	2	KED
As	75	2.213	ug/L	0.064	2	5	411	2	KED
Y	89		ug/L			210865	563606	1	Standard
Kr	83		ug/L			43	180	8	Standard
> In-1	115		ug/L			5860	5618	1	KED
Cd	111	0.069	ug/L	0.005	7	2	16	5	KED
Cd	114	0.047	ug/L	0.010	20	6	29	16	KED
> Tb	159		ug/L			480478	517401	1	Standard
Pb	208	3.772	ug/L	0.088	2	115	162252	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:20:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	56661	0	Standard
	Cl	37		ug/L			3324914	3307978	1	Standard
>	Sc	45		ug/L			423672	586636	1	Standard
	Cr	52	15.760	ug/L	0.120	0	16311	390865	2	Standard
	Cr	53	15.567	ug/L	0.186	1	93	42563	1	Standard
	Mn	55	228.346	ug/L	2.803	1	527	7727400	0	Standard
>	Ge	72		ug/L			20993	20967	0	KED
	Ni	60	16.033	ug/L	0.324	2	13	15030	1	KED
	Ni	62	15.699	ug/L	0.381	2	8	2419	1	KED
	Cu	63	158.739	ug/L	3.297	2	34	443279	2	KED
	Cu	65	157.610	ug/L	3.790	2	19	217311	1	KED
	Zn	66	119.814	ug/L	0.740	0	36	44402	0	KED
	Zn	67	117.694	ug/L	0.712	0	4	7447	0	KED
	As	75	3.950	ug/L	0.136	3	5	743	2	KED
	Y	89		ug/L			210865	490065	1	Standard
	Kr	83		ug/L			43	151	13	Standard
>	In-1	115		ug/L			5860	5856	0	KED
	Cd	111	0.150	ug/L	0.016	10	2	33	9	KED
	Cd	114	0.120	ug/L	0.044	36	6	68	33	KED
>	Tb	159		ug/L			480478	499582	4	Standard
	Pb	208	17.333	ug/L	0.748	4	115	718816	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:27:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	32965	3	Standard
	Cl	**37**		ug/L			3324914	3611272	1	Standard
⎡>	**Sc**	**45**		ug/L			423672	441521	1	Standard
⎢	**Cr**	**52**	**51.036**	ug/L	0.636	1	16311	914511	1	Standard
⎢	**Cr**	**53**	**51.230**	ug/L	0.666	1	93	105210	2	Standard
⎣	**Mn**	**55**	**51.491**	ug/L	0.290	0	527	1312008	1	Standard
⎡>	**Ge**	**72**		ug/L			20993	21313	1	KED
⎢	**Ni**	**60**	**50.124**	ug/L	0.848	1	13	47731	1	KED
⎢	**Ni**	**62**	**50.043**	ug/L	1.188	2	8	7818	0	KED
⎢	**Cu**	**63**	**49.092**	ug/L	0.841	1	34	139333	0	KED
⎢	**Cu**	**65**	**50.442**	ug/L	1.435	2	19	70693	1	KED
⎢	**Zn**	**66**	**51.093**	ug/L	0.763	1	36	19267	2	KED
⎢	**Zn**	**67**	**50.557**	ug/L	0.661	1	4	3254	1	KED
⎣	**As**	**75**	**49.405**	ug/L	1.132	2	5	9386	1	KED
	Y	**89**		ug/L			210865	215921	2	Standard
	Kr	**83**		ug/L			43	60	5	Standard
⎡>	**In-1**	**115**		ug/L			5860	6118	2	KED
⎢	**Cd**	**111**	**50.653**	ug/L	1.044	2	2	11225	0	KED
⎣	**Cd**	**114**	**50.722**	ug/L	0.820	1	6	27308	1	KED
⎡>	**Tb**	**159**		ug/L			480478	497473	4	Standard
⎣	**Pb**	**208**	**53.836**	ug/L	1.820	3	115	2223547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:34:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30093	0	Standard
	Cl	**37**		ug/L			3324914	3264181	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	404319	0	Standard
⎢	**Cr**	**52**	**-0.006**	ug/L	0.024	395	16311	15466	1	Standard
⎢	**Cr**	**53**	**-0.000**	ug/L	0.006	1340	93	88	13	Standard
⎣	**Mn**	**55**	**0.004**	ug/L	0.000	10	527	602	1	Standard
⎡>	**Ge**	**72**		ug/L			20993	20183	2	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.002	2748	13	13	14	KED
⎢	**Ni**	**62**	**-0.028**	ug/L	0.013	46	8	3	50	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.004	171	34	26	47	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.002	66	19	13	20	KED
⎢	**Zn**	**66**	**-0.039**	ug/L	0.015	39	36	20	24	KED
⎢	**Zn**	**67**	**-0.018**	ug/L	0.065	365	4	3	124	KED
⎣	**As**	**75**	**0.012**	ug/L	0.002	19	5	7	6	KED
	Y	**89**		ug/L			210865	198781	1	Standard
	Kr	**83**		ug/L			43	51	16	Standard
⎡>	**In-1**	**115**		ug/L			5860	5576	1	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.010	364	2	1	124	KED
⎣	**Cd**	**114**	**-0.008**	ug/L	0.004	47	6	1	101	KED
⎡>	**Tb**	**159**		ug/L			480478	458416	1	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	158	115	112	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:39:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	53197	2	Standard
Cl	37		ug/L			3324914	3384197	1	Standard
> Sc	45		ug/L			423672	619722	2	Standard
Cr	52	14.181	ug/L	0.276	1	16311	373894	2	Standard
Cr	53	14.477	ug/L	0.071	0	93	41824	1	Standard
Mn	55	251.992	ug/L	0.481	0	527	9009600	1	Standard
> Ge	72		ug/L			20993	21749	2	KED
Ni	60	16.085	ug/L	0.374	2	13	15637	0	KED
Ni	62	16.292	ug/L	0.561	3	8	2603	3	KED
Cu	63	82.253	ug/L	1.968	2	34	238173	1	KED
Cu	65	83.079	ug/L	2.891	3	19	118773	0	KED
Zn	66	85.056	ug/L	2.781	3	36	32690	0	KED
Zn	67	85.857	ug/L	0.420	0	4	5637	2	KED
As	75	3.251	ug/L	0.179	5	5	635	2	KED
Y	89		ug/L			210865	524566	2	Standard
Kr	83		ug/L			43	171	16	Standard
> In-1	115		ug/L			5860	5843	2	KED
Cd	111	0.126	ug/L	0.020	15	2	28	16	KED
Cd	114	0.129	ug/L	0.030	23	6	72	19	KED
> Tb	159		ug/L			480478	510610	3	Standard
Pb	208	9.229	ug/L	0.316	3	115	391442	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:43:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	51865	3	Standard
Cl	37		ug/L			3324914	3366801	1	Standard
> Sc	45		ug/L			423672	620310	2	Standard
Cr	52	15.786	ug/L	0.255	1	16311	413795	1	Standard
Cr	53	15.909	ug/L	0.372	2	93	45977	1	Standard
Mn	55	279.736	ug/L	5.804	2	527	10007123	0	Standard
> Ge	72		ug/L			20993	21035	1	KED
Ni	60	17.930	ug/L	0.280	1	13	16862	1	KED
Ni	62	18.359	ug/L	0.316	1	8	2836	0	KED
Cu	63	147.537	ug/L	2.988	2	34	413272	2	KED
Cu	65	151.990	ug/L	3.177	2	19	210210	0	KED
Zn	66	166.818	ug/L	3.578	2	36	61992	0	KED
Zn	67	157.778	ug/L	3.633	2	4	10012	0	KED
As	75	3.962	ug/L	0.091	2	5	748	3	KED
Y	89		ug/L			210865	527866	0	Standard
Kr	83		ug/L			43	186	2	Standard
> In-1	115		ug/L			5860	5743	1	KED
Cd	111	0.183	ug/L	0.020	11	2	40	11	KED
Cd	114	0.137	ug/L	0.032	23	6	75	22	KED
> Tb	159		ug/L			480478	505546	4	Standard
Pb	208	18.854	ug/L	0.585	3	115	791521	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:47:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	66838	2	Standard
	Cl	37		ug/L			3324914	3396536	2	Standard
>	Sc	45		ug/L			423672	614888	1	Standard
	Cr	52	16.477	ug/L	0.220	1	16311	427204	1	Standard
	Cr	53	16.367	ug/L	0.362	2	93	46902	2	Standard
	Mn	55	344.942	ug/L	3.316	0	527	12235528	0	Standard
>	Ge	72		ug/L			20993	21055	2	KED
	Ni	60	17.420	ug/L	0.048	0	13	16399	2	KED
	Ni	62	17.887	ug/L	0.303	1	8	2766	1	KED
	Cu	63	299.634	ug/L	4.088	1	34	840080	1	KED
	Cu	65	303.440	ug/L	4.792	1	19	420097	1	KED
	Zn	66	267.295	ug/L	5.754	2	36	99429	2	KED
	Zn	67	251.381	ug/L	4.551	1	4	15972	3	KED
	As	75	7.441	ug/L	0.100	1	5	1402	3	KED
	Y	89		ug/L			210865	524948	1	Standard
	Kr	83		ug/L			43	177	4	Standard
>	In-1	115		ug/L			5860	5742	1	KED
	Cd	111	0.235	ug/L	0.015	6	2	51	4	KED
	Cd	114	0.264	ug/L	0.049	18	6	139	18	KED
>	Tb	159		ug/L			480478	510693	3	Standard
	Pb	208	31.171	ug/L	1.169	3	115	1321876	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:52:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	60756	3	Standard
	Cl	37		ug/L			3324914	3487794	2	Standard
>	Sc	45		ug/L			423672	658659	1	Standard
	Cr	52	19.231	ug/L	0.104	0	16311	529891	1	Standard
	Cr	53	19.629	ug/L	0.337	1	93	60229	2	Standard
	Mn	55	312.870	ug/L	3.636	1	527	11889927	2	Standard
>	Ge	72		ug/L			20993	20872	1	KED
	Ni	60	20.331	ug/L	0.362	1	13	18971	2	KED
	Ni	62	20.419	ug/L	0.229	1	8	3129	1	KED
	Cu	63	174.617	ug/L	5.353	3	34	485202	1	KED
	Cu	65	177.058	ug/L	1.385	0	19	243025	1	KED
	Zn	66	172.556	ug/L	6.360	3	36	63623	2	KED
	Zn	67	171.433	ug/L	3.933	2	4	10794	0	KED
	As	75	3.678	ug/L	0.143	3	5	689	2	KED
	Y	89		ug/L			210865	578852	0	Standard
	Kr	83		ug/L			43	184	4	Standard
>	In-1	115		ug/L			5860	5582	2	KED
	Cd	111	0.298	ug/L	0.068	22	2	62	24	KED
	Cd	114	0.265	ug/L	0.039	14	6	135	13	KED
>	Tb	159		ug/L			480478	532396	1	Standard
	Pb	208	43.157	ug/L	1.236	2	115	1909113	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-18
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:56:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	58924	1	Standard
Cl	37		ug/L			3324914	3370048	0	Standard
> Sc	45		ug/L			423672	617373	0	Standard
Cr	52	21.832	ug/L	0.177	0	16311	560643	1	Standard
Cr	53	21.714	ug/L	0.394	1	93	62433	2	Standard
Mn	55	265.880	ug/L	1.343	0	527	9470337	0	Standard
> Ge	72		ug/L			20993	21074	1	KED
Ni	60	21.377	ug/L	0.131	0	13	20140	1	KED
Ni	62	21.451	ug/L	0.056	0	8	3319	1	KED
Cu	63	128.660	ug/L	0.628	0	34	361106	1	KED
Cu	65	130.741	ug/L	1.364	1	19	181193	0	KED
Zn	66	227.423	ug/L	0.447	0	36	84680	1	KED
Zn	67	215.190	ug/L	5.001	2	4	13680	1	KED
As	75	3.876	ug/L	0.103	2	5	733	2	KED
Y	89		ug/L			210865	554098	2	Standard
Kr	83		ug/L			43	175	5	Standard
> In-1	115		ug/L			5860	5813	0	KED
Cd	111	0.338	ug/L	0.039	11	2	73	11	KED
Cd	114	0.341	ug/L	0.006	1	6	180	1	KED
> Tb	159		ug/L			480478	501633	3	Standard
Pb	208	67.113	ug/L	2.232	3	115	2795636	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:01:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	55879	5	Standard
	Cl	37		ug/L			3324914	3391724	1	Standard
⌈>	Sc	45		ug/L			423672	584864	1	Standard
|	Cr	52	17.323	ug/L	0.138	0	16311	426093	2	Standard
|	Cr	53	17.444	ug/L	0.175	1	93	47536	1	Standard
⌊	Mn	55	256.429	ug/L	4.069	1	527	8650925	0	Standard
⌈>	Ge	72		ug/L			20993	21016	0	KED
|	Ni	60	15.312	ug/L	0.363	2	13	14388	1	KED
|	Ni	62	15.874	ug/L	0.508	3	8	2452	3	KED
|	Cu	63	64.773	ug/L	0.745	1	34	181300	0	KED
|	Cu	65	64.950	ug/L	1.139	1	19	89777	1	KED
|	Zn	66	164.267	ug/L	1.606	0	36	61003	0	KED
|	Zn	67	156.623	ug/L	1.698	1	4	9932	1	KED
⌊	As	75	4.273	ug/L	0.070	1	5	805	1	KED
	Y	89		ug/L			210865	476907	0	Standard
	Kr	83		ug/L			43	163	5	Standard
⌈>	In-1	115		ug/L			5860	5596	2	KED
|	Cd	111	0.273	ug/L	0.027	10	2	57	11	KED
⌊	Cd	114	0.279	ug/L	0.035	12	6	143	11	KED
⌈>	Tb	159		ug/L			480478	497986	2	Standard
⌊	Pb	208	22.666	ug/L	0.532	2	115	937763	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:05:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	57831	1	Standard
	Cl	37		ug/L			3324914	3420381	1	Standard
>	Sc	45		ug/L			423672	598825	2	Standard
	Cr	52	25.556	ug/L	0.604	2	16311	632401	1	Standard
	Cr	53	25.854	ug/L	0.428	1	93	72062	2	Standard
	Mn	55	295.355	ug/L	4.829	1	527	10200949	1	Standard
>	Ge	72		ug/L			20993	21303	3	KED
	Ni	60	17.800	ug/L	0.779	4	13	16947	4	KED
	Ni	62	17.679	ug/L	0.306	1	8	2765	2	KED
	Cu	63	69.250	ug/L	2.212	3	34	196362	2	KED
	Cu	65	69.809	ug/L	0.421	0	19	97819	3	KED
	Zn	66	177.891	ug/L	3.546	1	36	66932	2	KED
	Zn	67	188.821	ug/L	0.844	0	4	12138	4	KED
	As	75	4.955	ug/L	0.133	2	5	945	1	KED
	Y	89		ug/L			210865	515122	1	Standard
	Kr	83		ug/L			43	168	14	Standard
>	In-1	115		ug/L			5860	5688	2	KED
	Cd	111	0.332	ug/L	0.019	5	2	70	3	KED
	Cd	114	0.302	ug/L	0.037	12	6	157	11	KED
>	Tb	159		ug/L			480478	507345	2	Standard
	Pb	208	35.143	ug/L	0.833	2	115	1481052	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:09:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	56409	4	Standard
Cl	37		ug/L			3324914	3493037	0	Standard
> Sc	45		ug/L			423672	588963	2	Standard
Cr	52	16.558	ug/L	0.195	1	16311	411058	1	Standard
Cr	53	16.775	ug/L	0.056	0	93	46038	1	Standard
Mn	55	268.768	ug/L	7.479	2	527	9129249	0	Standard
> Ge	72		ug/L			20993	21042	0	KED
Ni	60	17.956	ug/L	0.120	0	13	16893	0	KED
Ni	62	17.686	ug/L	0.379	2	8	2734	1	KED
Cu	63	38.342	ug/L	0.262	0	34	107475	1	KED
Cu	65	38.931	ug/L	0.301	0	19	53892	1	KED
Zn	66	112.545	ug/L	2.026	1	36	41861	2	KED
Zn	67	140.182	ug/L	1.154	0	4	8901	0	KED
As	75	3.268	ug/L	0.158	4	5	618	4	KED
Y	89		ug/L			210865	498858	1	Standard
Kr	83		ug/L			43	129	14	Standard
> In-1	115		ug/L			5860	5514	1	KED
Cd	111	0.256	ug/L	0.041	16	2	53	16	KED
Cd	114	0.276	ug/L	0.032	11	6	139	10	KED
> Tb	159		ug/L			480478	508471	5	Standard
Pb	208	26.628	ug/L	1.257	4	115	1123426	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-25
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:14:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	55168	1	Standard
Cl	37		ug/L			3324914	3440549	2	Standard
Sc	45		ug/L			423672	635485	1	Standard
Cr	52	16.070	ug/L	0.229	1	16311	431248	2	Standard
Cr	53	16.360	ug/L	0.150	0	93	48452	1	Standard
Mn	55	334.114	ug/L	9.380	2	527	12247891	2	Standard
Ge	72		ug/L			20993	20516	2	KED
Ni	60	17.893	ug/L	0.574	3	13	16407	1	KED
Ni	62	17.766	ug/L	0.354	1	8	2677	2	KED
Cu	63	43.485	ug/L	0.688	1	34	118813	0	KED
Cu	65	44.186	ug/L	1.622	3	19	59607	2	KED
Zn	66	145.151	ug/L	3.640	2	36	52615	1	KED
Zn	67	137.829	ug/L	4.325	3	4	8530	1	KED
As	75	3.428	ug/L	0.128	3	5	632	4	KED
Y	89		ug/L			210865	577981	0	Standard
Kr	83		ug/L			43	187	14	Standard
In-1	115		ug/L			5860	5625	1	KED
Cd	111	0.293	ug/L	0.023	7	2	61	6	KED
Cd	114	0.273	ug/L	0.018	6	6	141	6	KED
Tb	159		ug/L			480478	518871	1	Standard
Pb	208	30.997	ug/L	0.795	2	115	1336219	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-26
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:18:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	58886	0	Standard
Cl	37		ug/L			3324914	3401391	1	Standard
> Sc	45		ug/L			423672	611363	1	Standard
Cr	52	14.816	ug/L	0.184	1	16311	384341	2	Standard
Cr	53	14.908	ug/L	0.240	1	93	42493	2	Standard
Mn	55	330.629	ug/L	5.954	1	527	11660014	0	Standard
> Ge	72		ug/L			20993	21424	0	KED
Ni	60	17.286	ug/L	0.269	1	13	16560	1	KED
Ni	62	17.264	ug/L	0.386	2	8	2717	2	KED
Cu	63	35.504	ug/L	0.371	1	34	101332	1	KED
Cu	65	35.814	ug/L	0.192	0	19	50476	0	KED
Zn	66	132.881	ug/L	1.609	1	36	50317	1	KED
Zn	67	126.361	ug/L	3.197	2	4	8170	2	KED
As	75	3.639	ug/L	0.152	4	5	700	4	KED
Y	89		ug/L			210865	564808	1	Standard
Kr	83		ug/L			43	184	16	Standard
> In-1	115		ug/L			5860	6013	1	KED
Cd	111	0.239	ug/L	0.025	10	2	54	10	KED
Cd	114	0.229	ug/L	0.033	14	6	127	14	KED
> Tb	159		ug/L			480478	514463	3	Standard
Pb	208	24.244	ug/L	0.723	2	115	1035773	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:26:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31867	2	Standard
	Cl	**37**		ug/L			3324914	3553555	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	411155	2	Standard
⎢	**Cr**	**52**	**50.318**	ug/L	0.946	1	16311	839634	0	Standard
⎢	**Cr**	**53**	**50.103**	ug/L	0.527	1	93	95819	2	Standard
⎣	**Mn**	**55**	**51.220**	ug/L	0.354	0	527	1215524	2	Standard
⎡>	**Ge**	**72**		ug/L			20993	20963	1	KED
⎢	**Ni**	**60**	**51.785**	ug/L	0.802	1	13	48508	1	KED
⎢	**Ni**	**62**	**51.093**	ug/L	0.143	0	8	7854	1	KED
⎢	**Cu**	**63**	**50.499**	ug/L	0.978	1	34	140988	1	KED
⎢	**Cu**	**65**	**50.551**	ug/L	0.872	1	19	69697	0	KED
⎢	**Zn**	**66**	**51.345**	ug/L	1.017	1	36	19046	2	KED
⎢	**Zn**	**67**	**51.179**	ug/L	1.281	2	4	3241	3	KED
⎣	**As**	**75**	**50.172**	ug/L	1.082	2	5	9376	0	KED
	Y	**89**		ug/L			210865	197236	2	Standard
	Kr	**83**		ug/L			43	57	11	Standard
⎡>	**In-1**	**115**		ug/L			5860	5407	1	KED
⎢	**Cd**	**111**	**51.898**	ug/L	0.494	0	2	10169	0	KED
⎣	**Cd**	**114**	**53.497**	ug/L	0.373	0	6	25468	1	KED
⎡>	**Tb**	**159**		ug/L			480478	467036	3	Standard
⎣	**Pb**	**208**	**53.906**	ug/L	1.877	3	115	2090397	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:33:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31022	3	Standard
	Cl	**37**		ug/L			3324914	3277195	0	Standard
⌈>	**Sc**	**45**		ug/L			423672	397897	0	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.027	190	16311	15541	1	Standard
|	**Cr**	**53**	**0.001**	ug/L	0.008	597	93	90	16	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.001	11	527	672	2	Standard
⌈>	**Ge**	**72**		ug/L			20993	20621	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.002	509	13	13	14	KED
|	**Ni**	**62**	**-0.008**	ug/L	0.029	375	8	6	62	KED
|	**Cu**	**63**	**0.006**	ug/L	0.004	60	34	50	20	KED
|	**Cu**	**65**	**0.007**	ug/L	0.003	43	19	29	15	KED
|	**Zn**	**66**	**0.059**	ug/L	0.039	65	36	57	25	KED
|	**Zn**	**67**	**0.032**	ug/L	0.064	198	4	6	62	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.004	61	5	4	19	KED
	Y	**89**		ug/L			210865	197843	2	Standard
	Kr	**83**		ug/L			43	52	20	Standard
⌈>	**In-1**	**115**		ug/L			5860	5695	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	95	2	1	34	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	74	6	3	69	KED
⌈>	**Tb**	**159**		ug/L			480478	452103	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	3	115	251	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-30
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:37:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	59152	4	Standard
	Cl	37		ug/L			3324914	3435177	4	Standard
>	Sc	45		ug/L			423672	584804	3	Standard
	Cr	52	17.182	ug/L	0.410	2	16311	422604	2	Standard
	Cr	53	17.075	ug/L	0.172	1	93	46541	4	Standard
	Mn	55	378.718	ug/L	6.523	1	527	12778607	3	Standard
>	Ge	72		ug/L			20993	20917	1	KED
	Ni	60	17.923	ug/L	0.525	2	13	16759	2	KED
	Ni	62	20.533	ug/L	0.531	2	8	3153	2	KED
	Cu	63	1040.504	ug/L	9.440	0	34	2898097	0	KED
	Cu	65	1018.154	ug/L	12.658	1	19	1400619	2	KED
	Zn	66	428.838	ug/L	5.562	1	36	158462	2	KED
	Zn	67	391.434	ug/L	4.387	1	4	24700	1	KED
	As	75	10.788	ug/L	0.234	2	5	2016	1	KED
	Y	89		ug/L			210865	490076	2	Standard
	Kr	83		ug/L			43	137	12	Standard
>	In-1	115		ug/L			5860	5735	2	KED
	Cd	111	0.409	ug/L	0.051	12	2	87	13	KED
	Cd	114	0.403	ug/L	0.045	11	6	209	12	KED
>	Tb	159		ug/L			480478	493534	5	Standard
	Pb	208	47.526	ug/L	2.114	4	115	1946023	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-31
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:41:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	48190	2	Standard
Cl	37		ug/L			3324914	3410039	1	Standard
> Sc	45		ug/L			423672	583149	2	Standard
Cr	52	15.209	ug/L	0.071	0	16311	375698	1	Standard
Cr	53	15.306	ug/L	0.087	0	93	41609	2	Standard
Mn	55	230.551	ug/L	5.553	2	527	7755480	2	Standard
> Ge	72		ug/L			20993	20832	1	KED
Ni	60	18.975	ug/L	0.540	2	13	17669	1	KED
Ni	62	19.450	ug/L	0.749	3	8	2976	4	KED
Cu	63	157.229	ug/L	3.198	2	34	436143	1	KED
Cu	65	161.552	ug/L	1.613	0	19	221341	1	KED
Zn	66	103.568	ug/L	3.204	3	36	38133	2	KED
Zn	67	101.228	ug/L	3.595	3	4	6363	2	KED
As	75	2.563	ug/L	0.065	2	5	481	3	KED
Y	89		ug/L			210865	512499	0	Standard
Kr	83		ug/L			43	184	11	Standard
> In-1	115		ug/L			5860	5524	3	KED
Cd	111	0.132	ug/L	0.012	9	2	28	10	KED
Cd	114	0.120	ug/L	0.021	17	6	64	13	KED
> Tb	159		ug/L			480478	497159	3	Standard
Pb	208	23.966	ug/L	0.629	2	115	989627	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-32
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:46:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	42321	3	Standard
	Cl	37		ug/L			3324914	3344335	2	Standard
⌈>	Sc	45		ug/L			423672	528839	1	Standard
|	Cr	52	10.027	ug/L	0.221	2	16311	231560	2	Standard
|	Cr	53	10.334	ug/L	0.090	0	93	25513	1	Standard
⌊	Mn	55	167.397	ug/L	2.556	1	527	5107822	2	Standard
⌈>	Ge	72		ug/L			20993	21127	0	KED
|	Ni	60	17.028	ug/L	0.561	3	13	16083	2	KED
|	Ni	62	17.093	ug/L	0.584	3	8	2652	2	KED
|	Cu	63	13.831	ug/L	0.497	3	34	38938	2	KED
|	Cu	65	13.620	ug/L	0.392	2	19	18938	2	KED
|	Zn	66	40.743	ug/L	1.194	2	36	15237	2	KED
|	Zn	67	43.857	ug/L	0.767	1	4	2799	0	KED
⌊	As	75	1.862	ug/L	0.046	2	5	356	3	KED
	Y	89		ug/L			210865	443516	1	Standard
	Kr	83		ug/L			43	123	17	Standard
⌈>	In-1	115		ug/L			5860	5736	2	KED
|	Cd	111	0.040	ug/L	0.005	12	2	10	9	KED
⌊	Cd	114	0.027	ug/L	0.008	29	6	19	20	KED
⌈>	Tb	159		ug/L			480478	499603	3	Standard
⌊	Pb	208	3.572	ug/L	0.155	4	115	148265	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-33
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:50:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	46571	1	Standard
Cl	37		ug/L			3324914	3435162	1	Standard
> Sc	45		ug/L			423672	538074	0	Standard
Cr	52	10.112	ug/L	0.182	1	16311	237442	1	Standard
Cr	53	10.327	ug/L	0.033	0	93	25939	0	Standard
Mn	55	186.104	ug/L	3.535	1	527	5776941	1	Standard
> Ge	72		ug/L			20993	20762	2	KED
Ni	60	17.434	ug/L	0.532	3	13	16174	0	KED
Ni	62	16.741	ug/L	1.597	9	8	2549	6	KED
Cu	63	14.629	ug/L	0.298	2	34	40468	1	KED
Cu	65	14.902	ug/L	0.346	2	19	20356	0	KED
Zn	66	42.271	ug/L	2.748	6	36	15515	3	KED
Zn	67	46.612	ug/L	1.609	3	4	2922	2	KED
As	75	1.735	ug/L	0.090	5	5	326	3	KED
Y	89		ug/L			210865	494575	1	Standard
Kr	83		ug/L			43	135	14	Standard
> In-1	115		ug/L			5860	5511	4	KED
Cd	111	0.042	ug/L	0.016	36	2	10	24	KED
Cd	114	0.035	ug/L	0.014	40	6	23	34	KED
> Tb	159		ug/L			480478	497846	2	Standard
Pb	208	2.333	ug/L	0.078	3	115	96587	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:55:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	47978	1	Standard
Cl	37		ug/L			3324914	3428684	0	Standard
> Sc	45		ug/L			423672	547385	1	Standard
Cr	52	11.305	ug/L	0.195	1	16311	267509	0	Standard
Cr	53	11.410	ug/L	0.102	0	93	29141	0	Standard
Mn	55	204.057	ug/L	5.069	2	527	6442844	1	Standard
> Ge	72		ug/L			20993	20835	0	KED
Ni	60	16.911	ug/L	0.304	1	13	15754	1	KED
Ni	62	17.067	ug/L	0.392	2	8	2612	2	KED
Cu	63	18.217	ug/L	0.318	1	34	50577	1	KED
Cu	65	18.414	ug/L	0.250	1	19	25249	1	KED
Zn	66	82.995	ug/L	0.667	0	36	30574	0	KED
Zn	67	81.424	ug/L	3.657	4	4	5121	4	KED
As	75	3.418	ug/L	0.173	5	5	640	4	KED
Y	89		ug/L			210865	488291	1	Standard
Kr	83		ug/L			43	158	7	Standard
> In-1	115		ug/L			5860	5655	2	KED
Cd	111	0.114	ug/L	0.023	19	2	25	17	KED
Cd	114	0.124	ug/L	0.011	9	6	67	9	KED
> Tb	159		ug/L			480478	503350	3	Standard
Pb	208	9.375	ug/L	0.348	3	115	391984	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:59:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	52623	1	Standard
Cl	37		ug/L			3324914	3421904	1	Standard
> Sc	45		ug/L			423672	558781	2	Standard
Cr	52	12.347	ug/L	0.072	0	16311	296308	1	Standard
Cr	53	12.436	ug/L	0.215	1	93	32408	1	Standard
Mn	55	191.830	ug/L	0.459	0	527	6184482	2	Standard
> Ge	72		ug/L			20993	20928	1	KED
Ni	60	19.637	ug/L	0.053	0	13	18374	2	KED
Ni	62	18.816	ug/L	0.175	0	8	2892	2	KED
Cu	63	17.874	ug/L	0.477	2	34	49839	2	KED
Cu	65	18.632	ug/L	0.936	5	19	25647	3	KED
Zn	66	65.456	ug/L	0.326	0	36	24229	1	KED
Zn	67	68.077	ug/L	3.169	4	4	4300	4	KED
As	75	2.141	ug/L	0.093	4	5	404	3	KED
Y	89		ug/L			210865	499188	1	Standard
Kr	83		ug/L			43	168	6	Standard
> In-1	115		ug/L			5860	5564	0	KED
Cd	111	0.095	ug/L	0.011	11	2	21	11	KED
Cd	114	0.077	ug/L	0.015	19	6	43	17	KED
> Tb	159		ug/L			480478	493587	3	Standard
Pb	208	13.795	ug/L	0.345	2	115	565609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:03:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	46348	1	Standard
Cl	37		ug/L			3324914	3429129	2	Standard
> Sc	45		ug/L			423672	552050	1	Standard
Cr	52	10.564	ug/L	0.091	0	16311	253507	1	Standard
Cr	53	10.535	ug/L	0.259	2	93	27140	0	Standard
Mn	55	171.028	ug/L	1.826	1	527	5446801	0	Standard
> Ge	72		ug/L			20993	21205	2	KED
Ni	60	18.315	ug/L	0.616	3	13	17357	2	KED
Ni	62	17.864	ug/L	0.425	2	8	2783	3	KED
Cu	63	15.363	ug/L	0.470	3	34	43403	2	KED
Cu	65	15.543	ug/L	0.283	1	19	21694	3	KED
Zn	66	47.926	ug/L	1.605	3	36	17984	3	KED
Zn	67	50.322	ug/L	2.412	4	4	3221	3	KED
As	75	2.000	ug/L	0.068	3	5	383	5	KED
Y	89		ug/L			210865	613016	0	Standard
Kr	83		ug/L			43	153	8	Standard
> In-1	115		ug/L			5860	5884	1	KED
Cd	111	0.040	ug/L	0.004	8	2	10	5	KED
Cd	114	0.044	ug/L	0.010	21	6	29	15	KED
> Tb	159		ug/L			480478	508235	3	Standard
Pb	208	5.068	ug/L	0.178	3	115	213993	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:08:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	49808	1	Standard
	Cl	37		ug/L			3324914	3433582	0	Standard
>	Sc	45		ug/L			423672	580459	0	Standard
	Cr	52	15.332	ug/L	0.186	1	16311	376823	1	Standard
	Cr	53	15.527	ug/L	0.094	0	93	42009	1	Standard
	Mn	55	259.850	ug/L	4.345	1	527	8701827	1	Standard
>	Ge	72		ug/L			20993	20813	1	KED
	Ni	60	21.054	ug/L	0.414	1	13	19587	0	KED
	Ni	62	20.511	ug/L	1.219	5	8	3133	4	KED
	Cu	63	23.716	ug/L	0.404	1	34	65772	2	KED
	Cu	65	23.758	ug/L	0.203	0	19	32534	1	KED
	Zn	66	82.527	ug/L	1.292	1	36	30366	0	KED
	Zn	67	86.803	ug/L	1.844	2	4	5453	1	KED
	As	75	2.533	ug/L	0.052	2	5	475	1	KED
	Y	89		ug/L			210865	470527	2	Standard
	Kr	83		ug/L			43	176	6	Standard
>	In-1	115		ug/L			5860	5527	2	KED
	Cd	111	0.145	ug/L	0.019	12	2	31	10	KED
	Cd	114	0.143	ug/L	0.030	21	6	75	19	KED
>	Tb	159		ug/L			480478	492355	2	Standard
	Pb	208	19.863	ug/L	0.670	3	115	812292	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:12:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	55628	1	Standard
Cl	37		ug/L			3324914	3495838	2	Standard
> Sc	45		ug/L			423672	619912	1	Standard
Cr	52	17.326	ug/L	0.276	1	16311	451626	0	Standard
Cr	53	17.477	ug/L	0.170	0	93	50486	2	Standard
Mn	55	296.129	ug/L	1.479	0	527	10590734	1	Standard
> Ge	72		ug/L			20993	20654	1	KED
Ni	60	21.316	ug/L	0.309	1	13	19680	0	KED
Ni	62	20.963	ug/L	1.167	5	8	3178	4	KED
Cu	63	35.930	ug/L	1.052	2	34	98840	2	KED
Cu	65	36.339	ug/L	0.848	2	19	49367	1	KED
Zn	66	128.330	ug/L	1.419	1	36	46845	1	KED
Zn	67	123.723	ug/L	5.019	4	4	7710	3	KED
As	75	3.622	ug/L	0.116	3	5	672	2	KED
Y	89		ug/L			210865	534098	2	Standard
Kr	83		ug/L			43	182	16	Standard
> In-1	115		ug/L			5860	5439	0	KED
Cd	111	0.341	ug/L	0.010	2	2	69	2	KED
Cd	114	0.343	ug/L	0.038	10	6	170	10	KED
> Tb	159		ug/L			480478	501504	4	Standard
Pb	208	42.916	ug/L	1.362	3	115	1786980	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:17:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	53324	2	Standard
Cl	37		ug/L			3324914	3531376	1	Standard
> Sc	45		ug/L			423672	549194	1	Standard
Cr	52	9.678	ug/L	0.051	0	16311	232837	1	Standard
Cr	53	9.817	ug/L	0.167	1	93	25171	1	Standard
Mn	55	167.741	ug/L	0.708	0	527	5314942	1	Standard
> Ge	72		ug/L			20993	21306	0	KED
Ni	60	17.268	ug/L	0.496	2	13	16450	2	KED
Ni	62	16.962	ug/L	0.027	0	8	2655	0	KED
Cu	63	14.075	ug/L	0.122	0	34	39965	0	KED
Cu	65	14.496	ug/L	0.308	2	19	20330	2	KED
Zn	66	45.175	ug/L	0.389	0	36	17034	0	KED
Zn	67	46.107	ug/L	1.742	3	4	2967	3	KED
As	75	1.786	ug/L	0.028	1	5	344	1	KED
Y	89		ug/L			210865	541666	1	Standard
Kr	83		ug/L			43	123	12	Standard
> In-1	115		ug/L			5860	5660	0	KED
Cd	111	0.030	ug/L	0.005	17	2	8	13	KED
Cd	114	0.039	ug/L	0.005	12	6	25	9	KED
> Tb	159		ug/L			480478	508493	3	Standard
Pb	208	5.829	ug/L	0.221	3	115	246247	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:24:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31687	3	Standard
	Cl	**37**		ug/L			3324914	3528087	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	404925	2	Standard
|	**Cr**	**52**	**51.520**	ug/L	1.179	2	16311	846326	2	Standard
|	**Cr**	**53**	**51.090**	ug/L	1.275	2	93	96187	1	Standard
⌊	**Mn**	**55**	**51.365**	ug/L	0.640	1	527	1200132	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	19951	1	KED
|	**Ni**	**60**	**51.930**	ug/L	1.507	2	13	46286	1	KED
|	**Ni**	**62**	**51.456**	ug/L	0.981	1	8	7527	1	KED
|	**Cu**	**63**	**51.766**	ug/L	0.343	0	34	137551	0	KED
|	**Cu**	**65**	**52.294**	ug/L	1.483	2	19	68610	1	KED
|	**Zn**	**66**	**50.951**	ug/L	1.349	2	36	17982	1	KED
|	**Zn**	**67**	**53.035**	ug/L	1.493	2	4	3195	2	KED
⌊	**As**	**75**	**51.477**	ug/L	0.884	1	5	9157	1	KED
	Y	**89**		ug/L			210865	201459	0	Standard
	Kr	**83**		ug/L			43	40	17	Standard
⌈>	**In-1**	**115**		ug/L			5860	5557	1	KED
|	**Cd**	**111**	**51.054**	ug/L	0.731	1	2	10280	0	KED
⌊	**Cd**	**114**	**51.070**	ug/L	0.654	1	6	24983	0	KED
⌈>	**Tb**	**159**		ug/L			480478	460335	3	Standard
⌊	**Pb**	**208**	**54.571**	ug/L	1.494	2	115	2086351	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:31:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30209	2	Standard
	Cl	**37**		ug/L			3324914	3262902	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	394751	1	Standard
|	**Cr**	**52**	**-0.013**	ug/L	0.019	145	16311	14995	3	Standard
|	**Cr**	**53**	**-0.004**	ug/L	0.005	124	93	79	10	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.001	10	527	679	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	19446	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.001	54	13	10	10	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.014	52	8	3	50	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	29	34	43	9	KED
|	**Cu**	**65**	**0.007**	ug/L	0.007	97	19	27	32	KED
|	**Zn**	**66**	**0.060**	ug/L	0.028	46	36	53	16	KED
|	**Zn**	**67**	**0.070**	ug/L	0.035	49	4	8	26	KED
⌊	**As**	**75**	**0.005**	ug/L	0.015	270	5	6	38	KED
	Y	**89**		ug/L			210865	195241	1	Standard
	Kr	**83**		ug/L			43	55	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5455	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.010	112	2	3	50	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.006	194	6	4	68	KED
⌈>	**Tb**	**159**		ug/L			480478	441897	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	7	115	248	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0428-01RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:36:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	42631	2	Standard
	Cl	**37**		ug/L			3324914	3444399	3	Standard
⌈>	**Sc**	**45**		ug/L			423672	426178	3	Standard
|	**Cr**	**52**	**0.392**	ug/L	0.015	3	16311	23064	2	Standard
|	**Cr**	**53**	**0.443**	ug/L	0.005	1	93	971	2	Standard
⌊	**Mn**	**55**	**3.009**	ug/L	0.051	1	527	74487	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20143	1	KED
|	**Ni**	**60**	**1.065**	ug/L	0.036	3	13	972	5	KED
|	**Ni**	**62**	**1.083**	ug/L	0.077	7	8	167	5	KED
|	**Cu**	**63**	**0.981**	ug/L	0.020	2	34	2663	1	KED
|	**Cu**	**65**	**1.006**	ug/L	0.056	5	19	1350	4	KED
|	**Zn**	**66**	**1.912**	ug/L	0.101	5	36	714	3	KED
|	**Zn**	**67**	**4.395**	ug/L	0.285	6	4	271	4	KED
⌊	**As**	**75**	**0.518**	ug/L	0.012	2	5	98	3	KED
	Y	**89**		ug/L			210865	199294	5	Standard
	Kr	**83**		ug/L			43	42	9	Standard
⌈>	**In-1**	**115**		ug/L			5860	5564	1	KED
|	**Cd**	**111**	**0.016**	ug/L	0.013	82	2	5	50	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	118	6	7	28	KED
⌈>	**Tb**	**159**		ug/L			480478	456420	3	Standard
⌊	**Pb**	**208**	**0.085**	ug/L	0.004	4	115	3335	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-04
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:40:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43313	0	Standard
	Cl	**37**		ug/L			3324914	3511711	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	408571	1	Standard
|	**Cr**	**52**	**0.315**	ug/L	0.031	9	16311	20852	1	Standard
|	**Cr**	**53**	**0.265**	ug/L	0.007	2	93	593	3	Standard
⌊	**Mn**	**55**	**0.906**	ug/L	0.017	1	527	21852	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	21157	2	KED
|	**Ni**	**60**	**0.142**	ug/L	0.007	4	13	147	6	KED
|	**Ni**	**62**	**0.052**	ug/L	0.065	125	8	16	63	KED
|	**Cu**	**63**	**0.346**	ug/L	0.001	0	34	1010	2	KED
|	**Cu**	**65**	**0.344**	ug/L	0.036	10	19	497	7	KED
|	**Zn**	**66**	**11.768**	ug/L	0.181	1	36	4432	0	KED
|	**Zn**	**67**	**10.259**	ug/L	0.103	1	4	659	1	KED
⌊	**As**	**75**	**0.204**	ug/L	0.020	9	5	44	9	KED
	Y	**89**		ug/L			210865	197090	0	Standard
	Kr	**83**		ug/L			43	48	35	Standard
⌈>	**In-1**	**115**		ug/L			5860	5935	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.003	34	2	0	86	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	53	6	3	30	KED
⌈>	**Tb**	**159**		ug/L			480478	453850	3	Standard
⌊	**Pb**	**208**	**0.013**	ug/L	0.002	12	115	611	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-06
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:44:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44977	2	Standard
	Cl	**37**		ug/L			3324914	3501369	4	Standard
⌈>	**Sc**	**45**		ug/L			423672	421978	2	Standard
|	**Cr**	**52**	**0.360**	ug/L	0.023	6	16311	22285	0	Standard
|	**Cr**	**53**	**0.297**	ug/L	0.019	6	93	676	7	Standard
⌊	**Mn**	**55**	**3.485**	ug/L	0.101	2	527	85322	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	19998	3	KED
|	**Ni**	**60**	**7.257**	ug/L	0.093	1	13	6495	2	KED
|	**Ni**	**62**	**6.752**	ug/L	0.358	5	8	997	7	KED
|	**Cu**	**63**	**0.232**	ug/L	0.011	4	34	650	8	KED
|	**Cu**	**65**	**0.240**	ug/L	0.008	3	19	333	5	KED
|	**Zn**	**66**	**63.310**	ug/L	0.842	1	36	22397	4	KED
|	**Zn**	**67**	**53.537**	ug/L	1.707	3	4	3232	3	KED
⌊	**As**	**75**	**0.161**	ug/L	0.021	13	5	34	14	KED
	Y	**89**		ug/L			210865	205077	2	Standard
	Kr	**83**		ug/L			43	56	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5431	0	KED
|	**Cd**	**111**	**0.007**	ug/L	0.014	191	2	3	78	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	190	6	4	48	KED
⌈>	**Tb**	**159**		ug/L			480478	473744	2	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.000	3	115	591	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-08
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:49:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43123	1	Standard
	Cl	**37**		ug/L			3324914	3441339	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	412563	2	Standard
|	**Cr**	**52**	**0.510**	ug/L	0.034	6	16311	24261	0	Standard
|	**Cr**	**53**	**0.468**	ug/L	0.027	5	93	989	6	Standard
⌊	**Mn**	**55**	**0.793**	ug/L	0.020	2	527	19380	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	20785	3	KED
|	**Ni**	**60**	**0.191**	ug/L	0.011	5	13	191	8	KED
|	**Ni**	**62**	**0.250**	ug/L	0.015	5	8	46	8	KED
|	**Cu**	**63**	**0.724**	ug/L	0.027	3	34	2035	1	KED
|	**Cu**	**65**	**0.738**	ug/L	0.035	4	19	1027	3	KED
|	**Zn**	**66**	**7.272**	ug/L	0.105	1	36	2704	2	KED
|	**Zn**	**67**	**6.462**	ug/L	0.402	6	4	408	2	KED
⌊	**As**	**75**	**0.273**	ug/L	0.007	2	5	56	2	KED
	Y	**89**		ug/L			210865	201406	1	Standard
	Kr	**83**		ug/L			43	43	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5575	5	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	524	2	1	50	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.006	215	6	4	64	KED
⌈>	**Tb**	**159**		ug/L			480478	456293	3	Standard
⌊	**Pb**	**208**	**0.021**	ug/L	0.002	9	115	910	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-10
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:53:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	45626	4	Standard
	Cl	**37**		ug/L			3324914	3490064	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	425522	1	Standard
|	**Cr**	**52**	**0.326**	ug/L	0.044	13	16311	21897	2	Standard
|	**Cr**	**53**	**0.265**	ug/L	0.006	2	93	617	2	Standard
⌊	**Mn**	**55**	**3.196**	ug/L	0.022	0	527	78986	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20100	1	KED
|	**Ni**	**60**	**0.064**	ug/L	0.010	15	13	71	10	KED
|	**Ni**	**62**	**0.028**	ug/L	0.021	72	8	12	24	KED
|	**Cu**	**63**	**0.310**	ug/L	0.027	8	34	860	6	KED
|	**Cu**	**65**	**0.298**	ug/L	0.002	0	19	412	1	KED
|	**Zn**	**66**	**45.064**	ug/L	0.540	1	36	16029	0	KED
|	**Zn**	**67**	**40.680**	ug/L	1.053	2	4	2470	1	KED
⌊	**As**	**75**	**0.179**	ug/L	0.009	5	5	37	4	KED
	Y	**89**		ug/L			210865	213329	1	Standard
	Kr	**83**		ug/L			43	53	18	Standard
⌈>	**In-1**	**115**		ug/L			5860	5514	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	115	2	1	34	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.004	38	6	1	177	KED
⌈>	**Tb**	**159**		ug/L			480478	470093	3	Standard
⌊	**Pb**	**208**	**0.019**	ug/L	0.002	9	115	857	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-12
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:57:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44946	0	Standard
	Cl	**37**		ug/L			3324914	3455689	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	437008	2	Standard
|	**Cr**	**52**	**0.337**	ug/L	0.023	6	16311	22679	2	Standard
|	**Cr**	**53**	**0.326**	ug/L	0.015	4	93	757	5	Standard
⌊	**Mn**	**55**	**0.690**	ug/L	0.017	2	527	17930	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20974	2	KED
|	**Ni**	**60**	**0.102**	ug/L	0.008	7	13	109	7	KED
|	**Ni**	**62**	**0.099**	ug/L	0.035	35	8	23	24	KED
|	**Cu**	**63**	**0.424**	ug/L	0.021	4	34	1218	4	KED
|	**Cu**	**65**	**0.418**	ug/L	0.024	5	19	596	3	KED
|	**Zn**	**66**	**7.903**	ug/L	0.399	5	36	2962	4	KED
|	**Zn**	**67**	**7.218**	ug/L	0.111	1	4	460	1	KED
⌊	**As**	**75**	**0.174**	ug/L	0.027	15	5	38	10	KED
	Y	**89**		ug/L			210865	211915	0	Standard
	Kr	**83**		ug/L			43	51	16	Standard
⌈>	**In-1**	**115**		ug/L			5860	6000	1	KED
|	**Cd**	**111**	**0.007**	ug/L	0.005	65	2	3	25	KED
⌊	**Cd**	**114**	**-0.011**	ug/L	0.002	22	6	0	171	KED
⌈>	**Tb**	**159**		ug/L			480478	479164	4	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.000	0	115	806	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:02:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	45110	1	Standard
	Cl	**37**		ug/L			3324914	3443551	0	Standard
⌈>	**Sc**	**45**		ug/L			423672	417979	1	Standard
|	**Cr**	**52**	**0.375**	ug/L	0.038	10	16311	22342	2	Standard
|	**Cr**	**53**	**0.281**	ug/L	0.011	3	93	637	2	Standard
⌊	**Mn**	**55**	**2.606**	ug/L	0.064	2	527	63354	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	21028	1	KED
|	**Ni**	**60**	**0.074**	ug/L	0.008	10	13	83	8	KED
|	**Ni**	**62**	**0.095**	ug/L	0.010	11	8	22	8	KED
|	**Cu**	**63**	**0.256**	ug/L	0.021	8	34	751	9	KED
|	**Cu**	**65**	**0.234**	ug/L	0.004	1	19	342	2	KED
|	**Zn**	**66**	**33.084**	ug/L	1.015	3	36	12325	4	KED
|	**Zn**	**67**	**29.232**	ug/L	0.562	1	4	1858	2	KED
⌊	**As**	**75**	**0.182**	ug/L	0.034	18	5	39	16	KED
	Y	**89**		ug/L			210865	202459	2	Standard
	Kr	**83**		ug/L			43	46	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5801	3	KED
|	**Cd**	**111**	**0.008**	ug/L	0.008	102	2	3	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.006	1274	6	6	52	KED
⌈>	**Tb**	**159**		ug/L			480478	466298	3	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	6	115	671	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:06:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	43166	5	Standard
	Cl	37		ug/L			3324914	3402239	1	Standard
⌈>	Sc	45		ug/L			423672	405812	2	Standard
|	Cr	52	0.275	ug/L	0.035	12	16311	20079	4	Standard
|	Cr	53	0.251	ug/L	0.008	3	93	562	4	Standard
⌊	Mn	55	2.686	ug/L	0.020	0	527	63381	1	Standard
⌈>	Ge	72		ug/L			20993	20144	1	KED
|	Ni	60	0.073	ug/L	0.011	14	13	79	12	KED
|	Ni	62	0.032	ug/L	0.038	119	8	12	45	KED
|	Cu	63	0.215	ug/L	0.010	4	34	610	3	KED
|	Cu	65	0.233	ug/L	0.024	10	19	326	8	KED
|	Zn	66	32.752	ug/L	0.270	0	36	11686	0	KED
|	Zn	67	29.639	ug/L	0.252	0	4	1805	1	KED
⌊	As	75	0.181	ug/L	0.013	7	5	37	5	KED
	Y	89		ug/L			210865	195397	1	Standard
	Kr	83		ug/L			43	39	22	Standard
⌈>	In-1	115		ug/L			5860	5407	5	KED
|	Cd	111	-0.002	ug/L	0.006	293	2	1	69	KED
⌊	Cd	114	-0.005	ug/L	0.002	47	6	3	30	KED
⌈>	Tb	159		ug/L			480478	454083	3	Standard
⌊	Pb	208	0.018	ug/L	0.001	3	115	792	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:10:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44935	0	Standard
	Cl	**37**		ug/L			3324914	3413687	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	422486	2	Standard
|	**Cr**	**52**	**26.224**	ug/L	0.446	1	16311	457512	2	Standard
|	**Cr**	**53**	**26.167**	ug/L	0.154	0	93	51463	2	Standard
⌊	**Mn**	**55**	**29.351**	ug/L	0.192	0	527	715952	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	20835	2	KED
|	**Ni**	**60**	**27.225**	ug/L	0.470	1	13	25357	3	KED
|	**Ni**	**62**	**26.437**	ug/L	0.757	2	8	4041	2	KED
|	**Cu**	**63**	**26.793**	ug/L	0.609	2	34	74371	2	KED
|	**Cu**	**65**	**27.151**	ug/L	0.331	1	19	37219	2	KED
|	**Zn**	**66**	**116.996**	ug/L	1.777	1	36	43077	0	KED
|	**Zn**	**67**	**101.333**	ug/L	1.295	1	4	6371	0	KED
⌊	**As**	**75**	**25.380**	ug/L	0.158	0	5	4717	1	KED
	Y	**89**		ug/L			210865	204387	5	Standard
	Kr	**83**		ug/L			43	43	4	Standard
⌈>	**In-1**	**115**		ug/L			5860	5640	2	KED
|	**Cd**	**111**	**25.629**	ug/L	0.682	2	2	5237	1	KED
⌊	**Cd**	**114**	**26.041**	ug/L	0.854	3	6	12925	1	KED
⌈>	**Tb**	**159**		ug/L			480478	464989	4	Standard
⌊	**Pb**	**208**	**28.426**	ug/L	0.628	2	115	1097790	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:16:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	47332	0	Standard
	Cl	37		ug/L			3324914	3394381	1	Standard
>	Sc	45		ug/L			423672	552435	1	Standard
	Cr	52	13.580	ug/L	0.004	0	16311	320085	1	Standard
	Cr	53	13.637	ug/L	0.082	0	93	35130	1	Standard
	Mn	55	236.366	ug/L	3.294	1	527	7533823	2	Standard
>	Ge	72		ug/L			20993	20359	0	KED
	Ni	60	16.711	ug/L	0.524	3	13	15211	2	KED
	Ni	62	16.754	ug/L	0.410	2	8	2506	3	KED
	Cu	63	20.630	ug/L	0.269	1	34	55958	0	KED
	Cu	65	21.249	ug/L	0.423	1	19	28469	2	KED
	Zn	66	81.556	ug/L	0.785	0	36	29359	1	KED
	Zn	67	79.298	ug/L	2.556	3	4	4873	2	KED
	As	75	2.533	ug/L	0.089	3	5	465	2	KED
	Y	89		ug/L			210865	434604	1	Standard
	Kr	83		ug/L			43	134	13	Standard
>	In-1	115		ug/L			5860	5604	1	KED
	Cd	111	0.072	ug/L	0.017	23	2	16	21	KED
	Cd	114	0.094	ug/L	0.017	17	6	52	16	KED
>	Tb	159		ug/L			480478	483462	3	Standard
	Pb	208	13.761	ug/L	0.427	3	115	552558	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:23:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31957	3	Standard
	Cl	**37**		ug/L			3324914	3585631	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	409489	0	Standard
|	**Cr**	**52**	**50.693**	ug/L	0.190	0	16311	842585	0	Standard
|	**Cr**	**53**	**50.544**	ug/L	0.742	1	93	96273	2	Standard
⌊	**Mn**	**55**	**51.688**	ug/L	0.528	1	527	1221587	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20128	1	KED
|	**Ni**	**60**	**50.808**	ug/L	1.186	2	13	45692	1	KED
|	**Ni**	**62**	**51.630**	ug/L	1.221	2	8	7618	1	KED
|	**Cu**	**63**	**50.907**	ug/L	0.634	1	34	136481	1	KED
|	**Cu**	**65**	**51.460**	ug/L	0.862	1	19	68124	1	KED
|	**Zn**	**66**	**52.014**	ug/L	1.795	3	36	18519	2	KED
|	**Zn**	**67**	**50.908**	ug/L	1.421	2	4	3094	1	KED
⌊	**As**	**75**	**50.147**	ug/L	1.061	2	5	8998	0	KED
	Y	**89**		ug/L			210865	198783	2	Standard
	Kr	**83**		ug/L			43	50	18	Standard
⌈>	**In-1**	**115**		ug/L			5860	5383	1	KED
|	**Cd**	**111**	**51.761**	ug/L	1.423	2	2	10094	1	KED
⌊	**Cd**	**114**	**51.677**	ug/L	0.549	1	6	24486	0	KED
⌈>	**Tb**	**159**		ug/L			480478	464608	3	Standard
⌊	**Pb**	**208**	**54.638**	ug/L	1.841	3	115	2107830	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:30:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30927	3	Standard
	Cl	**37**		ug/L			3324914	3324282	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	419721	2	Standard
|	**Cr**	**52**	**-0.028**	ug/L	0.018	64	16311	15685	0	Standard
|	**Cr**	**53**	**-0.005**	ug/L	0.003	61	93	81	10	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.000	12	527	611	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	20536	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.008	463	13	12	55	KED
|	**Ni**	**62**	**-0.024**	ug/L	0.020	84	8	4	65	KED
|	**Cu**	**63**	**0.006**	ug/L	0.005	88	34	48	29	KED
|	**Cu**	**65**	**0.001**	ug/L	0.006	529	19	20	41	KED
|	**Zn**	**66**	**0.058**	ug/L	0.016	27	36	56	10	KED
|	**Zn**	**67**	**0.074**	ug/L	0.068	91	4	8	44	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.009	984	5	5	28	KED
	Y	**89**		ug/L			210865	198820	1	Standard
	Kr	**83**		ug/L			43	48	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5658	2	KED
|	**Cd**	**111**	**0.005**	ug/L	0.008	147	2	3	45	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.010	291	6	4	112	KED
⌈>	**Tb**	**159**		ug/L			480478	462212	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	6	115	255	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:35:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				33587	1	Standard
	Cl	**37**		ug/L				3318464	1	Standard
⎡>	**Sc**	**45**		ug/L				408513	1	Standard
⎢	**Cr**	**52**		ug/L				15747	1	Standard
⎢	**Cr**	**53**		ug/L				81	12	Standard
⎣	**Mn**	**55**		ug/L				555	5	Standard
⎡>	**Ge**	**72**		ug/L				19427	2	KED
⎢	**Ni**	**60**		ug/L				13	24	KED
⎢	**Ni**	**62**		ug/L				8	35	KED
⎢	**Cu**	**63**		ug/L				28	30	KED
⎢	**Cu**	**65**		ug/L				17	48	KED
⎢	**Zn**	**66**		ug/L				33	6	KED
⎢	**Zn**	**67**		ug/L				3	50	KED
⎣	**As**	**75**		ug/L				5	5	KED
	Y	**89**		ug/L				199932	0	Standard
	Kr	**83**		ug/L				55	34	Standard
⎡>	**In-1**	**115**		ug/L				5415	1	KED
⎢	**Cd**	**111**		ug/L				1	132	KED
⎣	**Cd**	**114**		ug/L				1	100	KED
⎡>	**Tb**	**159**		ug/L				457409	3	Standard
⎣	**Pb**	**208**		ug/L				92	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:39:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30970	3	Standard
	Cl	**37**		ug/L			3318464	3596620	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	394965	1	Standard
|	**Cr**	**52**	**51.509**	ug/L	0.397	0	15747	825564	1	Standard
|	**Cr**	**53**	**51.719**	ug/L	0.617	1	81	94996	0	Standard
⌊	**Mn**	**55**	**51.863**	ug/L	0.740	1	555	1182141	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20111	0	KED
|	**Ni**	**60**	**51.495**	ug/L	0.793	1	13	46277	0	KED
|	**Ni**	**62**	**49.693**	ug/L	1.333	2	8	7328	2	KED
|	**Cu**	**63**	**49.772**	ug/L	0.361	0	28	133322	0	KED
|	**Cu**	**65**	**51.551**	ug/L	0.455	0	17	68194	0	KED
|	**Zn**	**66**	**49.789**	ug/L	0.975	1	33	17718	2	KED
|	**Zn**	**67**	**50.902**	ug/L	2.069	4	3	3091	3	KED
⌊	**As**	**75**	**49.446**	ug/L	0.718	1	5	8866	0	KED
	Y	**89**		ug/L			199932	189958	1	Standard
	Kr	**83**		ug/L			55	65	3	Standard
⌈>	**In-1**	**115**		ug/L			5415	5403	2	KED
|	**Cd**	**111**	**50.937**	ug/L	1.476	2	1	9967	0	KED
⌊	**Cd**	**114**	**51.669**	ug/L	1.325	2	1	24561	0	KED
⌈>	**Tb**	**159**		ug/L			457409	448132	1	Standard
⌊	**Pb**	**208**	**55.044**	ug/L	1.318	2	92	2049277	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:46:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31277	1	Standard
	Cl	**37**		ug/L			3318464	3347711	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	407725	2	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.028	283	15747	15562	4	Standard
|	**Cr**	**53**	**0.006**	ug/L	0.003	57	81	92	8	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	31	555	639	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	20045	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.012	990	13	12	82	KED
|	**Ni**	**62**	**-0.023**	ug/L	0.027	115	8	5	78	KED
|	**Cu**	**63**	**0.010**	ug/L	0.005	52	28	57	26	KED
|	**Cu**	**65**	**0.007**	ug/L	0.014	195	17	27	68	KED
|	**Zn**	**66**	**0.065**	ug/L	0.014	21	33	57	9	KED
|	**Zn**	**67**	**0.177**	ug/L	0.113	63	3	14	45	KED
⌊	**As**	**75**	**0.005**	ug/L	0.014	266	5	6	40	KED
	Y	**89**		ug/L			199932	200193	1	Standard
	Kr	**83**		ug/L			55	40	26	Standard
⌈>	**In-1**	**115**		ug/L			5415	5910	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.003	38	1	0	86	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	663	1	2	96	KED
⌈>	**Tb**	**159**		ug/L			457409	454753	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	15	92	238	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:51:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46306	2	Standard
	Cl	**37**		ug/L			3318464	3350138	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	427778	3	Standard
|	**Cr**	**52**	**0.369**	ug/L	0.027	7	15747	22773	1	Standard
|	**Cr**	**53**	**0.309**	ug/L	0.016	5	81	697	1	Standard
⌊	**Mn**	**55**	**3.057**	ug/L	0.038	1	555	76004	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20924	1	KED
|	**Ni**	**60**	**0.076**	ug/L	0.011	14	13	85	11	KED
|	**Ni**	**62**	**0.083**	ug/L	0.025	29	8	21	18	KED
|	**Cu**	**63**	**0.332**	ug/L	0.020	5	28	956	5	KED
|	**Cu**	**65**	**0.354**	ug/L	0.027	7	17	506	7	KED
|	**Zn**	**66**	**38.381**	ug/L	1.158	3	33	14219	3	KED
|	**Zn**	**67**	**32.496**	ug/L	0.686	2	3	2054	1	KED
⌊	**As**	**75**	**0.233**	ug/L	0.008	3	5	48	2	KED
	Y	**89**		ug/L			199932	208192	3	Standard
	Kr	**83**		ug/L			55	46	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5647	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.009	1856	1	1	100	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.017	155	1	7	115	KED
⌈>	**Tb**	**159**		ug/L			457409	477111	5	Standard
⌊	**Pb**	**208**	**0.077**	ug/L	0.005	6	92	3142	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-03
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:55:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46846	4	Standard
	Cl	**37**		ug/L			3318464	3317272	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	432261	2	Standard
|	**Cr**	**52**	**0.379**	ug/L	0.031	8	15747	23190	1	Standard
|	**Cr**	**53**	**0.309**	ug/L	0.011	3	81	706	3	Standard
⌊	**Mn**	**55**	**1.417**	ug/L	0.041	2	555	35926	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	19961	1	KED
|	**Ni**	**60**	**0.170**	ug/L	0.007	3	13	165	2	KED
|	**Ni**	**62**	**0.129**	ug/L	0.039	30	8	27	21	KED
|	**Cu**	**63**	**0.436**	ug/L	0.019	4	28	1188	2	KED
|	**Cu**	**65**	**0.457**	ug/L	0.017	3	17	617	1	KED
|	**Zn**	**66**	**13.524**	ug/L	0.232	1	33	4802	2	KED
|	**Zn**	**67**	**11.651**	ug/L	0.589	5	3	705	5	KED
⌊	**As**	**75**	**0.211**	ug/L	0.039	18	5	42	14	KED
	Y	**89**		ug/L			199932	208898	2	Standard
	Kr	**83**		ug/L			55	55	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5739	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.009	92	1	4	48	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	145	1	3	57	KED
⌈>	**Tb**	**159**		ug/L			457409	477446	5	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.002	8	92	885	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-05
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:00:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	44371	1	Standard
	Cl	**37**		ug/L			3318464	3429934	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	428994	1	Standard
|	**Cr**	**52**	**0.417**	ug/L	0.019	4	15747	23668	1	Standard
|	**Cr**	**53**	**0.383**	ug/L	0.006	1	81	848	2	Standard
⌊	**Mn**	**55**	**3.518**	ug/L	0.061	1	555	87646	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20983	1	KED
|	**Ni**	**60**	**0.130**	ug/L	0.028	21	13	136	20	KED
|	**Ni**	**62**	**0.099**	ug/L	0.017	16	8	24	12	KED
|	**Cu**	**63**	**0.275**	ug/L	0.035	12	28	800	11	KED
|	**Cu**	**65**	**0.272**	ug/L	0.012	4	17	393	4	KED
|	**Zn**	**66**	**70.741**	ug/L	1.695	2	33	26245	1	KED
|	**Zn**	**67**	**60.426**	ug/L	1.594	2	3	3827	2	KED
⌊	**As**	**75**	**0.153**	ug/L	0.036	23	5	34	19	KED
	Y	**89**		ug/L			199932	208047	1	Standard
	Kr	**83**		ug/L			55	48	8	Standard
⌈>	**In-1**	**115**		ug/L			5415	5847	3	KED
|	**Cd**	**111**	**0.014**	ug/L	0.010	68	1	5	39	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.010	129	1	6	90	KED
⌈>	**Tb**	**159**		ug/L			457409	476371	3	Standard
⌊	**Pb**	**208**	**0.042**	ug/L	0.003	6	92	1751	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-07
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:04:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	44292	0	Standard
	Cl	**37**		ug/L			3318464	3326408	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	417133	2	Standard
|	**Cr**	**52**	**0.389**	ug/L	0.034	8	15747	22542	1	Standard
|	**Cr**	**53**	**0.356**	ug/L	0.018	5	81	773	4	Standard
⌊	**Mn**	**55**	**1.427**	ug/L	0.011	0	555	34909	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20974	1	KED
|	**Ni**	**60**	**0.234**	ug/L	0.034	14	13	233	12	KED
|	**Ni**	**62**	**0.182**	ug/L	0.022	12	8	36	7	KED
|	**Cu**	**63**	**0.647**	ug/L	0.016	2	28	1837	1	KED
|	**Cu**	**65**	**0.645**	ug/L	0.013	2	17	907	0	KED
|	**Zn**	**66**	**6.556**	ug/L	0.285	4	33	2463	2	KED
|	**Zn**	**67**	**5.972**	ug/L	0.570	9	3	381	8	KED
⌊	**As**	**75**	**0.237**	ug/L	0.013	5	5	49	4	KED
	Y	**89**		ug/L			199932	208530	1	Standard
	Kr	**83**		ug/L			55	35	40	Standard
⌈>	**In-1**	**115**		ug/L			5415	5857	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.010	465	1	1	124	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	141	1	3	70	KED
⌈>	**Tb**	**159**		ug/L			457409	465131	3	Standard
⌊	**Pb**	**208**	**0.024**	ug/L	0.001	3	92	1003	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-09
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:08:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	42517	1	Standard
	Cl	**37**		ug/L			3318464	3268332	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	413982	2	Standard
|	**Cr**	**52**	**0.391**	ug/L	0.010	2	15747	22402	2	Standard
|	**Cr**	**53**	**0.378**	ug/L	0.004	1	81	810	2	Standard
⌊	**Mn**	**55**	**3.774**	ug/L	0.036	0	555	90700	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20046	1	KED
|	**Ni**	**60**	**0.089**	ug/L	0.013	14	13	93	13	KED
|	**Ni**	**62**	**0.050**	ug/L	0.027	53	8	15	24	KED
|	**Cu**	**63**	**0.268**	ug/L	0.015	5	28	743	3	KED
|	**Cu**	**65**	**0.269**	ug/L	0.023	8	17	372	7	KED
|	**Zn**	**66**	**52.618**	ug/L	1.257	2	33	18658	1	KED
|	**Zn**	**67**	**47.176**	ug/L	1.333	2	3	2857	4	KED
⌊	**As**	**75**	**0.166**	ug/L	0.017	10	5	34	10	KED
	Y	**89**		ug/L			199932	204081	4	Standard
	Kr	**83**		ug/L			55	39	7	Standard
⌈>	**In-1**	**115**		ug/L			5415	5718	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.007	326	1	1	91	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.007	107	1	5	66	KED
⌈>	**Tb**	**159**		ug/L			457409	454421	4	Standard
⌊	**Pb**	**208**	**0.043**	ug/L	0.002	3	92	1718	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-11
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:13:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	45620	3	Standard
	Cl	**37**		ug/L			3318464	3260661	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	423807	2	Standard
|	**Cr**	**52**	**0.383**	ug/L	0.051	13	15747	22795	2	Standard
|	**Cr**	**53**	**0.354**	ug/L	0.030	8	81	781	4	Standard
⌊	**Mn**	**55**	**1.233**	ug/L	0.013	1	555	30721	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20930	5	KED
|	**Ni**	**60**	**0.134**	ug/L	0.015	11	13	139	10	KED
|	**Ni**	**62**	**0.124**	ug/L	0.033	26	8	27	20	KED
|	**Cu**	**63**	**0.382**	ug/L	0.016	4	28	1092	2	KED
|	**Cu**	**65**	**0.404**	ug/L	0.017	4	17	574	9	KED
|	**Zn**	**66**	**8.639**	ug/L	0.140	1	33	3227	3	KED
|	**Zn**	**67**	**7.793**	ug/L	0.585	7	3	495	5	KED
⌊	**As**	**75**	**0.173**	ug/L	0.024	13	5	37	10	KED
	Y	**89**		ug/L			199932	205177	2	Standard
	Kr	**83**		ug/L			55	42	38	Standard
⌈>	**In-1**	**115**		ug/L			5415	5979	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	109	1	1	34	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	62	1	0	154	KED
⌈>	**Tb**	**159**		ug/L			457409	474826	3	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.001	6	92	900	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0612-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:17:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	57890	1	Standard
	Cl	37		ug/L			3318464	3606158	2	Standard
>	Sc	45		ug/L			408513	473375	2	Standard
	Cr	52	1.614	ug/L	0.067	4	15747	48662	0	Standard
	Cr	53	1.814	ug/L	0.025	1	81	4083	2	Standard
	Mn	55	235.781	ug/L	4.900	2	555	6437196	0	Standard
>	Ge	72		ug/L			19427	20609	0	KED
	Ni	60	3.552	ug/L	0.325	9	13	3285	9	KED
	Ni	62	3.715	ug/L	0.144	3	8	569	3	KED
	Cu	63	4.040	ug/L	0.058	1	28	11115	0	KED
	Cu	65	4.237	ug/L	0.092	2	17	5759	2	KED
	Zn	66	7.227	ug/L	0.044	0	33	2666	1	KED
	Zn	67	9.392	ug/L	0.362	3	3	587	4	KED
	As	75	0.432	ug/L	0.039	8	5	84	8	KED
	Y	89		ug/L			199932	224064	2	Standard
	Kr	83		ug/L			55	41	19	Standard
>	In-1	115		ug/L			5415	5487	2	KED
	Cd	111	0.280	ug/L	0.029	10	1	57	8	KED
	Cd	114	0.268	ug/L	0.046	17	1	131	15	KED
>	Tb	159		ug/L			457409	486470	3	Standard
	Pb	208	0.683	ug/L	0.022	3	92	27689	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:22:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	54314	0	Standard
	Cl	37		ug/L			3318464	3693854	0	Standard
⌈>	Sc	45		ug/L			408513	458604	2	Standard
|	Cr	52	1.555	ug/L	0.067	4	15747	46059	2	Standard
|	Cr	53	1.708	ug/L	0.052	3	81	3728	0	Standard
⌊	Mn	55	229.361	ug/L	5.344	2	555	6066297	1	Standard
⌈>	Ge	72		ug/L			19427	19572	2	KED
|	Ni	60	3.456	ug/L	0.068	1	13	3035	2	KED
|	Ni	62	3.407	ug/L	0.142	4	8	496	3	KED
|	Cu	63	4.107	ug/L	0.103	2	28	10729	0	KED
|	Cu	65	4.106	ug/L	0.126	3	17	5303	4	KED
|	Zn	66	6.959	ug/L	0.240	3	33	2439	4	KED
|	Zn	67	9.027	ug/L	0.310	3	3	536	1	KED
⌊	As	75	0.454	ug/L	0.019	4	5	84	4	KED
	Y	89		ug/L			199932	208496	2	Standard
	Kr	83		ug/L			55	49	20	Standard
⌈>	In-1	115		ug/L			5415	5597	1	KED
|	Cd	111	0.310	ug/L	0.018	5	1	64	6	KED
⌊	Cd	114	0.283	ug/L	0.017	5	1	141	6	KED
⌈>	Tb	159		ug/L			457409	466932	4	Standard
⌊	Pb	208	0.661	ug/L	0.018	2	92	25707	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:28:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			33587	48512	2	Standard
	Cl		37		ug/L			3318464	3728660	0	Standard
⌈>	Sc		45		ug/L			408513	452065	2	Standard
|	Cr		52	25.566	ug/L	0.743	2	15747	477531	0	Standard
|	Cr		53	25.252	ug/L	0.699	2	81	53110	0	Standard
⌊	Mn	STL	55	253.723	ug/L	2.833	1	555	6616659	2	Standard
⌈>	Ge		72		ug/L			19427	19338	1	KED
|	Ni		60	31.412	ug/L	0.405	1	13	27147	0	KED
|	Ni		62	31.206	ug/L	0.733	2	8	4429	3	KED
|	Cu		63	30.265	ug/L	0.252	0	28	77959	0	KED
|	Cu		65	30.490	ug/L	0.053	0	17	38789	1	KED
|	Zn		66	84.055	ug/L	2.072	2	33	28736	2	KED
|	Zn		67	81.619	ug/L	1.242	1	3	4763	0	KED
⌊	As		75	25.683	ug/L	0.180	0	5	4430	0	KED
	Y		89		ug/L			199932	212169	0	Standard
	Kr		83		ug/L			55	62	16	Standard
⌈>	In-1		115		ug/L			5415	5409	1	KED
|	Cd		111	25.302	ug/L	0.634	2	1	4958	0	KED
⌊	Cd		114	25.162	ug/L	0.568	2	1	11977	0	KED
⌈>	Tb		159		ug/L			457409	465004	3	Standard
⌊	Pb		208	28.627	ug/L	1.065	3	92	1105250	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:32:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31245	3	Standard
	Cl	**37**		ug/L			3318464	3504213	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	393571	6	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.015	71	15747	15493	4	Standard
|	**Cr**	**53**	**0.024**	ug/L	0.012	50	81	120	13	Standard
⌊	**Mn**	**55**	**0.021**	ug/L	0.005	21	555	1014	12	Standard
⌈>	**Ge**	**72**		ug/L			19427	20139	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	57	13	8	32	KED
|	**Ni**	**62**	**-0.019**	ug/L	0.001	2	8	5	0	KED
|	**Cu**	**63**	**0.005**	ug/L	0.000	4	28	41	0	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	80	17	13	20	KED
|	**Zn**	**66**	**0.009**	ug/L	0.004	44	33	38	5	KED
|	**Zn**	**67**	**-0.002**	ug/L	0.054	2197	3	3	86	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.008	170	5	4	32	KED
	Y	**89**		ug/L			199932	191989	2	Standard
	Kr	**83**		ug/L			55	42	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5524	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	168	1	1	34	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	144	1	1	90	KED
⌈>	**Tb**	**159**		ug/L			457409	446015	6	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	17	92	279	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:36:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	33647	1	Standard
	Cl	**37**		ug/L			3318464	3707357	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	435452	1	Standard
⎢	**Cr**	**52**	**50.081**	ug/L	0.953	1	15747	885200	0	Standard
⎢	**Cr**	**53**	**50.410**	ug/L	0.762	1	81	102075	1	Standard
⎣	**Mn**	**55**	**51.436**	ug/L	0.123	0	555	1292705	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	20607	4	KED
⎢	**Ni**	**60**	**51.134**	ug/L	0.755	1	13	47074	3	KED
⎢	**Ni**	**62**	**51.624**	ug/L	1.291	2	8	7796	2	KED
⎢	**Cu**	**63**	**51.331**	ug/L	0.752	1	28	140827	3	KED
⎢	**Cu**	**65**	**51.481**	ug/L	1.532	2	17	69742	3	KED
⎢	**Zn**	**66**	**51.087**	ug/L	0.927	1	33	18618	2	KED
⎢	**Zn**	**67**	**51.512**	ug/L	2.299	4	3	3201	1	KED
⎣	**As**	**75**	**50.374**	ug/L	0.634	1	5	9252	3	KED
	Y	**89**		ug/L			199932	211392	2	Standard
	Kr	**83**		ug/L			55	59	8	Standard
⎡>	**In-1**	**115**		ug/L			5415	5800	1	KED
⎢	**Cd**	**111**	**51.708**	ug/L	0.765	1	1	10866	0	KED
⎣	**Cd**	**114**	**51.413**	ug/L	0.327	0	1	26249	2	KED
⎡>	**Tb**	**159**		ug/L			457409	489522	3	Standard
⎣	**Pb**	**208**	**54.269**	ug/L	1.446	2	92	2206418	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:43:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30478	2	Standard
	Cl	**37**		ug/L			3318464	3570448	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	400324	2	Standard
|	**Cr**	**52**	**0.018**	ug/L	0.023	132	15747	15709	2	Standard
|	**Cr**	**53**	**0.009**	ug/L	0.004	38	81	96	6	Standard
⌊	**Mn**	**55**	**0.005**	ug/L	0.004	70	555	666	13	Standard
⌈>	**Ge**	**72**		ug/L			19427	20049	2	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	2477	13	13	28	KED
|	**Ni**	**62**	**-0.028**	ug/L	0.014	51	8	4	49	KED
|	**Cu**	**63**	**0.005**	ug/L	0.002	45	28	43	13	KED
|	**Cu**	**65**	**0.007**	ug/L	0.004	61	17	26	21	KED
|	**Zn**	**66**	**0.094**	ug/L	0.028	29	33	67	13	KED
|	**Zn**	**67**	**0.082**	ug/L	0.102	124	3	8	68	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.010	4987	5	5	36	KED
	Y	**89**		ug/L			199932	193790	1	Standard
	Kr	**83**		ug/L			55	43	24	Standard
⌈>	**In-1**	**115**		ug/L			5415	5596	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	79	1	1	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.004	2086	1	1	107	KED
⌈>	**Tb**	**159**		ug/L			457409	448177	4	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.004	62	92	317	41	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0010-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:48:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43568	5	Standard
	Cl	**37**		ug/L			3318464	3501110	4	Standard
⌈>	**Sc**	**45**		ug/L			408513	394796	11	Standard
|	**Cr**	**52**	**0.233**	ug/L	0.079	34	15747	18788	4	Standard
|	**Cr**	**53**	**0.250**	ug/L	0.025	9	81	533	3	Standard
⌊	**Mn**	**55**	**2.655**	ug/L	0.126	4	555	60792	6	Standard
⌈>	**Ge**	**72**		ug/L			19427	19575	1	KED
|	**Ni**	**60**	**0.144**	ug/L	0.004	2	13	139	2	KED
|	**Ni**	**62**	**0.101**	ug/L	0.022	21	8	22	14	KED
|	**Cu**	**63**	**1.064**	ug/L	0.041	3	28	2803	4	KED
|	**Cu**	**65**	**1.064**	ug/L	0.043	4	17	1386	4	KED
|	**Zn**	**66**	**17.834**	ug/L	0.454	2	33	6198	1	KED
|	**Zn**	**67**	**15.570**	ug/L	0.963	6	3	923	6	KED
⌊	**As**	**75**	**0.094**	ug/L	0.015	15	5	21	11	KED
	Y	**89**		ug/L			199932	194758	8	Standard
	Kr	**83**		ug/L			55	43	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	5410	1	KED
|	**Cd**	**111**	**0.031**	ug/L	0.017	54	1	7	42	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.010	30	1	17	27	KED
⌈>	**Tb**	**159**		ug/L			457409	441334	12	Standard
⌊	**Pb**	**208**	**0.124**	ug/L	0.009	6	92	4600	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0013-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:52:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40764	4	Standard
	Cl	**37**		ug/L			3318464	4278838	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	442684	2	Standard
|	**Cr**	**52**	**1.525**	ug/L	0.047	3	15747	43948	0	Standard
|	**Cr**	**53**	**2.149**	ug/L	0.050	2	81	4507	1	Standard
⌊	**Mn**	**55**	**7.713**	ug/L	0.072	0	555	197603	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20179	1	KED
|	**Ni**	**60**	**0.875**	ug/L	0.042	4	13	802	3	KED
|	**Ni**	**62**	**0.835**	ug/L	0.044	5	8	132	5	KED
|	**Cu**	**63**	**4.024**	ug/L	0.175	4	28	10835	2	KED
|	**Cu**	**65**	**4.146**	ug/L	0.092	2	17	5519	2	KED
|	**Zn**	**66**	**35.740**	ug/L	1.453	4	33	12767	3	KED
|	**Zn**	**67**	**34.458**	ug/L	1.173	3	3	2100	1	KED
⌊	**As**	**75**	**0.583**	ug/L	0.019	3	5	110	4	KED
	Y	**89**		ug/L			199932	212904	0	Standard
	Kr	**83**		ug/L			55	51	25	Standard
⌈>	**In-1**	**115**		ug/L			5415	5491	0	KED
|	**Cd**	**111**	**0.037**	ug/L	0.010	28	1	9	21	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.024	56	1	22	51	KED
⌈>	**Tb**	**159**		ug/L			457409	480657	4	Standard
⌊	**Pb**	**208**	**1.292**	ug/L	0.059	4	92	51630	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0016-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:56:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	112973	3	Standard
	Cl	**37**		ug/L			3318464	3436786	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	438051	2	Standard
|	**Cr**	**52**	**0.757**	ug/L	0.017	2	15747	30093	2	Standard
|	**Cr**	**53**	**0.633**	ug/L	0.018	2	81	1375	3	Standard
⌊	**Mn**	**55**	**137.991**	ug/L	2.605	1	555	3486652	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21068	2	KED
|	**Ni**	**60**	**22.080**	ug/L	0.986	4	13	20782	2	KED
|	**Ni**	**62**	**21.694**	ug/L	0.462	2	8	3356	2	KED
|	**Cu**	**63**	**6.877**	ug/L	0.269	3	28	19311	1	KED
|	**Cu**	**65**	**6.946**	ug/L	0.280	4	17	9635	1	KED
|	**Zn**	**66**	**2.584**	ug/L	0.087	3	33	997	2	KED
|	**Zn**	**67**	**2.439**	ug/L	0.281	11	3	159	13	KED
⌊	**As**	**75**	**0.432**	ug/L	0.023	5	5	86	2	KED
	Y	**89**		ug/L			199932	204220	0	Standard
	Kr	**83**		ug/L			55	43	19	Standard
⌈>	**In-1**	**115**		ug/L			5415	5520	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.010	160	1	3	62	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	136	1	4	82	KED
⌈>	**Tb**	**159**		ug/L			457409	463321	4	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.002	10	92	930	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0016-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:01:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	62082	1	Standard
	Cl	**37**		ug/L			3318464	3812204	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	426637	2	Standard
|	**Cr**	**52**	**1.955**	ug/L	0.045	2	15747	49656	2	Standard
|	**Cr**	**53**	**2.166**	ug/L	0.032	1	81	4377	2	Standard
⌊	**Mn**	**55**	**244.340**	ug/L	2.654	1	555	6013502	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21093	1	KED
|	**Ni**	**60**	**3.642**	ug/L	0.207	5	13	3443	3	KED
|	**Ni**	**62**	**3.751**	ug/L	0.088	2	8	588	3	KED
|	**Cu**	**63**	**17.431**	ug/L	0.298	1	28	48980	0	KED
|	**Cu**	**65**	**17.903**	ug/L	0.199	1	17	24848	1	KED
|	**Zn**	**66**	**1001.272**	ug/L	14.385	1	33	372960	0	KED
|	**Zn**	**67**	**872.911**	ug/L	18.856	2	3	55528	1	KED
⌊	**As**	**75**	**0.516**	ug/L	0.018	3	5	102	1	KED
	Y	**89**		ug/L			199932	212826	2	Standard
	Kr	**83**		ug/L			55	54	11	Standard
⌈>	**In-1**	**115**		ug/L			5415	5979	0	KED
|	**Cd**	**111**	**0.122**	ug/L	0.025	20	1	28	20	KED
⌊	**Cd**	**114**	**0.119**	ug/L	0.007	5	1	64	4	KED
⌈>	**Tb**	**159**		ug/L			457409	470457	4	Standard
⌊	**Pb**	**208**	**1.411**	ug/L	0.063	4	92	55174	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0522-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:05:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	41811	0	Standard
	Cl	**37**		ug/L			3318464	3669736	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	422121	3	Standard
|	**Cr**	**52**	**1.264**	ug/L	0.080	6	15747	37501	0	Standard
|	**Cr**	**53**	**1.465**	ug/L	0.055	3	81	2956	0	Standard
⌊	**Mn**	**55**	**14.832**	ug/L	0.130	0	555	361686	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20665	1	KED
|	**Ni**	**60**	**0.888**	ug/L	0.101	11	13	833	10	KED
|	**Ni**	**62**	**0.865**	ug/L	0.056	6	8	139	6	KED
|	**Cu**	**63**	**5.761**	ug/L	0.141	2	28	15883	2	KED
|	**Cu**	**65**	**5.782**	ug/L	0.155	2	17	7873	1	KED
|	**Zn**	**66**	**82.513**	ug/L	3.369	4	33	30136	2	KED
|	**Zn**	**67**	**75.416**	ug/L	2.102	2	3	4703	1	KED
⌊	**As**	**75**	**0.226**	ug/L	0.050	21	5	46	18	KED
	Y	**89**		ug/L			199932	205975	1	Standard
	Kr	**83**		ug/L			55	49	37	Standard
⌈>	**In-1**	**115**		ug/L			5415	5674	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.007	14	1	12	11	KED
⌊	**Cd**	**114**	**0.047**	ug/L	0.004	9	1	25	7	KED
⌈>	**Tb**	**159**		ug/L			457409	471462	4	Standard
⌊	**Pb**	**208**	**1.899**	ug/L	0.082	4	92	74386	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0536-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:10:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	73362	1	Standard
	Cl	**37**		ug/L			3318464	3547350	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	470934	2	Standard
|	**Cr**	**52**	**2.684**	ug/L	0.054	2	15747	68510	3	Standard
|	**Cr**	**53**	**2.756**	ug/L	0.007	0	81	6125	2	Standard
⌊	**Mn**	**55**	**61.284**	ug/L	1.402	2	555	1665396	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20630	2	KED
|	**Ni**	**60**	**1.355**	ug/L	0.091	6	13	1263	7	KED
|	**Ni**	**62**	**1.282**	ug/L	0.068	5	8	202	5	KED
|	**Cu**	**63**	**12.971**	ug/L	0.255	1	28	35655	0	KED
|	**Cu**	**65**	**12.556**	ug/L	0.187	1	17	17054	3	KED
|	**Zn**	**66**	**378.690**	ug/L	9.701	2	33	137965	1	KED
|	**Zn**	**67**	**338.156**	ug/L	1.487	0	3	21045	1	KED
⌊	**As**	**75**	**2.786**	ug/L	0.023	0	5	517	1	KED
	Y	**89**		ug/L			199932	234872	2	Standard
	Kr	**83**		ug/L			55	46	28	Standard
⌈>	**In-1**	**115**		ug/L			5415	5776	2	KED
|	**Cd**	**111**	**0.177**	ug/L	0.017	9	1	39	11	KED
⌊	**Cd**	**114**	**0.169**	ug/L	0.030	17	1	87	17	KED
⌈>	**Tb**	**159**		ug/L			457409	489149	4	Standard
⌊	**Pb**	**208**	**2.696**	ug/L	0.105	3	92	109586	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0536-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:14:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	72363	3	Standard
	Cl	**37**		ug/L			3318464	44785837	2	Standard
>	**Sc**	**45**		ug/L			408513	359597	2	Standard
	Cr	**52**	**3.344**	ug/L	0.117	3	15747	61729	1	Standard
	Cr	**53**	**23.770**	ug/L	0.726	3	81	39771	0	Standard
	Mn	**55**	**92.855**	ug/L	2.112	2	555	1926060	1	Standard
>	**Ge**	**72**		ug/L			19427	15011	1	KED
	Ni	**60**	**2.392**	ug/L	0.089	3	13	1614	3	KED
	Ni	**62**	**3.682**	ug/L	0.185	5	8	411	6	KED
	Cu	**63**	**10.188**	ug/L	0.137	1	28	20384	0	KED
	Cu	**65**	**10.045**	ug/L	0.129	1	17	9928	1	KED
	Zn	**66**	**280.800**	ug/L	1.862	0	33	74465	0	KED
	Zn	**67**	**249.620**	ug/L	5.261	2	3	11303	0	KED
	As	**75**	**1.175**	ug/L	0.026	2	5	161	0	KED
	Y	**89**		ug/L			199932	184503	1	Standard
	Kr	**83**		ug/L			55	2614	2	Standard
>	**In-1**	**115**		ug/L			5415	4193	1	KED
	Cd	**111**	**0.313**	ug/L	0.094	30	1	48	27	KED
	Cd	**114**	**0.206**	ug/L	0.047	23	1	77	21	KED
>	**Tb**	**159**		ug/L			457409	427012	2	Standard
	Pb	**208**	**3.212**	ug/L	0.059	1	92	114017	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-DUP1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, January 10, 2023 07:18:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46050	5	Standard
	Cl	**37**		ug/L			3318464	9472557	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	435361	1	Standard
|	**Cr**	**52**	**17.479**	ug/L	0.342	1	15747	319825	0	Standard
|	**Cr**	**53**	**24.854**	ug/L	0.557	2	81	50357	0	Standard
⌊	**Mn**	**55**	**5.347**	ug/L	0.027	0	555	134867	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20069	1	KED
|	**Ni**	**60**	**2.259**	ug/L	0.040	1	13	2038	0	KED
|	**Ni**	**62**	**2.565**	ug/L	0.192	7	8	385	6	KED
|	**Cu**	**63**	**24.786**	ug/L	0.410	1	28	66263	1	KED
|	**Cu**	**65**	**25.388**	ug/L	0.459	1	17	33518	0	KED
|	**Zn**	**66**	**28.456**	ug/L	0.652	2	33	10118	0	KED
|	**Zn**	**67**	**24.653**	ug/L	0.449	1	3	1496	3	KED
⌊	**As**	**75**	**0.335**	ug/L	0.028	8	5	65	7	KED
	Y	**89**		ug/L			199932	200814	0	Standard
	Kr	**83**		ug/L			55	66	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5541	2	KED
|	**Cd**	**111**	**0.149**	ug/L	0.051	34	1	31	29	KED
⌊	**Cd**	**114**	**0.164**	ug/L	0.030	18	1	81	14	KED
⌈>	**Tb**	**159**		ug/L			457409	486106	3	Standard
⌊	**Pb**	**208**	**0.426**	ug/L	0.016	3	92	17305	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-MS1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, January 10, 2023 07:23:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43978	1	Standard
	Cl	**37**		ug/L			3318464	9366230	4	Standard
⌈>	**Sc**	**45**		ug/L			408513	443408	1	Standard
|	**Cr**	**52**	**42.648**	ug/L	0.410	0	15747	770251	0	Standard
|	**Cr**	**53**	**46.223**	ug/L	0.694	1	81	95321	0	Standard
⌊	**Mn**	**55**	**29.447**	ug/L	0.709	2	555	753736	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20923	1	KED
|	**Ni**	**60**	**28.103**	ug/L	0.049	0	13	26283	1	KED
|	**Ni**	**62**	**28.328**	ug/L	1.230	4	8	4351	5	KED
|	**Cu**	**63**	**50.240**	ug/L	0.859	1	28	139981	0	KED
|	**Cu**	**65**	**51.238**	ug/L	1.188	2	17	70506	2	KED
|	**Zn**	**66**	**103.825**	ug/L	0.413	0	33	38400	1	KED
|	**Zn**	**67**	**93.942**	ug/L	0.765	0	3	5933	2	KED
⌊	**As**	**75**	**26.513**	ug/L	0.322	1	5	4948	1	KED
	Y	**89**		ug/L			199932	207839	2	Standard
	Kr	**83**		ug/L			55	124	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	5581	0	KED
|	**Cd**	**111**	**24.586**	ug/L	0.446	1	1	4973	1	KED
⌊	**Cd**	**114**	**24.953**	ug/L	0.544	2	1	12260	2	KED
⌈>	**Tb**	**159**		ug/L			457409	491432	3	Standard
⌊	**Pb**	**208**	**24.910**	ug/L	0.610	2	92	1016845	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:28:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32672	1	Standard
	Cl	**37**		ug/L			3318464	3853976	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	430854	1	Standard
|	**Cr**	**52**	**0.085**	ug/L	0.023	26	15747	18067	0	Standard
|	**Cr**	**53**	**0.678**	ug/L	0.020	2	81	1442	4	Standard
⌊	**Mn**	**55**	**0.011**	ug/L	0.001	5	555	868	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21760	0	KED
|	**Ni**	**60**	**-0.012**	ug/L	0.001	9	13	3	34	KED
|	**Ni**	**62**	**0.010**	ug/L	0.014	142	8	10	20	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	35	28	55	15	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	98	17	24	19	KED
|	**Zn**	**66**	**0.019**	ug/L	0.016	81	33	45	13	KED
|	**Zn**	**67**	**0.090**	ug/L	0.044	49	3	10	28	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.012	766	5	5	41	KED
	Y	**89**		ug/L			199932	208753	1	Standard
	Kr	**83**		ug/L			55	52	20	Standard
⌈>	**In-1**	**115**		ug/L			5415	5908	3	KED
|	**Cd**	**111**	**0.005**	ug/L	0.014	282	1	3	96	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	800	1	2	120	KED
⌈>	**Tb**	**159**		ug/L			457409	488977	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	18	92	252	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:32:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32829	2	Standard
	Cl	**37**		ug/L			3318464	3828910	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	436149	1	Standard
|	**Cr**	**52**	**51.140**	ug/L	0.501	0	15747	905169	0	Standard
|	**Cr**	**53**	**51.343**	ug/L	0.769	1	81	104141	1	Standard
⌊	**Mn**	**55**	**52.117**	ug/L	0.697	1	555	1311988	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21735	0	KED
|	**Ni**	**60**	**51.373**	ug/L	0.445	0	13	49899	0	KED
|	**Ni**	**62**	**49.701**	ug/L	0.941	1	8	7922	1	KED
|	**Cu**	**63**	**51.021**	ug/L	0.847	1	28	147707	1	KED
|	**Cu**	**65**	**50.777**	ug/L	0.663	1	17	72594	1	KED
|	**Zn**	**66**	**51.553**	ug/L	0.870	1	33	19827	1	KED
|	**Zn**	**67**	**51.114**	ug/L	0.391	0	3	3355	0	KED
⌊	**As**	**75**	**51.747**	ug/L	0.321	0	5	10028	0	KED
	Y	**89**		ug/L			199932	216510	5	Standard
	Kr	**83**		ug/L			55	43	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5938	1	KED
|	**Cd**	**111**	**50.998**	ug/L	1.121	2	1	10972	1	KED
⌊	**Cd**	**114**	**52.391**	ug/L	1.022	1	1	27378	0	KED
⌈>	**Tb**	**159**		ug/L			457409	499124	3	Standard
⌊	**Pb**	**208**	**51.954**	ug/L	1.190	2	92	2154016	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:39:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	29955	2	Standard
	Cl	**37**		ug/L			3318464	3570965	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	408860	0	Standard
|	**Cr**	**52**	**0.054**	ug/L	0.022	40	15747	16648	3	Standard
|	**Cr**	**53**	**0.267**	ug/L	0.010	3	81	587	2	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.002	26	555	699	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	20392	1	KED
|	**Ni**	**60**	**0.014**	ug/L	0.020	143	13	26	68	KED
|	**Ni**	**62**	**0.015**	ug/L	0.054	365	8	10	73	KED
|	**Cu**	**63**	**0.028**	ug/L	0.031	110	28	105	79	KED
|	**Cu**	**65**	**0.029**	ug/L	0.048	168	17	56	114	KED
|	**Zn**	**66**	**0.124**	ug/L	0.090	72	33	80	40	KED
|	**Zn**	**67**	**0.204**	ug/L	0.110	53	3	16	40	KED
⌊	**As**	**75**	**0.016**	ug/L	0.029	181	5	8	64	KED
	Y	**89**		ug/L			199932	198779	2	Standard
	Kr	**83**		ug/L			55	48	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5592	0	KED
|	**Cd**	**111**	**0.006**	ug/L	0.015	253	1	3	96	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.006	585	1	2	121	KED
⌈>	**Tb**	**159**		ug/L			457409	461457	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	12	92	231	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0523-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:43:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	45919	1	Standard
	Cl	**37**		ug/L			3318464	3930683	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	461672	1	Standard
|	**Cr**	**52**	**1.132**	ug/L	0.015	1	15747	38604	0	Standard
|	**Cr**	**53**	**1.662**	ug/L	0.036	2	81	3656	2	Standard
⌊	**Mn**	**55**	**23.634**	ug/L	0.452	1	555	629960	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	21545	1	KED
|	**Ni**	**60**	**1.088**	ug/L	0.025	2	13	1061	1	KED
|	**Ni**	**62**	**1.049**	ug/L	0.062	5	8	174	3	KED
|	**Cu**	**63**	**6.072**	ug/L	0.166	2	28	17448	1	KED
|	**Cu**	**65**	**6.011**	ug/L	0.162	2	17	8532	1	KED
|	**Zn**	**66**	**159.680**	ug/L	4.687	2	33	60776	1	KED
|	**Zn**	**67**	**149.875**	ug/L	4.288	2	3	9741	1	KED
⌊	**As**	**75**	**0.263**	ug/L	0.020	7	5	56	5	KED
	Y	**89**		ug/L			199932	224900	1	Standard
	Kr	**83**		ug/L			55	38	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5836	0	KED
|	**Cd**	**111**	**0.074**	ug/L	0.013	17	1	17	15	KED
⌊	**Cd**	**114**	**0.077**	ug/L	0.013	17	1	41	16	KED
⌈>	**Tb**	**159**		ug/L			457409	503216	4	Standard
⌊	**Pb**	**208**	**3.582**	ug/L	0.144	4	92	149711	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0540-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:48:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46915	4	Standard
	Cl	**37**		ug/L			3318464	4029684	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	440839	0	Standard
|	**Cr**	**52**	**1.798**	ug/L	0.065	3	15747	48562	1	Standard
|	**Cr**	**53**	**2.240**	ug/L	0.023	1	81	4675	1	Standard
⌊	**Mn**	**55**	**2.963**	ug/L	0.008	0	555	75955	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	21408	1	KED
|	**Ni**	**60**	**0.714**	ug/L	0.029	4	13	697	2	KED
|	**Ni**	**62**	**0.618**	ug/L	0.044	7	8	106	5	KED
|	**Cu**	**63**	**5.598**	ug/L	0.102	1	28	15986	0	KED
|	**Cu**	**65**	**5.418**	ug/L	0.098	1	17	7646	2	KED
|	**Zn**	**66**	**63.085**	ug/L	0.539	0	33	23886	1	KED
|	**Zn**	**67**	**59.096**	ug/L	3.677	6	3	3817	4	KED
⌊	**As**	**75**	**0.369**	ug/L	0.025	6	5	76	5	KED
	Y	**89**		ug/L			199932	216759	2	Standard
	Kr	**83**		ug/L			55	47	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5856	4	KED
|	**Cd**	**111**	**0.055**	ug/L	0.018	33	1	13	29	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.012	27	1	24	26	KED
⌈>	**Tb**	**159**		ug/L			457409	496838	2	Standard
⌊	**Pb**	**208**	**0.929**	ug/L	0.016	1	92	38464	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0542-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:52:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	49286	2	Standard
	Cl	**37**		ug/L			3318464	5333242	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	439861	2	Standard
|	**Cr**	**52**	**1.950**	ug/L	0.041	2	15747	51102	1	Standard
|	**Cr**	**53**	**3.265**	ug/L	0.103	3	81	6758	1	Standard
⌊	**Mn**	**55**	**12.410**	ug/L	0.336	2	555	315353	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20670	1	KED
|	**Ni**	**60**	**1.364**	ug/L	0.023	1	13	1273	1	KED
|	**Ni**	**62**	**1.339**	ug/L	0.067	5	8	211	4	KED
|	**Cu**	**63**	**10.573**	ug/L	0.133	1	28	29136	2	KED
|	**Cu**	**65**	**10.670**	ug/L	0.129	1	17	14521	1	KED
|	**Zn**	**66**	**133.560**	ug/L	1.550	1	33	48786	0	KED
|	**Zn**	**67**	**123.167**	ug/L	4.343	3	3	7682	3	KED
⌊	**As**	**75**	**0.796**	ug/L	0.032	4	5	152	5	KED
	Y	**89**		ug/L			199932	211968	1	Standard
	Kr	**83**		ug/L			55	41	19	Standard
⌈>	**In-1**	**115**		ug/L			5415	5794	2	KED
|	**Cd**	**111**	**0.099**	ug/L	0.016	16	1	22	12	KED
⌊	**Cd**	**114**	**0.094**	ug/L	0.018	18	1	50	16	KED
⌈>	**Tb**	**159**		ug/L			457409	487729	5	Standard
⌊	**Pb**	**208**	**6.348**	ug/L	0.343	5	92	256922	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:57:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43851	0	Standard
	Cl	**37**		ug/L			3318464	3700060	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	416761	1	Standard
|	**Cr**	**52**	**0.414**	ug/L	0.031	7	15747	22932	1	Standard
|	**Cr**	**53**	**0.604**	ug/L	0.007	1	81	1251	1	Standard
⌊	**Mn**	**55**	**5.422**	ug/L	0.105	1	555	130903	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21262	0	KED
|	**Ni**	**60**	**0.229**	ug/L	0.031	13	13	232	13	KED
|	**Ni**	**62**	**0.207**	ug/L	0.097	46	8	41	37	KED
|	**Cu**	**63**	**1.698**	ug/L	0.016	0	28	4839	1	KED
|	**Cu**	**65**	**1.709**	ug/L	0.026	1	17	2409	2	KED
|	**Zn**	**66**	**14.587**	ug/L	0.267	1	33	5514	1	KED
|	**Zn**	**67**	**12.104**	ug/L	0.438	3	3	780	2	KED
⌊	**As**	**75**	**0.183**	ug/L	0.023	12	5	40	11	KED
	Y	**89**		ug/L			199932	205769	1	Standard
	Kr	**83**		ug/L			55	46	26	Standard
⌈>	**In-1**	**115**		ug/L			5415	5761	2	KED
|	**Cd**	**111**	**0.098**	ug/L	0.017	17	1	22	17	KED
⌊	**Cd**	**114**	**0.112**	ug/L	0.025	22	1	59	22	KED
⌈>	**Tb**	**159**		ug/L			457409	474819	3	Standard
⌊	**Pb**	**208**	**4.591**	ug/L	0.202	4	92	181072	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:01:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	42423	3	Standard
	Cl	**37**		ug/L			3318464	3617262	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	417780	0	Standard
|	**Cr**	**52**	**0.323**	ug/L	0.031	9	15747	21471	1	Standard
|	**Cr**	**53**	**0.436**	ug/L	0.020	4	81	928	3	Standard
⌊	**Mn**	**55**	**1.800**	ug/L	0.016	0	555	43955	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20962	1	KED
|	**Ni**	**60**	**0.100**	ug/L	0.017	16	13	107	14	KED
|	**Ni**	**62**	**0.100**	ug/L	0.040	40	8	24	24	KED
|	**Cu**	**63**	**0.621**	ug/L	0.022	3	28	1762	2	KED
|	**Cu**	**65**	**0.559**	ug/L	0.051	9	17	788	8	KED
|	**Zn**	**66**	**10.897**	ug/L	0.233	2	33	4069	0	KED
|	**Zn**	**67**	**9.377**	ug/L	0.287	3	3	596	2	KED
⌊	**As**	**75**	**0.184**	ug/L	0.005	2	5	39	3	KED
	Y	**89**		ug/L			199932	205922	0	Standard
	Kr	**83**		ug/L			55	38	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5856	2	KED
|	**Cd**	**111**	**0.035**	ug/L	0.009	24	1	9	17	KED
⌊	**Cd**	**114**	**0.032**	ug/L	0.020	62	1	18	54	KED
⌈>	**Tb**	**159**		ug/L			457409	470943	2	Standard
⌊	**Pb**	**208**	**1.244**	ug/L	0.030	2	92	48750	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:05:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40565	0	Standard
	Cl	**37**		ug/L			3318464	3655989	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	416430	2	Standard
|	**Cr**	**52**	**0.559**	ug/L	0.050	8	15747	25316	1	Standard
|	**Cr**	**53**	**0.678**	ug/L	0.034	4	81	1394	3	Standard
⌊	**Mn**	**55**	**5.240**	ug/L	0.099	1	555	126440	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21519	0	KED
|	**Ni**	**60**	**0.332**	ug/L	0.035	10	13	333	10	KED
|	**Ni**	**62**	**0.256**	ug/L	0.033	12	8	49	10	KED
|	**Cu**	**63**	**1.494**	ug/L	0.034	2	28	4311	2	KED
|	**Cu**	**65**	**1.489**	ug/L	0.065	4	17	2125	4	KED
|	**Zn**	**66**	**12.349**	ug/L	0.306	2	33	4730	2	KED
|	**Zn**	**67**	**11.283**	ug/L	0.427	3	3	736	3	KED
⌊	**As**	**75**	**0.157**	ug/L	0.026	16	5	35	14	KED
	Y	**89**		ug/L			199932	200972	1	Standard
	Kr	**83**		ug/L			55	36	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	6130	2	KED
|	**Cd**	**111**	**0.017**	ug/L	0.009	52	1	6	36	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.005	38	1	9	32	KED
⌈>	**Tb**	**159**		ug/L			457409	469615	5	Standard
⌊	**Pb**	**208**	**2.025**	ug/L	0.047	2	92	79080	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0545-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:10:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	38911	1	Standard
	Cl	37		ug/L			3318464	3496197	3	Standard
⌈>	Sc	45		ug/L			408513	439207	1	Standard
|	Cr	52	2.993	ug/L	0.029	0	15747	69300	2	Standard
|	Cr	53	3.177	ug/L	0.105	3	81	6570	2	Standard
⌊	Mn	55	50.355	ug/L	1.701	3	555	1275969	1	Standard
⌈>	Ge	72		ug/L			19427	21059	1	KED
|	Ni	60	3.909	ug/L	0.102	2	13	3691	1	KED
|	Ni	62	3.952	ug/L	0.096	2	8	618	1	KED
|	Cu	63	111.264	ug/L	3.415	3	28	311963	1	KED
|	Cu	65	112.206	ug/L	3.498	3	17	155363	1	KED
|	Zn	66	85.157	ug/L	2.201	2	33	31703	1	KED
|	Zn	67	75.845	ug/L	0.627	0	3	4821	1	KED
⌊	As	75	0.921	ug/L	0.038	4	5	178	3	KED
	Y	89		ug/L			199932	230715	1	Standard
	Kr	83		ug/L			55	50	30	Standard
⌈>	In-1	115		ug/L			5415	5835	2	KED
|	Cd	111	0.114	ug/L	0.035	30	1	26	25	KED
⌊	Cd	114	0.100	ug/L	0.017	16	1	53	15	KED
⌈>	Tb	159		ug/L			457409	474970	4	Standard
⌊	Pb	208	10.334	ug/L	0.248	2	92	407679	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0546-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:14:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	47491	2	Standard
	Cl	**37**		ug/L			3318464	3761871	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	435530	1	Standard
|	**Cr**	**52**	**0.359**	ug/L	0.009	2	15747	23021	1	Standard
|	**Cr**	**53**	**0.738**	ug/L	0.025	3	81	1581	4	Standard
⌊	**Mn**	**55**	**13.529**	ug/L	0.234	1	555	340575	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	21065	1	KED
|	**Ni**	**60**	**1.278**	ug/L	0.104	8	13	1216	7	KED
|	**Ni**	**62**	**1.140**	ug/L	0.028	2	8	184	1	KED
|	**Cu**	**63**	**6.402**	ug/L	0.170	2	28	17987	2	KED
|	**Cu**	**65**	**6.410**	ug/L	0.096	1	17	8896	1	KED
|	**Zn**	**66**	**213.261**	ug/L	2.813	1	33	79385	2	KED
|	**Zn**	**67**	**187.414**	ug/L	3.654	1	3	11914	3	KED
⌊	**As**	**75**	**0.315**	ug/L	0.038	11	5	64	12	KED
	Y	**89**		ug/L			199932	213847	3	Standard
	Kr	**83**		ug/L			55	40	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5934	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.004	7	1	13	7	KED
⌊	**Cd**	**114**	**0.059**	ug/L	0.016	26	1	32	23	KED
⌈>	**Tb**	**159**		ug/L			457409	487352	3	Standard
⌊	**Pb**	**208**	**0.254**	ug/L	0.009	3	92	10381	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0546-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:18:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	50965	1	Standard
	Cl	**37**		ug/L			3318464	3717283	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	482502	1	Standard
|	**Cr**	**52**	**0.524**	ug/L	0.016	3	15747	28665	1	Standard
|	**Cr**	**53**	**0.733**	ug/L	0.018	2	81	1740	2	Standard
⌊	**Mn**	**55**	**10.486**	ug/L	0.272	2	555	292470	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21934	1	KED
|	**Ni**	**60**	**0.705**	ug/L	0.077	10	13	704	9	KED
|	**Ni**	**62**	**0.641**	ug/L	0.026	4	8	112	4	KED
|	**Cu**	**63**	**8.029**	ug/L	0.155	1	28	23479	0	KED
|	**Cu**	**65**	**7.974**	ug/L	0.179	2	17	11519	1	KED
|	**Zn**	**66**	**141.640**	ug/L	1.393	0	33	54906	1	KED
|	**Zn**	**67**	**123.924**	ug/L	3.182	2	3	8203	3	KED
⌊	**As**	**75**	**0.600**	ug/L	0.042	7	5	123	5	KED
	Y	**89**		ug/L			199932	223391	3	Standard
	Kr	**83**		ug/L			55	46	21	Standard
⌈>	**In-1**	**115**		ug/L			5415	5799	2	KED
|	**Cd**	**111**	**0.090**	ug/L	0.015	16	1	20	13	KED
⌊	**Cd**	**114**	**0.099**	ug/L	0.023	23	1	52	21	KED
⌈>	**Tb**	**159**		ug/L			457409	503616	3	Standard
⌊	**Pb**	**208**	**1.647**	ug/L	0.029	1	92	69013	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0547-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:24:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	61706	1	Standard
	Cl	**37**		ug/L			3318464	9362251	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	444137	3	Standard
|	**Cr**	**52**	**1.398**	ug/L	0.064	4	15747	41819	0	Standard
|	**Cr**	**53**	**4.986**	ug/L	0.196	3	81	10369	0	Standard
⌊	**Mn**	**55**	**2.608**	ug/L	0.141	5	555	67358	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	19551	1	KED
|	**Ni**	**60**	**3.834**	ug/L	0.047	1	13	3361	1	KED
|	**Ni**	**62**	**4.014**	ug/L	0.292	7	8	582	6	KED
|	**Cu**	**63**	**70.251**	ug/L	2.226	3	28	182861	1	KED
|	**Cu**	**65**	**71.953**	ug/L	1.881	2	17	92499	0	KED
|	**Zn**	**66**	**488.968**	ug/L	3.227	0	33	168857	1	KED
|	**Zn**	**67**	**433.856**	ug/L	7.914	1	3	25587	2	KED
⌊	**As**	**75**	**1.428**	ug/L	0.102	7	5	253	5	KED
	Y	**89**		ug/L			199932	211673	1	Standard
	Kr	**83**		ug/L			55	57	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5528	0	KED
|	**Cd**	**111**	**0.759**	ug/L	0.037	4	1	153	4	KED
⌊	**Cd**	**114**	**0.784**	ug/L	0.047	6	1	383	6	KED
⌈>	**Tb**	**159**		ug/L			457409	493334	3	Standard
⌊	**Pb**	**208**	**0.507**	ug/L	0.019	3	92	20847	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:32:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31794	5	Standard
	Cl	**37**		ug/L			3318464	3712270	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	425363	4	Standard
⎢	**Cr**	**52**	**51.087**	ug/L	0.419	0	15747	881752	3	Standard
⎢	**Cr**	**53**	**51.068**	ug/L	0.505	0	81	101022	4	Standard
⎣	**Mn**	**55**	**51.893**	ug/L	1.017	1	555	1273383	2	Standard
⎡>	**Ge**	**72**		ug/L			19427	20738	1	KED
⎢	**Ni**	**60**	**50.850**	ug/L	1.099	2	13	47115	0	KED
⎢	**Ni**	**62**	**50.492**	ug/L	1.292	2	8	7676	1	KED
⎢	**Cu**	**63**	**49.409**	ug/L	1.167	2	28	136462	2	KED
⎢	**Cu**	**65**	**49.846**	ug/L	1.107	2	17	67981	0	KED
⎢	**Zn**	**66**	**50.636**	ug/L	1.107	2	33	18577	0	KED
⎢	**Zn**	**67**	**50.325**	ug/L	1.843	3	3	3150	2	KED
⎣	**As**	**75**	**49.995**	ug/L	1.497	2	5	9242	1	KED
	Y	**89**		ug/L			199932	208978	5	Standard
	Kr	**83**		ug/L			55	56	7	Standard
⎡>	**In-1**	**115**		ug/L			5415	5699	1	KED
⎢	**Cd**	**111**	**49.602**	ug/L	1.197	2	1	10242	1	KED
⎣	**Cd**	**114**	**50.166**	ug/L	1.564	3	1	25164	3	KED
⎡>	**Tb**	**159**		ug/L			457409	485359	5	Standard
⎣	**Pb**	**208**	**52.206**	ug/L	2.038	3	92	2102625	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:39:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30209	3	Standard
	Cl	**37**		ug/L			3318464	3596592	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	403045	1	Standard
|	**Cr**	**52**	**0.029**	ug/L	0.008	26	15747	16008	1	Standard
|	**Cr**	**53**	**0.128**	ug/L	0.003	2	81	320	3	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	52	555	625	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	21913	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.002	38	13	9	20	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.019	177	8	7	43	KED
|	**Cu**	**63**	**0.010**	ug/L	0.003	31	28	62	16	KED
|	**Cu**	**65**	**0.006**	ug/L	0.002	32	17	27	7	KED
|	**Zn**	**66**	**0.062**	ug/L	0.039	62	33	61	21	KED
|	**Zn**	**67**	**0.071**	ug/L	0.113	159	3	8	81	KED
⌊	**As**	**75**	**0.002**	ug/L	0.013	746	5	6	40	KED
	Y	**89**		ug/L			199932	192600	2	Standard
	Kr	**83**		ug/L			55	52	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5970	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	238	1	1	69	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	125	1	1	112	KED
⌈>	**Tb**	**159**		ug/L			457409	456893	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	16	92	231	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0549-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:44:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	48055	0	Standard
	Cl	37		ug/L			3318464	3704542	1	Standard
⌈>	Sc	45		ug/L			408513	438676	2	Standard
|	Cr	52	0.848	ug/L	0.037	4	15747	31725	3	Standard
|	Cr	53	0.882	ug/L	0.022	2	81	1885	4	Standard
⌊	Mn	55	9.261	ug/L	0.077	0	555	234950	1	Standard
⌈>	Ge	72		ug/L			19427	20753	1	KED
|	Ni	60	0.527	ug/L	0.021	4	13	502	3	KED
|	Ni	62	0.474	ug/L	0.098	20	8	80	16	KED
|	Cu	63	3.779	ug/L	0.027	0	28	10474	1	KED
|	Cu	65	3.721	ug/L	0.081	2	17	5094	1	KED
|	Zn	66	188.434	ug/L	2.218	1	33	69096	1	KED
|	Zn	67	168.431	ug/L	1.290	0	3	10547	1	KED
⌊	As	75	0.184	ug/L	0.018	9	5	39	7	KED
	Y	89		ug/L			199932	218062	2	Standard
	Kr	83		ug/L			55	59	22	Standard
⌈>	In-1	115		ug/L			5415	5739	4	KED
|	Cd	111	0.064	ug/L	0.018	29	1	15	25	KED
⌊	Cd	114	0.044	ug/L	0.019	41	1	24	42	KED
⌈>	Tb	159		ug/L			457409	490148	3	Standard
⌊	Pb	208	3.069	ug/L	0.058	1	92	125048	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0549-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:48:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43657	0	Standard
	Cl	**37**		ug/L			3318464	3658474	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	422079	0	Standard
|	**Cr**	**52**	**1.009**	ug/L	0.012	1	15747	33228	0	Standard
|	**Cr**	**53**	**1.017**	ug/L	0.028	2	81	2078	2	Standard
⌊	**Mn**	**55**	**5.766**	ug/L	0.126	2	555	140969	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20820	1	KED
|	**Ni**	**60**	**0.448**	ug/L	0.012	2	13	431	3	KED
|	**Ni**	**62**	**0.379**	ug/L	0.028	7	8	66	4	KED
|	**Cu**	**63**	**3.316**	ug/L	0.038	1	28	9223	0	KED
|	**Cu**	**65**	**3.327**	ug/L	0.104	3	17	4574	3	KED
|	**Zn**	**66**	**167.344**	ug/L	3.320	1	33	61575	3	KED
|	**Zn**	**67**	**148.651**	ug/L	4.591	3	3	9337	2	KED
⌊	**As**	**75**	**0.150**	ug/L	0.021	14	5	33	13	KED
	Y	**89**		ug/L			199932	207357	2	Standard
	Kr	**83**		ug/L			55	36	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	5774	4	KED
|	**Cd**	**111**	**0.046**	ug/L	0.025	55	1	11	41	KED
⌊	**Cd**	**114**	**0.039**	ug/L	0.010	27	1	21	22	KED
⌈>	**Tb**	**159**		ug/L			457409	474673	2	Standard
⌊	**Pb**	**208**	**1.989**	ug/L	0.047	2	92	78518	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0550-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:52:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	40883	3	Standard
	Cl	37		ug/L			3318464	3612005	2	Standard
⌈>	Sc	45		ug/L			408513	453549	3	Standard
|	Cr	52	0.188	ug/L	0.036	19	15747	20862	0	Standard
|	Cr	53	0.284	ug/L	0.020	7	81	689	7	Standard
⌊	Mn	55	3.705	ug/L	0.107	2	555	97489	1	Standard
⌈>	Ge	72		ug/L			19427	21244	4	KED
|	Ni	60	0.315	ug/L	0.034	10	13	312	7	KED
|	Ni	62	0.253	ug/L	0.065	25	8	48	20	KED
|	Cu	63	2.226	ug/L	0.073	3	28	6323	3	KED
|	Cu	65	2.248	ug/L	0.119	5	17	3155	1	KED
|	Zn	66	31.792	ug/L	0.338	1	33	11968	5	KED
|	Zn	67	27.264	ug/L	1.079	3	3	1752	7	KED
⌊	As	75	0.102	ug/L	0.013	13	5	24	6	KED
	Y	89		ug/L			199932	218574	2	Standard
	Kr	83		ug/L			55	46	4	Standard
⌈>	In-1	115		ug/L			5415	6221	4	KED
|	Cd	111	0.013	ug/L	0.005	38	1	5	21	KED
⌊	Cd	114	0.008	ug/L	0.005	69	1	6	44	KED
⌈>	Tb	159		ug/L			457409	499761	5	Standard
⌊	Pb	208	1.312	ug/L	0.060	4	92	54495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0551-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:57:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	48956	1	Standard
	Cl	**37**		ug/L			3318464	3670526	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	457755	1	Standard
|	**Cr**	**52**	**0.579**	ug/L	0.029	4	15747	28204	1	Standard
|	**Cr**	**53**	**0.753**	ug/L	0.013	1	81	1691	0	Standard
⌊	**Mn**	**55**	**8.170**	ug/L	0.125	1	555	216381	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21408	0	KED
|	**Ni**	**60**	**0.531**	ug/L	0.016	2	13	522	3	KED
|	**Ni**	**62**	**0.512**	ug/L	0.114	22	8	89	20	KED
|	**Cu**	**63**	**5.284**	ug/L	0.208	3	28	15094	4	KED
|	**Cu**	**65**	**5.326**	ug/L	0.048	0	17	7516	0	KED
|	**Zn**	**66**	**47.155**	ug/L	0.820	1	33	17864	1	KED
|	**Zn**	**67**	**41.932**	ug/L	0.491	1	3	2712	1	KED
⌊	**As**	**75**	**0.392**	ug/L	0.012	2	5	80	2	KED
	Y	**89**		ug/L			199932	214863	1	Standard
	Kr	**83**		ug/L			55	45	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	5966	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.017	32	1	13	28	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.016	48	1	19	44	KED
⌈>	**Tb**	**159**		ug/L			457409	484836	4	Standard
⌊	**Pb**	**208**	**0.777**	ug/L	0.036	4	92	31375	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0552-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:01:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	39475	2	Standard
	Cl	**37**		ug/L			3318464	3612996	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	426365	1	Standard
|	**Cr**	**52**	**0.835**	ug/L	0.036	4	15747	30608	0	Standard
|	**Cr**	**53**	**0.926**	ug/L	0.036	3	81	1918	1	Standard
⌊	**Mn**	**55**	**14.974**	ug/L	0.375	2	555	368797	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21161	2	KED
|	**Ni**	**60**	**0.644**	ug/L	0.031	4	13	622	3	KED
|	**Ni**	**62**	**0.566**	ug/L	0.087	15	8	96	11	KED
|	**Cu**	**63**	**2.848**	ug/L	0.120	4	28	8052	1	KED
|	**Cu**	**65**	**2.912**	ug/L	0.087	2	17	4068	1	KED
|	**Zn**	**66**	**100.665**	ug/L	3.149	3	33	37638	0	KED
|	**Zn**	**67**	**88.356**	ug/L	4.563	5	3	5639	3	KED
⌊	**As**	**75**	**0.185**	ug/L	0.033	17	5	40	17	KED
	Y	**89**		ug/L			199932	211332	1	Standard
	Kr	**83**		ug/L			55	39	10	Standard
⌈>	**In-1**	**115**		ug/L			5415	5813	2	KED
|	**Cd**	**111**	**0.039**	ug/L	0.012	32	1	10	23	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.000	1	1	16	3	KED
⌈>	**Tb**	**159**		ug/L			457409	480481	4	Standard
⌊	**Pb**	**208**	**1.376**	ug/L	0.051	3	92	54960	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0553-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:05:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46289	2	Standard
	Cl	**37**		ug/L			3318464	3604765	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	431442	4	Standard
|	**Cr**	**52**	**0.351**	ug/L	0.033	9	15747	22652	2	Standard
|	**Cr**	**53**	**0.326**	ug/L	0.004	1	81	739	4	Standard
⌊	**Mn**	**55**	**3.398**	ug/L	0.051	1	555	85136	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	20824	1	KED
|	**Ni**	**60**	**0.288**	ug/L	0.042	14	13	282	14	KED
|	**Ni**	**62**	**0.208**	ug/L	0.058	27	8	40	21	KED
|	**Cu**	**63**	**1.501**	ug/L	0.033	2	28	4192	1	KED
|	**Cu**	**65**	**1.475**	ug/L	0.078	5	17	2038	5	KED
|	**Zn**	**66**	**72.333**	ug/L	1.028	1	33	26636	1	KED
|	**Zn**	**67**	**64.667**	ug/L	1.018	1	3	4065	0	KED
⌊	**As**	**75**	**0.156**	ug/L	0.007	4	5	34	4	KED
	Y	**89**		ug/L			199932	210937	3	Standard
	Kr	**83**		ug/L			55	55	20	Standard
⌈>	**In-1**	**115**		ug/L			5415	6126	1	KED
|	**Cd**	**111**	**0.019**	ug/L	0.005	26	1	6	17	KED
⌊	**Cd**	**114**	**0.025**	ug/L	0.007	26	1	15	24	KED
⌈>	**Tb**	**159**		ug/L			457409	483078	6	Standard
⌊	**Pb**	**208**	**0.320**	ug/L	0.013	3	92	12936	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0554-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:10:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	49934	1	Standard
	Cl	37		ug/L			3318464	3799721	0	Standard
⌈>	Sc	45		ug/L			408513	432185	2	Standard
|	Cr	52	1.215	ug/L	0.011	0	15747	37569	2	Standard
|	Cr	53	1.492	ug/L	0.032	2	81	3081	1	Standard
⌊	Mn	55	64.166	ug/L	0.454	0	555	1600218	1	Standard
⌈>	Ge	72		ug/L			19427	20626	2	KED
|	Ni	60	33.597	ug/L	0.744	2	13	30963	0	KED
|	Ni	62	33.669	ug/L	1.644	4	8	5092	2	KED
|	Cu	63	67.036	ug/L	2.008	2	28	184076	0	KED
|	Cu	65	68.135	ug/L	1.385	2	17	92419	1	KED
|	Zn	66	24.753	ug/L	0.855	3	33	9048	1	KED
|	Zn	67	23.377	ug/L	1.425	6	3	1457	4	KED
⌊	As	75	0.502	ug/L	0.062	12	5	97	12	KED
	Y	89		ug/L			199932	207457	2	Standard
	Kr	83		ug/L			55	46	22	Standard
⌈>	In-1	115		ug/L			5415	5885	0	KED
|	Cd	111	0.296	ug/L	0.049	16	1	65	15	KED
⌊	Cd	114	0.311	ug/L	0.000	0	1	163	0	KED
⌈>	Tb	159		ug/L			457409	471305	3	Standard
⌊	Pb	208	8.164	ug/L	0.264	3	92	319597	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0554-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:14:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	52582	0	Standard
	Cl	37		ug/L			3318464	3867292	1	Standard
⌈>	Sc	45		ug/L			408513	421927	0	Standard
|	Cr	52	0.693	ug/L	0.036	5	15747	27915	2	Standard
|	Cr	53	1.351	ug/L	0.019	1	81	2732	1	Standard
⌊	Mn	55	1.707	ug/L	0.006	0	555	42111	0	Standard
⌈>	Ge	72		ug/L			19427	20767	0	KED
|	Ni	60	4.146	ug/L	0.119	2	13	3860	2	KED
|	Ni	62	3.982	ug/L	0.216	5	8	614	5	KED
|	Cu	63	10.911	ug/L	0.310	2	28	30203	2	KED
|	Cu	65	11.248	ug/L	0.323	2	17	15378	2	KED
|	Zn	66	3.154	ug/L	0.147	4	33	1193	5	KED
|	Zn	67	3.077	ug/L	0.337	10	3	196	10	KED
⌊	As	75	0.191	ug/L	0.030	15	5	40	12	KED
	Y	89		ug/L			199932	205403	1	Standard
	Kr	83		ug/L			55	46	2	Standard
⌈>	In-1	115		ug/L			5415	5667	2	KED
|	Cd	111	0.023	ug/L	0.018	76	1	6	51	KED
⌊	Cd	114	0.038	ug/L	0.012	32	1	20	28	KED
⌈>	Tb	159		ug/L			457409	467988	4	Standard
⌊	Pb	208	1.871	ug/L	0.054	2	92	72798	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0555-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:18:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	96660	1	Standard
	Cl	37		ug/L			3318464	3971335	2	Standard
⌈>	Sc	45		ug/L			408513	451429	1	Standard
|	Cr	52	1.150	ug/L	0.035	3	15747	38092	3	Standard
|	Cr	53	1.552	ug/L	0.047	2	81	3344	1	Standard
⌊	Mn	55	8.873	ug/L	0.064	0	555	231663	1	Standard
⌈>	Ge	72		ug/L			19427	20656	2	KED
|	Ni	60	0.913	ug/L	0.085	9	13	856	8	KED
|	Ni	62	0.927	ug/L	0.100	10	8	149	11	KED
|	Cu	63	6.054	ug/L	0.031	0	28	16682	1	KED
|	Cu	65	6.111	ug/L	0.056	0	17	8318	1	KED
|	Zn	66	75.267	ug/L	1.409	1	33	27485	0	KED
|	Zn	67	67.567	ug/L	1.891	2	3	4212	2	KED
⌊	As	75	0.291	ug/L	0.007	2	5	58	0	KED
	Y	89		ug/L			199932	223499	3	Standard
	Kr	83		ug/L			55	44	10	Standard
⌈>	In-1	115		ug/L			5415	5889	4	KED
|	Cd	111	0.312	ug/L	0.039	12	1	68	15	KED
⌊	Cd	114	0.291	ug/L	0.019	6	1	153	8	KED
⌈>	Tb	159		ug/L			457409	504449	3	Standard
⌊	Pb	208	1.158	ug/L	0.042	3	92	48617	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0556-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:24:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	46977	1	Standard
	Cl	37		ug/L			3318464	3685710	2	Standard
⌈>	Sc	45		ug/L			408513	431243	2	Standard
|	Cr	52	0.594	ug/L	0.039	6	15747	26807	0	Standard
|	Cr	53	0.628	ug/L	0.011	1	81	1343	2	Standard
⌊	Mn	55	8.247	ug/L	0.180	2	555	205701	0	Standard
⌈>	Ge	72		ug/L			19427	20826	3	KED
|	Ni	60	0.449	ug/L	0.032	7	13	432	7	KED
|	Ni	62	0.390	ug/L	0.111	28	8	68	26	KED
|	Cu	63	3.462	ug/L	0.052	1	28	9632	3	KED
|	Cu	65	3.540	ug/L	0.271	7	17	4860	5	KED
|	Zn	66	27.728	ug/L	0.943	3	33	10227	1	KED
|	Zn	67	25.657	ug/L	0.798	3	3	1616	6	KED
⌊	As	75	0.995	ug/L	0.084	8	5	190	9	KED
	Y	89		ug/L			199932	204874	1	Standard
	Kr	83		ug/L			55	46	6	Standard
⌈>	In-1	115		ug/L			5415	6070	2	KED
|	Cd	111	0.093	ug/L	0.007	7	1	22	4	KED
⌊	Cd	114	0.097	ug/L	0.009	9	1	53	6	KED
⌈>	Tb	159		ug/L			457409	472358	5	Standard
⌊	Pb	208	0.518	ug/L	0.020	3	92	20382	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVM
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:32:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32341	2	Standard
	Cl	**37**		ug/L			3318464	3720716	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	432297	0	Standard
⎢	**Cr**	**52**	**50.387**	ug/L	0.595	1	15747	884217	0	Standard
⎢	**Cr**	**53**	**50.590**	ug/L	0.950	1	81	101714	1	Standard
⎣	**Mn**	**55**	**51.878**	ug/L	0.507	0	555	1294415	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	20405	2	KED
⎢	**Ni**	**60**	**51.402**	ug/L	1.519	2	13	46852	1	KED
⎢	**Ni**	**62**	**50.393**	ug/L	0.834	1	8	7539	1	KED
⎢	**Cu**	**63**	**50.650**	ug/L	1.654	3	28	137594	1	KED
⎢	**Cu**	**65**	**51.154**	ug/L	1.806	3	17	68635	2	KED
⎢	**Zn**	**66**	**52.407**	ug/L	1.052	2	33	18916	0	KED
⎢	**Zn**	**67**	**53.199**	ug/L	1.702	3	3	3277	2	KED
⎣	**As**	**75**	**50.923**	ug/L	1.316	2	5	9262	1	KED
	Y	**89**		ug/L			199932	212038	2	Standard
	Kr	**83**		ug/L			55	61	7	Standard
⎡>	**In-1**	**115**		ug/L			5415	5559	1	KED
⎢	**Cd**	**111**	**51.396**	ug/L	1.370	2	1	10352	2	KED
⎣	**Cd**	**114**	**52.425**	ug/L	0.541	1	1	25650	0	KED
⎡>	**Tb**	**159**		ug/L			457409	485110	3	Standard
⎣	**Pb**	**208**	**52.470**	ug/L	0.920	1	92	2114500	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBM
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:39:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30305	1	Standard
	Cl	**37**		ug/L			3318464	3488814	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	399208	3	Standard
|	**Cr**	**52**	**0.043**	ug/L	0.033	77	15747	16054	1	Standard
|	**Cr**	**53**	**0.055**	ug/L	0.020	35	81	181	24	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.002	82	555	585	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	20942	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.006	223	13	12	45	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.018	7708	8	8	32	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	38	28	53	16	KED
|	**Cu**	**65**	**0.012**	ug/L	0.006	48	17	35	24	KED
|	**Zn**	**66**	**0.086**	ug/L	0.017	19	33	67	9	KED
|	**Zn**	**67**	**0.205**	ug/L	0.103	50	3	17	40	KED
⌊	**As**	**75**	**0.008**	ug/L	0.002	28	5	6	3	KED
	Y	**89**		ug/L			199932	198604	2	Standard
	Kr	**83**		ug/L			55	46	9	Standard
⌈>	**In-1**	**115**		ug/L			5415	5528	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	216	1	1	114	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	415	1	2	92	KED
⌈>	**Tb**	**159**		ug/L			457409	453333	6	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	9	92	241	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:44:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	41751	2	Standard
	Cl	**37**		ug/L			3318464	3685451	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	494551	1	Standard
⎢	**Cr**	**52**	**0.037**	ug/L	0.016	43	15747	19786	0	Standard
⎢	**Cr**	**53**	**0.047**	ug/L	0.002	3	81	205	3	Standard
⎣	**Mn**	**55**	**0.035**	ug/L	0.003	7	555	1667	3	Standard
⎡>	**Ge**	**72**		ug/L			19427	22437	1	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.005	2250	13	15	33	KED
⎢	**Ni**	**62**	**-0.027**	ug/L	0.007	24	8	5	21	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.006	69	28	59	29	KED
⎢	**Cu**	**65**	**0.010**	ug/L	0.004	36	17	34	17	KED
⎢	**Zn**	**66**	**0.103**	ug/L	0.064	62	33	79	30	KED
⎢	**Zn**	**67**	**0.114**	ug/L	0.061	53	3	12	32	KED
⎣	**As**	**75**	**-0.007**	ug/L	0.007	99	5	4	34	KED
	Y	**89**		ug/L			199932	231674	2	Standard
	Kr	**83**		ug/L			55	62	16	Standard
⎡>	**In-1**	**115**		ug/L			5415	6516	1	KED
⎢	**Cd**	**111**	**0.002**	ug/L	0.004	167	1	2	33	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.002	99	1	1	107	KED
⎡>	**Tb**	**159**		ug/L			457409	519465	4	Standard
⎣	**Pb**	**208**	**0.015**	ug/L	0.001	6	92	762	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:48:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40339	1	Standard
	Cl	**37**		ug/L			3318464	3620868	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	480278	1	Standard
|	**Cr**	**52**	**0.046**	ug/L	0.036	78	15747	19388	3	Standard
|	**Cr**	**53**	**0.036**	ug/L	0.008	22	81	176	9	Standard
⌊	**Mn**	**55**	**0.039**	ug/L	0.002	4	555	1738	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	22088	0	KED
|	**Ni**	**60**	**0.003**	ug/L	0.013	471	13	17	69	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.011	103	8	7	25	KED
|	**Cu**	**63**	**0.008**	ug/L	0.004	57	28	54	22	KED
|	**Cu**	**65**	**0.012**	ug/L	0.006	54	17	36	26	KED
|	**Zn**	**66**	**0.086**	ug/L	0.018	20	33	71	10	KED
|	**Zn**	**67**	**0.097**	ug/L	0.032	32	3	10	20	KED
⌊	**As**	**75**	**-0.013**	ug/L	0.005	37	5	3	31	KED
	Y	**89**		ug/L			199932	229084	2	Standard
	Kr	**83**		ug/L			55	60	23	Standard
⌈>	**In-1**	**115**		ug/L			5415	6421	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.009	643	1	1	100	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.004	100	1	4	48	KED
⌈>	**Tb**	**159**		ug/L			457409	507860	1	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	5	92	683	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:52:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40713	1	Standard
	Cl	**37**		ug/L			3318464	3552995	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	493899	3	Standard
⎢	**Cr**	**52**	**0.050**	ug/L	0.032	64	15747	20010	0	Standard
⎢	**Cr**	**53**	**0.027**	ug/L	0.003	12	81	159	8	Standard
⎣	**Mn**	**55**	**0.037**	ug/L	0.001	1	555	1731	3	Standard
⎡>	**Ge**	**72**		ug/L			19427	22242	1	KED
⎢	**Ni**	**60**	**0.001**	ug/L	0.009	694	13	16	53	KED
⎢	**Ni**	**62**	**-0.038**	ug/L	0.014	35	8	3	69	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.001	7	28	60	1	KED
⎢	**Cu**	**65**	**0.002**	ug/L	0.004	227	17	22	26	KED
⎢	**Zn**	**66**	**0.050**	ug/L	0.029	57	33	58	20	KED
⎢	**Zn**	**67**	**0.096**	ug/L	0.061	63	3	10	36	KED
⎣	**As**	**75**	**-0.009**	ug/L	0.001	14	5	4	6	KED
	Y	**89**		ug/L			199932	231256	2	Standard
	Kr	**83**		ug/L			55	48	34	Standard
⎡>	**In-1**	**115**		ug/L			5415	6375	2	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.002	81	1	1	34	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.003	351	1	1	114	KED
⎡>	**Tb**	**159**		ug/L			457409	521797	4	Standard
⎣	**Pb**	**208**	**0.014**	ug/L	0.002	11	92	690	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:57:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32105	0	Standard
	Cl	**37**		ug/L			3318464	3332714	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	417881	0	Standard
|	**Cr**	**52**	**-0.060**	ug/L	0.008	13	15747	15111	1	Standard
|	**Cr**	**53**	**0.026**	ug/L	0.001	5	81	134	2	Standard
⌊	**Mn**	**55**	**-0.011**	ug/L	0.001	5	555	296	4	Standard
⌈>	**Ge**	**72**		ug/L			19427	21293	0	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.001	30	13	10	10	KED
|	**Ni**	**62**	**-0.038**	ug/L	0.007	18	8	3	34	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.002	202	28	27	23	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.004	135	17	14	37	KED
|	**Zn**	**66**	**-0.020**	ug/L	0.019	94	33	29	24	KED
|	**Zn**	**67**	**0.063**	ug/L	0.016	25	3	8	13	KED
⌊	**As**	**75**	**-0.009**	ug/L	0.006	69	5	3	33	KED
	Y	**89**		ug/L			199932	196948	2	Standard
	Kr	**83**		ug/L			55	52	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5849	3	KED
|	**Cd**	**111**	**0.004**	ug/L	0.008	205	1	2	57	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.004	69	1	4	43	KED
⌈>	**Tb**	**159**		ug/L			457409	459690	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	30	92	71	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 10:01:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30783	1	Standard
	Cl	**37**		ug/L			3318464	3362908	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	390990	3	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.041	1789	15747	15021	0	Standard
⎢	**Cr**	**53**	**0.034**	ug/L	0.005	15	81	140	6	Standard
⎣	**Mn**	**55**	**-0.011**	ug/L	0.001	7	555	287	5	Standard
⎡>	**Ge**	**72**		ug/L			19427	21419	1	KED
⎢	**Ni**	**60**	**-0.003**	ug/L	0.004	104	13	11	28	KED
⎢	**Ni**	**62**	**-0.030**	ug/L	0.025	85	8	4	89	KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.001	164	28	29	13	KED
⎢	**Cu**	**65**	**-0.005**	ug/L	0.001	17	17	12	9	KED
⎢	**Zn**	**66**	**-0.012**	ug/L	0.001	7	33	32	0	KED
⎢	**Zn**	**67**	**0.033**	ug/L	0.046	136	3	6	45	KED
⎣	**As**	**75**	**-0.008**	ug/L	0.007	86	5	3	34	KED
	Y	**89**		ug/L			199932	190097	1	Standard
	Kr	**83**		ug/L			55	41	14	Standard
⎡>	**In-1**	**115**		ug/L			5415	5938	3	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.004	114	1	2	33	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.002	139	1	1	93	KED
⎡>	**Tb**	**159**		ug/L			457409	443814	6	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	17	92	50	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 10:05:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30788	2	Standard
	Cl	**37**		ug/L			3318464	3338058	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	390633	1	Standard
⎢	**Cr**	**52**	**-0.027**	ug/L	0.014	52	15747	14630	0	Standard
⎢	**Cr**	**53**	**0.027**	ug/L	0.007	26	81	127	10	Standard
⎣	**Mn**	**55**	**-0.011**	ug/L	0.001	9	555	274	8	Standard
⎡>	**Ge**	**72**		ug/L			19427	20550	2	KED
⎢	**Ni**	**60**	**-0.006**	ug/L	0.005	84	13	8	58	KED
⎢	**Ni**	**62**	**-0.028**	ug/L	0.029	103	8	4	98	KED
⎢	**Cu**	**63**	**0.000**	ug/L	0.002	627	28	31	18	KED
⎢	**Cu**	**65**	**-0.006**	ug/L	0.003	41	17	9	40	KED
⎢	**Zn**	**66**	**-0.021**	ug/L	0.010	46	33	27	10	KED
⎢	**Zn**	**67**	**0.007**	ug/L	0.018	268	3	4	24	KED
⎣	**As**	**75**	**-0.006**	ug/L	0.005	79	5	4	22	KED
	Y	**89**		ug/L			199932	187294	5	Standard
	Kr	**83**		ug/L			55	36	14	Standard
⎡>	**In-1**	**115**		ug/L			5415	5409	3	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.003	40	1	3	17	KED
⎣	**Cd**	**114**	**0.004**	ug/L	0.004	103	1	3	52	KED
⎡>	**Tb**	**159**		ug/L			457409	440470	3	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	12	92	58	9	Standard

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00024
Instrument: ICPMS2
Calibration Date: 01/09/2023 14:07

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Cadmium-114	0	0	0.1	670	10	599	20	599.75	50	565.94	100	571.19
Copper-65	0	0	0.5	1786	10	1667.8	20	1608.5	50	1586.8	100	1575.97
Zinc-67	0	0	6	71.83334	10	81.7	20	73.6	50	73.62	100	72.22

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00024	Instrument:	ICPMS2
Calibration Date:	01/09/2023 14:07		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Cadmium-114	500.98	49.5	0.9998		0.998	
Copper-65	1370.845	49.3	1.0000		0.998	
Zinc-67	62.16222	49.3	0.9998		0.998	

Analytical Resources, Incorporated
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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** SLAΦΦ97 **Cal:** GAΦΦΦ24

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	LΦ293		
		-CAL2	LΦ149		
		-CAL3	LΦ15Φ		
		-CAL4	LΦ151		
		-CAL5	LΦ294		
		-CAL6	LΦ153		
		-IBL1	—		
		-ICV1	LΦ243		
		-ICB1	LΦ293		
		-CCV1	LΦ294		
		-CCB1	LΦ293		
		-CRL1	LΦ149		
		-IFA1	K11871		Cr, S3?
		-IFB1	K11683		
		-HCV1	LΦ232		
		-HCV2	LΦ233		
		-IBL2	—		
		-CCV2			
		-CCB2			
		BKLΦ6Φ8-BLK1	SWN	20	
		-BS1			
		BKLΦΦ8Φ-BLK2			Pb only
		-BS2			
		22LΦ454-13	REN		Cu only

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ454-14	REN	5	Cu only
		↓ -Φ2	↓	10	↓
		22LΦ475-Φ1	↓	↓	Zn only
		22LΦ476-Φ1	↓	↓	↓
		SEQ-IBL3			
		-CCV3			
		↓ -CCB3			
		BLAΦ187-BLK1	REN		
		↓ -BS1	↓		
197→192		BLAΦ197-BLK1	↓		
↓		↓ -BS1	↓		
		23AΦΦ66-ΦIRE1	↓	5	Mn only
		23AΦ137-Φ1	↓	↓	
		23AΦ116-Φ1	↓	2	
		22LΦ199-43	SWN	20	Sc↑ - Not Needed
		↓ -44	↓	↓	↓ ↓
		SEQ-IBL4			
		-CCV4			
		↓ -CCB4			
		BLAΦ157-BLK1	REN		(Mn = ½RL) No Mn
		↓ -BS1	↓		↓
		23AΦΦΦ4-Φ1	↓	2	
		-Φ2	↓	↓	
		↓ -Φ3	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦΦΦ4-Φ4	REN	2	
		22LΦ199-45	SWN	20	Scf - Not Needed
		-46	↓	↓	
		-47	↓	↓	
		SEQ-IBL5			
		-CCV5			
		-CCB5			
	✓	BLAΦ157-BLK1	REN		Wrong sample run
		BLAΦ194-BLK1	↓		
		-BS1	↓		
		22LΦ329-Φ8	SWN	20	
		-Φ9	↓	↓	Scf - Not Needed
		-1Φ	↓	↓	↓ ↓
		-11	↓	↓	↓ ↓
		-12	↓	↓	
		-13	↓	↓	Scf - Not Needed
		-14	↓	↓	↓ ↓
		SEQ-CCV6			
		-CCB6			
	✓	-CAL1			
		-CCV7			
		-CCB7			
		22LΦ329-Φ7	SWN	20	Scf No Cr
		BKLΦ6Φ8-DUP1	↓	↓	↓ ↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ6Φ8-MS1	SWN	20	Sc↑ No Cr
		-MSD1	↓	↓	↓
		-PS1	↓	↓	60 mL K7409 ↓
		22HΦ525-Φ1	↓	↓	Not Needed
		-Φ2	↓	↓	↓
		-Φ3	↓	↓	Tb sl. noisy - %R + Analytes OK
		-Φ4	↓	↓	↓
		-Φ5	↓	↓	↓
		SEQ-CCV8			
		↓ -CCB8			
		BKLΦΦΦ6-SRL2	SWN	250	Zn only
		22IΦΦ52-25	↓	50	↓
		BKLΦΦΦ6-DUP2	↓	↓	↓
		-MS2	↓	↓	Sc↑ Not Needed / Zn %R↑
		-MSD2	↓	↓	↓
		-PS2	↓	↓	60 mL K7409 ↓
		22HΦ525-1Φ	↓	20	Sc↑ Not Needed
		-11	↓	↓	↓ ↓
		-12	↓	↓	↓ ↓
		-13	↓	↓	↓ ↓
		SEQ-CCV9			
		↓ -CCB9			
		BKLΦΦ35-SRL2	SWN	250	Zn only
		22IΦ188-Φ2	↓	50	↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦΦ35-DUP2	SWN	50	Zn only
		-MS2			Zn %R↑
		-MSD2			
		-PS2			60mL K7409
		22HΦ525-14		20	Sc↑ - Not Needed
		-1519			
		-2Φ			
		-21			
		SEQ-CCVA			
		-CCBA			
		22LΦ516-Φ1	REN	10	Zn↑/Sc,Tb noisy — Cd, Co, Ni only
		SEQ-IBL6			
		BKLΦΦ8Φ-SRL2	SWN	250	Pb, Zn only
		22IΦ188-2Φ		50	
		BKLΦΦ8Φ-DUP2			
		-MS2			
		-MSD2			Zn %R↑
		-PS2			60mL K7409
		-SRM2		100	Pb only
		SEQ-IBL7			
		-CCVB			
		-CCBB			
		BKLΦ683-SRL2	SWN	250	Zn only
		22JΦΦ97-31		50	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ683-DUP2	SWN	50	Zn only
		-MS2			
		-MSD2			
		-PS2			60.ul K7409
		22HΦ525-22		20	Sc↑ - Not Needed
		-23			
		-24			
		-31			
		SEQ-CCVC			Ni 62 sl. noisy - Not Needed
		-CCBC			
	✓	-CAL1			
		-CCVD			
		-CCBD			
		22HΦ525-32	SWN	20	Sc↑ - Not Needed
		-33			Pb noisy No Pb
		-34			
		-35			
		-36			
		-38			
		-39			
		22HΦ529-Φ2			
		-12			
		-13			
		SEQ-CCVE			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBE			
		22HΦ529-14	SWN	20	Sc↑ - Not Needed
		-15			
		-16			Cu↑ Zn almost↑ No Cu, Zn
		-17			
		-18			
		-22			
		-23			
		-24			
		-25			
		-26			
		SEQ-CCVF			
		↓ -CCBF			
		22HΦ529-3Φ	SWN	20	Sc↑ - Not Needed / Cu, Zn↑ No Cu, Zn
		-31			
		-32			
		-33			Sc↑ - Not Needed
		22IΦΦ52-Φ1			
		-Φ2			
		-Φ3			
		-Φ5			
		-Φ6			
		-11			
		SEQ-CCVG			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBG			
		22LΦ428-ΦIRE1	REN		Cu only
		23AΦΦΦ9-Φ4			
		-Φ6			
		-Φ8			
		-1Φ			
		-12			
		-Φ2			
		BLAΦ194-DUP1			
		-MS1			
		22IΦΦS2-13	SWN	20	Scl - Not Needed
		SEQ-CCVH			
		-CCBH			
	✓	-CAL1			
		-CCVI			
		-CCBI			
		23AΦΦΦ9-Φ1	REN		
		-Φ3			
		-Φ5			
		-Φ7			
		-Φ9			
		-11			
		22LΦ612-Φ1			
		~~BKL~~ MS 1/9/23			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLAΦ157-DUP1	REN		
		↓ -MS1	↓		Mn STL
		SEQ-IBL8			(Sc, Tb sl. noisy)
		↓ -CCVJ			
		↓ -CCBJ			
		23AΦΦ1Φ-Φ1	REN		
		23AΦΦ13-Φ1	↓	2	
		23AΦΦ16-Φ1		5	Zn ND No Zn
		↓ -Φ2			Zn↑ No Zn
		22LΦ522-Φ1		2	
		22LΦ536-Φ2			Zn↑ No Zn
		↓ -Φ1			↓ ↓
	✓	BLAΦ187-DUP1			Wrong QC Source
	✓	↓ -MS1	↓		↓
		SEQ-IBL9			(Cr53↑)
		↓ -CCVK			
		↓ -CCBK			
		22LΦ523-Φ1	REN		
		22LΦ54Φ-Φ1	↓		
		22LΦ542-Φ1			
		22LΦ543-Φ1			
		↓ -Φ2			
		↓ -Φ3		2	
		22LΦ545-Φ1	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ546-Φ1	REN		
		↓ -Φ2	↓		
		22LΦ547-Φ1	↓		Zn↑ No Zn
		SEQ-CCVL			
		↓ -CCBL			
		22LΦ549-Φ1	REN		
		↓ -Φ2	↓		
		22LΦ55Φ-Φ1	↓	2	
		22LΦ551-Φ1	↓		
		22LΦ552-Φ1	↓	2	
		22LΦ553-Φ1	↓		
		22LΦ554-Φ1	↓		
		↓ -Φ2	↓		
		22LΦ555-Φ1	↓		
		22LΦ556-Φ1	↓		
		SEQ-CCVM			
		↓ -CCBM			Th Sl. noisy-%R ΦAnalytes OK
		Rinse/DI			
			MB 1/9/23		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, January 09, 2023 12:54:15
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4860
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7877.3	7877.305	91.424	1.2	Standard
	In	114.9	64643.5	64643.462	238.075	0.4	Standard
	U	238.1	47383.8	47383.787	156.287	0.3	Standard
⌈	CeO	155.9	932.5	0.015	0.000	2.9	Standard
| >	Ce	139.9	62250.8	62250.803	118.292	0.2	Standard
⌊	Ce++	70.0	1513.6	0.024	0.000	2.0	Standard
	Bkgd	220.0	0.3	0.267	0.224	83.9	Standard

Current Conditions File Data

Current Value	Description
1.03	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.03	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/9/2023 12:54:12 PM
End Time: 1/9/2023 1:04:05 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 7877.30
Obtained Intensity (In 115): 64643.46
Obtained Intensity (U 238): 47383.79
Obtained Intensity (Bkgd 220): 0.27
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1513.61 / 62250.80)
Obtained Formula (CeO 156 / Ce 140): 0.015 (=932.50 / 62250.80)
Obtained RSD (Be 9): 0.0116
Obtained RSD (In 115): 0.0037
Obtained RSD (U 238): 0.0033

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
-0.18 mm	-0.18 mm	63018.69

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.03
Obtained Intensity (In 115): 63716.78
Obtained Formula (CeO 156 / Ce 140): 0.0186 (=1036.04 / 55570.87)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.701)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.704)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.91

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.98

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/9/2023 12:54:12 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 7877.30
		Obtained Intensity (In 115): 64643.46
		Obtained Intensity (U 238): 47383.79
		Obtained Intensity (Bkgd 220): 0.27
		Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1513.61 / 62250.80)
		Obtained Formula (CeO 156 / Ce 140): 0.015 (=932.50 / 62250.80)
		Obtained RSD (Be 9): 0.0116
		Obtained RSD (In 115): 0.0037
		Obtained RSD (U 238): 0.0033

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	-0.18 mm	-0.18 mm	63018.69

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 1/1.1/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 63716.78
		Obtained Formula (CeO 156 / Ce 140): 0.0186 (=1036.04 / 55570.87)
[Passed] Optimum value(s): 1.03

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.696)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.701)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.704)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.91

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	35977.2
Mg	24	41	-12.5	38259.2
In	115	41	-10	69818.2
Ce	140	41	-8	65670.6
Pb	208	41	-7	31510.7
U	238	41	-7	53463.9

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.985; Intercept = -12.98

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	26320.2
Mg	24	41	-12.5	22105.1
In	115	41	-11	41058.9
Ce	140	41	-8.5	49850.8
Pb	208	41	-6	26324.2
U	238	41	-6.5	39065.3

End Time: 1/9/2023 1:04:05 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, January 09, 2023 13:08:10
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4868
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	8379.1	8379.057	171.401	2.0	Standard
	In	114.9	68481.0	68481.031	817.063	1.2	Standard
	U	238.1	52863.0	52863.045	803.864	1.5	Standard
⌈	CeO	155.9	1122.3	0.018	0.001	5.9	Standard
| >	Ce	139.9	62978.9	62978.856	462.492	0.7	Standard
⌊	Ce++	70.0	1527.0	0.024	0.001	3.5	Standard
	Bkgd	220.0	0.0	0.033	0.075	223.6	Standard

Current Conditions File Data

Current Value	Description
1.03	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1050.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.03	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/9/2023 1:04:32 PM
End Time: 1/9/2023 1:10:14 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.993; Intercept = -13.78

KED Mode QID - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -12.94

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 8379.06
Obtained Intensity (In 115): 68481.03
Obtained Intensity (U 238): 52863.04
Obtained Intensity (Bkgd 220): 0.03
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1527.02 / 62978.86)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1122.31 / 62978.86)
Obtained RSD (Be 9): 0.0205
Obtained RSD (In 115): 0.0119
Obtained RSD (U 238): 0.0152

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/9/2023 1:04:32 PM

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.993; Intercept = -13.78

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13.5	35909.1
Mg	24	41	-12.5	35175.3
In	115	41	-9.5	69677.5
Ce	140	41	-8	64091.4
Pb	208	41	-7	32328.5
U	238	41	-7	53078.4

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -12.94

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	26997.5
Mg	24	41	-13	23399.1
In	115	41	-9.5	41203.3
Ce	140	41	-8.5	49706.3
Pb	208	41	-6	25041.9
U	238	41	-5.5	39177.6

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.

Intensity Criterion: Be 9 > 2000

Intensity Criterion: In 115 > 40000

Intensity Criterion: U 238 > 30000

Intensity Criterion: Bkgd 220 <= 1

Formula Criterion: Ce++ 70 / Ce 140 <= 0.03

Formula Criterion: CeO 156 / Ce 140 <= 0.025

RSD Criterion: Be 9.0122 < 0.05

RSD Criterion: In 114.904 < 0.05

RSD Criterion: U 238.05 < 0.05

```
        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 8379.06
                Obtained Intensity (In 115): 68481.03
                Obtained Intensity (U 238): 52863.04
                Obtained Intensity (Bkgd 220): 0.03
                Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1527.02 / 62978.86)
                Obtained Formula (CeO 156 / Ce 140): 0.018 (=1122.31 / 62978.86)
                Obtained RSD (Be 9): 0.0205
                Obtained RSD (In 115): 0.0119
                Obtained RSD (U 238): 0.0152

[Passed]  Optimum value(s): N/A

End Time: 1/9/2023 1:10:14 PM
```

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:07:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				34196	4	Standard
	Cl	**37**		ug/L				3578521	0	Standard
⌈>	**Sc**	**45**		ug/L				476701	2	Standard
|	**Cr**	**52**		ug/L				18596	1	Standard
|	**Cr**	**53**		ug/L				133	1	Standard
⌊	**Mn**	**55**		ug/L				801	3	Standard
⌈>	**Ge**	**72**		ug/L				24444	3	KED
|	**Ni**	**60**		ug/L				86	11	KED
|	**Ni**	**62**		ug/L				16	33	KED
|	**Cu**	**63**		ug/L				67	30	KED
|	**Cu**	**65**		ug/L				42	18	KED
|	**Zn**	**66**		ug/L				67	9	KED
|	**Zn**	**67**		ug/L				11	16	KED
⌊	**As**	**75**		ug/L				6	31	KED
	Y	**89**		ug/L				230853	2	Standard
	Kr	**83**		ug/L				65	12	Standard
⌈>	**In-1**	**115**		ug/L				6387	3	KED
|	**Cd**	**111**		ug/L				5	39	KED
⌊	**Cd**	**114**		ug/L				2	124	KED
⌈>	**Tb**	**159**		ug/L				540555	4	Standard
⌊	**Pb**	**208**		ug/L				256	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:11:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38817	4	Standard
	Cl	**37**		ug/L			3578521	3519195	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	468423	2	Standard
⎢	**Cr**	**52**	**0.500**	ug/L	0.019	3	18596	28651	2	Standard
⎢	**Cr**	**53**	**0.500**	ug/L	0.029	5	133	1223	3	Standard
⎣	**Mn**	**55**	**0.500**	ug/L	0.014	2	801	14624	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	25182	0	KED
⎢	**Ni**	**60**	**0.500**	ug/L	0.049	9	86	570	9	KED
⎢	**Ni**	**62**	**0.500**	ug/L	0.083	16	16	80	13	KED
⎢	**Cu**	**63**	**0.500**	ug/L	0.007	1	67	1772	0	KED
⎢	**Cu**	**65**	**0.500**	ug/L	0.033	6	42	893	6	KED
⎢	**Zn**	**66**	**6.000**	ug/L	0.046	0	67	2886	1	KED
⎢	**Zn**	**67**	**6.000**	ug/L	0.125	2	11	431	2	KED
⎣	**As**	**75**	**0.200**	ug/L	0.030	15	6	53	13	KED
	Y	**89**		ug/L			230853	226304	1	Standard
	Kr	**83**		ug/L			65	56	21	Standard
⎡>	**In-1**	**115**		ug/L			6387	6656	0	KED
⎢	**Cd**	**111**	**0.100**	ug/L	0.024	23	5	28	19	KED
⎣	**Cd**	**114**	**0.100**	ug/L	0.012	12	2	67	11	KED
⎡>	**Tb**	**159**		ug/L			540555	542831	1	Standard
⎣	**Pb**	**208**	**0.100**	ug/L	0.004	4	256	4784	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:15:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40740	1	Standard
	Cl	**37**		ug/L			3578521	3494818	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	484571	1	Standard
⎢	**Cr**	**52**	**9.997**	ug/L	0.321	3	18596	213767	1	Standard
⎢	**Cr**	**53**	**10.000**	ug/L	0.185	1	133	22750	0	Standard
⎣	**Mn**	**55**	**10.000**	ug/L	0.123	1	801	285680	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	24916	2	KED
⎢	**Ni**	**60**	**10.005**	ug/L	0.114	1	86	11813	1	KED
⎢	**Ni**	**62**	**10.008**	ug/L	0.089	0	16	1878	3	KED
⎢	**Cu**	**63**	**10.000**	ug/L	0.065	0	67	34340	1	KED
⎢	**Cu**	**65**	**10.000**	ug/L	0.127	1	42	16678	3	KED
⎢	**Zn**	**66**	**9.957**	ug/L	0.196	1	67	4640	3	KED
⎢	**Zn**	**67**	**10.390**	ug/L	0.697	6	11	817	6	KED
⎣	**As**	**75**	**10.000**	ug/L	0.279	2	6	2224	1	KED
	Y	**89**		ug/L			230853	234638	2	Standard
	Kr	**83**		ug/L			65	53	4	Standard
⎡>	**In-1**	**115**		ug/L			6387	6682	0	KED
⎢	**Cd**	**111**	**10.000**	ug/L	0.277	2	5	2504	2	KED
⎣	**Cd**	**114**	**10.000**	ug/L	0.078	0	2	5990	0	KED
⎡>	**Tb**	**159**		ug/L			540555	554130	2	Standard
⎣	**Pb**	**208**	**10.000**	ug/L	0.377	3	256	471120	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:20:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40191	3	Standard
	Cl	**37**		ug/L			3578521	3565622	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	474697	0	Standard
⎢	**Cr**	**52**	**19.981**	ug/L	0.115	0	18596	398674	0	Standard
⎢	**Cr**	**53**	**19.978**	ug/L	0.466	2	133	44199	1	Standard
⎣	**Mn**	**55**	**20.053**	ug/L	0.173	0	801	566409	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	24027	1	KED
⎢	**Ni**	**60**	**19.894**	ug/L	0.131	0	86	22107	2	KED
⎢	**Ni**	**62**	**19.997**	ug/L	0.520	2	16	3600	1	KED
⎢	**Cu**	**63**	**19.840**	ug/L	0.073	0	67	63613	1	KED
⎢	**Cu**	**65**	**20.006**	ug/L	0.337	1	42	32170	1	KED
⎢	**Zn**	**66**	**20.047**	ug/L	0.483	2	67	9001	2	KED
⎢	**Zn**	**67**	**19.880**	ug/L	0.213	1	11	1472	2	KED
⎣	**As**	**75**	**19.980**	ug/L	0.259	1	6	4265	2	KED
	Y	**89**		ug/L			230853	228603	0	Standard
	Kr	**83**		ug/L			65	46	21	Standard
⎡>	**In-1**	**115**		ug/L			6387	6656	0	KED
⎢	**Cd**	**111**	**19.922**	ug/L	0.068	0	5	4888	0	KED
⎣	**Cd**	**114**	**20.022**	ug/L	0.697	3	2	11995	2	KED
⎡>	**Tb**	**159**		ug/L			540555	552228	3	Standard
⎣	**Pb**	**208**	**19.967**	ug/L	0.583	2	256	931044	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:25:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32467	1	Standard
	Cl	**37**		ug/L			3578521	3716177	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	460271	2	Standard
|	**Cr**	**52**	**50.013**	ug/L	0.707	1	18596	941666	1	Standard
|	**Cr**	**53**	**49.979**	ug/L	1.016	2	133	106774	0	Standard
⌊	**Mn**	**55**	**49.849**	ug/L	0.789	1	801	1343516	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	24452	2	KED
|	**Ni**	**60**	**49.596**	ug/L	1.137	2	86	53766	0	KED
|	**Ni**	**62**	**49.792**	ug/L	1.643	3	16	8911	1	KED
|	**Cu**	**63**	**49.904**	ug/L	1.627	3	67	161111	2	KED
|	**Cu**	**65**	**49.750**	ug/L	1.209	2	42	79340	0	KED
|	**Zn**	**66**	**49.629**	ug/L	1.262	2	67	21819	1	KED
|	**Zn**	**67**	**49.833**	ug/L	0.789	1	11	3681	3	KED
⌊	**As**	**75**	**49.840**	ug/L	1.170	2	6	10641	0	KED
	Y	**89**		ug/L			230853	227806	1	Standard
	Kr	**83**		ug/L			65	61	20	Standard
⌈>	**In-1**	**115**		ug/L			6387	6472	2	KED
|	**Cd**	**111**	**49.806**	ug/L	1.334	2	5	11645	0	KED
⌊	**Cd**	**114**	**49.760**	ug/L	1.337	2	2	28297	0	KED
⌈>	**Tb**	**159**		ug/L			540555	551403	3	Standard
⌊	**Pb**	**208**	**49.596**	ug/L	1.314	2	256	2219143	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:31:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38647	1	Standard
	Cl	**37**		ug/L			3578521	3776465	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	467709	4	Standard
|	**Cr**	**52**	**99.772**	ug/L	1.970	1	18596	1875966	2	Standard
|	**Cr**	**53**	**100.062**	ug/L	3.731	3	133	217453	2	Standard
⌊	**Mn**	**55**	**99.560**	ug/L	1.432	1	801	2686216	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23908	1	KED
|	**Ni**	**60**	**100.265**	ug/L	1.751	1	86	107154	0	KED
|	**Ni**	**62**	**100.063**	ug/L	2.075	2	16	17535	0	KED
|	**Cu**	**63**	**100.256**	ug/L	1.256	1	67	319195	0	KED
|	**Cu**	**65**	**100.250**	ug/L	2.886	2	42	157597	1	KED
|	**Zn**	**66**	**99.534**	ug/L	2.599	2	67	42077	0	KED
|	**Zn**	**67**	**100.044**	ug/L	3.822	3	11	7222	2	KED
⌊	**As**	**75**	**100.610**	ug/L	3.167	3	6	21432	1	KED
	Y	**89**		ug/L			230853	227537	4	Standard
	Kr	**83**		ug/L			65	95	3	Standard
⌈>	**In-1**	**115**		ug/L			6387	6490	1	KED
|	**Cd**	**111**	**100.087**	ug/L	1.769	1	5	23533	0	KED
⌊	**Cd**	**114**	**100.040**	ug/L	3.583	3	2	57119	1	KED
⌈>	**Tb**	**159**		ug/L			540555	552023	4	Standard
⌊	**Pb**	**208**	**100.690**	ug/L	2.955	2	256	4615322	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:38:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32272	2	Standard
	Cl	**37**		ug/L			3578521	3564314	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	456612	3	Standard
|	**Cr**	**52**	**0.033**	ug/L	0.021	64	18596	18403	1	Standard
|	**Cr**	**53**	**-0.007**	ug/L	0.002	35	133	113	7	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.000	33	801	744	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	24027	0	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.009	197	86	80	12	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.011	40	16	11	16	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	40	67	53	10	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.004	43	42	27	21	KED
|	**Zn**	**66**	**0.013**	ug/L	0.056	417	67	71	32	KED
|	**Zn**	**67**	**0.038**	ug/L	0.015	38	11	13	7	KED
⌊	**As**	**75**	**0.017**	ug/L	0.013	75	6	10	26	KED
	Y	**89**		ug/L			230853	220679	0	Standard
	Kr	**83**		ug/L			65	65	14	Standard
⌈>	**In-1**	**115**		ug/L			6387	6633	3	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.005	61	5	3	31	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	1234	2	2	39	KED
⌈>	**Tb**	**159**		ug/L			540555	536786	3	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	101	256	243	5	Standard

Sample Information

Sample Date/Time: Monday, January 09, 2023 14:31:44
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.040	0.50	10	20	50	100
Cr	53	**1.0000**	0.005	0.50	10	20	50	100
Mn	55	**1.0000**	0.058	0.50	10	20	50	100
Ge	72							
Ni	60	**0.9999**	0.045	0.50	10	20	50	100
Ni	62	**1.0000**	0.007	0.50	10	20	50	100
Cu	63	**1.0000**	0.133	0.50	10	20	50	100
Cu	65	**1.0000**	0.066	0.50	10	20	50	100
Zn	66	**0.9999**	0.018	6.00	10	20	50	100
Zn	67	**1.0000**	0.003	6.00	10	20	50	100
As	75	**0.9999**	0.009	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.036	0.10	10	20	50	100
Cd	114	**1.0000**	0.088	0.10	10	20	50	100
Tb	159							
Pb	208	**0.9999**	0.083	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:45:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40786	0	Standard
	Cl	**37**		ug/L			3578521	3843677	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	480771	2	Standard
|	**Cr**	**52**	**49.787**	ug/L	0.809	1	18596	972046	2	Standard
|	**Cr**	**53**	**49.470**	ug/L	0.879	1	133	110654	2	Standard
⌊	**Mn**	**55**	**50.598**	ug/L	0.758	1	801	1404133	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	24498	2	KED
|	**Ni**	**60**	**50.483**	ug/L	0.573	1	86	55341	2	KED
|	**Ni**	**62**	**51.318**	ug/L	0.367	0	16	9224	1	KED
|	**Cu**	**63**	**50.128**	ug/L	1.072	2	67	163576	2	KED
|	**Cu**	**65**	**50.843**	ug/L	0.690	1	42	81935	1	KED
|	**Zn**	**66**	**49.855**	ug/L	1.360	2	67	21628	0	KED
|	**Zn**	**67**	**47.602**	ug/L	0.296	0	11	3528	1	KED
⌊	**As**	**75**	**47.022**	ug/L	1.054	2	6	10268	0	KED
	Y	**89**		ug/L			230853	234516	2	Standard
	Kr	**83**		ug/L			65	62	15	Standard
⌈>	**In-1**	**115**		ug/L			6387	6662	1	KED
|	**Cd**	**111**	**50.117**	ug/L	1.037	2	5	12099	1	KED
⌊	**Cd**	**114**	**49.409**	ug/L	0.747	1	2	28971	2	KED
⌈>	**Tb**	**159**		ug/L			540555	565959	4	Standard
⌊	**Pb**	**208**	**49.764**	ug/L	2.005	4	256	2338061	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:53:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32454	2	Standard
	Cl	**37**		ug/L			3578521	3485295	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	466733	1	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.031	434	18596	18334	1	Standard
|	**Cr**	**53**	**-0.003**	ug/L	0.002	69	133	124	4	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	215	801	766	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	23033	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.018	298	86	87	21	KED
|	**Ni**	**62**	**0.005**	ug/L	0.042	773	16	16	43	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.003	72	67	52	14	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.003	59	42	31	15	KED
|	**Zn**	**66**	**0.008**	ug/L	0.010	120	67	66	4	KED
|	**Zn**	**67**	**-0.001**	ug/L	0.086	11541	11	10	56	KED
⌊	**As**	**75**	**0.009**	ug/L	0.008	85	6	8	17	KED
	Y	**89**		ug/L			230853	229503	2	Standard
	Kr	**83**		ug/L			65	43	24	Standard
⌈>	**In-1**	**115**		ug/L			6387	6370	2	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.006	50	5	2	65	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	355	2	1	111	KED
⌈>	**Tb**	**159**		ug/L			540555	542547	3	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	174	256	249	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 14:57:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	31531	3	Standard
	Cl	**37**		ug/L			3578521	3763953	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	466768	2	Standard
⎢	**Cr**	**52**	**50.184**	ug/L	1.833	3	18596	950918	2	Standard
⎢	**Cr**	**53**	**49.150**	ug/L	0.936	1	133	106710	0	Standard
⎣	**Mn**	**55**	**50.141**	ug/L	0.727	1	801	1350699	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23938	3	KED
⎢	**Ni**	**60**	**49.815**	ug/L	0.710	1	86	53346	3	KED
⎢	**Ni**	**62**	**48.460**	ug/L	0.830	1	16	8512	3	KED
⎢	**Cu**	**63**	**48.874**	ug/L	1.270	2	67	155835	4	KED
⎢	**Cu**	**65**	**48.695**	ug/L	1.588	3	42	76641	2	KED
⎢	**Zn**	**66**	**49.464**	ug/L	1.551	3	67	20963	2	KED
⎢	**Zn**	**67**	**47.809**	ug/L	0.769	1	11	3464	5	KED
⎣	**As**	**75**	**49.303**	ug/L	0.930	1	6	10520	3	KED
	Y	**89**		ug/L			230853	227527	1	Standard
	Kr	**83**		ug/L			65	61	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6443	0	KED
⎢	**Cd**	**111**	**48.789**	ug/L	0.450	0	5	11394	0	KED
⎣	**Cd**	**114**	**49.216**	ug/L	0.940	1	2	27911	1	KED
⎡>	**Tb**	**159**		ug/L			540555	554668	3	Standard
⎣	**Pb**	**208**	**49.212**	ug/L	1.696	3	256	2266949	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:04:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32390	2	Standard
	Cl	**37**		ug/L			3578521	3476432	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	453367	1	Standard
⎢	**Cr**	**52**	**0.010**	ug/L	0.013	135	18596	17857	0	Standard
⎢	**Cr**	**53**	**-0.007**	ug/L	0.004	59	133	111	9	Standard
⎣	**Mn**	**55**	**-0.002**	ug/L	0.001	60	801	721	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	22661	3	KED
⎢	**Ni**	**60**	**0.008**	ug/L	0.020	251	86	87	19	KED
⎢	**Ni**	**62**	**0.012**	ug/L	0.054	446	16	17	48	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.002	62	67	54	13	KED
⎢	**Cu**	**65**	**-0.009**	ug/L	0.006	72	42	26	37	KED
⎢	**Zn**	**66**	**-0.020**	ug/L	0.016	82	67	54	14	KED
⎢	**Zn**	**67**	**-0.007**	ug/L	0.028	412	11	10	21	KED
⎣	**As**	**75**	**0.003**	ug/L	0.010	348	6	6	34	KED
	Y	**89**		ug/L			230853	220617	1	Standard
	Kr	**83**		ug/L			65	68	37	Standard
⎡>	**In-1**	**115**		ug/L			6387	6506	2	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.003	20	5	2	24	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.003	337	2	1	101	KED
⎡>	**Tb**	**159**		ug/L			540555	535661	4	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.001	6530	256	253	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:09:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	35948	1	Standard
	Cl	**37**		ug/L			3578521	3574068	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	463765	1	Standard
|	**Cr**	**52**	**0.523**	ug/L	0.027	5	18596	27754	2	Standard
|	**Cr**	**53**	**0.510**	ug/L	0.033	6	133	1229	7	Standard
⌊	**Mn**	**55**	**0.519**	ug/L	0.015	2	801	14652	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23422	2	KED
|	**Ni**	**60**	**0.418**	ug/L	0.031	7	86	520	6	KED
|	**Ni**	**62**	**0.511**	ug/L	0.040	7	16	103	7	KED
|	**Cu**	**63**	**0.509**	ug/L	0.016	3	67	1653	3	KED
|	**Cu**	**65**	**0.500**	ug/L	0.013	2	42	810	0	KED
|	**Zn**	**66**	**6.233**	ug/L	0.466	7	67	2642	7	KED
|	**Zn**	**67**	**5.398**	ug/L	0.365	6	11	392	7	KED
⌊	**As**	**75**	**0.208**	ug/L	0.013	6	6	49	4	KED
	Y	**89**		ug/L			230853	232415	3	Standard
	Kr	**83**		ug/L			65	60	6	Standard
⌈>	**In-1**	**115**		ug/L			6387	6420	2	KED
|	**Cd**	**111**	**0.097**	ug/L	0.014	13	5	27	12	KED
⌊	**Cd**	**114**	**0.088**	ug/L	0.015	17	2	51	13	KED
⌈>	**Tb**	**159**		ug/L			540555	540991	3	Standard
⌊	**Pb**	**208**	**0.103**	ug/L	0.008	7	256	4883	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:16:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	133365	2	Standard
	Cl	**37**		ug/L			3578521	9574072	0	Standard
>	**Sc**	**45**		ug/L			476701	478682	1	Standard
	Cr	**52**	**0.792**	ug/L	0.020	2	18596	33775	2	Standard
	Cr	**53**	**4.268**	ug/L	0.040	0	133	9627	0	Standard
	Mn	**55**	**0.093**	ug/L	0.001	0	801	3384	1	Standard
>	**Ge**	**72**		ug/L			24444	22875	0	KED
	Ni	**60**	**0.027**	ug/L	0.005	17	86	107	4	KED
	Ni	**62**	**0.101**	ug/L	0.060	59	16	32	31	KED
	Cu	**63**	**0.022**	ug/L	0.006	26	67	130	14	KED
	Cu	**65**	**0.019**	ug/L	0.006	29	42	68	12	KED
	Zn	**66**	**0.180**	ug/L	0.031	17	67	135	9	KED
	Zn	**67**	**0.121**	ug/L	0.075	61	11	19	26	KED
	As	**75**	**0.030**	ug/L	0.010	33	6	12	16	KED
	Y	**89**		ug/L			230853	228373	0	Standard
	Kr	**83**		ug/L			65	122	20	Standard
>	**In-1**	**115**		ug/L			6387	6624	0	KED
	Cd	**111**	**0.034**	ug/L	0.018	53	5	13	32	KED
	Cd	**114**	**0.050**	ug/L	0.017	33	2	31	31	KED
>	**Tb**	**159**		ug/L			540555	559407	2	Standard
	Pb	**208**	**0.027**	ug/L	0.002	7	256	1519	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:20:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	138783	3	Standard
	Cl	**37**		ug/L			3578521	9966369	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	485486	2	Standard
⎢	**Cr**	**52**	**20.026**	ug/L	0.174	0	18596	406193	2	Standard
⎢	**Cr**	**53**	**23.495**	ug/L	0.073	0	133	53138	2	Standard
⎣	**Mn**	**55**	**19.655**	ug/L	0.115	0	801	551293	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23742	0	KED
⎢	**Ni**	**60**	**20.042**	ug/L	0.397	1	86	21341	2	KED
⎢	**Ni**	**62**	**19.764**	ug/L	0.554	2	16	3453	3	KED
⎢	**Cu**	**63**	**19.545**	ug/L	0.202	1	67	61861	1	KED
⎢	**Cu**	**65**	**19.953**	ug/L	0.161	0	42	31194	1	KED
⎢	**Zn**	**66**	**18.915**	ug/L	0.159	0	67	7995	0	KED
⎢	**Zn**	**67**	**16.667**	ug/L	1.048	6	11	1204	5	KED
⎣	**As**	**75**	**19.326**	ug/L	0.115	0	6	4095	0	KED
	Y	**89**		ug/L			230853	229966	1	Standard
	Kr	**83**		ug/L			65	137	27	Standard
⎡>	**In-1**	**115**		ug/L			6387	6521	0	KED
⎢	**Cd**	**111**	**18.736**	ug/L	0.428	2	5	4431	1	KED
⎣	**Cd**	**114**	**18.778**	ug/L	0.504	2	2	10778	1	KED
⎡>	**Tb**	**159**		ug/L			540555	573723	2	Standard
⎣	**Pb**	**208**	**0.023**	ug/L	0.001	5	256	1349	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:25:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39074	3	Standard
	Cl	**37**		ug/L			3578521	3856935	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	456409	3	Standard
⎢	**Cr**	**52**	**193.343**	ug/L	2.966	1	18596	3531440	1	Standard
⎢	**Cr**	**53**	**198.015**	ug/L	5.129	2	133	419899	1	Standard
⎣	**Mn**	**55**	**191.807**	ug/L	3.718	1	801	5049101	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	22512	1	KED
⎢	**Ni**	**60**	**199.073**	ug/L	3.055	1	86	200278	1	KED
⎢	**Ni**	**62**	**192.794**	ug/L	2.871	1	16	31802	0	KED
⎢	**Cu**	**63**	**191.523**	ug/L	1.939	1	67	574163	0	KED
⎢	**Cu**	**65**	**193.460**	ug/L	4.472	2	42	286399	1	KED
⎢	**Zn**	**66**	**188.006**	ug/L	2.903	1	67	74799	0	KED
⎢	**Zn**	**67**	**186.011**	ug/L	2.602	1	11	12639	0	KED
⎣	**As**	**75**	**195.717**	ug/L	2.015	1	6	39265	0	KED
	Y	**89**		ug/L			230853	223300	2	Standard
	Kr	**83**		ug/L			65	142	11	Standard
⎡>	**In-1**	**115**		ug/L			6387	6273	2	KED
⎢	**Cd**	**111**	**190.924**	ug/L	4.507	2	5	43380	0	KED
⎣	**Cd**	**114**	**194.680**	ug/L	5.687	2	2	107437	1	KED
⎡>	**Tb**	**159**		ug/L			540555	552314	3	Standard
⎣	**Pb**	**208**	**195.436**	ug/L	5.153	2	256	8964706	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:30:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38343	3	Standard
	Cl	**37**		ug/L			3578521	3744087	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	417544	5	Standard
|	**Cr**	**52**	**294.258**	ug/L	9.636	3	18596	4904389	2	Standard
|	**Cr**	**53**	**299.702**	ug/L	5.314	1	133	581328	4	Standard
⌊	**Mn**	**55**	**290.052**	ug/L	11.115	3	801	6979432	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	22282	0	KED
|	**Ni**	**60**	**287.935**	ug/L	4.653	1	86	286696	1	KED
|	**Ni**	**62**	**289.121**	ug/L	9.466	3	16	47202	3	KED
|	**Cu**	**63**	**283.347**	ug/L	3.513	1	67	840765	0	KED
|	**Cu**	**65**	**277.320**	ug/L	6.276	2	42	406371	2	KED
|	**Zn**	**66**	**273.038**	ug/L	5.484	2	67	107507	2	KED
|	**Zn**	**67**	**275.612**	ug/L	6.869	2	11	18534	2	KED
⌊	**As**	**75**	**290.018**	ug/L	2.768	0	6	57589	0	KED
	Y	**89**		ug/L			230853	203066	6	Standard
	Kr	**83**		ug/L			65	189	25	Standard
⌈>	**In-1**	**115**		ug/L			6387	6115	1	KED
|	**Cd**	**111**	**277.844**	ug/L	0.889	0	5	61559	0	KED
⌊	**Cd**	**114**	**281.147**	ug/L	1.593	0	2	151309	0	KED
⌈>	**Tb**	**159**		ug/L			540555	511728	6	Standard
⌊	**Pb**	**208**	**296.866**	ug/L	18.243	6	256	12588201	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:37:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	38232	2	Standard
	Cl	**37**		ug/L			3578521	3767099	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	473134	1	Standard
⎢	**Cr**	**52**	**0.028**	ug/L	0.012	41	18596	18982	0	Standard
⎢	**Cr**	**53**	**0.058**	ug/L	0.007	12	133	258	5	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.001	43	801	721	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	24085	0	KED
⎢	**Ni**	**60**	**-0.061**	ug/L	0.008	12	86	19	43	KED
⎢	**Ni**	**62**	**-0.056**	ug/L	0.013	22	16	6	34	KED
⎢	**Cu**	**63**	**0.018**	ug/L	0.002	10	67	124	4	KED
⎢	**Cu**	**65**	**0.013**	ug/L	0.009	64	42	62	21	KED
⎢	**Zn**	**66**	**0.014**	ug/L	0.039	272	67	72	22	KED
⎢	**Zn**	**67**	**0.020**	ug/L	0.015	74	11	12	8	KED
⎣	**As**	**75**	**0.014**	ug/L	0.012	83	6	9	25	KED
	Y	**89**		ug/L			230853	226205	2	Standard
	Kr	**83**		ug/L			65	48	14	Standard
⎡>	**In-1**	**115**		ug/L			6387	6471	1	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.004	30	5	1	50	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.002	152	2	3	34	KED
⎡>	**Tb**	**159**		ug/L			540555	546900	2	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	22	256	295	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:43:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33964	2	Standard
	Cl	**37**		ug/L			3578521	3844252	4	Standard
⎡>	**Sc**	**45**		ug/L			476701	480369	1	Standard
⎢	**Cr**	**52**	**48.855**	ug/L	0.513	1	18596	953430	1	Standard
⎢	**Cr**	**53**	**49.077**	ug/L	0.428	0	133	109674	0	Standard
⎣	**Mn**	**55**	**50.517**	ug/L	0.452	0	801	1400700	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	24890	0	KED
⎢	**Ni**	**60**	**49.269**	ug/L	0.541	1	86	54872	1	KED
⎢	**Ni**	**62**	**49.893**	ug/L	1.722	3	16	9113	3	KED
⎢	**Cu**	**63**	**49.049**	ug/L	0.590	1	67	162640	1	KED
⎢	**Cu**	**65**	**49.669**	ug/L	0.938	1	42	81338	1	KED
⎢	**Zn**	**66**	**50.175**	ug/L	0.106	0	67	22123	0	KED
⎢	**Zn**	**67**	**50.188**	ug/L	1.538	3	11	3779	3	KED
⎣	**As**	**75**	**49.548**	ug/L	0.333	0	6	10996	0	KED
	Y	**89**		ug/L			230853	235771	3	Standard
	Kr	**83**		ug/L			65	59	11	Standard
⎡>	**In-1**	**115**		ug/L			6387	6848	2	KED
⎢	**Cd**	**111**	**49.936**	ug/L	1.831	3	5	12386	0	KED
⎣	**Cd**	**114**	**50.024**	ug/L	2.132	4	2	30130	1	KED
⎡>	**Tb**	**159**		ug/L			540555	563345	3	Standard
⎣	**Pb**	**208**	**49.922**	ug/L	1.242	2	256	2335962	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 15:50:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33015	0	Standard
	Cl	**37**		ug/L			3578521	3704542	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	474926	1	Standard
|	**Cr**	**52**	**-0.002**	ug/L	0.027	1536	18596	18496	3	Standard
|	**Cr**	**53**	**0.034**	ug/L	0.005	15	133	207	4	Standard
⌊	**Mn**	**55**	**-0.003**	ug/L	0.001	54	801	726	4	Standard
⌈>	**Ge**	**72**		ug/L			24444	24129	0	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.004	46	86	75	5	KED
|	**Ni**	**62**	**0.005**	ug/L	0.011	219	16	17	11	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.002	62	67	56	11	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.004	50	42	29	19	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.022	568	67	64	13	KED
|	**Zn**	**67**	**-0.024**	ug/L	0.025	103	11	9	20	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.015	305	6	5	57	KED
	Y	**89**		ug/L			230853	233305	1	Standard
	Kr	**83**		ug/L			65	44	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6405	1	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.010	153	5	3	68	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.007	679	2	2	132	KED
⌈>	**Tb**	**159**		ug/L			540555	547515	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	160	256	233	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 15:59:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	46324	2	Standard
	Cl	37		ug/L			3578521	3738945	3	Standard
⌈>	Sc	45		ug/L			476701	484141	3	Standard
|	Cr	52	0.059	ug/L	0.011	18	18596	20016	3	Standard
|	Cr	53	0.032	ug/L	0.004	13	133	206	1	Standard
⌊	Mn	55	0.003	ug/L	0.003	90	801	893	4	Standard
⌈>	Ge	72		ug/L			24444	24924	1	KED
|	Ni	60	-0.064	ug/L	0.005	8	86	17	33	KED
|	Ni	62	-0.068	ug/L	0.012	18	16	4	49	KED
|	Cu	63	-0.009	ug/L	0.001	5	67	39	5	KED
|	Cu	65	-0.012	ug/L	0.003	26	42	24	22	KED
|	Zn	66	-0.059	ug/L	0.014	22	67	42	14	KED
|	Zn	67	-0.054	ug/L	0.026	48	11	7	25	KED
⌊	As	75	-0.006	ug/L	0.008	129	6	5	35	KED
	Y	89		ug/L			230853	233132	3	Standard
	Kr	83		ug/L			65	46	20	Standard
⌈>	In-1	115		ug/L			6387	7032	1	KED
|	Cd	111	-0.016	ug/L	0.002	14	5	1	34	KED
⌊	Cd	114	0.000	ug/L	0.006	1324	2	2	134	KED
⌈>	Tb	159		ug/L			540555	554009	4	Standard
⌊	Pb	208	-0.002	ug/L	0.000	15	256	178	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:03:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	40988	0	Standard
	Cl	37		ug/L			3578521	3629257	0	Standard
⌈>	Sc	45		ug/L			476701	459012	2	Standard
|	Cr	52	26.943	ug/L	0.797	2	18596	510278	0	Standard
|	Cr	53	26.559	ug/L	0.543	2	133	56774	2	Standard
⌊	Mn	55	27.237	ug/L	0.754	2	801	721705	0	Standard
⌈>	Ge	72		ug/L			24444	23613	0	KED
|	Ni	60	26.460	ug/L	0.460	1	86	27993	1	KED
|	Ni	62	26.261	ug/L	0.868	3	16	4557	2	KED
|	Cu	63	26.325	ug/L	0.339	1	67	82836	0	KED
|	Cu	65	27.041	ug/L	0.490	1	42	42027	1	KED
|	Zn	66	81.867	ug/L	1.187	1	67	34202	0	KED
|	Zn	67	76.445	ug/L	1.246	1	11	5455	1	KED
⌊	As	75	25.218	ug/L	0.451	1	6	5312	1	KED
	Y	89		ug/L			230853	225975	1	Standard
	Kr	83		ug/L			65	60	17	Standard
⌈>	In-1	115		ug/L			6387	6475	1	KED
|	Cd	111	25.974	ug/L	0.726	2	5	6097	1	KED
⌊	Cd	114	25.913	ug/L	0.100	0	2	14770	1	KED
⌈>	Tb	159		ug/L			540555	535290	2	Standard
⌊	Pb	208	27.333	ug/L	0.697	2	256	1215549	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:15:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	40306	2	Standard
	Cl	**37**		ug/L			3578521	3599694	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	457934	2	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.033	168	18596	18217	1	Standard
|	**Cr**	**53**	**0.022**	ug/L	0.003	15	133	175	3	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.001	10	801	938	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23903	1	KED
|	**Ni**	**60**	**-0.070**	ug/L	0.004	5	86	9	40	KED
|	**Ni**	**62**	**-0.070**	ug/L	0.011	15	16	3	50	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	41	67	53	10	KED
|	**Cu**	**65**	**-0.012**	ug/L	0.004	31	42	23	26	KED
|	**Zn**	**66**	**-0.037**	ug/L	0.020	54	67	50	15	KED
|	**Zn**	**67**	**-0.049**	ug/L	0.025	51	11	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	855	6	6	18	KED
	Y	**89**		ug/L			230853	222370	2	Standard
	Kr	**83**		ug/L			65	43	19	Standard
⌈>	**In-1**	**115**		ug/L			6387	6482	2	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.006	75	5	3	45	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	169	2	3	37	KED
⌈>	**Tb**	**159**		ug/L			540555	532770	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	121	256	218	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:20:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39701	3	Standard
	Cl	**37**		ug/L			3578521	3641610	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	482467	1	Standard
|	**Cr**	**52**	**27.183**	ug/L	0.195	0	18596	541167	1	Standard
|	**Cr**	**53**	**27.154**	ug/L	0.144	0	133	61017	2	Standard
⌊	**Mn**	**55**	**27.761**	ug/L	0.471	1	801	773317	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	23902	1	KED
|	**Ni**	**60**	**27.923**	ug/L	0.516	1	86	29896	0	KED
|	**Ni**	**62**	**27.174**	ug/L	0.913	3	16	4775	4	KED
|	**Cu**	**63**	**26.665**	ug/L	0.528	1	67	84932	2	KED
|	**Cu**	**65**	**27.045**	ug/L	0.587	2	42	42543	1	KED
|	**Zn**	**66**	**84.993**	ug/L	2.024	2	67	35935	1	KED
|	**Zn**	**67**	**77.004**	ug/L	1.713	2	11	5563	3	KED
⌊	**As**	**75**	**25.553**	ug/L	0.662	2	6	5447	1	KED
	Y	**89**		ug/L			230853	234135	0	Standard
	Kr	**83**		ug/L			65	66	13	Standard
⌈>	**In-1**	**115**		ug/L			6387	6720	1	KED
|	**Cd**	**111**	**25.939**	ug/L	0.364	1	5	6320	1	KED
⌊	**Cd**	**114**	**26.196**	ug/L	0.419	1	2	15495	1	KED
⌈>	**Tb**	**159**		ug/L			540555	544321	3	Standard
⌊	**Pb**	**208**	**28.164**	ug/L	1.019	3	256	1273060	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 16:24:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34600	3	Standard
	Cl	**37**		ug/L			3578521	3567331	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	449997	1	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.027	351	18596	17692	3	Standard
|	**Cr**	**53**	**0.027**	ug/L	0.006	22	133	183	6	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.003	160	801	801	7	Standard
⌈>	**Ge**	**72**		ug/L			24444	23602	1	KED
|	**Ni**	**60**	**0.016**	ug/L	0.008	49	86	100	9	KED
|	**Ni**	**62**	**0.103**	ug/L	0.029	28	16	33	14	KED
|	**Cu**	**63**	**37.085**	ug/L	0.056	0	67	116624	1	KED
|	**Cu**	**65**	**37.112**	ug/L	0.436	1	42	57637	0	KED
|	**Zn**	**66**	**0.486**	ug/L	0.058	11	67	267	10	KED
|	**Zn**	**67**	**0.416**	ug/L	0.009	2	11	40	2	KED
⌊	**As**	**75**	**0.011**	ug/L	0.014	131	6	8	35	KED
	Y	**89**		ug/L			230853	221057	2	Standard
	Kr	**83**		ug/L			65	59	8	Standard
⌈>	**In-1**	**115**		ug/L			6387	6612	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.011	75	5	1	132	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	62	2	0	224	KED
⌈>	**Tb**	**159**		ug/L			540555	521310	3	Standard
⌊	**Pb**	**208**	**0.087**	ug/L	0.004	4	256	3998	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-14
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 16:28:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	37032	4	Standard
	Cl	**37**		ug/L			3578521	3612709	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	461936	0	Standard
|	**Cr**	**52**	**0.078**	ug/L	0.017	21	18596	19452	1	Standard
|	**Cr**	**53**	**0.124**	ug/L	0.008	6	133	394	4	Standard
⌊	**Mn**	**55**	**0.214**	ug/L	0.006	2	801	6472	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23448	2	KED
|	**Ni**	**60**	**0.007**	ug/L	0.004	61	86	90	3	KED
|	**Ni**	**62**	**0.160**	ug/L	0.059	37	16	43	21	KED
|	**Cu**	**63**	**57.999**	ug/L	2.111	3	67	181076	2	KED
|	**Cu**	**65**	**57.765**	ug/L	2.160	3	42	89070	2	KED
|	**Zn**	**66**	**1.330**	ug/L	0.104	7	67	614	5	KED
|	**Zn**	**67**	**1.213**	ug/L	0.248	20	11	96	15	KED
⌊	**As**	**75**	**0.104**	ug/L	0.008	7	6	28	8	KED
	Y	**89**		ug/L			230853	223875	0	Standard
	Kr	**83**		ug/L			65	55	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6464	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.008	134	5	3	50	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	167	2	3	54	KED
⌈>	**Tb**	**159**		ug/L			540555	531880	4	Standard
⌊	**Pb**	**208**	**0.610**	ug/L	0.026	4	256	27175	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0454-02
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:33:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	36675	1	Standard
	Cl	**37**		ug/L			3578521	3628064	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	473048	1	Standard
|	**Cr**	**52**	**0.048**	ug/L	0.014	28	18596	19353	0	Standard
|	**Cr**	**53**	**0.057**	ug/L	0.010	18	133	258	7	Standard
⌊	**Mn**	**55**	**0.018**	ug/L	0.002	12	801	1282	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	24540	2	KED
|	**Ni**	**60**	**-0.014**	ug/L	0.006	47	86	71	11	KED
|	**Ni**	**62**	**0.134**	ug/L	0.011	8	16	40	7	KED
|	**Cu**	**63**	**54.182**	ug/L	1.116	2	67	177056	0	KED
|	**Cu**	**65**	**55.386**	ug/L	2.140	3	42	89354	0	KED
|	**Zn**	**66**	**4.384**	ug/L	0.306	6	67	1965	4	KED
|	**Zn**	**67**	**3.472**	ug/L	0.369	10	11	267	7	KED
⌊	**As**	**75**	**0.016**	ug/L	0.007	43	6	10	15	KED
	Y	**89**		ug/L			230853	231963	1	Standard
	Kr	**83**		ug/L			65	52	21	Standard
⌈>	**In-1**	**115**		ug/L			6387	6706	1	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.006	52	5	2	57	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	442	2	2	73	KED
⌈>	**Tb**	**159**		ug/L			540555	547136	2	Standard
⌊	**Pb**	**208**	**0.038**	ug/L	0.001	3	256	1983	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0475-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:37:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	35647	2	Standard
	Cl	**37**		ug/L			3578521	3575993	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	454965	2	Standard
|	**Cr**	**52**	**0.074**	ug/L	0.017	23	18596	19081	0	Standard
|	**Cr**	**53**	**0.093**	ug/L	0.003	3	133	324	0	Standard
⌊	**Mn**	**55**	**0.460**	ug/L	0.011	2	801	12835	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23475	0	KED
|	**Ni**	**60**	**-0.015**	ug/L	0.018	114	86	66	27	KED
|	**Ni**	**62**	**0.000**	ug/L	0.055	28890	16	15	59	KED
|	**Cu**	**63**	**0.467**	ug/L	0.034	7	67	1525	6	KED
|	**Cu**	**65**	**0.506**	ug/L	0.051	10	42	822	9	KED
|	**Zn**	**66**	**60.664**	ug/L	1.748	2	67	25213	2	KED
|	**Zn**	**67**	**52.682**	ug/L	0.456	0	11	3741	1	KED
⌊	**As**	**75**	**0.065**	ug/L	0.006	8	6	20	6	KED
	Y	**89**		ug/L			230853	221691	1	Standard
	Kr	**83**		ug/L			65	52	16	Standard
⌈>	**In-1**	**115**		ug/L			6387	6478	1	KED
|	**Cd**	**111**	**0.120**	ug/L	0.009	7	5	33	4	KED
⌊	**Cd**	**114**	**0.137**	ug/L	0.039	28	2	80	26	KED
⌈>	**Tb**	**159**		ug/L			540555	518561	3	Standard
⌊	**Pb**	**208**	**0.030**	ug/L	0.003	8	256	1544	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0476-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 16:42:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	36008	4	Standard
	Cl	**37**		ug/L			3578521	3564717	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	466106	4	Standard
|	**Cr**	**52**	**0.071**	ug/L	0.035	48	18596	19499	4	Standard
|	**Cr**	**53**	**0.082**	ug/L	0.001	1	133	307	3	Standard
⌊	**Mn**	**55**	**0.419**	ug/L	0.004	1	801	12045	5	Standard
⌈>	**Ge**	**72**		ug/L			24444	23777	1	KED
|	**Ni**	**60**	**-0.035**	ug/L	0.005	13	86	46	11	KED
|	**Ni**	**62**	**-0.016**	ug/L	0.022	136	16	13	28	KED
|	**Cu**	**63**	**0.424**	ug/L	0.025	5	67	1408	6	KED
|	**Cu**	**65**	**0.439**	ug/L	0.026	5	42	727	4	KED
|	**Zn**	**66**	**57.739**	ug/L	2.119	3	67	24303	2	KED
|	**Zn**	**67**	**51.530**	ug/L	1.622	3	11	3706	3	KED
⌊	**As**	**75**	**0.044**	ug/L	0.020	44	6	15	25	KED
	Y	**89**		ug/L			230853	225384	4	Standard
	Kr	**83**		ug/L			65	45	15	Standard
⌈>	**In-1**	**115**		ug/L			6387	6319	0	KED
|	**Cd**	**111**	**0.103**	ug/L	0.011	10	5	28	8	KED
⌊	**Cd**	**114**	**0.170**	ug/L	0.019	10	2	96	10	KED
⌈>	**Tb**	**159**		ug/L			540555	530176	5	Standard
⌊	**Pb**	**208**	**0.027**	ug/L	0.001	4	256	1418	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:46:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33771	3	Standard
	Cl	**37**		ug/L			3578521	3526406	3	Standard
⎡>	**Sc**	**45**		ug/L			476701	447002	1	Standard
⎢	**Cr**	**52**	**0.010**	ug/L	0.022	214	18596	17617	0	Standard
⎢	**Cr**	**53**	**0.008**	ug/L	0.000	4	133	142	1	Standard
⎣	**Mn**	**55**	**-0.008**	ug/L	0.000	5	801	558	2	Standard
⎡>	**Ge**	**72**		ug/L			24444	23310	1	KED
⎢	**Ni**	**60**	**-0.066**	ug/L	0.002	2	86	13	14	KED
⎢	**Ni**	**62**	**-0.070**	ug/L	0.011	16	16	3	50	KED
⎢	**Cu**	**63**	**-0.007**	ug/L	0.002	30	67	42	15	KED
⎢	**Cu**	**65**	**-0.017**	ug/L	0.005	29	42	13	55	KED
⎢	**Zn**	**66**	**-0.080**	ug/L	0.019	23	67	31	24	KED
⎢	**Zn**	**67**	**-0.056**	ug/L	0.015	27	11	6	15	KED
⎣	**As**	**75**	**0.004**	ug/L	0.004	100	6	7	11	KED
	Y	**89**		ug/L			230853	216880	3	Standard
	Kr	**83**		ug/L			65	54	24	Standard
⎡>	**In-1**	**115**		ug/L			6387	6437	1	KED
⎢	**Cd**	**111**	**-0.010**	ug/L	0.000	1	5	2	0	KED
⎣	**Cd**	**114**	**0.006**	ug/L	0.003	57	2	5	33	KED
⎡>	**Tb**	**159**		ug/L			540555	514991	3	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.001	36	256	182	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:51:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	31671	0	Standard
	Cl	**37**		ug/L			3578521	3735267	2	Standard
⎡>	**Sc**	**45**		ug/L			476701	451697	0	Standard
⎢	**Cr**	**52**	**49.270**	ug/L	1.157	2	18596	904130	2	Standard
⎢	**Cr**	**53**	**49.738**	ug/L	0.169	0	133	104529	1	Standard
⎣	**Mn**	**55**	**50.464**	ug/L	0.445	0	801	1315691	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	23403	1	KED
⎢	**Ni**	**60**	**49.983**	ug/L	1.151	2	86	52338	2	KED
⎢	**Ni**	**62**	**49.539**	ug/L	0.997	2	16	8506	1	KED
⎢	**Cu**	**63**	**48.754**	ug/L	1.515	3	67	151947	1	KED
⎢	**Cu**	**65**	**49.050**	ug/L	0.947	1	42	75517	1	KED
⎢	**Zn**	**66**	**50.197**	ug/L	1.427	2	67	20804	1	KED
⎢	**Zn**	**67**	**49.599**	ug/L	0.379	0	11	3512	1	KED
⎣	**As**	**75**	**49.586**	ug/L	0.877	1	6	10345	1	KED
	Y	**89**		ug/L			230853	223742	0	Standard
	Kr	**83**		ug/L			65	54	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6419	1	KED
⎢	**Cd**	**111**	**49.647**	ug/L	0.891	1	5	11551	1	KED
⎣	**Cd**	**114**	**50.339**	ug/L	0.757	1	2	28440	1	KED
⎡>	**Tb**	**159**		ug/L			540555	523439	4	Standard
⎣	**Pb**	**208**	**51.000**	ug/L	1.813	3	256	2216343	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 16:59:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32521	4	Standard
	Cl	**37**		ug/L			3578521	3548973	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	448574	1	Standard
⎢	**Cr**	**52**	**0.014**	ug/L	0.007	49	18596	17744	1	Standard
⎢	**Cr**	**53**	**0.001**	ug/L	0.005	711	133	126	9	Standard
⎣	**Mn**	**55**	**-0.004**	ug/L	0.002	49	801	656	6	Standard
⎡>	**Ge**	**72**		ug/L			24444	24308	1	KED
⎢	**Ni**	**60**	**0.013**	ug/L	0.016	120	86	100	18	KED
⎢	**Ni**	**62**	**-0.004**	ug/L	0.043	1205	16	15	49	KED
⎢	**Cu**	**63**	**-0.005**	ug/L	0.003	56	67	50	20	KED
⎢	**Cu**	**65**	**-0.015**	ug/L	0.006	37	42	18	47	KED
⎢	**Zn**	**66**	**0.015**	ug/L	0.022	142	67	73	14	KED
⎢	**Zn**	**67**	**-0.043**	ug/L	0.013	30	11	8	13	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.008	1396	6	6	25	KED
	Y	**89**		ug/L			230853	219778	2	Standard
	Kr	**83**		ug/L			65	47	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6729	2	KED
⎢	**Cd**	**111**	**-0.014**	ug/L	0.004	28	5	1	50	KED
⎣	**Cd**	**114**	**-0.003**	ug/L	0.002	62	2	0	224	KED
⎡>	**Tb**	**159**		ug/L			540555	518077	4	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	54	256	219	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:06:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	39209	2	Standard
	Cl	37		ug/L			3578521	3528331	1	Standard
>	Sc	45		ug/L			476701	448579	2	Standard
	Cr	52	0.275	ug/L	0.033	11	18596	22415	3	Standard
	Cr	53	0.248	ug/L	0.016	6	133	641	5	Standard
	Mn	55	0.311	ug/L	0.006	2	801	8803	2	Standard
>	Ge	72		ug/L			24444	23782	0	KED
	Ni	60	-0.062	ug/L	0.012	19	86	18	68	KED
	Ni	62	-0.070	ug/L	0.000	0	16	3	0	KED
	Cu	63	0.012	ug/L	0.002	13	67	104	4	KED
	Cu	65	0.004	ug/L	0.004	82	42	48	12	KED
	Zn	66	0.394	ug/L	0.040	10	67	231	7	KED
	Zn	67	0.332	ug/L	0.146	44	11	34	30	KED
	As	75	0.005	ug/L	0.010	192	6	7	28	KED
	Y	89		ug/L			230853	221360	2	Standard
	Kr	83		ug/L			65	42	6	Standard
>	In-1	115		ug/L			6387	6672	1	KED
	Cd	111	-0.015	ug/L	0.004	28	5	1	69	KED
	Cd	114	0.002	ug/L	0.003	195	2	3	56	KED
>	Tb	159		ug/L			540555	517458	3	Standard
	Pb	208	0.001	ug/L	0.000	30	256	269	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:10:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	42130	1	Standard
	Cl	37		ug/L			3578521	3799089	1	Standard
⌈>	Sc	45		ug/L			476701	469683	3	Standard
|	Cr	52	25.810	ug/L	0.522	2	18596	501122	3	Standard
|	Cr	53	25.728	ug/L	0.279	1	133	56291	4	Standard
⌊	Mn	55	26.271	ug/L	0.102	0	801	712608	3	Standard
⌈>	Ge	72		ug/L			24444	23159	0	KED
|	Ni	60	26.840	ug/L	0.383	1	86	27849	1	KED
|	Ni	62	25.964	ug/L	0.743	2	16	4420	3	KED
|	Cu	63	25.595	ug/L	0.865	3	67	78981	2	KED
|	Cu	65	26.199	ug/L	0.371	1	42	39936	0	KED
|	Zn	66	88.484	ug/L	1.498	1	67	36256	2	KED
|	Zn	67	80.444	ug/L	0.941	1	11	5629	0	KED
⌊	As	75	25.560	ug/L	0.154	0	6	5280	0	KED
	Y	89		ug/L			230853	229560	2	Standard
	Kr	83		ug/L			65	53	14	Standard
⌈>	In-1	115		ug/L			6387	6571	3	KED
|	Cd	111	25.362	ug/L	0.860	3	5	6040	1	KED
⌊	Cd	114	25.591	ug/L	0.979	3	2	14792	0	KED
⌈>	Tb	159		ug/L			540555	547406	3	Standard
⌊	Pb	208	26.145	ug/L	0.822	3	256	1188596	0	Standard

BLA0192

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~BLA0197~~-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:14:54

MB 1/9/23

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41552	2	Standard
	Cl	**37**		ug/L			3578521	3541733	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	442805	0	Standard
|	**Cr**	**52**	**0.112**	ug/L	0.011	9	18596	19252	1	Standard
|	**Cr**	**53**	**0.064**	ug/L	0.008	13	133	256	6	Standard
⌊	**Mn**	**55**	**0.255**	ug/L	0.004	1	801	7246	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23525	0	KED
|	**Ni**	**60**	**-0.062**	ug/L	0.007	12	86	18	41	KED
|	**Ni**	**62**	**-0.067**	ug/L	0.028	41	16	4	107	KED
|	**Cu**	**63**	**0.020**	ug/L	0.005	24	67	128	12	KED
|	**Cu**	**65**	**0.010**	ug/L	0.008	80	42	55	21	KED
|	**Zn**	**66**	**0.354**	ug/L	0.082	23	67	212	16	KED
|	**Zn**	**67**	**0.356**	ug/L	0.207	58	11	36	39	KED
⌊	**As**	**75**	**0.014**	ug/L	0.013	89	6	9	28	KED
	Y	**89**		ug/L			230853	217530	3	Standard
	Kr	**83**		ug/L			65	43	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6417	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.004	30	5	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	266	2	2	35	KED
⌈>	**Tb**	**159**		ug/L			540555	506188	4	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	14	256	370	7	Standard

BLA0192

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~BLA0197~~-BS1

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, January 09, 2023 17:19:16

MB 1/9/23

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41327	2	Standard
	Cl	**37**		ug/L			3578521	3591995	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	447825	2	Standard
|	**Cr**	**52**	**25.477**	ug/L	0.581	2	18596	471780	1	Standard
|	**Cr**	**53**	**25.000**	ug/L	0.317	1	133	52141	1	Standard
⌊	**Mn**	**55**	**25.902**	ug/L	0.729	2	801	669814	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23216	1	KED
|	**Ni**	**60**	**25.895**	ug/L	0.592	2	86	26933	1	KED
|	**Ni**	**62**	**25.597**	ug/L	0.549	2	16	4367	0	KED
|	**Cu**	**63**	**25.953**	ug/L	0.718	2	67	80280	1	KED
|	**Cu**	**65**	**26.341**	ug/L	1.148	4	42	40236	2	KED
|	**Zn**	**66**	**84.556**	ug/L	1.267	1	67	34729	1	KED
|	**Zn**	**67**	**77.096**	ug/L	0.585	0	11	5409	2	KED
⌊	**As**	**75**	**25.243**	ug/L	0.242	0	6	5228	1	KED
	Y	**89**		ug/L			230853	218917	2	Standard
	Kr	**83**		ug/L			65	53	37	Standard
⌈>	**In-1**	**115**		ug/L			6387	6535	2	KED
|	**Cd**	**111**	**25.386**	ug/L	0.620	2	5	6013	1	KED
⌊	**Cd**	**114**	**25.184**	ug/L	0.843	3	2	14481	2	KED
⌈>	**Tb**	**159**		ug/L			540555	513669	5	Standard
⌊	**Pb**	**208**	**26.686**	ug/L	1.146	4	256	1137609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0066-01RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 17:23:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	128320	2	Standard
	Cl	**37**		ug/L			3578521	3899699	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	471371	1	Standard
|	**Cr**	**52**	**1.942**	ug/L	0.077	3	18596	54862	3	Standard
|	**Cr**	**53**	**1.683**	ug/L	0.014	0	133	3819	2	Standard
⌊	**Mn**	**55**	**4.635**	ug/L	0.121	2	801	126852	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	22635	0	KED
|	**Ni**	**60**	**1.911**	ug/L	0.046	2	86	2012	2	KED
|	**Ni**	**62**	**1.892**	ug/L	0.136	7	16	328	6	KED
|	**Cu**	**63**	**0.109**	ug/L	0.007	6	67	389	4	KED
|	**Cu**	**65**	**0.096**	ug/L	0.021	21	42	182	17	KED
|	**Zn**	**66**	**2.203**	ug/L	0.080	3	67	942	3	KED
|	**Zn**	**67**	**1.778**	ug/L	0.239	13	11	132	13	KED
⌊	**As**	**75**	**0.061**	ug/L	0.013	21	6	18	14	KED
	Y	**89**		ug/L			230853	228937	4	Standard
	Kr	**83**		ug/L			65	53	13	Standard
⌈>	**In-1**	**115**		ug/L			6387	6449	1	KED
|	**Cd**	**111**	**0.021**	ug/L	0.015	68	5	10	35	KED
⌊	**Cd**	**114**	**0.026**	ug/L	0.005	17	2	17	15	KED
⌈>	**Tb**	**159**		ug/L			540555	543167	2	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.003	10	256	1450	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0137-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, January 09, 2023 17:28:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	96191	1	Standard
	Cl	37		ug/L			3578521	3946369	1	Standard
>	Sc	45		ug/L			476701	453601	2	Standard
	Cr	52	1.686	ug/L	0.011	0	18596	48165	2	Standard
	Cr	53	1.482	ug/L	0.026	1	133	3249	1	Standard
	Mn	55	13.578	ug/L	0.114	0	801	356016	1	Standard
>	Ge	72		ug/L			24444	22388	1	KED
	Ni	60	3.108	ug/L	0.106	3	86	3187	2	KED
	Ni	62	2.909	ug/L	0.116	3	16	492	2	KED
	Cu	63	0.069	ug/L	0.006	9	67	269	8	KED
	Cu	65	0.058	ug/L	0.021	36	42	123	24	KED
	Zn	66	2.525	ug/L	0.109	4	67	1059	3	KED
	Zn	67	2.272	ug/L	0.159	6	11	163	5	KED
	As	75	0.071	ug/L	0.015	20	6	20	13	KED
	Y	89		ug/L			230853	219523	2	Standard
	Kr	83		ug/L			65	66	20	Standard
>	In-1	115		ug/L			6387	6311	1	KED
	Cd	111	-0.004	ug/L	0.010	258	5	4	58	KED
	Cd	114	0.020	ug/L	0.008	39	2	13	33	KED
>	Tb	159		ug/L			540555	521367	4	Standard
	Pb	208	0.016	ug/L	0.001	8	256	921	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0116-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 17:35:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	42286	1	Standard
	Cl	37		ug/L			3578521	6769644	5	Standard
⌈>	Sc	45		ug/L			476701	455103	2	Standard
|	Cr	52	9.415	ug/L	0.110	1	18596	188397	1	Standard
|	Cr	53	13.672	ug/L	0.254	1	133	29035	0	Standard
⌊	Mn	55	2.705	ug/L	0.011	0	801	71786	1	Standard
⌈>	Ge	72		ug/L			24444	22687	1	KED
|	Ni	60	1.130	ug/L	0.013	1	86	1225	1	KED
|	Ni	62	1.199	ug/L	0.101	8	16	214	8	KED
|	Cu	63	12.837	ug/L	0.290	2	67	38843	2	KED
|	Cu	65	13.081	ug/L	0.273	2	42	19556	2	KED
|	Zn	66	15.132	ug/L	0.450	2	67	6125	2	KED
|	Zn	67	13.574	ug/L	0.531	3	11	939	4	KED
⌊	As	75	0.177	ug/L	0.018	9	6	42	9	KED
	Y	89		ug/L			230853	218368	2	Standard
	Kr	83		ug/L			65	53	18	Standard
⌈>	In-1	115		ug/L			6387	6402	2	KED
|	Cd	111	0.077	ug/L	0.039	51	5	22	39	KED
⌊	Cd	114	0.091	ug/L	0.011	12	2	53	11	KED
⌈>	Tb	159		ug/L			540555	525642	3	Standard
⌊	Pb	208	0.223	ug/L	0.005	2	256	9982	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-43
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 17:40:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	66452	3	Standard
	Cl	37		ug/L			3578521	3763365	0	Standard
>	Sc	45		ug/L			476701	611241	2	Standard
	Cr	52	16.933	ug/L	0.258	1	18596	435999	0	Standard
	Cr	53	17.179	ug/L	0.589	3	133	48939	1	Standard
	Mn	55	127.440	ug/L	2.565	2	801	4493412	0	Standard
>	Ge	72		ug/L			24444	23695	0	KED
	Ni	60	16.170	ug/L	0.085	0	86	17200	0	KED
	Ni	62	16.034	ug/L	0.534	3	16	2798	2	KED
	Cu	63	27.746	ug/L	0.719	2	67	87600	1	KED
	Cu	65	28.337	ug/L	0.119	0	42	44195	0	KED
	Zn	66	73.163	ug/L	1.042	1	67	30679	0	KED
	Zn	67	69.432	ug/L	1.436	2	11	4974	3	KED
	As	75	6.161	ug/L	0.063	1	6	1307	1	KED
	Y	89		ug/L			230853	479642	1	Standard
	Kr	83		ug/L			65	123	8	Standard
>	In-1	115		ug/L			6387	6451	2	KED
	Cd	111	0.462	ug/L	0.073	15	5	113	16	KED
	Cd	114	0.505	ug/L	0.062	12	2	288	9	KED
>	Tb	159		ug/L			540555	565155	2	Standard
	Pb	208	27.443	ug/L	0.865	3	256	1288329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-44
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 17:45:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	69320	1	Standard
	Cl	37		ug/L			3578521	3768320	1	Standard
>	Sc	45		ug/L			476701	617526	2	Standard
	Cr	52	18.193	ug/L	0.813	4	18596	471175	1	Standard
	Cr	53	18.077	ug/L	0.316	1	133	52029	1	Standard
	Mn	55	152.752	ug/L	4.505	2	801	5439600	0	Standard
>	Ge	72		ug/L			24444	23382	2	KED
	Ni	60	16.185	ug/L	0.422	2	86	16982	0	KED
	Ni	62	15.897	ug/L	0.602	3	16	2737	2	KED
	Cu	63	31.055	ug/L	0.883	2	67	96720	1	KED
	Cu	65	30.788	ug/L	0.597	1	42	47367	0	KED
	Zn	66	82.110	ug/L	1.153	1	67	33964	0	KED
	Zn	67	79.507	ug/L	1.505	1	11	5617	2	KED
	As	75	7.629	ug/L	0.257	3	6	1595	1	KED
	Y	89		ug/L			230853	495011	1	Standard
	Kr	83		ug/L			65	163	13	Standard
>	In-1	115		ug/L			6387	6401	3	KED
	Cd	111	0.698	ug/L	0.078	11	5	166	8	KED
	Cd	114	0.684	ug/L	0.028	4	2	387	4	KED
>	Tb	159		ug/L			540555	566643	2	Standard
	Pb	208	31.706	ug/L	0.515	1	256	1492807	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:49:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34163	0	Standard
	Cl	**37**		ug/L			3578521	3515432	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	450842	1	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.023	920	18596	17537	0	Standard
⎢	**Cr**	**53**	**0.022**	ug/L	0.005	22	133	173	4	Standard
⎣	**Mn**	**55**	**-0.006**	ug/L	0.001	9	801	608	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23839	1	KED
⎢	**Ni**	**60**	**-0.068**	ug/L	0.003	5	86	11	33	KED
⎢	**Ni**	**62**	**-0.081**	ug/L	0.000	0	16	1		KED
⎢	**Cu**	**63**	**-0.009**	ug/L	0.002	25	67	38	17	KED
⎢	**Cu**	**65**	**-0.016**	ug/L	0.005	29	42	16	46	KED
⎢	**Zn**	**66**	**-0.077**	ug/L	0.015	19	67	33	18	KED
⎢	**Zn**	**67**	**-0.066**	ug/L	0.042	62	11	6	45	KED
⎣	**As**	**75**	**0.003**	ug/L	0.008	255	6	7	23	KED
	Y	**89**		ug/L			230853	217262	0	Standard
	Kr	**83**		ug/L			65	62	9	Standard
⎡>	**In-1**	**115**		ug/L			6387	6522	1	KED
⎢	**Cd**	**111**	**-0.012**	ug/L	0.009	75	5	2	98	KED
⎣	**Cd**	**114**	**0.005**	ug/L	0.003	64	2	5	35	KED
⎡>	**Tb**	**159**		ug/L			540555	513292	4	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.001	258	256	253	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 17:54:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34194	1	Standard
	Cl	**37**		ug/L			3578521	3833938	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	446495	6	Standard
|	**Cr**	**52**	**51.567**	ug/L	3.317	6	18596	932054	0	Standard
|	**Cr**	**53**	**51.414**	ug/L	3.131	6	133	106540	1	Standard
⌊	**Mn**	**55**	**52.127**	ug/L	3.076	5	801	1340471	2	Standard
⌈>	**Ge**	**72**		ug/L			24444	23571	0	KED
|	**Ni**	**60**	**50.219**	ug/L	1.180	2	86	52961	1	KED
|	**Ni**	**62**	**48.372**	ug/L	0.939	1	16	8366	1	KED
|	**Cu**	**63**	**48.438**	ug/L	0.151	0	67	152102	0	KED
|	**Cu**	**65**	**49.305**	ug/L	1.738	3	42	76453	2	KED
|	**Zn**	**66**	**49.398**	ug/L	1.088	2	67	20626	1	KED
|	**Zn**	**67**	**48.694**	ug/L	2.729	5	11	3472	4	KED
⌊	**As**	**75**	**49.088**	ug/L	0.913	1	6	10316	1	KED
	Y	**89**		ug/L			230853	223167	6	Standard
	Kr	**83**		ug/L			65	59	14	Standard
⌈>	**In-1**	**115**		ug/L			6387	6401	1	KED
|	**Cd**	**111**	**50.253**	ug/L	0.858	1	5	11658	0	KED
⌊	**Cd**	**114**	**50.336**	ug/L	1.378	2	2	28352	0	KED
⌈>	**Tb**	**159**		ug/L			540555	526560	6	Standard
⌊	**Pb**	**208**	**51.699**	ug/L	3.626	7	256	2256037	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:01:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32578	3	Standard
	Cl	**37**		ug/L			3578521	3603989	1	Standard
⎡>	**Sc**	**45**		ug/L			476701	439943	1	Standard
⎢	**Cr**	**52**	**0.040**	ug/L	0.020	49	18596	17864	2	Standard
⎢	**Cr**	**53**	**0.016**	ug/L	0.006	34	133	156	8	Standard
⎣	**Mn**	**55**	**-0.004**	ug/L	0.001	21	801	649	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23232	0	KED
⎢	**Ni**	**60**	**0.001**	ug/L	0.007	652	86	83	9	KED
⎢	**Ni**	**62**	**-0.021**	ug/L	0.045	208	16	12	63	KED
⎢	**Cu**	**63**	**-0.004**	ug/L	0.003	89	67	53	17	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.006	161	42	34	27	KED
⎢	**Zn**	**66**	**0.007**	ug/L	0.006	91	67	66	2	KED
⎢	**Zn**	**67**	**0.036**	ug/L	0.056	157	11	13	28	KED
⎣	**As**	**75**	**-0.002**	ug/L	0.007	298	6	5	24	KED
	Y	**89**		ug/L			230853	221338	3	Standard
	Kr	**83**		ug/L			65	48	35	Standard
⎡>	**In-1**	**115**		ug/L			6387	6543	3	KED
⎢	**Cd**	**111**	**-0.015**	ug/L	0.005	30	5	1	69	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.002	82	2	1	90	KED
⎡>	**Tb**	**159**		ug/L			540555	508567	4	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	12	256	212	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:07:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	39642	2	Standard
	Cl	37		ug/L			3578521	3539808	2	Standard
>	Sc	45		ug/L			476701	451725	2	Standard
	Cr	52	0.044	ug/L	0.030	68	18596	18413	2	Standard
	Cr	53	0.040	ug/L	0.005	11	133	211	6	Standard
	Mn	55	0.253	ug/L	0.007	2	801	7340	3	Standard
>	Ge	72		ug/L			24444	23246	1	KED
	Ni	60	-0.057	ug/L	0.003	5	86	22	14	KED
	Ni	62	-0.085	ug/L	0.006	7	16	1	86	KED
	Cu	63	0.009	ug/L	0.006	68	67	91	19	KED
	Cu	65	0.004	ug/L	0.007	167	42	46	22	KED
	Zn	66	0.356	ug/L	0.026	7	67	210	6	KED
	Zn	67	0.542	ug/L	0.120	22	11	48	17	KED
	As	75	0.006	ug/L	0.016	283	6	7	42	KED
	Y	89		ug/L			230853	222484	3	Standard
	Kr	83		ug/L			65	52	27	Standard
>	In-1	115		ug/L			6387	6683	5	KED
	Cd	111	-0.011	ug/L	0.005	42	5	2	43	KED
	Cd	114	0.005	ug/L	0.006	122	2	5	63	KED
>	Tb	159		ug/L			540555	518735	4	Standard
	Pb	208	0.000	ug/L	0.001	783	256	249	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:11:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	41334	0	Standard
	Cl	37		ug/L			3578521	3805467	1	Standard
⌈>	Sc	45		ug/L			476701	454853	1	Standard
|	Cr	52	25.874	ug/L	0.169	0	18596	486479	0	Standard
|	Cr	53	25.719	ug/L	0.453	1	133	54478	0	Standard
⌊	Mn	55	26.421	ug/L	0.669	2	801	693883	0	Standard
⌈>	Ge	72		ug/L			24444	23571	1	KED
|	Ni	60	25.897	ug/L	0.541	2	86	27348	1	KED
|	Ni	62	25.724	ug/L	1.192	4	16	4454	2	KED
|	Cu	63	25.508	ug/L	0.759	2	67	80106	1	KED
|	Cu	65	25.690	ug/L	1.346	5	42	39835	3	KED
|	Zn	66	83.757	ug/L	1.000	1	67	34926	0	KED
|	Zn	67	77.185	ug/L	2.084	2	11	5496	1	KED
⌊	As	75	25.316	ug/L	0.740	2	6	5321	0	KED
	Y	89		ug/L			230853	224136	1	Standard
	Kr	83		ug/L			65	53	18	Standard
⌈>	In-1	115		ug/L			6387	6641	2	KED
|	Cd	111	25.310	ug/L	0.517	2	5	6093	0	KED
⌊	Cd	114	25.441	ug/L	0.821	3	2	14868	2	KED
⌈>	Tb	159		ug/L			540555	529839	2	Standard
⌊	Pb	208	26.424	ug/L	0.536	2	256	1163265	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:18:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	52120	2	Standard
	Cl	37		ug/L			3578521	3717556	1	Standard
⌈>	Sc	45		ug/L			476701	458766	2	Standard
|	Cr	52	5.196	ug/L	0.082	1	18596	112821	1	Standard
|	Cr	53	5.211	ug/L	0.044	0	133	11239	3	Standard
⌊	Mn	55	50.704	ug/L	1.097	2	801	1342296	0	Standard
⌈>	Ge	72		ug/L			24444	21598	1	KED
|	Ni	60	0.420	ug/L	0.011	2	86	481	3	KED
|	Ni	62	0.514	ug/L	0.098	19	16	95	16	KED
|	Cu	63	6.687	ug/L	0.128	1	67	19289	0	KED
|	Cu	65	6.865	ug/L	0.168	2	42	9788	2	KED
|	Zn	66	2.268	ug/L	0.018	0	67	924	1	KED
|	Zn	67	2.464	ug/L	0.429	17	11	170	17	KED
⌊	As	75	0.075	ug/L	0.016	21	6	20	16	KED
	Y	89		ug/L			230853	219630	1	Standard
	Kr	83		ug/L			65	49	30	Standard
⌈>	In-1	115		ug/L			6387	6088	2	KED
|	Cd	111	-0.002	ug/L	0.003	164	5	4	12	KED
⌊	Cd	114	-0.001	ug/L	0.004	253	2	1	125	KED
⌈>	Tb	159		ug/L			540555	514211	3	Standard
⌊	Pb	208	0.007	ug/L	0.001	13	256	543	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:22:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	49679	0	Standard
	Cl	37		ug/L			3578521	3628783	1	Standard
>	Sc	45		ug/L			476701	449656	1	Standard
	Cr	52	5.723	ug/L	0.097	1	18596	120038	1	Standard
	Cr	53	5.631	ug/L	0.063	1	133	11890	0	Standard
	Mn	55	39.052	ug/L	0.281	0	801	1013747	1	Standard
>	Ge	72		ug/L			24444	21432	1	KED
	Ni	60	0.419	ug/L	0.022	5	86	476	2	KED
	Ni	62	0.373	ug/L	0.007	1	16	73	3	KED
	Cu	63	6.740	ug/L	0.137	2	67	19299	3	KED
	Cu	65	6.888	ug/L	0.127	1	42	9743	1	KED
	Zn	66	2.619	ug/L	0.064	2	67	1050	1	KED
	Zn	67	2.686	ug/L	0.213	7	11	183	5	KED
	As	75	0.087	ug/L	0.030	34	6	22	25	KED
	Y	89		ug/L			230853	220785	0	Standard
	Kr	83		ug/L			65	53	21	Standard
>	In-1	115		ug/L			6387	6043	2	KED
	Cd	111	-0.004	ug/L	0.008	180	5	3	43	KED
	Cd	114	0.009	ug/L	0.010	103	2	7	71	KED
>	Tb	159		ug/L			540555	520913	3	Standard
	Pb	208	0.006	ug/L	0.000	5	256	500	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:27:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	48101	1	Standard
	Cl	37		ug/L			3578521	3726634	1	Standard
>	Sc	45		ug/L			476701	473626	3	Standard
	Cr	52	3.205	ug/L	0.017	0	18596	78947	3	Standard
	Cr	53	3.220	ug/L	0.032	0	133	7217	2	Standard
	Mn	55	23.513	ug/L	0.521	2	801	643057	2	Standard
>	Ge	72		ug/L			24444	21959	1	KED
	Ni	60	0.282	ug/L	0.013	4	86	354	3	KED
	Ni	62	0.288	ug/L	0.115	39	16	60	28	KED
	Cu	63	4.808	ug/L	0.042	0	67	14118	1	KED
	Cu	65	4.893	ug/L	0.053	1	42	7103	1	KED
	Zn	66	1.526	ug/L	0.053	3	67	652	2	KED
	Zn	67	1.503	ug/L	0.053	3	11	109	3	KED
	As	75	0.057	ug/L	0.016	27	6	17	16	KED
	Y	89		ug/L			230853	230023	2	Standard
	Kr	83		ug/L			65	63	9	Standard
>	In-1	115		ug/L			6387	6063	0	KED
	Cd	111	-0.003	ug/L	0.014	439	5	4	74	KED
	Cd	114	0.003	ug/L	0.008	251	2	3	109	KED
>	Tb	159		ug/L			540555	538690	5	Standard
	Pb	208	0.005	ug/L	0.000	4	256	490	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0004-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, January 09, 2023 18:31:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	45359	1	Standard
	Cl	37		ug/L			3578521	3645273	1	Standard
⌈>	Sc	45		ug/L			476701	456507	2	Standard
|	Cr	52	10.658	ug/L	0.237	2	18596	211542	0	Standard
|	Cr	53	10.722	ug/L	0.233	2	133	22865	0	Standard
⌊	Mn	55	18.150	ug/L	0.368	2	801	478593	0	Standard
⌈>	Ge	72		ug/L			24444	23223	0	KED
|	Ni	60	0.231	ug/L	0.033	14	86	321	10	KED
|	Ni	62	0.288	ug/L	0.049	17	16	64	13	KED
|	Cu	63	4.304	ug/L	0.056	1	67	13375	1	KED
|	Cu	65	4.326	ug/L	0.052	1	42	6646	0	KED
|	Zn	66	1.728	ug/L	0.105	6	67	772	5	KED
|	Zn	67	1.558	ug/L	0.144	9	11	120	8	KED
⌊	As	75	0.082	ug/L	0.020	23	6	23	17	KED
	Y	89		ug/L			230853	219292	1	Standard
	Kr	83		ug/L			65	55	29	Standard
⌈>	In-1	115		ug/L			6387	6323	3	KED
|	Cd	111	0.000	ug/L	0.017	83528	5	5	78	KED
⌊	Cd	114	0.003	ug/L	0.008	286	2	3	114	KED
⌈>	Tb	159		ug/L			540555	531283	4	Standard
⌊	Pb	208	0.015	ug/L	0.002	13	256	913	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-45
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:36:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	70058	0	Standard
	Cl	37		ug/L			3578521	3637459	1	Standard
>	Sc	45		ug/L			476701	635528	1	Standard
	Cr	52	17.392	ug/L	0.227	1	18596	465010	1	Standard
	Cr	53	17.623	ug/L	0.483	2	133	52208	1	Standard
	Mn	55	160.671	ug/L	2.032	1	801	5890866	0	Standard
>	Ge	72		ug/L			24444	23859	0	KED
	Ni	60	16.352	ug/L	0.237	1	86	17514	1	KED
	Ni	62	16.461	ug/L	0.326	1	16	2892	2	KED
	Cu	63	33.327	ug/L	0.431	1	67	105954	1	KED
	Cu	65	33.695	ug/L	0.413	1	42	52909	1	KED
	Zn	66	86.654	ug/L	0.617	0	67	36579	0	KED
	Zn	67	83.844	ug/L	1.749	2	11	6045	1	KED
	As	75	8.322	ug/L	0.033	0	6	1775	0	KED
	Y	89		ug/L			230853	521221	2	Standard
	Kr	83		ug/L			65	161	11	Standard
>	In-1	115		ug/L			6387	6607	1	KED
	Cd	111	0.659	ug/L	0.055	8	5	162	7	KED
	Cd	114	0.635	ug/L	0.046	7	2	371	7	KED
>	Tb	159		ug/L			540555	564800	3	Standard
	Pb	208	34.919	ug/L	1.034	2	256	1638220	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-46
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:41:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	59212	1	Standard
	Cl	**37**		ug/L			3578521	3584051	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	515810	1	Standard
|	**Cr**	**52**	**7.975**	ug/L	0.135	1	18596	183951	1	Standard
|	**Cr**	**53**	**8.019**	ug/L	0.009	0	133	19366	1	Standard
⌊	**Mn**	**55**	**95.320**	ug/L	1.296	1	801	2836800	0	Standard
⌈>	**Ge**	**72**		ug/L			24444	24090	2	KED
|	**Ni**	**60**	**7.584**	ug/L	0.251	3	86	8243	1	KED
|	**Ni**	**62**	**7.343**	ug/L	0.132	1	16	1311	1	KED
|	**Cu**	**63**	**8.569**	ug/L	0.255	2	67	27547	1	KED
|	**Cu**	**65**	**8.679**	ug/L	0.320	3	42	13786	2	KED
|	**Zn**	**66**	**21.916**	ug/L	0.540	2	67	9389	2	KED
|	**Zn**	**67**	**21.562**	ug/L	0.469	2	11	1578	4	KED
⌊	**As**	**75**	**1.961**	ug/L	0.094	4	6	427	3	KED
	Y	**89**		ug/L			230853	373430	1	Standard
	Kr	**83**		ug/L			65	94	6	Standard
⌈>	**In-1**	**115**		ug/L			6387	6941	1	KED
|	**Cd**	**111**	**0.021**	ug/L	0.009	41	5	10	20	KED
⌊	**Cd**	**114**	**0.017**	ug/L	0.002	11	2	13	8	KED
⌈>	**Tb**	**159**		ug/L			540555	549187	3	Standard
⌊	**Pb**	**208**	**1.732**	ug/L	0.047	2	256	79268	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0199-47
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 18:45:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	63904	3	Standard
	Cl	**37**		ug/L			3578521	3613111	0	Standard
⌈>	**Sc**	**45**		ug/L			476701	550867	2	Standard
|	**Cr**	**52**	**10.244**	ug/L	0.277	2	18596	246160	0	Standard
|	**Cr**	**53**	**10.394**	ug/L	0.194	1	133	26755	1	Standard
⌊	**Mn**	**55**	**120.380**	ug/L	2.215	1	801	3825738	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23807	1	KED
|	**Ni**	**60**	**10.450**	ug/L	0.390	3	86	11195	3	KED
|	**Ni**	**62**	**10.383**	ug/L	0.366	3	16	1826	2	KED
|	**Cu**	**63**	**14.395**	ug/L	0.288	1	67	45696	1	KED
|	**Cu**	**65**	**14.764**	ug/L	0.348	2	42	23152	2	KED
|	**Zn**	**66**	**31.439**	ug/L	0.047	0	67	13283	1	KED
|	**Zn**	**67**	**32.124**	ug/L	1.023	3	11	2317	1	KED
⌊	**As**	**75**	**3.101**	ug/L	0.137	4	6	664	4	KED
	Y	**89**		ug/L			230853	436727	1	Standard
	Kr	**83**		ug/L			65	113	8	Standard
⌈>	**In-1**	**115**		ug/L			6387	6507	3	KED
|	**Cd**	**111**	**0.060**	ug/L	0.014	23	5	19	20	KED
⌊	**Cd**	**114**	**0.066**	ug/L	0.015	23	2	39	19	KED
⌈>	**Tb**	**159**		ug/L			540555	553912	2	Standard
⌊	**Pb**	**208**	**3.949**	ug/L	0.116	2	256	181927	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:49:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	34318	2	Standard
	Cl	**37**		ug/L			3578521	3409550	3	Standard
⌈>	**Sc**	**45**		ug/L			476701	432607	4	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.018	193	18596	17031	3	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.005	58	133	105	12	Standard
⌊	**Mn**	**55**	**-0.005**	ug/L	0.002	37	801	601	11	Standard
⌈>	**Ge**	**72**		ug/L			24444	23146	2	KED
|	**Ni**	**60**	**-0.072**	ug/L	0.003	3	86	6	41	KED
|	**Ni**	**62**	**-0.055**	ug/L	0.006	11	16	6	17	KED
|	**Cu**	**63**	**-0.009**	ug/L	0.004	49	67	38	36	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.005	50	42	25	31	KED
|	**Zn**	**66**	**-0.060**	ug/L	0.005	7	67	39	5	KED
|	**Zn**	**67**	**-0.056**	ug/L	0.055	99	11	6	56	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	277	6	6	7	KED
	Y	**89**		ug/L			230853	214375	3	Standard
	Kr	**83**		ug/L			65	47	17	Standard
⌈>	**In-1**	**115**		ug/L			6387	6502	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.004	29	5	1	50	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	3546	2	2	51	KED
⌈>	**Tb**	**159**		ug/L			540555	506379	4	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	58	256	203	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 18:54:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32517	1	Standard
	Cl	**37**		ug/L			3578521	3662022	2	Standard
⎡>	**Sc**	**45**		ug/L			476701	446496	1	Standard
⎢	**Cr**	**52**	**49.851**	ug/L	0.660	1	18596	904026	2	Standard
⎢	**Cr**	**53**	**50.064**	ug/L	0.356	0	133	103994	0	Standard
⎣	**Mn**	**55**	**50.804**	ug/L	0.221	0	801	1309319	1	Standard
⎡>	**Ge**	**72**		ug/L			24444	23908	1	KED
⎢	**Ni**	**60**	**49.752**	ug/L	0.225	0	86	53223	0	KED
⎢	**Ni**	**62**	**48.525**	ug/L	0.989	2	16	8513	0	KED
⎢	**Cu**	**63**	**49.312**	ug/L	0.891	1	67	157066	2	KED
⎢	**Cu**	**65**	**49.737**	ug/L	0.837	1	42	78237	1	KED
⎢	**Zn**	**66**	**49.992**	ug/L	0.544	1	67	21175	2	KED
⎢	**Zn**	**67**	**48.552**	ug/L	1.196	2	11	3512	3	KED
⎣	**As**	**75**	**49.436**	ug/L	1.091	2	6	10538	1	KED
	Y	**89**		ug/L			230853	224268	1	Standard
	Kr	**83**		ug/L			65	50	44	Standard
⎡>	**In-1**	**115**		ug/L			6387	6358	2	KED
⎢	**Cd**	**111**	**51.283**	ug/L	1.073	2	5	11817	2	KED
⎣	**Cd**	**114**	**51.173**	ug/L	1.494	2	2	28630	2	KED
⎡>	**Tb**	**159**		ug/L			540555	530844	4	Standard
⎣	**Pb**	**208**	**50.179**	ug/L	1.775	3	256	2211516	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:01:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	33265	2	Standard
	Cl	**37**		ug/L			3578521	3460889	4	Standard
⎡>	**Sc**	**45**		ug/L			476701	453529	3	Standard
⎢	**Cr**	**52**	**-0.014**	ug/L	0.017	118	18596	17427	2	Standard
⎢	**Cr**	**53**	**-0.006**	ug/L	0.004	61	133	114	9	Standard
⎣	**Mn**	**55**	**-0.003**	ug/L	0.000	18	801	695	4	Standard
⎡>	**Ge**	**72**		ug/L			24444	23194	1	KED
⎢	**Ni**	**60**	**-0.000**	ug/L	0.010	10709	86	81	14	KED
⎢	**Ni**	**62**	**0.012**	ug/L	0.023	183	16	17	22	KED
⎢	**Cu**	**63**	**-0.000**	ug/L	0.004	3024	67	64	20	KED
⎢	**Cu**	**65**	**-0.006**	ug/L	0.006	101	42	31	27	KED
⎢	**Zn**	**66**	**0.013**	ug/L	0.011	83	67	69	6	KED
⎢	**Zn**	**67**	**-0.010**	ug/L	0.014	145	11	10	10	KED
⎣	**As**	**75**	**0.004**	ug/L	0.008	200	6	7	23	KED
	Y	**89**		ug/L			230853	220971	4	Standard
	Kr	**83**		ug/L			65	54	17	Standard
⎡>	**In-1**	**115**		ug/L			6387	6714	0	KED
⎢	**Cd**	**111**	**-0.002**	ug/L	0.016	631	5	4	80	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.006	260	2	3	87	KED
⎡>	**Tb**	**159**		ug/L			540555	520970	4	Standard
⎣	**Pb**	**208**	**-0.000**	ug/L	0.000	221	256	240	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:06:45

DEL

WRONG SAMPLE

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	16821	75	Standard
	Cl	**37**		ug/L			3578521	1790505	63	Standard
⌈>	**Sc**	**45**		ug/L			476701	752041	100	Standard
|	**Cr**	**52**	**1.900**	ug/L	4.611	242	18596	6857	82	Standard
|	**Cr**	**53**	**0.768**	ug/L	1.396	181	133	86	42	Standard
⌊	**Mn**	**55**	**0.137**	ug/L	0.273	198	801	428	77	Standard
⌈>	**Ge**	**72**		ug/L			24444	3065	151	KED
|	**Ni**	**60**	**-0.074**	ug/L	0.009	11	86	1	173	KED
|	**Ni**	**62**	**1.496**	ug/L	1.898	126	16	5	21	KED
|	**Cu**	**63**	**-0.017**	ug/L	0.006	33	67	3	173	KED
|	**Cu**	**65**	**0.105**	ug/L	0.133	126	42	5	43	KED
|	**Zn**	**66**	**0.498**	ug/L	0.792	158	67	4	24	KED
|	**Zn**	**67**	**0.924**	ug/L	1.679	181	11	2	114	KED
⌊	**As**	**75**	**0.663**	ug/L	0.755	113	6	3	37	KED
	Y	**89**		ug/L			230853	394957	96	Standard
	Kr	**83**		ug/L			65	22	28	Standard
⌈>	**In-1**	**115**		ug/L			6387	16359	33	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.003	21	5	4	61	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.001	238	2	5	35	KED
⌈>	**Tb**	**159**		ug/L			540555	963931	94	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.001	16	256	102	87	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:12:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	41079	0	Standard
	Cl	**37**		ug/L			3578521	3520747	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	464742	3	Standard
|	**Cr**	**52**	**0.201**	ug/L	0.041	20	18596	21837	2	Standard
|	**Cr**	**53**	**0.167**	ug/L	0.023	13	133	491	12	Standard
⌊	**Mn**	**55**	**0.237**	ug/L	0.001	0	801	7134	3	Standard
⌈>	**Ge**	**72**		ug/L			24444	25501	3	KED
|	**Ni**	**60**	**-0.062**	ug/L	0.004	7	86	19	30	KED
|	**Ni**	**62**	**-0.044**	ug/L	0.023	52	16	8	44	KED
|	**Cu**	**63**	**0.016**	ug/L	0.002	9	67	126	4	KED
|	**Cu**	**65**	**0.016**	ug/L	0.009	54	42	71	24	KED
|	**Zn**	**66**	**0.268**	ug/L	0.062	23	67	190	11	KED
|	**Zn**	**67**	**0.152**	ug/L	0.131	86	11	23	41	KED
⌊	**As**	**75**	**0.005**	ug/L	0.016	298	6	8	41	KED
	Y	**89**		ug/L			230853	227722	3	Standard
	Kr	**83**		ug/L			65	51	22	Standard
⌈>	**In-1**	**115**		ug/L			6387	6664	1	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.002	17	5	2	24	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	206	2	3	78	KED
⌈>	**Tb**	**159**		ug/L			540555	530064	5	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	50	256	213	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:16:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	39904	1	Standard
	Cl	**37**		ug/L			3578521	3458447	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	438870	1	Standard
|	**Cr**	**52**	**25.837**	ug/L	0.294	1	18596	468710	0	Standard
|	**Cr**	**53**	**25.575**	ug/L	0.569	2	133	52273	1	Standard
⌊	**Mn**	**55**	**26.545**	ug/L	0.560	2	801	672686	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23248	1	KED
|	**Ni**	**60**	**25.740**	ug/L	0.545	2	86	26816	2	KED
|	**Ni**	**62**	**25.194**	ug/L	0.463	1	16	4306	2	KED
|	**Cu**	**63**	**25.339**	ug/L	0.372	1	67	78501	0	KED
|	**Cu**	**65**	**25.260**	ug/L	0.417	1	42	38652	0	KED
|	**Zn**	**66**	**83.867**	ug/L	0.715	0	67	34497	1	KED
|	**Zn**	**67**	**76.190**	ug/L	2.598	3	11	5352	2	KED
⌊	**As**	**75**	**25.305**	ug/L	0.503	1	6	5247	0	KED
	Y	**89**		ug/L			230853	217213	1	Standard
	Kr	**83**		ug/L			65	52	22	Standard
⌈>	**In-1**	**115**		ug/L			6387	6373	1	KED
|	**Cd**	**111**	**25.446**	ug/L	0.445	1	5	5879	1	KED
⌊	**Cd**	**114**	**25.308**	ug/L	0.126	0	2	14197	1	KED
⌈>	**Tb**	**159**		ug/L			540555	512477	3	Standard
⌊	**Pb**	**208**	**26.331**	ug/L	1.081	4	256	1120439	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:21:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	60244	1	Standard
	Cl	**37**		ug/L			3578521	3656693	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	594488	1	Standard
|	**Cr**	**52**	**17.337**	ug/L	0.394	2	18596	433600	0	Standard
|	**Cr**	**53**	**17.472**	ug/L	0.262	1	133	48424	0	Standard
⌊	**Mn**	**55**	**134.485**	ug/L	2.769	2	801	4612397	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23792	1	KED
|	**Ni**	**60**	**13.835**	ug/L	0.453	3	86	14785	2	KED
|	**Ni**	**62**	**14.007**	ug/L	0.205	1	16	2457	2	KED
|	**Cu**	**63**	**38.392**	ug/L	0.222	0	67	121698	1	KED
|	**Cu**	**65**	**38.461**	ug/L	0.833	2	42	60204	0	KED
|	**Zn**	**66**	**86.178**	ug/L	0.125	0	67	36275	1	KED
|	**Zn**	**67**	**80.688**	ug/L	1.246	1	11	5802	2	KED
⌊	**As**	**75**	**10.154**	ug/L	0.096	0	6	2159	2	KED
	Y	**89**		ug/L			230853	460643	2	Standard
	Kr	**83**		ug/L			65	139	27	Standard
⌈>	**In-1**	**115**		ug/L			6387	6546	3	KED
|	**Cd**	**111**	**0.721**	ug/L	0.068	9	5	175	6	KED
⌊	**Cd**	**114**	**0.718**	ug/L	0.013	1	2	416	4	KED
⌈>	**Tb**	**159**		ug/L			540555	548464	2	Standard
⌊	**Pb**	**208**	**35.527**	ug/L	0.786	2	256	1618886	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:25:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			34196	56919	0	Standard
Cl	37		ug/L			3578521	3556256	1	Standard
> Sc	45		ug/L			476701	601764	2	Standard
Cr	52	16.599	ug/L	0.229	1	18596	421249	1	Standard
Cr	53	16.552	ug/L	0.285	1	133	46446	2	Standard
Mn	55	133.471	ug/L	2.197	1	801	4633196	1	Standard
> Ge	72		ug/L			24444	22860	0	KED
Ni	60	13.374	ug/L	0.223	1	86	13738	1	KED
Ni	62	13.345	ug/L	0.677	5	16	2249	4	KED
Cu	63	34.735	ug/L	0.513	1	67	105798	1	KED
Cu	65	35.323	ug/L	0.943	2	42	53134	2	KED
Zn	66	86.650	ug/L	0.283	0	67	35045	0	KED
Zn	67	82.066	ug/L	1.598	1	11	5669	1	KED
As	75	10.165	ug/L	0.128	1	6	2076	1	KED
Y	89		ug/L			230853	478052	1	Standard
Kr	83		ug/L			65	148	12	Standard
> In-1	115		ug/L			6387	6232	1	KED
Cd	111	0.488	ug/L	0.053	10	5	115	10	KED
Cd	114	0.490	ug/L	0.075	15	2	270	14	KED
> Tb	159		ug/L			540555	549101	3	Standard
Pb	208	38.274	ug/L	1.023	2	256	1745600	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:29:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			34196	63292	1	Standard
Cl	37		ug/L			3578521	3578320	2	Standard
> Sc	45		ug/L			476701	623910	2	Standard
Cr	52	14.592	ug/L	0.162	1	18596	386910	2	Standard
Cr	53	14.748	ug/L	0.305	2	133	42917	0	Standard
Mn	55	138.686	ug/L	2.155	1	801	4991891	1	Standard
> Ge	72		ug/L			24444	23056	0	KED
Ni	60	13.735	ug/L	0.256	1	86	14228	1	KED
Ni	62	13.935	ug/L	0.442	3	16	2369	3	KED
Cu	63	36.729	ug/L	0.276	0	67	112834	0	KED
Cu	65	36.835	ug/L	1.267	3	42	55888	3	KED
Zn	66	87.180	ug/L	2.546	2	67	35563	3	KED
Zn	67	82.657	ug/L	2.237	2	11	5759	2	KED
As	75	9.091	ug/L	0.111	1	6	1874	1	KED
Y	89		ug/L			230853	499088	0	Standard
Kr	83		ug/L			65	149	17	Standard
> In-1	115		ug/L			6387	6372	1	KED
Cd	111	0.520	ug/L	0.032	6	5	125	6	KED
Cd	114	0.490	ug/L	0.020	4	2	276	2	KED
> Tb	159		ug/L			540555	554006	3	Standard
Pb	208	33.375	ug/L	1.324	3	256	1535253	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:34:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	59050	2	Standard
	Cl	37		ug/L			3578521	3640863	0	Standard
>	Sc	45		ug/L			476701	618718	2	Standard
	Cr	52	15.400	ug/L	0.311	2	18596	403518	1	Standard
	Cr	53	15.761	ug/L	0.457	2	133	45465	1	Standard
	Mn	55	139.850	ug/L	4.418	3	801	4990014	1	Standard
>	Ge	72		ug/L			24444	23532	1	KED
	Ni	60	13.510	ug/L	0.180	1	86	14285	1	KED
	Ni	62	13.871	ug/L	0.389	2	16	2407	3	KED
	Cu	63	34.436	ug/L	0.668	1	67	107959	1	KED
	Cu	65	34.980	ug/L	0.480	1	42	54164	0	KED
	Zn	66	83.494	ug/L	1.475	1	67	34760	1	KED
	Zn	67	76.965	ug/L	1.599	2	11	5473	1	KED
	As	75	8.742	ug/L	0.335	3	6	1839	4	KED
	Y	89		ug/L			230853	507741	1	Standard
	Kr	83		ug/L			65	184	20	Standard
>	In-1	115		ug/L			6387	6429	0	KED
	Cd	111	0.432	ug/L	0.012	2	5	105	2	KED
	Cd	114	0.447	ug/L	0.038	8	2	255	8	KED
>	Tb	159		ug/L			540555	558215	3	Standard
	Pb	208	35.267	ug/L	1.067	3	256	1634976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:38:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	56543	1	Standard
	Cl	**37**		ug/L			3578521	3632245	1	Standard
⌈>	**Sc**	**45**		ug/L			476701	587014	2	Standard
|	**Cr**	**52**	**16.797**	ug/L	0.373	2	18596	415513	0	Standard
|	**Cr**	**53**	**16.881**	ug/L	0.045	0	133	46213	2	Standard
⌊	**Mn**	**55**	**130.264**	ug/L	1.249	0	801	4411714	1	Standard
⌈>	**Ge**	**72**		ug/L			24444	23738	2	KED
|	**Ni**	**60**	**14.560**	ug/L	0.307	2	86	15522	2	KED
|	**Ni**	**62**	**14.274**	ug/L	0.524	3	16	2497	3	KED
|	**Cu**	**63**	**30.243**	ug/L	0.104	0	67	95660	1	KED
|	**Cu**	**65**	**31.315**	ug/L	0.401	1	42	48915	1	KED
|	**Zn**	**66**	**82.033**	ug/L	0.978	1	67	34451	1	KED
|	**Zn**	**67**	**76.450**	ug/L	3.827	5	11	5482	3	KED
⌊	**As**	**75**	**10.489**	ug/L	0.043	0	6	2225	1	KED
	Y	**89**		ug/L			230853	461535	0	Standard
	Kr	**83**		ug/L			65	128	0	Standard
⌈>	**In-1**	**115**		ug/L			6387	6654	2	KED
|	**Cd**	**111**	**1.720**	ug/L	0.065	3	5	419	2	KED
⌊	**Cd**	**114**	**1.865**	ug/L	0.057	3	2	1094	4	KED
⌈>	**Tb**	**159**		ug/L			540555	554053	3	Standard
⌊	**Pb**	**208**	**36.639**	ug/L	1.103	3	256	1685881	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:43:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			34196	65154	1	Standard
	Cl	37		ug/L			3578521	3626843	1	Standard
>	Sc	45		ug/L			476701	629046	1	Standard
	Cr	52	20.117	ug/L	0.178	0	18596	528531	0	Standard
	Cr	53	20.235	ug/L	0.204	1	133	59321	0	Standard
	Mn	55	142.259	ug/L	0.858	0	801	5163724	1	Standard
>	Ge	72		ug/L			24444	23518	1	KED
	Ni	60	13.818	ug/L	0.137	0	86	14599	0	KED
	Ni	62	14.464	ug/L	0.101	0	16	2507	1	KED
	Cu	63	35.520	ug/L	0.472	1	67	111290	0	KED
	Cu	65	35.309	ug/L	0.310	0	42	54653	2	KED
	Zn	66	122.246	ug/L	2.120	1	67	50841	2	KED
	Zn	67	114.573	ug/L	2.982	2	11	8136	1	KED
	As	75	16.031	ug/L	0.085	0	6	3366	1	KED
	Y	89		ug/L			230853	503262	2	Standard
	Kr	83		ug/L			65	146	6	Standard
>	In-1	115		ug/L			6387	6335	1	KED
	Cd	111	0.538	ug/L	0.042	7	5	128	7	KED
	Cd	114	0.500	ug/L	0.073	14	2	281	15	KED
>	Tb	159		ug/L			540555	577652	2	Standard
	Pb	208	24.104	ug/L	0.455	1	256	1157040	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 19:47:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			34196	64618	3	Standard
Cl	37		ug/L			3578521	3633882	2	Standard
> Sc	45		ug/L			476701	632674	2	Standard
Cr	52	16.277	ug/L	0.479	2	18596	434662	0	Standard
Cr	53	16.211	ug/L	0.494	3	133	47818	1	Standard
Mn	55	138.679	ug/L	2.152	1	801	5061415	0	Standard
> Ge	72		ug/L			24444	24375	2	KED
Ni	60	14.954	ug/L	0.656	4	86	16358	2	KED
Ni	62	14.942	ug/L	1.029	6	16	2682	5	KED
Cu	63	26.292	ug/L	0.156	0	67	85399	1	KED
Cu	65	26.647	ug/L	0.260	0	42	42747	1	KED
Zn	66	138.610	ug/L	2.611	1	67	59718	1	KED
Zn	67	127.419	ug/L	2.032	1	11	9377	0	KED
As	75	17.583	ug/L	0.054	0	6	3825	2	KED
Y	89		ug/L			230853	521900	1	Standard
Kr	83		ug/L			65	155	22	Standard
> In-1	115		ug/L			6387	6306	2	KED
Cd	111	0.325	ug/L	0.047	14	5	79	14	KED
Cd	114	0.332	ug/L	0.049	14	2	186	14	KED
> Tb	159		ug/L			540555	576562	3	Standard
Pb	208	12.845	ug/L	0.398	3	256	615287	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 19:54:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32638	1	Standard
	Cl	**37**		ug/L			3578521	3701223	0	Standard
⎡>	**Sc**	**45**		ug/L			476701	444103	3	Standard
⎢	**Cr**	**52**	**49.924**	ug/L	1.716	3	18596	899713	1	Standard
⎢	**Cr**	**53**	**49.732**	ug/L	1.785	3	133	102672	1	Standard
⎣	**Mn**	**55**	**50.971**	ug/L	1.393	2	801	1305748	0	Standard
⎡>	**Ge**	**72**		ug/L			24444	23058	2	KED
⎢	**Ni**	**60**	**51.823**	ug/L	1.036	1	86	53450	1	KED
⎢	**Ni**	**62**	**49.941**	ug/L	1.151	2	16	8447	1	KED
⎢	**Cu**	**63**	**49.863**	ug/L	0.950	1	67	153141	2	KED
⎢	**Cu**	**65**	**51.087**	ug/L	0.316	0	42	77512	3	KED
⎢	**Zn**	**66**	**51.632**	ug/L	1.628	3	67	21081	2	KED
⎢	**Zn**	**67**	**50.378**	ug/L	2.106	4	11	3512	2	KED
⎣	**As**	**75**	**50.278**	ug/L	1.045	2	6	10333	0	KED
	Y	**89**		ug/L			230853	218382	0	Standard
	Kr	**83**		ug/L			65	62	10	Standard
⎡>	**In-1**	**115**		ug/L			6387	6314	2	KED
⎢	**Cd**	**111**	**48.776**	ug/L	0.388	0	5	11161	1	KED
⎣	**Cd**	**114**	**49.344**	ug/L	1.214	2	2	27415	1	KED
⎡>	**Tb**	**159**		ug/L			540555	525081	3	Standard
⎣	**Pb**	**208**	**49.848**	ug/L	1.346	2	256	2174207	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:01:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			34196	32926	5	Standard
	Cl	**37**		ug/L			3578521	3501742	2	Standard
⌈>	**Sc**	**45**		ug/L			476701	432263	1	Standard
|	**Cr**	**52**	**0.012**	ug/L	0.020	163	18596	17078	2	Standard
|	**Cr**	**53**	**-0.003**	ug/L	0.006	166	133	113	9	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.002	200	801	704	5	Standard
⌈>	**Ge**	**72**		ug/L			24444	22126	3	KED
|	**Ni**	**60**	**0.004**	ug/L	0.002	42	86	82	1	KED
|	**Ni**	**62**	**0.025**	ug/L	0.004	15	16	19	0	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	44	67	52	11	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.006	62	42	25	35	KED
|	**Zn**	**66**	**0.052**	ug/L	0.009	17	67	81	2	KED
|	**Zn**	**67**	**0.008**	ug/L	0.049	623	11	10	26	KED
⌊	**As**	**75**	**0.007**	ug/L	0.008	111	6	7	20	KED
	Y	**89**		ug/L			230853	214650	1	Standard
	Kr	**83**		ug/L			65	48	9	Standard
⌈>	**In-1**	**115**		ug/L			6387	6124	1	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.007	55	5	1	86	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	189	2	1	205	KED
⌈>	**Tb**	**159**		ug/L			540555	503661	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	185	256	267	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:09:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				28744	1	Standard
	Cl	**37**		ug/L				3416101	0	Standard
⎡>	**Sc**	**45**		ug/L				429622	3	Standard
⎢	**Cr**	**52**		ug/L				16425	4	Standard
⎢	**Cr**	**53**		ug/L				102	7	Standard
⎣	**Mn**	**55**		ug/L				567	2	Standard
⎡>	**Ge**	**72**		ug/L				22652	1	KED
⎢	**Ni**	**60**		ug/L				20	14	KED
⎢	**Ni**	**62**		ug/L				7	43	KED
⎢	**Cu**	**63**		ug/L				30	27	KED
⎢	**Cu**	**65**		ug/L				24	16	KED
⎢	**Zn**	**66**		ug/L				40	9	KED
⎢	**Zn**	**67**		ug/L				3	50	KED
⎣	**As**	**75**		ug/L				5	28	KED
	Y	**89**		ug/L				208501	3	Standard
	Kr	**83**		ug/L				52	5	Standard
⎡>	**In-1**	**115**		ug/L				6222	2	KED
⎢	**Cd**	**111**		ug/L				2	65	KED
⎣	**Cd**	**114**		ug/L				6	56	KED
⎡>	**Tb**	**159**		ug/L				498579	3	Standard
⎣	**Pb**	**208**		ug/L				109	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:13:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29859	2	Standard
	Cl	**37**		ug/L			3416101	3661261	2	Standard
⎡>	**Sc**	**45**		ug/L			429622	435471	0	Standard
⎢	**Cr**	**52**	**50.114**	ug/L	0.158	0	16425	885897	1	Standard
⎢	**Cr**	**53**	**49.291**	ug/L	0.496	1	102	99854	1	Standard
⎣	**Mn**	**55**	**50.383**	ug/L	0.864	1	567	1266400	2	Standard
⎡>	**Ge**	**72**		ug/L			22652	22408	1	KED
⎢	**Ni**	**60**	**49.499**	ug/L	0.077	0	20	49572	0	KED
⎢	**Ni**	**62**	**48.829**	ug/L	0.938	1	7	8023	2	KED
⎢	**Cu**	**63**	**49.002**	ug/L	0.811	1	30	146247	1	KED
⎢	**Cu**	**65**	**49.258**	ug/L	0.800	1	24	72600	0	KED
⎢	**Zn**	**66**	**49.366**	ug/L	1.218	2	40	19573	1	KED
⎢	**Zn**	**67**	**48.417**	ug/L	1.239	2	3	3275	2	KED
⎣	**As**	**75**	**49.357**	ug/L	0.162	0	5	9861	0	KED
	Y	**89**		ug/L			208501	213698	2	Standard
	Kr	**83**		ug/L			52	64	25	Standard
⎡>	**In-1**	**115**		ug/L			6222	6210	2	KED
⎢	**Cd**	**111**	**49.427**	ug/L	1.386	2	2	11118	0	KED
⎣	**Cd**	**114**	**49.346**	ug/L	0.471	0	6	26977	2	KED
⎡>	**Tb**	**159**		ug/L			498579	514046	3	Standard
⎣	**Pb**	**208**	**49.918**	ug/L	1.570	3	109	2130878	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 20:20:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29334	2	Standard
	Cl	**37**		ug/L			3416101	3436340	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	444026	1	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.022	261	16425	17127	3	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.007	296	102	100	15	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.000	35	567	559	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	22579	4	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.003	24895	20	20	19	KED
|	**Ni**	**62**	**0.017**	ug/L	0.055	322	7	10	84	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	88	30	36	15	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.003	92	24	18	26	KED
|	**Zn**	**66**	**0.003**	ug/L	0.025	858	40	41	27	KED
|	**Zn**	**67**	**0.020**	ug/L	0.045	226	3	5	57	KED
⌊	**As**	**75**	**0.006**	ug/L	0.006	102	5	7	20	KED
	Y	**89**		ug/L			208501	221357	1	Standard
	Kr	**83**		ug/L			52	46	26	Standard
⌈>	**In-1**	**115**		ug/L			6222	6373	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.004	271	2	1	50	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	27	6	3	37	KED
⌈>	**Tb**	**159**		ug/L			498579	514436	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	254	109	118	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:29:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	56516	2	Standard
	Cl	37		ug/L			3416101	3553139	0	Standard
>	Sc	45		ug/L			429622	575188	3	Standard
	Cr	52	15.845	ug/L	0.536	3	16425	384713	1	Standard
	Cr	53	16.068	ug/L	0.410	2	102	43056	1	Standard
	Mn	55	125.453	ug/L	2.425	1	567	4162523	3	Standard
>	Ge	72		ug/L			22652	22372	2	KED
	Ni	60	15.044	ug/L	0.432	2	20	15051	1	KED
	Ni	62	15.287	ug/L	0.601	3	7	2512	4	KED
	Cu	63	28.458	ug/L	0.361	1	30	84797	0	KED
	Cu	65	28.531	ug/L	1.116	3	24	41976	2	KED
	Zn	66	68.994	ug/L	1.609	2	40	27293	1	KED
	Zn	67	67.023	ug/L	0.916	1	3	4525	0	KED
	As	75	7.850	ug/L	0.270	3	5	1570	1	KED
	Y	89		ug/L			208501	443638	1	Standard
	Kr	83		ug/L			52	119	22	Standard
>	In-1	115		ug/L			6222	6174	3	KED
	Cd	111	0.381	ug/L	0.021	5	2	87	2	KED
	Cd	114	0.360	ug/L	0.011	2	6	202	5	KED
>	Tb	159		ug/L			498579	538315	3	Standard
	Pb	208	23.369	ug/L	0.578	2	109	1044851	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:33:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	66731	2	Standard
Cl	37		ug/L			3416101	3687017	2	Standard
> Sc	45		ug/L			429622	599474	1	Standard
Cr	52	15.661	ug/L	0.207	1	16425	396920	3	Standard
Cr	53	15.614	ug/L	0.046	0	102	43639	2	Standard
Mn	55	131.560	ug/L	1.987	1	567	4550041	1	Standard
> Ge	72		ug/L			22652	22468	1	KED
Ni	60	15.446	ug/L	0.587	3	20	15520	3	KED
Ni	62	15.490	ug/L	0.213	1	7	2557	2	KED
Cu	63	27.634	ug/L	0.583	2	30	82700	1	KED
Cu	65	28.322	ug/L	0.858	3	24	41865	2	KED
Zn	66	69.905	ug/L	1.277	1	40	27776	1	KED
Zn	67	63.629	ug/L	1.285	2	3	4316	2	KED
As	75	7.691	ug/L	0.234	3	5	1545	2	KED
Y	89		ug/L			208501	474080	1	Standard
Kr	83		ug/L			52	147	12	Standard
> In-1	115		ug/L			6222	6146	3	KED
Cd	111	0.309	ug/L	0.030	9	2	71	11	KED
Cd	114	0.262	ug/L	0.029	10	6	148	10	KED
> Tb	159		ug/L			498579	568919	3	Standard
Pb	208	23.536	ug/L	1.045	4	109	1111642	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:38:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49621	3	Standard
	Cl	37		ug/L			3416101	3573766	2	Standard
>	Sc	45		ug/L			429622	605872	0	Standard
	Cr	52	37.753	ug/L	0.366	0	16425	934225	1	Standard
	Cr	53	38.300	ug/L	0.526	1	102	107979	1	Standard
	Mn	55	151.129	ug/L	3.838	2	567	5283429	2	Standard
>	Ge	72		ug/L			22652	23482	2	KED
	Ni	60	42.936	ug/L	0.663	1	20	45072	3	KED
	Ni	62	40.852	ug/L	0.468	1	7	7034	2	KED
	Cu	63	53.652	ug/L	1.545	2	30	167737	0	KED
	Cu	65	53.211	ug/L	0.716	1	24	82181	1	KED
	Zn	66	149.858	ug/L	1.793	1	40	62182	1	KED
	Zn	67	141.073	ug/L	2.418	1	3	9993	0	KED
	As	75	32.212	ug/L	0.648	2	5	6745	1	KED
	Y	89		ug/L			208501	480323	1	Standard
	Kr	83		ug/L			52	147	8	Standard
>	In-1	115		ug/L			6222	6528	3	KED
	Cd	111	25.322	ug/L	0.788	3	2	5987	0	KED
	Cd	114	25.581	ug/L	0.542	2	6	14699	1	KED
>	Tb	159		ug/L			498579	562590	3	Standard
	Pb	208	52.086	ug/L	1.736	3	109	2433264	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:42:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	51210	2	Standard
Cl	37		ug/L			3416101	3553843	2	Standard
> Sc	45		ug/L			429622	572917	0	Standard
Cr	52	36.222	ug/L	0.135	0	16425	848456	0	Standard
Cr	53	35.920	ug/L	0.617	1	102	95764	1	Standard
Mn	55	146.009	ug/L	3.613	2	567	4825927	1	Standard
> Ge	72		ug/L			22652	22850	0	KED
Ni	60	41.240	ug/L	0.070	0	20	42118	0	KED
Ni	62	40.282	ug/L	0.358	0	7	6750	1	KED
Cu	63	52.781	ug/L	0.999	1	30	160615	1	KED
Cu	65	52.457	ug/L	0.655	1	24	78841	0	KED
Zn	66	144.558	ug/L	5.010	3	40	58366	2	KED
Zn	67	134.641	ug/L	2.230	1	3	9283	1	KED
As	75	32.365	ug/L	0.123	0	5	6595	0	KED
Y	89		ug/L			208501	441470	1	Standard
Kr	83		ug/L			52	144	9	Standard
> In-1	115		ug/L			6222	6163	1	KED
Cd	111	25.041	ug/L	0.665	2	2	5592	1	KED
Cd	114	25.434	ug/L	0.431	1	6	13801	0	KED
> Tb	159		ug/L			498579	528633	1	Standard
Pb	208	45.923	ug/L	0.635	1	109	2017204	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:47:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	62256	1	Standard
	Cl	**37**		ug/L			3416101	3593992	1	Standard
>	**Sc**	**45**		ug/L			429622	604297	1	Standard
	Cr	**52**	**35.146**	ug/L	0.497	1	16425	868970	0	Standard
	Cr	**53**	**34.853**	ug/L	0.689	1	102	98000	0	Standard
	Mn	**55**	**145.248**	ug/L	3.608	2	567	5063387	1	Standard
>	**Ge**	**72**		ug/L			22652	22724	0	KED
	Ni	**60**	**39.759**	ug/L	0.861	2	20	40380	1	KED
	Ni	**62**	**39.478**	ug/L	0.441	1	7	6578	0	KED
	Cu	**63**	**53.091**	ug/L	0.912	1	30	160675	1	KED
	Cu	**65**	**52.275**	ug/L	0.887	1	24	78136	1	KED
	Zn	**66**	**143.214**	ug/L	4.054	2	40	57509	2	KED
	Zn	**67**	**134.466**	ug/L	1.527	1	3	9220	0	KED
	As	**75**	**31.882**	ug/L	0.181	0	5	6461	0	KED
	Y	**89**		ug/L			208501	460324	3	Standard
	Kr	**83**		ug/L			52	155	12	Standard
>	**In-1**	**115**		ug/L			6222	6167	2	KED
	Cd	**111**	**24.963**	ug/L	0.560	2	2	5577	0	KED
	Cd	**114**	**25.236**	ug/L	0.413	1	6	13700	0	KED
>	**Tb**	**159**		ug/L			498579	559426	2	Standard
	Pb	**208**	**46.822**	ug/L	1.181	2	109	2175996	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:53:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	45749	1	Standard
Cl	37		ug/L			3416101	3498496	0	Standard
> Sc	45		ug/L			429622	651206	3	Standard
Cr	52	18.755	ug/L	0.271	1	16425	511211	2	Standard
Cr	53	18.982	ug/L	0.326	1	102	57575	2	Standard
Mn	55	240.141	ug/L	7.543	3	567	9016365	1	Standard
> Ge	72		ug/L			22652	22764	1	KED
Ni	60	18.758	ug/L	0.351	1	20	19093	0	KED
Ni	62	18.914	ug/L	0.488	2	7	3160	2	KED
Cu	63	125.257	ug/L	1.724	1	30	379693	1	KED
Cu	65	124.296	ug/L	1.123	0	24	186099	2	KED
Zn	66	156.708	ug/L	4.505	2	40	63026	2	KED
Zn	67	146.245	ug/L	4.366	2	3	10042	1	KED
As	75	3.481	ug/L	0.084	2	5	711	0	KED
Y	89		ug/L			208501	562581	0	Standard
Kr	83		ug/L			52	188	10	Standard
> In-1	115		ug/L			6222	6563	1	KED
Cd	111	0.279	ug/L	0.008	2	2	68	2	KED
Cd	114	0.244	ug/L	0.050	20	6	148	18	KED
> Tb	159		ug/L			498579	560464	4	Standard
Pb	208	46.637	ug/L	1.465	3	109	2170223	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 20:57:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	40393	0	Standard
	Cl	37		ug/L			3416101	3485697	1	Standard
>	Sc	45		ug/L			429622	622694	3	Standard
	Cr	52	12.029	ug/L	0.336	2	16425	321953	0	Standard
	Cr	53	12.127	ug/L	0.204	1	102	35226	1	Standard
	Mn	55	175.195	ug/L	2.895	1	567	6291969	1	Standard
>	Ge	72		ug/L			22652	22202	1	KED
	Ni	60	19.391	ug/L	0.629	3	20	19250	2	KED
	Ni	62	19.390	ug/L	0.707	3	7	3160	3	KED
	Cu	63	20.741	ug/L	0.344	1	30	61341	0	KED
	Cu	65	20.499	ug/L	0.671	3	24	29943	2	KED
	Zn	66	50.672	ug/L	0.477	0	40	19908	1	KED
	Zn	67	56.914	ug/L	2.087	3	3	3814	3	KED
	As	75	2.726	ug/L	0.144	5	5	544	4	KED
	Y	89		ug/L			208501	544333	4	Standard
	Kr	83		ug/L			52	180	8	Standard
>	In-1	115		ug/L			6222	6420	3	KED
	Cd	111	0.060	ug/L	0.009	15	2	16	15	KED
	Cd	114	0.068	ug/L	0.002	3	6	45	2	KED
>	Tb	159		ug/L			498579	564914	4	Standard
	Pb	208	5.801	ug/L	0.211	3	109	272205	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:01:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	38378	4	Standard
	Cl	37		ug/L			3416101	3497347	0	Standard
>	Sc	45		ug/L			429622	587945	5	Standard
	Cr	52	11.106	ug/L	0.145	1	16425	282483	4	Standard
	Cr	53	11.278	ug/L	0.136	1	102	30945	4	Standard
	Mn	55	184.428	ug/L	1.446	0	567	6255542	4	Standard
>	Ge	72		ug/L			22652	23117	1	KED
	Ni	60	19.800	ug/L	0.357	1	20	20466	0	KED
	Ni	62	18.886	ug/L	0.325	1	7	3205	1	KED
	Cu	63	14.566	ug/L	0.200	1	30	44865	0	KED
	Cu	65	14.840	ug/L	0.327	2	24	22582	1	KED
	Zn	66	42.893	ug/L	0.275	0	40	17552	0	KED
	Zn	67	47.729	ug/L	1.499	3	3	3331	3	KED
	As	75	1.773	ug/L	0.138	7	5	371	6	KED
	Y	89		ug/L			208501	507399	5	Standard
	Kr	83		ug/L			52	130	4	Standard
>	In-1	115		ug/L			6222	6403	1	KED
	Cd	111	0.033	ug/L	0.005	14	2	9	11	KED
	Cd	114	0.036	ug/L	0.014	38	6	27	26	KED
>	Tb	159		ug/L			498579	554384	7	Standard
	Pb	208	2.503	ug/L	0.143	5	109	115104	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:06:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	38069	0	Standard
Cl	37		ug/L			3416101	3499645	1	Standard
Sc	45		ug/L			429622	587504	0	Standard
Cr	52	10.627	ug/L	0.165	1	16425	271110	0	Standard
Cr	53	10.796	ug/L	0.062	0	102	29614	1	Standard
Mn	55	193.924	ug/L	1.395	0	567	6573200	0	Standard
Ge	72		ug/L			22652	23355	1	KED
Ni	60	17.849	ug/L	0.903	5	20	18638	4	KED
Ni	62	17.934	ug/L	1.118	6	7	3073	4	KED
Cu	63	15.555	ug/L	0.558	3	30	48397	2	KED
Cu	65	15.709	ug/L	0.420	2	24	24146	1	KED
Zn	66	41.452	ug/L	1.634	3	40	17132	2	KED
Zn	67	49.096	ug/L	1.766	3	3	3461	2	KED
As	75	1.882	ug/L	0.019	1	5	397	2	KED
Y	89		ug/L			208501	516913	1	Standard
Kr	83		ug/L			52	130	16	Standard
In-1	115		ug/L			6222	6347	0	KED
Cd	111	0.058	ug/L	0.023	39	2	15	33	KED
Cd	114	0.030	ug/L	0.012	39	6	23	27	KED
Tb	159		ug/L			498579	547977	2	Standard
Pb	208	2.582	ug/L	0.092	3	109	117635	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 21:10:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	38499	0	Standard
Cl	37		ug/L			3416101	3436714	2	Standard
> Sc	45		ug/L			429622	590895	2	Standard
Cr	52	15.120	ug/L	0.334	2	16425	378345	1	Standard
Cr	53	15.430	ug/L	0.338	2	102	42491	0	Standard
Mn	55	205.866	ug/L	6.296	3	567	7014591	0	Standard
> Ge	72		ug/L			22652	22189	1	KED
Ni	60	22.496	ug/L	0.436	1	20	22319	2	KED
Ni	62	22.373	ug/L	0.156	0	7	3643	0	KED
Cu	63	18.515	ug/L	0.284	1	30	54732	0	KED
Cu	65	19.133	ug/L	0.416	2	24	27941	2	KED
Zn	66	44.452	ug/L	0.524	1	40	17460	2	KED
Zn	67	51.710	ug/L	1.353	2	3	3465	3	KED
As	75	2.303	ug/L	0.131	5	5	460	5	KED
Y	89		ug/L			208501	595323	0	Standard
Kr	83		ug/L			52	174	9	Standard
> In-1	115		ug/L			6222	6152	1	KED
Cd	111	0.066	ug/L	0.004	5	2	16	3	KED
Cd	114	0.053	ug/L	0.008	14	6	35	9	KED
> Tb	159		ug/L			498579	541074	2	Standard
Pb	208	2.982	ug/L	0.051	1	109	134137	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 21:17:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31168	4	Standard
	Cl	**37**		ug/L			3416101	3666992	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	434741	1	Standard
⎢	**Cr**	**52**	**49.633**	ug/L	0.354	0	16425	876078	1	Standard
⎢	**Cr**	**53**	**48.647**	ug/L	0.128	0	102	98379	0	Standard
⎣	**Mn**	**55**	**50.118**	ug/L	0.284	0	567	1257482	0	Standard
⎡>	**Ge**	**72**		ug/L			22652	21515	0	KED
⎢	**Ni**	**60**	**50.869**	ug/L	1.612	3	20	48910	2	KED
⎢	**Ni**	**62**	**49.716**	ug/L	0.488	0	7	7842	0	KED
⎢	**Cu**	**63**	**49.663**	ug/L	0.771	1	30	142306	1	KED
⎢	**Cu**	**65**	**50.203**	ug/L	0.431	0	24	71050	0	KED
⎢	**Zn**	**66**	**50.312**	ug/L	1.544	3	40	19152	2	KED
⎢	**Zn**	**67**	**50.148**	ug/L	1.547	3	3	3257	2	KED
⎣	**As**	**75**	**50.676**	ug/L	1.209	2	5	9721	2	KED
	Y	**89**		ug/L			208501	214811	0	Standard
	Kr	**83**		ug/L			52	42	2	Standard
⎡>	**In-1**	**115**		ug/L			6222	5999	0	KED
⎢	**Cd**	**111**	**50.210**	ug/L	1.210	2	2	10913	1	KED
⎣	**Cd**	**114**	**49.810**	ug/L	0.928	1	6	26302	1	KED
⎡>	**Tb**	**159**		ug/L			498579	506574	4	Standard
⎣	**Pb**	**208**	**50.439**	ug/L	1.660	3	109	2121582	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 21:24:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	28231	2	Standard
	Cl	**37**		ug/L			3416101	3328721	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	425027	1	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.013	172	16425	16378	2	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.001	7	102	85	2	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	60	567	630	6	Standard
⌈>	**Ge**	**72**		ug/L			22652	21828	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	54	20	13	20	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.013	526	7	6	31	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	73	30	39	18	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.005	91	24	15	45	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.017	81	40	31	23	KED
|	**Zn**	**67**	**0.050**	ug/L	0.043	86	3	6	41	KED
⌊	**As**	**75**	**0.003**	ug/L	0.009	333	5	6	27	KED
	Y	**89**		ug/L			208501	214115	4	Standard
	Kr	**83**		ug/L			52	46	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	6043	3	KED
|	**Cd**	**111**	**0.009**	ug/L	0.007	80	2	4	35	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	31	6	3	36	KED
⌈>	**Tb**	**159**		ug/L			498579	492267	4	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	84	109	121	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 21:30:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32769	3	Standard
	Cl	**37**		ug/L			3416101	3360007	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460983	0	Standard
|	**Cr**	**52**	**1.583**	ug/L	0.060	3	16425	46696	2	Standard
|	**Cr**	**53**	**1.632**	ug/L	0.026	1	102	3606	1	Standard
⌊	**Mn**	**55**	**42.753**	ug/L	1.270	2	567	1137555	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	22965	0	KED
|	**Ni**	**60**	**1.333**	ug/L	0.025	1	20	1388	1	KED
|	**Ni**	**62**	**1.267**	ug/L	0.140	11	7	220	11	KED
|	**Cu**	**63**	**14.384**	ug/L	0.366	2	30	44016	2	KED
|	**Cu**	**65**	**14.049**	ug/L	0.360	2	24	21239	2	KED
|	**Zn**	**66**	**15.638**	ug/L	0.369	2	40	6383	1	KED
|	**Zn**	**67**	**14.604**	ug/L	1.019	6	3	1015	6	KED
⌊	**As**	**75**	**0.432**	ug/L	0.040	9	5	94	8	KED
	Y	**89**		ug/L			208501	244204	1	Standard
	Kr	**83**		ug/L			52	57	10	Standard
⌈>	**In-1**	**115**		ug/L			6222	6214	2	KED
|	**Cd**	**111**	**0.030**	ug/L	0.014	46	2	8	32	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.007	74	6	12	33	KED
⌈>	**Tb**	**159**		ug/L			498579	522653	1	Standard
⌊	**Pb**	**208**	**1.706**	ug/L	0.047	2	109	74177	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-25
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:35:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36950	4	Standard
	Cl	**37**		ug/L			3416101	3348458	4	Standard
⌈>	**Sc**	**45**		ug/L			429622	510986	7	Standard
|	**Cr**	**52**	**6.947**	ug/L	0.043	0	16425	160957	7	Standard
|	**Cr**	**53**	**7.168**	ug/L	0.192	2	102	17133	6	Standard
⌊	**Mn**	**55**	**178.843**	ug/L	4.747	2	567	5272051	7	Standard
⌈>	**Ge**	**72**		ug/L			22652	23785	0	KED
|	**Ni**	**60**	**6.559**	ug/L	0.122	1	20	6990	1	KED
|	**Ni**	**62**	**6.405**	ug/L	0.201	3	7	1123	3	KED
|	**Cu**	**63**	**67.232**	ug/L	0.661	0	30	212973	0	KED
|	**Cu**	**65**	**68.661**	ug/L	0.726	1	24	107421	1	KED
|	**Zn**	**66**	**72.988**	ug/L	1.411	1	40	30702	2	KED
|	**Zn**	**67**	**68.701**	ug/L	0.862	1	3	4932	1	KED
⌊	**As**	**75**	**2.125**	ug/L	0.044	2	5	456	2	KED
	Y	**89**		ug/L			208501	341924	8	Standard
	Kr	**83**		ug/L			52	93	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6622	0	KED
|	**Cd**	**111**	**0.084**	ug/L	0.013	16	2	22	14	KED
⌊	**Cd**	**114**	**0.074**	ug/L	0.021	27	6	50	23	KED
⌈>	**Tb**	**159**		ug/L			498579	513382	4	Standard
⌊	**Pb**	**208**	**8.266**	ug/L	0.131	1	109	352917	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:43:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36621	5	Standard
	Cl	**37**		ug/L			3416101	3415109	4	Standard
>	**Sc**	**45**		ug/L			429622	512853	0	Standard
	Cr	**52**	**7.818**	ug/L	0.090	1	16425	179309	1	Standard
	Cr	**53**	**7.839**	ug/L	0.067	0	102	18804	0	Standard
	Mn	**55**	**178.327**	ug/L	0.620	0	567	5276760	1	Standard
>	**Ge**	**72**		ug/L			22652	22261	1	KED
	Ni	**60**	**7.337**	ug/L	0.237	3	20	7318	4	KED
	Ni	**62**	**7.469**	ug/L	0.418	5	7	1224	4	KED
	Cu	**63**	**69.282**	ug/L	1.307	1	30	205405	2	KED
	Cu	**65**	**69.871**	ug/L	1.987	2	24	102322	3	KED
	Zn	**66**	**72.792**	ug/L	2.608	3	40	28649	2	KED
	Zn	**67**	**69.269**	ug/L	2.416	3	3	4653	2	KED
	As	**75**	**2.067**	ug/L	0.092	4	5	415	3	KED
	Y	**89**		ug/L			208501	351106	2	Standard
	Kr	**83**		ug/L			52	85	3	Standard
>	**In-1**	**115**		ug/L			6222	6056	2	KED
	Cd	**111**	**0.110**	ug/L	0.017	15	2	26	12	KED
	Cd	**114**	**0.092**	ug/L	0.007	7	6	55	9	KED
>	**Tb**	**159**		ug/L			498579	515225	2	Standard
	Pb	**208**	**8.991**	ug/L	0.195	2	109	384911	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:47:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	37342	0	Standard
	Cl	37		ug/L			3416101	3421286	1	Standard
>	Sc	45		ug/L			429622	545832	2	Standard
	Cr	52	16.844	ug/L	0.214	1	16425	387035	2	Standard
	Cr	53	17.296	ug/L	0.400	2	102	44008	4	Standard
	Mn	55	188.393	ug/L	2.013	1	567	5932891	2	Standard
>	Ge	72		ug/L			22652	23435	1	KED
	Ni	60	18.073	ug/L	0.295	1	20	18939	0	KED
	Ni	62	17.883	ug/L	0.504	2	7	3078	4	KED
	Cu	63	94.704	ug/L	0.501	0	30	295568	1	KED
	Cu	65	93.552	ug/L	1.277	1	24	144177	0	KED
	Zn	66	113.829	ug/L	1.122	0	40	47157	2	KED
	Zn	67	106.321	ug/L	1.945	1	3	7518	0	KED
	As	75	11.912	ug/L	0.292	2	5	2493	2	KED
	Y	89		ug/L			208501	378246	2	Standard
	Kr	83		ug/L			52	108	29	Standard
>	In-1	115		ug/L			6222	6483	1	KED
	Cd	111	10.808	ug/L	0.116	1	2	2540	1	KED
	Cd	114	10.789	ug/L	0.238	2	6	6163	2	KED
>	Tb	159		ug/L			498579	536548	4	Standard
	Pb	208	19.974	ug/L	0.587	2	109	889971	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:52:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35329	2	Standard
	Cl	**37**		ug/L			3416101	3495278	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	522864	1	Standard
|	**Cr**	**52**	**16.917**	ug/L	0.371	2	16425	372252	0	Standard
|	**Cr**	**53**	**16.807**	ug/L	0.219	1	102	40957	0	Standard
⌊	**Mn**	**55**	**238.098**	ug/L	1.706	0	567	7182666	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22411	0	KED
|	**Ni**	**60**	**18.652**	ug/L	0.610	3	20	18692	2	KED
|	**Ni**	**62**	**18.196**	ug/L	0.861	4	7	2993	3	KED
|	**Cu**	**63**	**82.278**	ug/L	0.226	0	30	245569	0	KED
|	**Cu**	**65**	**83.327**	ug/L	1.156	1	24	122823	1	KED
|	**Zn**	**66**	**110.875**	ug/L	0.742	0	40	43923	1	KED
|	**Zn**	**67**	**102.047**	ug/L	1.523	1	3	6901	0	KED
⌊	**As**	**75**	**11.943**	ug/L	0.416	3	5	2390	3	KED
	Y	**89**		ug/L			208501	358541	2	Standard
	Kr	**83**		ug/L			52	104	18	Standard
⌈>	**In-1**	**115**		ug/L			6222	6163	2	KED
|	**Cd**	**111**	**10.573**	ug/L	0.308	2	2	2363	3	KED
⌊	**Cd**	**114**	**10.864**	ug/L	0.378	3	6	5898	2	KED
⌈>	**Tb**	**159**		ug/L			498579	520646	3	Standard
⌊	**Pb**	**208**	**19.540**	ug/L	0.709	3	109	844780	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0006-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 21:56:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	37694	0	Standard
	Cl	**37**		ug/L			3416101	3351546	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	501226	0	Standard
|	**Cr**	**52**	**29.835**	ug/L	0.469	1	16425	614753	0	Standard
|	**Cr**	**53**	**30.188**	ug/L	0.539	1	102	70427	1	Standard
⌊	**Mn**	**55**	**207.563**	ug/L	3.241	1	567	6002068	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22603	1	KED
|	**Ni**	**60**	**32.510**	ug/L	0.503	1	20	32844	0	KED
|	**Ni**	**62**	**32.863**	ug/L	1.409	4	7	5446	2	KED
|	**Cu**	**63**	**95.182**	ug/L	0.392	0	30	286536	2	KED
|	**Cu**	**65**	**96.112**	ug/L	0.528	0	24	142877	1	KED
|	**Zn**	**66**	**157.316**	ug/L	1.130	0	40	62835	1	KED
|	**Zn**	**67**	**149.266**	ug/L	4.233	2	3	10177	1	KED
⌊	**As**	**75**	**27.545**	ug/L	0.331	1	5	5553	1	KED
	Y	**89**		ug/L			208501	344555	2	Standard
	Kr	**83**		ug/L			52	106	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6294	1	KED
|	**Cd**	**111**	**25.870**	ug/L	0.585	2	2	5900	1	KED
⌊	**Cd**	**114**	**26.669**	ug/L	0.790	2	6	14777	1	KED
⌈>	**Tb**	**159**		ug/L			498579	516235	2	Standard
⌊	**Pb**	**208**	**34.752**	ug/L	0.928	2	109	1490377	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:01:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	38446	2	Standard
	Cl	37		ug/L			3416101	3480483	1	Standard
>	Sc	45		ug/L			429622	652384	1	Standard
	Cr	52	17.095	ug/L	0.249	1	16425	469094	0	Standard
	Cr	53	17.086	ug/L	0.463	2	102	51957	3	Standard
	Mn	55	193.596	ug/L	2.404	1	567	7286013	0	Standard
>	Ge	72		ug/L			22652	22245	0	KED
	Ni	60	19.278	ug/L	0.200	1	20	19178	1	KED
	Ni	62	19.381	ug/L	0.597	3	7	3165	3	KED
	Cu	63	20.587	ug/L	0.358	1	30	61012	1	KED
	Cu	65	21.248	ug/L	0.326	1	24	31104	1	KED
	Zn	66	45.102	ug/L	0.757	1	40	17758	1	KED
	Zn	67	52.733	ug/L	1.076	2	3	3542	2	KED
	As	75	2.549	ug/L	0.049	1	5	510	1	KED
	Y	89		ug/L			208501	557040	2	Standard
	Kr	83		ug/L			52	171	10	Standard
>	In-1	115		ug/L			6222	6171	1	KED
	Cd	111	0.065	ug/L	0.012	19	2	16	17	KED
	Cd	114	0.066	ug/L	0.027	41	6	42	33	KED
>	Tb	159		ug/L			498579	529246	2	Standard
	Pb	208	3.695	ug/L	0.059	1	109	162599	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:05:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	42791	2	Standard
	Cl	37		ug/L			3416101	3466894	4	Standard
>	Sc	45		ug/L			429622	650540	1	Standard
	Cr	52	15.716	ug/L	0.190	1	16425	432050	1	Standard
	Cr	53	15.968	ug/L	0.243	1	102	48416	0	Standard
	Mn	55	184.105	ug/L	1.087	0	567	6909882	1	Standard
>	Ge	72		ug/L			22652	21567	1	KED
	Ni	60	20.114	ug/L	0.322	1	20	19396	0	KED
	Ni	62	19.687	ug/L	0.170	0	7	3117	0	KED
	Cu	63	22.237	ug/L	0.274	1	30	63899	2	KED
	Cu	65	22.166	ug/L	0.219	0	24	31458	0	KED
	Zn	66	47.707	ug/L	1.217	2	40	18209	2	KED
	Zn	67	55.199	ug/L	0.943	1	3	3594	2	KED
	As	75	2.320	ug/L	0.019	0	5	451	0	KED
	Y	89		ug/L			208501	565908	2	Standard
	Kr	83		ug/L			52	193	12	Standard
>	In-1	115		ug/L			6222	5930	1	KED
	Cd	111	0.069	ug/L	0.022	32	2	16	26	KED
	Cd	114	0.067	ug/L	0.014	21	6	41	16	KED
>	Tb	159		ug/L			498579	532526	3	Standard
	Pb	208	3.611	ug/L	0.105	2	109	159795	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:10:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46762	2	Standard
	Cl	37		ug/L			3416101	3514699	3	Standard
>	Sc	45		ug/L			429622	657737	1	Standard
	Cr	52	15.292	ug/L	0.230	1	16425	425747	1	Standard
	Cr	53	15.671	ug/L	0.664	4	102	48032	2	Standard
	Mn	55	162.071	ug/L	3.855	2	567	6149178	1	Standard
>	Ge	72		ug/L			22652	22750	3	KED
	Ni	60	14.946	ug/L	0.272	1	20	15204	1	KED
	Ni	62	14.794	ug/L	0.156	1	7	2472	2	KED
	Cu	63	17.092	ug/L	0.581	3	30	51776	2	KED
	Cu	65	16.919	ug/L	0.602	3	24	25325	3	KED
	Zn	66	38.504	ug/L	0.217	0	40	15512	3	KED
	Zn	67	46.345	ug/L	1.745	3	3	3181	0	KED
	As	75	2.334	ug/L	0.152	6	5	478	3	KED
	Y	89		ug/L			208501	570365	2	Standard
	Kr	83		ug/L			52	186	16	Standard
>	In-1	115		ug/L			6222	6281	0	KED
	Cd	111	0.054	ug/L	0.013	23	2	14	19	KED
	Cd	114	0.063	ug/L	0.013	21	6	41	17	KED
>	Tb	159		ug/L			498579	548942	2	Standard
	Pb	208	3.450	ug/L	0.034	0	109	157495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 22:14:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49197	4	Standard
	Cl	37		ug/L			3416101	3536734	0	Standard
>	Sc	45		ug/L			429622	736691	2	Standard
	Cr	52	16.899	ug/L	0.162	0	16425	523984	1	Standard
	Cr	53	17.048	ug/L	0.037	0	102	58537	2	Standard
	Mn	55	148.796	ug/L	3.862	2	567	6322531	0	Standard
>	Ge	72		ug/L			22652	22423	0	KED
	Ni	60	17.273	ug/L	0.087	0	20	17322	0	KED
	Ni	62	16.912	ug/L	0.384	2	7	2785	2	KED
	Cu	63	21.968	ug/L	0.559	2	30	65620	1	KED
	Cu	65	22.166	ug/L	0.325	1	24	32709	1	KED
	Zn	66	52.695	ug/L	1.145	2	40	20906	1	KED
	Zn	67	56.418	ug/L	2.065	3	3	3820	4	KED
	As	75	2.308	ug/L	0.110	4	5	466	5	KED
	Y	89		ug/L			208501	650855	2	Standard
	Kr	83		ug/L			52	234	6	Standard
>	In-1	115		ug/L			6222	6018	1	KED
	Cd	111	0.083	ug/L	0.010	12	2	20	11	KED
	Cd	114	0.071	ug/L	0.031	43	6	43	35	KED
>	Tb	159		ug/L			498579	558397	3	Standard
	Pb	208	4.136	ug/L	0.144	3	109	191889	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 22:21:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31157	2	Standard
	Cl	**37**		ug/L			3416101	3618929	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	420383	1	Standard
⎢	**Cr**	**52**	**50.546**	ug/L	0.344	0	16425	862360	1	Standard
⎢	**Cr**	**53**	**50.605**	ug/L	0.635	1	102	98943	0	Standard
⎣	**Mn**	**55**	**51.822**	ug/L	0.433	0	567	1257198	0	Standard
⎡>	**Ge**	**72**		ug/L			22652	21487	0	KED
⎢	**Ni**	**60**	**49.839**	ug/L	0.606	1	20	47863	1	KED
⎢	**Ni**	**62**	**50.795**	ug/L	0.424	0	7	8002	1	KED
⎢	**Cu**	**63**	**50.219**	ug/L	1.292	2	30	143718	2	KED
⎢	**Cu**	**65**	**50.642**	ug/L	0.674	1	24	71577	0	KED
⎢	**Zn**	**66**	**50.420**	ug/L	0.518	1	40	19170	0	KED
⎢	**Zn**	**67**	**49.883**	ug/L	1.347	2	3	3236	2	KED
⎣	**As**	**75**	**49.815**	ug/L	0.436	0	5	9543	0	KED
	Y	**89**		ug/L			208501	206034	1	Standard
	Kr	**83**		ug/L			52	57	17	Standard
⎡>	**In-1**	**115**		ug/L			6222	5930	3	KED
⎢	**Cd**	**111**	**51.069**	ug/L	1.784	3	2	10963	0	KED
⎣	**Cd**	**114**	**51.210**	ug/L	1.494	2	6	26715	1	KED
⎡>	**Tb**	**159**		ug/L			498579	492587	3	Standard
⎣	**Pb**	**208**	**52.062**	ug/L	1.589	3	109	2129489	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 22:29:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	28002	1	Standard
	Cl	**37**		ug/L			3416101	3314931	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	398335	1	Standard
|	**Cr**	**52**	**0.028**	ug/L	0.003	9	16425	15674	2	Standard
|	**Cr**	**53**	**-0.001**	ug/L	0.004	389	102	93	7	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	33	567	571	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21763	3	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.009	361	20	17	48	KED
|	**Ni**	**62**	**-0.026**	ug/L	0.019	71	7	3	91	KED
|	**Cu**	**63**	**0.003**	ug/L	0.005	158	30	38	39	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.000	5	24	15	0	KED
|	**Zn**	**66**	**-0.001**	ug/L	0.040	3843	40	38	40	KED
|	**Zn**	**67**	**0.052**	ug/L	0.047	91	3	6	41	KED
⌊	**As**	**75**	**0.007**	ug/L	0.007	107	5	6	20	KED
	Y	**89**		ug/L			208501	197792	1	Standard
	Kr	**83**		ug/L			52	36	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5775	2	KED
|	**Cd**	**111**	**0.011**	ug/L	0.010	84	2	4	44	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.007	122	6	3	89	KED
⌈>	**Tb**	**159**		ug/L			498579	467450	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	90	109	118	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 22:33:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32522	2	Standard
	Cl	**37**		ug/L			3416101	3288169	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	434060	3	Standard
|	**Cr**	**52**	**2.227**	ug/L	0.006	0	16425	55098	3	Standard
|	**Cr**	**53**	**2.306**	ug/L	0.045	1	102	4753	1	Standard
⌊	**Mn**	**55**	**28.582**	ug/L	0.336	1	567	716090	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21449	0	KED
|	**Ni**	**60**	**1.817**	ug/L	0.047	2	20	1760	1	KED
|	**Ni**	**62**	**1.688**	ug/L	0.120	7	7	272	6	KED
|	**Cu**	**63**	**7.117**	ug/L	0.053	0	30	20357	1	KED
|	**Cu**	**65**	**6.974**	ug/L	0.091	1	24	9858	0	KED
|	**Zn**	**66**	**16.720**	ug/L	0.258	1	40	6371	0	KED
|	**Zn**	**67**	**15.287**	ug/L	0.614	4	3	992	3	KED
⌊	**As**	**75**	**0.342**	ug/L	0.036	10	5	70	8	KED
	Y	**89**		ug/L			208501	231742	0	Standard
	Kr	**83**		ug/L			52	55	15	Standard
⌈>	**In-1**	**115**		ug/L			6222	5879	2	KED
|	**Cd**	**111**	**0.037**	ug/L	0.026	68	2	10	56	KED
⌊	**Cd**	**114**	**0.019**	ug/L	0.017	92	6	16	55	KED
⌈>	**Tb**	**159**		ug/L			498579	487241	4	Standard
⌊	**Pb**	**208**	**4.696**	ug/L	0.134	2	109	190102	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-02
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:37:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	41956	3	Standard
	Cl	**37**		ug/L			3416101	3378365	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	523593	1	Standard
|	**Cr**	**52**	**9.601**	ug/L	0.139	1	16425	220265	2	Standard
|	**Cr**	**53**	**9.731**	ug/L	0.119	1	102	23798	0	Standard
⌊	**Mn**	**55**	**116.999**	ug/L	1.175	1	567	3534573	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22536	2	KED
|	**Ni**	**60**	**8.262**	ug/L	0.071	0	20	8337	1	KED
|	**Ni**	**62**	**8.396**	ug/L	0.447	5	7	1392	3	KED
|	**Cu**	**63**	**33.005**	ug/L	0.501	1	30	99053	0	KED
|	**Cu**	**65**	**33.527**	ug/L	0.980	2	24	49693	1	KED
|	**Zn**	**66**	**76.153**	ug/L	1.565	2	40	30340	0	KED
|	**Zn**	**67**	**71.244**	ug/L	0.828	1	3	4845	1	KED
⌊	**As**	**75**	**1.754**	ug/L	0.040	2	5	358	1	KED
	Y	**89**		ug/L			208501	371244	2	Standard
	Kr	**83**		ug/L			52	113	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	6324	0	KED
|	**Cd**	**111**	**0.174**	ug/L	0.020	11	2	42	10	KED
⌊	**Cd**	**114**	**0.135**	ug/L	0.014	10	6	82	10	KED
⌈>	**Tb**	**159**		ug/L			498579	531146	4	Standard
⌊	**Pb**	**208**	**21.617**	ug/L	0.789	3	109	953333	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:42:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	36772	2	Standard
	Cl	**37**		ug/L			3416101	3375995	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	506211	2	Standard
|	**Cr**	**52**	**9.658**	ug/L	0.262	2	16425	214004	1	Standard
|	**Cr**	**53**	**9.833**	ug/L	0.190	1	102	23243	1	Standard
⌊	**Mn**	**55**	**115.608**	ug/L	0.960	0	567	3376336	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21583	2	KED
|	**Ni**	**60**	**8.330**	ug/L	0.283	3	20	8047	2	KED
|	**Ni**	**62**	**8.533**	ug/L	0.304	3	7	1355	1	KED
|	**Cu**	**63**	**32.897**	ug/L	0.837	2	30	94547	1	KED
|	**Cu**	**65**	**32.633**	ug/L	0.827	2	24	46333	2	KED
|	**Zn**	**66**	**76.416**	ug/L	1.804	2	40	29159	1	KED
|	**Zn**	**67**	**74.310**	ug/L	1.930	2	3	4839	0	KED
⌊	**As**	**75**	**2.318**	ug/L	0.044	1	5	451	1	KED
	Y	**89**		ug/L			208501	352283	3	Standard
	Kr	**83**		ug/L			52	80	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5976	0	KED
|	**Cd**	**111**	**0.176**	ug/L	0.012	6	2	40	5	KED
⌊	**Cd**	**114**	**0.154**	ug/L	0.002	1	6	87	1	KED
⌈>	**Tb**	**159**		ug/L			498579	501836	3	Standard
⌊	**Pb**	**208**	**24.170**	ug/L	0.734	3	109	1007279	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:46:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	37051	1	Standard
	Cl	**37**		ug/L			3416101	3404997	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	517829	2	Standard
|	**Cr**	**52**	**18.596**	ug/L	0.572	3	16425	403231	2	Standard
|	**Cr**	**53**	**19.040**	ug/L	0.162	0	102	45936	2	Standard
⌊	**Mn**	**55**	**125.449**	ug/L	2.341	1	567	3747523	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21663	1	KED
|	**Ni**	**60**	**19.261**	ug/L	0.741	3	20	18655	2	KED
|	**Ni**	**62**	**19.277**	ug/L	0.893	4	7	3065	3	KED
|	**Cu**	**63**	**43.535**	ug/L	1.449	3	30	125582	2	KED
|	**Cu**	**65**	**43.738**	ug/L	0.461	1	24	62326	0	KED
|	**Zn**	**66**	**122.251**	ug/L	2.016	1	40	46805	1	KED
|	**Zn**	**67**	**112.199**	ug/L	2.697	2	3	7333	1	KED
⌊	**As**	**75**	**11.299**	ug/L	0.229	2	5	2186	0	KED
	Y	**89**		ug/L			208501	359585	0	Standard
	Kr	**83**		ug/L			52	100	16	Standard
⌈>	**In-1**	**115**		ug/L			6222	6035	1	KED
|	**Cd**	**111**	**10.763**	ug/L	0.428	3	2	2354	2	KED
⌊	**Cd**	**114**	**10.472**	ug/L	0.051	0	6	5569	2	KED
⌈>	**Tb**	**159**		ug/L			498579	515767	1	Standard
⌊	**Pb**	**208**	**33.474**	ug/L	0.743	2	109	1434462	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:50:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	38200	0	Standard
	Cl	**37**		ug/L			3416101	3305780	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	507760	1	Standard
|	**Cr**	**52**	**18.989**	ug/L	0.239	1	16425	403464	2	Standard
|	**Cr**	**53**	**19.177**	ug/L	0.198	1	102	45364	1	Standard
⌊	**Mn**	**55**	**126.628**	ug/L	2.487	1	567	3710520	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21739	2	KED
|	**Ni**	**60**	**19.423**	ug/L	0.589	3	20	18877	2	KED
|	**Ni**	**62**	**19.445**	ug/L	0.250	1	7	3103	1	KED
|	**Cu**	**63**	**47.219**	ug/L	0.743	1	30	136689	0	KED
|	**Cu**	**65**	**47.803**	ug/L	0.325	0	24	68356	2	KED
|	**Zn**	**66**	**110.906**	ug/L	2.740	2	40	42603	0	KED
|	**Zn**	**67**	**104.372**	ug/L	0.788	0	3	6847	2	KED
⌊	**As**	**75**	**11.433**	ug/L	0.269	2	5	2219	1	KED
	Y	**89**		ug/L			208501	346328	3	Standard
	Kr	**83**		ug/L			52	99	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5908	2	KED
|	**Cd**	**111**	**10.936**	ug/L	0.366	3	2	2341	1	KED
⌊	**Cd**	**114**	**10.925**	ug/L	0.395	3	6	5683	0	KED
⌈>	**Tb**	**159**		ug/L			498579	511473	4	Standard
⌊	**Pb**	**208**	**32.254**	ug/L	1.247	3	109	1369407	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0035-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 22:55:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	40597	1	Standard
	Cl	**37**		ug/L			3416101	3372676	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	493028	5	Standard
|	**Cr**	**52**	**32.816**	ug/L	1.248	3	16425	662415	2	Standard
|	**Cr**	**53**	**32.977**	ug/L	1.155	3	102	75571	2	Standard
⌊	**Mn**	**55**	**143.695**	ug/L	5.791	4	567	4081614	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22147	2	KED
|	**Ni**	**60**	**33.665**	ug/L	0.675	2	20	33319	1	KED
|	**Ni**	**62**	**34.126**	ug/L	1.096	3	7	5540	0	KED
|	**Cu**	**63**	**59.760**	ug/L	1.464	2	30	176208	0	KED
|	**Cu**	**65**	**58.879**	ug/L	2.549	4	24	85715	1	KED
|	**Zn**	**66**	**159.591**	ug/L	3.387	2	40	62446	1	KED
|	**Zn**	**67**	**145.748**	ug/L	4.209	2	3	9736	1	KED
⌊	**As**	**75**	**27.034**	ug/L	0.535	1	5	5339	0	KED
	Y	**89**		ug/L			208501	354766	3	Standard
	Kr	**83**		ug/L			52	93	13	Standard
⌈>	**In-1**	**115**		ug/L			6222	5998	1	KED
|	**Cd**	**111**	**26.090**	ug/L	0.416	1	2	5670	1	KED
⌊	**Cd**	**114**	**26.836**	ug/L	0.291	1	6	14171	0	KED
⌈>	**Tb**	**159**		ug/L			498579	497269	5	Standard
⌊	**Pb**	**208**	**49.898**	ug/L	1.924	3	109	2059278	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:00:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	47045	1	Standard
	Cl	37		ug/L			3416101	3385921	2	Standard
>	Sc	45		ug/L			429622	685268	1	Standard
	Cr	52	17.143	ug/L	0.182	1	16425	494085	0	Standard
	Cr	53	17.234	ug/L	0.104	0	102	55042	1	Standard
	Mn	55	190.275	ug/L	4.153	2	567	7522792	2	Standard
>	Ge	72		ug/L			22652	21537	1	KED
	Ni	60	22.392	ug/L	0.505	2	20	21558	0	KED
	Ni	62	22.420	ug/L	1.356	6	7	3542	4	KED
	Cu	63	26.419	ug/L	0.610	2	30	75777	0	KED
	Cu	65	26.161	ug/L	0.468	1	24	37070	1	KED
	Zn	66	51.423	ug/L	1.774	3	40	19591	2	KED
	Zn	67	58.095	ug/L	4.014	6	3	3775	5	KED
	As	75	2.599	ug/L	0.149	5	5	504	4	KED
	Y	89		ug/L			208501	614899	1	Standard
	Kr	83		ug/L			52	228	3	Standard
>	In-1	115		ug/L			6222	6106	1	KED
	Cd	111	0.075	ug/L	0.024	32	2	18	28	KED
	Cd	114	0.070	ug/L	0.021	30	6	44	26	KED
>	Tb	159		ug/L			498579	527436	2	Standard
	Pb	208	4.237	ug/L	0.141	3	109	185694	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-19
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:04:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	51540	0	Standard
	Cl	37		ug/L			3416101	3417436	1	Standard
>	Sc	45		ug/L			429622	564025	1	Standard
	Cr	52	14.222	ug/L	0.329	2	16425	341054	1	Standard
	Cr	53	14.421	ug/L	0.326	2	102	37926	1	Standard
	Mn	55	216.875	ug/L	2.984	1	567	7057307	1	Standard
>	Ge	72		ug/L			22652	21188	3	KED
	Ni	60	13.438	ug/L	0.171	1	20	12735	2	KED
	Ni	62	13.466	ug/L	0.205	1	7	2097	4	KED
	Cu	63	44.581	ug/L	1.445	3	30	125710	1	KED
	Cu	65	44.501	ug/L	1.227	2	24	61985	1	KED
	Zn	66	131.471	ug/L	2.034	1	40	49247	5	KED
	Zn	67	124.551	ug/L	3.138	2	3	7958	1	KED
	As	75	3.635	ug/L	0.097	2	5	691	4	KED
	Y	89		ug/L			208501	460766	1	Standard
	Kr	83		ug/L			52	131	8	Standard
>	In-1	115		ug/L			6222	5719	2	KED
	Cd	111	0.290	ug/L	0.013	4	2	62	4	KED
	Cd	114	0.264	ug/L	0.028	10	6	139	12	KED
>	Tb	159		ug/L			498579	516331	2	Standard
	Pb	208	18.472	ug/L	0.421	2	109	792412	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-20
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:08:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	48665	1	Standard
	Cl	37		ug/L			3416101	3418241	0	Standard
>	Sc	45		ug/L			429622	629297	1	Standard
	Cr	52	16.157	ug/L	0.154	0	16425	428984	0	Standard
	Cr	53	16.497	ug/L	0.022	0	102	48391	1	Standard
	Mn	55	304.586	ug/L	3.680	1	567	11057174	1	Standard
>	Ge	72		ug/L			22652	21670	2	KED
	Ni	60	18.043	ug/L	0.081	0	20	17486	2	KED
	Ni	62	18.602	ug/L	0.486	2	7	2959	2	KED
	Cu	63	41.576	ug/L	0.481	1	30	119983	1	KED
	Cu	65	41.644	ug/L	0.583	1	24	59354	1	KED
	Zn	66	139.453	ug/L	3.679	2	40	53387	0	KED
	Zn	67	136.309	ug/L	2.978	2	3	8911	1	KED
	As	75	4.190	ug/L	0.060	1	5	814	1	KED
	Y	89		ug/L			208501	559884	2	Standard
	Kr	83		ug/L			52	187	4	Standard
>	In-1	115		ug/L			6222	5842	3	KED
	Cd	111	0.345	ug/L	0.071	20	2	74	19	KED
	Cd	114	0.248	ug/L	0.052	20	6	134	21	KED
>	Tb	159		ug/L			498579	523748	4	Standard
	Pb	208	27.593	ug/L	1.163	4	109	1199697	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-21
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, January 09, 2023 23:13:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	49977	2	Standard
Cl	37		ug/L			3416101	3370637	0	Standard
> Sc	45		ug/L			429622	598748	1	Standard
Cr	52	15.427	ug/L	0.163	1	16425	390813	2	Standard
Cr	53	15.516	ug/L	0.049	0	102	43314	1	Standard
Mn	55	292.092	ug/L	2.013	0	567	10089737	1	Standard
> Ge	72		ug/L			22652	21885	2	KED
Ni	60	18.065	ug/L	0.325	1	20	17678	1	KED
Ni	62	17.753	ug/L	0.483	2	7	2852	1	KED
Cu	63	29.005	ug/L	0.782	2	30	84544	2	KED
Cu	65	28.871	ug/L	0.678	2	24	41558	0	KED
Zn	66	127.421	ug/L	3.498	2	40	49268	1	KED
Zn	67	122.468	ug/L	4.460	3	3	8083	1	KED
As	75	3.292	ug/L	0.078	2	5	647	4	KED
Y	89		ug/L			208501	520524	4	Standard
Kr	83		ug/L			52	174	19	Standard
> In-1	115		ug/L			6222	6022	2	KED
Cd	111	0.200	ug/L	0.026	12	2	45	9	KED
Cd	114	0.187	ug/L	0.028	15	6	105	13	KED
> Tb	159		ug/L			498579	515472	2	Standard
Pb	208	18.841	ug/L	0.627	3	109	806722	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:20:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30212	2	Standard
	Cl	**37**		ug/L			3416101	3551990	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	419381	2	Standard
⎢	**Cr**	**52**	**50.352**	ug/L	0.880	1	16425	856958	1	Standard
⎢	**Cr**	**53**	**50.200**	ug/L	0.153	0	102	97928	1	Standard
⎣	**Mn**	**55**	**50.613**	ug/L	0.637	1	567	1224861	1	Standard
⎡>	**Ge**	**72**		ug/L			22652	21189	1	KED
⎢	**Ni**	**60**	**50.310**	ug/L	1.260	2	20	47635	1	KED
⎢	**Ni**	**62**	**49.288**	ug/L	0.553	1	7	7656	1	KED
⎢	**Cu**	**63**	**49.978**	ug/L	0.477	0	30	141036	0	KED
⎢	**Cu**	**65**	**49.692**	ug/L	0.477	0	24	69255	0	KED
⎢	**Zn**	**66**	**49.994**	ug/L	1.216	2	40	18748	3	KED
⎢	**Zn**	**67**	**49.241**	ug/L	0.933	1	3	3150	1	KED
⎣	**As**	**75**	**49.268**	ug/L	0.469	0	5	9307	0	KED
	Y	**89**		ug/L			208501	204002	1	Standard
	Kr	**83**		ug/L			52	70	9	Standard
⎡>	**In-1**	**115**		ug/L			6222	5743	1	KED
⎢	**Cd**	**111**	**50.781**	ug/L	1.134	2	2	10566	1	KED
⎣	**Cd**	**114**	**51.216**	ug/L	1.216	2	6	25889	1	KED
⎡>	**Tb**	**159**		ug/L			498579	487080	4	Standard
⎣	**Pb**	**208**	**51.990**	ug/L	2.142	4	109	2101826	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:27:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30670	0	Standard
	Cl	**37**		ug/L			3416101	3321596	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	432054	3	Standard
⎢	**Cr**	**52**	**-0.008**	ug/L	0.016	207	16425	16384	3	Standard
⎢	**Cr**	**53**	**-0.006**	ug/L	0.002	29	102	91	1	Standard
⎣	**Mn**	**55**	**0.001**	ug/L	0.002	180	567	594	3	Standard
⎡>	**Ge**	**72**		ug/L			22652	21902	2	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.005	300	20	17	26	KED
⎢	**Ni**	**62**	**-0.030**	ug/L	0.007	24	7	2	43	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.005	408	30	33	43	KED
⎢	**Cu**	**65**	**-0.004**	ug/L	0.002	57	24	17	19	KED
⎢	**Zn**	**66**	**-0.018**	ug/L	0.017	96	40	32	17	KED
⎢	**Zn**	**67**	**0.040**	ug/L	0.091	227	3	6	96	KED
⎣	**As**	**75**	**0.001**	ug/L	0.007	626	5	5	20	KED
	Y	**89**		ug/L			208501	205788	1	Standard
	Kr	**83**		ug/L			52	50	11	Standard
⎡>	**In-1**	**115**		ug/L			6222	6189	2	KED
⎢	**Cd**	**111**	**0.000**	ug/L	0.003	3125	2	2	24	KED
⎣	**Cd**	**114**	**-0.011**	ug/L	0.002	20	6	1	106	KED
⎡>	**Tb**	**159**		ug/L			498579	481385	5	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	70	109	132	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0516-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, January 09, 2023 23:31:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	126290	2	Standard
	Cl	**37**		ug/L			3416101	3454727	5	Standard
>	**Sc**	**45**		ug/L			429622	418378	9	Standard
	Cr	**52**	**75.268**	ug/L	3.264	4	16425	1266804	5	Standard
	Cr	**53**	**74.725**	ug/L	3.083	4	102	144995	5	Standard
	Mn	**55**	**14.440**	ug/L	0.534	3	567	348285	6	Standard
>	**Ge**	**72**		ug/L			22652	21749	0	KED
	Ni	**60**	**1.755**	ug/L	0.054	3	20	1724	2	KED
	Ni	**62**	**1.664**	ug/L	0.111	6	7	272	6	KED
	Cu	**63**	**3.591**	ug/L	0.047	1	30	10428	1	KED
	Cu	**65**	**3.646**	ug/L	0.108	2	24	5238	3	KED
	Zn	**66**	**281.671**	ug/L	1.980	0	40	108232	0	KED
	Zn	**67**	**255.077**	ug/L	1.242	0	3	16737	0	KED
	As	**75**	**0.097**	ug/L	0.016	16	5	24	12	KED
	Y	**89**		ug/L			208501	205690	8	Standard
	Kr	**83**		ug/L			52	57	12	Standard
>	**In-1**	**115**		ug/L			6222	6083	1	KED
	Cd	**111**	**1.673**	ug/L	0.043	2	2	370	1	KED
	Cd	**114**	**1.728**	ug/L	0.037	2	6	931	2	KED
>	**Tb**	**159**		ug/L			498579	480759	10	Standard
	Pb	**208**	**0.293**	ug/L	0.022	7	109	11740	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, January 09, 2023 23:36:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31900	2	Standard
	Cl	**37**		ug/L			3416101	3492233	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	409879	1	Standard
|	**Cr**	**52**	**0.053**	ug/L	0.038	71	16425	16528	2	Standard
|	**Cr**	**53**	**0.005**	ug/L	0.004	69	102	107	8	Standard
⌊	**Mn**	**55**	**0.007**	ug/L	0.001	11	567	697	4	Standard
⌈>	**Ge**	**72**		ug/L			22652	20922	2	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.001	16	20	10	10	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.006	141	7	6	17	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	29	30	38	10	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.003	57	24	14	32	KED
|	**Zn**	**66**	**0.017**	ug/L	0.016	95	40	43	15	KED
|	**Zn**	**67**	**0.065**	ug/L	0.033	50	3	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.003	408	5	5	9	KED
	Y	**89**		ug/L			208501	203292	1	Standard
	Kr	**83**		ug/L			52	36	7	Standard
⌈>	**In-1**	**115**		ug/L			6222	5742	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.005	228	2	2	43	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.002	26	6	2	42	KED
⌈>	**Tb**	**159**		ug/L			498579	472001	3	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	23	109	206	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Monday, January 09, 2023 23:40:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32649	1	Standard
	Cl	**37**		ug/L			3416101	3253034	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	425265	2	Standard
|	**Cr**	**52**	**1.020**	ug/L	0.057	5	16425	33527	0	Standard
|	**Cr**	**53**	**1.047**	ug/L	0.050	4	102	2168	2	Standard
⌊	**Mn**	**55**	**16.483**	ug/L	0.400	2	567	404781	0	Standard
⌈>	**Ge**	**72**		ug/L			22652	21135	2	KED
|	**Ni**	**60**	**1.249**	ug/L	0.076	6	20	1198	6	KED
|	**Ni**	**62**	**1.369**	ug/L	0.016	1	7	219	3	KED
|	**Cu**	**63**	**2.217**	ug/L	0.146	6	30	6266	5	KED
|	**Cu**	**65**	**2.332**	ug/L	0.053	2	24	3263	2	KED
|	**Zn**	**66**	**8.665**	ug/L	0.286	3	40	3270	1	KED
|	**Zn**	**67**	**9.194**	ug/L	0.677	7	3	589	5	KED
⌊	**As**	**75**	**0.351**	ug/L	0.048	13	5	71	12	KED
	Y	**89**		ug/L			208501	227322	2	Standard
	Kr	**83**		ug/L			52	49	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5764	2	KED
|	**Cd**	**111**	**0.020**	ug/L	0.013	65	2	6	45	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.005	65	6	9	21	KED
⌈>	**Tb**	**159**		ug/L			498579	479840	4	Standard
⌊	**Pb**	**208**	**1.033**	ug/L	0.041	3	109	41262	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0188-20
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:44:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35033	0	Standard
	Cl	**37**		ug/L			3416101	3290985	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460960	3	Standard
|	**Cr**	**52**	**4.655**	ug/L	0.147	3	16425	103020	1	Standard
|	**Cr**	**53**	**4.734**	ug/L	0.129	2	102	10245	2	Standard
⌊	**Mn**	**55**	**73.655**	ug/L	1.474	2	567	1958308	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21056	0	KED
|	**Ni**	**60**	**6.295**	ug/L	0.208	3	20	5940	3	KED
|	**Ni**	**62**	**6.385**	ug/L	0.212	3	7	991	3	KED
|	**Cu**	**63**	**10.561**	ug/L	0.269	2	30	29640	2	KED
|	**Cu**	**65**	**10.862**	ug/L	0.403	3	24	15061	3	KED
|	**Zn**	**66**	**41.147**	ug/L	0.658	1	40	15339	1	KED
|	**Zn**	**67**	**39.417**	ug/L	0.431	1	3	2506	0	KED
⌊	**As**	**75**	**1.738**	ug/L	0.078	4	5	331	4	KED
	Y	**89**		ug/L			208501	316930	2	Standard
	Kr	**83**		ug/L			52	67	11	Standard
⌈>	**In-1**	**115**		ug/L			6222	5954	1	KED
|	**Cd**	**111**	**0.076**	ug/L	0.008	10	2	18	7	KED
⌊	**Cd**	**114**	**0.036**	ug/L	0.018	49	6	25	37	KED
⌈>	**Tb**	**159**		ug/L			498579	497293	3	Standard
⌊	**Pb**	**208**	**4.808**	ug/L	0.170	3	109	198630	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:49:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	35797	1	Standard
	Cl	37		ug/L			3416101	3347294	0	Standard
⌈>	Sc	45		ug/L			429622	459784	2	Standard
|	Cr	52	4.687	ug/L	0.074	1	16425	103402	1	Standard
|	Cr	53	4.694	ug/L	0.242	5	102	10129	2	Standard
⌊	Mn	55	67.591	ug/L	1.759	2	567	1792809	1	Standard
⌈>	Ge	72		ug/L			22652	20840	1	KED
|	Ni	60	5.902	ug/L	0.233	3	20	5511	2	KED
|	Ni	62	5.724	ug/L	0.104	1	7	880	0	KED
|	Cu	63	9.320	ug/L	0.277	2	30	25885	1	KED
|	Cu	65	9.390	ug/L	0.165	1	24	12890	2	KED
|	Zn	66	34.822	ug/L	0.615	1	40	12851	0	KED
|	Zn	67	33.653	ug/L	1.167	3	3	2118	2	KED
⌊	As	75	1.178	ug/L	0.060	5	5	224	3	KED
	Y	89		ug/L			208501	306749	1	Standard
	Kr	83		ug/L			52	53	8	Standard
⌈>	In-1	115		ug/L			6222	5876	1	KED
|	Cd	111	0.060	ug/L	0.030	49	2	14	43	KED
⌊	Cd	114	0.048	ug/L	0.003	5	6	31	3	KED
⌈>	Tb	159		ug/L			498579	496358	3	Standard
⌊	Pb	208	4.089	ug/L	0.201	4	109	168581	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:53:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	32912	0	Standard
	Cl	**37**		ug/L			3416101	3334208	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	460075	0	Standard
|	**Cr**	**52**	**14.502**	ug/L	0.227	1	16425	283308	0	Standard
|	**Cr**	**53**	**14.394**	ug/L	0.123	0	102	30880	0	Standard
⌊	**Mn**	**55**	**85.617**	ug/L	0.808	0	567	2272998	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22261	0	KED
|	**Ni**	**60**	**17.596**	ug/L	0.226	1	20	17518	1	KED
|	**Ni**	**62**	**17.788**	ug/L	0.481	2	7	2907	2	KED
|	**Cu**	**63**	**23.105**	ug/L	0.450	1	30	68515	1	KED
|	**Cu**	**65**	**23.387**	ug/L	0.390	1	24	34259	1	KED
|	**Zn**	**66**	**73.872**	ug/L	0.615	0	40	29080	0	KED
|	**Zn**	**67**	**68.976**	ug/L	2.399	3	3	4634	2	KED
⌊	**As**	**75**	**10.929**	ug/L	0.298	2	5	2173	2	KED
	Y	**89**		ug/L			208501	321571	0	Standard
	Kr	**83**		ug/L			52	80	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6050	2	KED
|	**Cd**	**111**	**10.585**	ug/L	0.306	2	2	2321	0	KED
⌊	**Cd**	**114**	**10.567**	ug/L	0.408	3	6	5630	2	KED
⌈>	**Tb**	**159**		ug/L			498579	489777	2	Standard
⌊	**Pb**	**208**	**16.220**	ug/L	0.252	1	109	660173	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Monday, January 09, 2023 23:58:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	36814	1	Standard
	Cl	37		ug/L			3416101	3384829	2	Standard
>	Sc	45		ug/L			429622	485303	2	Standard
	Cr	52	15.001	ug/L	0.399	2	16425	308396	0	Standard
	Cr	53	15.038	ug/L	0.548	3	102	34013	1	Standard
	Mn	55	85.300	ug/L	2.050	2	567	2387898	0	Standard
>	Ge	72		ug/L			22652	20951	1	KED
	Ni	60	17.724	ug/L	0.140	0	20	16607	1	KED
	Ni	62	17.576	ug/L	0.488	2	7	2704	3	KED
	Cu	63	21.632	ug/L	0.349	1	30	60372	1	KED
	Cu	65	21.864	ug/L	0.938	4	24	30129	2	KED
	Zn	66	93.011	ug/L	0.536	0	40	34452	1	KED
	Zn	67	87.834	ug/L	1.832	2	3	5552	0	KED
	As	75	10.987	ug/L	0.175	1	5	2056	2	KED
	Y	89		ug/L			208501	341865	2	Standard
	Kr	83		ug/L			52	95	14	Standard
>	In-1	115		ug/L			6222	5681	1	KED
	Cd	111	10.926	ug/L	0.240	2	2	2250	1	KED
	Cd	114	10.884	ug/L	0.257	2	6	5447	1	KED
>	Tb	159		ug/L			498579	513014	3	Standard
	Pb	208	15.431	ug/L	0.552	3	109	657413	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:02:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	34964	3	Standard
	Cl	**37**		ug/L			3416101	3410599	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	471137	4	Standard
|	**Cr**	**52**	**28.571**	ug/L	0.438	1	16425	553986	3	Standard
|	**Cr**	**53**	**28.824**	ug/L	0.722	2	102	63172	2	Standard
⌊	**Mn**	**55**	**98.487**	ug/L	1.472	1	567	2676206	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	22225	0	KED
|	**Ni**	**60**	**33.168**	ug/L	0.412	1	20	32952	1	KED
|	**Ni**	**62**	**32.724**	ug/L	0.076	0	7	5334	1	KED
|	**Cu**	**63**	**37.813**	ug/L	0.889	2	30	111950	2	KED
|	**Cu**	**65**	**37.570**	ug/L	0.919	2	24	54941	3	KED
|	**Zn**	**66**	**127.206**	ug/L	0.351	0	40	49970	1	KED
|	**Zn**	**67**	**116.589**	ug/L	2.888	2	3	7819	2	KED
⌊	**As**	**75**	**27.269**	ug/L	0.153	0	5	5406	0	KED
	Y	**89**		ug/L			208501	328580	2	Standard
	Kr	**83**		ug/L			52	61	34	Standard
⌈>	**In-1**	**115**		ug/L			6222	6056	0	KED
|	**Cd**	**111**	**26.468**	ug/L	0.294	1	2	5809	1	KED
⌊	**Cd**	**114**	**26.604**	ug/L	0.576	2	6	14186	2	KED
⌈>	**Tb**	**159**		ug/L			498579	500325	5	Standard
⌊	**Pb**	**208**	**32.342**	ug/L	1.456	4	109	1342547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0080-SRM2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:06:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	35447	1	Standard
	Cl	**37**		ug/L			3416101	3348515	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	447131	1	Standard
|	**Cr**	**52**	**49.665**	ug/L	0.304	0	16425	901623	1	Standard
|	**Cr**	**53**	**50.854**	ug/L	0.480	0	102	105764	0	Standard
⌊	**Mn**	**55**	**121.689**	ug/L	1.435	1	567	3139587	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21066	1	KED
|	**Ni**	**60**	**80.835**	ug/L	2.018	2	20	76082	1	KED
|	**Ni**	**62**	**79.740**	ug/L	1.739	2	7	12310	2	KED
|	**Cu**	**63**	**33.104**	ug/L	0.818	2	30	92880	2	KED
|	**Cu**	**65**	**32.435**	ug/L	0.364	1	24	44951	1	KED
|	**Zn**	**66**	**37.528**	ug/L	0.917	2	40	13996	1	KED
|	**Zn**	**67**	**40.835**	ug/L	0.481	1	3	2598	2	KED
⌊	**As**	**75**	**19.282**	ug/L	0.217	1	5	3625	1	KED
	Y	**89**		ug/L			208501	277281	0	Standard
	Kr	**83**		ug/L			52	57	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5979	0	KED
|	**Cd**	**111**	**36.909**	ug/L	0.575	1	2	7996	1	KED
⌊	**Cd**	**114**	**37.227**	ug/L	0.378	1	6	19594	0	KED
⌈>	**Tb**	**159**		ug/L			498579	510486	3	Standard
⌊	**Pb**	**208**	**62.318**	ug/L	2.363	3	109	2641194	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:11:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	33038	2	Standard
	Cl	**37**		ug/L			3416101	3265330	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	418822	1	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.019	282	16425	15899	2	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.003	170	102	96	4	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.001	12	567	740	4	Standard
⌈>	**Ge**	**72**		ug/L			22652	21130	3	KED
|	**Ni**	**60**	**-0.011**	ug/L	0.003	29	20	8	35	KED
|	**Ni**	**62**	**-0.025**	ug/L	0.007	26	7	3	34	KED
|	**Cu**	**63**	**0.009**	ug/L	0.003	27	30	53	11	KED
|	**Cu**	**65**	**0.006**	ug/L	0.004	70	24	30	21	KED
|	**Zn**	**66**	**0.020**	ug/L	0.019	95	40	45	12	KED
|	**Zn**	**67**	**0.015**	ug/L	0.077	501	3	4	107	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.014	1141	5	5	48	KED
	Y	**89**		ug/L			208501	206765	1	Standard
	Kr	**83**		ug/L			52	49	19	Standard
⌈>	**In-1**	**115**		ug/L			6222	5914	1	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	507	2	1	50	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	70	6	3	57	KED
⌈>	**Tb**	**159**		ug/L			498579	474330	3	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	13	109	322	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:15:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31549	0	Standard
	Cl	**37**		ug/L			3416101	3523562	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	415244	3	Standard
|	**Cr**	**52**	**50.902**	ug/L	0.792	1	16425	857459	2	Standard
|	**Cr**	**53**	**50.076**	ug/L	1.593	3	102	96651	1	Standard
⌊	**Mn**	**55**	**51.084**	ug/L	0.995	1	567	1223740	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21010	2	KED
|	**Ni**	**60**	**50.376**	ug/L	1.711	3	20	47281	2	KED
|	**Ni**	**62**	**51.105**	ug/L	2.184	4	7	7866	2	KED
|	**Cu**	**63**	**49.628**	ug/L	1.217	2	30	138831	1	KED
|	**Cu**	**65**	**49.448**	ug/L	0.855	1	24	68323	1	KED
|	**Zn**	**66**	**51.617**	ug/L	1.455	2	40	19182	1	KED
|	**Zn**	**67**	**49.608**	ug/L	0.941	1	3	3146	1	KED
⌊	**As**	**75**	**49.810**	ug/L	1.132	2	5	9328	1	KED
	Y	**89**		ug/L			208501	208760	2	Standard
	Kr	**83**		ug/L			52	55	24	Standard
⌈>	**In-1**	**115**		ug/L			6222	5663	0	KED
|	**Cd**	**111**	**50.579**	ug/L	1.079	2	2	10380	2	KED
⌊	**Cd**	**114**	**51.126**	ug/L	0.563	1	6	25490	1	KED
⌈>	**Tb**	**159**		ug/L			498579	480987	4	Standard
⌊	**Pb**	**208**	**52.441**	ug/L	1.187	2	109	2094890	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:22:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	29608	2	Standard
	Cl	**37**		ug/L			3416101	3285009	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	397909	0	Standard
|	**Cr**	**52**	**-0.002**	ug/L	0.018	788	16425	15176	1	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.003	36	102	80	6	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	126	567	501	6	Standard
⌈>	**Ge**	**72**		ug/L			22652	20223	3	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.001	13	20	10	10	KED
|	**Ni**	**62**	**-0.012**	ug/L	0.019	155	7	5	57	KED
|	**Cu**	**63**	**0.000**	ug/L	0.003	1022	30	27	27	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.007	172	24	16	53	KED
|	**Zn**	**66**	**-0.023**	ug/L	0.010	41	40	27	10	KED
|	**Zn**	**67**	**0.018**	ug/L	0.021	117	3	4	24	KED
⌊	**As**	**75**	**0.002**	ug/L	0.020	815	5	5	62	KED
	Y	**89**		ug/L			208501	194885	0	Standard
	Kr	**83**		ug/L			52	38	15	Standard
⌈>	**In-1**	**115**		ug/L			6222	5602	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.007	265	2	2	57	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.002	22	6	1	86	KED
⌈>	**Tb**	**159**		ug/L			498579	452147	3	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	111	109	111	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-SRL2
Sample Dil Factor: 250
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:26:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	34922	4	Standard
	Cl	**37**		ug/L			3416101	3348788	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	449099	0	Standard
|	**Cr**	**52**	**1.330**	ug/L	0.039	2	16425	40962	2	Standard
|	**Cr**	**53**	**1.358**	ug/L	0.030	2	102	2940	1	Standard
⌊	**Mn**	**55**	**29.261**	ug/L	0.539	1	567	758777	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	20964	1	KED
|	**Ni**	**60**	**1.621**	ug/L	0.083	5	20	1536	4	KED
|	**Ni**	**62**	**1.623**	ug/L	0.156	9	7	256	10	KED
|	**Cu**	**63**	**2.921**	ug/L	0.066	2	30	8182	1	KED
|	**Cu**	**65**	**3.025**	ug/L	0.092	3	24	4192	2	KED
|	**Zn**	**66**	**12.272**	ug/L	0.389	3	40	4581	3	KED
|	**Zn**	**67**	**12.200**	ug/L	1.184	9	3	774	8	KED
⌊	**As**	**75**	**0.295**	ug/L	0.013	4	5	60	4	KED
	Y	**89**		ug/L			208501	243670	1	Standard
	Kr	**83**		ug/L			52	61	6	Standard
⌈>	**In-1**	**115**		ug/L			6222	5749	3	KED
|	**Cd**	**111**	**0.030**	ug/L	0.013	44	2	8	35	KED
⌊	**Cd**	**114**	**0.035**	ug/L	0.006	16	6	23	12	KED
⌈>	**Tb**	**159**		ug/L			498579	500269	4	Standard
⌊	**Pb**	**208**	**1.550**	ug/L	0.043	2	109	64498	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22J0097-31
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:31:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39535	2	Standard
	Cl	**37**		ug/L			3416101	3356703	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	479478	1	Standard
|	**Cr**	**52**	**5.988**	ug/L	0.067	1	16425	132683	1	Standard
|	**Cr**	**53**	**6.005**	ug/L	0.103	1	102	13494	2	Standard
⌊	**Mn**	**55**	**126.181**	ug/L	2.053	1	567	3491219	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	20909	2	KED
|	**Ni**	**60**	**8.197**	ug/L	0.089	1	20	7674	1	KED
|	**Ni**	**62**	**8.210**	ug/L	0.344	4	7	1263	1	KED
|	**Cu**	**63**	**14.457**	ug/L	0.350	2	30	40263	0	KED
|	**Cu**	**65**	**14.441**	ug/L	0.055	0	24	19879	2	KED
|	**Zn**	**66**	**59.092**	ug/L	2.281	3	40	21843	1	KED
|	**Zn**	**67**	**55.515**	ug/L	1.719	3	3	3504	3	KED
⌊	**As**	**75**	**1.308**	ug/L	0.060	4	5	249	4	KED
	Y	**89**		ug/L			208501	322274	2	Standard
	Kr	**83**		ug/L			52	73	10	Standard
⌈>	**In-1**	**115**		ug/L			6222	5662	1	KED
|	**Cd**	**111**	**0.148**	ug/L	0.014	9	2	32	10	KED
⌊	**Cd**	**114**	**0.138**	ug/L	0.041	29	6	74	25	KED
⌈>	**Tb**	**159**		ug/L			498579	494083	4	Standard
⌊	**Pb**	**208**	**7.331**	ug/L	0.314	4	109	300671	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:35:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	41675	2	Standard
	Cl	**37**		ug/L			3416101	3408444	0	Standard
⌈>	**Sc**	**45**		ug/L			429622	483118	3	Standard
|	**Cr**	**52**	**6.064**	ug/L	0.060	0	16425	135147	2	Standard
|	**Cr**	**53**	**6.182**	ug/L	0.042	0	102	13992	3	Standard
⌊	**Mn**	**55**	**134.781**	ug/L	1.835	1	567	3756019	2	Standard
⌈>	**Ge**	**72**		ug/L			22652	21760	0	KED
|	**Ni**	**60**	**7.953**	ug/L	0.084	1	20	7751	1	KED
|	**Ni**	**62**	**7.725**	ug/L	0.349	4	7	1238	4	KED
|	**Cu**	**63**	**14.760**	ug/L	0.041	0	30	42799	0	KED
|	**Cu**	**65**	**15.084**	ug/L	0.311	2	24	21608	2	KED
|	**Zn**	**66**	**60.944**	ug/L	1.187	1	40	23461	2	KED
|	**Zn**	**67**	**59.377**	ug/L	1.213	2	3	3900	2	KED
⌊	**As**	**75**	**1.547**	ug/L	0.061	3	5	305	4	KED
	Y	**89**		ug/L			208501	332178	3	Standard
	Kr	**83**		ug/L			52	74	12	Standard
⌈>	**In-1**	**115**		ug/L			6222	6094	2	KED
|	**Cd**	**111**	**0.128**	ug/L	0.010	7	2	30	9	KED
⌊	**Cd**	**114**	**0.127**	ug/L	0.011	8	6	75	5	KED
⌈>	**Tb**	**159**		ug/L			498579	502605	2	Standard
⌊	**Pb**	**208**	**7.113**	ug/L	0.179	2	109	297064	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:40:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	40716	1	Standard
	Cl	**37**		ug/L			3416101	3511424	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	504591	1	Standard
|	**Cr**	**52**	**16.094**	ug/L	0.104	0	16425	342721	1	Standard
|	**Cr**	**53**	**16.277**	ug/L	0.403	2	102	38275	1	Standard
⌊	**Mn**	**55**	**135.860**	ug/L	2.804	2	567	3954824	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	22057	0	KED
|	**Ni**	**60**	**18.688**	ug/L	0.479	2	20	18433	2	KED
|	**Ni**	**62**	**18.273**	ug/L	0.076	0	7	2959	0	KED
|	**Cu**	**63**	**24.922**	ug/L	0.315	1	30	73229	1	KED
|	**Cu**	**65**	**25.258**	ug/L	0.179	0	24	36659	0	KED
|	**Zn**	**66**	**90.053**	ug/L	0.819	0	40	35118	0	KED
|	**Zn**	**67**	**83.877**	ug/L	2.281	2	3	5583	2	KED
⌊	**As**	**75**	**11.217**	ug/L	0.121	1	5	2210	0	KED
	Y	**89**		ug/L			208501	349782	1	Standard
	Kr	**83**		ug/L			52	86	5	Standard
⌈>	**In-1**	**115**		ug/L			6222	5892	0	KED
|	**Cd**	**111**	**10.592**	ug/L	0.146	1	2	2263	0	KED
⌊	**Cd**	**114**	**10.765**	ug/L	0.086	0	6	5588	1	KED
⌈>	**Tb**	**159**		ug/L			498579	515423	4	Standard
⌊	**Pb**	**208**	**17.577**	ug/L	0.477	2	109	752437	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:44:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39126	3	Standard
	Cl	**37**		ug/L			3416101	3486444	1	Standard
⌈>	**Sc**	**45**		ug/L			429622	482324	2	Standard
|	**Cr**	**52**	**15.556**	ug/L	0.284	1	16425	317229	2	Standard
|	**Cr**	**53**	**15.536**	ug/L	0.343	2	102	34926	1	Standard
⌊	**Mn**	**55**	**134.850**	ug/L	1.275	0	567	3753412	3	Standard
⌈>	**Ge**	**72**		ug/L			22652	21584	3	KED
|	**Ni**	**60**	**18.719**	ug/L	1.065	5	20	18043	2	KED
|	**Ni**	**62**	**18.213**	ug/L	0.565	3	7	2884	1	KED
|	**Cu**	**63**	**23.531**	ug/L	1.141	4	30	67586	1	KED
|	**Cu**	**65**	**23.837**	ug/L	0.672	2	24	33833	0	KED
|	**Zn**	**66**	**86.113**	ug/L	1.343	1	40	32852	2	KED
|	**Zn**	**67**	**82.952**	ug/L	3.165	3	3	5399	0	KED
⌊	**As**	**75**	**10.761**	ug/L	0.444	4	5	2073	0	KED
	Y	**89**		ug/L			208501	330446	2	Standard
	Kr	**83**		ug/L			52	88	25	Standard
⌈>	**In-1**	**115**		ug/L			6222	5946	3	KED
|	**Cd**	**111**	**10.366**	ug/L	0.442	4	2	2232	0	KED
⌊	**Cd**	**114**	**10.383**	ug/L	0.401	3	6	5435	0	KED
⌈>	**Tb**	**159**		ug/L			498579	498626	5	Standard
⌊	**Pb**	**208**	**17.243**	ug/L	0.649	3	109	713675	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0683-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:48:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	39631	1	Standard
	Cl	**37**		ug/L			3416101	3480784	2	Standard
⌈>	**Sc**	**45**		ug/L			429622	475060	3	Standard
|	**Cr**	**52**	**29.015**	ug/L	0.275	0	16425	567116	2	Standard
|	**Cr**	**53**	**29.339**	ug/L	0.944	3	102	64838	0	Standard
⌊	**Mn**	**55**	**148.145**	ug/L	2.566	1	567	4059387	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21218	3	KED
|	**Ni**	**60**	**34.525**	ug/L	2.219	6	20	32700	3	KED
|	**Ni**	**62**	**33.620**	ug/L	2.261	6	7	5224	3	KED
|	**Cu**	**63**	**40.486**	ug/L	0.677	1	30	114374	2	KED
|	**Cu**	**65**	**40.412**	ug/L	1.213	3	24	56368	1	KED
|	**Zn**	**66**	**140.509**	ug/L	5.328	3	40	52641	0	KED
|	**Zn**	**67**	**127.382**	ug/L	4.135	3	3	8149	0	KED
⌊	**As**	**75**	**26.881**	ug/L	0.424	1	5	5086	2	KED
	Y	**89**		ug/L			208501	323490	1	Standard
	Kr	**83**		ug/L			52	71	14	Standard
⌈>	**In-1**	**115**		ug/L			6222	5889	1	KED
|	**Cd**	**111**	**26.119**	ug/L	0.324	1	2	5574	1	KED
⌊	**Cd**	**114**	**25.931**	ug/L	0.461	1	6	13443	0	KED
⌈>	**Tb**	**159**		ug/L			498579	489147	3	Standard
⌊	**Pb**	**208**	**34.790**	ug/L	1.298	3	109	1413058	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:53:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46647	1	Standard
	Cl	37		ug/L			3416101	3405859	0	Standard
>	Sc	45		ug/L			429622	594943	1	Standard
	Cr	52	15.424	ug/L	0.093	0	16425	388245	1	Standard
	Cr	53	15.517	ug/L	0.102	0	102	43042	1	Standard
	Mn	55	249.521	ug/L	2.460	0	567	8564244	0	Standard
>	Ge	72		ug/L			22652	21286	3	KED
	Ni	60	18.460	ug/L	0.346	1	20	17569	2	KED
	Ni	62	18.434	ug/L	0.495	2	7	2882	5	KED
	Cu	63	24.700	ug/L	0.423	1	30	70032	3	KED
	Cu	65	24.571	ug/L	0.725	2	24	34400	2	KED
	Zn	66	101.763	ug/L	1.283	1	40	38282	2	KED
	Zn	67	101.524	ug/L	3.165	3	3	6525	6	KED
	As	75	2.650	ug/L	0.046	1	5	508	2	KED
	Y	89		ug/L			208501	486889	1	Standard
	Kr	83		ug/L			52	164	14	Standard
>	In-1	115		ug/L			6222	5878	1	KED
	Cd	111	0.097	ug/L	0.012	12	2	22	12	KED
	Cd	114	0.139	ug/L	0.014	9	6	78	7	KED
>	Tb	159		ug/L			498579	522849	3	Standard
	Pb	208	16.496	ug/L	0.527	3	109	716386	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 00:57:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	49707	3	Standard
	Cl	37		ug/L			3416101	3375822	2	Standard
>	Sc	45		ug/L			429622	631410	2	Standard
	Cr	52	16.254	ug/L	0.332	2	16425	432749	0	Standard
	Cr	53	16.355	ug/L	0.094	0	102	48134	2	Standard
	Mn	55	361.561	ug/L	7.156	1	567	13166082	1	Standard
>	Ge	72		ug/L			22652	21940	3	KED
	Ni	60	19.399	ug/L	1.182	6	20	19009	3	KED
	Ni	62	20.068	ug/L	0.721	3	7	3230	0	KED
	Cu	63	36.371	ug/L	1.353	3	30	106211	0	KED
	Cu	65	36.300	ug/L	1.330	3	24	52357	0	KED
	Zn	66	146.723	ug/L	5.535	3	40	56849	1	KED
	Zn	67	147.496	ug/L	5.946	4	3	9758	2	KED
	As	75	3.885	ug/L	0.174	4	5	764	1	KED
	Y	89		ug/L			208501	578449	1	Standard
	Kr	83		ug/L			52	203	4	Standard
>	In-1	115		ug/L			6222	5878	2	KED
	Cd	111	0.286	ug/L	0.048	16	2	62	13	KED
	Cd	114	0.254	ug/L	0.036	14	6	137	11	KED
>	Tb	159		ug/L			498579	511039	3	Standard
	Pb	208	24.627	ug/L	0.893	3	109	1044983	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:01:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28744	46574	0	Standard
	Cl	37		ug/L			3416101	3379169	1	Standard
>	Sc	45		ug/L			429622	620291	2	Standard
	Cr	52	16.437	ug/L	0.163	0	16425	429814	2	Standard
	Cr	53	16.626	ug/L	0.381	2	102	48058	0	Standard
	Mn	55	310.654	ug/L	1.107	0	567	11117349	2	Standard
>	Ge	72		ug/L			22652	20581	1	KED
	Ni	60	18.856	ug/L	0.425	2	20	17354	1	KED
	Ni	62	18.790	ug/L	0.725	3	7	2839	3	KED
	Cu	63	42.128	ug/L	0.806	1	30	115476	1	KED
	Cu	65	43.333	ug/L	0.599	1	24	58666	0	KED
	Zn	66	139.400	ug/L	1.715	1	40	50705	1	KED
	Zn	67	136.427	ug/L	3.426	2	3	8471	1	KED
	As	75	4.058	ug/L	0.128	3	5	749	2	KED
	Y	89		ug/L			208501	559074	0	Standard
	Kr	83		ug/L			52	189	11	Standard
>	In-1	115		ug/L			6222	5607	3	KED
	Cd	111	0.260	ug/L	0.013	5	2	54	7	KED
	Cd	114	0.305	ug/L	0.045	14	6	156	12	KED
>	Tb	159		ug/L			498579	504952	3	Standard
	Pb	208	32.193	ug/L	1.171	3	109	1349703	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-31
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:06:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28744	48674	1	Standard
Cl	37		ug/L			3416101	3409450	1	Standard
Sc	45		ug/L			429622	586958	3	Standard
Cr	52	14.692	ug/L	0.342	2	16425	365754	0	Standard
Cr	53	14.966	ug/L	0.221	1	102	40948	1	Standard
Mn	55	241.038	ug/L	5.247	2	567	8159092	1	Standard
Ge	72		ug/L			22652	21147	1	KED
Ni	60	14.830	ug/L	0.291	1	20	14029	3	KED
Ni	62	15.157	ug/L	0.503	3	7	2355	4	KED
Cu	63	47.502	ug/L	0.903	1	30	133772	1	KED
Cu	65	47.669	ug/L	1.367	2	24	66297	2	KED
Zn	66	146.123	ug/L	4.631	3	40	54602	3	KED
Zn	67	139.180	ug/L	2.017	1	3	8881	2	KED
As	75	3.995	ug/L	0.157	3	5	758	4	KED
Y	89		ug/L			208501	485316	1	Standard
Kr	83		ug/L			52	172	15	Standard
In-1	115		ug/L			6222	5895	2	KED
Cd	111	0.240	ug/L	0.017	7	2	53	4	KED
Cd	114	0.266	ug/L	0.009	3	6	144	2	KED
Tb	159		ug/L			498579	512635	3	Standard
Pb	208	21.533	ug/L	0.668	3	109	916743	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:13:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	30368	2	Standard
	Cl	**37**		ug/L			3416101	3570879	3	Standard
⌈>	**Sc**	**45**		ug/L			429622	419169	3	Standard
|	**Cr**	**52**	**50.270**	ug/L	1.224	2	16425	854922	0	Standard
|	**Cr**	**53**	**50.770**	ug/L	1.391	2	102	98937	0	Standard
⌊	**Mn**	**55**	**50.084**	ug/L	1.680	3	567	1210902	1	Standard
⌈>	**Ge**	**72**		ug/L			22652	21180	2	KED
|	**Ni**	**60**	**51.753**	ug/L	1.036	2	20	48976	1	KED
|	**Ni**	**62**	**51.052**	ug/L	2.579	5	7	7929	6	KED
|	**Cu**	**63**	**50.944**	ug/L	0.989	1	30	143703	2	KED
|	**Cu**	**65**	**51.042**	ug/L	0.865	1	24	71101	1	KED
|	**Zn**	**66**	**51.780**	ug/L	1.563	3	40	19408	4	KED
|	**Zn**	**67**	**50.621**	ug/L	1.036	2	3	3238	4	KED
⌊	**As**	**75**	**50.796**	ug/L	1.125	2	5	9592	3	KED
	Y	**89**		ug/L			208501	202177	1	Standard
	Kr	**83**		ug/L			52	60	3	Standard
⌈>	**In-1**	**115**		ug/L			6222	5749	3	KED
|	**Cd**	**111**	**50.886**	ug/L	1.092	2	2	10596	1	KED
⌊	**Cd**	**114**	**50.648**	ug/L	2.013	3	6	25613	0	KED
⌈>	**Tb**	**159**		ug/L			498579	476193	3	Standard
⌊	**Pb**	**208**	**53.265**	ug/L	1.057	1	109	2106985	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:20:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28744	31339	3	Standard
	Cl	**37**		ug/L			3416101	3285110	0	Standard
⎡>	**Sc**	**45**		ug/L			429622	418292	0	Standard
⎢	**Cr**	**52**	**0.003**	ug/L	0.016	599	16425	16035	0	Standard
⎢	**Cr**	**53**	**-0.010**	ug/L	0.004	37	102	80	9	Standard
⎣	**Mn**	**55**	**0.001**	ug/L	0.001	74	567	580	4	Standard
⎡>	**Ge**	**72**		ug/L			22652	21236	2	KED
⎢	**Ni**	**60**	**-0.003**	ug/L	0.006	182	20	15	38	KED
⎢	**Ni**	**62**	**-0.017**	ug/L	0.018	106	7	4	65	KED
⎢	**Cu**	**63**	**-0.000**	ug/L	0.001	16499	30	28	11	KED
⎢	**Cu**	**65**	**-0.002**	ug/L	0.001	60	24	20	5	KED
⎢	**Zn**	**66**	**-0.021**	ug/L	0.022	107	40	30	28	KED
⎢	**Zn**	**67**	**0.014**	ug/L	0.047	331	3	4	65	KED
⎣	**As**	**75**	**0.004**	ug/L	0.008	242	5	6	27	KED
	Y	**89**		ug/L			208501	206206	1	Standard
	Kr	**83**		ug/L			52	48	18	Standard
⎡>	**In-1**	**115**		ug/L			6222	6125	1	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.006	110	2	3	41	KED
⎣	**Cd**	**114**	**-0.009**	ug/L	0.003	36	6	1	108	KED
⎡>	**Tb**	**159**		ug/L			498579	482087	3	Standard
⎣	**Pb**	**208**	**0.000**	ug/L	0.000	80	109	119	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:24:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				31215	3	Standard
	Cl	**37**		ug/L				3324914	1	Standard
>	**Sc**	**45**		ug/L				423672	1	Standard
	Cr	**52**		ug/L				16311	0	Standard
	Cr	**53**		ug/L				93	12	Standard
	Mn	**55**		ug/L				527	6	Standard
>	**Ge**	**72**		ug/L				20993	1	KED
	Ni	**60**		ug/L				13	55	KED
	Ni	**62**		ug/L				8	13	KED
	Cu	**63**		ug/L				34	20	KED
	Cu	**65**		ug/L				19	33	KED
	Zn	**66**		ug/L				36	29	KED
	Zn	**67**		ug/L				4	24	KED
	As	**75**		ug/L				5	65	KED
	Y	**89**		ug/L				210865	1	Standard
	Kr	**83**		ug/L				43	25	Standard
>	**In-1**	**115**		ug/L				5860	1	KED
	Cd	**111**		ug/L				2	65	KED
	Cd	**114**		ug/L				6	64	KED
>	**Tb**	**159**		ug/L				480478	3	Standard
	Pb	**208**		ug/L				115	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:29:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30410	1	Standard
	Cl	**37**		ug/L			3324914	3533632	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	415267	1	Standard
⎢	**Cr**	**52**	**50.339**	ug/L	0.745	1	16311	848570	2	Standard
⎢	**Cr**	**53**	**50.964**	ug/L	0.136	0	93	98439	2	Standard
⎣	**Mn**	**55**	**51.220**	ug/L	0.873	1	527	1227305	0	Standard
⎡>	**Ge**	**72**		ug/L			20993	20455	1	KED
⎢	**Ni**	**60**	**52.423**	ug/L	1.522	2	13	47904	1	KED
⎢	**Ni**	**62**	**50.669**	ug/L	0.498	0	8	7599	1	KED
⎢	**Cu**	**63**	**50.445**	ug/L	1.112	2	34	137412	1	KED
⎢	**Cu**	**65**	**52.156**	ug/L	0.999	1	19	70164	1	KED
⎢	**Zn**	**66**	**52.910**	ug/L	1.068	2	36	19145	0	KED
⎢	**Zn**	**67**	**50.709**	ug/L	3.410	6	4	3132	6	KED
⎣	**As**	**75**	**51.420**	ug/L	0.890	1	5	9376	0	KED
	Y	**89**		ug/L			210865	201534	0	Standard
	Kr	**83**		ug/L			43	54	27	Standard
⎡>	**In-1**	**115**		ug/L			5860	5660	2	KED
⎢	**Cd**	**111**	**51.014**	ug/L	1.517	2	2	10458	1	KED
⎣	**Cd**	**114**	**51.849**	ug/L	2.429	4	6	25813	2	KED
⎡>	**Tb**	**159**		ug/L			480478	479037	3	Standard
⎣	**Pb**	**208**	**53.159**	ug/L	1.813	3	115	2114474	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:36:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31165	2	Standard
	Cl	**37**		ug/L			3324914	3329784	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	426875	1	Standard
|	**Cr**	**52**	**-0.005**	ug/L	0.012	246	16311	16356	2	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.004	173	93	89	8	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.002	284	527	544	6	Standard
⌈>	**Ge**	**72**		ug/L			20993	20742	3	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.004	217	13	12	36	KED
|	**Ni**	**62**	**-0.037**	ug/L	0.007	17	8	2	43	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.006	299	34	28	52	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	200	19	17	29	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.025	715	36	34	24	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.002	19	4	3	0	KED
⌊	**As**	**75**	**0.000**	ug/L	0.006	2281	5	5	22	KED
	Y	**89**		ug/L			210865	208508	2	Standard
	Kr	**83**		ug/L			43	39	12	Standard
⌈>	**In-1**	**115**		ug/L			5860	5855	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.000	1	2	0		KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.004	58	6	2	90	KED
⌈>	**Tb**	**159**		ug/L			480478	486295	4	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	79	115	144	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-32
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:40:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	47430	1	Standard
	Cl	37		ug/L			3324914	3368037	1	Standard
>	Sc	45		ug/L			423672	601779	0	Standard
	Cr	52	16.522	ug/L	0.372	2	16311	419148	1	Standard
	Cr	53	16.646	ug/L	0.181	1	93	46679	0	Standard
	Mn	55	327.325	ug/L	7.378	2	527	11363166	1	Standard
>	Ge	72		ug/L			20993	21197	3	KED
	Ni	60	16.507	ug/L	0.507	3	13	15641	3	KED
	Ni	62	16.177	ug/L	0.634	3	8	2518	1	KED
	Cu	63	51.946	ug/L	1.767	3	34	146561	0	KED
	Cu	65	52.307	ug/L	2.288	4	19	72866	1	KED
	Zn	66	195.429	ug/L	7.415	3	36	73139	0	KED
	Zn	67	181.352	ug/L	1.323	0	4	11598	2	KED
	As	75	8.616	ug/L	0.464	5	5	1631	2	KED
	Y	89		ug/L			210865	532450	2	Standard
	Kr	83		ug/L			43	184	6	Standard
>	In-1	115		ug/L			5860	5959	1	KED
	Cd	111	0.320	ug/L	0.013	3	2	71	3	KED
	Cd	114	0.335	ug/L	0.034	10	6	182	11	KED
>	Tb	159		ug/L			480478	513542	3	Standard
	Pb	208	31.833	ug/L	1.256	3	115	1357412	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-33
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:45:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	46760	2	Standard
	Cl	37		ug/L			3324914	3370349	2	Standard
>	Sc	45		ug/L			423672	616916	7	Standard
	Cr	52	18.433	ug/L	0.905	4	16311	475752	4	Standard
	Cr	53	18.375	ug/L	0.837	4	93	52704	3	Standard
	Mn	55	328.329	ug/L	21.549	6	527	11648759	0	Standard
>	Ge	72		ug/L			20993	21133	1	KED
	Ni	60	17.603	ug/L	0.206	1	13	16631	0	KED
	Ni	62	17.939	ug/L	0.688	3	8	2784	2	KED
	Cu	63	39.902	ug/L	0.541	1	34	112315	1	KED
	Cu	65	41.396	ug/L	1.102	2	19	57544	2	KED
	Zn	66	129.299	ug/L	0.136	0	36	48294	1	KED
	Zn	67	135.131	ug/L	3.443	2	4	8617	2	KED
	As	75	4.152	ug/L	0.070	1	5	787	2	KED
	Y	89		ug/L			210865	562736	4	Standard
	Kr	83		ug/L			43	194	3	Standard
>	In-1	115		ug/L			5860	5645	2	KED
	Cd	111	0.253	ug/L	0.012	4	2	53	5	KED
	Cd	114	0.258	ug/L	0.028	10	6	134	11	KED
>	Tb	159		ug/L			480478	509158	8	Standard
	Pb	208	26.696	ug/L	1.971	7	115	1125158	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-34
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:49:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	53033	2	Standard
	Cl	37		ug/L			3324914	3435881	2	Standard
>	Sc	45		ug/L			423672	639136	2	Standard
	Cr	52	15.610	ug/L	0.268	1	16311	421929	1	Standard
	Cr	53	15.992	ug/L	0.334	2	93	47629	2	Standard
	Mn	55	366.184	ug/L	3.439	0	527	13500947	1	Standard
>	Ge	72		ug/L			20993	20959	1	KED
	Ni	60	19.547	ug/L	0.592	3	13	18311	1	KED
	Ni	62	18.803	ug/L	0.613	3	8	2894	2	KED
	Cu	63	33.498	ug/L	0.229	0	34	93520	0	KED
	Cu	65	34.601	ug/L	0.928	2	19	47696	1	KED
	Zn	66	135.814	ug/L	2.312	1	36	50306	2	KED
	Zn	67	129.502	ug/L	4.251	3	4	8192	4	KED
	As	75	3.670	ug/L	0.067	1	5	690	0	KED
	Y	89		ug/L			210865	586010	1	Standard
	Kr	83		ug/L			43	198	7	Standard
>	In-1	115		ug/L			5860	5826	3	KED
	Cd	111	0.237	ug/L	0.042	17	2	52	13	KED
	Cd	114	0.226	ug/L	0.040	17	6	122	16	KED
>	Tb	159		ug/L			480478	509025	4	Standard
	Pb	208	22.278	ug/L	0.970	4	115	941331	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-35
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:53:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	53495	1	Standard
Cl	37		ug/L			3324914	3442905	3	Standard
> Sc	45		ug/L			423672	649120	1	Standard
Cr	52	16.129	ug/L	0.165	1	16311	441961	0	Standard
Cr	53	16.446	ug/L	0.311	1	93	49740	0	Standard
Mn	55	352.484	ug/L	7.758	2	527	13197249	0	Standard
> Ge	72		ug/L			20993	21571	0	KED
Ni	60	19.398	ug/L	0.279	1	13	18708	1	KED
Ni	62	19.245	ug/L	1.152	5	8	3049	5	KED
Cu	63	33.397	ug/L	0.874	2	34	95960	2	KED
Cu	65	34.057	ug/L	0.866	2	19	48327	2	KED
Zn	66	119.194	ug/L	1.225	1	36	45446	1	KED
Zn	67	115.284	ug/L	4.312	3	4	7506	4	KED
As	75	3.665	ug/L	0.052	1	5	710	1	KED
Y	89		ug/L			210865	596151	1	Standard
Kr	83		ug/L			43	217	4	Standard
> In-1	115		ug/L			5860	5762	3	KED
Cd	111	0.243	ug/L	0.016	6	2	53	7	KED
Cd	114	0.257	ug/L	0.014	5	6	136	2	KED
> Tb	159		ug/L			480478	512855	1	Standard
Pb	208	23.389	ug/L	0.661	2	115	996579	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-36
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 01:58:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	51564	1	Standard
	Cl	37		ug/L			3324914	3466463	0	Standard
>	Sc	45		ug/L			423672	618270	1	Standard
	Cr	52	15.229	ug/L	0.337	2	16311	398784	1	Standard
	Cr	53	15.418	ug/L	0.190	1	93	44429	0	Standard
	Mn	55	235.788	ug/L	5.491	2	527	8409526	1	Standard
>	Ge	72		ug/L			20993	20958	0	KED
	Ni	60	22.558	ug/L	0.091	0	13	21134	0	KED
	Ni	62	21.853	ug/L	0.428	1	8	3362	1	KED
	Cu	63	27.442	ug/L	0.702	2	34	76617	2	KED
	Cu	65	28.159	ug/L	0.302	1	19	38827	0	KED
	Zn	66	103.456	ug/L	2.217	2	36	38326	1	KED
	Zn	67	102.675	ug/L	1.600	1	4	6494	1	KED
	As	75	2.435	ug/L	0.090	3	5	460	3	KED
	Y	89		ug/L			210865	490363	1	Standard
	Kr	83		ug/L			43	172	18	Standard
>	In-1	115		ug/L			5860	5712	2	KED
	Cd	111	0.113	ug/L	0.040	35	2	25	33	KED
	Cd	114	0.114	ug/L	0.007	6	6	63	7	KED
>	Tb	159		ug/L			480478	520040	1	Standard
	Pb	208	15.939	ug/L	0.349	2	115	688799	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-38
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:02:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	56130	2	Standard
	Cl	37		ug/L			3324914	3449843	1	Standard
>	Sc	45		ug/L			423672	655524	3	Standard
	Cr	52	15.694	ug/L	0.226	1	16311	434877	2	Standard
	Cr	53	15.833	ug/L	0.337	2	93	48350	1	Standard
	Mn	55	251.145	ug/L	6.787	2	527	9492078	0	Standard
>	Ge	72		ug/L			20993	22152	2	KED
	Ni	60	21.680	ug/L	0.609	2	13	21461	1	KED
	Ni	62	21.291	ug/L	0.602	2	8	3462	2	KED
	Cu	63	24.189	ug/L	0.437	1	34	71367	0	KED
	Cu	65	24.245	ug/L	0.176	0	19	35335	1	KED
	Zn	66	49.693	ug/L	1.295	2	36	19470	0	KED
	Zn	67	56.025	ug/L	2.006	3	4	3745	1	KED
	As	75	2.313	ug/L	0.089	3	5	462	1	KED
	Y	89		ug/L			210865	583850	0	Standard
	Kr	83		ug/L			43	213	12	Standard
>	In-1	115		ug/L			5860	5981	1	KED
	Cd	111	0.069	ug/L	0.010	14	2	17	11	KED
	Cd	114	0.056	ug/L	0.020	36	6	35	28	KED
>	Tb	159		ug/L			480478	530328	2	Standard
	Pb	208	4.009	ug/L	0.093	2	115	176724	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0525-39
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:06:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	52735	1	Standard
	Cl	37		ug/L			3324914	3391437	0	Standard
>	Sc	45		ug/L			423672	626958	1	Standard
	Cr	52	14.503	ug/L	0.069	0	16311	386284	1	Standard
	Cr	53	14.505	ug/L	0.222	1	93	42393	1	Standard
	Mn	55	240.178	ug/L	4.785	1	527	8686024	1	Standard
>	Ge	72		ug/L			20993	21421	1	KED
	Ni	60	18.640	ug/L	0.499	2	13	17847	1	KED
	Ni	62	19.561	ug/L	0.726	3	8	3076	2	KED
	Cu	63	22.002	ug/L	0.417	1	34	62784	0	KED
	Cu	65	22.445	ug/L	0.957	4	19	31621	2	KED
	Zn	66	46.606	ug/L	1.024	2	36	17664	1	KED
	Zn	67	53.270	ug/L	0.470	0	4	3446	1	KED
	As	75	2.073	ug/L	0.084	4	5	401	2	KED
	Y	89		ug/L			210865	578527	1	Standard
	Kr	83		ug/L			43	182	8	Standard
>	In-1	115		ug/L			5860	5952	2	KED
	Cd	111	0.065	ug/L	0.021	32	2	16	25	KED
	Cd	114	0.054	ug/L	0.013	23	6	34	20	KED
>	Tb	159		ug/L			480478	530871	3	Standard
	Pb	208	3.832	ug/L	0.120	3	115	169043	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:11:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	50097	1	Standard
	Cl	37		ug/L			3324914	3416962	0	Standard
>	Sc	45		ug/L			423672	579814	3	Standard
	Cr	52	13.140	ug/L	0.413	3	16311	325653	2	Standard
	Cr	53	13.489	ug/L	0.346	2	93	36455	1	Standard
	Mn	55	210.954	ug/L	3.243	1	527	7054531	1	Standard
>	Ge	72		ug/L			20993	21340	1	KED
	Ni	60	14.865	ug/L	0.177	1	13	14185	1	KED
	Ni	62	15.054	ug/L	0.633	4	8	2360	3	KED
	Cu	63	17.656	ug/L	0.427	2	34	50196	1	KED
	Cu	65	17.539	ug/L	0.382	2	19	24626	0	KED
	Zn	66	37.973	ug/L	1.030	2	36	14343	1	KED
	Zn	67	43.334	ug/L	1.166	2	4	2794	4	KED
	As	75	2.114	ug/L	0.086	4	5	407	3	KED
	Y	89		ug/L			210865	504175	1	Standard
	Kr	83		ug/L			43	146	9	Standard
>	In-1	115		ug/L			5860	5735	2	KED
	Cd	111	0.062	ug/L	0.016	25	2	14	19	KED
	Cd	114	0.071	ug/L	0.019	27	6	41	21	KED
>	Tb	159		ug/L			480478	507146	3	Standard
	Pb	208	3.376	ug/L	0.111	3	115	142276	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:15:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	59899	1	Standard
	Cl	37		ug/L			3324914	3412739	1	Standard
>	Sc	45		ug/L			423672	621114	0	Standard
	Cr	52	14.759	ug/L	0.388	2	16311	389062	2	Standard
	Cr	53	15.083	ug/L	0.258	1	93	43672	2	Standard
	Mn	55	219.746	ug/L	5.425	2	527	7875162	2	Standard
>	Ge	72		ug/L			20993	20560	0	KED
	Ni	60	19.248	ug/L	0.084	0	13	17694	0	KED
	Ni	62	19.239	ug/L	0.382	1	8	2905	2	KED
	Cu	63	21.316	ug/L	0.161	0	34	58394	0	KED
	Cu	65	21.715	ug/L	0.462	2	19	29378	1	KED
	Zn	66	46.140	ug/L	1.378	2	36	16790	3	KED
	Zn	67	52.541	ug/L	1.287	2	4	3262	2	KED
	As	75	2.213	ug/L	0.064	2	5	411	2	KED
	Y	89		ug/L			210865	563606	1	Standard
	Kr	83		ug/L			43	180	8	Standard
>	In-1	115		ug/L			5860	5618	1	KED
	Cd	111	0.069	ug/L	0.005	7	2	16	5	KED
	Cd	114	0.047	ug/L	0.010	20	6	29	16	KED
>	Tb	159		ug/L			480478	517401	1	Standard
	Pb	208	3.772	ug/L	0.088	2	115	162252	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:20:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	56661	0	Standard
	Cl	37		ug/L			3324914	3307978	1	Standard
>	Sc	45		ug/L			423672	586636	1	Standard
	Cr	52	15.760	ug/L	0.120	0	16311	390865	2	Standard
	Cr	53	15.567	ug/L	0.186	1	93	42563	1	Standard
	Mn	55	228.346	ug/L	2.803	1	527	7727400	0	Standard
>	Ge	72		ug/L			20993	20967	0	KED
	Ni	60	16.033	ug/L	0.324	2	13	15030	1	KED
	Ni	62	15.699	ug/L	0.381	2	8	2419	1	KED
	Cu	63	158.739	ug/L	3.297	2	34	443279	2	KED
	Cu	65	157.610	ug/L	3.790	2	19	217311	1	KED
	Zn	66	119.814	ug/L	0.740	0	36	44402	0	KED
	Zn	67	117.694	ug/L	0.712	0	4	7447	0	KED
	As	75	3.950	ug/L	0.136	3	5	743	2	KED
	Y	89		ug/L			210865	490065	1	Standard
	Kr	83		ug/L			43	151	13	Standard
>	In-1	115		ug/L			5860	5856	0	KED
	Cd	111	0.150	ug/L	0.016	10	2	33	9	KED
	Cd	114	0.120	ug/L	0.044	36	6	68	33	KED
>	Tb	159		ug/L			480478	499582	4	Standard
	Pb	208	17.333	ug/L	0.748	4	115	718816	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:27:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	32965	3	Standard
	Cl	**37**		ug/L			3324914	3611272	1	Standard
⎡>	**Sc**	**45**		ug/L			423672	441521	1	Standard
⎢	**Cr**	**52**	**51.036**	ug/L	0.636	1	16311	914511	1	Standard
⎢	**Cr**	**53**	**51.230**	ug/L	0.666	1	93	105210	2	Standard
⎣	**Mn**	**55**	**51.491**	ug/L	0.290	0	527	1312008	1	Standard
⎡>	**Ge**	**72**		ug/L			20993	21313	1	KED
⎢	**Ni**	**60**	**50.124**	ug/L	0.848	1	13	47731	1	KED
⎢	**Ni**	**62**	**50.043**	ug/L	1.188	2	8	7818	0	KED
⎢	**Cu**	**63**	**49.092**	ug/L	0.841	1	34	139333	0	KED
⎢	**Cu**	**65**	**50.442**	ug/L	1.435	2	19	70693	1	KED
⎢	**Zn**	**66**	**51.093**	ug/L	0.763	1	36	19267	2	KED
⎢	**Zn**	**67**	**50.557**	ug/L	0.661	1	4	3254	1	KED
⎣	**As**	**75**	**49.405**	ug/L	1.132	2	5	9386	1	KED
	Y	**89**		ug/L			210865	215921	2	Standard
	Kr	**83**		ug/L			43	60	5	Standard
⎡>	**In-1**	**115**		ug/L			5860	6118	2	KED
⎢	**Cd**	**111**	**50.653**	ug/L	1.044	2	2	11225	0	KED
⎣	**Cd**	**114**	**50.722**	ug/L	0.820	1	6	27308	1	KED
⎡>	**Tb**	**159**		ug/L			480478	497473	4	Standard
⎣	**Pb**	**208**	**53.836**	ug/L	1.820	3	115	2223547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:34:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30093	0	Standard
	Cl	**37**		ug/L			3324914	3264181	0	Standard
⌈>	**Sc**	**45**		ug/L			423672	404319	0	Standard
|	**Cr**	**52**	**-0.006**	ug/L	0.024	395	16311	15466	1	Standard
|	**Cr**	**53**	**-0.000**	ug/L	0.006	1340	93	88	13	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.000	10	527	602	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20183	2	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.002	2748	13	13	14	KED
|	**Ni**	**62**	**-0.028**	ug/L	0.013	46	8	3	50	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.004	171	34	26	47	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.002	66	19	13	20	KED
|	**Zn**	**66**	**-0.039**	ug/L	0.015	39	36	20	24	KED
|	**Zn**	**67**	**-0.018**	ug/L	0.065	365	4	3	124	KED
⌊	**As**	**75**	**0.012**	ug/L	0.002	19	5	7	6	KED
	Y	**89**		ug/L			210865	198781	1	Standard
	Kr	**83**		ug/L			43	51	16	Standard
⌈>	**In-1**	**115**		ug/L			5860	5576	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.010	364	2	1	124	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.004	47	6	1	101	KED
⌈>	**Tb**	**159**		ug/L			480478	458416	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	158	115	112	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:39:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	53197	2	Standard
	Cl	37		ug/L			3324914	3384197	1	Standard
>	Sc	45		ug/L			423672	619722	2	Standard
	Cr	52	14.181	ug/L	0.276	1	16311	373894	2	Standard
	Cr	53	14.477	ug/L	0.071	0	93	41824	1	Standard
	Mn	55	251.992	ug/L	0.481	0	527	9009600	1	Standard
>	Ge	72		ug/L			20993	21749	2	KED
	Ni	60	16.085	ug/L	0.374	2	13	15637	0	KED
	Ni	62	16.292	ug/L	0.561	3	8	2603	3	KED
	Cu	63	82.253	ug/L	1.968	2	34	238173	1	KED
	Cu	65	83.079	ug/L	2.891	3	19	118773	0	KED
	Zn	66	85.056	ug/L	2.781	3	36	32690	0	KED
	Zn	67	85.857	ug/L	0.420	0	4	5637	2	KED
	As	75	3.251	ug/L	0.179	5	5	635	2	KED
	Y	89		ug/L			210865	524566	2	Standard
	Kr	83		ug/L			43	171	16	Standard
>	In-1	115		ug/L			5860	5843	2	KED
	Cd	111	0.126	ug/L	0.020	15	2	28	16	KED
	Cd	114	0.129	ug/L	0.030	23	6	72	19	KED
>	Tb	159		ug/L			480478	510610	3	Standard
	Pb	208	9.229	ug/L	0.316	3	115	391442	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:43:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	51865	3	Standard
Cl	37		ug/L			3324914	3366801	1	Standard
> Sc	45		ug/L			423672	620310	2	Standard
Cr	52	15.786	ug/L	0.255	1	16311	413795	1	Standard
Cr	53	15.909	ug/L	0.372	2	93	45977	1	Standard
Mn	55	279.736	ug/L	5.804	2	527	10007123	0	Standard
> Ge	72		ug/L			20993	21035	1	KED
Ni	60	17.930	ug/L	0.280	1	13	16862	1	KED
Ni	62	18.359	ug/L	0.316	1	8	2836	0	KED
Cu	63	147.537	ug/L	2.988	2	34	413272	2	KED
Cu	65	151.990	ug/L	3.177	2	19	210210	0	KED
Zn	66	166.818	ug/L	3.578	2	36	61992	0	KED
Zn	67	157.778	ug/L	3.633	2	4	10012	0	KED
As	75	3.962	ug/L	0.091	2	5	748	3	KED
Y	89		ug/L			210865	527866	0	Standard
Kr	83		ug/L			43	186	2	Standard
> In-1	115		ug/L			5860	5743	1	KED
Cd	111	0.183	ug/L	0.020	11	2	40	11	KED
Cd	114	0.137	ug/L	0.032	23	6	75	22	KED
> Tb	159		ug/L			480478	505546	4	Standard
Pb	208	18.854	ug/L	0.585	3	115	791521	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:47:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	66838	2	Standard
	Cl	37		ug/L			3324914	3396536	2	Standard
>	Sc	45		ug/L			423672	614888	1	Standard
	Cr	52	16.477	ug/L	0.220	1	16311	427204	1	Standard
	Cr	53	16.367	ug/L	0.362	2	93	46902	2	Standard
	Mn	55	344.942	ug/L	3.316	0	527	12235528	0	Standard
>	Ge	72		ug/L			20993	21055	2	KED
	Ni	60	17.420	ug/L	0.048	0	13	16399	2	KED
	Ni	62	17.887	ug/L	0.303	1	8	2766	1	KED
	Cu	63	299.634	ug/L	4.088	1	34	840080	1	KED
	Cu	65	303.440	ug/L	4.792	1	19	420097	1	KED
	Zn	66	267.295	ug/L	5.754	2	36	99429	2	KED
	Zn	67	251.381	ug/L	4.551	1	4	15972	3	KED
	As	75	7.441	ug/L	0.100	1	5	1402	3	KED
	Y	89		ug/L			210865	524948	1	Standard
	Kr	83		ug/L			43	177	4	Standard
>	In-1	115		ug/L			5860	5742	1	KED
	Cd	111	0.235	ug/L	0.015	6	2	51	4	KED
	Cd	114	0.264	ug/L	0.049	18	6	139	18	KED
>	Tb	159		ug/L			480478	510693	3	Standard
	Pb	208	31.171	ug/L	1.169	3	115	1321876	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:52:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	60756	3	Standard
	Cl	37		ug/L			3324914	3487794	2	Standard
>	Sc	45		ug/L			423672	658659	1	Standard
	Cr	52	19.231	ug/L	0.104	0	16311	529891	1	Standard
	Cr	53	19.629	ug/L	0.337	1	93	60229	2	Standard
	Mn	55	312.870	ug/L	3.636	1	527	11889927	2	Standard
>	Ge	72		ug/L			20993	20872	1	KED
	Ni	60	20.331	ug/L	0.362	1	13	18971	2	KED
	Ni	62	20.419	ug/L	0.229	1	8	3129	1	KED
	Cu	63	174.617	ug/L	5.353	3	34	485202	1	KED
	Cu	65	177.058	ug/L	1.385	0	19	243025	1	KED
	Zn	66	172.556	ug/L	6.360	3	36	63623	2	KED
	Zn	67	171.433	ug/L	3.933	2	4	10794	0	KED
	As	75	3.678	ug/L	0.143	3	5	689	2	KED
	Y	89		ug/L			210865	578852	0	Standard
	Kr	83		ug/L			43	184	4	Standard
>	In-1	115		ug/L			5860	5582	2	KED
	Cd	111	0.298	ug/L	0.068	22	2	62	24	KED
	Cd	114	0.265	ug/L	0.039	14	6	135	13	KED
>	Tb	159		ug/L			480478	532396	1	Standard
	Pb	208	43.157	ug/L	1.236	2	115	1909113	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-18
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 02:56:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	58924	1	Standard
Cl	37		ug/L			3324914	3370048	0	Standard
> Sc	45		ug/L			423672	617373	0	Standard
Cr	52	21.832	ug/L	0.177	0	16311	560643	1	Standard
Cr	53	21.714	ug/L	0.394	1	93	62433	2	Standard
Mn	55	265.880	ug/L	1.343	0	527	9470337	0	Standard
> Ge	72		ug/L			20993	21074	1	KED
Ni	60	21.377	ug/L	0.131	0	13	20140	1	KED
Ni	62	21.451	ug/L	0.056	0	8	3319	1	KED
Cu	63	128.660	ug/L	0.628	0	34	361106	1	KED
Cu	65	130.741	ug/L	1.364	1	19	181193	0	KED
Zn	66	227.423	ug/L	0.447	0	36	84680	1	KED
Zn	67	215.190	ug/L	5.001	2	4	13680	1	KED
As	75	3.876	ug/L	0.103	2	5	733	2	KED
Y	89		ug/L			210865	554098	2	Standard
Kr	83		ug/L			43	175	5	Standard
> In-1	115		ug/L			5860	5813	0	KED
Cd	111	0.338	ug/L	0.039	11	2	73	11	KED
Cd	114	0.341	ug/L	0.006	1	6	180	1	KED
> Tb	159		ug/L			480478	501633	3	Standard
Pb	208	67.113	ug/L	2.232	3	115	2795636	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:01:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	55879	5	Standard
	Cl	37		ug/L			3324914	3391724	1	Standard
>	Sc	45		ug/L			423672	584864	1	Standard
	Cr	52	17.323	ug/L	0.138	0	16311	426093	2	Standard
	Cr	53	17.444	ug/L	0.175	1	93	47536	1	Standard
	Mn	55	256.429	ug/L	4.069	1	527	8650925	0	Standard
>	Ge	72		ug/L			20993	21016	0	KED
	Ni	60	15.312	ug/L	0.363	2	13	14388	1	KED
	Ni	62	15.874	ug/L	0.508	3	8	2452	3	KED
	Cu	63	64.773	ug/L	0.745	1	34	181300	0	KED
	Cu	65	64.950	ug/L	1.139	1	19	89777	1	KED
	Zn	66	164.267	ug/L	1.606	0	36	61003	0	KED
	Zn	67	156.623	ug/L	1.698	1	4	9932	1	KED
	As	75	4.273	ug/L	0.070	1	5	805	1	KED
	Y	89		ug/L			210865	476907	0	Standard
	Kr	83		ug/L			43	163	5	Standard
>	In-1	115		ug/L			5860	5596	2	KED
	Cd	111	0.273	ug/L	0.027	10	2	57	11	KED
	Cd	114	0.279	ug/L	0.035	12	6	143	11	KED
>	Tb	159		ug/L			480478	497986	2	Standard
	Pb	208	22.666	ug/L	0.532	2	115	937763	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:05:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	57831	1	Standard
	Cl	37		ug/L			3324914	3420381	1	Standard
>	Sc	45		ug/L			423672	598825	2	Standard
	Cr	52	25.556	ug/L	0.604	2	16311	632401	1	Standard
	Cr	53	25.854	ug/L	0.428	1	93	72062	2	Standard
	Mn	55	295.355	ug/L	4.829	1	527	10200949	1	Standard
>	Ge	72		ug/L			20993	21303	3	KED
	Ni	60	17.800	ug/L	0.779	4	13	16947	4	KED
	Ni	62	17.679	ug/L	0.306	1	8	2765	2	KED
	Cu	63	69.250	ug/L	2.212	3	34	196362	2	KED
	Cu	65	69.809	ug/L	0.421	0	19	97819	3	KED
	Zn	66	177.891	ug/L	3.546	1	36	66932	2	KED
	Zn	67	188.821	ug/L	0.844	0	4	12138	4	KED
	As	75	4.955	ug/L	0.133	2	5	945	1	KED
	Y	89		ug/L			210865	515122	1	Standard
	Kr	83		ug/L			43	168	14	Standard
>	In-1	115		ug/L			5860	5688	2	KED
	Cd	111	0.332	ug/L	0.019	5	2	70	3	KED
	Cd	114	0.302	ug/L	0.037	12	6	157	11	KED
>	Tb	159		ug/L			480478	507345	2	Standard
	Pb	208	35.143	ug/L	0.833	2	115	1481052	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:09:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	56409	4	Standard
Cl	37		ug/L			3324914	3493037	0	Standard
Sc	45		ug/L			423672	588963	2	Standard
Cr	52	16.558	ug/L	0.195	1	16311	411058	1	Standard
Cr	53	16.775	ug/L	0.056	0	93	46038	1	Standard
Mn	55	268.768	ug/L	7.479	2	527	9129249	0	Standard
Ge	72		ug/L			20993	21042	0	KED
Ni	60	17.956	ug/L	0.120	0	13	16893	0	KED
Ni	62	17.686	ug/L	0.379	2	8	2734	1	KED
Cu	63	38.342	ug/L	0.262	0	34	107475	1	KED
Cu	65	38.931	ug/L	0.301	0	19	53892	1	KED
Zn	66	112.545	ug/L	2.026	1	36	41861	2	KED
Zn	67	140.182	ug/L	1.154	0	4	8901	0	KED
As	75	3.268	ug/L	0.158	4	5	618	4	KED
Y	89		ug/L			210865	498858	1	Standard
Kr	83		ug/L			43	129	14	Standard
In-1	115		ug/L			5860	5514	1	KED
Cd	111	0.256	ug/L	0.041	16	2	53	16	KED
Cd	114	0.276	ug/L	0.032	11	6	139	10	KED
Tb	159		ug/L			480478	508471	5	Standard
Pb	208	26.628	ug/L	1.257	4	115	1123426	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-25
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:14:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	55168	1	Standard
Cl	37		ug/L			3324914	3440549	2	Standard
Sc	45		ug/L			423672	635485	1	Standard
Cr	52	16.070	ug/L	0.229	1	16311	431248	2	Standard
Cr	53	16.360	ug/L	0.150	0	93	48452	1	Standard
Mn	55	334.114	ug/L	9.380	2	527	12247891	2	Standard
Ge	72		ug/L			20993	20516	2	KED
Ni	60	17.893	ug/L	0.574	3	13	16407	1	KED
Ni	62	17.766	ug/L	0.354	1	8	2677	2	KED
Cu	63	43.485	ug/L	0.688	1	34	118813	0	KED
Cu	65	44.186	ug/L	1.622	3	19	59607	2	KED
Zn	66	145.151	ug/L	3.640	2	36	52615	1	KED
Zn	67	137.829	ug/L	4.325	3	4	8530	1	KED
As	75	3.428	ug/L	0.128	3	5	632	4	KED
Y	89		ug/L			210865	577981	0	Standard
Kr	83		ug/L			43	187	14	Standard
In-1	115		ug/L			5860	5625	1	KED
Cd	111	0.293	ug/L	0.023	7	2	61	6	KED
Cd	114	0.273	ug/L	0.018	6	6	141	6	KED
Tb	159		ug/L			480478	518871	1	Standard
Pb	208	30.997	ug/L	0.795	2	115	1336219	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-26
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:18:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	58886	0	Standard
Cl	37		ug/L			3324914	3401391	1	Standard
> Sc	45		ug/L			423672	611363	1	Standard
Cr	52	14.816	ug/L	0.184	1	16311	384341	2	Standard
Cr	53	14.908	ug/L	0.240	1	93	42493	2	Standard
Mn	55	330.629	ug/L	5.954	1	527	11660014	0	Standard
> Ge	72		ug/L			20993	21424	0	KED
Ni	60	17.286	ug/L	0.269	1	13	16560	1	KED
Ni	62	17.264	ug/L	0.386	2	8	2717	2	KED
Cu	63	35.504	ug/L	0.371	1	34	101332	1	KED
Cu	65	35.814	ug/L	0.192	0	19	50476	0	KED
Zn	66	132.881	ug/L	1.609	1	36	50317	1	KED
Zn	67	126.361	ug/L	3.197	2	4	8170	2	KED
As	75	3.639	ug/L	0.152	4	5	700	4	KED
Y	89		ug/L			210865	564808	1	Standard
Kr	83		ug/L			43	184	16	Standard
> In-1	115		ug/L			5860	6013	1	KED
Cd	111	0.239	ug/L	0.025	10	2	54	10	KED
Cd	114	0.229	ug/L	0.033	14	6	127	14	KED
> Tb	159		ug/L			480478	514463	3	Standard
Pb	208	24.244	ug/L	0.723	2	115	1035773	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:26:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31867	2	Standard
	Cl	**37**		ug/L			3324914	3553555	0	Standard
⎡>	**Sc**	**45**		ug/L			423672	411155	2	Standard
⎢	**Cr**	**52**	**50.318**	ug/L	0.946	1	16311	839634	0	Standard
⎢	**Cr**	**53**	**50.103**	ug/L	0.527	1	93	95819	2	Standard
⎣	**Mn**	**55**	**51.220**	ug/L	0.354	0	527	1215524	2	Standard
⎡>	**Ge**	**72**		ug/L			20993	20963	1	KED
⎢	**Ni**	**60**	**51.785**	ug/L	0.802	1	13	48508	1	KED
⎢	**Ni**	**62**	**51.093**	ug/L	0.143	0	8	7854	1	KED
⎢	**Cu**	**63**	**50.499**	ug/L	0.978	1	34	140988	1	KED
⎢	**Cu**	**65**	**50.551**	ug/L	0.872	1	19	69697	0	KED
⎢	**Zn**	**66**	**51.345**	ug/L	1.017	1	36	19046	2	KED
⎢	**Zn**	**67**	**51.179**	ug/L	1.281	2	4	3241	3	KED
⎣	**As**	**75**	**50.172**	ug/L	1.082	2	5	9376	0	KED
	Y	**89**		ug/L			210865	197236	2	Standard
	Kr	**83**		ug/L			43	57	11	Standard
⎡>	**In-1**	**115**		ug/L			5860	5407	1	KED
⎢	**Cd**	**111**	**51.898**	ug/L	0.494	0	2	10169	0	KED
⎣	**Cd**	**114**	**53.497**	ug/L	0.373	0	6	25468	1	KED
⎡>	**Tb**	**159**		ug/L			480478	467036	3	Standard
⎣	**Pb**	**208**	**53.906**	ug/L	1.877	3	115	2090397	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:33:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31022	3	Standard
	Cl	**37**		ug/L			3324914	3277195	0	Standard
⌈>	**Sc**	**45**		ug/L			423672	397897	0	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.027	190	16311	15541	1	Standard
|	**Cr**	**53**	**0.001**	ug/L	0.008	597	93	90	16	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.001	11	527	672	2	Standard
⌈>	**Ge**	**72**		ug/L			20993	20621	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.002	509	13	13	14	KED
|	**Ni**	**62**	**-0.008**	ug/L	0.029	375	8	6	62	KED
|	**Cu**	**63**	**0.006**	ug/L	0.004	60	34	50	20	KED
|	**Cu**	**65**	**0.007**	ug/L	0.003	43	19	29	15	KED
|	**Zn**	**66**	**0.059**	ug/L	0.039	65	36	57	25	KED
|	**Zn**	**67**	**0.032**	ug/L	0.064	198	4	6	62	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.004	61	5	4	19	KED
	Y	**89**		ug/L			210865	197843	2	Standard
	Kr	**83**		ug/L			43	52	20	Standard
⌈>	**In-1**	**115**		ug/L			5860	5695	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	95	2	1	34	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	74	6	3	69	KED
⌈>	**Tb**	**159**		ug/L			480478	452103	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	3	115	251	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-30
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:37:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	59152	4	Standard
	Cl	37		ug/L			3324914	3435177	4	Standard
>	Sc	45		ug/L			423672	584804	3	Standard
	Cr	52	17.182	ug/L	0.410	2	16311	422604	2	Standard
	Cr	53	17.075	ug/L	0.172	1	93	46541	4	Standard
	Mn	55	378.718	ug/L	6.523	1	527	12778607	3	Standard
>	Ge	72		ug/L			20993	20917	1	KED
	Ni	60	17.923	ug/L	0.525	2	13	16759	2	KED
	Ni	62	20.533	ug/L	0.531	2	8	3153	2	KED
	Cu	63	1040.504	ug/L	9.440	0	34	2898097	0	KED
	Cu	65	1018.154	ug/L	12.658	1	19	1400619	2	KED
	Zn	66	428.838	ug/L	5.562	1	36	158462	2	KED
	Zn	67	391.434	ug/L	4.387	1	4	24700	1	KED
	As	75	10.788	ug/L	0.234	2	5	2016	1	KED
	Y	89		ug/L			210865	490076	2	Standard
	Kr	83		ug/L			43	137	12	Standard
>	In-1	115		ug/L			5860	5735	2	KED
	Cd	111	0.409	ug/L	0.051	12	2	87	13	KED
	Cd	114	0.403	ug/L	0.045	11	6	209	12	KED
>	Tb	159		ug/L			480478	493534	5	Standard
	Pb	208	47.526	ug/L	2.114	4	115	1946023	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-31
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:41:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	48190	2	Standard
Cl	37		ug/L			3324914	3410039	1	Standard
> Sc	45		ug/L			423672	583149	2	Standard
Cr	52	15.209	ug/L	0.071	0	16311	375698	1	Standard
Cr	53	15.306	ug/L	0.087	0	93	41609	2	Standard
Mn	55	230.551	ug/L	5.553	2	527	7755480	2	Standard
> Ge	72		ug/L			20993	20832	1	KED
Ni	60	18.975	ug/L	0.540	2	13	17669	1	KED
Ni	62	19.450	ug/L	0.749	3	8	2976	4	KED
Cu	63	157.229	ug/L	3.198	2	34	436143	1	KED
Cu	65	161.552	ug/L	1.613	0	19	221341	1	KED
Zn	66	103.568	ug/L	3.204	3	36	38133	2	KED
Zn	67	101.228	ug/L	3.595	3	4	6363	2	KED
As	75	2.563	ug/L	0.065	2	5	481	3	KED
Y	89		ug/L			210865	512499	0	Standard
Kr	83		ug/L			43	184	11	Standard
> In-1	115		ug/L			5860	5524	3	KED
Cd	111	0.132	ug/L	0.012	9	2	28	10	KED
Cd	114	0.120	ug/L	0.021	17	6	64	13	KED
> Tb	159		ug/L			480478	497159	3	Standard
Pb	208	23.966	ug/L	0.629	2	115	989627	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-32
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:46:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	42321	3	Standard
	Cl	37		ug/L			3324914	3344335	2	Standard
⌈>	Sc	45		ug/L			423672	528839	1	Standard
|	Cr	52	10.027	ug/L	0.221	2	16311	231560	2	Standard
|	Cr	53	10.334	ug/L	0.090	0	93	25513	1	Standard
⌊	Mn	55	167.397	ug/L	2.556	1	527	5107822	2	Standard
⌈>	Ge	72		ug/L			20993	21127	0	KED
|	Ni	60	17.028	ug/L	0.561	3	13	16083	2	KED
|	Ni	62	17.093	ug/L	0.584	3	8	2652	2	KED
|	Cu	63	13.831	ug/L	0.497	3	34	38938	2	KED
|	Cu	65	13.620	ug/L	0.392	2	19	18938	2	KED
|	Zn	66	40.743	ug/L	1.194	2	36	15237	2	KED
|	Zn	67	43.857	ug/L	0.767	1	4	2799	0	KED
⌊	As	75	1.862	ug/L	0.046	2	5	356	3	KED
	Y	89		ug/L			210865	443516	1	Standard
	Kr	83		ug/L			43	123	17	Standard
⌈>	In-1	115		ug/L			5860	5736	2	KED
|	Cd	111	0.040	ug/L	0.005	12	2	10	9	KED
⌊	Cd	114	0.027	ug/L	0.008	29	6	19	20	KED
⌈>	Tb	159		ug/L			480478	499603	3	Standard
⌊	Pb	208	3.572	ug/L	0.155	4	115	148265	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22H0529-33
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:50:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	46571	1	Standard
Cl	37		ug/L			3324914	3435162	1	Standard
> Sc	45		ug/L			423672	538074	0	Standard
Cr	52	10.112	ug/L	0.182	1	16311	237442	1	Standard
Cr	53	10.327	ug/L	0.033	0	93	25939	0	Standard
Mn	55	186.104	ug/L	3.535	1	527	5776941	1	Standard
> Ge	72		ug/L			20993	20762	2	KED
Ni	60	17.434	ug/L	0.532	3	13	16174	0	KED
Ni	62	16.741	ug/L	1.597	9	8	2549	6	KED
Cu	63	14.629	ug/L	0.298	2	34	40468	1	KED
Cu	65	14.902	ug/L	0.346	2	19	20356	0	KED
Zn	66	42.271	ug/L	2.748	6	36	15515	3	KED
Zn	67	46.612	ug/L	1.609	3	4	2922	2	KED
As	75	1.735	ug/L	0.090	5	5	326	3	KED
Y	89		ug/L			210865	494575	1	Standard
Kr	83		ug/L			43	135	14	Standard
> In-1	115		ug/L			5860	5511	4	KED
Cd	111	0.042	ug/L	0.016	36	2	10	24	KED
Cd	114	0.035	ug/L	0.014	40	6	23	34	KED
> Tb	159		ug/L			480478	497846	2	Standard
Pb	208	2.333	ug/L	0.078	3	115	96587	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:55:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	47978	1	Standard
Cl	37		ug/L			3324914	3428684	0	Standard
> Sc	45		ug/L			423672	547385	1	Standard
Cr	52	11.305	ug/L	0.195	1	16311	267509	0	Standard
Cr	53	11.410	ug/L	0.102	0	93	29141	0	Standard
Mn	55	204.057	ug/L	5.069	2	527	6442844	1	Standard
> Ge	72		ug/L			20993	20835	0	KED
Ni	60	16.911	ug/L	0.304	1	13	15754	1	KED
Ni	62	17.067	ug/L	0.392	2	8	2612	2	KED
Cu	63	18.217	ug/L	0.318	1	34	50577	1	KED
Cu	65	18.414	ug/L	0.250	1	19	25249	1	KED
Zn	66	82.995	ug/L	0.667	0	36	30574	0	KED
Zn	67	81.424	ug/L	3.657	4	4	5121	4	KED
As	75	3.418	ug/L	0.173	5	5	640	4	KED
Y	89		ug/L			210865	488291	1	Standard
Kr	83		ug/L			43	158	7	Standard
> In-1	115		ug/L			5860	5655	2	KED
Cd	111	0.114	ug/L	0.023	19	2	25	17	KED
Cd	114	0.124	ug/L	0.011	9	6	67	9	KED
> Tb	159		ug/L			480478	503350	3	Standard
Pb	208	9.375	ug/L	0.348	3	115	391984	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 03:59:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	52623	1	Standard
Cl	37		ug/L			3324914	3421904	1	Standard
> Sc	45		ug/L			423672	558781	2	Standard
Cr	52	12.347	ug/L	0.072	0	16311	296308	1	Standard
Cr	53	12.436	ug/L	0.215	1	93	32408	1	Standard
Mn	55	191.830	ug/L	0.459	0	527	6184482	2	Standard
> Ge	72		ug/L			20993	20928	1	KED
Ni	60	19.637	ug/L	0.053	0	13	18374	2	KED
Ni	62	18.816	ug/L	0.175	0	8	2892	2	KED
Cu	63	17.874	ug/L	0.477	2	34	49839	2	KED
Cu	65	18.632	ug/L	0.936	5	19	25647	3	KED
Zn	66	65.456	ug/L	0.326	0	36	24229	1	KED
Zn	67	68.077	ug/L	3.169	4	4	4300	4	KED
As	75	2.141	ug/L	0.093	4	5	404	3	KED
Y	89		ug/L			210865	499188	1	Standard
Kr	83		ug/L			43	168	6	Standard
> In-1	115		ug/L			5860	5564	0	KED
Cd	111	0.095	ug/L	0.011	11	2	21	11	KED
Cd	114	0.077	ug/L	0.015	19	6	43	17	KED
> Tb	159		ug/L			480478	493587	3	Standard
Pb	208	13.795	ug/L	0.345	2	115	565609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:03:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	46348	1	Standard
	Cl	37		ug/L			3324914	3429129	2	Standard
>	Sc	45		ug/L			423672	552050	1	Standard
	Cr	52	10.564	ug/L	0.091	0	16311	253507	1	Standard
	Cr	53	10.535	ug/L	0.259	2	93	27140	0	Standard
	Mn	55	171.028	ug/L	1.826	1	527	5446801	0	Standard
>	Ge	72		ug/L			20993	21205	2	KED
	Ni	60	18.315	ug/L	0.616	3	13	17357	2	KED
	Ni	62	17.864	ug/L	0.425	2	8	2783	3	KED
	Cu	63	15.363	ug/L	0.470	3	34	43403	2	KED
	Cu	65	15.543	ug/L	0.283	1	19	21694	3	KED
	Zn	66	47.926	ug/L	1.605	3	36	17984	3	KED
	Zn	67	50.322	ug/L	2.412	4	4	3221	3	KED
	As	75	2.000	ug/L	0.068	3	5	383	5	KED
	Y	89		ug/L			210865	613016	0	Standard
	Kr	83		ug/L			43	153	8	Standard
>	In-1	115		ug/L			5860	5884	1	KED
	Cd	111	0.040	ug/L	0.004	8	2	10	5	KED
	Cd	114	0.044	ug/L	0.010	21	6	29	15	KED
>	Tb	159		ug/L			480478	508235	3	Standard
	Pb	208	5.068	ug/L	0.178	3	115	213993	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:08:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	49808	1	Standard
	Cl	37		ug/L			3324914	3433582	0	Standard
>	Sc	45		ug/L			423672	580459	0	Standard
	Cr	52	15.332	ug/L	0.186	1	16311	376823	1	Standard
	Cr	53	15.527	ug/L	0.094	0	93	42009	1	Standard
	Mn	55	259.850	ug/L	4.345	1	527	8701827	1	Standard
>	Ge	72		ug/L			20993	20813	1	KED
	Ni	60	21.054	ug/L	0.414	1	13	19587	0	KED
	Ni	62	20.511	ug/L	1.219	5	8	3133	4	KED
	Cu	63	23.716	ug/L	0.404	1	34	65772	2	KED
	Cu	65	23.758	ug/L	0.203	0	19	32534	1	KED
	Zn	66	82.527	ug/L	1.292	1	36	30366	0	KED
	Zn	67	86.803	ug/L	1.844	2	4	5453	1	KED
	As	75	2.533	ug/L	0.052	2	5	475	1	KED
	Y	89		ug/L			210865	470527	2	Standard
	Kr	83		ug/L			43	176	6	Standard
>	In-1	115		ug/L			5860	5527	2	KED
	Cd	111	0.145	ug/L	0.019	12	2	31	10	KED
	Cd	114	0.143	ug/L	0.030	21	6	75	19	KED
>	Tb	159		ug/L			480478	492355	2	Standard
	Pb	208	19.863	ug/L	0.670	3	115	812292	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:12:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	55628	1	Standard
	Cl	37		ug/L			3324914	3495838	2	Standard
>	Sc	45		ug/L			423672	619912	1	Standard
	Cr	52	17.326	ug/L	0.276	1	16311	451626	0	Standard
	Cr	53	17.477	ug/L	0.170	0	93	50486	2	Standard
	Mn	55	296.129	ug/L	1.479	0	527	10590734	1	Standard
>	Ge	72		ug/L			20993	20654	1	KED
	Ni	60	21.316	ug/L	0.309	1	13	19680	0	KED
	Ni	62	20.963	ug/L	1.167	5	8	3178	4	KED
	Cu	63	35.930	ug/L	1.052	2	34	98840	2	KED
	Cu	65	36.339	ug/L	0.848	2	19	49367	1	KED
	Zn	66	128.330	ug/L	1.419	1	36	46845	1	KED
	Zn	67	123.723	ug/L	5.019	4	4	7710	3	KED
	As	75	3.622	ug/L	0.116	3	5	672	2	KED
	Y	89		ug/L			210865	534098	2	Standard
	Kr	83		ug/L			43	182	16	Standard
>	In-1	115		ug/L			5860	5439	0	KED
	Cd	111	0.341	ug/L	0.010	2	2	69	2	KED
	Cd	114	0.343	ug/L	0.038	10	6	170	10	KED
>	Tb	159		ug/L			480478	501504	4	Standard
	Pb	208	42.916	ug/L	1.362	3	115	1786980	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:17:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			31215	53324	2	Standard
	Cl	37		ug/L			3324914	3531376	1	Standard
>	Sc	45		ug/L			423672	549194	1	Standard
	Cr	52	9.678	ug/L	0.051	0	16311	232837	1	Standard
	Cr	53	9.817	ug/L	0.167	1	93	25171	1	Standard
	Mn	55	167.741	ug/L	0.708	0	527	5314942	1	Standard
>	Ge	72		ug/L			20993	21306	0	KED
	Ni	60	17.268	ug/L	0.496	2	13	16450	2	KED
	Ni	62	16.962	ug/L	0.027	0	8	2655	0	KED
	Cu	63	14.075	ug/L	0.122	0	34	39965	0	KED
	Cu	65	14.496	ug/L	0.308	2	19	20330	2	KED
	Zn	66	45.175	ug/L	0.389	0	36	17034	0	KED
	Zn	67	46.107	ug/L	1.742	3	4	2967	3	KED
	As	75	1.786	ug/L	0.028	1	5	344	1	KED
	Y	89		ug/L			210865	541666	1	Standard
	Kr	83		ug/L			43	123	12	Standard
>	In-1	115		ug/L			5860	5660	0	KED
	Cd	111	0.030	ug/L	0.005	17	2	8	13	KED
	Cd	114	0.039	ug/L	0.005	12	6	25	9	KED
>	Tb	159		ug/L			480478	508493	3	Standard
	Pb	208	5.829	ug/L	0.221	3	115	246247	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:24:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31687	3	Standard
	Cl	**37**		ug/L			3324914	3528087	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	404925	2	Standard
|	**Cr**	**52**	**51.520**	ug/L	1.179	2	16311	846326	2	Standard
|	**Cr**	**53**	**51.090**	ug/L	1.275	2	93	96187	1	Standard
⌊	**Mn**	**55**	**51.365**	ug/L	0.640	1	527	1200132	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	19951	1	KED
|	**Ni**	**60**	**51.930**	ug/L	1.507	2	13	46286	1	KED
|	**Ni**	**62**	**51.456**	ug/L	0.981	1	8	7527	1	KED
|	**Cu**	**63**	**51.766**	ug/L	0.343	0	34	137551	0	KED
|	**Cu**	**65**	**52.294**	ug/L	1.483	2	19	68610	1	KED
|	**Zn**	**66**	**50.951**	ug/L	1.349	2	36	17982	1	KED
|	**Zn**	**67**	**53.035**	ug/L	1.493	2	4	3195	2	KED
⌊	**As**	**75**	**51.477**	ug/L	0.884	1	5	9157	1	KED
	Y	**89**		ug/L			210865	201459	0	Standard
	Kr	**83**		ug/L			43	40	17	Standard
⌈>	**In-1**	**115**		ug/L			5860	5557	1	KED
|	**Cd**	**111**	**51.054**	ug/L	0.731	1	2	10280	0	KED
⌊	**Cd**	**114**	**51.070**	ug/L	0.654	1	6	24983	0	KED
⌈>	**Tb**	**159**		ug/L			480478	460335	3	Standard
⌊	**Pb**	**208**	**54.571**	ug/L	1.494	2	115	2086351	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:31:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30209	2	Standard
	Cl	**37**		ug/L			3324914	3262902	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	394751	1	Standard
|	**Cr**	**52**	**-0.013**	ug/L	0.019	145	16311	14995	3	Standard
|	**Cr**	**53**	**-0.004**	ug/L	0.005	124	93	79	10	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.001	10	527	679	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	19446	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.001	54	13	10	10	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.014	52	8	3	50	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	29	34	43	9	KED
|	**Cu**	**65**	**0.007**	ug/L	0.007	97	19	27	32	KED
|	**Zn**	**66**	**0.060**	ug/L	0.028	46	36	53	16	KED
|	**Zn**	**67**	**0.070**	ug/L	0.035	49	4	8	26	KED
⌊	**As**	**75**	**0.005**	ug/L	0.015	270	5	6	38	KED
	Y	**89**		ug/L			210865	195241	1	Standard
	Kr	**83**		ug/L			43	55	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5455	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.010	112	2	3	50	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.006	194	6	4	68	KED
⌈>	**Tb**	**159**		ug/L			480478	441897	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	7	115	248	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0428-01RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:36:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	42631	2	Standard
	Cl	**37**		ug/L			3324914	3444399	3	Standard
⌈>	**Sc**	**45**		ug/L			423672	426178	3	Standard
|	**Cr**	**52**	**0.392**	ug/L	0.015	3	16311	23064	2	Standard
|	**Cr**	**53**	**0.443**	ug/L	0.005	1	93	971	2	Standard
⌊	**Mn**	**55**	**3.009**	ug/L	0.051	1	527	74487	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20143	1	KED
|	**Ni**	**60**	**1.065**	ug/L	0.036	3	13	972	5	KED
|	**Ni**	**62**	**1.083**	ug/L	0.077	7	8	167	5	KED
|	**Cu**	**63**	**0.981**	ug/L	0.020	2	34	2663	1	KED
|	**Cu**	**65**	**1.006**	ug/L	0.056	5	19	1350	4	KED
|	**Zn**	**66**	**1.912**	ug/L	0.101	5	36	714	3	KED
|	**Zn**	**67**	**4.395**	ug/L	0.285	6	4	271	4	KED
⌊	**As**	**75**	**0.518**	ug/L	0.012	2	5	98	3	KED
	Y	**89**		ug/L			210865	199294	5	Standard
	Kr	**83**		ug/L			43	42	9	Standard
⌈>	**In-1**	**115**		ug/L			5860	5564	1	KED
|	**Cd**	**111**	**0.016**	ug/L	0.013	82	2	5	50	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	118	6	7	28	KED
⌈>	**Tb**	**159**		ug/L			480478	456420	3	Standard
⌊	**Pb**	**208**	**0.085**	ug/L	0.004	4	115	3335	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-04
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:40:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43313	0	Standard
	Cl	**37**		ug/L			3324914	3511711	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	408571	1	Standard
|	**Cr**	**52**	**0.315**	ug/L	0.031	9	16311	20852	1	Standard
|	**Cr**	**53**	**0.265**	ug/L	0.007	2	93	593	3	Standard
⌊	**Mn**	**55**	**0.906**	ug/L	0.017	1	527	21852	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	21157	2	KED
|	**Ni**	**60**	**0.142**	ug/L	0.007	4	13	147	6	KED
|	**Ni**	**62**	**0.052**	ug/L	0.065	125	8	16	63	KED
|	**Cu**	**63**	**0.346**	ug/L	0.001	0	34	1010	2	KED
|	**Cu**	**65**	**0.344**	ug/L	0.036	10	19	497	7	KED
|	**Zn**	**66**	**11.768**	ug/L	0.181	1	36	4432	0	KED
|	**Zn**	**67**	**10.259**	ug/L	0.103	1	4	659	1	KED
⌊	**As**	**75**	**0.204**	ug/L	0.020	9	5	44	9	KED
	Y	**89**		ug/L			210865	197090	0	Standard
	Kr	**83**		ug/L			43	48	35	Standard
⌈>	**In-1**	**115**		ug/L			5860	5935	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.003	34	2	0	86	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	53	6	3	30	KED
⌈>	**Tb**	**159**		ug/L			480478	453850	3	Standard
⌊	**Pb**	**208**	**0.013**	ug/L	0.002	12	115	611	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-06
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:44:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44977	2	Standard
	Cl	**37**		ug/L			3324914	3501369	4	Standard
⌈>	**Sc**	**45**		ug/L			423672	421978	2	Standard
|	**Cr**	**52**	**0.360**	ug/L	0.023	6	16311	22285	0	Standard
|	**Cr**	**53**	**0.297**	ug/L	0.019	6	93	676	7	Standard
⌊	**Mn**	**55**	**3.485**	ug/L	0.101	2	527	85322	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	19998	3	KED
|	**Ni**	**60**	**7.257**	ug/L	0.093	1	13	6495	2	KED
|	**Ni**	**62**	**6.752**	ug/L	0.358	5	8	997	7	KED
|	**Cu**	**63**	**0.232**	ug/L	0.011	4	34	650	8	KED
|	**Cu**	**65**	**0.240**	ug/L	0.008	3	19	333	5	KED
|	**Zn**	**66**	**63.310**	ug/L	0.842	1	36	22397	4	KED
|	**Zn**	**67**	**53.537**	ug/L	1.707	3	4	3232	3	KED
⌊	**As**	**75**	**0.161**	ug/L	0.021	13	5	34	14	KED
	Y	**89**		ug/L			210865	205077	2	Standard
	Kr	**83**		ug/L			43	56	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5431	0	KED
|	**Cd**	**111**	**0.007**	ug/L	0.014	191	2	3	78	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	190	6	4	48	KED
⌈>	**Tb**	**159**		ug/L			480478	473744	2	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.000	3	115	591	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-08
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:49:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43123	1	Standard
	Cl	**37**		ug/L			3324914	3441339	2	Standard
⌈>	**Sc**	**45**		ug/L			423672	412563	2	Standard
|	**Cr**	**52**	**0.510**	ug/L	0.034	6	16311	24261	0	Standard
|	**Cr**	**53**	**0.468**	ug/L	0.027	5	93	989	6	Standard
⌊	**Mn**	**55**	**0.793**	ug/L	0.020	2	527	19380	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	20785	3	KED
|	**Ni**	**60**	**0.191**	ug/L	0.011	5	13	191	8	KED
|	**Ni**	**62**	**0.250**	ug/L	0.015	5	8	46	8	KED
|	**Cu**	**63**	**0.724**	ug/L	0.027	3	34	2035	1	KED
|	**Cu**	**65**	**0.738**	ug/L	0.035	4	19	1027	3	KED
|	**Zn**	**66**	**7.272**	ug/L	0.105	1	36	2704	2	KED
|	**Zn**	**67**	**6.462**	ug/L	0.402	6	4	408	2	KED
⌊	**As**	**75**	**0.273**	ug/L	0.007	2	5	56	2	KED
	Y	**89**		ug/L			210865	201406	1	Standard
	Kr	**83**		ug/L			43	43	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5575	5	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	524	2	1	50	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.006	215	6	4	64	KED
⌈>	**Tb**	**159**		ug/L			480478	456293	3	Standard
⌊	**Pb**	**208**	**0.021**	ug/L	0.002	9	115	910	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-10
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:53:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	45626	4	Standard
	Cl	**37**		ug/L			3324914	3490064	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	425522	1	Standard
|	**Cr**	**52**	**0.326**	ug/L	0.044	13	16311	21897	2	Standard
|	**Cr**	**53**	**0.265**	ug/L	0.006	2	93	617	2	Standard
⌊	**Mn**	**55**	**3.196**	ug/L	0.022	0	527	78986	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20100	1	KED
|	**Ni**	**60**	**0.064**	ug/L	0.010	15	13	71	10	KED
|	**Ni**	**62**	**0.028**	ug/L	0.021	72	8	12	24	KED
|	**Cu**	**63**	**0.310**	ug/L	0.027	8	34	860	6	KED
|	**Cu**	**65**	**0.298**	ug/L	0.002	0	19	412	1	KED
|	**Zn**	**66**	**45.064**	ug/L	0.540	1	36	16029	0	KED
|	**Zn**	**67**	**40.680**	ug/L	1.053	2	4	2470	1	KED
⌊	**As**	**75**	**0.179**	ug/L	0.009	5	5	37	4	KED
	Y	**89**		ug/L			210865	213329	1	Standard
	Kr	**83**		ug/L			43	53	18	Standard
⌈>	**In-1**	**115**		ug/L			5860	5514	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	115	2	1	34	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.004	38	6	1	177	KED
⌈>	**Tb**	**159**		ug/L			480478	470093	3	Standard
⌊	**Pb**	**208**	**0.019**	ug/L	0.002	9	115	857	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-12
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 04:57:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44946	0	Standard
	Cl	**37**		ug/L			3324914	3455689	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	437008	2	Standard
|	**Cr**	**52**	**0.337**	ug/L	0.023	6	16311	22679	2	Standard
|	**Cr**	**53**	**0.326**	ug/L	0.015	4	93	757	5	Standard
⌊	**Mn**	**55**	**0.690**	ug/L	0.017	2	527	17930	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20974	2	KED
|	**Ni**	**60**	**0.102**	ug/L	0.008	7	13	109	7	KED
|	**Ni**	**62**	**0.099**	ug/L	0.035	35	8	23	24	KED
|	**Cu**	**63**	**0.424**	ug/L	0.021	4	34	1218	4	KED
|	**Cu**	**65**	**0.418**	ug/L	0.024	5	19	596	3	KED
|	**Zn**	**66**	**7.903**	ug/L	0.399	5	36	2962	4	KED
|	**Zn**	**67**	**7.218**	ug/L	0.111	1	4	460	1	KED
⌊	**As**	**75**	**0.174**	ug/L	0.027	15	5	38	10	KED
	Y	**89**		ug/L			210865	211915	0	Standard
	Kr	**83**		ug/L			43	51	16	Standard
⌈>	**In-1**	**115**		ug/L			5860	6000	1	KED
|	**Cd**	**111**	**0.007**	ug/L	0.005	65	2	3	25	KED
⌊	**Cd**	**114**	**-0.011**	ug/L	0.002	22	6	0	171	KED
⌈>	**Tb**	**159**		ug/L			480478	479164	4	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.000	0	115	806	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:02:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	45110	1	Standard
	Cl	**37**		ug/L			3324914	3443551	0	Standard
⌈>	**Sc**	**45**		ug/L			423672	417979	1	Standard
|	**Cr**	**52**	**0.375**	ug/L	0.038	10	16311	22342	2	Standard
|	**Cr**	**53**	**0.281**	ug/L	0.011	3	93	637	2	Standard
⌊	**Mn**	**55**	**2.606**	ug/L	0.064	2	527	63354	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	21028	1	KED
|	**Ni**	**60**	**0.074**	ug/L	0.008	10	13	83	8	KED
|	**Ni**	**62**	**0.095**	ug/L	0.010	11	8	22	8	KED
|	**Cu**	**63**	**0.256**	ug/L	0.021	8	34	751	9	KED
|	**Cu**	**65**	**0.234**	ug/L	0.004	1	19	342	2	KED
|	**Zn**	**66**	**33.084**	ug/L	1.015	3	36	12325	4	KED
|	**Zn**	**67**	**29.232**	ug/L	0.562	1	4	1858	2	KED
⌊	**As**	**75**	**0.182**	ug/L	0.034	18	5	39	16	KED
	Y	**89**		ug/L			210865	202459	2	Standard
	Kr	**83**		ug/L			43	46	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5801	3	KED
|	**Cd**	**111**	**0.008**	ug/L	0.008	102	2	3	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.006	1274	6	6	52	KED
⌈>	**Tb**	**159**		ug/L			480478	466298	3	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	6	115	671	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:06:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	43166	5	Standard
	Cl	**37**		ug/L			3324914	3402239	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	405812	2	Standard
|	**Cr**	**52**	**0.275**	ug/L	0.035	12	16311	20079	4	Standard
|	**Cr**	**53**	**0.251**	ug/L	0.008	3	93	562	4	Standard
⌊	**Mn**	**55**	**2.686**	ug/L	0.020	0	527	63381	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20144	1	KED
|	**Ni**	**60**	**0.073**	ug/L	0.011	14	13	79	12	KED
|	**Ni**	**62**	**0.032**	ug/L	0.038	119	8	12	45	KED
|	**Cu**	**63**	**0.215**	ug/L	0.010	4	34	610	3	KED
|	**Cu**	**65**	**0.233**	ug/L	0.024	10	19	326	8	KED
|	**Zn**	**66**	**32.752**	ug/L	0.270	0	36	11686	0	KED
|	**Zn**	**67**	**29.639**	ug/L	0.252	0	4	1805	1	KED
⌊	**As**	**75**	**0.181**	ug/L	0.013	7	5	37	5	KED
	Y	**89**		ug/L			210865	195397	1	Standard
	Kr	**83**		ug/L			43	39	22	Standard
⌈>	**In-1**	**115**		ug/L			5860	5407	5	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	293	2	1	69	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	47	6	3	30	KED
⌈>	**Tb**	**159**		ug/L			480478	454083	3	Standard
⌊	**Pb**	**208**	**0.018**	ug/L	0.001	3	115	792	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0194-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:10:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	44935	0	Standard
	Cl	**37**		ug/L			3324914	3413687	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	422486	2	Standard
|	**Cr**	**52**	**26.224**	ug/L	0.446	1	16311	457512	2	Standard
|	**Cr**	**53**	**26.167**	ug/L	0.154	0	93	51463	2	Standard
⌊	**Mn**	**55**	**29.351**	ug/L	0.192	0	527	715952	3	Standard
⌈>	**Ge**	**72**		ug/L			20993	20835	2	KED
|	**Ni**	**60**	**27.225**	ug/L	0.470	1	13	25357	3	KED
|	**Ni**	**62**	**26.437**	ug/L	0.757	2	8	4041	2	KED
|	**Cu**	**63**	**26.793**	ug/L	0.609	2	34	74371	2	KED
|	**Cu**	**65**	**27.151**	ug/L	0.331	1	19	37219	2	KED
|	**Zn**	**66**	**116.996**	ug/L	1.777	1	36	43077	0	KED
|	**Zn**	**67**	**101.333**	ug/L	1.295	1	4	6371	0	KED
⌊	**As**	**75**	**25.380**	ug/L	0.158	0	5	4717	1	KED
	Y	**89**		ug/L			210865	204387	5	Standard
	Kr	**83**		ug/L			43	43	4	Standard
⌈>	**In-1**	**115**		ug/L			5860	5640	2	KED
|	**Cd**	**111**	**25.629**	ug/L	0.682	2	2	5237	1	KED
⌊	**Cd**	**114**	**26.041**	ug/L	0.854	3	6	12925	1	KED
⌈>	**Tb**	**159**		ug/L			480478	464989	4	Standard
⌊	**Pb**	**208**	**28.426**	ug/L	0.628	2	115	1097790	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22I0052-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:16:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			31215	47332	0	Standard
Cl	37		ug/L			3324914	3394381	1	Standard
> Sc	45		ug/L			423672	552435	1	Standard
Cr	52	13.580	ug/L	0.004	0	16311	320085	1	Standard
Cr	53	13.637	ug/L	0.082	0	93	35130	1	Standard
Mn	55	236.366	ug/L	3.294	1	527	7533823	2	Standard
> Ge	72		ug/L			20993	20359	0	KED
Ni	60	16.711	ug/L	0.524	3	13	15211	2	KED
Ni	62	16.754	ug/L	0.410	2	8	2506	3	KED
Cu	63	20.630	ug/L	0.269	1	34	55958	0	KED
Cu	65	21.249	ug/L	0.423	1	19	28469	2	KED
Zn	66	81.556	ug/L	0.785	0	36	29359	1	KED
Zn	67	79.298	ug/L	2.556	3	4	4873	2	KED
As	75	2.533	ug/L	0.089	3	5	465	2	KED
Y	89		ug/L			210865	434604	1	Standard
Kr	83		ug/L			43	134	13	Standard
> In-1	115		ug/L			5860	5604	1	KED
Cd	111	0.072	ug/L	0.017	23	2	16	21	KED
Cd	114	0.094	ug/L	0.017	17	6	52	16	KED
> Tb	159		ug/L			480478	483462	3	Standard
Pb	208	13.761	ug/L	0.427	3	115	552558	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:23:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	31957	3	Standard
	Cl	**37**		ug/L			3324914	3585631	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	409489	0	Standard
|	**Cr**	**52**	**50.693**	ug/L	0.190	0	16311	842585	0	Standard
|	**Cr**	**53**	**50.544**	ug/L	0.742	1	93	96273	2	Standard
⌊	**Mn**	**55**	**51.688**	ug/L	0.528	1	527	1221587	1	Standard
⌈>	**Ge**	**72**		ug/L			20993	20128	1	KED
|	**Ni**	**60**	**50.808**	ug/L	1.186	2	13	45692	1	KED
|	**Ni**	**62**	**51.630**	ug/L	1.221	2	8	7618	1	KED
|	**Cu**	**63**	**50.907**	ug/L	0.634	1	34	136481	1	KED
|	**Cu**	**65**	**51.460**	ug/L	0.862	1	19	68124	1	KED
|	**Zn**	**66**	**52.014**	ug/L	1.795	3	36	18519	2	KED
|	**Zn**	**67**	**50.908**	ug/L	1.421	2	4	3094	1	KED
⌊	**As**	**75**	**50.147**	ug/L	1.061	2	5	8998	0	KED
	Y	**89**		ug/L			210865	198783	2	Standard
	Kr	**83**		ug/L			43	50	18	Standard
⌈>	**In-1**	**115**		ug/L			5860	5383	1	KED
|	**Cd**	**111**	**51.761**	ug/L	1.423	2	2	10094	1	KED
⌊	**Cd**	**114**	**51.677**	ug/L	0.549	1	6	24486	0	KED
⌈>	**Tb**	**159**		ug/L			480478	464608	3	Standard
⌊	**Pb**	**208**	**54.638**	ug/L	1.841	3	115	2107830	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:30:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31215	30927	3	Standard
	Cl	**37**		ug/L			3324914	3324282	1	Standard
⌈>	**Sc**	**45**		ug/L			423672	419721	2	Standard
|	**Cr**	**52**	**-0.028**	ug/L	0.018	64	16311	15685	0	Standard
|	**Cr**	**53**	**-0.005**	ug/L	0.003	61	93	81	10	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.000	12	527	611	0	Standard
⌈>	**Ge**	**72**		ug/L			20993	20536	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.008	463	13	12	55	KED
|	**Ni**	**62**	**-0.024**	ug/L	0.020	84	8	4	65	KED
|	**Cu**	**63**	**0.006**	ug/L	0.005	88	34	48	29	KED
|	**Cu**	**65**	**0.001**	ug/L	0.006	529	19	20	41	KED
|	**Zn**	**66**	**0.058**	ug/L	0.016	27	36	56	10	KED
|	**Zn**	**67**	**0.074**	ug/L	0.068	91	4	8	44	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.009	984	5	5	28	KED
	Y	**89**		ug/L			210865	198820	1	Standard
	Kr	**83**		ug/L			43	48	15	Standard
⌈>	**In-1**	**115**		ug/L			5860	5658	2	KED
|	**Cd**	**111**	**0.005**	ug/L	0.008	147	2	3	45	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.010	291	6	4	112	KED
⌈>	**Tb**	**159**		ug/L			480478	462212	3	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	6	115	255	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:35:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				33587	1	Standard
	Cl	**37**		ug/L				3318464	1	Standard
⌈>	**Sc**	**45**		ug/L				408513	1	Standard
|	**Cr**	**52**		ug/L				15747	1	Standard
|	**Cr**	**53**		ug/L				81	12	Standard
⌊	**Mn**	**55**		ug/L				555	5	Standard
⌈>	**Ge**	**72**		ug/L				19427	2	KED
|	**Ni**	**60**		ug/L				13	24	KED
|	**Ni**	**62**		ug/L				8	35	KED
|	**Cu**	**63**		ug/L				28	30	KED
|	**Cu**	**65**		ug/L				17	48	KED
|	**Zn**	**66**		ug/L				33	6	KED
|	**Zn**	**67**		ug/L				3	50	KED
⌊	**As**	**75**		ug/L				5	5	KED
	Y	**89**		ug/L				199932	0	Standard
	Kr	**83**		ug/L				55	34	Standard
⌈>	**In-1**	**115**		ug/L				5415	1	KED
|	**Cd**	**111**		ug/L				1	132	KED
⌊	**Cd**	**114**		ug/L				1	100	KED
⌈>	**Tb**	**159**		ug/L				457409	3	Standard
⌊	**Pb**	**208**		ug/L				92	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:39:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30970	3	Standard
	Cl	**37**		ug/L			3318464	3596620	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	394965	1	Standard
|	**Cr**	**52**	**51.509**	ug/L	0.397	0	15747	825564	1	Standard
|	**Cr**	**53**	**51.719**	ug/L	0.617	1	81	94996	0	Standard
⌊	**Mn**	**55**	**51.863**	ug/L	0.740	1	555	1182141	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20111	0	KED
|	**Ni**	**60**	**51.495**	ug/L	0.793	1	13	46277	0	KED
|	**Ni**	**62**	**49.693**	ug/L	1.333	2	8	7328	2	KED
|	**Cu**	**63**	**49.772**	ug/L	0.361	0	28	133322	0	KED
|	**Cu**	**65**	**51.551**	ug/L	0.455	0	17	68194	0	KED
|	**Zn**	**66**	**49.789**	ug/L	0.975	1	33	17718	2	KED
|	**Zn**	**67**	**50.902**	ug/L	2.069	4	3	3091	3	KED
⌊	**As**	**75**	**49.446**	ug/L	0.718	1	5	8866	0	KED
	Y	**89**		ug/L			199932	189958	1	Standard
	Kr	**83**		ug/L			55	65	3	Standard
⌈>	**In-1**	**115**		ug/L			5415	5403	2	KED
|	**Cd**	**111**	**50.937**	ug/L	1.476	2	1	9967	0	KED
⌊	**Cd**	**114**	**51.669**	ug/L	1.325	2	1	24561	0	KED
⌈>	**Tb**	**159**		ug/L			457409	448132	1	Standard
⌊	**Pb**	**208**	**55.044**	ug/L	1.318	2	92	2049277	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:46:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31277	1	Standard
	Cl	**37**		ug/L			3318464	3347711	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	407725	2	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.028	283	15747	15562	4	Standard
|	**Cr**	**53**	**0.006**	ug/L	0.003	57	81	92	8	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	31	555	639	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	20045	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.012	990	13	12	82	KED
|	**Ni**	**62**	**-0.023**	ug/L	0.027	115	8	5	78	KED
|	**Cu**	**63**	**0.010**	ug/L	0.005	52	28	57	26	KED
|	**Cu**	**65**	**0.007**	ug/L	0.014	195	17	27	68	KED
|	**Zn**	**66**	**0.065**	ug/L	0.014	21	33	57	9	KED
|	**Zn**	**67**	**0.177**	ug/L	0.113	63	3	14	45	KED
⌊	**As**	**75**	**0.005**	ug/L	0.014	266	5	6	40	KED
	Y	**89**		ug/L			199932	200193	1	Standard
	Kr	**83**		ug/L			55	40	26	Standard
⌈>	**In-1**	**115**		ug/L			5415	5910	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.003	38	1	0	86	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	663	1	2	96	KED
⌈>	**Tb**	**159**		ug/L			457409	454753	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	15	92	238	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:51:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46306	2	Standard
	Cl	**37**		ug/L			3318464	3350138	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	427778	3	Standard
|	**Cr**	**52**	**0.369**	ug/L	0.027	7	15747	22773	1	Standard
|	**Cr**	**53**	**0.309**	ug/L	0.016	5	81	697	1	Standard
⌊	**Mn**	**55**	**3.057**	ug/L	0.038	1	555	76004	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20924	1	KED
|	**Ni**	**60**	**0.076**	ug/L	0.011	14	13	85	11	KED
|	**Ni**	**62**	**0.083**	ug/L	0.025	29	8	21	18	KED
|	**Cu**	**63**	**0.332**	ug/L	0.020	5	28	956	5	KED
|	**Cu**	**65**	**0.354**	ug/L	0.027	7	17	506	7	KED
|	**Zn**	**66**	**38.381**	ug/L	1.158	3	33	14219	3	KED
|	**Zn**	**67**	**32.496**	ug/L	0.686	2	3	2054	1	KED
⌊	**As**	**75**	**0.233**	ug/L	0.008	3	5	48	2	KED
	Y	**89**		ug/L			199932	208192	3	Standard
	Kr	**83**		ug/L			55	46	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5647	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.009	1856	1	1	100	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.017	155	1	7	115	KED
⌈>	**Tb**	**159**		ug/L			457409	477111	5	Standard
⌊	**Pb**	**208**	**0.077**	ug/L	0.005	6	92	3142	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-03
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 05:55:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46846	4	Standard
	Cl	**37**		ug/L			3318464	3317272	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	432261	2	Standard
|	**Cr**	**52**	**0.379**	ug/L	0.031	8	15747	23190	1	Standard
|	**Cr**	**53**	**0.309**	ug/L	0.011	3	81	706	3	Standard
⌊	**Mn**	**55**	**1.417**	ug/L	0.041	2	555	35926	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	19961	1	KED
|	**Ni**	**60**	**0.170**	ug/L	0.007	3	13	165	2	KED
|	**Ni**	**62**	**0.129**	ug/L	0.039	30	8	27	21	KED
|	**Cu**	**63**	**0.436**	ug/L	0.019	4	28	1188	2	KED
|	**Cu**	**65**	**0.457**	ug/L	0.017	3	17	617	1	KED
|	**Zn**	**66**	**13.524**	ug/L	0.232	1	33	4802	2	KED
|	**Zn**	**67**	**11.651**	ug/L	0.589	5	3	705	5	KED
⌊	**As**	**75**	**0.211**	ug/L	0.039	18	5	42	14	KED
	Y	**89**		ug/L			199932	208898	2	Standard
	Kr	**83**		ug/L			55	55	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5739	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.009	92	1	4	48	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	145	1	3	57	KED
⌈>	**Tb**	**159**		ug/L			457409	477446	5	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.002	8	92	885	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-05
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:00:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	44371	1	Standard
	Cl	**37**		ug/L			3318464	3429934	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	428994	1	Standard
|	**Cr**	**52**	**0.417**	ug/L	0.019	4	15747	23668	1	Standard
|	**Cr**	**53**	**0.383**	ug/L	0.006	1	81	848	2	Standard
⌊	**Mn**	**55**	**3.518**	ug/L	0.061	1	555	87646	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20983	1	KED
|	**Ni**	**60**	**0.130**	ug/L	0.028	21	13	136	20	KED
|	**Ni**	**62**	**0.099**	ug/L	0.017	16	8	24	12	KED
|	**Cu**	**63**	**0.275**	ug/L	0.035	12	28	800	11	KED
|	**Cu**	**65**	**0.272**	ug/L	0.012	4	17	393	4	KED
|	**Zn**	**66**	**70.741**	ug/L	1.695	2	33	26245	1	KED
|	**Zn**	**67**	**60.426**	ug/L	1.594	2	3	3827	2	KED
⌊	**As**	**75**	**0.153**	ug/L	0.036	23	5	34	19	KED
	Y	**89**		ug/L			199932	208047	1	Standard
	Kr	**83**		ug/L			55	48	8	Standard
⌈>	**In-1**	**115**		ug/L			5415	5847	3	KED
|	**Cd**	**111**	**0.014**	ug/L	0.010	68	1	5	39	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.010	129	1	6	90	KED
⌈>	**Tb**	**159**		ug/L			457409	476371	3	Standard
⌊	**Pb**	**208**	**0.042**	ug/L	0.003	6	92	1751	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-07
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:04:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	44292	0	Standard
	Cl	**37**		ug/L			3318464	3326408	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	417133	2	Standard
|	**Cr**	**52**	**0.389**	ug/L	0.034	8	15747	22542	1	Standard
|	**Cr**	**53**	**0.356**	ug/L	0.018	5	81	773	4	Standard
⌊	**Mn**	**55**	**1.427**	ug/L	0.011	0	555	34909	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20974	1	KED
|	**Ni**	**60**	**0.234**	ug/L	0.034	14	13	233	12	KED
|	**Ni**	**62**	**0.182**	ug/L	0.022	12	8	36	7	KED
|	**Cu**	**63**	**0.647**	ug/L	0.016	2	28	1837	1	KED
|	**Cu**	**65**	**0.645**	ug/L	0.013	2	17	907	0	KED
|	**Zn**	**66**	**6.556**	ug/L	0.285	4	33	2463	2	KED
|	**Zn**	**67**	**5.972**	ug/L	0.570	9	3	381	8	KED
⌊	**As**	**75**	**0.237**	ug/L	0.013	5	5	49	4	KED
	Y	**89**		ug/L			199932	208530	1	Standard
	Kr	**83**		ug/L			55	35	40	Standard
⌈>	**In-1**	**115**		ug/L			5415	5857	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.010	465	1	1	124	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	141	1	3	70	KED
⌈>	**Tb**	**159**		ug/L			457409	465131	3	Standard
⌊	**Pb**	**208**	**0.024**	ug/L	0.001	3	92	1003	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-09
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:08:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	42517	1	Standard
	Cl	**37**		ug/L			3318464	3268332	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	413982	2	Standard
|	**Cr**	**52**	**0.391**	ug/L	0.010	2	15747	22402	2	Standard
|	**Cr**	**53**	**0.378**	ug/L	0.004	1	81	810	2	Standard
⌊	**Mn**	**55**	**3.774**	ug/L	0.036	0	555	90700	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20046	1	KED
|	**Ni**	**60**	**0.089**	ug/L	0.013	14	13	93	13	KED
|	**Ni**	**62**	**0.050**	ug/L	0.027	53	8	15	24	KED
|	**Cu**	**63**	**0.268**	ug/L	0.015	5	28	743	3	KED
|	**Cu**	**65**	**0.269**	ug/L	0.023	8	17	372	7	KED
|	**Zn**	**66**	**52.618**	ug/L	1.257	2	33	18658	1	KED
|	**Zn**	**67**	**47.176**	ug/L	1.333	2	3	2857	4	KED
⌊	**As**	**75**	**0.166**	ug/L	0.017	10	5	34	10	KED
	Y	**89**		ug/L			199932	204081	4	Standard
	Kr	**83**		ug/L			55	39	7	Standard
⌈>	**In-1**	**115**		ug/L			5415	5718	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.007	326	1	1	91	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.007	107	1	5	66	KED
⌈>	**Tb**	**159**		ug/L			457409	454421	4	Standard
⌊	**Pb**	**208**	**0.043**	ug/L	0.002	3	92	1718	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0009-11
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:13:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	45620	3	Standard
	Cl	**37**		ug/L			3318464	3260661	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	423807	2	Standard
|	**Cr**	**52**	**0.383**	ug/L	0.051	13	15747	22795	2	Standard
|	**Cr**	**53**	**0.354**	ug/L	0.030	8	81	781	4	Standard
⌊	**Mn**	**55**	**1.233**	ug/L	0.013	1	555	30721	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20930	5	KED
|	**Ni**	**60**	**0.134**	ug/L	0.015	11	13	139	10	KED
|	**Ni**	**62**	**0.124**	ug/L	0.033	26	8	27	20	KED
|	**Cu**	**63**	**0.382**	ug/L	0.016	4	28	1092	2	KED
|	**Cu**	**65**	**0.404**	ug/L	0.017	4	17	574	9	KED
|	**Zn**	**66**	**8.639**	ug/L	0.140	1	33	3227	3	KED
|	**Zn**	**67**	**7.793**	ug/L	0.585	7	3	495	5	KED
⌊	**As**	**75**	**0.173**	ug/L	0.024	13	5	37	10	KED
	Y	**89**		ug/L			199932	205177	2	Standard
	Kr	**83**		ug/L			55	42	38	Standard
⌈>	**In-1**	**115**		ug/L			5415	5979	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	109	1	1	34	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	62	1	0	154	KED
⌈>	**Tb**	**159**		ug/L			457409	474826	3	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.001	6	92	900	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0612-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:17:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	57890	1	Standard
	Cl	37		ug/L			3318464	3606158	2	Standard
⌈>	Sc	45		ug/L			408513	473375	2	Standard
|	Cr	52	1.614	ug/L	0.067	4	15747	48662	0	Standard
|	Cr	53	1.814	ug/L	0.025	1	81	4083	2	Standard
⌊	Mn	55	235.781	ug/L	4.900	2	555	6437196	0	Standard
⌈>	Ge	72		ug/L			19427	20609	0	KED
|	Ni	60	3.552	ug/L	0.325	9	13	3285	9	KED
|	Ni	62	3.715	ug/L	0.144	3	8	569	3	KED
|	Cu	63	4.040	ug/L	0.058	1	28	11115	0	KED
|	Cu	65	4.237	ug/L	0.092	2	17	5759	2	KED
|	Zn	66	7.227	ug/L	0.044	0	33	2666	1	KED
|	Zn	67	9.392	ug/L	0.362	3	3	587	4	KED
⌊	As	75	0.432	ug/L	0.039	8	5	84	8	KED
	Y	89		ug/L			199932	224064	2	Standard
	Kr	83		ug/L			55	41	19	Standard
⌈>	In-1	115		ug/L			5415	5487	2	KED
|	Cd	111	0.280	ug/L	0.029	10	1	57	8	KED
⌊	Cd	114	0.268	ug/L	0.046	17	1	131	15	KED
⌈>	Tb	159		ug/L			457409	486470	3	Standard
⌊	Pb	208	0.683	ug/L	0.022	3	92	27689	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:22:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	54314	0	Standard
	Cl	37		ug/L			3318464	3693854	0	Standard
⌈>	Sc	45		ug/L			408513	458604	2	Standard
|	Cr	52	1.555	ug/L	0.067	4	15747	46059	2	Standard
|	Cr	53	1.708	ug/L	0.052	3	81	3728	0	Standard
⌊	Mn	55	229.361	ug/L	5.344	2	555	6066297	1	Standard
⌈>	Ge	72		ug/L			19427	19572	2	KED
|	Ni	60	3.456	ug/L	0.068	1	13	3035	2	KED
|	Ni	62	3.407	ug/L	0.142	4	8	496	3	KED
|	Cu	63	4.107	ug/L	0.103	2	28	10729	0	KED
|	Cu	65	4.106	ug/L	0.126	3	17	5303	4	KED
|	Zn	66	6.959	ug/L	0.240	3	33	2439	4	KED
|	Zn	67	9.027	ug/L	0.310	3	3	536	1	KED
⌊	As	75	0.454	ug/L	0.019	4	5	84	4	KED
	Y	89		ug/L			199932	208496	2	Standard
	Kr	83		ug/L			55	49	20	Standard
⌈>	In-1	115		ug/L			5415	5597	1	KED
|	Cd	111	0.310	ug/L	0.018	5	1	64	6	KED
⌊	Cd	114	0.283	ug/L	0.017	5	1	141	6	KED
⌈>	Tb	159		ug/L			457409	466932	4	Standard
⌊	Pb	208	0.661	ug/L	0.018	2	92	25707	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0157-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:28:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			33587	48512	2	Standard
	Cl		37		ug/L			3318464	3728660	0	Standard
⌈>	Sc		45		ug/L			408513	452065	2	Standard
|	Cr		52	25.566	ug/L	0.743	2	15747	477531	0	Standard
|	Cr		53	25.252	ug/L	0.699	2	81	53110	0	Standard
⌊	Mn	STL	55	253.723	ug/L	2.833	1	555	6616659	2	Standard
⌈>	Ge		72		ug/L			19427	19338	1	KED
|	Ni		60	31.412	ug/L	0.405	1	13	27147	0	KED
|	Ni		62	31.206	ug/L	0.733	2	8	4429	3	KED
|	Cu		63	30.265	ug/L	0.252	0	28	77959	0	KED
|	Cu		65	30.490	ug/L	0.053	0	17	38789	1	KED
|	Zn		66	84.055	ug/L	2.072	2	33	28736	2	KED
|	Zn		67	81.619	ug/L	1.242	1	3	4763	0	KED
⌊	As		75	25.683	ug/L	0.180	0	5	4430	0	KED
	Y		89		ug/L			199932	212169	0	Standard
	Kr		83		ug/L			55	62	16	Standard
⌈>	In-1		115		ug/L			5415	5409	1	KED
|	Cd		111	25.302	ug/L	0.634	2	1	4958	0	KED
⌊	Cd		114	25.162	ug/L	0.568	2	1	11977	0	KED
⌈>	Tb		159		ug/L			457409	465004	3	Standard
⌊	Pb		208	28.627	ug/L	1.065	3	92	1105250	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:32:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31245	3	Standard
	Cl	**37**		ug/L			3318464	3504213	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	393571	6	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.015	71	15747	15493	4	Standard
|	**Cr**	**53**	**0.024**	ug/L	0.012	50	81	120	13	Standard
⌊	**Mn**	**55**	**0.021**	ug/L	0.005	21	555	1014	12	Standard
⌈>	**Ge**	**72**		ug/L			19427	20139	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	57	13	8	32	KED
|	**Ni**	**62**	**-0.019**	ug/L	0.001	2	8	5	0	KED
|	**Cu**	**63**	**0.005**	ug/L	0.000	4	28	41	0	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	80	17	13	20	KED
|	**Zn**	**66**	**0.009**	ug/L	0.004	44	33	38	5	KED
|	**Zn**	**67**	**-0.002**	ug/L	0.054	2197	3	3	86	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.008	170	5	4	32	KED
	Y	**89**		ug/L			199932	191989	2	Standard
	Kr	**83**		ug/L			55	42	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5524	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	168	1	1	34	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	144	1	1	90	KED
⌈>	**Tb**	**159**		ug/L			457409	446015	6	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	17	92	279	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:36:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	33647	1	Standard
	Cl	**37**		ug/L			3318464	3707357	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	435452	1	Standard
⎢	**Cr**	**52**	**50.081**	ug/L	0.953	1	15747	885200	0	Standard
⎢	**Cr**	**53**	**50.410**	ug/L	0.762	1	81	102075	1	Standard
⎣	**Mn**	**55**	**51.436**	ug/L	0.123	0	555	1292705	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	20607	4	KED
⎢	**Ni**	**60**	**51.134**	ug/L	0.755	1	13	47074	3	KED
⎢	**Ni**	**62**	**51.624**	ug/L	1.291	2	8	7796	2	KED
⎢	**Cu**	**63**	**51.331**	ug/L	0.752	1	28	140827	3	KED
⎢	**Cu**	**65**	**51.481**	ug/L	1.532	2	17	69742	3	KED
⎢	**Zn**	**66**	**51.087**	ug/L	0.927	1	33	18618	2	KED
⎢	**Zn**	**67**	**51.512**	ug/L	2.299	4	3	3201	1	KED
⎣	**As**	**75**	**50.374**	ug/L	0.634	1	5	9252	3	KED
	Y	**89**		ug/L			199932	211392	2	Standard
	Kr	**83**		ug/L			55	59	8	Standard
⎡>	**In-1**	**115**		ug/L			5415	5800	1	KED
⎢	**Cd**	**111**	**51.708**	ug/L	0.765	1	1	10866	0	KED
⎣	**Cd**	**114**	**51.413**	ug/L	0.327	0	1	26249	2	KED
⎡>	**Tb**	**159**		ug/L			457409	489522	3	Standard
⎣	**Pb**	**208**	**54.269**	ug/L	1.446	2	92	2206418	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:43:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30478	2	Standard
	Cl	**37**		ug/L			3318464	3570448	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	400324	2	Standard
|	**Cr**	**52**	**0.018**	ug/L	0.023	132	15747	15709	2	Standard
|	**Cr**	**53**	**0.009**	ug/L	0.004	38	81	96	6	Standard
⌊	**Mn**	**55**	**0.005**	ug/L	0.004	70	555	666	13	Standard
⌈>	**Ge**	**72**		ug/L			19427	20049	2	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	2477	13	13	28	KED
|	**Ni**	**62**	**-0.028**	ug/L	0.014	51	8	4	49	KED
|	**Cu**	**63**	**0.005**	ug/L	0.002	45	28	43	13	KED
|	**Cu**	**65**	**0.007**	ug/L	0.004	61	17	26	21	KED
|	**Zn**	**66**	**0.094**	ug/L	0.028	29	33	67	13	KED
|	**Zn**	**67**	**0.082**	ug/L	0.102	124	3	8	68	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.010	4987	5	5	36	KED
	Y	**89**		ug/L			199932	193790	1	Standard
	Kr	**83**		ug/L			55	43	24	Standard
⌈>	**In-1**	**115**		ug/L			5415	5596	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	79	1	1	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.004	2086	1	1	107	KED
⌈>	**Tb**	**159**		ug/L			457409	448177	4	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.004	62	92	317	41	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0010-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:48:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43568	5	Standard
	Cl	**37**		ug/L			3318464	3501110	4	Standard
⌈>	**Sc**	**45**		ug/L			408513	394796	11	Standard
|	**Cr**	**52**	**0.233**	ug/L	0.079	34	15747	18788	4	Standard
|	**Cr**	**53**	**0.250**	ug/L	0.025	9	81	533	3	Standard
⌊	**Mn**	**55**	**2.655**	ug/L	0.126	4	555	60792	6	Standard
⌈>	**Ge**	**72**		ug/L			19427	19575	1	KED
|	**Ni**	**60**	**0.144**	ug/L	0.004	2	13	139	2	KED
|	**Ni**	**62**	**0.101**	ug/L	0.022	21	8	22	14	KED
|	**Cu**	**63**	**1.064**	ug/L	0.041	3	28	2803	4	KED
|	**Cu**	**65**	**1.064**	ug/L	0.043	4	17	1386	4	KED
|	**Zn**	**66**	**17.834**	ug/L	0.454	2	33	6198	1	KED
|	**Zn**	**67**	**15.570**	ug/L	0.963	6	3	923	6	KED
⌊	**As**	**75**	**0.094**	ug/L	0.015	15	5	21	11	KED
	Y	**89**		ug/L			199932	194758	8	Standard
	Kr	**83**		ug/L			55	43	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	5410	1	KED
|	**Cd**	**111**	**0.031**	ug/L	0.017	54	1	7	42	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.010	30	1	17	27	KED
⌈>	**Tb**	**159**		ug/L			457409	441334	12	Standard
⌊	**Pb**	**208**	**0.124**	ug/L	0.009	6	92	4600	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0013-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:52:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40764	4	Standard
	Cl	**37**		ug/L			3318464	4278838	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	442684	2	Standard
|	**Cr**	**52**	**1.525**	ug/L	0.047	3	15747	43948	0	Standard
|	**Cr**	**53**	**2.149**	ug/L	0.050	2	81	4507	1	Standard
⌊	**Mn**	**55**	**7.713**	ug/L	0.072	0	555	197603	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20179	1	KED
|	**Ni**	**60**	**0.875**	ug/L	0.042	4	13	802	3	KED
|	**Ni**	**62**	**0.835**	ug/L	0.044	5	8	132	5	KED
|	**Cu**	**63**	**4.024**	ug/L	0.175	4	28	10835	2	KED
|	**Cu**	**65**	**4.146**	ug/L	0.092	2	17	5519	2	KED
|	**Zn**	**66**	**35.740**	ug/L	1.453	4	33	12767	3	KED
|	**Zn**	**67**	**34.458**	ug/L	1.173	3	3	2100	1	KED
⌊	**As**	**75**	**0.583**	ug/L	0.019	3	5	110	4	KED
	Y	**89**		ug/L			199932	212904	0	Standard
	Kr	**83**		ug/L			55	51	25	Standard
⌈>	**In-1**	**115**		ug/L			5415	5491	0	KED
|	**Cd**	**111**	**0.037**	ug/L	0.010	28	1	9	21	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.024	56	1	22	51	KED
⌈>	**Tb**	**159**		ug/L			457409	480657	4	Standard
⌊	**Pb**	**208**	**1.292**	ug/L	0.059	4	92	51630	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0016-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, January 10, 2023 06:56:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	112973	3	Standard
	Cl	**37**		ug/L			3318464	3436786	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	438051	2	Standard
|	**Cr**	**52**	**0.757**	ug/L	0.017	2	15747	30093	2	Standard
|	**Cr**	**53**	**0.633**	ug/L	0.018	2	81	1375	3	Standard
⌊	**Mn**	**55**	**137.991**	ug/L	2.605	1	555	3486652	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21068	2	KED
|	**Ni**	**60**	**22.080**	ug/L	0.986	4	13	20782	2	KED
|	**Ni**	**62**	**21.694**	ug/L	0.462	2	8	3356	2	KED
|	**Cu**	**63**	**6.877**	ug/L	0.269	3	28	19311	1	KED
|	**Cu**	**65**	**6.946**	ug/L	0.280	4	17	9635	1	KED
|	**Zn**	**66**	**2.584**	ug/L	0.087	3	33	997	2	KED
|	**Zn**	**67**	**2.439**	ug/L	0.281	11	3	159	13	KED
⌊	**As**	**75**	**0.432**	ug/L	0.023	5	5	86	2	KED
	Y	**89**		ug/L			199932	204220	0	Standard
	Kr	**83**		ug/L			55	43	19	Standard
⌈>	**In-1**	**115**		ug/L			5415	5520	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.010	160	1	3	62	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	136	1	4	82	KED
⌈>	**Tb**	**159**		ug/L			457409	463321	4	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.002	10	92	930	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0016-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:01:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	62082	1	Standard
	Cl	**37**		ug/L			3318464	3812204	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	426637	2	Standard
|	**Cr**	**52**	**1.955**	ug/L	0.045	2	15747	49656	2	Standard
|	**Cr**	**53**	**2.166**	ug/L	0.032	1	81	4377	2	Standard
⌊	**Mn**	**55**	**244.340**	ug/L	2.654	1	555	6013502	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21093	1	KED
|	**Ni**	**60**	**3.642**	ug/L	0.207	5	13	3443	3	KED
|	**Ni**	**62**	**3.751**	ug/L	0.088	2	8	588	3	KED
|	**Cu**	**63**	**17.431**	ug/L	0.298	1	28	48980	0	KED
|	**Cu**	**65**	**17.903**	ug/L	0.199	1	17	24848	1	KED
|	**Zn**	**66**	**1001.272**	ug/L	14.385	1	33	372960	0	KED
|	**Zn**	**67**	**872.911**	ug/L	18.856	2	3	55528	1	KED
⌊	**As**	**75**	**0.516**	ug/L	0.018	3	5	102	1	KED
	Y	**89**		ug/L			199932	212826	2	Standard
	Kr	**83**		ug/L			55	54	11	Standard
⌈>	**In-1**	**115**		ug/L			5415	5979	0	KED
|	**Cd**	**111**	**0.122**	ug/L	0.025	20	1	28	20	KED
⌊	**Cd**	**114**	**0.119**	ug/L	0.007	5	1	64	4	KED
⌈>	**Tb**	**159**		ug/L			457409	470457	4	Standard
⌊	**Pb**	**208**	**1.411**	ug/L	0.063	4	92	55174	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0522-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:05:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	41811	0	Standard
	Cl	**37**		ug/L			3318464	3669736	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	422121	3	Standard
|	**Cr**	**52**	**1.264**	ug/L	0.080	6	15747	37501	0	Standard
|	**Cr**	**53**	**1.465**	ug/L	0.055	3	81	2956	0	Standard
⌊	**Mn**	**55**	**14.832**	ug/L	0.130	0	555	361686	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20665	1	KED
|	**Ni**	**60**	**0.888**	ug/L	0.101	11	13	833	10	KED
|	**Ni**	**62**	**0.865**	ug/L	0.056	6	8	139	6	KED
|	**Cu**	**63**	**5.761**	ug/L	0.141	2	28	15883	2	KED
|	**Cu**	**65**	**5.782**	ug/L	0.155	2	17	7873	1	KED
|	**Zn**	**66**	**82.513**	ug/L	3.369	4	33	30136	2	KED
|	**Zn**	**67**	**75.416**	ug/L	2.102	2	3	4703	1	KED
⌊	**As**	**75**	**0.226**	ug/L	0.050	21	5	46	18	KED
	Y	**89**		ug/L			199932	205975	1	Standard
	Kr	**83**		ug/L			55	49	37	Standard
⌈>	**In-1**	**115**		ug/L			5415	5674	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.007	14	1	12	11	KED
⌊	**Cd**	**114**	**0.047**	ug/L	0.004	9	1	25	7	KED
⌈>	**Tb**	**159**		ug/L			457409	471462	4	Standard
⌊	**Pb**	**208**	**1.899**	ug/L	0.082	4	92	74386	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0536-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:10:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	73362	1	Standard
	Cl	**37**		ug/L			3318464	3547350	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	470934	2	Standard
|	**Cr**	**52**	**2.684**	ug/L	0.054	2	15747	68510	3	Standard
|	**Cr**	**53**	**2.756**	ug/L	0.007	0	81	6125	2	Standard
⌊	**Mn**	**55**	**61.284**	ug/L	1.402	2	555	1665396	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	20630	2	KED
|	**Ni**	**60**	**1.355**	ug/L	0.091	6	13	1263	7	KED
|	**Ni**	**62**	**1.282**	ug/L	0.068	5	8	202	5	KED
|	**Cu**	**63**	**12.971**	ug/L	0.255	1	28	35655	0	KED
|	**Cu**	**65**	**12.556**	ug/L	0.187	1	17	17054	3	KED
|	**Zn**	**66**	**378.690**	ug/L	9.701	2	33	137965	1	KED
|	**Zn**	**67**	**338.156**	ug/L	1.487	0	3	21045	1	KED
⌊	**As**	**75**	**2.786**	ug/L	0.023	0	5	517	1	KED
	Y	**89**		ug/L			199932	234872	2	Standard
	Kr	**83**		ug/L			55	46	28	Standard
⌈>	**In-1**	**115**		ug/L			5415	5776	2	KED
|	**Cd**	**111**	**0.177**	ug/L	0.017	9	1	39	11	KED
⌊	**Cd**	**114**	**0.169**	ug/L	0.030	17	1	87	17	KED
⌈>	**Tb**	**159**		ug/L			457409	489149	4	Standard
⌊	**Pb**	**208**	**2.696**	ug/L	0.105	3	92	109586	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0536-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:14:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	72363	3	Standard
	Cl	**37**		ug/L			3318464	44785837	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	359597	2	Standard
|	**Cr**	**52**	**3.344**	ug/L	0.117	3	15747	61729	1	Standard
|	**Cr**	**53**	**23.770**	ug/L	0.726	3	81	39771	0	Standard
⌊	**Mn**	**55**	**92.855**	ug/L	2.112	2	555	1926060	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	15011	1	KED
|	**Ni**	**60**	**2.392**	ug/L	0.089	3	13	1614	3	KED
|	**Ni**	**62**	**3.682**	ug/L	0.185	5	8	411	6	KED
|	**Cu**	**63**	**10.188**	ug/L	0.137	1	28	20384	0	KED
|	**Cu**	**65**	**10.045**	ug/L	0.129	1	17	9928	1	KED
|	**Zn**	**66**	**280.800**	ug/L	1.862	0	33	74465	0	KED
|	**Zn**	**67**	**249.620**	ug/L	5.261	2	3	11303	0	KED
⌊	**As**	**75**	**1.175**	ug/L	0.026	2	5	161	0	KED
	Y	**89**		ug/L			199932	184503	1	Standard
	Kr	**83**		ug/L			55	2614	2	Standard
⌈>	**In-1**	**115**		ug/L			5415	4193	1	KED
|	**Cd**	**111**	**0.313**	ug/L	0.094	30	1	48	27	KED
⌊	**Cd**	**114**	**0.206**	ug/L	0.047	23	1	77	21	KED
⌈>	**Tb**	**159**		ug/L			457409	427012	2	Standard
⌊	**Pb**	**208**	**3.212**	ug/L	0.059	1	92	114017	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-DUP1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, January 10, 2023 07:18:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46050	5	Standard
	Cl	**37**		ug/L			3318464	9472557	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	435361	1	Standard
|	**Cr**	**52**	**17.479**	ug/L	0.342	1	15747	319825	0	Standard
|	**Cr**	**53**	**24.854**	ug/L	0.557	2	81	50357	0	Standard
⌊	**Mn**	**55**	**5.347**	ug/L	0.027	0	555	134867	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20069	1	KED
|	**Ni**	**60**	**2.259**	ug/L	0.040	1	13	2038	0	KED
|	**Ni**	**62**	**2.565**	ug/L	0.192	7	8	385	6	KED
|	**Cu**	**63**	**24.786**	ug/L	0.410	1	28	66263	1	KED
|	**Cu**	**65**	**25.388**	ug/L	0.459	1	17	33518	0	KED
|	**Zn**	**66**	**28.456**	ug/L	0.652	2	33	10118	0	KED
|	**Zn**	**67**	**24.653**	ug/L	0.449	1	3	1496	3	KED
⌊	**As**	**75**	**0.335**	ug/L	0.028	8	5	65	7	KED
	Y	**89**		ug/L			199932	200814	0	Standard
	Kr	**83**		ug/L			55	66	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5541	2	KED
|	**Cd**	**111**	**0.149**	ug/L	0.051	34	1	31	29	KED
⌊	**Cd**	**114**	**0.164**	ug/L	0.030	18	1	81	14	KED
⌈>	**Tb**	**159**		ug/L			457409	486106	3	Standard
⌊	**Pb**	**208**	**0.426**	ug/L	0.016	3	92	17305	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0187-MS1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, January 10, 2023 07:23:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43978	1	Standard
	Cl	**37**		ug/L			3318464	9366230	4	Standard
⌈>	**Sc**	**45**		ug/L			408513	443408	1	Standard
|	**Cr**	**52**	**42.648**	ug/L	0.410	0	15747	770251	0	Standard
|	**Cr**	**53**	**46.223**	ug/L	0.694	1	81	95321	0	Standard
⌊	**Mn**	**55**	**29.447**	ug/L	0.709	2	555	753736	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20923	1	KED
|	**Ni**	**60**	**28.103**	ug/L	0.049	0	13	26283	1	KED
|	**Ni**	**62**	**28.328**	ug/L	1.230	4	8	4351	5	KED
|	**Cu**	**63**	**50.240**	ug/L	0.859	1	28	139981	0	KED
|	**Cu**	**65**	**51.238**	ug/L	1.188	2	17	70506	2	KED
|	**Zn**	**66**	**103.825**	ug/L	0.413	0	33	38400	1	KED
|	**Zn**	**67**	**93.942**	ug/L	0.765	0	3	5933	2	KED
⌊	**As**	**75**	**26.513**	ug/L	0.322	1	5	4948	1	KED
	Y	**89**		ug/L			199932	207839	2	Standard
	Kr	**83**		ug/L			55	124	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	5581	0	KED
|	**Cd**	**111**	**24.586**	ug/L	0.446	1	1	4973	1	KED
⌊	**Cd**	**114**	**24.953**	ug/L	0.544	2	1	12260	2	KED
⌈>	**Tb**	**159**		ug/L			457409	491432	3	Standard
⌊	**Pb**	**208**	**24.910**	ug/L	0.610	2	92	1016845	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:28:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32672	1	Standard
	Cl	**37**		ug/L			3318464	3853976	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	430854	1	Standard
|	**Cr**	**52**	**0.085**	ug/L	0.023	26	15747	18067	0	Standard
|	**Cr**	**53**	**0.678**	ug/L	0.020	2	81	1442	4	Standard
⌊	**Mn**	**55**	**0.011**	ug/L	0.001	5	555	868	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21760	0	KED
|	**Ni**	**60**	**-0.012**	ug/L	0.001	9	13	3	34	KED
|	**Ni**	**62**	**0.010**	ug/L	0.014	142	8	10	20	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	35	28	55	15	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	98	17	24	19	KED
|	**Zn**	**66**	**0.019**	ug/L	0.016	81	33	45	13	KED
|	**Zn**	**67**	**0.090**	ug/L	0.044	49	3	10	28	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.012	766	5	5	41	KED
	Y	**89**		ug/L			199932	208753	1	Standard
	Kr	**83**		ug/L			55	52	20	Standard
⌈>	**In-1**	**115**		ug/L			5415	5908	3	KED
|	**Cd**	**111**	**0.005**	ug/L	0.014	282	1	3	96	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	800	1	2	120	KED
⌈>	**Tb**	**159**		ug/L			457409	488977	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	18	92	252	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:32:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32829	2	Standard
	Cl	**37**		ug/L			3318464	3828910	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	436149	1	Standard
⎢	**Cr**	**52**	**51.140**	ug/L	0.501	0	15747	905169	0	Standard
⎢	**Cr**	**53**	**51.343**	ug/L	0.769	1	81	104141	1	Standard
⎣	**Mn**	**55**	**52.117**	ug/L	0.697	1	555	1311988	2	Standard
⎡>	**Ge**	**72**		ug/L			19427	21735	0	KED
⎢	**Ni**	**60**	**51.373**	ug/L	0.445	0	13	49899	0	KED
⎢	**Ni**	**62**	**49.701**	ug/L	0.941	1	8	7922	1	KED
⎢	**Cu**	**63**	**51.021**	ug/L	0.847	1	28	147707	1	KED
⎢	**Cu**	**65**	**50.777**	ug/L	0.663	1	17	72594	1	KED
⎢	**Zn**	**66**	**51.553**	ug/L	0.870	1	33	19827	1	KED
⎢	**Zn**	**67**	**51.114**	ug/L	0.391	0	3	3355	0	KED
⎣	**As**	**75**	**51.747**	ug/L	0.321	0	5	10028	0	KED
	Y	**89**		ug/L			199932	216510	5	Standard
	Kr	**83**		ug/L			55	43	15	Standard
⎡>	**In-1**	**115**		ug/L			5415	5938	1	KED
⎢	**Cd**	**111**	**50.998**	ug/L	1.121	2	1	10972	1	KED
⎣	**Cd**	**114**	**52.391**	ug/L	1.022	1	1	27378	0	KED
⎡>	**Tb**	**159**		ug/L			457409	499124	3	Standard
⎣	**Pb**	**208**	**51.954**	ug/L	1.190	2	92	2154016	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:39:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	29955	2	Standard
	Cl	**37**		ug/L			3318464	3570965	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	408860	0	Standard
|	**Cr**	**52**	**0.054**	ug/L	0.022	40	15747	16648	3	Standard
|	**Cr**	**53**	**0.267**	ug/L	0.010	3	81	587	2	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.002	26	555	699	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	20392	1	KED
|	**Ni**	**60**	**0.014**	ug/L	0.020	143	13	26	68	KED
|	**Ni**	**62**	**0.015**	ug/L	0.054	365	8	10	73	KED
|	**Cu**	**63**	**0.028**	ug/L	0.031	110	28	105	79	KED
|	**Cu**	**65**	**0.029**	ug/L	0.048	168	17	56	114	KED
|	**Zn**	**66**	**0.124**	ug/L	0.090	72	33	80	40	KED
|	**Zn**	**67**	**0.204**	ug/L	0.110	53	3	16	40	KED
⌊	**As**	**75**	**0.016**	ug/L	0.029	181	5	8	64	KED
	Y	**89**		ug/L			199932	198779	2	Standard
	Kr	**83**		ug/L			55	48	15	Standard
⌈>	**In-1**	**115**		ug/L			5415	5592	0	KED
|	**Cd**	**111**	**0.006**	ug/L	0.015	253	1	3	96	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.006	585	1	2	121	KED
⌈>	**Tb**	**159**		ug/L			457409	461457	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	12	92	231	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0523-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:43:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	45919	1	Standard
	Cl	**37**		ug/L			3318464	3930683	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	461672	1	Standard
|	**Cr**	**52**	**1.132**	ug/L	0.015	1	15747	38604	0	Standard
|	**Cr**	**53**	**1.662**	ug/L	0.036	2	81	3656	2	Standard
⌊	**Mn**	**55**	**23.634**	ug/L	0.452	1	555	629960	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	21545	1	KED
|	**Ni**	**60**	**1.088**	ug/L	0.025	2	13	1061	1	KED
|	**Ni**	**62**	**1.049**	ug/L	0.062	5	8	174	3	KED
|	**Cu**	**63**	**6.072**	ug/L	0.166	2	28	17448	1	KED
|	**Cu**	**65**	**6.011**	ug/L	0.162	2	17	8532	1	KED
|	**Zn**	**66**	**159.680**	ug/L	4.687	2	33	60776	1	KED
|	**Zn**	**67**	**149.875**	ug/L	4.288	2	3	9741	1	KED
⌊	**As**	**75**	**0.263**	ug/L	0.020	7	5	56	5	KED
	Y	**89**		ug/L			199932	224900	1	Standard
	Kr	**83**		ug/L			55	38	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5836	0	KED
|	**Cd**	**111**	**0.074**	ug/L	0.013	17	1	17	15	KED
⌊	**Cd**	**114**	**0.077**	ug/L	0.013	17	1	41	16	KED
⌈>	**Tb**	**159**		ug/L			457409	503216	4	Standard
⌊	**Pb**	**208**	**3.582**	ug/L	0.144	4	92	149711	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0540-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:48:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46915	4	Standard
	Cl	**37**		ug/L			3318464	4029684	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	440839	0	Standard
|	**Cr**	**52**	**1.798**	ug/L	0.065	3	15747	48562	1	Standard
|	**Cr**	**53**	**2.240**	ug/L	0.023	1	81	4675	1	Standard
⌊	**Mn**	**55**	**2.963**	ug/L	0.008	0	555	75955	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	21408	1	KED
|	**Ni**	**60**	**0.714**	ug/L	0.029	4	13	697	2	KED
|	**Ni**	**62**	**0.618**	ug/L	0.044	7	8	106	5	KED
|	**Cu**	**63**	**5.598**	ug/L	0.102	1	28	15986	0	KED
|	**Cu**	**65**	**5.418**	ug/L	0.098	1	17	7646	2	KED
|	**Zn**	**66**	**63.085**	ug/L	0.539	0	33	23886	1	KED
|	**Zn**	**67**	**59.096**	ug/L	3.677	6	3	3817	4	KED
⌊	**As**	**75**	**0.369**	ug/L	0.025	6	5	76	5	KED
	Y	**89**		ug/L			199932	216759	2	Standard
	Kr	**83**		ug/L			55	47	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5856	4	KED
|	**Cd**	**111**	**0.055**	ug/L	0.018	33	1	13	29	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.012	27	1	24	26	KED
⌈>	**Tb**	**159**		ug/L			457409	496838	2	Standard
⌊	**Pb**	**208**	**0.929**	ug/L	0.016	1	92	38464	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0542-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:52:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	49286	2	Standard
	Cl	37		ug/L			3318464	5333242	2	Standard
⌈>	Sc	45		ug/L			408513	439861	2	Standard
|	Cr	52	1.950	ug/L	0.041	2	15747	51102	1	Standard
|	Cr	53	3.265	ug/L	0.103	3	81	6758	1	Standard
⌊	Mn	55	12.410	ug/L	0.336	2	555	315353	0	Standard
⌈>	Ge	72		ug/L			19427	20670	1	KED
|	Ni	60	1.364	ug/L	0.023	1	13	1273	1	KED
|	Ni	62	1.339	ug/L	0.067	5	8	211	4	KED
|	Cu	63	10.573	ug/L	0.133	1	28	29136	2	KED
|	Cu	65	10.670	ug/L	0.129	1	17	14521	1	KED
|	Zn	66	133.560	ug/L	1.550	1	33	48786	0	KED
|	Zn	67	123.167	ug/L	4.343	3	3	7682	3	KED
⌊	As	75	0.796	ug/L	0.032	4	5	152	5	KED
	Y	89		ug/L			199932	211968	1	Standard
	Kr	83		ug/L			55	41	19	Standard
⌈>	In-1	115		ug/L			5415	5794	2	KED
|	Cd	111	0.099	ug/L	0.016	16	1	22	12	KED
⌊	Cd	114	0.094	ug/L	0.018	18	1	50	16	KED
⌈>	Tb	159		ug/L			457409	487729	5	Standard
⌊	Pb	208	6.348	ug/L	0.343	5	92	256922	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 07:57:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	43851	0	Standard
	Cl	37		ug/L			3318464	3700060	1	Standard
⌈>	Sc	45		ug/L			408513	416761	1	Standard
|	Cr	52	0.414	ug/L	0.031	7	15747	22932	1	Standard
|	Cr	53	0.604	ug/L	0.007	1	81	1251	1	Standard
⌊	Mn	55	5.422	ug/L	0.105	1	555	130903	1	Standard
⌈>	Ge	72		ug/L			19427	21262	0	KED
|	Ni	60	0.229	ug/L	0.031	13	13	232	13	KED
|	Ni	62	0.207	ug/L	0.097	46	8	41	37	KED
|	Cu	63	1.698	ug/L	0.016	0	28	4839	1	KED
|	Cu	65	1.709	ug/L	0.026	1	17	2409	2	KED
|	Zn	66	14.587	ug/L	0.267	1	33	5514	1	KED
|	Zn	67	12.104	ug/L	0.438	3	3	780	2	KED
⌊	As	75	0.183	ug/L	0.023	12	5	40	11	KED
	Y	89		ug/L			199932	205769	1	Standard
	Kr	83		ug/L			55	46	26	Standard
⌈>	In-1	115		ug/L			5415	5761	2	KED
|	Cd	111	0.098	ug/L	0.017	17	1	22	17	KED
⌊	Cd	114	0.112	ug/L	0.025	22	1	59	22	KED
⌈>	Tb	159		ug/L			457409	474819	3	Standard
⌊	Pb	208	4.591	ug/L	0.202	4	92	181072	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:01:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	42423	3	Standard
	Cl	**37**		ug/L			3318464	3617262	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	417780	0	Standard
|	**Cr**	**52**	**0.323**	ug/L	0.031	9	15747	21471	1	Standard
|	**Cr**	**53**	**0.436**	ug/L	0.020	4	81	928	3	Standard
⌊	**Mn**	**55**	**1.800**	ug/L	0.016	0	555	43955	0	Standard
⌈>	**Ge**	**72**		ug/L			19427	20962	1	KED
|	**Ni**	**60**	**0.100**	ug/L	0.017	16	13	107	14	KED
|	**Ni**	**62**	**0.100**	ug/L	0.040	40	8	24	24	KED
|	**Cu**	**63**	**0.621**	ug/L	0.022	3	28	1762	2	KED
|	**Cu**	**65**	**0.559**	ug/L	0.051	9	17	788	8	KED
|	**Zn**	**66**	**10.897**	ug/L	0.233	2	33	4069	0	KED
|	**Zn**	**67**	**9.377**	ug/L	0.287	3	3	596	2	KED
⌊	**As**	**75**	**0.184**	ug/L	0.005	2	5	39	3	KED
	Y	**89**		ug/L			199932	205922	0	Standard
	Kr	**83**		ug/L			55	38	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5856	2	KED
|	**Cd**	**111**	**0.035**	ug/L	0.009	24	1	9	17	KED
⌊	**Cd**	**114**	**0.032**	ug/L	0.020	62	1	18	54	KED
⌈>	**Tb**	**159**		ug/L			457409	470943	2	Standard
⌊	**Pb**	**208**	**1.244**	ug/L	0.030	2	92	48750	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0543-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:05:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40565	0	Standard
	Cl	**37**		ug/L			3318464	3655989	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	416430	2	Standard
|	**Cr**	**52**	**0.559**	ug/L	0.050	8	15747	25316	1	Standard
|	**Cr**	**53**	**0.678**	ug/L	0.034	4	81	1394	3	Standard
⌊	**Mn**	**55**	**5.240**	ug/L	0.099	1	555	126440	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21519	0	KED
|	**Ni**	**60**	**0.332**	ug/L	0.035	10	13	333	10	KED
|	**Ni**	**62**	**0.256**	ug/L	0.033	12	8	49	10	KED
|	**Cu**	**63**	**1.494**	ug/L	0.034	2	28	4311	2	KED
|	**Cu**	**65**	**1.489**	ug/L	0.065	4	17	2125	4	KED
|	**Zn**	**66**	**12.349**	ug/L	0.306	2	33	4730	2	KED
|	**Zn**	**67**	**11.283**	ug/L	0.427	3	3	736	3	KED
⌊	**As**	**75**	**0.157**	ug/L	0.026	16	5	35	14	KED
	Y	**89**		ug/L			199932	200972	1	Standard
	Kr	**83**		ug/L			55	36	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	6130	2	KED
|	**Cd**	**111**	**0.017**	ug/L	0.009	52	1	6	36	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.005	38	1	9	32	KED
⌈>	**Tb**	**159**		ug/L			457409	469615	5	Standard
⌊	**Pb**	**208**	**2.025**	ug/L	0.047	2	92	79080	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0545-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:10:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	38911	1	Standard
	Cl	**37**		ug/L			3318464	3496197	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	439207	1	Standard
|	**Cr**	**52**	**2.993**	ug/L	0.029	0	15747	69300	2	Standard
|	**Cr**	**53**	**3.177**	ug/L	0.105	3	81	6570	2	Standard
⌊	**Mn**	**55**	**50.355**	ug/L	1.701	3	555	1275969	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21059	1	KED
|	**Ni**	**60**	**3.909**	ug/L	0.102	2	13	3691	1	KED
|	**Ni**	**62**	**3.952**	ug/L	0.096	2	8	618	1	KED
|	**Cu**	**63**	**111.264**	ug/L	3.415	3	28	311963	1	KED
|	**Cu**	**65**	**112.206**	ug/L	3.498	3	17	155363	1	KED
|	**Zn**	**66**	**85.157**	ug/L	2.201	2	33	31703	1	KED
|	**Zn**	**67**	**75.845**	ug/L	0.627	0	3	4821	1	KED
⌊	**As**	**75**	**0.921**	ug/L	0.038	4	5	178	3	KED
	Y	**89**		ug/L			199932	230715	1	Standard
	Kr	**83**		ug/L			55	50	30	Standard
⌈>	**In-1**	**115**		ug/L			5415	5835	2	KED
|	**Cd**	**111**	**0.114**	ug/L	0.035	30	1	26	25	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.017	16	1	53	15	KED
⌈>	**Tb**	**159**		ug/L			457409	474970	4	Standard
⌊	**Pb**	**208**	**10.334**	ug/L	0.248	2	92	407679	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0546-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:14:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	47491	2	Standard
	Cl	**37**		ug/L			3318464	3761871	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	435530	1	Standard
|	**Cr**	**52**	**0.359**	ug/L	0.009	2	15747	23021	1	Standard
|	**Cr**	**53**	**0.738**	ug/L	0.025	3	81	1581	4	Standard
⌊	**Mn**	**55**	**13.529**	ug/L	0.234	1	555	340575	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	21065	1	KED
|	**Ni**	**60**	**1.278**	ug/L	0.104	8	13	1216	7	KED
|	**Ni**	**62**	**1.140**	ug/L	0.028	2	8	184	1	KED
|	**Cu**	**63**	**6.402**	ug/L	0.170	2	28	17987	2	KED
|	**Cu**	**65**	**6.410**	ug/L	0.096	1	17	8896	1	KED
|	**Zn**	**66**	**213.261**	ug/L	2.813	1	33	79385	2	KED
|	**Zn**	**67**	**187.414**	ug/L	3.654	1	3	11914	3	KED
⌊	**As**	**75**	**0.315**	ug/L	0.038	11	5	64	12	KED
	Y	**89**		ug/L			199932	213847	3	Standard
	Kr	**83**		ug/L			55	40	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5934	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.004	7	1	13	7	KED
⌊	**Cd**	**114**	**0.059**	ug/L	0.016	26	1	32	23	KED
⌈>	**Tb**	**159**		ug/L			457409	487352	3	Standard
⌊	**Pb**	**208**	**0.254**	ug/L	0.009	3	92	10381	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0546-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:18:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	50965	1	Standard
	Cl	37		ug/L			3318464	3717283	3	Standard
⌈>	Sc	45		ug/L			408513	482502	1	Standard
|	Cr	52	0.524	ug/L	0.016	3	15747	28665	1	Standard
|	Cr	53	0.733	ug/L	0.018	2	81	1740	2	Standard
⌊	Mn	55	10.486	ug/L	0.272	2	555	292470	1	Standard
⌈>	Ge	72		ug/L			19427	21934	1	KED
|	Ni	60	0.705	ug/L	0.077	10	13	704	9	KED
|	Ni	62	0.641	ug/L	0.026	4	8	112	4	KED
|	Cu	63	8.029	ug/L	0.155	1	28	23479	0	KED
|	Cu	65	7.974	ug/L	0.179	2	17	11519	1	KED
|	Zn	66	141.640	ug/L	1.393	0	33	54906	1	KED
|	Zn	67	123.924	ug/L	3.182	2	3	8203	3	KED
⌊	As	75	0.600	ug/L	0.042	7	5	123	5	KED
	Y	89		ug/L			199932	223391	3	Standard
	Kr	83		ug/L			55	46	21	Standard
⌈>	In-1	115		ug/L			5415	5799	2	KED
|	Cd	111	0.090	ug/L	0.015	16	1	20	13	KED
⌊	Cd	114	0.099	ug/L	0.023	23	1	52	21	KED
⌈>	Tb	159		ug/L			457409	503616	3	Standard
⌊	Pb	208	1.647	ug/L	0.029	1	92	69013	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0547-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:24:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	61706	1	Standard
	Cl	**37**		ug/L			3318464	9362251	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	444137	3	Standard
|	**Cr**	**52**	**1.398**	ug/L	0.064	4	15747	41819	0	Standard
|	**Cr**	**53**	**4.986**	ug/L	0.196	3	81	10369	0	Standard
⌊	**Mn**	**55**	**2.608**	ug/L	0.141	5	555	67358	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	19551	1	KED
|	**Ni**	**60**	**3.834**	ug/L	0.047	1	13	3361	1	KED
|	**Ni**	**62**	**4.014**	ug/L	0.292	7	8	582	6	KED
|	**Cu**	**63**	**70.251**	ug/L	2.226	3	28	182861	1	KED
|	**Cu**	**65**	**71.953**	ug/L	1.881	2	17	92499	0	KED
|	**Zn**	**66**	**488.968**	ug/L	3.227	0	33	168857	1	KED
|	**Zn**	**67**	**433.856**	ug/L	7.914	1	3	25587	2	KED
⌊	**As**	**75**	**1.428**	ug/L	0.102	7	5	253	5	KED
	Y	**89**		ug/L			199932	211673	1	Standard
	Kr	**83**		ug/L			55	57	12	Standard
⌈>	**In-1**	**115**		ug/L			5415	5528	0	KED
|	**Cd**	**111**	**0.759**	ug/L	0.037	4	1	153	4	KED
⌊	**Cd**	**114**	**0.784**	ug/L	0.047	6	1	383	6	KED
⌈>	**Tb**	**159**		ug/L			457409	493334	3	Standard
⌊	**Pb**	**208**	**0.507**	ug/L	0.019	3	92	20847	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:32:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	31794	5	Standard
	Cl	**37**		ug/L			3318464	3712270	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	425363	4	Standard
⎢	**Cr**	**52**	**51.087**	ug/L	0.419	0	15747	881752	3	Standard
⎢	**Cr**	**53**	**51.068**	ug/L	0.505	0	81	101022	4	Standard
⎣	**Mn**	**55**	**51.893**	ug/L	1.017	1	555	1273383	2	Standard
⎡>	**Ge**	**72**		ug/L			19427	20738	1	KED
⎢	**Ni**	**60**	**50.850**	ug/L	1.099	2	13	47115	0	KED
⎢	**Ni**	**62**	**50.492**	ug/L	1.292	2	8	7676	1	KED
⎢	**Cu**	**63**	**49.409**	ug/L	1.167	2	28	136462	2	KED
⎢	**Cu**	**65**	**49.846**	ug/L	1.107	2	17	67981	0	KED
⎢	**Zn**	**66**	**50.636**	ug/L	1.107	2	33	18577	0	KED
⎢	**Zn**	**67**	**50.325**	ug/L	1.843	3	3	3150	2	KED
⎣	**As**	**75**	**49.995**	ug/L	1.497	2	5	9242	1	KED
	Y	**89**		ug/L			199932	208978	5	Standard
	Kr	**83**		ug/L			55	56	7	Standard
⎡>	**In-1**	**115**		ug/L			5415	5699	1	KED
⎢	**Cd**	**111**	**49.602**	ug/L	1.197	2	1	10242	1	KED
⎣	**Cd**	**114**	**50.166**	ug/L	1.564	3	1	25164	3	KED
⎡>	**Tb**	**159**		ug/L			457409	485359	5	Standard
⎣	**Pb**	**208**	**52.206**	ug/L	2.038	3	92	2102625	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:39:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30209	3	Standard
	Cl	**37**		ug/L			3318464	3596592	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	403045	1	Standard
|	**Cr**	**52**	**0.029**	ug/L	0.008	26	15747	16008	1	Standard
|	**Cr**	**53**	**0.128**	ug/L	0.003	2	81	320	3	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	52	555	625	5	Standard
⌈>	**Ge**	**72**		ug/L			19427	21913	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.002	38	13	9	20	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.019	177	8	7	43	KED
|	**Cu**	**63**	**0.010**	ug/L	0.003	31	28	62	16	KED
|	**Cu**	**65**	**0.006**	ug/L	0.002	32	17	27	7	KED
|	**Zn**	**66**	**0.062**	ug/L	0.039	62	33	61	21	KED
|	**Zn**	**67**	**0.071**	ug/L	0.113	159	3	8	81	KED
⌊	**As**	**75**	**0.002**	ug/L	0.013	746	5	6	40	KED
	Y	**89**		ug/L			199932	192600	2	Standard
	Kr	**83**		ug/L			55	52	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5970	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	238	1	1	69	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	125	1	1	112	KED
⌈>	**Tb**	**159**		ug/L			457409	456893	4	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	16	92	231	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0549-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:44:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	48055	0	Standard
	Cl	**37**		ug/L			3318464	3704542	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	438676	2	Standard
|	**Cr**	**52**	**0.848**	ug/L	0.037	4	15747	31725	3	Standard
|	**Cr**	**53**	**0.882**	ug/L	0.022	2	81	1885	4	Standard
⌊	**Mn**	**55**	**9.261**	ug/L	0.077	0	555	234950	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20753	1	KED
|	**Ni**	**60**	**0.527**	ug/L	0.021	4	13	502	3	KED
|	**Ni**	**62**	**0.474**	ug/L	0.098	20	8	80	16	KED
|	**Cu**	**63**	**3.779**	ug/L	0.027	0	28	10474	1	KED
|	**Cu**	**65**	**3.721**	ug/L	0.081	2	17	5094	1	KED
|	**Zn**	**66**	**188.434**	ug/L	2.218	1	33	69096	1	KED
|	**Zn**	**67**	**168.431**	ug/L	1.290	0	3	10547	1	KED
⌊	**As**	**75**	**0.184**	ug/L	0.018	9	5	39	7	KED
	Y	**89**		ug/L			199932	218062	2	Standard
	Kr	**83**		ug/L			55	59	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5739	4	KED
|	**Cd**	**111**	**0.064**	ug/L	0.018	29	1	15	25	KED
⌊	**Cd**	**114**	**0.044**	ug/L	0.019	41	1	24	42	KED
⌈>	**Tb**	**159**		ug/L			457409	490148	3	Standard
⌊	**Pb**	**208**	**3.069**	ug/L	0.058	1	92	125048	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0549-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:48:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	43657	0	Standard
	Cl	**37**		ug/L			3318464	3658474	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	422079	0	Standard
|	**Cr**	**52**	**1.009**	ug/L	0.012	1	15747	33228	0	Standard
|	**Cr**	**53**	**1.017**	ug/L	0.028	2	81	2078	2	Standard
⌊	**Mn**	**55**	**5.766**	ug/L	0.126	2	555	140969	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20820	1	KED
|	**Ni**	**60**	**0.448**	ug/L	0.012	2	13	431	3	KED
|	**Ni**	**62**	**0.379**	ug/L	0.028	7	8	66	4	KED
|	**Cu**	**63**	**3.316**	ug/L	0.038	1	28	9223	0	KED
|	**Cu**	**65**	**3.327**	ug/L	0.104	3	17	4574	3	KED
|	**Zn**	**66**	**167.344**	ug/L	3.320	1	33	61575	3	KED
|	**Zn**	**67**	**148.651**	ug/L	4.591	3	3	9337	2	KED
⌊	**As**	**75**	**0.150**	ug/L	0.021	14	5	33	13	KED
	Y	**89**		ug/L			199932	207357	2	Standard
	Kr	**83**		ug/L			55	36	13	Standard
⌈>	**In-1**	**115**		ug/L			5415	5774	4	KED
|	**Cd**	**111**	**0.046**	ug/L	0.025	55	1	11	41	KED
⌊	**Cd**	**114**	**0.039**	ug/L	0.010	27	1	21	22	KED
⌈>	**Tb**	**159**		ug/L			457409	474673	2	Standard
⌊	**Pb**	**208**	**1.989**	ug/L	0.047	2	92	78518	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0550-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:52:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40883	3	Standard
	Cl	**37**		ug/L			3318464	3612005	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	453549	3	Standard
|	**Cr**	**52**	**0.188**	ug/L	0.036	19	15747	20862	0	Standard
|	**Cr**	**53**	**0.284**	ug/L	0.020	7	81	689	7	Standard
⌊	**Mn**	**55**	**3.705**	ug/L	0.107	2	555	97489	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21244	4	KED
|	**Ni**	**60**	**0.315**	ug/L	0.034	10	13	312	7	KED
|	**Ni**	**62**	**0.253**	ug/L	0.065	25	8	48	20	KED
|	**Cu**	**63**	**2.226**	ug/L	0.073	3	28	6323	3	KED
|	**Cu**	**65**	**2.248**	ug/L	0.119	5	17	3155	1	KED
|	**Zn**	**66**	**31.792**	ug/L	0.338	1	33	11968	5	KED
|	**Zn**	**67**	**27.264**	ug/L	1.079	3	3	1752	7	KED
⌊	**As**	**75**	**0.102**	ug/L	0.013	13	5	24	6	KED
	Y	**89**		ug/L			199932	218574	2	Standard
	Kr	**83**		ug/L			55	46	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	6221	4	KED
|	**Cd**	**111**	**0.013**	ug/L	0.005	38	1	5	21	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.005	69	1	6	44	KED
⌈>	**Tb**	**159**		ug/L			457409	499761	5	Standard
⌊	**Pb**	**208**	**1.312**	ug/L	0.060	4	92	54495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0551-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 08:57:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	48956	1	Standard
	Cl	**37**		ug/L			3318464	3670526	3	Standard
⌈>	**Sc**	**45**		ug/L			408513	457755	1	Standard
|	**Cr**	**52**	**0.579**	ug/L	0.029	4	15747	28204	1	Standard
|	**Cr**	**53**	**0.753**	ug/L	0.013	1	81	1691	0	Standard
⌊	**Mn**	**55**	**8.170**	ug/L	0.125	1	555	216381	2	Standard
⌈>	**Ge**	**72**		ug/L			19427	21408	0	KED
|	**Ni**	**60**	**0.531**	ug/L	0.016	2	13	522	3	KED
|	**Ni**	**62**	**0.512**	ug/L	0.114	22	8	89	20	KED
|	**Cu**	**63**	**5.284**	ug/L	0.208	3	28	15094	4	KED
|	**Cu**	**65**	**5.326**	ug/L	0.048	0	17	7516	0	KED
|	**Zn**	**66**	**47.155**	ug/L	0.820	1	33	17864	1	KED
|	**Zn**	**67**	**41.932**	ug/L	0.491	1	3	2712	1	KED
⌊	**As**	**75**	**0.392**	ug/L	0.012	2	5	80	2	KED
	Y	**89**		ug/L			199932	214863	1	Standard
	Kr	**83**		ug/L			55	45	4	Standard
⌈>	**In-1**	**115**		ug/L			5415	5966	1	KED
|	**Cd**	**111**	**0.052**	ug/L	0.017	32	1	13	28	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.016	48	1	19	44	KED
⌈>	**Tb**	**159**		ug/L			457409	484836	4	Standard
⌊	**Pb**	**208**	**0.777**	ug/L	0.036	4	92	31375	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0552-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:01:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	39475	2	Standard
	Cl	**37**		ug/L			3318464	3612996	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	426365	1	Standard
|	**Cr**	**52**	**0.835**	ug/L	0.036	4	15747	30608	0	Standard
|	**Cr**	**53**	**0.926**	ug/L	0.036	3	81	1918	1	Standard
⌊	**Mn**	**55**	**14.974**	ug/L	0.375	2	555	368797	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	21161	2	KED
|	**Ni**	**60**	**0.644**	ug/L	0.031	4	13	622	3	KED
|	**Ni**	**62**	**0.566**	ug/L	0.087	15	8	96	11	KED
|	**Cu**	**63**	**2.848**	ug/L	0.120	4	28	8052	1	KED
|	**Cu**	**65**	**2.912**	ug/L	0.087	2	17	4068	1	KED
|	**Zn**	**66**	**100.665**	ug/L	3.149	3	33	37638	0	KED
|	**Zn**	**67**	**88.356**	ug/L	4.563	5	3	5639	3	KED
⌊	**As**	**75**	**0.185**	ug/L	0.033	17	5	40	17	KED
	Y	**89**		ug/L			199932	211332	1	Standard
	Kr	**83**		ug/L			55	39	10	Standard
⌈>	**In-1**	**115**		ug/L			5415	5813	2	KED
|	**Cd**	**111**	**0.039**	ug/L	0.012	32	1	10	23	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.000	1	1	16	3	KED
⌈>	**Tb**	**159**		ug/L			457409	480481	4	Standard
⌊	**Pb**	**208**	**1.376**	ug/L	0.051	3	92	54960	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0553-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:05:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	46289	2	Standard
	Cl	**37**		ug/L			3318464	3604765	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	431442	4	Standard
|	**Cr**	**52**	**0.351**	ug/L	0.033	9	15747	22652	2	Standard
|	**Cr**	**53**	**0.326**	ug/L	0.004	1	81	739	4	Standard
⌊	**Mn**	**55**	**3.398**	ug/L	0.051	1	555	85136	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	20824	1	KED
|	**Ni**	**60**	**0.288**	ug/L	0.042	14	13	282	14	KED
|	**Ni**	**62**	**0.208**	ug/L	0.058	27	8	40	21	KED
|	**Cu**	**63**	**1.501**	ug/L	0.033	2	28	4192	1	KED
|	**Cu**	**65**	**1.475**	ug/L	0.078	5	17	2038	5	KED
|	**Zn**	**66**	**72.333**	ug/L	1.028	1	33	26636	1	KED
|	**Zn**	**67**	**64.667**	ug/L	1.018	1	3	4065	0	KED
⌊	**As**	**75**	**0.156**	ug/L	0.007	4	5	34	4	KED
	Y	**89**		ug/L			199932	210937	3	Standard
	Kr	**83**		ug/L			55	55	20	Standard
⌈>	**In-1**	**115**		ug/L			5415	6126	1	KED
|	**Cd**	**111**	**0.019**	ug/L	0.005	26	1	6	17	KED
⌊	**Cd**	**114**	**0.025**	ug/L	0.007	26	1	15	24	KED
⌈>	**Tb**	**159**		ug/L			457409	483078	6	Standard
⌊	**Pb**	**208**	**0.320**	ug/L	0.013	3	92	12936	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0554-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:10:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	49934	1	Standard
	Cl	**37**		ug/L			3318464	3799721	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	432185	2	Standard
|	**Cr**	**52**	**1.215**	ug/L	0.011	0	15747	37569	2	Standard
|	**Cr**	**53**	**1.492**	ug/L	0.032	2	81	3081	1	Standard
⌊	**Mn**	**55**	**64.166**	ug/L	0.454	0	555	1600218	1	Standard
⌈>	**Ge**	**72**		ug/L			19427	20626	2	KED
|	**Ni**	**60**	**33.597**	ug/L	0.744	2	13	30963	0	KED
|	**Ni**	**62**	**33.669**	ug/L	1.644	4	8	5092	2	KED
|	**Cu**	**63**	**67.036**	ug/L	2.008	2	28	184076	0	KED
|	**Cu**	**65**	**68.135**	ug/L	1.385	2	17	92419	1	KED
|	**Zn**	**66**	**24.753**	ug/L	0.855	3	33	9048	1	KED
|	**Zn**	**67**	**23.377**	ug/L	1.425	6	3	1457	4	KED
⌊	**As**	**75**	**0.502**	ug/L	0.062	12	5	97	12	KED
	Y	**89**		ug/L			199932	207457	2	Standard
	Kr	**83**		ug/L			55	46	22	Standard
⌈>	**In-1**	**115**		ug/L			5415	5885	0	KED
|	**Cd**	**111**	**0.296**	ug/L	0.049	16	1	65	15	KED
⌊	**Cd**	**114**	**0.311**	ug/L	0.000	0	1	163	0	KED
⌈>	**Tb**	**159**		ug/L			457409	471305	3	Standard
⌊	**Pb**	**208**	**8.164**	ug/L	0.264	3	92	319597	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0554-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:14:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	52582	0	Standard
	Cl	37		ug/L			3318464	3867292	1	Standard
⌈>	Sc	45		ug/L			408513	421927	0	Standard
|	Cr	52	0.693	ug/L	0.036	5	15747	27915	2	Standard
|	Cr	53	1.351	ug/L	0.019	1	81	2732	1	Standard
⌊	Mn	55	1.707	ug/L	0.006	0	555	42111	0	Standard
⌈>	Ge	72		ug/L			19427	20767	0	KED
|	Ni	60	4.146	ug/L	0.119	2	13	3860	2	KED
|	Ni	62	3.982	ug/L	0.216	5	8	614	5	KED
|	Cu	63	10.911	ug/L	0.310	2	28	30203	2	KED
|	Cu	65	11.248	ug/L	0.323	2	17	15378	2	KED
|	Zn	66	3.154	ug/L	0.147	4	33	1193	5	KED
|	Zn	67	3.077	ug/L	0.337	10	3	196	10	KED
⌊	As	75	0.191	ug/L	0.030	15	5	40	12	KED
	Y	89		ug/L			199932	205403	1	Standard
	Kr	83		ug/L			55	46	2	Standard
⌈>	In-1	115		ug/L			5415	5667	2	KED
|	Cd	111	0.023	ug/L	0.018	76	1	6	51	KED
⌊	Cd	114	0.038	ug/L	0.012	32	1	20	28	KED
⌈>	Tb	159		ug/L			457409	467988	4	Standard
⌊	Pb	208	1.871	ug/L	0.054	2	92	72798	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0555-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:18:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	96660	1	Standard
	Cl	37		ug/L			3318464	3971335	2	Standard
>	Sc	45		ug/L			408513	451429	1	Standard
	Cr	52	1.150	ug/L	0.035	3	15747	38092	3	Standard
	Cr	53	1.552	ug/L	0.047	2	81	3344	1	Standard
	Mn	55	8.873	ug/L	0.064	0	555	231663	1	Standard
>	Ge	72		ug/L			19427	20656	2	KED
	Ni	60	0.913	ug/L	0.085	9	13	856	8	KED
	Ni	62	0.927	ug/L	0.100	10	8	149	11	KED
	Cu	63	6.054	ug/L	0.031	0	28	16682	1	KED
	Cu	65	6.111	ug/L	0.056	0	17	8318	1	KED
	Zn	66	75.267	ug/L	1.409	1	33	27485	0	KED
	Zn	67	67.567	ug/L	1.891	2	3	4212	2	KED
	As	75	0.291	ug/L	0.007	2	5	58	0	KED
	Y	89		ug/L			199932	223499	3	Standard
	Kr	83		ug/L			55	44	10	Standard
>	In-1	115		ug/L			5415	5889	4	KED
	Cd	111	0.312	ug/L	0.039	12	1	68	15	KED
	Cd	114	0.291	ug/L	0.019	6	1	153	8	KED
>	Tb	159		ug/L			457409	504449	3	Standard
	Pb	208	1.158	ug/L	0.042	3	92	48617	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0556-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:24:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33587	46977	1	Standard
	Cl	37		ug/L			3318464	3685710	2	Standard
⌈>	Sc	45		ug/L			408513	431243	2	Standard
|	Cr	52	0.594	ug/L	0.039	6	15747	26807	0	Standard
|	Cr	53	0.628	ug/L	0.011	1	81	1343	2	Standard
⌊	Mn	55	8.247	ug/L	0.180	2	555	205701	0	Standard
⌈>	Ge	72		ug/L			19427	20826	3	KED
|	Ni	60	0.449	ug/L	0.032	7	13	432	7	KED
|	Ni	62	0.390	ug/L	0.111	28	8	68	26	KED
|	Cu	63	3.462	ug/L	0.052	1	28	9632	3	KED
|	Cu	65	3.540	ug/L	0.271	7	17	4860	5	KED
|	Zn	66	27.728	ug/L	0.943	3	33	10227	1	KED
|	Zn	67	25.657	ug/L	0.798	3	3	1616	6	KED
⌊	As	75	0.995	ug/L	0.084	8	5	190	9	KED
	Y	89		ug/L			199932	204874	1	Standard
	Kr	83		ug/L			55	46	6	Standard
⌈>	In-1	115		ug/L			5415	6070	2	KED
|	Cd	111	0.093	ug/L	0.007	7	1	22	4	KED
⌊	Cd	114	0.097	ug/L	0.009	9	1	53	6	KED
⌈>	Tb	159		ug/L			457409	472358	5	Standard
⌊	Pb	208	0.518	ug/L	0.020	3	92	20382	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVM
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:32:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32341	2	Standard
	Cl	**37**		ug/L			3318464	3720716	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	432297	0	Standard
⎢	**Cr**	**52**	**50.387**	ug/L	0.595	1	15747	884217	0	Standard
⎢	**Cr**	**53**	**50.590**	ug/L	0.950	1	81	101714	1	Standard
⎣	**Mn**	**55**	**51.878**	ug/L	0.507	0	555	1294415	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	20405	2	KED
⎢	**Ni**	**60**	**51.402**	ug/L	1.519	2	13	46852	1	KED
⎢	**Ni**	**62**	**50.393**	ug/L	0.834	1	8	7539	1	KED
⎢	**Cu**	**63**	**50.650**	ug/L	1.654	3	28	137594	1	KED
⎢	**Cu**	**65**	**51.154**	ug/L	1.806	3	17	68635	2	KED
⎢	**Zn**	**66**	**52.407**	ug/L	1.052	2	33	18916	0	KED
⎢	**Zn**	**67**	**53.199**	ug/L	1.702	3	3	3277	2	KED
⎣	**As**	**75**	**50.923**	ug/L	1.316	2	5	9262	1	KED
	Y	**89**		ug/L			199932	212038	2	Standard
	Kr	**83**		ug/L			55	61	7	Standard
⎡>	**In-1**	**115**		ug/L			5415	5559	1	KED
⎢	**Cd**	**111**	**51.396**	ug/L	1.370	2	1	10352	2	KED
⎣	**Cd**	**114**	**52.425**	ug/L	0.541	1	1	25650	0	KED
⎡>	**Tb**	**159**		ug/L			457409	485110	3	Standard
⎣	**Pb**	**208**	**52.470**	ug/L	0.920	1	92	2114500	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBM
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:39:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30305	1	Standard
	Cl	**37**		ug/L			3318464	3488814	2	Standard
⌈>	**Sc**	**45**		ug/L			408513	399208	3	Standard
|	**Cr**	**52**	**0.043**	ug/L	0.033	77	15747	16054	1	Standard
|	**Cr**	**53**	**0.055**	ug/L	0.020	35	81	181	24	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.002	82	555	585	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	20942	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.006	223	13	12	45	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.018	7708	8	8	32	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	38	28	53	16	KED
|	**Cu**	**65**	**0.012**	ug/L	0.006	48	17	35	24	KED
|	**Zn**	**66**	**0.086**	ug/L	0.017	19	33	67	9	KED
|	**Zn**	**67**	**0.205**	ug/L	0.103	50	3	17	40	KED
⌊	**As**	**75**	**0.008**	ug/L	0.002	28	5	6	3	KED
	Y	**89**		ug/L			199932	198604	2	Standard
	Kr	**83**		ug/L			55	46	9	Standard
⌈>	**In-1**	**115**		ug/L			5415	5528	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	216	1	1	114	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	415	1	2	92	KED
⌈>	**Tb**	**159**		ug/L			457409	453333	6	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	9	92	241	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:44:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	41751	2	Standard
	Cl	**37**		ug/L			3318464	3685451	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	494551	1	Standard
|	**Cr**	**52**	**0.037**	ug/L	0.016	43	15747	19786	0	Standard
|	**Cr**	**53**	**0.047**	ug/L	0.002	3	81	205	3	Standard
⌊	**Mn**	**55**	**0.035**	ug/L	0.003	7	555	1667	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	22437	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.005	2250	13	15	33	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.007	24	8	5	21	KED
|	**Cu**	**63**	**0.009**	ug/L	0.006	69	28	59	29	KED
|	**Cu**	**65**	**0.010**	ug/L	0.004	36	17	34	17	KED
|	**Zn**	**66**	**0.103**	ug/L	0.064	62	33	79	30	KED
|	**Zn**	**67**	**0.114**	ug/L	0.061	53	3	12	32	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.007	99	5	4	34	KED
	Y	**89**		ug/L			199932	231674	2	Standard
	Kr	**83**		ug/L			55	62	16	Standard
⌈>	**In-1**	**115**		ug/L			5415	6516	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.004	167	1	2	33	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	99	1	1	107	KED
⌈>	**Tb**	**159**		ug/L			457409	519465	4	Standard
⌊	**Pb**	**208**	**0.015**	ug/L	0.001	6	92	762	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:48:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40339	1	Standard
	Cl	**37**		ug/L			3318464	3620868	1	Standard
⎡>	**Sc**	**45**		ug/L			408513	480278	1	Standard
⎢	**Cr**	**52**	**0.046**	ug/L	0.036	78	15747	19388	3	Standard
⎢	**Cr**	**53**	**0.036**	ug/L	0.008	22	81	176	9	Standard
⎣	**Mn**	**55**	**0.039**	ug/L	0.002	4	555	1738	1	Standard
⎡>	**Ge**	**72**		ug/L			19427	22088	0	KED
⎢	**Ni**	**60**	**0.003**	ug/L	0.013	471	13	17	69	KED
⎢	**Ni**	**62**	**-0.011**	ug/L	0.011	103	8	7	25	KED
⎢	**Cu**	**63**	**0.008**	ug/L	0.004	57	28	54	22	KED
⎢	**Cu**	**65**	**0.012**	ug/L	0.006	54	17	36	26	KED
⎢	**Zn**	**66**	**0.086**	ug/L	0.018	20	33	71	10	KED
⎢	**Zn**	**67**	**0.097**	ug/L	0.032	32	3	10	20	KED
⎣	**As**	**75**	**-0.013**	ug/L	0.005	37	5	3	31	KED
	Y	**89**		ug/L			199932	229084	2	Standard
	Kr	**83**		ug/L			55	60	23	Standard
⎡>	**In-1**	**115**		ug/L			5415	6421	3	KED
⎢	**Cd**	**111**	**-0.001**	ug/L	0.009	643	1	1	100	KED
⎣	**Cd**	**114**	**0.004**	ug/L	0.004	100	1	4	48	KED
⎡>	**Tb**	**159**		ug/L			457409	507860	1	Standard
⎣	**Pb**	**208**	**0.014**	ug/L	0.001	5	92	683	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:52:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	40713	1	Standard
	Cl	**37**		ug/L			3318464	3552995	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	493899	3	Standard
|	**Cr**	**52**	**0.050**	ug/L	0.032	64	15747	20010	0	Standard
|	**Cr**	**53**	**0.027**	ug/L	0.003	12	81	159	8	Standard
⌊	**Mn**	**55**	**0.037**	ug/L	0.001	1	555	1731	3	Standard
⌈>	**Ge**	**72**		ug/L			19427	22242	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.009	694	13	16	53	KED
|	**Ni**	**62**	**-0.038**	ug/L	0.014	35	8	3	69	KED
|	**Cu**	**63**	**0.009**	ug/L	0.001	7	28	60	1	KED
|	**Cu**	**65**	**0.002**	ug/L	0.004	227	17	22	26	KED
|	**Zn**	**66**	**0.050**	ug/L	0.029	57	33	58	20	KED
|	**Zn**	**67**	**0.096**	ug/L	0.061	63	3	10	36	KED
⌊	**As**	**75**	**-0.009**	ug/L	0.001	14	5	4	6	KED
	Y	**89**		ug/L			199932	231256	2	Standard
	Kr	**83**		ug/L			55	48	34	Standard
⌈>	**In-1**	**115**		ug/L			5415	6375	2	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	81	1	1	34	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	351	1	1	114	KED
⌈>	**Tb**	**159**		ug/L			457409	521797	4	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.002	11	92	690	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 09:57:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	32105	0	Standard
	Cl	**37**		ug/L			3318464	3332714	0	Standard
⌈>	**Sc**	**45**		ug/L			408513	417881	0	Standard
|	**Cr**	**52**	**-0.060**	ug/L	0.008	13	15747	15111	1	Standard
|	**Cr**	**53**	**0.026**	ug/L	0.001	5	81	134	2	Standard
⌊	**Mn**	**55**	**-0.011**	ug/L	0.001	5	555	296	4	Standard
⌈>	**Ge**	**72**		ug/L			19427	21293	0	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.001	30	13	10	10	KED
|	**Ni**	**62**	**-0.038**	ug/L	0.007	18	8	3	34	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.002	202	28	27	23	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.004	135	17	14	37	KED
|	**Zn**	**66**	**-0.020**	ug/L	0.019	94	33	29	24	KED
|	**Zn**	**67**	**0.063**	ug/L	0.016	25	3	8	13	KED
⌊	**As**	**75**	**-0.009**	ug/L	0.006	69	5	3	33	KED
	Y	**89**		ug/L			199932	196948	2	Standard
	Kr	**83**		ug/L			55	52	33	Standard
⌈>	**In-1**	**115**		ug/L			5415	5849	3	KED
|	**Cd**	**111**	**0.004**	ug/L	0.008	205	1	2	57	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.004	69	1	4	43	KED
⌈>	**Tb**	**159**		ug/L			457409	459690	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	30	92	71	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 10:01:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30783	1	Standard
	Cl	**37**		ug/L			3318464	3362908	0	Standard
⎡>	**Sc**	**45**		ug/L			408513	390990	3	Standard
⎢	**Cr**	**52**	**-0.002**	ug/L	0.041	1789	15747	15021	0	Standard
⎢	**Cr**	**53**	**0.034**	ug/L	0.005	15	81	140	6	Standard
⎣	**Mn**	**55**	**-0.011**	ug/L	0.001	7	555	287	5	Standard
⎡>	**Ge**	**72**		ug/L			19427	21419	1	KED
⎢	**Ni**	**60**	**-0.003**	ug/L	0.004	104	13	11	28	KED
⎢	**Ni**	**62**	**-0.030**	ug/L	0.025	85	8	4	89	KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.001	164	28	29	13	KED
⎢	**Cu**	**65**	**-0.005**	ug/L	0.001	17	17	12	9	KED
⎢	**Zn**	**66**	**-0.012**	ug/L	0.001	7	33	32	0	KED
⎢	**Zn**	**67**	**0.033**	ug/L	0.046	136	3	6	45	KED
⎣	**As**	**75**	**-0.008**	ug/L	0.007	86	5	3	34	KED
	Y	**89**		ug/L			199932	190097	1	Standard
	Kr	**83**		ug/L			55	41	14	Standard
⎡>	**In-1**	**115**		ug/L			5415	5938	3	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.004	114	1	2	33	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.002	139	1	1	93	KED
⎡>	**Tb**	**159**		ug/L			457409	443814	6	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	17	92	50	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, January 10, 2023 10:05:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\010923.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33587	30788	2	Standard
	Cl	**37**		ug/L			3318464	3338058	1	Standard
⌈>	**Sc**	**45**		ug/L			408513	390633	1	Standard
|	**Cr**	**52**	**-0.027**	ug/L	0.014	52	15747	14630	0	Standard
|	**Cr**	**53**	**0.027**	ug/L	0.007	26	81	127	10	Standard
⌊	**Mn**	**55**	**-0.011**	ug/L	0.001	9	555	274	8	Standard
⌈>	**Ge**	**72**		ug/L			19427	20550	2	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.005	84	13	8	58	KED
|	**Ni**	**62**	**-0.028**	ug/L	0.029	103	8	4	98	KED
|	**Cu**	**63**	**0.000**	ug/L	0.002	627	28	31	18	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.003	41	17	9	40	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.010	46	33	27	10	KED
|	**Zn**	**67**	**0.007**	ug/L	0.018	268	3	4	24	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.005	79	5	4	22	KED
	Y	**89**		ug/L			199932	187294	5	Standard
	Kr	**83**		ug/L			55	36	14	Standard
⌈>	**In-1**	**115**		ug/L			5415	5409	3	KED
|	**Cd**	**111**	**0.006**	ug/L	0.003	40	1	3	17	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.004	103	1	3	52	KED
⌈>	**Tb**	**159**		ug/L			457409	440470	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	12	92	58	9	Standard

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00033
Instrument: ICPMS2
Calibration Date: 01/12/2023 15:38

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	245	10	216.8	20	211.9	50	205.22	100	204.41
Cadmium-111	0	0	0.1	260	10	254	20	251.7	50	244.04	100	241.27
Copper-63	0	0	0.5	3396	10	3291.2	20	3223.05	50	3028.06	100	2990.31
Zinc-66	0	0	6	459.3333	10	459.5	20	447.2	50	409.78	100	402.15

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00033	Instrument:	ICPMS2
Calibration Date:	01/12/2023 15:38		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	180.555	49.7	0.9999		0.998	
Cadmium-111	208.5017	49.1	0.9999		0.998	
Copper-63	2654.77	49.3	0.9997		0.998	
Zinc-66	362.9939	49.5	0.9996		0.998	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MS **Sequence:** SLAΦ147 **Cal:** GAΦΦΦ33

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	LΦ439		
		-CAL2	LΦ149		
		-CAL3	LΦ15Φ		
		-CAL4	LΦ151		
		-CAL5	LΦ44Φ		
		-CAL6	LΦ152		
		-IBL1	—		
		-ICV1	LΦ243		
		-ICB1	LΦ439		
		-CCV1	LΦ44Φ		
		-CCB1	LΦ439		
	✓	-CRL1	—		std mode noisy - Multiple ↑
		-CRL1	LΦ149		
		-IFA1	LΦ394		Cr^{53} ↑
		-IFB1	LΦ395		
		-HCV1	LΦ232		
		-HCV2	LΦ233		Zn↓ - Zn<200
		-IBL2	—		
		-CCV2			
		-CCB2			
		BLAΦ278-BLK1	REN		
		-BS1			
		23AΦ19Φ-Φ1		2	
		23AΦ192-Φ1		5	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ192-Φ2	REN	5	
		22LΦ435-Φ1	↓	↓	Be only
		BLAΦΦ15-DUP3	↓	↓	↓
		↓ -MS3	↓	↓	↓
		↓ -MSD3	↓	↓	↓
		SEQ-IBL3			
	✓	-CCV3			Ge sl. noisy
		-CCV3			
		-CCB3			
		23AΦ192-Φ3	REN		Zn↑ Zn NR
		↓ -Φ4	↓		
		23AΦ191-Φ1	↓		
		BLAΦ278-DUP1	↓		
		↓ -MS1	↓		
		↓ -MSD1	↓		
		23AΦ126-Φ1	↓	2	
		↓ -Φ2	↓	↓	
		↓ -Φ3	↓	↓	
		23AΦ192-Φ3RE1	↓	5	Zn only
		SEQ-CCV4			
		-CCB4			
	✓	-CAL1			Ba, Be, Ni, Se Removed
		-CCV5			
		-CCB5			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ6Φ8-BLK2	SWN	20	Ag only
		↓ -BS2	↓	↓	↓
		BLAΦ224-BLK1			Pb > ½RL
		↓ -BS1			
		22KΦ328-17RE1			Cu, Zn ↑ / Pb > 10x BLK cont. Cu, Zn NR
		BLAΦ224-DUP1			/ Cr, Pb RPD↑
		-MS1			/ ~~Pb %R↓~~ Pb STL /
		↓ -MSD1		↓	↓ / ~~Pb %R↑~~ ↓ ↓
		22LΦ383-Φ2	↓	50	Ag, Cr only
		SEQ-IBL4			
		↓ -CCV6			
		↓ -CCB6			Ge noisy-%R + Analytes OK
		22KΦ328-17RE2	SWN	100	Cu, Zn only
		BLAΦ224-DUP2			Cu, Zn RPD↑
		-MS2			Cu STL / Zn %R↑
		↓ -MSD2		↓	↓ ↓ ↓
		22LΦ329-Φ7		50	In sl. noisy-%R + Analytes OK Ag, Cr only
		BKLΦ6Φ8-DUP2			
		-MS2			Ag %R↓
		-MSD2			↓
		↓ -PS2	↓	↓	60.uL K7409 ↓
		SEQ-IBL5			
		↓ -CCV7			
		↓ -CCB7			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	22LΦ383-Φ3	SWN	2050	Ag, Cr only
		-Φ4		50	
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		22LΦ417-Φ1			
		-Φ2			
		-Φ3			
		SEQ-IBL6			
		-CCV8			Sc, In, Tb noisy
		-CCB8			
		BLAΦ516-BLK1	SWN	20	
		-BS1			
	✓	22LΦ417-Φ4		50	Ag, Cr only
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		-Φ9			
	OK ~~X~~	23AΦ1Φ9-Φ1			Zn only
		SEQ-IBL7			
		-CCV9			
		-CCB9			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ617-Φ1	REN	2	Cr only
		22LΦ459-Φ1	SWN	20	
		-Φ2			
		-Φ3			
		-Φ4			
		-Φ5			
		-Φ6			
		-Φ7			
		23AΦ114-Φ1			
		SEQ-IBL8			
		-CCVA			
		-CCBA			
	✓	-CAL1			
		-CCVB			
		-CCBB			
		22LΦ589-Φ1	REN	5	Zn only
		22LΦ599-Φ1			Cu only
		22LΦ598-Φ1			Cr only
		BLAΦ234-DUP2			
		-MS2			
		23AΦΦ11-Φ1	SWN	20	
		BLAΦ156-DUP1			
		-MS1			
		-MSD1			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBL9			
		-CCVC			Ag sl. noisy - Value OK
		-CCBC			Sc, In sl. noisy - %R of Analytes OK
		22LΦ649-Φ1	REN		Ge↓ Pb only
	✓	22LΦ65Φ-Φ1			Sc, Ge, In^{-1}, In, Tb↓/Zn↑/(Salty.)
	✓	22LΦ651-Φ1			↓ ↓
		22LΦ653-Φ1			
		22LΦ655-Φ1		5	
		22LΦ656-Φ1			
		22LΦ66Φ-Φ3			
		-Φ5		2	
		23AΦΦ11-Φ2	SWN	20	
		SEQ-IBLA			(Cr^{53}↑)
		-CCVD			Cu↑/Ge sl. noisy As sl. noisy
		-CCBD			Ge↓/Cr^{53}↑
	✓	23AΦΦ11-Φ3	SWN	20	↓
		-Φ4			
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		-Φ9			
		-1Φ			
		-11			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBLB			(Cr^{53} ↑ / Sc, Tb sl. noisy)
		-CCVE			Cu^{63} ↑
		-CCBE			Ge↓ / Cr^{53} ↑
	✓	23AΦΦ11-12	SWN	20	
		-13			Ge↓
		-14			Ge sl. noisy
		-15			
		-16			
		-17			
		-18			
		-19			
		-2Φ			
		SEQ-IBLC			
		-CCVF			Cu^{63} ↑ / Ge sl. noisy / Zn^{67} sl. noisy
		-CCBF			Ge↓
		Rinse/DI			
			MB	1/12/23	

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, January 12, 2023 13:29:15
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4937
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	10029.7	10029.654	152.363	1.5	Standard
	In	114.9	67914.8	67914.794	571.230	0.8	Standard
	U	238.1	56679.5	56679.485	209.441	0.4	Standard
⌈	CeO	155.9	1090.6	0.017	0.001	3.8	Standard
| >	Ce	139.9	64240.5	64240.521	447.105	0.7	Standard
⌊	Ce++	70.0	1636.3	0.025	0.001	2.6	Standard
	Bkgd	220.0	0.1	0.067	0.091	136.9	Standard

Current Conditions File Data

Current Value	Description
1.04	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1637.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.04	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:29:07 PM
End Time: 1/12/2023 1:39:52 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 10029.65
Obtained Intensity (In 115): 67914.79
Obtained Intensity (U 238): 56679.49
Obtained Intensity (Bkgd 220): 0.07
Obtained Formula (Ce++ 70 / Ce 140): 0.025 (=1636.29 / 64240.52)
Obtained Formula (CeO 156 / Ce 140): 0.017 (=1090.58 / 64240.52)
Obtained RSD (Be 9): 0.0152
Obtained RSD (In 115): 0.0084
Obtained RSD (U 238): 0.0037

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.13 mm	-0.48 mm	68683.71

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.04
Obtained Intensity (In 115): 66953.53
Obtained Formula (CeO 156 / Ce 140): 0.0214 (=1325.06 / 62034.40)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.711)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.718)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.971; Intercept = -12.04

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.999; Intercept = -12.96

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:29:07 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 10029.65
		Obtained Intensity (In 115): 67914.79
		Obtained Intensity (U 238): 56679.49
		Obtained Intensity (Bkgd 220): 0.07
		Obtained Formula (Ce++ 70 / Ce 140): 0.025 (=1636.29 / 64240.52)
		Obtained Formula (CeO 156 / Ce 140): 0.017 (=1090.58 / 64240.52)
		Obtained RSD (Be 9): 0.0152
		Obtained RSD (In 115): 0.0084
		Obtained RSD (U 238): 0.0037

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.13 mm	-0.48 mm	68683.71

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 1/1.1/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 66953.53
		Obtained Formula (CeO 156 / Ce 140): 0.0214 (=1325.06 / 62034.40)
[Passed] Optimum value(s): 1.04

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.711)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.718)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.971; Intercept = -12.04

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-12.5	44541.3
Mg	24	41	-12.5	43269.4
In	115	41	-10.5	70079.5
Ce	140	41	-8	67262
Pb	208	41	-7	32885.8
U	238	41	-7	59620.2

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.999; Intercept = -12.96

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	32104
Mg	24	41	-13	25891.4
In	115	41	-9.5	45091
Ce	140	41	-8.5	50798.2
Pb	208	41	-6.5	25486.7
U	238	41	-7	40798.2

End Time: 1/12/2023 1:39:52 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:39:58 PM
End Time: 1/12/2023 1:41:04 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.990; Intercept = -12.64

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:39:58 PM

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.990; Intercept = -12.64

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	45103.1
Mg	24	41	-13	41540.3
In	115	41	-10	68130.1
Ce	140	41	-8	64272.3
Pb	208	41	-7	34810.4
U	238	41	-7	60403.4

End Time: 1/12/2023 1:41:04 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, January 12, 2023 13:41:30
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4944
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	10265.9	10265.889	220.644	2.1	Standard
	In	114.9	70299.7	70299.659	1278.193	1.8	Standard
	U	238.1	59821.7	59821.731	506.916	0.8	Standard
⌈	CeO	155.9	1201.4	0.018	0.000	1.6	Standard
| >	Ce	139.9	66719.9	66719.871	1041.898	1.6	Standard
⌊	Ce++	70.0	1704.8	0.026	0.001	3.1	Standard
	Bkgd	220.0	0.0	0.000	0.000		Standard

Current Conditions File Data

Current Value	Description
1.04	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1637.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.04	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:41:29 PM
End Time: 1/12/2023 1:43:34 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 10265.89
Obtained Intensity (In 115): 70299.66
Obtained Intensity (U 238): 59821.73
Obtained Intensity (Bkgd 220): 0.00
Obtained Formula (Ce++ 70 / Ce 140): 0.026 (=1704.77 / 66719.87)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1201.38 / 66719.87)
Obtained RSD (Be 9): 0.0215
Obtained RSD (In 115): 0.0182
Obtained RSD (U 238): 0.0085

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:41:29 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 1
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 10265.89
Obtained Intensity (In 115): 70299.66
Obtained Intensity (U 238): 59821.73
Obtained Intensity (Bkgd 220): 0.00
Obtained Formula (Ce++ 70 / Ce 140): 0.026 (=1704.77 / 66719.87)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1201.38 / 66719.87)
Obtained RSD (Be 9): 0.0215
Obtained RSD (In 115): 0.0182
Obtained RSD (U 238): 0.0085

[Passed] Optimum value(s): N/A

End Time: 1/12/2023 1:43:34 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:38:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L				766222	1	Standard
⎣	**Be**	**9**		ug/L				7	86	Standard
	C	**13**		ug/L				36839	2	Standard
	Cl	**37**		ug/L				4390964	0	Standard
⎡>	**Sc**	**45**		ug/L				538647	2	Standard
⎢	**Cr**	**52**		ug/L				15443	1	Standard
⎣	**Cr**	**53**		ug/L				178	9	Standard
⎡>	**Ge**	**72**		ug/L				26915	2	KED
⎢	**Ni**	**60**		ug/L				40	32	KED
⎢	**Ni**	**62**		ug/L				6	31	KED
⎢	**Cu**	**63**		ug/L				46	45	KED
⎢	**Cu**	**65**		ug/L				30	32	KED
⎢	**Zn**	**66**		ug/L				35	25	KED
⎢	**Zn**	**67**		ug/L				6	41	KED
⎢	**As**	**75**		ug/L				7	6	KED
⎣	**Se**	**78**		ug/L				14	13	KED
	Y	**89**		ug/L				287925	2	Standard
	Kr	**83**		ug/L				53	18	Standard
⎡>	**In-1**	**115**		ug/L				7687	1	KED
⎢	**Cd**	**111**		ug/L				4	13	KED
⎣	**Cd**	**114**		ug/L				7	53	KED
⎡>	**In**	**115**		ug/L				427037	1	Standard
⎢	**Ag**	**107**		ug/L				100	9	Standard
⎢	**Ba**	**135**		ug/L				78	14	Standard
⎣	**Ba**	**137**		ug/L				142	3	Standard
⎡>	**Tb**	**159**		ug/L				675781	1	Standard
⎣	**Pb**	**208**		ug/L				179	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:43:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	749267	1	Standard
⎣	**Be**	**9**	**0.200**	ug/L	0.011	5	7	1612	6	Standard
	C	**13**		ug/L			36839	43986	2	Standard
	Cl	**37**		ug/L			4390964	4242289	2	Standard
⎡>	**Sc**	**45**		ug/L			538647	530824	2	Standard
⎢	**Cr**	**52**	**0.500**	ug/L	0.005	0	15443	25265	3	Standard
⎣	**Cr**	**53**	**0.500**	ug/L	0.015	2	178	1291	2	Standard
⎡>	**Ge**	**72**		ug/L			26915	27192	0	KED
⎢	**Ni**	**60**	**0.500**	ug/L	0.011	2	40	610	2	KED
⎢	**Ni**	**62**	**0.500**	ug/L	0.048	9	6	102	9	KED
⎢	**Cu**	**63**	**0.500**	ug/L	0.035	6	46	1698	6	KED
⎢	**Cu**	**65**	**0.500**	ug/L	0.029	5	30	777	5	KED
⎢	**Zn**	**66**	**6.000**	ug/L	0.212	3	35	2756	3	KED
⎢	**Zn**	**67**	**6.000**	ug/L	0.177	2	6	375	2	KED
⎢	**As**	**75**	**0.200**	ug/L	0.043	21	7	49	18	KED
⎣	**Se**	**78**	**0.500**	ug/L	0.285	56	14	26	25	KED
	Y	**89**		ug/L			287925	280451	3	Standard
	Kr	**83**		ug/L			53	62	15	Standard
⎡>	**In-1**	**115**		ug/L			7687	7828	1	KED
⎢	**Cd**	**111**	**0.100**	ug/L	0.011	10	4	26	7	KED
⎣	**Cd**	**114**	**0.100**	ug/L	0.018	17	7	53	16	KED
⎡>	**In**	**115**		ug/L			427037	408494	3	Standard
⎢	**Ag**	**107**	**0.200**	ug/L	0.005	2	100	3027	1	Standard
⎢	**Ba**	**135**	**0.500**	ug/L	0.020	3	78	1998	3	Standard
⎣	**Ba**	**137**	**0.500**	ug/L	0.013	2	142	3333	5	Standard
⎡>	**Tb**	**159**		ug/L			675781	674031	1	Standard
⎣	**Pb**	**208**	**0.100**	ug/L	0.003	2	179	5101	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:47:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	726427	3	Standard
⌊	**Be**	**9**	**10.000**	ug/L	0.253	2	7	76651	5	Standard
	C	**13**		ug/L			36839	51352	1	Standard
	Cl	**37**		ug/L			4390964	4190483	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	532341	4	Standard
⌈	**Cr**	**52**	**9.999**	ug/L	0.187	1	15443	206546	3	Standard
⌊	**Cr**	**53**	**10.000**	ug/L	0.218	2	178	22267	5	Standard
⌈>	**Ge**	**72**		ug/L			26915	28378	0	KED
⌈	**Ni**	**60**	**9.998**	ug/L	0.097	0	40	11085	0	KED
⌊	**Ni**	**62**	**9.998**	ug/L	0.084	0	6	1840	1	KED
⌈	**Cu**	**63**	**9.999**	ug/L	0.309	3	46	32912	3	KED
⌊	**Cu**	**65**	**10.001**	ug/L	0.168	1	30	16195	2	KED
⌈	**Zn**	**66**	**9.900**	ug/L	0.160	1	35	4595	2	KED
⌊	**Zn**	**67**	**10.332**	ug/L	0.567	5	6	736	6	KED
⌈	**As**	**75**	**10.000**	ug/L	0.255	2	7	2168	1	KED
⌊	**Se**	**78**	**10.000**	ug/L	0.425	4	14	259	4	KED
	Y	**89**		ug/L			287925	276328	4	Standard
	Kr	**83**		ug/L			53	50	29	Standard
⌈>	**In-1**	**115**		ug/L			7687	8004	1	KED
⌈	**Cd**	**111**	**10.000**	ug/L	0.474	4	4	2540	3	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.555	5	7	6059	4	KED
⌈>	**In**	**115**		ug/L			427037	416644	4	Standard
⌈	**Ag**	**107**	**10.000**	ug/L	0.400	4	100	144529	3	Standard
⌈	**Ba**	**135**	**9.999**	ug/L	0.286	2	78	37533	2	Standard
⌊	**Ba**	**137**	**10.000**	ug/L	0.174	1	142	65461	3	Standard
⌈>	**Tb**	**159**		ug/L			675781	673759	2	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.088	0	179	469128	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:52:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	731224	2	Standard
⌊	**Be**	**9**	**19.828**	ug/L	0.413	2	7	147874	4	Standard
	C	**13**		ug/L			36839	50965	1	Standard
	Cl	**37**		ug/L			4390964	4351704	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	532438	4	Standard
⌈	**Cr**	**52**	**19.904**	ug/L	0.578	2	15443	388864	2	Standard
⌊	**Cr**	**53**	**19.938**	ug/L	0.316	1	178	43675	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	27720	2	KED
⌈	**Ni**	**60**	**19.997**	ug/L	0.505	2	40	21599	1	KED
⌈	**Ni**	**62**	**19.909**	ug/L	0.247	1	6	3509	1	KED
⌈	**Cu**	**63**	**20.014**	ug/L	0.556	2	46	64461	1	KED
⌈	**Cu**	**65**	**20.022**	ug/L	0.111	0	30	31775	2	KED
⌈	**Zn**	**66**	**19.955**	ug/L	1.073	5	35	8944	3	KED
⌈	**Zn**	**67**	**20.129**	ug/L	1.214	6	6	1420	4	KED
⌈	**As**	**75**	**20.009**	ug/L	0.388	1	7	4238	0	KED
⌊	**Se**	**78**	**19.846**	ug/L	1.116	5	14	473	5	KED
	Y	**89**		ug/L			287925	278139	2	Standard
	Kr	**83**		ug/L			53	61	6	Standard
⌈>	**In-1**	**115**		ug/L			7687	7809	2	KED
⌈	**Cd**	**111**	**20.065**	ug/L	0.750	3	4	5034	1	KED
⌊	**Cd**	**114**	**20.075**	ug/L	0.723	3	7	12040	1	KED
⌈>	**In**	**115**		ug/L			427037	417883	3	Standard
⌈	**Ag**	**107**	**20.000**	ug/L	0.234	1	100	290050	3	Standard
⌈	**Ba**	**135**	**19.967**	ug/L	0.193	0	78	74637	2	Standard
⌊	**Ba**	**137**	**20.008**	ug/L	0.261	1	142	131442	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	675064	3	Standard
⌊	**Pb**	**208**	**19.889**	ug/L	0.555	2	179	913755	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:58:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	729892	0	Standard
⌊	**Be**	**9**	**49.807**	ug/L	1.480	2	7	363595	2	Standard
	C	**13**		ug/L			36839	36503	3	Standard
	Cl	**37**		ug/L			4390964	4508448	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	518676	0	Standard
⌈	**Cr**	**52**	**50.024**	ug/L	0.139	0	15443	932387	0	Standard
⌊	**Cr**	**53**	**50.171**	ug/L	0.545	1	178	108701	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26921	0	KED
⌈	**Ni**	**60**	**50.007**	ug/L	1.069	2	40	52448	2	KED
⌈	**Ni**	**62**	**49.996**	ug/L	1.299	2	6	8545	2	KED
⌈	**Cu**	**63**	**49.727**	ug/L	0.842	1	46	151403	1	KED
⌈	**Cu**	**65**	**49.896**	ug/L	1.306	2	30	76068	2	KED
⌈	**Zn**	**66**	**49.471**	ug/L	0.458	0	35	20489	1	KED
⌈	**Zn**	**67**	**50.214**	ug/L	1.966	3	6	3502	3	KED
⌈	**As**	**75**	**49.986**	ug/L	0.365	0	7	10261	0	KED
⌊	**Se**	**78**	**49.769**	ug/L	1.081	2	14	1107	1	KED
	Y	**89**		ug/L			287925	278053	2	Standard
	Kr	**83**		ug/L			53	71	13	Standard
⌈>	**In-1**	**115**		ug/L			7687	7760	1	KED
⌈	**Cd**	**111**	**49.820**	ug/L	0.448	0	4	12202	1	KED
⌊	**Cd**	**114**	**50.128**	ug/L	0.558	1	7	30266	0	KED
⌈>	**In**	**115**		ug/L			427037	411040	2	Standard
⌈	**Ag**	**107**	**49.673**	ug/L	1.849	3	100	685761	2	Standard
⌈	**Ba**	**135**	**49.992**	ug/L	0.277	0	78	183585	1	Standard
⌊	**Ba**	**137**	**49.997**	ug/L	1.127	2	142	322732	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	668197	0	Standard
⌊	**Pb**	**208**	**49.923**	ug/L	0.474	0	179	2254160	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:04:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	713212	5	Standard
⌊	**Be**	**9**	**100.604**	ug/L	4.435	4	7	731261	2	Standard
	C	**13**		ug/L			36839	48732	0	Standard
	Cl	**37**		ug/L			4390964	4602583	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	515531	4	Standard
⌈	**Cr**	**52**	**100.414**	ug/L	1.880	1	15443	1870008	2	Standard
⌊	**Cr**	**53**	**100.284**	ug/L	1.948	1	178	217722	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	26421	5	KED
⌈	**Ni**	**60**	**100.292**	ug/L	0.781	0	40	104183	4	KED
⌈	**Ni**	**62**	**99.672**	ug/L	1.206	1	6	16539	6	KED
⌈	**Cu**	**63**	**100.022**	ug/L	0.630	0	46	299031	4	KED
⌈	**Cu**	**65**	**99.987**	ug/L	1.502	1	30	149502	4	KED
⌈	**Zn**	**66**	**99.769**	ug/L	0.432	0	35	40215	5	KED
⌈	**Zn**	**67**	**99.939**	ug/L	0.753	0	6	6821	5	KED
⌈	**As**	**75**	**100.343**	ug/L	0.670	0	7	20441	4	KED
⌊	**Se**	**78**	**100.816**	ug/L	2.914	2	14	2247	4	KED
	Y	**89**		ug/L			287925	275194	5	Standard
	Kr	**83**		ug/L			53	104	4	Standard
⌈>	**In-1**	**115**		ug/L			7687	7735	1	KED
⌈	**Cd**	**111**	**99.727**	ug/L	2.090	2	4	24127	3	KED
⌊	**Cd**	**114**	**99.307**	ug/L	1.276	1	7	58421	2	KED
⌈>	**In**	**115**		ug/L			427037	407347	3	Standard
⌈	**Ag**	**107**	**100.118**	ug/L	1.666	1	100	1375217	2	Standard
⌈	**Ba**	**135**	**100.456**	ug/L	1.112	1	78	371077	2	Standard
⌊	**Ba**	**137**	**100.613**	ug/L	1.898	1	142	656815	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	671322	4	Standard
⌊	**Pb**	**208**	**99.871**	ug/L	2.608	2	179	4507633	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:12:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	736268	0	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	63	7	20	41	Standard
	C	**13**		ug/L			36839	35959	2	Standard
	Cl	**37**		ug/L			4390964	4365430	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	533734	1	Standard
⌈	**Cr**	**52**	**0.003**	ug/L	0.027	835	15443	15359	1	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.008	92	178	158	11	Standard
⌈>	**Ge**	**72**		ug/L			26915	26679	2	KED
⌈	**Ni**	**60**	**0.003**	ug/L	0.012	383	40	43	31	KED
⌈	**Ni**	**62**	**0.023**	ug/L	0.016	70	6	10	26	KED
⌈	**Cu**	**63**	**-0.007**	ug/L	0.001	16	46	26	14	KED
⌈	**Cu**	**65**	**-0.011**	ug/L	0.001	5	30	13	7	KED
⌈	**Zn**	**66**	**-0.029**	ug/L	0.003	9	35	23	4	KED
⌈	**Zn**	**67**	**-0.072**	ug/L	0.029	39	6	1	100	KED
⌈	**As**	**75**	**0.006**	ug/L	0.001	15	7	8	3	KED
⌊	**Se**	**78**	**0.009**	ug/L	0.100	1163	14	14	16	KED
	Y	**89**		ug/L			287925	279770	0	Standard
	Kr	**83**		ug/L			53	62	26	Standard
⌈>	**In-1**	**115**		ug/L			7687	7380	1	KED
⌈	**Cd**	**111**	**0.005**	ug/L	0.003	54	4	5	10	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.007	106	7	3	100	KED
⌈>	**In**	**115**		ug/L			427037	428595	0	Standard
⌈	**Ag**	**107**	**0.006**	ug/L	0.001	19	100	191	8	Standard
⌈	**Ba**	**135**	**-0.014**	ug/L	0.001	8	78	22	19	Standard
⌊	**Ba**	**137**	**-0.015**	ug/L	0.001	9	142	39	24	Standard
⌈>	**Tb**	**159**		ug/L			675781	676243	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	202	179	183	3	Standard

Sample Information

Sample Date/Time: Thursday, January 12, 2023 16:04:52
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	**0.9999**	0.010	0.20	10	20	50	100
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.036	0.50	10	20	50	100
Cr	53	**1.0000**	0.004	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.039	0.50	10	20	50	100
Ni	62	**1.0000**	0.006	0.50	10	20	50	100
Cu	63	**1.0000**	0.113	0.50	10	20	50	100
Cu	65	**1.0000**	0.057	0.50	10	20	50	100
Zn	66	**0.9999**	0.015	6.00	10	20	50	100
Zn	67	**1.0000**	0.003	6.00	10	20	50	100
As	75	**1.0000**	0.008	0.20	10	20	50	100
Se	78	**0.9999**	0.001	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.031	0.10	10	20	50	100
Cd	114	**0.9999**	0.076	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.034	0.20	10	20	50	100
Ba	135	**1.0000**	0.009	0.50	10	20	50	100
Ba	137	**0.9999**	0.016	0.50	10	20	50	100
Tb	159							
Pb	208	**1.0000**	0.067	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:22:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	723248	2	Standard
⌊	**Be**	**9**	**48.744**	ug/L	1.978	4	7	359631	2	Standard
	C	**13**		ug/L			36839	45004	1	Standard
	Cl	**37**		ug/L			4390964	4607556	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	540750	0	Standard
⌈	**Cr**	**52**	**48.230**	ug/L	0.312	0	15443	950640	0	Standard
⌊	**Cr**	**53**	**47.767**	ug/L	0.486	1	178	108928	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	27213	1	KED
⌈	**Ni**	**60**	**50.194**	ug/L	0.501	0	40	53741	2	KED
⌊	**Ni**	**62**	**51.001**	ug/L	0.978	1	6	8717	3	KED
⌈	**Cu**	**63**	**51.067**	ug/L	1.952	3	46	157351	5	KED
⌊	**Cu**	**65**	**49.922**	ug/L	0.218	0	30	76904	1	KED
⌈	**Zn**	**66**	**49.356**	ug/L	1.404	2	35	20511	4	KED
⌊	**Zn**	**67**	**49.227**	ug/L	1.067	2	6	3464	3	KED
⌈	**As**	**75**	**46.819**	ug/L	1.219	2	7	9830	3	KED
⌊	**Se**	**78**	**75.627**	ug/L	1.604	2	14	1741	3	KED
	Y	**89**		ug/L			287925	286645	1	Standard
	Kr	**83**		ug/L			53	67	20	Standard
⌈>	**In-1**	**115**		ug/L			7687	7769	3	KED
⌈	**Cd**	**111**	**48.479**	ug/L	1.614	3	4	11772	0	KED
⌊	**Cd**	**114**	**49.075**	ug/L	1.551	3	7	28980	1	KED
⌈>	**In**	**115**		ug/L			427037	414887	2	Standard
⌈	**Ag**	**107**	**51.614**	ug/L	1.838	3	100	722029	1	Standard
⌈	**Ba**	**135**	**49.986**	ug/L	0.973	1	78	188105	1	Standard
⌊	**Ba**	**137**	**49.370**	ug/L	0.827	1	142	328400	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	683207	1	Standard
⌊	**Pb**	**208**	**49.679**	ug/L	0.774	1	179	2283329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:29:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	737243	4	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.001	131	7	13	57	Standard
	C	**13**		ug/L			36839	36247	4	Standard
	Cl	**37**		ug/L			4390964	4218819	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	530596	3	Standard
⌈	**Cr**	**52**	**-0.015**	ug/L	0.019	123	15443	14922	4	Standard
⌊	**Cr**	**53**	**-0.011**	ug/L	0.007	59	178	150	8	Standard
⌈>	**Ge**	**72**		ug/L			26915	27228	1	KED
⌈	**Ni**	**60**	**-0.005**	ug/L	0.004	85	40	36	10	KED
⌊	**Ni**	**62**	**0.022**	ug/L	0.027	126	6	10	44	KED
⌈	**Cu**	**63**	**-0.003**	ug/L	0.003	78	46	36	20	KED
⌊	**Cu**	**65**	**-0.010**	ug/L	0.006	57	30	15	57	KED
⌈	**Zn**	**66**	**-0.041**	ug/L	0.012	28	35	19	26	KED
⌊	**Zn**	**67**	**-0.064**	ug/L	0.016	25	6	2	43	KED
⌈	**As**	**75**	**-0.003**	ug/L	0.011	411	7	6	37	KED
⌊	**Se**	**78**	**0.195**	ug/L	0.148	75	14	19	19	KED
	Y	**89**		ug/L			287925	279472	4	Standard
	Kr	**83**		ug/L			53	49	19	Standard
⌈>	**In-1**	**115**		ug/L			7687	7526	4	KED
⌈	**Cd**	**111**	**0.006**	ug/L	0.008	141	4	5	36	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	29	7	3	39	KED
⌈>	**In**	**115**		ug/L			427037	421908	2	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.002	96	100	129	22	Standard
⌈	**Ba**	**135**	**-0.016**	ug/L	0.001	3	78	17	12	Standard
⌊	**Ba**	**137**	**-0.017**	ug/L	0.000	2	142	23	12	Standard
⌈>	**Tb**	**159**		ug/L			675781	677616	3	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	21	179	109	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:34:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	742923	5	Standard
⎣	**Be**	**9**	**50.327**	ug/L	2.569	5	7	381003	2	Standard
	C	**13**		ug/L			36839	37063	0	Standard
	Cl	**37**		ug/L			4390964	4719746	0	Standard
⎡>	**Sc**	**45**		ug/L			538647	537726	2	Standard
⎢	**Cr**	**52**	**49.689**	ug/L	0.696	1	15443	973468	2	Standard
⎣	**Cr**	**53**	**48.975**	ug/L	0.844	1	178	111082	3	Standard
⎡>	**Ge**	**72**		ug/L			26915	26820	0	KED
⎢	**Ni**	**60**	**49.906**	ug/L	1.030	2	40	52657	2	KED
⎢	**Ni**	**62**	**51.599**	ug/L	1.017	1	6	8691	2	KED
⎢	**Cu**	**63**	**50.685**	ug/L	0.550	1	46	153862	1	KED
⎢	**Cu**	**65**	**50.870**	ug/L	0.461	0	30	77231	0	KED
⎢	**Zn**	**66**	**51.051**	ug/L	0.549	1	35	20904	0	KED
⎢	**Zn**	**67**	**50.195**	ug/L	1.088	2	6	3481	2	KED
⎢	**As**	**75**	**50.369**	ug/L	0.256	0	7	10420	0	KED
⎣	**Se**	**78**	**50.272**	ug/L	1.706	3	14	1145	3	KED
	Y	**89**		ug/L			287925	283205	5	Standard
	Kr	**83**		ug/L			53	56	7	Standard
⎡>	**In-1**	**115**		ug/L			7687	7646	0	KED
⎢	**Cd**	**111**	**49.825**	ug/L	0.237	0	4	11915	0	KED
⎣	**Cd**	**114**	**50.089**	ug/L	1.191	2	7	29123	1	KED
⎡>	**In**	**115**		ug/L			427037	422832	2	Standard
⎢	**Ag**	**107**	**49.918**	ug/L	0.752	1	100	712071	3	Standard
⎢	**Ba**	**135**	**49.645**	ug/L	0.980	1	78	190412	1	Standard
⎣	**Ba**	**137**	**48.553**	ug/L	0.649	1	142	329209	1	Standard
⎡>	**Tb**	**159**		ug/L			675781	690687	2	Standard
⎣	**Pb**	**208**	**49.577**	ug/L	1.142	2	179	2303180	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:41:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	722010	3	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	194	7	10	57	Standard
	C	**13**		ug/L			36839	36002	1	Standard
	Cl	**37**		ug/L			4390964	4269003	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	522125	2	Standard
⌈	**Cr**	**52**	**0.014**	ug/L	0.018	129	15443	15234	3	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.004	89	178	163	8	Standard
⌈>	**Ge**	**72**		ug/L			26915	26696	3	KED
⌈	**Ni**	**60**	**-0.004**	ug/L	0.018	501	40	36	46	KED
⌊	**Ni**	**62**	**0.008**	ug/L	0.017	211	6	8	35	KED
⌈	**Cu**	**63**	**-0.006**	ug/L	0.003	44	46	28	24	KED
⌊	**Cu**	**65**	**-0.010**	ug/L	0.004	36	30	15	33	KED
⌈	**Zn**	**66**	**-0.038**	ug/L	0.006	15	35	19	14	KED
⌊	**Zn**	**67**	**-0.053**	ug/L	0.060	113	6	3	124	KED
⌈	**As**	**75**	**0.004**	ug/L	0.006	148	7	7	18	KED
⌊	**Se**	**78**	**0.083**	ug/L	0.056	67	14	16	11	KED
	Y	**89**		ug/L			287925	276339	1	Standard
	Kr	**83**		ug/L			53	58	16	Standard
⌈>	**In-1**	**115**		ug/L			7687	7913	0	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.004	68	4	2	33	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.004	84	7	4	44	KED
⌈>	**In**	**115**		ug/L			427037	427221	1	Standard
⌈	**Ag**	**107**	**0.004**	ug/L	0.001	30	100	151	11	Standard
⌈	**Ba**	**135**	**-0.016**	ug/L	0.001	6	78	17	22	Standard
⌊	**Ba**	**137**	**-0.017**	ug/L	0.001	4	142	28	17	Standard
⌈>	**Tb**	**159**		ug/L			675781	680907	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	4	179	109	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:52:12

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			766222	656771	2	Standard
	Be	**9**	**0.326**	ug/L	0.168	51	7	2183	50	Standard
	C	**13**		ug/L			36839	38142	3	Standard
	Cl	**37**		ug/L			4390964	4104418	0	Standard
>	**Sc**	**45**		ug/L			538647	466133	2	Standard
	Cr	**52**	**0.608**	ug/L	0.139	22	15443	23564	12	Standard
	Cr	**53**	**0.571**	ug/L	0.133	23	178	1280	23	Standard
>	**Ge**	**72**		ug/L			26915	27287	1	KED
	Ni	**60**	**0.450**	ug/L	0.014	3	40	523	1	KED
	Ni	**62**	**0.482**	ug/L	0.093	19	6	89	16	KED
	Cu	**63**	**0.489**	ug/L	0.025	5	46	1558	4	KED
	Cu	**65**	**0.498**	ug/L	0.046	9	30	800	8	KED
	Zn	**66**	**6.214**	ug/L	0.168	2	35	2619	1	KED
	Zn	**67**	**5.322**	ug/L	0.495	9	6	381	7	KED
	As	**75**	**0.175**	ug/L	0.020	11	7	43	9	KED
	Se	**78**	**0.611**	ug/L	0.189	30	14	28	14	KED
	Y	**89**		ug/L			287925	253370	5	Standard
	Kr	**83**		ug/L			53	55	17	Standard
>	**In-1**	**115**		ug/L			7687	7742	3	KED
	Cd	**111**	**0.088**	ug/L	0.030	33	4	25	24	KED
	Cd	**114**	**0.102**	ug/L	0.013	12	7	67	13	KED
>	**In**	**115**		ug/L			427037	383929	5	Standard
	Ag	**107**	**0.317**	ug/L	0.190	59	100	4279	64	Standard
	Ba	**135**	**0.579**	ug/L	0.162	27	78	2104	32	Standard
	Ba	**137**	**0.581**	ug/L	0.175	30	142	3744	35	Standard
>	**Tb**	**159**		ug/L			675781	620663	1	Standard
	Pb	**208**	**0.213**	ug/L	0.194	90	179	9168	91	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:57:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	748071	2	Standard
⌊	**Be**	**9**	**0.211**	ug/L	0.013	6	7	1615	3	Standard
	C	**13**		ug/L			36839	40355	2	Standard
	Cl	**37**		ug/L			4390964	4193727	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	530437	0	Standard
⌈	**Cr**	**52**	**0.485**	ug/L	0.011	2	15443	24429	1	Standard
⌊	**Cr**	**53**	**0.477**	ug/L	0.017	3	178	1241	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	28066	0	KED
⌈	**Ni**	**60**	**0.469**	ug/L	0.025	5	40	559	4	KED
⌈	**Ni**	**62**	**0.514**	ug/L	0.060	11	6	97	10	KED
⌈	**Cu**	**63**	**0.504**	ug/L	0.030	5	46	1650	5	KED
⌈	**Cu**	**65**	**0.485**	ug/L	0.022	4	30	802	5	KED
⌈	**Zn**	**66**	**6.073**	ug/L	0.091	1	35	2635	1	KED
⌈	**Zn**	**67**	**5.280**	ug/L	0.630	11	6	389	12	KED
⌈	**As**	**75**	**0.197**	ug/L	0.027	13	7	50	10	KED
⌊	**Se**	**78**	**0.453**	ug/L	0.097	21	14	25	8	KED
	Y	**89**		ug/L			287925	278460	0	Standard
	Kr	**83**		ug/L			53	61	19	Standard
⌈>	**In-1**	**115**		ug/L			7687	8362	3	KED
⌈	**Cd**	**111**	**0.102**	ug/L	0.005	5	4	31	3	KED
⌊	**Cd**	**114**	**0.057**	ug/L	0.036	62	7	44	53	KED
⌈>	**In**	**115**		ug/L			427037	424954	0	Standard
⌈	**Ag**	**107**	**0.198**	ug/L	0.007	3	100	2940	3	Standard
⌈	**Ba**	**135**	**0.466**	ug/L	0.020	4	78	1872	4	Standard
⌊	**Ba**	**137**	**0.474**	ug/L	0.009	1	142	3369	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	677576	0	Standard
⌊	**Pb**	**208**	**0.101**	ug/L	0.004	4	179	4788	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:03:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	718001	4	Standard
⌊	**Be**	**9**	**0.007**	ug/L	0.001	7	7	60	8	Standard
	C	**13**		ug/L			36839	152416	2	Standard
	Cl	**37**		ug/L			4390964	11106228	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	521469	2	Standard
⌈	**Cr**	**52**	**0.855**	ug/L	0.065	7	15443	30933	4	Standard
⌊	**Cr**	**53**	**5.173**	ug/L	0.093	1	178	11529	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	25636	0	KED
⌈	**Ni**	**60**	**0.080**	ug/L	0.021	25	40	119	17	KED
⌈	**Ni**	**62**	**0.172**	ug/L	0.037	21	6	34	16	KED
⌈	**Cu**	**63**	**0.030**	ug/L	0.003	9	46	132	5	KED
⌈	**Cu**	**65**	**0.021**	ug/L	0.005	22	30	59	11	KED
⌈	**Zn**	**66**	**0.164**	ug/L	0.054	32	35	97	20	KED
⌈	**Zn**	**67**	**0.274**	ug/L	0.133	48	6	24	35	KED
⌈	**As**	**75**	**0.042**	ug/L	0.016	37	7	15	20	KED
⌊	**Se**	**78**	**0.001**	ug/L	0.165	13622	14	13	26	KED
	Y	**89**		ug/L			287925	271550	4	Standard
	Kr	**83**		ug/L			53	155	11	Standard
⌈>	**In-1**	**115**		ug/L			7687	7385	0	KED
⌈	**Cd**	**111**	**0.072**	ug/L	0.017	23	4	20	18	KED
⌊	**Cd**	**114**	**0.051**	ug/L	0.010	18	7	35	14	KED
⌈>	**In**	**115**		ug/L			427037	402111	1	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.000	17	100	128	4	Standard
⌈	**Ba**	**135**	**0.107**	ug/L	0.007	6	78	464	4	Standard
⌊	**Ba**	**137**	**0.097**	ug/L	0.006	5	142	760	5	Standard
⌈>	**Tb**	**159**		ug/L			675781	666208	0	Standard
⌊	**Pb**	**208**	**0.039**	ug/L	0.002	4	179	1920	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:08:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	754940	4	Standard
⌊	**Be**	**9**	**0.009**	ug/L	0.002	25	7	74	20	Standard
	C	**13**		ug/L			36839	155346	3	Standard
	Cl	**37**		ug/L			4390964	11279472	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	546424	1	Standard
⌈	**Cr**	**52**	**20.114**	ug/L	0.159	0	15443	409774	2	Standard
⌊	**Cr**	**53**	**23.800**	ug/L	0.457	1	178	54939	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	25178	0	KED
⌈	**Ni**	**60**	**19.801**	ug/L	0.696	3	40	19633	3	KED
⌈	**Ni**	**62**	**20.389**	ug/L	0.581	2	6	3227	2	KED
⌈	**Cu**	**63**	**20.045**	ug/L	0.196	0	46	57147	0	KED
⌈	**Cu**	**65**	**19.809**	ug/L	0.285	1	30	28248	0	KED
⌈	**Zn**	**66**	**18.638**	ug/L	0.539	2	35	7185	2	KED
⌈	**Zn**	**67**	**16.366**	ug/L	0.703	4	6	1069	4	KED
⌈	**As**	**75**	**19.371**	ug/L	0.266	1	7	3766	0	KED
⌊	**Se**	**78**	**0.174**	ug/L	0.213	122	14	17	26	KED
	Y	**89**		ug/L			287925	283023	1	Standard
	Kr	**83**		ug/L			53	151	6	Standard
⌈>	**In-1**	**115**		ug/L			7687	7179	1	KED
⌈	**Cd**	**111**	**19.129**	ug/L	0.542	2	4	4296	2	KED
⌊	**Cd**	**114**	**19.523**	ug/L	0.409	2	7	10661	0	KED
⌈>	**In**	**115**		ug/L			427037	416515	2	Standard
⌈	**Ag**	**107**	**17.960**	ug/L	0.364	2	100	252344	0	Standard
⌈	**Ba**	**135**	**0.163**	ug/L	0.016	9	78	692	7	Standard
⌊	**Ba**	**137**	**0.156**	ug/L	0.004	2	142	1181	3	Standard
⌈>	**Tb**	**159**		ug/L			675781	680350	0	Standard
⌊	**Pb**	**208**	**0.030**	ug/L	0.001	3	179	1565	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:12:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	736104	3	Standard
⌊	**Be**	**9**	**192.473**	ug/L	12.052	6	7	1444090	3	Standard
	C	**13**		ug/L			36839	45357	2	Standard
	Cl	**37**		ug/L			4390964	4758617	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	533601	2	Standard
⌈	**Cr**	**52**	**186.142**	ug/L	2.925	1	15443	3575992	1	Standard
⌊	**Cr**	**53**	**190.179**	ug/L	4.221	2	178	427444	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	25750	2	KED
⌈	**Ni**	**60**	**195.673**	ug/L	4.904	2	40	198121	4	KED
⌊	**Ni**	**62**	**198.567**	ug/L	6.951	3	6	32073	1	KED
⌈	**Cu**	**63**	**194.450**	ug/L	2.158	1	46	566486	1	KED
⌊	**Cu**	**65**	**192.066**	ug/L	5.620	2	30	279761	1	KED
⌈	**Zn**	**66**	**191.901**	ug/L	1.364	0	35	75350	2	KED
⌊	**Zn**	**67**	**184.222**	ug/L	4.506	2	6	12242	0	KED
⌈	**As**	**75**	**194.717**	ug/L	4.923	2	7	38643	1	KED
⌊	**Se**	**78**	**192.348**	ug/L	5.594	2	14	4165	0	KED
	Y	**89**		ug/L			287925	279563	1	Standard
	Kr	**83**		ug/L			53	152	2	Standard
⌈>	**In-1**	**115**		ug/L			7687	7432	2	KED
⌈	**Cd**	**111**	**190.949**	ug/L	3.911	2	4	44366	0	KED
⌊	**Cd**	**114**	**191.473**	ug/L	3.725	1	7	108186	0	KED
⌈>	**In**	**115**		ug/L			427037	399005	0	Standard
⌈	**Ag**	**107**	**187.804**	ug/L	7.054	3	100	2527569	3	Standard
⌈	**Ba**	**135**	**198.567**	ug/L	2.621	1	78	718620	1	Standard
⌊	**Ba**	**137**	**196.219**	ug/L	4.618	2	142	1255189	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	668490	1	Standard
⌊	**Pb**	**208**	**191.380**	ug/L	2.134	1	179	8607461	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:17:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			766222	652161	2	Standard
	Be	**9**	**280.443**	ug/L	10.612	3	7	1865952	1	Standard
	C	**13**		ug/L			36839	42926	4	Standard
	Cl	**37**		ug/L			4390964	4485595	1	Standard
>	**Sc**	**45**		ug/L			538647	483774	0	Standard
	Cr	**52**	**271.705**	ug/L	1.900	0	15443	4726941	0	Standard
	Cr	**53**	**281.441**	ug/L	4.455	1	178	573401	1	Standard
>	**Ge**	**72**		ug/L			26915	24482	1	KED
	Ni	**60**	**279.435**	ug/L	2.275	0	40	268943	0	KED
	Ni	**62**	**282.643**	ug/L	6.114	2	6	43418	0	KED
	Cu	**63**	**280.622**	ug/L	2.606	0	46	777463	2	KED
	Cu	**65**	**280.193**	ug/L	5.619	2	30	388162	2	KED
	Zn	**66**	**266.331**	ug/L	4.999	1	35	99398	0	KED
	Zn	**67**	**265.169**	ug/L	3.422	1	6	16759	1	KED
	As	**75**	**282.877**	ug/L	3.980	1	7	53394	2	KED
	Se	**78**	**274.011**	ug/L	2.250	0	14	5639	0	KED
	Y	**89**		ug/L			287925	251302	1	Standard
	Kr	**83**		ug/L			53	184	15	Standard
>	**In-1**	**115**		ug/L			7687	7051	2	KED
	Cd	**111**	**277.136**	ug/L	1.593	0	4	61096	1	KED
	Cd	**114**	**278.310**	ug/L	0.980	0	7	149213	2	KED
>	**In**	**115**		ug/L			427037	366036	1	Standard
	Ag	**107**	**277.920**	ug/L	8.281	2	100	3430580	1	Standard
	Ba	**135**	**297.845**	ug/L	10.648	3	78	988530	2	Standard
	Ba	**137**	**295.803**	ug/L	4.573	1	142	1735576	0	Standard
>	**Tb**	**159**		ug/L			675781	628981	0	Standard
	Pb	**208**	**278.405**	ug/L	4.639	1	179	11780280	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:24:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	747005	5	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	50	7	24	30	Standard
	C	**13**		ug/L			36839	38276	5	Standard
	Cl	**37**		ug/L			4390964	4316077	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	512347	1	Standard
⌈	**Cr**	**52**	**-0.002**	ug/L	0.024	1340	15443	14662	4	Standard
⌊	**Cr**	**53**	**0.048**	ug/L	0.004	8	178	273	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	27629	0	KED
⌈	**Ni**	**60**	**-0.009**	ug/L	0.002	22	40	31	6	KED
⌊	**Ni**	**62**	**-0.016**	ug/L	0.013	80	6	4	49	KED
⌈	**Cu**	**63**	**0.007**	ug/L	0.004	66	46	68	19	KED
⌊	**Cu**	**65**	**0.008**	ug/L	0.004	55	30	43	15	KED
⌈	**Zn**	**66**	**0.016**	ug/L	0.018	116	35	43	18	KED
⌊	**Zn**	**67**	**-0.029**	ug/L	0.040	137	6	5	57	KED
⌈	**As**	**75**	**0.012**	ug/L	0.010	79	7	10	21	KED
⌊	**Se**	**78**	**0.156**	ug/L	0.148	95	14	18	19	KED
	Y	**89**		ug/L			287925	269305	2	Standard
	Kr	**83**		ug/L			53	49	21	Standard
⌈>	**In-1**	**115**		ug/L			7687	7673	1	KED
⌈	**Cd**	**111**	**0.001**	ug/L	0.005	351	4	4	24	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.002	45	7	4	21	KED
⌈>	**In**	**115**		ug/L			427037	407833	3	Standard
⌈	**Ag**	**107**	**0.011**	ug/L	0.003	25	100	246	12	Standard
⌈	**Ba**	**135**	**-0.009**	ug/L	0.001	12	78	43	11	Standard
⌊	**Ba**	**137**	**-0.009**	ug/L	0.002	21	142	78	16	Standard
⌈>	**Tb**	**159**		ug/L			675781	659136	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	37	179	264	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:31:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	700762	4	Standard
⌊	**Be**	**9**	**50.701**	ug/L	1.876	3	7	362263	0	Standard
	C	**13**		ug/L			36839	36589	3	Standard
	Cl	**37**		ug/L			4390964	4502376	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	509474	2	Standard
⌈	**Cr**	**52**	**49.500**	ug/L	1.246	2	15443	918861	3	Standard
⌊	**Cr**	**53**	**48.560**	ug/L	0.840	1	178	104311	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	26935	3	KED
⌈	**Ni**	**60**	**48.822**	ug/L	0.450	0	40	51736	3	KED
⌈	**Ni**	**62**	**49.377**	ug/L	0.248	0	6	8352	2	KED
⌈	**Cu**	**63**	**49.488**	ug/L	0.643	1	46	150850	2	KED
⌈	**Cu**	**65**	**49.072**	ug/L	0.826	1	30	74799	1	KED
⌈	**Zn**	**66**	**49.918**	ug/L	0.531	1	35	20525	2	KED
⌈	**Zn**	**67**	**49.585**	ug/L	1.805	3	6	3456	6	KED
⌈	**As**	**75**	**49.253**	ug/L	0.678	1	7	10233	3	KED
⌊	**Se**	**78**	**50.539**	ug/L	1.047	2	14	1155	2	KED
	Y	**89**		ug/L			287925	269792	2	Standard
	Kr	**83**		ug/L			53	63	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7664	2	KED
⌈	**Cd**	**111**	**48.714**	ug/L	0.897	1	4	11675	0	KED
⌊	**Cd**	**114**	**49.761**	ug/L	1.328	2	7	28995	0	KED
⌈>	**In**	**115**		ug/L			427037	399414	1	Standard
⌈	**Ag**	**107**	**50.179**	ug/L	1.272	2	100	675919	1	Standard
⌈	**Ba**	**135**	**49.236**	ug/L	1.174	2	78	178368	0	Standard
⌊	**Ba**	**137**	**48.882**	ug/L	0.574	1	142	313060	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	653942	2	Standard
⌊	**Pb**	**208**	**50.390**	ug/L	1.272	2	179	2216288	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:39:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	741448	5	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	39	7	19	22	Standard
	C	**13**		ug/L			36839	37172	4	Standard
	Cl	**37**		ug/L			4390964	4322135	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	522985	1	Standard
⌈	**Cr**	**52**	**-0.017**	ug/L	0.010	61	15443	14675	2	Standard
⌊	**Cr**	**53**	**0.024**	ug/L	0.010	39	178	227	8	Standard
⌈>	**Ge**	**72**		ug/L			26915	25564	1	KED
⌈	**Ni**	**60**	**0.088**	ug/L	0.030	33	40	126	22	KED
⌊	**Ni**	**62**	**0.062**	ug/L	0.025	40	6	16	24	KED
⌈	**Cu**	**63**	**-0.007**	ug/L	0.003	42	46	25	31	KED
⌊	**Cu**	**65**	**-0.007**	ug/L	0.003	40	30	18	23	KED
⌈	**Zn**	**66**	**-0.054**	ug/L	0.012	22	35	12	37	KED
⌊	**Zn**	**67**	**-0.043**	ug/L	0.001	1	6	3	0	KED
⌈	**As**	**75**	**0.013**	ug/L	0.006	46	7	9	11	KED
⌊	**Se**	**78**	**0.079**	ug/L	0.053	67	14	15	6	KED
	Y	**89**		ug/L			287925	272704	2	Standard
	Kr	**83**		ug/L			53	57	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7549	1	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.006	97	4	2	57	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.000	0	7	1	4	KED
⌈>	**In**	**115**		ug/L			427037	419302	2	Standard
⌈	**Ag**	**107**	**0.003**	ug/L	0.001	43	100	140	10	Standard
⌈	**Ba**	**135**	**-0.016**	ug/L	0.003	17	78	15	68	Standard
⌊	**Ba**	**137**	**-0.016**	ug/L	0.001	5	142	31	18	Standard
⌈>	**Tb**	**159**		ug/L			675781	663059	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	20	179	140	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:44:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	698385	3	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	43	7	20	31	Standard
	C	**13**		ug/L			36839	46187	3	Standard
	Cl	**37**		ug/L			4390964	4126614	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	507665	0	Standard
⌈	**Cr**	**52**	**0.071**	ug/L	0.012	17	15443	15841	0	Standard
⌊	**Cr**	**53**	**0.069**	ug/L	0.004	5	178	315	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	27613	1	KED
⌈	**Ni**	**60**	**0.049**	ug/L	0.007	13	40	95	8	KED
⌊	**Ni**	**62**	**0.051**	ug/L	0.047	93	6	15	49	KED
⌈	**Cu**	**63**	**0.016**	ug/L	0.009	54	46	97	26	KED
⌊	**Cu**	**65**	**0.017**	ug/L	0.002	13	30	57	5	KED
⌈	**Zn**	**66**	**0.355**	ug/L	0.085	24	35	186	20	KED
⌊	**Zn**	**67**	**0.327**	ug/L	0.026	7	6	30	6	KED
⌈	**As**	**75**	**0.007**	ug/L	0.007	112	7	8	19	KED
⌊	**Se**	**78**	**0.102**	ug/L	0.208	205	14	17	28	KED
	Y	**89**		ug/L			287925	264276	1	Standard
	Kr	**83**		ug/L			53	50	10	Standard
⌈>	**In-1**	**115**		ug/L			7687	7826	1	KED
⌈	**Cd**	**111**	**-0.013**	ug/L	0.004	29	4	0	100	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.002	21	7	2	49	KED
⌈>	**In**	**115**		ug/L			427037	402739	0	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.000	24	100	111	4	Standard
⌈	**Ba**	**135**	**0.003**	ug/L	0.001	46	78	85	6	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.005	415	142	142	21	Standard
⌈>	**Tb**	**159**		ug/L			675781	640887	1	Standard
⌊	**Pb**	**208**	**0.010**	ug/L	0.001	11	179	596	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:49:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			766222	756313	6	Standard
⌊	Be	9	24.839	ug/L	1.944	7	7	191133	1	Standard
	C	13		ug/L			36839	50372	2	Standard
	Cl	37		ug/L			4390964	4653719	3	Standard
⌈>	Sc	45		ug/L			538647	534856	2	Standard
⌈	Cr	52	25.209	ug/L	0.613	2	15443	498614	0	Standard
⌊	Cr	53	25.103	ug/L	0.517	2	178	56688	0	Standard
⌈>	Ge	72		ug/L			26915	26441	3	KED
⌈	Ni	60	25.543	ug/L	0.553	2	40	26578	2	KED
⌊	Ni	62	25.712	ug/L	0.870	3	6	4274	5	KED
⌈	Cu	63	25.658	ug/L	0.488	1	46	76775	1	KED
⌊	Cu	65	25.695	ug/L	0.949	3	30	38448	2	KED
⌈	Zn	66	83.015	ug/L	2.524	3	35	33467	0	KED
⌊	Zn	67	75.479	ug/L	1.681	2	6	5154	1	KED
⌈	As	75	25.364	ug/L	0.448	1	7	5174	1	KED
⌊	Se	78	79.972	ug/L	1.092	1	14	1787	2	KED
	Y	89		ug/L			287925	281313	3	Standard
	Kr	83		ug/L			53	69	6	Standard
⌈>	In-1	115		ug/L			7687	7690	1	KED
⌈	Cd	111	25.173	ug/L	0.544	2	4	6056	1	KED
⌊	Cd	114	25.601	ug/L	0.534	2	7	14975	1	KED
⌈>	In	115		ug/L			427037	417015	0	Standard
⌈	Ag	107	25.348	ug/L	0.395	1	100	356619	1	Standard
⌈	Ba	135	25.035	ug/L	0.284	1	78	94755	1	Standard
⌊	Ba	137	24.931	ug/L	0.409	1	142	166790	1	Standard
⌈>	Tb	159		ug/L			675781	680427	2	Standard
⌊	Pb	208	25.262	ug/L	0.634	2	179	1156205	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0190-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:55:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	711999	5	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	52	7	20	32	Standard
	C	**13**		ug/L			36839	45262	4	Standard
	Cl	**37**		ug/L			4390964	7656947	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	521033	4	Standard
⌈	**Cr**	**52**	**114.804**	ug/L	1.127	0	15443	2159254	3	Standard
⌊	**Cr**	**53**	**117.686**	ug/L	1.322	1	178	258324	4	Standard
⌈>	**Ge**	**72**		ug/L			26915	25518	0	KED
⌈	**Ni**	**60**	**2.234**	ug/L	0.069	3	40	2279	2	KED
⌊	**Ni**	**62**	**2.492**	ug/L	0.032	1	6	405	2	KED
⌈	**Cu**	**63**	**9.237**	ug/L	0.108	1	46	26715	0	KED
⌊	**Cu**	**65**	**9.073**	ug/L	0.240	2	30	13127	1	KED
⌈	**Zn**	**66**	**39.651**	ug/L	0.373	0	35	15455	0	KED
⌊	**Zn**	**67**	**35.497**	ug/L	0.696	1	6	2344	2	KED
⌈	**As**	**75**	**0.127**	ug/L	0.017	13	7	31	9	KED
⌊	**Se**	**78**	**0.097**	ug/L	0.090	92	14	15	11	KED
	Y	**89**		ug/L			287925	272874	4	Standard
	Kr	**83**		ug/L			53	81	25	Standard
⌈>	**In-1**	**115**		ug/L			7687	7486	3	KED
⌈	**Cd**	**111**	**0.109**	ug/L	0.005	4	4	29	5	KED
⌊	**Cd**	**114**	**0.103**	ug/L	0.003	3	7	65	4	KED
⌈>	**In**	**115**		ug/L			427037	392017	2	Standard
⌈	**Ag**	**107**	**0.016**	ug/L	0.007	44	100	302	27	Standard
⌈	**Ba**	**135**	**2.518**	ug/L	0.033	1	78	9023	1	Standard
⌊	**Ba**	**137**	**2.482**	ug/L	0.083	3	142	15719	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	661703	4	Standard
⌊	**Pb**	**208**	**0.245**	ug/L	0.010	4	179	11059	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:01:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			766222	717874	4	Standard
	Be	**9**	**0.002**	ug/L	0.001	35	7	19	20	Standard
	C	**13**		ug/L			36839	42818	1	Standard
	Cl	**37**		ug/L			4390964	8140731	1	Standard
>	**Sc**	**45**		ug/L			538647	511276	1	Standard
	Cr	**52**	**1.833**	ug/L	0.018	0	15443	48269	1	Standard
	Cr	**53**	**6.371**	ug/L	0.141	2	178	13881	0	Standard
>	**Ge**	**72**		ug/L			26915	26563	1	KED
	Ni	**60**	**1.292**	ug/L	0.035	2	40	1389	3	KED
	Ni	**62**	**1.349**	ug/L	0.133	9	6	231	9	KED
	Cu	**63**	**0.742**	ug/L	0.011	1	46	2277	0	KED
	Cu	**65**	**0.729**	ug/L	0.029	4	30	1126	3	KED
	Zn	**66**	**62.328**	ug/L	0.962	1	35	25269	1	KED
	Zn	**67**	**55.942**	ug/L	2.340	4	6	3840	3	KED
	As	**75**	**0.228**	ug/L	0.019	8	7	53	5	KED
	Se	**78**	**0.467**	ug/L	0.083	17	14	24	8	KED
	Y	**89**		ug/L			287925	265515	2	Standard
	Kr	**83**		ug/L			53	46	9	Standard
>	**In-1**	**115**		ug/L			7687	7487	3	KED
	Cd	**111**	**0.035**	ug/L	0.022	63	4	12	39	KED
	Cd	**114**	**0.026**	ug/L	0.010	38	7	21	24	KED
>	**In**	**115**		ug/L			427037	387575	1	Standard
	Ag	**107**	**-0.000**	ug/L	0.002	718	100	87	27	Standard
	Ba	**135**	**2.562**	ug/L	0.020	0	78	9076	0	Standard
	Ba	**137**	**2.605**	ug/L	0.082	3	142	16310	3	Standard
>	**Tb**	**159**		ug/L			675781	650380	1	Standard
	Pb	**208**	**0.231**	ug/L	0.004	1	179	10276	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:05:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	730988	1	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	47	7	19	29	Standard
	C	**13**		ug/L			36839	42041	1	Standard
	Cl	**37**		ug/L			4390964	5770322	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	523298	1	Standard
⌈	**Cr**	**52**	**1.233**	ug/L	0.036	2	15443	38141	2	Standard
⌊	**Cr**	**53**	**3.754**	ug/L	0.091	2	178	8445	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	26451	0	KED
⌈	**Ni**	**60**	**0.953**	ug/L	0.074	7	40	1030	6	KED
⌊	**Ni**	**62**	**1.010**	ug/L	0.146	14	6	174	14	KED
⌈	**Cu**	**63**	**1.717**	ug/L	0.004	0	46	5185	1	KED
⌊	**Cu**	**65**	**1.679**	ug/L	0.030	1	30	2543	0	KED
⌈	**Zn**	**66**	**92.026**	ug/L	2.400	2	35	37139	3	KED
⌊	**Zn**	**67**	**80.522**	ug/L	3.120	3	6	5503	3	KED
⌈	**As**	**75**	**0.244**	ug/L	0.036	14	7	56	12	KED
⌊	**Se**	**78**	**0.202**	ug/L	0.146	71	14	18	16	KED
	Y	**89**		ug/L			287925	276939	1	Standard
	Kr	**83**		ug/L			53	55	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7259	1	KED
⌈	**Cd**	**111**	**0.058**	ug/L	0.014	23	4	17	20	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.007	21	7	23	16	KED
⌈>	**In**	**115**		ug/L			427037	406438	1	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.001	46	100	121	8	Standard
⌈	**Ba**	**135**	**1.861**	ug/L	0.064	3	78	6933	1	Standard
⌊	**Ba**	**137**	**1.870**	ug/L	0.037	1	142	12317	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	676477	2	Standard
⌊	**Pb**	**208**	**0.694**	ug/L	0.033	4	179	31735	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0435-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:12:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	706457	3	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.000	10	7	17	6	Standard
	C	**13**		ug/L			36839	57678	1	Standard
	Cl	**37**		ug/L			4390964	4380616	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	628947	1	Standard
⌈	**Cr**	**52**	**0.655**	ug/L	0.024	3	15443	32806	1	Standard
⌊	**Cr**	**53**	**1.120**	ug/L	0.010	0	178	3174	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	27674	7	KED
⌈	**Ni**	**60**	**0.554**	ug/L	0.043	7	40	642	5	KED
⌈	**Ni**	**62**	**0.535**	ug/L	0.167	31	6	99	27	KED
⌈	**Cu**	**63**	**0.255**	ug/L	0.033	13	46	840	5	KED
⌈	**Cu**	**65**	**0.268**	ug/L	0.028	10	30	448	2	KED
⌈	**Zn**	**66**	**0.262**	ug/L	0.026	9	35	147	11	KED
⌈	**Zn**	**67**	**0.798**	ug/L	0.217	27	6	63	17	KED
⌈	**As**	**75**	**1.038**	ug/L	0.093	9	7	227	2	KED
⌊	**Se**	**78**	**0.283**	ug/L	0.053	18	14	21	9	KED
	Y	**89**		ug/L			287925	267618	1	Standard
	Kr	**83**		ug/L			53	55	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7450	0	KED
⌈	**Cd**	**111**	**0.009**	ug/L	0.002	26	4	6	9	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.004	40	7	12	17	KED
⌈>	**In**	**115**		ug/L			427037	391168	2	Standard
⌈	**Ag**	**107**	**0.016**	ug/L	0.002	10	100	299	5	Standard
⌈	**Ba**	**135**	**4.602**	ug/L	0.020	0	78	16397	2	Standard
⌊	**Ba**	**137**	**4.528**	ug/L	0.099	2	142	28519	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	639111	1	Standard
⌊	**Pb**	**208**	**0.018**	ug/L	0.001	5	179	945	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-DUP3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:17:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	710228	1	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	213	7	10	65	Standard
	C	**13**		ug/L			36839	58341	2	Standard
	Cl	**37**		ug/L			4390964	4432878	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	645303	1	Standard
⌈	**Cr**	**52**	**0.669**	ug/L	0.026	3	15443	33984	1	Standard
⌊	**Cr**	**53**	**1.136**	ug/L	0.026	2	178	3300	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26091	1	KED
⌈	**Ni**	**60**	**0.658**	ug/L	0.076	11	40	713	8	KED
⌈	**Ni**	**62**	**0.661**	ug/L	0.019	2	6	114	2	KED
⌈	**Cu**	**63**	**0.174**	ug/L	0.011	6	46	558	4	KED
⌈	**Cu**	**65**	**0.169**	ug/L	0.001	0	30	278	2	KED
⌈	**Zn**	**66**	**0.155**	ug/L	0.012	8	35	95	4	KED
⌈	**Zn**	**67**	**0.767**	ug/L	0.029	3	6	58	4	KED
⌈	**As**	**75**	**1.197**	ug/L	0.050	4	7	247	4	KED
⌊	**Se**	**78**	**0.173**	ug/L	0.076	43	14	17	10	KED
	Y	**89**		ug/L			287925	270448	3	Standard
	Kr	**83**		ug/L			53	50	18	Standard
⌈>	**In-1**	**115**		ug/L			7687	7204	2	KED
⌈	**Cd**	**111**	**-0.005**	ug/L	0.004	89	4	2	33	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.005	98	7	4	67	KED
⌈>	**In**	**115**		ug/L			427037	389102	2	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	172	100	80	19	Standard
⌈	**Ba**	**135**	**4.722**	ug/L	0.084	1	78	16728	1	Standard
⌊	**Ba**	**137**	**4.814**	ug/L	0.188	3	142	30134	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	647892	1	Standard
⌊	**Pb**	**208**	**0.015**	ug/L	0.001	7	179	808	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-MS3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:22:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			766222	724025	4	Standard
[	Be	9	24.450	ug/L	0.915	3	7	180504	0	Standard
	C	13		ug/L			36839	60891	3	Standard
	Cl	37		ug/L			4390964	4584220	3	Standard
[>	Sc	45		ug/L			538647	665408	3	Standard
[	Cr	52	20.498	ug/L	0.360	1	15443	507991	1	Standard
[	Cr	53	20.820	ug/L	0.211	1	178	58550	3	Standard
[>	Ge	72		ug/L			26915	25546	2	KED
[	Ni	60	25.638	ug/L	0.744	2	40	25777	2	KED
[	Ni	62	26.237	ug/L	1.180	4	6	4210	3	KED
[	Cu	63	24.969	ug/L	0.529	2	46	72191	0	KED
[	Cu	65	24.639	ug/L	0.706	2	30	35634	2	KED
[	Zn	66	76.143	ug/L	2.049	2	35	29669	1	KED
[	Zn	67	71.738	ug/L	4.010	5	6	4731	3	KED
[	As	75	26.241	ug/L	0.970	3	7	5172	2	KED
[	Se	78	75.372	ug/L	0.782	1	14	1628	1	KED
	Y	89		ug/L			287925	275379	2	Standard
	Kr	83		ug/L			53	80	8	Standard
[>	In-1	115		ug/L			7687	6905	1	KED
[	Cd	111	25.029	ug/L	0.276	1	4	5407	1	KED
[	Cd	114	25.332	ug/L	0.848	3	7	13302	2	KED
[>	In	115		ug/L			427037	397838	1	Standard
[	Ag	107	23.808	ug/L	0.418	1	100	319621	3	Standard
[	Ba	135	29.935	ug/L	0.518	1	78	108059	1	Standard
[	Ba	137	30.215	ug/L	0.351	1	142	192831	2	Standard
[>	Tb	159		ug/L			675781	658846	3	Standard
[	Pb	208	25.017	ug/L	0.703	2	179	1108444	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-MSD3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:27:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	677222	4	Standard
[	**Be**	**9**	**24.529**	ug/L	1.184	4	7	169448	4	Standard
	C	**13**		ug/L			36839	55239	1	Standard
	Cl	**37**		ug/L			4390964	4386594	2	Standard
[>	**Sc**	**45**		ug/L			538647	615458	1	Standard
[	**Cr**	**52**	**20.328**	ug/L	0.299	1	15443	466215	0	Standard
[	**Cr**	**53**	**20.669**	ug/L	0.346	1	178	53761	1	Standard
[>	**Ge**	**72**		ug/L			26915	23951	0	KED
[	**Ni**	**60**	**25.491**	ug/L	0.353	1	40	24035	1	KED
[	**Ni**	**62**	**24.795**	ug/L	0.500	2	6	3732	1	KED
[	**Cu**	**63**	**24.124**	ug/L	0.092	0	46	65420	1	KED
[	**Cu**	**65**	**24.713**	ug/L	0.467	1	30	33519	1	KED
[	**Zn**	**66**	**74.839**	ug/L	0.603	0	35	27353	1	KED
[	**Zn**	**67**	**69.452**	ug/L	1.699	2	6	4298	1	KED
[	**As**	**75**	**25.678**	ug/L	0.514	2	7	4746	1	KED
[	**Se**	**78**	**72.989**	ug/L	3.409	4	14	1479	4	KED
	Y	**89**		ug/L			287925	250881	1	Standard
	Kr	**83**		ug/L			53	78	12	Standard
[>	**In-1**	**115**		ug/L			7687	6736	2	KED
[	**Cd**	**111**	**24.354**	ug/L	0.377	1	4	5131	1	KED
[	**Cd**	**114**	**24.377**	ug/L	0.729	2	7	12485	1	KED
[>	**In**	**115**		ug/L			427037	370625	0	Standard
[	**Ag**	**107**	**22.849**	ug/L	0.474	2	100	285700	1	Standard
[	**Ba**	**135**	**30.658**	ug/L	0.282	0	78	103113	0	Standard
[	**Ba**	**137**	**30.167**	ug/L	0.539	1	142	179340	1	Standard
[>	**Tb**	**159**		ug/L			675781	616557	1	Standard
[	**Pb**	**208**	**24.987**	ug/L	0.730	2	179	1036244	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:31:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	742626	0	Standard
⎣	**Be**	**9**	**-0.000**	ug/L	0.000	518	7	6	31	Standard
	C	**13**		ug/L			36839	40869	2	Standard
	Cl	**37**		ug/L			4390964	4240211	1	Standard
⎡>	**Sc**	**45**		ug/L			538647	527506	2	Standard
⎢	**Cr**	**52**	**-0.001**	ug/L	0.024	1862	15443	15091	1	Standard
⎣	**Cr**	**53**	**0.046**	ug/L	0.007	14	178	277	5	Standard
⎡>	**Ge**	**72**		ug/L			26915	27124	3	KED
⎢	**Ni**	**60**	**0.018**	ug/L	0.006	35	40	59	8	KED
⎢	**Ni**	**62**	**0.026**	ug/L	0.021	80	6	11	28	KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.001	92	46	45	7	KED
⎢	**Cu**	**65**	**-0.000**	ug/L	0.006	1355	30	29	26	KED
⎢	**Zn**	**66**	**0.001**	ug/L	0.019	1447	35	36	18	KED
⎢	**Zn**	**67**	**0.054**	ug/L	0.059	109	6	10	36	KED
⎢	**As**	**75**	**0.009**	ug/L	0.007	75	7	9	18	KED
⎣	**Se**	**78**	**0.051**	ug/L	0.200	392	14	15	29	KED
	Y	**89**		ug/L			287925	280009	2	Standard
	Kr	**83**		ug/L			53	66	26	Standard
⎡>	**In-1**	**115**		ug/L			7687	7908	2	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.004	69	4	2	33	KED
⎣	**Cd**	**114**	**-0.004**	ug/L	0.005	112	7	4	58	KED
⎡>	**In**	**115**		ug/L			427037	418765	1	Standard
⎢	**Ag**	**107**	**0.001**	ug/L	0.000	25	100	106	1	Standard
⎢	**Ba**	**135**	**-0.008**	ug/L	0.002	29	78	45	20	Standard
⎣	**Ba**	**137**	**-0.009**	ug/L	0.003	34	142	81	23	Standard
⎡>	**Tb**	**159**		ug/L			675781	662254	1	Standard
⎣	**Pb**	**208**	**-0.000**	ug/L	0.000	109	179	165	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 18:36:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	728565	1	Standard
⌊	**Be**	**9**	**50.252**	ug/L	2.139	4	7	373626	3	Standard
	C	**13**		ug/L			36839	38459	2	Standard
	Cl	**37**		ug/L			4390964	4527669	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	508033	2	Standard
⌈	**Cr**	**52**	**49.888**	ug/L	1.304	2	15443	923057	1	Standard
⌊	**Cr**	**53**	**49.329**	ug/L	1.277	2	178	105672	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	27580	6	KED
⌈	**Ni**	**60**	**47.092**	ug/L	3.898	8	40	50914	2	KED
⌊	**Ni**	**62**	**47.114**	ug/L	4.640	9	6	8126	3	KED
⌈	**Cu**	**63**	**47.405**	ug/L	3.398	7	46	147506	0	KED
⌊	**Cu**	**65**	**46.225**	ug/L	3.953	8	30	71909	3	KED
⌈	**Zn**	**66**	**47.968**	ug/L	4.242	8	35	20120	1	KED
⌊	**Zn**	**67**	**46.577**	ug/L	3.995	8	6	3312	5	KED
⌈	**As**	**75**	**47.199**	ug/L	3.794	8	7	10006	1	KED
⌊	**Se**	**78**	**47.409**	ug/L	4.675	9	14	1106	2	KED
	Y	**89**		ug/L			287925	268980	1	Standard
	Kr	**83**		ug/L			53	58	20	Standard
⌈>	**In-1**	**115**		ug/L			7687	7507	2	KED
⌈	**Cd**	**111**	**50.186**	ug/L	0.872	1	4	11786	3	KED
⌊	**Cd**	**114**	**50.793**	ug/L	1.152	2	7	29006	3	KED
⌈>	**In**	**115**		ug/L			427037	397823	1	Standard
⌈	**Ag**	**107**	**50.203**	ug/L	0.173	0	100	673712	1	Standard
⌈	**Ba**	**135**	**49.164**	ug/L	0.027	0	78	177449	1	Standard
⌊	**Ba**	**137**	**48.555**	ug/L	0.256	0	142	309758	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	652802	1	Standard
⌊	**Pb**	**208**	**49.739**	ug/L	0.370	0	179	2184826	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:44:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	736842	4	Standard
⎣	**Be**	**9**	**49.412**	ug/L	2.337	4	7	371385	4	Standard
	C	**13**		ug/L			36839	38351	3	Standard
	Cl	**37**		ug/L			4390964	4665353	1	Standard
⎡>	**Sc**	**45**		ug/L			538647	509755	2	Standard
⎢	**Cr**	**52**	**49.905**	ug/L	1.404	2	15443	926825	4	Standard
⎣	**Cr**	**53**	**49.796**	ug/L	0.695	1	178	107059	3	Standard
⎡>	**Ge**	**72**		ug/L			26915	27111	3	KED
⎢	**Ni**	**60**	**47.602**	ug/L	1.645	3	40	50730	0	KED
⎢	**Ni**	**62**	**47.989**	ug/L	1.963	4	6	8163	1	KED
⎢	**Cu**	**63**	**47.807**	ug/L	2.336	4	46	146588	3	KED
⎢	**Cu**	**65**	**47.183**	ug/L	1.487	3	30	72358	0	KED
⎢	**Zn**	**66**	**48.816**	ug/L	2.360	4	35	20184	1	KED
⎢	**Zn**	**67**	**48.579**	ug/L	3.288	6	6	3401	4	KED
⎢	**As**	**75**	**47.839**	ug/L	2.013	4	7	9995	1	KED
⎣	**Se**	**78**	**48.143**	ug/L	1.969	4	14	1108	2	KED
	Y	**89**		ug/L			287925	273441	3	Standard
	Kr	**83**		ug/L			53	70	12	Standard
⎡>	**In-1**	**115**		ug/L			7687	7552	2	KED
⎢	**Cd**	**111**	**50.028**	ug/L	0.959	1	4	11813	1	KED
⎣	**Cd**	**114**	**49.797**	ug/L	0.862	1	7	28598	2	KED
⎡>	**In**	**115**		ug/L			427037	399410	2	Standard
⎢	**Ag**	**107**	**50.754**	ug/L	1.338	2	100	684195	5	Standard
⎢	**Ba**	**135**	**48.909**	ug/L	0.212	0	78	177218	2	Standard
⎣	**Ba**	**137**	**49.294**	ug/L	0.446	0	142	315682	2	Standard
⎡>	**Tb**	**159**		ug/L			675781	657885	3	Standard
⎣	**Pb**	**208**	**49.804**	ug/L	1.175	2	179	2203545	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:51:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	735602	3	Standard
⎣	**Be**	**9**	**0.000**	ug/L	0.000	141	7	8	13	Standard
	C	**13**		ug/L			36839	37393	1	Standard
	Cl	**37**		ug/L			4390964	4308048	2	Standard
⎡>	**Sc**	**45**		ug/L			538647	514699	2	Standard
⎢	**Cr**	**52**	**0.020**	ug/L	0.029	146	15443	15112	1	Standard
⎣	**Cr**	**53**	**0.024**	ug/L	0.008	35	178	221	8	Standard
⎡>	**Ge**	**72**		ug/L			26915	27806	4	KED
⎢	**Ni**	**60**	**0.041**	ug/L	0.014	34	40	86	14	KED
⎢	**Ni**	**62**	**0.027**	ug/L	0.033	119	6	12	48	KED
⎢	**Cu**	**63**	**-0.008**	ug/L	0.003	45	46	24	43	KED
⎢	**Cu**	**65**	**-0.010**	ug/L	0.001	14	30	16	17	KED
⎢	**Zn**	**66**	**-0.046**	ug/L	0.007	15	35	17	22	KED
⎢	**Zn**	**67**	**-0.019**	ug/L	0.073	387	6	5	88	KED
⎢	**As**	**75**	**0.008**	ug/L	0.005	64	7	9	13	KED
⎣	**Se**	**78**	**0.048**	ug/L	0.181	374	14	15	24	KED
	Y	**89**		ug/L			287925	272565	2	Standard
	Kr	**83**		ug/L			53	52	18	Standard
⎡>	**In-1**	**115**		ug/L			7687	7545	0	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.006	97	4	2	57	KED
⎣	**Cd**	**114**	**-0.012**	ug/L	0.002	14	7	0	190	KED
⎡>	**In**	**115**		ug/L			427037	409371	2	Standard
⎢	**Ag**	**107**	**0.002**	ug/L	0.001	47	100	118	9	Standard
⎢	**Ba**	**135**	**-0.016**	ug/L	0.002	10	78	14	39	Standard
⎣	**Ba**	**137**	**-0.015**	ug/L	0.001	5	142	41	9	Standard
⎡>	**Tb**	**159**		ug/L			675781	648574	2	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	17	179	120	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:57:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	743289	1	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	62	7	19	40	Standard
	C	**13**		ug/L			36839	53109	1	Standard
	Cl	**37**		ug/L			4390964	10966788	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	536108	2	Standard
⌈	**Cr**	**52**	**4.617**	ug/L	0.165	3	15443	104069	0	Standard
⌊	**Cr**	**53**	**11.935**	ug/L	0.244	2	178	27116	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	25689	1	KED
⌈	**Ni**	**60**	**3.114**	ug/L	0.095	3	40	3183	2	KED
⌊	**Ni**	**62**	**3.410**	ug/L	0.166	4	6	556	4	KED
⌈	**Cu**	**63**	**3.220**	ug/L	0.085	2	46	9403	2	KED
⌊	**Cu**	**65**	**3.178**	ug/L	0.073	2	30	4647	1	KED
⌈	**Zn**	**66**	**297.201**	ug/L	3.485	1	35	116396	0	KED
⌊	**Zn**	**67**	**266.434**	ug/L	2.015	0	6	17670	1	KED
⌈	**As**	**75**	**0.770**	ug/L	0.054	7	7	159	6	KED
⌊	**Se**	**78**	**0.676**	ug/L	0.216	31	14	28	15	KED
	Y	**89**		ug/L			287925	274130	1	Standard
	Kr	**83**		ug/L			53	54	21	Standard
⌈>	**In-1**	**115**		ug/L			7687	7037	3	KED
⌈	**Cd**	**111**	**0.181**	ug/L	0.033	18	4	43	19	KED
⌊	**Cd**	**114**	**0.196**	ug/L	0.020	10	7	111	6	KED
⌈>	**In**	**115**		ug/L			427037	395664	1	Standard
⌈	**Ag**	**107**	**0.003**	ug/L	0.001	19	100	139	7	Standard
⌈	**Ba**	**135**	**10.427**	ug/L	0.148	1	78	37483	0	Standard
⌊	**Ba**	**137**	**10.515**	ug/L	0.164	1	142	66816	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	663937	0	Standard
⌊	**Pb**	**208**	**0.603**	ug/L	0.021	3	179	27104	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:02:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	756237	0	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.001	66	7	15	34	Standard
	C	**13**		ug/L			36839	52548	0	Standard
	Cl	**37**		ug/L			4390964	9592443	4	Standard
⌈>	**Sc**	**45**		ug/L			538647	531020	0	Standard
⌈	**Cr**	**52**	**3.052**	ug/L	0.114	3	15443	73332	3	Standard
⌊	**Cr**	**53**	**9.671**	ug/L	0.103	1	178	21797	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	26077	1	KED
⌈	**Ni**	**60**	**1.244**	ug/L	0.072	5	40	1315	6	KED
⌈	**Ni**	**62**	**1.368**	ug/L	0.139	10	6	230	9	KED
⌈	**Cu**	**63**	**2.226**	ug/L	0.060	2	46	6614	4	KED
⌈	**Cu**	**65**	**2.196**	ug/L	0.086	3	30	3269	3	KED
⌈	**Zn**	**66**	**61.347**	ug/L	0.686	1	35	24418	1	KED
⌈	**Zn**	**67**	**57.036**	ug/L	2.611	4	6	3845	5	KED
⌈	**As**	**75**	**0.363**	ug/L	0.019	5	7	80	6	KED
⌊	**Se**	**78**	**0.231**	ug/L	0.244	105	14	19	28	KED
	Y	**89**		ug/L			287925	271267	1	Standard
	Kr	**83**		ug/L			53	66	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7361	0	KED
⌈	**Cd**	**111**	**0.015**	ug/L	0.003	17	4	7	7	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.007	847	7	6	58	KED
⌈>	**In**	**115**		ug/L			427037	395943	0	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	180	100	84	18	Standard
⌈	**Ba**	**135**	**10.874**	ug/L	0.176	1	78	39115	1	Standard
⌊	**Ba**	**137**	**10.615**	ug/L	0.106	1	142	67503	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	662287	2	Standard
⌊	**Pb**	**208**	**0.312**	ug/L	0.010	3	179	14092	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0191-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:07:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	726244	4	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.000	227	7	8	44	Standard
	C	**13**		ug/L			36839	50246	1	Standard
	Cl	**37**		ug/L			4390964	8156909	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	514478	1	Standard
⌈	**Cr**	**52**	**1.264**	ug/L	0.038	2	15443	38057	1	Standard
⌊	**Cr**	**53**	**6.893**	ug/L	0.206	2	178	15099	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	26365	4	KED
⌈	**Ni**	**60**	**0.892**	ug/L	0.046	5	40	963	2	KED
⌊	**Ni**	**62**	**0.838**	ug/L	0.093	11	6	145	10	KED
⌈	**Cu**	**63**	**0.312**	ug/L	0.004	1	46	977	5	KED
⌊	**Cu**	**65**	**0.315**	ug/L	0.016	5	30	498	1	KED
⌈	**Zn**	**66**	**8.826**	ug/L	0.246	2	35	3579	2	KED
⌊	**Zn**	**67**	**9.563**	ug/L	0.420	4	6	657	4	KED
⌈	**As**	**75**	**0.265**	ug/L	0.019	7	7	60	7	KED
⌊	**Se**	**78**	**0.333**	ug/L	0.180	53	14	21	15	KED
	Y	**89**		ug/L			287925	264846	1	Standard
	Kr	**83**		ug/L			53	50	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7399	0	KED
⌈	**Cd**	**111**	**-0.002**	ug/L	0.005	228	4	3	31	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.005	133	7	4	59	KED
⌈>	**In**	**115**		ug/L			427037	381624	1	Standard
⌈	**Ag**	**107**	**-0.002**	ug/L	0.001	55	100	67	19	Standard
⌈	**Ba**	**135**	**11.702**	ug/L	0.226	1	78	40560	0	Standard
⌊	**Ba**	**137**	**11.512**	ug/L	0.182	1	142	70545	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	642539	3	Standard
⌊	**Pb**	**208**	**0.061**	ug/L	0.002	3	179	2803	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:14:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	736408	3	Standard
	Be	9	0.000	ug/L	0.001	789	7	8	93	Standard
	C	13		ug/L			36839	50347	0	Standard
	Cl	37		ug/L			4390964	8267196	1	Standard
>	Sc	45		ug/L			538647	518876	0	Standard
	Cr	52	1.246	ug/L	0.020	1	15443	38055	0	Standard
	Cr	53	6.802	ug/L	0.124	1	178	15032	1	Standard
>	Ge	72		ug/L			26915	24954	1	KED
	Ni	60	0.870	ug/L	0.033	3	40	890	1	KED
	Ni	62	0.871	ug/L	0.020	2	6	142	3	KED
	Cu	63	0.315	ug/L	0.016	5	46	933	5	KED
	Cu	65	0.312	ug/L	0.035	11	30	468	10	KED
	Zn	66	9.225	ug/L	0.273	2	35	3540	1	KED
	Zn	67	9.587	ug/L	0.529	5	6	623	3	KED
	As	75	0.304	ug/L	0.016	5	7	65	6	KED
	Se	78	0.315	ug/L	0.106	33	14	19	9	KED
	Y	89		ug/L			287925	265094	1	Standard
	Kr	83		ug/L			53	59	12	Standard
>	In-1	115		ug/L			7687	7034	1	KED
	Cd	111	0.007	ug/L	0.003	36	4	5	10	KED
	Cd	114	0.003	ug/L	0.008	289	7	8	49	KED
>	In	115		ug/L			427037	391374	1	Standard
	Ag	107	-0.002	ug/L	0.002	78	100	66	29	Standard
	Ba	135	11.016	ug/L	0.055	0	78	39169	1	Standard
	Ba	137	10.952	ug/L	0.220	2	142	68825	0	Standard
>	Tb	159		ug/L			675781	641278	0	Standard
	Pb	208	0.064	ug/L	0.003	4	179	2909	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:19:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			766222	751827	4	Standard
[	Be	9	23.654	ug/L	0.867	3	7	181365	1	Standard
	C	13		ug/L			36839	53210	1	Standard
	Cl	37		ug/L			4390964	8403110	3	Standard
[>	Sc	45		ug/L			538647	532874	2	Standard
[	Cr	52	25.916	ug/L	0.336	1	15443	510384	1	Standard
[	Cr	53	28.549	ug/L	0.427	1	178	64213	1	Standard
[>	Ge	72		ug/L			26915	25773	1	KED
[	Ni	60	25.810	ug/L	0.508	1	40	26187	2	KED
[	Ni	62	26.931	ug/L	0.355	1	6	4361	1	KED
[	Cu	63	25.545	ug/L	0.198	0	46	74535	1	KED
[	Cu	65	25.150	ug/L	0.081	0	30	36709	2	KED
[	Zn	66	84.706	ug/L	1.272	1	35	33306	1	KED
[	Zn	67	78.523	ug/L	1.671	2	6	5228	0	KED
[	As	75	25.367	ug/L	0.346	1	7	5045	0	KED
[	Se	78	75.121	ug/L	2.309	3	14	1637	1	KED
	Y	89		ug/L			287925	279350	1	Standard
	Kr	83		ug/L			53	88	25	Standard
[>	In-1	115		ug/L			7687	7021	2	KED
[	Cd	111	24.919	ug/L	0.192	0	4	5475	2	KED
[	Cd	114	24.417	ug/L	0.132	0	7	13043	2	KED
[>	In	115		ug/L			427037	388670	0	Standard
[	Ag	107	24.614	ug/L	0.249	1	100	322795	1	Standard
[	Ba	135	37.012	ug/L	0.098	0	78	130535	1	Standard
[	Ba	137	37.464	ug/L	0.705	1	142	233568	2	Standard
[>	Tb	159		ug/L			675781	664809	2	Standard
[	Pb	208	24.608	ug/L	0.631	2	179	1100344	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:23:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	726911	4	Standard
	Be	9	24.199	ug/L	1.182	4	7	179387	3	Standard
	C	13		ug/L			36839	53507	1	Standard
	Cl	37		ug/L			4390964	8166185	2	Standard
>	Sc	45		ug/L			538647	527968	3	Standard
	Cr	52	25.897	ug/L	0.178	0	15443	505351	2	Standard
	Cr	53	28.119	ug/L	0.479	1	178	62671	3	Standard
>	Ge	72		ug/L			26915	25855	1	KED
	Ni	60	25.915	ug/L	0.714	2	40	26372	1	KED
	Ni	62	26.849	ug/L	1.297	4	6	4360	3	KED
	Cu	63	25.871	ug/L	0.515	1	46	75715	0	KED
	Cu	65	25.410	ug/L	0.498	1	30	37195	0	KED
	Zn	66	85.468	ug/L	1.679	1	35	33708	0	KED
	Zn	67	80.826	ug/L	3.280	4	6	5398	3	KED
	As	75	25.584	ug/L	0.447	1	7	5105	0	KED
	Se	78	76.238	ug/L	3.545	4	14	1666	3	KED
	Y	89		ug/L			287925	271289	2	Standard
	Kr	83		ug/L			53	93	16	Standard
>	In-1	115		ug/L			7687	7249	2	KED
	Cd	111	24.571	ug/L	0.730	2	4	5570	2	KED
	Cd	114	24.579	ug/L	0.313	1	7	13551	1	KED
>	In	115		ug/L			427037	391727	1	Standard
	Ag	107	24.401	ug/L	0.433	1	100	322486	2	Standard
	Ba	135	37.405	ug/L	0.312	0	78	132960	2	Standard
	Ba	137	37.285	ug/L	0.793	2	142	234224	1	Standard
>	Tb	159		ug/L			675781	663708	2	Standard
	Pb	208	24.736	ug/L	0.443	1	179	1104347	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:32:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	912346	1	Standard
⌊	**Be**	**9**	**0.018**	ug/L	0.003	16	7	179	15	Standard
	C	**13**		ug/L			36839	67964	2	Standard
	Cl	**37**		ug/L			4390964	4919248	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	602487	1	Standard
⌈	**Cr**	**52**	**5.314**	ug/L	0.101	1	15443	132053	1	Standard
⌊	**Cr**	**53**	**5.457**	ug/L	0.128	2	178	14039	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	25000	1	KED
⌈	**Ni**	**60**	**0.398**	ug/L	0.026	6	40	429	5	KED
⌊	**Ni**	**62**	**0.356**	ug/L	0.044	12	6	62	9	KED
⌈	**Cu**	**63**	**6.924**	ug/L	0.075	1	46	19629	1	KED
⌊	**Cu**	**65**	**6.852**	ug/L	0.059	0	30	9720	1	KED
⌈	**Zn**	**66**	**2.973**	ug/L	0.136	4	35	1165	4	KED
⌊	**Zn**	**67**	**2.941**	ug/L	0.392	13	6	196	12	KED
⌈	**As**	**75**	**0.077**	ug/L	0.036	47	7	21	32	KED
⌊	**Se**	**78**	**0.073**	ug/L	0.106	146	14	14	14	KED
	Y	**89**		ug/L			287925	293961	1	Standard
	Kr	**83**		ug/L			53	58	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7037	0	KED
⌈	**Cd**	**111**	**0.069**	ug/L	0.027	38	4	19	31	KED
⌊	**Cd**	**114**	**0.071**	ug/L	0.019	26	7	44	23	KED
⌈>	**In**	**115**		ug/L			427037	407246	1	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	90	100	87	9	Standard
⌈	**Ba**	**135**	**1.533**	ug/L	0.038	2	78	5737	1	Standard
⌊	**Ba**	**137**	**1.576**	ug/L	0.005	0	142	10425	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	667021	1	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	12	179	565	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:37:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	780703	0	Standard
	Be	9	0.001	ug/L	0.000	27	7	18	15	Standard
	C	13		ug/L			36839	55740	2	Standard
	Cl	37		ug/L			4390964	4760158	2	Standard
>	Sc	45		ug/L			538647	586311	0	Standard
	Cr	52	8.624	ug/L	0.091	1	15443	198112	0	Standard
	Cr	53	8.735	ug/L	0.167	1	178	21755	0	Standard
>	Ge	72		ug/L			26915	24887	1	KED
	Ni	60	0.239	ug/L	0.025	10	40	271	8	KED
	Ni	62	0.386	ug/L	0.048	12	6	66	10	KED
	Cu	63	6.676	ug/L	0.168	2	46	18839	2	KED
	Cu	65	6.520	ug/L	0.102	1	30	9211	2	KED
	Zn	66	1.565	ug/L	0.173	11	35	626	9	KED
	Zn	67	1.404	ug/L	0.311	22	6	96	19	KED
	As	75	0.052	ug/L	0.006	10	7	16	7	KED
	Se	78	0.168	ug/L	0.098	58	14	16	12	KED
	Y	89		ug/L			287925	287175	0	Standard
	Kr	83		ug/L			53	53	10	Standard
>	In-1	115		ug/L			7687	6838	2	KED
	Cd	111	0.010	ug/L	0.005	50	4	5	16	KED
	Cd	114	-0.006	ug/L	0.004	56	7	3	56	KED
>	In	115		ug/L			427037	398019	0	Standard
	Ag	107	-0.002	ug/L	0.001	52	100	67	20	Standard
	Ba	135	1.604	ug/L	0.025	1	78	5862	1	Standard
	Ba	137	1.630	ug/L	0.032	1	142	10535	1	Standard
>	Tb	159		ug/L			675781	646052	1	Standard
	Pb	208	0.011	ug/L	0.001	11	179	642	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:42:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	821976	2	Standard
[	**Be**	**9**	**0.000**	ug/L	0.000	4384	7	8	48	Standard
	C	**13**		ug/L			36839	58274	2	Standard
	Cl	**37**		ug/L			4390964	4796965	2	Standard
[>	**Sc**	**45**		ug/L			538647	575786	2	Standard
[	**Cr**	**52**	**4.265**	ug/L	0.110	2	15443	104523	1	Standard
[	**Cr**	**53**	**4.287**	ug/L	0.028	0	178	10584	2	Standard
[>	**Ge**	**72**		ug/L			26915	25056	1	KED
[	**Ni**	**60**	**0.274**	ug/L	0.020	7	40	307	6	KED
[	**Ni**	**62**	**0.351**	ug/L	0.047	13	6	61	10	KED
[	**Cu**	**63**	**5.490**	ug/L	0.069	1	46	15606	0	KED
[	**Cu**	**65**	**5.463**	ug/L	0.205	3	30	7772	2	KED
[	**Zn**	**66**	**1.111**	ug/L	0.083	7	35	457	7	KED
[	**Zn**	**67**	**1.127**	ug/L	0.174	15	6	79	14	KED
[	**As**	**75**	**0.049**	ug/L	0.010	19	7	16	10	KED
[	**Se**	**78**	**0.183**	ug/L	0.089	48	14	17	11	KED
	Y	**89**		ug/L			287925	288859	2	Standard
	Kr	**83**		ug/L			53	62	10	Standard
[>	**In-1**	**115**		ug/L			7687	6945	1	KED
[	**Cd**	**111**	**-0.003**	ug/L	0.005	208	4	3	34	KED
[	**Cd**	**114**	**-0.006**	ug/L	0.000	4	7	3	2	KED
[>	**In**	**115**		ug/L			427037	393264	2	Standard
[	**Ag**	**107**	**-0.004**	ug/L	0.001	25	100	41	32	Standard
[	**Ba**	**135**	**1.978**	ug/L	0.036	1	78	7125	0	Standard
[	**Ba**	**137**	**1.934**	ug/L	0.053	2	142	12318	2	Standard
[>	**Tb**	**159**		ug/L			675781	642706	3	Standard
[	**Pb**	**208**	**0.008**	ug/L	0.002	19	179	516	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-03RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:47:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	774703	3	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.001	59	7	15	33	Standard
	C	**13**		ug/L			36839	43423	2	Standard
	Cl	**37**		ug/L			4390964	6080299	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	538459	1	Standard
⌈	**Cr**	**52**	**1.046**	ug/L	0.063	6	15443	35630	2	Standard
⌊	**Cr**	**53**	**3.161**	ug/L	0.048	1	178	7344	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	27407	3	KED
⌈	**Ni**	**60**	**0.698**	ug/L	0.047	6	40	792	3	KED
⌈	**Ni**	**62**	**0.658**	ug/L	0.090	13	6	120	9	KED
⌈	**Cu**	**63**	**0.726**	ug/L	0.010	1	46	2298	4	KED
⌈	**Cu**	**65**	**0.702**	ug/L	0.032	4	30	1120	6	KED
⌈	**Zn**	**66**	**71.328**	ug/L	2.504	3	35	29811	1	KED
⌈	**Zn**	**67**	**65.341**	ug/L	2.161	3	6	4625	1	KED
⌈	**As**	**75**	**0.160**	ug/L	0.025	15	7	40	11	KED
⌊	**Se**	**78**	**0.004**	ug/L	0.105	2356	14	14	13	KED
	Y	**89**		ug/L			287925	280000	1	Standard
	Kr	**83**		ug/L			53	48	23	Standard
⌈>	**In-1**	**115**		ug/L			7687	7155	0	KED
⌈	**Cd**	**111**	**0.048**	ug/L	0.015	30	4	14	22	KED
⌊	**Cd**	**114**	**0.044**	ug/L	0.019	43	7	30	34	KED
⌈>	**In**	**115**		ug/L			427037	400380	0	Standard
⌈	**Ag**	**107**	**-0.002**	ug/L	0.000	20	100	60	11	Standard
⌈	**Ba**	**135**	**2.101**	ug/L	0.026	1	78	7701	0	Standard
⌊	**Ba**	**137**	**2.077**	ug/L	0.031	1	142	13464	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	646508	1	Standard
⌊	**Pb**	**208**	**0.139**	ug/L	0.005	3	179	6207	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:53:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	797678	4	Standard
⌊	**Be**	**9**	**50.420**	ug/L	3.534	7	7	409745	2	Standard
	C	**13**		ug/L			36839	40863	3	Standard
	Cl	**37**		ug/L			4390964	4839629	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	566405	2	Standard
⌈	**Cr**	**52**	**48.841**	ug/L	1.149	2	15443	1007853	0	Standard
⌊	**Cr**	**53**	**48.106**	ug/L	1.945	4	178	114842	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26784	1	KED
⌈	**Ni**	**60**	**51.196**	ug/L	0.675	1	40	53944	1	KED
⌊	**Ni**	**62**	**51.771**	ug/L	1.197	2	6	8707	1	KED
⌈	**Cu**	**63**	**52.533**	ug/L	0.204	0	46	159260	1	KED
⌊	**Cu**	**65**	**51.399**	ug/L	0.336	0	30	77929	1	KED
⌈	**Zn**	**66**	**51.373**	ug/L	1.302	2	35	21006	2	KED
⌊	**Zn**	**67**	**50.463**	ug/L	2.336	4	6	3493	3	KED
⌈	**As**	**75**	**49.584**	ug/L	0.472	0	7	10244	1	KED
⌊	**Se**	**78**	**50.237**	ug/L	0.659	1	14	1142	0	KED
	Y	**89**		ug/L			287925	295022	1	Standard
	Kr	**83**		ug/L			53	65	14	Standard
⌈>	**In-1**	**115**		ug/L			7687	7443	1	KED
⌈	**Cd**	**111**	**51.461**	ug/L	0.271	0	4	11979	1	KED
⌊	**Cd**	**114**	**50.886**	ug/L	0.898	1	7	28802	0	KED
⌈>	**In**	**115**		ug/L			427037	424855	1	Standard
⌈	**Ag**	**107**	**49.020**	ug/L	0.600	1	100	702505	1	Standard
⌈	**Ba**	**135**	**47.893**	ug/L	0.836	1	78	184584	0	Standard
⌊	**Ba**	**137**	**47.266**	ug/L	1.177	2	142	321984	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	673995	1	Standard
⌊	**Pb**	**208**	**50.717**	ug/L	1.557	3	179	2299094	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:00:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	774985	5	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	240	7	6	45	Standard
	C	**13**		ug/L			36839	41009	7	Standard
	Cl	**37**		ug/L			4390964	4455865	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	545509	2	Standard
⌈	**Cr**	**52**	**0.008**	ug/L	0.035	422	15443	15802	5	Standard
⌊	**Cr**	**53**	**0.044**	ug/L	0.003	5	178	281	4	Standard
⌈>	**Ge**	**72**		ug/L			26915	27073	3	KED
⌈	**Ni**	**60**	**-0.009**	ug/L	0.013	147	40	31	41	KED
⌊	**Ni**	**62**	**0.026**	ug/L	0.039	148	6	11	57	KED
⌈	**Cu**	**63**	**-0.007**	ug/L	0.002	26	46	24	26	KED
⌊	**Cu**	**65**	**-0.011**	ug/L	0.001	11	30	13	15	KED
⌈	**Zn**	**66**	**-0.051**	ug/L	0.017	33	35	14	45	KED
⌊	**Zn**	**67**	**-0.038**	ug/L	0.055	145	6	4	89	KED
⌈	**As**	**75**	**0.011**	ug/L	0.005	45	7	9	7	KED
⌊	**Se**	**78**	**-0.027**	ug/L	0.086	317	14	13	10	KED
	Y	**89**		ug/L			287925	286699	0	Standard
	Kr	**83**		ug/L			53	53	19	Standard
⌈>	**In-1**	**115**		ug/L			7687	7508	1	KED
⌈	**Cd**	**111**	**-0.012**	ug/L	0.002	19	4	1	43	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	25	7	3	34	KED
⌈>	**In**	**115**		ug/L			427037	419721	1	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.001	311	100	94	14	Standard
⌈	**Ba**	**135**	**-0.015**	ug/L	0.001	5	78	19	17	Standard
⌊	**Ba**	**137**	**-0.016**	ug/L	0.001	4	142	30	16	Standard
⌈>	**Tb**	**159**		ug/L			675781	661696	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	32	179	116	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:09:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				38749	0	Standard
	Cl	**37**		ug/L				4373298	0	Standard
⎡>	**Sc**	**45**		ug/L				544532	2	Standard
⎢	**Cr**	**52**		ug/L				15553	1	Standard
⎣	**Cr**	**53**		ug/L				269	1	Standard
⎡>	**Ge**	**72**		ug/L				26846	0	KED
⎢	**Cu**	**63**		ug/L				27	28	KED
⎢	**Cu**	**65**		ug/L				13	69	KED
⎢	**Zn**	**66**		ug/L				22	24	KED
⎢	**Zn**	**67**		ug/L				3	86	KED
⎣	**As**	**75**		ug/L				6	4	KED
	Y	**89**		ug/L				285357	0	Standard
	Kr	**83**		ug/L				53	21	Standard
⎡>	**In-1**	**115**		ug/L				7783	3	KED
⎢	**Cd**	**111**		ug/L				3	41	KED
⎣	**Cd**	**114**		ug/L				5	67	KED
⎡>	**In**	**115**		ug/L				420460	0	Standard
⎣	**Ag**	**107**		ug/L				62	16	Standard
⎡>	**Tb**	**159**		ug/L				655044	1	Standard
⎣	**Pb**	**208**		ug/L				75	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:14:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	38090	1	Standard
	Cl	**37**		ug/L			4373298	4577464	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	545775	1	Standard
|	**Cr**	**52**	**48.528**	ug/L	0.983	2	15553	965437	3	Standard
⌊	**Cr**	**53**	**48.032**	ug/L	0.311	0	269	110639	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26812	0	KED
|	**Cu**	**63**	**51.540**	ug/L	0.266	0	27	156393	1	KED
|	**Cu**	**65**	**51.032**	ug/L	0.859	1	13	77432	1	KED
|	**Zn**	**66**	**52.777**	ug/L	0.848	1	22	21590	1	KED
|	**Zn**	**67**	**49.918**	ug/L	1.646	3	3	3458	3	KED
⌊	**As**	**75**	**50.482**	ug/L	0.469	0	6	10440	0	KED
	Y	**89**		ug/L			285357	282671	2	Standard
	Kr	**83**		ug/L			53	63	19	Standard
⌈>	**In-1**	**115**		ug/L			7783	7197	1	KED
|	**Cd**	**111**	**50.185**	ug/L	0.807	1	3	11294	1	KED
⌊	**Cd**	**114**	**50.894**	ug/L	1.155	2	5	27850	1	KED
⌈>	**In**	**115**		ug/L			420460	412709	1	Standard
⌊	**Ag**	**107**	**49.501**	ug/L	0.808	1	62	689142	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	665426	1	Standard
⌊	**Pb**	**208**	**50.709**	ug/L	1.267	2	75	2269930	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:21:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	39198	0	Standard
	Cl	**37**		ug/L			4373298	4343461	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	536172	3	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.031	155	15553	15682	2	Standard
⌊	**Cr**	**53**	**-0.020**	ug/L	0.009	43	269	220	7	Standard
⌈>	**Ge**	**72**		ug/L			26846	26546	1	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	102	27	23	16	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	108	13	20	35	KED
|	**Zn**	**66**	**-0.018**	ug/L	0.008	41	22	14	19	KED
|	**Zn**	**67**	**0.020**	ug/L	0.059	301	3	5	78	KED
⌊	**As**	**75**	**0.014**	ug/L	0.008	56	6	9	15	KED
	Y	**89**		ug/L			285357	284792	1	Standard
	Kr	**83**		ug/L			53	52	2	Standard
⌈>	**In-1**	**115**		ug/L			7783	7757	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.008	105	3	1	124	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.003	50	5	1	123	KED
⌈>	**In**	**115**		ug/L			420460	427056	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	20	62	85	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	653515	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	61	75	101	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:26:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	58344	3	Standard
	Cl	**37**		ug/L			4373298	4263896	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	539725	4	Standard
|	**Cr**	**52**	**0.088**	ug/L	0.010	11	15553	17122	3	Standard
⌊	**Cr**	**53**	**0.015**	ug/L	0.006	40	269	302	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	26368	2	KED
|	**Cu**	**63**	**0.025**	ug/L	0.007	30	27	101	24	KED
|	**Cu**	**65**	**0.023**	ug/L	0.003	13	13	47	12	KED
|	**Zn**	**66**	**0.405**	ug/L	0.020	4	22	184	5	KED
|	**Zn**	**67**	**0.347**	ug/L	0.049	14	3	27	10	KED
⌊	**As**	**75**	**0.003**	ug/L	0.007	233	6	7	19	KED
	Y	**89**		ug/L			285357	285701	4	Standard
	Kr	**83**		ug/L			53	59	21	Standard
⌈>	**In-1**	**115**		ug/L			7783	7662	0	KED
|	**Cd**	**111**	**0.003**	ug/L	0.009	319	3	4	53	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	59	5	2	99	KED
⌈>	**In**	**115**		ug/L			420460	420772	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	7	62	77	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	646587	1	Standard
⌊	**Pb**	**208**	**0.036**	ug/L	0.003	7	75	1635	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:31:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53484	2	Standard
	Cl	**37**		ug/L			4373298	4386594	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	558105	1	Standard
|	**Cr**	**52**	**25.966**	ug/L	0.498	1	15553	535527	1	Standard
⌊	**Cr**	**53**	**25.514**	ug/L	0.088	0	269	60231	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27120	2	KED
|	**Cu**	**63**	**27.463**	ug/L	0.347	1	27	84289	1	KED
|	**Cu**	**65**	**26.770**	ug/L	0.670	2	13	41107	4	KED
|	**Zn**	**66**	**83.393**	ug/L	1.396	1	22	34502	3	KED
|	**Zn**	**67**	**75.694**	ug/L	1.250	1	3	5300	1	KED
⌊	**As**	**75**	**25.103**	ug/L	0.196	0	6	5255	2	KED
	Y	**89**		ug/L			285357	290322	0	Standard
	Kr	**83**		ug/L			53	66	28	Standard
⌈>	**In-1**	**115**		ug/L			7783	7965	1	KED
|	**Cd**	**111**	**25.705**	ug/L	0.249	0	3	6404	0	KED
⌊	**Cd**	**114**	**25.842**	ug/L	1.013	3	5	15652	2	KED
⌈>	**In**	**115**		ug/L			420460	428519	1	Standard
⌊	**Ag**	**107**	**26.572**	ug/L	0.397	1	62	384078	0	Standard
⌈>	**Tb**	**159**		ug/L			655044	672287	2	Standard
⌊	**Pb**	**208**	**27.254**	ug/L	0.735	2	75	1232199	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:35:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	48169	0	Standard
	Cl	37		ug/L			4373298	4350216	1	Standard
⌈>	Sc	45		ug/L			544532	538380	4	Standard
|	Cr	52	0.043	ug/L	0.014	32	15553	16207	3	Standard
⌊	Cr	53	-0.006	ug/L	0.009	145	269	252	3	Standard
⌈>	Ge	72		ug/L			26846	28199	1	KED
|	Cu	63	0.084	ug/L	0.003	3	27	297	4	KED
|	Cu	65	0.098	ug/L	0.010	9	13	170	10	KED
|	Zn	66	0.546	ug/L	0.041	7	22	257	5	KED
|	Zn	67	0.591	ug/L	0.046	7	3	46	6	KED
⌊	As	75	0.012	ug/L	0.015	128	6	9	33	KED
	Y	89		ug/L			285357	280586	4	Standard
	Kr	83		ug/L			53	48	17	Standard
⌈>	In-1	115		ug/L			7783	7833	3	KED
|	Cd	111	0.004	ug/L	0.010	256	3	4	53	KED
⌊	Cd	114	-0.002	ug/L	0.004	212	5	4	44	KED
⌈>	In	115		ug/L			420460	417966	4	Standard
⌊	Ag	107	0.004	ug/L	0.001	22	62	123	9	Standard
⌈>	Tb	159		ug/L			655044	659631	3	Standard
⌊	Pb	208	0.056	ug/L	0.001	2	75	2541	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:39:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	48048	1	Standard
	Cl	37		ug/L			4373298	4388511	5	Standard
⌈>	Sc	45		ug/L			544532	554424	1	Standard
|	Cr	52	24.971	ug/L	0.344	1	15553	512202	0	Standard
⌊	Cr	53	25.143	ug/L	0.669	2	269	58957	2	Standard
⌈>	Ge	72		ug/L			26846	27851	1	KED
|	Cu	63	26.906	ug/L	0.774	2	27	84802	1	KED
|	Cu	65	26.106	ug/L	0.472	1	13	41151	0	KED
|	Zn	66	83.282	ug/L	2.233	2	22	35371	1	KED
|	Zn	67	76.524	ug/L	2.580	3	3	5502	2	KED
⌊	As	75	24.940	ug/L	0.578	2	6	5360	1	KED
	Y	89		ug/L			285357	292300	1	Standard
	Kr	83		ug/L			53	58	24	Standard
⌈>	In-1	115		ug/L			7783	7574	1	KED
|	Cd	111	25.372	ug/L	0.645	2	3	6010	0	KED
⌊	Cd	114	25.419	ug/L	0.331	1	5	14645	2	KED
⌈>	In	115		ug/L			420460	430116	2	Standard
⌊	Ag	107	25.708	ug/L	0.722	2	62	372868	0	Standard
⌈>	Tb	159		ug/L			655044	665828	1	Standard
⌊	Pb	208	26.796	ug/L	0.226	0	75	1200306	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0328-17RE1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:44:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	59818	3	Standard
	Cl	37		ug/L			4373298	4538044	1	Standard
>	Sc	45		ug/L			544532	630380	4	Standard
	Cr	52	30.718	ug/L	0.356	1	15553	712212	3	Standard
	Cr	53	30.618	ug/L	0.333	1	269	81549	3	Standard
>	Ge	72		ug/L			26846	27906	2	KED
	Cu	63	625.494	ug/L	3.218	0	27	1975205	3	KED
	Cu	65	616.225	ug/L	7.088	1	13	973065	2	KED
	Zn	66	228.517	ug/L	3.276	1	22	97205	1	KED
	Zn	67	205.127	ug/L	3.059	1	3	14773	1	KED
	As	75	8.548	ug/L	0.146	1	6	1845	1	KED
	Y	89		ug/L			285357	467923	4	Standard
	Kr	83		ug/L			53	109	4	Standard
>	In-1	115		ug/L			7783	7679	2	KED
	Cd	111	0.393	ug/L	0.013	3	3	97	0	KED
	Cd	114	0.380	ug/L	0.045	11	5	227	8	KED
>	In	115		ug/L			420460	422799	1	Standard
	Ag	107	0.172	ug/L	0.010	6	62	2512	7	Standard
>	Tb	159		ug/L			655044	678316	4	Standard
	Pb	208	126.420	ug/L	2.040	1	75	5767564	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:52:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	52083	1	Standard
	Cl	37		ug/L			4373298	4550764	2	Standard
>	Sc	45		ug/L			544532	612694	2	Standard
	Cr	52	20.329	ug/L	0.225	1	15553	464034	1	Standard
	Cr	53	20.621	ug/L	0.348	1	269	53484	1	Standard
>	Ge	72		ug/L			26846	27804	2	KED
	Cu	63	508.763	ug/L	8.302	1	27	1600281	0	KED
	Cu	65	507.261	ug/L	19.060	3	13	797685	1	KED
	Zn	66	181.592	ug/L	4.780	2	22	76952	0	KED
	Zn	67	164.663	ug/L	9.360	5	3	11809	3	KED
	As	75	7.027	ug/L	0.136	1	6	1512	0	KED
	Y	89		ug/L			285357	424552	2	Standard
	Kr	83		ug/L			53	96	4	Standard
>	In-1	115		ug/L			7783	8047	0	KED
	Cd	111	0.234	ug/L	0.039	16	3	62	15	KED
	Cd	114	0.253	ug/L	0.046	18	5	160	17	KED
>	In	115		ug/L			420460	430369	2	Standard
	Ag	107	0.166	ug/L	0.008	5	62	2477	5	Standard
>	Tb	159		ug/L			655044	687911	1	Standard
	Pb	208	56.232	ug/L	0.929	1	75	2602104	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:56:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	54071	0	Standard
	Cl	37		ug/L			4373298	4522522	1	Standard
>	Sc	45		ug/L			544532	601568	3	Standard
	Cr	52	55.490	ug/L	1.179	2	15553	1213691	1	Standard
	Cr	53	55.449	ug/L	0.626	1	269	140724	2	Standard
>	Ge	72		ug/L			26846	26612	2	KED
	Cu	63	722.262	ug/L	15.212	2	27	2174287	1	KED
	Cu	65	704.624	ug/L	10.041	1	13	1061278	3	KED
	Zn	66	345.772	ug/L	8.173	2	22	140217	0	KED
	Zn	67	315.466	ug/L	6.638	2	3	21660	0	KED
	As	75	33.178	ug/L	0.463	1	6	6811	1	KED
	Y	89		ug/L			285357	436240	1	Standard
	Kr	83		ug/L			53	104	4	Standard
>	In-1	115		ug/L			7783	7811	2	KED
	Cd	111	25.431	ug/L	0.099	0	3	6214	2	KED
	Cd	114	25.308	ug/L	0.774	3	5	15035	3	KED
>	In	115		ug/L			420460	414417	3	Standard
	Ag	107	22.208	ug/L	0.571	2	62	310498	4	Standard
>	Tb	159		ug/L			655044	668577	4	Standard
	Pb STL	208	100.793	ug/L	3.673	3	75	4529260	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:01:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	54832	1	Standard
	Cl	37		ug/L			4373298	4588147	1	Standard
>	Sc	45		ug/L			544532	602445	3	Standard
	Cr	52	54.715	ug/L	1.595	2	15553	1198428	0	Standard
	Cr	53	55.188	ug/L	1.650	2	269	140190	0	Standard
>	Ge	72		ug/L			26846	26816	3	KED
	Cu	63	939.535	ug/L	18.345	1	27	2849594	1	KED
	Cu	65	928.960	ug/L	18.348	1	13	1409026	1	KED
	Zn	66	390.414	ug/L	10.384	2	22	159533	2	KED
	Zn	67	346.776	ug/L	6.381	1	3	23992	1	KED
	As	75	34.162	ug/L	0.429	1	6	7066	2	KED
	Y	89		ug/L			285357	450820	2	Standard
	Kr	83		ug/L			53	120	7	Standard
>	In-1	115		ug/L			7783	7527	2	KED
	Cd	111	26.005	ug/L	0.515	1	3	6124	3	KED
	Cd	114	25.560	ug/L	0.289	1	5	14635	3	KED
>	In	115		ug/L			420460	423255	2	Standard
	Ag	107	24.480	ug/L	0.381	1	62	349489	2	Standard
>	Tb	159		ug/L			655044	674491	1	Standard
	Pb STL	208	218.951	ug/L	2.288	1	75	9934463	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-02
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:06:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56723	2	Standard
	Cl	**37**		ug/L			4373298	4159333	0	Standard
⌈>	**Sc**	**45**		ug/L			544532	587519	0	Standard
|	**Cr**	**52**	**7.317**	ug/L	0.137	1	15553	170901	0	Standard
⌊	**Cr**	**53**	**7.251**	ug/L	0.060	0	269	18226	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	27201	1	KED
|	**Cu**	**63**	**18.141**	ug/L	0.091	0	27	55865	1	KED
|	**Cu**	**65**	**17.904**	ug/L	0.282	1	13	27570	1	KED
|	**Zn**	**66**	**37.705**	ug/L	0.130	0	22	15655	1	KED
|	**Zn**	**67**	**36.393**	ug/L	1.331	3	3	2557	2	KED
⌊	**As**	**75**	**3.565**	ug/L	0.196	5	6	754	3	KED
	Y	**89**		ug/L			285357	395815	0	Standard
	Kr	**83**		ug/L			53	96	6	Standard
⌈>	**In-1**	**115**		ug/L			7783	7594	1	KED
|	**Cd**	**111**	**0.187**	ug/L	0.008	4	3	47	4	KED
⌊	**Cd**	**114**	**0.165**	ug/L	0.018	10	5	100	9	KED
⌈>	**In**	**115**		ug/L			420460	413871	1	Standard
⌊	**Ag**	**107**	**0.226**	ug/L	0.010	4	62	3209	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	665549	2	Standard
⌊	**Pb**	**208**	**14.605**	ug/L	0.308	2	75	653828	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:11:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	40021	0	Standard
	Cl	**37**		ug/L			4373298	4088119	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	508293	4	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.005	110	15553	14442	3	Standard
⌊	**Cr**	**53**	**-0.039**	ug/L	0.007	19	269	169	12	Standard
⌈>	**Ge**	**72**		ug/L			26846	27199	1	KED
|	**Cu**	**63**	**0.013**	ug/L	0.005	37	27	66	20	KED
|	**Cu**	**65**	**0.013**	ug/L	0.005	42	13	33	25	KED
|	**Zn**	**66**	**0.030**	ug/L	0.034	112	22	34	39	KED
|	**Zn**	**67**	**0.035**	ug/L	0.056	158	3	6	62	KED
⌊	**As**	**75**	**0.002**	ug/L	0.010	498	6	7	26	KED
	Y	**89**		ug/L			285357	273023	2	Standard
	Kr	**83**		ug/L			53	50	30	Standard
⌈>	**In-1**	**115**		ug/L			7783	7546	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.005	153	3	4	26	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.008	826	5	4	96	KED
⌈>	**In**	**115**		ug/L			420460	404873	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	54	62	67	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	639841	3	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	17	75	211	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:15:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37536	1	Standard
	Cl	**37**		ug/L			4373298	4468572	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	526216	0	Standard
|	**Cr**	**52**	**50.086**	ug/L	0.096	0	15553	960071	0	Standard
⌊	**Cr**	**53**	**48.565**	ug/L	1.097	2	269	107850	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26172	0	KED
|	**Cu**	**63**	**50.453**	ug/L	1.540	3	27	149439	3	KED
|	**Cu**	**65**	**50.109**	ug/L	1.000	1	13	74224	1	KED
|	**Zn**	**66**	**50.529**	ug/L	0.840	1	22	20178	1	KED
|	**Zn**	**67**	**50.007**	ug/L	2.585	5	3	3381	5	KED
⌊	**As**	**75**	**49.682**	ug/L	1.024	2	6	10030	2	KED
	Y	**89**		ug/L			285357	280982	1	Standard
	Kr	**83**		ug/L			53	62	20	Standard
⌈>	**In-1**	**115**		ug/L			7783	7450	2	KED
|	**Cd**	**111**	**49.386**	ug/L	1.072	2	3	11504	2	KED
⌊	**Cd**	**114**	**49.889**	ug/L	0.552	1	5	28263	2	KED
⌈>	**In**	**115**		ug/L			420460	405587	0	Standard
⌊	**Ag**	**107**	**50.003**	ug/L	1.269	2	62	684015	1	Standard
⌈>	**Tb**	**159**		ug/L			655044	669733	2	Standard
⌊	**Pb**	**208**	**49.523**	ug/L	1.541	3	75	2230270	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:22:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36786	0	Standard
	Cl	**37**		ug/L			4373298	4128223	4	Standard
⌈>	**Sc**	**45**		ug/L			544532	495649	4	Standard
|	**Cr**	**52**	**-0.012**	ug/L	0.021	178	15553	13948	5	Standard
⌊	**Cr**	**53**	**-0.031**	ug/L	0.011	35	269	179	9	Standard
⌈>	**Ge**	**72**		ug/L			26846	25635	8	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	83	27	33	18	KED
|	**Cu**	**65**	**0.000**	ug/L	0.003	4036	13	13	28	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.015	71	22	13	49	KED
|	**Zn**	**67**	**-0.015**	ug/L	0.021	133	3	2	43	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.011	508	6	6	31	KED
	Y	**89**		ug/L			285357	260328	3	Standard
	Kr	**83**		ug/L			53	56	39	Standard
⌈>	**In-1**	**115**		ug/L			7783	7633	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.003	86	3	4	13	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.004	91	5	3	71	KED
⌈>	**In**	**115**		ug/L			420460	396829	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	60	62	85	16	Standard
⌈>	**Tb**	**159**		ug/L			655044	622410	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	75	111	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0328-17RE2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:29:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	41066	2	Standard
	Cl	**37**		ug/L			4373298	4040656	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	521480	4	Standard
|	**Cr**	**52**	**7.178**	ug/L	0.171	2	15553	149015	2	Standard
⌊	**Cr**	**53**	**6.972**	ug/L	0.061	0	269	15562	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	27101	1	KED
|	**Cu**	**63**	**132.008**	ug/L	2.047	1	27	404801	1	KED
|	**Cu**	**65**	**128.587**	ug/L	3.154	2	13	197202	2	KED
|	**Zn**	**66**	**48.286**	ug/L	1.349	2	22	19962	1	KED
|	**Zn**	**67**	**43.417**	ug/L	0.051	0	3	3040	1	KED
⌊	**As**	**75**	**1.807**	ug/L	0.051	2	6	384	3	KED
	Y	**89**		ug/L			285357	302337	2	Standard
	Kr	**83**		ug/L			53	55	19	Standard
⌈>	**In-1**	**115**		ug/L			7783	7683	2	KED
|	**Cd**	**111**	**0.052**	ug/L	0.023	43	3	15	35	KED
⌊	**Cd**	**114**	**0.081**	ug/L	0.024	30	5	52	25	KED
⌈>	**In**	**115**		ug/L			420460	403033	2	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	5	62	516	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	643082	3	Standard
⌊	**Pb**	**208**	**26.174**	ug/L	0.638	2	75	1131774	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-DUP2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:35:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	40896	0	Standard
	Cl	37		ug/L			4373298	4209745	1	Standard
>	Sc	45		ug/L			544532	544099	1	Standard
	Cr	52	4.555	ug/L	0.105	2	15553	104382	0	Standard
	Cr	53	4.627	ug/L	0.056	1	269	10870	2	Standard
>	Ge	72		ug/L			26846	27314	0	KED
	Cu	63	106.361	ug/L	1.782	1	27	328728	1	KED
	Cu	65	103.471	ug/L	0.440	0	13	159937	0	KED
	Zn	66	38.887	ug/L	0.321	0	22	16213	1	KED
	Zn	67	35.086	ug/L	3.256	9	3	2475	8	KED
	As	75	1.434	ug/L	0.021	1	6	308	1	KED
	Y	89		ug/L			285357	311440	1	Standard
	Kr	83		ug/L			53	55	36	Standard
>	In-1	115		ug/L			7783	7335	0	KED
	Cd	111	0.044	ug/L	0.004	8	3	13	7	KED
	Cd	114	0.058	ug/L	0.007	12	5	37	10	KED
>	In	115		ug/L			420460	417332	0	Standard
	Ag	107	0.034	ug/L	0.003	7	62	538	6	Standard
>	Tb	159		ug/L			655044	662956	1	Standard
	Pb	208	11.947	ug/L	0.077	0	75	532912	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:40:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		**13**		ug/L			38749	39206	1	Standard
	Cl		**37**		ug/L			4373298	4159145	1	Standard
⌈>	**Sc**		**45**		ug/L			544532	532512	2	Standard
|	**Cr**		**52**	**12.346**	ug/L	0.273	2	15553	250877	2	Standard
⌊	**Cr**		**53**	**12.477**	ug/L	0.306	2	269	28224	0	Standard
⌈>	**Ge**		**72**		ug/L			26846	26192	3	KED
|	**Cu**		**63**	**147.418**	ug/L	3.298	2	27	436861	3	KED
|	**Cu**	STL	**65**	**147.599**	ug/L	1.055	0	13	218801	4	KED
|	**Zn**		**66**	**75.691**	ug/L	0.641	0	22	30244	4	KED
|	**Zn**		**67**	**67.692**	ug/L	0.763	1	3	4578	2	KED
⌊	**As**		**75**	**7.086**	ug/L	0.043	0	6	1437	3	KED
	Y		**89**		ug/L			285357	308191	3	Standard
	Kr		**83**		ug/L			53	43	12	Standard
⌈>	**In-1**		**115**		ug/L			7783	7669	0	KED
|	**Cd**		**111**	**5.352**	ug/L	0.085	1	3	1286	1	KED
⌊	**Cd**		**114**	**5.364**	ug/L	0.158	2	5	3134	3	KED
⌈>	**In**		**115**		ug/L			420460	409085	1	Standard
⌊	**Ag**		**107**	**4.642**	ug/L	0.090	1	62	64122	3	Standard
⌈>	**Tb**		**159**		ug/L			655044	660032	0	Standard
⌊	**Pb**		**208**	**20.323**	ug/L	0.216	1	75	902548	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MSD2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:44:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		**13**		ug/L			38749	40441	0	Standard
	Cl		**37**		ug/L			4373298	4154293	0	Standard
⌈>	**Sc**		**45**		ug/L			544532	532392	1	Standard
|	**Cr**		**52**	**12.089**	ug/L	0.164	1	15553	245978	1	Standard
⌊	**Cr**		**53**	**11.987**	ug/L	0.180	1	269	27130	1	Standard
⌈>	**Ge**		**72**		ug/L			26846	26927	1	KED
|	**Cu**		**63**	**193.480**	ug/L	1.283	0	27	589500	1	KED
|	**Cu**	STL	**65**	**190.848**	ug/L	3.571	1	13	290760	1	KED
|	**Zn**		**66**	**81.654**	ug/L	2.093	2	22	33524	0	KED
|	**Zn**		**67**	**75.581**	ug/L	1.074	1	3	5254	0	KED
⌊	**As**		**75**	**7.058**	ug/L	0.061	0	6	1471	1	KED
	Y		**89**		ug/L			285357	304519	1	Standard
	Kr		**83**		ug/L			53	59	23	Standard
⌈>	**In-1**		**115**		ug/L			7783	7192	0	KED
|	**Cd**		**111**	**5.338**	ug/L	0.010	0	3	1203	0	KED
⌊	**Cd**		**114**	**5.468**	ug/L	0.079	1	5	2995	0	KED
⌈>	**In**		**115**		ug/L			420460	404357	1	Standard
⌊	**Ag**		**107**	**5.268**	ug/L	0.109	2	62	71900	1	Standard
⌈>	**Tb**		**159**		ug/L			655044	651761	1	Standard
⌊	**Pb**		**208**	**44.437**	ug/L	1.189	2	75	1948094	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-07
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:50:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52306	1	Standard
	Cl	**37**		ug/L			4373298	4081899	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	548187	5	Standard
|	**Cr**	**52**	**7.168**	ug/L	0.230	3	15553	156410	3	Standard
⌊	**Cr**	**53**	**7.206**	ug/L	0.184	2	269	16891	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	25393	2	KED
|	**Cu**	**63**	**11.641**	ug/L	0.408	3	27	33458	1	KED
|	**Cu**	**65**	**11.573**	ug/L	0.095	0	13	16642	1	KED
|	**Zn**	**66**	**28.810**	ug/L	0.627	2	22	11169	1	KED
|	**Zn**	**67**	**27.355**	ug/L	1.159	4	3	1795	3	KED
⌊	**As**	**75**	**3.151**	ug/L	0.108	3	6	623	2	KED
	Y	**89**		ug/L			285357	347765	6	Standard
	Kr	**83**		ug/L			53	85	5	Standard
⌈>	**In-1**	**115**		ug/L			7783	6922	1	KED
|	**Cd**	**111**	**0.163**	ug/L	0.028	16	3	38	14	KED
⌊	**Cd**	**114**	**0.143**	ug/L	0.012	8	5	80	7	KED
⌈>	**In**	**115**		ug/L			420460	388044	6	Standard
⌊	**Ag**	**107**	**0.102**	ug/L	0.004	4	62	1388	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	626347	5	Standard
⌊	**Pb**	**208**	**9.590**	ug/L	0.373	3	75	403678	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:54:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56654	0	Standard
	Cl	**37**		ug/L			4373298	4140206	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	565534	3	Standard
|	**Cr**	**52**	**6.880**	ug/L	0.101	1	15553	155647	3	Standard
⌊	**Cr**	**53**	**6.903**	ug/L	0.140	2	269	16715	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	26727	2	KED
|	**Cu**	**63**	**11.309**	ug/L	0.277	2	27	34218	1	KED
|	**Cu**	**65**	**11.224**	ug/L	0.162	1	13	16985	1	KED
|	**Zn**	**66**	**29.153**	ug/L	0.564	1	22	11898	3	KED
|	**Zn**	**67**	**27.713**	ug/L	1.286	4	3	1913	2	KED
⌊	**As**	**75**	**3.031**	ug/L	0.089	2	6	630	0	KED
	Y	**89**		ug/L			285357	372250	1	Standard
	Kr	**83**		ug/L			53	82	4	Standard
⌈>	**In-1**	**115**		ug/L			7783	7042	1	KED
|	**Cd**	**111**	**0.134**	ug/L	0.025	18	3	32	16	KED
⌊	**Cd**	**114**	**0.119**	ug/L	0.021	17	5	68	15	KED
⌈>	**In**	**115**		ug/L			420460	402781	2	Standard
⌊	**Ag**	**107**	**0.127**	ug/L	0.004	3	62	1788	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	655706	4	Standard
⌊	**Pb**	**208**	**9.556**	ug/L	0.304	3	75	421264	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:58:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	49665	1	Standard
	Cl	37		ug/L			4373298	4147913	2	Standard
>	Sc	45		ug/L			544532	566335	2	Standard
	Cr	52	17.391	ug/L	0.146	0	15553	369320	2	Standard
	Cr	53	17.603	ug/L	0.033	0	269	42253	2	Standard
>	Ge	72		ug/L			26846	26383	1	KED
	Cu	63	22.722	ug/L	0.522	2	27	67847	1	KED
	Cu	65	21.723	ug/L	0.080	0	13	32443	1	KED
	Zn	66	64.950	ug/L	1.280	1	22	26143	3	KED
	Zn	67	60.522	ug/L	1.350	2	3	4124	2	KED
	As	75	13.473	ug/L	0.228	1	6	2746	1	KED
	Y	89		ug/L			285357	376628	2	Standard
	Kr	83		ug/L			53	106	14	Standard
>	In-1	115		ug/L			7783	7429	1	KED
	Cd	111	10.553	ug/L	0.254	2	3	2453	0	KED
	Cd	114	10.505	ug/L	0.509	4	5	5936	3	KED
>	In	115		ug/L			420460	406320	1	Standard
	Ag	107	6.759	ug/L	0.286	4	62	92685	4	Standard
>	Tb	159		ug/L			655044	649924	2	Standard
	Pb	208	21.579	ug/L	0.231	1	75	943455	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:03:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	51634	0	Standard
	Cl	37		ug/L			4373298	4163448	3	Standard
>	Sc	45		ug/L			544532	579776	2	Standard
	Cr	52	16.288	ug/L	0.447	2	15553	355071	2	Standard
	Cr	53	16.376	ug/L	0.205	1	269	40264	3	Standard
>	Ge	72		ug/L			26846	26560	1	KED
	Cu	63	21.273	ug/L	0.148	0	27	63961	1	KED
	Cu	65	21.046	ug/L	0.238	1	13	31646	2	KED
	Zn	66	61.193	ug/L	0.490	0	22	24793	0	KED
	Zn	67	57.157	ug/L	3.039	5	3	3919	4	KED
	As	75	13.207	ug/L	0.243	1	6	2710	1	KED
	Y	89		ug/L			285357	378405	2	Standard
	Kr	83		ug/L			53	97	16	Standard
>	In-1	115		ug/L			7783	7502	2	KED
	Cd	111	10.307	ug/L	0.486	4	3	2419	3	KED
	Cd	114	10.440	ug/L	0.165	1	5	5959	0	KED
>	In	115		ug/L			420460	408727	0	Standard
	Ag	107	6.457	ug/L	0.171	2	62	89082	2	Standard
>	Tb	159		ug/L			655044	661492	3	Standard
	Pb	208	17.934	ug/L	0.192	1	75	798005	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:07:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54508	1	Standard
	Cl	**37**		ug/L			4373298	4094284	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	553666	1	Standard
|	**Cr**	**52**	**29.162**	ug/L	0.821	2	15553	594670	2	Standard
⌊	**Cr**	**53**	**28.887**	ug/L	0.221	0	269	67610	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25823	1	KED
|	**Cu**	**63**	**36.999**	ug/L	0.476	1	27	108123	0	KED
|	**Cu**	**65**	**36.150**	ug/L	0.384	1	13	52839	2	KED
|	**Zn**	**66**	**108.472**	ug/L	1.184	1	22	42713	0	KED
|	**Zn**	**67**	**99.032**	ug/L	3.509	3	3	6602	3	KED
⌊	**As**	**75**	**27.259**	ug/L	0.296	1	6	5432	1	KED
	Y	**89**		ug/L			285357	352534	1	Standard
	Kr	**83**		ug/L			53	78	23	Standard
⌈>	**In-1**	**115**		ug/L			7783	7346	2	KED
|	**Cd**	**111**	**24.525**	ug/L	0.598	2	3	5633	0	KED
⌊	**Cd**	**114**	**24.686**	ug/L	0.837	3	5	13786	1	KED
⌈>	**In**	**115**		ug/L			420460	388260	1	Standard
⌊	**Ag**	**107**	**24.730**	ug/L	0.294	1	62	323895	0	Standard
⌈>	**Tb**	**159**		ug/L			655044	639770	1	Standard
⌊	**Pb**	**208**	**34.257**	ug/L	0.350	1	75	1474423	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:12:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36839	1	Standard
	Cl	**37**		ug/L			4373298	4095249	4	Standard
⎡>	**Sc**	**45**		ug/L			544532	530483	1	Standard
⎢	**Cr**	**52**	**-0.007**	ug/L	0.027	407	15553	15023	2	Standard
⎣	**Cr**	**53**	**-0.049**	ug/L	0.007	14	269	153	11	Standard
⎡>	**Ge**	**72**		ug/L			26846	26635	0	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.003	577	27	29	29	KED
⎢	**Cu**	**65**	**0.003**	ug/L	0.007	192	13	19	51	KED
⎢	**Zn**	**66**	**0.011**	ug/L	0.013	111	22	26	18	KED
⎢	**Zn**	**67**	**0.038**	ug/L	0.043	114	3	6	45	KED
⎣	**As**	**75**	**0.006**	ug/L	0.003	58	6	7	9	KED
	Y	**89**		ug/L			285357	270822	1	Standard
	Kr	**83**		ug/L			53	52	20	Standard
⎡>	**In-1**	**115**		ug/L			7783	7660	2	KED
⎢	**Cd**	**111**	**0.000**	ug/L	0.006	4051	3	3	41	KED
⎣	**Cd**	**114**	**-0.000**	ug/L	0.010	8951	5	5	104	KED
⎡>	**In**	**115**		ug/L			420460	408643	1	Standard
⎣	**Ag**	**107**	**0.002**	ug/L	0.001	45	62	89	13	Standard
⎡>	**Tb**	**159**		ug/L			655044	653541	1	Standard
⎣	**Pb**	**208**	**0.003**	ug/L	0.001	24	75	186	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:16:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37304	1	Standard
	Cl	**37**		ug/L			4373298	4355176	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	514960	1	Standard
|	**Cr**	**52**	**49.230**	ug/L	0.760	1	15553	923596	0	Standard
⌊	**Cr**	**53**	**48.806**	ug/L	0.881	1	269	106065	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27456	2	KED
|	**Cu**	**63**	**49.496**	ug/L	1.074	2	27	153765	1	KED
|	**Cu**	**65**	**49.781**	ug/L	0.719	1	13	77339	0	KED
|	**Zn**	**66**	**50.474**	ug/L	2.107	4	22	21133	2	KED
|	**Zn**	**67**	**50.097**	ug/L	0.545	1	3	3553	2	KED
⌊	**As**	**75**	**49.587**	ug/L	1.253	2	6	10498	0	KED
	Y	**89**		ug/L			285357	271859	1	Standard
	Kr	**83**		ug/L			53	67	23	Standard
⌈>	**In-1**	**115**		ug/L			7783	7770	1	KED
|	**Cd**	**111**	**49.405**	ug/L	1.261	2	3	12004	2	KED
⌊	**Cd**	**114**	**48.909**	ug/L	0.552	1	5	28897	0	KED
⌈>	**In**	**115**		ug/L			420460	400172	0	Standard
⌊	**Ag**	**107**	**49.600**	ug/L	2.125	4	62	669463	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	653597	1	Standard
⌊	**Pb**	**208**	**49.392**	ug/L	0.668	1	75	2171614	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:23:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37227	2	Standard
	Cl	**37**		ug/L			4373298	4064930	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	517403	1	Standard
|	**Cr**	**52**	**-0.013**	ug/L	0.012	91	15553	14542	0	Standard
⌊	**Cr**	**53**	**-0.040**	ug/L	0.006	15	269	170	7	Standard
⌈>	**Ge**	**72**		ug/L			26846	26453	1	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.003	224	27	24	31	KED
|	**Cu**	**65**	**0.001**	ug/L	0.004	843	13	14	45	KED
|	**Zn**	**66**	**-0.018**	ug/L	0.005	26	22	14	15	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.031	352	3	3	69	KED
⌊	**As**	**75**	**0.011**	ug/L	0.014	125	6	9	32	KED
	Y	**89**		ug/L			285357	268155	3	Standard
	Kr	**83**		ug/L			53	53	8	Standard
⌈>	**In-1**	**115**		ug/L			7783	7549	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.007	394	3	3	43	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	254	5	4	66	KED
⌈>	**In**	**115**		ug/L			420460	405009	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	44	62	97	16	Standard
⌈>	**Tb**	**159**		ug/L			655044	648893	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	7	75	132	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-03
Sample Dil Factor: 50
DEL
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:28:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52486	3	Standard
	Cl	**37**		ug/L			4373298	4185966	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	595746	1	Standard
|	**Cr**	**52**	**6.949**	ug/L	0.202	2	15553	165404	1	Standard
⌊	**Cr**	**53**	**6.894**	ug/L	0.063	0	269	17585	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	26789	0	KED
|	**Cu**	**63**	**16.441**	ug/L	0.185	1	27	49865	1	KED
|	**Cu**	**65**	**16.110**	ug/L	0.467	2	13	24435	3	KED
|	**Zn**	**66**	**34.697**	ug/L	0.753	2	22	14188	1	KED
|	**Zn**	**67**	**34.001**	ug/L	0.357	1	3	2354	1	KED
⌊	**As**	**75**	**3.372**	ug/L	0.023	0	6	703	1	KED
	Y	**89**		ug/L			285357	395348	2	Standard
	Kr	**83**		ug/L			53	105	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7484	0	KED
|	**Cd**	**111**	**0.159**	ug/L	0.019	12	3	40	11	KED
⌊	**Cd**	**114**	**0.158**	ug/L	0.020	12	5	95	12	KED
⌈>	**In**	**115**		ug/L			420460	408149	2	Standard
⌊	**Ag**	**107**	**0.155**	ug/L	0.006	4	62	2197	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	664935	1	Standard
⌊	**Pb**	**208**	**12.429**	ug/L	0.419	3	75	555848	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-04
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:32:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52091	0	Standard
	Cl	**37**		ug/L			4373298	4125301	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	579430	2	Standard
|	**Cr**	**52**	**6.637**	ug/L	0.184	2	15553	154367	0	Standard
⌊	**Cr**	**53**	**6.679**	ug/L	0.086	1	269	16579	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	27136	1	KED
|	**Cu**	**63**	**14.598**	ug/L	0.320	2	27	44839	0	KED
|	**Cu**	**65**	**14.559**	ug/L	0.492	3	13	22360	1	KED
|	**Zn**	**66**	**29.722**	ug/L	0.436	1	22	12315	2	KED
|	**Zn**	**67**	**29.111**	ug/L	0.311	1	3	2042	2	KED
⌊	**As**	**75**	**2.767**	ug/L	0.039	1	6	585	1	KED
	Y	**89**		ug/L			285357	387793	2	Standard
	Kr	**83**		ug/L			53	89	3	Standard
⌈>	**In-1**	**115**		ug/L			7783	7550	2	KED
|	**Cd**	**111**	**0.119**	ug/L	0.051	42	3	31	37	KED
⌊	**Cd**	**114**	**0.116**	ug/L	0.015	13	5	72	14	KED
⌈>	**In**	**115**		ug/L			420460	403752	1	Standard
⌊	**Ag**	**107**	**0.119**	ug/L	0.005	4	62	1681	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	657238	1	Standard
⌊	**Pb**	**208**	**11.588**	ug/L	0.119	1	75	512408	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-05
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:36:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54529	3	Standard
	Cl	**37**		ug/L			4373298	4125689	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	619919	2	Standard
|	**Cr**	**52**	**4.836**	ug/L	0.088	1	15553	125184	1	Standard
⌊	**Cr**	**53**	**4.812**	ug/L	0.141	2	269	12864	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	27151	0	KED
|	**Cu**	**63**	**11.973**	ug/L	0.117	0	27	36813	1	KED
|	**Cu**	**65**	**11.559**	ug/L	0.283	2	13	17771	2	KED
|	**Zn**	**66**	**23.455**	ug/L	0.500	2	22	9728	1	KED
|	**Zn**	**67**	**22.482**	ug/L	0.560	2	3	1579	2	KED
⌊	**As**	**75**	**2.667**	ug/L	0.072	2	6	565	2	KED
	Y	**89**		ug/L			285357	424982	1	Standard
	Kr	**83**		ug/L			53	103	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7880	2	KED
|	**Cd**	**111**	**0.095**	ug/L	0.042	43	3	26	37	KED
⌊	**Cd**	**114**	**0.106**	ug/L	0.020	18	5	69	15	KED
⌈>	**In**	**115**		ug/L			420460	402296	2	Standard
⌊	**Ag**	**107**	**0.081**	ug/L	0.001	1	62	1158	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	667523	2	Standard
⌊	**Pb**	**208**	**6.754**	ug/L	0.112	1	75	303322	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-06
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:41:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56804	1	Standard
	Cl	**37**		ug/L			4373298	4059046	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	588587	1	Standard
|	**Cr**	**52**	**6.401**	ug/L	0.122	1	15553	151889	0	Standard
⌊	**Cr**	**53**	**6.278**	ug/L	0.090	1	269	15851	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26556	1	KED
|	**Cu**	**63**	**11.701**	ug/L	0.125	1	27	35186	1	KED
|	**Cu**	**65**	**11.603**	ug/L	0.232	2	13	17451	3	KED
|	**Zn**	**66**	**25.377**	ug/L	0.432	1	22	10295	2	KED
|	**Zn**	**67**	**24.536**	ug/L	1.090	4	3	1684	3	KED
⌊	**As**	**75**	**2.348**	ug/L	0.044	1	6	487	1	KED
	Y	**89**		ug/L			285357	387027	1	Standard
	Kr	**83**		ug/L			53	100	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	6923	3	KED
|	**Cd**	**111**	**0.102**	ug/L	0.033	32	3	25	26	KED
⌊	**Cd**	**114**	**0.102**	ug/L	0.015	15	5	58	14	KED
⌈>	**In**	**115**		ug/L			420460	409233	1	Standard
⌊	**Ag**	**107**	**0.074**	ug/L	0.003	3	62	1077	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	664330	1	Standard
⌊	**Pb**	**208**	**6.613**	ug/L	0.085	1	75	295621	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-07
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:45:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	60680	1	Standard
	Cl	**37**		ug/L			4373298	4035321	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	579426	4	Standard
|	**Cr**	**52**	**6.015**	ug/L	0.158	2	15553	141424	3	Standard
⌊	**Cr**	**53**	**5.985**	ug/L	0.047	0	269	14885	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	27245	0	KED
|	**Cu**	**63**	**11.035**	ug/L	0.049	0	27	34044	0	KED
|	**Cu**	**65**	**10.972**	ug/L	0.277	2	13	16927	1	KED
|	**Zn**	**66**	**23.826**	ug/L	0.801	3	22	9915	2	KED
|	**Zn**	**67**	**23.410**	ug/L	0.640	2	3	1649	2	KED
⌊	**As**	**75**	**2.593**	ug/L	0.137	5	6	551	4	KED
	Y	**89**		ug/L			285357	379005	2	Standard
	Kr	**83**		ug/L			53	79	22	Standard
⌈>	**In-1**	**115**		ug/L			7783	7739	3	KED
|	**Cd**	**111**	**0.071**	ug/L	0.002	3	3	20	2	KED
⌊	**Cd**	**114**	**0.099**	ug/L	0.034	34	5	63	29	KED
⌈>	**In**	**115**		ug/L			420460	398872	2	Standard
⌊	**Ag**	**107**	**0.075**	ug/L	0.004	4	62	1064	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	654145	4	Standard
⌊	**Pb**	**208**	**6.833**	ug/L	0.156	2	75	300594	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-08
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:49:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56095	1	Standard
	Cl	**37**		ug/L			4373298	4039382	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	593524	3	Standard
|	**Cr**	**52**	**6.557**	ug/L	0.201	3	15553	156402	2	Standard
⌊	**Cr**	**53**	**6.721**	ug/L	0.202	3	269	17077	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26847	2	KED
|	**Cu**	**63**	**12.300**	ug/L	0.048	0	27	37391	2	KED
|	**Cu**	**65**	**12.453**	ug/L	0.258	2	13	18928	1	KED
|	**Zn**	**66**	**25.064**	ug/L	0.397	1	22	10276	1	KED
|	**Zn**	**67**	**23.814**	ug/L	0.927	3	3	1653	3	KED
⌊	**As**	**75**	**2.853**	ug/L	0.083	2	6	596	2	KED
	Y	**89**		ug/L			285357	390968	2	Standard
	Kr	**83**		ug/L			53	91	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7682	3	KED
|	**Cd**	**111**	**0.083**	ug/L	0.010	11	3	23	10	KED
⌊	**Cd**	**114**	**0.097**	ug/L	0.002	2	5	62	4	KED
⌈>	**In**	**115**		ug/L			420460	407703	3	Standard
⌊	**Ag**	**107**	**0.059**	ug/L	0.005	8	62	874	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	654443	3	Standard
⌊	**Pb**	**208**	**6.672**	ug/L	0.168	2	75	293704	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-01
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:54:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54389	1	Standard
	Cl	**37**		ug/L			4373298	4146586	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	584545	0	Standard
|	**Cr**	**52**	**8.267**	ug/L	0.250	3	15553	189993	3	Standard
⌊	**Cr**	**53**	**8.266**	ug/L	0.050	0	269	20633	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26591	1	KED
|	**Cu**	**63**	**14.592**	ug/L	0.282	1	27	43935	2	KED
|	**Cu**	**65**	**14.409**	ug/L	0.106	0	13	21693	0	KED
|	**Zn**	**66**	**30.495**	ug/L	0.469	1	22	12380	1	KED
|	**Zn**	**67**	**30.572**	ug/L	0.175	0	3	2101	1	KED
⌊	**As**	**75**	**3.567**	ug/L	0.149	4	6	737	3	KED
	Y	**89**		ug/L			285357	382481	1	Standard
	Kr	**83**		ug/L			53	114	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7481	2	KED
|	**Cd**	**111**	**0.242**	ug/L	0.048	19	3	60	19	KED
⌊	**Cd**	**114**	**0.235**	ug/L	0.044	18	5	139	16	KED
⌈>	**In**	**115**		ug/L			420460	406173	1	Standard
⌊	**Ag**	**107**	**0.238**	ug/L	0.010	4	62	3321	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	653525	2	Standard
⌊	**Pb**	**208**	**11.402**	ug/L	0.210	1	75	501224	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-02
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:58:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56879	3	Standard
	Cl	**37**		ug/L			4373298	4074313	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	602582	1	Standard
|	**Cr**	**52**	**7.837**	ug/L	0.180	2	15553	186517	1	Standard
⌊	**Cr**	**53**	**7.826**	ug/L	0.153	1	269	20149	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	27005	2	KED
|	**Cu**	**63**	**15.025**	ug/L	0.291	1	27	45927	0	KED
|	**Cu**	**65**	**14.810**	ug/L	0.190	1	13	22642	1	KED
|	**Zn**	**66**	**29.168**	ug/L	0.059	0	22	12028	2	KED
|	**Zn**	**67**	**27.448**	ug/L	1.384	5	3	1915	3	KED
⌊	**As**	**75**	**3.653**	ug/L	0.051	1	6	767	3	KED
	Y	**89**		ug/L			285357	437650	1	Standard
	Kr	**83**		ug/L			53	102	3	Standard
⌈>	**In-1**	**115**		ug/L			7783	7893	2	KED
|	**Cd**	**111**	**0.237**	ug/L	0.035	14	3	62	15	KED
⌊	**Cd**	**114**	**0.223**	ug/L	0.020	8	5	139	6	KED
⌈>	**In**	**115**		ug/L			420460	410369	2	Standard
⌊	**Ag**	**107**	**0.142**	ug/L	0.004	2	62	2027	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	666554	0	Standard
⌊	**Pb**	**208**	**6.842**	ug/L	0.107	1	75	306881	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-03
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:02:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56229	0	Standard
	Cl	**37**		ug/L			4373298	4006597	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	580872	3	Standard
|	**Cr**	**52**	**7.519**	ug/L	0.129	1	15553	173192	3	Standard
⌊	**Cr**	**53**	**7.432**	ug/L	0.183	2	269	18457	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27450	1	KED
|	**Cu**	**63**	**16.587**	ug/L	0.225	1	27	51545	1	KED
|	**Cu**	**65**	**16.180**	ug/L	0.321	1	13	25142	1	KED
|	**Zn**	**66**	**33.754**	ug/L	0.623	1	22	14143	1	KED
|	**Zn**	**67**	**33.382**	ug/L	0.296	0	3	2368	0	KED
⌊	**As**	**75**	**3.150**	ug/L	0.107	3	6	673	3	KED
	Y	**89**		ug/L			285357	380605	1	Standard
	Kr	**83**		ug/L			53	103	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7655	1	KED
|	**Cd**	**111**	**0.155**	ug/L	0.015	9	3	40	9	KED
⌊	**Cd**	**114**	**0.141**	ug/L	0.006	4	5	87	4	KED
⌈>	**In**	**115**		ug/L			420460	404767	0	Standard
⌊	**Ag**	**107**	**0.130**	ug/L	0.003	2	62	1841	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	656289	2	Standard
⌊	**Pb**	**208**	**14.388**	ug/L	0.242	1	75	635403	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:07:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36339	0	Standard
	Cl	**37**		ug/L			4373298	3831932	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	495567	3	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.014	198	15553	14021	2	Standard
⌊	**Cr**	**53**	**-0.045**	ug/L	0.008	17	269	150	8	Standard
⌈>	**Ge**	**72**		ug/L			26846	25394	4	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	59	27	36	13	KED
|	**Cu**	**65**	**0.009**	ug/L	0.003	29	13	26	12	KED
|	**Zn**	**66**	**0.006**	ug/L	0.027	475	22	23	48	KED
|	**Zn**	**67**	**0.068**	ug/L	0.113	167	3	8	96	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	112	6	5	19	KED
	Y	**89**		ug/L			285357	265361	3	Standard
	Kr	**83**		ug/L			53	69	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7707	1	KED
|	**Cd**	**111**	**0.000**	ug/L	0.002	1559	3	3	15	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	95	5	3	48	KED
⌈>	**In**	**115**		ug/L			420460	390605	3	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.002	1056	62	56	36	Standard
⌈>	**Tb**	**159**		ug/L			655044	635599	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	3	75	134	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:11:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	35526	3	Standard
	Cl	**37**		ug/L			4373298	4224985	5	Standard
⌈>	**Sc**	**45**		ug/L			544532	479870	9	Standard
|	**Cr**	**52**	**50.916**	ug/L	2.183	4	15553	887365	5	Standard
⌊	**Cr**	**53**	**50.089**	ug/L	1.999	3	269	101173	6	Standard
⌈>	**Ge**	**72**		ug/L			26846	26435	2	KED
|	**Cu**	**63**	**50.109**	ug/L	0.178	0	27	149908	2	KED
|	**Cu**	**65**	**49.720**	ug/L	0.803	1	13	74410	4	KED
|	**Zn**	**66**	**52.399**	ug/L	0.353	0	22	21137	3	KED
|	**Zn**	**67**	**51.286**	ug/L	0.590	1	3	3502	3	KED
⌊	**As**	**75**	**50.454**	ug/L	0.887	1	6	10287	2	KED
	Y	**89**		ug/L			285357	248763	11	Standard
	Kr	**83**		ug/L			53	62	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	7471	3	KED
|	**Cd**	**111**	**50.358**	ug/L	1.400	2	3	11758	1	KED
⌊	**Cd**	**114**	**51.071**	ug/L	1.096	2	5	29000	1	KED
⌈>	**In**	**115**		ug/L			420460	379388	10	Standard
⌊	**Ag**	**107**	**50.865**	ug/L	2.691	5	62	648784	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	608103	11	Standard
⌊	**Pb**	**208**	**52.527**	ug/L	4.446	8	75	2135289	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:18:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36729	1	Standard
	Cl	**37**		ug/L			4373298	3919579	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	509496	1	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.030	1597	15553	14581	2	Standard
⌊	**Cr**	**53**	**-0.046**	ug/L	0.003	6	269	153	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	26377	1	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	48	27	36	10	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	30	13	21	10	KED
|	**Zn**	**66**	**-0.009**	ug/L	0.009	108	22	18	21	KED
|	**Zn**	**67**	**0.038**	ug/L	0.015	40	3	6	17	KED
⌊	**As**	**75**	**0.007**	ug/L	0.006	84	6	8	15	KED
	Y	**89**		ug/L			285357	255912	1	Standard
	Kr	**83**		ug/L			53	54	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7324	2	KED
|	**Cd**	**111**	**0.005**	ug/L	0.005	96	3	4	24	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.008	166	5	2	176	KED
⌈>	**In**	**115**		ug/L			420460	402465	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	19	62	80	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	630364	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	12	75	128	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:22:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	49652	0	Standard
	Cl	**37**		ug/L			4373298	4047237	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	531657	0	Standard
|	**Cr**	**52**	**0.045**	ug/L	0.024	54	15553	16043	3	Standard
⌊	**Cr**	**53**	**-0.035**	ug/L	0.003	8	269	184	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	26760	2	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	51	27	37	12	KED
|	**Cu**	**65**	**0.004**	ug/L	0.004	86	13	20	28	KED
|	**Zn**	**66**	**0.076**	ug/L	0.046	60	22	53	37	KED
|	**Zn**	**67**	**0.076**	ug/L	0.110	144	3	8	81	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.011	236	6	5	40	KED
	Y	**89**		ug/L			285357	283575	2	Standard
	Kr	**83**		ug/L			53	55	13	Standard
⌈>	**In-1**	**115**		ug/L			7783	7670	3	KED
|	**Cd**	**111**	**0.010**	ug/L	0.015	153	3	5	60	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	98	5	3	50	KED
⌈>	**In**	**115**		ug/L			420460	407471	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	38	62	82	11	Standard
⌈>	**Tb**	**159**		ug/L			655044	655656	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	10	75	311	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:27:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	43263	2	Standard
	Cl	**37**		ug/L			4373298	3942299	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	512874	2	Standard
|	**Cr**	**52**	**25.967**	ug/L	0.150	0	15553	492182	2	Standard
⌊	**Cr**	**53**	**25.451**	ug/L	0.393	1	269	55211	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26880	1	KED
|	**Cu**	**63**	**27.556**	ug/L	0.565	2	27	83818	0	KED
|	**Cu**	**65**	**27.604**	ug/L	0.686	2	13	41992	1	KED
|	**Zn**	**66**	**83.947**	ug/L	1.221	1	22	34422	3	KED
|	**Zn**	**67**	**78.106**	ug/L	0.884	1	3	5421	1	KED
⌊	**As**	**75**	**25.722**	ug/L	0.300	1	6	5336	2	KED
	Y	**89**		ug/L			285357	267401	3	Standard
	Kr	**83**		ug/L			53	59	6	Standard
⌈>	**In-1**	**115**		ug/L			7783	7470	4	KED
|	**Cd**	**111**	**26.312**	ug/L	0.414	1	3	6145	3	KED
⌊	**Cd**	**114**	**26.798**	ug/L	0.740	2	5	15212	2	KED
⌈>	**In**	**115**		ug/L			420460	398732	4	Standard
⌊	**Ag**	**107**	**26.234**	ug/L	0.772	2	62	352580	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	628792	2	Standard
⌊	**Pb**	**208**	**27.408**	ug/L	0.137	0	75	1159486	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-04
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:31:38

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53466	1	Standard
	Cl	**37**		ug/L			4373298	4025362	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	585019	3	Standard
|	**Cr**	**52**	**6.321**	ug/L	0.038	0	15553	149297	3	Standard
⌊	**Cr**	**53**	**6.320**	ug/L	0.082	1	269	15858	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	26891	0	KED
|	**Cu**	**63**	**14.874**	ug/L	0.275	1	27	45285	2	KED
|	**Cu**	**65**	**14.779**	ug/L	0.577	3	13	22500	3	KED
|	**Zn**	**66**	**31.637**	ug/L	0.079	0	22	12989	0	KED
|	**Zn**	**67**	**30.864**	ug/L	0.846	2	3	2145	2	KED
⌊	**As**	**75**	**3.145**	ug/L	0.038	1	6	658	1	KED
	Y	**89**		ug/L			285357	379820	4	Standard
	Kr	**83**		ug/L			53	95	2	Standard
⌈>	**In-1**	**115**		ug/L			7783	7578	0	KED
|	**Cd**	**111**	**0.137**	ug/L	0.011	7	3	35	6	KED
⌊	**Cd**	**114**	**0.154**	ug/L	0.004	2	5	94	2	KED
⌈>	**In**	**115**		ug/L			420460	400979	4	Standard
⌊	**Ag**	**107**	**0.114**	ug/L	0.006	5	62	1599	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	650205	1	Standard
⌊	**Pb**	**208**	**13.279**	ug/L	0.197	1	75	581033	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-05
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:35:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56806	1	Standard
	Cl	**37**		ug/L			4373298	4115784	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	620696	4	Standard
|	**Cr**	**52**	**6.940**	ug/L	0.137	1	15553	172114	2	Standard
⌊	**Cr**	**53**	**6.857**	ug/L	0.194	2	269	18217	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26952	2	KED
|	**Cu**	**63**	**16.011**	ug/L	0.051	0	27	48858	3	KED
|	**Cu**	**65**	**16.017**	ug/L	0.297	1	13	24438	2	KED
|	**Zn**	**66**	**31.845**	ug/L	0.188	0	22	13103	2	KED
|	**Zn**	**67**	**30.898**	ug/L	1.174	3	3	2154	6	KED
⌊	**As**	**75**	**2.995**	ug/L	0.067	2	6	628	0	KED
	Y	**89**		ug/L			285357	399458	0	Standard
	Kr	**83**		ug/L			53	83	5	Standard
⌈>	**In-1**	**115**		ug/L			7783	7773	2	KED
|	**Cd**	**111**	**0.128**	ug/L	0.009	7	3	34	7	KED
⌊	**Cd**	**114**	**0.121**	ug/L	0.016	13	5	77	10	KED
⌈>	**In**	**115**		ug/L			420460	408767	3	Standard
⌊	**Ag**	**107**	**0.116**	ug/L	0.007	6	62	1661	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	664814	0	Standard
⌊	**Pb**	**208**	**10.509**	ug/L	0.145	1	75	470122	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-06
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:40:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	59828	1	Standard
	Cl	**37**		ug/L			4373298	4038712	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	598763	1	Standard
|	**Cr**	**52**	**7.257**	ug/L	0.101	1	15553	172897	1	Standard
⌊	**Cr**	**53**	**7.051**	ug/L	0.129	1	269	18071	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26975	2	KED
|	**Cu**	**63**	**14.796**	ug/L	0.045	0	27	45188	1	KED
|	**Cu**	**65**	**14.492**	ug/L	0.389	2	13	22130	2	KED
|	**Zn**	**66**	**26.811**	ug/L	0.380	1	22	11043	1	KED
|	**Zn**	**67**	**26.938**	ug/L	0.940	3	3	1878	3	KED
⌊	**As**	**75**	**2.868**	ug/L	0.119	4	6	603	2	KED
	Y	**89**		ug/L			285357	395776	1	Standard
	Kr	**83**		ug/L			53	109	20	Standard
⌈>	**In-1**	**115**		ug/L			7783	7439	0	KED
|	**Cd**	**111**	**0.068**	ug/L	0.015	22	3	19	18	KED
⌊	**Cd**	**114**	**0.086**	ug/L	0.010	12	5	53	10	KED
⌈>	**In**	**115**		ug/L			420460	407337	0	Standard
⌊	**Ag**	**107**	**0.092**	ug/L	0.008	8	62	1325	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	667255	1	Standard
⌊	**Pb**	**208**	**6.726**	ug/L	0.059	0	75	302000	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-07
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:44:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	59067	1	Standard
	Cl	**37**		ug/L			4373298	4029906	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	568459	1	Standard
|	**Cr**	**52**	**6.125**	ug/L	0.088	1	15553	141068	0	Standard
⌊	**Cr**	**53**	**6.104**	ug/L	0.018	0	269	14890	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26771	4	KED
|	**Cu**	**63**	**14.547**	ug/L	0.153	1	27	44080	3	KED
|	**Cu**	**65**	**14.386**	ug/L	0.199	1	13	21803	4	KED
|	**Zn**	**66**	**31.250**	ug/L	0.427	1	22	12770	3	KED
|	**Zn**	**67**	**31.464**	ug/L	0.589	1	3	2176	3	KED
⌊	**As**	**75**	**3.325**	ug/L	0.034	1	6	692	3	KED
	Y	**89**		ug/L			285357	380537	0	Standard
	Kr	**83**		ug/L			53	109	8	Standard
⌈>	**In-1**	**115**		ug/L			7783	7610	0	KED
|	**Cd**	**111**	**0.132**	ug/L	0.028	21	3	34	18	KED
⌊	**Cd**	**114**	**0.143**	ug/L	0.008	5	5	88	6	KED
⌈>	**In**	**115**		ug/L			420460	394964	1	Standard
⌊	**Ag**	**107**	**0.117**	ug/L	0.005	4	62	1623	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	643597	3	Standard
⌊	**Pb**	**208**	**10.807**	ug/L	0.265	2	75	467762	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-08
Sample Dil Factor: 50
DEL
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:49:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54798	1	Standard
	Cl	**37**		ug/L			4373298	3982832	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	551445	5	Standard
|	**Cr**	**52**	**6.150**	ug/L	0.052	0	15553	137308	5	Standard
⌊	**Cr**	**53**	**6.127**	ug/L	0.076	1	269	14498	5	Standard
⌈>	**Ge**	**72**		ug/L			26846	25958	1	KED
|	**Cu**	**63**	**13.542**	ug/L	0.064	0	27	39803	0	KED
|	**Cu**	**65**	**13.341**	ug/L	0.023	0	13	19609	1	KED
|	**Zn**	**66**	**27.645**	ug/L	0.439	1	22	10959	2	KED
|	**Zn**	**67**	**26.390**	ug/L	0.521	1	3	1771	2	KED
⌊	**As**	**75**	**3.032**	ug/L	0.134	4	6	613	3	KED
	Y	**89**		ug/L			285357	369798	2	Standard
	Kr	**83**		ug/L			53	106	28	Standard
⌈>	**In-1**	**115**		ug/L			7783	6932	2	KED
|	**Cd**	**111**	**0.139**	ug/L	0.025	18	3	33	18	KED
⌊	**Cd**	**114**	**0.128**	ug/L	0.004	3	5	72	3	KED
⌈>	**In**	**115**		ug/L			420460	384182	2	Standard
⌊	**Ag**	**107**	**0.105**	ug/L	0.005	4	62	1413	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	629662	5	Standard
⌊	**Pb**	**208**	**10.782**	ug/L	0.311	2	75	456311	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-09
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:53:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	51162	3	Standard
	Cl	**37**		ug/L			4373298	3817844	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	533813	3	Standard
|	**Cr**	**52**	**6.480**	ug/L	0.148	2	15553	139238	1	Standard
⌊	**Cr**	**53**	**6.428**	ug/L	0.158	2	269	14705	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25497	0	KED
|	**Cu**	**63**	**10.900**	ug/L	0.173	1	27	31475	2	KED
|	**Cu**	**65**	**10.705**	ug/L	0.126	1	13	15458	1	KED
|	**Zn**	**66**	**25.172**	ug/L	0.197	0	22	9803	0	KED
|	**Zn**	**67**	**24.199**	ug/L	1.199	4	3	1595	4	KED
⌊	**As**	**75**	**2.537**	ug/L	0.084	3	6	505	3	KED
	Y	**89**		ug/L			285357	349814	1	Standard
	Kr	**83**		ug/L			53	84	18	Standard
⌈>	**In-1**	**115**		ug/L			7783	7504	3	KED
|	**Cd**	**111**	**0.088**	ug/L	0.031	35	3	23	27	KED
⌊	**Cd**	**114**	**0.086**	ug/L	0.012	13	5	54	13	KED
⌈>	**In**	**115**		ug/L			420460	380063	2	Standard
⌊	**Ag**	**107**	**0.058**	ug/L	0.003	5	62	802	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	617271	3	Standard
⌊	**Pb**	**208**	**6.085**	ug/L	0.207	3	75	252609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0109-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:58:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53472	2	Standard
	Cl	**37**		ug/L			4373298	4251725	0	Standard
⌈>	**Sc**	**45**		ug/L			544532	525307	1	Standard
|	**Cr**	**52**	**0.664**	ug/L	0.007	1	15553	27504	2	Standard
⌊	**Cr**	**53**	**0.670**	ug/L	0.002	0	269	1742	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26076	1	KED
|	**Cu**	**63**	**0.847**	ug/L	0.005	0	27	2526	1	KED
|	**Cu**	**65**	**0.851**	ug/L	0.041	4	13	1269	6	KED
|	**Zn**	**66**	**90.466**	ug/L	1.574	1	22	35984	3	KED
|	**Zn**	**67**	**79.556**	ug/L	2.594	3	3	5355	2	KED
⌊	**As**	**75**	**0.179**	ug/L	0.022	12	6	42	9	KED
	Y	**89**		ug/L			285357	277517	2	Standard
	Kr	**83**		ug/L			53	52	24	Standard
⌈>	**In-1**	**115**		ug/L			7783	7716	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.006	42	3	6	20	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	152	5	8	56	KED
⌈>	**In**	**115**		ug/L			420460	408183	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	65	62	91	24	Standard
⌈>	**Tb**	**159**		ug/L			655044	651123	2	Standard
⌊	**Pb**	**208**	**0.209**	ug/L	0.007	3	75	9224	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:02:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36360	2	Standard
	Cl	**37**		ug/L			4373298	3997174	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	498419	2	Standard
|	**Cr**	**52**	**0.025**	ug/L	0.016	64	15553	14681	3	Standard
⌊	**Cr**	**53**	**-0.044**	ug/L	0.009	19	269	153	9	Standard
⌈>	**Ge**	**72**		ug/L			26846	26912	2	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	130	27	34	22	KED
|	**Cu**	**65**	**0.003**	ug/L	0.002	68	13	19	20	KED
|	**Zn**	**66**	**0.035**	ug/L	0.023	64	22	36	26	KED
|	**Zn**	**67**	**0.018**	ug/L	0.016	89	3	5	21	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	429	6	7	17	KED
	Y	**89**		ug/L			285357	261002	5	Standard
	Kr	**83**		ug/L			53	50	27	Standard
⌈>	**In-1**	**115**		ug/L			7783	7450	2	KED
|	**Cd**	**111**	**0.002**	ug/L	0.011	568	3	3	66	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	643	5	5	44	KED
⌈>	**In**	**115**		ug/L			420460	396586	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	174	62	50	28	Standard
⌈>	**Tb**	**159**		ug/L			655044	626483	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	15	75	102	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:06:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36672	0	Standard
	Cl	**37**		ug/L			4373298	4316291	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	511301	2	Standard
|	**Cr**	**52**	**49.012**	ug/L	0.382	0	15553	913204	2	Standard
⌊	**Cr**	**53**	**48.314**	ug/L	0.583	1	269	104271	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26405	2	KED
|	**Cu**	**63**	**50.561**	ug/L	0.825	1	27	151067	1	KED
|	**Cu**	**65**	**49.197**	ug/L	0.297	0	13	73529	2	KED
|	**Zn**	**66**	**51.137**	ug/L	0.663	1	22	20599	0	KED
|	**Zn**	**67**	**50.578**	ug/L	2.748	5	3	3449	5	KED
⌊	**As**	**75**	**50.144**	ug/L	0.397	0	6	10213	2	KED
	Y	**89**		ug/L			285357	272897	1	Standard
	Kr	**83**		ug/L			53	72	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	7333	3	KED
|	**Cd**	**111**	**49.644**	ug/L	0.938	1	3	11380	2	KED
⌊	**Cd**	**114**	**50.823**	ug/L	1.091	2	5	28329	2	KED
⌈>	**In**	**115**		ug/L			420460	393449	1	Standard
⌊	**Ag**	**107**	**50.091**	ug/L	1.157	2	62	664666	1	Standard
⌈>	**Tb**	**159**		ug/L			655044	641370	1	Standard
⌊	**Pb**	**208**	**50.311**	ug/L	0.479	0	75	2170796	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:13:50
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36826	3	Standard
	Cl	**37**		ug/L			4373298	3987550	1	Standard
⎡>	**Sc**	**45**		ug/L			544532	504336	2	Standard
⎢	**Cr**	**52**	**-0.007**	ug/L	0.010	133	15553	14271	3	Standard
⎣	**Cr**	**53**	**-0.046**	ug/L	0.008	16	269	152	9	Standard
⎡>	**Ge**	**72**		ug/L			26846	27248	1	KED
⎢	**Cu**	**63**	**0.002**	ug/L	0.001	94	27	33	14	KED
⎢	**Cu**	**65**	**0.002**	ug/L	0.004	263	13	16	37	KED
⎢	**Zn**	**66**	**0.004**	ug/L	0.021	575	22	24	37	KED
⎢	**Zn**	**67**	**0.017**	ug/L	0.041	238	3	5	57	KED
⎣	**As**	**75**	**0.007**	ug/L	0.007	100	6	8	18	KED
	Y	**89**		ug/L			285357	264099	3	Standard
	Kr	**83**		ug/L			53	50	11	Standard
⎡>	**In-1**	**115**		ug/L			7783	7648	2	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.000	3	3	1		KED
⎣	**Cd**	**114**	**-0.005**	ug/L	0.004	71	5	2	94	KED
⎡>	**In**	**115**		ug/L			420460	398241	3	Standard
⎣	**Ag**	**107**	**0.002**	ug/L	0.002	111	62	80	28	Standard
⎡>	**Tb**	**159**		ug/L			655044	630972	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	34	75	133	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0617-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, January 13, 2023 00:18:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	47064	3	Standard
	Cl	**37**		ug/L			4373298	4534693	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	549368	1	Standard
|	**Cr**	**52**	**0.237**	ug/L	0.016	6	15553	20368	3	Standard
⌊	**Cr**	**53**	**0.833**	ug/L	0.019	2	269	2197	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25886	1	KED
|	**Cu**	**63**	**1.130**	ug/L	0.037	3	27	3337	3	KED
|	**Cu**	**65**	**1.144**	ug/L	0.041	3	13	1689	4	KED
|	**Zn**	**66**	**7.873**	ug/L	0.158	2	22	3127	1	KED
|	**Zn**	**67**	**7.977**	ug/L	0.539	6	3	536	6	KED
⌊	**As**	**75**	**0.368**	ug/L	0.024	6	6	80	6	KED
	Y	**89**		ug/L			285357	274074	0	Standard
	Kr	**83**		ug/L			53	71	11	Standard
⌈>	**In-1**	**115**		ug/L			7783	7297	1	KED
|	**Cd**	**111**	**0.068**	ug/L	0.015	22	3	18	19	KED
⌊	**Cd**	**114**	**0.067**	ug/L	0.008	11	5	42	10	KED
⌈>	**In**	**115**		ug/L			420460	392136	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	46	62	94	18	Standard
⌈>	**Tb**	**159**		ug/L			655044	634971	3	Standard
⌊	**Pb**	**208**	**0.109**	ug/L	0.004	3	75	4746	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:22:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	72977	0	Standard
	Cl	37		ug/L			4373298	4143195	1	Standard
>	Sc	45		ug/L			544532	658125	3	Standard
	Cr	52	14.868	ug/L	0.120	0	15553	369611	2	Standard
	Cr	53	14.847	ug/L	0.145	0	269	41460	2	Standard
>	Ge	72		ug/L			26846	26175	1	KED
	Cu	63	39.536	ug/L	0.772	1	27	117105	1	KED
	Cu	65	39.264	ug/L	0.608	1	13	58163	0	KED
	Zn	66	80.232	ug/L	1.222	1	22	32028	1	KED
	Zn	67	75.426	ug/L	2.439	3	3	5098	2	KED
	As	75	7.887	ug/L	0.201	2	6	1597	1	KED
	Y	89		ug/L			285357	530306	3	Standard
	Kr	83		ug/L			53	178	10	Standard
>	In-1	115		ug/L			7783	7541	3	KED
	Cd	111	0.356	ug/L	0.006	1	3	87	3	KED
	Cd	114	0.358	ug/L	0.018	4	5	210	1	KED
>	In	115		ug/L			420460	385122	2	Standard
	Ag	107	0.369	ug/L	0.001	0	62	4846	2	Standard
>	Tb	159		ug/L			655044	642915	0	Standard
	Pb	208	30.676	ug/L	0.698	2	75	1326826	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:26:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	71590	4	Standard
	Cl	37		ug/L			4373298	4069742	2	Standard
>	Sc	45		ug/L			544532	670780	2	Standard
|	Cr	52	15.483	ug/L	0.553	3	15553	391494	3	Standard
|	Cr	53	15.301	ug/L	0.300	1	269	43543	2	Standard
>	Ge	72		ug/L			26846	26063	1	KED
|	Cu	63	34.663	ug/L	0.509	1	27	102253	2	KED
|	Cu	65	34.424	ug/L	0.643	1	13	50775	1	KED
|	Zn	66	71.864	ug/L	1.503	2	22	28564	1	KED
|	Zn	67	69.749	ug/L	1.463	2	3	4694	1	KED
|	As	75	6.920	ug/L	0.216	3	6	1396	3	KED
	Y	89		ug/L			285357	560482	2	Standard
	Kr	83		ug/L			53	203	15	Standard
>	In-1	115		ug/L			7783	7444	2	KED
|	Cd	111	0.233	ug/L	0.027	11	3	57	10	KED
|	Cd	114	0.247	ug/L	0.022	8	5	145	8	KED
>	In	115		ug/L			420460	389388	1	Standard
|	Ag	107	0.206	ug/L	0.003	1	62	2765	2	Standard
>	Tb	159		ug/L			655044	650082	2	Standard
|	Pb	208	18.511	ug/L	0.362	1	75	809383	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:31:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	66749	1	Standard
	Cl	37		ug/L			4373298	4230078	1	Standard
>	Sc	45		ug/L			544532	673159	1	Standard
	Cr	52	17.045	ug/L	0.208	1	15553	430687	2	Standard
	Cr	53	17.143	ug/L	0.269	1	269	48915	1	Standard
>	Ge	72		ug/L			26846	25002	1	KED
	Cu	63	49.632	ug/L	0.630	1	27	140441	1	KED
	Cu	65	50.140	ug/L	1.284	2	13	70946	2	KED
	Zn	66	92.130	ug/L	0.417	0	22	35130	1	KED
	Zn	67	90.547	ug/L	1.009	1	3	5846	2	KED
	As	75	8.720	ug/L	0.228	2	6	1686	2	KED
	Y	89		ug/L			285357	553448	1	Standard
	Kr	83		ug/L			53	200	6	Standard
>	In-1	115		ug/L			7783	6861	1	KED
	Cd	111	0.443	ug/L	0.016	3	3	98	4	KED
	Cd	114	0.386	ug/L	0.022	5	5	206	6	KED
>	In	115		ug/L			420460	395930	2	Standard
	Ag	107	0.382	ug/L	0.012	3	62	5162	3	Standard
>	Tb	159		ug/L			655044	649479	2	Standard
	Pb	208	37.301	ug/L	0.941	2	75	1629254	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:35:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	72845	1	Standard
	Cl	37		ug/L			4373298	4164828	2	Standard
⌈>	Sc	45		ug/L			544532	657705	1	Standard
|	Cr	52	15.822	ug/L	0.092	0	15553	391904	0	Standard
⌊	Cr	53	15.461	ug/L	0.038	0	269	43139	1	Standard
⌈>	Ge	72		ug/L			26846	25421	1	KED
|	Cu	63	37.476	ug/L	0.659	1	27	107808	0	KED
|	Cu	65	37.760	ug/L	0.522	1	13	54324	0	KED
|	Zn	66	70.565	ug/L	2.072	2	22	27357	2	KED
|	Zn	67	68.488	ug/L	3.076	4	3	4494	2	KED
⌊	As	75	7.334	ug/L	0.336	4	6	1443	3	KED
	Y	89		ug/L			285357	545124	1	Standard
	Kr	83		ug/L			53	198	4	Standard
⌈>	In-1	115		ug/L			7783	6778	2	KED
|	Cd	111	0.216	ug/L	0.050	23	3	48	18	KED
⌊	Cd	114	0.250	ug/L	0.020	8	5	133	5	KED
⌈>	In	115		ug/L			420460	383859	0	Standard
⌊	Ag	107	0.173	ug/L	0.004	2	62	2292	3	Standard
⌈>	Tb	159		ug/L			655044	643852	0	Standard
⌊	Pb	208	18.395	ug/L	0.363	1	75	796810	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:39:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	67396	2	Standard
	Cl	37		ug/L			4373298	4006597	0	Standard
⌈>	Sc	45		ug/L			544532	643355	0	Standard
|	Cr	52	16.637	ug/L	0.076	0	15553	402189	1	Standard
⌊	Cr	53	16.616	ug/L	0.097	0	269	45327	1	Standard
⌈>	Ge	72		ug/L			26846	26711	1	KED
|	Cu	63	40.962	ug/L	1.045	2	27	123822	2	KED
|	Cu	65	40.188	ug/L	0.810	2	13	60753	2	KED
|	Zn	66	73.945	ug/L	0.940	1	22	30131	2	KED
|	Zn	67	74.393	ug/L	3.497	4	3	5133	5	KED
⌊	As	75	7.826	ug/L	0.136	1	6	1618	1	KED
	Y	89		ug/L			285357	532549	0	Standard
	Kr	83		ug/L			53	182	7	Standard
⌈>	In-1	115		ug/L			7783	7533	3	KED
|	Cd	111	0.313	ug/L	0.047	14	3	77	15	KED
⌊	Cd	114	0.351	ug/L	0.060	17	5	206	17	KED
⌈>	In	115		ug/L			420460	380510	2	Standard
⌊	Ag	107	0.296	ug/L	0.011	3	62	3851	2	Standard
⌈>	Tb	159		ug/L			655044	635723	2	Standard
⌊	Pb	208	23.069	ug/L	0.369	1	75	986534	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:44:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	70639	2	Standard
	Cl	37		ug/L			4373298	4019679	1	Standard
>	Sc	45		ug/L			544532	632138	1	Standard
	Cr	52	19.085	ug/L	0.190	0	15553	450607	1	Standard
	Cr	53	18.801	ug/L	0.116	0	269	50348	1	Standard
>	Ge	72		ug/L			26846	26652	1	KED
	Cu	63	37.555	ug/L	0.360	0	27	113273	1	KED
	Cu	65	37.503	ug/L	0.703	1	13	56561	1	KED
	Zn	66	75.292	ug/L	1.421	1	22	30613	3	KED
	Zn	67	73.483	ug/L	0.956	1	3	5058	3	KED
	As	75	8.520	ug/L	0.158	1	6	1756	0	KED
	Y	89		ug/L			285357	537396	2	Standard
	Kr	83		ug/L			53	187	11	Standard
>	In-1	115		ug/L			7783	7214	1	KED
	Cd	111	0.773	ug/L	0.040	5	3	177	6	KED
	Cd	114	0.742	ug/L	0.047	6	5	412	6	KED
>	In	115		ug/L			420460	362560	2	Standard
	Ag	107	0.597	ug/L	0.019	3	62	7351	0	Standard
>	Tb	159		ug/L			655044	610940	2	Standard
	Pb	208	23.192	ug/L	0.561	2	75	952953	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:48:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	69329	3	Standard
	Cl	37		ug/L			4373298	4096844	2	Standard
⌈>	Sc	45		ug/L			544532	655849	0	Standard
|	Cr	52	14.483	ug/L	0.420	2	15553	359271	1	Standard
⌊	Cr	53	14.667	ug/L	0.379	2	269	40821	1	Standard
⌈>	Ge	72		ug/L			26846	25212	1	KED
|	Cu	63	28.624	ug/L	0.432	1	27	81679	1	KED
|	Cu	65	28.235	ug/L	0.782	2	13	40290	2	KED
|	Zn	66	59.738	ug/L	2.456	4	22	22972	3	KED
|	Zn	67	59.815	ug/L	0.816	1	3	3895	1	KED
⌊	As	75	7.277	ug/L	0.157	2	6	1420	2	KED
	Y	89		ug/L			285357	517667	1	Standard
	Kr	83		ug/L			53	173	12	Standard
⌈>	In-1	115		ug/L			7783	7219	3	KED
|	Cd	111	0.185	ug/L	0.043	23	3	45	23	KED
⌊	Cd	114	0.199	ug/L	0.020	10	5	114	12	KED
⌈>	In	115		ug/L			420460	386149	1	Standard
⌊	Ag	107	0.141	ug/L	0.005	3	62	1897	4	Standard
⌈>	Tb	159		ug/L			655044	634912	3	Standard
⌊	Pb	208	13.707	ug/L	0.381	2	75	585256	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0114-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:53:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	62477	0	Standard
	Cl	**37**		ug/L			4373298	4204356	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	610805	2	Standard
|	**Cr**	**52**	**24.594**	ug/L	0.502	2	15553	555950	1	Standard
⌊	**Cr**	**53**	**24.467**	ug/L	0.478	1	269	63226	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	26862	2	KED
|	**Cu**	**63**	**14.099**	ug/L	0.185	1	27	42872	1	KED
|	**Cu**	**65**	**13.970**	ug/L	0.214	1	13	21241	1	KED
|	**Zn**	**66**	**28.106**	ug/L	1.284	4	22	11520	2	KED
|	**Zn**	**67**	**26.574**	ug/L	0.438	1	3	1846	4	KED
⌊	**As**	**75**	**2.921**	ug/L	0.062	2	6	611	1	KED
	Y	**89**		ug/L			285357	439271	1	Standard
	Kr	**83**		ug/L			53	107	17	Standard
⌈>	**In-1**	**115**		ug/L			7783	6728	7	KED
|	**Cd**	**111**	**1.831**	ug/L	0.103	5	3	387	5	KED
⌊	**Cd**	**114**	**1.884**	ug/L	0.090	4	5	966	3	KED
⌈>	**In**	**115**		ug/L			420460	392864	0	Standard
⌊	**Ag**	**107**	**0.077**	ug/L	0.002	2	62	1085	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	639905	0	Standard
⌊	**Pb**	**208**	**2.081**	ug/L	0.034	1	75	89673	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:57:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	38762	1	Standard
	Cl	**37**		ug/L			4373298	4156920	2	Standard
⎡>	**Sc**	**45**		ug/L			544532	530557	2	Standard
⎢	**Cr**	**52**	**-0.017**	ug/L	0.034	203	15553	14829	4	Standard
⎣	**Cr**	**53**	**-0.051**	ug/L	0.007	13	269	148	10	Standard
⎡>	**Ge**	**72**		ug/L			26846	26467	1	KED
⎢	**Cu**	**63**	**0.005**	ug/L	0.001	26	27	43	11	KED
⎢	**Cu**	**65**	**0.002**	ug/L	0.001	50	13	17	11	KED
⎢	**Zn**	**66**	**0.001**	ug/L	0.022	2190	22	22	38	KED
⎢	**Zn**	**67**	**0.028**	ug/L	0.054	192	3	5	66	KED
⎣	**As**	**75**	**0.001**	ug/L	0.006	448	6	6	15	KED
	Y	**89**		ug/L			285357	274458	1	Standard
	Kr	**83**		ug/L			53	43	24	Standard
⎡>	**In-1**	**115**		ug/L			7783	7291	1	KED
⎢	**Cd**	**111**	**0.002**	ug/L	0.011	486	3	3	66	KED
⎣	**Cd**	**114**	**-0.005**	ug/L	0.005	104	5	2	118	KED
⎡>	**In**	**115**		ug/L			420460	403342	2	Standard
⎣	**Ag**	**107**	**-0.001**	ug/L	0.000	73	62	53	7	Standard
⎡>	**Tb**	**159**		ug/L			655044	634978	2	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	29	75	119	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:01:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36941	2	Standard
	Cl	**37**		ug/L			4373298	4241056	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	491854	1	Standard
|	**Cr**	**52**	**48.909**	ug/L	0.365	0	15553	876567	1	Standard
⌊	**Cr**	**53**	**48.932**	ug/L	0.186	0	269	101579	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	27005	1	KED
|	**Cu**	**63**	**50.299**	ug/L	0.608	1	27	153705	0	KED
|	**Cu**	**65**	**50.446**	ug/L	1.057	2	13	77085	0	KED
|	**Zn**	**66**	**51.460**	ug/L	1.028	1	22	21201	1	KED
|	**Zn**	**67**	**49.722**	ug/L	3.731	7	3	3466	6	KED
⌊	**As**	**75**	**50.507**	ug/L	0.836	1	6	10519	0	KED
	Y	**89**		ug/L			285357	258083	3	Standard
	Kr	**83**		ug/L			53	61	11	Standard
⌈>	**In-1**	**115**		ug/L			7783	7585	4	KED
|	**Cd**	**111**	**49.198**	ug/L	1.406	2	3	11662	2	KED
⌊	**Cd**	**114**	**49.843**	ug/L	1.539	3	5	28724	1	KED
⌈>	**In**	**115**		ug/L			420460	374286	2	Standard
⌊	**Ag**	**107**	**50.397**	ug/L	1.078	2	62	636219	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	611327	2	Standard
⌊	**Pb**	**208**	**51.361**	ug/L	1.233	2	75	2111582	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:09:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37649	1	Standard
	Cl	**37**		ug/L			4373298	3929096	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	490369	3	Standard
|	**Cr**	**52**	**0.013**	ug/L	0.020	157	15553	14225	2	Standard
⌊	**Cr**	**53**	**-0.048**	ug/L	0.006	12	269	143	5	Standard
⌈>	**Ge**	**72**		ug/L			26846	25652	3	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	181	27	29	16	KED
|	**Cu**	**65**	**0.001**	ug/L	0.002	294	13	14	27	KED
|	**Zn**	**66**	**-0.011**	ug/L	0.018	167	22	17	44	KED
|	**Zn**	**67**	**-0.017**	ug/L	0.015	90	3	2	43	KED
⌊	**As**	**75**	**0.010**	ug/L	0.017	164	6	8	40	KED
	Y	**89**		ug/L			285357	254848	2	Standard
	Kr	**83**		ug/L			53	57	13	Standard
⌈>	**In-1**	**115**		ug/L			7783	7394	1	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	705	3	3	34	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.009	238	5	7	67	KED
⌈>	**In**	**115**		ug/L			420460	384427	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	50	62	86	15	Standard
⌈>	**Tb**	**159**		ug/L			655044	608130	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	8	75	142	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:13:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				37442	0	Standard
	Cl	**37**		ug/L				3935892	2	Standard
>	**Sc**	**45**		ug/L				508823	2	Standard
	Cr	**52**		ug/L				14729	6	Standard
	Cr	**53**		ug/L				130	7	Standard
>	**Ge**	**72**		ug/L				25706	1	KED
	Cu	**63**		ug/L				35	27	KED
	Cu	**65**		ug/L				25	8	KED
	Zn	**66**		ug/L				24	27	KED
	Zn	**67**		ug/L				1	100	KED
	As	**75**		ug/L				7	31	KED
	Y	**89**		ug/L				261919	1	Standard
	Kr	**83**		ug/L				60	21	Standard
>	**In-1**	**115**		ug/L				7141	2	KED
	Cd	**111**		ug/L				2	88	KED
	Cd	**114**		ug/L				3	53	KED
>	**In**	**115**		ug/L				388851	1	Standard
	Ag	**107**		ug/L				59	17	Standard
>	**Tb**	**159**		ug/L				618478	3	Standard
	Pb	**208**		ug/L				110	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:17:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36715	1	Standard
	Cl	**37**		ug/L			3935892	4413335	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	510308	0	Standard
|	**Cr**	**52**	**48.998**	ug/L	0.866	1	14729	911310	1	Standard
⌊	**Cr**	**53**	**48.576**	ug/L	0.667	1	130	104493	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	26154	1	KED
|	**Cu**	**63**	**50.235**	ug/L	0.586	1	35	148687	1	KED
|	**Cu**	**65**	**51.149**	ug/L	0.650	1	25	75722	1	KED
|	**Zn**	**66**	**50.229**	ug/L	1.046	2	24	20045	0	KED
|	**Zn**	**67**	**51.080**	ug/L	1.527	2	1	3448	1	KED
⌊	**As**	**75**	**49.972**	ug/L	1.219	2	7	10080	0	KED
	Y	**89**		ug/L			261919	270031	2	Standard
	Kr	**83**		ug/L			60	61	42	Standard
⌈>	**In-1**	**115**		ug/L			7141	7337	2	KED
|	**Cd**	**111**	**49.964**	ug/L	1.111	2	2	11461	0	KED
⌊	**Cd**	**114**	**50.588**	ug/L	1.636	3	3	28214	2	KED
⌈>	**In**	**115**		ug/L			388851	385244	0	Standard
⌊	**Ag**	**107**	**49.982**	ug/L	0.499	0	59	649505	0	Standard
⌈>	**Tb**	**159**		ug/L			618478	624778	1	Standard
⌊	**Pb**	**208**	**51.071**	ug/L	0.732	1	110	2146504	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:24:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36949	4	Standard
	Cl	**37**		ug/L			3935892	3972336	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	499059	2	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.023	3783	14729	14453	2	Standard
⌊	**Cr**	**53**	**0.002**	ug/L	0.007	399	130	132	13	Standard
⌈>	**Ge**	**72**		ug/L			25706	25513	0	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.004	473	35	33	32	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.002	34	25	15	21	KED
|	**Zn**	**66**	**-0.017**	ug/L	0.008	43	24	17	16	KED
|	**Zn**	**67**	**0.058**	ug/L	0.050	85	1	5	57	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	118	7	6	16	KED
	Y	**89**		ug/L			261919	263928	5	Standard
	Kr	**83**		ug/L			60	60	10	Standard
⌈>	**In-1**	**115**		ug/L			7141	7415	4	KED
|	**Cd**	**111**	**0.009**	ug/L	0.005	60	2	5	28	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.006	1350	3	3	90	KED
⌈>	**In**	**115**		ug/L			388851	394530	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	21	59	92	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	617557	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	102	110	136	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0589-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:29:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38442	0	Standard
	Cl	**37**		ug/L			3935892	4802930	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	493824	0	Standard
|	**Cr**	**52**	**0.068**	ug/L	0.012	18	14729	15499	1	Standard
⌊	**Cr**	**53**	**1.444**	ug/L	0.008	0	130	3129	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	26269	1	KED
|	**Cu**	**63**	**5.134**	ug/L	0.089	1	35	15294	1	KED
|	**Cu**	**65**	**5.195**	ug/L	0.120	2	25	7748	2	KED
|	**Zn**	**66**	**100.778**	ug/L	1.264	1	24	40372	0	KED
|	**Zn**	**67**	**90.197**	ug/L	1.362	1	1	6117	2	KED
⌊	**As**	**75**	**0.126**	ug/L	0.009	7	7	33	4	KED
	Y	**89**		ug/L			261919	251499	0	Standard
	Kr	**83**		ug/L			60	52	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7206	2	KED
|	**Cd**	**111**	**0.181**	ug/L	0.047	25	2	43	26	KED
⌊	**Cd**	**114**	**0.135**	ug/L	0.007	5	3	77	4	KED
⌈>	**In**	**115**		ug/L			388851	380307	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	168	59	63	12	Standard
⌈>	**Tb**	**159**		ug/L			618478	607704	2	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.001	5	110	991	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0599-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:33:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	42049	1	Standard
	Cl	**37**		ug/L			3935892	4122124	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	522443	2	Standard
|	**Cr**	**52**	**0.531**	ug/L	0.008	1	14729	25077	1	Standard
⌊	**Cr**	**53**	**0.573**	ug/L	0.017	2	130	1393	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	26189	1	KED
|	**Cu**	**63**	**60.624**	ug/L	0.446	0	35	179671	0	KED
|	**Cu**	**65**	**60.455**	ug/L	0.625	1	25	89619	2	KED
|	**Zn**	**66**	**11.494**	ug/L	0.043	0	24	4613	1	KED
|	**Zn**	**67**	**11.084**	ug/L	0.266	2	1	751	3	KED
⌊	**As**	**75**	**0.173**	ug/L	0.014	7	7	42	6	KED
	Y	**89**		ug/L			261919	277232	1	Standard
	Kr	**83**		ug/L			60	50	4	Standard
⌈>	**In-1**	**115**		ug/L			7141	7502	2	KED
|	**Cd**	**111**	**0.134**	ug/L	0.011	8	2	34	5	KED
⌊	**Cd**	**114**	**0.141**	ug/L	0.011	7	3	84	7	KED
⌈>	**In**	**115**		ug/L			388851	400662	2	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	16	59	153	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	632816	2	Standard
⌊	**Pb**	**208**	**1.137**	ug/L	0.004	0	110	48514	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0598-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:37:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	44723	2	Standard
	Cl	**37**		ug/L			3935892	4942584	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	560897	2	Standard
|	**Cr**	**52**	**0.224**	ug/L	0.024	10	14729	20737	1	Standard
⌊	**Cr**	**53**	**0.823**	ug/L	0.014	1	130	2086	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	24925	1	KED
|	**Cu**	**63**	**0.273**	ug/L	0.010	3	35	804	2	KED
|	**Cu**	**65**	**0.282**	ug/L	0.021	7	25	422	8	KED
|	**Zn**	**66**	**44.377**	ug/L	0.059	0	24	16882	0	KED
|	**Zn**	**67**	**39.983**	ug/L	1.568	3	1	2574	4	KED
⌊	**As**	**75**	**0.154**	ug/L	0.009	5	7	36	5	KED
	Y	**89**		ug/L			261919	273005	2	Standard
	Kr	**83**		ug/L			60	57	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	7166	1	KED
|	**Cd**	**111**	**3.119**	ug/L	0.084	2	2	701	1	KED
⌊	**Cd**	**114**	**3.019**	ug/L	0.015	0	3	1648	1	KED
⌈>	**In**	**115**		ug/L			388851	384801	0	Standard
⌊	**Ag**	**107**	**0.013**	ug/L	0.023	179	59	223	131	Standard
⌈>	**Tb**	**159**		ug/L			618478	628686	2	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	7	110	487	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0234-DUP2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:42:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45443	2	Standard
	Cl	**37**		ug/L			3935892	5098913	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	566549	1	Standard
|	**Cr**	**52**	**0.202**	ug/L	0.023	11	14729	20504	3	Standard
⌊	**Cr**	**53**	**0.869**	ug/L	0.021	2	130	2218	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	24480	1	KED
|	**Cu**	**63**	**0.560**	ug/L	0.007	1	35	1585	2	KED
|	**Cu**	**65**	**0.541**	ug/L	0.025	4	25	773	4	KED
|	**Zn**	**66**	**44.532**	ug/L	1.228	2	24	16636	1	KED
|	**Zn**	**67**	**38.883**	ug/L	1.015	2	1	2458	3	KED
⌊	**As**	**75**	**0.129**	ug/L	0.032	25	7	31	21	KED
	Y	**89**		ug/L			261919	276551	1	Standard
	Kr	**83**		ug/L			60	55	15	Standard
⌈>	**In-1**	**115**		ug/L			7141	6738	4	KED
|	**Cd**	**111**	**2.950**	ug/L	0.224	7	2	622	3	KED
⌊	**Cd**	**114**	**3.082**	ug/L	0.037	1	3	1582	2	KED
⌈>	**In**	**115**		ug/L			388851	388616	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	78	59	50	15	Standard
⌈>	**Tb**	**159**		ug/L			618478	614278	0	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.001	2	110	1179	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0234-MS2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:46:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	46579	3	Standard
	Cl	**37**		ug/L			3935892	5205995	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	585842	1	Standard
|	**Cr**	**52**	**4.985**	ug/L	0.072	1	14729	121680	1	Standard
⌊	**Cr**	**53**	**5.605**	ug/L	0.089	1	130	13976	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	25944	2	KED
|	**Cu**	**63**	**5.524**	ug/L	0.091	1	35	16251	3	KED
|	**Cu**	**65**	**5.461**	ug/L	0.106	1	25	8040	1	KED
|	**Zn**	**66**	**61.173**	ug/L	0.705	1	24	24214	2	KED
|	**Zn**	**67**	**55.774**	ug/L	1.116	2	1	3736	3	KED
⌊	**As**	**75**	**5.494**	ug/L	0.056	1	7	1106	1	KED
	Y	**89**		ug/L			261919	282433	0	Standard
	Kr	**83**		ug/L			60	59	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	6981	2	KED
|	**Cd**	**111**	**8.325**	ug/L	0.225	2	2	1819	0	KED
⌊	**Cd**	**114**	**8.119**	ug/L	0.183	2	3	4311	1	KED
⌈>	**In**	**115**		ug/L			388851	392445	0	Standard
⌊	**Ag**	**107**	**5.044**	ug/L	0.045	0	59	66829	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	623053	1	Standard
⌊	**Pb**	**208**	**5.460**	ug/L	0.102	1	110	228934	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:51:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45653	2	Standard
	Cl	**37**		ug/L			3935892	4503757	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	594232	3	Standard
|	**Cr**	**52**	**11.014**	ug/L	0.173	1	14729	251847	3	Standard
⌊	**Cr**	**53**	**11.069**	ug/L	0.174	1	130	27837	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	27333	1	KED
|	**Cu**	**63**	**5.728**	ug/L	0.189	3	35	17753	3	KED
|	**Cu**	**65**	**5.616**	ug/L	0.116	2	25	8712	1	KED
|	**Zn**	**66**	**23.642**	ug/L	0.613	2	24	9874	2	KED
|	**Zn**	**67**	**22.033**	ug/L	0.709	3	1	1555	1	KED
⌊	**As**	**75**	**3.152**	ug/L	0.082	2	7	671	1	KED
	Y	**89**		ug/L			261919	382320	3	Standard
	Kr	**83**		ug/L			60	80	14	Standard
⌈>	**In-1**	**115**		ug/L			7141	7074	2	KED
|	**Cd**	**111**	**0.275**	ug/L	0.034	12	2	63	13	KED
⌊	**Cd**	**114**	**0.241**	ug/L	0.028	11	3	133	9	KED
⌈>	**In**	**115**		ug/L			388851	394194	3	Standard
⌊	**Ag**	**107**	**0.038**	ug/L	0.001	1	59	563	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	631270	2	Standard
⌊	**Pb**	**208**	**3.484**	ug/L	0.035	0	110	148050	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:55:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	59254	0	Standard
	Cl	**37**		ug/L			3935892	4442140	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	585555	5	Standard
|	**Cr**	**52**	**12.213**	ug/L	0.408	3	14729	273094	1	Standard
⌊	**Cr**	**53**	**12.236**	ug/L	0.368	3	130	30286	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	25367	3	KED
|	**Cu**	**63**	**5.747**	ug/L	0.235	4	35	16518	2	KED
|	**Cu**	**65**	**5.638**	ug/L	0.208	3	25	8113	2	KED
|	**Zn**	**66**	**24.602**	ug/L	1.108	4	24	9528	1	KED
|	**Zn**	**67**	**22.676**	ug/L	2.435	10	1	1483	7	KED
⌊	**As**	**75**	**3.414**	ug/L	0.035	1	7	674	2	KED
	Y	**89**		ug/L			261919	388054	3	Standard
	Kr	**83**		ug/L			60	87	11	Standard
⌈>	**In-1**	**115**		ug/L			7141	7029	1	KED
|	**Cd**	**111**	**0.300**	ug/L	0.042	13	2	68	12	KED
⌊	**Cd**	**114**	**0.233**	ug/L	0.021	9	3	128	6	KED
⌈>	**In**	**115**		ug/L			388851	389091	3	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	6	59	511	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	626607	4	Standard
⌊	**Pb**	**208**	**3.645**	ug/L	0.067	1	110	153710	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:59:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	50551	0	Standard
	Cl	**37**		ug/L			3935892	4268292	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	537994	10	Standard
|	**Cr**	**52**	**35.889**	ug/L	2.722	7	14729	704248	3	Standard
⌊	**Cr**	**53**	**35.125**	ug/L	2.064	5	130	79387	5	Standard
⌈>	**Ge**	**72**		ug/L			25706	26474	1	KED
|	**Cu**	**63**	**32.363**	ug/L	0.330	1	35	96987	2	KED
|	**Cu**	**65**	**31.680**	ug/L	0.761	2	25	47492	3	KED
|	**Zn**	**66**	**108.063**	ug/L	1.936	1	24	43635	2	KED
|	**Zn**	**67**	**102.906**	ug/L	0.762	0	1	7032	1	KED
⌊	**As**	**75**	**28.220**	ug/L	0.940	3	7	5767	4	KED
	Y	**89**		ug/L			261919	363356	7	Standard
	Kr	**83**		ug/L			60	78	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	6765	2	KED
|	**Cd**	**111**	**25.993**	ug/L	1.007	3	2	5496	1	KED
⌊	**Cd**	**114**	**26.533**	ug/L	0.741	2	3	13644	0	KED
⌈>	**In**	**115**		ug/L			388851	368164	8	Standard
⌊	**Ag**	**107**	**27.136**	ug/L	0.954	3	59	336461	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	601491	9	Standard
⌊	**Pb**	**208**	**31.698**	ug/L	2.239	7	110	1277123	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 02:04:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	59088	0	Standard
	Cl	**37**		ug/L			3935892	4472030	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	595374	4	Standard
|	**Cr**	**52**	**34.707**	ug/L	1.599	4	14729	757228	0	Standard
⌊	**Cr**	**53**	**34.439**	ug/L	0.681	1	130	86436	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	25650	1	KED
|	**Cu**	**63**	**32.314**	ug/L	1.101	3	35	93796	2	KED
|	**Cu**	**65**	**31.444**	ug/L	0.588	1	25	45656	0	KED
|	**Zn**	**66**	**106.965**	ug/L	3.418	3	24	41833	2	KED
|	**Zn**	**67**	**98.850**	ug/L	3.877	3	1	6543	2	KED
⌊	**As**	**75**	**28.502**	ug/L	0.393	1	7	5642	0	KED
	Y	**89**		ug/L			261919	386735	2	Standard
	Kr	**83**		ug/L			60	100	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7217	1	KED
|	**Cd**	**111**	**26.235**	ug/L	0.146	0	2	5922	1	KED
⌊	**Cd**	**114**	**26.057**	ug/L	0.397	1	3	14300	0	KED
⌈>	**In**	**115**		ug/L			388851	400037	0	Standard
⌊	**Ag**	**107**	**25.145**	ug/L	0.334	1	59	339354	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	639732	2	Standard
⌊	**Pb**	**208**	**30.810**	ug/L	0.715	2	110	1325751	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:08:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37579	2	Standard
	Cl	**37**		ug/L			3935892	4226620	1	Standard
⎡>	**Sc**	**45**		ug/L			508823	508932	3	Standard
⎢	**Cr**	**52**	**-0.001**	ug/L	0.029	1980	14729	14695	1	Standard
⎣	**Cr**	**53**	**0.015**	ug/L	0.006	37	130	162	8	Standard
⎡>	**Ge**	**72**		ug/L			25706	26176	1	KED
⎢	**Cu**	**63**	**0.002**	ug/L	0.001	94	35	40	9	KED
⎢	**Cu**	**65**	**0.004**	ug/L	0.002	50	25	32	10	KED
⎢	**Zn**	**66**	**0.029**	ug/L	0.031	105	24	36	33	KED
⎢	**Zn**	**67**	**0.047**	ug/L	0.044	93	1	5	57	KED
⎣	**As**	**75**	**0.003**	ug/L	0.009	354	7	8	21	KED
	Y	**89**		ug/L			261919	267714	2	Standard
	Kr	**83**		ug/L			60	48	13	Standard
⎡>	**In-1**	**115**		ug/L			7141	7055	1	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.009	336	2	2	89	KED
⎣	**Cd**	**114**	**-0.004**	ug/L	0.003	97	3	1	107	KED
⎡>	**In**	**115**		ug/L			388851	391615	0	Standard
⎣	**Ag**	**107**	**0.002**	ug/L	0.000	9	59	85	2	Standard
⎡>	**Tb**	**159**		ug/L			618478	605337	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.001	78	110	143	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:12:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37469	1	Standard
	Cl	**37**		ug/L			3935892	4484147	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	521346	1	Standard
|	**Cr**	**52**	**48.840**	ug/L	0.589	1	14729	928245	3	Standard
⌊	**Cr**	**53**	**48.803**	ug/L	0.862	1	130	107282	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	25686	2	KED
|	**Cu**	**63**	**52.052**	ug/L	2.244	4	35	151225	2	KED
|	**Cu**	**65**	**51.017**	ug/L	1.014	1	25	74157	1	KED
|	**Zn**	**66**	**51.527**	ug/L	1.495	2	24	20189	1	KED
|	**Zn**	**67**	**51.229**	ug/L	2.273	4	1	3395	2	KED
⌊	**As**	**75**	**50.581**	ug/L	1.271	2	7	10019	1	KED
	Y	**89**		ug/L			261919	269800	1	Standard
	Kr	**83**		ug/L			60	59	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	6859	3	KED
|	**Cd**	**111**	**50.752**	ug/L	1.548	3	2	10880	0	KED
⌊	**Cd**	**114**	**51.846**	ug/L	1.975	3	3	27022	1	KED
⌈>	**In**	**115**		ug/L			388851	390224	3	Standard
⌊	**Ag**	**107**	**49.666**	ug/L	1.906	3	59	654111	6	Standard
⌈>	**Tb**	**159**		ug/L			618478	616224	2	Standard
⌊	**Pb**	**208**	**52.541**	ug/L	0.685	1	110	2178067	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:20:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37791	1	Standard
	Cl	**37**		ug/L			3935892	4195550	6	Standard
⌈>	**Sc**	**45**		ug/L			508823	512500	6	Standard
|	**Cr**	**52**	**-0.024**	ug/L	0.017	71	14729	14380	4	Standard
⌊	**Cr**	**53**	**0.010**	ug/L	0.004	40	130	152	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	26166	3	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	41	35	26	18	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.007	72	25	10	97	KED
|	**Zn**	**66**	**-0.025**	ug/L	0.014	55	24	15	33	KED
|	**Zn**	**67**	**0.018**	ug/L	0.016	86	1	3	34	KED
⌊	**As**	**75**	**0.002**	ug/L	0.005	208	7	8	15	KED
	Y	**89**		ug/L			261919	259581	5	Standard
	Kr	**83**		ug/L			60	51	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7309	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.004	101	2	3	25	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	392	3	3	96	KED
⌈>	**In**	**115**		ug/L			388851	385183	6	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	48	59	89	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	605144	5	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	10	110	172	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0649-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:24:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			37442	52198	1	Standard
	Cl	37		ug/L			3935892	4309630	3	Standard
>	Sc	45		ug/L			508823	528643	1	Standard
	Cr	52	0.587	ug/L	0.016	2	14729	26421	1	Standard
	Cr	53	0.631	ug/L	0.033	5	130	1539	3	Standard
>	Ge	72		ug/L			25706	17720	4	KED
	Cu	63	5.095	ug/L	0.026	0	35	10241	4	KED
	Cu	65	5.036	ug/L	0.167	3	25	5062	1	KED
	Zn	66	144.937	ug/L	2.890	1	24	39150	3	KED
	Zn	67	130.544	ug/L	3.240	2	1	5968	3	KED
	As	75	0.099	ug/L	0.022	22	7	18	20	KED
	Y	89		ug/L			261919	271388	2	Standard
	Kr	83		ug/L			60	46	32	Standard
>	In-1	115		ug/L			7141	7298	1	KED
	Cd	111	0.030	ug/L	0.020	64	2	9	44	KED
	Cd	114	-0.003	ug/L	0.008	281	3	2	188	KED
>	In	115		ug/L			388851	396781	1	Standard
	Ag	107	0.003	ug/L	0.001	23	59	107	8	Standard
>	Tb	159		ug/L			618478	614748	0	Standard
	Pb	208	0.845	ug/L	0.006	0	110	35055	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0650-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:27:37

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			37442	30577	1	Standard
Cl	37		ug/L			3935892	165047941	2	Standard
> Sc	45		ug/L			508823	199389	0	Standard
Cr	52	3.411	ug/L	0.116	3	14729	30157	2	Standard
Cr	53	178.366	ug/L	4.710	2	130	149791	2	Standard
> Ge	72		ug/L			25706	4933	5	KED
Cu	63	41.904	ug/L	0.596	1	35	23386	3	KED
Cu	65	41.010	ug/L	0.987	2	25	11450	5	KED
Zn	66	277.106	ug/L	4.750	1	24	20834	4	KED
Zn	67	243.223	ug/L	5.930	2	1	3096	5	KED
As	75	33.526	ug/L	0.761	2	7	1275	3	KED
Y	89		ug/L			261919	103481	1	Standard
Kr	83		ug/L			60	99405	2	Standard
> In-1	115		ug/L			7141	2312	1	KED
Cd	111	2.856	ug/L	0.137	4	2	207	3	KED
Cd	114	2.885	ug/L	0.062	2	3	508	2	KED
> In	115		ug/L			388851	132655	0	Standard
Ag	107	0.032	ug/L	0.004	12	59	164	11	Standard
> Tb	159		ug/L			618478	234489	0	Standard
Pb	208	22.254	ug/L	0.056	0	110	351114	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0651-01
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:30:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			37442	45352	0	Standard
Cl	37		ug/L			3935892	169288153	3	Standard
> Sc	45		ug/L			508823	255833	1	Standard
Cr	52	**3.670**	ug/L	0.077	2	14729	41074	2	Standard
Cr	53	**187.927**	ug/L	0.484	0	130	202497	2	Standard
> Ge	72		ug/L			25706	5921	8	KED
Cu	63	**16.501**	ug/L	0.947	5	35	11029	2	KED
Cu	65	**15.559**	ug/L	0.893	5	25	5202	2	KED
Zn	66	**261.060**	ug/L	11.764	4	24	23510	4	KED
Zn	67	**231.963**	ug/L	10.543	4	1	3536	3	KED
As	75	**1.241**	ug/L	0.049	3	7	58	10	KED
Y	89		ug/L			261919	118340	1	Standard
Kr	83		ug/L			60	77878	5	Standard
> In-1	115		ug/L			7141	2826	1	KED
Cd	111	**1.299**	ug/L	0.123	9	2	115	8	KED
Cd	114	**1.390**	ug/L	0.039	2	3	300	3	KED
> In	115		ug/L			388851	153146	2	Standard
Ag	107	**0.031**	ug/L	0.004	14	59	182	12	Standard
> Tb	159		ug/L			618478	269428	1	Standard
Pb	208	**2.532**	ug/L	0.013	0	110	45941	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0653-01
Sample Dil Factor:
Comments:
DEL
Sample Date/Time: Friday, January 13, 2023 02:34:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	57362	0	Standard
	Cl	**37**		ug/L			3935892	8704843	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	509002	1	Standard
|	**Cr**	**52**	**0.617**	ug/L	0.015	2	14729	26003	0	Standard
⌊	**Cr**	**53**	**11.552**	ug/L	0.309	2	130	24892	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	21951	3	KED
|	**Cu**	**63**	**3.512**	ug/L	0.107	3	35	8748	2	KED
|	**Cu**	**65**	**3.452**	ug/L	0.097	2	25	4307	1	KED
|	**Zn**	**66**	**98.644**	ug/L	2.283	2	24	33008	1	KED
|	**Zn**	**67**	**89.339**	ug/L	2.802	3	1	5061	3	KED
⌊	**As**	**75**	**0.302**	ug/L	0.035	11	7	57	12	KED
	Y	**89**		ug/L			261919	271049	2	Standard
	Kr	**83**		ug/L			60	273	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	8507	0	KED
|	**Cd**	**111**	**0.022**	ug/L	0.005	25	2	9	15	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.008	27	3	24	22	KED
⌈>	**In**	**115**		ug/L			388851	378730	0	Standard
⌊	**Ag**	**107**	**0.020**	ug/L	0.000	2	59	313	2	Standard
⌈>	**Tb**	**159**		ug/L			618478	667228	1	Standard
⌊	**Pb**	**208**	**0.312**	ug/L	0.004	1	110	14112	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0655-01
Sample Dil Factor: 5
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:37:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39868	0	Standard
	Cl	**37**		ug/L			3935892	5185019	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	511299	2	Standard
|	**Cr**	**52**	**1.716**	ug/L	0.045	2	14729	46258	3	Standard
⌊	**Cr**	**53**	**6.982**	ug/L	0.138	1	130	15161	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	20726	3	KED
|	**Cu**	**63**	**9.961**	ug/L	0.234	2	35	23376	1	KED
|	**Cu**	**65**	**9.909**	ug/L	0.143	1	25	11645	4	KED
|	**Zn**	**66**	**34.946**	ug/L	0.866	2	24	11062	5	KED
|	**Zn**	**67**	**32.365**	ug/L	1.419	4	1	1731	3	KED
⌊	**As**	**75**	**0.444**	ug/L	0.064	14	7	77	15	KED
	Y	**89**		ug/L			261919	274307	3	Standard
	Kr	**83**		ug/L			60	85	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	8181	0	KED
|	**Cd**	**111**	**0.166**	ug/L	0.036	21	2	45	20	KED
⌊	**Cd**	**114**	**0.158**	ug/L	0.007	4	3	102	4	KED
⌈>	**In**	**115**		ug/L			388851	390169	3	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.001	12	59	205	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	664665	3	Standard
⌊	**Pb**	**208**	**2.474**	ug/L	0.052	2	110	110703	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0656-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:40:36

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	55641	0	Standard
	Cl	**37**		ug/L			3935892	5643750	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	542343	1	Standard
|	**Cr**	**52**	**5.295**	ug/L	0.065	1	14729	118656	0	Standard
⌊	**Cr**	**53**	**9.381**	ug/L	0.109	1	130	21559	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19287	6	KED
|	**Cu**	**63**	**10.974**	ug/L	0.570	5	35	23930	3	KED
|	**Cu**	**65**	**11.154**	ug/L	0.451	4	25	12173	3	KED
|	**Zn**	**66**	**81.935**	ug/L	2.893	3	24	24068	3	KED
|	**Zn**	**67**	**76.896**	ug/L	0.311	0	1	3829	6	KED
⌊	**As**	**75**	**2.560**	ug/L	0.222	8	7	385	6	KED
	Y	**89**		ug/L			261919	282365	1	Standard
	Kr	**83**		ug/L			60	83	19	Standard
⌈>	**In-1**	**115**		ug/L			7141	7766	1	KED
|	**Cd**	**111**	**0.147**	ug/L	0.035	23	2	38	19	KED
⌊	**Cd**	**114**	**0.216**	ug/L	0.007	3	3	131	4	KED
⌈>	**In**	**115**		ug/L			388851	368381	1	Standard
⌊	**Ag**	**107**	**0.016**	ug/L	0.000	2	59	254	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	643998	1	Standard
⌊	**Pb**	**208**	**3.843**	ug/L	0.074	1	110	166575	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0660-03
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:43:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	49743	3	Standard
	Cl	**37**		ug/L			3935892	6933263	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	474534	5	Standard
|	**Cr**	**52**	**7.179**	ug/L	0.093	1	14729	135846	3	Standard
⌊	**Cr**	**53**	**13.846**	ug/L	0.351	2	130	27761	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18190	5	KED
|	**Cu**	**63**	**12.306**	ug/L	0.232	1	35	25338	3	KED
|	**Cu**	**65**	**12.143**	ug/L	0.526	4	25	12501	2	KED
|	**Zn**	**66**	**40.722**	ug/L	0.518	1	24	11304	4	KED
|	**Zn**	**67**	**39.781**	ug/L	0.409	1	1	1868	5	KED
⌊	**As**	**75**	**0.994**	ug/L	0.062	6	7	144	8	KED
	Y	**89**		ug/L			261919	253107	5	Standard
	Kr	**83**		ug/L			60	79	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7807	2	KED
|	**Cd**	**111**	**0.055**	ug/L	0.004	7	2	16	6	KED
⌊	**Cd**	**114**	**0.041**	ug/L	0.027	66	3	27	55	KED
⌈>	**In**	**115**		ug/L			388851	358658	4	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.001	15	59	132	10	Standard
⌈>	**Tb**	**159**		ug/L			618478	633858	4	Standard
⌊	**Pb**	**208**	**2.266**	ug/L	0.051	2	110	96682	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0660-05
Sample Dil Factor: 2
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:47:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	43598	2	Standard
	Cl	**37**		ug/L			3935892	5660116	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	472702	1	Standard
|	**Cr**	**52**	**5.309**	ug/L	0.033	0	14729	103674	2	Standard
⌊	**Cr**	**53**	**9.709**	ug/L	0.059	0	130	19443	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18264	2	KED
|	**Cu**	**63**	**18.389**	ug/L	0.250	1	35	38030	2	KED
|	**Cu**	**65**	**18.083**	ug/L	0.408	2	25	18710	3	KED
|	**Zn**	**66**	**77.192**	ug/L	1.957	2	24	21512	4	KED
|	**Zn**	**67**	**75.648**	ug/L	1.709	2	1	3566	1	KED
⌊	**As**	**75**	**0.942**	ug/L	0.021	2	7	137	3	KED
	Y	**89**		ug/L			261919	272650	2	Standard
	Kr	**83**		ug/L			60	66	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7798	3	KED
|	**Cd**	**111**	**0.093**	ug/L	0.035	37	2	25	29	KED
⌊	**Cd**	**114**	**0.059**	ug/L	0.017	28	3	39	27	KED
⌈>	**In**	**115**		ug/L			388851	366860	2	Standard
⌊	**Ag**	**107**	**0.012**	ug/L	0.003	22	59	208	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	639361	2	Standard
⌊	**Pb**	**208**	**7.042**	ug/L	0.156	2	110	302945	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-02
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:50:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36285	1	Standard
	Cl	**37**		ug/L			3935892	4142953	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	500147	1	Standard
|	**Cr**	**52**	**11.202**	ug/L	0.168	1	14729	215380	2	Standard
⌊	**Cr**	**53**	**13.137**	ug/L	0.116	0	130	27794	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18934	5	KED
|	**Cu**	**63**	**5.699**	ug/L	0.204	3	35	12221	3	KED
|	**Cu**	**65**	**5.673**	ug/L	0.216	3	25	6087	2	KED
|	**Zn**	**66**	**23.320**	ug/L	0.600	2	24	6742	3	KED
|	**Zn**	**67**	**22.829**	ug/L	0.348	1	1	1117	7	KED
⌊	**As**	**75**	**3.422**	ug/L	0.050	1	7	504	5	KED
	Y	**89**		ug/L			261919	355571	0	Standard
	Kr	**83**		ug/L			60	88	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	8031	1	KED
|	**Cd**	**111**	**0.224**	ug/L	0.005	2	2	59	0	KED
⌊	**Cd**	**114**	**0.251**	ug/L	0.005	2	3	157	2	KED
⌈>	**In**	**115**		ug/L			388851	374091	2	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.001	1	59	512	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	659107	1	Standard
⌊	**Pb**	**208**	**3.075**	ug/L	0.013	0	110	136460	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:53:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	29247	6	Standard
	Cl	**37**		ug/L			3935892	3751040	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	425826	5	Standard
|	**Cr**	**52**	**0.074**	ug/L	0.027	36	14729	13457	6	Standard
⌊	**Cr**	**53**	**2.237**	ug/L	0.088	3	130	4115	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18506	2	KED
|	**Cu**	**63**	**0.005**	ug/L	0.006	116	35	35	30	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	142	25	15	18	KED
|	**Zn**	**66**	**0.016**	ug/L	0.010	61	24	22	9	KED
|	**Zn**	**67**	**0.050**	ug/L	0.038	74	1	3	50	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.007	100	7	4	22	KED
	Y	**89**		ug/L			261919	232884	3	Standard
	Kr	**83**		ug/L			60	50	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	7932	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	228	2	2	57	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.004	1664	3	4	54	KED
⌈>	**In**	**115**		ug/L			388851	353903	4	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	53	59	41	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	602381	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	20	110	185	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:57:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	30052	2	Standard
	Cl	**37**		ug/L			3935892	4070988	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	452826	0	Standard
|	**Cr**	**52**	**50.727**	ug/L	1.547	3	14729	836686	2	Standard
⌊	**Cr**	**53**	**52.295**	ug/L	0.883	1	130	99817	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18086	7	KED
|	**Cu**	**63**	**56.383**	ug/L	2.935	5	35	115130	1	KED
|	**Cu**	**65**	**55.544**	ug/L	1.834	3	25	56783	4	KED
|	**Zn**	**66**	**53.327**	ug/L	2.812	5	24	14692	4	KED
|	**Zn**	**67**	**52.875**	ug/L	2.045	3	1	2466	5	KED
⌊	**As**	**75**	**52.460**	ug/L	0.760	1	7	7316	6	KED
	Y	**89**		ug/L			261919	253844	1	Standard
	Kr	**83**		ug/L			60	66	28	Standard
⌈>	**In-1**	**115**		ug/L			7141	8068	1	KED
|	**Cd**	**111**	**48.291**	ug/L	0.715	1	2	12185	2	KED
⌊	**Cd**	**114**	**48.229**	ug/L	0.306	0	3	29590	1	KED
⌈>	**In**	**115**		ug/L			388851	365899	0	Standard
⌊	**Ag**	**107**	**52.142**	ug/L	1.599	3	59	643600	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	632630	1	Standard
⌊	**Pb**	**208**	**48.210**	ug/L	1.087	2	110	2051604	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:03:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	28889	3	Standard
	Cl	**37**		ug/L			3935892	3758010	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	434363	2	Standard
|	**Cr**	**52**	**0.069**	ug/L	0.006	9	14729	13649	2	Standard
⌊	**Cr**	**53**	**1.505**	ug/L	0.014	0	130	2865	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	16729	4	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	138	35	19	36	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.008	91	25	8	86	KED
|	**Zn**	**66**	**-0.019**	ug/L	0.032	173	24	11	72	KED
|	**Zn**	**67**	**0.103**	ug/L	0.075	72	1	5	57	KED
⌊	**As**	**75**	**0.002**	ug/L	0.013	616	7	5	28	KED
	Y	**89**		ug/L			261919	239890	3	Standard
	Kr	**83**		ug/L			60	57	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	8221	2	KED
|	**Cd**	**111**	**0.008**	ug/L	0.005	65	2	5	26	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	168	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	356058	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	59	59	60	8	Standard
⌈>	**Tb**	**159**		ug/L			618478	609431	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	21	110	177	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-03
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:06:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45819	2	Standard
	Cl	**37**		ug/L			3935892	3834492	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	469497	2	Standard
|	**Cr**	**52**	**10.906**	ug/L	0.077	0	14729	197174	2	Standard
⌊	**Cr**	**53**	**11.800**	ug/L	0.157	1	130	23443	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	17884	5	KED
|	**Cu**	**63**	**5.331**	ug/L	0.239	4	35	10794	2	KED
|	**Cu**	**65**	**5.383**	ug/L	0.231	4	25	5456	2	KED
|	**Zn**	**66**	**21.944**	ug/L	0.638	2	24	5995	5	KED
|	**Zn**	**67**	**20.799**	ug/L	0.616	2	1	960	4	KED
⌊	**As**	**75**	**3.018**	ug/L	0.056	1	7	421	7	KED
	Y	**89**		ug/L			261919	334065	3	Standard
	Kr	**83**		ug/L			60	70	10	Standard
⌈>	**In-1**	**115**		ug/L			7141	7687	3	KED
|	**Cd**	**111**	**0.212**	ug/L	0.027	12	2	53	13	KED
⌊	**Cd**	**114**	**0.201**	ug/L	0.043	21	3	121	23	KED
⌈>	**In**	**115**		ug/L			388851	355257	3	Standard
⌊	**Ag**	**107**	**0.029**	ug/L	0.002	8	59	403	6	Standard
⌈>	**Tb**	**159**		ug/L			618478	622980	1	Standard
⌊	**Pb**	**208**	**3.035**	ug/L	0.018	0	110	127329	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-04
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:09:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52362	1	Standard
	Cl	**37**		ug/L			3935892	3894152	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	484566	3	Standard
|	**Cr**	**52**	**10.859**	ug/L	0.259	2	14729	202630	2	Standard
⌊	**Cr**	**53**	**11.969**	ug/L	0.316	2	130	24530	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19083	3	KED
|	**Cu**	**63**	**16.042**	ug/L	0.548	3	35	34636	1	KED
|	**Cu**	**65**	**16.055**	ug/L	0.573	3	25	17341	1	KED
|	**Zn**	**66**	**25.283**	ug/L	0.451	1	24	7370	2	KED
|	**Zn**	**67**	**23.090**	ug/L	1.121	4	1	1137	1	KED
⌊	**As**	**75**	**3.567**	ug/L	0.159	4	7	529	0	KED
	Y	**89**		ug/L			261919	353434	3	Standard
	Kr	**83**		ug/L			60	83	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	8028	2	KED
|	**Cd**	**111**	**0.285**	ug/L	0.025	8	2	74	6	KED
⌊	**Cd**	**114**	**0.255**	ug/L	0.016	6	3	159	5	KED
⌈>	**In**	**115**		ug/L			388851	366434	0	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.003	9	59	504	8	Standard
⌈>	**Tb**	**159**		ug/L			618478	626646	1	Standard
⌊	**Pb**	**208**	**3.339**	ug/L	0.084	2	110	140876	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-05
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:13:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	47432	0	Standard
	Cl	**37**		ug/L			3935892	3761227	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	467605	1	Standard
|	**Cr**	**52**	**11.771**	ug/L	0.130	1	14729	210887	0	Standard
⌊	**Cr**	**53**	**12.713**	ug/L	0.419	3	130	25141	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18384	4	KED
|	**Cu**	**63**	**12.197**	ug/L	0.165	1	35	25403	5	KED
|	**Cu**	**65**	**12.137**	ug/L	0.253	2	25	12639	4	KED
|	**Zn**	**66**	**24.866**	ug/L	0.404	1	24	6982	3	KED
|	**Zn**	**67**	**22.291**	ug/L	1.656	7	1	1056	3	KED
⌊	**As**	**75**	**3.295**	ug/L	0.069	2	7	472	6	KED
	Y	**89**		ug/L			261919	330589	0	Standard
	Kr	**83**		ug/L			60	78	18	Standard
⌈>	**In-1**	**115**		ug/L			7141	7620	3	KED
|	**Cd**	**111**	**0.203**	ug/L	0.028	13	2	51	12	KED
⌊	**Cd**	**114**	**0.241**	ug/L	0.028	11	3	144	14	KED
⌈>	**In**	**115**		ug/L			388851	349395	1	Standard
⌊	**Ag**	**107**	**0.035**	ug/L	0.001	3	59	464	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	615718	0	Standard
⌊	**Pb**	**208**	**3.303**	ug/L	0.063	1	110	136910	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-06
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:16:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52437	1	Standard
	Cl	**37**		ug/L			3935892	3863136	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	505134	2	Standard
|	**Cr**	**52**	**11.420**	ug/L	0.297	2	14729	221504	4	Standard
⌊	**Cr**	**53**	**12.124**	ug/L	0.188	1	130	25913	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18893	6	KED
|	**Cu**	**63**	**6.031**	ug/L	0.265	4	35	12897	2	KED
|	**Cu**	**65**	**5.983**	ug/L	0.364	6	25	6398	0	KED
|	**Zn**	**66**	**24.325**	ug/L	0.964	3	24	7018	5	KED
|	**Zn**	**67**	**23.434**	ug/L	0.627	2	1	1142	4	KED
⌊	**As**	**75**	**3.313**	ug/L	0.181	5	7	487	7	KED
	Y	**89**		ug/L			261919	352138	2	Standard
	Kr	**83**		ug/L			60	97	10	Standard
⌈>	**In-1**	**115**		ug/L			7141	8010	1	KED
|	**Cd**	**111**	**0.246**	ug/L	0.041	16	2	64	15	KED
⌊	**Cd**	**114**	**0.225**	ug/L	0.021	9	3	141	10	KED
⌈>	**In**	**115**		ug/L			388851	367636	1	Standard
⌊	**Ag**	**107**	**0.038**	ug/L	0.002	4	59	531	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	639905	2	Standard
⌊	**Pb**	**208**	**3.630**	ug/L	0.063	1	110	156341	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-07
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 03:19:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35287	0	Standard
	Cl	**37**		ug/L			3935892	3824908	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	489545	3	Standard
|	**Cr**	**52**	**10.545**	ug/L	0.371	3	14729	199139	0	Standard
⌊	**Cr**	**53**	**11.345**	ug/L	0.099	0	130	23505	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19198	4	KED
|	**Cu**	**63**	**5.450**	ug/L	0.110	2	35	11860	3	KED
|	**Cu**	**65**	**5.338**	ug/L	0.111	2	25	5814	3	KED
|	**Zn**	**66**	**22.152**	ug/L	0.101	0	24	6501	4	KED
|	**Zn**	**67**	**23.516**	ug/L	1.377	5	1	1164	1	KED
⌊	**As**	**75**	**2.963**	ug/L	0.090	3	7	444	5	KED
	Y	**89**		ug/L			261919	348017	2	Standard
	Kr	**83**		ug/L			60	82	12	Standard
⌈>	**In-1**	**115**		ug/L			7141	7935	5	KED
|	**Cd**	**111**	**0.254**	ug/L	0.018	7	2	66	9	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.008	3	3	151	6	KED
⌈>	**In**	**115**		ug/L			388851	362649	0	Standard
⌊	**Ag**	**107**	**0.031**	ug/L	0.001	2	59	434	2	Standard
⌈>	**Tb**	**159**		ug/L			618478	631352	2	Standard
⌊	**Pb**	**208**	**3.366**	ug/L	0.068	2	110	143039	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-08
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:23:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35039	1	Standard
	Cl	**37**		ug/L			3935892	3810338	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	495239	3	Standard
|	**Cr**	**52**	**10.704**	ug/L	0.108	1	14729	204441	3	Standard
⌊	**Cr**	**53**	**11.590**	ug/L	0.037	0	130	24291	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19125	3	KED
|	**Cu**	**63**	**5.851**	ug/L	0.138	2	35	12682	2	KED
|	**Cu**	**65**	**5.854**	ug/L	0.148	2	25	6351	2	KED
|	**Zn**	**66**	**22.654**	ug/L	0.431	1	24	6619	1	KED
|	**Zn**	**67**	**22.374**	ug/L	1.264	5	1	1106	8	KED
⌊	**As**	**75**	**3.196**	ug/L	0.096	2	7	476	6	KED
	Y	**89**		ug/L			261919	338897	2	Standard
	Kr	**83**		ug/L			60	85	4	Standard
⌈>	**In-1**	**115**		ug/L			7141	8043	5	KED
|	**Cd**	**111**	**0.248**	ug/L	0.023	9	2	65	12	KED
⌊	**Cd**	**114**	**0.249**	ug/L	0.054	21	3	155	15	KED
⌈>	**In**	**115**		ug/L			388851	361753	1	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.001	3	59	497	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	627931	1	Standard
⌊	**Pb**	**208**	**3.308**	ug/L	0.012	0	110	139838	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-09
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:26:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	49957	4	Standard
	Cl	**37**		ug/L			3935892	3732248	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	473410	4	Standard
|	**Cr**	**52**	**11.968**	ug/L	0.309	2	14729	216719	3	Standard
⌊	**Cr**	**53**	**12.680**	ug/L	0.206	1	130	25384	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18438	4	KED
|	**Cu**	**63**	**5.579**	ug/L	0.003	0	35	11664	4	KED
|	**Cu**	**65**	**5.613**	ug/L	0.227	4	25	5867	2	KED
|	**Zn**	**66**	**23.488**	ug/L	0.373	1	24	6615	3	KED
|	**Zn**	**67**	**21.846**	ug/L	1.634	7	1	1039	6	KED
⌊	**As**	**75**	**3.054**	ug/L	0.160	5	7	438	0	KED
	Y	**89**		ug/L			261919	326903	4	Standard
	Kr	**83**		ug/L			60	74	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7590	0	KED
|	**Cd**	**111**	**0.235**	ug/L	0.015	6	2	58	6	KED
⌊	**Cd**	**114**	**0.265**	ug/L	0.034	12	3	156	12	KED
⌈>	**In**	**115**		ug/L			388851	351981	3	Standard
⌊	**Ag**	**107**	**0.037**	ug/L	0.005	13	59	488	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	613500	1	Standard
⌊	**Pb**	**208**	**3.541**	ug/L	0.019	0	110	146255	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-10
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 03:29:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	56251	3	Standard
	Cl	**37**		ug/L			3935892	3907703	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	506726	2	Standard
|	**Cr**	**52**	**12.065**	ug/L	0.186	1	14729	233829	1	Standard
⌊	**Cr**	**53**	**12.746**	ug/L	0.278	2	130	27313	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	18287	4	KED
|	**Cu**	**63**	**9.579**	ug/L	0.357	3	35	19823	1	KED
|	**Cu**	**65**	**9.657**	ug/L	0.209	2	25	10004	2	KED
|	**Zn**	**66**	**26.844**	ug/L	0.364	1	24	7497	3	KED
|	**Zn**	**67**	**25.602**	ug/L	0.571	2	1	1209	5	KED
⌊	**As**	**75**	**3.222**	ug/L	0.058	1	7	459	5	KED
	Y	**89**		ug/L			261919	362772	2	Standard
	Kr	**83**		ug/L			60	84	19	Standard
⌈>	**In-1**	**115**		ug/L			7141	7660	3	KED
|	**Cd**	**111**	**0.277**	ug/L	0.030	10	2	69	8	KED
⌊	**Cd**	**114**	**0.239**	ug/L	0.020	8	3	143	9	KED
⌈>	**In**	**115**		ug/L			388851	368635	4	Standard
⌊	**Ag**	**107**	**0.111**	ug/L	0.005	4	59	1442	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	636185	3	Standard
⌊	**Pb**	**208**	**3.671**	ug/L	0.056	1	110	157172	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:33:18

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53431	1	Standard
	Cl	**37**		ug/L			3935892	3782257	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	477294	1	Standard
|	**Cr**	**52**	**9.806**	ug/L	0.132	1	14729	181660	2	Standard
⌊	**Cr**	**53**	**10.342**	ug/L	0.149	1	130	20901	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	19228	3	KED
|	**Cu**	**63**	**5.378**	ug/L	0.118	2	35	11727	4	KED
|	**Cu**	**65**	**5.396**	ug/L	0.134	2	25	5886	1	KED
|	**Zn**	**66**	**23.235**	ug/L	0.251	1	24	6830	4	KED
|	**Zn**	**67**	**22.465**	ug/L	0.166	0	1	1116	4	KED
⌊	**As**	**75**	**3.058**	ug/L	0.056	1	7	459	5	KED
	Y	**89**		ug/L			261919	337631	2	Standard
	Kr	**83**		ug/L			60	83	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7769	0	KED
|	**Cd**	**111**	**0.275**	ug/L	0.009	3	2	69	4	KED
⌊	**Cd**	**114**	**0.253**	ug/L	0.034	13	3	153	12	KED
⌈>	**In**	**115**		ug/L			388851	356054	1	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	5	59	465	6	Standard
⌈>	**Tb**	**159**		ug/L			618478	617888	2	Standard
⌊	**Pb**	**208**	**3.470**	ug/L	0.050	1	110	144322	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:36:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	29827	1	Standard
	Cl	**37**		ug/L			3935892	3549098	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	427770	6	Standard
|	**Cr**	**52**	**0.050**	ug/L	0.002	3	14729	13154	6	Standard
⌊	**Cr**	**53**	**0.767**	ug/L	0.042	5	130	1488	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19184	3	KED
|	**Cu**	**63**	**0.004**	ug/L	0.005	130	35	34	30	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.001	20	25	13	7	KED
|	**Zn**	**66**	**0.029**	ug/L	0.040	135	24	27	44	KED
|	**Zn**	**67**	**0.049**	ug/L	0.041	83	1	3	50	KED
⌊	**As**	**75**	**0.001**	ug/L	0.014	1315	7	5	36	KED
	Y	**89**		ug/L			261919	232348	5	Standard
	Kr	**83**		ug/L			60	42	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7944	3	KED
|	**Cd**	**111**	**0.010**	ug/L	0.007	68	2	5	28	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	180	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	351005	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.002	130	59	40	43	Standard
⌈>	**Tb**	**159**		ug/L			618478	591446	6	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	293	110	113	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:40:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	32239	2	Standard
	Cl	**37**		ug/L			3935892	4033391	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	462611	0	Standard
|	**Cr**	**52**	**50.473**	ug/L	0.748	1	14729	850626	1	Standard
⌊	**Cr**	**53**	**50.391**	ug/L	0.491	0	130	98269	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18506	5	KED
|	**Cu**	**63**	**55.410**	ug/L	2.789	5	35	115830	0	KED
|	**Cu**	**65**	**54.895**	ug/L	1.413	2	25	57447	3	KED
|	**Zn**	**66**	**50.816**	ug/L	0.279	0	24	14348	5	KED
|	**Zn**	**67**	**51.885**	ug/L	1.576	3	1	2477	4	KED
⌊	**As**	**75**	**51.142**	ug/L	1.266	2	7	7294	3	KED
	Y	**89**		ug/L			261919	254210	0	Standard
	Kr	**83**		ug/L			60	46	29	Standard
⌈>	**In-1**	**115**		ug/L			7141	7967	3	KED
|	**Cd**	**111**	**48.010**	ug/L	0.504	1	2	11962	3	KED
⌊	**Cd**	**114**	**47.306**	ug/L	0.817	1	3	28658	3	KED
⌈>	**In**	**115**		ug/L			388851	370041	2	Standard
⌊	**Ag**	**107**	**51.551**	ug/L	1.686	3	59	643125	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	628484	1	Standard
⌊	**Pb**	**208**	**49.578**	ug/L	0.461	0	110	2096185	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:46:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	32559	1	Standard
	Cl	**37**		ug/L			3935892	3777445	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	465322	2	Standard
|	**Cr**	**52**	**0.044**	ug/L	0.022	50	14729	14202	3	Standard
⌊	**Cr**	**53**	**0.627**	ug/L	0.009	1	130	1347	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	16137	5	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.002	41	35	11	33	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.005	67	25	8	49	KED
|	**Zn**	**66**	**-0.030**	ug/L	0.011	36	24	8	35	KED
|	**Zn**	**67**	**0.017**	ug/L	0.003	14	1	1		KED
⌊	**As**	**75**	**0.001**	ug/L	0.021	1914	7	4	52	KED
	Y	**89**		ug/L			261919	244745	3	Standard
	Kr	**83**		ug/L			60	54	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7782	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	260	2	2	57	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	219	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	369783	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	241	59	62	22	Standard
⌈>	**Tb**	**159**		ug/L			618478	609718	3	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.001	236	110	90	42	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:49:28

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53767	2	Standard
	Cl	**37**		ug/L			3935892	3931066	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	498640	3	Standard
|	**Cr**	**52**	**8.863**	ug/L	0.079	0	14729	172903	3	Standard
⌊	**Cr**	**53**	**9.494**	ug/L	0.035	0	130	20062	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18465	5	KED
|	**Cu**	**63**	**33.966**	ug/L	1.270	3	35	70915	3	KED
|	**Cu**	**65**	**34.172**	ug/L	0.705	2	25	35696	3	KED
|	**Zn**	**66**	**20.170**	ug/L	0.655	3	24	5688	2	KED
|	**Zn**	**67**	**18.470**	ug/L	2.287	12	1	877	6	KED
⌊	**As**	**75**	**2.871**	ug/L	0.135	4	7	413	5	KED
	Y	**89**		ug/L			261919	358018	4	Standard
	Kr	**83**		ug/L			60	81	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7671	0	KED
|	**Cd**	**111**	**0.200**	ug/L	0.051	25	2	51	23	KED
⌊	**Cd**	**114**	**0.219**	ug/L	0.037	16	3	131	16	KED
⌈>	**In**	**115**		ug/L			388851	368835	3	Standard
⌊	**Ag**	**107**	**0.027**	ug/L	0.004	15	59	387	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	627256	5	Standard
⌊	**Pb**	**208**	**2.747**	ug/L	0.057	2	110	115959	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:52:48

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38251	3	Standard
	Cl	**37**		ug/L			3935892	3984346	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	524918	1	Standard
|	**Cr**	**52**	**8.661**	ug/L	0.135	1	14729	178221	2	Standard
⌊	**Cr**	**53**	**9.148**	ug/L	0.249	2	130	20346	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	17528	4	KED
|	**Cu**	**63**	**4.315**	ug/L	0.128	2	35	8577	3	KED
|	**Cu**	**65**	**4.441**	ug/L	0.057	1	25	4421	3	KED
|	**Zn**	**66**	**20.119**	ug/L	0.741	3	24	5394	6	KED
|	**Zn**	**67**	**18.542**	ug/L	0.633	3	1	839	2	KED
⌊	**As**	**75**	**2.882**	ug/L	0.059	2	7	394	5	KED
	Y	**89**		ug/L			261919	360591	1	Standard
	Kr	**83**		ug/L			60	84	17	Standard
⌈>	**In-1**	**115**		ug/L			7141	7899	5	KED
|	**Cd**	**111**	**0.227**	ug/L	0.028	12	2	59	15	KED
⌊	**Cd**	**114**	**0.213**	ug/L	0.029	13	3	131	11	KED
⌈>	**In**	**115**		ug/L			388851	383690	2	Standard
⌊	**Ag**	**107**	**0.032**	ug/L	0.002	5	59	473	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	641290	2	Standard
⌊	**Pb**	**208**	**2.975**	ug/L	0.073	2	110	128419	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:56:09

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54349	2	Standard
	Cl	**37**		ug/L			3935892	3857211	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	478592	2	Standard
|	**Cr**	**52**	**9.996**	ug/L	0.060	0	14729	185391	1	Standard
⌊	**Cr**	**53**	**10.499**	ug/L	0.068	0	130	21279	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18997	6	KED
|	**Cu**	**63**	**4.685**	ug/L	0.105	2	35	10088	5	KED
|	**Cu**	**65**	**4.745**	ug/L	0.078	1	25	5115	5	KED
|	**Zn**	**66**	**20.524**	ug/L	0.834	4	24	5952	4	KED
|	**Zn**	**67**	**19.569**	ug/L	0.835	4	1	960	7	KED
⌊	**As**	**75**	**2.910**	ug/L	0.090	3	7	432	9	KED
	Y	**89**		ug/L			261919	337270	0	Standard
	Kr	**83**		ug/L			60	66	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7899	2	KED
|	**Cd**	**111**	**0.217**	ug/L	0.006	2	2	56	0	KED
⌊	**Cd**	**114**	**0.251**	ug/L	0.030	12	3	154	14	KED
⌈>	**In**	**115**		ug/L			388851	355643	1	Standard
⌊	**Ag**	**107**	**0.030**	ug/L	0.004	13	59	419	13	Standard
⌈>	**Tb**	**159**		ug/L			618478	612011	2	Standard
⌊	**Pb**	**208**	**3.192**	ug/L	0.070	2	110	131486	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:59:30

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53372	1	Standard
	Cl	**37**		ug/L			3935892	3994721	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	519026	4	Standard
|	**Cr**	**52**	**10.036**	ug/L	0.274	2	14729	201777	4	Standard
⌊	**Cr**	**53**	**10.138**	ug/L	0.424	4	130	22272	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18455	4	KED
|	**Cu**	**63**	**5.127**	ug/L	0.149	2	35	10723	1	KED
|	**Cu**	**65**	**5.120**	ug/L	0.171	3	25	5361	2	KED
|	**Zn**	**66**	**22.713**	ug/L	0.793	3	24	6411	7	KED
|	**Zn**	**67**	**20.811**	ug/L	1.364	6	1	991	4	KED
⌊	**As**	**75**	**2.945**	ug/L	0.100	3	7	424	7	KED
	Y	**89**		ug/L			261919	356728	2	Standard
	Kr	**83**		ug/L			60	82	17	Standard
⌈>	**In-1**	**115**		ug/L			7141	7733	2	KED
|	**Cd**	**111**	**0.236**	ug/L	0.035	14	2	60	13	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.013	5	3	147	3	KED
⌈>	**In**	**115**		ug/L			388851	376766	3	Standard
⌊	**Ag**	**107**	**0.032**	ug/L	0.002	6	59	466	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	633262	4	Standard
⌊	**Pb**	**208**	**3.272**	ug/L	0.072	2	110	139425	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-16
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 04:02:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52834	2	Standard
	Cl	**37**		ug/L			3935892	4116039	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	539603	1	Standard
|	**Cr**	**52**	**12.719**	ug/L	0.089	0	14729	261725	1	Standard
⌊	**Cr**	**53**	**13.270**	ug/L	0.335	2	130	30288	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18879	4	KED
|	**Cu**	**63**	**5.949**	ug/L	0.168	2	35	12723	2	KED
|	**Cu**	**65**	**5.963**	ug/L	0.094	1	25	6385	3	KED
|	**Zn**	**66**	**78.769**	ug/L	1.874	2	24	22668	2	KED
|	**Zn**	**67**	**72.928**	ug/L	1.118	1	1	3555	5	KED
⌊	**As**	**75**	**5.791**	ug/L	0.022	0	7	848	4	KED
	Y	**89**		ug/L			261919	395646	1	Standard
	Kr	**83**		ug/L			60	88	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7626	0	KED
|	**Cd**	**111**	**0.297**	ug/L	0.034	11	2	73	11	KED
⌊	**Cd**	**114**	**0.273**	ug/L	0.056	20	3	162	20	KED
⌈>	**In**	**115**		ug/L			388851	367750	3	Standard
⌊	**Ag**	**107**	**0.050**	ug/L	0.002	4	59	670	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	637006	2	Standard
⌊	**Pb**	**208**	**4.624**	ug/L	0.136	2	110	198180	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-17
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 04:06:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54653	2	Standard
	Cl	**37**		ug/L			3935892	4105182	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	540722	5	Standard
|	**Cr**	**52**	**12.079**	ug/L	0.261	2	14729	250020	7	Standard
⌊	**Cr**	**53**	**12.334**	ug/L	0.102	0	130	28218	5	Standard
⌈>	**Ge**	**72**		ug/L			25706	18467	4	KED
|	**Cu**	**63**	**12.927**	ug/L	0.210	1	35	27030	3	KED
|	**Cu**	**65**	**12.837**	ug/L	0.435	3	25	13419	1	KED
|	**Zn**	**66**	**37.834**	ug/L	0.644	1	24	10664	3	KED
|	**Zn**	**67**	**34.194**	ug/L	0.931	2	1	1631	6	KED
⌊	**As**	**75**	**4.757**	ug/L	0.133	2	7	682	2	KED
	Y	**89**		ug/L			261919	383562	5	Standard
	Kr	**83**		ug/L			60	83	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7490	2	KED
|	**Cd**	**111**	**0.223**	ug/L	0.014	6	2	55	5	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.011	4	3	142	6	KED
⌈>	**In**	**115**		ug/L			388851	372779	4	Standard
⌊	**Ag**	**107**	**0.039**	ug/L	0.001	3	59	551	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	635151	5	Standard
⌊	**Pb**	**208**	**3.619**	ug/L	0.061	1	110	154695	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-18
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 04:09:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54613	0	Standard
	Cl	**37**		ug/L			3935892	4079084	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	526219	1	Standard
|	**Cr**	**52**	**12.488**	ug/L	0.084	0	14729	250854	0	Standard
⌊	**Cr**	**53**	**12.578**	ug/L	0.117	0	130	28000	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	18889	4	KED
|	**Cu**	**63**	**6.138**	ug/L	0.168	2	35	13141	4	KED
|	**Cu**	**65**	**6.195**	ug/L	0.211	3	25	6637	4	KED
|	**Zn**	**66**	**42.290**	ug/L	1.568	3	24	12181	0	KED
|	**Zn**	**67**	**39.628**	ug/L	2.292	5	1	1931	5	KED
⌊	**As**	**75**	**5.686**	ug/L	0.144	2	7	833	3	KED
	Y	**89**		ug/L			261919	379360	1	Standard
	Kr	**83**		ug/L			60	75	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	7611	0	KED
|	**Cd**	**111**	**0.278**	ug/L	0.058	21	2	69	20	KED
⌊	**Cd**	**114**	**0.245**	ug/L	0.024	9	3	145	9	KED
⌈>	**In**	**115**		ug/L			388851	361300	2	Standard
⌊	**Ag**	**107**	**0.046**	ug/L	0.002	3	59	615	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	617962	1	Standard
⌊	**Pb**	**208**	**4.088**	ug/L	0.040	0	110	170065	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-19
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 04:12:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	56444	3	Standard
	Cl	**37**		ug/L			3935892	4097287	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	547304	3	Standard
|	**Cr**	**52**	**13.736**	ug/L	0.108	0	14729	285364	2	Standard
⌊	**Cr**	**53**	**13.895**	ug/L	0.313	2	130	32145	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19026	4	KED
|	**Cu**	**63**	**6.791**	ug/L	0.865	12	35	14675	15	KED
|	**Cu**	**65**	**6.865**	ug/L	0.893	13	25	7422	15	KED
|	**Zn**	**66**	**41.984**	ug/L	0.316	0	24	12192	3	KED
|	**Zn**	**67**	**38.124**	ug/L	1.189	3	1	1873	5	KED
⌊	**As**	**75**	**6.127**	ug/L	0.050	0	7	904	4	KED
	Y	**89**		ug/L			261919	386678	2	Standard
	Kr	**83**		ug/L			60	95	26	Standard
⌈>	**In-1**	**115**		ug/L			7141	7577	0	KED
|	**Cd**	**111**	**0.258**	ug/L	0.024	9	2	64	8	KED
⌊	**Cd**	**114**	**0.276**	ug/L	0.002	0	3	163	1	KED
⌈>	**In**	**115**		ug/L			388851	362836	1	Standard
⌊	**Ag**	**107**	**0.053**	ug/L	0.003	4	59	700	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	623269	1	Standard
⌊	**Pb**	**208**	**4.395**	ug/L	0.070	1	110	184415	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-20
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 04:16:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	55971	2	Standard
	Cl	**37**		ug/L			3935892	4208511	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	547082	2	Standard
|	**Cr**	**52**	**12.921**	ug/L	0.209	1	14729	269332	3	Standard
⌊	**Cr**	**53**	**13.120**	ug/L	0.362	2	130	30354	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19148	4	KED
|	**Cu**	**63**	**5.286**	ug/L	0.206	3	35	11464	0	KED
|	**Cu**	**65**	**5.335**	ug/L	0.267	5	25	5790	0	KED
|	**Zn**	**66**	**34.872**	ug/L	0.775	2	24	10189	2	KED
|	**Zn**	**67**	**34.124**	ug/L	0.857	2	1	1687	3	KED
⌊	**As**	**75**	**4.450**	ug/L	0.163	3	7	662	4	KED
	Y	**89**		ug/L			261919	379850	1	Standard
	Kr	**83**		ug/L			60	97	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	8187	0	KED
|	**Cd**	**111**	**0.225**	ug/L	0.012	5	2	60	5	KED
⌊	**Cd**	**114**	**0.213**	ug/L	0.035	16	3	136	16	KED
⌈>	**In**	**115**		ug/L			388851	373826	2	Standard
⌊	**Ag**	**107**	**0.042**	ug/L	0.002	3	59	590	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	623887	2	Standard
⌊	**Pb**	**208**	**3.505**	ug/L	0.016	0	110	147227	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:19:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36131	2	Standard
	Cl	**37**		ug/L			3935892	4029611	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	494404	3	Standard
|	**Cr**	**52**	**0.012**	ug/L	0.017	144	14729	14511	1	Standard
⌊	**Cr**	**53**	**0.347**	ug/L	0.023	6	130	848	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18504	5	KED
|	**Cu**	**63**	**0.006**	ug/L	0.004	65	35	38	18	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.013	518	25	15	90	KED
|	**Zn**	**66**	**0.002**	ug/L	0.011	489	24	18	15	KED
|	**Zn**	**67**	**0.093**	ug/L	0.087	92	1	5	66	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.006	254	7	5	19	KED
	Y	**89**		ug/L			261919	259304	3	Standard
	Kr	**83**		ug/L			60	52	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7531	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.004	111	2	3	25	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.015	236	3	7	111	KED
⌈>	**In**	**115**		ug/L			388851	393904	3	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	15	59	33	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	621123	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	160	110	131	24	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:22:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35362	3	Standard
	Cl	**37**		ug/L			3935892	4231043	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	493577	4	Standard
|	**Cr**	**52**	**49.083**	ug/L	0.661	1	14729	882835	4	Standard
⌊	**Cr**	**53**	**49.041**	ug/L	0.657	1	130	102047	5	Standard
⌈>	**Ge**	**72**		ug/L			25706	18460	6	KED
|	**Cu**	**63**	**59.107**	ug/L	1.870	3	35	123328	2	KED
|	**Cu**	**65**	**57.581**	ug/L	2.332	4	25	60067	1	KED
|	**Zn**	**66**	**54.866**	ug/L	1.313	2	24	15441	3	KED
|	**Zn**	**67**	**54.256**	ug/L	1.386	2	1	2586	6	KED
⌊	**As**	**75**	**52.208**	ug/L	0.255	0	7	7433	5	KED
	Y	**89**		ug/L			261919	257094	3	Standard
	Kr	**83**		ug/L			60	67	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7549	2	KED
|	**Cd**	**111**	**49.823**	ug/L	0.725	1	2	11761	0	KED
⌊	**Cd**	**114**	**49.496**	ug/L	0.980	1	3	28407	0	KED
⌈>	**In**	**115**		ug/L			388851	378296	3	Standard
⌊	**Ag**	**107**	**50.703**	ug/L	1.395	2	59	646808	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	611644	3	Standard
⌊	**Pb**	**208**	**51.216**	ug/L	0.698	1	110	2107525	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:29:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35789	0	Standard
	Cl	**37**		ug/L			3935892	3974937	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	486489	3	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.012	85	14729	14330	2	Standard
⌊	**Cr**	**53**	**0.335**	ug/L	0.010	2	130	809	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	17916	4	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	147	35	20	32	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.001	36	25	14	7	KED
|	**Zn**	**66**	**-0.019**	ug/L	0.016	79	24	12	39	KED
|	**Zn**	**67**	**0.027**	ug/L	0.064	233	1	2	114	KED
⌊	**As**	**75**	**0.002**	ug/L	0.008	309	7	5	21	KED
	Y	**89**		ug/L			261919	251168	2	Standard
	Kr	**83**		ug/L			60	40	23	Standard
⌈>	**In-1**	**115**		ug/L			7141	7509	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.010	1174	2	3	69	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.009	290	3	5	89	KED
⌈>	**In**	**115**		ug/L			388851	376371	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	94	59	64	10	Standard
⌈>	**Tb**	**159**		ug/L			618478	609475	2	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	49	110	93	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:32:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39255	2	Standard
	Cl	**37**		ug/L			3935892	4167603	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	558656	4	Standard
|	**Cr**	**52**	**0.071**	ug/L	0.014	20	14729	17591	4	Standard
⌊	**Cr**	**53**	**0.267**	ug/L	0.009	3	130	771	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18375	5	KED
|	**Cu**	**63**	**0.006**	ug/L	0.003	52	35	38	20	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.003	57	25	12	22	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.036	778	24	16	65	KED
|	**Zn**	**67**	**0.026**	ug/L	0.027	103	1	2	43	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.012	416	7	4	33	KED
	Y	**89**		ug/L			261919	290172	4	Standard
	Kr	**83**		ug/L			60	52	21	Standard
⌈>	**In-1**	**115**		ug/L			7141	8085	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	78	2	2	21	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.000	5	3	5	0	KED
⌈>	**In**	**115**		ug/L			388851	408997	4	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.002	387	59	68	33	Standard
⌈>	**Tb**	**159**		ug/L			618478	658175	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	49	110	161	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:35:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38182	2	Standard
	Cl	**37**		ug/L			3935892	4187240	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	583490	1	Standard
|	**Cr**	**52**	**0.040**	ug/L	0.010	25	14729	17719	2	Standard
⌊	**Cr**	**53**	**0.243**	ug/L	0.007	3	130	747	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19517	4	KED
|	**Cu**	**63**	**0.001**	ug/L	0.005	862	35	27	34	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.004	89	25	14	30	KED
|	**Zn**	**66**	**-0.006**	ug/L	0.004	78	24	17	11	KED
|	**Zn**	**67**	**0.047**	ug/L	0.039	82	1	3	50	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.004	492	7	5	13	KED
	Y	**89**		ug/L			261919	296408	1	Standard
	Kr	**83**		ug/L			60	69	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	8165	4	KED
|	**Cd**	**111**	**0.005**	ug/L	0.009	198	2	4	53	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.000	13	3	5	1	KED
⌈>	**In**	**115**		ug/L			388851	417711	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	317	59	58	31	Standard
⌈>	**Tb**	**159**		ug/L			618478	665365	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	63	110	144	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:39:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39750	3	Standard
	Cl	**37**		ug/L			3935892	4218484	0	Standard
⎡>	**Sc**	**45**		ug/L			508823	579532	1	Standard
⎢	**Cr**	**52**	**0.048**	ug/L	0.017	35	14729	17768	2	Standard
⎣	**Cr**	**53**	**0.221**	ug/L	0.001	0	130	688	1	Standard
⎡>	**Ge**	**72**		ug/L			25706	19411	4	KED
⎢	**Cu**	**63**	**0.005**	ug/L	0.004	76	35	37	20	KED
⎢	**Cu**	**65**	**-0.003**	ug/L	0.003	94	25	15	18	KED
⎢	**Zn**	**66**	**-0.012**	ug/L	0.015	123	24	15	33	KED
⎢	**Zn**	**67**	**0.023**	ug/L	0.045	194	1	2	86	KED
⎣	**As**	**75**	**-0.002**	ug/L	0.013	764	7	5	36	KED
	Y	**89**		ug/L			261919	304191	2	Standard
	Kr	**83**		ug/L			60	65	1	Standard
⎡>	**In-1**	**115**		ug/L			7141	8096	2	KED
⎢	**Cd**	**111**	**0.001**	ug/L	0.006	553	2	3	41	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.008	838	3	3	137	KED
⎡>	**In**	**115**		ug/L			388851	426597	1	Standard
⎣	**Ag**	**107**	**-0.001**	ug/L	0.000	28	59	46	10	Standard
⎡>	**Tb**	**159**		ug/L			618478	670699	0	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	48	110	150	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:42:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37932	1	Standard
	Cl	**37**		ug/L			3935892	3835604	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	490492	1	Standard
|	**Cr**	**52**	**-0.034**	ug/L	0.024	70	14729	13610	3	Standard
⌊	**Cr**	**53**	**0.263**	ug/L	0.011	4	130	669	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18256	4	KED
|	**Cu**	**63**	**0.004**	ug/L	0.005	127	35	33	28	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.005	170	25	15	33	KED
|	**Zn**	**66**	**0.120**	ug/L	0.040	33	24	50	21	KED
|	**Zn**	**67**	**0.133**	ug/L	0.008	5	1	7	0	KED
⌊	**As**	**75**	**0.001**	ug/L	0.011	1112	7	5	25	KED
	Y	**89**		ug/L			261919	249996	2	Standard
	Kr	**83**		ug/L			60	48	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	7163	0	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.007	86975	2	2	57	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	180	3	4	44	KED
⌈>	**In**	**115**		ug/L			388851	378838	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	42	59	40	20	Standard
⌈>	**Tb**	**159**		ug/L			618478	596430	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	11	110	57	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:45:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39350	2	Standard
	Cl	**37**		ug/L			3935892	3901739	3	Standard
⎡>	**Sc**	**45**		ug/L			508823	494241	2	Standard
⎢	**Cr**	**52**	**-0.037**	ug/L	0.013	34	14729	13657	3	Standard
⎣	**Cr**	**53**	**0.275**	ug/L	0.012	4	130	698	1	Standard
⎡>	**Ge**	**72**		ug/L			25706	17631	2	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.004	109	35	31	21	KED
⎢	**Cu**	**65**	**0.000**	ug/L	0.009	2201	25	17	49	KED
⎢	**Zn**	**66**	**0.031**	ug/L	0.044	143	24	25	48	KED
⎢	**Zn**	**67**	**0.027**	ug/L	0.024	87	1	2	43	KED
⎣	**As**	**75**	**0.002**	ug/L	0.014	633	7	5	33	KED
	Y	**89**		ug/L			261919	248488	2	Standard
	Kr	**83**		ug/L			60	51	13	Standard
⎡>	**In-1**	**115**		ug/L			7141	7183	3	KED
⎢	**Cd**	**111**	**0.013**	ug/L	0.006	50	2	5	28	KED
⎣	**Cd**	**114**	**0.004**	ug/L	0.011	241	3	6	97	KED
⎡>	**In**	**115**		ug/L			388851	378376	2	Standard
⎣	**Ag**	**107**	**-0.002**	ug/L	0.000	2	59	30	0	Standard
⎡>	**Tb**	**159**		ug/L			618478	587861	2	Standard
⎣	**Pb**	**208**	**-0.001**	ug/L	0.000	5	110	58	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:49:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	40232	1	Standard
	Cl	**37**		ug/L			3935892	3860857	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	494660	2	Standard
|	**Cr**	**52**	**-0.040**	ug/L	0.017	41	14729	13612	2	Standard
⌊	**Cr**	**53**	**0.262**	ug/L	0.018	6	130	673	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18347	4	KED
|	**Cu**	**63**	**0.001**	ug/L	0.004	367	35	27	33	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.008	225	25	14	52	KED
|	**Zn**	**66**	**0.039**	ug/L	0.014	35	24	28	13	KED
|	**Zn**	**67**	**0.094**	ug/L	0.084	88	1	5	66	KED
⌊	**As**	**75**	**0.007**	ug/L	0.009	124	7	6	17	KED
	Y	**89**		ug/L			261919	251181	1	Standard
	Kr	**83**		ug/L			60	47	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7421	3	KED
|	**Cd**	**111**	**0.002**	ug/L	0.008	373	2	3	56	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.007	531	3	3	125	KED
⌈>	**In**	**115**		ug/L			388851	371104	1	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.001	29	59	35	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	591821	0	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	2	110	40	4	Standard

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00033
Instrument: ICPMS2
Calibration Date: 01/12/2023 15:38

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Cadmium-114	0	0	0.1	530	10	605.9	20	602	50	605.32	100	584.21
Copper-65	0	0	0.5	1554	10	1619.5	20	1588.75	50	1521.36	100	1495.02
Zinc-67	0	0	6	62.5	10	73.6	20	71	50	70.04	100	68.21

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00033	Instrument:	ICPMS2
Calibration Date:	01/12/2023 15:38		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Cadmium-114	487.905	49.3	0.9997		0.998	
Copper-65	1296.438	49.1	0.9998		0.998	
Zinc-67	57.55833	49.4	0.9997		0.998	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MS **Sequence:** SLAØ147 **Cal:** GAØØØ33

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	LØ439		
		-CAL2	LØ149		
		-CAL3	LØ15Ø		
		-CAL4	LØ151		
		-CAL5	LØ44Ø		
		-CAL6	LØ152		
		-IBL1	—		
		-ICV1	LØ243		
		-ICB1	LØ439		
		-CCV1	LØ44Ø		
		-CCB1	LØ439		
	✓	-CRL1	—		std mode noisy-Multiple↑
		-CRL1	LØ149		
		-IFA1	LØ394		Cr^{53}↑
		-IFB1	LØ395		
		-HCV1	LØ232		
		-HCV2	LØ233		Zn↓ - Zn<200
		-IBL2	—		
		-CCV2			
		-CCB2			
		BLAØ278-BLK1	REN		
		-BS1			
		23AØ19Ø-Ø1		2	
		23AØ192-Ø1		5	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ192-Φ2	REN	5	
		22LΦ435-Φ1	↓	↓	Be only
		BLAΦΦ15-DUP3	↓	↓	↓
		↓ -MS3	↓	↓	↓
		↓ -MSD3	↓	↓	↓
		SEQ-IBL3			
	✓	-CCV3			Ge sl. noisy
		-CCV3			
		-CCB3			
		23AΦ192-Φ3	REN		Zn↑ Zn NR
		↓ -Φ4	↓		
		23AΦ191-Φ1	↓		
		BLAΦ278-DUP1	↓		
		↓ -MS1	↓		
		↓ -MSD1	↓		
		23AΦ126-Φ1	↓	2	
		↓ -Φ2	↓	↓	
		↓ -Φ3	↓	↓	
		23AΦ192-Φ3RE1	↓	5	Zn only
		SEQ-CCV4			
		-CCB4			
	✓	-CAL1			Ba, Be, Ni, Se Removed
		-CCV5			
		↓ -CCB5			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKLΦ6Φ8-BLK2	SWN	20	Ag only
		↓ -BS2	↓	↓	↓
		BLAΦ224-BLK1			Pb > ½RL
		↓ -BS1			
		22KΦ328-17RE1			Cu, Zn ↑ / Pb > 10x BLK cont. Cu, Zn NR
		BLAΦ224-DUP1			/ Cr Pb RPD↑
		-MS1			/ ~~Pb %R↓~~ Pb STL /
		↓ -MSD1		↓	↓ / ~~Pb %R↑~~ ↓ ↓
		22LΦ383-Φ2	↓	50	Ag, Cr only
		SEQ-IBL4			
		↓ -CCV6			
		↓ -CCB6			Ge noisy-%R & Analytes OK
		22KΦ328-17RE2	SWN	100	Cu, Zn only
		BLAΦ224-DUP2			Cu, Zn RPD↑
		-MS2			Cu STL / Zn %R↑
		↓ -MSD2		↓	↓ ↓ ↓
		22LΦ329-Φ7		50	In sl. noisy-%R & Analytes OK Ag, Cr only
		BKLΦ6Φ8-DUP2			
		-MS2			Ag %R↓
		-MSD2			↓
		↓ -PS2	↓	↓	60.uL K7409 ↓
		SEQ-IBL5			
		↓ -CCV7			
		↓ -CCB7			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	22LΦ383-Φ3	SWN	2050	Ag, Cr only
		-Φ4		50	
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		22LΦ417-Φ1			
		-Φ2			
		-Φ3			
		SEQ-IBL6			
		-CCV8			Sc, In, Tb noisy
		-CCB8			
		BLAΦ516-BLK1	SWN	20	
		-BS1			
	✓	22LΦ417-Φ4		50	Ag, Cr only
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		-Φ9			
	OK ~~X~~	23AΦ1Φ9-Φ1			Zn only
		SEQ-IBL7			
		-CCV9			
		-CCB9			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22LΦ617-Φ1	REN	2	Cr only
		22LΦ459-Φ1	SWN	20	
		-Φ2	↓	↓	
		-Φ3	↓	↓	
		-Φ4	↓	↓	
		-Φ5	↓	↓	
		-Φ6	↓	↓	
		-Φ7	↓	↓	
		23AΦ114-Φ1	↓	↓	
		SEQ-IBL8			
		-CCVA			
		-CCBA			
	✓	-CAL1			
		-CCVB			
		-CCBB			
		22LΦ589-Φ1	REN	5	Zn only
		22LΦ599-Φ1	↓	↓	Cu only
		22LΦ598-Φ1	↓	↓	Cr only
		BLAΦ234-DUP2	↓	↓	↓
		-MS2	↓	↓	↓
		23AΦΦ11-Φ1	SWN	20	
		BLAΦ156-DUP1	↓	↓	
		-MS1	↓	↓	
		-MSD1	↓	↓	

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 1/12/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBL9			
		-CCVC			Ag sl. noisy - Value OK
		-CCBC			Sc, In sl. noisy - %R of Analytes OK
		22LΦ649-Φ1	REN		Ge↓ Pb only
	✓	22LΦ65Φ-Φ1			Sc, Ge, In^{-1}, In, Tb↓/Zn↑ (Salty!)
	✓	22LΦ651-Φ1			
		22LΦ653-Φ1			
		22LΦ655-Φ1		5	
		22LΦ656-Φ1			
		22LΦ66Φ-Φ3			
		-Φ5		2	
		23AΦΦ11-Φ2	SWN	20	
		SEQ-IBLA			(Cr^{53}↑)
		-CCVD			Cu↑/Ge sl. noisy As sl. noisy
		-CCBD			Ge↓/Cr^{53}↑
	✓	23AΦΦ11-Φ3	SWN	20	↓
		-Φ4			
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		-Φ9			
		-1Φ			
		-11			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 1/12/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBLB			(Cr^{53} ↑ / Sc, Tb sl. noisy)
		-CCVE			Cu^{63} ↑
		-CCBE			Ge↓ / Cr^{53} ↑
	✓	23AΦΦ11-12	SWN	20	
		-13			Ge↓
		-14			Ge sl. noisy
		-15			
		-16			
		-17			
		-18			
		-19			
		-2Φ			
		SEQ-IBLC			
		-CCVF			Cu^{63} ↑ / Ge sl. noisy / Zn^{67} sl. noisy
		-CCBF			Ge↓
		Rinse/DI			
			MB	1/12/23	

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, January 12, 2023 13:29:15
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4937
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	10029.7	10029.654	152.363	1.5	Standard
	In	114.9	67914.8	67914.794	571.230	0.8	Standard
	U	238.1	56679.5	56679.485	209.441	0.4	Standard
⌈	CeO	155.9	1090.6	0.017	0.001	3.8	Standard
| >	Ce	139.9	64240.5	64240.521	447.105	0.7	Standard
⌊	Ce++	70.0	1636.3	0.025	0.001	2.6	Standard
	Bkgd	220.0	0.1	0.067	0.091	136.9	Standard

Current Conditions File Data

Current Value	Description
1.04	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1637.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.04	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:29:07 PM
End Time: 1/12/2023 1:39:52 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 10029.65
Obtained Intensity (In 115): 67914.79
Obtained Intensity (U 238): 56679.49
Obtained Intensity (Bkgd 220): 0.07
Obtained Formula (Ce++ 70 / Ce 140): 0.025 (=1636.29 / 64240.52)
Obtained Formula (CeO 156 / Ce 140): 0.017 (=1090.58 / 64240.52)
Obtained RSD (Be 9): 0.0152
Obtained RSD (In 115): 0.0084
Obtained RSD (U 238): 0.0037

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.13 mm	-0.48 mm	68683.71

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.04
Obtained Intensity (In 115): 66953.53
Obtained Formula (CeO 156 / Ce 140): 0.0214 (=1325.06 / 62034.40)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.711)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.718)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.971; Intercept = -12.04

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.999; Intercept = -12.96

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:29:07 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 1
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 10029.65
		Obtained Intensity (In 115): 67914.79
		Obtained Intensity (U 238): 56679.49
		Obtained Intensity (Bkgd 220): 0.07
		Obtained Formula (Ce++ 70 / Ce 140): 0.025 (=1636.29 / 64240.52)
		Obtained Formula (CeO 156 / Ce 140): 0.017 (=1090.58 / 64240.52)
		Obtained RSD (Be 9): 0.0152
		Obtained RSD (In 115): 0.0084
		Obtained RSD (U 238): 0.0037

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.13 mm	-0.48 mm	68683.71

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 1/1.1/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 66953.53
		Obtained Formula (CeO 156 / Ce 140): 0.0214 (=1325.06 / 62034.40)
[Passed] Optimum value(s): 1.04

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.711)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.718)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.971; Intercept = -12.04

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-12.5	44541.3
Mg	24	41	-12.5	43269.4
In	115	41	-10.5	70079.5
Ce	140	41	-8	67262
Pb	208	41	-7	32885.8
U	238	41	-7	59620.2

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.999; Intercept = -12.96

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	32104
Mg	24	41	-13	25891.4
In	115	41	-9.5	45091
Ce	140	41	-8.5	50798.2
Pb	208	41	-6.5	25486.7
U	238	41	-7	40798.2

End Time: 1/12/2023 1:39:52 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:39:58 PM
End Time: 1/12/2023 1:41:04 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.990; Intercept = -12.64

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:39:58 PM

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.990; Intercept = -12.64

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	45103.1
Mg	24	41	-13	41540.3
In	115	41	-10	68130.1
Ce	140	41	-8	64272.3
Pb	208	41	-7	34810.4
U	238	41	-7	60403.4

End Time: 1/12/2023 1:41:04 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, January 12, 2023 13:41:30
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4944
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	10265.9	10265.889	220.644	2.1	Standard
	In	114.9	70299.7	70299.659	1278.193	1.8	Standard
	U	238.1	59821.7	59821.731	506.916	0.8	Standard
⌈	CeO	155.9	1201.4	0.018	0.000	1.6	Standard
| >	Ce	139.9	66719.9	66719.871	1041.898	1.6	Standard
⌊	Ce++	70.0	1704.8	0.026	0.001	3.1	Standard
	Bkgd	220.0	0.0	0.000	0.000		Standard

Current Conditions File Data

Current Value	Description
1.04	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1637.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.04	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 1/12/2023 1:41:29 PM
End Time: 1/12/2023 1:43:34 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 10265.89
Obtained Intensity (In 115): 70299.66
Obtained Intensity (U 238): 59821.73
Obtained Intensity (Bkgd 220): 0.00
Obtained Formula (Ce++ 70 / Ce 140): 0.026 (=1704.77 / 66719.87)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1201.38 / 66719.87)
Obtained RSD (Be 9): 0.0215
Obtained RSD (In 115): 0.0182
Obtained RSD (U 238): 0.0085

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 1/12/2023 1:41:29 PM

STD Performance Check
    Optimization Settings:
        Method: STD Performance Check.mth.
        Intensity Criterion: Be 9 > 2000
        Intensity Criterion: In 115 > 40000
        Intensity Criterion: U 238 > 30000
        Intensity Criterion: Bkgd 220 <= 1
        Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
        Formula Criterion: CeO 156 / Ce 140 <= 0.025
        RSD Criterion: Be 9.0122 < 0.05
        RSD Criterion: In 114.904 < 0.05
        RSD Criterion: U 238.05 < 0.05

    Optimization Results:
    Initial Try
        Obtained Intensity (Be 9): 10265.89
        Obtained Intensity (In 115): 70299.66
        Obtained Intensity (U 238): 59821.73
        Obtained Intensity (Bkgd 220): 0.00
        Obtained Formula (Ce++ 70 / Ce 140): 0.026 (=1704.77 / 66719.87)
        Obtained Formula (CeO 156 / Ce 140): 0.018 (=1201.38 / 66719.87)
        Obtained RSD (Be 9): 0.0215
        Obtained RSD (In 115): 0.0182
        Obtained RSD (U 238): 0.0085

[Passed] Optimum value(s): N/A

End Time: 1/12/2023 1:43:34 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:38:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L				766222	1	Standard
⌊	**Be**	**9**		ug/L				7	86	Standard
	C	**13**		ug/L				36839	2	Standard
	Cl	**37**		ug/L				4390964	0	Standard
⌈>	**Sc**	**45**		ug/L				538647	2	Standard
⌈	**Cr**	**52**		ug/L				15443	1	Standard
⌊	**Cr**	**53**		ug/L				178	9	Standard
⌈>	**Ge**	**72**		ug/L				26915	2	KED
⌈	**Ni**	**60**		ug/L				40	32	KED
⌈	**Ni**	**62**		ug/L				6	31	KED
⌈	**Cu**	**63**		ug/L				46	45	KED
⌈	**Cu**	**65**		ug/L				30	32	KED
⌈	**Zn**	**66**		ug/L				35	25	KED
⌈	**Zn**	**67**		ug/L				6	41	KED
⌈	**As**	**75**		ug/L				7	6	KED
⌊	**Se**	**78**		ug/L				14	13	KED
	Y	**89**		ug/L				287925	2	Standard
	Kr	**83**		ug/L				53	18	Standard
⌈>	**In-1**	**115**		ug/L				7687	1	KED
⌈	**Cd**	**111**		ug/L				4	13	KED
⌊	**Cd**	**114**		ug/L				7	53	KED
⌈>	**In**	**115**		ug/L				427037	1	Standard
⌈	**Ag**	**107**		ug/L				100	9	Standard
⌈	**Ba**	**135**		ug/L				78	14	Standard
⌊	**Ba**	**137**		ug/L				142	3	Standard
⌈>	**Tb**	**159**		ug/L				675781	1	Standard
⌊	**Pb**	**208**		ug/L				179	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:43:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	749267	1	Standard
⌊	**Be**	**9**	**0.200**	ug/L	0.011	5	7	1612	6	Standard
	C	**13**		ug/L			36839	43986	2	Standard
	Cl	**37**		ug/L			4390964	4242289	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	530824	2	Standard
⌈	**Cr**	**52**	**0.500**	ug/L	0.005	0	15443	25265	3	Standard
⌊	**Cr**	**53**	**0.500**	ug/L	0.015	2	178	1291	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	27192	0	KED
⌈	**Ni**	**60**	**0.500**	ug/L	0.011	2	40	610	2	KED
⌈	**Ni**	**62**	**0.500**	ug/L	0.048	9	6	102	9	KED
⌈	**Cu**	**63**	**0.500**	ug/L	0.035	6	46	1698	6	KED
⌈	**Cu**	**65**	**0.500**	ug/L	0.029	5	30	777	5	KED
⌈	**Zn**	**66**	**6.000**	ug/L	0.212	3	35	2756	3	KED
⌈	**Zn**	**67**	**6.000**	ug/L	0.177	2	6	375	2	KED
⌈	**As**	**75**	**0.200**	ug/L	0.043	21	7	49	18	KED
⌊	**Se**	**78**	**0.500**	ug/L	0.285	56	14	26	25	KED
	Y	**89**		ug/L			287925	280451	3	Standard
	Kr	**83**		ug/L			53	62	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7828	1	KED
⌈	**Cd**	**111**	**0.100**	ug/L	0.011	10	4	26	7	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.018	17	7	53	16	KED
⌈>	**In**	**115**		ug/L			427037	408494	3	Standard
⌈	**Ag**	**107**	**0.200**	ug/L	0.005	2	100	3027	1	Standard
⌈	**Ba**	**135**	**0.500**	ug/L	0.020	3	78	1998	3	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.013	2	142	3333	5	Standard
⌈>	**Tb**	**159**		ug/L			675781	674031	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.003	2	179	5101	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:47:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	726427	3	Standard
⌊	**Be**	**9**	**10.000**	ug/L	0.253	2	7	76651	5	Standard
	C	**13**		ug/L			36839	51352	1	Standard
	Cl	**37**		ug/L			4390964	4190483	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	532341	4	Standard
⌈	**Cr**	**52**	**9.999**	ug/L	0.187	1	15443	206546	3	Standard
⌊	**Cr**	**53**	**10.000**	ug/L	0.218	2	178	22267	5	Standard
⌈>	**Ge**	**72**		ug/L			26915	28378	0	KED
⌈	**Ni**	**60**	**9.998**	ug/L	0.097	0	40	11085	0	KED
⌊	**Ni**	**62**	**9.998**	ug/L	0.084	0	6	1840	1	KED
⌈	**Cu**	**63**	**9.999**	ug/L	0.309	3	46	32912	3	KED
⌊	**Cu**	**65**	**10.001**	ug/L	0.168	1	30	16195	2	KED
⌈	**Zn**	**66**	**9.900**	ug/L	0.160	1	35	4595	2	KED
⌊	**Zn**	**67**	**10.332**	ug/L	0.567	5	6	736	6	KED
⌈	**As**	**75**	**10.000**	ug/L	0.255	2	7	2168	1	KED
⌊	**Se**	**78**	**10.000**	ug/L	0.425	4	14	259	4	KED
	Y	**89**		ug/L			287925	276328	4	Standard
	Kr	**83**		ug/L			53	50	29	Standard
⌈>	**In-1**	**115**		ug/L			7687	8004	1	KED
⌈	**Cd**	**111**	**10.000**	ug/L	0.474	4	4	2540	3	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.555	5	7	6059	4	KED
⌈>	**In**	**115**		ug/L			427037	416644	4	Standard
⌈	**Ag**	**107**	**10.000**	ug/L	0.400	4	100	144529	3	Standard
⌈	**Ba**	**135**	**9.999**	ug/L	0.286	2	78	37533	2	Standard
⌊	**Ba**	**137**	**10.000**	ug/L	0.174	1	142	65461	3	Standard
⌈>	**Tb**	**159**		ug/L			675781	673759	2	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.088	0	179	469128	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:52:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	731224	2	Standard
⌊	**Be**	**9**	**19.828**	ug/L	0.413	2	7	147874	4	Standard
	C	**13**		ug/L			36839	50965	1	Standard
	Cl	**37**		ug/L			4390964	4351704	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	532438	4	Standard
⌈	**Cr**	**52**	**19.904**	ug/L	0.578	2	15443	388864	2	Standard
⌊	**Cr**	**53**	**19.938**	ug/L	0.316	1	178	43675	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	27720	2	KED
⌈	**Ni**	**60**	**19.997**	ug/L	0.505	2	40	21599	1	KED
⌈	**Ni**	**62**	**19.909**	ug/L	0.247	1	6	3509	1	KED
⌈	**Cu**	**63**	**20.014**	ug/L	0.556	2	46	64461	1	KED
⌈	**Cu**	**65**	**20.022**	ug/L	0.111	0	30	31775	2	KED
⌈	**Zn**	**66**	**19.955**	ug/L	1.073	5	35	8944	3	KED
⌈	**Zn**	**67**	**20.129**	ug/L	1.214	6	6	1420	4	KED
⌈	**As**	**75**	**20.009**	ug/L	0.388	1	7	4238	0	KED
⌊	**Se**	**78**	**19.846**	ug/L	1.116	5	14	473	5	KED
	Y	**89**		ug/L			287925	278139	2	Standard
	Kr	**83**		ug/L			53	61	6	Standard
⌈>	**In-1**	**115**		ug/L			7687	7809	2	KED
⌈	**Cd**	**111**	**20.065**	ug/L	0.750	3	4	5034	1	KED
⌊	**Cd**	**114**	**20.075**	ug/L	0.723	3	7	12040	1	KED
⌈>	**In**	**115**		ug/L			427037	417883	3	Standard
⌈	**Ag**	**107**	**20.000**	ug/L	0.234	1	100	290050	3	Standard
⌈	**Ba**	**135**	**19.967**	ug/L	0.193	0	78	74637	2	Standard
⌊	**Ba**	**137**	**20.008**	ug/L	0.261	1	142	131442	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	675064	3	Standard
⌊	**Pb**	**208**	**19.889**	ug/L	0.555	2	179	913755	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 15:58:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	729892	0	Standard
⌊	**Be**	**9**	**49.807**	ug/L	1.480	2	7	363595	2	Standard
	C	**13**		ug/L			36839	36503	3	Standard
	Cl	**37**		ug/L			4390964	4508448	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	518676	0	Standard
⌈	**Cr**	**52**	**50.024**	ug/L	0.139	0	15443	932387	0	Standard
⌊	**Cr**	**53**	**50.171**	ug/L	0.545	1	178	108701	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26921	0	KED
⌈	**Ni**	**60**	**50.007**	ug/L	1.069	2	40	52448	2	KED
⌈	**Ni**	**62**	**49.996**	ug/L	1.299	2	6	8545	2	KED
⌈	**Cu**	**63**	**49.727**	ug/L	0.842	1	46	151403	1	KED
⌈	**Cu**	**65**	**49.896**	ug/L	1.306	2	30	76068	2	KED
⌈	**Zn**	**66**	**49.471**	ug/L	0.458	0	35	20489	1	KED
⌈	**Zn**	**67**	**50.214**	ug/L	1.966	3	6	3502	3	KED
⌈	**As**	**75**	**49.986**	ug/L	0.365	0	7	10261	0	KED
⌊	**Se**	**78**	**49.769**	ug/L	1.081	2	14	1107	1	KED
	Y	**89**		ug/L			287925	278053	2	Standard
	Kr	**83**		ug/L			53	71	13	Standard
⌈>	**In-1**	**115**		ug/L			7687	7760	1	KED
⌈	**Cd**	**111**	**49.820**	ug/L	0.448	0	4	12202	1	KED
⌊	**Cd**	**114**	**50.128**	ug/L	0.558	1	7	30266	0	KED
⌈>	**In**	**115**		ug/L			427037	411040	2	Standard
⌈	**Ag**	**107**	**49.673**	ug/L	1.849	3	100	685761	2	Standard
⌈	**Ba**	**135**	**49.992**	ug/L	0.277	0	78	183585	1	Standard
⌊	**Ba**	**137**	**49.997**	ug/L	1.127	2	142	322732	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	668197	0	Standard
⌊	**Pb**	**208**	**49.923**	ug/L	0.474	0	179	2254160	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:04:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	713212	5	Standard
⌊	**Be**	**9**	**100.604**	ug/L	4.435	4	7	731261	2	Standard
	C	**13**		ug/L			36839	48732	0	Standard
	Cl	**37**		ug/L			4390964	4602583	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	515531	4	Standard
⌈	**Cr**	**52**	**100.414**	ug/L	1.880	1	15443	1870008	2	Standard
⌊	**Cr**	**53**	**100.284**	ug/L	1.948	1	178	217722	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	26421	5	KED
⌈	**Ni**	**60**	**100.292**	ug/L	0.781	0	40	104183	4	KED
⌈	**Ni**	**62**	**99.672**	ug/L	1.206	1	6	16539	6	KED
⌈	**Cu**	**63**	**100.022**	ug/L	0.630	0	46	299031	4	KED
⌈	**Cu**	**65**	**99.987**	ug/L	1.502	1	30	149502	4	KED
⌈	**Zn**	**66**	**99.769**	ug/L	0.432	0	35	40215	5	KED
⌈	**Zn**	**67**	**99.939**	ug/L	0.753	0	6	6821	5	KED
⌈	**As**	**75**	**100.343**	ug/L	0.670	0	7	20441	4	KED
⌊	**Se**	**78**	**100.816**	ug/L	2.914	2	14	2247	4	KED
	Y	**89**		ug/L			287925	275194	5	Standard
	Kr	**83**		ug/L			53	104	4	Standard
⌈>	**In-1**	**115**		ug/L			7687	7735	1	KED
⌈	**Cd**	**111**	**99.727**	ug/L	2.090	2	4	24127	3	KED
⌊	**Cd**	**114**	**99.307**	ug/L	1.276	1	7	58421	2	KED
⌈>	**In**	**115**		ug/L			427037	407347	3	Standard
⌈	**Ag**	**107**	**100.118**	ug/L	1.666	1	100	1375217	2	Standard
⌈	**Ba**	**135**	**100.456**	ug/L	1.112	1	78	371077	2	Standard
⌊	**Ba**	**137**	**100.613**	ug/L	1.898	1	142	656815	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	671322	4	Standard
⌊	**Pb**	**208**	**99.871**	ug/L	2.608	2	179	4507633	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:12:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	736268	0	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	63	7	20	41	Standard
	C	**13**		ug/L			36839	35959	2	Standard
	Cl	**37**		ug/L			4390964	4365430	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	533734	1	Standard
⌈	**Cr**	**52**	**0.003**	ug/L	0.027	835	15443	15359	1	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.008	92	178	158	11	Standard
⌈>	**Ge**	**72**		ug/L			26915	26679	2	KED
⌈	**Ni**	**60**	**0.003**	ug/L	0.012	383	40	43	31	KED
⌈	**Ni**	**62**	**0.023**	ug/L	0.016	70	6	10	26	KED
⌈	**Cu**	**63**	**-0.007**	ug/L	0.001	16	46	26	14	KED
⌈	**Cu**	**65**	**-0.011**	ug/L	0.001	5	30	13	7	KED
⌈	**Zn**	**66**	**-0.029**	ug/L	0.003	9	35	23	4	KED
⌈	**Zn**	**67**	**-0.072**	ug/L	0.029	39	6	1	100	KED
⌈	**As**	**75**	**0.006**	ug/L	0.001	15	7	8	3	KED
⌊	**Se**	**78**	**0.009**	ug/L	0.100	1163	14	14	16	KED
	Y	**89**		ug/L			287925	279770	0	Standard
	Kr	**83**		ug/L			53	62	26	Standard
⌈>	**In-1**	**115**		ug/L			7687	7380	1	KED
⌈	**Cd**	**111**	**0.005**	ug/L	0.003	54	4	5	10	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.007	106	7	3	100	KED
⌈>	**In**	**115**		ug/L			427037	428595	0	Standard
⌈	**Ag**	**107**	**0.006**	ug/L	0.001	19	100	191	8	Standard
⌈	**Ba**	**135**	**-0.014**	ug/L	0.001	8	78	22	19	Standard
⌊	**Ba**	**137**	**-0.015**	ug/L	0.001	9	142	39	24	Standard
⌈>	**Tb**	**159**		ug/L			675781	676243	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	202	179	183	3	Standard

Sample Information

Sample Date/Time: Thursday, January 12, 2023 16:04:52
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	**0.9999**	0.010	0.20	10	20	50	100
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.036	0.50	10	20	50	100
Cr	53	**1.0000**	0.004	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.039	0.50	10	20	50	100
Ni	62	**1.0000**	0.006	0.50	10	20	50	100
Cu	63	**1.0000**	0.113	0.50	10	20	50	100
Cu	65	**1.0000**	0.057	0.50	10	20	50	100
Zn	66	**0.9999**	0.015	6.00	10	20	50	100
Zn	67	**1.0000**	0.003	6.00	10	20	50	100
As	75	**1.0000**	0.008	0.20	10	20	50	100
Se	78	**0.9999**	0.001	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.031	0.10	10	20	50	100
Cd	114	**0.9999**	0.076	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.034	0.20	10	20	50	100
Ba	135	**1.0000**	0.009	0.50	10	20	50	100
Ba	137	**0.9999**	0.016	0.50	10	20	50	100
Tb	159							
Pb	208	**1.0000**	0.067	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:22:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	723248	2	Standard
⎣	**Be**	**9**	**48.744**	ug/L	1.978	4	7	359631	2	Standard
	C	**13**		ug/L			36839	45004	1	Standard
	Cl	**37**		ug/L			4390964	4607556	0	Standard
⎡>	**Sc**	**45**		ug/L			538647	540750	0	Standard
⎢	**Cr**	**52**	**48.230**	ug/L	0.312	0	15443	950640	0	Standard
⎣	**Cr**	**53**	**47.767**	ug/L	0.486	1	178	108928	0	Standard
⎡>	**Ge**	**72**		ug/L			26915	27213	1	KED
⎢	**Ni**	**60**	**50.194**	ug/L	0.501	0	40	53741	2	KED
⎢	**Ni**	**62**	**51.001**	ug/L	0.978	1	6	8717	3	KED
⎢	**Cu**	**63**	**51.067**	ug/L	1.952	3	46	157351	5	KED
⎢	**Cu**	**65**	**49.922**	ug/L	0.218	0	30	76904	1	KED
⎢	**Zn**	**66**	**49.356**	ug/L	1.404	2	35	20511	4	KED
⎢	**Zn**	**67**	**49.227**	ug/L	1.067	2	6	3464	3	KED
⎢	**As**	**75**	**46.819**	ug/L	1.219	2	7	9830	3	KED
⎣	**Se**	**78**	**75.627**	ug/L	1.604	2	14	1741	3	KED
	Y	**89**		ug/L			287925	286645	1	Standard
	Kr	**83**		ug/L			53	67	20	Standard
⎡>	**In-1**	**115**		ug/L			7687	7769	3	KED
⎢	**Cd**	**111**	**48.479**	ug/L	1.614	3	4	11772	0	KED
⎣	**Cd**	**114**	**49.075**	ug/L	1.551	3	7	28980	1	KED
⎡>	**In**	**115**		ug/L			427037	414887	2	Standard
⎢	**Ag**	**107**	**51.614**	ug/L	1.838	3	100	722029	1	Standard
⎢	**Ba**	**135**	**49.986**	ug/L	0.973	1	78	188105	1	Standard
⎣	**Ba**	**137**	**49.370**	ug/L	0.827	1	142	328400	0	Standard
⎡>	**Tb**	**159**		ug/L			675781	683207	1	Standard
⎣	**Pb**	**208**	**49.679**	ug/L	0.774	1	179	2283329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:29:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	737243	4	Standard
⎣	**Be**	**9**	**0.001**	ug/L	0.001	131	7	13	57	Standard
	C	**13**		ug/L			36839	36247	4	Standard
	Cl	**37**		ug/L			4390964	4218819	3	Standard
⎡>	**Sc**	**45**		ug/L			538647	530596	3	Standard
⎢	**Cr**	**52**	**-0.015**	ug/L	0.019	123	15443	14922	4	Standard
⎣	**Cr**	**53**	**-0.011**	ug/L	0.007	59	178	150	8	Standard
⎡>	**Ge**	**72**		ug/L			26915	27228	1	KED
⎢	**Ni**	**60**	**-0.005**	ug/L	0.004	85	40	36	10	KED
⎢	**Ni**	**62**	**0.022**	ug/L	0.027	126	6	10	44	KED
⎢	**Cu**	**63**	**-0.003**	ug/L	0.003	78	46	36	20	KED
⎢	**Cu**	**65**	**-0.010**	ug/L	0.006	57	30	15	57	KED
⎢	**Zn**	**66**	**-0.041**	ug/L	0.012	28	35	19	26	KED
⎢	**Zn**	**67**	**-0.064**	ug/L	0.016	25	6	2	43	KED
⎢	**As**	**75**	**-0.003**	ug/L	0.011	411	7	6	37	KED
⎣	**Se**	**78**	**0.195**	ug/L	0.148	75	14	19	19	KED
	Y	**89**		ug/L			287925	279472	4	Standard
	Kr	**83**		ug/L			53	49	19	Standard
⎡>	**In-1**	**115**		ug/L			7687	7526	4	KED
⎢	**Cd**	**111**	**0.006**	ug/L	0.008	141	4	5	36	KED
⎣	**Cd**	**114**	**-0.007**	ug/L	0.002	29	7	3	39	KED
⎡>	**In**	**115**		ug/L			427037	421908	2	Standard
⎢	**Ag**	**107**	**0.002**	ug/L	0.002	96	100	129	22	Standard
⎢	**Ba**	**135**	**-0.016**	ug/L	0.001	3	78	17	12	Standard
⎣	**Ba**	**137**	**-0.017**	ug/L	0.000	2	142	23	12	Standard
⎡>	**Tb**	**159**		ug/L			675781	677616	3	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.000	21	179	109	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:34:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	742923	5	Standard
⌊	**Be**	**9**	**50.327**	ug/L	2.569	5	7	381003	2	Standard
	C	**13**		ug/L			36839	37063	0	Standard
	Cl	**37**		ug/L			4390964	4719746	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	537726	2	Standard
⌈	**Cr**	**52**	**49.689**	ug/L	0.696	1	15443	973468	2	Standard
⌊	**Cr**	**53**	**48.975**	ug/L	0.844	1	178	111082	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	26820	0	KED
⌈	**Ni**	**60**	**49.906**	ug/L	1.030	2	40	52657	2	KED
⌊	**Ni**	**62**	**51.599**	ug/L	1.017	1	6	8691	2	KED
⌈	**Cu**	**63**	**50.685**	ug/L	0.550	1	46	153862	1	KED
⌊	**Cu**	**65**	**50.870**	ug/L	0.461	0	30	77231	0	KED
⌈	**Zn**	**66**	**51.051**	ug/L	0.549	1	35	20904	0	KED
⌊	**Zn**	**67**	**50.195**	ug/L	1.088	2	6	3481	2	KED
⌈	**As**	**75**	**50.369**	ug/L	0.256	0	7	10420	0	KED
⌊	**Se**	**78**	**50.272**	ug/L	1.706	3	14	1145	3	KED
	Y	**89**		ug/L			287925	283205	5	Standard
	Kr	**83**		ug/L			53	56	7	Standard
⌈>	**In-1**	**115**		ug/L			7687	7646	0	KED
⌈	**Cd**	**111**	**49.825**	ug/L	0.237	0	4	11915	0	KED
⌊	**Cd**	**114**	**50.089**	ug/L	1.191	2	7	29123	1	KED
⌈>	**In**	**115**		ug/L			427037	422832	2	Standard
⌈	**Ag**	**107**	**49.918**	ug/L	0.752	1	100	712071	3	Standard
⌈	**Ba**	**135**	**49.645**	ug/L	0.980	1	78	190412	1	Standard
⌊	**Ba**	**137**	**48.553**	ug/L	0.649	1	142	329209	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	690687	2	Standard
⌊	**Pb**	**208**	**49.577**	ug/L	1.142	2	179	2303180	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:41:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	722010	3	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	194	7	10	57	Standard
	C	**13**		ug/L			36839	36002	1	Standard
	Cl	**37**		ug/L			4390964	4269003	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	522125	2	Standard
⌈	**Cr**	**52**	**0.014**	ug/L	0.018	129	15443	15234	3	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.004	89	178	163	8	Standard
⌈>	**Ge**	**72**		ug/L			26915	26696	3	KED
⌈	**Ni**	**60**	**-0.004**	ug/L	0.018	501	40	36	46	KED
⌊	**Ni**	**62**	**0.008**	ug/L	0.017	211	6	8	35	KED
⌈	**Cu**	**63**	**-0.006**	ug/L	0.003	44	46	28	24	KED
⌊	**Cu**	**65**	**-0.010**	ug/L	0.004	36	30	15	33	KED
⌈	**Zn**	**66**	**-0.038**	ug/L	0.006	15	35	19	14	KED
⌊	**Zn**	**67**	**-0.053**	ug/L	0.060	113	6	3	124	KED
⌈	**As**	**75**	**0.004**	ug/L	0.006	148	7	7	18	KED
⌊	**Se**	**78**	**0.083**	ug/L	0.056	67	14	16	11	KED
	Y	**89**		ug/L			287925	276339	1	Standard
	Kr	**83**		ug/L			53	58	16	Standard
⌈>	**In-1**	**115**		ug/L			7687	7913	0	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.004	68	4	2	33	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.004	84	7	4	44	KED
⌈>	**In**	**115**		ug/L			427037	427221	1	Standard
⌈	**Ag**	**107**	**0.004**	ug/L	0.001	30	100	151	11	Standard
⌈	**Ba**	**135**	**-0.016**	ug/L	0.001	6	78	17	22	Standard
⌊	**Ba**	**137**	**-0.017**	ug/L	0.001	4	142	28	17	Standard
⌈>	**Tb**	**159**		ug/L			675781	680907	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	4	179	109	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:52:12

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			766222	656771	2	Standard
	Be	**9**	**0.326**	ug/L	0.168	51	7	2183	50	Standard
	C	**13**		ug/L			36839	38142	3	Standard
	Cl	**37**		ug/L			4390964	4104418	0	Standard
>	**Sc**	**45**		ug/L			538647	466133	2	Standard
	Cr	**52**	**0.608**	ug/L	0.139	22	15443	23564	12	Standard
	Cr	**53**	**0.571**	ug/L	0.133	23	178	1280	23	Standard
>	**Ge**	**72**		ug/L			26915	27287	1	KED
	Ni	**60**	**0.450**	ug/L	0.014	3	40	523	1	KED
	Ni	**62**	**0.482**	ug/L	0.093	19	6	89	16	KED
	Cu	**63**	**0.489**	ug/L	0.025	5	46	1558	4	KED
	Cu	**65**	**0.498**	ug/L	0.046	9	30	800	8	KED
	Zn	**66**	**6.214**	ug/L	0.168	2	35	2619	1	KED
	Zn	**67**	**5.322**	ug/L	0.495	9	6	381	7	KED
	As	**75**	**0.175**	ug/L	0.020	11	7	43	9	KED
	Se	**78**	**0.611**	ug/L	0.189	30	14	28	14	KED
	Y	**89**		ug/L			287925	253370	5	Standard
	Kr	**83**		ug/L			53	55	17	Standard
>	**In-1**	**115**		ug/L			7687	7742	3	KED
	Cd	**111**	**0.088**	ug/L	0.030	33	4	25	24	KED
	Cd	**114**	**0.102**	ug/L	0.013	12	7	67	13	KED
>	**In**	**115**		ug/L			427037	383929	5	Standard
	Ag	**107**	**0.317**	ug/L	0.190	59	100	4279	64	Standard
	Ba	**135**	**0.579**	ug/L	0.162	27	78	2104	32	Standard
	Ba	**137**	**0.581**	ug/L	0.175	30	142	3744	35	Standard
>	**Tb**	**159**		ug/L			675781	620663	1	Standard
	Pb	**208**	**0.213**	ug/L	0.194	90	179	9168	91	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 16:57:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	748071	2	Standard
⌊	**Be**	**9**	**0.211**	ug/L	0.013	6	7	1615	3	Standard
	C	**13**		ug/L			36839	40355	2	Standard
	Cl	**37**		ug/L			4390964	4193727	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	530437	0	Standard
⌈	**Cr**	**52**	**0.485**	ug/L	0.011	2	15443	24429	1	Standard
⌊	**Cr**	**53**	**0.477**	ug/L	0.017	3	178	1241	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	28066	0	KED
⌈	**Ni**	**60**	**0.469**	ug/L	0.025	5	40	559	4	KED
⌊	**Ni**	**62**	**0.514**	ug/L	0.060	11	6	97	10	KED
⌈	**Cu**	**63**	**0.504**	ug/L	0.030	5	46	1650	5	KED
⌊	**Cu**	**65**	**0.485**	ug/L	0.022	4	30	802	5	KED
⌈	**Zn**	**66**	**6.073**	ug/L	0.091	1	35	2635	1	KED
⌊	**Zn**	**67**	**5.280**	ug/L	0.630	11	6	389	12	KED
⌈	**As**	**75**	**0.197**	ug/L	0.027	13	7	50	10	KED
⌊	**Se**	**78**	**0.453**	ug/L	0.097	21	14	25	8	KED
	Y	**89**		ug/L			287925	278460	0	Standard
	Kr	**83**		ug/L			53	61	19	Standard
⌈>	**In-1**	**115**		ug/L			7687	8362	3	KED
⌈	**Cd**	**111**	**0.102**	ug/L	0.005	5	4	31	3	KED
⌊	**Cd**	**114**	**0.057**	ug/L	0.036	62	7	44	53	KED
⌈>	**In**	**115**		ug/L			427037	424954	0	Standard
⌈	**Ag**	**107**	**0.198**	ug/L	0.007	3	100	2940	3	Standard
⌈	**Ba**	**135**	**0.466**	ug/L	0.020	4	78	1872	4	Standard
⌊	**Ba**	**137**	**0.474**	ug/L	0.009	1	142	3369	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	677576	0	Standard
⌊	**Pb**	**208**	**0.101**	ug/L	0.004	4	179	4788	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:03:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	718001	4	Standard
[	**Be**	**9**	**0.007**	ug/L	0.001	7	7	60	8	Standard
	C	**13**		ug/L			36839	152416	2	Standard
	Cl	**37**		ug/L			4390964	11106228	0	Standard
[>	**Sc**	**45**		ug/L			538647	521469	2	Standard
[	**Cr**	**52**	**0.855**	ug/L	0.065	7	15443	30933	4	Standard
[	**Cr**	**53**	**5.173**	ug/L	0.093	1	178	11529	2	Standard
[>	**Ge**	**72**		ug/L			26915	25636	0	KED
[	**Ni**	**60**	**0.080**	ug/L	0.021	25	40	119	17	KED
[	**Ni**	**62**	**0.172**	ug/L	0.037	21	6	34	16	KED
[	**Cu**	**63**	**0.030**	ug/L	0.003	9	46	132	5	KED
[	**Cu**	**65**	**0.021**	ug/L	0.005	22	30	59	11	KED
[	**Zn**	**66**	**0.164**	ug/L	0.054	32	35	97	20	KED
[	**Zn**	**67**	**0.274**	ug/L	0.133	48	6	24	35	KED
[	**As**	**75**	**0.042**	ug/L	0.016	37	7	15	20	KED
[	**Se**	**78**	**0.001**	ug/L	0.165	13622	14	13	26	KED
	Y	**89**		ug/L			287925	271550	4	Standard
	Kr	**83**		ug/L			53	155	11	Standard
[>	**In-1**	**115**		ug/L			7687	7385	0	KED
[	**Cd**	**111**	**0.072**	ug/L	0.017	23	4	20	18	KED
[	**Cd**	**114**	**0.051**	ug/L	0.010	18	7	35	14	KED
[>	**In**	**115**		ug/L			427037	402111	1	Standard
[	**Ag**	**107**	**0.002**	ug/L	0.000	17	100	128	4	Standard
[	**Ba**	**135**	**0.107**	ug/L	0.007	6	78	464	4	Standard
[	**Ba**	**137**	**0.097**	ug/L	0.006	5	142	760	5	Standard
[>	**Tb**	**159**		ug/L			675781	666208	0	Standard
[	**Pb**	**208**	**0.039**	ug/L	0.002	4	179	1920	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:08:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	754940	4	Standard
⌊	**Be**	**9**	**0.009**	ug/L	0.002	25	7	74	20	Standard
	C	**13**		ug/L			36839	155346	3	Standard
	Cl	**37**		ug/L			4390964	11279472	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	546424	1	Standard
⌈	**Cr**	**52**	**20.114**	ug/L	0.159	0	15443	409774	2	Standard
⌊	**Cr**	**53**	**23.800**	ug/L	0.457	1	178	54939	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	25178	0	KED
⌈	**Ni**	**60**	**19.801**	ug/L	0.696	3	40	19633	3	KED
⌈	**Ni**	**62**	**20.389**	ug/L	0.581	2	6	3227	2	KED
⌈	**Cu**	**63**	**20.045**	ug/L	0.196	0	46	57147	0	KED
⌈	**Cu**	**65**	**19.809**	ug/L	0.285	1	30	28248	0	KED
⌈	**Zn**	**66**	**18.638**	ug/L	0.539	2	35	7185	2	KED
⌈	**Zn**	**67**	**16.366**	ug/L	0.703	4	6	1069	4	KED
⌈	**As**	**75**	**19.371**	ug/L	0.266	1	7	3766	0	KED
⌊	**Se**	**78**	**0.174**	ug/L	0.213	122	14	17	26	KED
	Y	**89**		ug/L			287925	283023	1	Standard
	Kr	**83**		ug/L			53	151	6	Standard
⌈>	**In-1**	**115**		ug/L			7687	7179	1	KED
⌈	**Cd**	**111**	**19.129**	ug/L	0.542	2	4	4296	2	KED
⌊	**Cd**	**114**	**19.523**	ug/L	0.409	2	7	10661	0	KED
⌈>	**In**	**115**		ug/L			427037	416515	2	Standard
⌈	**Ag**	**107**	**17.960**	ug/L	0.364	2	100	252344	0	Standard
⌈	**Ba**	**135**	**0.163**	ug/L	0.016	9	78	692	7	Standard
⌊	**Ba**	**137**	**0.156**	ug/L	0.004	2	142	1181	3	Standard
⌈>	**Tb**	**159**		ug/L			675781	680350	0	Standard
⌊	**Pb**	**208**	**0.030**	ug/L	0.001	3	179	1565	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:12:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	736104	3	Standard
⌊	**Be**	**9**	**192.473**	ug/L	12.052	6	7	1444090	3	Standard
	C	**13**		ug/L			36839	45357	2	Standard
	Cl	**37**		ug/L			4390964	4758617	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	533601	2	Standard
⌈	**Cr**	**52**	**186.142**	ug/L	2.925	1	15443	3575992	1	Standard
⌊	**Cr**	**53**	**190.179**	ug/L	4.221	2	178	427444	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	25750	2	KED
⌈	**Ni**	**60**	**195.673**	ug/L	4.904	2	40	198121	4	KED
⌊	**Ni**	**62**	**198.567**	ug/L	6.951	3	6	32073	1	KED
⌈	**Cu**	**63**	**194.450**	ug/L	2.158	1	46	566486	1	KED
⌊	**Cu**	**65**	**192.066**	ug/L	5.620	2	30	279761	1	KED
⌈	**Zn**	**66**	**191.901**	ug/L	1.364	0	35	75350	2	KED
⌊	**Zn**	**67**	**184.222**	ug/L	4.506	2	6	12242	0	KED
⌈	**As**	**75**	**194.717**	ug/L	4.923	2	7	38643	1	KED
⌊	**Se**	**78**	**192.348**	ug/L	5.594	2	14	4165	0	KED
	Y	**89**		ug/L			287925	279563	1	Standard
	Kr	**83**		ug/L			53	152	2	Standard
⌈>	**In-1**	**115**		ug/L			7687	7432	2	KED
⌈	**Cd**	**111**	**190.949**	ug/L	3.911	2	4	44366	0	KED
⌊	**Cd**	**114**	**191.473**	ug/L	3.725	1	7	108186	0	KED
⌈>	**In**	**115**		ug/L			427037	399005	0	Standard
⌈	**Ag**	**107**	**187.804**	ug/L	7.054	3	100	2527569	3	Standard
⌈	**Ba**	**135**	**198.567**	ug/L	2.621	1	78	718620	1	Standard
⌊	**Ba**	**137**	**196.219**	ug/L	4.618	2	142	1255189	2	Standard
⌈>	**Tb**	**159**		ug/L			675781	668490	1	Standard
⌊	**Pb**	**208**	**191.380**	ug/L	2.134	1	179	8607461	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:17:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			766222	652161	2	Standard
	Be	**9**	**280.443**	ug/L	10.612	3	7	1865952	1	Standard
	C	**13**		ug/L			36839	42926	4	Standard
	Cl	**37**		ug/L			4390964	4485595	1	Standard
>	**Sc**	**45**		ug/L			538647	483774	0	Standard
	Cr	**52**	**271.705**	ug/L	1.900	0	15443	4726941	0	Standard
	Cr	**53**	**281.441**	ug/L	4.455	1	178	573401	1	Standard
>	**Ge**	**72**		ug/L			26915	24482	1	KED
	Ni	**60**	**279.435**	ug/L	2.275	0	40	268943	0	KED
	Ni	**62**	**282.643**	ug/L	6.114	2	6	43418	0	KED
	Cu	**63**	**280.622**	ug/L	2.606	0	46	777463	2	KED
	Cu	**65**	**280.193**	ug/L	5.619	2	30	388162	2	KED
	Zn	**66**	**266.331**	ug/L	4.999	1	35	99398	0	KED
	Zn	**67**	**265.169**	ug/L	3.422	1	6	16759	1	KED
	As	**75**	**282.877**	ug/L	3.980	1	7	53394	2	KED
	Se	**78**	**274.011**	ug/L	2.250	0	14	5639	0	KED
	Y	**89**		ug/L			287925	251302	1	Standard
	Kr	**83**		ug/L			53	184	15	Standard
>	**In-1**	**115**		ug/L			7687	7051	2	KED
	Cd	**111**	**277.136**	ug/L	1.593	0	4	61096	1	KED
	Cd	**114**	**278.310**	ug/L	0.980	0	7	149213	2	KED
>	**In**	**115**		ug/L			427037	366036	1	Standard
	Ag	**107**	**277.920**	ug/L	8.281	2	100	3430580	1	Standard
	Ba	**135**	**297.845**	ug/L	10.648	3	78	988530	2	Standard
	Ba	**137**	**295.803**	ug/L	4.573	1	142	1735576	0	Standard
>	**Tb**	**159**		ug/L			675781	628981	0	Standard
	Pb	**208**	**278.405**	ug/L	4.639	1	179	11780280	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:24:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	747005	5	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	50	7	24	30	Standard
	C	**13**		ug/L			36839	38276	5	Standard
	Cl	**37**		ug/L			4390964	4316077	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	512347	1	Standard
⌈	**Cr**	**52**	**-0.002**	ug/L	0.024	1340	15443	14662	4	Standard
⌊	**Cr**	**53**	**0.048**	ug/L	0.004	8	178	273	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	27629	0	KED
⌈	**Ni**	**60**	**-0.009**	ug/L	0.002	22	40	31	6	KED
⌊	**Ni**	**62**	**-0.016**	ug/L	0.013	80	6	4	49	KED
⌈	**Cu**	**63**	**0.007**	ug/L	0.004	66	46	68	19	KED
⌊	**Cu**	**65**	**0.008**	ug/L	0.004	55	30	43	15	KED
⌈	**Zn**	**66**	**0.016**	ug/L	0.018	116	35	43	18	KED
⌊	**Zn**	**67**	**-0.029**	ug/L	0.040	137	6	5	57	KED
⌈	**As**	**75**	**0.012**	ug/L	0.010	79	7	10	21	KED
⌊	**Se**	**78**	**0.156**	ug/L	0.148	95	14	18	19	KED
	Y	**89**		ug/L			287925	269305	2	Standard
	Kr	**83**		ug/L			53	49	21	Standard
⌈>	**In-1**	**115**		ug/L			7687	7673	1	KED
⌈	**Cd**	**111**	**0.001**	ug/L	0.005	351	4	4	24	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.002	45	7	4	21	KED
⌈>	**In**	**115**		ug/L			427037	407833	3	Standard
⌈	**Ag**	**107**	**0.011**	ug/L	0.003	25	100	246	12	Standard
⌈	**Ba**	**135**	**-0.009**	ug/L	0.001	12	78	43	11	Standard
⌊	**Ba**	**137**	**-0.009**	ug/L	0.002	21	142	78	16	Standard
⌈>	**Tb**	**159**		ug/L			675781	659136	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	37	179	264	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:31:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	700762	4	Standard
⎣	**Be**	**9**	**50.701**	ug/L	1.876	3	7	362263	0	Standard
	C	**13**		ug/L			36839	36589	3	Standard
	Cl	**37**		ug/L			4390964	4502376	1	Standard
⎡>	**Sc**	**45**		ug/L			538647	509474	2	Standard
⎢	**Cr**	**52**	**49.500**	ug/L	1.246	2	15443	918861	3	Standard
⎣	**Cr**	**53**	**48.560**	ug/L	0.840	1	178	104311	0	Standard
⎡>	**Ge**	**72**		ug/L			26915	26935	3	KED
⎢	**Ni**	**60**	**48.822**	ug/L	0.450	0	40	51736	3	KED
⎢	**Ni**	**62**	**49.377**	ug/L	0.248	0	6	8352	2	KED
⎢	**Cu**	**63**	**49.488**	ug/L	0.643	1	46	150850	2	KED
⎢	**Cu**	**65**	**49.072**	ug/L	0.826	1	30	74799	1	KED
⎢	**Zn**	**66**	**49.918**	ug/L	0.531	1	35	20525	2	KED
⎢	**Zn**	**67**	**49.585**	ug/L	1.805	3	6	3456	6	KED
⎢	**As**	**75**	**49.253**	ug/L	0.678	1	7	10233	3	KED
⎣	**Se**	**78**	**50.539**	ug/L	1.047	2	14	1155	2	KED
	Y	**89**		ug/L			287925	269792	2	Standard
	Kr	**83**		ug/L			53	63	17	Standard
⎡>	**In-1**	**115**		ug/L			7687	7664	2	KED
⎢	**Cd**	**111**	**48.714**	ug/L	0.897	1	4	11675	0	KED
⎣	**Cd**	**114**	**49.761**	ug/L	1.328	2	7	28995	0	KED
⎡>	**In**	**115**		ug/L			427037	399414	1	Standard
⎢	**Ag**	**107**	**50.179**	ug/L	1.272	2	100	675919	1	Standard
⎢	**Ba**	**135**	**49.236**	ug/L	1.174	2	78	178368	0	Standard
⎣	**Ba**	**137**	**48.882**	ug/L	0.574	1	142	313060	0	Standard
⎡>	**Tb**	**159**		ug/L			675781	653942	2	Standard
⎣	**Pb**	**208**	**50.390**	ug/L	1.272	2	179	2216288	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:39:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	741448	5	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	39	7	19	22	Standard
	C	**13**		ug/L			36839	37172	4	Standard
	Cl	**37**		ug/L			4390964	4322135	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	522985	1	Standard
⌈	**Cr**	**52**	**-0.017**	ug/L	0.010	61	15443	14675	2	Standard
⌊	**Cr**	**53**	**0.024**	ug/L	0.010	39	178	227	8	Standard
⌈>	**Ge**	**72**		ug/L			26915	25564	1	KED
⌈	**Ni**	**60**	**0.088**	ug/L	0.030	33	40	126	22	KED
⌊	**Ni**	**62**	**0.062**	ug/L	0.025	40	6	16	24	KED
⌈	**Cu**	**63**	**-0.007**	ug/L	0.003	42	46	25	31	KED
⌊	**Cu**	**65**	**-0.007**	ug/L	0.003	40	30	18	23	KED
⌈	**Zn**	**66**	**-0.054**	ug/L	0.012	22	35	12	37	KED
⌊	**Zn**	**67**	**-0.043**	ug/L	0.001	1	6	3	0	KED
⌈	**As**	**75**	**0.013**	ug/L	0.006	46	7	9	11	KED
⌊	**Se**	**78**	**0.079**	ug/L	0.053	67	14	15	6	KED
	Y	**89**		ug/L			287925	272704	2	Standard
	Kr	**83**		ug/L			53	57	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7549	1	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.006	97	4	2	57	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.000	0	7	1	4	KED
⌈>	**In**	**115**		ug/L			427037	419302	2	Standard
⌈	**Ag**	**107**	**0.003**	ug/L	0.001	43	100	140	10	Standard
⌈	**Ba**	**135**	**-0.016**	ug/L	0.003	17	78	15	68	Standard
⌊	**Ba**	**137**	**-0.016**	ug/L	0.001	5	142	31	18	Standard
⌈>	**Tb**	**159**		ug/L			675781	663059	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	20	179	140	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:44:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	698385	3	Standard
	Be	9	0.002	ug/L	0.001	43	7	20	31	Standard
	C	13		ug/L			36839	46187	3	Standard
	Cl	37		ug/L			4390964	4126614	1	Standard
>	Sc	45		ug/L			538647	507665	0	Standard
	Cr	52	0.071	ug/L	0.012	17	15443	15841	0	Standard
	Cr	53	0.069	ug/L	0.004	5	178	315	3	Standard
>	Ge	72		ug/L			26915	27613	1	KED
	Ni	60	0.049	ug/L	0.007	13	40	95	8	KED
	Ni	62	0.051	ug/L	0.047	93	6	15	49	KED
	Cu	63	0.016	ug/L	0.009	54	46	97	26	KED
	Cu	65	0.017	ug/L	0.002	13	30	57	5	KED
	Zn	66	0.355	ug/L	0.085	24	35	186	20	KED
	Zn	67	0.327	ug/L	0.026	7	6	30	6	KED
	As	75	0.007	ug/L	0.007	112	7	8	19	KED
	Se	78	0.102	ug/L	0.208	205	14	17	28	KED
	Y	89		ug/L			287925	264276	1	Standard
	Kr	83		ug/L			53	50	10	Standard
>	In-1	115		ug/L			7687	7826	1	KED
	Cd	111	-0.013	ug/L	0.004	29	4	0	100	KED
	Cd	114	-0.009	ug/L	0.002	21	7	2	49	KED
>	In	115		ug/L			427037	402739	0	Standard
	Ag	107	0.001	ug/L	0.000	24	100	111	4	Standard
	Ba	135	0.003	ug/L	0.001	46	78	85	6	Standard
	Ba	137	0.001	ug/L	0.005	415	142	142	21	Standard
>	Tb	159		ug/L			675781	640887	1	Standard
	Pb	208	0.010	ug/L	0.001	11	179	596	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:49:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	756313	6	Standard
⌊	**Be**	**9**	**24.839**	ug/L	1.944	7	7	191133	1	Standard
	C	**13**		ug/L			36839	50372	2	Standard
	Cl	**37**		ug/L			4390964	4653719	3	Standard
⌈>	**Sc**	**45**		ug/L			538647	534856	2	Standard
⌈	**Cr**	**52**	**25.209**	ug/L	0.613	2	15443	498614	0	Standard
⌊	**Cr**	**53**	**25.103**	ug/L	0.517	2	178	56688	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	26441	3	KED
⌈	**Ni**	**60**	**25.543**	ug/L	0.553	2	40	26578	2	KED
⌊	**Ni**	**62**	**25.712**	ug/L	0.870	3	6	4274	5	KED
⌈	**Cu**	**63**	**25.658**	ug/L	0.488	1	46	76775	1	KED
⌊	**Cu**	**65**	**25.695**	ug/L	0.949	3	30	38448	2	KED
⌈	**Zn**	**66**	**83.015**	ug/L	2.524	3	35	33467	0	KED
⌊	**Zn**	**67**	**75.479**	ug/L	1.681	2	6	5154	1	KED
⌈	**As**	**75**	**25.364**	ug/L	0.448	1	7	5174	1	KED
⌊	**Se**	**78**	**79.972**	ug/L	1.092	1	14	1787	2	KED
	Y	**89**		ug/L			287925	281313	3	Standard
	Kr	**83**		ug/L			53	69	6	Standard
⌈>	**In-1**	**115**		ug/L			7687	7690	1	KED
⌈	**Cd**	**111**	**25.173**	ug/L	0.544	2	4	6056	1	KED
⌊	**Cd**	**114**	**25.601**	ug/L	0.534	2	7	14975	1	KED
⌈>	**In**	**115**		ug/L			427037	417015	0	Standard
⌈	**Ag**	**107**	**25.348**	ug/L	0.395	1	100	356619	1	Standard
⌈	**Ba**	**135**	**25.035**	ug/L	0.284	1	78	94755	1	Standard
⌊	**Ba**	**137**	**24.931**	ug/L	0.409	1	142	166790	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	680427	2	Standard
⌊	**Pb**	**208**	**25.262**	ug/L	0.634	2	179	1156205	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0190-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 17:55:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			766222	711999	5	Standard
[	Be	9	0.002	ug/L	0.001	52	7	20	32	Standard
	C	13		ug/L			36839	45262	4	Standard
	Cl	37		ug/L			4390964	7656947	0	Standard
[>	Sc	45		ug/L			538647	521033	4	Standard
[	Cr	52	114.804	ug/L	1.127	0	15443	2159254	3	Standard
[	Cr	53	117.686	ug/L	1.322	1	178	258324	4	Standard
[>	Ge	72		ug/L			26915	25518	0	KED
[	Ni	60	2.234	ug/L	0.069	3	40	2279	2	KED
[	Ni	62	2.492	ug/L	0.032	1	6	405	2	KED
[	Cu	63	9.237	ug/L	0.108	1	46	26715	0	KED
[	Cu	65	9.073	ug/L	0.240	2	30	13127	1	KED
[	Zn	66	39.651	ug/L	0.373	0	35	15455	0	KED
[	Zn	67	35.497	ug/L	0.696	1	6	2344	2	KED
[	As	75	0.127	ug/L	0.017	13	7	31	9	KED
[	Se	78	0.097	ug/L	0.090	92	14	15	11	KED
	Y	89		ug/L			287925	272874	4	Standard
	Kr	83		ug/L			53	81	25	Standard
[>	In-1	115		ug/L			7687	7486	3	KED
[	Cd	111	0.109	ug/L	0.005	4	4	29	5	KED
[	Cd	114	0.103	ug/L	0.003	3	7	65	4	KED
[>	In	115		ug/L			427037	392017	2	Standard
[	Ag	107	0.016	ug/L	0.007	44	100	302	27	Standard
[	Ba	135	2.518	ug/L	0.033	1	78	9023	1	Standard
[	Ba	137	2.482	ug/L	0.083	3	142	15719	1	Standard
[>	Tb	159		ug/L			675781	661703	4	Standard
[	Pb	208	0.245	ug/L	0.010	4	179	11059	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:01:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			766222	717874	4	Standard
	Be	**9**	**0.002**	ug/L	0.001	35	7	19	20	Standard
	C	**13**		ug/L			36839	42818	1	Standard
	Cl	**37**		ug/L			4390964	8140731	1	Standard
>	**Sc**	**45**		ug/L			538647	511276	1	Standard
	Cr	**52**	**1.833**	ug/L	0.018	0	15443	48269	1	Standard
	Cr	**53**	**6.371**	ug/L	0.141	2	178	13881	0	Standard
>	**Ge**	**72**		ug/L			26915	26563	1	KED
	Ni	**60**	**1.292**	ug/L	0.035	2	40	1389	3	KED
	Ni	**62**	**1.349**	ug/L	0.133	9	6	231	9	KED
	Cu	**63**	**0.742**	ug/L	0.011	1	46	2277	0	KED
	Cu	**65**	**0.729**	ug/L	0.029	4	30	1126	3	KED
	Zn	**66**	**62.328**	ug/L	0.962	1	35	25269	1	KED
	Zn	**67**	**55.942**	ug/L	2.340	4	6	3840	3	KED
	As	**75**	**0.228**	ug/L	0.019	8	7	53	5	KED
	Se	**78**	**0.467**	ug/L	0.083	17	14	24	8	KED
	Y	**89**		ug/L			287925	265515	2	Standard
	Kr	**83**		ug/L			53	46	9	Standard
>	**In-1**	**115**		ug/L			7687	7487	3	KED
	Cd	**111**	**0.035**	ug/L	0.022	63	4	12	39	KED
	Cd	**114**	**0.026**	ug/L	0.010	38	7	21	24	KED
>	**In**	**115**		ug/L			427037	387575	1	Standard
	Ag	**107**	**-0.000**	ug/L	0.002	718	100	87	27	Standard
	Ba	**135**	**2.562**	ug/L	0.020	0	78	9076	0	Standard
	Ba	**137**	**2.605**	ug/L	0.082	3	142	16310	3	Standard
>	**Tb**	**159**		ug/L			675781	650380	1	Standard
	Pb	**208**	**0.231**	ug/L	0.004	1	179	10276	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:05:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	730988	1	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	47	7	19	29	Standard
	C	**13**		ug/L			36839	42041	1	Standard
	Cl	**37**		ug/L			4390964	5770322	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	523298	1	Standard
⌈	**Cr**	**52**	**1.233**	ug/L	0.036	2	15443	38141	2	Standard
⌊	**Cr**	**53**	**3.754**	ug/L	0.091	2	178	8445	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	26451	0	KED
⌈	**Ni**	**60**	**0.953**	ug/L	0.074	7	40	1030	6	KED
⌊	**Ni**	**62**	**1.010**	ug/L	0.146	14	6	174	14	KED
⌈	**Cu**	**63**	**1.717**	ug/L	0.004	0	46	5185	1	KED
⌊	**Cu**	**65**	**1.679**	ug/L	0.030	1	30	2543	0	KED
⌈	**Zn**	**66**	**92.026**	ug/L	2.400	2	35	37139	3	KED
⌊	**Zn**	**67**	**80.522**	ug/L	3.120	3	6	5503	3	KED
⌈	**As**	**75**	**0.244**	ug/L	0.036	14	7	56	12	KED
⌊	**Se**	**78**	**0.202**	ug/L	0.146	71	14	18	16	KED
	Y	**89**		ug/L			287925	276939	1	Standard
	Kr	**83**		ug/L			53	55	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7259	1	KED
⌈	**Cd**	**111**	**0.058**	ug/L	0.014	23	4	17	20	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.007	21	7	23	16	KED
⌈>	**In**	**115**		ug/L			427037	406438	1	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.001	46	100	121	8	Standard
⌈	**Ba**	**135**	**1.861**	ug/L	0.064	3	78	6933	1	Standard
⌊	**Ba**	**137**	**1.870**	ug/L	0.037	1	142	12317	0	Standard
⌈>	**Tb**	**159**		ug/L			675781	676477	2	Standard
⌊	**Pb**	**208**	**0.694**	ug/L	0.033	4	179	31735	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0435-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:12:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	706457	3	Standard
[	**Be**	**9**	**0.001**	ug/L	0.000	10	7	17	6	Standard
	C	**13**		ug/L			36839	57678	1	Standard
	Cl	**37**		ug/L			4390964	4380616	0	Standard
[>	**Sc**	**45**		ug/L			538647	628947	1	Standard
[	**Cr**	**52**	**0.655**	ug/L	0.024	3	15443	32806	1	Standard
[	**Cr**	**53**	**1.120**	ug/L	0.010	0	178	3174	2	Standard
[>	**Ge**	**72**		ug/L			26915	27674	7	KED
[	**Ni**	**60**	**0.554**	ug/L	0.043	7	40	642	5	KED
[	**Ni**	**62**	**0.535**	ug/L	0.167	31	6	99	27	KED
[	**Cu**	**63**	**0.255**	ug/L	0.033	13	46	840	5	KED
[	**Cu**	**65**	**0.268**	ug/L	0.028	10	30	448	2	KED
[	**Zn**	**66**	**0.262**	ug/L	0.026	9	35	147	11	KED
[	**Zn**	**67**	**0.798**	ug/L	0.217	27	6	63	17	KED
[	**As**	**75**	**1.038**	ug/L	0.093	9	7	227	2	KED
[	**Se**	**78**	**0.283**	ug/L	0.053	18	14	21	9	KED
	Y	**89**		ug/L			287925	267618	1	Standard
	Kr	**83**		ug/L			53	55	15	Standard
[>	**In-1**	**115**		ug/L			7687	7450	0	KED
[	**Cd**	**111**	**0.009**	ug/L	0.002	26	4	6	9	KED
[	**Cd**	**114**	**0.009**	ug/L	0.004	40	7	12	17	KED
[>	**In**	**115**		ug/L			427037	391168	2	Standard
[	**Ag**	**107**	**0.016**	ug/L	0.002	10	100	299	5	Standard
[	**Ba**	**135**	**4.602**	ug/L	0.020	0	78	16397	2	Standard
[	**Ba**	**137**	**4.528**	ug/L	0.099	2	142	28519	1	Standard
[>	**Tb**	**159**		ug/L			675781	639111	1	Standard
[	**Pb**	**208**	**0.018**	ug/L	0.001	5	179	945	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-DUP3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:17:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	710228	1	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	213	7	10	65	Standard
	C	**13**		ug/L			36839	58341	2	Standard
	Cl	**37**		ug/L			4390964	4432878	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	645303	1	Standard
⌈	**Cr**	**52**	**0.669**	ug/L	0.026	3	15443	33984	1	Standard
⌊	**Cr**	**53**	**1.136**	ug/L	0.026	2	178	3300	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26091	1	KED
⌈	**Ni**	**60**	**0.658**	ug/L	0.076	11	40	713	8	KED
⌊	**Ni**	**62**	**0.661**	ug/L	0.019	2	6	114	2	KED
⌈	**Cu**	**63**	**0.174**	ug/L	0.011	6	46	558	4	KED
⌊	**Cu**	**65**	**0.169**	ug/L	0.001	0	30	278	2	KED
⌈	**Zn**	**66**	**0.155**	ug/L	0.012	8	35	95	4	KED
⌊	**Zn**	**67**	**0.767**	ug/L	0.029	3	6	58	4	KED
⌈	**As**	**75**	**1.197**	ug/L	0.050	4	7	247	4	KED
⌊	**Se**	**78**	**0.173**	ug/L	0.076	43	14	17	10	KED
	Y	**89**		ug/L			287925	270448	3	Standard
	Kr	**83**		ug/L			53	50	18	Standard
⌈>	**In-1**	**115**		ug/L			7687	7204	2	KED
⌈	**Cd**	**111**	**-0.005**	ug/L	0.004	89	4	2	33	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.005	98	7	4	67	KED
⌈>	**In**	**115**		ug/L			427037	389102	2	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	172	100	80	19	Standard
⌈	**Ba**	**135**	**4.722**	ug/L	0.084	1	78	16728	1	Standard
⌊	**Ba**	**137**	**4.814**	ug/L	0.188	3	142	30134	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	647892	1	Standard
⌊	**Pb**	**208**	**0.015**	ug/L	0.001	7	179	808	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-MS3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:22:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	724025	4	Standard
⎣	**Be**	**9**	**24.450**	ug/L	0.915	3	7	180504	0	Standard
	C	**13**		ug/L			36839	60891	3	Standard
	Cl	**37**		ug/L			4390964	4584220	3	Standard
⎡>	**Sc**	**45**		ug/L			538647	665408	3	Standard
⎢	**Cr**	**52**	**20.498**	ug/L	0.360	1	15443	507991	1	Standard
⎣	**Cr**	**53**	**20.820**	ug/L	0.211	1	178	58550	3	Standard
⎡>	**Ge**	**72**		ug/L			26915	25546	2	KED
⎢	**Ni**	**60**	**25.638**	ug/L	0.744	2	40	25777	2	KED
⎢	**Ni**	**62**	**26.237**	ug/L	1.180	4	6	4210	3	KED
⎢	**Cu**	**63**	**24.969**	ug/L	0.529	2	46	72191	0	KED
⎢	**Cu**	**65**	**24.639**	ug/L	0.706	2	30	35634	2	KED
⎢	**Zn**	**66**	**76.143**	ug/L	2.049	2	35	29669	1	KED
⎢	**Zn**	**67**	**71.738**	ug/L	4.010	5	6	4731	3	KED
⎢	**As**	**75**	**26.241**	ug/L	0.970	3	7	5172	2	KED
⎣	**Se**	**78**	**75.372**	ug/L	0.782	1	14	1628	1	KED
	Y	**89**		ug/L			287925	275379	2	Standard
	Kr	**83**		ug/L			53	80	8	Standard
⎡>	**In-1**	**115**		ug/L			7687	6905	1	KED
⎢	**Cd**	**111**	**25.029**	ug/L	0.276	1	4	5407	1	KED
⎣	**Cd**	**114**	**25.332**	ug/L	0.848	3	7	13302	2	KED
⎡>	**In**	**115**		ug/L			427037	397838	1	Standard
⎢	**Ag**	**107**	**23.808**	ug/L	0.418	1	100	319621	3	Standard
⎢	**Ba**	**135**	**29.935**	ug/L	0.518	1	78	108059	1	Standard
⎣	**Ba**	**137**	**30.215**	ug/L	0.351	1	142	192831	2	Standard
⎡>	**Tb**	**159**		ug/L			675781	658846	3	Standard
⎣	**Pb**	**208**	**25.017**	ug/L	0.703	2	179	1108444	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0015-MSD3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:27:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			766222	677222	4	Standard
[	Be	9	24.529	ug/L	1.184	4	7	169448	4	Standard
	C	13		ug/L			36839	55239	1	Standard
	Cl	37		ug/L			4390964	4386594	2	Standard
[>	Sc	45		ug/L			538647	615458	1	Standard
[	Cr	52	20.328	ug/L	0.299	1	15443	466215	0	Standard
[	Cr	53	20.669	ug/L	0.346	1	178	53761	1	Standard
[>	Ge	72		ug/L			26915	23951	0	KED
[	Ni	60	25.491	ug/L	0.353	1	40	24035	1	KED
[	Ni	62	24.795	ug/L	0.500	2	6	3732	1	KED
[	Cu	63	24.124	ug/L	0.092	0	46	65420	1	KED
[	Cu	65	24.713	ug/L	0.467	1	30	33519	1	KED
[	Zn	66	74.839	ug/L	0.603	0	35	27353	1	KED
[	Zn	67	69.452	ug/L	1.699	2	6	4298	1	KED
[	As	75	25.678	ug/L	0.514	2	7	4746	1	KED
[	Se	78	72.989	ug/L	3.409	4	14	1479	4	KED
	Y	89		ug/L			287925	250881	1	Standard
	Kr	83		ug/L			53	78	12	Standard
[>	In-1	115		ug/L			7687	6736	2	KED
[	Cd	111	24.354	ug/L	0.377	1	4	5131	1	KED
[	Cd	114	24.377	ug/L	0.729	2	7	12485	1	KED
[>	In	115		ug/L			427037	370625	0	Standard
[	Ag	107	22.849	ug/L	0.474	2	100	285700	1	Standard
[	Ba	135	30.658	ug/L	0.282	0	78	103113	0	Standard
[	Ba	137	30.167	ug/L	0.539	1	142	179340	1	Standard
[>	Tb	159		ug/L			675781	616557	1	Standard
[	Pb	208	24.987	ug/L	0.730	2	179	1036244	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:31:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	742626	0	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	518	7	6	31	Standard
	C	**13**		ug/L			36839	40869	2	Standard
	Cl	**37**		ug/L			4390964	4240211	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	527506	2	Standard
⌈	**Cr**	**52**	**-0.001**	ug/L	0.024	1862	15443	15091	1	Standard
⌊	**Cr**	**53**	**0.046**	ug/L	0.007	14	178	277	5	Standard
⌈>	**Ge**	**72**		ug/L			26915	27124	3	KED
⌈	**Ni**	**60**	**0.018**	ug/L	0.006	35	40	59	8	KED
⌈	**Ni**	**62**	**0.026**	ug/L	0.021	80	6	11	28	KED
⌈	**Cu**	**63**	**-0.001**	ug/L	0.001	92	46	45	7	KED
⌈	**Cu**	**65**	**-0.000**	ug/L	0.006	1355	30	29	26	KED
⌈	**Zn**	**66**	**0.001**	ug/L	0.019	1447	35	36	18	KED
⌈	**Zn**	**67**	**0.054**	ug/L	0.059	109	6	10	36	KED
⌈	**As**	**75**	**0.009**	ug/L	0.007	75	7	9	18	KED
⌊	**Se**	**78**	**0.051**	ug/L	0.200	392	14	15	29	KED
	Y	**89**		ug/L			287925	280009	2	Standard
	Kr	**83**		ug/L			53	66	26	Standard
⌈>	**In-1**	**115**		ug/L			7687	7908	2	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.004	69	4	2	33	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.005	112	7	4	58	KED
⌈>	**In**	**115**		ug/L			427037	418765	1	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.000	25	100	106	1	Standard
⌈	**Ba**	**135**	**-0.008**	ug/L	0.002	29	78	45	20	Standard
⌊	**Ba**	**137**	**-0.009**	ug/L	0.003	34	142	81	23	Standard
⌈>	**Tb**	**159**		ug/L			675781	662254	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	109	179	165	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments: DEL
Sample Date/Time: Thursday, January 12, 2023 18:36:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	728565	1	Standard
⌊	**Be**	**9**	**50.252**	ug/L	2.139	4	7	373626	3	Standard
	C	**13**		ug/L			36839	38459	2	Standard
	Cl	**37**		ug/L			4390964	4527669	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	508033	2	Standard
⌈	**Cr**	**52**	**49.888**	ug/L	1.304	2	15443	923057	1	Standard
⌊	**Cr**	**53**	**49.329**	ug/L	1.277	2	178	105672	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	27580	6	KED
⌈	**Ni**	**60**	**47.092**	ug/L	3.898	8	40	50914	2	KED
⌊	**Ni**	**62**	**47.114**	ug/L	4.640	9	6	8126	3	KED
⌈	**Cu**	**63**	**47.405**	ug/L	3.398	7	46	147506	0	KED
⌊	**Cu**	**65**	**46.225**	ug/L	3.953	8	30	71909	3	KED
⌈	**Zn**	**66**	**47.968**	ug/L	4.242	8	35	20120	1	KED
⌊	**Zn**	**67**	**46.577**	ug/L	3.995	8	6	3312	5	KED
⌈	**As**	**75**	**47.199**	ug/L	3.794	8	7	10006	1	KED
⌊	**Se**	**78**	**47.409**	ug/L	4.675	9	14	1106	2	KED
	Y	**89**		ug/L			287925	268980	1	Standard
	Kr	**83**		ug/L			53	58	20	Standard
⌈>	**In-1**	**115**		ug/L			7687	7507	2	KED
⌈	**Cd**	**111**	**50.186**	ug/L	0.872	1	4	11786	3	KED
⌊	**Cd**	**114**	**50.793**	ug/L	1.152	2	7	29006	3	KED
⌈>	**In**	**115**		ug/L			427037	397823	1	Standard
⌈	**Ag**	**107**	**50.203**	ug/L	0.173	0	100	673712	1	Standard
⌈	**Ba**	**135**	**49.164**	ug/L	0.027	0	78	177449	1	Standard
⌊	**Ba**	**137**	**48.555**	ug/L	0.256	0	142	309758	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	652802	1	Standard
⌊	**Pb**	**208**	**49.739**	ug/L	0.370	0	179	2184826	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:44:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⎡>	**Li**	**6**		ug/L			766222	736842	4	Standard
⎣	**Be**	**9**	**49.412**	ug/L	2.337	4	7	371385	4	Standard
	C	**13**		ug/L			36839	38351	3	Standard
	Cl	**37**		ug/L			4390964	4665353	1	Standard
⎡>	**Sc**	**45**		ug/L			538647	509755	2	Standard
⎢	**Cr**	**52**	**49.905**	ug/L	1.404	2	15443	926825	4	Standard
⎣	**Cr**	**53**	**49.796**	ug/L	0.695	1	178	107059	3	Standard
⎡>	**Ge**	**72**		ug/L			26915	27111	3	KED
⎢	**Ni**	**60**	**47.602**	ug/L	1.645	3	40	50730	0	KED
⎢	**Ni**	**62**	**47.989**	ug/L	1.963	4	6	8163	1	KED
⎢	**Cu**	**63**	**47.807**	ug/L	2.336	4	46	146588	3	KED
⎢	**Cu**	**65**	**47.183**	ug/L	1.487	3	30	72358	0	KED
⎢	**Zn**	**66**	**48.816**	ug/L	2.360	4	35	20184	1	KED
⎢	**Zn**	**67**	**48.579**	ug/L	3.288	6	6	3401	4	KED
⎢	**As**	**75**	**47.839**	ug/L	2.013	4	7	9995	1	KED
⎣	**Se**	**78**	**48.143**	ug/L	1.969	4	14	1108	2	KED
	Y	**89**		ug/L			287925	273441	3	Standard
	Kr	**83**		ug/L			53	70	12	Standard
⎡>	**In-1**	**115**		ug/L			7687	7552	2	KED
⎢	**Cd**	**111**	**50.028**	ug/L	0.959	1	4	11813	1	KED
⎣	**Cd**	**114**	**49.797**	ug/L	0.862	1	7	28598	2	KED
⎡>	**In**	**115**		ug/L			427037	399410	2	Standard
⎢	**Ag**	**107**	**50.754**	ug/L	1.338	2	100	684195	5	Standard
⎢	**Ba**	**135**	**48.909**	ug/L	0.212	0	78	177218	2	Standard
⎣	**Ba**	**137**	**49.294**	ug/L	0.446	0	142	315682	2	Standard
⎡>	**Tb**	**159**		ug/L			675781	657885	3	Standard
⎣	**Pb**	**208**	**49.804**	ug/L	1.175	2	179	2203545	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:51:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	735602	3	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.000	141	7	8	13	Standard
	C	**13**		ug/L			36839	37393	1	Standard
	Cl	**37**		ug/L			4390964	4308048	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	514699	2	Standard
⌈	**Cr**	**52**	**0.020**	ug/L	0.029	146	15443	15112	1	Standard
⌊	**Cr**	**53**	**0.024**	ug/L	0.008	35	178	221	8	Standard
⌈>	**Ge**	**72**		ug/L			26915	27806	4	KED
⌈	**Ni**	**60**	**0.041**	ug/L	0.014	34	40	86	14	KED
⌊	**Ni**	**62**	**0.027**	ug/L	0.033	119	6	12	48	KED
⌈	**Cu**	**63**	**-0.008**	ug/L	0.003	45	46	24	43	KED
⌊	**Cu**	**65**	**-0.010**	ug/L	0.001	14	30	16	17	KED
⌈	**Zn**	**66**	**-0.046**	ug/L	0.007	15	35	17	22	KED
⌊	**Zn**	**67**	**-0.019**	ug/L	0.073	387	6	5	88	KED
⌈	**As**	**75**	**0.008**	ug/L	0.005	64	7	9	13	KED
⌊	**Se**	**78**	**0.048**	ug/L	0.181	374	14	15	24	KED
	Y	**89**		ug/L			287925	272565	2	Standard
	Kr	**83**		ug/L			53	52	18	Standard
⌈>	**In-1**	**115**		ug/L			7687	7545	0	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.006	97	4	2	57	KED
⌊	**Cd**	**114**	**-0.012**	ug/L	0.002	14	7	0	190	KED
⌈>	**In**	**115**		ug/L			427037	409371	2	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.001	47	100	118	9	Standard
⌈	**Ba**	**135**	**-0.016**	ug/L	0.002	10	78	14	39	Standard
⌊	**Ba**	**137**	**-0.015**	ug/L	0.001	5	142	41	9	Standard
⌈>	**Tb**	**159**		ug/L			675781	648574	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	17	179	120	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 18:57:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	743289	1	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	62	7	19	40	Standard
	C	**13**		ug/L			36839	53109	1	Standard
	Cl	**37**		ug/L			4390964	10966788	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	536108	2	Standard
⌈	**Cr**	**52**	**4.617**	ug/L	0.165	3	15443	104069	0	Standard
⌊	**Cr**	**53**	**11.935**	ug/L	0.244	2	178	27116	3	Standard
⌈>	**Ge**	**72**		ug/L			26915	25689	1	KED
⌈	**Ni**	**60**	**3.114**	ug/L	0.095	3	40	3183	2	KED
⌊	**Ni**	**62**	**3.410**	ug/L	0.166	4	6	556	4	KED
⌈	**Cu**	**63**	**3.220**	ug/L	0.085	2	46	9403	2	KED
⌊	**Cu**	**65**	**3.178**	ug/L	0.073	2	30	4647	1	KED
⌈	**Zn**	**66**	**297.201**	ug/L	3.485	1	35	116396	0	KED
⌊	**Zn**	**67**	**266.434**	ug/L	2.015	0	6	17670	1	KED
⌈	**As**	**75**	**0.770**	ug/L	0.054	7	7	159	6	KED
⌊	**Se**	**78**	**0.676**	ug/L	0.216	31	14	28	15	KED
	Y	**89**		ug/L			287925	274130	1	Standard
	Kr	**83**		ug/L			53	54	21	Standard
⌈>	**In-1**	**115**		ug/L			7687	7037	3	KED
⌈	**Cd**	**111**	**0.181**	ug/L	0.033	18	4	43	19	KED
⌊	**Cd**	**114**	**0.196**	ug/L	0.020	10	7	111	6	KED
⌈>	**In**	**115**		ug/L			427037	395664	1	Standard
⌈	**Ag**	**107**	**0.003**	ug/L	0.001	19	100	139	7	Standard
⌈	**Ba**	**135**	**10.427**	ug/L	0.148	1	78	37483	0	Standard
⌊	**Ba**	**137**	**10.515**	ug/L	0.164	1	142	66816	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	663937	0	Standard
⌊	**Pb**	**208**	**0.603**	ug/L	0.021	3	179	27104	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:02:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	756237	0	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.001	66	7	15	34	Standard
	C	**13**		ug/L			36839	52548	0	Standard
	Cl	**37**		ug/L			4390964	9592443	4	Standard
⌈>	**Sc**	**45**		ug/L			538647	531020	0	Standard
⌈	**Cr**	**52**	**3.052**	ug/L	0.114	3	15443	73332	3	Standard
⌊	**Cr**	**53**	**9.671**	ug/L	0.103	1	178	21797	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	26077	1	KED
⌈	**Ni**	**60**	**1.244**	ug/L	0.072	5	40	1315	6	KED
⌈	**Ni**	**62**	**1.368**	ug/L	0.139	10	6	230	9	KED
⌈	**Cu**	**63**	**2.226**	ug/L	0.060	2	46	6614	4	KED
⌈	**Cu**	**65**	**2.196**	ug/L	0.086	3	30	3269	3	KED
⌈	**Zn**	**66**	**61.347**	ug/L	0.686	1	35	24418	1	KED
⌈	**Zn**	**67**	**57.036**	ug/L	2.611	4	6	3845	5	KED
⌈	**As**	**75**	**0.363**	ug/L	0.019	5	7	80	6	KED
⌊	**Se**	**78**	**0.231**	ug/L	0.244	105	14	19	28	KED
	Y	**89**		ug/L			287925	271267	1	Standard
	Kr	**83**		ug/L			53	66	15	Standard
⌈>	**In-1**	**115**		ug/L			7687	7361	0	KED
⌈	**Cd**	**111**	**0.015**	ug/L	0.003	17	4	7	7	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.007	847	7	6	58	KED
⌈>	**In**	**115**		ug/L			427037	395943	0	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	180	100	84	18	Standard
⌈	**Ba**	**135**	**10.874**	ug/L	0.176	1	78	39115	1	Standard
⌊	**Ba**	**137**	**10.615**	ug/L	0.106	1	142	67503	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	662287	2	Standard
⌊	**Pb**	**208**	**0.312**	ug/L	0.010	3	179	14092	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0191-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:07:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	726244	4	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.000	227	7	8	44	Standard
	C	**13**		ug/L			36839	50246	1	Standard
	Cl	**37**		ug/L			4390964	8156909	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	514478	1	Standard
⌈	**Cr**	**52**	**1.264**	ug/L	0.038	2	15443	38057	1	Standard
⌊	**Cr**	**53**	**6.893**	ug/L	0.206	2	178	15099	2	Standard
⌈>	**Ge**	**72**		ug/L			26915	26365	4	KED
⌈	**Ni**	**60**	**0.892**	ug/L	0.046	5	40	963	2	KED
⌊	**Ni**	**62**	**0.838**	ug/L	0.093	11	6	145	10	KED
⌈	**Cu**	**63**	**0.312**	ug/L	0.004	1	46	977	5	KED
⌊	**Cu**	**65**	**0.315**	ug/L	0.016	5	30	498	1	KED
⌈	**Zn**	**66**	**8.826**	ug/L	0.246	2	35	3579	2	KED
⌊	**Zn**	**67**	**9.563**	ug/L	0.420	4	6	657	4	KED
⌈	**As**	**75**	**0.265**	ug/L	0.019	7	7	60	7	KED
⌊	**Se**	**78**	**0.333**	ug/L	0.180	53	14	21	15	KED
	Y	**89**		ug/L			287925	264846	1	Standard
	Kr	**83**		ug/L			53	50	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7399	0	KED
⌈	**Cd**	**111**	**-0.002**	ug/L	0.005	228	4	3	31	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.005	133	7	4	59	KED
⌈>	**In**	**115**		ug/L			427037	381624	1	Standard
⌈	**Ag**	**107**	**-0.002**	ug/L	0.001	55	100	67	19	Standard
⌈	**Ba**	**135**	**11.702**	ug/L	0.226	1	78	40560	0	Standard
⌊	**Ba**	**137**	**11.512**	ug/L	0.182	1	142	70545	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	642539	3	Standard
⌊	**Pb**	**208**	**0.061**	ug/L	0.002	3	179	2803	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:14:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			766222	736408	3	Standard
⌊	Be	9	0.000	ug/L	0.001	789	7	8	93	Standard
	C	13		ug/L			36839	50347	0	Standard
	Cl	37		ug/L			4390964	8267196	1	Standard
⌈>	Sc	45		ug/L			538647	518876	0	Standard
⌈	Cr	52	1.246	ug/L	0.020	1	15443	38055	0	Standard
⌊	Cr	53	6.802	ug/L	0.124	1	178	15032	1	Standard
⌈>	Ge	72		ug/L			26915	24954	1	KED
⌈	Ni	60	0.870	ug/L	0.033	3	40	890	1	KED
⌊	Ni	62	0.871	ug/L	0.020	2	6	142	3	KED
⌈	Cu	63	0.315	ug/L	0.016	5	46	933	5	KED
⌊	Cu	65	0.312	ug/L	0.035	11	30	468	10	KED
⌈	Zn	66	9.225	ug/L	0.273	2	35	3540	1	KED
⌊	Zn	67	9.587	ug/L	0.529	5	6	623	3	KED
⌈	As	75	0.304	ug/L	0.016	5	7	65	6	KED
⌊	Se	78	0.315	ug/L	0.106	33	14	19	9	KED
	Y	89		ug/L			287925	265094	1	Standard
	Kr	83		ug/L			53	59	12	Standard
⌈>	In-1	115		ug/L			7687	7034	1	KED
⌈	Cd	111	0.007	ug/L	0.003	36	4	5	10	KED
⌊	Cd	114	0.003	ug/L	0.008	289	7	8	49	KED
⌈>	In	115		ug/L			427037	391374	1	Standard
⌈	Ag	107	-0.002	ug/L	0.002	78	100	66	29	Standard
⌈	Ba	135	11.016	ug/L	0.055	0	78	39169	1	Standard
⌊	Ba	137	10.952	ug/L	0.220	2	142	68825	0	Standard
⌈>	Tb	159		ug/L			675781	641278	0	Standard
⌊	Pb	208	0.064	ug/L	0.003	4	179	2909	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:19:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			766222	751827	4	Standard
⌊	Be	9	23.654	ug/L	0.867	3	7	181365	1	Standard
	C	13		ug/L			36839	53210	1	Standard
	Cl	37		ug/L			4390964	8403110	3	Standard
⌈>	Sc	45		ug/L			538647	532874	2	Standard
⌈	Cr	52	25.916	ug/L	0.336	1	15443	510384	1	Standard
⌊	Cr	53	28.549	ug/L	0.427	1	178	64213	1	Standard
⌈>	Ge	72		ug/L			26915	25773	1	KED
⌈	Ni	60	25.810	ug/L	0.508	1	40	26187	2	KED
⌊	Ni	62	26.931	ug/L	0.355	1	6	4361	1	KED
⌈	Cu	63	25.545	ug/L	0.198	0	46	74535	1	KED
⌊	Cu	65	25.150	ug/L	0.081	0	30	36709	2	KED
⌈	Zn	66	84.706	ug/L	1.272	1	35	33306	1	KED
⌊	Zn	67	78.523	ug/L	1.671	2	6	5228	0	KED
⌈	As	75	25.367	ug/L	0.346	1	7	5045	0	KED
⌊	Se	78	75.121	ug/L	2.309	3	14	1637	1	KED
	Y	89		ug/L			287925	279350	1	Standard
	Kr	83		ug/L			53	88	25	Standard
⌈>	In-1	115		ug/L			7687	7021	2	KED
⌈	Cd	111	24.919	ug/L	0.192	0	4	5475	2	KED
⌊	Cd	114	24.417	ug/L	0.132	0	7	13043	2	KED
⌈>	In	115		ug/L			427037	388670	0	Standard
⌈	Ag	107	24.614	ug/L	0.249	1	100	322795	1	Standard
⌈	Ba	135	37.012	ug/L	0.098	0	78	130535	1	Standard
⌊	Ba	137	37.464	ug/L	0.705	1	142	233568	2	Standard
⌈>	Tb	159		ug/L			675781	664809	2	Standard
⌊	Pb	208	24.608	ug/L	0.631	2	179	1100344	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0278-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:23:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			766222	726911	4	Standard
	Be	9	24.199	ug/L	1.182	4	7	179387	3	Standard
	C	13		ug/L			36839	53507	1	Standard
	Cl	37		ug/L			4390964	8166185	2	Standard
>	Sc	45		ug/L			538647	527968	3	Standard
	Cr	52	25.897	ug/L	0.178	0	15443	505351	2	Standard
	Cr	53	28.119	ug/L	0.479	1	178	62671	3	Standard
>	Ge	72		ug/L			26915	25855	1	KED
	Ni	60	25.915	ug/L	0.714	2	40	26372	1	KED
	Ni	62	26.849	ug/L	1.297	4	6	4360	3	KED
	Cu	63	25.871	ug/L	0.515	1	46	75715	0	KED
	Cu	65	25.410	ug/L	0.498	1	30	37195	0	KED
	Zn	66	85.468	ug/L	1.679	1	35	33708	0	KED
	Zn	67	80.826	ug/L	3.280	4	6	5398	3	KED
	As	75	25.584	ug/L	0.447	1	7	5105	0	KED
	Se	78	76.238	ug/L	3.545	4	14	1666	3	KED
	Y	89		ug/L			287925	271289	2	Standard
	Kr	83		ug/L			53	93	16	Standard
>	In-1	115		ug/L			7687	7249	2	KED
	Cd	111	24.571	ug/L	0.730	2	4	5570	2	KED
	Cd	114	24.579	ug/L	0.313	1	7	13551	1	KED
>	In	115		ug/L			427037	391727	1	Standard
	Ag	107	24.401	ug/L	0.433	1	100	322486	2	Standard
	Ba	135	37.405	ug/L	0.312	0	78	132960	2	Standard
	Ba	137	37.285	ug/L	0.793	2	142	234224	1	Standard
>	Tb	159		ug/L			675781	663708	2	Standard
	Pb	208	24.736	ug/L	0.443	1	179	1104347	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:32:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	912346	1	Standard
⌊	**Be**	**9**	**0.018**	ug/L	0.003	16	7	179	15	Standard
	C	**13**		ug/L			36839	67964	2	Standard
	Cl	**37**		ug/L			4390964	4919248	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	602487	1	Standard
⌈	**Cr**	**52**	**5.314**	ug/L	0.101	1	15443	132053	1	Standard
⌊	**Cr**	**53**	**5.457**	ug/L	0.128	2	178	14039	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	25000	1	KED
⌈	**Ni**	**60**	**0.398**	ug/L	0.026	6	40	429	5	KED
⌊	**Ni**	**62**	**0.356**	ug/L	0.044	12	6	62	9	KED
⌈	**Cu**	**63**	**6.924**	ug/L	0.075	1	46	19629	1	KED
⌊	**Cu**	**65**	**6.852**	ug/L	0.059	0	30	9720	1	KED
⌈	**Zn**	**66**	**2.973**	ug/L	0.136	4	35	1165	4	KED
⌊	**Zn**	**67**	**2.941**	ug/L	0.392	13	6	196	12	KED
⌈	**As**	**75**	**0.077**	ug/L	0.036	47	7	21	32	KED
⌊	**Se**	**78**	**0.073**	ug/L	0.106	146	14	14	14	KED
	Y	**89**		ug/L			287925	293961	1	Standard
	Kr	**83**		ug/L			53	58	17	Standard
⌈>	**In-1**	**115**		ug/L			7687	7037	0	KED
⌈	**Cd**	**111**	**0.069**	ug/L	0.027	38	4	19	31	KED
⌊	**Cd**	**114**	**0.071**	ug/L	0.019	26	7	44	23	KED
⌈>	**In**	**115**		ug/L			427037	407246	1	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	90	100	87	9	Standard
⌈	**Ba**	**135**	**1.533**	ug/L	0.038	2	78	5737	1	Standard
⌊	**Ba**	**137**	**1.576**	ug/L	0.005	0	142	10425	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	667021	1	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	12	179	565	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:37:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	780703	0	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.000	27	7	18	15	Standard
	C	**13**		ug/L			36839	55740	2	Standard
	Cl	**37**		ug/L			4390964	4760158	2	Standard
⌈>	**Sc**	**45**		ug/L			538647	586311	0	Standard
⌈	**Cr**	**52**	**8.624**	ug/L	0.091	1	15443	198112	0	Standard
⌊	**Cr**	**53**	**8.735**	ug/L	0.167	1	178	21755	0	Standard
⌈>	**Ge**	**72**		ug/L			26915	24887	1	KED
⌈	**Ni**	**60**	**0.239**	ug/L	0.025	10	40	271	8	KED
⌊	**Ni**	**62**	**0.386**	ug/L	0.048	12	6	66	10	KED
⌈	**Cu**	**63**	**6.676**	ug/L	0.168	2	46	18839	2	KED
⌊	**Cu**	**65**	**6.520**	ug/L	0.102	1	30	9211	2	KED
⌈	**Zn**	**66**	**1.565**	ug/L	0.173	11	35	626	9	KED
⌊	**Zn**	**67**	**1.404**	ug/L	0.311	22	6	96	19	KED
⌈	**As**	**75**	**0.052**	ug/L	0.006	10	7	16	7	KED
⌊	**Se**	**78**	**0.168**	ug/L	0.098	58	14	16	12	KED
	Y	**89**		ug/L			287925	287175	0	Standard
	Kr	**83**		ug/L			53	53	10	Standard
⌈>	**In-1**	**115**		ug/L			7687	6838	2	KED
⌈	**Cd**	**111**	**0.010**	ug/L	0.005	50	4	5	16	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	56	7	3	56	KED
⌈>	**In**	**115**		ug/L			427037	398019	0	Standard
⌈	**Ag**	**107**	**-0.002**	ug/L	0.001	52	100	67	20	Standard
⌈	**Ba**	**135**	**1.604**	ug/L	0.025	1	78	5862	1	Standard
⌊	**Ba**	**137**	**1.630**	ug/L	0.032	1	142	10535	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	646052	1	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.001	11	179	642	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0126-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:42:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	821976	2	Standard
[	**Be**	**9**	**0.000**	ug/L	0.000	4384	7	8	48	Standard
	C	**13**		ug/L			36839	58274	2	Standard
	Cl	**37**		ug/L			4390964	4796965	2	Standard
[>	**Sc**	**45**		ug/L			538647	575786	2	Standard
[	**Cr**	**52**	**4.265**	ug/L	0.110	2	15443	104523	1	Standard
[	**Cr**	**53**	**4.287**	ug/L	0.028	0	178	10584	2	Standard
[>	**Ge**	**72**		ug/L			26915	25056	1	KED
[	**Ni**	**60**	**0.274**	ug/L	0.020	7	40	307	6	KED
[	**Ni**	**62**	**0.351**	ug/L	0.047	13	6	61	10	KED
[	**Cu**	**63**	**5.490**	ug/L	0.069	1	46	15606	0	KED
[	**Cu**	**65**	**5.463**	ug/L	0.205	3	30	7772	2	KED
[	**Zn**	**66**	**1.111**	ug/L	0.083	7	35	457	7	KED
[	**Zn**	**67**	**1.127**	ug/L	0.174	15	6	79	14	KED
[	**As**	**75**	**0.049**	ug/L	0.010	19	7	16	10	KED
[	**Se**	**78**	**0.183**	ug/L	0.089	48	14	17	11	KED
	Y	**89**		ug/L			287925	288859	2	Standard
	Kr	**83**		ug/L			53	62	10	Standard
[>	**In-1**	**115**		ug/L			7687	6945	1	KED
[	**Cd**	**111**	**-0.003**	ug/L	0.005	208	4	3	34	KED
[	**Cd**	**114**	**-0.006**	ug/L	0.000	4	7	3	2	KED
[>	**In**	**115**		ug/L			427037	393264	2	Standard
[	**Ag**	**107**	**-0.004**	ug/L	0.001	25	100	41	32	Standard
[	**Ba**	**135**	**1.978**	ug/L	0.036	1	78	7125	0	Standard
[	**Ba**	**137**	**1.934**	ug/L	0.053	2	142	12318	2	Standard
[>	**Tb**	**159**		ug/L			675781	642706	3	Standard
[	**Pb**	**208**	**0.008**	ug/L	0.002	19	179	516	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0192-03RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:47:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			766222	774703	3	Standard
[	**Be**	**9**	**0.001**	ug/L	0.001	59	7	15	33	Standard
	C	**13**		ug/L			36839	43423	2	Standard
	Cl	**37**		ug/L			4390964	6080299	3	Standard
[>	**Sc**	**45**		ug/L			538647	538459	1	Standard
[	**Cr**	**52**	**1.046**	ug/L	0.063	6	15443	35630	2	Standard
[	**Cr**	**53**	**3.161**	ug/L	0.048	1	178	7344	0	Standard
[>	**Ge**	**72**		ug/L			26915	27407	3	KED
[	**Ni**	**60**	**0.698**	ug/L	0.047	6	40	792	3	KED
[	**Ni**	**62**	**0.658**	ug/L	0.090	13	6	120	9	KED
[	**Cu**	**63**	**0.726**	ug/L	0.010	1	46	2298	4	KED
[	**Cu**	**65**	**0.702**	ug/L	0.032	4	30	1120	6	KED
[	**Zn**	**66**	**71.328**	ug/L	2.504	3	35	29811	1	KED
[	**Zn**	**67**	**65.341**	ug/L	2.161	3	6	4625	1	KED
[	**As**	**75**	**0.160**	ug/L	0.025	15	7	40	11	KED
[	**Se**	**78**	**0.004**	ug/L	0.105	2356	14	14	13	KED
	Y	**89**		ug/L			287925	280000	1	Standard
	Kr	**83**		ug/L			53	48	23	Standard
[>	**In-1**	**115**		ug/L			7687	7155	0	KED
[	**Cd**	**111**	**0.048**	ug/L	0.015	30	4	14	22	KED
[	**Cd**	**114**	**0.044**	ug/L	0.019	43	7	30	34	KED
[>	**In**	**115**		ug/L			427037	400380	0	Standard
[	**Ag**	**107**	**-0.002**	ug/L	0.000	20	100	60	11	Standard
[	**Ba**	**135**	**2.101**	ug/L	0.026	1	78	7701	0	Standard
[	**Ba**	**137**	**2.077**	ug/L	0.031	1	142	13464	1	Standard
[>	**Tb**	**159**		ug/L			675781	646508	1	Standard
[	**Pb**	**208**	**0.139**	ug/L	0.005	3	179	6207	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 19:53:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	797678	4	Standard
⌊	**Be**	**9**	**50.420**	ug/L	3.534	7	7	409745	2	Standard
	C	**13**		ug/L			36839	40863	3	Standard
	Cl	**37**		ug/L			4390964	4839629	0	Standard
⌈>	**Sc**	**45**		ug/L			538647	566405	2	Standard
⌈	**Cr**	**52**	**48.841**	ug/L	1.149	2	15443	1007853	0	Standard
⌊	**Cr**	**53**	**48.106**	ug/L	1.945	4	178	114842	1	Standard
⌈>	**Ge**	**72**		ug/L			26915	26784	1	KED
⌈	**Ni**	**60**	**51.196**	ug/L	0.675	1	40	53944	1	KED
⌊	**Ni**	**62**	**51.771**	ug/L	1.197	2	6	8707	1	KED
⌈	**Cu**	**63**	**52.533**	ug/L	0.204	0	46	159260	1	KED
⌊	**Cu**	**65**	**51.399**	ug/L	0.336	0	30	77929	1	KED
⌈	**Zn**	**66**	**51.373**	ug/L	1.302	2	35	21006	2	KED
⌊	**Zn**	**67**	**50.463**	ug/L	2.336	4	6	3493	3	KED
⌈	**As**	**75**	**49.584**	ug/L	0.472	0	7	10244	1	KED
⌊	**Se**	**78**	**50.237**	ug/L	0.659	1	14	1142	0	KED
	Y	**89**		ug/L			287925	295022	1	Standard
	Kr	**83**		ug/L			53	65	14	Standard
⌈>	**In-1**	**115**		ug/L			7687	7443	1	KED
⌈	**Cd**	**111**	**51.461**	ug/L	0.271	0	4	11979	1	KED
⌊	**Cd**	**114**	**50.886**	ug/L	0.898	1	7	28802	0	KED
⌈>	**In**	**115**		ug/L			427037	424855	1	Standard
⌈	**Ag**	**107**	**49.020**	ug/L	0.600	1	100	702505	1	Standard
⌈	**Ba**	**135**	**47.893**	ug/L	0.836	1	78	184584	0	Standard
⌊	**Ba**	**137**	**47.266**	ug/L	1.177	2	142	321984	1	Standard
⌈>	**Tb**	**159**		ug/L			675781	673995	1	Standard
⌊	**Pb**	**208**	**50.717**	ug/L	1.557	3	179	2299094	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:00:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			766222	774985	5	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	240	7	6	45	Standard
	C	**13**		ug/L			36839	41009	7	Standard
	Cl	**37**		ug/L			4390964	4455865	1	Standard
⌈>	**Sc**	**45**		ug/L			538647	545509	2	Standard
⌈	**Cr**	**52**	**0.008**	ug/L	0.035	422	15443	15802	5	Standard
⌊	**Cr**	**53**	**0.044**	ug/L	0.003	5	178	281	4	Standard
⌈>	**Ge**	**72**		ug/L			26915	27073	3	KED
⌈	**Ni**	**60**	**-0.009**	ug/L	0.013	147	40	31	41	KED
⌊	**Ni**	**62**	**0.026**	ug/L	0.039	148	6	11	57	KED
⌈	**Cu**	**63**	**-0.007**	ug/L	0.002	26	46	24	26	KED
⌊	**Cu**	**65**	**-0.011**	ug/L	0.001	11	30	13	15	KED
⌈	**Zn**	**66**	**-0.051**	ug/L	0.017	33	35	14	45	KED
⌊	**Zn**	**67**	**-0.038**	ug/L	0.055	145	6	4	89	KED
⌈	**As**	**75**	**0.011**	ug/L	0.005	45	7	9	7	KED
⌊	**Se**	**78**	**-0.027**	ug/L	0.086	317	14	13	10	KED
	Y	**89**		ug/L			287925	286699	0	Standard
	Kr	**83**		ug/L			53	53	19	Standard
⌈>	**In-1**	**115**		ug/L			7687	7508	1	KED
⌈	**Cd**	**111**	**-0.012**	ug/L	0.002	19	4	1	43	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.002	25	7	3	34	KED
⌈>	**In**	**115**		ug/L			427037	419721	1	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.001	311	100	94	14	Standard
⌈	**Ba**	**135**	**-0.015**	ug/L	0.001	5	78	19	17	Standard
⌊	**Ba**	**137**	**-0.016**	ug/L	0.001	4	142	30	16	Standard
⌈>	**Tb**	**159**		ug/L			675781	661696	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	32	179	116	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:09:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				38749	0	Standard
	Cl	**37**		ug/L				4373298	0	Standard
⎡>	**Sc**	**45**		ug/L				544532	2	Standard
⎢	**Cr**	**52**		ug/L				15553	1	Standard
⎣	**Cr**	**53**		ug/L				269	1	Standard
⎡>	**Ge**	**72**		ug/L				26846	0	KED
⎢	**Cu**	**63**		ug/L				27	28	KED
⎢	**Cu**	**65**		ug/L				13	69	KED
⎢	**Zn**	**66**		ug/L				22	24	KED
⎢	**Zn**	**67**		ug/L				3	86	KED
⎣	**As**	**75**		ug/L				6	4	KED
	Y	**89**		ug/L				285357	0	Standard
	Kr	**83**		ug/L				53	21	Standard
⎡>	**In-1**	**115**		ug/L				7783	3	KED
⎢	**Cd**	**111**		ug/L				3	41	KED
⎣	**Cd**	**114**		ug/L				5	67	KED
⎡>	**In**	**115**		ug/L				420460	0	Standard
⎣	**Ag**	**107**		ug/L				62	16	Standard
⎡>	**Tb**	**159**		ug/L				655044	1	Standard
⎣	**Pb**	**208**		ug/L				75	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:14:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	38090	1	Standard
	Cl	**37**		ug/L			4373298	4577464	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	545775	1	Standard
|	**Cr**	**52**	**48.528**	ug/L	0.983	2	15553	965437	3	Standard
⌊	**Cr**	**53**	**48.032**	ug/L	0.311	0	269	110639	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26812	0	KED
|	**Cu**	**63**	**51.540**	ug/L	0.266	0	27	156393	1	KED
|	**Cu**	**65**	**51.032**	ug/L	0.859	1	13	77432	1	KED
|	**Zn**	**66**	**52.777**	ug/L	0.848	1	22	21590	1	KED
|	**Zn**	**67**	**49.918**	ug/L	1.646	3	3	3458	3	KED
⌊	**As**	**75**	**50.482**	ug/L	0.469	0	6	10440	0	KED
	Y	**89**		ug/L			285357	282671	2	Standard
	Kr	**83**		ug/L			53	63	19	Standard
⌈>	**In-1**	**115**		ug/L			7783	7197	1	KED
|	**Cd**	**111**	**50.185**	ug/L	0.807	1	3	11294	1	KED
⌊	**Cd**	**114**	**50.894**	ug/L	1.155	2	5	27850	1	KED
⌈>	**In**	**115**		ug/L			420460	412709	1	Standard
⌊	**Ag**	**107**	**49.501**	ug/L	0.808	1	62	689142	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	665426	1	Standard
⌊	**Pb**	**208**	**50.709**	ug/L	1.267	2	75	2269930	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:21:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	39198	0	Standard
	Cl	**37**		ug/L			4373298	4343461	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	536172	3	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.031	155	15553	15682	2	Standard
⌊	**Cr**	**53**	**-0.020**	ug/L	0.009	43	269	220	7	Standard
⌈>	**Ge**	**72**		ug/L			26846	26546	1	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	102	27	23	16	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	108	13	20	35	KED
|	**Zn**	**66**	**-0.018**	ug/L	0.008	41	22	14	19	KED
|	**Zn**	**67**	**0.020**	ug/L	0.059	301	3	5	78	KED
⌊	**As**	**75**	**0.014**	ug/L	0.008	56	6	9	15	KED
	Y	**89**		ug/L			285357	284792	1	Standard
	Kr	**83**		ug/L			53	52	2	Standard
⌈>	**In-1**	**115**		ug/L			7783	7757	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.008	105	3	1	124	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.003	50	5	1	123	KED
⌈>	**In**	**115**		ug/L			420460	427056	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	20	62	85	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	653515	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	61	75	101	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:26:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	58344	3	Standard
	Cl	**37**		ug/L			4373298	4263896	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	539725	4	Standard
|	**Cr**	**52**	**0.088**	ug/L	0.010	11	15553	17122	3	Standard
⌊	**Cr**	**53**	**0.015**	ug/L	0.006	40	269	302	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	26368	2	KED
|	**Cu**	**63**	**0.025**	ug/L	0.007	30	27	101	24	KED
|	**Cu**	**65**	**0.023**	ug/L	0.003	13	13	47	12	KED
|	**Zn**	**66**	**0.405**	ug/L	0.020	4	22	184	5	KED
|	**Zn**	**67**	**0.347**	ug/L	0.049	14	3	27	10	KED
⌊	**As**	**75**	**0.003**	ug/L	0.007	233	6	7	19	KED
	Y	**89**		ug/L			285357	285701	4	Standard
	Kr	**83**		ug/L			53	59	21	Standard
⌈>	**In-1**	**115**		ug/L			7783	7662	0	KED
|	**Cd**	**111**	**0.003**	ug/L	0.009	319	3	4	53	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	59	5	2	99	KED
⌈>	**In**	**115**		ug/L			420460	420772	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	7	62	77	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	646587	1	Standard
⌊	**Pb**	**208**	**0.036**	ug/L	0.003	7	75	1635	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:31:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53484	2	Standard
	Cl	**37**		ug/L			4373298	4386594	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	558105	1	Standard
|	**Cr**	**52**	**25.966**	ug/L	0.498	1	15553	535527	1	Standard
⌊	**Cr**	**53**	**25.514**	ug/L	0.088	0	269	60231	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27120	2	KED
|	**Cu**	**63**	**27.463**	ug/L	0.347	1	27	84289	1	KED
|	**Cu**	**65**	**26.770**	ug/L	0.670	2	13	41107	4	KED
|	**Zn**	**66**	**83.393**	ug/L	1.396	1	22	34502	3	KED
|	**Zn**	**67**	**75.694**	ug/L	1.250	1	3	5300	1	KED
⌊	**As**	**75**	**25.103**	ug/L	0.196	0	6	5255	2	KED
	Y	**89**		ug/L			285357	290322	0	Standard
	Kr	**83**		ug/L			53	66	28	Standard
⌈>	**In-1**	**115**		ug/L			7783	7965	1	KED
|	**Cd**	**111**	**25.705**	ug/L	0.249	0	3	6404	0	KED
⌊	**Cd**	**114**	**25.842**	ug/L	1.013	3	5	15652	2	KED
⌈>	**In**	**115**		ug/L			420460	428519	1	Standard
⌊	**Ag**	**107**	**26.572**	ug/L	0.397	1	62	384078	0	Standard
⌈>	**Tb**	**159**		ug/L			655044	672287	2	Standard
⌊	**Pb**	**208**	**27.254**	ug/L	0.735	2	75	1232199	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:35:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	48169	0	Standard
	Cl	37		ug/L			4373298	4350216	1	Standard
⌈>	Sc	45		ug/L			544532	538380	4	Standard
|	Cr	52	0.043	ug/L	0.014	32	15553	16207	3	Standard
⌊	Cr	53	-0.006	ug/L	0.009	145	269	252	3	Standard
⌈>	Ge	72		ug/L			26846	28199	1	KED
|	Cu	63	0.084	ug/L	0.003	3	27	297	4	KED
|	Cu	65	0.098	ug/L	0.010	9	13	170	10	KED
|	Zn	66	0.546	ug/L	0.041	7	22	257	5	KED
|	Zn	67	0.591	ug/L	0.046	7	3	46	6	KED
⌊	As	75	0.012	ug/L	0.015	128	6	9	33	KED
	Y	89		ug/L			285357	280586	4	Standard
	Kr	83		ug/L			53	48	17	Standard
⌈>	In-1	115		ug/L			7783	7833	3	KED
|	Cd	111	0.004	ug/L	0.010	256	3	4	53	KED
⌊	Cd	114	-0.002	ug/L	0.004	212	5	4	44	KED
⌈>	In	115		ug/L			420460	417966	4	Standard
⌊	Ag	107	0.004	ug/L	0.001	22	62	123	9	Standard
⌈>	Tb	159		ug/L			655044	659631	3	Standard
⌊	Pb	208	0.056	ug/L	0.001	2	75	2541	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:39:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	48048	1	Standard
	Cl	37		ug/L			4373298	4388511	5	Standard
⌈>	Sc	45		ug/L			544532	554424	1	Standard
|	Cr	52	24.971	ug/L	0.344	1	15553	512202	0	Standard
⌊	Cr	53	25.143	ug/L	0.669	2	269	58957	2	Standard
⌈>	Ge	72		ug/L			26846	27851	1	KED
|	Cu	63	26.906	ug/L	0.774	2	27	84802	1	KED
|	Cu	65	26.106	ug/L	0.472	1	13	41151	0	KED
|	Zn	66	83.282	ug/L	2.233	2	22	35371	1	KED
|	Zn	67	76.524	ug/L	2.580	3	3	5502	2	KED
⌊	As	75	24.940	ug/L	0.578	2	6	5360	1	KED
	Y	89		ug/L			285357	292300	1	Standard
	Kr	83		ug/L			53	58	24	Standard
⌈>	In-1	115		ug/L			7783	7574	1	KED
|	Cd	111	25.372	ug/L	0.645	2	3	6010	0	KED
⌊	Cd	114	25.419	ug/L	0.331	1	5	14645	2	KED
⌈>	In	115		ug/L			420460	430116	2	Standard
⌊	Ag	107	25.708	ug/L	0.722	2	62	372868	0	Standard
⌈>	Tb	159		ug/L			655044	665828	1	Standard
⌊	Pb	208	26.796	ug/L	0.226	0	75	1200306	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0328-17RE1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:44:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	59818	3	Standard
	Cl	37		ug/L			4373298	4538044	1	Standard
>	Sc	45		ug/L			544532	630380	4	Standard
	Cr	52	30.718	ug/L	0.356	1	15553	712212	3	Standard
	Cr	53	30.618	ug/L	0.333	1	269	81549	3	Standard
>	Ge	72		ug/L			26846	27906	2	KED
	Cu	63	625.494	ug/L	3.218	0	27	1975205	3	KED
	Cu	65	616.225	ug/L	7.088	1	13	973065	2	KED
	Zn	66	228.517	ug/L	3.276	1	22	97205	1	KED
	Zn	67	205.127	ug/L	3.059	1	3	14773	1	KED
	As	75	8.548	ug/L	0.146	1	6	1845	1	KED
	Y	89		ug/L			285357	467923	4	Standard
	Kr	83		ug/L			53	109	4	Standard
>	In-1	115		ug/L			7783	7679	2	KED
	Cd	111	0.393	ug/L	0.013	3	3	97	0	KED
	Cd	114	0.380	ug/L	0.045	11	5	227	8	KED
>	In	115		ug/L			420460	422799	1	Standard
	Ag	107	0.172	ug/L	0.010	6	62	2512	7	Standard
>	Tb	159		ug/L			655044	678316	4	Standard
	Pb	208	126.420	ug/L	2.040	1	75	5767564	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:52:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	52083	1	Standard
	Cl	37		ug/L			4373298	4550764	2	Standard
>	Sc	45		ug/L			544532	612694	2	Standard
	Cr	52	20.329	ug/L	0.225	1	15553	464034	1	Standard
	Cr	53	20.621	ug/L	0.348	1	269	53484	1	Standard
>	Ge	72		ug/L			26846	27804	2	KED
	Cu	63	508.763	ug/L	8.302	1	27	1600281	0	KED
	Cu	65	507.261	ug/L	19.060	3	13	797685	1	KED
	Zn	66	181.592	ug/L	4.780	2	22	76952	0	KED
	Zn	67	164.663	ug/L	9.360	5	3	11809	3	KED
	As	75	7.027	ug/L	0.136	1	6	1512	0	KED
	Y	89		ug/L			285357	424552	2	Standard
	Kr	83		ug/L			53	96	4	Standard
>	In-1	115		ug/L			7783	8047	0	KED
	Cd	111	0.234	ug/L	0.039	16	3	62	15	KED
	Cd	114	0.253	ug/L	0.046	18	5	160	17	KED
>	In	115		ug/L			420460	430369	2	Standard
	Ag	107	0.166	ug/L	0.008	5	62	2477	5	Standard
>	Tb	159		ug/L			655044	687911	1	Standard
	Pb	208	56.232	ug/L	0.929	1	75	2602104	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 20:56:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			38749	54071	0	Standard
	Cl		37		ug/L			4373298	4522522	1	Standard
>	Sc		45		ug/L			544532	601568	3	Standard
	Cr		52	55.490	ug/L	1.179	2	15553	1213691	1	Standard
	Cr		53	55.449	ug/L	0.626	1	269	140724	2	Standard
>	Ge		72		ug/L			26846	26612	2	KED
	Cu		63	722.262	ug/L	15.212	2	27	2174287	1	KED
	Cu		65	704.624	ug/L	10.041	1	13	1061278	3	KED
	Zn		66	345.772	ug/L	8.173	2	22	140217	0	KED
	Zn		67	315.466	ug/L	6.638	2	3	21660	0	KED
	As		75	33.178	ug/L	0.463	1	6	6811	1	KED
	Y		89		ug/L			285357	436240	1	Standard
	Kr		83		ug/L			53	104	4	Standard
>	In-1		115		ug/L			7783	7811	2	KED
	Cd		111	25.431	ug/L	0.099	0	3	6214	2	KED
	Cd		114	25.308	ug/L	0.774	3	5	15035	3	KED
>	In		115		ug/L			420460	414417	3	Standard
	Ag		107	22.208	ug/L	0.571	2	62	310498	4	Standard
>	Tb		159		ug/L			655044	668577	4	Standard
	Pb	STL	208	100.793	ug/L	3.673	3	75	4529260	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:01:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	54832	1	Standard
	Cl	37		ug/L			4373298	4588147	1	Standard
>	Sc	45		ug/L			544532	602445	3	Standard
	Cr	52	54.715	ug/L	1.595	2	15553	1198428	0	Standard
	Cr	53	55.188	ug/L	1.650	2	269	140190	0	Standard
>	Ge	72		ug/L			26846	26816	3	KED
	Cu	63	939.535	ug/L	18.345	1	27	2849594	1	KED
	Cu	65	928.960	ug/L	18.348	1	13	1409026	1	KED
	Zn	66	390.414	ug/L	10.384	2	22	159533	2	KED
	Zn	67	346.776	ug/L	6.381	1	3	23992	1	KED
	As	75	34.162	ug/L	0.429	1	6	7066	2	KED
	Y	89		ug/L			285357	450820	2	Standard
	Kr	83		ug/L			53	120	7	Standard
>	In-1	115		ug/L			7783	7527	2	KED
	Cd	111	26.005	ug/L	0.515	1	3	6124	3	KED
	Cd	114	25.560	ug/L	0.289	1	5	14635	3	KED
>	In	115		ug/L			420460	423255	2	Standard
	Ag	107	24.480	ug/L	0.381	1	62	349489	2	Standard
>	Tb	159		ug/L			655044	674491	1	Standard
	Pb STL	208	218.951	ug/L	2.288	1	75	9934463	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-02
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:06:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56723	2	Standard
	Cl	**37**		ug/L			4373298	4159333	0	Standard
⌈>	**Sc**	**45**		ug/L			544532	587519	0	Standard
|	**Cr**	**52**	**7.317**	ug/L	0.137	1	15553	170901	0	Standard
⌊	**Cr**	**53**	**7.251**	ug/L	0.060	0	269	18226	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	27201	1	KED
|	**Cu**	**63**	**18.141**	ug/L	0.091	0	27	55865	1	KED
|	**Cu**	**65**	**17.904**	ug/L	0.282	1	13	27570	1	KED
|	**Zn**	**66**	**37.705**	ug/L	0.130	0	22	15655	1	KED
|	**Zn**	**67**	**36.393**	ug/L	1.331	3	3	2557	2	KED
⌊	**As**	**75**	**3.565**	ug/L	0.196	5	6	754	3	KED
	Y	**89**		ug/L			285357	395815	0	Standard
	Kr	**83**		ug/L			53	96	6	Standard
⌈>	**In-1**	**115**		ug/L			7783	7594	1	KED
|	**Cd**	**111**	**0.187**	ug/L	0.008	4	3	47	4	KED
⌊	**Cd**	**114**	**0.165**	ug/L	0.018	10	5	100	9	KED
⌈>	**In**	**115**		ug/L			420460	413871	1	Standard
⌊	**Ag**	**107**	**0.226**	ug/L	0.010	4	62	3209	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	665549	2	Standard
⌊	**Pb**	**208**	**14.605**	ug/L	0.308	2	75	653828	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:11:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	40021	0	Standard
	Cl	**37**		ug/L			4373298	4088119	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	508293	4	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.005	110	15553	14442	3	Standard
⌊	**Cr**	**53**	**-0.039**	ug/L	0.007	19	269	169	12	Standard
⌈>	**Ge**	**72**		ug/L			26846	27199	1	KED
|	**Cu**	**63**	**0.013**	ug/L	0.005	37	27	66	20	KED
|	**Cu**	**65**	**0.013**	ug/L	0.005	42	13	33	25	KED
|	**Zn**	**66**	**0.030**	ug/L	0.034	112	22	34	39	KED
|	**Zn**	**67**	**0.035**	ug/L	0.056	158	3	6	62	KED
⌊	**As**	**75**	**0.002**	ug/L	0.010	498	6	7	26	KED
	Y	**89**		ug/L			285357	273023	2	Standard
	Kr	**83**		ug/L			53	50	30	Standard
⌈>	**In-1**	**115**		ug/L			7783	7546	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.005	153	3	4	26	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.008	826	5	4	96	KED
⌈>	**In**	**115**		ug/L			420460	404873	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	54	62	67	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	639841	3	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	17	75	211	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:15:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37536	1	Standard
	Cl	**37**		ug/L			4373298	4468572	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	526216	0	Standard
|	**Cr**	**52**	**50.086**	ug/L	0.096	0	15553	960071	0	Standard
⌊	**Cr**	**53**	**48.565**	ug/L	1.097	2	269	107850	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26172	0	KED
|	**Cu**	**63**	**50.453**	ug/L	1.540	3	27	149439	3	KED
|	**Cu**	**65**	**50.109**	ug/L	1.000	1	13	74224	1	KED
|	**Zn**	**66**	**50.529**	ug/L	0.840	1	22	20178	1	KED
|	**Zn**	**67**	**50.007**	ug/L	2.585	5	3	3381	5	KED
⌊	**As**	**75**	**49.682**	ug/L	1.024	2	6	10030	2	KED
	Y	**89**		ug/L			285357	280982	1	Standard
	Kr	**83**		ug/L			53	62	20	Standard
⌈>	**In-1**	**115**		ug/L			7783	7450	2	KED
|	**Cd**	**111**	**49.386**	ug/L	1.072	2	3	11504	2	KED
⌊	**Cd**	**114**	**49.889**	ug/L	0.552	1	5	28263	2	KED
⌈>	**In**	**115**		ug/L			420460	405587	0	Standard
⌊	**Ag**	**107**	**50.003**	ug/L	1.269	2	62	684015	1	Standard
⌈>	**Tb**	**159**		ug/L			655044	669733	2	Standard
⌊	**Pb**	**208**	**49.523**	ug/L	1.541	3	75	2230270	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:22:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36786	0	Standard
	Cl	**37**		ug/L			4373298	4128223	4	Standard
⌈>	**Sc**	**45**		ug/L			544532	495649	4	Standard
|	**Cr**	**52**	**-0.012**	ug/L	0.021	178	15553	13948	5	Standard
⌊	**Cr**	**53**	**-0.031**	ug/L	0.011	35	269	179	9	Standard
⌈>	**Ge**	**72**		ug/L			26846	25635	8	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	83	27	33	18	KED
|	**Cu**	**65**	**0.000**	ug/L	0.003	4036	13	13	28	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.015	71	22	13	49	KED
|	**Zn**	**67**	**-0.015**	ug/L	0.021	133	3	2	43	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.011	508	6	6	31	KED
	Y	**89**		ug/L			285357	260328	3	Standard
	Kr	**83**		ug/L			53	56	39	Standard
⌈>	**In-1**	**115**		ug/L			7783	7633	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.003	86	3	4	13	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.004	91	5	3	71	KED
⌈>	**In**	**115**		ug/L			420460	396829	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	60	62	85	16	Standard
⌈>	**Tb**	**159**		ug/L			655044	622410	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	75	111	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22K0328-17RE2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:29:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	41066	2	Standard
	Cl	**37**		ug/L			4373298	4040656	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	521480	4	Standard
|	**Cr**	**52**	**7.178**	ug/L	0.171	2	15553	149015	2	Standard
⌊	**Cr**	**53**	**6.972**	ug/L	0.061	0	269	15562	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	27101	1	KED
|	**Cu**	**63**	**132.008**	ug/L	2.047	1	27	404801	1	KED
|	**Cu**	**65**	**128.587**	ug/L	3.154	2	13	197202	2	KED
|	**Zn**	**66**	**48.286**	ug/L	1.349	2	22	19962	1	KED
|	**Zn**	**67**	**43.417**	ug/L	0.051	0	3	3040	1	KED
⌊	**As**	**75**	**1.807**	ug/L	0.051	2	6	384	3	KED
	Y	**89**		ug/L			285357	302337	2	Standard
	Kr	**83**		ug/L			53	55	19	Standard
⌈>	**In-1**	**115**		ug/L			7783	7683	2	KED
|	**Cd**	**111**	**0.052**	ug/L	0.023	43	3	15	35	KED
⌊	**Cd**	**114**	**0.081**	ug/L	0.024	30	5	52	25	KED
⌈>	**In**	**115**		ug/L			420460	403033	2	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	5	62	516	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	643082	3	Standard
⌊	**Pb**	**208**	**26.174**	ug/L	0.638	2	75	1131774	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-DUP2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:35:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	40896	0	Standard
	Cl	37		ug/L			4373298	4209745	1	Standard
>	Sc	45		ug/L			544532	544099	1	Standard
	Cr	52	4.555	ug/L	0.105	2	15553	104382	0	Standard
	Cr	53	4.627	ug/L	0.056	1	269	10870	2	Standard
>	Ge	72		ug/L			26846	27314	0	KED
	Cu	63	106.361	ug/L	1.782	1	27	328728	1	KED
	Cu	65	103.471	ug/L	0.440	0	13	159937	0	KED
	Zn	66	38.887	ug/L	0.321	0	22	16213	1	KED
	Zn	67	35.086	ug/L	3.256	9	3	2475	8	KED
	As	75	1.434	ug/L	0.021	1	6	308	1	KED
	Y	89		ug/L			285357	311440	1	Standard
	Kr	83		ug/L			53	55	36	Standard
>	In-1	115		ug/L			7783	7335	0	KED
	Cd	111	0.044	ug/L	0.004	8	3	13	7	KED
	Cd	114	0.058	ug/L	0.007	12	5	37	10	KED
>	In	115		ug/L			420460	417332	0	Standard
	Ag	107	0.034	ug/L	0.003	7	62	538	6	Standard
>	Tb	159		ug/L			655044	662956	1	Standard
	Pb	208	11.947	ug/L	0.077	0	75	532912	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:40:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		**13**		ug/L			38749	39206	1	Standard
	Cl		**37**		ug/L			4373298	4159145	1	Standard
⌈>	**Sc**		**45**		ug/L			544532	532512	2	Standard
|	**Cr**		**52**	**12.346**	ug/L	0.273	2	15553	250877	2	Standard
⌊	**Cr**		**53**	**12.477**	ug/L	0.306	2	269	28224	0	Standard
⌈>	**Ge**		**72**		ug/L			26846	26192	3	KED
|	**Cu**		**63**	**147.418**	ug/L	3.298	2	27	436861	3	KED
|	**Cu**	STL	**65**	**147.599**	ug/L	1.055	0	13	218801	4	KED
|	**Zn**		**66**	**75.691**	ug/L	0.641	0	22	30244	4	KED
|	**Zn**		**67**	**67.692**	ug/L	0.763	1	3	4578	2	KED
⌊	**As**		**75**	**7.086**	ug/L	0.043	0	6	1437	3	KED
	Y		**89**		ug/L			285357	308191	3	Standard
	Kr		**83**		ug/L			53	43	12	Standard
⌈>	**In-1**		**115**		ug/L			7783	7669	0	KED
|	**Cd**		**111**	**5.352**	ug/L	0.085	1	3	1286	1	KED
⌊	**Cd**		**114**	**5.364**	ug/L	0.158	2	5	3134	3	KED
⌈>	**In**		**115**		ug/L			420460	409085	1	Standard
⌊	**Ag**		**107**	**4.642**	ug/L	0.090	1	62	64122	3	Standard
⌈>	**Tb**		**159**		ug/L			655044	660032	0	Standard
⌊	**Pb**		**208**	**20.323**	ug/L	0.216	1	75	902548	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0224-MSD2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:44:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		**13**		ug/L			38749	40441	0	Standard
	Cl		**37**		ug/L			4373298	4154293	0	Standard
⌈>	**Sc**		**45**		ug/L			544532	532392	1	Standard
|	**Cr**		**52**	**12.089**	ug/L	0.164	1	15553	245978	1	Standard
⌊	**Cr**		**53**	**11.987**	ug/L	0.180	1	269	27130	1	Standard
⌈>	**Ge**		**72**		ug/L			26846	26927	1	KED
|	**Cu**		**63**	**193.480**	ug/L	1.283	0	27	589500	1	KED
|	**Cu**	STL	**65**	**190.848**	ug/L	3.571	1	13	290760	1	KED
|	**Zn**		**66**	**81.654**	ug/L	2.093	2	22	33524	0	KED
|	**Zn**		**67**	**75.581**	ug/L	1.074	1	3	5254	0	KED
⌊	**As**		**75**	**7.058**	ug/L	0.061	0	6	1471	1	KED
	Y		**89**		ug/L			285357	304519	1	Standard
	Kr		**83**		ug/L			53	59	23	Standard
⌈>	**In-1**		**115**		ug/L			7783	7192	0	KED
|	**Cd**		**111**	**5.338**	ug/L	0.010	0	3	1203	0	KED
⌊	**Cd**		**114**	**5.468**	ug/L	0.079	1	5	2995	0	KED
⌈>	**In**		**115**		ug/L			420460	404357	1	Standard
⌊	**Ag**		**107**	**5.268**	ug/L	0.109	2	62	71900	1	Standard
⌈>	**Tb**		**159**		ug/L			655044	651761	1	Standard
⌊	**Pb**		**208**	**44.437**	ug/L	1.189	2	75	1948094	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0329-07
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:50:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52306	1	Standard
	Cl	**37**		ug/L			4373298	4081899	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	548187	5	Standard
|	**Cr**	**52**	**7.168**	ug/L	0.230	3	15553	156410	3	Standard
⌊	**Cr**	**53**	**7.206**	ug/L	0.184	2	269	16891	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	25393	2	KED
|	**Cu**	**63**	**11.641**	ug/L	0.408	3	27	33458	1	KED
|	**Cu**	**65**	**11.573**	ug/L	0.095	0	13	16642	1	KED
|	**Zn**	**66**	**28.810**	ug/L	0.627	2	22	11169	1	KED
|	**Zn**	**67**	**27.355**	ug/L	1.159	4	3	1795	3	KED
⌊	**As**	**75**	**3.151**	ug/L	0.108	3	6	623	2	KED
	Y	**89**		ug/L			285357	347765	6	Standard
	Kr	**83**		ug/L			53	85	5	Standard
⌈>	**In-1**	**115**		ug/L			7783	6922	1	KED
|	**Cd**	**111**	**0.163**	ug/L	0.028	16	3	38	14	KED
⌊	**Cd**	**114**	**0.143**	ug/L	0.012	8	5	80	7	KED
⌈>	**In**	**115**		ug/L			420460	388044	6	Standard
⌊	**Ag**	**107**	**0.102**	ug/L	0.004	4	62	1388	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	626347	5	Standard
⌊	**Pb**	**208**	**9.590**	ug/L	0.373	3	75	403678	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:54:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56654	0	Standard
	Cl	**37**		ug/L			4373298	4140206	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	565534	3	Standard
|	**Cr**	**52**	**6.880**	ug/L	0.101	1	15553	155647	3	Standard
⌊	**Cr**	**53**	**6.903**	ug/L	0.140	2	269	16715	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	26727	2	KED
|	**Cu**	**63**	**11.309**	ug/L	0.277	2	27	34218	1	KED
|	**Cu**	**65**	**11.224**	ug/L	0.162	1	13	16985	1	KED
|	**Zn**	**66**	**29.153**	ug/L	0.564	1	22	11898	3	KED
|	**Zn**	**67**	**27.713**	ug/L	1.286	4	3	1913	2	KED
⌊	**As**	**75**	**3.031**	ug/L	0.089	2	6	630	0	KED
	Y	**89**		ug/L			285357	372250	1	Standard
	Kr	**83**		ug/L			53	82	4	Standard
⌈>	**In-1**	**115**		ug/L			7783	7042	1	KED
|	**Cd**	**111**	**0.134**	ug/L	0.025	18	3	32	16	KED
⌊	**Cd**	**114**	**0.119**	ug/L	0.021	17	5	68	15	KED
⌈>	**In**	**115**		ug/L			420460	402781	2	Standard
⌊	**Ag**	**107**	**0.127**	ug/L	0.004	3	62	1788	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	655706	4	Standard
⌊	**Pb**	**208**	**9.556**	ug/L	0.304	3	75	421264	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 21:58:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	49665	1	Standard
	Cl	37		ug/L			4373298	4147913	2	Standard
>	Sc	45		ug/L			544532	566335	2	Standard
	Cr	52	17.391	ug/L	0.146	0	15553	369320	2	Standard
	Cr	53	17.603	ug/L	0.033	0	269	42253	2	Standard
>	Ge	72		ug/L			26846	26383	1	KED
	Cu	63	22.722	ug/L	0.522	2	27	67847	1	KED
	Cu	65	21.723	ug/L	0.080	0	13	32443	1	KED
	Zn	66	64.950	ug/L	1.280	1	22	26143	3	KED
	Zn	67	60.522	ug/L	1.350	2	3	4124	2	KED
	As	75	13.473	ug/L	0.228	1	6	2746	1	KED
	Y	89		ug/L			285357	376628	2	Standard
	Kr	83		ug/L			53	106	14	Standard
>	In-1	115		ug/L			7783	7429	1	KED
	Cd	111	10.553	ug/L	0.254	2	3	2453	0	KED
	Cd	114	10.505	ug/L	0.509	4	5	5936	3	KED
>	In	115		ug/L			420460	406320	1	Standard
	Ag	107	6.759	ug/L	0.286	4	62	92685	4	Standard
>	Tb	159		ug/L			655044	649924	2	Standard
	Pb	208	21.579	ug/L	0.231	1	75	943455	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:03:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	51634	0	Standard
	Cl	37		ug/L			4373298	4163448	3	Standard
>	Sc	45		ug/L			544532	579776	2	Standard
	Cr	52	16.288	ug/L	0.447	2	15553	355071	2	Standard
	Cr	53	16.376	ug/L	0.205	1	269	40264	3	Standard
>	Ge	72		ug/L			26846	26560	1	KED
	Cu	63	21.273	ug/L	0.148	0	27	63961	1	KED
	Cu	65	21.046	ug/L	0.238	1	13	31646	2	KED
	Zn	66	61.193	ug/L	0.490	0	22	24793	0	KED
	Zn	67	57.157	ug/L	3.039	5	3	3919	4	KED
	As	75	13.207	ug/L	0.243	1	6	2710	1	KED
	Y	89		ug/L			285357	378405	2	Standard
	Kr	83		ug/L			53	97	16	Standard
>	In-1	115		ug/L			7783	7502	2	KED
	Cd	111	10.307	ug/L	0.486	4	3	2419	3	KED
	Cd	114	10.440	ug/L	0.165	1	5	5959	0	KED
>	In	115		ug/L			420460	408727	0	Standard
	Ag	107	6.457	ug/L	0.171	2	62	89082	2	Standard
>	Tb	159		ug/L			655044	661492	3	Standard
	Pb	208	17.934	ug/L	0.192	1	75	798005	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKL0608-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:07:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54508	1	Standard
	Cl	**37**		ug/L			4373298	4094284	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	553666	1	Standard
|	**Cr**	**52**	**29.162**	ug/L	0.821	2	15553	594670	2	Standard
⌊	**Cr**	**53**	**28.887**	ug/L	0.221	0	269	67610	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25823	1	KED
|	**Cu**	**63**	**36.999**	ug/L	0.476	1	27	108123	0	KED
|	**Cu**	**65**	**36.150**	ug/L	0.384	1	13	52839	2	KED
|	**Zn**	**66**	**108.472**	ug/L	1.184	1	22	42713	0	KED
|	**Zn**	**67**	**99.032**	ug/L	3.509	3	3	6602	3	KED
⌊	**As**	**75**	**27.259**	ug/L	0.296	1	6	5432	1	KED
	Y	**89**		ug/L			285357	352534	1	Standard
	Kr	**83**		ug/L			53	78	23	Standard
⌈>	**In-1**	**115**		ug/L			7783	7346	2	KED
|	**Cd**	**111**	**24.525**	ug/L	0.598	2	3	5633	0	KED
⌊	**Cd**	**114**	**24.686**	ug/L	0.837	3	5	13786	1	KED
⌈>	**In**	**115**		ug/L			420460	388260	1	Standard
⌊	**Ag**	**107**	**24.730**	ug/L	0.294	1	62	323895	0	Standard
⌈>	**Tb**	**159**		ug/L			655044	639770	1	Standard
⌊	**Pb**	**208**	**34.257**	ug/L	0.350	1	75	1474423	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:12:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36839	1	Standard
	Cl	**37**		ug/L			4373298	4095249	4	Standard
⌈>	**Sc**	**45**		ug/L			544532	530483	1	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.027	407	15553	15023	2	Standard
⌊	**Cr**	**53**	**-0.049**	ug/L	0.007	14	269	153	11	Standard
⌈>	**Ge**	**72**		ug/L			26846	26635	0	KED
|	**Cu**	**63**	**0.001**	ug/L	0.003	577	27	29	29	KED
|	**Cu**	**65**	**0.003**	ug/L	0.007	192	13	19	51	KED
|	**Zn**	**66**	**0.011**	ug/L	0.013	111	22	26	18	KED
|	**Zn**	**67**	**0.038**	ug/L	0.043	114	3	6	45	KED
⌊	**As**	**75**	**0.006**	ug/L	0.003	58	6	7	9	KED
	Y	**89**		ug/L			285357	270822	1	Standard
	Kr	**83**		ug/L			53	52	20	Standard
⌈>	**In-1**	**115**		ug/L			7783	7660	2	KED
|	**Cd**	**111**	**0.000**	ug/L	0.006	4051	3	3	41	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.010	8951	5	5	104	KED
⌈>	**In**	**115**		ug/L			420460	408643	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	45	62	89	13	Standard
⌈>	**Tb**	**159**		ug/L			655044	653541	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	24	75	186	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:16:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37304	1	Standard
	Cl	**37**		ug/L			4373298	4355176	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	514960	1	Standard
|	**Cr**	**52**	**49.230**	ug/L	0.760	1	15553	923596	0	Standard
⌊	**Cr**	**53**	**48.806**	ug/L	0.881	1	269	106065	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27456	2	KED
|	**Cu**	**63**	**49.496**	ug/L	1.074	2	27	153765	1	KED
|	**Cu**	**65**	**49.781**	ug/L	0.719	1	13	77339	0	KED
|	**Zn**	**66**	**50.474**	ug/L	2.107	4	22	21133	2	KED
|	**Zn**	**67**	**50.097**	ug/L	0.545	1	3	3553	2	KED
⌊	**As**	**75**	**49.587**	ug/L	1.253	2	6	10498	0	KED
	Y	**89**		ug/L			285357	271859	1	Standard
	Kr	**83**		ug/L			53	67	23	Standard
⌈>	**In-1**	**115**		ug/L			7783	7770	1	KED
|	**Cd**	**111**	**49.405**	ug/L	1.261	2	3	12004	2	KED
⌊	**Cd**	**114**	**48.909**	ug/L	0.552	1	5	28897	0	KED
⌈>	**In**	**115**		ug/L			420460	400172	0	Standard
⌊	**Ag**	**107**	**49.600**	ug/L	2.125	4	62	669463	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	653597	1	Standard
⌊	**Pb**	**208**	**49.392**	ug/L	0.668	1	75	2171614	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:23:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37227	2	Standard
	Cl	**37**		ug/L			4373298	4064930	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	517403	1	Standard
|	**Cr**	**52**	**-0.013**	ug/L	0.012	91	15553	14542	0	Standard
⌊	**Cr**	**53**	**-0.040**	ug/L	0.006	15	269	170	7	Standard
⌈>	**Ge**	**72**		ug/L			26846	26453	1	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.003	224	27	24	31	KED
|	**Cu**	**65**	**0.001**	ug/L	0.004	843	13	14	45	KED
|	**Zn**	**66**	**-0.018**	ug/L	0.005	26	22	14	15	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.031	352	3	3	69	KED
⌊	**As**	**75**	**0.011**	ug/L	0.014	125	6	9	32	KED
	Y	**89**		ug/L			285357	268155	3	Standard
	Kr	**83**		ug/L			53	53	8	Standard
⌈>	**In-1**	**115**		ug/L			7783	7549	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.007	394	3	3	43	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	254	5	4	66	KED
⌈>	**In**	**115**		ug/L			420460	405009	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	44	62	97	16	Standard
⌈>	**Tb**	**159**		ug/L			655044	648893	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	7	75	132	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-03
Sample Dil Factor: 50
DEL
Comments:
Sample Date/Time: Thursday, January 12, 2023 22:28:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52486	3	Standard
	Cl	**37**		ug/L			4373298	4185966	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	595746	1	Standard
|	**Cr**	**52**	**6.949**	ug/L	0.202	2	15553	165404	1	Standard
⌊	**Cr**	**53**	**6.894**	ug/L	0.063	0	269	17585	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	26789	0	KED
|	**Cu**	**63**	**16.441**	ug/L	0.185	1	27	49865	1	KED
|	**Cu**	**65**	**16.110**	ug/L	0.467	2	13	24435	3	KED
|	**Zn**	**66**	**34.697**	ug/L	0.753	2	22	14188	1	KED
|	**Zn**	**67**	**34.001**	ug/L	0.357	1	3	2354	1	KED
⌊	**As**	**75**	**3.372**	ug/L	0.023	0	6	703	1	KED
	Y	**89**		ug/L			285357	395348	2	Standard
	Kr	**83**		ug/L			53	105	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7484	0	KED
|	**Cd**	**111**	**0.159**	ug/L	0.019	12	3	40	11	KED
⌊	**Cd**	**114**	**0.158**	ug/L	0.020	12	5	95	12	KED
⌈>	**In**	**115**		ug/L			420460	408149	2	Standard
⌊	**Ag**	**107**	**0.155**	ug/L	0.006	4	62	2197	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	664935	1	Standard
⌊	**Pb**	**208**	**12.429**	ug/L	0.419	3	75	555848	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-04
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:32:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	52091	0	Standard
	Cl	**37**		ug/L			4373298	4125301	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	579430	2	Standard
|	**Cr**	**52**	**6.637**	ug/L	0.184	2	15553	154367	0	Standard
⌊	**Cr**	**53**	**6.679**	ug/L	0.086	1	269	16579	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	27136	1	KED
|	**Cu**	**63**	**14.598**	ug/L	0.320	2	27	44839	0	KED
|	**Cu**	**65**	**14.559**	ug/L	0.492	3	13	22360	1	KED
|	**Zn**	**66**	**29.722**	ug/L	0.436	1	22	12315	2	KED
|	**Zn**	**67**	**29.111**	ug/L	0.311	1	3	2042	2	KED
⌊	**As**	**75**	**2.767**	ug/L	0.039	1	6	585	1	KED
	Y	**89**		ug/L			285357	387793	2	Standard
	Kr	**83**		ug/L			53	89	3	Standard
⌈>	**In-1**	**115**		ug/L			7783	7550	2	KED
|	**Cd**	**111**	**0.119**	ug/L	0.051	42	3	31	37	KED
⌊	**Cd**	**114**	**0.116**	ug/L	0.015	13	5	72	14	KED
⌈>	**In**	**115**		ug/L			420460	403752	1	Standard
⌊	**Ag**	**107**	**0.119**	ug/L	0.005	4	62	1681	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	657238	1	Standard
⌊	**Pb**	**208**	**11.588**	ug/L	0.119	1	75	512408	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-05
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:36:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54529	3	Standard
	Cl	**37**		ug/L			4373298	4125689	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	619919	2	Standard
|	**Cr**	**52**	**4.836**	ug/L	0.088	1	15553	125184	1	Standard
⌊	**Cr**	**53**	**4.812**	ug/L	0.141	2	269	12864	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	27151	0	KED
|	**Cu**	**63**	**11.973**	ug/L	0.117	0	27	36813	1	KED
|	**Cu**	**65**	**11.559**	ug/L	0.283	2	13	17771	2	KED
|	**Zn**	**66**	**23.455**	ug/L	0.500	2	22	9728	1	KED
|	**Zn**	**67**	**22.482**	ug/L	0.560	2	3	1579	2	KED
⌊	**As**	**75**	**2.667**	ug/L	0.072	2	6	565	2	KED
	Y	**89**		ug/L			285357	424982	1	Standard
	Kr	**83**		ug/L			53	103	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7880	2	KED
|	**Cd**	**111**	**0.095**	ug/L	0.042	43	3	26	37	KED
⌊	**Cd**	**114**	**0.106**	ug/L	0.020	18	5	69	15	KED
⌈>	**In**	**115**		ug/L			420460	402296	2	Standard
⌊	**Ag**	**107**	**0.081**	ug/L	0.001	1	62	1158	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	667523	2	Standard
⌊	**Pb**	**208**	**6.754**	ug/L	0.112	1	75	303322	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-06
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:41:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56804	1	Standard
	Cl	**37**		ug/L			4373298	4059046	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	588587	1	Standard
|	**Cr**	**52**	**6.401**	ug/L	0.122	1	15553	151889	0	Standard
⌊	**Cr**	**53**	**6.278**	ug/L	0.090	1	269	15851	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26556	1	KED
|	**Cu**	**63**	**11.701**	ug/L	0.125	1	27	35186	1	KED
|	**Cu**	**65**	**11.603**	ug/L	0.232	2	13	17451	3	KED
|	**Zn**	**66**	**25.377**	ug/L	0.432	1	22	10295	2	KED
|	**Zn**	**67**	**24.536**	ug/L	1.090	4	3	1684	3	KED
⌊	**As**	**75**	**2.348**	ug/L	0.044	1	6	487	1	KED
	Y	**89**		ug/L			285357	387027	1	Standard
	Kr	**83**		ug/L			53	100	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	6923	3	KED
|	**Cd**	**111**	**0.102**	ug/L	0.033	32	3	25	26	KED
⌊	**Cd**	**114**	**0.102**	ug/L	0.015	15	5	58	14	KED
⌈>	**In**	**115**		ug/L			420460	409233	1	Standard
⌊	**Ag**	**107**	**0.074**	ug/L	0.003	3	62	1077	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	664330	1	Standard
⌊	**Pb**	**208**	**6.613**	ug/L	0.085	1	75	295621	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-07
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:45:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	60680	1	Standard
	Cl	**37**		ug/L			4373298	4035321	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	579426	4	Standard
|	**Cr**	**52**	**6.015**	ug/L	0.158	2	15553	141424	3	Standard
⌊	**Cr**	**53**	**5.985**	ug/L	0.047	0	269	14885	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	27245	0	KED
|	**Cu**	**63**	**11.035**	ug/L	0.049	0	27	34044	0	KED
|	**Cu**	**65**	**10.972**	ug/L	0.277	2	13	16927	1	KED
|	**Zn**	**66**	**23.826**	ug/L	0.801	3	22	9915	2	KED
|	**Zn**	**67**	**23.410**	ug/L	0.640	2	3	1649	2	KED
⌊	**As**	**75**	**2.593**	ug/L	0.137	5	6	551	4	KED
	Y	**89**		ug/L			285357	379005	2	Standard
	Kr	**83**		ug/L			53	79	22	Standard
⌈>	**In-1**	**115**		ug/L			7783	7739	3	KED
|	**Cd**	**111**	**0.071**	ug/L	0.002	3	3	20	2	KED
⌊	**Cd**	**114**	**0.099**	ug/L	0.034	34	5	63	29	KED
⌈>	**In**	**115**		ug/L			420460	398872	2	Standard
⌊	**Ag**	**107**	**0.075**	ug/L	0.004	4	62	1064	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	654145	4	Standard
⌊	**Pb**	**208**	**6.833**	ug/L	0.156	2	75	300594	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0383-08
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:49:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56095	1	Standard
	Cl	**37**		ug/L			4373298	4039382	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	593524	3	Standard
|	**Cr**	**52**	**6.557**	ug/L	0.201	3	15553	156402	2	Standard
⌊	**Cr**	**53**	**6.721**	ug/L	0.202	3	269	17077	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26847	2	KED
|	**Cu**	**63**	**12.300**	ug/L	0.048	0	27	37391	2	KED
|	**Cu**	**65**	**12.453**	ug/L	0.258	2	13	18928	1	KED
|	**Zn**	**66**	**25.064**	ug/L	0.397	1	22	10276	1	KED
|	**Zn**	**67**	**23.814**	ug/L	0.927	3	3	1653	3	KED
⌊	**As**	**75**	**2.853**	ug/L	0.083	2	6	596	2	KED
	Y	**89**		ug/L			285357	390968	2	Standard
	Kr	**83**		ug/L			53	91	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7682	3	KED
|	**Cd**	**111**	**0.083**	ug/L	0.010	11	3	23	10	KED
⌊	**Cd**	**114**	**0.097**	ug/L	0.002	2	5	62	4	KED
⌈>	**In**	**115**		ug/L			420460	407703	3	Standard
⌊	**Ag**	**107**	**0.059**	ug/L	0.005	8	62	874	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	654443	3	Standard
⌊	**Pb**	**208**	**6.672**	ug/L	0.168	2	75	293704	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-01
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:54:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54389	1	Standard
	Cl	**37**		ug/L			4373298	4146586	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	584545	0	Standard
|	**Cr**	**52**	**8.267**	ug/L	0.250	3	15553	189993	3	Standard
⌊	**Cr**	**53**	**8.266**	ug/L	0.050	0	269	20633	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26591	1	KED
|	**Cu**	**63**	**14.592**	ug/L	0.282	1	27	43935	2	KED
|	**Cu**	**65**	**14.409**	ug/L	0.106	0	13	21693	0	KED
|	**Zn**	**66**	**30.495**	ug/L	0.469	1	22	12380	1	KED
|	**Zn**	**67**	**30.572**	ug/L	0.175	0	3	2101	1	KED
⌊	**As**	**75**	**3.567**	ug/L	0.149	4	6	737	3	KED
	Y	**89**		ug/L			285357	382481	1	Standard
	Kr	**83**		ug/L			53	114	7	Standard
⌈>	**In-1**	**115**		ug/L			7783	7481	2	KED
|	**Cd**	**111**	**0.242**	ug/L	0.048	19	3	60	19	KED
⌊	**Cd**	**114**	**0.235**	ug/L	0.044	18	5	139	16	KED
⌈>	**In**	**115**		ug/L			420460	406173	1	Standard
⌊	**Ag**	**107**	**0.238**	ug/L	0.010	4	62	3321	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	653525	2	Standard
⌊	**Pb**	**208**	**11.402**	ug/L	0.210	1	75	501224	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-02
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 22:58:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56879	3	Standard
	Cl	**37**		ug/L			4373298	4074313	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	602582	1	Standard
|	**Cr**	**52**	**7.837**	ug/L	0.180	2	15553	186517	1	Standard
⌊	**Cr**	**53**	**7.826**	ug/L	0.153	1	269	20149	0	Standard
⌈>	**Ge**	**72**		ug/L			26846	27005	2	KED
|	**Cu**	**63**	**15.025**	ug/L	0.291	1	27	45927	0	KED
|	**Cu**	**65**	**14.810**	ug/L	0.190	1	13	22642	1	KED
|	**Zn**	**66**	**29.168**	ug/L	0.059	0	22	12028	2	KED
|	**Zn**	**67**	**27.448**	ug/L	1.384	5	3	1915	3	KED
⌊	**As**	**75**	**3.653**	ug/L	0.051	1	6	767	3	KED
	Y	**89**		ug/L			285357	437650	1	Standard
	Kr	**83**		ug/L			53	102	3	Standard
⌈>	**In-1**	**115**		ug/L			7783	7893	2	KED
|	**Cd**	**111**	**0.237**	ug/L	0.035	14	3	62	15	KED
⌊	**Cd**	**114**	**0.223**	ug/L	0.020	8	5	139	6	KED
⌈>	**In**	**115**		ug/L			420460	410369	2	Standard
⌊	**Ag**	**107**	**0.142**	ug/L	0.004	2	62	2027	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	666554	0	Standard
⌊	**Pb**	**208**	**6.842**	ug/L	0.107	1	75	306881	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-03
Sample Dil Factor: 50
DEL
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:02:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56229	0	Standard
	Cl	**37**		ug/L			4373298	4006597	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	580872	3	Standard
|	**Cr**	**52**	**7.519**	ug/L	0.129	1	15553	173192	3	Standard
⌊	**Cr**	**53**	**7.432**	ug/L	0.183	2	269	18457	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	27450	1	KED
|	**Cu**	**63**	**16.587**	ug/L	0.225	1	27	51545	1	KED
|	**Cu**	**65**	**16.180**	ug/L	0.321	1	13	25142	1	KED
|	**Zn**	**66**	**33.754**	ug/L	0.623	1	22	14143	1	KED
|	**Zn**	**67**	**33.382**	ug/L	0.296	0	3	2368	0	KED
⌊	**As**	**75**	**3.150**	ug/L	0.107	3	6	673	3	KED
	Y	**89**		ug/L			285357	380605	1	Standard
	Kr	**83**		ug/L			53	103	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7655	1	KED
|	**Cd**	**111**	**0.155**	ug/L	0.015	9	3	40	9	KED
⌊	**Cd**	**114**	**0.141**	ug/L	0.006	4	5	87	4	KED
⌈>	**In**	**115**		ug/L			420460	404767	0	Standard
⌊	**Ag**	**107**	**0.130**	ug/L	0.003	2	62	1841	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	656289	2	Standard
⌊	**Pb**	**208**	**14.388**	ug/L	0.242	1	75	635403	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:07:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36339	0	Standard
	Cl	**37**		ug/L			4373298	3831932	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	495567	3	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.014	198	15553	14021	2	Standard
⌊	**Cr**	**53**	**-0.045**	ug/L	0.008	17	269	150	8	Standard
⌈>	**Ge**	**72**		ug/L			26846	25394	4	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	59	27	36	13	KED
|	**Cu**	**65**	**0.009**	ug/L	0.003	29	13	26	12	KED
|	**Zn**	**66**	**0.006**	ug/L	0.027	475	22	23	48	KED
|	**Zn**	**67**	**0.068**	ug/L	0.113	167	3	8	96	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	112	6	5	19	KED
	Y	**89**		ug/L			285357	265361	3	Standard
	Kr	**83**		ug/L			53	69	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7707	1	KED
|	**Cd**	**111**	**0.000**	ug/L	0.002	1559	3	3	15	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	95	5	3	48	KED
⌈>	**In**	**115**		ug/L			420460	390605	3	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.002	1056	62	56	36	Standard
⌈>	**Tb**	**159**		ug/L			655044	635599	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	3	75	134	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:11:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	35526	3	Standard
	Cl	**37**		ug/L			4373298	4224985	5	Standard
⌈>	**Sc**	**45**		ug/L			544532	479870	9	Standard
|	**Cr**	**52**	**50.916**	ug/L	2.183	4	15553	887365	5	Standard
⌊	**Cr**	**53**	**50.089**	ug/L	1.999	3	269	101173	6	Standard
⌈>	**Ge**	**72**		ug/L			26846	26435	2	KED
|	**Cu**	**63**	**50.109**	ug/L	0.178	0	27	149908	2	KED
|	**Cu**	**65**	**49.720**	ug/L	0.803	1	13	74410	4	KED
|	**Zn**	**66**	**52.399**	ug/L	0.353	0	22	21137	3	KED
|	**Zn**	**67**	**51.286**	ug/L	0.590	1	3	3502	3	KED
⌊	**As**	**75**	**50.454**	ug/L	0.887	1	6	10287	2	KED
	Y	**89**		ug/L			285357	248763	11	Standard
	Kr	**83**		ug/L			53	62	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	7471	3	KED
|	**Cd**	**111**	**50.358**	ug/L	1.400	2	3	11758	1	KED
⌊	**Cd**	**114**	**51.071**	ug/L	1.096	2	5	29000	1	KED
⌈>	**In**	**115**		ug/L			420460	379388	10	Standard
⌊	**Ag**	**107**	**50.865**	ug/L	2.691	5	62	648784	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	608103	11	Standard
⌊	**Pb**	**208**	**52.527**	ug/L	4.446	8	75	2135289	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:18:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36729	1	Standard
	Cl	**37**		ug/L			4373298	3919579	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	509496	1	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.030	1597	15553	14581	2	Standard
⌊	**Cr**	**53**	**-0.046**	ug/L	0.003	6	269	153	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	26377	1	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	48	27	36	10	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	30	13	21	10	KED
|	**Zn**	**66**	**-0.009**	ug/L	0.009	108	22	18	21	KED
|	**Zn**	**67**	**0.038**	ug/L	0.015	40	3	6	17	KED
⌊	**As**	**75**	**0.007**	ug/L	0.006	84	6	8	15	KED
	Y	**89**		ug/L			285357	255912	1	Standard
	Kr	**83**		ug/L			53	54	10	Standard
⌈>	**In-1**	**115**		ug/L			7783	7324	2	KED
|	**Cd**	**111**	**0.005**	ug/L	0.005	96	3	4	24	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.008	166	5	2	176	KED
⌈>	**In**	**115**		ug/L			420460	402465	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	19	62	80	4	Standard
⌈>	**Tb**	**159**		ug/L			655044	630364	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	12	75	128	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:22:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	49652	0	Standard
	Cl	**37**		ug/L			4373298	4047237	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	531657	0	Standard
|	**Cr**	**52**	**0.045**	ug/L	0.024	54	15553	16043	3	Standard
⌊	**Cr**	**53**	**-0.035**	ug/L	0.003	8	269	184	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	26760	2	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	51	27	37	12	KED
|	**Cu**	**65**	**0.004**	ug/L	0.004	86	13	20	28	KED
|	**Zn**	**66**	**0.076**	ug/L	0.046	60	22	53	37	KED
|	**Zn**	**67**	**0.076**	ug/L	0.110	144	3	8	81	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.011	236	6	5	40	KED
	Y	**89**		ug/L			285357	283575	2	Standard
	Kr	**83**		ug/L			53	55	13	Standard
⌈>	**In-1**	**115**		ug/L			7783	7670	3	KED
|	**Cd**	**111**	**0.010**	ug/L	0.015	153	3	5	60	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	98	5	3	50	KED
⌈>	**In**	**115**		ug/L			420460	407471	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	38	62	82	11	Standard
⌈>	**Tb**	**159**		ug/L			655044	655656	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	10	75	311	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:27:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	43263	2	Standard
	Cl	**37**		ug/L			4373298	3942299	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	512874	2	Standard
|	**Cr**	**52**	**25.967**	ug/L	0.150	0	15553	492182	2	Standard
⌊	**Cr**	**53**	**25.451**	ug/L	0.393	1	269	55211	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26880	1	KED
|	**Cu**	**63**	**27.556**	ug/L	0.565	2	27	83818	0	KED
|	**Cu**	**65**	**27.604**	ug/L	0.686	2	13	41992	1	KED
|	**Zn**	**66**	**83.947**	ug/L	1.221	1	22	34422	3	KED
|	**Zn**	**67**	**78.106**	ug/L	0.884	1	3	5421	1	KED
⌊	**As**	**75**	**25.722**	ug/L	0.300	1	6	5336	2	KED
	Y	**89**		ug/L			285357	267401	3	Standard
	Kr	**83**		ug/L			53	59	6	Standard
⌈>	**In-1**	**115**		ug/L			7783	7470	4	KED
|	**Cd**	**111**	**26.312**	ug/L	0.414	1	3	6145	3	KED
⌊	**Cd**	**114**	**26.798**	ug/L	0.740	2	5	15212	2	KED
⌈>	**In**	**115**		ug/L			420460	398732	4	Standard
⌊	**Ag**	**107**	**26.234**	ug/L	0.772	2	62	352580	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	628792	2	Standard
⌊	**Pb**	**208**	**27.408**	ug/L	0.137	0	75	1159486	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-04
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:31:38

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53466	1	Standard
	Cl	**37**		ug/L			4373298	4025362	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	585019	3	Standard
|	**Cr**	**52**	**6.321**	ug/L	0.038	0	15553	149297	3	Standard
⌊	**Cr**	**53**	**6.320**	ug/L	0.082	1	269	15858	4	Standard
⌈>	**Ge**	**72**		ug/L			26846	26891	0	KED
|	**Cu**	**63**	**14.874**	ug/L	0.275	1	27	45285	2	KED
|	**Cu**	**65**	**14.779**	ug/L	0.577	3	13	22500	3	KED
|	**Zn**	**66**	**31.637**	ug/L	0.079	0	22	12989	0	KED
|	**Zn**	**67**	**30.864**	ug/L	0.846	2	3	2145	2	KED
⌊	**As**	**75**	**3.145**	ug/L	0.038	1	6	658	1	KED
	Y	**89**		ug/L			285357	379820	4	Standard
	Kr	**83**		ug/L			53	95	2	Standard
⌈>	**In-1**	**115**		ug/L			7783	7578	0	KED
|	**Cd**	**111**	**0.137**	ug/L	0.011	7	3	35	6	KED
⌊	**Cd**	**114**	**0.154**	ug/L	0.004	2	5	94	2	KED
⌈>	**In**	**115**		ug/L			420460	400979	4	Standard
⌊	**Ag**	**107**	**0.114**	ug/L	0.006	5	62	1599	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	650205	1	Standard
⌊	**Pb**	**208**	**13.279**	ug/L	0.197	1	75	581033	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-05
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:35:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	56806	1	Standard
	Cl	**37**		ug/L			4373298	4115784	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	620696	4	Standard
|	**Cr**	**52**	**6.940**	ug/L	0.137	1	15553	172114	2	Standard
⌊	**Cr**	**53**	**6.857**	ug/L	0.194	2	269	18217	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26952	2	KED
|	**Cu**	**63**	**16.011**	ug/L	0.051	0	27	48858	3	KED
|	**Cu**	**65**	**16.017**	ug/L	0.297	1	13	24438	2	KED
|	**Zn**	**66**	**31.845**	ug/L	0.188	0	22	13103	2	KED
|	**Zn**	**67**	**30.898**	ug/L	1.174	3	3	2154	6	KED
⌊	**As**	**75**	**2.995**	ug/L	0.067	2	6	628	0	KED
	Y	**89**		ug/L			285357	399458	0	Standard
	Kr	**83**		ug/L			53	83	5	Standard
⌈>	**In-1**	**115**		ug/L			7783	7773	2	KED
|	**Cd**	**111**	**0.128**	ug/L	0.009	7	3	34	7	KED
⌊	**Cd**	**114**	**0.121**	ug/L	0.016	13	5	77	10	KED
⌈>	**In**	**115**		ug/L			420460	408767	3	Standard
⌊	**Ag**	**107**	**0.116**	ug/L	0.007	6	62	1661	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	664814	0	Standard
⌊	**Pb**	**208**	**10.509**	ug/L	0.145	1	75	470122	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-06
Sample Dil Factor: 50
DEL
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:40:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	59828	1	Standard
	Cl	**37**		ug/L			4373298	4038712	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	598763	1	Standard
|	**Cr**	**52**	**7.257**	ug/L	0.101	1	15553	172897	1	Standard
⌊	**Cr**	**53**	**7.051**	ug/L	0.129	1	269	18071	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26975	2	KED
|	**Cu**	**63**	**14.796**	ug/L	0.045	0	27	45188	1	KED
|	**Cu**	**65**	**14.492**	ug/L	0.389	2	13	22130	2	KED
|	**Zn**	**66**	**26.811**	ug/L	0.380	1	22	11043	1	KED
|	**Zn**	**67**	**26.938**	ug/L	0.940	3	3	1878	3	KED
⌊	**As**	**75**	**2.868**	ug/L	0.119	4	6	603	2	KED
	Y	**89**		ug/L			285357	395776	1	Standard
	Kr	**83**		ug/L			53	109	20	Standard
⌈>	**In-1**	**115**		ug/L			7783	7439	0	KED
|	**Cd**	**111**	**0.068**	ug/L	0.015	22	3	19	18	KED
⌊	**Cd**	**114**	**0.086**	ug/L	0.010	12	5	53	10	KED
⌈>	**In**	**115**		ug/L			420460	407337	0	Standard
⌊	**Ag**	**107**	**0.092**	ug/L	0.008	8	62	1325	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	667255	1	Standard
⌊	**Pb**	**208**	**6.726**	ug/L	0.059	0	75	302000	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-07
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:44:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	59067	1	Standard
	Cl	**37**		ug/L			4373298	4029906	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	568459	1	Standard
|	**Cr**	**52**	**6.125**	ug/L	0.088	1	15553	141068	0	Standard
⌊	**Cr**	**53**	**6.104**	ug/L	0.018	0	269	14890	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26771	4	KED
|	**Cu**	**63**	**14.547**	ug/L	0.153	1	27	44080	3	KED
|	**Cu**	**65**	**14.386**	ug/L	0.199	1	13	21803	4	KED
|	**Zn**	**66**	**31.250**	ug/L	0.427	1	22	12770	3	KED
|	**Zn**	**67**	**31.464**	ug/L	0.589	1	3	2176	3	KED
⌊	**As**	**75**	**3.325**	ug/L	0.034	1	6	692	3	KED
	Y	**89**		ug/L			285357	380537	0	Standard
	Kr	**83**		ug/L			53	109	8	Standard
⌈>	**In-1**	**115**		ug/L			7783	7610	0	KED
|	**Cd**	**111**	**0.132**	ug/L	0.028	21	3	34	18	KED
⌊	**Cd**	**114**	**0.143**	ug/L	0.008	5	5	88	6	KED
⌈>	**In**	**115**		ug/L			420460	394964	1	Standard
⌊	**Ag**	**107**	**0.117**	ug/L	0.005	4	62	1623	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	643597	3	Standard
⌊	**Pb**	**208**	**10.807**	ug/L	0.265	2	75	467762	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-08
Sample Dil Factor: 50
DEL
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:49:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	54798	1	Standard
	Cl	**37**		ug/L			4373298	3982832	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	551445	5	Standard
|	**Cr**	**52**	**6.150**	ug/L	0.052	0	15553	137308	5	Standard
⌊	**Cr**	**53**	**6.127**	ug/L	0.076	1	269	14498	5	Standard
⌈>	**Ge**	**72**		ug/L			26846	25958	1	KED
|	**Cu**	**63**	**13.542**	ug/L	0.064	0	27	39803	0	KED
|	**Cu**	**65**	**13.341**	ug/L	0.023	0	13	19609	1	KED
|	**Zn**	**66**	**27.645**	ug/L	0.439	1	22	10959	2	KED
|	**Zn**	**67**	**26.390**	ug/L	0.521	1	3	1771	2	KED
⌊	**As**	**75**	**3.032**	ug/L	0.134	4	6	613	3	KED
	Y	**89**		ug/L			285357	369798	2	Standard
	Kr	**83**		ug/L			53	106	28	Standard
⌈>	**In-1**	**115**		ug/L			7783	6932	2	KED
|	**Cd**	**111**	**0.139**	ug/L	0.025	18	3	33	18	KED
⌊	**Cd**	**114**	**0.128**	ug/L	0.004	3	5	72	3	KED
⌈>	**In**	**115**		ug/L			420460	384182	2	Standard
⌊	**Ag**	**107**	**0.105**	ug/L	0.005	4	62	1413	5	Standard
⌈>	**Tb**	**159**		ug/L			655044	629662	5	Standard
⌊	**Pb**	**208**	**10.782**	ug/L	0.311	2	75	456311	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0417-09
Sample Dil Factor: 50
Comments:

DEL

Sample Date/Time: Thursday, January 12, 2023 23:53:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	51162	3	Standard
	Cl	**37**		ug/L			4373298	3817844	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	533813	3	Standard
|	**Cr**	**52**	**6.480**	ug/L	0.148	2	15553	139238	1	Standard
⌊	**Cr**	**53**	**6.428**	ug/L	0.158	2	269	14705	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25497	0	KED
|	**Cu**	**63**	**10.900**	ug/L	0.173	1	27	31475	2	KED
|	**Cu**	**65**	**10.705**	ug/L	0.126	1	13	15458	1	KED
|	**Zn**	**66**	**25.172**	ug/L	0.197	0	22	9803	0	KED
|	**Zn**	**67**	**24.199**	ug/L	1.199	4	3	1595	4	KED
⌊	**As**	**75**	**2.537**	ug/L	0.084	3	6	505	3	KED
	Y	**89**		ug/L			285357	349814	1	Standard
	Kr	**83**		ug/L			53	84	18	Standard
⌈>	**In-1**	**115**		ug/L			7783	7504	3	KED
|	**Cd**	**111**	**0.088**	ug/L	0.031	35	3	23	27	KED
⌊	**Cd**	**114**	**0.086**	ug/L	0.012	13	5	54	13	KED
⌈>	**In**	**115**		ug/L			420460	380063	2	Standard
⌊	**Ag**	**107**	**0.058**	ug/L	0.003	5	62	802	3	Standard
⌈>	**Tb**	**159**		ug/L			655044	617271	3	Standard
⌊	**Pb**	**208**	**6.085**	ug/L	0.207	3	75	252609	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0109-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, January 12, 2023 23:58:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	53472	2	Standard
	Cl	**37**		ug/L			4373298	4251725	0	Standard
⌈>	**Sc**	**45**		ug/L			544532	525307	1	Standard
|	**Cr**	**52**	**0.664**	ug/L	0.007	1	15553	27504	2	Standard
⌊	**Cr**	**53**	**0.670**	ug/L	0.002	0	269	1742	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	26076	1	KED
|	**Cu**	**63**	**0.847**	ug/L	0.005	0	27	2526	1	KED
|	**Cu**	**65**	**0.851**	ug/L	0.041	4	13	1269	6	KED
|	**Zn**	**66**	**90.466**	ug/L	1.574	1	22	35984	3	KED
|	**Zn**	**67**	**79.556**	ug/L	2.594	3	3	5355	2	KED
⌊	**As**	**75**	**0.179**	ug/L	0.022	12	6	42	9	KED
	Y	**89**		ug/L			285357	277517	2	Standard
	Kr	**83**		ug/L			53	52	24	Standard
⌈>	**In-1**	**115**		ug/L			7783	7716	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.006	42	3	6	20	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	152	5	8	56	KED
⌈>	**In**	**115**		ug/L			420460	408183	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	65	62	91	24	Standard
⌈>	**Tb**	**159**		ug/L			655044	651123	2	Standard
⌊	**Pb**	**208**	**0.209**	ug/L	0.007	3	75	9224	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:02:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36360	2	Standard
	Cl	**37**		ug/L			4373298	3997174	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	498419	2	Standard
|	**Cr**	**52**	**0.025**	ug/L	0.016	64	15553	14681	3	Standard
⌊	**Cr**	**53**	**-0.044**	ug/L	0.009	19	269	153	9	Standard
⌈>	**Ge**	**72**		ug/L			26846	26912	2	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	130	27	34	22	KED
|	**Cu**	**65**	**0.003**	ug/L	0.002	68	13	19	20	KED
|	**Zn**	**66**	**0.035**	ug/L	0.023	64	22	36	26	KED
|	**Zn**	**67**	**0.018**	ug/L	0.016	89	3	5	21	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	429	6	7	17	KED
	Y	**89**		ug/L			285357	261002	5	Standard
	Kr	**83**		ug/L			53	50	27	Standard
⌈>	**In-1**	**115**		ug/L			7783	7450	2	KED
|	**Cd**	**111**	**0.002**	ug/L	0.011	568	3	3	66	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	643	5	5	44	KED
⌈>	**In**	**115**		ug/L			420460	396586	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	174	62	50	28	Standard
⌈>	**Tb**	**159**		ug/L			655044	626483	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	15	75	102	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:06:44
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36672	0	Standard
	Cl	**37**		ug/L			4373298	4316291	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	511301	2	Standard
|	**Cr**	**52**	**49.012**	ug/L	0.382	0	15553	913204	2	Standard
⌊	**Cr**	**53**	**48.314**	ug/L	0.583	1	269	104271	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	26405	2	KED
|	**Cu**	**63**	**50.561**	ug/L	0.825	1	27	151067	1	KED
|	**Cu**	**65**	**49.197**	ug/L	0.297	0	13	73529	2	KED
|	**Zn**	**66**	**51.137**	ug/L	0.663	1	22	20599	0	KED
|	**Zn**	**67**	**50.578**	ug/L	2.748	5	3	3449	5	KED
⌊	**As**	**75**	**50.144**	ug/L	0.397	0	6	10213	2	KED
	Y	**89**		ug/L			285357	272897	1	Standard
	Kr	**83**		ug/L			53	72	16	Standard
⌈>	**In-1**	**115**		ug/L			7783	7333	3	KED
|	**Cd**	**111**	**49.644**	ug/L	0.938	1	3	11380	2	KED
⌊	**Cd**	**114**	**50.823**	ug/L	1.091	2	5	28329	2	KED
⌈>	**In**	**115**		ug/L			420460	393449	1	Standard
⌊	**Ag**	**107**	**50.091**	ug/L	1.157	2	62	664666	1	Standard
⌈>	**Tb**	**159**		ug/L			655044	641370	1	Standard
⌊	**Pb**	**208**	**50.311**	ug/L	0.479	0	75	2170796	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:13:50
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36826	3	Standard
	Cl	**37**		ug/L			4373298	3987550	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	504336	2	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.010	133	15553	14271	3	Standard
⌊	**Cr**	**53**	**-0.046**	ug/L	0.008	16	269	152	9	Standard
⌈>	**Ge**	**72**		ug/L			26846	27248	1	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	94	27	33	14	KED
|	**Cu**	**65**	**0.002**	ug/L	0.004	263	13	16	37	KED
|	**Zn**	**66**	**0.004**	ug/L	0.021	575	22	24	37	KED
|	**Zn**	**67**	**0.017**	ug/L	0.041	238	3	5	57	KED
⌊	**As**	**75**	**0.007**	ug/L	0.007	100	6	8	18	KED
	Y	**89**		ug/L			285357	264099	3	Standard
	Kr	**83**		ug/L			53	50	11	Standard
⌈>	**In-1**	**115**		ug/L			7783	7648	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.000	3	3	1		KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.004	71	5	2	94	KED
⌈>	**In**	**115**		ug/L			420460	398241	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.002	111	62	80	28	Standard
⌈>	**Tb**	**159**		ug/L			655044	630972	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	75	133	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0617-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, January 13, 2023 00:18:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	47064	3	Standard
	Cl	**37**		ug/L			4373298	4534693	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	549368	1	Standard
|	**Cr**	**52**	**0.237**	ug/L	0.016	6	15553	20368	3	Standard
⌊	**Cr**	**53**	**0.833**	ug/L	0.019	2	269	2197	1	Standard
⌈>	**Ge**	**72**		ug/L			26846	25886	1	KED
|	**Cu**	**63**	**1.130**	ug/L	0.037	3	27	3337	3	KED
|	**Cu**	**65**	**1.144**	ug/L	0.041	3	13	1689	4	KED
|	**Zn**	**66**	**7.873**	ug/L	0.158	2	22	3127	1	KED
|	**Zn**	**67**	**7.977**	ug/L	0.539	6	3	536	6	KED
⌊	**As**	**75**	**0.368**	ug/L	0.024	6	6	80	6	KED
	Y	**89**		ug/L			285357	274074	0	Standard
	Kr	**83**		ug/L			53	71	11	Standard
⌈>	**In-1**	**115**		ug/L			7783	7297	1	KED
|	**Cd**	**111**	**0.068**	ug/L	0.015	22	3	18	19	KED
⌊	**Cd**	**114**	**0.067**	ug/L	0.008	11	5	42	10	KED
⌈>	**In**	**115**		ug/L			420460	392136	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	46	62	94	18	Standard
⌈>	**Tb**	**159**		ug/L			655044	634971	3	Standard
⌊	**Pb**	**208**	**0.109**	ug/L	0.004	3	75	4746	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:22:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	72977	0	Standard
	Cl	37		ug/L			4373298	4143195	1	Standard
>	Sc	45		ug/L			544532	658125	3	Standard
	Cr	52	14.868	ug/L	0.120	0	15553	369611	2	Standard
	Cr	53	14.847	ug/L	0.145	0	269	41460	2	Standard
>	Ge	72		ug/L			26846	26175	1	KED
	Cu	63	39.536	ug/L	0.772	1	27	117105	1	KED
	Cu	65	39.264	ug/L	0.608	1	13	58163	0	KED
	Zn	66	80.232	ug/L	1.222	1	22	32028	1	KED
	Zn	67	75.426	ug/L	2.439	3	3	5098	2	KED
	As	75	7.887	ug/L	0.201	2	6	1597	1	KED
	Y	89		ug/L			285357	530306	3	Standard
	Kr	83		ug/L			53	178	10	Standard
>	In-1	115		ug/L			7783	7541	3	KED
	Cd	111	0.356	ug/L	0.006	1	3	87	3	KED
	Cd	114	0.358	ug/L	0.018	4	5	210	1	KED
>	In	115		ug/L			420460	385122	2	Standard
	Ag	107	0.369	ug/L	0.001	0	62	4846	2	Standard
>	Tb	159		ug/L			655044	642915	0	Standard
	Pb	208	30.676	ug/L	0.698	2	75	1326826	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:26:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	71590	4	Standard
	Cl	37		ug/L			4373298	4069742	2	Standard
>	Sc	45		ug/L			544532	670780	2	Standard
|	Cr	52	15.483	ug/L	0.553	3	15553	391494	3	Standard
|	Cr	53	15.301	ug/L	0.300	1	269	43543	2	Standard
>	Ge	72		ug/L			26846	26063	1	KED
|	Cu	63	34.663	ug/L	0.509	1	27	102253	2	KED
|	Cu	65	34.424	ug/L	0.643	1	13	50775	1	KED
|	Zn	66	71.864	ug/L	1.503	2	22	28564	1	KED
|	Zn	67	69.749	ug/L	1.463	2	3	4694	1	KED
|	As	75	6.920	ug/L	0.216	3	6	1396	3	KED
	Y	89		ug/L			285357	560482	2	Standard
	Kr	83		ug/L			53	203	15	Standard
>	In-1	115		ug/L			7783	7444	2	KED
|	Cd	111	0.233	ug/L	0.027	11	3	57	10	KED
|	Cd	114	0.247	ug/L	0.022	8	5	145	8	KED
>	In	115		ug/L			420460	389388	1	Standard
|	Ag	107	0.206	ug/L	0.003	1	62	2765	2	Standard
>	Tb	159		ug/L			655044	650082	2	Standard
|	Pb	208	18.511	ug/L	0.362	1	75	809383	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:31:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	66749	1	Standard
	Cl	37		ug/L			4373298	4230078	1	Standard
>	Sc	45		ug/L			544532	673159	1	Standard
	Cr	52	17.045	ug/L	0.208	1	15553	430687	2	Standard
	Cr	53	17.143	ug/L	0.269	1	269	48915	1	Standard
>	Ge	72		ug/L			26846	25002	1	KED
	Cu	63	49.632	ug/L	0.630	1	27	140441	1	KED
	Cu	65	50.140	ug/L	1.284	2	13	70946	2	KED
	Zn	66	92.130	ug/L	0.417	0	22	35130	1	KED
	Zn	67	90.547	ug/L	1.009	1	3	5846	2	KED
	As	75	8.720	ug/L	0.228	2	6	1686	2	KED
	Y	89		ug/L			285357	553448	1	Standard
	Kr	83		ug/L			53	200	6	Standard
>	In-1	115		ug/L			7783	6861	1	KED
	Cd	111	0.443	ug/L	0.016	3	3	98	4	KED
	Cd	114	0.386	ug/L	0.022	5	5	206	6	KED
>	In	115		ug/L			420460	395930	2	Standard
	Ag	107	0.382	ug/L	0.012	3	62	5162	3	Standard
>	Tb	159		ug/L			655044	649479	2	Standard
	Pb	208	37.301	ug/L	0.941	2	75	1629254	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:35:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	72845	1	Standard
	Cl	37		ug/L			4373298	4164828	2	Standard
>	Sc	45		ug/L			544532	657705	1	Standard
	Cr	52	15.822	ug/L	0.092	0	15553	391904	0	Standard
	Cr	53	15.461	ug/L	0.038	0	269	43139	1	Standard
>	Ge	72		ug/L			26846	25421	1	KED
	Cu	63	37.476	ug/L	0.659	1	27	107808	0	KED
	Cu	65	37.760	ug/L	0.522	1	13	54324	0	KED
	Zn	66	70.565	ug/L	2.072	2	22	27357	2	KED
	Zn	67	68.488	ug/L	3.076	4	3	4494	2	KED
	As	75	7.334	ug/L	0.336	4	6	1443	3	KED
	Y	89		ug/L			285357	545124	1	Standard
	Kr	83		ug/L			53	198	4	Standard
>	In-1	115		ug/L			7783	6778	2	KED
	Cd	111	0.216	ug/L	0.050	23	3	48	18	KED
	Cd	114	0.250	ug/L	0.020	8	5	133	5	KED
>	In	115		ug/L			420460	383859	0	Standard
	Ag	107	0.173	ug/L	0.004	2	62	2292	3	Standard
>	Tb	159		ug/L			655044	643852	0	Standard
	Pb	208	18.395	ug/L	0.363	1	75	796810	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:39:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	67396	2	Standard
	Cl	37		ug/L			4373298	4006597	0	Standard
>	Sc	45		ug/L			544532	643355	0	Standard
|	Cr	52	16.637	ug/L	0.076	0	15553	402189	1	Standard
|	Cr	53	16.616	ug/L	0.097	0	269	45327	1	Standard
>	Ge	72		ug/L			26846	26711	1	KED
|	Cu	63	40.962	ug/L	1.045	2	27	123822	2	KED
|	Cu	65	40.188	ug/L	0.810	2	13	60753	2	KED
|	Zn	66	73.945	ug/L	0.940	1	22	30131	2	KED
|	Zn	67	74.393	ug/L	3.497	4	3	5133	5	KED
|	As	75	7.826	ug/L	0.136	1	6	1618	1	KED
	Y	89		ug/L			285357	532549	0	Standard
	Kr	83		ug/L			53	182	7	Standard
>	In-1	115		ug/L			7783	7533	3	KED
|	Cd	111	0.313	ug/L	0.047	14	3	77	15	KED
|	Cd	114	0.351	ug/L	0.060	17	5	206	17	KED
>	In	115		ug/L			420460	380510	2	Standard
|	Ag	107	0.296	ug/L	0.011	3	62	3851	2	Standard
>	Tb	159		ug/L			655044	635723	2	Standard
|	Pb	208	23.069	ug/L	0.369	1	75	986534	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:44:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	70639	2	Standard
	Cl	37		ug/L			4373298	4019679	1	Standard
⌈>	Sc	45		ug/L			544532	632138	1	Standard
|	Cr	52	19.085	ug/L	0.190	0	15553	450607	1	Standard
⌊	Cr	53	18.801	ug/L	0.116	0	269	50348	1	Standard
⌈>	Ge	72		ug/L			26846	26652	1	KED
|	Cu	63	37.555	ug/L	0.360	0	27	113273	1	KED
|	Cu	65	37.503	ug/L	0.703	1	13	56561	1	KED
|	Zn	66	75.292	ug/L	1.421	1	22	30613	3	KED
|	Zn	67	73.483	ug/L	0.956	1	3	5058	3	KED
⌊	As	75	8.520	ug/L	0.158	1	6	1756	0	KED
	Y	89		ug/L			285357	537396	2	Standard
	Kr	83		ug/L			53	187	11	Standard
⌈>	In-1	115		ug/L			7783	7214	1	KED
|	Cd	111	0.773	ug/L	0.040	5	3	177	6	KED
⌊	Cd	114	0.742	ug/L	0.047	6	5	412	6	KED
⌈>	In	115		ug/L			420460	362560	2	Standard
⌊	Ag	107	0.597	ug/L	0.019	3	62	7351	0	Standard
⌈>	Tb	159		ug/L			655044	610940	2	Standard
⌊	Pb	208	23.192	ug/L	0.561	2	75	952953	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0459-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:48:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38749	69329	3	Standard
	Cl	37		ug/L			4373298	4096844	2	Standard
>	Sc	45		ug/L			544532	655849	0	Standard
	Cr	52	14.483	ug/L	0.420	2	15553	359271	1	Standard
	Cr	53	14.667	ug/L	0.379	2	269	40821	1	Standard
>	Ge	72		ug/L			26846	25212	1	KED
	Cu	63	28.624	ug/L	0.432	1	27	81679	1	KED
	Cu	65	28.235	ug/L	0.782	2	13	40290	2	KED
	Zn	66	59.738	ug/L	2.456	4	22	22972	3	KED
	Zn	67	59.815	ug/L	0.816	1	3	3895	1	KED
	As	75	7.277	ug/L	0.157	2	6	1420	2	KED
	Y	89		ug/L			285357	517667	1	Standard
	Kr	83		ug/L			53	173	12	Standard
>	In-1	115		ug/L			7783	7219	3	KED
	Cd	111	0.185	ug/L	0.043	23	3	45	23	KED
	Cd	114	0.199	ug/L	0.020	10	5	114	12	KED
>	In	115		ug/L			420460	386149	1	Standard
	Ag	107	0.141	ug/L	0.005	3	62	1897	4	Standard
>	Tb	159		ug/L			655044	634912	3	Standard
	Pb	208	13.707	ug/L	0.381	2	75	585256	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0114-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 00:53:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	62477	0	Standard
	Cl	**37**		ug/L			4373298	4204356	1	Standard
⌈>	**Sc**	**45**		ug/L			544532	610805	2	Standard
|	**Cr**	**52**	**24.594**	ug/L	0.502	2	15553	555950	1	Standard
⌊	**Cr**	**53**	**24.467**	ug/L	0.478	1	269	63226	3	Standard
⌈>	**Ge**	**72**		ug/L			26846	26862	2	KED
|	**Cu**	**63**	**14.099**	ug/L	0.185	1	27	42872	1	KED
|	**Cu**	**65**	**13.970**	ug/L	0.214	1	13	21241	1	KED
|	**Zn**	**66**	**28.106**	ug/L	1.284	4	22	11520	2	KED
|	**Zn**	**67**	**26.574**	ug/L	0.438	1	3	1846	4	KED
⌊	**As**	**75**	**2.921**	ug/L	0.062	2	6	611	1	KED
	Y	**89**		ug/L			285357	439271	1	Standard
	Kr	**83**		ug/L			53	107	17	Standard
⌈>	**In-1**	**115**		ug/L			7783	6728	7	KED
|	**Cd**	**111**	**1.831**	ug/L	0.103	5	3	387	5	KED
⌊	**Cd**	**114**	**1.884**	ug/L	0.090	4	5	966	3	KED
⌈>	**In**	**115**		ug/L			420460	392864	0	Standard
⌊	**Ag**	**107**	**0.077**	ug/L	0.002	2	62	1085	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	639905	0	Standard
⌊	**Pb**	**208**	**2.081**	ug/L	0.034	1	75	89673	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 00:57:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	38762	1	Standard
	Cl	**37**		ug/L			4373298	4156920	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	530557	2	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.034	203	15553	14829	4	Standard
⌊	**Cr**	**53**	**-0.051**	ug/L	0.007	13	269	148	10	Standard
⌈>	**Ge**	**72**		ug/L			26846	26467	1	KED
|	**Cu**	**63**	**0.005**	ug/L	0.001	26	27	43	11	KED
|	**Cu**	**65**	**0.002**	ug/L	0.001	50	13	17	11	KED
|	**Zn**	**66**	**0.001**	ug/L	0.022	2190	22	22	38	KED
|	**Zn**	**67**	**0.028**	ug/L	0.054	192	3	5	66	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	448	6	6	15	KED
	Y	**89**		ug/L			285357	274458	1	Standard
	Kr	**83**		ug/L			53	43	24	Standard
⌈>	**In-1**	**115**		ug/L			7783	7291	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.011	486	3	3	66	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.005	104	5	2	118	KED
⌈>	**In**	**115**		ug/L			420460	403342	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	73	62	53	7	Standard
⌈>	**Tb**	**159**		ug/L			655044	634978	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	29	75	119	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:01:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	36941	2	Standard
	Cl	**37**		ug/L			4373298	4241056	3	Standard
⌈>	**Sc**	**45**		ug/L			544532	491854	1	Standard
|	**Cr**	**52**	**48.909**	ug/L	0.365	0	15553	876567	1	Standard
⌊	**Cr**	**53**	**48.932**	ug/L	0.186	0	269	101579	2	Standard
⌈>	**Ge**	**72**		ug/L			26846	27005	1	KED
|	**Cu**	**63**	**50.299**	ug/L	0.608	1	27	153705	0	KED
|	**Cu**	**65**	**50.446**	ug/L	1.057	2	13	77085	0	KED
|	**Zn**	**66**	**51.460**	ug/L	1.028	1	22	21201	1	KED
|	**Zn**	**67**	**49.722**	ug/L	3.731	7	3	3466	6	KED
⌊	**As**	**75**	**50.507**	ug/L	0.836	1	6	10519	0	KED
	Y	**89**		ug/L			285357	258083	3	Standard
	Kr	**83**		ug/L			53	61	11	Standard
⌈>	**In-1**	**115**		ug/L			7783	7585	4	KED
|	**Cd**	**111**	**49.198**	ug/L	1.406	2	3	11662	2	KED
⌊	**Cd**	**114**	**49.843**	ug/L	1.539	3	5	28724	1	KED
⌈>	**In**	**115**		ug/L			420460	374286	2	Standard
⌊	**Ag**	**107**	**50.397**	ug/L	1.078	2	62	636219	2	Standard
⌈>	**Tb**	**159**		ug/L			655044	611327	2	Standard
⌊	**Pb**	**208**	**51.361**	ug/L	1.233	2	75	2111582	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:09:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38749	37649	1	Standard
	Cl	**37**		ug/L			4373298	3929096	2	Standard
⌈>	**Sc**	**45**		ug/L			544532	490369	3	Standard
|	**Cr**	**52**	**0.013**	ug/L	0.020	157	15553	14225	2	Standard
⌊	**Cr**	**53**	**-0.048**	ug/L	0.006	12	269	143	5	Standard
⌈>	**Ge**	**72**		ug/L			26846	25652	3	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	181	27	29	16	KED
|	**Cu**	**65**	**0.001**	ug/L	0.002	294	13	14	27	KED
|	**Zn**	**66**	**-0.011**	ug/L	0.018	167	22	17	44	KED
|	**Zn**	**67**	**-0.017**	ug/L	0.015	90	3	2	43	KED
⌊	**As**	**75**	**0.010**	ug/L	0.017	164	6	8	40	KED
	Y	**89**		ug/L			285357	254848	2	Standard
	Kr	**83**		ug/L			53	57	13	Standard
⌈>	**In-1**	**115**		ug/L			7783	7394	1	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	705	3	3	34	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.009	238	5	7	67	KED
⌈>	**In**	**115**		ug/L			420460	384427	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	50	62	86	15	Standard
⌈>	**Tb**	**159**		ug/L			655044	608130	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	8	75	142	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:13:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				37442	0	Standard
	Cl	**37**		ug/L				3935892	2	Standard
⌈>	**Sc**	**45**		ug/L				508823	2	Standard
|	**Cr**	**52**		ug/L				14729	6	Standard
⌊	**Cr**	**53**		ug/L				130	7	Standard
⌈>	**Ge**	**72**		ug/L				25706	1	KED
|	**Cu**	**63**		ug/L				35	27	KED
|	**Cu**	**65**		ug/L				25	8	KED
|	**Zn**	**66**		ug/L				24	27	KED
|	**Zn**	**67**		ug/L				1	100	KED
⌊	**As**	**75**		ug/L				7	31	KED
	Y	**89**		ug/L				261919	1	Standard
	Kr	**83**		ug/L				60	21	Standard
⌈>	**In-1**	**115**		ug/L				7141	2	KED
|	**Cd**	**111**		ug/L				2	88	KED
⌊	**Cd**	**114**		ug/L				3	53	KED
⌈>	**In**	**115**		ug/L				388851	1	Standard
⌊	**Ag**	**107**		ug/L				59	17	Standard
⌈>	**Tb**	**159**		ug/L				618478	3	Standard
⌊	**Pb**	**208**		ug/L				110	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:17:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36715	1	Standard
	Cl	**37**		ug/L			3935892	4413335	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	510308	0	Standard
|	**Cr**	**52**	**48.998**	ug/L	0.866	1	14729	911310	1	Standard
⌊	**Cr**	**53**	**48.576**	ug/L	0.667	1	130	104493	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	26154	1	KED
|	**Cu**	**63**	**50.235**	ug/L	0.586	1	35	148687	1	KED
|	**Cu**	**65**	**51.149**	ug/L	0.650	1	25	75722	1	KED
|	**Zn**	**66**	**50.229**	ug/L	1.046	2	24	20045	0	KED
|	**Zn**	**67**	**51.080**	ug/L	1.527	2	1	3448	1	KED
⌊	**As**	**75**	**49.972**	ug/L	1.219	2	7	10080	0	KED
	Y	**89**		ug/L			261919	270031	2	Standard
	Kr	**83**		ug/L			60	61	42	Standard
⌈>	**In-1**	**115**		ug/L			7141	7337	2	KED
|	**Cd**	**111**	**49.964**	ug/L	1.111	2	2	11461	0	KED
⌊	**Cd**	**114**	**50.588**	ug/L	1.636	3	3	28214	2	KED
⌈>	**In**	**115**		ug/L			388851	385244	0	Standard
⌊	**Ag**	**107**	**49.982**	ug/L	0.499	0	59	649505	0	Standard
⌈>	**Tb**	**159**		ug/L			618478	624778	1	Standard
⌊	**Pb**	**208**	**51.071**	ug/L	0.732	1	110	2146504	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 01:24:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36949	4	Standard
	Cl	**37**		ug/L			3935892	3972336	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	499059	2	Standard
⎢	**Cr**	**52**	**0.001**	ug/L	0.023	3783	14729	14453	2	Standard
⌊	**Cr**	**53**	**0.002**	ug/L	0.007	399	130	132	13	Standard
⌈>	**Ge**	**72**		ug/L			25706	25513	0	KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.004	473	35	33	32	KED
⎢	**Cu**	**65**	**-0.007**	ug/L	0.002	34	25	15	21	KED
⎢	**Zn**	**66**	**-0.017**	ug/L	0.008	43	24	17	16	KED
⎢	**Zn**	**67**	**0.058**	ug/L	0.050	85	1	5	57	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	118	7	6	16	KED
	Y	**89**		ug/L			261919	263928	5	Standard
	Kr	**83**		ug/L			60	60	10	Standard
⌈>	**In-1**	**115**		ug/L			7141	7415	4	KED
⎢	**Cd**	**111**	**0.009**	ug/L	0.005	60	2	5	28	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.006	1350	3	3	90	KED
⌈>	**In**	**115**		ug/L			388851	394530	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	21	59	92	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	617557	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	102	110	136	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0589-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:29:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38442	0	Standard
	Cl	**37**		ug/L			3935892	4802930	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	493824	0	Standard
|	**Cr**	**52**	**0.068**	ug/L	0.012	18	14729	15499	1	Standard
⌊	**Cr**	**53**	**1.444**	ug/L	0.008	0	130	3129	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	26269	1	KED
|	**Cu**	**63**	**5.134**	ug/L	0.089	1	35	15294	1	KED
|	**Cu**	**65**	**5.195**	ug/L	0.120	2	25	7748	2	KED
|	**Zn**	**66**	**100.778**	ug/L	1.264	1	24	40372	0	KED
|	**Zn**	**67**	**90.197**	ug/L	1.362	1	1	6117	2	KED
⌊	**As**	**75**	**0.126**	ug/L	0.009	7	7	33	4	KED
	Y	**89**		ug/L			261919	251499	0	Standard
	Kr	**83**		ug/L			60	52	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7206	2	KED
|	**Cd**	**111**	**0.181**	ug/L	0.047	25	2	43	26	KED
⌊	**Cd**	**114**	**0.135**	ug/L	0.007	5	3	77	4	KED
⌈>	**In**	**115**		ug/L			388851	380307	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	168	59	63	12	Standard
⌈>	**Tb**	**159**		ug/L			618478	607704	2	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.001	5	110	991	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0599-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:33:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	42049	1	Standard
	Cl	**37**		ug/L			3935892	4122124	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	522443	2	Standard
|	**Cr**	**52**	**0.531**	ug/L	0.008	1	14729	25077	1	Standard
⌊	**Cr**	**53**	**0.573**	ug/L	0.017	2	130	1393	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	26189	1	KED
|	**Cu**	**63**	**60.624**	ug/L	0.446	0	35	179671	0	KED
|	**Cu**	**65**	**60.455**	ug/L	0.625	1	25	89619	2	KED
|	**Zn**	**66**	**11.494**	ug/L	0.043	0	24	4613	1	KED
|	**Zn**	**67**	**11.084**	ug/L	0.266	2	1	751	3	KED
⌊	**As**	**75**	**0.173**	ug/L	0.014	7	7	42	6	KED
	Y	**89**		ug/L			261919	277232	1	Standard
	Kr	**83**		ug/L			60	50	4	Standard
⌈>	**In-1**	**115**		ug/L			7141	7502	2	KED
|	**Cd**	**111**	**0.134**	ug/L	0.011	8	2	34	5	KED
⌊	**Cd**	**114**	**0.141**	ug/L	0.011	7	3	84	7	KED
⌈>	**In**	**115**		ug/L			388851	400662	2	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	16	59	153	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	632816	2	Standard
⌊	**Pb**	**208**	**1.137**	ug/L	0.004	0	110	48514	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0598-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:37:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	44723	2	Standard
	Cl	**37**		ug/L			3935892	4942584	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	560897	2	Standard
|	**Cr**	**52**	**0.224**	ug/L	0.024	10	14729	20737	1	Standard
⌊	**Cr**	**53**	**0.823**	ug/L	0.014	1	130	2086	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	24925	1	KED
|	**Cu**	**63**	**0.273**	ug/L	0.010	3	35	804	2	KED
|	**Cu**	**65**	**0.282**	ug/L	0.021	7	25	422	8	KED
|	**Zn**	**66**	**44.377**	ug/L	0.059	0	24	16882	0	KED
|	**Zn**	**67**	**39.983**	ug/L	1.568	3	1	2574	4	KED
⌊	**As**	**75**	**0.154**	ug/L	0.009	5	7	36	5	KED
	Y	**89**		ug/L			261919	273005	2	Standard
	Kr	**83**		ug/L			60	57	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	7166	1	KED
|	**Cd**	**111**	**3.119**	ug/L	0.084	2	2	701	1	KED
⌊	**Cd**	**114**	**3.019**	ug/L	0.015	0	3	1648	1	KED
⌈>	**In**	**115**		ug/L			388851	384801	0	Standard
⌊	**Ag**	**107**	**0.013**	ug/L	0.023	179	59	223	131	Standard
⌈>	**Tb**	**159**		ug/L			618478	628686	2	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	7	110	487	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0234-DUP2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:42:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45443	2	Standard
	Cl	**37**		ug/L			3935892	5098913	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	566549	1	Standard
|	**Cr**	**52**	**0.202**	ug/L	0.023	11	14729	20504	3	Standard
⌊	**Cr**	**53**	**0.869**	ug/L	0.021	2	130	2218	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	24480	1	KED
|	**Cu**	**63**	**0.560**	ug/L	0.007	1	35	1585	2	KED
|	**Cu**	**65**	**0.541**	ug/L	0.025	4	25	773	4	KED
|	**Zn**	**66**	**44.532**	ug/L	1.228	2	24	16636	1	KED
|	**Zn**	**67**	**38.883**	ug/L	1.015	2	1	2458	3	KED
⌊	**As**	**75**	**0.129**	ug/L	0.032	25	7	31	21	KED
	Y	**89**		ug/L			261919	276551	1	Standard
	Kr	**83**		ug/L			60	55	15	Standard
⌈>	**In-1**	**115**		ug/L			7141	6738	4	KED
|	**Cd**	**111**	**2.950**	ug/L	0.224	7	2	622	3	KED
⌊	**Cd**	**114**	**3.082**	ug/L	0.037	1	3	1582	2	KED
⌈>	**In**	**115**		ug/L			388851	388616	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	78	59	50	15	Standard
⌈>	**Tb**	**159**		ug/L			618478	614278	0	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.001	2	110	1179	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0234-MS2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, January 13, 2023 01:46:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	46579	3	Standard
	Cl	**37**		ug/L			3935892	5205995	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	585842	1	Standard
|	**Cr**	**52**	**4.985**	ug/L	0.072	1	14729	121680	1	Standard
⌊	**Cr**	**53**	**5.605**	ug/L	0.089	1	130	13976	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	25944	2	KED
|	**Cu**	**63**	**5.524**	ug/L	0.091	1	35	16251	3	KED
|	**Cu**	**65**	**5.461**	ug/L	0.106	1	25	8040	1	KED
|	**Zn**	**66**	**61.173**	ug/L	0.705	1	24	24214	2	KED
|	**Zn**	**67**	**55.774**	ug/L	1.116	2	1	3736	3	KED
⌊	**As**	**75**	**5.494**	ug/L	0.056	1	7	1106	1	KED
	Y	**89**		ug/L			261919	282433	0	Standard
	Kr	**83**		ug/L			60	59	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	6981	2	KED
|	**Cd**	**111**	**8.325**	ug/L	0.225	2	2	1819	0	KED
⌊	**Cd**	**114**	**8.119**	ug/L	0.183	2	3	4311	1	KED
⌈>	**In**	**115**		ug/L			388851	392445	0	Standard
⌊	**Ag**	**107**	**5.044**	ug/L	0.045	0	59	66829	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	623053	1	Standard
⌊	**Pb**	**208**	**5.460**	ug/L	0.102	1	110	228934	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:51:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45653	2	Standard
	Cl	**37**		ug/L			3935892	4503757	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	594232	3	Standard
|	**Cr**	**52**	**11.014**	ug/L	0.173	1	14729	251847	3	Standard
⌊	**Cr**	**53**	**11.069**	ug/L	0.174	1	130	27837	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	27333	1	KED
|	**Cu**	**63**	**5.728**	ug/L	0.189	3	35	17753	3	KED
|	**Cu**	**65**	**5.616**	ug/L	0.116	2	25	8712	1	KED
|	**Zn**	**66**	**23.642**	ug/L	0.613	2	24	9874	2	KED
|	**Zn**	**67**	**22.033**	ug/L	0.709	3	1	1555	1	KED
⌊	**As**	**75**	**3.152**	ug/L	0.082	2	7	671	1	KED
	Y	**89**		ug/L			261919	382320	3	Standard
	Kr	**83**		ug/L			60	80	14	Standard
⌈>	**In-1**	**115**		ug/L			7141	7074	2	KED
|	**Cd**	**111**	**0.275**	ug/L	0.034	12	2	63	13	KED
⌊	**Cd**	**114**	**0.241**	ug/L	0.028	11	3	133	9	KED
⌈>	**In**	**115**		ug/L			388851	394194	3	Standard
⌊	**Ag**	**107**	**0.038**	ug/L	0.001	1	59	563	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	631270	2	Standard
⌊	**Pb**	**208**	**3.484**	ug/L	0.035	0	110	148050	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:55:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	59254	0	Standard
	Cl	**37**		ug/L			3935892	4442140	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	585555	5	Standard
|	**Cr**	**52**	**12.213**	ug/L	0.408	3	14729	273094	1	Standard
⌊	**Cr**	**53**	**12.236**	ug/L	0.368	3	130	30286	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	25367	3	KED
|	**Cu**	**63**	**5.747**	ug/L	0.235	4	35	16518	2	KED
|	**Cu**	**65**	**5.638**	ug/L	0.208	3	25	8113	2	KED
|	**Zn**	**66**	**24.602**	ug/L	1.108	4	24	9528	1	KED
|	**Zn**	**67**	**22.676**	ug/L	2.435	10	1	1483	7	KED
⌊	**As**	**75**	**3.414**	ug/L	0.035	1	7	674	2	KED
	Y	**89**		ug/L			261919	388054	3	Standard
	Kr	**83**		ug/L			60	87	11	Standard
⌈>	**In-1**	**115**		ug/L			7141	7029	1	KED
|	**Cd**	**111**	**0.300**	ug/L	0.042	13	2	68	12	KED
⌊	**Cd**	**114**	**0.233**	ug/L	0.021	9	3	128	6	KED
⌈>	**In**	**115**		ug/L			388851	389091	3	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	6	59	511	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	626607	4	Standard
⌊	**Pb**	**208**	**3.645**	ug/L	0.067	1	110	153710	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 01:59:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	50551	0	Standard
	Cl	**37**		ug/L			3935892	4268292	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	537994	10	Standard
|	**Cr**	**52**	**35.889**	ug/L	2.722	7	14729	704248	3	Standard
⌊	**Cr**	**53**	**35.125**	ug/L	2.064	5	130	79387	5	Standard
⌈>	**Ge**	**72**		ug/L			25706	26474	1	KED
|	**Cu**	**63**	**32.363**	ug/L	0.330	1	35	96987	2	KED
|	**Cu**	**65**	**31.680**	ug/L	0.761	2	25	47492	3	KED
|	**Zn**	**66**	**108.063**	ug/L	1.936	1	24	43635	2	KED
|	**Zn**	**67**	**102.906**	ug/L	0.762	0	1	7032	1	KED
⌊	**As**	**75**	**28.220**	ug/L	0.940	3	7	5767	4	KED
	Y	**89**		ug/L			261919	363356	7	Standard
	Kr	**83**		ug/L			60	78	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	6765	2	KED
|	**Cd**	**111**	**25.993**	ug/L	1.007	3	2	5496	1	KED
⌊	**Cd**	**114**	**26.533**	ug/L	0.741	2	3	13644	0	KED
⌈>	**In**	**115**		ug/L			388851	368164	8	Standard
⌊	**Ag**	**107**	**27.136**	ug/L	0.954	3	59	336461	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	601491	9	Standard
⌊	**Pb**	**208**	**31.698**	ug/L	2.239	7	110	1277123	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLA0156-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 02:04:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	59088	0	Standard
	Cl	**37**		ug/L			3935892	4472030	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	595374	4	Standard
|	**Cr**	**52**	**34.707**	ug/L	1.599	4	14729	757228	0	Standard
⌊	**Cr**	**53**	**34.439**	ug/L	0.681	1	130	86436	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	25650	1	KED
|	**Cu**	**63**	**32.314**	ug/L	1.101	3	35	93796	2	KED
|	**Cu**	**65**	**31.444**	ug/L	0.588	1	25	45656	0	KED
|	**Zn**	**66**	**106.965**	ug/L	3.418	3	24	41833	2	KED
|	**Zn**	**67**	**98.850**	ug/L	3.877	3	1	6543	2	KED
⌊	**As**	**75**	**28.502**	ug/L	0.393	1	7	5642	0	KED
	Y	**89**		ug/L			261919	386735	2	Standard
	Kr	**83**		ug/L			60	100	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7217	1	KED
|	**Cd**	**111**	**26.235**	ug/L	0.146	0	2	5922	1	KED
⌊	**Cd**	**114**	**26.057**	ug/L	0.397	1	3	14300	0	KED
⌈>	**In**	**115**		ug/L			388851	400037	0	Standard
⌊	**Ag**	**107**	**25.145**	ug/L	0.334	1	59	339354	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	639732	2	Standard
⌊	**Pb**	**208**	**30.810**	ug/L	0.715	2	110	1325751	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:08:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37579	2	Standard
	Cl	**37**		ug/L			3935892	4226620	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	508932	3	Standard
|	**Cr**	**52**	**-0.001**	ug/L	0.029	1980	14729	14695	1	Standard
⌊	**Cr**	**53**	**0.015**	ug/L	0.006	37	130	162	8	Standard
⌈>	**Ge**	**72**		ug/L			25706	26176	1	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	94	35	40	9	KED
|	**Cu**	**65**	**0.004**	ug/L	0.002	50	25	32	10	KED
|	**Zn**	**66**	**0.029**	ug/L	0.031	105	24	36	33	KED
|	**Zn**	**67**	**0.047**	ug/L	0.044	93	1	5	57	KED
⌊	**As**	**75**	**0.003**	ug/L	0.009	354	7	8	21	KED
	Y	**89**		ug/L			261919	267714	2	Standard
	Kr	**83**		ug/L			60	48	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7055	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.009	336	2	2	89	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.003	97	3	1	107	KED
⌈>	**In**	**115**		ug/L			388851	391615	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	9	59	85	2	Standard
⌈>	**Tb**	**159**		ug/L			618478	605337	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	78	110	143	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:12:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37469	1	Standard
	Cl	**37**		ug/L			3935892	4484147	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	521346	1	Standard
|	**Cr**	**52**	**48.840**	ug/L	0.589	1	14729	928245	3	Standard
⌊	**Cr**	**53**	**48.803**	ug/L	0.862	1	130	107282	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	25686	2	KED
|	**Cu**	**63**	**52.052**	ug/L	2.244	4	35	151225	2	KED
|	**Cu**	**65**	**51.017**	ug/L	1.014	1	25	74157	1	KED
|	**Zn**	**66**	**51.527**	ug/L	1.495	2	24	20189	1	KED
|	**Zn**	**67**	**51.229**	ug/L	2.273	4	1	3395	2	KED
⌊	**As**	**75**	**50.581**	ug/L	1.271	2	7	10019	1	KED
	Y	**89**		ug/L			261919	269800	1	Standard
	Kr	**83**		ug/L			60	59	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	6859	3	KED
|	**Cd**	**111**	**50.752**	ug/L	1.548	3	2	10880	0	KED
⌊	**Cd**	**114**	**51.846**	ug/L	1.975	3	3	27022	1	KED
⌈>	**In**	**115**		ug/L			388851	390224	3	Standard
⌊	**Ag**	**107**	**49.666**	ug/L	1.906	3	59	654111	6	Standard
⌈>	**Tb**	**159**		ug/L			618478	616224	2	Standard
⌊	**Pb**	**208**	**52.541**	ug/L	0.685	1	110	2178067	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:20:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37791	1	Standard
	Cl	**37**		ug/L			3935892	4195550	6	Standard
⌈>	**Sc**	**45**		ug/L			508823	512500	6	Standard
|	**Cr**	**52**	**-0.024**	ug/L	0.017	71	14729	14380	4	Standard
⌊	**Cr**	**53**	**0.010**	ug/L	0.004	40	130	152	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	26166	3	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	41	35	26	18	KED
|	**Cu**	**65**	**-0.010**	ug/L	0.007	72	25	10	97	KED
|	**Zn**	**66**	**-0.025**	ug/L	0.014	55	24	15	33	KED
|	**Zn**	**67**	**0.018**	ug/L	0.016	86	1	3	34	KED
⌊	**As**	**75**	**0.002**	ug/L	0.005	208	7	8	15	KED
	Y	**89**		ug/L			261919	259581	5	Standard
	Kr	**83**		ug/L			60	51	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7309	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.004	101	2	3	25	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	392	3	3	96	KED
⌈>	**In**	**115**		ug/L			388851	385183	6	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	48	59	89	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	605144	5	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	10	110	172	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0649-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:24:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			37442	52198	1	Standard
	Cl	37		ug/L			3935892	4309630	3	Standard
⌈>	Sc	45		ug/L			508823	528643	1	Standard
|	Cr	52	0.587	ug/L	0.016	2	14729	26421	1	Standard
⌊	Cr	53	0.631	ug/L	0.033	5	130	1539	3	Standard
⌈>	Ge	72		ug/L			25706	17720	4	KED
|	Cu	63	5.095	ug/L	0.026	0	35	10241	4	KED
|	Cu	65	5.036	ug/L	0.167	3	25	5062	1	KED
|	Zn	66	144.937	ug/L	2.890	1	24	39150	3	KED
|	Zn	67	130.544	ug/L	3.240	2	1	5968	3	KED
⌊	As	75	0.099	ug/L	0.022	22	7	18	20	KED
	Y	89		ug/L			261919	271388	2	Standard
	Kr	83		ug/L			60	46	32	Standard
⌈>	In-1	115		ug/L			7141	7298	1	KED
|	Cd	111	0.030	ug/L	0.020	64	2	9	44	KED
⌊	Cd	114	-0.003	ug/L	0.008	281	3	2	188	KED
⌈>	In	115		ug/L			388851	396781	1	Standard
⌊	Ag	107	0.003	ug/L	0.001	23	59	107	8	Standard
⌈>	Tb	159		ug/L			618478	614748	0	Standard
⌊	Pb	208	0.845	ug/L	0.006	0	110	35055	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0650-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:27:37

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			37442	30577	1	Standard
Cl	37		ug/L			3935892	165047941	2	Standard
> Sc	45		ug/L			508823	199389	0	Standard
Cr	52	3.411	ug/L	0.116	3	14729	30157	2	Standard
Cr	53	178.366	ug/L	4.710	2	130	149791	2	Standard
> Ge	72		ug/L			25706	4933	5	KED
Cu	63	41.904	ug/L	0.596	1	35	23386	3	KED
Cu	65	41.010	ug/L	0.987	2	25	11450	5	KED
Zn	66	277.106	ug/L	4.750	1	24	20834	4	KED
Zn	67	243.223	ug/L	5.930	2	1	3096	5	KED
As	75	33.526	ug/L	0.761	2	7	1275	3	KED
Y	89		ug/L			261919	103481	1	Standard
Kr	83		ug/L			60	99405	2	Standard
> In-1	115		ug/L			7141	2312	1	KED
Cd	111	2.856	ug/L	0.137	4	2	207	3	KED
Cd	114	2.885	ug/L	0.062	2	3	508	2	KED
> In	115		ug/L			388851	132655	0	Standard
Ag	107	0.032	ug/L	0.004	12	59	164	11	Standard
> Tb	159		ug/L			618478	234489	0	Standard
Pb	208	22.254	ug/L	0.056	0	110	351114	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0651-01
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:30:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			37442	45352	0	Standard
Cl	37		ug/L			3935892	169288153	3	Standard
> Sc	45		ug/L			508823	255833	1	Standard
Cr	52	**3.670**	ug/L	0.077	2	14729	41074	2	Standard
Cr	53	**187.927**	ug/L	0.484	0	130	202497	2	Standard
> Ge	72		ug/L			25706	5921	8	KED
Cu	63	**16.501**	ug/L	0.947	5	35	11029	2	KED
Cu	65	**15.559**	ug/L	0.893	5	25	5202	2	KED
Zn	66	**261.060**	ug/L	11.764	4	24	23510	4	KED
Zn	67	**231.963**	ug/L	10.543	4	1	3536	3	KED
As	75	**1.241**	ug/L	0.049	3	7	58	10	KED
Y	89		ug/L			261919	118340	1	Standard
Kr	83		ug/L			60	77878	5	Standard
> In-1	115		ug/L			7141	2826	1	KED
Cd	111	**1.299**	ug/L	0.123	9	2	115	8	KED
Cd	114	**1.390**	ug/L	0.039	2	3	300	3	KED
> In	115		ug/L			388851	153146	2	Standard
Ag	107	**0.031**	ug/L	0.004	14	59	182	12	Standard
> Tb	159		ug/L			618478	269428	1	Standard
Pb	208	**2.532**	ug/L	0.013	0	110	45941	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0653-01
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:34:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	57362	0	Standard
	Cl	**37**		ug/L			3935892	8704843	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	509002	1	Standard
|	**Cr**	**52**	**0.617**	ug/L	0.015	2	14729	26003	0	Standard
⌊	**Cr**	**53**	**11.552**	ug/L	0.309	2	130	24892	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	21951	3	KED
|	**Cu**	**63**	**3.512**	ug/L	0.107	3	35	8748	2	KED
|	**Cu**	**65**	**3.452**	ug/L	0.097	2	25	4307	1	KED
|	**Zn**	**66**	**98.644**	ug/L	2.283	2	24	33008	1	KED
|	**Zn**	**67**	**89.339**	ug/L	2.802	3	1	5061	3	KED
⌊	**As**	**75**	**0.302**	ug/L	0.035	11	7	57	12	KED
	Y	**89**		ug/L			261919	271049	2	Standard
	Kr	**83**		ug/L			60	273	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	8507	0	KED
|	**Cd**	**111**	**0.022**	ug/L	0.005	25	2	9	15	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.008	27	3	24	22	KED
⌈>	**In**	**115**		ug/L			388851	378730	0	Standard
⌊	**Ag**	**107**	**0.020**	ug/L	0.000	2	59	313	2	Standard
⌈>	**Tb**	**159**		ug/L			618478	667228	1	Standard
⌊	**Pb**	**208**	**0.312**	ug/L	0.004	1	110	14112	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0655-01
Sample Dil Factor: 5
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:37:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39868	0	Standard
	Cl	**37**		ug/L			3935892	5185019	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	511299	2	Standard
|	**Cr**	**52**	**1.716**	ug/L	0.045	2	14729	46258	3	Standard
⌊	**Cr**	**53**	**6.982**	ug/L	0.138	1	130	15161	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	20726	3	KED
|	**Cu**	**63**	**9.961**	ug/L	0.234	2	35	23376	1	KED
|	**Cu**	**65**	**9.909**	ug/L	0.143	1	25	11645	4	KED
|	**Zn**	**66**	**34.946**	ug/L	0.866	2	24	11062	5	KED
|	**Zn**	**67**	**32.365**	ug/L	1.419	4	1	1731	3	KED
⌊	**As**	**75**	**0.444**	ug/L	0.064	14	7	77	15	KED
	Y	**89**		ug/L			261919	274307	3	Standard
	Kr	**83**		ug/L			60	85	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	8181	0	KED
|	**Cd**	**111**	**0.166**	ug/L	0.036	21	2	45	20	KED
⌊	**Cd**	**114**	**0.158**	ug/L	0.007	4	3	102	4	KED
⌈>	**In**	**115**		ug/L			388851	390169	3	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.001	12	59	205	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	664665	3	Standard
⌊	**Pb**	**208**	**2.474**	ug/L	0.052	2	110	110703	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0656-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:40:36

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	55641	0	Standard
	Cl	**37**		ug/L			3935892	5643750	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	542343	1	Standard
|	**Cr**	**52**	**5.295**	ug/L	0.065	1	14729	118656	0	Standard
⌊	**Cr**	**53**	**9.381**	ug/L	0.109	1	130	21559	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19287	6	KED
|	**Cu**	**63**	**10.974**	ug/L	0.570	5	35	23930	3	KED
|	**Cu**	**65**	**11.154**	ug/L	0.451	4	25	12173	3	KED
|	**Zn**	**66**	**81.935**	ug/L	2.893	3	24	24068	3	KED
|	**Zn**	**67**	**76.896**	ug/L	0.311	0	1	3829	6	KED
⌊	**As**	**75**	**2.560**	ug/L	0.222	8	7	385	6	KED
	Y	**89**		ug/L			261919	282365	1	Standard
	Kr	**83**		ug/L			60	83	19	Standard
⌈>	**In-1**	**115**		ug/L			7141	7766	1	KED
|	**Cd**	**111**	**0.147**	ug/L	0.035	23	2	38	19	KED
⌊	**Cd**	**114**	**0.216**	ug/L	0.007	3	3	131	4	KED
⌈>	**In**	**115**		ug/L			388851	368381	1	Standard
⌊	**Ag**	**107**	**0.016**	ug/L	0.000	2	59	254	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	643998	1	Standard
⌊	**Pb**	**208**	**3.843**	ug/L	0.074	1	110	166575	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0660-03
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:43:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	49743	3	Standard
	Cl	**37**		ug/L			3935892	6933263	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	474534	5	Standard
|	**Cr**	**52**	**7.179**	ug/L	0.093	1	14729	135846	3	Standard
⌊	**Cr**	**53**	**13.846**	ug/L	0.351	2	130	27761	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18190	5	KED
|	**Cu**	**63**	**12.306**	ug/L	0.232	1	35	25338	3	KED
|	**Cu**	**65**	**12.143**	ug/L	0.526	4	25	12501	2	KED
|	**Zn**	**66**	**40.722**	ug/L	0.518	1	24	11304	4	KED
|	**Zn**	**67**	**39.781**	ug/L	0.409	1	1	1868	5	KED
⌊	**As**	**75**	**0.994**	ug/L	0.062	6	7	144	8	KED
	Y	**89**		ug/L			261919	253107	5	Standard
	Kr	**83**		ug/L			60	79	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7807	2	KED
|	**Cd**	**111**	**0.055**	ug/L	0.004	7	2	16	6	KED
⌊	**Cd**	**114**	**0.041**	ug/L	0.027	66	3	27	55	KED
⌈>	**In**	**115**		ug/L			388851	358658	4	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.001	15	59	132	10	Standard
⌈>	**Tb**	**159**		ug/L			618478	633858	4	Standard
⌊	**Pb**	**208**	**2.266**	ug/L	0.051	2	110	96682	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22L0660-05
Sample Dil Factor: 2
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:47:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	43598	2	Standard
	Cl	**37**		ug/L			3935892	5660116	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	472702	1	Standard
|	**Cr**	**52**	**5.309**	ug/L	0.033	0	14729	103674	2	Standard
⌊	**Cr**	**53**	**9.709**	ug/L	0.059	0	130	19443	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18264	2	KED
|	**Cu**	**63**	**18.389**	ug/L	0.250	1	35	38030	2	KED
|	**Cu**	**65**	**18.083**	ug/L	0.408	2	25	18710	3	KED
|	**Zn**	**66**	**77.192**	ug/L	1.957	2	24	21512	4	KED
|	**Zn**	**67**	**75.648**	ug/L	1.709	2	1	3566	1	KED
⌊	**As**	**75**	**0.942**	ug/L	0.021	2	7	137	3	KED
	Y	**89**		ug/L			261919	272650	2	Standard
	Kr	**83**		ug/L			60	66	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7798	3	KED
|	**Cd**	**111**	**0.093**	ug/L	0.035	37	2	25	29	KED
⌊	**Cd**	**114**	**0.059**	ug/L	0.017	28	3	39	27	KED
⌈>	**In**	**115**		ug/L			388851	366860	2	Standard
⌊	**Ag**	**107**	**0.012**	ug/L	0.003	22	59	208	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	639361	2	Standard
⌊	**Pb**	**208**	**7.042**	ug/L	0.156	2	110	302945	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-02
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 02:50:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36285	1	Standard
	Cl	**37**		ug/L			3935892	4142953	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	500147	1	Standard
|	**Cr**	**52**	**11.202**	ug/L	0.168	1	14729	215380	2	Standard
⌊	**Cr**	**53**	**13.137**	ug/L	0.116	0	130	27794	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18934	5	KED
|	**Cu**	**63**	**5.699**	ug/L	0.204	3	35	12221	3	KED
|	**Cu**	**65**	**5.673**	ug/L	0.216	3	25	6087	2	KED
|	**Zn**	**66**	**23.320**	ug/L	0.600	2	24	6742	3	KED
|	**Zn**	**67**	**22.829**	ug/L	0.348	1	1	1117	7	KED
⌊	**As**	**75**	**3.422**	ug/L	0.050	1	7	504	5	KED
	Y	**89**		ug/L			261919	355571	0	Standard
	Kr	**83**		ug/L			60	88	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	8031	1	KED
|	**Cd**	**111**	**0.224**	ug/L	0.005	2	2	59	0	KED
⌊	**Cd**	**114**	**0.251**	ug/L	0.005	2	3	157	2	KED
⌈>	**In**	**115**		ug/L			388851	374091	2	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.001	1	59	512	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	659107	1	Standard
⌊	**Pb**	**208**	**3.075**	ug/L	0.013	0	110	136460	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:53:43
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	29247	6	Standard
	Cl	**37**		ug/L			3935892	3751040	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	425826	5	Standard
|	**Cr**	**52**	**0.074**	ug/L	0.027	36	14729	13457	6	Standard
⌊	**Cr**	**53**	**2.237**	ug/L	0.088	3	130	4115	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18506	2	KED
|	**Cu**	**63**	**0.005**	ug/L	0.006	116	35	35	30	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	142	25	15	18	KED
|	**Zn**	**66**	**0.016**	ug/L	0.010	61	24	22	9	KED
|	**Zn**	**67**	**0.050**	ug/L	0.038	74	1	3	50	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.007	100	7	4	22	KED
	Y	**89**		ug/L			261919	232884	3	Standard
	Kr	**83**		ug/L			60	50	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	7932	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	228	2	2	57	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.004	1664	3	4	54	KED
⌈>	**In**	**115**		ug/L			388851	353903	4	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	53	59	41	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	602381	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	20	110	185	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 02:57:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	30052	2	Standard
	Cl	**37**		ug/L			3935892	4070988	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	452826	0	Standard
|	**Cr**	**52**	**50.727**	ug/L	1.547	3	14729	836686	2	Standard
⌊	**Cr**	**53**	**52.295**	ug/L	0.883	1	130	99817	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18086	7	KED
|	**Cu**	**63**	**56.383**	ug/L	2.935	5	35	115130	1	KED
|	**Cu**	**65**	**55.544**	ug/L	1.834	3	25	56783	4	KED
|	**Zn**	**66**	**53.327**	ug/L	2.812	5	24	14692	4	KED
|	**Zn**	**67**	**52.875**	ug/L	2.045	3	1	2466	5	KED
⌊	**As**	**75**	**52.460**	ug/L	0.760	1	7	7316	6	KED
	Y	**89**		ug/L			261919	253844	1	Standard
	Kr	**83**		ug/L			60	66	28	Standard
⌈>	**In-1**	**115**		ug/L			7141	8068	1	KED
|	**Cd**	**111**	**48.291**	ug/L	0.715	1	2	12185	2	KED
⌊	**Cd**	**114**	**48.229**	ug/L	0.306	0	3	29590	1	KED
⌈>	**In**	**115**		ug/L			388851	365899	0	Standard
⌊	**Ag**	**107**	**52.142**	ug/L	1.599	3	59	643600	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	632630	1	Standard
⌊	**Pb**	**208**	**48.210**	ug/L	1.087	2	110	2051604	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:03:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	28889	3	Standard
	Cl	**37**		ug/L			3935892	3758010	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	434363	2	Standard
|	**Cr**	**52**	**0.069**	ug/L	0.006	9	14729	13649	2	Standard
⌊	**Cr**	**53**	**1.505**	ug/L	0.014	0	130	2865	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	16729	4	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	138	35	19	36	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.008	91	25	8	86	KED
|	**Zn**	**66**	**-0.019**	ug/L	0.032	173	24	11	72	KED
|	**Zn**	**67**	**0.103**	ug/L	0.075	72	1	5	57	KED
⌊	**As**	**75**	**0.002**	ug/L	0.013	616	7	5	28	KED
	Y	**89**		ug/L			261919	239890	3	Standard
	Kr	**83**		ug/L			60	57	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	8221	2	KED
|	**Cd**	**111**	**0.008**	ug/L	0.005	65	2	5	26	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	168	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	356058	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	59	59	60	8	Standard
⌈>	**Tb**	**159**		ug/L			618478	609431	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	21	110	177	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:06:31

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	45819	2	Standard
	Cl	**37**		ug/L			3935892	3834492	2	Standard
>	**Sc**	**45**		ug/L			508823	469497	2	Standard
	Cr	**52**	**10.906**	ug/L	0.077	0	14729	197174	2	Standard
	Cr	**53**	**11.800**	ug/L	0.157	1	130	23443	2	Standard
>	**Ge**	**72**		ug/L			25706	17884	5	KED
	Cu	**63**	**5.331**	ug/L	0.239	4	35	10794	2	KED
	Cu	**65**	**5.383**	ug/L	0.231	4	25	5456	2	KED
	Zn	**66**	**21.944**	ug/L	0.638	2	24	5995	5	KED
	Zn	**67**	**20.799**	ug/L	0.616	2	1	960	4	KED
	As	**75**	**3.018**	ug/L	0.056	1	7	421	7	KED
	Y	**89**		ug/L			261919	334065	3	Standard
	Kr	**83**		ug/L			60	70	10	Standard
>	**In-1**	**115**		ug/L			7141	7687	3	KED
	Cd	**111**	**0.212**	ug/L	0.027	12	2	53	13	KED
	Cd	**114**	**0.201**	ug/L	0.043	21	3	121	23	KED
>	**In**	**115**		ug/L			388851	355257	3	Standard
	Ag	**107**	**0.029**	ug/L	0.002	8	59	403	6	Standard
>	**Tb**	**159**		ug/L			618478	622980	1	Standard
	Pb	**208**	**3.035**	ug/L	0.018	0	110	127329	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-04
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:09:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52362	1	Standard
	Cl	**37**		ug/L			3935892	3894152	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	484566	3	Standard
|	**Cr**	**52**	**10.859**	ug/L	0.259	2	14729	202630	2	Standard
⌊	**Cr**	**53**	**11.969**	ug/L	0.316	2	130	24530	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19083	3	KED
|	**Cu**	**63**	**16.042**	ug/L	0.548	3	35	34636	1	KED
|	**Cu**	**65**	**16.055**	ug/L	0.573	3	25	17341	1	KED
|	**Zn**	**66**	**25.283**	ug/L	0.451	1	24	7370	2	KED
|	**Zn**	**67**	**23.090**	ug/L	1.121	4	1	1137	1	KED
⌊	**As**	**75**	**3.567**	ug/L	0.159	4	7	529	0	KED
	Y	**89**		ug/L			261919	353434	3	Standard
	Kr	**83**		ug/L			60	83	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	8028	2	KED
|	**Cd**	**111**	**0.285**	ug/L	0.025	8	2	74	6	KED
⌊	**Cd**	**114**	**0.255**	ug/L	0.016	6	3	159	5	KED
⌈>	**In**	**115**		ug/L			388851	366434	0	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.003	9	59	504	8	Standard
⌈>	**Tb**	**159**		ug/L			618478	626646	1	Standard
⌊	**Pb**	**208**	**3.339**	ug/L	0.084	2	110	140876	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-05
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:13:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	47432	0	Standard
	Cl	**37**		ug/L			3935892	3761227	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	467605	1	Standard
|	**Cr**	**52**	**11.771**	ug/L	0.130	1	14729	210887	0	Standard
⌊	**Cr**	**53**	**12.713**	ug/L	0.419	3	130	25141	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18384	4	KED
|	**Cu**	**63**	**12.197**	ug/L	0.165	1	35	25403	5	KED
|	**Cu**	**65**	**12.137**	ug/L	0.253	2	25	12639	4	KED
|	**Zn**	**66**	**24.866**	ug/L	0.404	1	24	6982	3	KED
|	**Zn**	**67**	**22.291**	ug/L	1.656	7	1	1056	3	KED
⌊	**As**	**75**	**3.295**	ug/L	0.069	2	7	472	6	KED
	Y	**89**		ug/L			261919	330589	0	Standard
	Kr	**83**		ug/L			60	78	18	Standard
⌈>	**In-1**	**115**		ug/L			7141	7620	3	KED
|	**Cd**	**111**	**0.203**	ug/L	0.028	13	2	51	12	KED
⌊	**Cd**	**114**	**0.241**	ug/L	0.028	11	3	144	14	KED
⌈>	**In**	**115**		ug/L			388851	349395	1	Standard
⌊	**Ag**	**107**	**0.035**	ug/L	0.001	3	59	464	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	615718	0	Standard
⌊	**Pb**	**208**	**3.303**	ug/L	0.063	1	110	136910	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:16:33

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52437	1	Standard
	Cl	**37**		ug/L			3935892	3863136	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	505134	2	Standard
|	**Cr**	**52**	**11.420**	ug/L	0.297	2	14729	221504	4	Standard
⌊	**Cr**	**53**	**12.124**	ug/L	0.188	1	130	25913	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18893	6	KED
|	**Cu**	**63**	**6.031**	ug/L	0.265	4	35	12897	2	KED
|	**Cu**	**65**	**5.983**	ug/L	0.364	6	25	6398	0	KED
|	**Zn**	**66**	**24.325**	ug/L	0.964	3	24	7018	5	KED
|	**Zn**	**67**	**23.434**	ug/L	0.627	2	1	1142	4	KED
⌊	**As**	**75**	**3.313**	ug/L	0.181	5	7	487	7	KED
	Y	**89**		ug/L			261919	352138	2	Standard
	Kr	**83**		ug/L			60	97	10	Standard
⌈>	**In-1**	**115**		ug/L			7141	8010	1	KED
|	**Cd**	**111**	**0.246**	ug/L	0.041	16	2	64	15	KED
⌊	**Cd**	**114**	**0.225**	ug/L	0.021	9	3	141	10	KED
⌈>	**In**	**115**		ug/L			388851	367636	1	Standard
⌊	**Ag**	**107**	**0.038**	ug/L	0.002	4	59	531	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	639905	2	Standard
⌊	**Pb**	**208**	**3.630**	ug/L	0.063	1	110	156341	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-07
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 03:19:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35287	0	Standard
	Cl	**37**		ug/L			3935892	3824908	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	489545	3	Standard
|	**Cr**	**52**	**10.545**	ug/L	0.371	3	14729	199139	0	Standard
⌊	**Cr**	**53**	**11.345**	ug/L	0.099	0	130	23505	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19198	4	KED
|	**Cu**	**63**	**5.450**	ug/L	0.110	2	35	11860	3	KED
|	**Cu**	**65**	**5.338**	ug/L	0.111	2	25	5814	3	KED
|	**Zn**	**66**	**22.152**	ug/L	0.101	0	24	6501	4	KED
|	**Zn**	**67**	**23.516**	ug/L	1.377	5	1	1164	1	KED
⌊	**As**	**75**	**2.963**	ug/L	0.090	3	7	444	5	KED
	Y	**89**		ug/L			261919	348017	2	Standard
	Kr	**83**		ug/L			60	82	12	Standard
⌈>	**In-1**	**115**		ug/L			7141	7935	5	KED
|	**Cd**	**111**	**0.254**	ug/L	0.018	7	2	66	9	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.008	3	3	151	6	KED
⌈>	**In**	**115**		ug/L			388851	362649	0	Standard
⌊	**Ag**	**107**	**0.031**	ug/L	0.001	2	59	434	2	Standard
⌈>	**Tb**	**159**		ug/L			618478	631352	2	Standard
⌊	**Pb**	**208**	**3.366**	ug/L	0.068	2	110	143039	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-08
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:23:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35039	1	Standard
	Cl	**37**		ug/L			3935892	3810338	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	495239	3	Standard
|	**Cr**	**52**	**10.704**	ug/L	0.108	1	14729	204441	3	Standard
⌊	**Cr**	**53**	**11.590**	ug/L	0.037	0	130	24291	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19125	3	KED
|	**Cu**	**63**	**5.851**	ug/L	0.138	2	35	12682	2	KED
|	**Cu**	**65**	**5.854**	ug/L	0.148	2	25	6351	2	KED
|	**Zn**	**66**	**22.654**	ug/L	0.431	1	24	6619	1	KED
|	**Zn**	**67**	**22.374**	ug/L	1.264	5	1	1106	8	KED
⌊	**As**	**75**	**3.196**	ug/L	0.096	2	7	476	6	KED
	Y	**89**		ug/L			261919	338897	2	Standard
	Kr	**83**		ug/L			60	85	4	Standard
⌈>	**In-1**	**115**		ug/L			7141	8043	5	KED
|	**Cd**	**111**	**0.248**	ug/L	0.023	9	2	65	12	KED
⌊	**Cd**	**114**	**0.249**	ug/L	0.054	21	3	155	15	KED
⌈>	**In**	**115**		ug/L			388851	361753	1	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.001	3	59	497	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	627931	1	Standard
⌊	**Pb**	**208**	**3.308**	ug/L	0.012	0	110	139838	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-09
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:26:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	49957	4	Standard
	Cl	**37**		ug/L			3935892	3732248	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	473410	4	Standard
|	**Cr**	**52**	**11.968**	ug/L	0.309	2	14729	216719	3	Standard
⌊	**Cr**	**53**	**12.680**	ug/L	0.206	1	130	25384	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18438	4	KED
|	**Cu**	**63**	**5.579**	ug/L	0.003	0	35	11664	4	KED
|	**Cu**	**65**	**5.613**	ug/L	0.227	4	25	5867	2	KED
|	**Zn**	**66**	**23.488**	ug/L	0.373	1	24	6615	3	KED
|	**Zn**	**67**	**21.846**	ug/L	1.634	7	1	1039	6	KED
⌊	**As**	**75**	**3.054**	ug/L	0.160	5	7	438	0	KED
	Y	**89**		ug/L			261919	326903	4	Standard
	Kr	**83**		ug/L			60	74	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7590	0	KED
|	**Cd**	**111**	**0.235**	ug/L	0.015	6	2	58	6	KED
⌊	**Cd**	**114**	**0.265**	ug/L	0.034	12	3	156	12	KED
⌈>	**In**	**115**		ug/L			388851	351981	3	Standard
⌊	**Ag**	**107**	**0.037**	ug/L	0.005	13	59	488	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	613500	1	Standard
⌊	**Pb**	**208**	**3.541**	ug/L	0.019	0	110	146255	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-10
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 03:29:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	56251	3	Standard
	Cl	**37**		ug/L			3935892	3907703	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	506726	2	Standard
|	**Cr**	**52**	**12.065**	ug/L	0.186	1	14729	233829	1	Standard
⌊	**Cr**	**53**	**12.746**	ug/L	0.278	2	130	27313	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	18287	4	KED
|	**Cu**	**63**	**9.579**	ug/L	0.357	3	35	19823	1	KED
|	**Cu**	**65**	**9.657**	ug/L	0.209	2	25	10004	2	KED
|	**Zn**	**66**	**26.844**	ug/L	0.364	1	24	7497	3	KED
|	**Zn**	**67**	**25.602**	ug/L	0.571	2	1	1209	5	KED
⌊	**As**	**75**	**3.222**	ug/L	0.058	1	7	459	5	KED
	Y	**89**		ug/L			261919	362772	2	Standard
	Kr	**83**		ug/L			60	84	19	Standard
⌈>	**In-1**	**115**		ug/L			7141	7660	3	KED
|	**Cd**	**111**	**0.277**	ug/L	0.030	10	2	69	8	KED
⌊	**Cd**	**114**	**0.239**	ug/L	0.020	8	3	143	9	KED
⌈>	**In**	**115**		ug/L			388851	368635	4	Standard
⌊	**Ag**	**107**	**0.111**	ug/L	0.005	4	59	1442	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	636185	3	Standard
⌊	**Pb**	**208**	**3.671**	ug/L	0.056	1	110	157172	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-11
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 03:33:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53431	1	Standard
	Cl	**37**		ug/L			3935892	3782257	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	477294	1	Standard
|	**Cr**	**52**	**9.806**	ug/L	0.132	1	14729	181660	2	Standard
⌊	**Cr**	**53**	**10.342**	ug/L	0.149	1	130	20901	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	19228	3	KED
|	**Cu**	**63**	**5.378**	ug/L	0.118	2	35	11727	4	KED
|	**Cu**	**65**	**5.396**	ug/L	0.134	2	25	5886	1	KED
|	**Zn**	**66**	**23.235**	ug/L	0.251	1	24	6830	4	KED
|	**Zn**	**67**	**22.465**	ug/L	0.166	0	1	1116	4	KED
⌊	**As**	**75**	**3.058**	ug/L	0.056	1	7	459	5	KED
	Y	**89**		ug/L			261919	337631	2	Standard
	Kr	**83**		ug/L			60	83	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7769	0	KED
|	**Cd**	**111**	**0.275**	ug/L	0.009	3	2	69	4	KED
⌊	**Cd**	**114**	**0.253**	ug/L	0.034	13	3	153	12	KED
⌈>	**In**	**115**		ug/L			388851	356054	1	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	5	59	465	6	Standard
⌈>	**Tb**	**159**		ug/L			618478	617888	2	Standard
⌊	**Pb**	**208**	**3.470**	ug/L	0.050	1	110	144322	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:36:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	29827	1	Standard
	Cl	**37**		ug/L			3935892	3549098	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	427770	6	Standard
|	**Cr**	**52**	**0.050**	ug/L	0.002	3	14729	13154	6	Standard
⌊	**Cr**	**53**	**0.767**	ug/L	0.042	5	130	1488	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19184	3	KED
|	**Cu**	**63**	**0.004**	ug/L	0.005	130	35	34	30	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.001	20	25	13	7	KED
|	**Zn**	**66**	**0.029**	ug/L	0.040	135	24	27	44	KED
|	**Zn**	**67**	**0.049**	ug/L	0.041	83	1	3	50	KED
⌊	**As**	**75**	**0.001**	ug/L	0.014	1315	7	5	36	KED
	Y	**89**		ug/L			261919	232348	5	Standard
	Kr	**83**		ug/L			60	42	6	Standard
⌈>	**In-1**	**115**		ug/L			7141	7944	3	KED
|	**Cd**	**111**	**0.010**	ug/L	0.007	68	2	5	28	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	180	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	351005	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.002	130	59	40	43	Standard
⌈>	**Tb**	**159**		ug/L			618478	591446	6	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	293	110	113	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:40:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	32239	2	Standard
	Cl	**37**		ug/L			3935892	4033391	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	462611	0	Standard
|	**Cr**	**52**	**50.473**	ug/L	0.748	1	14729	850626	1	Standard
⌊	**Cr**	**53**	**50.391**	ug/L	0.491	0	130	98269	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	18506	5	KED
|	**Cu**	**63**	**55.410**	ug/L	2.789	5	35	115830	0	KED
|	**Cu**	**65**	**54.895**	ug/L	1.413	2	25	57447	3	KED
|	**Zn**	**66**	**50.816**	ug/L	0.279	0	24	14348	5	KED
|	**Zn**	**67**	**51.885**	ug/L	1.576	3	1	2477	4	KED
⌊	**As**	**75**	**51.142**	ug/L	1.266	2	7	7294	3	KED
	Y	**89**		ug/L			261919	254210	0	Standard
	Kr	**83**		ug/L			60	46	29	Standard
⌈>	**In-1**	**115**		ug/L			7141	7967	3	KED
|	**Cd**	**111**	**48.010**	ug/L	0.504	1	2	11962	3	KED
⌊	**Cd**	**114**	**47.306**	ug/L	0.817	1	3	28658	3	KED
⌈>	**In**	**115**		ug/L			388851	370041	2	Standard
⌊	**Ag**	**107**	**51.551**	ug/L	1.686	3	59	643125	1	Standard
⌈>	**Tb**	**159**		ug/L			618478	628484	1	Standard
⌊	**Pb**	**208**	**49.578**	ug/L	0.461	0	110	2096185	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 03:46:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	32559	1	Standard
	Cl	**37**		ug/L			3935892	3777445	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	465322	2	Standard
|	**Cr**	**52**	**0.044**	ug/L	0.022	50	14729	14202	3	Standard
⌊	**Cr**	**53**	**0.627**	ug/L	0.009	1	130	1347	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	16137	5	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.002	41	35	11	33	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.005	67	25	8	49	KED
|	**Zn**	**66**	**-0.030**	ug/L	0.011	36	24	8	35	KED
|	**Zn**	**67**	**0.017**	ug/L	0.003	14	1	1		KED
⌊	**As**	**75**	**0.001**	ug/L	0.021	1914	7	4	52	KED
	Y	**89**		ug/L			261919	244745	3	Standard
	Kr	**83**		ug/L			60	54	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7782	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	260	2	2	57	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	219	3	3	74	KED
⌈>	**In**	**115**		ug/L			388851	369783	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	241	59	62	22	Standard
⌈>	**Tb**	**159**		ug/L			618478	609718	3	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.001	236	110	90	42	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-12
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 03:49:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53767	2	Standard
	Cl	**37**		ug/L			3935892	3931066	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	498640	3	Standard
|	**Cr**	**52**	**8.863**	ug/L	0.079	0	14729	172903	3	Standard
⌊	**Cr**	**53**	**9.494**	ug/L	0.035	0	130	20062	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18465	5	KED
|	**Cu**	**63**	**33.966**	ug/L	1.270	3	35	70915	3	KED
|	**Cu**	**65**	**34.172**	ug/L	0.705	2	25	35696	3	KED
|	**Zn**	**66**	**20.170**	ug/L	0.655	3	24	5688	2	KED
|	**Zn**	**67**	**18.470**	ug/L	2.287	12	1	877	6	KED
⌊	**As**	**75**	**2.871**	ug/L	0.135	4	7	413	5	KED
	Y	**89**		ug/L			261919	358018	4	Standard
	Kr	**83**		ug/L			60	81	8	Standard
⌈>	**In-1**	**115**		ug/L			7141	7671	0	KED
|	**Cd**	**111**	**0.200**	ug/L	0.051	25	2	51	23	KED
⌊	**Cd**	**114**	**0.219**	ug/L	0.037	16	3	131	16	KED
⌈>	**In**	**115**		ug/L			388851	368835	3	Standard
⌊	**Ag**	**107**	**0.027**	ug/L	0.004	15	59	387	9	Standard
⌈>	**Tb**	**159**		ug/L			618478	627256	5	Standard
⌊	**Pb**	**208**	**2.747**	ug/L	0.057	2	110	115959	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:52:48

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38251	3	Standard
	Cl	**37**		ug/L			3935892	3984346	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	524918	1	Standard
|	**Cr**	**52**	**8.661**	ug/L	0.135	1	14729	178221	2	Standard
⌊	**Cr**	**53**	**9.148**	ug/L	0.249	2	130	20346	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	17528	4	KED
|	**Cu**	**63**	**4.315**	ug/L	0.128	2	35	8577	3	KED
|	**Cu**	**65**	**4.441**	ug/L	0.057	1	25	4421	3	KED
|	**Zn**	**66**	**20.119**	ug/L	0.741	3	24	5394	6	KED
|	**Zn**	**67**	**18.542**	ug/L	0.633	3	1	839	2	KED
⌊	**As**	**75**	**2.882**	ug/L	0.059	2	7	394	5	KED
	Y	**89**		ug/L			261919	360591	1	Standard
	Kr	**83**		ug/L			60	84	17	Standard
⌈>	**In-1**	**115**		ug/L			7141	7899	5	KED
|	**Cd**	**111**	**0.227**	ug/L	0.028	12	2	59	15	KED
⌊	**Cd**	**114**	**0.213**	ug/L	0.029	13	3	131	11	KED
⌈>	**In**	**115**		ug/L			388851	383690	2	Standard
⌊	**Ag**	**107**	**0.032**	ug/L	0.002	5	59	473	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	641290	2	Standard
⌊	**Pb**	**208**	**2.975**	ug/L	0.073	2	110	128419	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:56:09

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54349	2	Standard
	Cl	**37**		ug/L			3935892	3857211	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	478592	2	Standard
|	**Cr**	**52**	**9.996**	ug/L	0.060	0	14729	185391	1	Standard
⌊	**Cr**	**53**	**10.499**	ug/L	0.068	0	130	21279	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18997	6	KED
|	**Cu**	**63**	**4.685**	ug/L	0.105	2	35	10088	5	KED
|	**Cu**	**65**	**4.745**	ug/L	0.078	1	25	5115	5	KED
|	**Zn**	**66**	**20.524**	ug/L	0.834	4	24	5952	4	KED
|	**Zn**	**67**	**19.569**	ug/L	0.835	4	1	960	7	KED
⌊	**As**	**75**	**2.910**	ug/L	0.090	3	7	432	9	KED
	Y	**89**		ug/L			261919	337270	0	Standard
	Kr	**83**		ug/L			60	66	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7899	2	KED
|	**Cd**	**111**	**0.217**	ug/L	0.006	2	2	56	0	KED
⌊	**Cd**	**114**	**0.251**	ug/L	0.030	12	3	154	14	KED
⌈>	**In**	**115**		ug/L			388851	355643	1	Standard
⌊	**Ag**	**107**	**0.030**	ug/L	0.004	13	59	419	13	Standard
⌈>	**Tb**	**159**		ug/L			618478	612011	2	Standard
⌊	**Pb**	**208**	**3.192**	ug/L	0.070	2	110	131486	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, January 13, 2023 03:59:30

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	53372	1	Standard
	Cl	**37**		ug/L			3935892	3994721	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	519026	4	Standard
|	**Cr**	**52**	**10.036**	ug/L	0.274	2	14729	201777	4	Standard
⌊	**Cr**	**53**	**10.138**	ug/L	0.424	4	130	22272	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18455	4	KED
|	**Cu**	**63**	**5.127**	ug/L	0.149	2	35	10723	1	KED
|	**Cu**	**65**	**5.120**	ug/L	0.171	3	25	5361	2	KED
|	**Zn**	**66**	**22.713**	ug/L	0.793	3	24	6411	7	KED
|	**Zn**	**67**	**20.811**	ug/L	1.364	6	1	991	4	KED
⌊	**As**	**75**	**2.945**	ug/L	0.100	3	7	424	7	KED
	Y	**89**		ug/L			261919	356728	2	Standard
	Kr	**83**		ug/L			60	82	17	Standard
⌈>	**In-1**	**115**		ug/L			7141	7733	2	KED
|	**Cd**	**111**	**0.236**	ug/L	0.035	14	2	60	13	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.013	5	3	147	3	KED
⌈>	**In**	**115**		ug/L			388851	376766	3	Standard
⌊	**Ag**	**107**	**0.032**	ug/L	0.002	6	59	466	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	633262	4	Standard
⌊	**Pb**	**208**	**3.272**	ug/L	0.072	2	110	139425	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-16
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Friday, January 13, 2023 04:02:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	52834	2	Standard
	Cl	**37**		ug/L			3935892	4116039	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	539603	1	Standard
|	**Cr**	**52**	**12.719**	ug/L	0.089	0	14729	261725	1	Standard
⌊	**Cr**	**53**	**13.270**	ug/L	0.335	2	130	30288	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18879	4	KED
|	**Cu**	**63**	**5.949**	ug/L	0.168	2	35	12723	2	KED
|	**Cu**	**65**	**5.963**	ug/L	0.094	1	25	6385	3	KED
|	**Zn**	**66**	**78.769**	ug/L	1.874	2	24	22668	2	KED
|	**Zn**	**67**	**72.928**	ug/L	1.118	1	1	3555	5	KED
⌊	**As**	**75**	**5.791**	ug/L	0.022	0	7	848	4	KED
	Y	**89**		ug/L			261919	395646	1	Standard
	Kr	**83**		ug/L			60	88	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7626	0	KED
|	**Cd**	**111**	**0.297**	ug/L	0.034	11	2	73	11	KED
⌊	**Cd**	**114**	**0.273**	ug/L	0.056	20	3	162	20	KED
⌈>	**In**	**115**		ug/L			388851	367750	3	Standard
⌊	**Ag**	**107**	**0.050**	ug/L	0.002	4	59	670	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	637006	2	Standard
⌊	**Pb**	**208**	**4.624**	ug/L	0.136	2	110	198180	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-17
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 04:06:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54653	2	Standard
	Cl	**37**		ug/L			3935892	4105182	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	540722	5	Standard
|	**Cr**	**52**	**12.079**	ug/L	0.261	2	14729	250020	7	Standard
⌊	**Cr**	**53**	**12.334**	ug/L	0.102	0	130	28218	5	Standard
⌈>	**Ge**	**72**		ug/L			25706	18467	4	KED
|	**Cu**	**63**	**12.927**	ug/L	0.210	1	35	27030	3	KED
|	**Cu**	**65**	**12.837**	ug/L	0.435	3	25	13419	1	KED
|	**Zn**	**66**	**37.834**	ug/L	0.644	1	24	10664	3	KED
|	**Zn**	**67**	**34.194**	ug/L	0.931	2	1	1631	6	KED
⌊	**As**	**75**	**4.757**	ug/L	0.133	2	7	682	2	KED
	Y	**89**		ug/L			261919	383562	5	Standard
	Kr	**83**		ug/L			60	83	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7490	2	KED
|	**Cd**	**111**	**0.223**	ug/L	0.014	6	2	55	5	KED
⌊	**Cd**	**114**	**0.244**	ug/L	0.011	4	3	142	6	KED
⌈>	**In**	**115**		ug/L			388851	372779	4	Standard
⌊	**Ag**	**107**	**0.039**	ug/L	0.001	3	59	551	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	635151	5	Standard
⌊	**Pb**	**208**	**3.619**	ug/L	0.061	1	110	154695	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-18
Sample Dil Factor: 20
Comments:
DEL
Sample Date/Time: Friday, January 13, 2023 04:09:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	54613	0	Standard
	Cl	**37**		ug/L			3935892	4079084	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	526219	1	Standard
|	**Cr**	**52**	**12.488**	ug/L	0.084	0	14729	250854	0	Standard
⌊	**Cr**	**53**	**12.578**	ug/L	0.117	0	130	28000	0	Standard
⌈>	**Ge**	**72**		ug/L			25706	18889	4	KED
|	**Cu**	**63**	**6.138**	ug/L	0.168	2	35	13141	4	KED
|	**Cu**	**65**	**6.195**	ug/L	0.211	3	25	6637	4	KED
|	**Zn**	**66**	**42.290**	ug/L	1.568	3	24	12181	0	KED
|	**Zn**	**67**	**39.628**	ug/L	2.292	5	1	1931	5	KED
⌊	**As**	**75**	**5.686**	ug/L	0.144	2	7	833	3	KED
	Y	**89**		ug/L			261919	379360	1	Standard
	Kr	**83**		ug/L			60	75	16	Standard
⌈>	**In-1**	**115**		ug/L			7141	7611	0	KED
|	**Cd**	**111**	**0.278**	ug/L	0.058	21	2	69	20	KED
⌊	**Cd**	**114**	**0.245**	ug/L	0.024	9	3	145	9	KED
⌈>	**In**	**115**		ug/L			388851	361300	2	Standard
⌊	**Ag**	**107**	**0.046**	ug/L	0.002	3	59	615	4	Standard
⌈>	**Tb**	**159**		ug/L			618478	617962	1	Standard
⌊	**Pb**	**208**	**4.088**	ug/L	0.040	0	110	170065	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-19
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 04:12:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	56444	3	Standard
	Cl	**37**		ug/L			3935892	4097287	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	547304	3	Standard
|	**Cr**	**52**	**13.736**	ug/L	0.108	0	14729	285364	2	Standard
⌊	**Cr**	**53**	**13.895**	ug/L	0.313	2	130	32145	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19026	4	KED
|	**Cu**	**63**	**6.791**	ug/L	0.865	12	35	14675	15	KED
|	**Cu**	**65**	**6.865**	ug/L	0.893	13	25	7422	15	KED
|	**Zn**	**66**	**41.984**	ug/L	0.316	0	24	12192	3	KED
|	**Zn**	**67**	**38.124**	ug/L	1.189	3	1	1873	5	KED
⌊	**As**	**75**	**6.127**	ug/L	0.050	0	7	904	4	KED
	Y	**89**		ug/L			261919	386678	2	Standard
	Kr	**83**		ug/L			60	95	26	Standard
⌈>	**In-1**	**115**		ug/L			7141	7577	0	KED
|	**Cd**	**111**	**0.258**	ug/L	0.024	9	2	64	8	KED
⌊	**Cd**	**114**	**0.276**	ug/L	0.002	0	3	163	1	KED
⌈>	**In**	**115**		ug/L			388851	362836	1	Standard
⌊	**Ag**	**107**	**0.053**	ug/L	0.003	4	59	700	3	Standard
⌈>	**Tb**	**159**		ug/L			618478	623269	1	Standard
⌊	**Pb**	**208**	**4.395**	ug/L	0.070	1	110	184415	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0011-20
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Friday, January 13, 2023 04:16:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	55971	2	Standard
	Cl	**37**		ug/L			3935892	4208511	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	547082	2	Standard
|	**Cr**	**52**	**12.921**	ug/L	0.209	1	14729	269332	3	Standard
⌊	**Cr**	**53**	**13.120**	ug/L	0.362	2	130	30354	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	19148	4	KED
|	**Cu**	**63**	**5.286**	ug/L	0.206	3	35	11464	0	KED
|	**Cu**	**65**	**5.335**	ug/L	0.267	5	25	5790	0	KED
|	**Zn**	**66**	**34.872**	ug/L	0.775	2	24	10189	2	KED
|	**Zn**	**67**	**34.124**	ug/L	0.857	2	1	1687	3	KED
⌊	**As**	**75**	**4.450**	ug/L	0.163	3	7	662	4	KED
	Y	**89**		ug/L			261919	379850	1	Standard
	Kr	**83**		ug/L			60	97	5	Standard
⌈>	**In-1**	**115**		ug/L			7141	8187	0	KED
|	**Cd**	**111**	**0.225**	ug/L	0.012	5	2	60	5	KED
⌊	**Cd**	**114**	**0.213**	ug/L	0.035	16	3	136	16	KED
⌈>	**In**	**115**		ug/L			388851	373826	2	Standard
⌊	**Ag**	**107**	**0.042**	ug/L	0.002	3	59	590	5	Standard
⌈>	**Tb**	**159**		ug/L			618478	623887	2	Standard
⌊	**Pb**	**208**	**3.505**	ug/L	0.016	0	110	147227	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:19:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	36131	2	Standard
	Cl	**37**		ug/L			3935892	4029611	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	494404	3	Standard
|	**Cr**	**52**	**0.012**	ug/L	0.017	144	14729	14511	1	Standard
⌊	**Cr**	**53**	**0.347**	ug/L	0.023	6	130	848	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18504	5	KED
|	**Cu**	**63**	**0.006**	ug/L	0.004	65	35	38	18	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.013	518	25	15	90	KED
|	**Zn**	**66**	**0.002**	ug/L	0.011	489	24	18	15	KED
|	**Zn**	**67**	**0.093**	ug/L	0.087	92	1	5	66	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.006	254	7	5	19	KED
	Y	**89**		ug/L			261919	259304	3	Standard
	Kr	**83**		ug/L			60	52	9	Standard
⌈>	**In-1**	**115**		ug/L			7141	7531	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.004	111	2	3	25	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.015	236	3	7	111	KED
⌈>	**In**	**115**		ug/L			388851	393904	3	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	15	59	33	11	Standard
⌈>	**Tb**	**159**		ug/L			618478	621123	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	160	110	131	24	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:22:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35362	3	Standard
	Cl	**37**		ug/L			3935892	4231043	3	Standard
>	**Sc**	**45**		ug/L			508823	493577	4	Standard
	Cr	**52**	**49.083**	ug/L	0.661	1	14729	882835	4	Standard
	Cr	**53**	**49.041**	ug/L	0.657	1	130	102047	5	Standard
>	**Ge**	**72**		ug/L			25706	18460	6	KED
	Cu	**63**	**59.107**	ug/L	1.870	3	35	123328	2	KED
	Cu	**65**	**57.581**	ug/L	2.332	4	25	60067	1	KED
	Zn	**66**	**54.866**	ug/L	1.313	2	24	15441	3	KED
	Zn	**67**	**54.256**	ug/L	1.386	2	1	2586	6	KED
	As	**75**	**52.208**	ug/L	0.255	0	7	7433	5	KED
	Y	**89**		ug/L			261919	257094	3	Standard
	Kr	**83**		ug/L			60	67	13	Standard
>	**In-1**	**115**		ug/L			7141	7549	2	KED
	Cd	**111**	**49.823**	ug/L	0.725	1	2	11761	0	KED
	Cd	**114**	**49.496**	ug/L	0.980	1	3	28407	0	KED
>	**In**	**115**		ug/L			388851	378296	3	Standard
	Ag	**107**	**50.703**	ug/L	1.395	2	59	646808	3	Standard
>	**Tb**	**159**		ug/L			618478	611644	3	Standard
	Pb	**208**	**51.216**	ug/L	0.698	1	110	2107525	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:29:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	35789	0	Standard
	Cl	**37**		ug/L			3935892	3974937	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	486489	3	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.012	85	14729	14330	2	Standard
⌊	**Cr**	**53**	**0.335**	ug/L	0.010	2	130	809	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	17916	4	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	147	35	20	32	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.001	36	25	14	7	KED
|	**Zn**	**66**	**-0.019**	ug/L	0.016	79	24	12	39	KED
|	**Zn**	**67**	**0.027**	ug/L	0.064	233	1	2	114	KED
⌊	**As**	**75**	**0.002**	ug/L	0.008	309	7	5	21	KED
	Y	**89**		ug/L			261919	251168	2	Standard
	Kr	**83**		ug/L			60	40	23	Standard
⌈>	**In-1**	**115**		ug/L			7141	7509	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.010	1174	2	3	69	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.009	290	3	5	89	KED
⌈>	**In**	**115**		ug/L			388851	376371	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	94	59	64	10	Standard
⌈>	**Tb**	**159**		ug/L			618478	609475	2	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	49	110	93	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:32:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39255	2	Standard
	Cl	**37**		ug/L			3935892	4167603	4	Standard
⌈>	**Sc**	**45**		ug/L			508823	558656	4	Standard
|	**Cr**	**52**	**0.071**	ug/L	0.014	20	14729	17591	4	Standard
⌊	**Cr**	**53**	**0.267**	ug/L	0.009	3	130	771	3	Standard
⌈>	**Ge**	**72**		ug/L			25706	18375	5	KED
|	**Cu**	**63**	**0.006**	ug/L	0.003	52	35	38	20	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.003	57	25	12	22	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.036	778	24	16	65	KED
|	**Zn**	**67**	**0.026**	ug/L	0.027	103	1	2	43	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.012	416	7	4	33	KED
	Y	**89**		ug/L			261919	290172	4	Standard
	Kr	**83**		ug/L			60	52	21	Standard
⌈>	**In-1**	**115**		ug/L			7141	8085	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	78	2	2	21	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.000	5	3	5	0	KED
⌈>	**In**	**115**		ug/L			388851	408997	4	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.002	387	59	68	33	Standard
⌈>	**Tb**	**159**		ug/L			618478	658175	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	49	110	161	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:35:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	38182	2	Standard
	Cl	**37**		ug/L			3935892	4187240	2	Standard
⌈>	**Sc**	**45**		ug/L			508823	583490	1	Standard
|	**Cr**	**52**	**0.040**	ug/L	0.010	25	14729	17719	2	Standard
⌊	**Cr**	**53**	**0.243**	ug/L	0.007	3	130	747	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19517	4	KED
|	**Cu**	**63**	**0.001**	ug/L	0.005	862	35	27	34	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.004	89	25	14	30	KED
|	**Zn**	**66**	**-0.006**	ug/L	0.004	78	24	17	11	KED
|	**Zn**	**67**	**0.047**	ug/L	0.039	82	1	3	50	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.004	492	7	5	13	KED
	Y	**89**		ug/L			261919	296408	1	Standard
	Kr	**83**		ug/L			60	69	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	8165	4	KED
|	**Cd**	**111**	**0.005**	ug/L	0.009	198	2	4	53	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.000	13	3	5	1	KED
⌈>	**In**	**115**		ug/L			388851	417711	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	317	59	58	31	Standard
⌈>	**Tb**	**159**		ug/L			618478	665365	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	63	110	144	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:39:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39750	3	Standard
	Cl	**37**		ug/L			3935892	4218484	0	Standard
⌈>	**Sc**	**45**		ug/L			508823	579532	1	Standard
|	**Cr**	**52**	**0.048**	ug/L	0.017	35	14729	17768	2	Standard
⌊	**Cr**	**53**	**0.221**	ug/L	0.001	0	130	688	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	19411	4	KED
|	**Cu**	**63**	**0.005**	ug/L	0.004	76	35	37	20	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.003	94	25	15	18	KED
|	**Zn**	**66**	**-0.012**	ug/L	0.015	123	24	15	33	KED
|	**Zn**	**67**	**0.023**	ug/L	0.045	194	1	2	86	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.013	764	7	5	36	KED
	Y	**89**		ug/L			261919	304191	2	Standard
	Kr	**83**		ug/L			60	65	1	Standard
⌈>	**In-1**	**115**		ug/L			7141	8096	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.006	553	2	3	41	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.008	838	3	3	137	KED
⌈>	**In**	**115**		ug/L			388851	426597	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	28	59	46	10	Standard
⌈>	**Tb**	**159**		ug/L			618478	670699	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	48	110	150	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:42:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	37932	1	Standard
	Cl	**37**		ug/L			3935892	3835604	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	490492	1	Standard
|	**Cr**	**52**	**-0.034**	ug/L	0.024	70	14729	13610	3	Standard
⌊	**Cr**	**53**	**0.263**	ug/L	0.011	4	130	669	2	Standard
⌈>	**Ge**	**72**		ug/L			25706	18256	4	KED
|	**Cu**	**63**	**0.004**	ug/L	0.005	127	35	33	28	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.005	170	25	15	33	KED
|	**Zn**	**66**	**0.120**	ug/L	0.040	33	24	50	21	KED
|	**Zn**	**67**	**0.133**	ug/L	0.008	5	1	7	0	KED
⌊	**As**	**75**	**0.001**	ug/L	0.011	1112	7	5	25	KED
	Y	**89**		ug/L			261919	249996	2	Standard
	Kr	**83**		ug/L			60	48	20	Standard
⌈>	**In-1**	**115**		ug/L			7141	7163	0	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.007	86975	2	2	57	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	180	3	4	44	KED
⌈>	**In**	**115**		ug/L			388851	378838	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	42	59	40	20	Standard
⌈>	**Tb**	**159**		ug/L			618478	596430	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	11	110	57	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:45:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	39350	2	Standard
	Cl	**37**		ug/L			3935892	3901739	3	Standard
⌈>	**Sc**	**45**		ug/L			508823	494241	2	Standard
|	**Cr**	**52**	**-0.037**	ug/L	0.013	34	14729	13657	3	Standard
⌊	**Cr**	**53**	**0.275**	ug/L	0.012	4	130	698	1	Standard
⌈>	**Ge**	**72**		ug/L			25706	17631	2	KED
|	**Cu**	**63**	**0.003**	ug/L	0.004	109	35	31	21	KED
|	**Cu**	**65**	**0.000**	ug/L	0.009	2201	25	17	49	KED
|	**Zn**	**66**	**0.031**	ug/L	0.044	143	24	25	48	KED
|	**Zn**	**67**	**0.027**	ug/L	0.024	87	1	2	43	KED
⌊	**As**	**75**	**0.002**	ug/L	0.014	633	7	5	33	KED
	Y	**89**		ug/L			261919	248488	2	Standard
	Kr	**83**		ug/L			60	51	13	Standard
⌈>	**In-1**	**115**		ug/L			7141	7183	3	KED
|	**Cd**	**111**	**0.013**	ug/L	0.006	50	2	5	28	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.011	241	3	6	97	KED
⌈>	**In**	**115**		ug/L			388851	378376	2	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	2	59	30	0	Standard
⌈>	**Tb**	**159**		ug/L			618478	587861	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	5	110	58	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, January 13, 2023 04:49:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\011223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			37442	40232	1	Standard
	Cl	**37**		ug/L			3935892	3860857	1	Standard
⌈>	**Sc**	**45**		ug/L			508823	494660	2	Standard
|	**Cr**	**52**	**-0.040**	ug/L	0.017	41	14729	13612	2	Standard
⌊	**Cr**	**53**	**0.262**	ug/L	0.018	6	130	673	4	Standard
⌈>	**Ge**	**72**		ug/L			25706	18347	4	KED
|	**Cu**	**63**	**0.001**	ug/L	0.004	367	35	27	33	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.008	225	25	14	52	KED
|	**Zn**	**66**	**0.039**	ug/L	0.014	35	24	28	13	KED
|	**Zn**	**67**	**0.094**	ug/L	0.084	88	1	5	66	KED
⌊	**As**	**75**	**0.007**	ug/L	0.009	124	7	6	17	KED
	Y	**89**		ug/L			261919	251181	1	Standard
	Kr	**83**		ug/L			60	47	24	Standard
⌈>	**In-1**	**115**		ug/L			7141	7421	3	KED
|	**Cd**	**111**	**0.002**	ug/L	0.008	373	2	3	56	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.007	531	3	3	125	KED
⌈>	**In**	**115**		ug/L			388851	371104	1	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.001	29	59	35	18	Standard
⌈>	**Tb**	**159**		ug/L			618478	591821	0	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	2	110	40	4	Standard

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Control Limt: +/- 10.00%
Sequence: SLA0097

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0097-ICV1	Arsenic-75a	50.000	47.0	94.0	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.9	99.7	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	47.6	95.2	ug/L	PA 6020B UCT-KE
SLA0097-CCV1	Arsenic-75a	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.8	97.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.9	97.7	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	47.8	95.6	ug/L	PA 6020B UCT-KE
SLA0097-CCV2	Arsenic-75a	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.9	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.0	98.1	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLA0097-CCV3	Arsenic-75a	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.6	99.3	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.8	97.5	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.1	98.1	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
SLA0097-CCV4	Arsenic-75a	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.4	96.9	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Control Limt: +/- 10.00%
Sequence: SLA0097

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0097-CCV4	Zinc-67	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
SLA0097-CCV5	Arsenic-75a	50.000	49.4	98.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.6	97.1	ug/L	PA 6020B UCT-KE
SLA0097-CCV6	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.8	97.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.9	99.7	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.4	101	ug/L	PA 6020B UCT-KE
SLA0097-CCV7	Arsenic-75a	50.000	49.4	98.7	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.4	98.9	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.0	98.0	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.3	98.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.4	98.7	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.4	96.8	ug/L	PA 6020B UCT-KE
SLA0097-CCV8	Arsenic-75a	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.1	100	ug/L	PA 6020B UCT-KE
SLA0097-CCV9	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.6	101	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Control Limt: +/- 10.00%
Sequence: SLA0097

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0097-CCV9	Zinc-66	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
SLA0097-CCVA	Arsenic-75a	50.000	49.3	98.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.2	98.5	ug/L	PA 6020B UCT-KE
SLA0097-CCVB	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.6	99.3	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.4	98.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
SLA0097-CCVC	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLA0097-CCVD	Arsenic-75a	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLA0097-CCVE	Arsenic-75a	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Control Limt: +/- 10.00%
Sequence: SLA0097

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0097-CCVE	Copper-65	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLA0097-CCVF	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	53.5	107	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.2	102	ug/L	PA 6020B UCT-KE
SLA0097-CCVG	Arsenic-75a	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	53.0	106	ug/L	PA 6020B UCT-KE
SLA0097-CCVH	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.9	102	ug/L	PA 6020B UCT-KE
SLA0097-CCVI	Arsenic-75a	50.000	49.4	98.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.9	102	ug/L	PA 6020B UCT-KE
SLA0097-CCVJ	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.4	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Control Limt: +/- 10.00%
Sequence: SLA0097

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0097-CCVJ	Copper-63	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLA0097-CCVK	Arsenic-75a	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.1	102	ug/L	PA 6020B UCT-KE
SLA0097-CCVL	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.3	101	ug/L	PA 6020B UCT-KE
SLA0097-CCVM	Arsenic-75a	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	53.2	106	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Control Limt: +/- 10.00%

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00033
Sequence: SLA0147

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0147-ICV1	Arsenic-75a	50.000	46.8	93.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.5	97.0	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.4	98.7	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.2	98.5	ug/L	PA 6020B UCT-KE
SLA0147-CCV1	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLA0147-CCV2	Arsenic-75a	50.000	49.3	98.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.1	98.1	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
SLA0147-CCV3	Arsenic-75a	50.000	47.8	95.7	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	47.8	95.6	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	47.2	94.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	48.8	97.6	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.6	97.2	ug/L	PA 6020B UCT-KE
SLA0147-CCV4	Arsenic-75a	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.4	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Control Limt: +/- 10.00%
Sequence: SLA0147

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0147-CCV4	Zinc-67	50.000	50.5	101	ug/L	PA 6020B UCT-KE
SLA0147-CCV5	Arsenic-75a	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
SLA0147-CCV6	Arsenic-75a	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.0	100	ug/L	PA 6020B UCT-KE
SLA0147-CCV7	Arsenic-75a	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.9	97.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.1	100	ug/L	PA 6020B UCT-KE
SLA0147-CCV8	Arsenic-75a	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLA0147-CCV9	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.6	99.3	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Control Limt: +/- 10.00%
Sequence: SLA0147

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0147-CCV9	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLA0147-CCVA	Arsenic-75a	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
SLA0147-CCVB	Arsenic-75a	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.1	102	ug/L	PA 6020B UCT-KE
SLA0147-CCVC	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.2	102	ug/L	PA 6020B UCT-KE
SLA0147-CCVD	Arsenic-75a	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.3	96.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.2	96.5	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	56.4	113	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	55.5	111	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	53.3	107	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.9	106	ug/L	PA 6020B UCT-KE
SLA0147-CCVE	Arsenic-75a	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.0	96.0	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	47.3	94.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	55.4	111	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Control Limt: +/- 10.00%
Sequence: SLA0147

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0147-CCVE	Copper-65	50.000	54.9	110	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.9	104	ug/L	PA 6020B UCT-KE
SLA0147-CCVF	Arsenic-75a	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	59.1	118	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	57.6	115	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	54.9	110	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	54.3	109	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0097

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00024
Date Analyzed: 01/09/23 14:38

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0097-IBL1	Arsenic-75a	0.0170	0.0373	0.200	ug/L	
SLA0097-IBL1	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SLA0097-IBL1	Cadmium-114	0.00	0.04	0.100	ug/L	
SLA0097-IBL1	Copper-63	-0.00400	0.173	0.500	ug/L	
SLA0097-IBL1	Copper-65	-0.00900	0.35	0.500	ug/L	
SLA0097-IBL1	Zinc-66	0.0130	2.92	6.00	ug/L	
SLA0097-IBL1	Zinc-67	0.0380	0.94	6.00	ug/L	
SLA0097-ICB1	Arsenic-75a	0.00900	0.0373	0.200	ug/L	
SLA0097-ICB1	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLA0097-ICB1	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLA0097-ICB1	Copper-63	-0.00400	0.173	0.500	ug/L	
SLA0097-ICB1	Copper-65	-0.00500	0.35	0.500	ug/L	
SLA0097-ICB1	Zinc-66	0.0080	2.92	6.00	ug/L	
SLA0097-ICB1	Zinc-67	-0.0010	0.94	6.00	ug/L	
SLA0097-CCB1	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLA0097-CCB1	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLA0097-CCB1	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLA0097-CCB1	Copper-63	-0.00300	0.173	0.500	ug/L	
SLA0097-CCB1	Copper-65	-0.00900	0.35	0.500	ug/L	
SLA0097-CCB1	Zinc-66	-0.0200	2.92	6.00	ug/L	
SLA0097-CCB1	Zinc-67	-0.0070	0.94	6.00	ug/L	
SLA0097-IBL2	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLA0097-IBL2	Cadmium-111	-0.0140	0.03	0.100	ug/L	
SLA0097-IBL2	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLA0097-IBL2	Copper-63	0.0180	0.173	0.500	ug/L	
SLA0097-IBL2	Copper-65	0.0130	0.35	0.500	ug/L	
SLA0097-IBL2	Zinc-66	0.0140	2.92	6.00	ug/L	
SLA0097-IBL2	Zinc-67	0.0200	0.94	6.00	ug/L	
SLA0097-CCB2	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLA0097-CCB2	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SLA0097-CCB2	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLA0097-CCB2	Copper-63	-0.00300	0.173	0.500	ug/L	
SLA0097-CCB2	Copper-65	-0.00800	0.35	0.500	ug/L	
SLA0097-CCB2	Zinc-66	-0.0040	2.92	6.00	ug/L	
SLA0097-CCB2	Zinc-67	-0.0240	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Sequence: SLA0097
Date Analyzed: 01/09/23 16:46

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0097-IBL3	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLA0097-IBL3	Cadmium-111	-0.0100	0.03	0.100	ug/L	
SLA0097-IBL3	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLA0097-IBL3	Copper-63	-0.00700	0.173	0.500	ug/L	
SLA0097-IBL3	Copper-65	-0.0170	0.35	0.500	ug/L	
SLA0097-IBL3	Zinc-66	-0.0800	2.92	6.00	ug/L	
SLA0097-IBL3	Zinc-67	-0.0560	0.94	6.00	ug/L	
SLA0097-CCB3	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLA0097-CCB3	Cadmium-111	-0.0140	0.03	0.100	ug/L	
SLA0097-CCB3	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLA0097-CCB3	Copper-63	-0.00500	0.173	0.500	ug/L	
SLA0097-CCB3	Copper-65	-0.0150	0.35	0.500	ug/L	
SLA0097-CCB3	Zinc-66	0.0150	2.92	6.00	ug/L	
SLA0097-CCB3	Zinc-67	-0.0430	0.94	6.00	ug/L	
SLA0097-IBL4	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLA0097-IBL4	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLA0097-IBL4	Cadmium-114	0.00500	0.04	0.100	ug/L	
SLA0097-IBL4	Copper-63	-0.00900	0.173	0.500	ug/L	
SLA0097-IBL4	Copper-65	-0.0160	0.35	0.500	ug/L	
SLA0097-IBL4	Zinc-66	-0.0770	2.92	6.00	ug/L	
SLA0097-IBL4	Zinc-67	-0.0660	0.94	6.00	ug/L	
SLA0097-CCB4	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLA0097-CCB4	Cadmium-111	-0.0150	0.03	0.100	ug/L	
SLA0097-CCB4	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLA0097-CCB4	Copper-63	-0.00400	0.173	0.500	ug/L	
SLA0097-CCB4	Copper-65	-0.00400	0.35	0.500	ug/L	
SLA0097-CCB4	Zinc-66	0.0070	2.92	6.00	ug/L	
SLA0097-CCB4	Zinc-67	0.0360	0.94	6.00	ug/L	
SLA0097-IBL5	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLA0097-IBL5	Cadmium-111	-0.0140	0.03	0.100	ug/L	
SLA0097-IBL5	Cadmium-114	0.00	0.04	0.100	ug/L	
SLA0097-IBL5	Copper-63	-0.00900	0.173	0.500	ug/L	
SLA0097-IBL5	Copper-65	-0.0100	0.35	0.500	ug/L	
SLA0097-IBL5	Zinc-66	-0.0600	2.92	6.00	ug/L	
SLA0097-IBL5	Zinc-67	-0.0560	0.94	6.00	ug/L	
SLA0097-CCB5	Arsenic-75a	0.00400	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0097

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00024
Date Analyzed: 01/09/23 19:01

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0097-CCB5	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLA0097-CCB5	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLA0097-CCB5	Copper-63	0.00	0.173	0.500	ug/L	
SLA0097-CCB5	Copper-65	-0.00600	0.35	0.500	ug/L	
SLA0097-CCB5	Zinc-66	0.0130	2.92	6.00	ug/L	
SLA0097-CCB5	Zinc-67	-0.0100	0.94	6.00	ug/L	
SLA0097-CCB6	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLA0097-CCB6	Cadmium-111	-0.0130	0.03	0.100	ug/L	
SLA0097-CCB6	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLA0097-CCB6	Copper-63	-0.00300	0.173	0.500	ug/L	
SLA0097-CCB6	Copper-65	-0.00900	0.35	0.500	ug/L	
SLA0097-CCB6	Zinc-66	0.0520	2.92	6.00	ug/L	
SLA0097-CCB6	Zinc-67	0.0080	0.94	6.00	ug/L	
SLA0097-CCB7	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLA0097-CCB7	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLA0097-CCB7	Cadmium-114	-0.00700	0.04	0.100	ug/L	
SLA0097-CCB7	Copper-63	0.00200	0.173	0.500	ug/L	
SLA0097-CCB7	Copper-65	-0.00400	0.35	0.500	ug/L	
SLA0097-CCB7	Zinc-66	0.0030	2.92	6.00	ug/L	
SLA0097-CCB7	Zinc-67	0.0200	0.94	6.00	ug/L	
SLA0097-CCB8	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLA0097-CCB8	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLA0097-CCB8	Cadmium-114	-0.00700	0.04	0.100	ug/L	
SLA0097-CCB8	Copper-63	0.00300	0.173	0.500	ug/L	
SLA0097-CCB8	Copper-65	-0.00600	0.35	0.500	ug/L	
SLA0097-CCB8	Zinc-66	-0.0210	2.92	6.00	ug/L	
SLA0097-CCB8	Zinc-67	0.0500	0.94	6.00	ug/L	
SLA0097-CCB9	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLA0097-CCB9	Cadmium-111	0.0110	0.03	0.100	ug/L	
SLA0097-CCB9	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLA0097-CCB9	Copper-63	0.00300	0.173	0.500	ug/L	
SLA0097-CCB9	Copper-65	-0.00600	0.35	0.500	ug/L	
SLA0097-CCB9	Zinc-66	-0.0010	2.92	6.00	ug/L	
SLA0097-CCB9	Zinc-67	0.0520	0.94	6.00	ug/L	
SLA0097-CCBA	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLA0097-CCBA	Cadmium-111	0.00	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0097

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00024
Date Analyzed: 01/09/23 23:27

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0097-CCBA	Cadmium-114	-0.0110	0.04	0.100	ug/L	
SLA0097-CCBA	Copper-63	0.00100	0.173	0.500	ug/L	
SLA0097-CCBA	Copper-65	-0.00400	0.35	0.500	ug/L	
SLA0097-CCBA	Zinc-66	-0.0180	2.92	6.00	ug/L	
SLA0097-CCBA	Zinc-67	0.0400	0.94	6.00	ug/L	
SLA0097-IBL6	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLA0097-IBL6	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLA0097-IBL6	Cadmium-114	-0.00800	0.04	0.100	ug/L	
SLA0097-IBL6	Copper-63	0.00400	0.173	0.500	ug/L	
SLA0097-IBL6	Copper-65	-0.00600	0.35	0.500	ug/L	
SLA0097-IBL6	Zinc-66	0.0170	2.92	6.00	ug/L	
SLA0097-IBL6	Zinc-67	0.0650	0.94	6.00	ug/L	
SLA0097-IBL7	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLA0097-IBL7	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLA0097-IBL7	Cadmium-114	-0.00600	0.04	0.100	ug/L	
SLA0097-IBL7	Copper-63	0.00900	0.173	0.500	ug/L	
SLA0097-IBL7	Copper-65	0.00600	0.35	0.500	ug/L	
SLA0097-IBL7	Zinc-66	0.0200	2.92	6.00	ug/L	
SLA0097-IBL7	Zinc-67	0.0150	0.94	6.00	ug/L	
SLA0097-CCBB	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLA0097-CCBB	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLA0097-CCBB	Cadmium-114	-0.0100	0.04	0.100	ug/L	
SLA0097-CCBB	Copper-63	0.00	0.173	0.500	ug/L	
SLA0097-CCBB	Copper-65	-0.00400	0.35	0.500	ug/L	
SLA0097-CCBB	Zinc-66	-0.0230	2.92	6.00	ug/L	
SLA0097-CCBB	Zinc-67	0.0180	0.94	6.00	ug/L	
SLA0097-CCBC	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLA0097-CCBC	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLA0097-CCBC	Cadmium-114	-0.00900	0.04	0.100	ug/L	
SLA0097-CCBC	Copper-63	0.00	0.173	0.500	ug/L	
SLA0097-CCBC	Copper-65	-0.00200	0.35	0.500	ug/L	
SLA0097-CCBC	Zinc-66	-0.0210	2.92	6.00	ug/L	
SLA0097-CCBC	Zinc-67	0.0140	0.94	6.00	ug/L	
SLA0097-CCBD	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLA0097-CCBD	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLA0097-CCBD	Cadmium-114	-0.00700	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0097

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00024
Date Analyzed: 01/10/23 01:36

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0097-CCBD	Copper-63	-0.00200	0.173	0.500	ug/L	
SLA0097-CCBD	Copper-65	-0.00200	0.35	0.500	ug/L	
SLA0097-CCBD	Zinc-66	-0.0040	2.92	6.00	ug/L	
SLA0097-CCBD	Zinc-67	-0.0090	0.94	6.00	ug/L	
SLA0097-CCBE	Arsenic-75a	0.0120	0.0373	0.200	ug/L	
SLA0097-CCBE	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLA0097-CCBE	Cadmium-114	-0.00800	0.04	0.100	ug/L	
SLA0097-CCBE	Copper-63	-0.00300	0.173	0.500	ug/L	
SLA0097-CCBE	Copper-65	-0.00400	0.35	0.500	ug/L	
SLA0097-CCBE	Zinc-66	-0.0390	2.92	6.00	ug/L	
SLA0097-CCBE	Zinc-67	-0.0180	0.94	6.00	ug/L	
SLA0097-CCBF	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLA0097-CCBF	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLA0097-CCBF	Cadmium-114	-0.00600	0.04	0.100	ug/L	
SLA0097-CCBF	Copper-63	0.00600	0.173	0.500	ug/L	
SLA0097-CCBF	Copper-65	0.00700	0.35	0.500	ug/L	
SLA0097-CCBF	Zinc-66	0.0590	2.92	6.00	ug/L	
SLA0097-CCBF	Zinc-67	0.0320	0.94	6.00	ug/L	
SLA0097-CCBG	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLA0097-CCBG	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLA0097-CCBG	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLA0097-CCBG	Copper-63	0.00400	0.173	0.500	ug/L	
SLA0097-CCBG	Copper-65	0.00700	0.35	0.500	ug/L	
SLA0097-CCBG	Zinc-66	0.0600	2.92	6.00	ug/L	
SLA0097-CCBG	Zinc-67	0.0700	0.94	6.00	ug/L	
SLA0097-CCBH	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLA0097-CCBH	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLA0097-CCBH	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLA0097-CCBH	Copper-63	0.00600	0.173	0.500	ug/L	
SLA0097-CCBH	Copper-65	0.00100	0.35	0.500	ug/L	
SLA0097-CCBH	Zinc-66	0.0580	2.92	6.00	ug/L	
SLA0097-CCBH	Zinc-67	0.0740	0.94	6.00	ug/L	
SLA0097-CCBI	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLA0097-CCBI	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SLA0097-CCBI	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLA0097-CCBI	Copper-63	0.0100	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0097

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00024
Date Analyzed: 01/10/23 05:46

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0097-CCBI	Copper-65	0.00700	0.35	0.500	ug/L	
SLA0097-CCBI	Zinc-66	0.0650	2.92	6.00	ug/L	
SLA0097-CCBI	Zinc-67	0.177	0.94	6.00	ug/L	
SLA0097-IBL8	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLA0097-IBL8	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLA0097-IBL8	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLA0097-IBL8	Copper-63	0.00500	0.173	0.500	ug/L	
SLA0097-IBL8	Copper-65	-0.00300	0.35	0.500	ug/L	
SLA0097-IBL8	Zinc-66	0.0090	2.92	6.00	ug/L	
SLA0097-IBL8	Zinc-67	-0.0020	0.94	6.00	ug/L	
SLA0097-CCBJ	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLA0097-CCBJ	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLA0097-CCBJ	Cadmium-114	0.00	0.04	0.100	ug/L	
SLA0097-CCBJ	Copper-63	0.00500	0.173	0.500	ug/L	
SLA0097-CCBJ	Copper-65	0.00700	0.35	0.500	ug/L	
SLA0097-CCBJ	Zinc-66	0.0940	2.92	6.00	ug/L	
SLA0097-CCBJ	Zinc-67	0.0820	0.94	6.00	ug/L	
SLA0097-IBL9	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLA0097-IBL9	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLA0097-IBL9	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLA0097-IBL9	Copper-63	0.00800	0.173	0.500	ug/L	
SLA0097-IBL9	Copper-65	0.00300	0.35	0.500	ug/L	
SLA0097-IBL9	Zinc-66	0.0190	2.92	6.00	ug/L	
SLA0097-IBL9	Zinc-67	0.0900	0.94	6.00	ug/L	
SLA0097-CCBK	Arsenic-75a	0.0160	0.0373	0.200	ug/L	
SLA0097-CCBK	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLA0097-CCBK	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLA0097-CCBK	Copper-63	0.0280	0.173	0.500	ug/L	
SLA0097-CCBK	Copper-65	0.0290	0.35	0.500	ug/L	
SLA0097-CCBK	Zinc-66	0.124	2.92	6.00	ug/L	
SLA0097-CCBK	Zinc-67	0.204	0.94	6.00	ug/L	
SLA0097-CCBL	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLA0097-CCBL	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLA0097-CCBL	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLA0097-CCBL	Copper-63	0.0100	0.173	0.500	ug/L	
SLA0097-CCBL	Copper-65	0.00600	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Sequence: SLA0097
Date Analyzed: 01/10/23 08:39

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0097-CCBL	Zinc-66	0.0620	2.92	6.00	ug/L	
SLA0097-CCBL	Zinc-67	0.0710	0.94	6.00	ug/L	
SLA0097-CCBM	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLA0097-CCBM	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLA0097-CCBM	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLA0097-CCBM	Copper-63	0.00800	0.173	0.500	ug/L	
SLA0097-CCBM	Copper-65	0.0120	0.35	0.500	ug/L	
SLA0097-CCBM	Zinc-66	0.0860	2.92	6.00	ug/L	
SLA0097-CCBM	Zinc-67	0.205	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0147

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00033
Date Analyzed: 01/12/23 16:12

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0147-IBL1	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLA0147-IBL1	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLA0147-IBL1	Cadmium-114	-0.00600	0.04	0.100	ug/L	
SLA0147-IBL1	Copper-63	-0.00700	0.173	0.500	ug/L	
SLA0147-IBL1	Copper-65	-0.0110	0.35	0.500	ug/L	
SLA0147-IBL1	Zinc-66	-0.0290	2.92	6.00	ug/L	
SLA0147-IBL1	Zinc-67	-0.0720	0.94	6.00	ug/L	
SLA0147-ICB1	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLA0147-ICB1	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLA0147-ICB1	Cadmium-114	-0.00700	0.04	0.100	ug/L	
SLA0147-ICB1	Copper-63	-0.00300	0.173	0.500	ug/L	
SLA0147-ICB1	Copper-65	-0.0100	0.35	0.500	ug/L	
SLA0147-ICB1	Zinc-66	-0.0410	2.92	6.00	ug/L	
SLA0147-ICB1	Zinc-67	-0.0640	0.94	6.00	ug/L	
SLA0147-CCB1	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLA0147-CCB1	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLA0147-CCB1	Cadmium-114	-0.00400	0.04	0.100	ug/L	
SLA0147-CCB1	Copper-63	-0.00600	0.173	0.500	ug/L	
SLA0147-CCB1	Copper-65	-0.0100	0.35	0.500	ug/L	
SLA0147-CCB1	Zinc-66	-0.0380	2.92	6.00	ug/L	
SLA0147-CCB1	Zinc-67	-0.0530	0.94	6.00	ug/L	
SLA0147-IBL2	Arsenic-75a	0.0120	0.0373	0.200	ug/L	
SLA0147-IBL2	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLA0147-IBL2	Cadmium-114	-0.00400	0.04	0.100	ug/L	
SLA0147-IBL2	Copper-63	0.00700	0.173	0.500	ug/L	
SLA0147-IBL2	Copper-65	0.00800	0.35	0.500	ug/L	
SLA0147-IBL2	Zinc-66	0.0160	2.92	6.00	ug/L	
SLA0147-IBL2	Zinc-67	-0.0290	0.94	6.00	ug/L	
SLA0147-CCB2	Arsenic-75a	0.0130	0.0373	0.200	ug/L	
SLA0147-CCB2	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLA0147-CCB2	Cadmium-114	-0.00900	0.04	0.100	ug/L	
SLA0147-CCB2	Copper-63	-0.00700	0.173	0.500	ug/L	
SLA0147-CCB2	Copper-65	-0.00700	0.35	0.500	ug/L	
SLA0147-CCB2	Zinc-66	-0.0540	2.92	6.00	ug/L	
SLA0147-CCB2	Zinc-67	-0.0430	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0147

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00033
Date Analyzed: 01/12/23 18:31

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0147-IBL3	Arsenic-75a	0.00900	0.0373	0.200	ug/L	
SLA0147-IBL3	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLA0147-IBL3	Cadmium-114	-0.00400	0.04	0.100	ug/L	
SLA0147-IBL3	Copper-63	-0.00100	0.173	0.500	ug/L	
SLA0147-IBL3	Copper-65	0.00	0.35	0.500	ug/L	
SLA0147-IBL3	Zinc-66	0.0010	2.92	6.00	ug/L	
SLA0147-IBL3	Zinc-67	0.0540	0.94	6.00	ug/L	
SLA0147-CCB3	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLA0147-CCB3	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLA0147-CCB3	Cadmium-114	-0.0120	0.04	0.100	ug/L	
SLA0147-CCB3	Copper-63	-0.00800	0.173	0.500	ug/L	
SLA0147-CCB3	Copper-65	-0.0100	0.35	0.500	ug/L	
SLA0147-CCB3	Zinc-66	-0.0460	2.92	6.00	ug/L	
SLA0147-CCB3	Zinc-67	-0.0190	0.94	6.00	ug/L	
SLA0147-CCB4	Arsenic-75a	0.0110	0.0373	0.200	ug/L	
SLA0147-CCB4	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLA0147-CCB4	Cadmium-114	-0.00700	0.04	0.100	ug/L	
SLA0147-CCB4	Copper-63	-0.00700	0.173	0.500	ug/L	
SLA0147-CCB4	Copper-65	-0.0110	0.35	0.500	ug/L	
SLA0147-CCB4	Zinc-66	-0.0510	2.92	6.00	ug/L	
SLA0147-CCB4	Zinc-67	-0.0380	0.94	6.00	ug/L	
SLA0147-CCB5	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLA0147-CCB5	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLA0147-CCB5	Cadmium-114	-0.00700	0.04	0.100	ug/L	
SLA0147-CCB5	Copper-63	-0.00100	0.173	0.500	ug/L	
SLA0147-CCB5	Copper-65	0.00400	0.35	0.500	ug/L	
SLA0147-CCB5	Zinc-66	-0.0180	2.92	6.00	ug/L	
SLA0147-CCB5	Zinc-67	0.0200	0.94	6.00	ug/L	
SLA0147-IBL4	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLA0147-IBL4	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLA0147-IBL4	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLA0147-IBL4	Copper-63	0.0130	0.173	0.500	ug/L	
SLA0147-IBL4	Copper-65	0.0130	0.35	0.500	ug/L	
SLA0147-IBL4	Zinc-66	0.0300	2.92	6.00	ug/L	
SLA0147-IBL4	Zinc-67	0.0350	0.94	6.00	ug/L	
SLA0147-CCB6	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0147

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00033
Date Analyzed: 01/12/23 21:22

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0147-CCB6	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLA0147-CCB6	Cadmium-114	-0.00400	0.04	0.100	ug/L	
SLA0147-CCB6	Copper-63	0.00200	0.173	0.500	ug/L	
SLA0147-CCB6	Copper-65	0.00	0.35	0.500	ug/L	
SLA0147-CCB6	Zinc-66	-0.0210	2.92	6.00	ug/L	
SLA0147-CCB6	Zinc-67	-0.0150	0.94	6.00	ug/L	
SLA0147-IBL5	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLA0147-IBL5	Cadmium-111	0.00	0.03	0.100	ug/L	
SLA0147-IBL5	Cadmium-114	0.00	0.04	0.100	ug/L	
SLA0147-IBL5	Copper-63	0.00100	0.173	0.500	ug/L	
SLA0147-IBL5	Copper-65	0.00300	0.35	0.500	ug/L	
SLA0147-IBL5	Zinc-66	0.0110	2.92	6.00	ug/L	
SLA0147-IBL5	Zinc-67	0.0380	0.94	6.00	ug/L	
SLA0147-CCB7	Arsenic-75a	0.0110	0.0373	0.200	ug/L	
SLA0147-CCB7	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLA0147-CCB7	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLA0147-CCB7	Copper-63	-0.00100	0.173	0.500	ug/L	
SLA0147-CCB7	Copper-65	0.00100	0.35	0.500	ug/L	
SLA0147-CCB7	Zinc-66	-0.0180	2.92	6.00	ug/L	
SLA0147-CCB7	Zinc-67	-0.0090	0.94	6.00	ug/L	
SLA0147-IBL6	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLA0147-IBL6	Cadmium-111	0.00	0.03	0.100	ug/L	
SLA0147-IBL6	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLA0147-IBL6	Copper-63	0.00300	0.173	0.500	ug/L	
SLA0147-IBL6	Copper-65	0.00900	0.35	0.500	ug/L	
SLA0147-IBL6	Zinc-66	0.0060	2.92	6.00	ug/L	
SLA0147-IBL6	Zinc-67	0.0680	0.94	6.00	ug/L	
SLA0147-CCB8	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLA0147-CCB8	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLA0147-CCB8	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLA0147-CCB8	Copper-63	0.00300	0.173	0.500	ug/L	
SLA0147-CCB8	Copper-65	0.00500	0.35	0.500	ug/L	
SLA0147-CCB8	Zinc-66	-0.0090	2.92	6.00	ug/L	
SLA0147-CCB8	Zinc-67	0.0380	0.94	6.00	ug/L	
SLA0147-IBL7	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLA0147-IBL7	Cadmium-111	0.00200	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0147

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00033
Date Analyzed: 01/13/23 00:02

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0147-IBL7	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLA0147-IBL7	Copper-63	0.00200	0.173	0.500	ug/L	
SLA0147-IBL7	Copper-65	0.00300	0.35	0.500	ug/L	
SLA0147-IBL7	Zinc-66	0.0350	2.92	6.00	ug/L	
SLA0147-IBL7	Zinc-67	0.0180	0.94	6.00	ug/L	
SLA0147-CCB9	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLA0147-CCB9	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLA0147-CCB9	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLA0147-CCB9	Copper-63	0.00200	0.173	0.500	ug/L	
SLA0147-CCB9	Copper-65	0.00200	0.35	0.500	ug/L	
SLA0147-CCB9	Zinc-66	0.0040	2.92	6.00	ug/L	
SLA0147-CCB9	Zinc-67	0.0170	0.94	6.00	ug/L	
SLA0147-IBL8	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLA0147-IBL8	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLA0147-IBL8	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLA0147-IBL8	Copper-63	0.00500	0.173	0.500	ug/L	
SLA0147-IBL8	Copper-65	0.00200	0.35	0.500	ug/L	
SLA0147-IBL8	Zinc-66	0.0010	2.92	6.00	ug/L	
SLA0147-IBL8	Zinc-67	0.0280	0.94	6.00	ug/L	
SLA0147-CCBA	Arsenic-75a	0.0100	0.0373	0.200	ug/L	
SLA0147-CCBA	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLA0147-CCBA	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLA0147-CCBA	Copper-63	0.00100	0.173	0.500	ug/L	
SLA0147-CCBA	Copper-65	0.00100	0.35	0.500	ug/L	
SLA0147-CCBA	Zinc-66	-0.0110	2.92	6.00	ug/L	
SLA0147-CCBA	Zinc-67	-0.0170	0.94	6.00	ug/L	
SLA0147-CCBB	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLA0147-CCBB	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLA0147-CCBB	Cadmium-114	0.00	0.04	0.100	ug/L	
SLA0147-CCBB	Copper-63	-0.00100	0.173	0.500	ug/L	
SLA0147-CCBB	Copper-65	-0.00700	0.35	0.500	ug/L	
SLA0147-CCBB	Zinc-66	-0.0170	2.92	6.00	ug/L	
SLA0147-CCBB	Zinc-67	0.0580	0.94	6.00	ug/L	
SLA0147-IBL9	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLA0147-IBL9	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLA0147-IBL9	Cadmium-114	-0.00400	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLA0147

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00033
Date Analyzed: 01/13/23 02:08

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0147-IBL9	Copper-63	0.00200	0.173	0.500	ug/L	
SLA0147-IBL9	Copper-65	0.00400	0.35	0.500	ug/L	
SLA0147-IBL9	Zinc-66	0.0290	2.92	6.00	ug/L	
SLA0147-IBL9	Zinc-67	0.0470	0.94	6.00	ug/L	
SLA0147-CCBC	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLA0147-CCBC	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLA0147-CCBC	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLA0147-CCBC	Copper-63	-0.00300	0.173	0.500	ug/L	
SLA0147-CCBC	Copper-65	-0.0100	0.35	0.500	ug/L	
SLA0147-CCBC	Zinc-66	-0.0250	2.92	6.00	ug/L	
SLA0147-CCBC	Zinc-67	0.0180	0.94	6.00	ug/L	
SLA0147-IBLA	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLA0147-IBLA	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLA0147-IBLA	Cadmium-114	0.00	0.04	0.100	ug/L	
SLA0147-IBLA	Copper-63	0.00500	0.173	0.500	ug/L	
SLA0147-IBLA	Copper-65	-0.00200	0.35	0.500	ug/L	
SLA0147-IBLA	Zinc-66	0.0160	2.92	6.00	ug/L	
SLA0147-IBLA	Zinc-67	0.0500	0.94	6.00	ug/L	
SLA0147-CCBD	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLA0147-CCBD	Cadmium-111	0.00800	0.03	0.100	ug/L	
SLA0147-CCBD	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLA0147-CCBD	Copper-63	-0.00200	0.173	0.500	ug/L	
SLA0147-CCBD	Copper-65	-0.00800	0.35	0.500	ug/L	
SLA0147-CCBD	Zinc-66	-0.0190	2.92	6.00	ug/L	
SLA0147-CCBD	Zinc-67	0.103	0.94	6.00	ug/L	
SLA0147-IBLB	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLA0147-IBLB	Cadmium-111	0.0100	0.03	0.100	ug/L	
SLA0147-IBLB	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLA0147-IBLB	Copper-63	0.00400	0.173	0.500	ug/L	
SLA0147-IBLB	Copper-65	-0.00500	0.35	0.500	ug/L	
SLA0147-IBLB	Zinc-66	0.0290	2.92	6.00	ug/L	
SLA0147-IBLB	Zinc-67	0.0490	0.94	6.00	ug/L	
SLA0147-CCBE	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLA0147-CCBE	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLA0147-CCBE	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLA0147-CCBE	Copper-63	-0.00600	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Sequence: SLA0147
Date Analyzed: 01/13/23 03:46

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0147-CCBE	Copper-65	-0.00800	0.35	0.500	ug/L	
SLA0147-CCBE	Zinc-66	-0.0300	2.92	6.00	ug/L	
SLA0147-CCBE	Zinc-67	0.0170	0.94	6.00	ug/L	
SLA0147-IBLC	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLA0147-IBLC	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLA0147-IBLC	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLA0147-IBLC	Copper-63	0.00600	0.173	0.500	ug/L	
SLA0147-IBLC	Copper-65	-0.00300	0.35	0.500	ug/L	
SLA0147-IBLC	Zinc-66	0.0020	2.92	6.00	ug/L	
SLA0147-IBLC	Zinc-67	0.0930	0.94	6.00	ug/L	
SLA0147-CCBF	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLA0147-CCBF	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLA0147-CCBF	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLA0147-CCBF	Copper-63	-0.00200	0.173	0.500	ug/L	
SLA0147-CCBF	Copper-65	-0.00300	0.35	0.500	ug/L	
SLA0147-CCBF	Zinc-66	-0.0190	2.92	6.00	ug/L	
SLA0147-CCBF	Zinc-67	0.0270	0.94	6.00	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0097	Instrument:	ICPMS2
		Calibration:	GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLA0097-CAL1	XDT_m2230109-006	NA	01/09/23 14:07
CAL 1 - LOW CHECK	SLA0097-CAL2	XDT_m2230109-007	NA	01/09/23 14:11
CAL 2	SLA0097-CAL3	XDT_m2230109-008	NA	01/09/23 14:15
CAL 3	SLA0097-CAL4	XDT_m2230109-009	NA	01/09/23 14:20
CAL 4	SLA0097-CAL5	XDT_m2230109-010	NA	01/09/23 14:25
CAL 5	SLA0097-CAL6	XDT_m2230109-011	NA	01/09/23 14:31
RINSE	SLA0097-IBL1	XDT_m2230109-012	NA	01/09/23 14:38
Initial Cal Check	SLA0097-ICV1	XDT_m2230109-014	NA	01/09/23 14:45
Initial Cal Blank	SLA0097-ICB1	XDT_m2230109-015	NA	01/09/23 14:53
Calibration Check	SLA0097-CCV1	XDT_m2230109-016	NA	01/09/23 14:57
Calibration Blank	SLA0097-CCB1	XDT_m2230109-017	NA	01/09/23 15:04
Instrument RL Check	SLA0097-CRL1	XDT_m2230109-018	NA	01/09/23 15:09
Interference Check A	SLA0097-IFA1	XDT_m2230109-019	NA	01/09/23 15:16
Interference Check B	SLA0097-IFB1	XDT_m2230109-020	NA	01/09/23 15:20
LR200	SLA0097-HCV1	XDT_m2230109-021	NA	01/09/23 15:25
LR300	SLA0097-HCV2	XDT_m2230109-022	NA	01/09/23 15:30
Instrument Blank	SLA0097-IBL2	XDT_m2230109-023	NA	01/09/23 15:37
Calibration Check	SLA0097-CCV2	XDT_m2230109-024	NA	01/09/23 15:43
Calibration Blank	SLA0097-CCB2	XDT_m2230109-025	NA	01/09/23 15:50
Blank	BKL0608-BLK1	XDT_m2230109-026	Solid	01/09/23 15:59
LCS	BKL0608-BS1	XDT_m2230109-027	Solid	01/09/23 16:03
Instrument Blank	SLA0097-IBL3	XDT_m2230109-035	NA	01/09/23 16:46
Calibration Check	SLA0097-CCV3	XDT_m2230109-036	NA	01/09/23 16:51
Calibration Blank	SLA0097-CCB3	XDT_m2230109-037	NA	01/09/23 16:59
ZZZZZ	22L0199-43	XDT_m2230109-045	Solid	01/09/23 17:40
ZZZZZ	22L0199-44	XDT_m2230109-046	Solid	01/09/23 17:45
Instrument Blank	SLA0097-IBL4	XDT_m2230109-047	NA	01/09/23 17:49
Calibration Check	SLA0097-CCV4	XDT_m2230109-048	NA	01/09/23 17:54
Calibration Blank	SLA0097-CCB4	XDT_m2230109-049	NA	01/09/23 18:01

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLA0157-BLK1	XDT_m2230109-050	Water	01/09/23 18:07
ZZZZZ	BLA0157-BS1	XDT_m2230109-051	Water	01/09/23 18:11
ZZZZZ	22L0199-45	XDT_m2230109-056	Solid	01/09/23 18:36
ZZZZZ	22L0199-46	XDT_m2230109-057	Solid	01/09/23 18:41
ZZZZZ	22L0199-47	XDT_m2230109-058	Solid	01/09/23 18:45
Instrument Blank	SLA0097-IBL5	XDT_m2230109-059	NA	01/09/23 18:49
Calibration Check	SLA0097-CCV5	XDT_m2230109-060	NA	01/09/23 18:54
Calibration Blank	SLA0097-CCB5	XDT_m2230109-061	NA	01/09/23 19:01
ZZZZZ	22L0329-08	XDT_m2230109-065	Solid	01/09/23 19:21
ZZZZZ	22L0329-09	XDT_m2230109-066	Solid	01/09/23 19:25
ZZZZZ	22L0329-10	XDT_m2230109-067	Solid	01/09/23 19:29
ZZZZZ	22L0329-11	XDT_m2230109-068	Solid	01/09/23 19:34
ZZZZZ	22L0329-12	XDT_m2230109-069	Solid	01/09/23 19:38
ZZZZZ	22L0329-13	XDT_m2230109-070	Solid	01/09/23 19:43
ZZZZZ	22L0329-14	XDT_m2230109-071	Solid	01/09/23 19:47
Calibration Check	SLA0097-CCV6	XDT_m2230109-072	NA	01/09/23 19:54
Calibration Blank	SLA0097-CCB6	XDT_m2230109-073	NA	01/09/23 20:01
Calibration Check	SLA0097-CCV7	XDT_m2230109-075	NA	01/09/23 20:13
Calibration Blank	SLA0097-CCB7	XDT_m2230109-076	NA	01/09/23 20:20
ZZZZZ	22L0329-07	XDT_m2230109-077	Solid	01/09/23 20:29
ZZZZZ	22L0329-07	XDT_m2230109-077	Solid	01/09/23 20:29
ZZZZZ	22L0329-07	XDT_m2230109-077	Solid	01/09/23 20:29
ZZZZZ	22L0329-07	XDT_m2230109-077	Solid	01/09/23 20:29
ZZZZZ	22H0525-01	XDT_m2230109-082	Solid	01/09/23 20:53
ZZZZZ	22H0525-01	XDT_m2230109-082	Solid	01/09/23 20:53
ZZZZZ	22H0525-01	XDT_m2230109-082	Solid	01/09/23 20:53
ZZZZZ	22H0525-01	XDT_m2230109-082	Solid	01/09/23 20:53
ZZZZZ	22H0525-02	XDT_m2230109-083	Solid	01/09/23 20:57
ZZZZZ	22H0525-02	XDT_m2230109-083	Solid	01/09/23 20:57

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0525-02	XDT_m2230109-083	Solid	01/09/23 20:57
ZZZZZ	22H0525-02	XDT_m2230109-083	Solid	01/09/23 20:57
ZZZZZ	22H0525-03	XDT_m2230109-084	Solid	01/09/23 21:01
ZZZZZ	22H0525-03	XDT_m2230109-084	Solid	01/09/23 21:01
ZZZZZ	22H0525-03	XDT_m2230109-084	Solid	01/09/23 21:01
ZZZZZ	22H0525-03	XDT_m2230109-084	Solid	01/09/23 21:01
ZZZZZ	22H0525-04	XDT_m2230109-085	Solid	01/09/23 21:06
ZZZZZ	22H0525-04	XDT_m2230109-085	Solid	01/09/23 21:06
ZZZZZ	22H0525-04	XDT_m2230109-085	Solid	01/09/23 21:06
ZZZZZ	22H0525-04	XDT_m2230109-085	Solid	01/09/23 21:06
ZZZZZ	22H0525-05	XDT_m2230109-086	Solid	01/09/23 21:10
ZZZZZ	22H0525-05	XDT_m2230109-086	Solid	01/09/23 21:10
ZZZZZ	22H0525-05	XDT_m2230109-086	Solid	01/09/23 21:10
ZZZZZ	22H0525-05	XDT_m2230109-086	Solid	01/09/23 21:10
Calibration Check	SLA0097-CCV8	XDT_m2230109-087	NA	01/09/23 21:17
Calibration Blank	SLA0097-CCB8	XDT_m2230109-088	NA	01/09/23 21:24
ZZZZZ	BKL0006-SRL2	XDT_m2230109-089	Solid	01/09/23 21:30
ZZZZZ	22I0052-25	XDT_m2230109-090	Solid	01/09/23 21:35
ZZZZZ	BKL0006-DUP2	XDT_m2230109-091	Solid	01/09/23 21:43
ZZZZZ	BKL0006-MS2	XDT_m2230109-092	Solid	01/09/23 21:47
ZZZZZ	BKL0006-MSD2	XDT_m2230109-093	Solid	01/09/23 21:52
ZZZZZ	BKL0006-PS2	XDT_m2230109-094	Solid	01/09/23 21:56
ZZZZZ	22H0525-10	XDT_m2230109-095	Solid	01/09/23 22:01
ZZZZZ	22H0525-10	XDT_m2230109-095	Solid	01/09/23 22:01
ZZZZZ	22H0525-10	XDT_m2230109-095	Solid	01/09/23 22:01
ZZZZZ	22H0525-10	XDT_m2230109-095	Solid	01/09/23 22:01
ZZZZZ	22H0525-11	XDT_m2230109-096	Solid	01/09/23 22:05
ZZZZZ	22H0525-11	XDT_m2230109-096	Solid	01/09/23 22:05
ZZZZZ	22H0525-11	XDT_m2230109-096	Solid	01/09/23 22:05

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0525-11	XDT_m2230109-096	Solid	01/09/23 22:05
ZZZZZ	22H0525-12	XDT_m2230109-097	Solid	01/09/23 22:10
ZZZZZ	22H0525-12	XDT_m2230109-097	Solid	01/09/23 22:10
ZZZZZ	22H0525-12	XDT_m2230109-097	Solid	01/09/23 22:10
ZZZZZ	22H0525-12	XDT_m2230109-097	Solid	01/09/23 22:10
ZZZZZ	22H0525-13	XDT_m2230109-098	Solid	01/09/23 22:14
ZZZZZ	22H0525-13	XDT_m2230109-098	Solid	01/09/23 22:14
ZZZZZ	22H0525-13	XDT_m2230109-098	Solid	01/09/23 22:14
ZZZZZ	22H0525-13	XDT_m2230109-098	Solid	01/09/23 22:14
Calibration Check	SLA0097-CCV9	XDT_m2230109-099	NA	01/09/23 22:21
Calibration Blank	SLA0097-CCB9	XDT_m2230109-100	NA	01/09/23 22:29
ZZZZZ	BKL0035-SRL2	XDT_m2230109-101	Solid	01/09/23 22:33
ZZZZZ	22I0188-02	XDT_m2230109-102	Solid	01/09/23 22:37
ZZZZZ	BKL0035-DUP2	XDT_m2230109-103	Solid	01/09/23 22:42
ZZZZZ	BKL0035-MS2	XDT_m2230109-104	Solid	01/09/23 22:46
ZZZZZ	BKL0035-MSD2	XDT_m2230109-105	Solid	01/09/23 22:50
ZZZZZ	BKL0035-PS2	XDT_m2230109-106	Solid	01/09/23 22:55
ZZZZZ	22H0525-14	XDT_m2230109-107	Solid	01/09/23 23:00
ZZZZZ	22H0525-14	XDT_m2230109-107	Solid	01/09/23 23:00
ZZZZZ	22H0525-14	XDT_m2230109-107	Solid	01/09/23 23:00
ZZZZZ	22H0525-14	XDT_m2230109-107	Solid	01/09/23 23:00
ZZZZZ	22H0525-19	XDT_m2230109-108	Solid	01/09/23 23:04
ZZZZZ	22H0525-19	XDT_m2230109-108	Solid	01/09/23 23:04
ZZZZZ	22H0525-19	XDT_m2230109-108	Solid	01/09/23 23:04
ZZZZZ	22H0525-19	XDT_m2230109-108	Solid	01/09/23 23:04
ZZZZZ	22H0525-20	XDT_m2230109-109	Solid	01/09/23 23:08
ZZZZZ	22H0525-20	XDT_m2230109-109	Solid	01/09/23 23:08
ZZZZZ	22H0525-20	XDT_m2230109-109	Solid	01/09/23 23:08
ZZZZZ	22H0525-20	XDT_m2230109-109	Solid	01/09/23 23:08

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0525-21	XDT_m2230109-110	Solid	01/09/23 23:13
ZZZZZ	22H0525-21	XDT_m2230109-110	Solid	01/09/23 23:13
ZZZZZ	22H0525-21	XDT_m2230109-110	Solid	01/09/23 23:13
ZZZZZ	22H0525-21	XDT_m2230109-110	Solid	01/09/23 23:13
Calibration Check	SLA0097-CCVA	XDT_m2230109-111	NA	01/09/23 23:20
Calibration Blank	SLA0097-CCBA	XDT_m2230109-112	NA	01/09/23 23:27
Instrument Blank	SLA0097-IBL6	XDT_m2230109-114	NA	01/09/23 23:36
ZZZZZ	BKL0080-SRL2	XDT_m2230109-115	Solid	01/09/23 23:40
ZZZZZ	22I0188-20	XDT_m2230109-116	Solid	01/09/23 23:44
ZZZZZ	BKL0080-DUP2	XDT_m2230109-117	Solid	01/09/23 23:49
ZZZZZ	BKL0080-MS2	XDT_m2230109-118	Solid	01/09/23 23:53
ZZZZZ	BKL0080-MSD2	XDT_m2230109-119	Solid	01/09/23 23:58
ZZZZZ	BKL0080-PS2	XDT_m2230109-120	Solid	01/10/23 00:02
Instrument Blank	SLA0097-IBL7	XDT_m2230109-122	NA	01/10/23 00:11
Calibration Check	SLA0097-CCVB	XDT_m2230109-123	NA	01/10/23 00:15
Calibration Blank	SLA0097-CCBB	XDT_m2230109-124	NA	01/10/23 00:22
ZZZZZ	BKL0683-SRL2	XDT_m2230109-125	Solid	01/10/23 00:26
ZZZZZ	22J0097-31	XDT_m2230109-126	Solid	01/10/23 00:31
ZZZZZ	BKL0683-DUP2	XDT_m2230109-127	Solid	01/10/23 00:35
ZZZZZ	BKL0683-MS2	XDT_m2230109-128	Solid	01/10/23 00:40
ZZZZZ	BKL0683-MSD2	XDT_m2230109-129	Solid	01/10/23 00:44
ZZZZZ	22H0525-22	XDT_m2230109-131	Solid	01/10/23 00:53
ZZZZZ	22H0525-22	XDT_m2230109-131	Solid	01/10/23 00:53
ZZZZZ	22H0525-22	XDT_m2230109-131	Solid	01/10/23 00:53
ZZZZZ	22H0525-22	XDT_m2230109-131	Solid	01/10/23 00:53
ZZZZZ	22H0525-23	XDT_m2230109-132	Solid	01/10/23 00:57
ZZZZZ	22H0525-23	XDT_m2230109-132	Solid	01/10/23 00:57
ZZZZZ	22H0525-23	XDT_m2230109-132	Solid	01/10/23 00:57
ZZZZZ	22H0525-23	XDT_m2230109-132	Solid	01/10/23 00:57

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0525-24	XDT_m2230109-133	Solid	01/10/23 01:01
ZZZZZ	22H0525-24	XDT_m2230109-133	Solid	01/10/23 01:01
ZZZZZ	22H0525-24	XDT_m2230109-133	Solid	01/10/23 01:01
ZZZZZ	22H0525-24	XDT_m2230109-133	Solid	01/10/23 01:01
ZZZZZ	22H0525-31	XDT_m2230109-134	Solid	01/10/23 01:06
ZZZZZ	22H0525-31	XDT_m2230109-134	Solid	01/10/23 01:06
ZZZZZ	22H0525-31	XDT_m2230109-134	Solid	01/10/23 01:06
ZZZZZ	22H0525-31	XDT_m2230109-134	Solid	01/10/23 01:06
Calibration Check	SLA0097-CCVC	XDT_m2230109-135	NA	01/10/23 01:13
Calibration Blank	SLA0097-CCBC	XDT_m2230109-136	NA	01/10/23 01:20
Calibration Check	SLA0097-CCVD	XDT_m2230109-138	NA	01/10/23 01:29
Calibration Blank	SLA0097-CCBD	XDT_m2230109-139	NA	01/10/23 01:36
ZZZZZ	22H0525-32	XDT_m2230109-140	Solid	01/10/23 01:40
ZZZZZ	22H0525-32	XDT_m2230109-140	Solid	01/10/23 01:40
ZZZZZ	22H0525-32	XDT_m2230109-140	Solid	01/10/23 01:40
ZZZZZ	22H0525-32	XDT_m2230109-140	Solid	01/10/23 01:40
ZZZZZ	22H0525-33	XDT_m2230109-141	Solid	01/10/23 01:45
ZZZZZ	22H0525-33	XDT_m2230109-141	Solid	01/10/23 01:45
ZZZZZ	22H0525-33	XDT_m2230109-141	Solid	01/10/23 01:45
ZZZZZ	22H0525-33	XDT_m2230109-141	Solid	01/10/23 01:45
ZZZZZ	22H0525-34	XDT_m2230109-142	Solid	01/10/23 01:49
ZZZZZ	22H0525-34	XDT_m2230109-142	Solid	01/10/23 01:49
ZZZZZ	22H0525-34	XDT_m2230109-142	Solid	01/10/23 01:49
ZZZZZ	22H0525-34	XDT_m2230109-142	Solid	01/10/23 01:49
ZZZZZ	22H0525-35	XDT_m2230109-143	Solid	01/10/23 01:53
ZZZZZ	22H0525-35	XDT_m2230109-143	Solid	01/10/23 01:53
ZZZZZ	22H0525-35	XDT_m2230109-143	Solid	01/10/23 01:53
ZZZZZ	22H0525-35	XDT_m2230109-143	Solid	01/10/23 01:53
ZZZZZ	22H0525-36	XDT_m2230109-144	Solid	01/10/23 01:58

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0525-36	XDT_m2230109-144	Solid	01/10/23 01:58
ZZZZZ	22H0525-36	XDT_m2230109-144	Solid	01/10/23 01:58
ZZZZZ	22H0525-36	XDT_m2230109-144	Solid	01/10/23 01:58
ZZZZZ	22H0525-38	XDT_m2230109-145	Solid	01/10/23 02:02
ZZZZZ	22H0525-38	XDT_m2230109-145	Solid	01/10/23 02:02
ZZZZZ	22H0525-38	XDT_m2230109-145	Solid	01/10/23 02:02
ZZZZZ	22H0525-38	XDT_m2230109-145	Solid	01/10/23 02:02
ZZZZZ	22H0525-39	XDT_m2230109-146	Solid	01/10/23 02:06
ZZZZZ	22H0525-39	XDT_m2230109-146	Solid	01/10/23 02:06
ZZZZZ	22H0525-39	XDT_m2230109-146	Solid	01/10/23 02:06
ZZZZZ	22H0525-39	XDT_m2230109-146	Solid	01/10/23 02:06
ZZZZZ	22H0529-02	XDT_m2230109-147	Solid	01/10/23 02:11
ZZZZZ	22H0529-02	XDT_m2230109-147	Solid	01/10/23 02:11
ZZZZZ	22H0529-02	XDT_m2230109-147	Solid	01/10/23 02:11
ZZZZZ	22H0529-02	XDT_m2230109-147	Solid	01/10/23 02:11
ZZZZZ	22H0529-12	XDT_m2230109-148	Solid	01/10/23 02:15
ZZZZZ	22H0529-12	XDT_m2230109-148	Solid	01/10/23 02:15
ZZZZZ	22H0529-12	XDT_m2230109-148	Solid	01/10/23 02:15
ZZZZZ	22H0529-12	XDT_m2230109-148	Solid	01/10/23 02:15
ZZZZZ	22H0529-13	XDT_m2230109-149	Solid	01/10/23 02:20
ZZZZZ	22H0529-13	XDT_m2230109-149	Solid	01/10/23 02:20
ZZZZZ	22H0529-13	XDT_m2230109-149	Solid	01/10/23 02:20
ZZZZZ	22H0529-13	XDT_m2230109-149	Solid	01/10/23 02:20
Calibration Check	SLA0097-CCVE	XDT_m2230109-150	NA	01/10/23 02:27
Calibration Blank	SLA0097-CCBE	XDT_m2230109-151	NA	01/10/23 02:34
ZZZZZ	22H0529-14	XDT_m2230109-152	Solid	01/10/23 02:39
ZZZZZ	22H0529-14	XDT_m2230109-152	Solid	01/10/23 02:39
ZZZZZ	22H0529-14	XDT_m2230109-152	Solid	01/10/23 02:39
ZZZZZ	22H0529-14	XDT_m2230109-152	Solid	01/10/23 02:39

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0097
SDG: 22L0459
Project: AOC5 MR Phase 1
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0529-15	XDT_m2230109-153	Solid	01/10/23 02:43
ZZZZZ	22H0529-15	XDT_m2230109-153	Solid	01/10/23 02:43
ZZZZZ	22H0529-15	XDT_m2230109-153	Solid	01/10/23 02:43
ZZZZZ	22H0529-15	XDT_m2230109-153	Solid	01/10/23 02:43
ZZZZZ	22H0529-16	XDT_m2230109-154	Solid	01/10/23 02:47
ZZZZZ	22H0529-16	XDT_m2230109-154	Solid	01/10/23 02:47
ZZZZZ	22H0529-17	XDT_m2230109-155	Solid	01/10/23 02:52
ZZZZZ	22H0529-17	XDT_m2230109-155	Solid	01/10/23 02:52
ZZZZZ	22H0529-17	XDT_m2230109-155	Solid	01/10/23 02:52
ZZZZZ	22H0529-17	XDT_m2230109-155	Solid	01/10/23 02:52
ZZZZZ	22H0529-18	XDT_m2230109-156	Solid	01/10/23 02:56
ZZZZZ	22H0529-18	XDT_m2230109-156	Solid	01/10/23 02:56
ZZZZZ	22H0529-18	XDT_m2230109-156	Solid	01/10/23 02:56
ZZZZZ	22H0529-18	XDT_m2230109-156	Solid	01/10/23 02:56
ZZZZZ	22H0529-22	XDT_m2230109-157	Solid	01/10/23 03:01
ZZZZZ	22H0529-22	XDT_m2230109-157	Solid	01/10/23 03:01
ZZZZZ	22H0529-22	XDT_m2230109-157	Solid	01/10/23 03:01
ZZZZZ	22H0529-22	XDT_m2230109-157	Solid	01/10/23 03:01
ZZZZZ	22H0529-23	XDT_m2230109-158	Solid	01/10/23 03:05
ZZZZZ	22H0529-23	XDT_m2230109-158	Solid	01/10/23 03:05
ZZZZZ	22H0529-23	XDT_m2230109-158	Solid	01/10/23 03:05
ZZZZZ	22H0529-23	XDT_m2230109-158	Solid	01/10/23 03:05
ZZZZZ	22H0529-24	XDT_m2230109-159	Solid	01/10/23 03:09
ZZZZZ	22H0529-24	XDT_m2230109-159	Solid	01/10/23 03:09
ZZZZZ	22H0529-24	XDT_m2230109-159	Solid	01/10/23 03:09
ZZZZZ	22H0529-24	XDT_m2230109-159	Solid	01/10/23 03:09
ZZZZZ	22H0529-25	XDT_m2230109-160	Solid	01/10/23 03:14
ZZZZZ	22H0529-25	XDT_m2230109-160	Solid	01/10/23 03:14
ZZZZZ	22H0529-25	XDT_m2230109-160	Solid	01/10/23 03:14

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22H0529-25	XDT_m2230109-160	Solid	01/10/23 03:14
ZZZZZ	22H0529-26	XDT_m2230109-161	Solid	01/10/23 03:18
ZZZZZ	22H0529-26	XDT_m2230109-161	Solid	01/10/23 03:18
ZZZZZ	22H0529-26	XDT_m2230109-161	Solid	01/10/23 03:18
ZZZZZ	22H0529-26	XDT_m2230109-161	Solid	01/10/23 03:18
Calibration Check	SLA0097-CCVF	XDT_m2230109-162	NA	01/10/23 03:26
Calibration Blank	SLA0097-CCBF	XDT_m2230109-163	NA	01/10/23 03:33
ZZZZZ	22H0529-30	XDT_m2230109-164	Solid	01/10/23 03:37
ZZZZZ	22H0529-30	XDT_m2230109-164	Solid	01/10/23 03:37
ZZZZZ	22H0529-31	XDT_m2230109-165	Solid	01/10/23 03:41
ZZZZZ	22H0529-31	XDT_m2230109-165	Solid	01/10/23 03:41
ZZZZZ	22H0529-31	XDT_m2230109-165	Solid	01/10/23 03:41
ZZZZZ	22H0529-31	XDT_m2230109-165	Solid	01/10/23 03:41
ZZZZZ	22H0529-32	XDT_m2230109-166	Solid	01/10/23 03:46
ZZZZZ	22H0529-32	XDT_m2230109-166	Solid	01/10/23 03:46
ZZZZZ	22H0529-32	XDT_m2230109-166	Solid	01/10/23 03:46
ZZZZZ	22H0529-32	XDT_m2230109-166	Solid	01/10/23 03:46
ZZZZZ	22H0529-33	XDT_m2230109-167	Solid	01/10/23 03:50
ZZZZZ	22H0529-33	XDT_m2230109-167	Solid	01/10/23 03:50
ZZZZZ	22H0529-33	XDT_m2230109-167	Solid	01/10/23 03:50
ZZZZZ	22H0529-33	XDT_m2230109-167	Solid	01/10/23 03:50
ZZZZZ	22I0052-01	XDT_m2230109-168	Solid	01/10/23 03:55
ZZZZZ	22I0052-01	XDT_m2230109-168	Solid	01/10/23 03:55
ZZZZZ	22I0052-01	XDT_m2230109-168	Solid	01/10/23 03:55
ZZZZZ	22I0052-01	XDT_m2230109-168	Solid	01/10/23 03:55
ZZZZZ	22I0052-02	XDT_m2230109-169	Solid	01/10/23 03:59
ZZZZZ	22I0052-02	XDT_m2230109-169	Solid	01/10/23 03:59
ZZZZZ	22I0052-02	XDT_m2230109-169	Solid	01/10/23 03:59
ZZZZZ	22I0052-02	XDT_m2230109-169	Solid	01/10/23 03:59

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22I0052-03	XDT_m2230109-170	Solid	01/10/23 04:03
ZZZZZ	22I0052-03	XDT_m2230109-170	Solid	01/10/23 04:03
ZZZZZ	22I0052-03	XDT_m2230109-170	Solid	01/10/23 04:03
ZZZZZ	22I0052-03	XDT_m2230109-170	Solid	01/10/23 04:03
ZZZZZ	22I0052-05	XDT_m2230109-171	Solid	01/10/23 04:08
ZZZZZ	22I0052-05	XDT_m2230109-171	Solid	01/10/23 04:08
ZZZZZ	22I0052-05	XDT_m2230109-171	Solid	01/10/23 04:08
ZZZZZ	22I0052-05	XDT_m2230109-171	Solid	01/10/23 04:08
ZZZZZ	22I0052-06	XDT_m2230109-172	Solid	01/10/23 04:12
ZZZZZ	22I0052-06	XDT_m2230109-172	Solid	01/10/23 04:12
ZZZZZ	22I0052-06	XDT_m2230109-172	Solid	01/10/23 04:12
ZZZZZ	22I0052-06	XDT_m2230109-172	Solid	01/10/23 04:12
ZZZZZ	22I0052-11	XDT_m2230109-173	Solid	01/10/23 04:17
ZZZZZ	22I0052-11	XDT_m2230109-173	Solid	01/10/23 04:17
ZZZZZ	22I0052-11	XDT_m2230109-173	Solid	01/10/23 04:17
ZZZZZ	22I0052-11	XDT_m2230109-173	Solid	01/10/23 04:17
Calibration Check	SLA0097-CCVG	XDT_m2230109-174	NA	01/10/23 04:24
Calibration Blank	SLA0097-CCBG	XDT_m2230109-175	NA	01/10/23 04:31
ZZZZZ	22I0052-13	XDT_m2230109-185	Solid	01/10/23 05:16
ZZZZZ	22I0052-13	XDT_m2230109-185	Solid	01/10/23 05:16
ZZZZZ	22I0052-13	XDT_m2230109-185	Solid	01/10/23 05:16
ZZZZZ	22I0052-13	XDT_m2230109-185	Solid	01/10/23 05:16
Calibration Check	SLA0097-CCVH	XDT_m2230109-186	NA	01/10/23 05:23
Calibration Blank	SLA0097-CCBH	XDT_m2230109-187	NA	01/10/23 05:30
Calibration Check	SLA0097-CCVI	XDT_m2230109-189	NA	01/10/23 05:39
Calibration Blank	SLA0097-CCBI	XDT_m2230109-190	NA	01/10/23 05:46
ZZZZZ	22L0612-01	XDT_m2230109-197	Water	01/10/23 06:17
ZZZZZ	BLA0157-DUP1	XDT_m2230109-198	Water	01/10/23 06:22
ZZZZZ	BLA0157-MS1	XDT_m2230109-199	Water	01/10/23 06:28

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0097
Instrument: ICPMS2
Calibration: GA00024

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLA0097-IBL8	XDT_m2230109-200	NA	01/10/23 06:32
Calibration Check	SLA0097-CCVJ	XDT_m2230109-201	NA	01/10/23 06:36
Calibration Blank	SLA0097-CCBJ	XDT_m2230109-202	NA	01/10/23 06:43
Instrument Blank	SLA0097-IBL9	XDT_m2230109-212	NA	01/10/23 07:28
Calibration Check	SLA0097-CCVK	XDT_m2230109-213	NA	01/10/23 07:32
Calibration Blank	SLA0097-CCBK	XDT_m2230109-214	NA	01/10/23 07:39
Calibration Check	SLA0097-CCVL	XDT_m2230109-225	NA	01/10/23 08:32
Calibration Blank	SLA0097-CCBL	XDT_m2230109-226	NA	01/10/23 08:39
Calibration Check	SLA0097-CCVM	XDT_m2230109-237	NA	01/10/23 09:32
Calibration Blank	SLA0097-CCBM	XDT_m2230109-238	NA	01/10/23 09:39

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0147	Instrument:	ICPMS2
		Calibration:	GA00033

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLA0147-CAL1	XDT_m2230112-006	NA	01/12/23 15:38
CAL 1 - LOW CHECK	SLA0147-CAL2	XDT_m2230112-007	NA	01/12/23 15:43
CAL 2	SLA0147-CAL3	XDT_m2230112-008	NA	01/12/23 15:47
CAL 3	SLA0147-CAL4	XDT_m2230112-009	NA	01/12/23 15:52
CAL 4	SLA0147-CAL5	XDT_m2230112-010	NA	01/12/23 15:58
CAL 5	SLA0147-CAL6	XDT_m2230112-011	NA	01/12/23 16:04
RINSE	SLA0147-IBL1	XDT_m2230112-012	NA	01/12/23 16:12
Initial Cal Check	SLA0147-ICV1	XDT_m2230112-014	NA	01/12/23 16:22
Initial Cal Blank	SLA0147-ICB1	XDT_m2230112-015	NA	01/12/23 16:29
Calibration Check	SLA0147-CCV1	XDT_m2230112-016	NA	01/12/23 16:34
Calibration Blank	SLA0147-CCB1	XDT_m2230112-017	NA	01/12/23 16:41
Instrument RL Check	SLA0147-CRL1	XDT_m2230112-019	NA	01/12/23 16:57
Interference Check A	SLA0147-IFA1	XDT_m2230112-020	NA	01/12/23 17:03
Interference Check B	SLA0147-IFB1	XDT_m2230112-021	NA	01/12/23 17:08
LR200	SLA0147-HCV1	XDT_m2230112-022	NA	01/12/23 17:12
LR300	SLA0147-HCV2	XDT_m2230112-023	NA	01/12/23 17:17
Instrument Blank	SLA0147-IBL2	XDT_m2230112-024	NA	01/12/23 17:24
Calibration Check	SLA0147-CCV2	XDT_m2230112-025	NA	01/12/23 17:31
Calibration Blank	SLA0147-CCB2	XDT_m2230112-026	NA	01/12/23 17:39
Instrument Blank	SLA0147-IBL3	XDT_m2230112-036	NA	01/12/23 18:31
Calibration Check	SLA0147-CCV3	XDT_m2230112-038	NA	01/12/23 18:44
Calibration Blank	SLA0147-CCB3	XDT_m2230112-039	NA	01/12/23 18:51
Calibration Check	SLA0147-CCV4	XDT_m2230112-050	NA	01/12/23 19:53
Calibration Blank	SLA0147-CCB4	XDT_m2230112-051	NA	01/12/23 20:00
Calibration Check	SLA0147-CCV5	XDT_m2230112-053	NA	01/12/23 20:14
Calibration Blank	SLA0147-CCB5	XDT_m2230112-054	NA	01/12/23 20:21
ZZZZZ	BLA0224-BLK1	XDT_m2230112-057	Solid	01/12/23 20:35
ZZZZZ	BLA0224-BS1	XDT_m2230112-058	Solid	01/12/23 20:39
ZZZZZ	22K0328-17RE1	XDT_m2230112-059	Solid	01/12/23 20:44

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0147
Instrument: ICPMS2
Calibration: GA00033

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22K0328-17RE1	XDT_m2230112-059	Solid	01/12/23 20:44
ZZZZZ	22K0328-17RE1	XDT_m2230112-059	Solid	01/12/23 20:44
ZZZZZ	BLA0224-DUP1	XDT_m2230112-060	Solid	01/12/23 20:52
ZZZZZ	BLA0224-MS1	XDT_m2230112-061	Solid	01/12/23 20:56
ZZZZZ	BLA0224-MSD1	XDT_m2230112-062	Solid	01/12/23 21:01
Instrument Blank	SLA0147-IBL4	XDT_m2230112-064	NA	01/12/23 21:11
Calibration Check	SLA0147-CCV6	XDT_m2230112-065	NA	01/12/23 21:15
Calibration Blank	SLA0147-CCB6	XDT_m2230112-066	NA	01/12/23 21:22
ZZZZZ	22K0328-17RE2	XDT_m2230112-067	Solid	01/12/23 21:29
ZZZZZ	22K0328-17RE2	XDT_m2230112-067	Solid	01/12/23 21:29
ZZZZZ	BLA0224-DUP2	XDT_m2230112-068	Solid	01/12/23 21:35
ZZZZZ	BLA0224-MS2	XDT_m2230112-069	Solid	01/12/23 21:40
ZZZZZ	BLA0224-MSD2	XDT_m2230112-070	Solid	01/12/23 21:44
Instrument Blank	SLA0147-IBL5	XDT_m2230112-076	NA	01/12/23 22:12
Calibration Check	SLA0147-CCV7	XDT_m2230112-077	NA	01/12/23 22:16
Calibration Blank	SLA0147-CCB7	XDT_m2230112-078	NA	01/12/23 22:23
Instrument Blank	SLA0147-IBL6	XDT_m2230112-088	NA	01/12/23 23:07
Calibration Check	SLA0147-CCV8	XDT_m2230112-089	NA	01/12/23 23:11
Calibration Blank	SLA0147-CCB8	XDT_m2230112-090	NA	01/12/23 23:18
ZZZZZ	BLA0156-BLK1	XDT_m2230112-091	Solid	01/12/23 23:22
ZZZZZ	BLA0156-BS1	XDT_m2230112-092	Solid	01/12/23 23:27
Instrument Blank	SLA0147-IBL7	XDT_m2230112-100	NA	01/13/23 00:02
Calibration Check	SLA0147-CCV9	XDT_m2230112-101	NA	01/13/23 00:06
Calibration Blank	SLA0147-CCB9	XDT_m2230112-102	NA	01/13/23 00:13
LDW23-SC1123B	22L0459-01	XDT_m2230112-104	Solid	01/13/23 00:22
LDW23-SC1123B	22L0459-01	XDT_m2230112-104	Solid	01/13/23 00:22
LDW23-SC1123B	22L0459-01	XDT_m2230112-104	Solid	01/13/23 00:22
LDW23-SC1123B	22L0459-01	XDT_m2230112-104	Solid	01/13/23 00:22
LDW23-SC1053C	22L0459-02	XDT_m2230112-105	Solid	01/13/23 00:26

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0147	Instrument:	ICPMS2
		Calibration:	GA00033

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LDW23-SC1053C	22L0459-02	XDT_m2230112-105	Solid	01/13/23 00:26
LDW23-SC1053C	22L0459-02	XDT_m2230112-105	Solid	01/13/23 00:26
LDW23-SC1053C	22L0459-02	XDT_m2230112-105	Solid	01/13/23 00:26
LDW23-SC1039C	22L0459-03	XDT_m2230112-106	Solid	01/13/23 00:31
LDW23-SC1039C	22L0459-03	XDT_m2230112-106	Solid	01/13/23 00:31
LDW23-SC1039C	22L0459-03	XDT_m2230112-106	Solid	01/13/23 00:31
LDW23-SC1039C	22L0459-03	XDT_m2230112-106	Solid	01/13/23 00:31
LDW23-SC1007B	22L0459-04	XDT_m2230112-107	Solid	01/13/23 00:35
LDW23-SC1007B	22L0459-04	XDT_m2230112-107	Solid	01/13/23 00:35
LDW23-SC1007B	22L0459-04	XDT_m2230112-107	Solid	01/13/23 00:35
LDW23-SC1007B	22L0459-04	XDT_m2230112-107	Solid	01/13/23 00:35
LDW23-SC1002C	22L0459-05	XDT_m2230112-108	Solid	01/13/23 00:39
LDW23-SC1002C	22L0459-05	XDT_m2230112-108	Solid	01/13/23 00:39
LDW23-SC1002C	22L0459-05	XDT_m2230112-108	Solid	01/13/23 00:39
LDW23-SC1002C	22L0459-05	XDT_m2230112-108	Solid	01/13/23 00:39
LDW23-SC1070B	22L0459-06	XDT_m2230112-109	Solid	01/13/23 00:44
LDW23-SC1070B	22L0459-06	XDT_m2230112-109	Solid	01/13/23 00:44
LDW23-SC1070B	22L0459-06	XDT_m2230112-109	Solid	01/13/23 00:44
LDW23-SC1070B	22L0459-06	XDT_m2230112-109	Solid	01/13/23 00:44
LDW23-SC1091B	22L0459-07	XDT_m2230112-110	Solid	01/13/23 00:48
LDW23-SC1091B	22L0459-07	XDT_m2230112-110	Solid	01/13/23 00:48
LDW23-SC1091B	22L0459-07	XDT_m2230112-110	Solid	01/13/23 00:48
LDW23-SC1091B	22L0459-07	XDT_m2230112-110	Solid	01/13/23 00:48
Instrument Blank	SLA0147-IBL8	XDT_m2230112-112	NA	01/13/23 00:57
Calibration Check	SLA0147-CCVA	XDT_m2230112-113	NA	01/13/23 01:01
Calibration Blank	SLA0147-CCBA	XDT_m2230112-114	NA	01/13/23 01:09
Calibration Check	SLA0147-CCVB	XDT_m2230112-116	NA	01/13/23 01:17
Calibration Blank	SLA0147-CCBB	XDT_m2230112-117	NA	01/13/23 01:24
ZZZZZ	23A0011-01	XDT_m2230112-123	Solid	01/13/23 01:51

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0147
Instrument: ICPMS2
Calibration: GA00033

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLA0156-DUP1	XDT_m2230112-124	Solid	01/13/23 01:55
ZZZZZ	BLA0156-MS1	XDT_m2230112-125	Solid	01/13/23 01:59
ZZZZZ	BLA0156-MSD1	XDT_m2230112-126	Solid	01/13/23 02:04
Instrument Blank	SLA0147-IBL9	XDT_m2230112-127	NA	01/13/23 02:08
Calibration Check	SLA0147-CCVC	XDT_m2230112-128	NA	01/13/23 02:12
Calibration Blank	SLA0147-CCBC	XDT_m2230112-129	NA	01/13/23 02:20
Instrument Blank	SLA0147-IBLA	XDT_m2230112-139	NA	01/13/23 02:53
Calibration Check	SLA0147-CCVD	XDT_m2230112-140	NA	01/13/23 02:57
Calibration Blank	SLA0147-CCBD	XDT_m2230112-141	NA	01/13/23 03:03
Instrument Blank	SLA0147-IBLB	XDT_m2230112-151	NA	01/13/23 03:36
Calibration Check	SLA0147-CCVE	XDT_m2230112-152	NA	01/13/23 03:40
Calibration Blank	SLA0147-CCBE	XDT_m2230112-153	NA	01/13/23 03:46
Instrument Blank	SLA0147-IBLC	XDT_m2230112-163	NA	01/13/23 04:19
Calibration Check	SLA0147-CCVF	XDT_m2230112-164	NA	01/13/23 04:22
Calibration Blank	SLA0147-CCBF	XDT_m2230112-165	NA	01/13/23 04:29

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Sequence: SLA0097
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0097-IFA1	Arsenic-75a	0	0.0300		ug/L
	Cadmium-111	0	0.0340		ug/L
	Cadmium-114	0	0.0500		ug/L
	Copper-63	0	0.0220		ug/L
	Copper-65	0	0.0190		ug/L
	Zinc-66	0	0.1800		ug/L
	Zinc-67	0	0.1210		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Sequence: SLA0097
Standard ID: K011871

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0097-IFB1	Arsenic-75a	20.000	19.326	96.6	ug/L
	Cadmium-111	20.000	18.736	93.7	ug/L
	Cadmium-114	20.000	18.778	93.9	ug/L
	Copper-63	20.000	19.545	97.7	ug/L
	Copper-65	20.000	19.953	99.8	ug/L
	Zinc-66	20.000	18.915	94.6	ug/L
	Zinc-67	20.000	16.667	83.3	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Sequence: SLA0147
Standard ID: L000394

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0147-IFA1	Arsenic-75a	0	0.0420		ug/L
	Cadmium-111	0	0.0720		ug/L
	Cadmium-114	0	0.0510		ug/L
	Copper-63	0	0.0300		ug/L
	Copper-65	0	0.0210		ug/L
	Zinc-66	0	0.1640		ug/L
	Zinc-67	0	0.2740		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Sequence: SLA0147
Standard ID: L000394

Lab Sample ID	Analyte	True	Found	%R	Units
SLA0147-IFB1	Arsenic-75a	20.000	19.371	96.9	ug/L
	Cadmium-111	20.000	19.129	95.6	ug/L
	Cadmium-114	20.000	19.523	97.6	ug/L
	Copper-63	20.000	20.045	100	ug/L
	Copper-65	20.000	19.809	99.0	ug/L
	Zinc-66	20.000	18.638	93.2	ug/L
	Zinc-67	20.000	16.366	81.8	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00024
Sequence: SLA0097
Lab Sample ID: SLA0097-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.208	104	ug/L	50 - 150
Cadmium-111	0.10000	0.0970	97.0	ug/L	50 - 150
Cadmium-114	0.10000	0.0880	88.0	ug/L	50 - 150
Copper-63	0.50000	0.509	102	ug/L	50 - 150
Copper-65	0.50000	0.500	100	ug/L	50 - 150
Zinc-66	6.0000	6.23	104	ug/L	50 - 150
Zinc-67	6.0000	5.40	90.0	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS2
Calibration: GA00033
Sequence: SLA0147
Lab Sample ID: SLA0147-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.197	98.5	ug/L	50 - 150
Cadmium-111	0.10000	0.102	102	ug/L	50 - 150
Cadmium-114	0.10000	0.0570	57.0	ug/L	50 - 150
Copper-63	0.50000	0.504	101	ug/L	50 - 150
Copper-65	0.50000	0.485	97.0	ug/L	50 - 150
Zinc-66	6.0000	6.07	101	ug/L	50 - 150
Zinc-67	6.0000	5.28	88.0	ug/L	50 - 150

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00024
Laboratory ID: SLA0097-HCV1
Sequence: SLA0097
Standard ID: L000232

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	196	-2.1	10.00
Cadmium-111	200.00	191	-4.5	10.00
Cadmium-114	200.00	195	-2.7	10.00
Copper-63	200.00	192	-4.2	10.00
Copper-65	200.00	193	-3.3	10.00
Zinc-66	200.00	188	-6.0	10.00
Zinc-67	200.00	186	-7.0	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00024
Laboratory ID: SLA0097-HCV2
Sequence: SLA0097
Standard ID: L000233

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	290	-3.3	10.00
Cadmium-111	300.00	278	-7.4	10.00
Cadmium-114	300.00	281	-6.3	10.00
Copper-63	300.00	283	-5.6	10.00
Copper-65	300.00	277	-7.6	10.00
Zinc-66	300.00	273	-9.0	10.00
Zinc-67	300.00	276	-8.1	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00033
Laboratory ID: SLA0147-HCV1
Sequence: SLA0147
Standard ID: L000232

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	195	-2.6	10.00
Cadmium-111	200.00	191	-4.5	10.00
Cadmium-114	200.00	191	-4.3	10.00
Copper-63	200.00	194	-2.8	10.00
Copper-65	200.00	192	-4.0	10.00
Zinc-66	200.00	192	-4.0	10.00
Zinc-67	200.00	184	-7.9	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GA00033
Laboratory ID: SLA0147-HCV2
Sequence: SLA0147
Standard ID: L000233

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	283	-5.7	10.00
Cadmium-111	300.00	277	-7.6	10.00
Cadmium-114	300.00	278	-7.2	10.00
Copper-63	300.00	281	-6.5	10.00
Copper-65	300.00	280	-6.6	10.00
Zinc-66	300.00	266	-11.2	10.00
Zinc-67	300.00	265	-11.6	10.00

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SC1123B 22L0459-01	12/16/22 08:19	12/16/22 15:47	12/27/22 10:02	11	180	01/13/23 00:22	28	180	
LDW23-SC1053C 22L0459-02	12/16/22 09:12	12/16/22 15:47	12/27/22 10:02	11	180	01/13/23 00:26	28	180	
LDW23-SC1039C 22L0459-03	12/16/22 09:50	12/16/22 15:47	12/27/22 10:02	11	180	01/13/23 00:31	28	180	
LDW23-SC1007B 22L0459-04	12/16/22 10:43	12/16/22 15:47	12/27/22 10:02	10	180	01/13/23 00:35	28	180	
LDW23-SC1002C 22L0459-05	12/16/22 11:20	12/16/22 15:47	12/27/22 10:02	10	180	01/13/23 00:39	28	180	
LDW23-SC1070B 22L0459-06	12/16/22 12:01	12/16/22 15:47	12/27/22 10:02	10	180	01/13/23 00:44	28	180	
LDW23-SC1091B 22L0459-07	12/16/22 12:38	12/16/22 15:47	12/27/22 10:02	10	180	01/13/23 00:48	28	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ICPMS2

Analyte	MDL	RL	Units
Arsenic-75a	0.04	0.20	mg/kg
Cadmium-111	0.03	0.10	mg/kg
Cadmium-114	0.04	0.10	mg/kg
Copper-63	0.17	0.50	mg/kg
Copper-65	0.35	0.50	mg/kg
Zinc-66	2.9	6.0	mg/kg
Zinc-67	0.9	6.0	mg/kg

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CERTIFICATE OF ANALYSIS

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	P2-CU682108
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9977 ± 50 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10024 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 46 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008700	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003781	M	Sn	<	0.005657				
O	B		0.003663	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004253	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005789	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000763	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007174	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 $Cu(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	S2-PB713228
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2343
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	M	Na		0.001470	M	Se	<	0.009100	O	Zn		0.006155
O	Al		0.017098	O	Fe		0.002496	M	Nb	<	0.000310	O	Si		0.003761	O	Zr	<	0.001700
M	As	<	0.003100	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.000910	M	Gd	<	0.000310	O	Ni		0.001709	M	Sn	<	0.001300				
O	B	<	0.005600	M	Ge	<	0.002200	M	Os	<	0.000310	O	Sr		0.000444				
O	Ba		0.007865	M	Hf	<	0.000310	O	P	<	0.038000	M	Ta	<	0.000310				
O	Be	<	0.000320	M	Hg	<	0.002200	s	Pb	<		M	Tb	<	0.000610				
M	Bi	<	0.028000	M	Ho	<	0.000310	M	Pd	<	0.000610	M	Te	<	0.000310				
O	Ca		0.019834	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310				
O	Cd	<	0.000630	M	Ir	<	0.000310	M	Pt	<	0.000910	O	Ti		0.005129				
M	Ce		0.004787	O	K		0.008207	M	Rb	<	0.006700	M	Tl	<	0.016000				
M	Co	<	0.000610	M	La	<	0.001900	M	Re	<	0.000310	M	Tm	<	0.000310				
O	Cr	<	0.001500	O	Li	<	0.000110	O	Rh	<	0.007700	M	U	<	0.000310				
M	Cs	<	0.006100	M	Lu	<	0.000310	M	Ru	<	0.001300	M	V	<	0.001600				
M	Cu	<	0.001600	O	Mg		0.003317	O	S	<	0.052000	M	W	<	0.000910				
M	Dy	<	0.000310	O	Mn	<	0.001600	O	Sb	<	0.015000	M	Y	<	0.000310				
M	Er	<	0.000310	M	Mo	<	0.000610	O	Sc	<	0.000630	M	Yb	<	0.000310				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

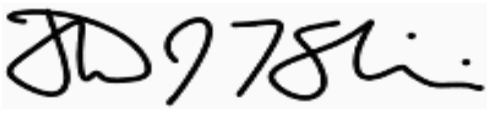
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	S2-ZN711249
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zinc Metal
Starting Material Lot#:	2349
Starting Material Purity:	99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 56 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **9987 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10002 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002000	M	Eu	<	0.000500	O	Na		0.008713	M	Se	<	0.048000	s	Zn	<	
O	Al	<	0.011000	O	Fe		0.015467	M	Nb	<	0.000500	O	Si		0.007842	M	Zr	<	0.000500
O	As	<	0.012000	M	Ga	<	0.004900	M	Nd	<	0.000500	M	Sm	<	0.000500				
M	Au	<	0.006500	M	Gd	<	0.000500	O	Ni		0.003049	M	Sn		0.002614				
O	B	<	0.019000	M	Ge	<	0.009100	M	Os	<	0.000500	M	Sr	<	0.000500				
M	Ba	<	0.000500	M	Hf	<	0.000500	O	P	<	0.059000	M	Ta	<	0.000500				
O	Be	<	0.000230	O	Hg	<	0.003800	M	Pb		0.016774	M	Tb	<	0.000500				
M	Bi	<	0.002400	M	Ho	<	0.000500	M	Pd	<	0.001000	M	Te	<	0.017000				
O	Ca		0.052283	M	In	<	0.003500	M	Pr	<	0.000500	M	Th	<	0.000500				
O	Cd		0.000588	M	Ir	<	0.001000	M	Pt	<	0.000500	M	Ti	<	0.002000				
M	Ce	<	0.000500	O	K		0.017209	M	Rb	<	0.002500	M	Tl	<	0.000500				
M	Co		0.000653	M	La	<	0.000500	M	Re	<	0.000500	M	Tm	<	0.000500				
O	Cr		0.001089	O	Li	<	0.000230	M	Rh	<	0.000500	M	U	<	0.000500				
M	Cs	<	0.000500	M	Lu	<	0.000500	M	Ru	<	0.005000	M	V	<	0.000500				
O	Cu		0.001938	O	Mg		0.000871	O	S	<	0.048000	M	W	<	0.001000				
M	Dy	<	0.000500	O	Mn		0.000172	M	Sb	<	0.004300	M	Y	<	0.000500				
M	Er	<	0.000500	M	Mo	<	0.001500	O	Sc	<	0.000900	M	Yb	<	0.000500				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

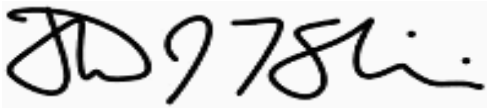
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	S2-SE711004
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013654	s	Se	<		O	Zn		0.002374
M	Al		0.004450	M	Fe		0.008478	O	Nb	<	0.002975	O	Si		0.006249	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001843	M	Sn		0.000847				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006358	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006530	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001165	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.001999	M	Rb	<	0.001868	M	Tl		0.008584				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002861	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001156	O	S		0.024591	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	S2-MO706255
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.008739	M	Se	<	0.008000	M	Zn		0.005942
M	Al		0.005592	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.001747				
M	Ba		0.016778	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.062920	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Ti	<	0.032000				
M	Ce	<	0.008300	M	K		1.293372	M	Rb		0.045442	M	Tl		0.012584				
M	Co		0.005942	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005243	O	Li		0.000594	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.005243	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.022371	M	Mg		0.005592	i	S	<		M	W		0.873900				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.015031	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	T2-TL714687
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL(

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002489	M	Se	<	0.011019	O	Zn		0.002298
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003760	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001724	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000811	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002436	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001318	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006175	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000529	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+
Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Tl Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

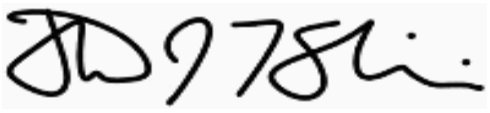
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	S2-CD710508
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Metal
Starting Material Lot#:	1953
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10011 ± 30 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #3 **10003 ± 30 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.003200	O	Eu	<	0.002500	O	Na		0.005499	M	Se	<	0.005700	O	Zn	<	0.001100
O	Al		0.008903	O	Fe		0.000602	M	Nb	<	0.000400	O	Si		0.016758	O	Zr	<	0.002600
M	As	<	0.003600	M	Ga	<	0.001200	M	Nd	<	0.000800	M	Sm	<	0.000400				
M	Au	<	0.000810	M	Gd	<	0.000400	M	Ni	<	0.003600	M	Sn	<	0.003200				
O	B		0.004189	O	Ge	<	0.012000	M	Os	<	0.000810	O	Sr	<	0.000330				
M	Ba	<	0.002400	M	Hf	<	0.000400	O	P	<	0.022000	M	Ta	<	0.000800				
M	Be	<	0.000400	M	Hg	<	0.001700	M	Pb	<	0.002400	M	Tb	<	0.000400				
M	Bi	<	0.000400	M	Ho	<	0.000400	M	Pd	<	0.001200	M	Te	<	0.008000				
O	Ca		0.011259	O	In	<	0.013000	M	Pr	<	0.000400	M	Th	<	0.000400				
s	Cd	<		M	Ir	<	0.000410	M	Pt	<	0.000400	O	Ti		0.000602				
M	Ce	<	0.000400	O	K		0.005237	M	Rb	<	0.004400	M	Tl		0.000523				
M	Co	<	0.000400	M	La	<	0.000400	M	Re	<	0.000400	M	Tm	<	0.000400				
O	Cr	<	0.005100	O	Li	<	0.000054	M	Rh	<	0.000400	M	U	<	0.000400				
M	Cs	<	0.002400	M	Lu	<	0.000400	M	Ru	<	0.002500	M	V	<	0.002000				
O	Cu	<	0.004800	O	Mg		0.000288	O	S	<	0.022000	M	W	<	0.000400				
M	Dy	<	0.000400	O	Mn	<	0.000860	O	Sb	<	0.018000	M	Y	<	0.000400				
M	Er	<	0.000400	M	Mo	<	0.001600	O	Sc	<	0.000430	M	Yb	<	0.000400				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	S2-MN704240
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9989 ± 69 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **10011 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10024 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176097	M	Se	<	0.006600	M	Zn		0.009925
O	Al		0.004322	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097654	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004322	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024013	M	Sn	<	0.002200				
M	B		0.068838	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000928				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007364	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062434	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006403	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014728	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.272151	O	Li		0.000416	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007684	O	Mg		0.320177	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001360				
M	Er	<	0.001500	M	Mo		0.010245	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 $Mn(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO_3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H_2SO_4 and heat to SO_3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16O,37Cl18O,40Ar15N,38Ar17O,36Ar18O1H ,38Ar16O1H,37Cl17O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn		0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	<	0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100				
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800				
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750				
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300				
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100				
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600				
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100				
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800				
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100				
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100				
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100				
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800				
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200				
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100				
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	T2-AS718260
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Metal
Starting Material Lot#:	2208
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL

Density: 1.037 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.003200	M	Eu	< 0.000530	O	Na	0.032544	M	Se	< 0.006300	O	Zn	0.001952			
M	Al	0.007593	O	Fe	0.001475	O	Nb	< 0.012000	O	Si	0.238658	O	Zr	< 0.004100			
s	As	<	M	Ga	< 0.000530	M	Nd	< 0.000530	M	Sm	< 0.000530						
M	Au	< 0.003100	M	Gd	< 0.000530	M	Ni	< 0.002100	M	Sn	< 0.000530						
M	B	0.026035	M	Ge	< 0.001600	M	Os	< 0.000520	M	Sr	< 0.000530						
M	Ba	< 0.000530	M	Hf	< 0.000530	O	P	< 0.043000	M	Ta	< 0.000530						
O	Be	< 0.000360	M	Hg	< 0.001600	M	Pb	< 0.002100	M	Tb	< 0.000530						
M	Bi	< 0.000530	M	Ho	< 0.000530	M	Pd	< 0.001100	M	Te	< 0.004700						
O	Ca	0.004339	M	In	< 0.023000	M	Pr	< 0.005300	M	Th	< 0.000530						
M	Cd	< 0.001100	M	Ir	< 0.000520	M	Pt	< 0.000530	O	Ti	< 0.002300						
M	Ce	< 0.000530	O	K	0.002061	M	Rb	< 0.000530	M	Tl	< 0.000530						
M	Co	< 0.000530	M	La	< 0.001100	M	Re	< 0.000530	M	Tm	< 0.000530						
O	Cr	< 0.001800	O	Li	< 0.000120	M	Rh	< 0.000530	M	U	< 0.000530						
M	Cs	< 0.005300	M	Lu	< 0.000530	M	Ru	< 0.000520	M	V	< 0.002700						
M	Cu	< 0.001600	O	Mg	0.000154	O	S	0.028205	M	W	< 0.012000						
M	Dy	< 0.000530	O	Mn	0.000154	M	Sb	< 0.000530	M	Y	< 0.000530						
M	Er	< 0.000530	M	Mo	< 0.000530	O	Sc	< 0.001700	M	Yb	< 0.000530						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3,H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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300 Technology Drive
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	R2-BA692576
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Barium Nitrate
Starting Material Lot#:	1969
Starting Material Purity:	99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10018 ± 50 µg/mL** ICP Assay NIST SRM 3104a Lot Number: 140909
Assay Method #2	**10023 ± 31 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #3	**10023 ± 30 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000410	O	Eu	<	0.005200	O	Na		0.004610	M	Se	<	0.003700	O	Zn		0.000658
M	Al	<	0.003100	O	Fe		0.015707	M	Nb	<	0.000210	O	Si		0.005573	M	Zr	<	0.001300
M	As	<	0.001300	M	Ga	<	0.000210	M	Nd	<	0.000210	O	Sm	<	0.021000				
M	Au	<	0.001300	M	Gd	<	0.000210	M	Ni	<	0.000810	M	Sn	<	0.000410				
O	B	<	0.005200	M	Ge	<	0.002500	M	Os	<	0.000410	O	Sr		0.003850				
s	Ba	<		M	Hf	<	0.000810	O	P	<	0.026000	M	Ta	<	0.000410				
O	Be	<	0.000320	M	Hg	<	0.000210	M	Pb	<	0.002300	M	Tb	<	0.000210				
M	Bi	<	0.000210	M	Ho	<	0.000210	M	Pd	<	0.000210	M	Te	<	0.001900				
O	Ca		0.007093	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	M	Ti	<	0.002100				
M	Ce	<	0.001300	O	K		0.035467	M	Rb	<	0.002100	M	Tl	<	0.000210				
M	Co	<	0.000410	O	La	<	0.005200	M	Re	<	0.000210	M	Tm	<	0.000410				
M	Cr	<	0.001700	O	Li	<	0.000630	M	Rh	<	0.000210	M	U	<	0.000210				
M	Cs	<	0.003300	M	Lu	<	0.001700	M	Ru	<	0.000210	O	V	<	0.005200				
M	Cu	<	0.001300	O	Mg		0.000861	O	S		0.268539	M	W	<	0.000410				
M	Dy	<	0.000210	M	Mn	<	0.000410	M	Sb	<	0.001300	O	Y	<	0.005200				
M	Er	<	0.001300	M	Mo	<	0.000410	M	Sc	<	0.000410	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$
Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.
Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	R2-BE692992
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium Acetate
Starting Material Lot#:	2281
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL

Density: 1.128 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001100	M	Eu	<	0.000270	O	Na		0.040962	M	Se	<	0.005000	M	Zn		0.013054
O	Al		0.016205	O	Fe		0.015754	M	Nb	<	0.000270	O	Si		0.024307	O	Zr	<	0.001900
M	As	<	0.002900	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270				
M	Au	<	0.000520	M	Gd	<	0.000270	M	Ni	<	0.003700	M	Sn	<	0.000790				
M	B	<	0.091000	M	Ge	<	0.000270	M	Os	<	0.000260	M	Sr		0.000630				
M	Ba		0.002700	M	Hf	<	0.000270	O	P	<	0.066000	M	Ta	<	0.000270				
s	Be	<		M	Hg	<	0.000520	M	Pb	<	0.000270	M	Tb	<	0.000270				
M	Bi	<	0.000530	M	Ho	<	0.000270	M	Pd	<	0.000520	M	Te	<	0.003700				
O	Ca		0.072022	M	In	<	0.000790	M	Pr	<	0.000270	M	Th	<	0.000270				
M	Cd	<	0.000790	M	Ir	<	0.000260	M	Pt	<	0.000270	O	Ti	<	0.000400				
M	Ce	<	0.000270	O	K		0.045014	M	Rb	<	0.000270	M	Tl	<	0.000790				
O	Co	<	0.003200	M	La	<	0.000270	M	Re	<	0.000270	M	Tm	<	0.000270				
O	Cr	<	0.001800	O	Li	<	0.000660	M	Rh	<	0.001100	M	U	<	0.000270				
M	Cs		0.001440	M	Lu	<	0.000270	M	Ru	<	0.000260	M	V	<	0.000790				
M	Cu	<	0.002100	O	Mg		0.016205	i	S	<		M	W	<	0.000530				
M	Dy	<	0.000270	M	Mn		0.001215	M	Sb	<	0.000270	M	Y	<	0.000270				
M	Er	<	0.000270	M	Mo	<	0.000530	O	Sc	<	0.000930	M	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 $Be(H_2O)_4^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO_3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H_2SO_4); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO4 fusion); Ores (H_2SO_4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	R2-CO695285
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	Co Metal
Starting Material Lot#:	2326
Starting Material Purity:	99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10031 ± 67 µg/mL**
ICP Assay NIST SRM 3113 Lot Number: 190630

Assay Method #2 **10019 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10000 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	0.014660	M	Eu	<	0.000590	O	Na	0.007534	M	Se	<	0.019000	M	Zn	0.003461	
M	Al	< 0.024000	M	Fe	0.050905	M	Nb	<	0.000590	O	Si	0.075340	M	Zr	<	0.001200	
i	As	<	M	Ga	<	0.000590	M	Nd	<	0.000590	M	Sm	<	0.000590			
M	Au	< 0.004100	M	Gd	<	0.000590	O	Ni	0.427608	M	Sn	<	0.001200				
M	B	< 0.031000	M	Ge	<	0.003000	M	Os	<	0.000590	O	Sr	<	0.000260			
M	Ba	< 0.000590	M	Hf	<	0.000590	n	P	<		M	Ta	<	0.001200			
O	Be	< 0.001300	M	Hg	<	0.001800	M	Pb	0.003257	M	Tb	<	0.000590				
M	Bi	< 0.003000	M	Ho	<	0.000590	M	Pd	<	0.000590	M	Te	<	0.005300			
O	Ca	0.010588	M	In	<	0.001200	M	Pr	<	0.000590	M	Th	<	0.000590			
M	Cd	< 0.004700	M	Ir	<	0.001200	M	Pt	<	0.002400	M	Ti	<	0.014000			
M	Ce	< 0.000590	O	K	0.008144	M	Rb	<	0.000590	M	Tl	0.002647					
s	Co	<	M	La	<	0.000590	M	Re	<	0.000590	M	Tm	<	0.000590			
M	Cr	< 0.021000	O	Li	<	0.000130	M	Rh	<	0.000590	M	U	<	0.000590			
M	Cs	< 0.002400	M	Lu	<	0.000590	M	Ru	<	0.007100	O	V	<	0.000880			
M	Cu	0.189369	O	Mg	0.001893	n	S	<		M	W	<	0.000590				
M	Dy	< 0.000590	M	Mn	<	0.001800	M	Sb	<	0.003600	M	Y	<	0.000590			
M	Er	< 0.000590	M	Mo	<	0.002400	O	Sc	<	0.001600	M	Yb	<	0.000590			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 $Co(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	S2-AG712977
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2289
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10051 ± 52 µg/mL**
ICP Assay NIST SRM 3151 Lot Number: 160729

Assay Method #2 **10051 ± 19 µg/mL**
Volhard NIST SRM 999c Lot Number: 999c

Assay Method #3 **10049 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000260	O	Na		0.003811	M	Se	<	0.003900	O	Zn		0.048146
M	Al		0.002688	O	Fe		0.006419	M	Nb	<	0.000260	O	Si		0.005215	M	Zr	<	0.000260
M	As	<	0.001100	M	Ga	<	0.000260	M	Nd	<	0.000260	M	Sm	<	0.000260				
M	Au	<	0.000260	M	Gd	<	0.000260	O	Ni		0.001765	M	Sn		0.020060				
O	B	<	0.004300	M	Ge	<	0.002300	M	Os	<	0.001100	O	Sr	<	0.000110				
M	Ba	<	0.000520	M	Hf	<	0.000260	O	P	<	0.017000	M	Ta	<	0.000260				
O	Be	<	0.001100	M	Hg	<	0.000770	M	Pb	<	0.003600	M	Tb	<	0.000260				
M	Bi		0.004814	M	Ho	<	0.000260	M	Pd		0.044134	M	Te	<	0.009000				
O	Ca		0.005215	M	In		0.003691	M	Pr	<	0.000260	M	Th	<	0.000260				
M	Cd	<	0.000260	M	Ir	<	0.000520	M	Pt	<	0.001100	O	Ti	<	0.000440				
M	Ce	<	0.002100	O	K	<	0.008700	M	Rb	<	0.001100	M	Tl	<	0.004100				
O	Co	<	0.000330	M	La	<	0.000260	M	Re	<	0.000260	M	Tm	<	0.000260				
O	Cr	<	0.002500	O	Li	<	0.000110	M	Rh	<	0.000520	M	U	<	0.000260				
M	Cs	<	0.002600	M	Lu	<	0.000260	M	Ru	<	0.000260	M	V	<	0.000260				
O	Cu		0.357085	O	Mg		0.001203	O	S	<	0.017000	M	W	<	0.000260				
M	Dy	<	0.000260	O	Mn	<	0.000220	M	Sb	<	0.014000	M	Y	<	0.000260				
M	Er	<	0.000260	M	Mo	<	0.000260	O	Sc	<	0.000220	M	Yb	<	0.000260				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	S2-CR709784
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr Metal
Starting Material Lot#:	2328
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL

Density: 1.072 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001700	M	Eu	<	0.003400	O	Na		0.090372	M	Se	<	0.012000	O	Zn	<	0.006100
M	Al		0.034916	O	Fe		0.246471	M	Nb	<	0.017000	n	Si	<		M	Zr	<	0.007800
M	As	<	0.028000	O	Ga	<	0.013000	M	Nd	<	0.013000	M	Sm	<	0.006900				
M	Au	<	0.001700	M	Gd	<	0.000560	M	Ni		0.016020	M	Sn		0.006983				
O	B	<	0.025000	O	Ge	<	0.014000	M	Os	<	0.000560	M	Sr		0.006367				
M	Ba	<	0.008900	M	Hf	<	0.000560	i	P	<		M	Ta	<	0.000560				
M	Be	<	0.013000	M	Hg	<	0.001700	M	Pb		0.010064	M	Tb	<	0.000560				
M	Bi	<	0.002300	M	Ho	<	0.000560	M	Pd	<	0.021000	M	Te	<	0.010000				
O	Ca		0.075995	M	In	<	0.000560	M	Pr	<	0.001700	M	Th	<	0.000560				
M	Cd	<	0.000560	M	Ir	<	0.000560	M	Pt	<	0.001200	O	Ti		0.013555				
M	Ce	<	0.001200	O	K		0.043132	i	Rb	<		M	Tl	<	0.000560				
M	Co	<	0.002600	M	La	<	0.001200	M	Re	<	0.001200	O	Tm	<	0.013000				
s	Cr	<		O	Li		0.000390	M	Rh	<	0.095000	M	U	<	0.000560				
M	Cs	<	0.007800	M	Lu	<	0.000560	M	Ru	<	0.087000	O	V		0.014993				
O	Cu		0.007599	O	Mg		0.000883	i	S	<		M	W	<	0.049000				
M	Dy	<	0.000560	M	Mn		0.008626	M	Sb	<	0.003400	M	Y	<	0.001700				
M	Er	<	0.019000	M	Mo	<	0.032000	M	Sc		0.003080	M	Yb	<	0.000560				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	S2-V711005
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium Pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL

Density: 1.104 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000110	M	Eu	<	0.000110	O	Na		0.120000	M	Se	<	0.009400	M	Zn		0.009400
O	Al		0.120000	O	Fe		0.460000	M	Nb	<	0.001300	O	Si		0.270000	M	Zr	<	0.002900
M	As	<	0.000210	M	Ga	<	0.009300	M	Nd	<	0.000610	M	Sm	<	0.000110				
M	Au	<	0.004700	M	Gd	<	0.000110	M	Ni		0.012000	M	Sn		0.003900				
M	B		0.051000	M	Ge	<	0.000410	M	Os	<	0.000110	O	Sr		0.007100				
M	Ba		0.003600	M	Hf	<	0.000110	O	P	<	0.034000	M	Ta	<	0.000110				
O	Be	<	0.000560	M	Hg	<	0.000410	M	Pb		0.001400	M	Tb	<	0.000110				
M	Bi	<	0.000210	M	Ho	<	0.000110	M	Pd	<	0.000410	M	Te	<	0.000110				
O	Ca		0.730000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210				
M	Cd	<	0.000610	M	Ir	<	0.000110	M	Pt	<	0.000110	M	Ti		0.017000				
M	Ce	<	0.000610	M	K		0.052000	M	Rb	<	0.000310	M	Tl	<	0.000110				
M	Co	<	0.001300	M	La	<	0.000410	M	Re		0.001700	M	Tm	<	0.000110				
O	Cr		0.170000	M	Li	<	0.000810	M	Rh	<	0.000110	M	U	<	0.000410				
M	Cs		0.005600	M	Lu	<	0.000110	M	Ru	<	0.000110	s	V	<					
M	Cu	<	0.001300	M	Mg		0.053000	i	S	<		M	W		0.002000				
M	Dy	<	0.000110	M	Mn		0.007900	M	Sb		0.078000	M	Y	<	0.000110				
M	Er	<	0.000110	M	Mo		0.094000	M	Sc	<	0.000410	M	Yb	<	0.000110				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

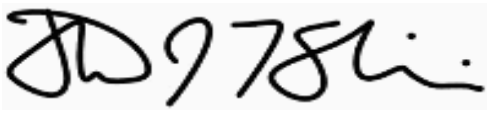
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	T2-AL716102
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Aluminum Nitrate Nonahydrate
Starting Material Lot#:	2460
Starting Material Purity:	99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10059 ± 40 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 140903

Assay Method #2 **10044 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10049 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002100	M	Eu	<	0.002100	O	Na		0.352819	M	Se	<	0.005200	M	Zn	0.006018
s	Al	<		O	Fe		0.074714	M	Nb	<	0.000520	O	Si		0.017848	O	Zr	0.004358
M	As		0.008716	O	Ga		0.112072	M	Nd	<	0.000520	M	Sm	<	0.000520			
M	Au	<	0.008400	M	Gd	<	0.001100	O	Ni	<	0.006000	M	Sn		0.000747			
O	B	<	0.014000	M	Ge	<	0.005200	M	Os	<	0.000650	O	Sr		0.000518			
O	Ba		0.012867	M	Hf	<	0.004100	n	P	<		M	Ta	<	0.000520			
O	Be	<	0.000270	M	Hg	<	0.002000	M	Pb		0.002282	M	Tb	<	0.000520			
M	Bi		0.001930	M	Ho	<	0.000520	M	Pd	<	0.000520	M	Te	<	0.001100			
O	Ca		0.076790	M	In	<	0.002100	M	Pr	<	0.000520	M	Th	<	0.000520			
M	Cd	<	0.000520	M	Ir	<	0.000650	M	Pt	<	0.000520	O	Ti		0.001930			
M	Ce	<	0.001100	O	K		0.043583	M	Rb	<	0.000520	M	Tl	<	0.000520			
O	Co	<	0.005400	M	La	<	0.002100	M	Re	<	0.000520	M	Tm	<	0.000520			
O	Cr		0.006018	O	Li		0.000112	M	Rh	<	0.000520	M	U	<	0.000520			
M	Cs		0.000643	M	Lu	<	0.000520	M	Ru	<	0.002000	M	V		0.001286			
O	Cu	<	0.008300	O	Mg		0.068488	i	S	<		M	W	<	0.009800			
M	Dy	<	0.002100	O	Mn		0.000913	M	Sb	<	0.003100	M	Y	<	0.001100			
M	Er	<	0.000520	M	Mo		0.005396	O	Sc	<	0.000950	M	Yb	<	0.000520			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3
Chemical Compatibility -Soluble in HCl, HNO3, v F and v 2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

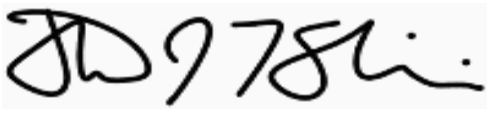
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K711973
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**9987 ± 24 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #2	**10004 ± 84 µg/mL** ICP Assay NIST SRM 3141a Lot Number: 140813
Assay Method #3	**10007 ± 45 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.246220	M	Se	<	0.007900	O	Zn		0.018056
O	Al		0.001592	O	Fe		0.005909	M	Nb	<	0.000660	O	Si		0.011490	O	Zr	<	0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660				
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660				
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055				
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660				
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660				
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000				
O	Ca		0.031187	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660				
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660				
M	Ce	<	0.000660	s	K	<		M	Rb		0.476026	M	Tl	<	0.000660				
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660				
O	Cr		0.000541	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660				
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100				
M	Cu	<	0.002700	O	Mg		0.006237	O	S		0.027905	M	W	<	0.000660				
M	Dy	<	0.000660	O	Mn		0.000476	M	Sb	<	0.000660	M	Y	<	0.000660				
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)
Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

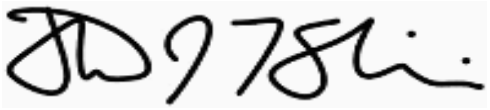
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	S2-MG704239
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10022 ± 62 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 140110

Assay Method #2 **10078 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10033 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002106	M	Eu	<	0.000910	O	Na		0.071075	O	Se	<	0.048000	O	Zn		0.003299
M	Al		0.003553	M	Fe		0.002538	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	<	0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460				
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300				
O	B		0.006853	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000279				
O	Ba		0.000964	M	Hf	<	0.000460	O	P		0.015230	M	Ta	<	0.000460				
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460				
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300				
O	Ca		0.053306	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460				
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700				
M	Ce	<	0.002300	M	K		0.048229	M	Rb		0.002411	M	Tl		0.003046				
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460				
M	Cr	<	0.002300	O	Li		0.027922	M	Rh	<	0.000460	M	U	<	0.000460				
M	Cs		0.001040	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460				
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460				
M	Dy	<	0.000460	O	Mn		0.015230	M	Sb		0.020814	O	Y	<	0.000720				
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H2O)6+2
Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4 avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	T2-CA716103
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	CaCO3
Starting Material Lot#:	2472
Starting Material Purity:	99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10005 ± 45 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **10005 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10005 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001200	M	Eu	<	0.001200	O	Na		0.006112	M	Se	<	0.024000	M	Zn		0.005362
M	Al		0.065419	O	Fe		0.009115	M	Nb	<	0.001200	O	Si		0.139417	O	Zr	<	0.006700
O	As	<	0.013000	M	Ga	<	0.015000	M	Nd	<	0.020000	M	Sm	<	0.001200				
M	Au	<	0.017000	M	Gd	<	0.004800	O	Ni		0.000793	M	Sn	<	0.003600				
O	B		0.001179	M	Ge	<	0.003600	M	Os	<	0.001200	M	Sr		0.081505				
O	Ba		0.002788	M	Hf	<	0.001200	O	P	<	0.041000	M	Ta	<	0.001200				
O	Be	<	0.000410	M	Hg	<	0.004800	M	Pb		0.001608	M	Tb	<	0.001200				
M	Bi		0.001608	M	Ho	<	0.001200	M	Pd	<	0.001200	M	Te	<	0.003600				
s	Ca	<		M	In	<	0.001200	M	Pr		0.000257	M	Th	<	0.001200				
O	Cd	<	0.001300	M	Ir	<	0.001200	M	Pt	<	0.003600	O	Ti	<	0.001900				
M	Ce		0.001029	O	K		0.009759	M	Rb	<	0.001200	M	Tl	<	0.001200				
O	Co		0.000418	M	La		0.001823	M	Re	<	0.001200	M	Tm	<	0.001200				
O	Cr		0.003324	O	Li	<	0.007300	M	Rh	<	0.001200	M	U		0.002144				
M	Cs		0.007399	M	Lu		0.000128	M	Ru	<	0.001200	M	V		0.001286				
O	Cu	<	0.011000	M	Mg		1.286934	O	S		0.055767	O	W	<	0.024000				
M	Dy	<	0.002400	O	Mn		0.004611	M	Sb	<	0.009600	O	Y		0.000536				
M	Er	<	0.002400	M	Mo		0.003539	O	Sc	<	0.001400	M	Yb	<	0.001200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, vF, v3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Ca Containing Samples)Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

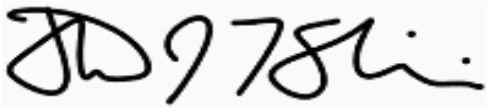
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	T2-NA717221
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2358 and 2453
Starting Material Purity:	99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9974 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **9977 ± 34 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 200413

Assay Method #3 **9987 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000930	M	Eu	<	0.000930	s	Na	<		M	Se	<	0.003800	O	Zn		0.000138
M	Al		0.004409	O	Fe		0.002393	M	Nb	<	0.000930	O	Si		0.056696	O	Zr	<	0.003200
O	As	<	0.023000	M	Ga	<	0.000930	M	Nd	<	0.000930	M	Sm	<	0.000930				
O	Au	<	0.004100	M	Gd	<	0.000930	O	Ni	<	0.003000	M	Sn	<	0.002800				
O	B		0.001385	M	Ge	<	0.004700	M	Os	<	0.000930	O	Sr		0.000251				
M	Ba		0.004031	M	Hf	<	0.000930	O	P		0.010205	M	Ta	<	0.000930				
O	Be	<	0.000130	M	Hg	<	0.000930	M	Pb	<	0.000930	M	Tb	<	0.000930				
M	Bi	<	0.000930	M	Ho	<	0.000930	M	Pd	<	0.000930	M	Te	<	0.001900				
O	Ca		0.176388	M	In	<	0.000930	M	Pr	<	0.000930	M	Th		0.000352				
O	Cd	<	0.000860	M	Ir	<	0.000930	M	Pt	<	0.000930	O	Ti		0.000592				
M	Ce	<	0.001900	O	K		0.302380	M	Rb	<	0.000930	M	Tl	<	0.000930				
O	Co	<	0.001800	O	La	<	0.002100	M	Re	<	0.000930	M	Tm	<	0.000930				
M	Cr	<	0.002800	O	Li		0.000031	M	Rh	<	0.000930	M	U	<	0.000930				
M	Cs	<	0.000930	M	Lu	<	0.000930	M	Ru	<	0.001900	O	V	<	0.001600				
O	Cu	<	0.003900	O	Mg		0.026458	O	S		0.040317	O	W	<	0.028000				
M	Dy	<	0.000930	O	Mn	<	0.000740	M	Sb	<	0.000930	O	Y	<	0.000860				
M	Er	<	0.000930	O	Mo	<	0.003600	O	Sc	<	0.000610	O	Yb	<	0.000250				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

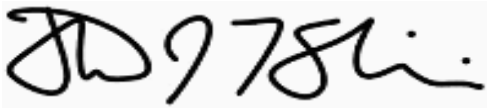
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	S2-U707914
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	P2-2322
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **998 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000270	M	Eu	<	0.000270	M	Na	<	0.011000	M	Se	<	0.009300	M	Zn	0.002358
M	Al	<	0.011000	M	Fe		0.003222	M	Nb	<	0.000270	M	Si	<	0.160000	M	Zr	< 0.001100
M	As	<	0.002400	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270			
M	Au	<	0.000270	M	Gd	<	0.000270	M	Ni	<	0.020000	M	Sn	<	0.011000			
M	B	<	0.000270	M	Ge	<	0.000800	M	Os	<	0.001900	M	Sr	<	0.000270			
M	Ba	<	0.003800	M	Hf	<	0.000270	i	P	<		M	Ta	<	0.000270			
M	Be	<	0.000270	M	Hg	<	0.000540	M	Pb	<	0.002200	M	Tb	<	0.000270			
M	Bi	<	0.000270	M	Ho	<	0.000270	M	Pd	<	0.000540	M	Te	<	0.003800			
M	Ca	<	0.140000	M	In	<	0.000270	M	Pr	<	0.000270	M	Th		0.000129			
M	Cd	<	0.000270	M	Ir	<	0.000270	M	Pt	<	0.000270	M	Ti	<	0.002700			
M	Ce	<	0.000540	O	K	<	0.250000	M	Rb	<	0.000800	M	Tl	<	0.000270			
M	Co	<	0.000800	M	La		0.000117	M	Re	<	0.064000	M	Tm	<	0.000270			
M	Cr		0.000943	M	Li	<	0.003000	M	Rh	<	0.000270	s	U	<				
M	Cs		0.000106	M	Lu	<	0.000270	M	Ru	<	0.000540	M	V	<	0.000540			
M	Cu	<	0.001100	M	Mg	<	0.003000	i	S	<		M	W	<	0.000540			
M	Dy	<	0.000270	M	Mn	<	0.006900	M	Sb	<	0.000270	M	Y	<	0.000270			
M	Er	<	0.000270	M	Mo	<	0.006400	M	Sc	<	0.000540	M	Yb	<	0.000270			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO22+(uranyl)
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-2
Lot Number:	T2-MEB719895
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	2.5 µg/mL ea: Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**2.499 ± 0.015 µg/mL**	**Molybdenum, Mo**	**2.500 ± 0.017 µg/mL**

Density: 1.014 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Sb	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

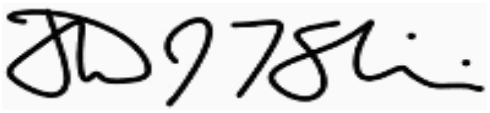
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-3
Lot Number:	T2-MEB719896
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	250 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

4 µg/mL ea:
Selenium,

2.5 µg/mL ea:

Thorium,	Thallium,
Uranium,	Vanadium,
Zinc,	Manganese,
Cadmium,	Cobalt,
Chromium,	Copper,
Arsenic,	Barium,
Beryllium,	Nickel,
Lead,	Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	250.0 ± 0.9 µg/mL	Arsenic, As	2.500 ± 0.018 µg/mL
Barium, Ba	2.501 ± 0.013 µg/mL	Beryllium, Be	2.501 ± 0.015 µg/mL
Cadmium, Cd	2.501 ± 0.013 µg/mL	Calcium, Ca	250.0 ± 1.3 µg/mL
Chromium, Cr	2.500 ± 0.015 µg/mL	Cobalt, Co	2.500 ± 0.014 µg/mL
Copper, Cu	2.500 ± 0.014 µg/mL	Iron, Fe	250.0 ± 1.0 µg/mL
Lead, Pb	2.500 ± 0.013 µg/mL	Magnesium, Mg	250.0 ± 1.3 µg/mL
Manganese, Mn	2.500 ± 0.014 µg/mL	Nickel, Ni	2.500 ± 0.014 µg/mL
Potassium, K	250.0 ± 1.2 µg/mL	Selenium, Se	4.002 ± 0.024 µg/mL
Silver, Ag	2.501 ± 0.017 µg/mL	Sodium, Na	250.0 ± 1.2 µg/mL
Thallium, Tl	2.500 ± 0.017 µg/mL	Thorium, Th	2.499 ± 0.013 µg/mL
Uranium, U	2.501 ± 0.015 µg/mL	Vanadium, V	2.500 ± 0.014 µg/mL
Zinc, Zn	2.500 ± 0.014 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Th	EDTA	928	928
Th	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

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k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

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- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

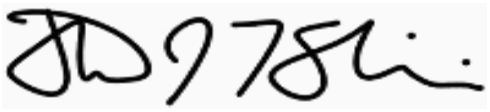
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-6020ICS-0A10
Lot Number:	T2-MEB719898
Matrix:	1.4% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Chloride,
	200 µg/mL ea: Carbon,
	100 µg/mL ea: Calcium, Aluminum, Iron, Potassium, Magnesium, Sodium, Phosphorus, Sulfur,
	2 µg/mL ea: Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**100.0 ± 0.4 µg/mL**	**Calcium, Ca**	**100.0 ± 0.5 µg/mL**
Carbon, C	**200.1 ± 0.5 µg/mL**	**Chloride, Cl**	**1 000 ± 5 µg/mL**
Iron, Fe	**100.0 ± 0.5 µg/mL**	**Magnesium, Mg**	**100.0 ± 0.5 µg/mL**
Molybdenum, Mo	**2.001 ± 0.014 µg/mL**	**Phosphorus, P**	**100.0 ± 0.6 µg/mL**
Potassium, K	**100.0 ± 0.5 µg/mL**	**Sodium, Na**	**100.0 ± 0.5 µg/mL**
Sulfur, S	**100.0 ± 0.5 µg/mL**	**Titanium, Ti**	**2.001 ± 0.015 µg/mL**

Density: 1.009 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
C	Acidimetric	84L	84L
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cl	Acidimetric	84L	84L
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mo	ICP Assay	3134	130418
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84L	84L
S	ICP Assay	traceable to 3154	P2-S680745
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

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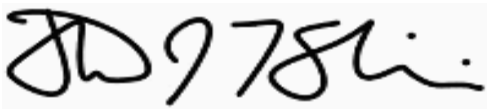
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SC1123B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-01 A	SDG:	22L0459
Sampled:	12/16/22 08:19	Prepared:	01/09/23 18:02	File ID:	SMM 01-10-23-046
% Solids:	57.17	Preparation:	SMM EPA 7471B	Analyzed:	01/10/23 14:32
Batch:	BLA0140	Sequence:	SLA0105	Initial/Final:	0.253 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GA00023

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.182	1	0.00726	0.0346	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SC1053C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-02 A	SDG:	22L0459
Sampled:	12/16/22 09:12	Prepared:	01/09/23 18:02	File ID:	SMM 01-10-23-050
% Solids:	58.81	Preparation:	SMM EPA 7471B	Analyzed:	01/10/23 14:41
Batch:	BLA0140	Sequence:	SLA0105	Initial/Final:	0.267 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GA00023

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.137	1	0.00669	0.0318	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SC1039C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-03 A	SDG:	22L0459
Sampled:	12/16/22 09:50	Prepared:	01/09/23 18:02	File ID:	SMM 01-10-23-051
% Solids:	55.85	Preparation:	SMM EPA 7471B	Analyzed:	01/10/23 14:44
Batch:	BLA0140	Sequence:	SLA0105	Initial/Final:	0.266 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GA00023

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.239	1	0.00707	0.0337	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SC1007B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-04 A	SDG:	22L0459
Sampled:	12/16/22 10:43	Prepared:	01/09/23 18:02	File ID:	SMM 01-10-23-054
% Solids:	55.23	Preparation:	SMM EPA 7471B	Analyzed:	01/10/23 14:51
Batch:	BLA0140	Sequence:	SLA0105	Initial/Final:	0.283 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GA00023

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.164	1	0.00672	0.0320	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SC1002C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-05 A	SDG:	22L0459
Sampled:	12/16/22 11:20	Prepared:	01/09/23 18:02	File ID:	SMM 01-10-23-055
% Solids:	55.31	Preparation:	SMM EPA 7471B	Analyzed:	01/10/23 14:53
Batch:	BLA0140	Sequence:	SLA0105	Initial/Final:	0.241 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GA00023

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.165	1	0.00788	0.0375	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SC1070B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-06 A	SDG:	22L0459
Sampled:	12/16/22 12:01	Prepared:	01/09/23 18:02	File ID:	SMM 01-10-23-056
% Solids:	55.76	Preparation:	SMM EPA 7471B	Analyzed:	01/10/23 14:55
Batch:	BLA0140	Sequence:	SLA0105	Initial/Final:	0.231 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GA00023

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.381	1	0.00815	0.0388	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SC1091B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-07 A	SDG:	22L0459
Sampled:	12/16/22 12:38	Prepared:	01/09/23 18:02	File ID:	SMM 01-10-23-057
% Solids:	60.63	Preparation:	SMM EPA 7471B	Analyzed:	01/10/23 14:58
Batch:	BLA0140	Sequence:	SLA0105	Initial/Final:	0.229 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GA00023

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.116	1	0.00756	0.0360	

PREPARATION BATCH SUMMARY

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLA0140
Batch Matrix: Solid
Preparation: SMM EPA 7471B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1123B	22L0459-01	SMM 01-10-23-046	01/09/23 18:02	Store frozen
LDW23-SC1053C	22L0459-02	SMM 01-10-23-050	01/09/23 18:02	Store frozen
LDW23-SC1039C	22L0459-03	SMM 01-10-23-051	01/09/23 18:02	Store frozen
LDW23-SC1007B	22L0459-04	SMM 01-10-23-054	01/09/23 18:02	Store frozen
LDW23-SC1002C	22L0459-05	SMM 01-10-23-055	01/09/23 18:02	Store frozen
LDW23-SC1070B	22L0459-06	SMM 01-10-23-056	01/09/23 18:02	Store frozen
LDW23-SC1091B	22L0459-07	SMM 01-10-23-057	01/09/23 18:02	Store frozen
Blank	BLA0140-BLK1	SMM 01-10-23-044	01/09/23 18:02	
LCS	BLA0140-BS1	SMM 01-10-23-045	01/09/23 18:02	
LDW23-SC1123B	BLA0140-DUP1	SMM 01-10-23-047	01/09/23 18:02	
LDW23-SC1123B	BLA0140-MS1	SMM 01-10-23-048	01/09/23 18:02	
LDW23-SC1123B	BLA0140-MSD1	SMM 01-10-23-049	01/09/23 18:02	
Reference	BLA0140-SRM1	SMM 01-10-23-059	01/09/23 18:02	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: SMM | Balance ID: BAL10 | Matrix: Soil
Analyst: IAR | Block ID: 9 | Date: 1/9/23
Bath Temp: 93°C | Start Time: 17:05 | End Time: 18:02

ARI Sample ID	Sample Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# $KMnO_4$ Aliquots	CLP	Comments
22L459-01	A		0.253	50	1		
-02			0.267				
-03			0.266				
-04			0.283				
-05			0.241				
-06			0.231				
-07			0.229				
23A31-01	D		0.266				
BLA140-blk	—		—				22L459-01
-bs	—		—				
-dup	—		0.257				
-MS	—		0.258				
-MSD	—		0.255				
-SRM	—		0.202				

IAR 1/9/23

Chemical/Reagent ID:

HNO_3: K11506 | H_2SO_4: L112 | HCl: —
5% $K_2S_2O_8$: K10199 | 5% $KMnO_4$: K5219 | Digest Tube Lot: 2208065

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: SMM | Balance ID: BAL10 | Matrix: Soil
Analyst: AR | Block ID: 9 | Date: 1/9/23
Bath Temp: 93°C | Start Time: 17:05 | End Time: 18:02

ARI Sample ID	Sample Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# $KMnO_4$ Aliquots	CLP	Comments
22L459-01	A		0.253	50	1		
-02			0.207				
-03			0.266				
-04			0.283				
-05			0.241				
-06			0.231				
-07			0.229				
23A31-01	D		0.266				
BLA140-blk	—		—				22L459-01
-bs	—		—				
-dup	—		0.257				
-MS	—		0.258				
-MSD	—		0.255				
-SRM	—		0.202				

AR 1/9/23

Chemical/Reagent ID:

HNO_3: K11506 | H_2SO_4: L112 | HCl: —
5% $K_2S_2O_8$: K10199 | 5% $KMnO_4$: K5219 | Digest Tube Lot: 2208065

Form I

METHOD BLANK DATA SHEET

EPA 7471B

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0459

Client: Anchor QEA, LLC | Project: AOC5 MR Phase 1

Batch: BLA0140 | Laboratory ID: BLA0140-BLK1 | Prepared: 01/09/23 18:02

Matrix: Solid | Preparation: SMM EPA 7471B | Analyzed: 01/10/23 14:28

Sequence: SLA0105 | Calibration: GA00023 | Instrument: HYDRA

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	ND	1	0.00525	0.0250	U

LCS / LCS DUPLICATE RECOVERY

EPA 7471B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/10/23 14:30
Batch:	BLA0140	Laboratory ID:	BLA0140-BS1
Preparation:	SMM EPA 7471B	Sequence Name:	LCS
Initial/Final:	0.2 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Mercury	0.500	0.444		88.7	80 - 120

* Indicates values outside of QC limits

DUPLICATES

EPA 7471B

Total Metals

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLA0140-DUP1
Batch: BLA0140
Lab Source ID: 22L0459-01
Preparation: SMM EPA 7471B
Initial/Final: 0.257 g / 50 mL
Source Sample Name: LDW23-SC1123B
% Solids: 57.17

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Mercury	20	0.182	0.200	9.26	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

MS / MS DUPLICATE RECOVERY
EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/10/23 14:37
Batch:	BLA0140	Laboratory ID:	BLA0140-MS1
Preparation:	SMM EPA 7471B	Sequence Name:	Matrix Spike
Initial/Final:	0.258 g / 50 mL	Source Sample:	LDW23-SC1123B

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	Q	MS CONCENTRATION (mg/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Mercury	0.339	0.182		0.532		103	75 - 125

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/10/23 14:39
Batch:	BLA0140	Laboratory ID:	BLA0140-MSD1
Preparation:	SMM EPA 7471B	Sequence Name:	Matrix Spike Dup
Initial/Final:	0.255 g / 50 mL	Source Sample:	LDW23-SC1123B

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Mercury	0.343	0.565		112	6.01	20	75 - 125

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLA0140-SRM1
Batch: BLA0140
Initial/Final: 0.202 g / 50 mL
Preparation: SMM EPA 7471B
Analyzed: 01/10/2023 15:02
Standard ID: K008376
Expires: 04/20/2025
Standard Lot#: D112-540
Description: Metals In Soil

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Mercury	3.3100	3.33	0.0520	0.248	D	101	86.1 - 139.9

* Values outside of QC limits

INITIAL CALIBRATION DATA

EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00023	Instrument:	HYDRA
Calibration Date:	01/10/2023 15:43		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Mercury	0	0	0.0001	1.085E+07	0.0005	7378000	0.001	6795000	0.002	6686500	0.005	6569000

INITIAL CALIBRATION DATA

EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GA00023	Instrument:	HYDRA
Calibration Date:	01/10/2023 15:43		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Mercury	6379750	55.2	1.0000		0.99	

Method: ARI 5 ppb (NO 0.05) Operator: Admin

SMM 01-10-23 SLA0105 GA00023

Date of Analysis: 10 Jan 2023 11:21:50

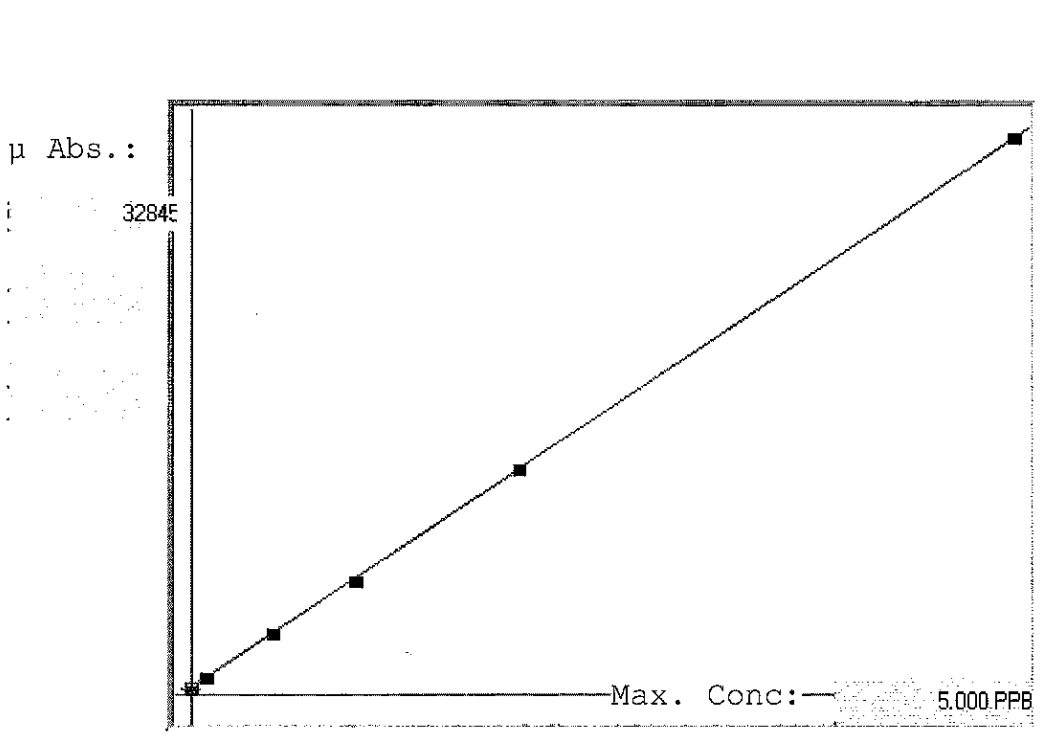
Sample ID	Mean	Units		Date	Method
SEQ-CAL1	452	PPB		10 Jan 2023 11:22:15	ARI 5 ppb (NO 0.05)
SEQ-CAL2	1085	PPB		10 Jan 2023 11:24:36	ARI 5 ppb (NO 0.05)
SEQ-CAL3	3689	PPB		10 Jan 2023 11:26:57	ARI 5 ppb (NO 0.05)
SEQ-CAL4	6795	PPB		10 Jan 2023 11:29:18	ARI 5 ppb (NO 0.05)
SEQ-CAL5	13373	PPB		10 Jan 2023 11:31:39	ARI 5 ppb (NO 0.05)
SEQ-CAL6	32845	PPB		10 Jan 2023 11:33:58	ARI 5 ppb (NO 0.05)
SEQ-ICV	96.4% 3.8567	PPB	✓	10 Jan 2023 11:48:21	ARI 5 ppb (NO 0.05)
SEQ-ICB	-0.0037	PPB	✓	10 Jan 2023 11:50:40	ARI 5 ppb (NO 0.05)
SEQ-CRL	98.0% 0.0980	PPB	✓	10 Jan 2023 11:53:01	ARI 5 ppb (NO 0.05)
SEQ-CCV	97.0% 3.8797	PPB	✓	10 Jan 2023 11:55:21	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0069	PPB	✓	10 Jan 2023 11:57:40	ARI 5 ppb (NO 0.05)
BLA0107-BLK1	-0.0017	PPB		10 Jan 2023 12:00:01	ARI 5 ppb (NO 0.05)
BLA0107-BS1	1.8849	PPB	✓	10 Jan 2023 12:02:19	ARI 5 ppb (NO 0.05)
SEQ-CCV	97.9% 3.9147	PPB	✓	10 Jan 2023 12:04:38	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0074	PPB	✓	10 Jan 2023 12:06:57	ARI 5 ppb (NO 0.05)
SEQ-CCV	94.2% 3.7681	PPB	✓	10 Jan 2023 13:22:53	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0073	PPB	✓	10 Jan 2023 13:25:12	ARI 5 ppb (NO 0.05)
22L0383-01	0.3636	PPB		10 Jan 2023 13:27:33	ARI 5 ppb (NO 0.05)
BLA0107-DUP1	0.3901	PPB		10 Jan 2023 13:29:52	ARI 5 ppb (NO 0.05)
BLA0107-MS1	0.9052	PPB	✗	10 Jan 2023 13:32:12	ARI 5 ppb (NO 0.05)
BLA0107-MSD1	1.4480	PPB	✓	10 Jan 2023 13:34:31	ARI 5 ppb (NO 0.05)
22L0383-02	0.3676	PPB		10 Jan 2023 13:36:50	ARI 5 ppb (NO 0.05)
22L0383-03	0.5261	PPB		10 Jan 2023 13:39:09	ARI 5 ppb (NO 0.05)
22L0383-04	0.6501	PPB		10 Jan 2023 13:41:29	ARI 5 ppb (NO 0.05)
22L0383-05	0.4225	PPB		10 Jan 2023 13:43:48	ARI 5 ppb (NO 0.05)
22L0383-06	0.4919	PPB		10 Jan 2023 13:46:07	ARI 5 ppb (NO 0.05)
22L0383-07	0.3484	PPB		10 Jan 2023 13:48:27	ARI 5 ppb (NO 0.05)
SEQ-CCV	95.4% 3.8140	PPB	✓	10 Jan 2023 13:50:48	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0075	PPB	✓	10 Jan 2023 13:53:07	ARI 5 ppb (NO 0.05)
22L0383-08	0.3385	PPB		10 Jan 2023 13:55:27	ARI 5 ppb (NO 0.05)
22L0417-01	1.1966	PPB		10 Jan 2023 13:57:48	ARI 5 ppb (NO 0.05)
22L0417-02	0.4957	PPB		10 Jan 2023 14:00:09	ARI 5 ppb (NO 0.05)
22L0417-03	0.6897	PPB		10 Jan 2023 14:02:28	ARI 5 ppb (NO 0.05)
22L0417-04	0.3913	PPB		10 Jan 2023 14:04:46	ARI 5 ppb (NO 0.05)
22L0417-05	0.7855	PPB		10 Jan 2023 14:07:05	ARI 5 ppb (NO 0.05)
22L0417-06	0.4024	PPB		10 Jan 2023 14:09:23	ARI 5 ppb (NO 0.05)
22L0417-07	0.6070	PPB		10 Jan 2023 14:11:43	ARI 5 ppb (NO 0.05)
22L0417-08	1.1181	PPB		10 Jan 2023 14:14:02	ARI 5 ppb (NO 0.05)
22L0417-09	0.3670	PPB		10 Jan 2023 14:16:21	ARI 5 ppb (NO 0.05)
SEQ-CCV	95.6% 3.8252	PPB	✓	10 Jan 2023 14:18:41	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0102	PPB	✓	10 Jan 2023 14:20:59	ARI 5 ppb (NO 0.05)
BLA0107-SRM1	1.3022	PPB	✓	10 Jan 2023 14:23:21	ARI 5 ppb (NO 0.05)
BLA0107-PS1	1.3207	PPB	✓	10 Jan 2023 14:25:41	ARI 5 ppb (NO 0.05)
BLA0140-BLK1	-0.0275	PPB		10 Jan 2023 14:28:01	ARI 5 ppb (NO 0.05)
BLA0140-BS1	1.7747	PPB	✓	10 Jan 2023 14:30:21	ARI 5 ppb (NO 0.05)
22L0459-01	0.5267	PPB		10 Jan 2023 14:32:42	ARI 5 ppb (NO 0.05)
BLA0140-DUP1	0.5870	PPB		10 Jan 2023 14:35:01	ARI 5 ppb (NO 0.05)
BLA0140-MS1	1.5702	PPB	✓	10 Jan 2023 14:37:21	ARI 5 ppb (NO 0.05)
BLA0140-MSD1	1.6481	PPB	✓	10 Jan 2023 14:39:40	ARI 5 ppb (NO 0.05)
22L0459-02	0.4311	PPB		10 Jan 2023 14:41:59	ARI 5 ppb (NO 0.05)
22L0459-03	0.7096	PPB		10 Jan 2023 14:44:18	ARI 5 ppb (NO 0.05)
SEQ-CCV	98.0% 3.9208	PPB	✓	10 Jan 2023 14:46:37	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0077	PPB	✓	10 Jan 2023 14:48:55	ARI 5 ppb (NO 0.05)
22L0459-04	0.5137	PPB		10 Jan 2023 14:51:17	ARI 5 ppb (NO 0.05)
22L0459-05	0.4403	PPB		10 Jan 2023 14:53:36	ARI 5 ppb (NO 0.05)
22L0459-06	0.9822	PPB		10 Jan 2023 14:55:56	ARI 5 ppb (NO 0.05)
22L0459-07	0.3225	PPB		10 Jan 2023 14:58:16	ARI 5 ppb (NO 0.05)
23A0031-01	0.4114	PPB		10 Jan 2023 15:00:36	ARI 5 ppb (NO 0.05)
BLA0140-SRM1	1.3473	PPB	✓	10 Jan 2023 15:02:57	ARI 5 ppb (NO 0.05)
BLA0198-BLK1	-0.0284	PPB		10 Jan 2023 15:05:18	ARI 5 ppb (NO 0.05)

SMM 01-10-23

Method: ARI 5 ppb (NO 0.05) Operator: Admin Date of Analysis: 10 Jan 2023 11:21:50

Sample ID	Mean	Units		Date	Method
BLA0198-BS1	1.8277	PPB	✓	10 Jan 2023 15:07:38	ARI 5 ppb (NO 0.05)
22L0423-01	1.6603	PPB		10 Jan 2023 15:09:57	ARI 5 ppb (NO 0.05)
BLA0198-DUP1	1.5811	PPB		10 Jan 2023 15:12:17	ARI 5 ppb (NO 0.05)
SEQ-CCV	95.6% 3.8231	PPB	✓	10 Jan 2023 15:14:36	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0062	PPB	✓	10 Jan 2023 15:16:54	ARI 5 ppb (NO 0.05)
BLA0198-MS1	2.6423	PPB	✓	10 Jan 2023 15:19:16	ARI 5 ppb (NO 0.05)
SEQ-CCV	95.9% 3.8354	PPB	✓	10 Jan 2023 15:21:35	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0071	PPB	✓	10 Jan 2023 15:23:54	ARI 5 ppb (NO 0.05)

ARI 5 ppb (NO 0.05)



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
SEQ-CAL1 - Blank	0.000	0.006	0.006	452	3.559	450	449	457		
SEQ-CAL2 - 0.1 PPB	0.100	0.103	0.003	1085	1.4 %	1071	1078	1106		
SEQ-CAL3 - 0.5 PPB	0.500	0.505	0.005	3689	0.8 %	3665	3673	3729		
SEQ-CAL4 - 1.0 PPB	1.000	0.984	-0.016	6794	0.6 %	6837	6812	6735		
SEQ-CAL5 - 2.0 PPB	2.000	1.999	-0.001	13372	1.0 %	13215	13366	13537		
SEQ-CAL6 - 5.0 PPB	5.000	5.003	0.003	32844	1.0 %	32396	32913	33225		

Mercury Analysis Log

Analyst: ML
Instrument: HYDRA

Date: 01/10/23
Page: 1 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
SEQ -CAL1	SMM	1X		
-CAL2				
-CAL3				
-CAL4				
-CAL5				
-CAL6				
-ICV			✓ 3.85	
-ICB			✓ -0.003	
-CRL			✓ 0.098	
-CCV			✓ 3.87	
-CCB			✓ -0.006	
BLA0107 -BLK1				
-BS1			✓ 1.884	94.2 %R
SEQ -CCV			✓ 3.91	
-CCB			✓ -0.007	seq break
-CCV			✓ 3.76	
-CCB			✓ -0.007	
22L0383 -01				
BLA0107 -DUP1				RPD = 7.03
-MS1			✓ 0.90	94.1 %R
-MSD1			✓ 1.448	108.4 %R
22L0383 -02				
-03				
-04				
-05				
-06				
-07				
SEQ -CCV			✓ 3.81	
-CCB			✓ -0.007	
22L0383 -08				

Chemical/Reagent ID:
10% $SnCl_2$: L165
14% NH_2OH/NaCl: L61

Standard ID:
Standard: L261-L266
ICV/CCV: L 266

Mercury Analysis Log

Analyst: — **Date:** —

Instrument: — **Page:** 2 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
22L0417 -01				
-02				
-03				
-04				
-05				
-06				
-07				
-08				
-09				
SEQ -CCV			✓3.82	
-CCB			✓-0.01	
BLA0107 -SRM1		10x	✓1.30	97 %R
-PS1		1x	✓1.32	95.7 %R
BLA0140 -BIK1				
-BS1			✓1.774	88.7 %R
22L0459 -01				
BLA0146 -DUP1				RPD=10.82
-MS1			✓1.57	104.3 %R
-MSD1			✓1.648	112.1 %R
22L0459 -02				
-03				
SEQ -CCV			✓3.92	
-CCB			✓-0.007	
22L0459 -04				
-05				
-06				
-07				
23A0031 -01				
BLA0140 -SRM1		10x	✓1.34	101 %R
BLA0198 -BIK1		1x		

Chemical/Reagent ID:

10% $SnCl_2$: — **14% NH_2OH/NaCl:** —

Standard ID:

Standard: — **ICV/CCV:** —

Mercury Analysis Log

Analyst: — **Date:** —

Instrument: —

Page: 3 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
↓ -BS1			✓1.827	91.3 %R
22L0423 -01				
BLA0198 -DUP1				NO RPD
SEQ -CCV			✓3.82	
↓ -CCB			✓-0.006	
BLA0198 -MS1			✓2.64	98.2 %R
SEQ -CCV			✓3.83	
↓ -CCB			✓-0.007	

MI 01/10/23

Chemical/Reagent ID:

10% $SnCl_2$: —

14% NH_2OH/NaCl: —

Standard ID:

Standard: —

ICV/CCV: —

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: HYDRA
Calibration: GA00023
Control Limt: +/- 20.00%
Sequence: SLA0105

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLA0105-ICV1	Mercury	0.0040000	0.00386	96.4	mg/L	EPA 7471B
SLA0105-CCV1	Mercury	0.0040000	0.00388	97.0	mg/L	EPA 7471B
SLA0105-CCV2	Mercury	0.0040000	0.00391	97.9	mg/L	EPA 7471B
SLA0105-CCV3	Mercury	0.0040000	0.00377	94.2	mg/L	EPA 7471B
SLA0105-CCV4	Mercury	0.0040000	0.00381	95.3	mg/L	EPA 7471B
SLA0105-CCV5	Mercury	0.0040000	0.00383	95.6	mg/L	EPA 7471B
SLA0105-CCV6	Mercury	0.0040000	0.00392	98.0	mg/L	EPA 7471B
SLA0105-CCV7	Mercury	0.0040000	0.00382	95.6	mg/L	EPA 7471B
SLA0105-CCV8	Mercury	0.0040000	0.00384	95.9	mg/L	EPA 7471B

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 7471B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: HYDRA
Sequence: SLA0105

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: GA00023
Date Analyzed: 01/10/23 11:50

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLA0105-ICB1	Mercury	-0.000004	0.000021	0.000100	mg/L	
SLA0105-CCB1	Mercury	-0.000007	0.000021	0.000100	mg/L	
SLA0105-CCB2	Mercury	-0.000007	0.000021	0.000100	mg/L	
SLA0105-CCB3	Mercury	-0.000007	0.000021	0.000100	mg/L	
SLA0105-CCB4	Mercury	-0.000008	0.000021	0.000100	mg/L	
SLA0105-CCB5	Mercury	-0.000010	0.000021	0.000100	mg/L	
SLA0105-CCB6	Mercury	-0.000008	0.000021	0.000100	mg/L	
SLA0105-CCB7	Mercury	-0.000006	0.000021	0.000100	mg/L	
SLA0105-CCB8	Mercury	-0.000007	0.000021	0.000100	mg/L	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLA0105
Instrument: HYDRA
Calibration: GA00023

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SLA0105-CAL1	SMM 01-10-23-001	NA	01/10/23 11:22
Cal Standard	SLA0105-CAL2	SMM 01-10-23-002	NA	01/10/23 11:24
Cal Standard	SLA0105-CAL3	SMM 01-10-23-003	NA	01/10/23 11:26
Cal Standard	SLA0105-CAL4	SMM 01-10-23-004	NA	01/10/23 11:29
Cal Standard	SLA0105-CAL5	SMM 01-10-23-005	NA	01/10/23 11:31
Cal Standard	SLA0105-CAL6	SMM 01-10-23-006	NA	01/10/23 11:33
Initial Cal Check	SLA0105-ICV1	SMM 01-10-23-007	NA	01/10/23 11:48
Initial Cal Blank	SLA0105-ICB1	SMM 01-10-23-008	NA	01/10/23 11:50
Instrument RL Check	SLA0105-CRL1	SMM 01-10-23-009	NA	01/10/23 11:53
Calibration Check	SLA0105-CCV1	SMM 01-10-23-010	NA	01/10/23 11:55
Calibration Blank	SLA0105-CCB1	SMM 01-10-23-011	NA	01/10/23 11:57
Calibration Check	SLA0105-CCV2	SMM 01-10-23-014	NA	01/10/23 12:04
Calibration Blank	SLA0105-CCB2	SMM 01-10-23-015	NA	01/10/23 12:06
Calibration Check	SLA0105-CCV3	SMM 01-10-23-016	NA	01/10/23 13:22
Calibration Blank	SLA0105-CCB3	SMM 01-10-23-017	NA	01/10/23 13:25
Calibration Check	SLA0105-CCV4	SMM 01-10-23-028	NA	01/10/23 13:50
Calibration Blank	SLA0105-CCB4	SMM 01-10-23-029	NA	01/10/23 13:53
Calibration Check	SLA0105-CCV5	SMM 01-10-23-040	NA	01/10/23 14:18
Calibration Blank	SLA0105-CCB5	SMM 01-10-23-041	NA	01/10/23 14:20
Blank	BLA0140-BLK1	SMM 01-10-23-044	Solid	01/10/23 14:28
LCS	BLA0140-BS1	SMM 01-10-23-045	Solid	01/10/23 14:30
LDW23-SC1123B	22L0459-01	SMM 01-10-23-046	Solid	01/10/23 14:32
LDW23-SC1123B	BLA0140-DUP1	SMM 01-10-23-047	Solid	01/10/23 14:35
LDW23-SC1123B	BLA0140-MS1	SMM 01-10-23-048	Solid	01/10/23 14:37
LDW23-SC1123B	BLA0140-MSD1	SMM 01-10-23-049	Solid	01/10/23 14:39
LDW23-SC1053C	22L0459-02	SMM 01-10-23-050	Solid	01/10/23 14:41
LDW23-SC1039C	22L0459-03	SMM 01-10-23-051	Solid	01/10/23 14:44
Calibration Check	SLA0105-CCV6	SMM 01-10-23-052	NA	01/10/23 14:46
Calibration Blank	SLA0105-CCB6	SMM 01-10-23-053	NA	01/10/23 14:48

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLA0105	Instrument:	HYDRA
		Calibration:	GA00023

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LDW23-SC1007B	22L0459-04	SMM 01-10-23-054	Solid	01/10/23 14:51
LDW23-SC1002C	22L0459-05	SMM 01-10-23-055	Solid	01/10/23 14:53
LDW23-SC1070B	22L0459-06	SMM 01-10-23-056	Solid	01/10/23 14:55
LDW23-SC1091B	22L0459-07	SMM 01-10-23-057	Solid	01/10/23 14:58
Reference	BLA0140-SRM1	SMM 01-10-23-059	Solid	01/10/23 15:02
Calibration Check	SLA0105-CCV7	SMM 01-10-23-064	NA	01/10/23 15:14
Calibration Blank	SLA0105-CCB7	SMM 01-10-23-065	NA	01/10/23 15:16
Calibration Check	SLA0105-CCV8	SMM 01-10-23-067	NA	01/10/23 15:21
Calibration Blank	SLA0105-CCB8	SMM 01-10-23-068	NA	01/10/23 15:23

DETECTION LEVEL STANDARD
EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: HYDRA
Calibration: GA00023
Sequence: SLA0105
Lab Sample ID: SLA0105-CRL1

Analyte	True	Found	%R	Units	QC Limts
Mercury	0.000100	0.000098	98.0	mg/L	70 - 130

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 7471B

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SC1123B 22L0459-01	12/16/22 08:19	12/16/22 15:47	01/09/23 18:02	24	28	01/10/23 14:32	25	28	
LDW23-SC1053C 22L0459-02	12/16/22 09:12	12/16/22 15:47	01/09/23 18:02	24	28	01/10/23 14:41	25	28	
LDW23-SC1039C 22L0459-03	12/16/22 09:50	12/16/22 15:47	01/09/23 18:02	24	28	01/10/23 14:44	25	28	
LDW23-SC1007B 22L0459-04	12/16/22 10:43	12/16/22 15:47	01/09/23 18:02	24	28	01/10/23 14:51	25	28	
LDW23-SC1002C 22L0459-05	12/16/22 11:20	12/16/22 15:47	01/09/23 18:02	24	28	01/10/23 14:53	25	28	
LDW23-SC1070B 22L0459-06	12/16/22 12:01	12/16/22 15:47	01/09/23 18:02	24	28	01/10/23 14:55	25	28	
LDW23-SC1091B 22L0459-07	12/16/22 12:38	12/16/22 15:47	01/09/23 18:02	24	28	01/10/23 14:58	25	28	
Duplicate BLA0140-DUP1	12/16/22 08:19	12/16/22 15:47	01/09/23 18:02	24	28	01/10/23 14:35	25	28	
Matrix Spike BLA0140-MS1	12/16/22 08:19	12/16/22 15:47	01/09/23 18:02	24	28	01/10/23 14:37	25	28	
Matrix Spike Dup BLA0140-MSD1	12/16/22 08:19	12/16/22 15:47	01/09/23 18:02	24	28	01/10/23 14:39	25	28	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: HYDRA

Analyte	MDL	RL	Units
Mercury	0.00525	0.0250	mg/kg

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Certificate of Analysis

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGHG1
Lot Number:	S2-HG711246
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Mercury
Starting Material:	Hg Metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 3 µg/mL

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 6 µg/mL**
ICP Assay NIST SRM 3133 Lot Number: 160921

Assay Method #2 **998 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000210	M	Eu	<	0.000210	O	Na		0.000626	M	Se	<	0.008100	M	Zn	<	0.000810
M	Al		0.000161	O	Fe	<	0.001600	M	Nb	<	0.000410	O	Si		0.000626	M	Zr	<	0.000410
M	As	<	0.002500	M	Ga	<	0.000210	M	Nd	<	0.000210	M	Sm	<	0.000210				
O	Au	<	0.001700	M	Gd	<	0.000210	O	Ni	<	0.001400	M	Sn	<	0.000410				
M	B	<	0.008500	M	Ge	<	0.000410	M	Os	<	0.003900	O	Sr	<	0.000110				
M	Ba	<	0.000210	M	Hf	<	0.000210	O	P	<	0.029000	M	Ta	<	0.000210				
O	Be	<	0.000110	s	Hg	<		M	Pb	<	0.000210	M	Tb	<	0.000210				
M	Bi	<	0.001100	M	Ho	<	0.000210	M	Pd	<	0.003500	M	Te	<	0.005700				
O	Ca		0.004754	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	O	Ti	<	0.000430				
M	Ce	<	0.000210	O	K		0.000731	M	Rb	<	0.000210	O	Tl	<	0.005400				
M	Co	<	0.000210	M	La	<	0.000210	M	Re	<	0.000210	M	Tm	<	0.000210				
O	Cr	<	0.003300	O	Li	<	0.000110	M	Rh	<	0.001100	M	U	<	0.000410				
M	Cs	<	0.000410	M	Lu	<	0.000210	M	Ru	<	0.000810	M	V	<	0.000210				
M	Cu	<	0.000810	O	Mg		0.000104	O	S	<	0.022000	M	W	<	0.001100				
M	Dy	<	0.000210	O	Mn	<	0.000430	M	Sb	<	0.000210	M	Y	<	0.000210				
M	Er	<	0.000210	M	Mo	<	0.000210	M	Sc	<	0.000210	M	Yb	<	0.000210				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+
Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.
Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.
Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 18, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 18, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-QCS-4
Lot Number:	R2-MEB695951
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	5 µg/mL ea: Mercury

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Mercury, Hg	**5.011 ± 0.023 µg/mL**		

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	061204
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The follow ing equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 20, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 20, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

K8376

Certified Reference Material

▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. **Metrological Traceability.** This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

8. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	7970	78.9	144	-	-
Antimony	277	136	49.1	161	-	-
Arsenic	101	87.4	86.6	188	-	-
Barium	411	347	84.5	173	-	-
Beryllium	124	103	82.8	162	-	-
Boron	220	133	60.4	105	-	-
Cadmium	212	160	75.5	190	-	-
Calcium	5190	4100	79.0	131	-	-
Chromium	282	231	82.0	184	-	-
Cobalt	310	241	77.8	166	-	-
Copper	165	144	87.4	188	-	-
Iron	15000	14200	94.7	144	-	-
Lead	289	266	92.1	196	-	-
Lithium	6.42	6.37	99.2	33	-	-
Magnesium	2570	2220	86.5	132	-	-
Manganese	670	555	82.8	165	-	-
Mercury	3.31	3.74	113	117	-	-
Molybdenum	253	211	83.6	158	-	-
Nickel	458	350	76.5	187	-	-
Potassium	2420	1940	80.2	136	-	-
Selenium	154	130	84.7	174	-	-
Silver	65.0	57.1	87.9	166	-	-
Sodium	161	117	73.0	123	-	-
Strontium	98.8	84.5	85.5	113	-	-
Thallium	87.4	75.4	86.3	163	-	-
Tin	112	93.8	83.8	114	-	-
Titanium	463	333	71.8	115	-	-
Uranium	208	186	89.5	43	-	-
Vanadium	103	88.6	86.0	161	-	-
Zinc	187	160	85.5	186	-	-

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

ERA

A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D115-540
Certificate Issue Date: September 14, 2021
Expiration Date: April 20, 2025
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	7970	10.4	3760 - 12200	3960 - 12000
Antimony	277	136	11.1	D.L. - 275	27.7 - 339
Arsenic	101	87.4	14.2	71.5 - 103	61.2 - 114
Barium	411	347	9.45	279 - 415	261 - 452
Beryllium	124	103	6.07	83.1 - 122	77.0 - 136
Boron	220	133	32.2	84.5 - 181	79.7 - 242
Cadmium	212	160	8.65	127 - 193	120 - 233
Calcium	5190	4100	11.2	3220 - 4970	2940 - 5710
Chromium	282	231	14.9	184 - 279	162 - 310
Cobalt	310	241	12.8	193 - 289	181 - 341
Copper	165	144	13.1	119 - 170	108 - 182
Iron	15000	14200	19.2	8600 - 19800	5010 - 23400
Lead	289	266	34.5	217 - 315	197 - 335
Lithium	6.42	6.37	18.0	4.19 - 8.54	3.13 - 9.60
Magnesium	2570	2220	6.94	1660 - 2780	1360 - 3080
Manganese	670	555	10.5	439 - 670	429 - 737
Mercury	3.31	3.74	7.72	2.85 - 4.63	2.24 - 5.23
Molybdenum	253	211	26.1	167 - 256	151 - 278
Nickel	458	350	19.3	277 - 424	245 - 504
Potassium	2420	1940	6.65	1330 - 2550	1130 - 2750
Selenium	154	130	5.42	101 - 160	87.0 - 174
Silver	65.0	57.1	9.66	44.8 - 69.5	40.1 - 74.1
Sodium	161	117	23.8	79.3 - 156	35.7 - 199
Strontium	98.8	84.5	9.49	66.6 - 102	60.3 - 109

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	87.4	75.4	4.33	60.1 - 90.7	48.5 - 102
Tin	112	93.8	10.1	71.9 - 116	52.7 - 135
Titanium	463	333	10.9	54.7 - 610	14.7 - 650
Uranium	208	186	7.30	137 - 235	125 - 247
Vanadium	103	88.6	12.2	68.6 - 109	58.1 - 119
Zinc	187	160	8.03	126 - 194	112 - 208

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Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1123B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-01 C	SDG:	22L0459
Sampled:	12/16/22 08:19	Prepared:	12/21/22 16:41	File ID:	
% Solids:	57.17	Preparation:	No Prep Wet Chem	Analyzed:	12/21/22 16:43
Batch:	BKL0557	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	57.17	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1053C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-02 D	SDG:	22L0459
Sampled:	12/16/22 09:12	Prepared:	12/21/22 16:41	File ID:	
% Solids:	58.81	Preparation:	No Prep Wet Chem	Analyzed:	12/21/22 16:43
Batch:	BKL0557	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	58.81	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1039C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-03 C	SDG:	22L0459
Sampled:	12/16/22 09:50	Prepared:	12/21/22 16:41	File ID:	
% Solids:	55.85	Preparation:	No Prep Wet Chem	Analyzed:	12/21/22 16:43
Batch:	BKL0557	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	55.85	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1007B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-04 C	SDG:	22L0459
Sampled:	12/16/22 10:43	Prepared:	12/21/22 16:41	File ID:	
% Solids:	55.23	Preparation:	No Prep Wet Chem	Analyzed:	12/21/22 16:43
Batch:	BKL0557	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	55.23	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1002C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-05 C	SDG:	22L0459
Sampled:	12/16/22 11:20	Prepared:	12/21/22 16:41	File ID:	
% Solids:	55.31	Preparation:	No Prep Wet Chem	Analyzed:	12/21/22 16:43
Batch:	BKL0557	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	55.31	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1070B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-06 D	SDG:	22L0459
Sampled:	12/16/22 12:01	Prepared:	12/21/22 16:41	File ID:	
% Solids:	55.76	Preparation:	No Prep Wet Chem	Analyzed:	12/21/22 16:43
Batch:	BKL0557	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	55.76	1	0.04	0.04	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1091B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-07 C	SDG:	22L0459
Sampled:	12/16/22 12:38	Prepared:	12/21/22 16:41	File ID:	
% Solids:	60.63	Preparation:	No Prep Wet Chem	Analyzed:	12/21/22 16:43
Batch:	BKL0557	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	60.63	1	0.04	0.04	

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BKL0557 Batch Matrix: Solid
Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1123B	22L0459-01		12/21/22 16:41	
LDW23-SC1053C	22L0459-02		12/21/22 16:41	
LDW23-SC1039C	22L0459-03		12/21/22 16:41	
LDW23-SC1007B	22L0459-04		12/21/22 16:41	
LDW23-SC1002C	22L0459-05		12/21/22 16:41	
LDW23-SC1070B	22L0459-06		12/21/22 16:41	
LDW23-SC1091B	22L0459-07		12/21/22 16:41	
Blank	BKL0557-BLK1		12/21/22 16:41	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BKL0557
Date:	12/21/2022 16:43
Analyst:	UW

Instrumentation

Drying Ovens:	1	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven:	12/21/2022 17:15	
date/time out:	12/22/2022 13:30	
elapsed hrs =	20.3	OK

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Oven Temps, °C	
Start Temp	99
Dry Cycle 1	122
Dry Cycle 2	
Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places

Cal Weight ID:	CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02		
Date & Time:	12/21/22 16:45	12/21/22 16:50	12/22/22 14:05								
Cal Wt (g): 10.0000	10.0000	10.0000	10.0000								
	Cal OK!	Cal OK!	Cal OK!								

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)	Notes
BKL0557-BLK1	58	0.8391	0.0000	0.8389			-0.0002	0.02%								
22L0417-01	59	0.8359	6.7940	4.5107			3.6748	61.68%								
BKL0557-DUP1	60	0.7776	7.7039	5.0371			4.2595	61.50%	RPD=0.3							
BKL0557-DUP2	61	0.8003	6.3422	4.2251			3.4248	61.80%	RSD=0.2							
22L0417-02	62	0.7802	8.3501	4.8577			4.0775	53.86%								
22L0417-03	63	0.7856	7.0026	4.4523			3.6667	58.98%								
22L0417-04	64	0.7710	6.4972	4.1617			3.3907	59.21%								
22L0417-05	65	0.7969	7.2976	4.4570			3.6601	56.30%								
22L0417-06	66	0.7941	7.9983	4.6838			3.8897	53.99%								
22L0417-07	67	0.7988	7.9720	4.8815			4.0827	56.92%								
22L0417-08	68	0.8014	8.1926	4.9612			4.1598	56.28%								
22L0417-09	69	0.8057	7.0289	4.6650			3.8593	62.01%								
22L0459-01	70	0.7999	6.4996	4.0584			3.2585	57.17%								
22L0459-02	71	0.7882	6.7732	4.3078			3.5196	58.81%								
22L0459-03	72	0.8163	9.8674	5.8716			5.0553	55.85%								
22L0459-04	73	0.8305	7.2984	4.4030			3.5725	55.23%								
22L0459-05	74	0.8149	6.5123	3.9659			3.1510	55.31%								
22L0459-06	75	0.8314	9.2182	5.5080			4.6766	55.76%								
22L0459-07	76	0.8229	8.3186	5.3678			4.5449	60.63%								

NOTE: Do not enter data in blue shaded cells as they are calculated fields. Green shaded cells MAY be altered if a rewigh is called for.

TOTAL SOLIDS (TS) BENCHSHEET for Solid samples

Method: Total Solids, Metals Correction

dry at 104°C (12-24 hr)

Batch:	BLA0200
Date:	1/9/2023 17:09
Analyst:	AR

Instrumentation

Drying Oven: OVEN07

Analytical Balance: BAL10

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven: 1/9/2023 18:15

date/time out: 1/10/2023 13:19

elapsed hrs = 19.1 OK

Temp in: 102 °C

Temp out: 102 °C

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Sample ID	Tare Weight (g)	Tare + Sample Weight (g)	Tare + Sample Dry Weight @ 104°C (g) 1	2	3	dry Wt (g)	TS (%)	Notes
22J0169-03	1.0400	10.0530	9.2180			8.1780	90.74%	
22J0169-05	1.0410	10.0600	8.5730			7.5320	83.51%	
22J0169-06	1.0350	10.0460	9.2340			8.1990	90.99%	
22J0169-07	1.0340	10.0740	9.3030			8.2690	91.47%	
22J0169-09	1.0510	10.0670	9.7060			8.6550	96.00%	
22J0169-12	1.0270	10.0690	9.7150			8.6880	96.08%	
22J0169-17	1.0820	10.0550	9.5520			8.4700	94.39%	
22J0169-19	1.0420	10.0710	9.7060			8.6640	95.96%	
22J0169-22	0.9920	10.0960	8.9070			7.9150	86.94%	
22J0169-23	1.0610	10.0240	8.3700			7.3090	81.55%	
22J0169-24	1.0500	10.0590	9.8060			8.7560	97.19%	
22J0169-27	1.0390	10.0590	9.6470			8.6080	95.43%	
22J0169-30	1.0540	10.0370	8.7650			7.7110	85.84%	
22J0169-31	1.0630	10.0590	9.6780			8.6150	95.76%	
22J0169-33	1.0650	10.0440	9.8430			8.7780	97.76%	
22J0169-36	1.0240	10.0680	9.7670			8.7430	96.67%	
22J0169-39	1.0000	10.0150	9.5840			8.5840	95.22%	
22J0169-42	1.0380	10.0140	8.8620			7.8240	87.17%	
22J0169-43	1.0270	10.0570	8.2100			7.1830	79.55%	
22J0169-44	1.0400	10.0220	9.4000			8.3600	93.08%	
22L0423-01	1.0510	10.0120	7.0220			5.9710	66.63%	
22L0459-01	1.0320	10.0530	6.2630			5.2310	57.99%	
22L0459-02	1.0460	10.0820	6.2940			5.2480	58.08%	
22L0459-03	1.0210	10.0380	5.9840			4.9630	55.04%	
22L0459-04	1.0100	10.0880	5.9160			4.9060	54.04%	
22L0459-05	1.0050	10.0650	6.0370			5.0320	55.54%	
22L0459-06	1.0380	10.0050	5.9820			4.9440	55.14%	
22L0459-07	1.0360	10.0920	6.6670			5.6310	62.18%	

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BKL0557
Laboratory ID: BKL0557-BLK1
Prepared: 12/21/22 16:41
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 12/21/22 16:43
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SC1123B 22L0459-01	12/16/22 08:19	12/16/22 15:47	12/21/22 16:41	5	28	12/21/22 16:43	5	28	
LDW23-SC1053C 22L0459-02	12/16/22 09:12	12/16/22 15:47	12/21/22 16:41	5	28	12/21/22 16:43	5	28	
LDW23-SC1039C 22L0459-03	12/16/22 09:50	12/16/22 15:47	12/21/22 16:41	5	28	12/21/22 16:43	5	28	
LDW23-SC1007B 22L0459-04	12/16/22 10:43	12/16/22 15:47	12/21/22 16:41	5	28	12/21/22 16:43	5	28	
LDW23-SC1002C 22L0459-05	12/16/22 11:20	12/16/22 15:47	12/21/22 16:41	5	28	12/21/22 16:43	5	28	
LDW23-SC1070B 22L0459-06	12/16/22 12:01	12/16/22 15:47	12/21/22 16:41	5	28	12/21/22 16:43	5	28	
LDW23-SC1091B 22L0459-07	12/16/22 12:38	12/16/22 15:47	12/21/22 16:41	5	28	12/21/22 16:43	5	28	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids	0.04	0.04	%

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1123B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-01 C	SDG:	22L0459
Sampled:	12/16/22 08:19	Prepared:	12/30/22 08:30	File ID:	CubeData_01032023@1005-007
% Solids:	57.17	Preparation:	Plumb 1981	Analyzed:	01/01/23 09:03
Batch:	BKL0652	Sequence:	SKL0336	Initial/Final:	0.5469 g Wet / 0.5469 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.98	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1053C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-02 C	SDG:	22L0459
Sampled:	12/16/22 09:12	Prepared:	12/30/22 08:30	File ID:	CubeData_01032023@1005-038
% Solids:	58.81	Preparation:	Plumb 1981	Analyzed:	01/01/23 10:34
Batch:	BKL0652	Sequence:	SKL0336	Initial/Final:	0.553 g Wet / 0.553 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.53	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1039C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-03 C	SDG:	22L0459
Sampled:	12/16/22 09:50	Prepared:	12/30/22 08:30	File ID:	CubeData_01032023@1005-049
% Solids:	55.85	Preparation:	Plumb 1981	Analyzed:	01/01/23 11:05
Batch:	BKL0652	Sequence:	SKL0336	Initial/Final:	0.5041 g Wet / 0.5041 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.16	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1007B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-04 C	SDG:	22L0459
Sampled:	12/16/22 10:43	Prepared:	12/30/22 08:30	File ID:	CubeData_01032023@1005-079
% Solids:	55.23	Preparation:	Plumb 1981	Analyzed:	01/01/23 12:36
Batch:	BKL0652	Sequence:	SKL0336	Initial/Final:	0.5855 g Wet / 0.5855 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.28	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1002C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-05 C	SDG:	22L0459
Sampled:	12/16/22 11:20	Prepared:	12/30/22 08:30	File ID:	CubeData_01032023@1005-089
% Solids:	55.31	Preparation:	Plumb 1981	Analyzed:	01/01/23 13:06
Batch:	BKL0652	Sequence:	SKL0336	Initial/Final:	0.5181 g Wet / 0.5181 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.81	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1070B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-06 C	SDG:	22L0459
Sampled:	12/16/22 12:01	Prepared:	12/30/22 08:30	File ID:	CubeData_01032023@1005-099
% Solids:	55.76	Preparation:	Plumb 1981	Analyzed:	01/01/23 13:36
Batch:	BKL0652	Sequence:	SKL0336	Initial/Final:	0.5416 g Wet / 0.5416 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.64	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1091B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	22L0459-07 C	SDG:	22L0459
Sampled:	12/16/22 12:38	Prepared:	12/30/22 08:30	File ID:	CubeData_01032023@1005-112
% Solids:	60.63	Preparation:	Plumb 1981	Analyzed:	01/01/23 14:07
Batch:	BKL0652	Sequence:	SKL0336	Initial/Final:	0.5306 g Wet / 0.5306 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.78	1	0.02	0.02	

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Batch: BKL0652 Batch Matrix: Solid Preparation: Plumb 1981

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1123B	22L0459-01	eData_01032023@1005-	12/30/22 08:30	
LDW23-SC1053C	22L0459-02	eData_01032023@1005-	12/30/22 08:30	
LDW23-SC1039C	22L0459-03	eData_01032023@1005-	12/30/22 08:30	
LDW23-SC1007B	22L0459-04	eData_01032023@1005-	12/30/22 08:30	
LDW23-SC1002C	22L0459-05	eData_01032023@1005-	12/30/22 08:30	
LDW23-SC1070B	22L0459-06	eData_01032023@1005-	12/30/22 08:30	
LDW23-SC1091B	22L0459-07	eData_01032023@1005-	12/30/22 08:30	
Blank	BKL0652-BLK1	eData_01032023@1005-	12/30/22 08:30	
LCS	BKL0652-BS1	eData_01032023@1005-	12/30/22 08:30	
LDW23-SC1123B	BKL0652-DUP2	eData_01032023@1005-	12/30/22 08:30	
MRL Check	BKL0652-MRL1	eData_01032023@1005-	12/30/22 08:30	
LDW23-SC1123B	BKL0652-MS2	eData_01032023@1005-	12/30/22 08:30	
Reference	BKL0652-SRM1	eData_01032023@1005-	12/30/22 08:30	

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0459

Client: Anchor QEA, LLC | Project: AOC5 MR Phase 1

Batch: BKL0652 | Laboratory ID: BKL0652-BLK1 | Prepared: 12/30/22 08:30

Matrix: Solid | Preparation: Plumb 1981 | Analyzed: 01/01/23 01:25

Sequence: SKL0336 | Calibration: FD00070 | Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/01/23 01:56
Batch:	BKL0652	Laboratory ID:	BKL0652-BS1
Preparation:	Plumb 1981	Sequence Name:	LCS
Initial/Final:	0.0213 g / 0.0213 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	44.4		100	80 - 120

* Indicates values outside of QC limits

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BKL0652-DUP2
Batch: BKL0652
Lab Source ID: 22L0459-01
Preparation: Plumb 1981
Initial/Final: 0.5256 g / 0.5256 g
Source Sample Name: LDW23-SC1123B
% Solids: 57.17

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	1.98	2.09	5.50	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SC1123B

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	01/01/23 10:04
Batch:	BKL0652	Laboratory ID:	BKL0652-MS2
Preparation:	Plumb 1981	Sequence Name:	Matrix Spike
Initial/Final:	0.5037 g / 0.5037 g	Source Sample:	LDW23-SC1123B

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	1.28	1.98		3.51		119	75 - 125

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SKD0371
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SKD0371-CAL1	CubeData_04272022@1136-001	NA	04/26/22 12:30
Cal Standard	SKD0371-CAL2	CubeData_04272022@1136-002	NA	04/26/22 13:00
Cal Standard	SKD0371-CAL3	CubeData_04272022@1136-003	NA	04/26/22 13:30
Cal Standard	SKD0371-CAL4	CubeData_04272022@1136-004	NA	04/26/22 14:00
Cal Standard	SKD0371-CAL5	CubeData_04272022@1136-005	NA	04/26/22 14:30
Cal Standard	SKD0371-CAL6	CubeData_04272022@1136-006	NA	04/26/22 15:00
Cal Standard	SKD0371-CAL7	CubeData_04272022@1136-007	NA	04/26/22 15:30
Cal Standard	SKD0371-CAL8	CubeData_04272022@1136-008	NA	04/26/22 16:00
Cal Standard	SKD0371-CAL9	CubeData_04272022@1136-009	NA	04/26/22 16:30
Cal Standard	SKD0371-CALA	CubeData_04272022@1136-010	NA	04/26/22 17:00
Cal Standard	SKD0371-CALB	CubeData_04272022@1136-011	NA	04/26/22 17:30
Cal Standard	SKD0371-CALC	CubeData_04272022@1136-012	NA	04/26/22 18:00
Cal Standard	SKD0371-CALD	CubeData_04272022@1136-013	NA	04/26/22 18:30
Cal Standard	SKD0371-CALE	CubeData_04272022@1136-014	NA	04/26/22 19:00
Cal Standard	SKD0371-CALF	CubeData_04272022@1136-015	NA	04/26/22 19:31
Cal Standard	SKD0371-CALG	CubeData_04272022@1136-016	NA	04/26/22 20:01
Cal Standard	SKD0371-CALH	CubeData_04272022@1136-017	NA	04/26/22 20:31
Cal Standard	SKD0371-CALI	CubeData_04272022@1136-018	NA	04/26/22 21:01
Cal Standard	SKD0371-CALJ	CubeData_04272022@1136-019	NA	04/26/22 21:31
Cal Standard	SKD0371-CALK	CubeData_04272022@1136-020	NA	04/26/22 22:01
Initial Cal Check	SKD0371-ICV1	CubeData_04272022@1136-027	NA	04/27/22 02:03
Initial Cal Blank	SKD0371-ICB1	CubeData_04272022@1136-028	NA	04/27/22 02:33
Cal Standard	SKD0371-CALL	CubeData_04272022@1136-021	NA	04/27/22 11:08
Cal Standard	SKD0371-CALM	CubeData_04272022@1136-022	NA	04/27/22 11:08
Cal Standard	SKD0371-CALN	CubeData_04272022@1136-023	NA	04/27/22 11:09
Cal Standard	SKD0371-CALO	CubeData_04272022@1136-024	NA	04/27/22 11:09

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SKL0336	Instrument:	TOC Cube
		Calibration:	FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MRL Check	BKL0652-MRL1	CubeData_01032023@1005-525	Solid	01/01/23 00:55
Blank	BKL0652-BLK1	CubeData_01032023@1005-531	Solid	01/01/23 01:25
LCS	BKL0652-BS1	CubeData_01032023@1005-537	Solid	01/01/23 01:56
Reference	BKL0652-SRM1	CubeData_01032023@1005-543	Solid	01/01/23 02:26
Calibration Check	SKL0336-CCVE	CubeData_01032023@1005-583	NA	01/01/23 05:30
Calibration Blank	SKL0336-CCBE	CubeData_01032023@1005-589	NA	01/01/23 06:00
LDW23-SC1123B	22L0459-01	CubeData_01032023@1005-007	Solid	01/01/23 09:03
LDW23-SC1123B	BKL0652-DUP2	CubeData_01032023@1005-020	Solid	01/01/23 09:34
LDW23-SC1123B	BKL0652-MS2	CubeData_01032023@1005-028	Solid	01/01/23 10:04
LDW23-SC1053C	22L0459-02	CubeData_01032023@1005-038	Solid	01/01/23 10:34
LDW23-SC1039C	22L0459-03	CubeData_01032023@1005-049	Solid	01/01/23 11:05
Calibration Check	SKL0336-CCVF	CubeData_01032023@1005-061	NA	01/01/23 11:35
Calibration Blank	SKL0336-CCBF	CubeData_01032023@1005-071	NA	01/01/23 12:05
LDW23-SC1007B	22L0459-04	CubeData_01032023@1005-079	Solid	01/01/23 12:36
LDW23-SC1002C	22L0459-05	CubeData_01032023@1005-089	Solid	01/01/23 13:06
LDW23-SC1070B	22L0459-06	CubeData_01032023@1005-099	Solid	01/01/23 13:36
LDW23-SC1091B	22L0459-07	CubeData_01032023@1005-112	Solid	01/01/23 14:07
Calibration Check	SKL0336-CCVG	CubeData_01032023@1005-136	NA	01/01/23 15:07
Calibration Blank	SKL0336-CCBG	CubeData_01032023@1005-147	NA	01/01/23 15:38
Initial Cal Check	SKL0336-ICV1	CubeData_01032023@1005-040	NA	12/28/22 15:57
Initial Cal Blank	SKL0336-ICB1	CubeData_01032023@1005-047	NA	12/28/22 16:28
Calibration Check	SKL0336-CCV1	CubeData_01032023@1005-160	NA	12/28/22 22:02
Calibration Blank	SKL0336-CCB1	CubeData_01032023@1005-166	NA	12/28/22 22:33
Calibration Check	SKL0336-CCV2	CubeData_01032023@1005-237	NA	12/29/22 04:09
Calibration Blank	SKL0336-CCB2	CubeData_01032023@1005-244	NA	12/29/22 04:39
Calibration Check	SKL0336-CCV3	CubeData_01032023@1005-314	NA	12/29/22 10:16
Calibration Blank	SKL0336-CCB3	CubeData_01032023@1005-321	NA	12/29/22 10:47
Calibration Check	SKL0336-CCV4	CubeData_01032023@1005-386	NA	12/29/22 16:24
Calibration Blank	SKL0336-CCB4	CubeData_01032023@1005-392	NA	12/29/22 16:54

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

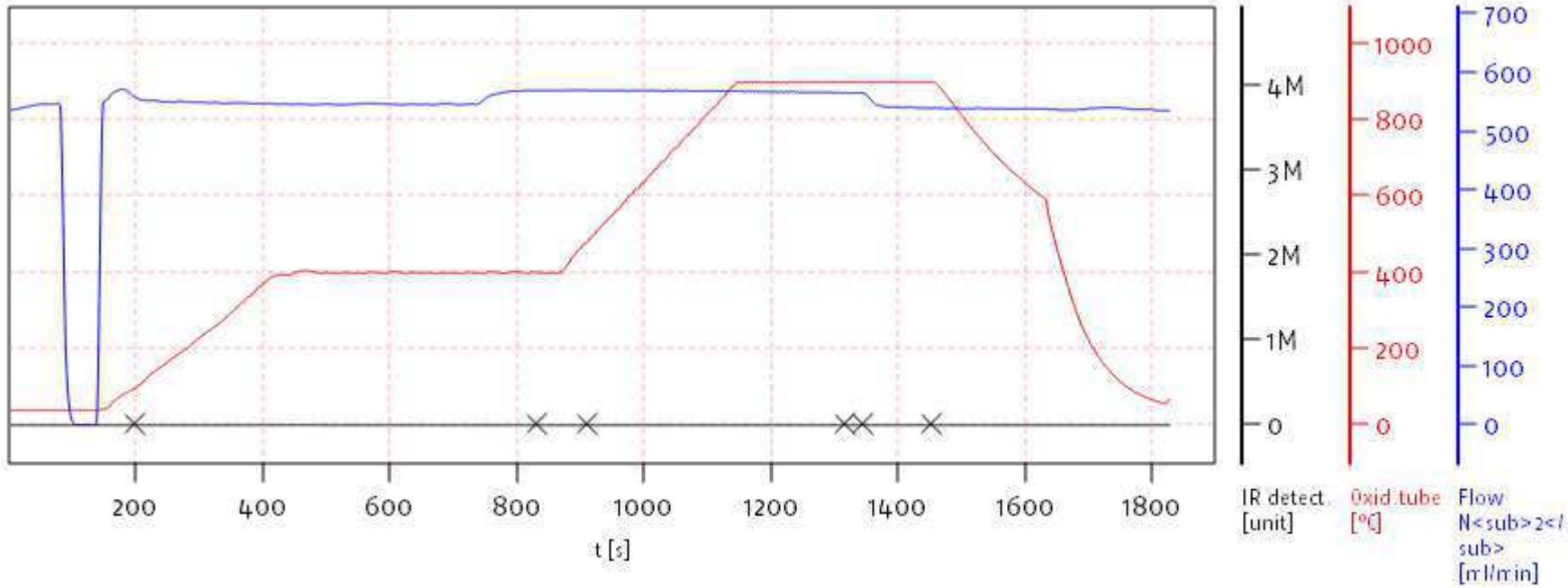
Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0336

SDG: 22L0459
Project: AOC5 MR Phase 1
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SKL0336-CCV5	CubeData_01032023@1005-458	NA	12/29/22 22:30
Calibration Blank	SKL0336-CCB5	CubeData_01032023@1005-466	NA	12/29/22 23:01
Calibration Check	SKL0336-CCV6	CubeData_01032023@1005-536	NA	12/30/22 04:38
Calibration Blank	SKL0336-CCB6	CubeData_01032023@1005-542	NA	12/30/22 05:09
Calibration Check	SKL0336-CCV7	CubeData_01032023@1005-615	NA	12/30/22 10:45
Calibration Blank	SKL0336-CCB7	CubeData_01032023@1005-619	NA	12/30/22 11:16
Calibration Check	SKL0336-CCV8	CubeData_01032023@1005-111	NA	12/30/22 16:52
Calibration Blank	SKL0336-CCB8	CubeData_01032023@1005-124	NA	12/30/22 17:23
Calibration Check	SKL0336-CCV9	CubeData_01032023@1005-205	NA	12/30/22 22:58
Calibration Blank	SKL0336-CCB9	CubeData_01032023@1005-210	NA	12/30/22 23:29
Calibration Check	SKL0336-CCVA	CubeData_01032023@1005-283	NA	12/31/22 05:04
Calibration Blank	SKL0336-CCBA	CubeData_01032023@1005-288	NA	12/31/22 05:35
Calibration Check	SKL0336-CCVB	CubeData_01032023@1005-358	NA	12/31/22 11:11
Calibration Blank	SKL0336-CCBB	CubeData_01032023@1005-364	NA	12/31/22 11:41
Calibration Check	SKL0336-CCVC	CubeData_01032023@1005-425	NA	12/31/22 17:17
Calibration Blank	SKL0336-CCBC	CubeData_01032023@1005-431	NA	12/31/22 17:48
Calibration Check	SKL0336-CCVD	CubeData_01032023@1005-504	NA	12/31/22 23:23
Calibration Blank	SKL0336-CCBD	CubeData_01032023@1005-511	NA	12/31/22 23:53

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	12/28/2022 2:26 PM	bl	0.000	8 478	0.000	0.000	1 876	3 414	0.000	0.000	1.0000	1.0000



Name:

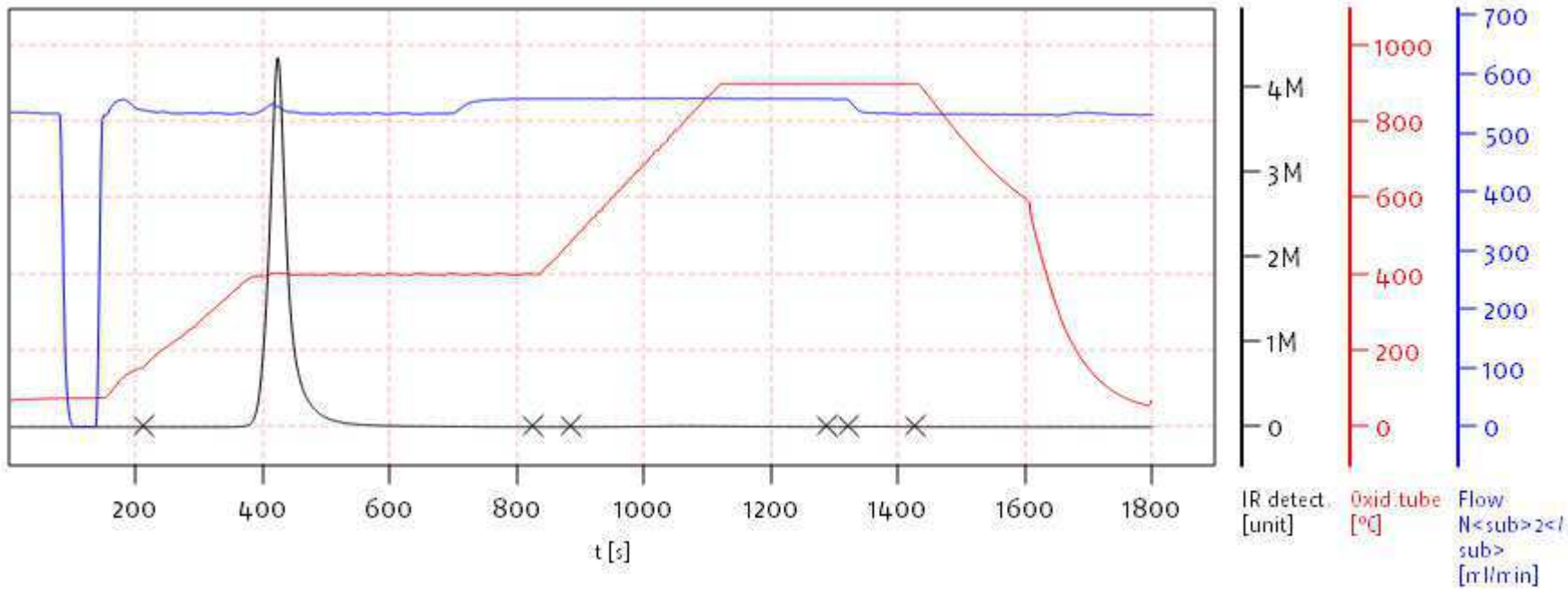
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	Dfactor	19.10		CARBON	12/28/2022 2:56 PM	bl	44.446	5 792 157	44.924	0.000	17 756	85 597	44.446	0.479	0.9511	1.0000



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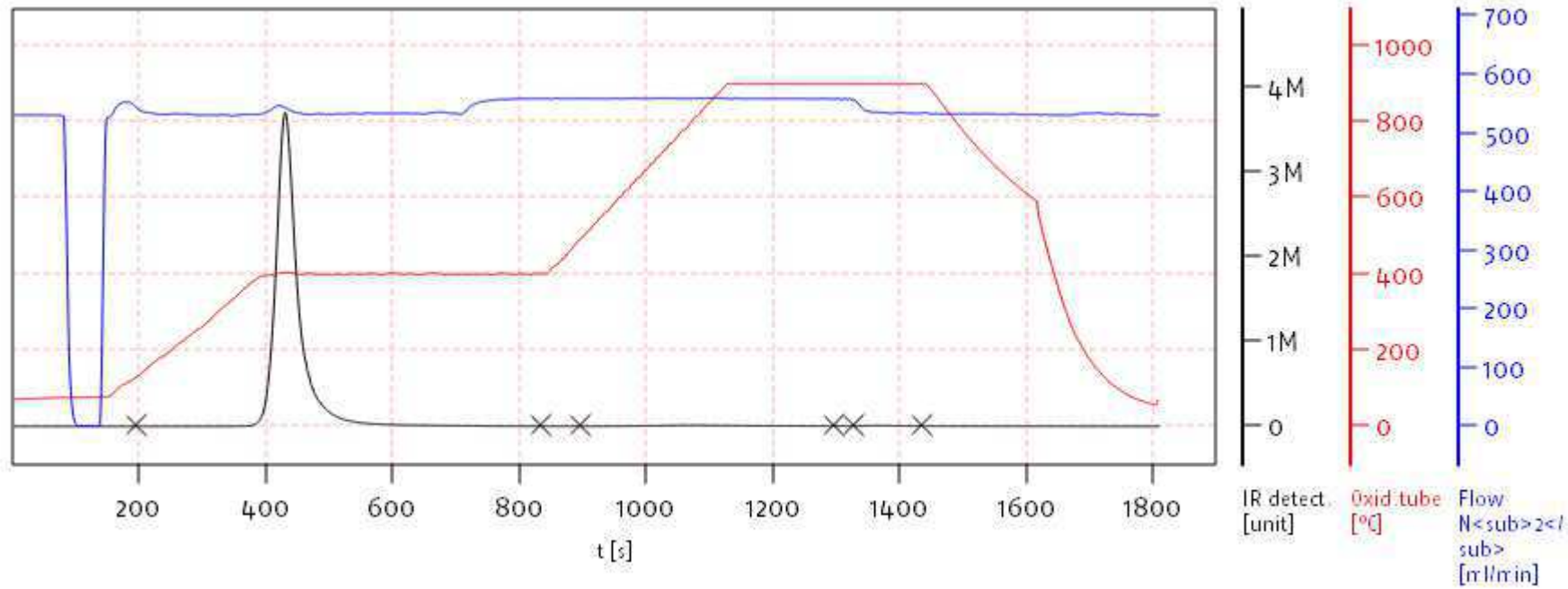
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	Dfactor	19.00		CARBON	12/28/2022 3:27 PM	bl	44.446	5 663 509	45.027	0.000	24 903	97 934	44.446	0.582	0.9677	1.0000



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Access: soliTOC superuser

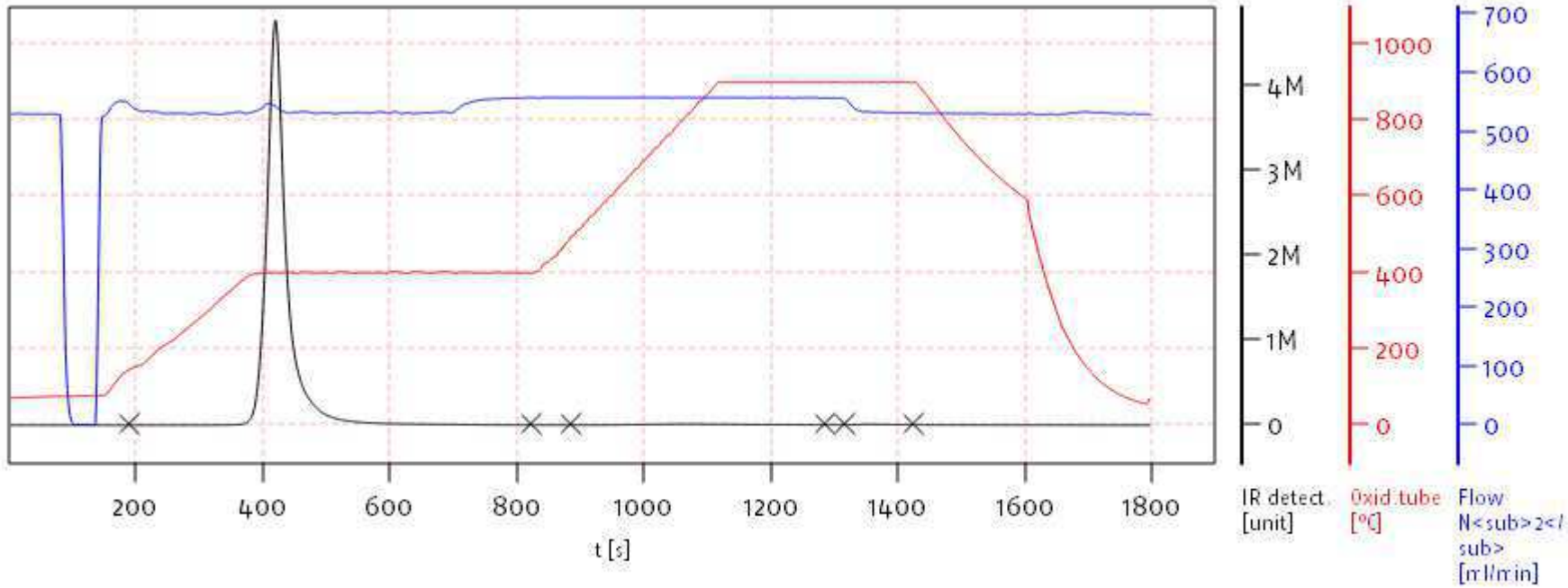
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SKL0336-ICV1	21.60		CARBON	12/28/2022 3:57 PM	bl	44.523	6 501 448	45.056	0.001	26 669	100 954	44.522	0.533	0.9594	1.0000



Name:

Access: soliTOC superuser

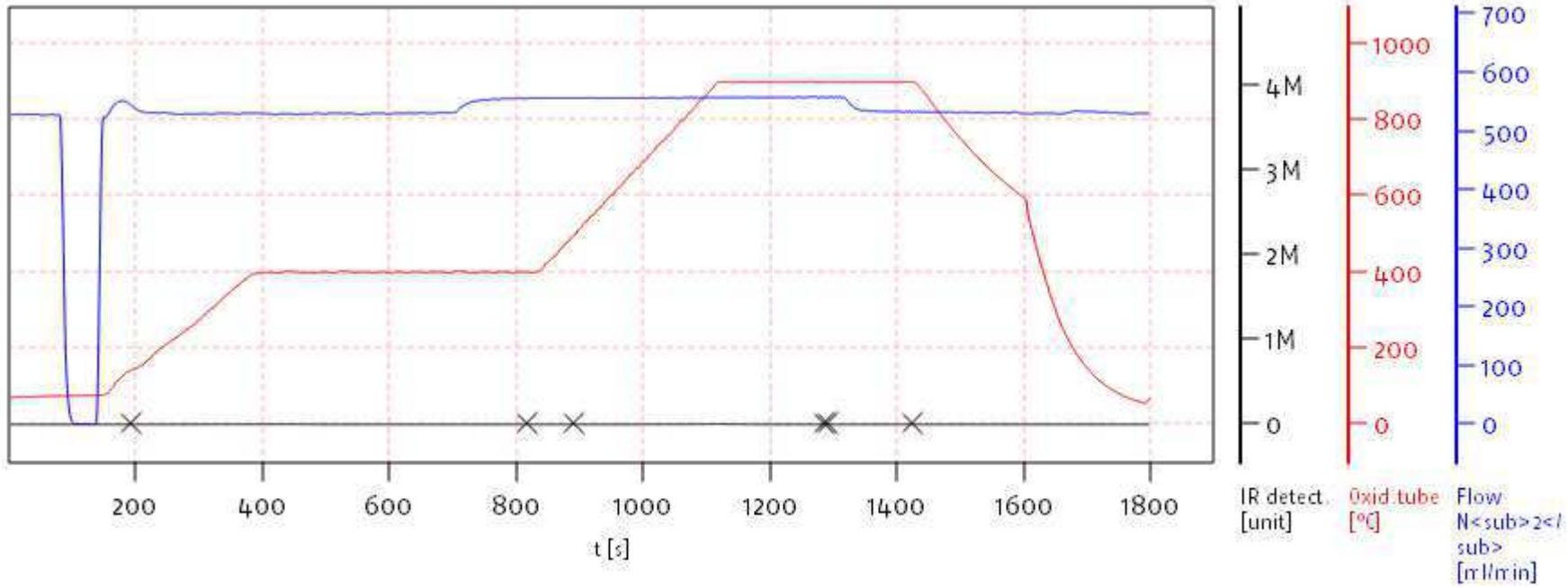
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SKL0336-ICB1	538.20		CARBON	12/28/2022 4:28 PM	bl,C2u	0.000	16 336	0.000	0.000	992	16 586	0.000	0.000	0.9594	1.0000



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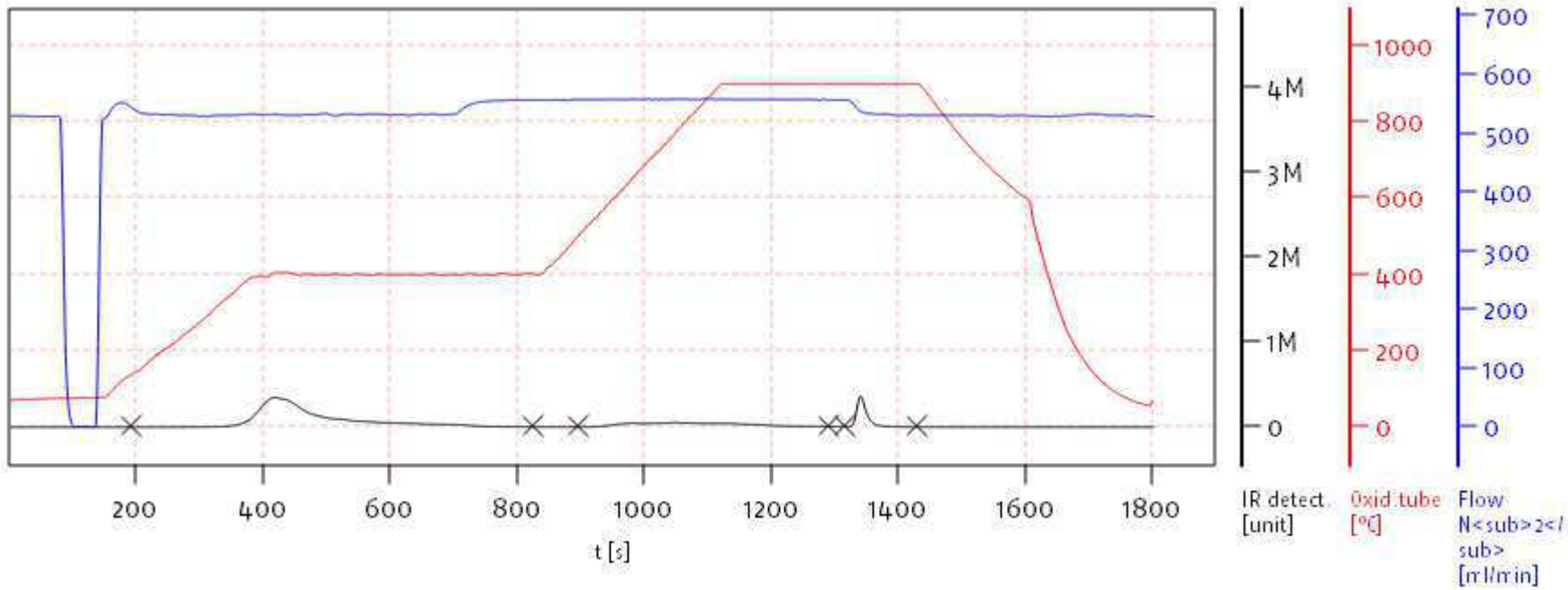
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	22L0307-51	513.50		CARBON	12/28/2022 4:58 PM	bl	0.517	1 576 030	0.639	0.068	253 460	433 029	0.448	0.123	0.9594	1.0000



Name:

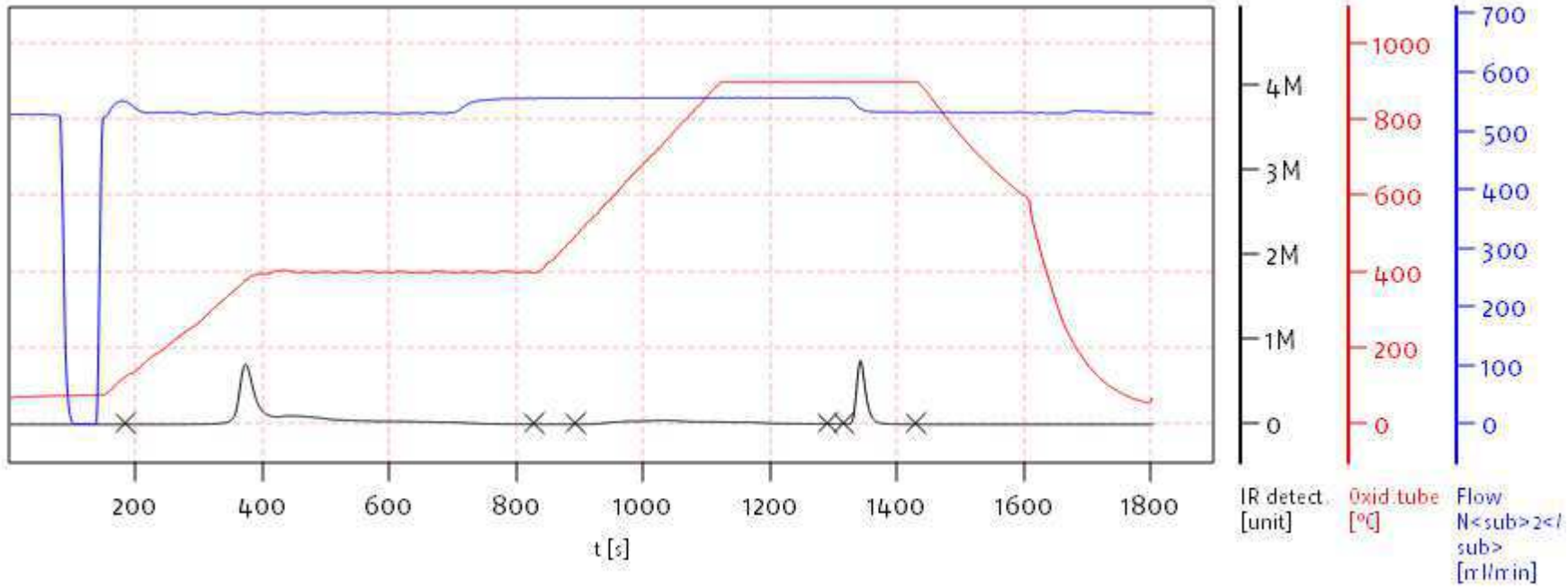
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	22L0307-52	206.60		CARBON	12/28/2022 5:28 PM	bl	1.340	1 411 575	1.583	0.344	485 920	350 334	0.996	0.243	0.9594	1.0000



Name:

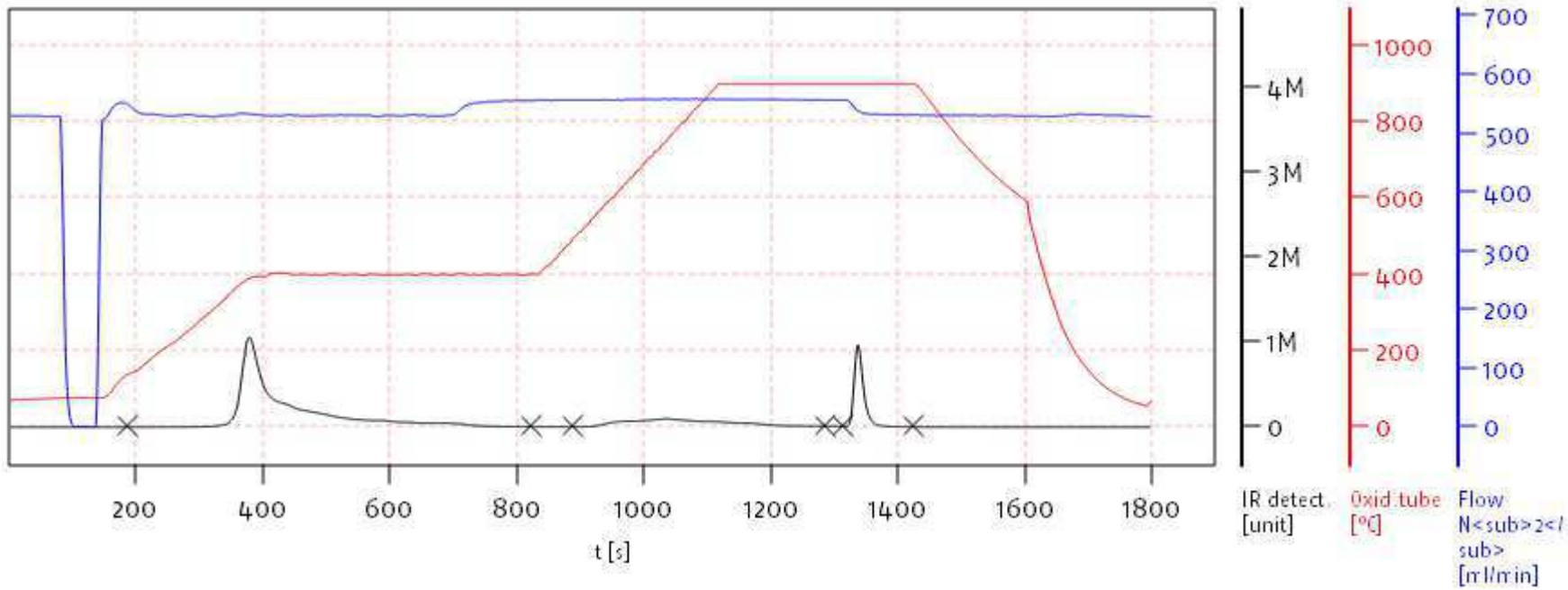
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	22L0307-53	510.80		CARBON	12/28/2022 5:59 PM	bl	0.990	2 796 609	1.195	0.184	634 878	703 238	0.805	0.205	0.9594	1.0000



Name:

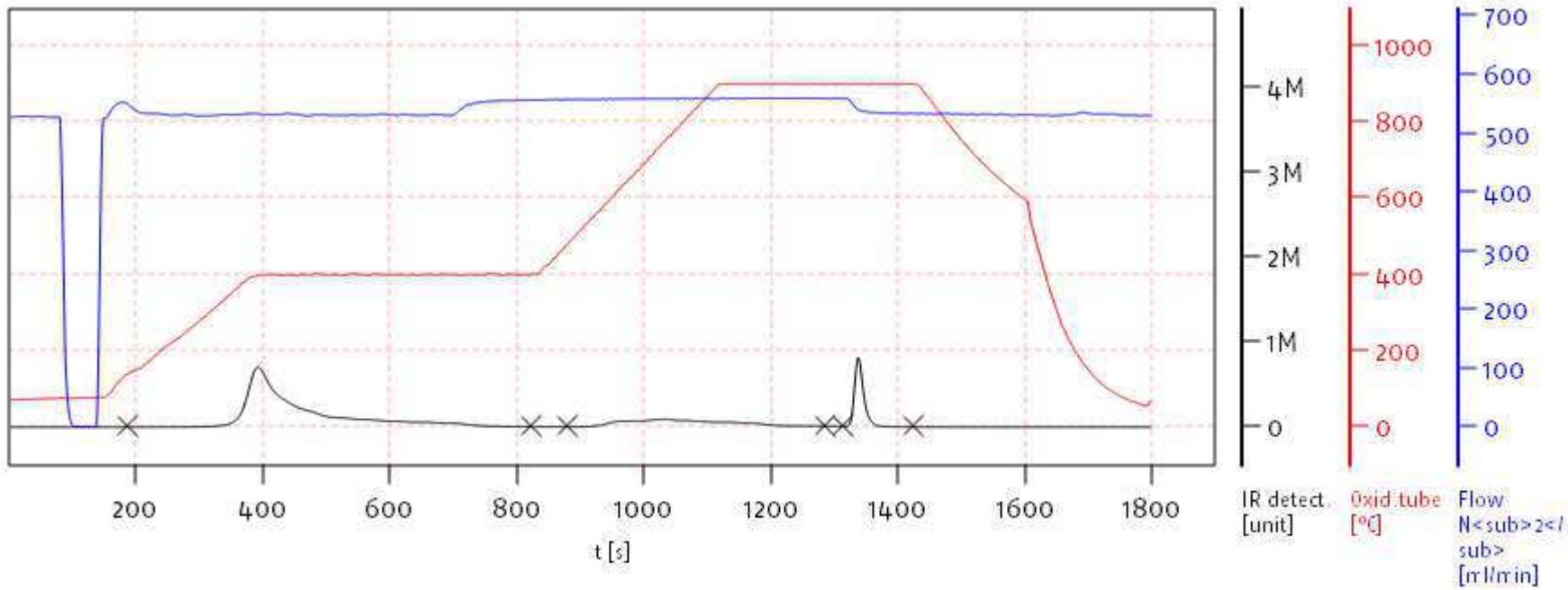
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	22L0307-54	511.80		CARBON	12/28/2022 6:29 PM	bl	0.862	2 476 874	1.065	0.151	524 802	699 052	0.711	0.203	0.9594	1.0000



Name:

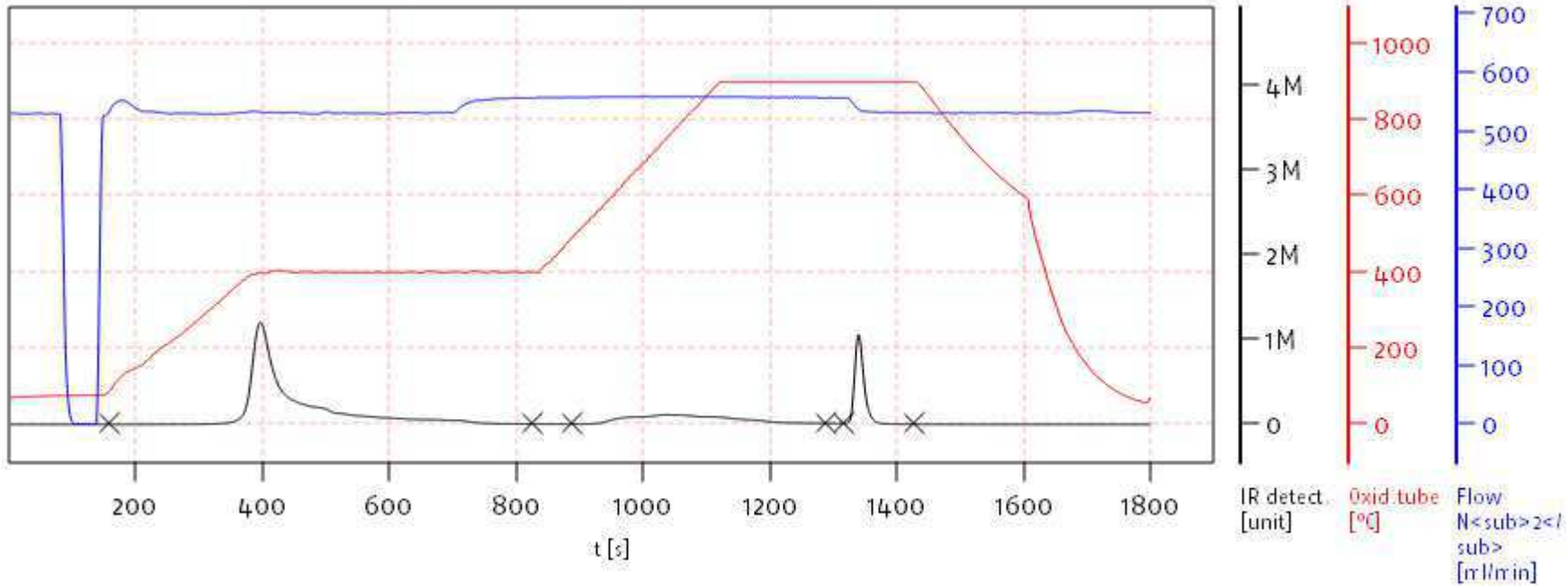
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	22L0307-55	510.30		CARBON	12/28/2022 7:00 PM	bl	1.085	3 066 894	1.342	0.200	686 890	873 634	0.885	0.257	0.9594	1.0000



Name:

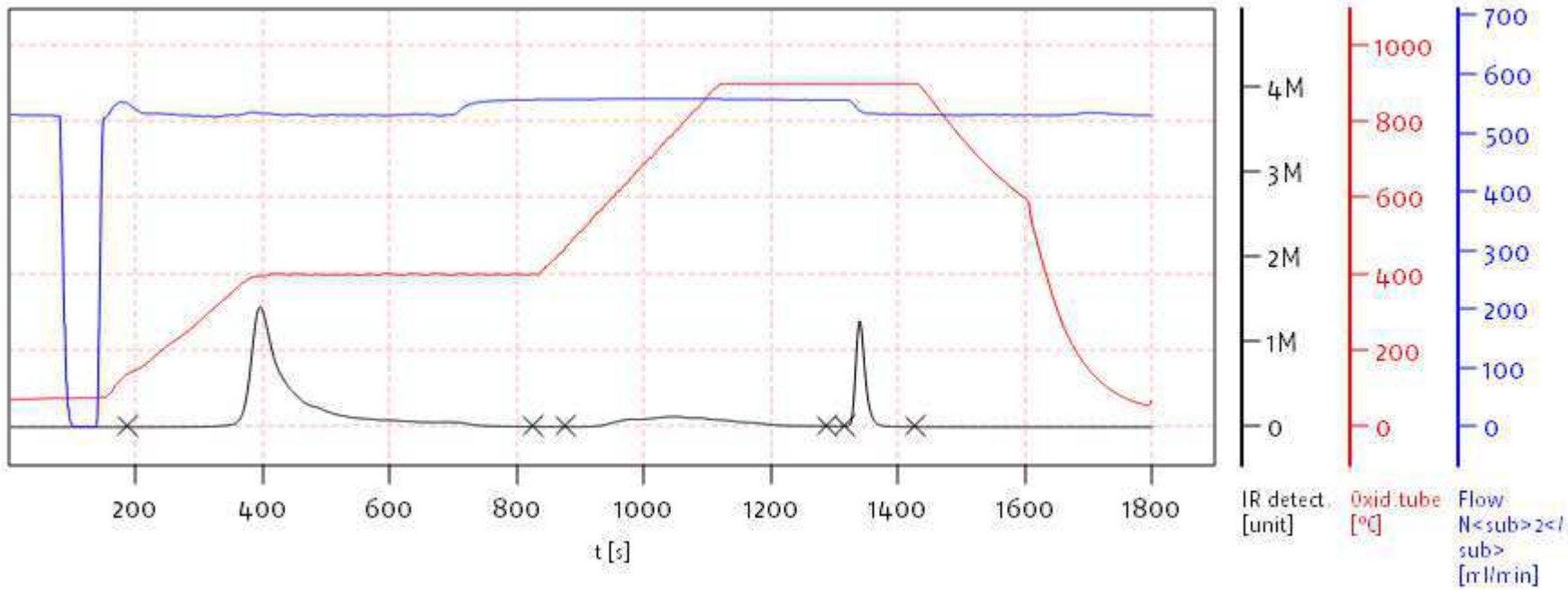
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	22L0307-56	504.50		CARBON	12/28/2022 7:30 PM	bl	1.356	3 794 415	1.620	0.246	829 669	888 171	1.109	0.264	0.9594	1.0000



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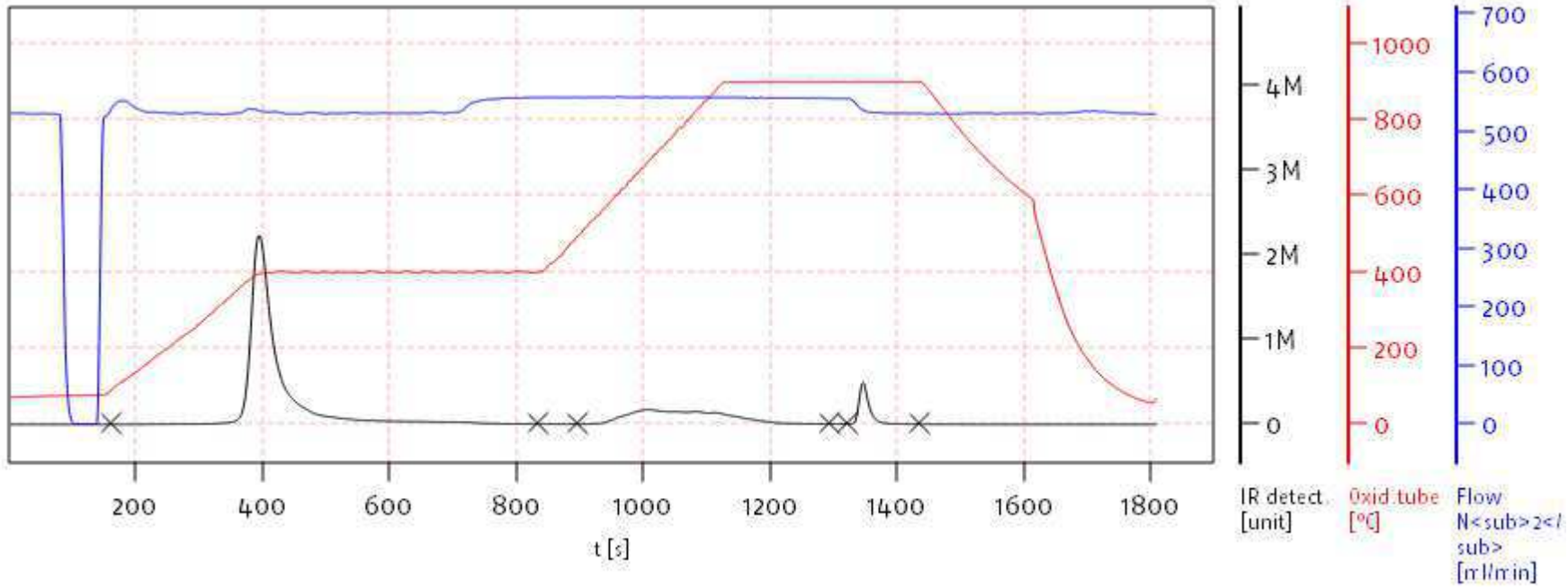
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	22L0307-57	502.40		CARBON	12/28/2022 8:01 PM	bl	1.268	3 984 731	1.625	0.098	343 337	1 185 420	1.170	0.357	0.9594	1.0000



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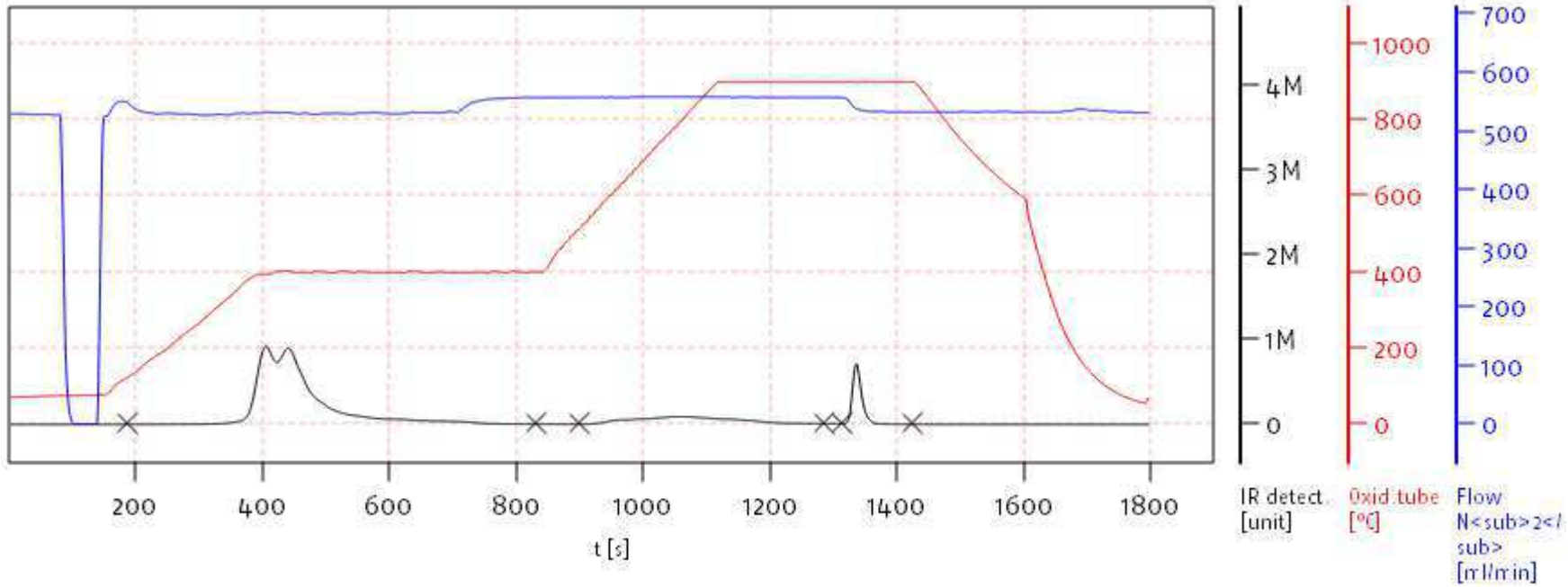
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	22L0307-58	505.00		CARBON	12/28/2022 8:31 PM	bl	1.154	3 494 981	1.354	0.134	464 042	678 247	1.020	0.200	0.9594	1.0000



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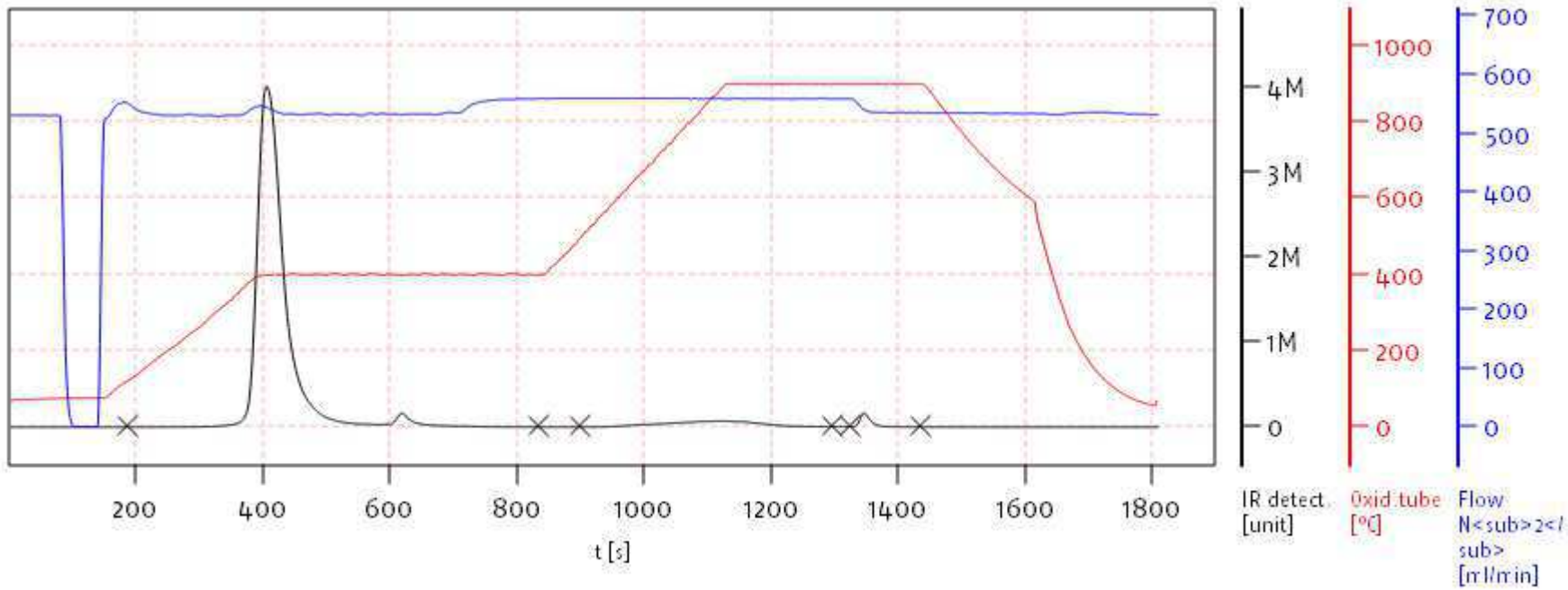
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	22L0307-59	533.40		CARBON	12/28/2022 9:01 PM	bl	2.103	7 477 145	2.234	0.028	123 903	477 355	2.075	0.131	0.9594	1.0000



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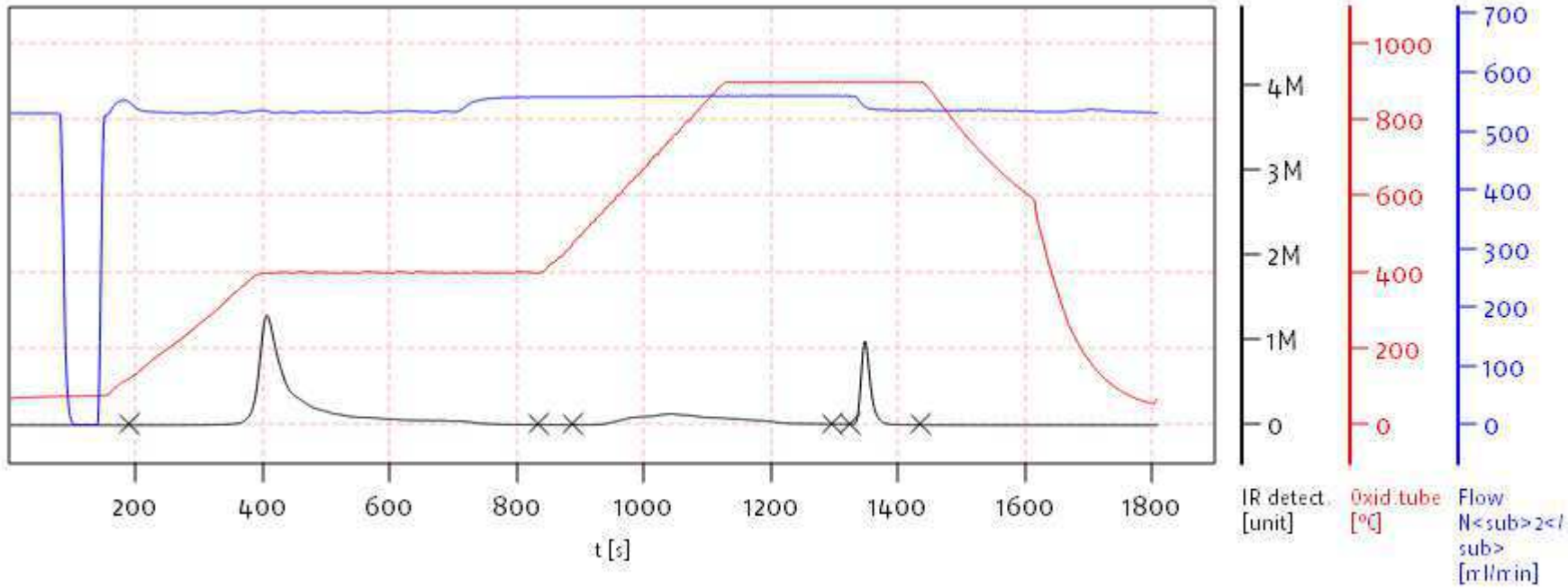
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	22L0307-60	515.50		CARBON	12/28/2022 9:32 PM	bl	1.062	3 058 738	1.332	0.188	653 728	924 826	0.874	0.270	0.9594	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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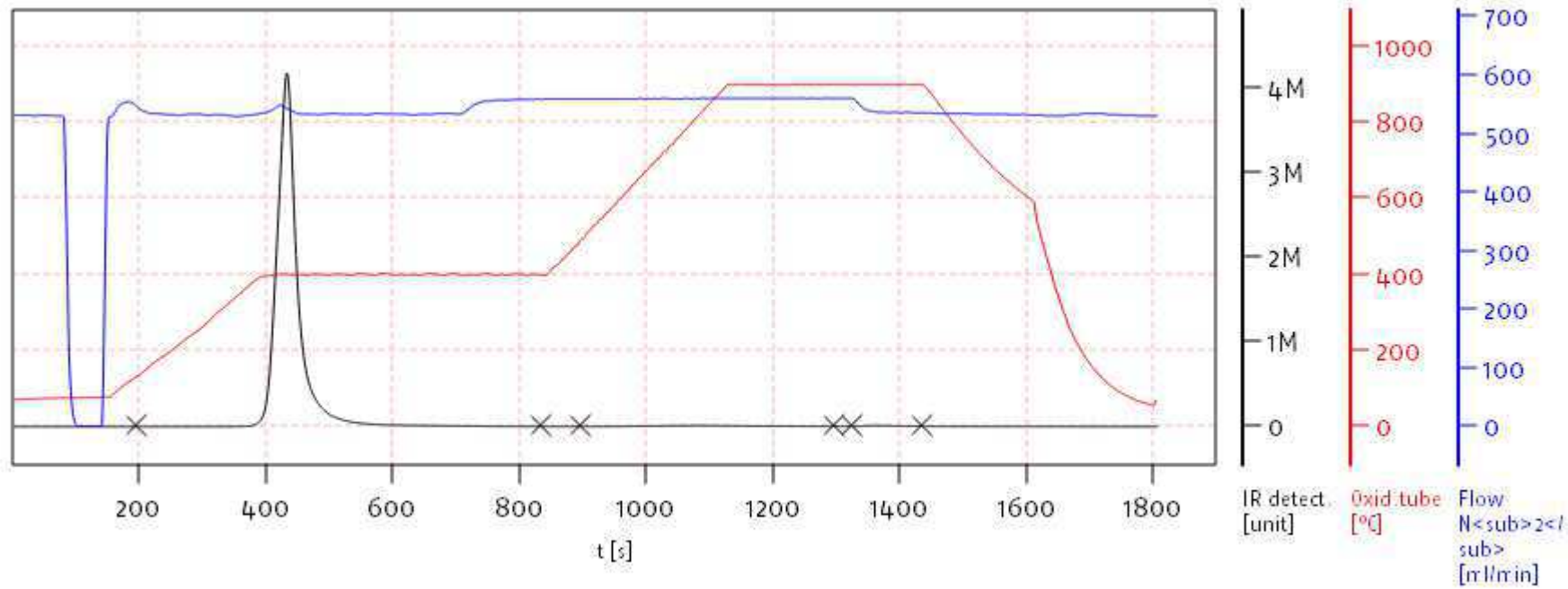
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SKL0336-CCV1	19.70		CARBON	12/28/2022 10:02 PM	bl	44.126	5 874 829	44.681	0.035	30 950	97 177	44.092	0.555	0.9594	1.0000



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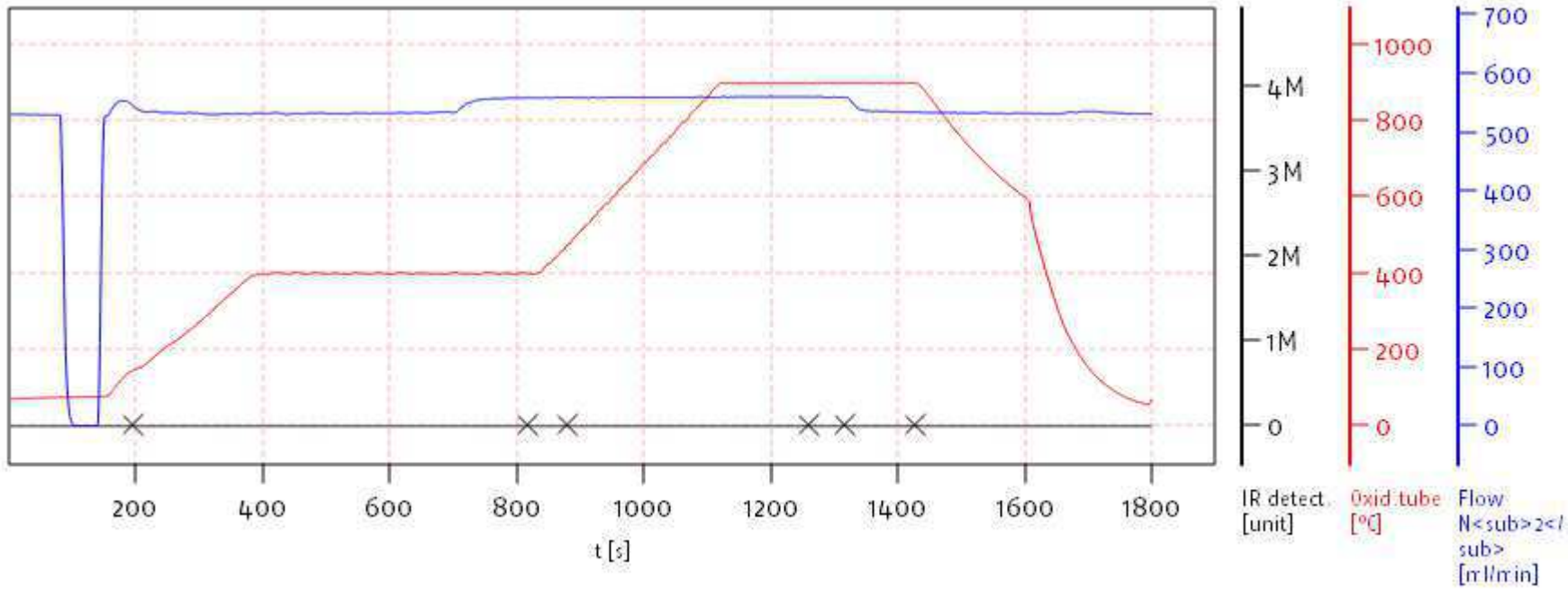
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SKL0336-CCB1	512.00		CARBON	12/28/2022 10:33 PM	bl,C3u,C2u	0.000	4 468	0.000	0.000	710	713	0.000	0.000	0.9594	1.0000



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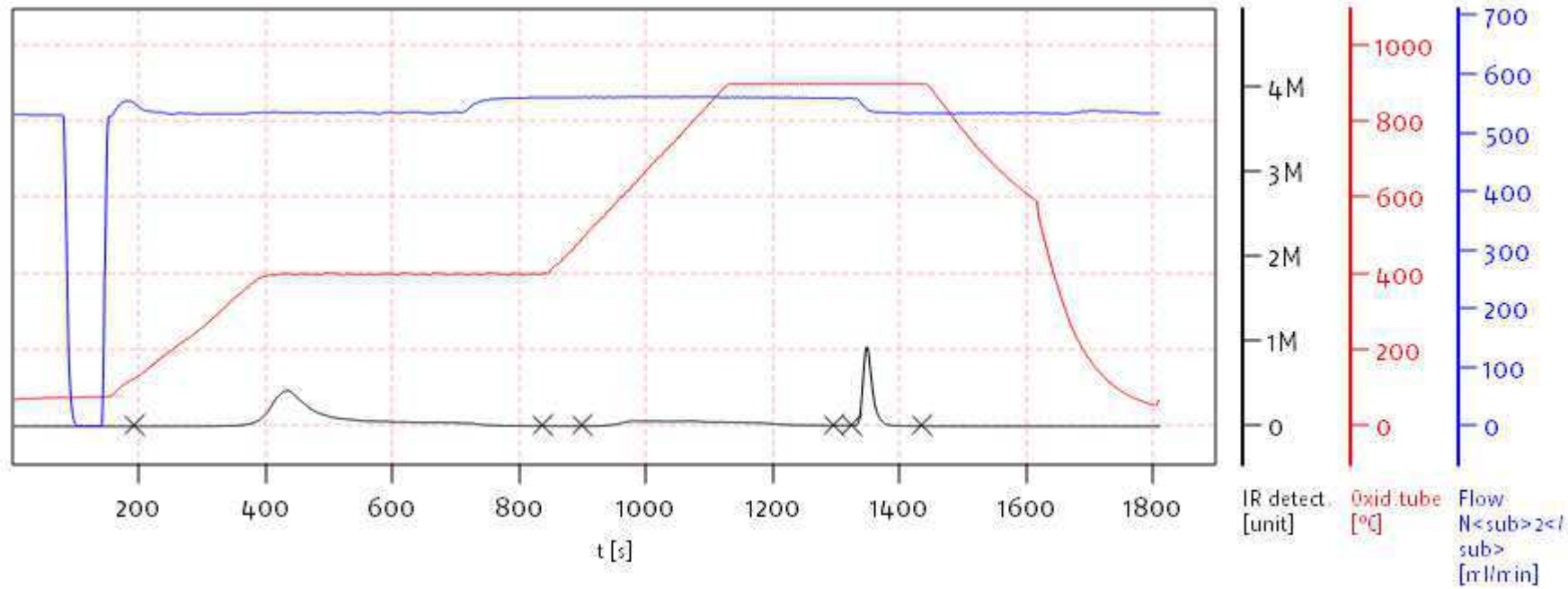
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	22L0307-61	531.80		CARBON	12/28/2022 11:03 PM	bl	0.626	1 642 239	0.780	0.174	625 649	555 991	0.451	0.154	0.9594	1.0000



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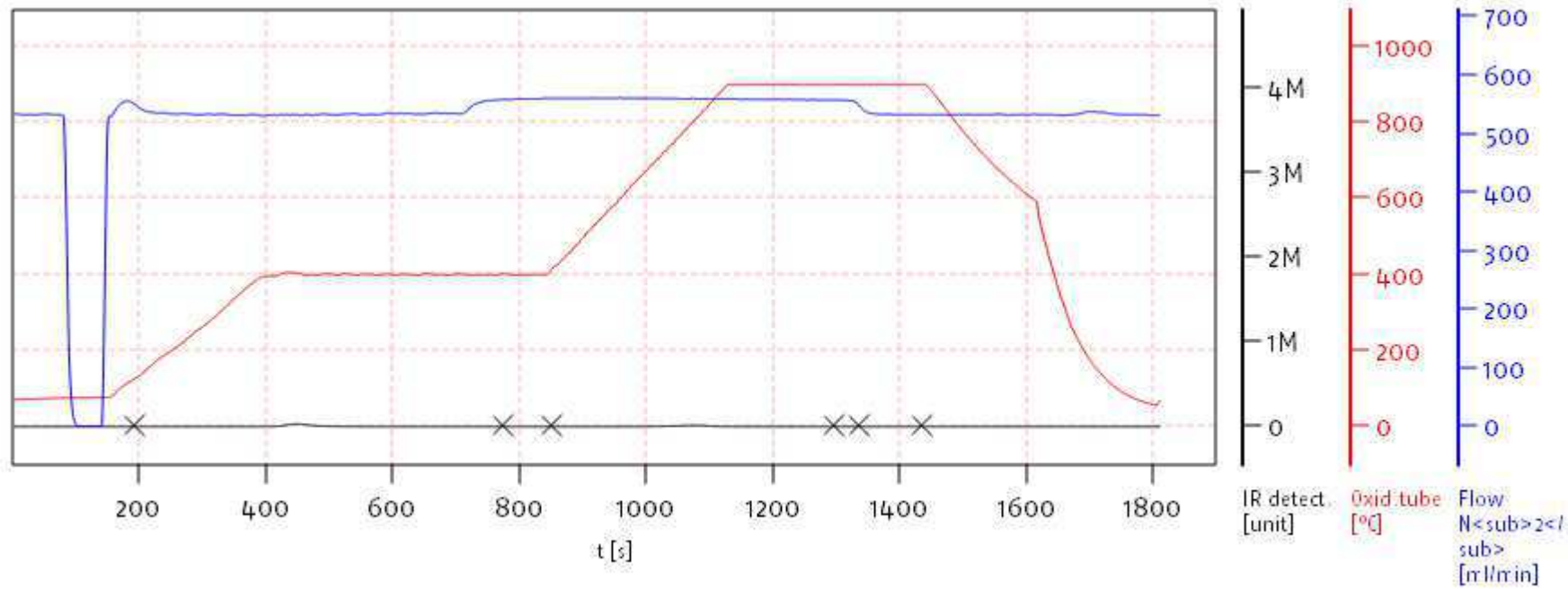
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	BKL0587-MRL1	510.20		CARBON	12/28/2022 11:34 PM	bl,C2u	0.010	60 063	0.013	0.000	430	35 567	0.010	0.003	0.9594	1.0000



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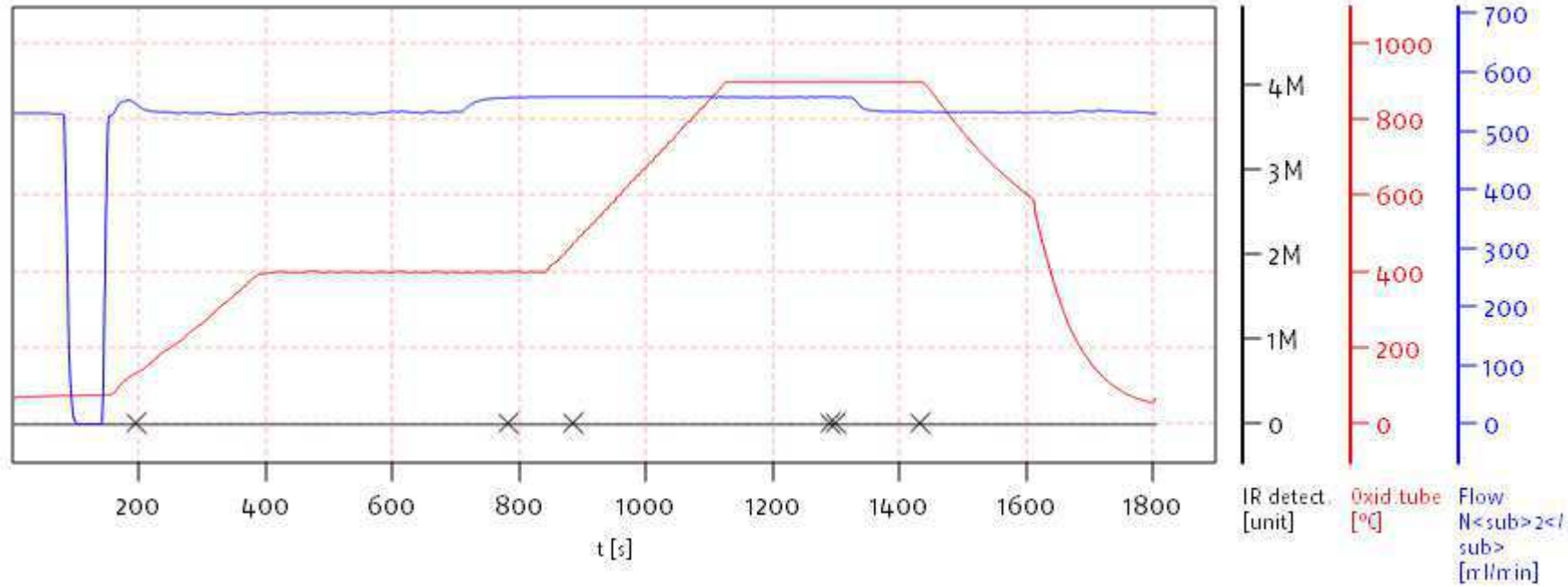
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	BKL0587-BLK1	512.80		CARBON	12/29/2022 12:04 AM	bl,C3u,C2u	0.000	5 080	0.000	0.000	641	2 237	0.000	0.000	0.9594	1.0000



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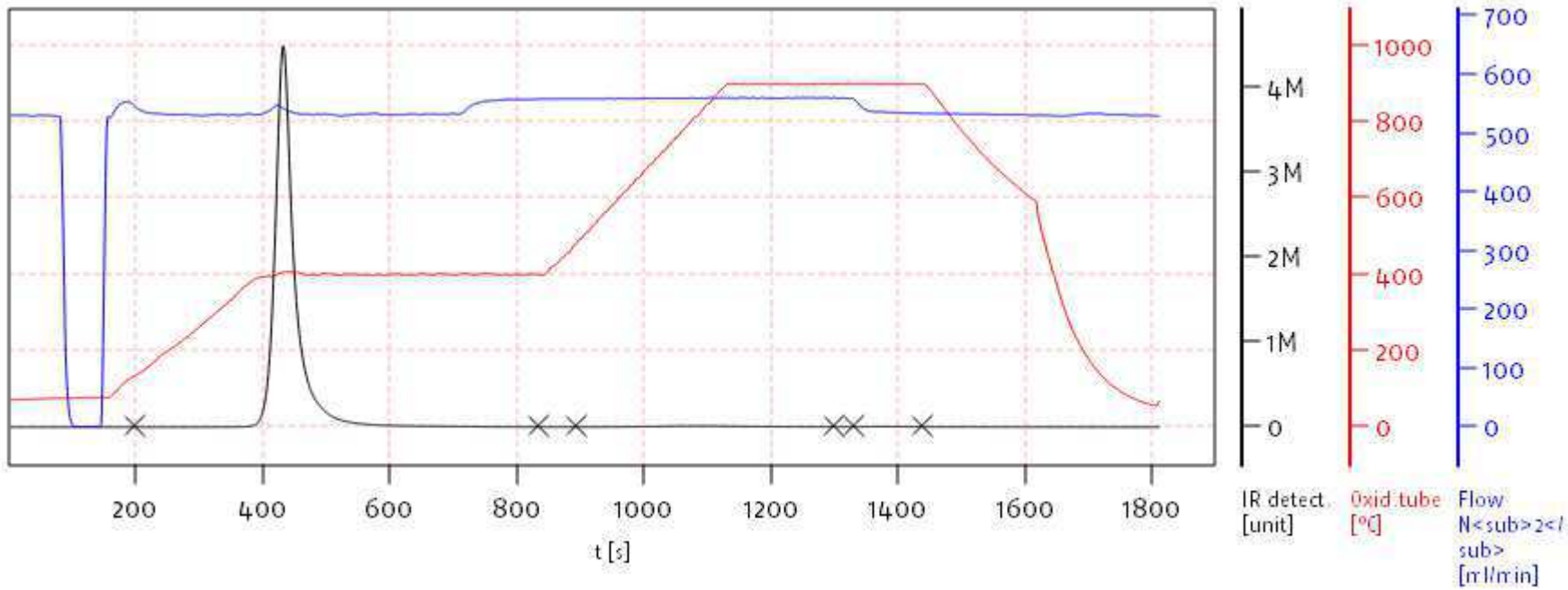
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	BKL0587-BS1	19.90		CARBON	12/29/2022 12:35 AM	bl	44.656	6 009 876	45.212	0.000	20 894	98 026	44.656	0.556	0.9594	1.0000



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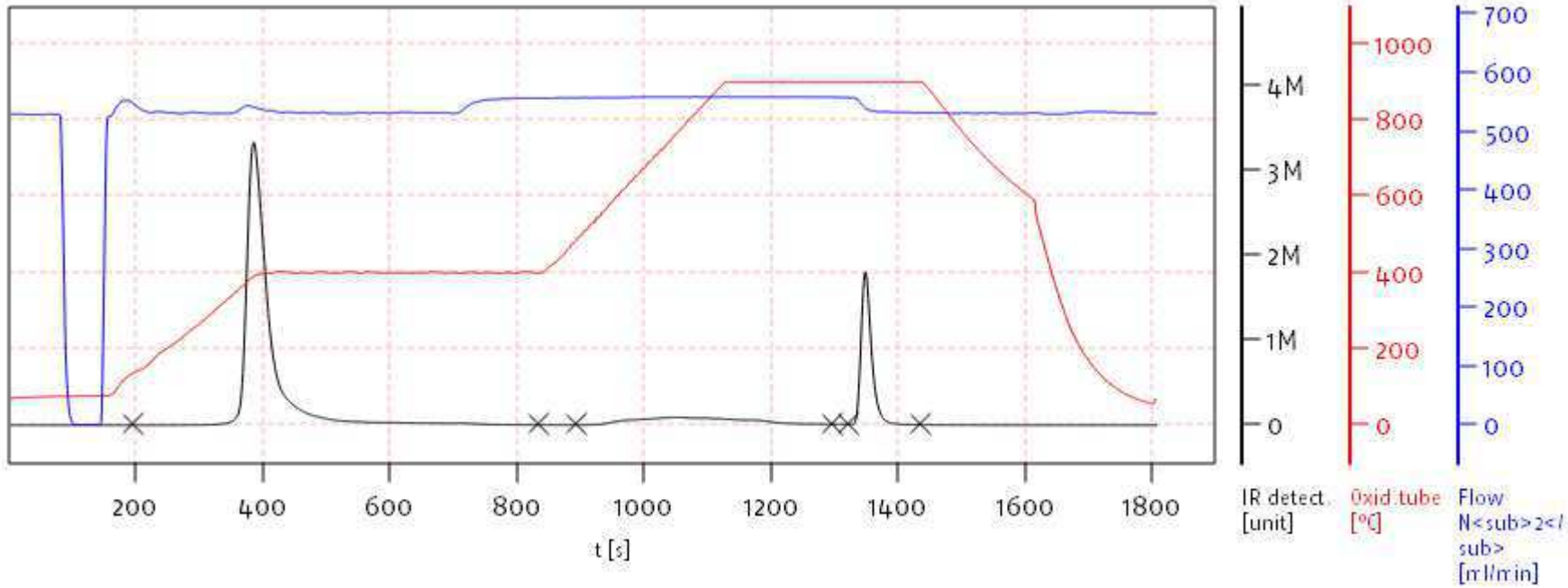
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	BKL0587-SRM1	312.00		CARBON	12/29/2022 1:06 AM	bl	3.016	5 024 035	3.374	0.637	1 309 591	748 752	2.379	0.358	0.9594	1.0000



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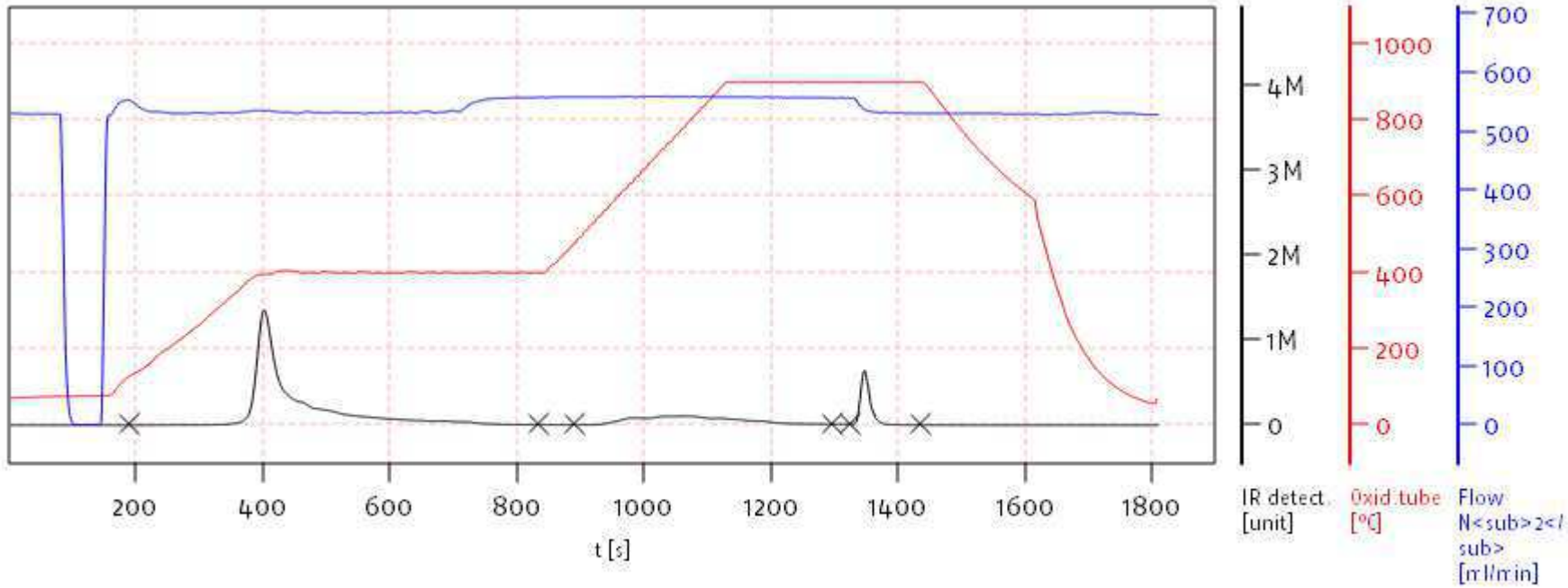
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	22L0307-62	539.60		CARBON	12/29/2022 1:36 AM	bl	0.945	3 045 637	1.173	0.114	424 214	821 013	0.831	0.228	0.9594	1.0000



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Balance: BAL3
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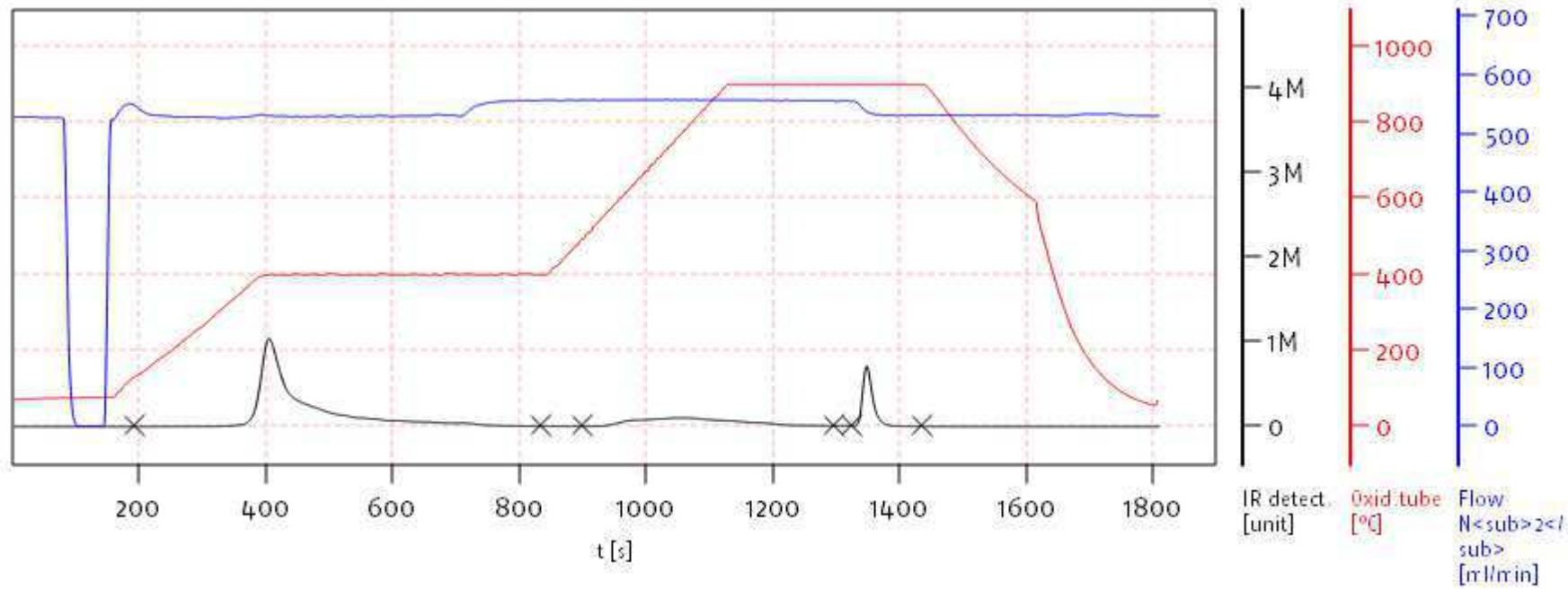
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	BKL0587-DUP1	504.10		CARBON	12/29/2022 2:07 AM	bl	0.955	2 765 977	1.185	0.148	508 583	774 381	0.807	0.230	0.9594	1.0000



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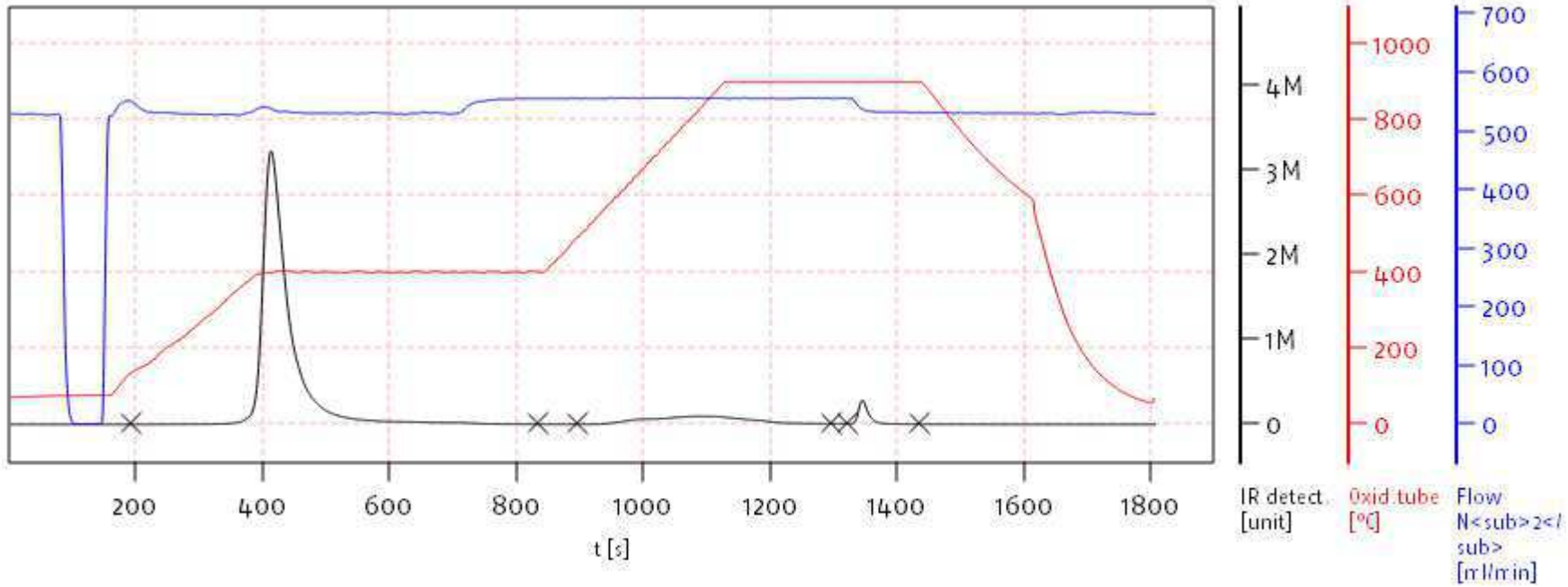
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	BKL0587-MS1	523.60	0.0083	CARBON	12/29/2022 2:37 AM	bl	1.680	5 761 308	1.879	0.053	206 236	698 891	1.627	0.199	0.9594	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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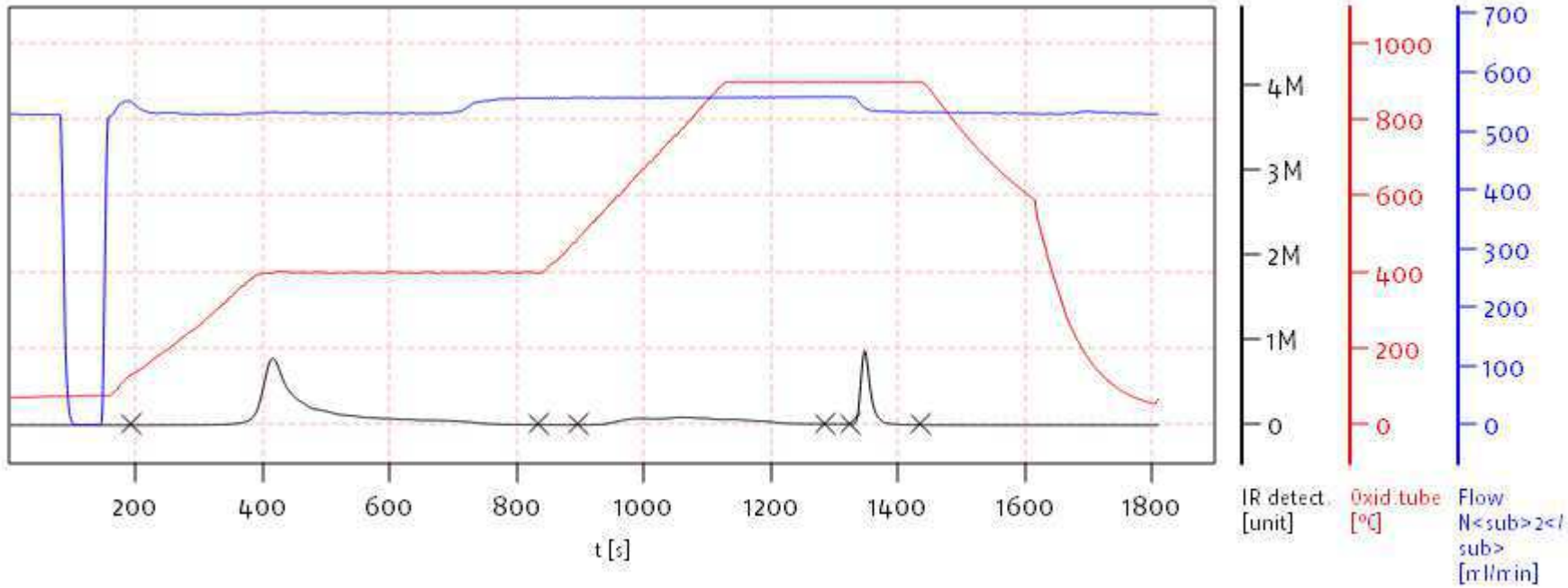
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	22L0307-63	514.30		CARBON	12/29/2022 3:08 AM	bl	0.861	2 410 205	1.074	0.173	600 570	733 979	0.688	0.213	0.9594	1.0000



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Balance: BAL3
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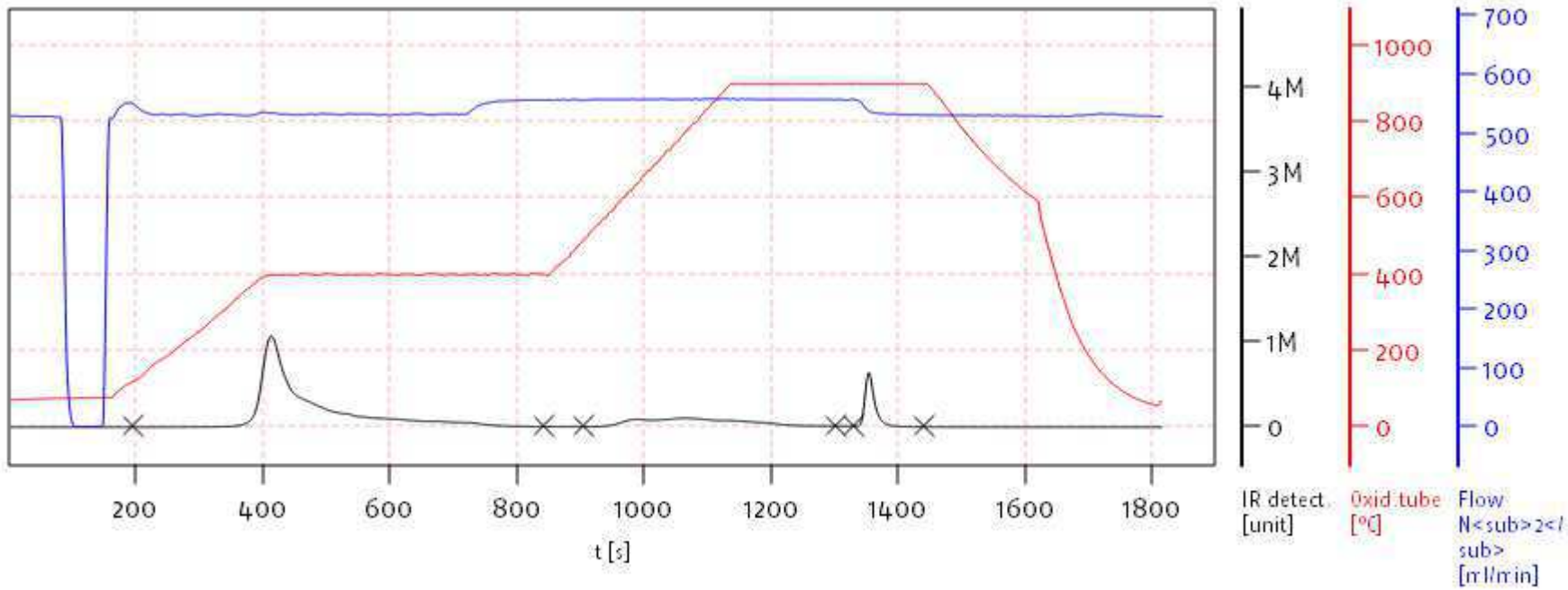
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	22L0307-64	556.30		CARBON	12/29/2022 3:38 AM	bl	0.948	3 143 742	1.171	0.115	441 163	829 711	0.832	0.224	0.9594	1.0000



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Balance: BAL3
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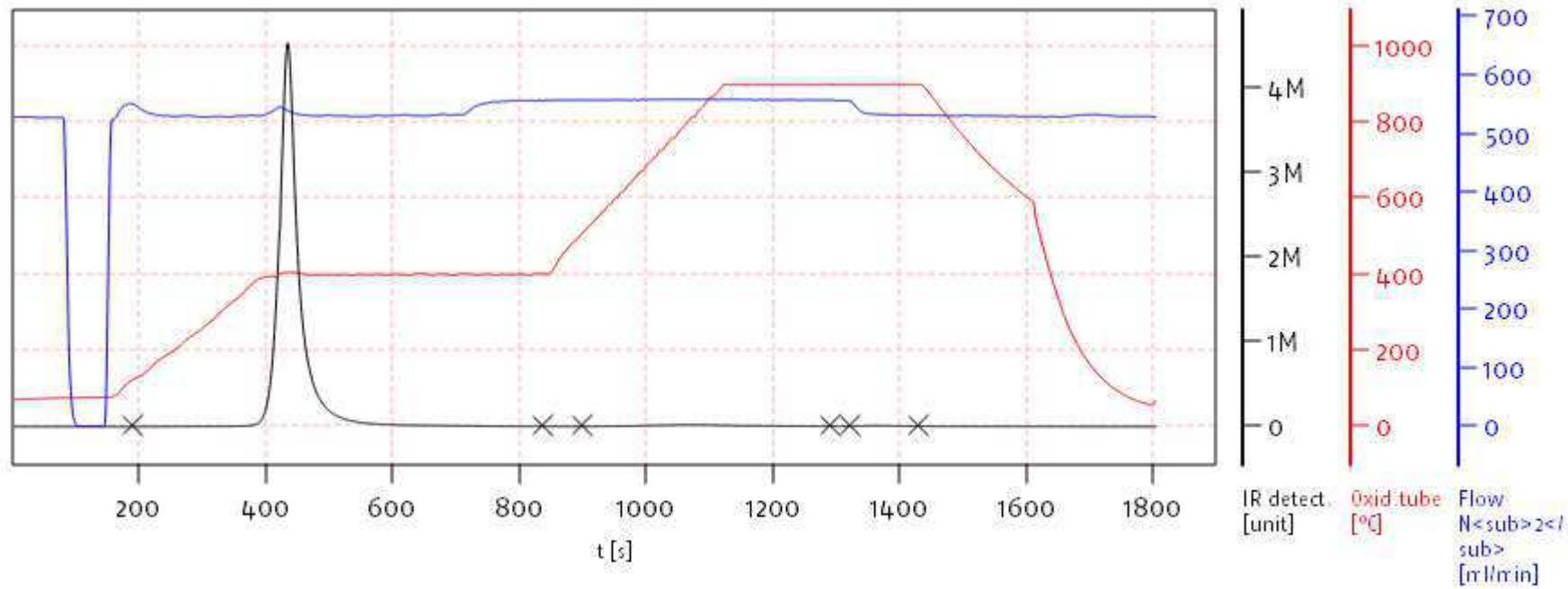
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	SKL0336-CCV2	20.90		CARBON	12/29/2022 4:09 AM	bl	44.122	6 230 850	45.047	0.032	30 812	151 468	44.090	0.925	0.9594	1.0000



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Balance: BAL3
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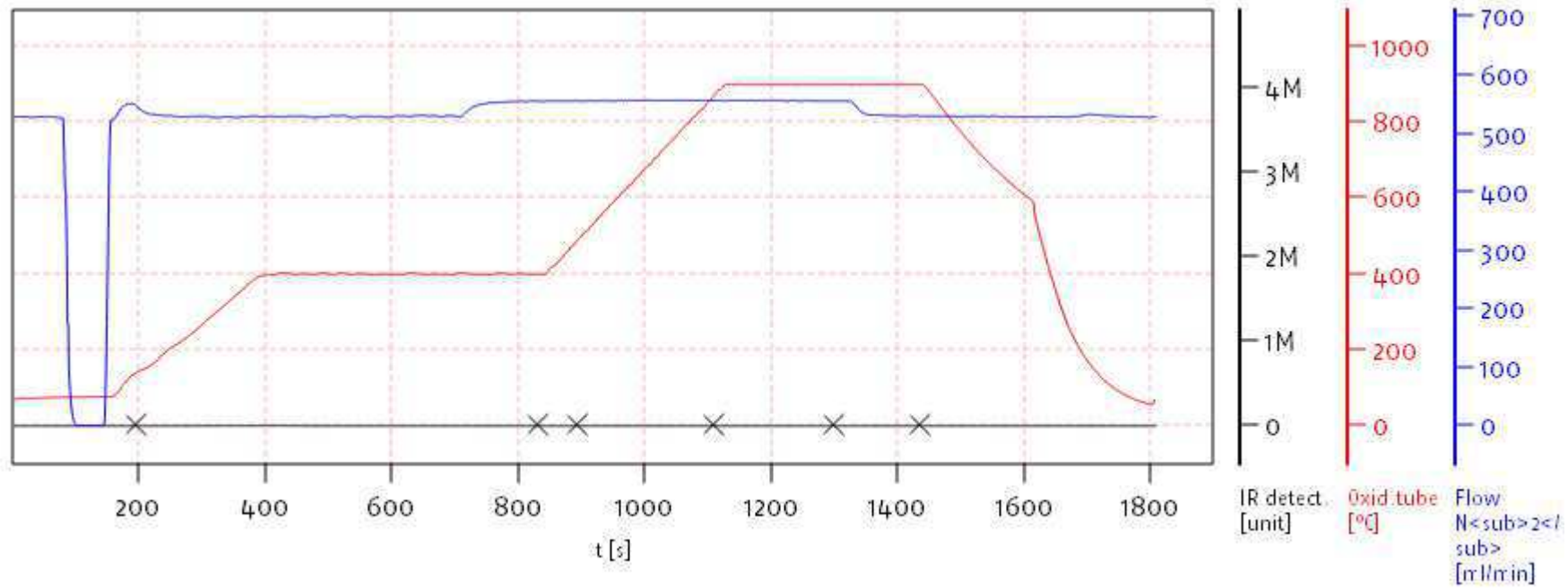
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	SKL0336-CCB2	506.50		CARBON	12/29/2022 4:39 AM	bl,C3u,C2u	0.000	12 516	0.000	0.000	620	121	0.000	0.000	0.9594	1.0000



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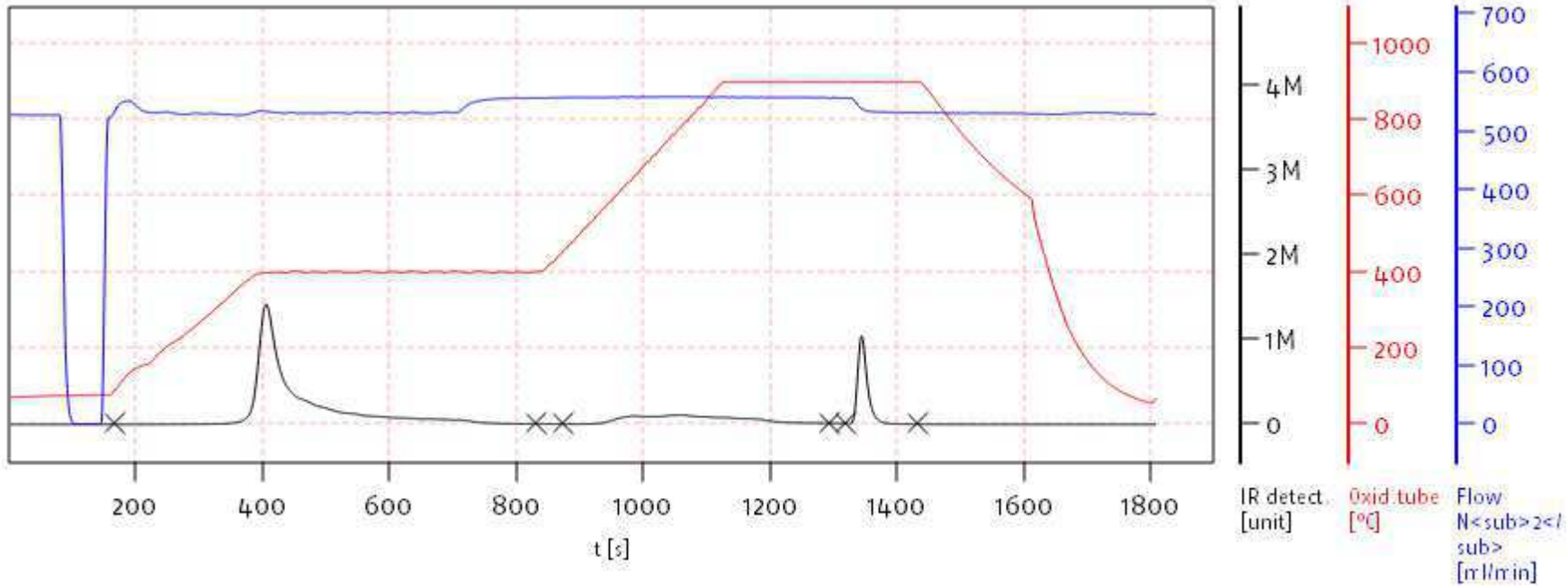
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	22L0307-65	540.60		CARBON	12/29/2022 5:10 AM	bl	1.104	3 338 181	1.355	0.194	704 009	903 607	0.910	0.251	0.9594	1.0000



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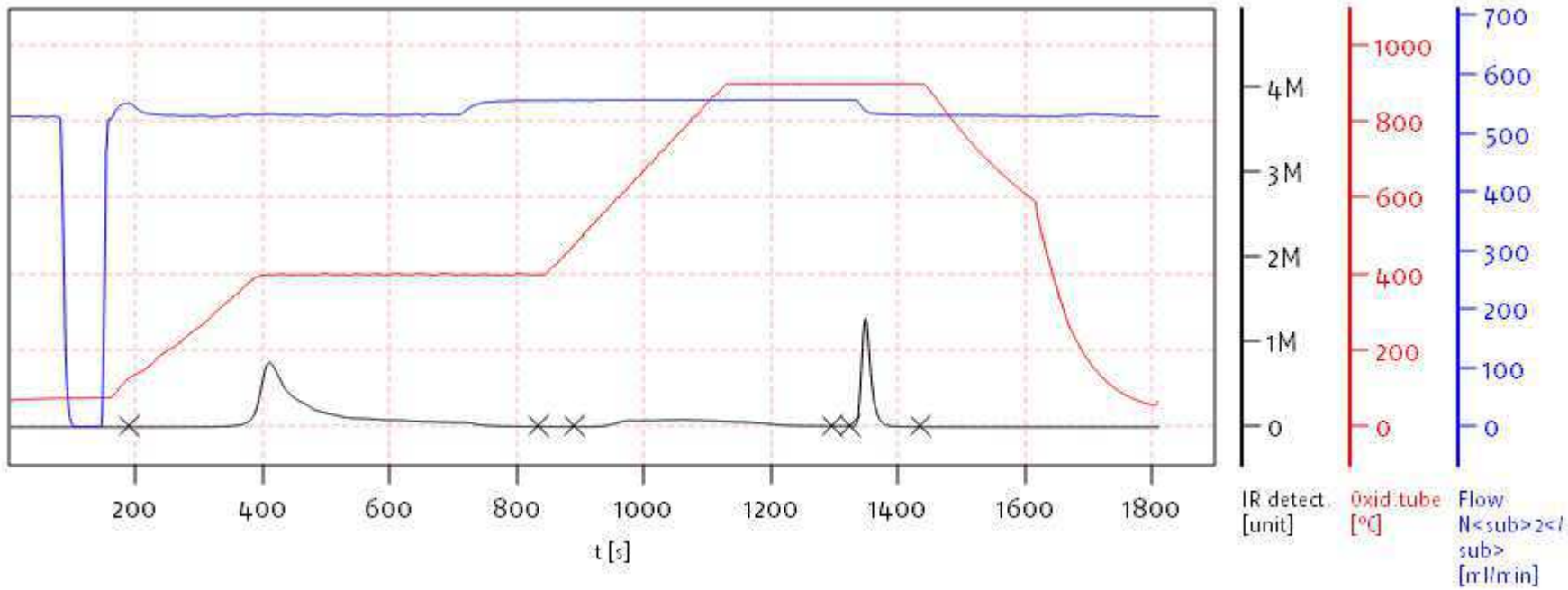
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	22L0307-66	527.40		CARBON	12/29/2022 5:40 AM	bl	0.944	2 530 940	1.153	0.239	840 943	736 911	0.705	0.209	0.9594	1.0000



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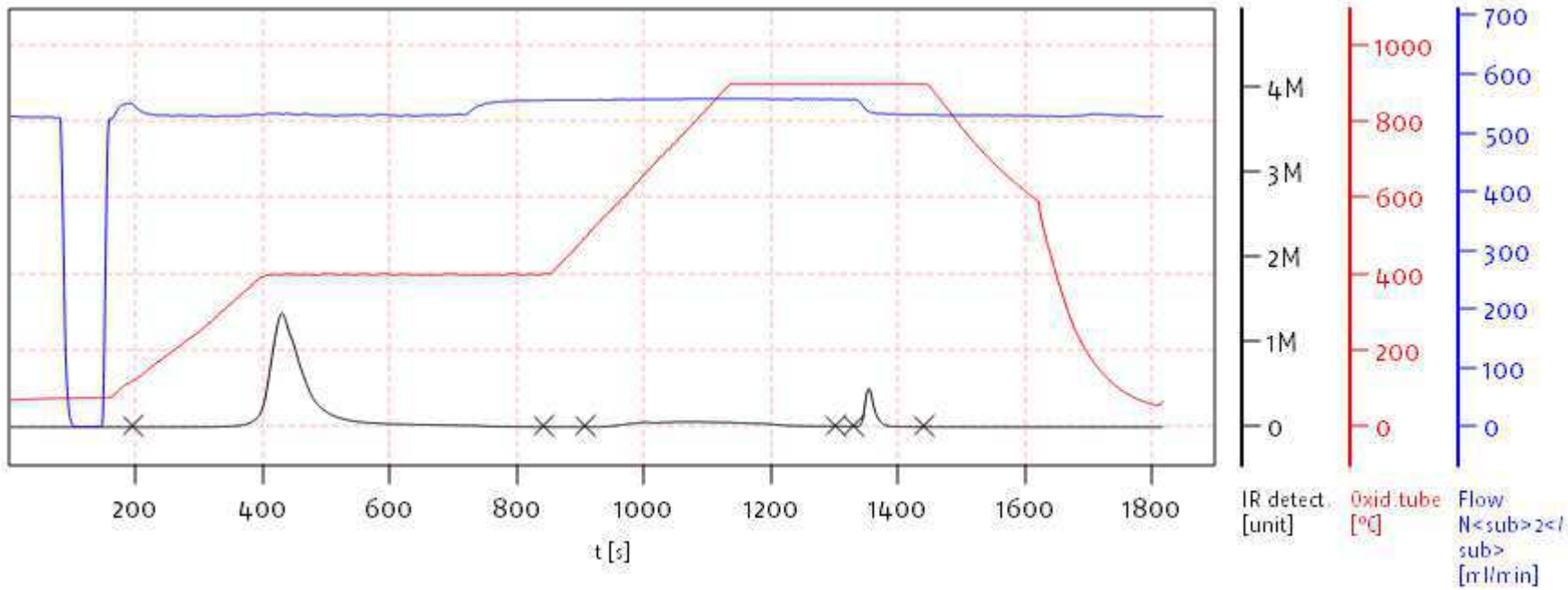
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	22L0473-01	503.10		CARBON	12/29/2022 6:11 AM	bl	1.033	3 234 454	1.188	0.086	305 690	531 582	0.947	0.155	0.9594	1.0000



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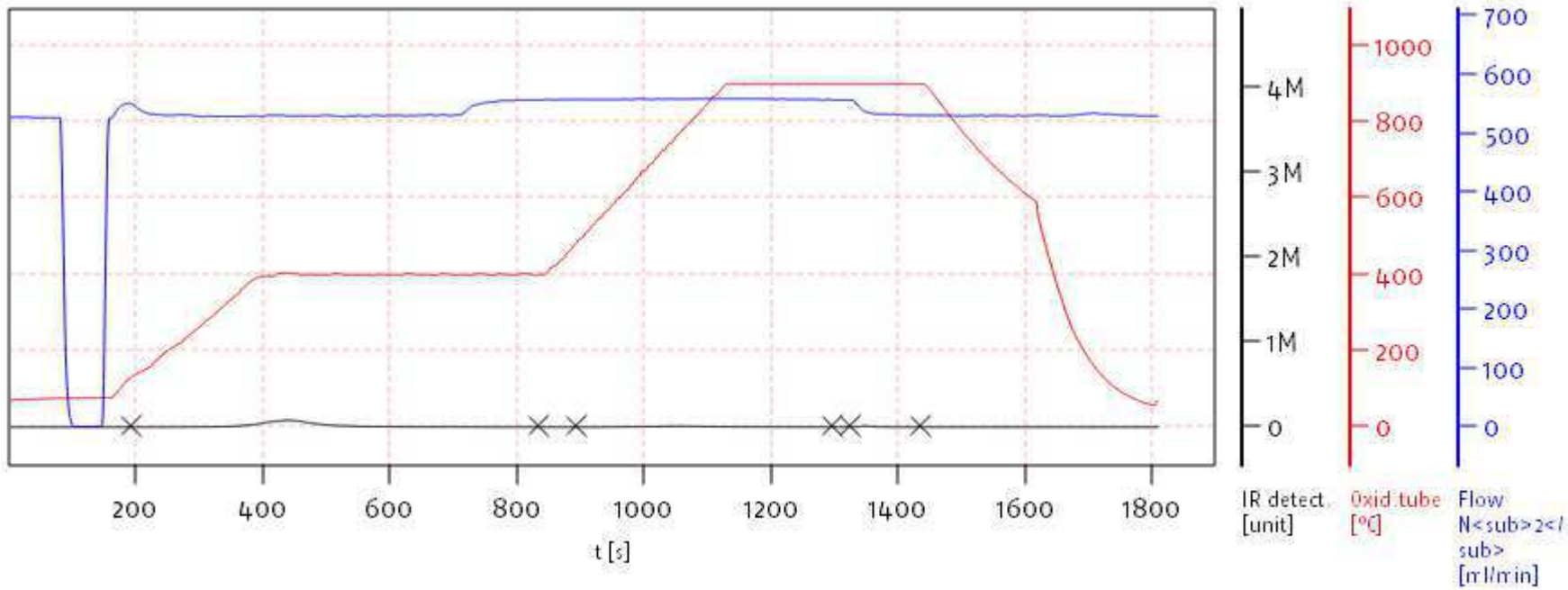
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	22L0473-02	602.50		CARBON	12/29/2022 6:42 AM	bl	0.077	336 916	0.084	0.000	11 911	56 956	0.077	0.008	0.9594	1.0000



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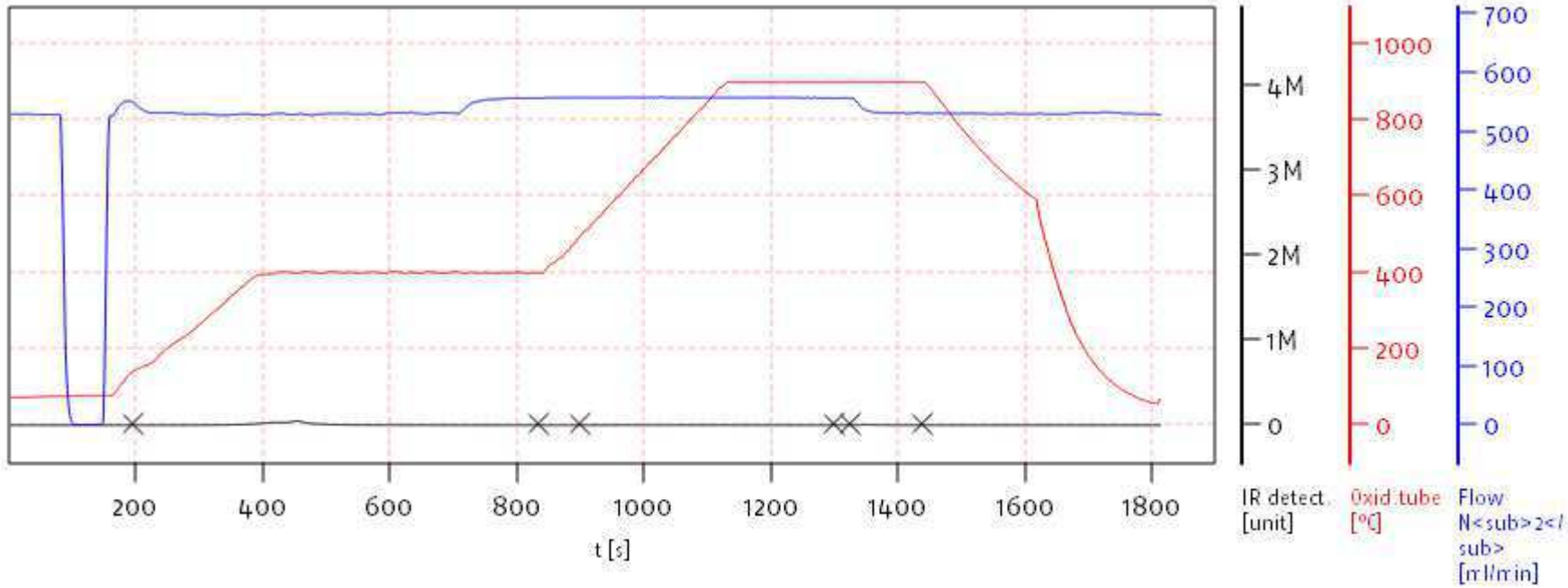
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	22L0473-03	518.70		CARBON	12/29/2022 7:12 AM	bl	0.036	150 749	0.036	0.000	6 582	10 982	0.036	0.000	0.9594	1.0000



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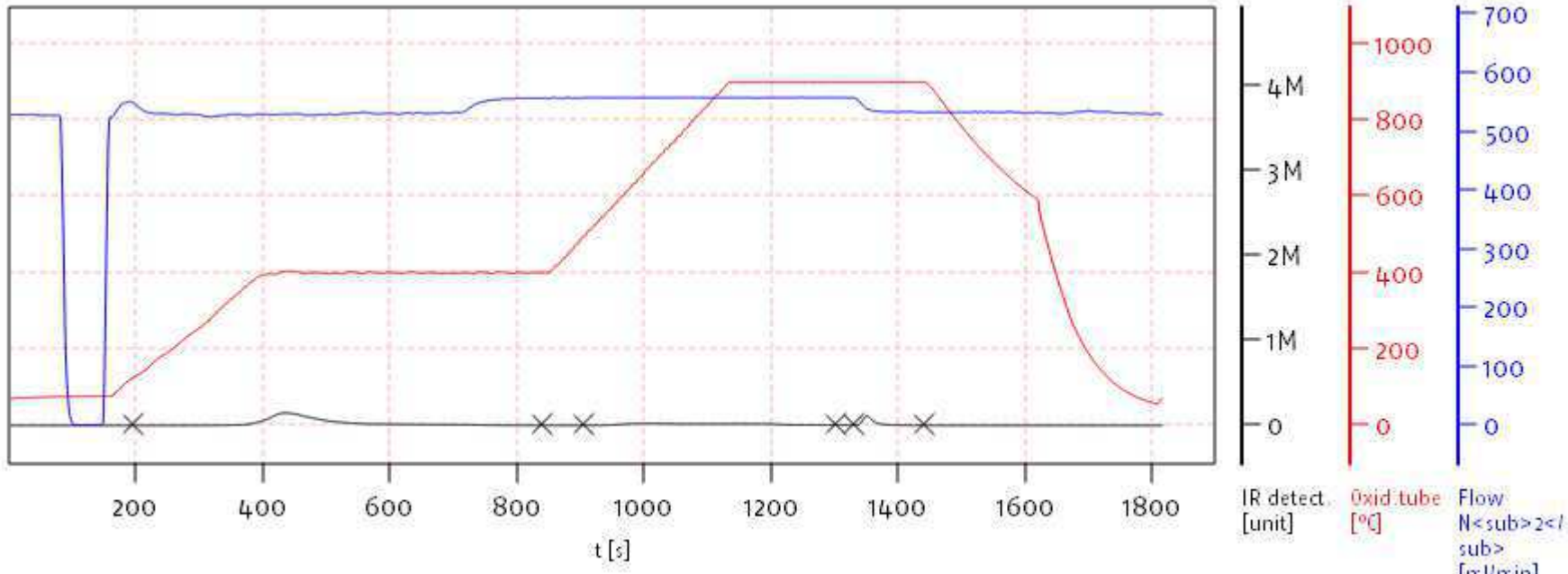
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	22L0473-04	510.20		CARBON	12/29/2022 7:43 AM	bl	0.188	608 799	0.243	0.019	88 153	205 537	0.170	0.054	0.9594	1.0000



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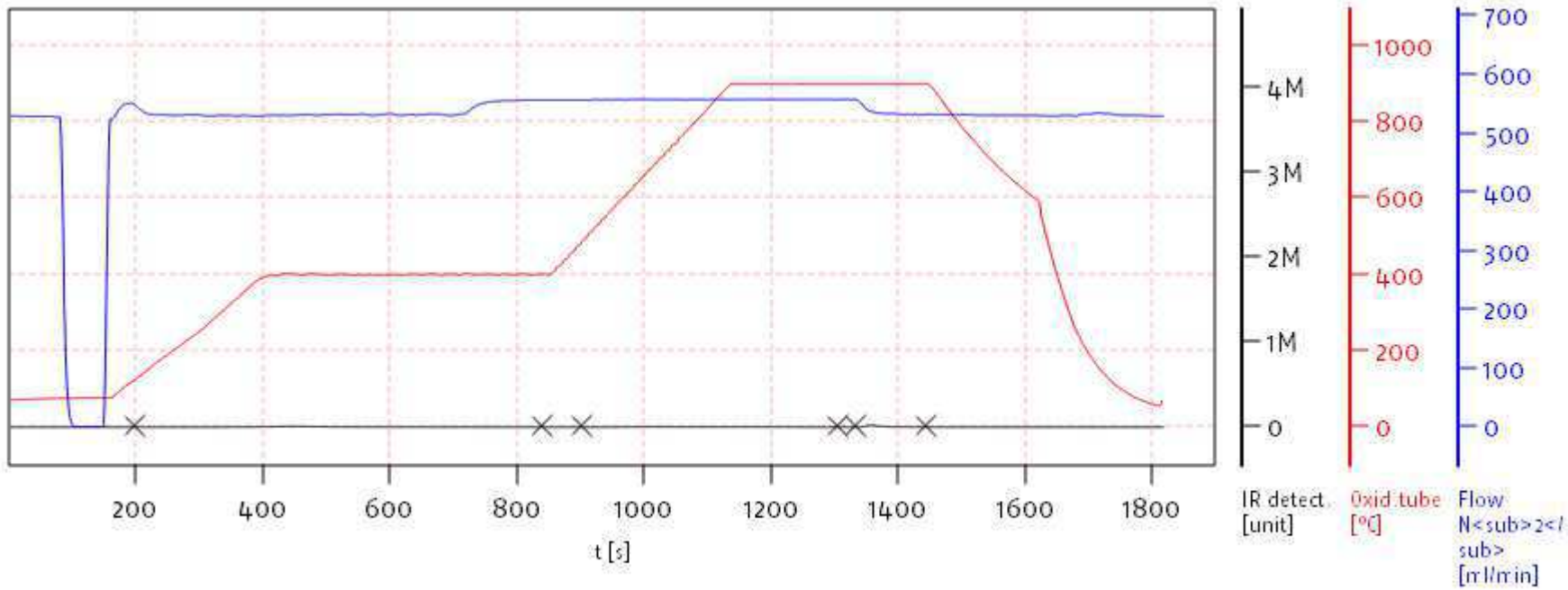
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
36	36	22L0473-05	580.50		CARBON	12/29/2022 8:14 AM	bl	0.005	45 087	0.006	0.000	22 282	29 927	0.005	0.001	0.9594	1.0000



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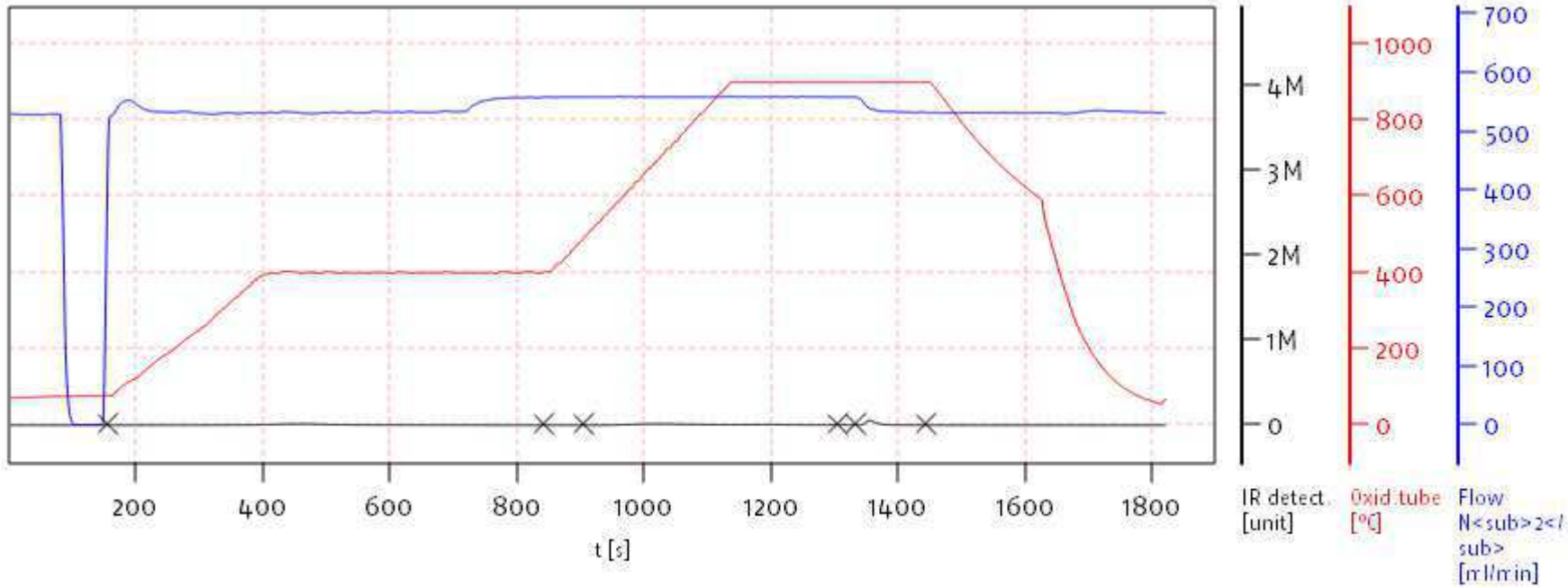
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
37	37	22L0473-06	510.20		CARBON	12/29/2022 8:44 AM	bl	0.021	81 154	0.043	0.006	44 751	97 425	0.016	0.022	0.9594	1.0000



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Date: Tue Jan 3 07:07:46 2023

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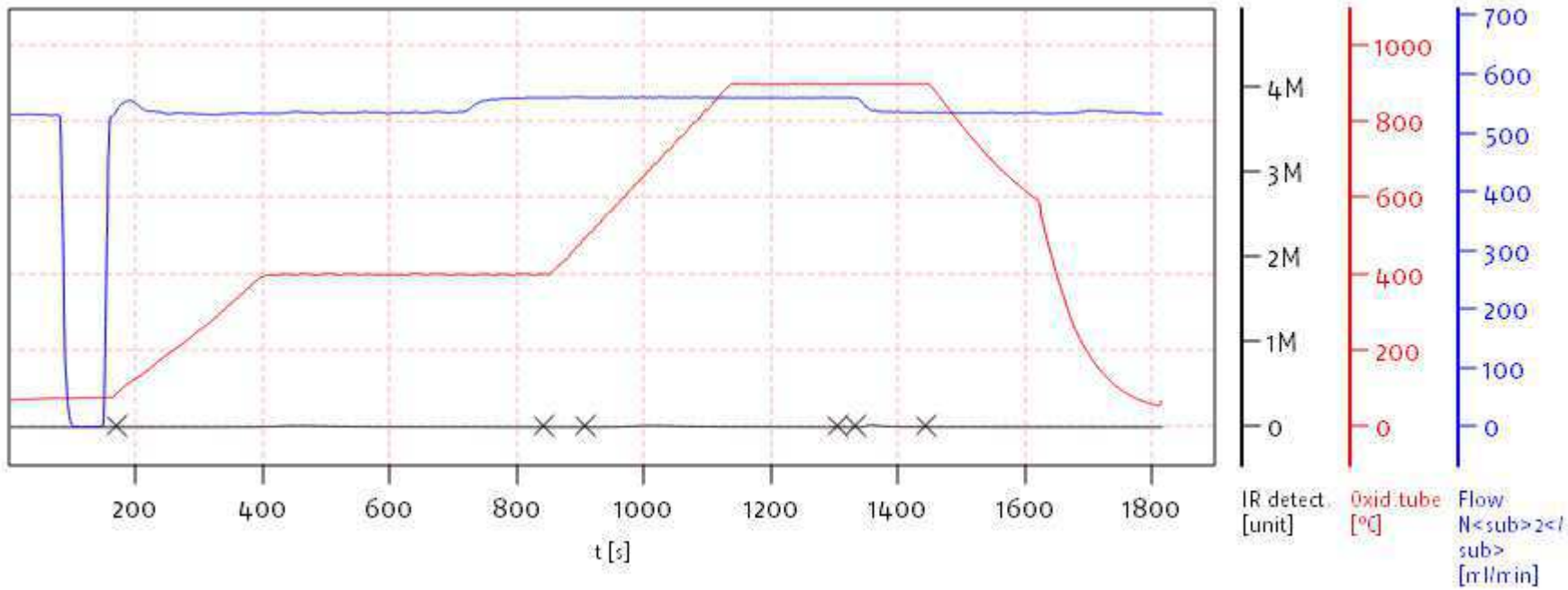
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
38	38	22L0473-07	539.20		CARBON	12/29/2022 9:15 AM	bl	0.015	79 645	0.027	0.000	27 321	70 453	0.015	0.013	0.9594	1.0000



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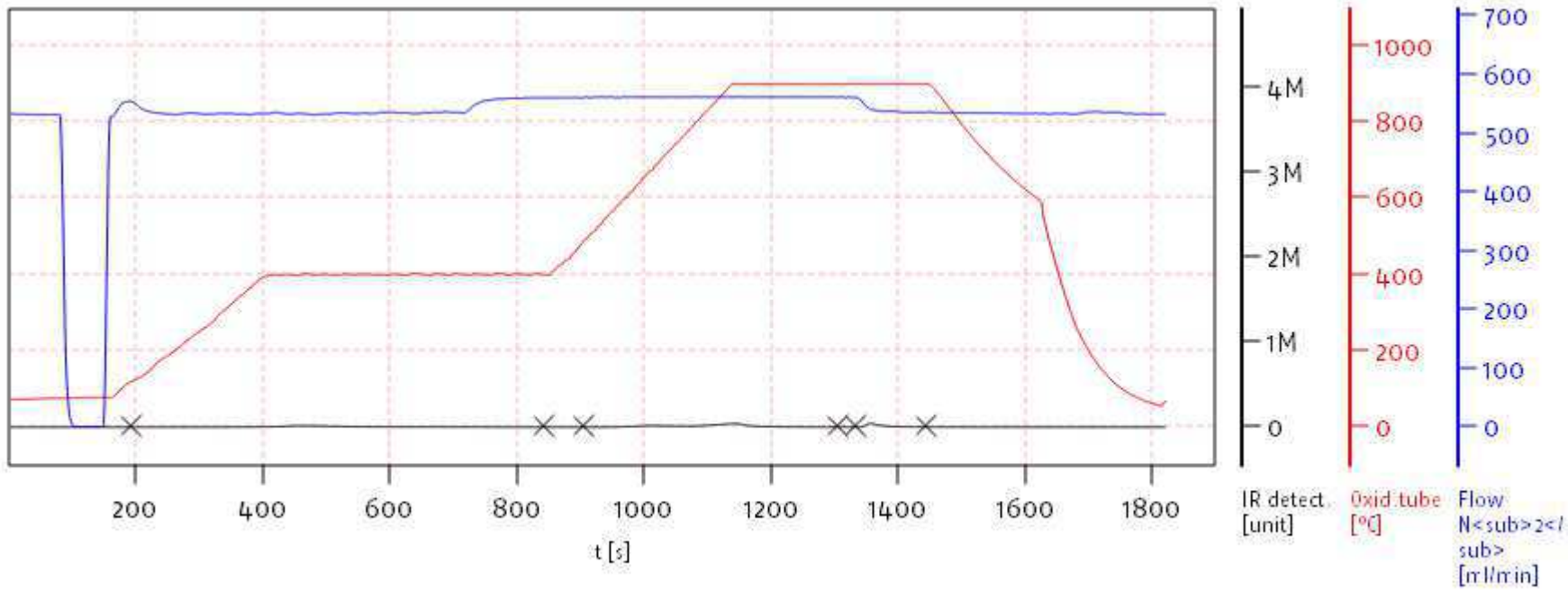
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
39	39	22L0473-08	656.50		CARBON	12/29/2022 9:46 AM	bl	0.018	82 729	0.049	0.005	47 366	160 533	0.013	0.032	0.9594	1.0000



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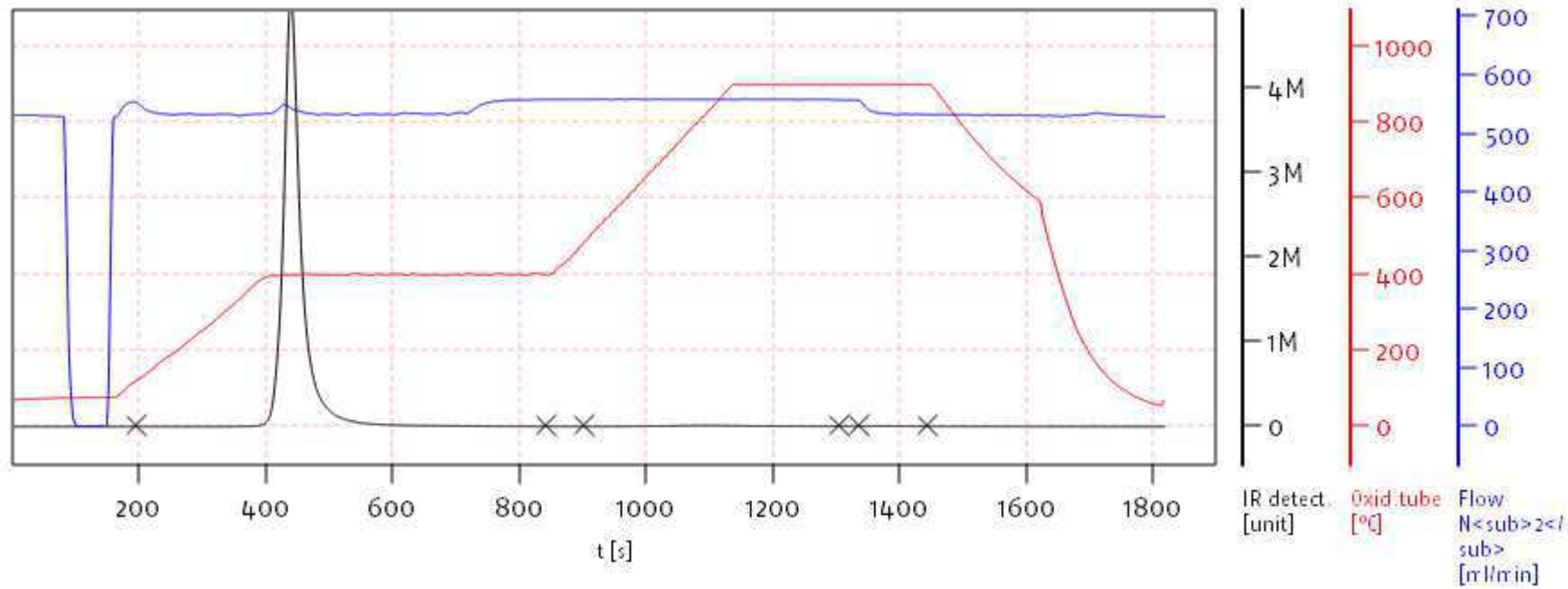
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
40	40	SKL0336-CCV3	20.70		CARBON	12/29/2022 10:16 AM	bl	44.803	6 270 918	45.289	0.000	19 363	91 414	44.803	0.485	0.9594	1.0000



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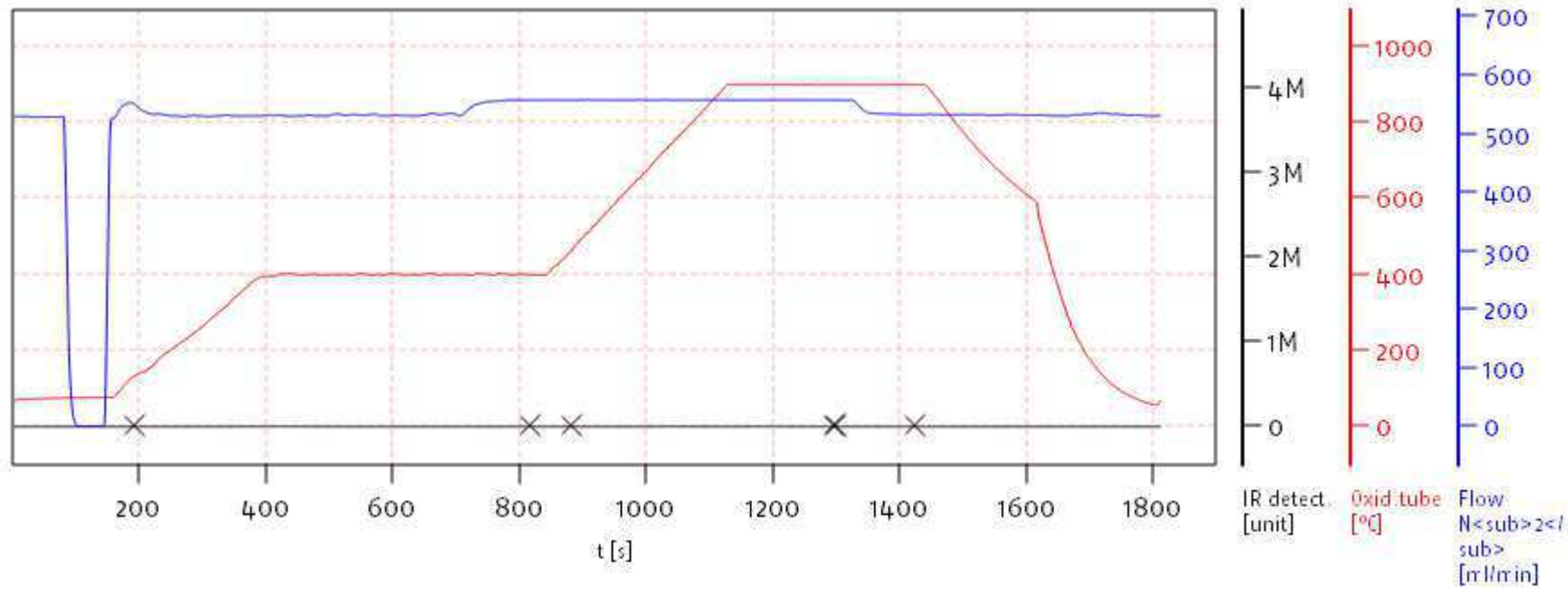
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
41	41	SKL0336-CCB3	510.40		CARBON	12/29/2022 10:47 AM	bl,C2u	0.000	8 103	0.000	0.000	1 725	9 839	0.000	0.000	0.9594	1.0000



Name:

Access: soliTOC superuser

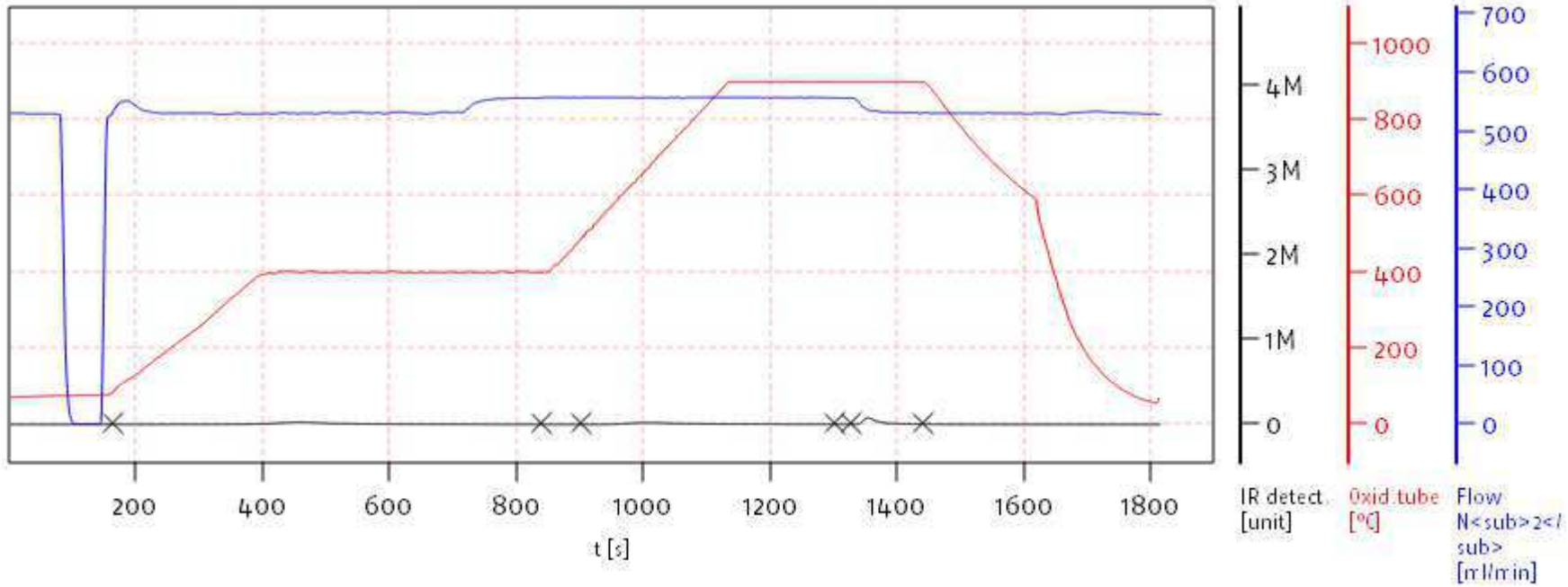
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
42	42	22L0473-09	660.10		CARBON	12/29/2022 11:18 AM	bl	0.037	129 314	0.053	0.014	84 922	96 508	0.023	0.016	0.9594	1.0000



Name:

Access: soliTOC superuser

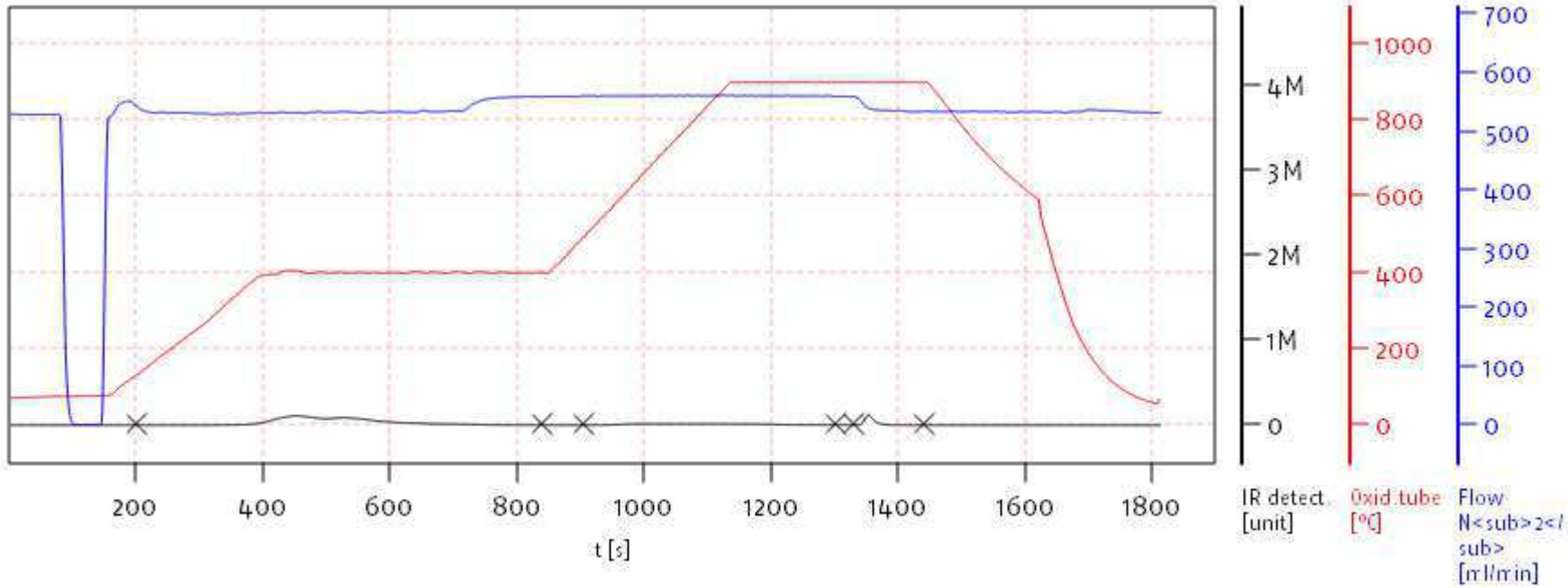
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
43	43	22L0473-10	532.20		CARBON	12/29/2022 11:48 AM	bl	0.206	705 498	0.238	0.016	82 130	137 333	0.189	0.032	0.9594	1.0000



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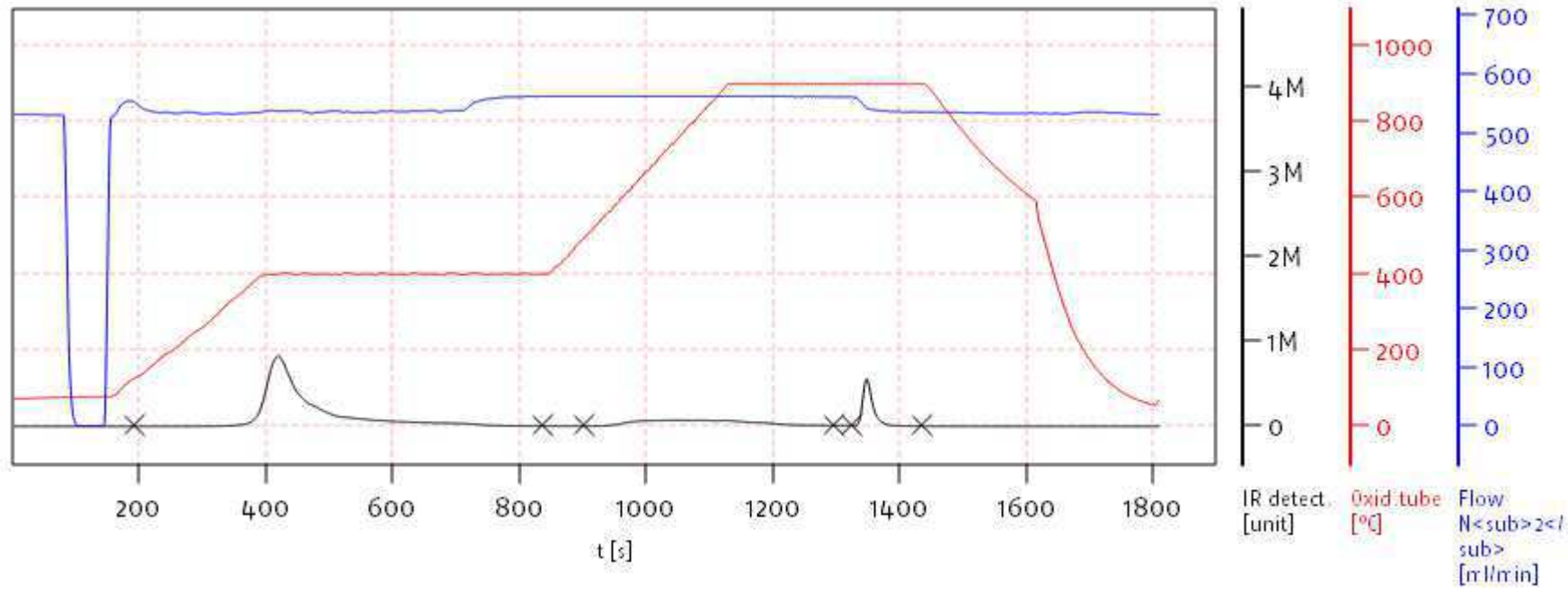
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
44	44	22L0473-11	518.70		CARBON	12/29/2022 12:19 PM	bl	0.809	2 467 152	0.990	0.110	395 819	632 832	0.699	0.181	0.9594	1.0000



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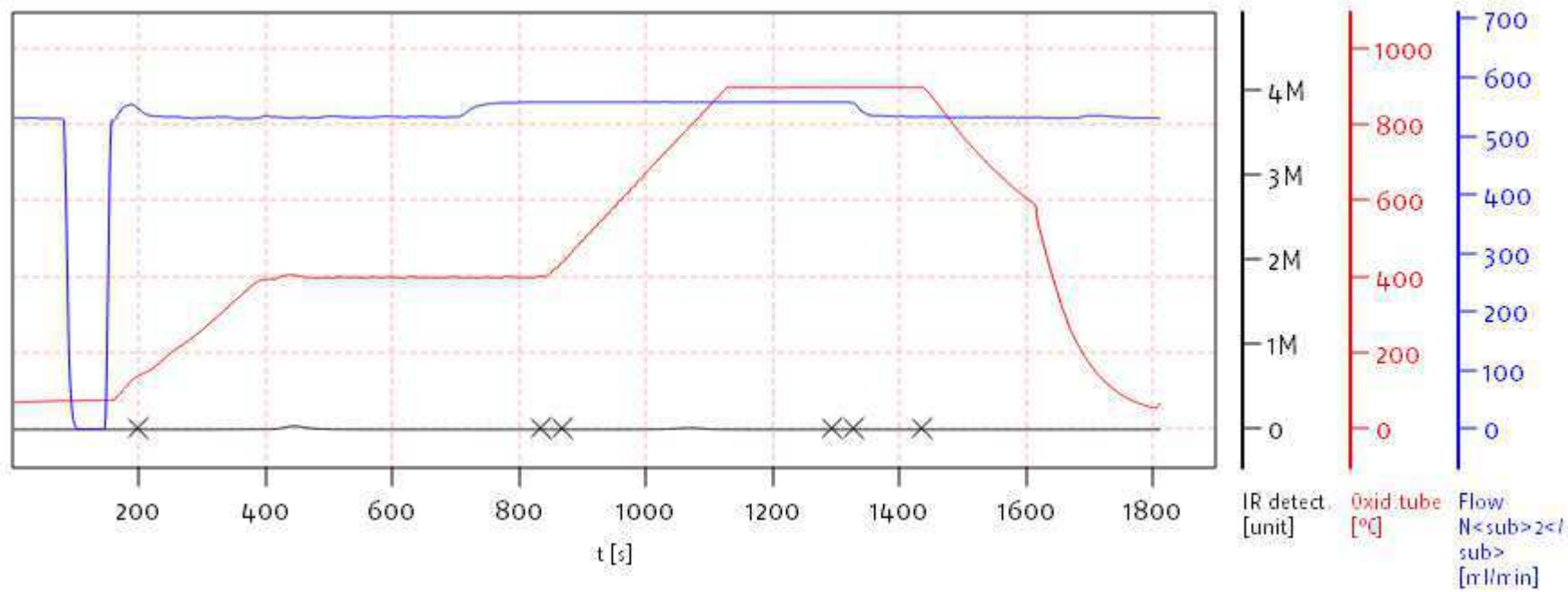
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
45	45	BKL0599-MRL1	542.10		CARBON	12/29/2022 12:49 PM	bl,C2u	0.014	77 667	0.017	0.000	223	38 532	0.014	0.003	0.9594	1.0000



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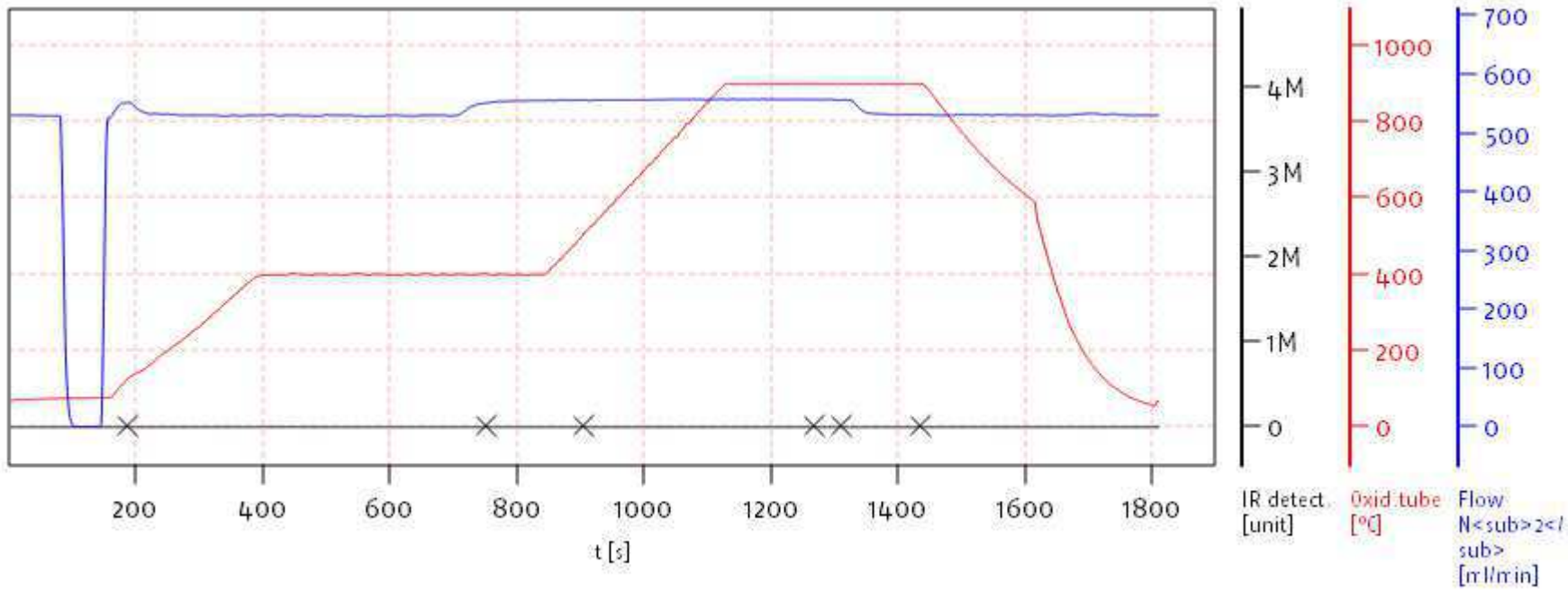
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
46	46	BKL0599-BLK1	511.70		CARBON	12/29/2022 1:20 PM	bl,C3u,C2u	0.000	6 122	0.000	0.000	351	2 112	0.000	0.000	0.9594	1.0000



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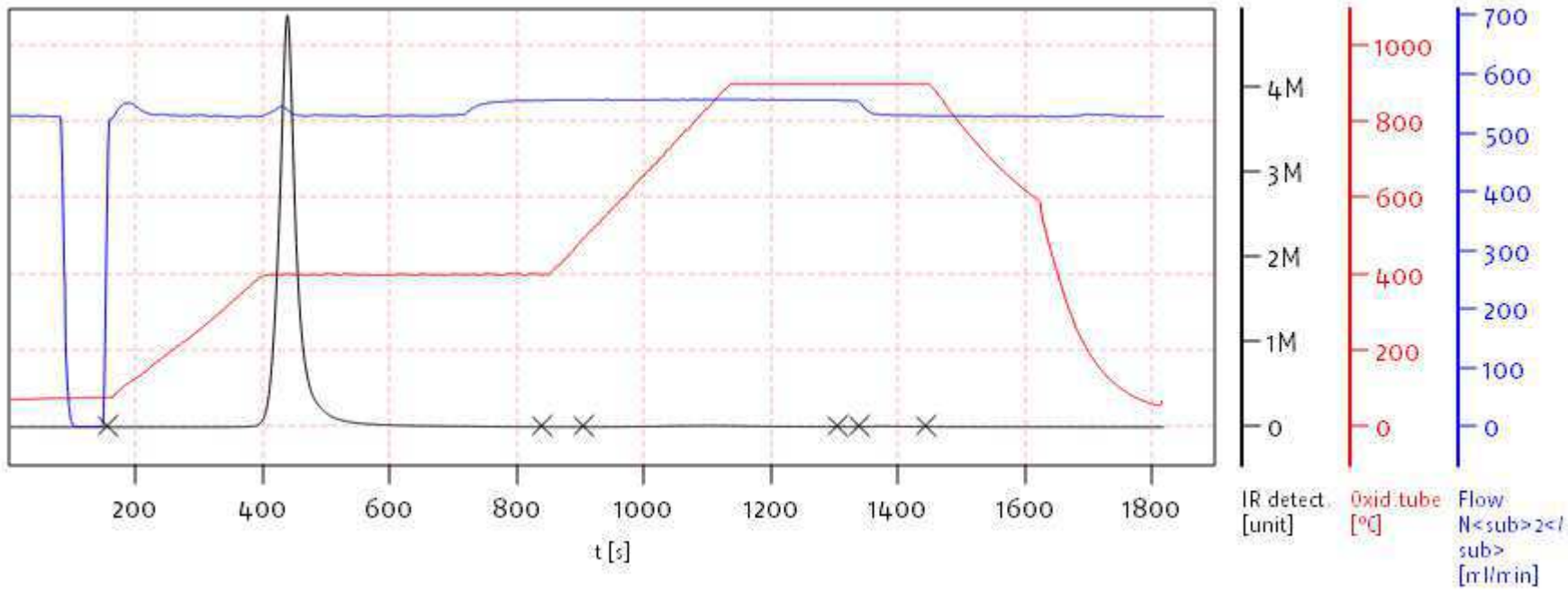
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
47	47	BKL0599-BS1	20.20		CARBON	12/29/2022 1:51 PM	bl	44.477	6 075 734	45.184	0.000	25 270	118 801	44.477	0.707	0.9594	1.0000



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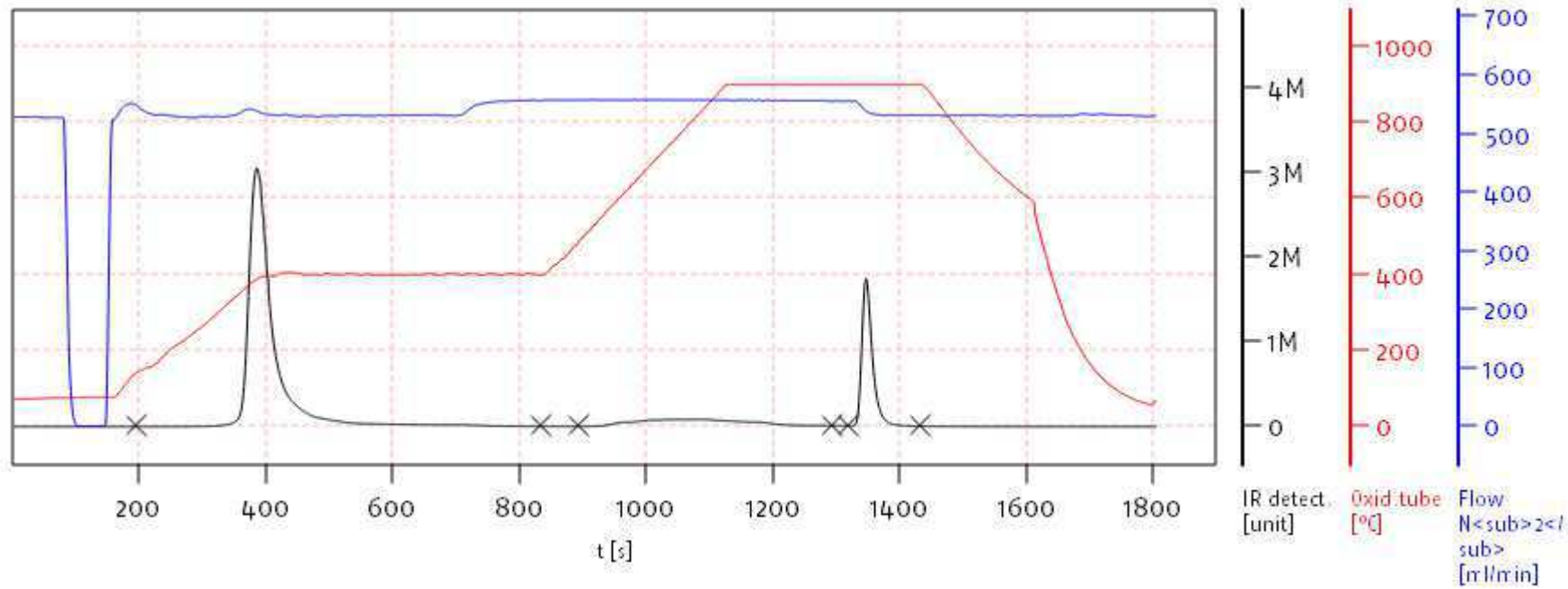
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
48	48	BKL0599-SRM1	305.50		CARBON	12/29/2022 2:21 PM	bl	3.038	4 961 714	3.387	0.638	1 286 356	716 864	2.399	0.350	0.9594	1.0000



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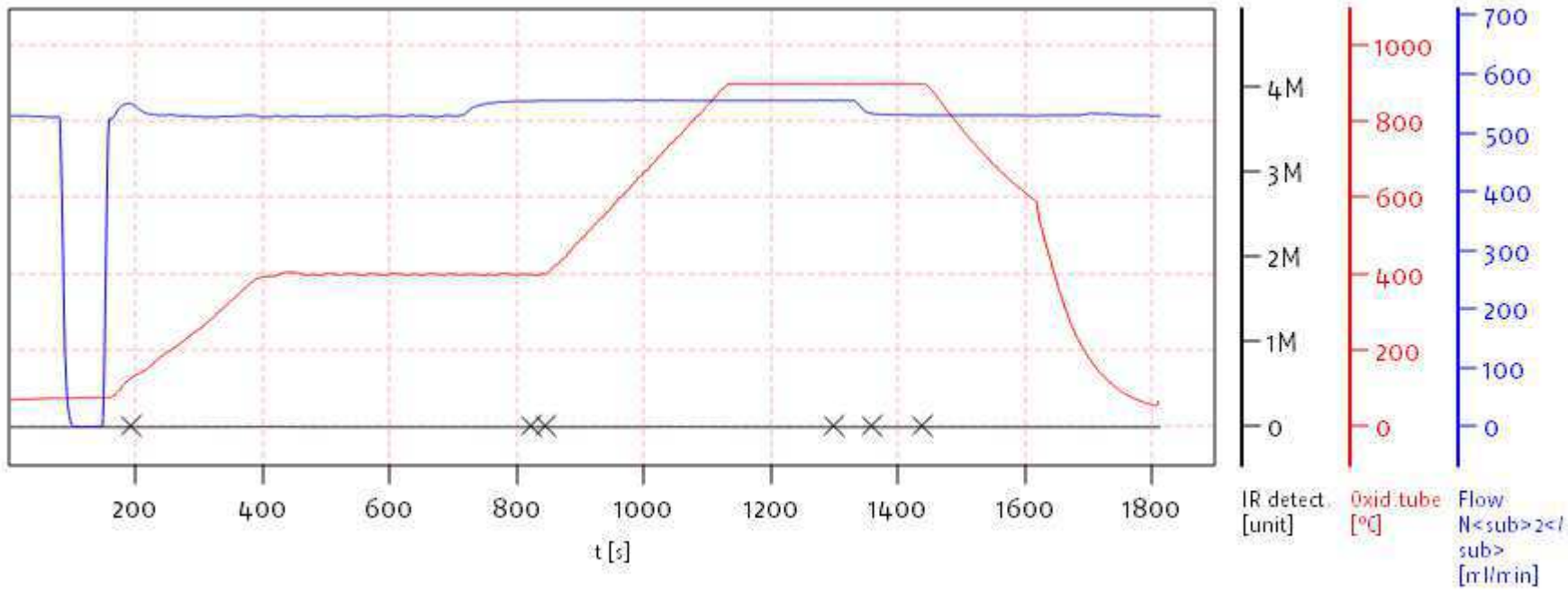
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		CARBON	12/29/2022 2:52 PM	bl	0.000	14 067	0.000	0.000	385	12 446	0.000	0.000	0.9594	1.0000



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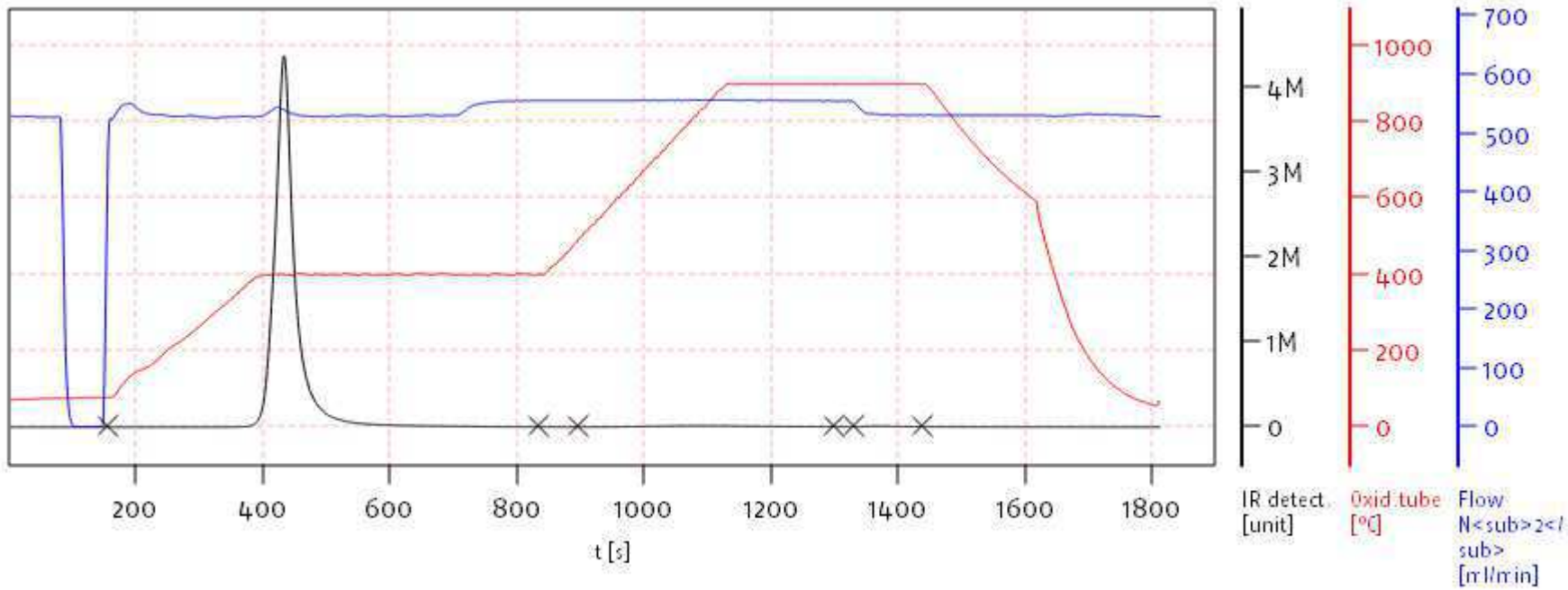
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
50	50	Dfactor	20.30		CARBON	12/29/2022 3:22 PM	bl	44.488	6 071 553	45.253	0.042	32 074	126 811	44.446	0.765	0.9642	1.0000



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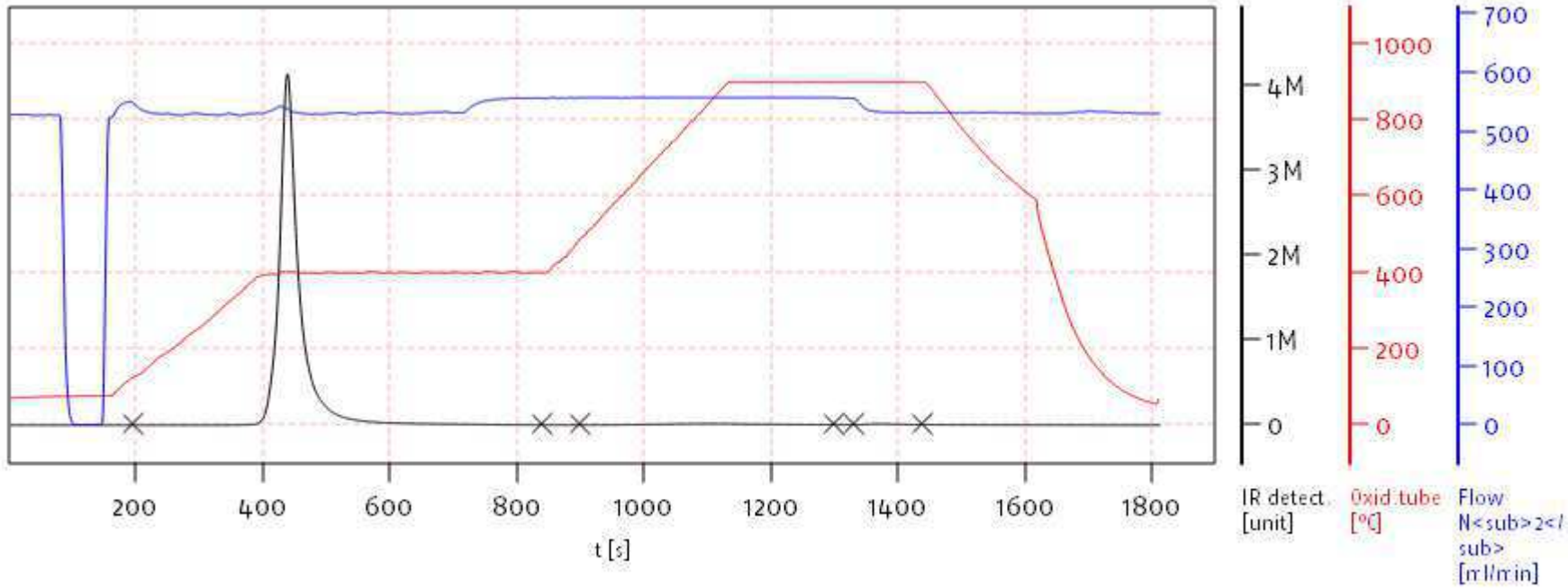
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
51	51	Dfactor	19.40		CARBON	12/29/2022 3:53 PM	bl	44.532	5 648 968	45.396	0.086	37 352	134 792	44.446	0.864	0.9907	1.0000



Name:

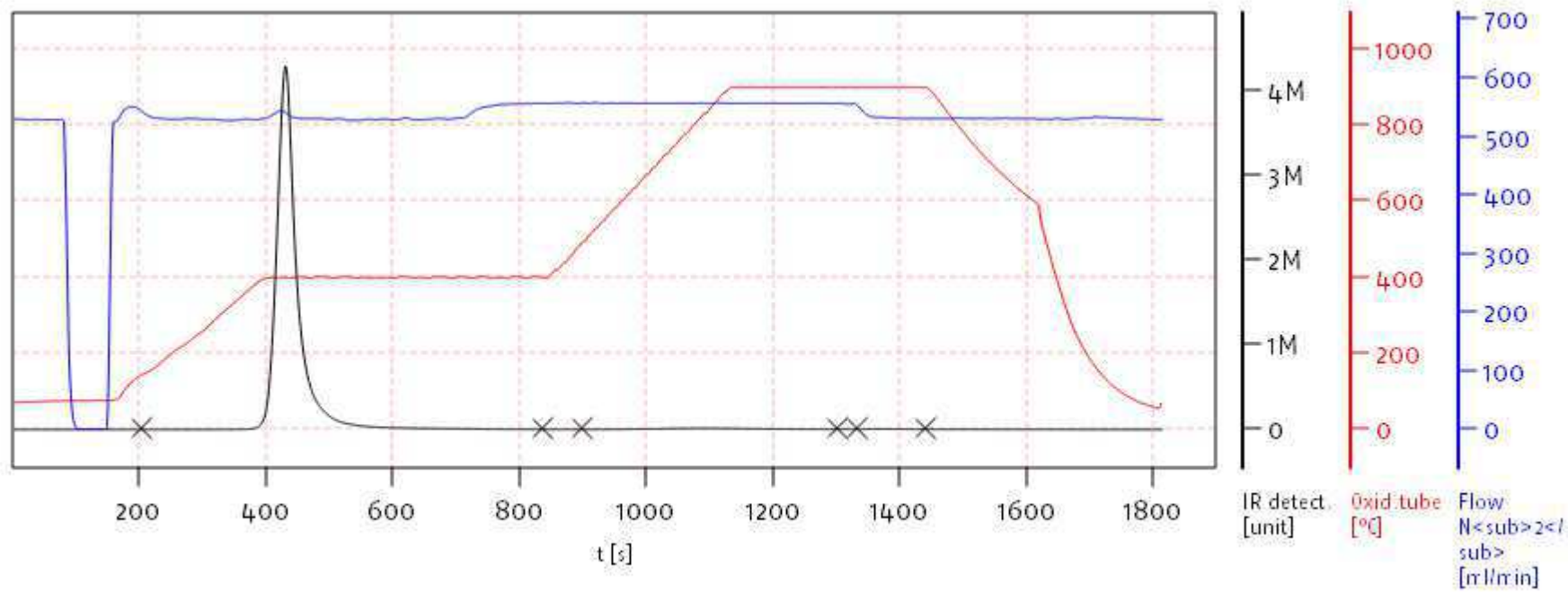
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
52	52	SKL0336-CCV4	19.90		CARBON	12/29/2022 4:24 PM	bl	45.486	6 008 854	46.126	0.000	19 204	108 821	45.486	0.640	0.9774	1.0000



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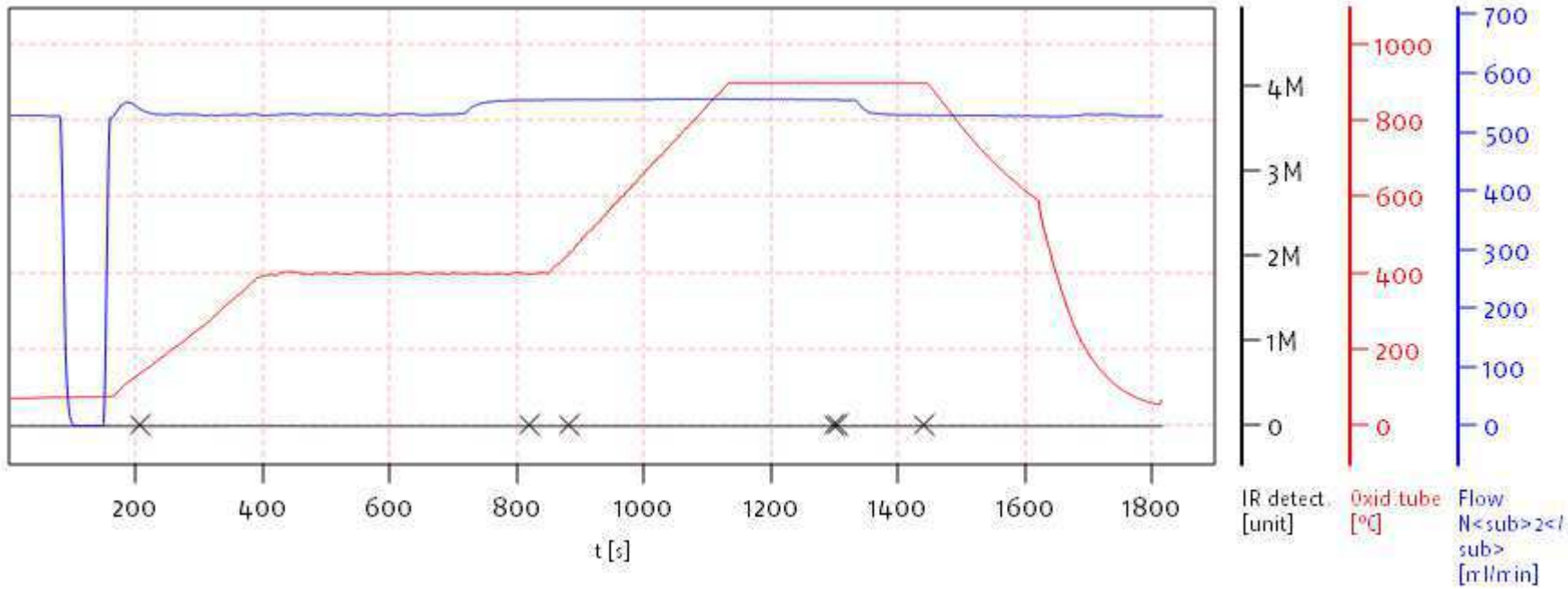
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
53	53	SKL0336-CCB4	515.10		CARBON	12/29/2022 4:54 PM	bl,C3u,C2u	0.000	8 905	0.000	0.000	1 135	209	0.000	0.000	0.9774	1.0000



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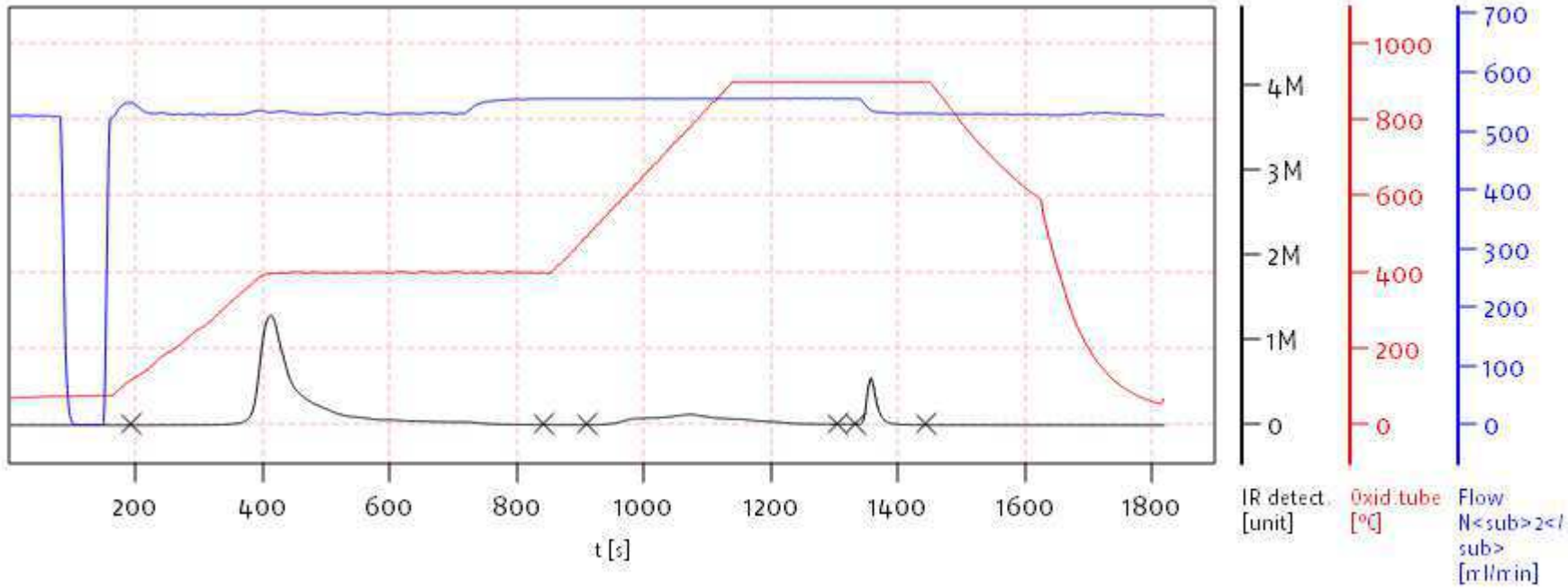
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
54	54	22L0383-01	530.50		CARBON	12/29/2022 5:25 PM	bl	1.051	3 340 156	1.287	0.106	388 705	835 873	0.945	0.236	0.9774	1.0000



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Serial No: 0300.181017
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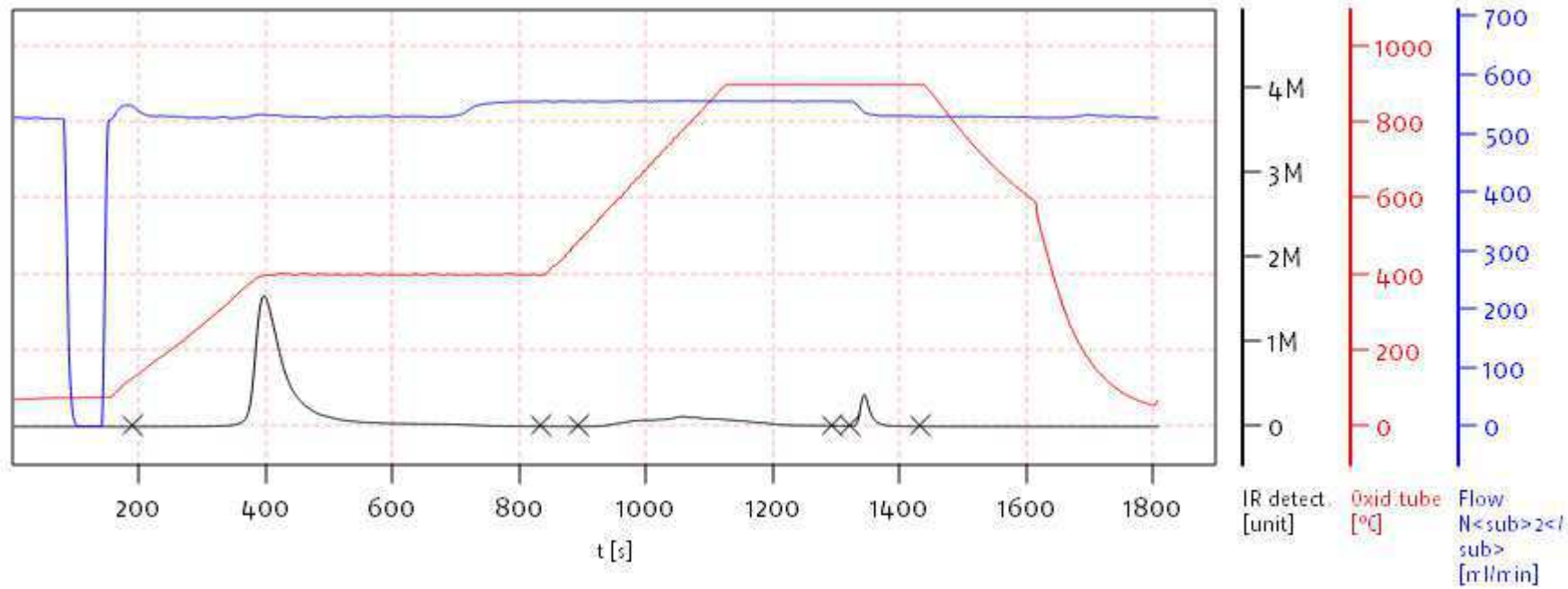
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
55	55	BKL0599-DUP1	526.90		CARBON	12/29/2022 5:56 PM	bl	1.054	3 447 169	1.279	0.072	270 814	793 040	0.982	0.225	0.9774	1.0000



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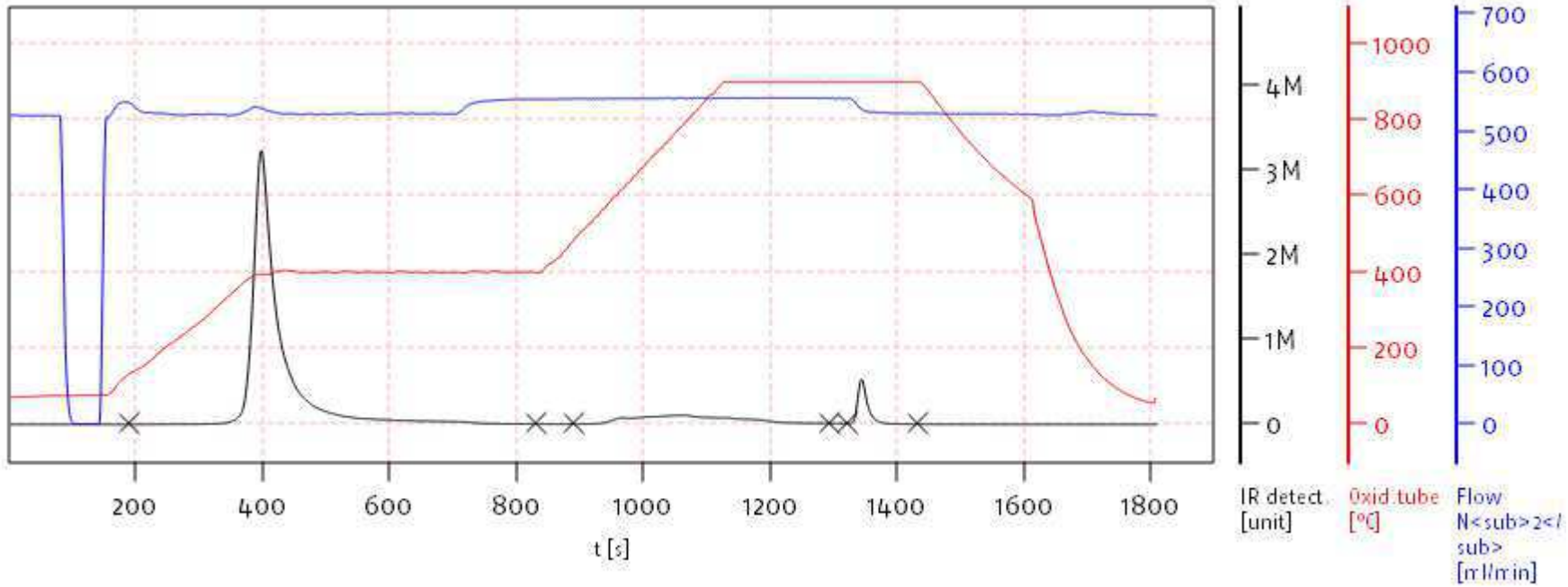
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
56	56	BKL0599-MS1	514.40	0.0077	CARBON	12/29/2022 6:26 PM	bl	1.761	5 663 480	2.005	0.103	368 136	837 398	1.658	0.244	0.9774	1.0000



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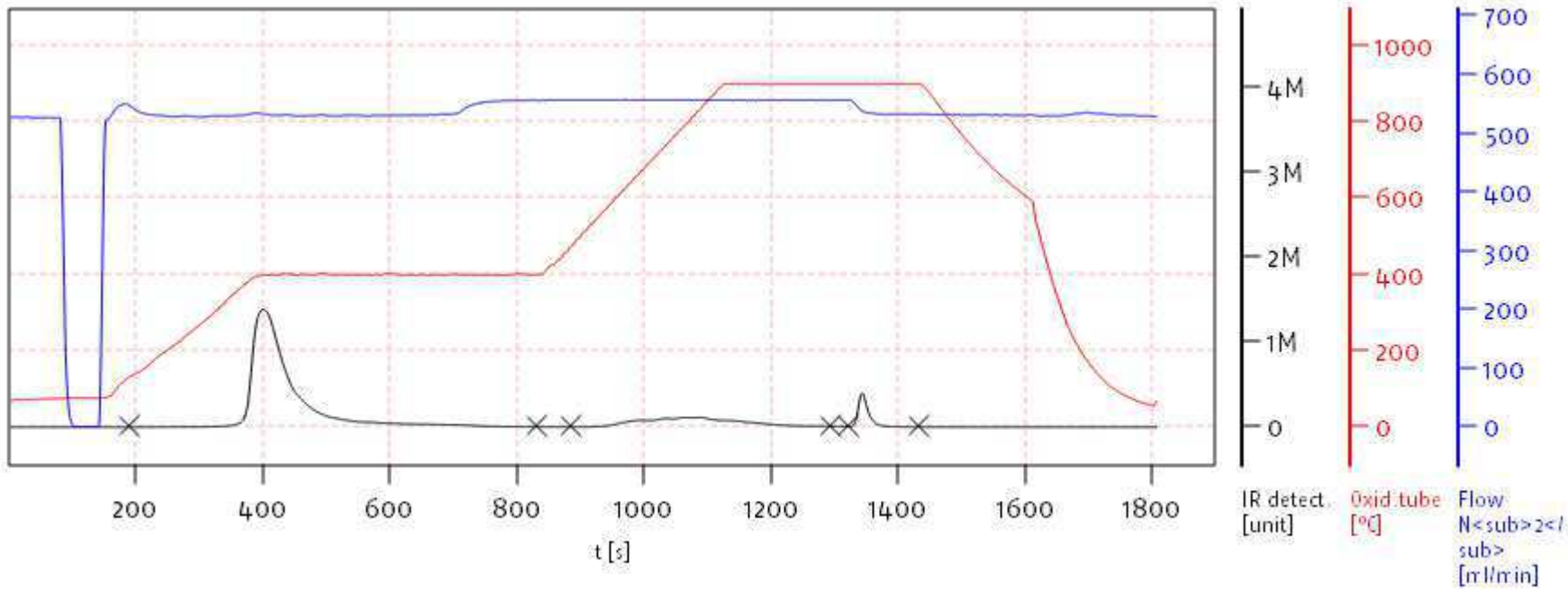
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
57	57	22L0383-02	514.70		CARBON	12/29/2022 6:57 PM	bl	1.141	3 645 618	1.376	0.077	283 261	808 295	1.064	0.235	0.9774	1.0000



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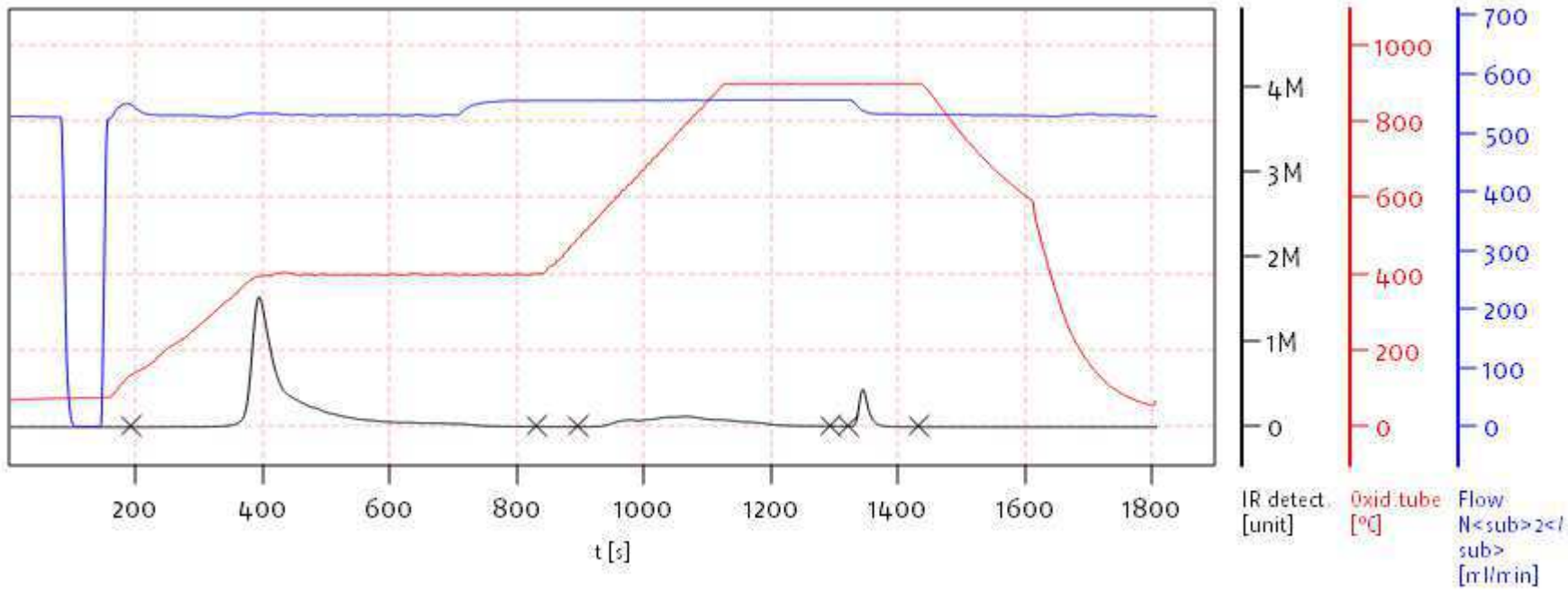
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
58	58	22L0383-03	521.30		CARBON	12/29/2022 7:27 PM	bl	1.085	3 485 611	1.339	0.081	300 520	879 129	1.004	0.253	0.9774	1.0000



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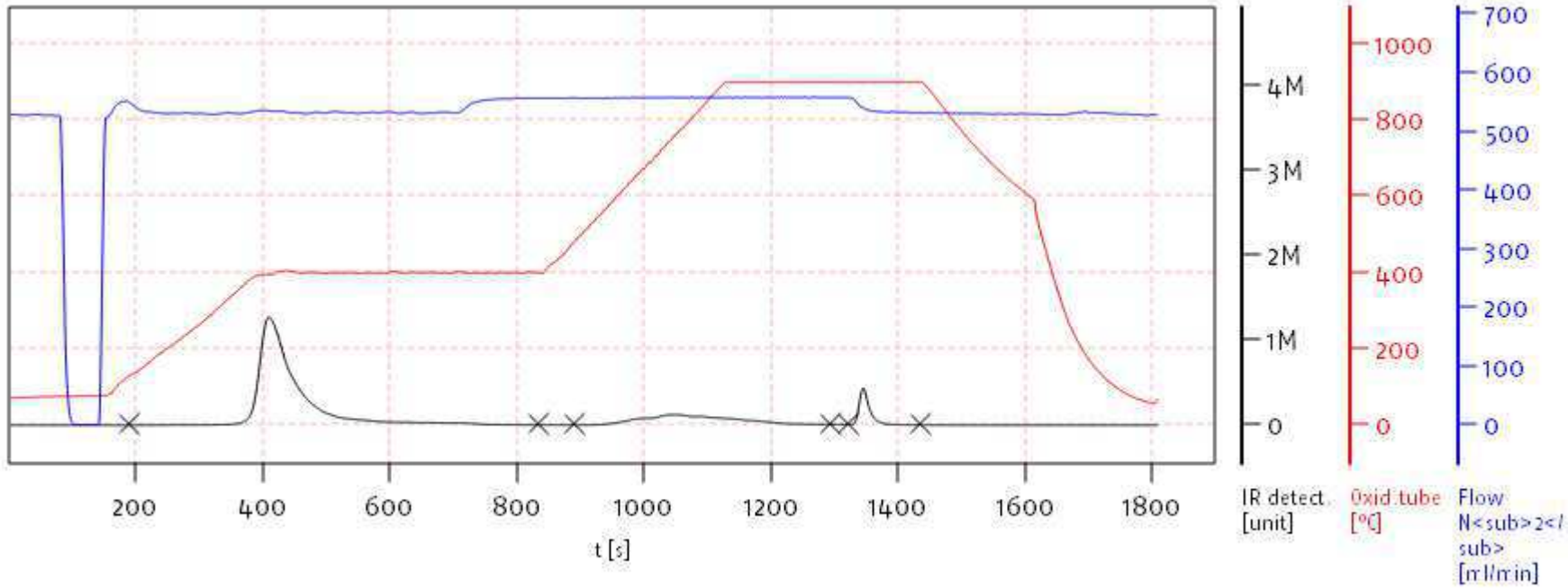
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
59	59	22L0383-04	533.60		CARBON	12/29/2022 7:58 PM	bl	0.977	3 174 085	1.204	0.085	317 850	808 806	0.893	0.227	0.9774	1.0000



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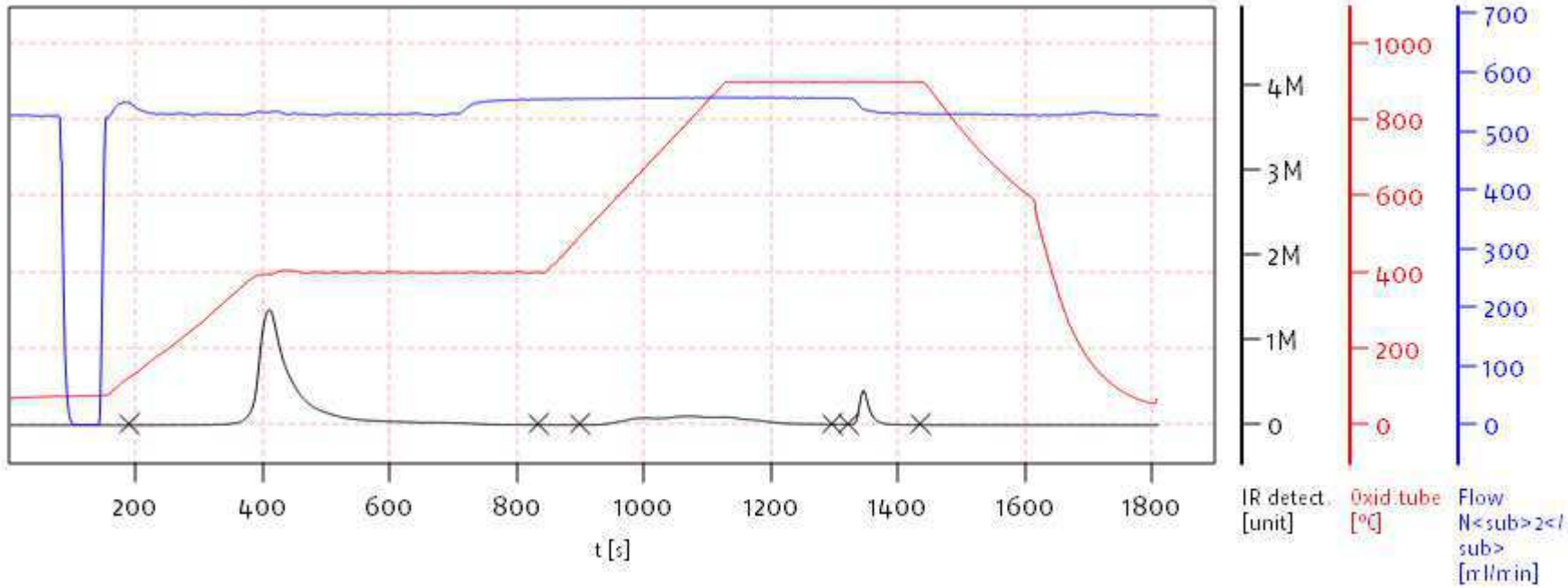
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
60	60	22L0383-05	512.90		CARBON	12/29/2022 8:28 PM	bl	1.019	3 208 439	1.256	0.081	293 878	812 113	0.939	0.237	0.9774	1.0000



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Serial No: 0300.181017
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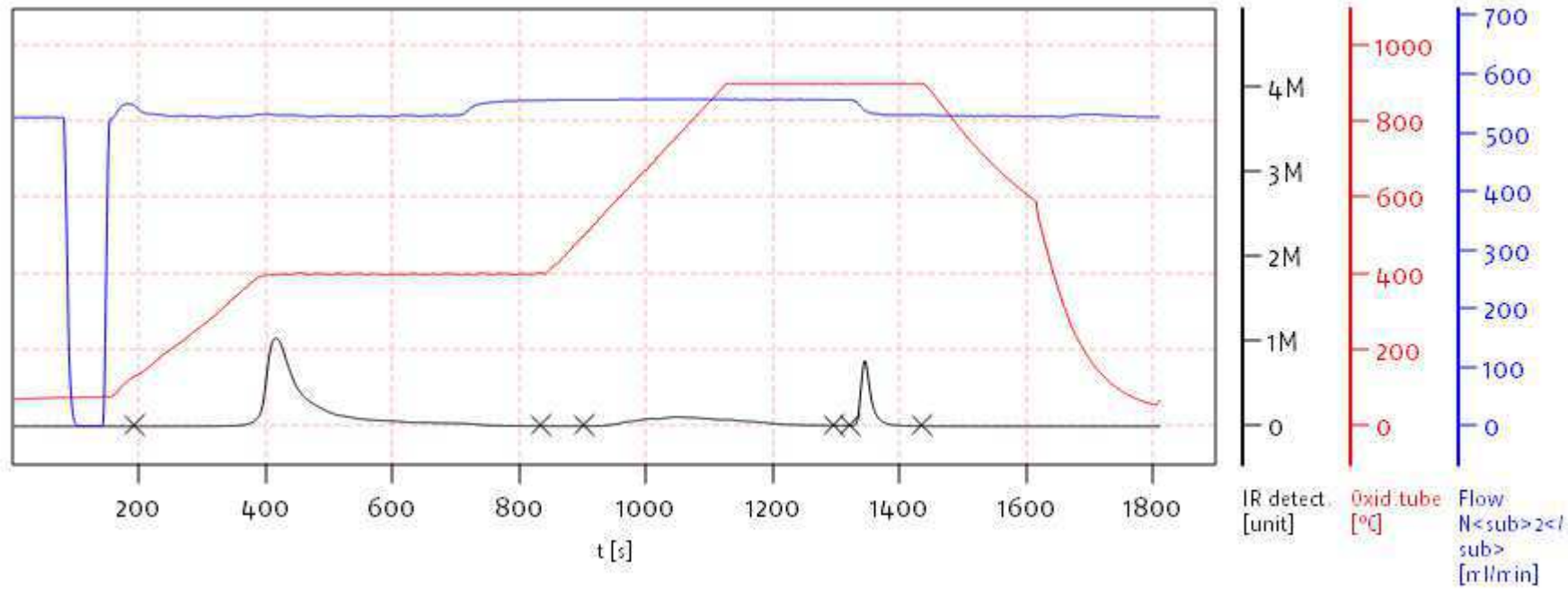
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
61	61	22L0383-06	512.90		CARBON	12/29/2022 8:59 PM	bl	0.975	2 792 391	1.208	0.160	555 017	796 339	0.816	0.232	0.9774	1.0000



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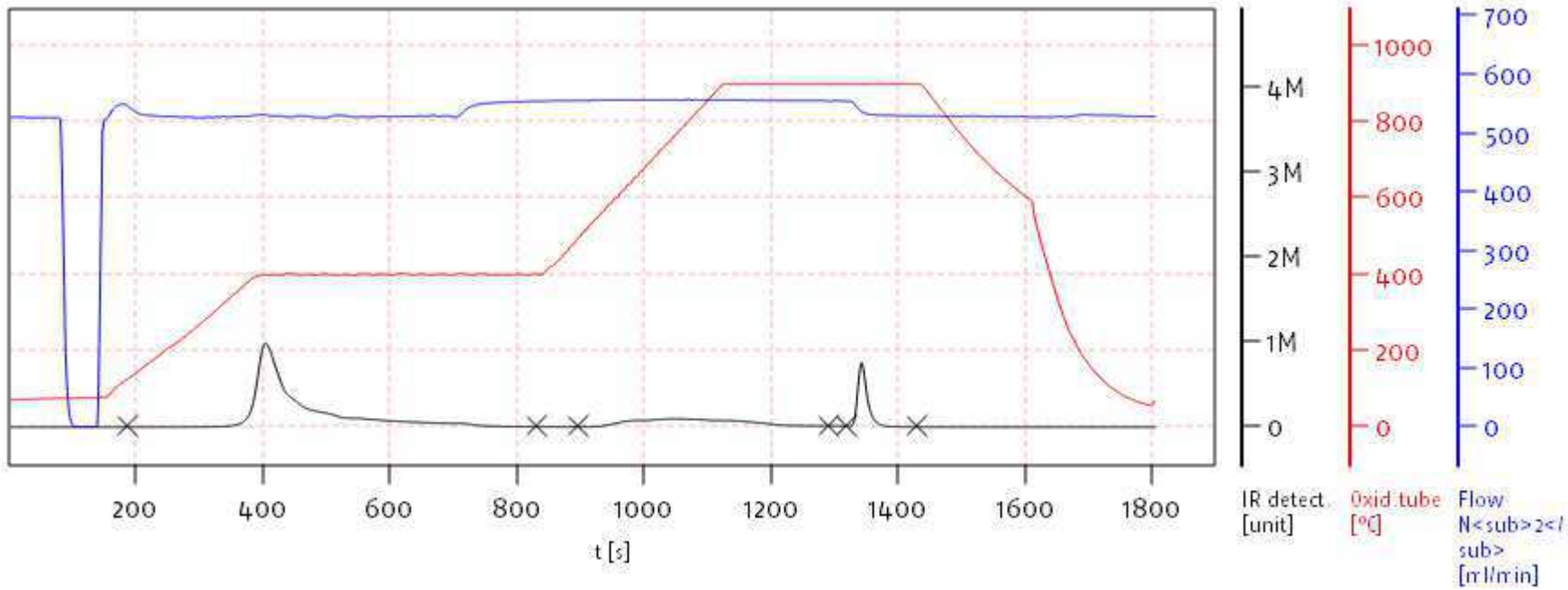
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
62	62	22L0383-07	505.70		CARBON	12/29/2022 9:29 PM	bl	0.962	2 751 206	1.197	0.147	505 449	794 926	0.815	0.235	0.9774	1.0000



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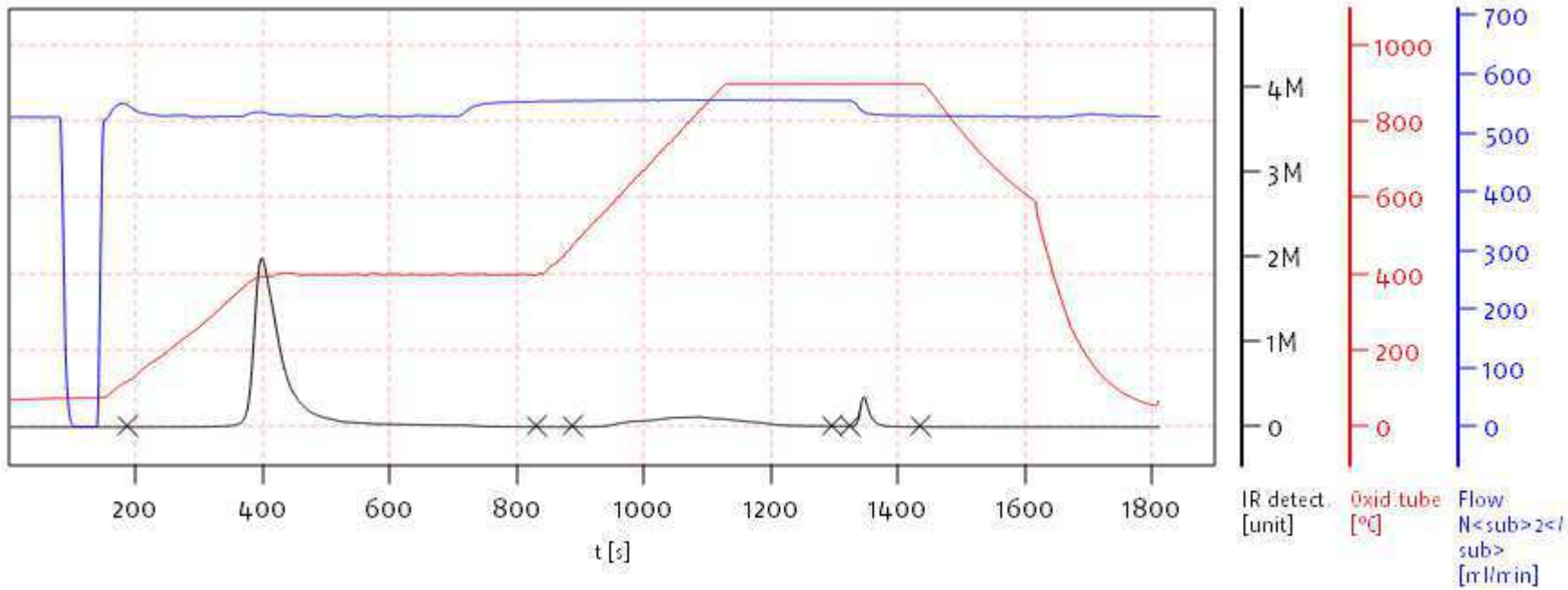
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
63	63	22L0383-08	550.00		CARBON	12/29/2022 10:00 PM	bl	1.136	3 931 260	1.369	0.062	245 905	854 228	1.074	0.233	0.9774	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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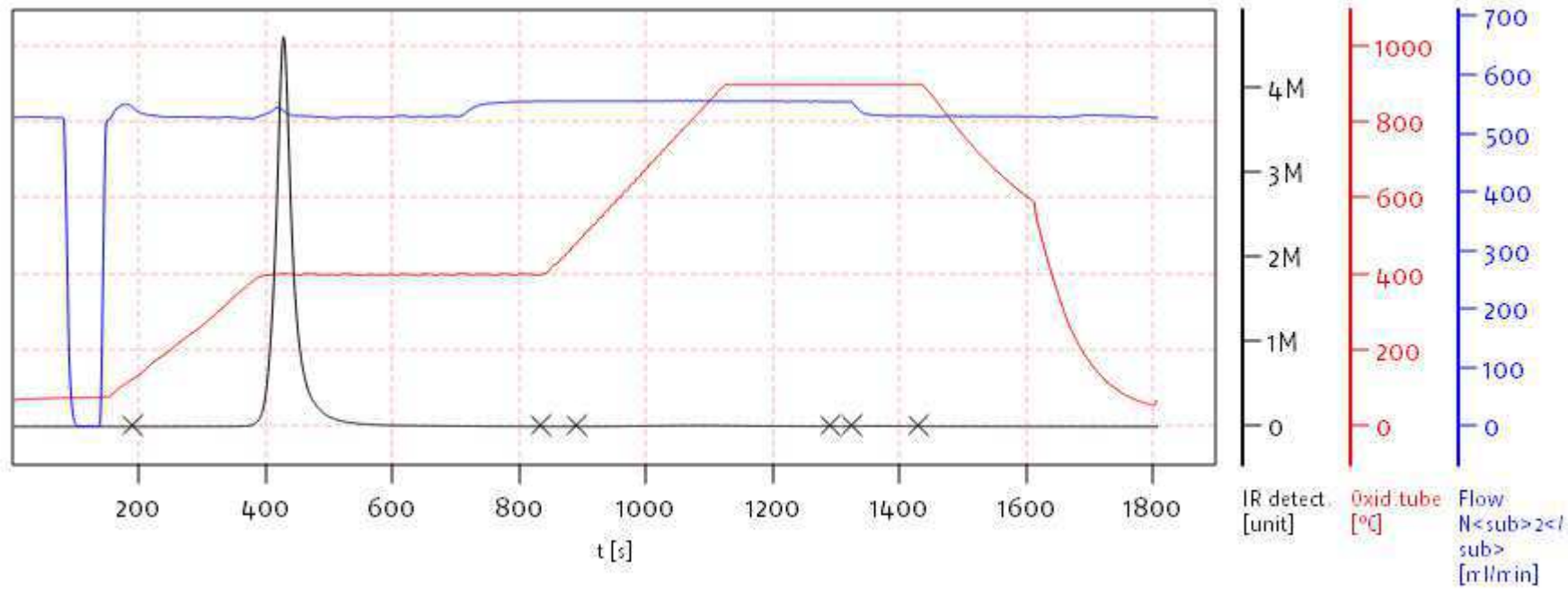
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
64	64	SKL0336-CCV5	19.20		CARBON	12/29/2022 10:30 PM	bl	45.251	5 768 684	45.852	0.000	20 849	101 047	45.251	0.601	0.9774	1.0000



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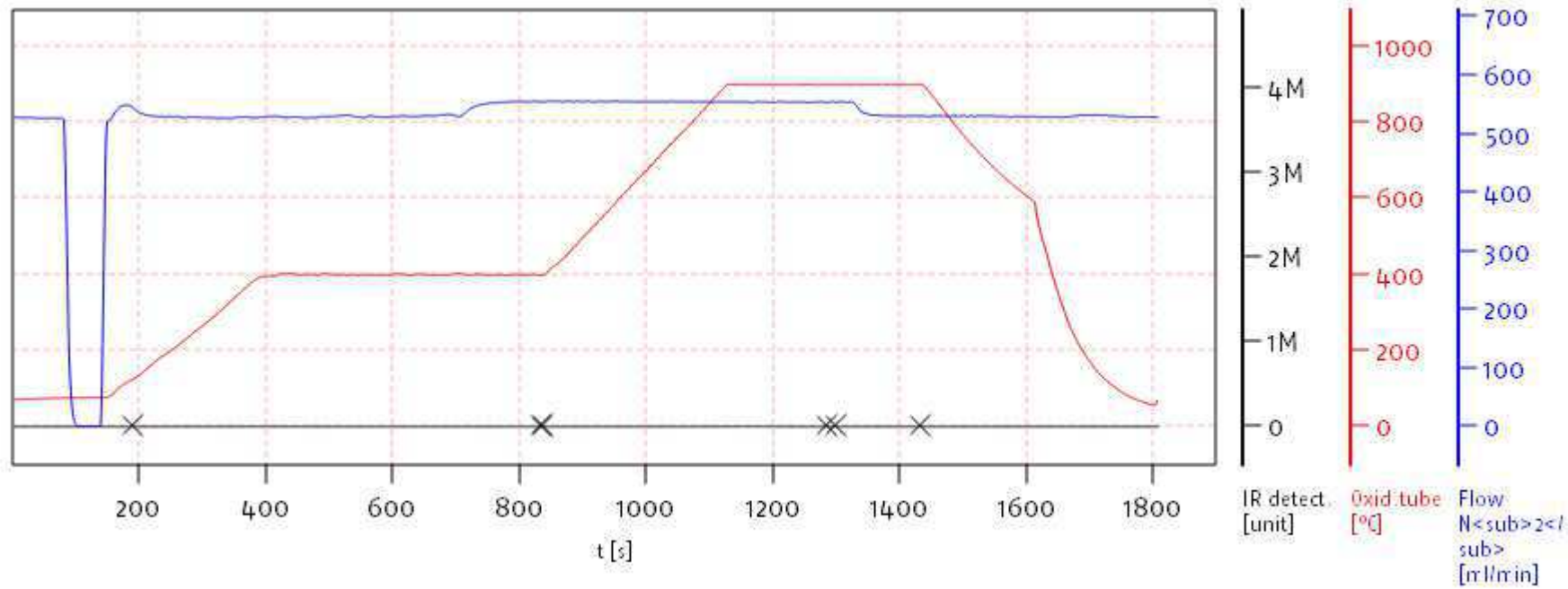
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
65	65	SKL0336-CCB5	526.20		CARBON	12/29/2022 11:01 PM	bl,C2u	0.000	5 957	0.000	0.000	963	7 715	0.000	0.000	0.9774	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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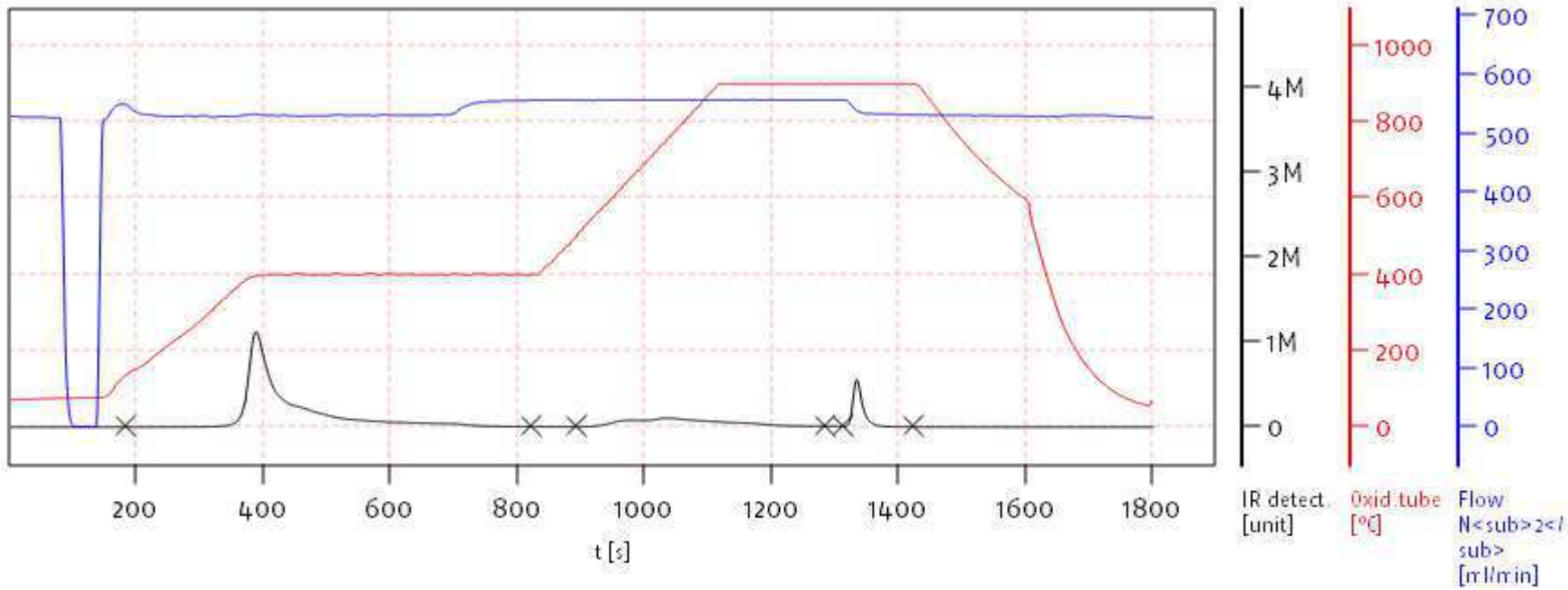
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
66	66	22L0417-01	501.80		CARBON	12/29/2022 11:31 PM	bl	0.939	2 776 504	1.160	0.110	381 880	741 948	0.829	0.221	0.9774	1.0000



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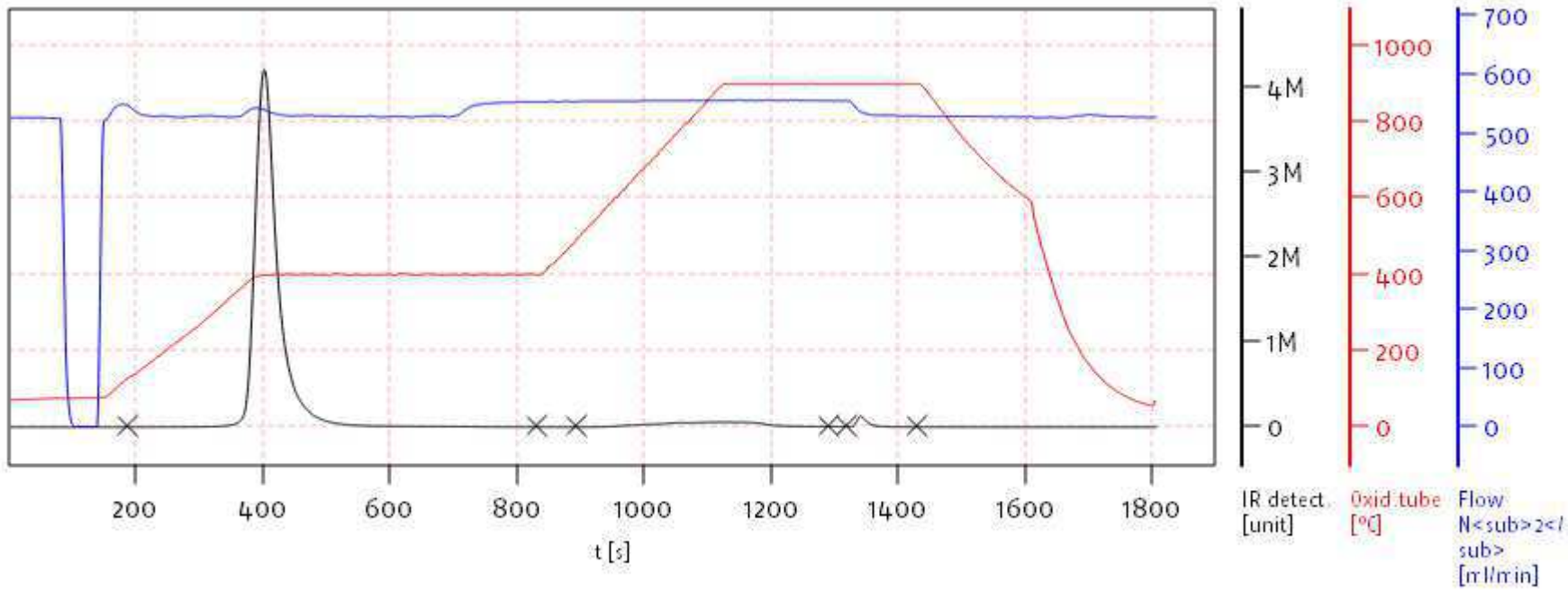
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
67	67	22L0417-02	525.70		CARBON	12/30/2022 12:02 AM	bl	1.908	6 581 365	2.030	0.021	97 977	441 929	1.887	0.122	0.9774	1.0000



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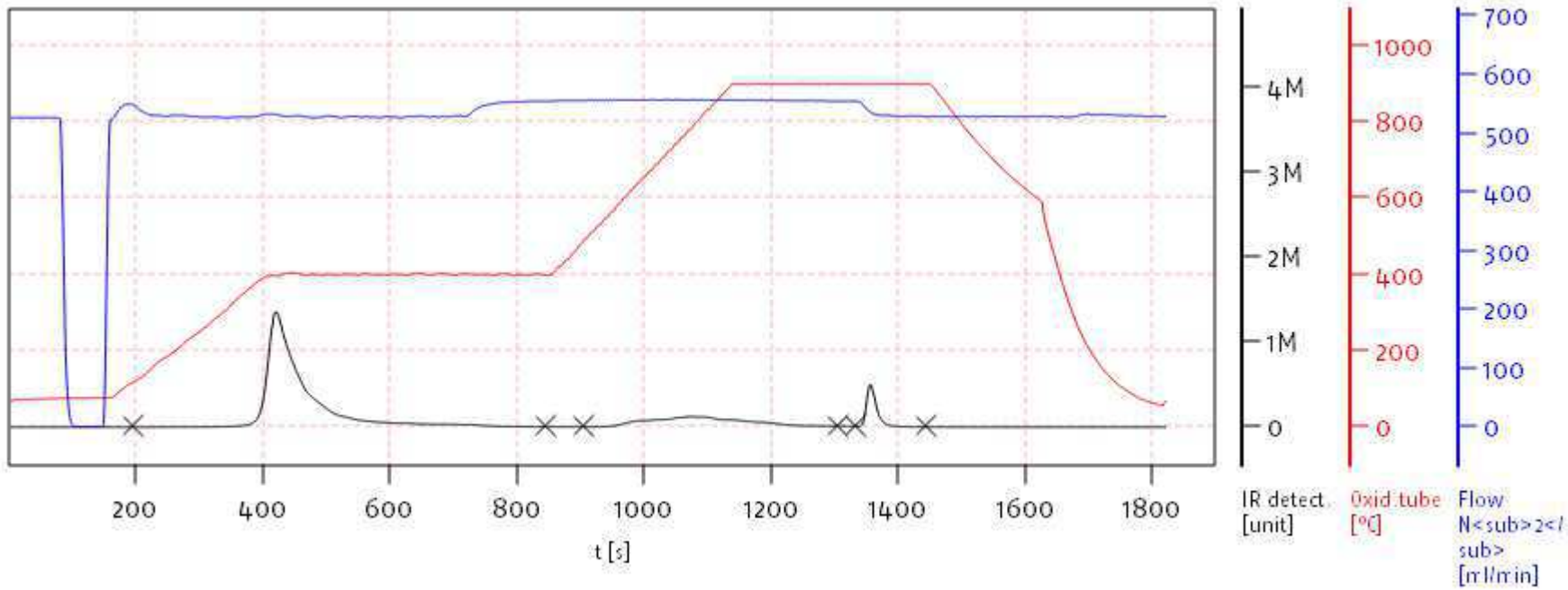
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
68	68	22L0417-03	525.80		CARBON	12/30/2022 12:33 AM	bl	1.036	3 293 495	1.282	0.096	352 622	862 415	0.940	0.246	0.9774	1.0000



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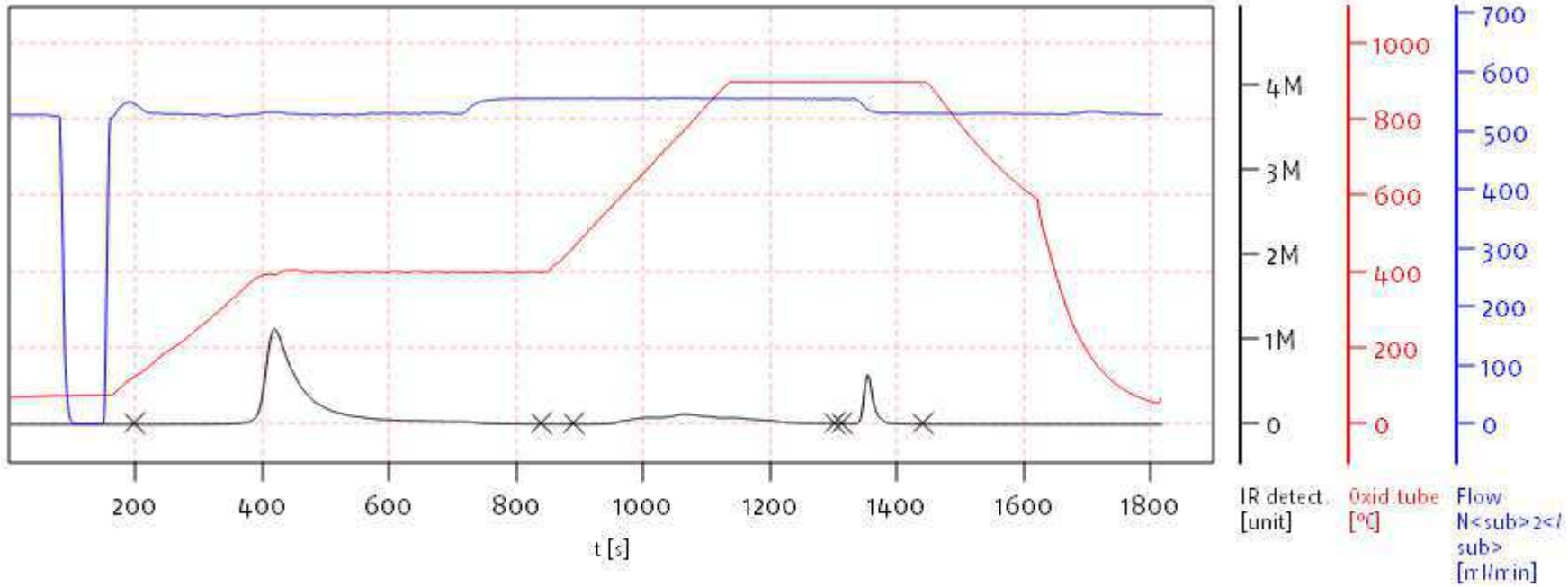
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
69	69	22L0417-04	510.20		CARBON	12/30/2022 1:03 AM	bl	0.981	2 945 531	1.218	0.115	405 637	807 116	0.866	0.237	0.9774	1.0000



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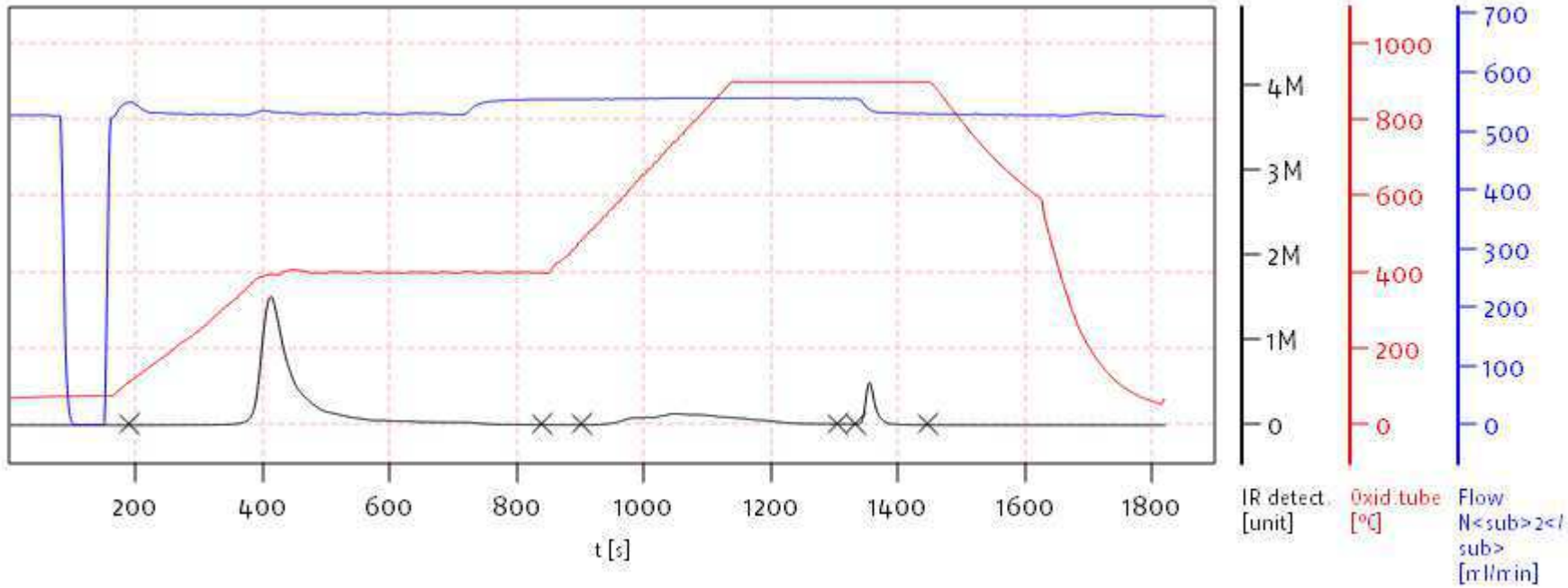
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
70	70	22L0417-05	537.20		CARBON	12/30/2022 1:34 AM	bl	1.063	3 475 552	1.333	0.092	345 430	963 171	0.971	0.270	0.9774	1.0000



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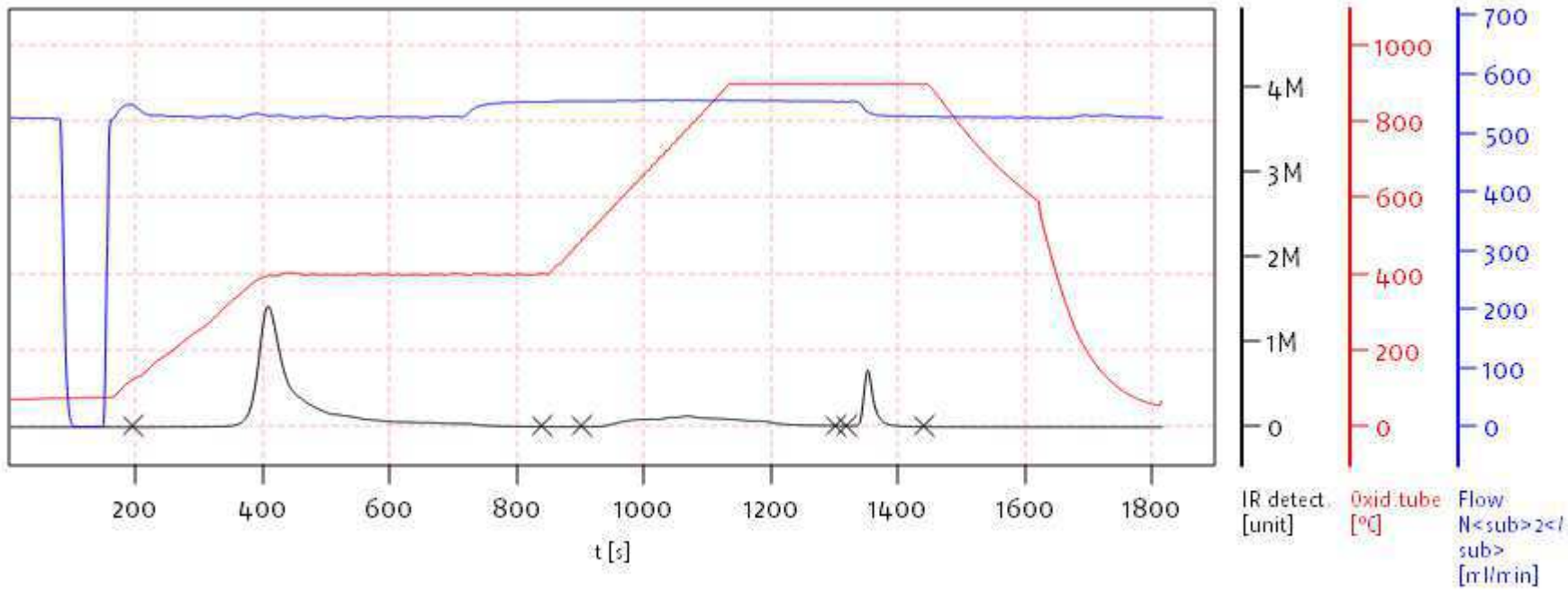
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
71	71	22L0417-06	536.00		CARBON	12/30/2022 2:05 AM	bl	1.120	3 528 412	1.394	0.132	482 377	973 695	0.989	0.274	0.9774	1.0000



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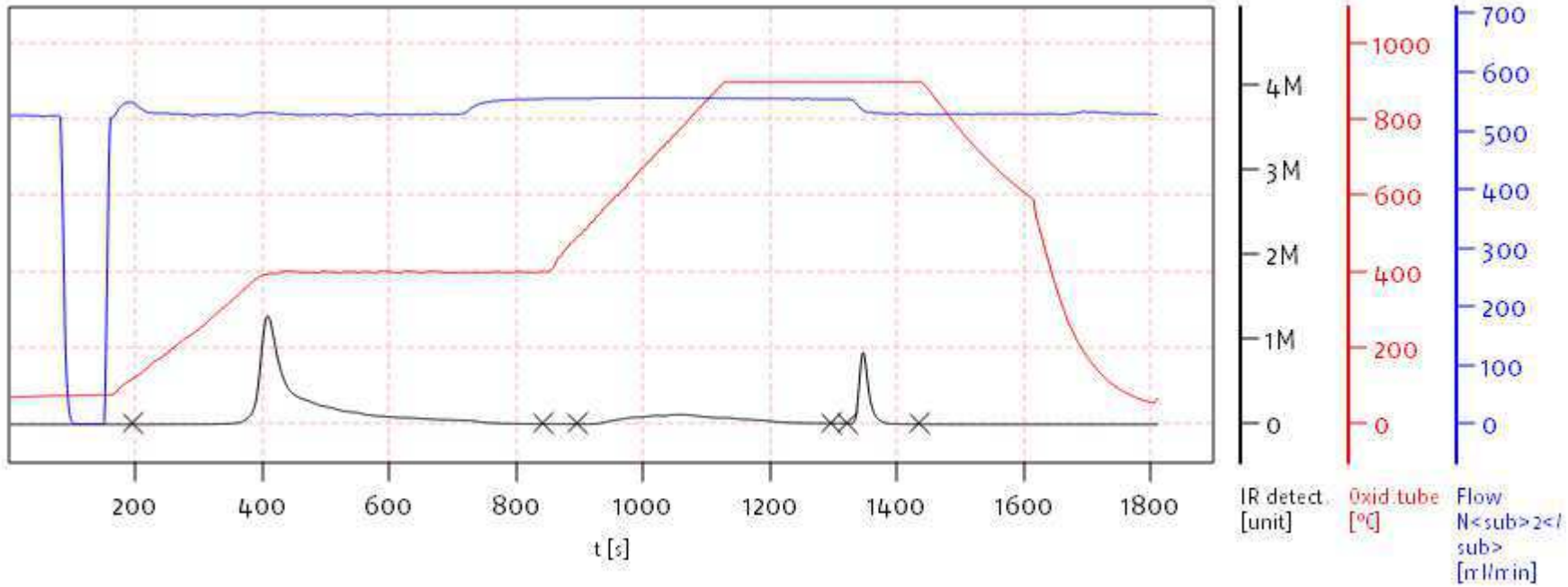
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
72	72	22L0417-07	522.50		CARBON	12/30/2022 2:35 AM	bl	1.088	3 227 152	1.338	0.161	571 561	870 140	0.927	0.250	0.9774	1.0000



Name:

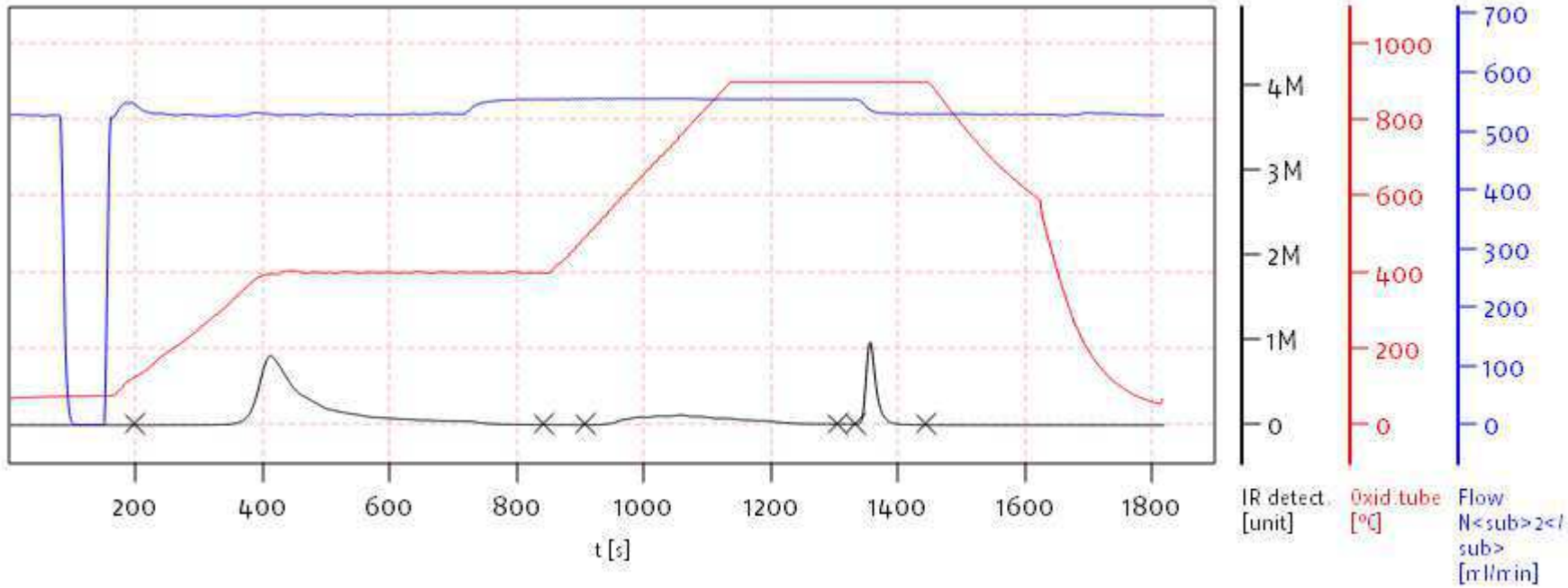
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
73	73	22L0417-08	514.40		CARBON	12/30/2022 3:06 AM	bl	1.060	2 953 173	1.313	0.199	688 000	868 121	0.861	0.253	0.9774	1.0000



Name:

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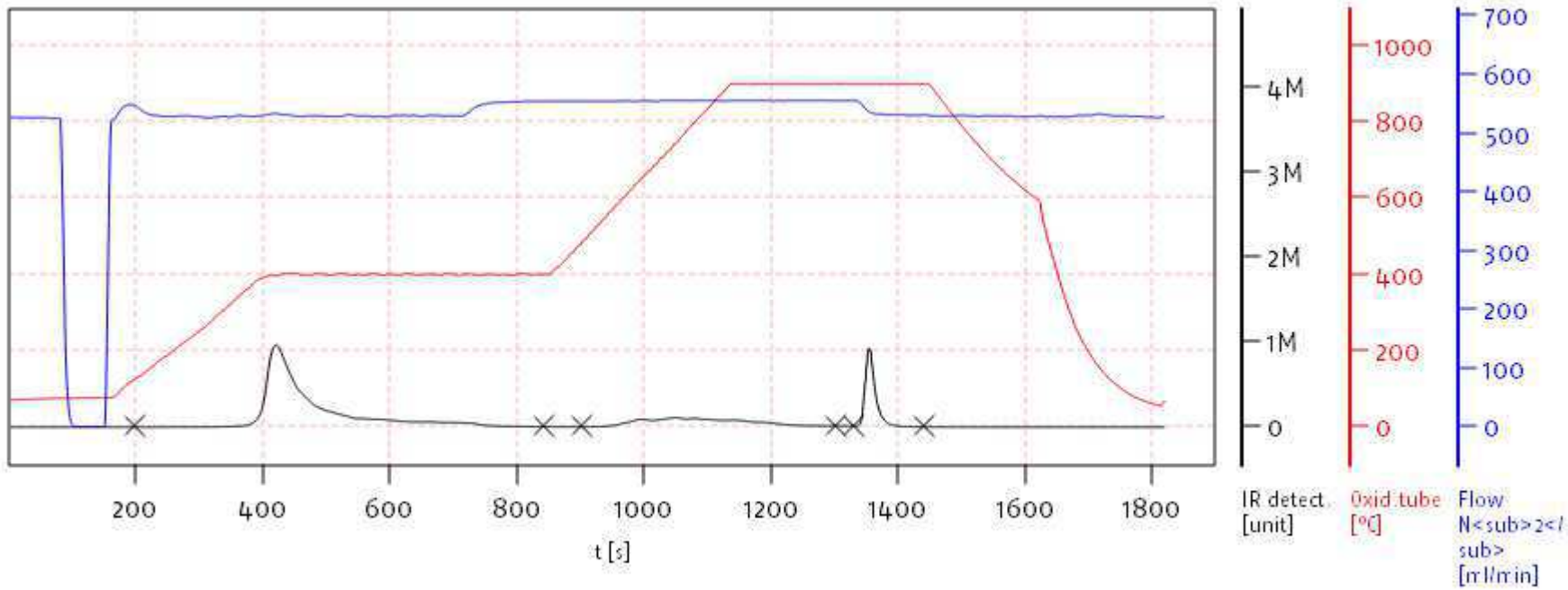
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
74	74	22L0417-09	556.60		CARBON	12/30/2022 3:37 AM	bl	0.946	2 861 405	1.171	0.175	656 235	836 164	0.771	0.225	0.9774	1.0000



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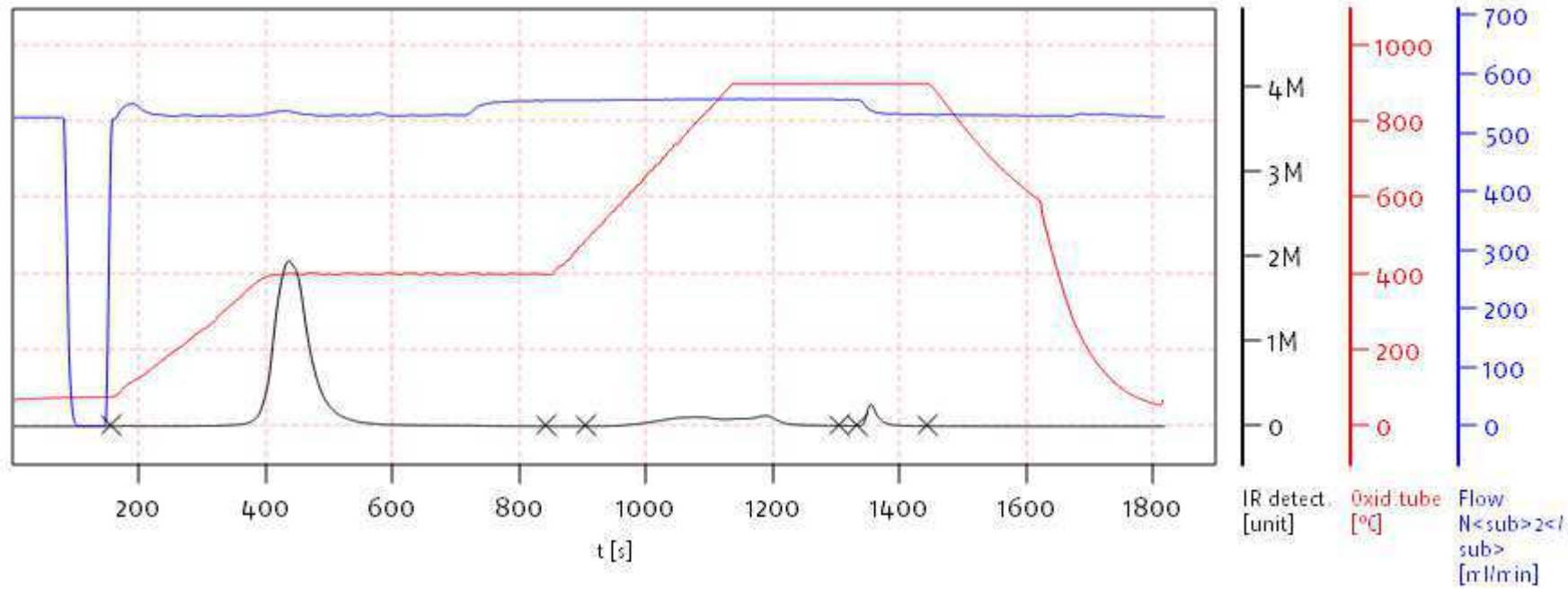
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
75	75	22L0492-17	516.20		CARBON	12/30/2022 4:07 AM	bl	1.479	4 882 583	1.722	0.056	211 950	836 440	1.423	0.243	0.9774	1.0000



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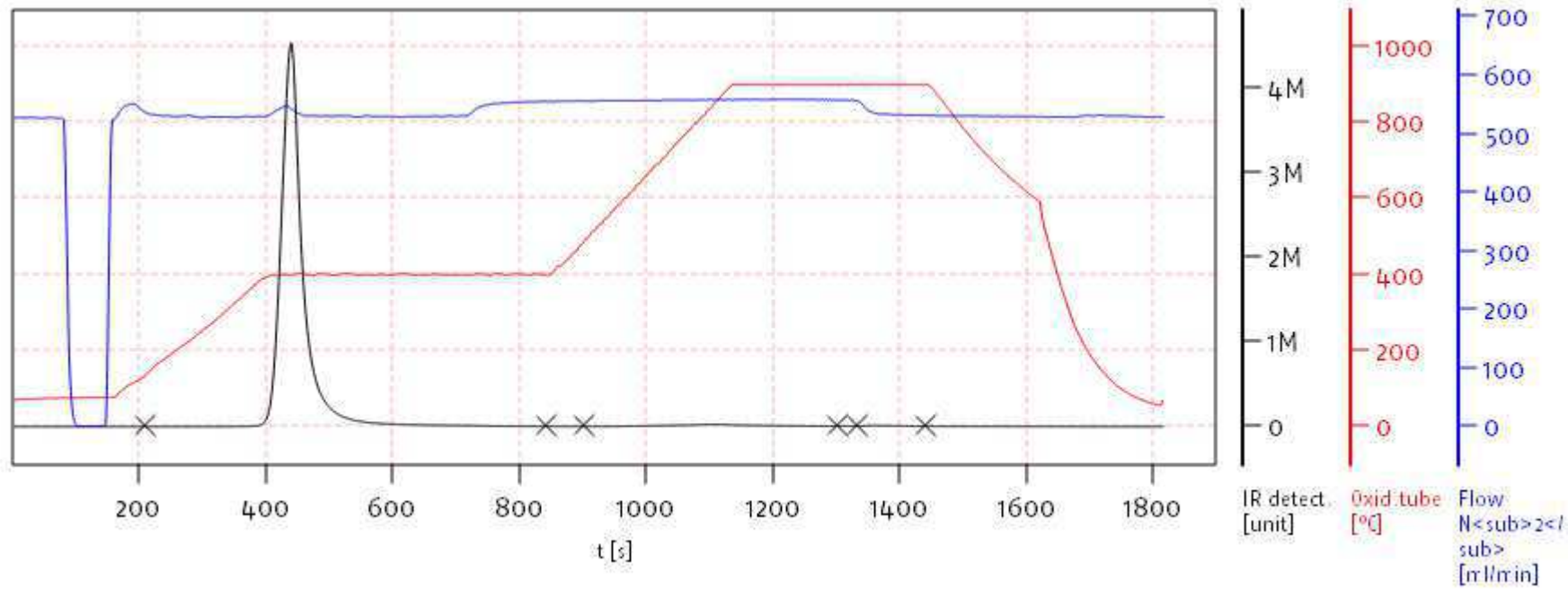
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
76	76	SKL0336-CCV6	22.50		CARBON	12/30/2022 4:38 AM	bl	45.006	6 712 219	45.991	0.047	33 362	169 589	44.959	0.984	0.9774	1.0000



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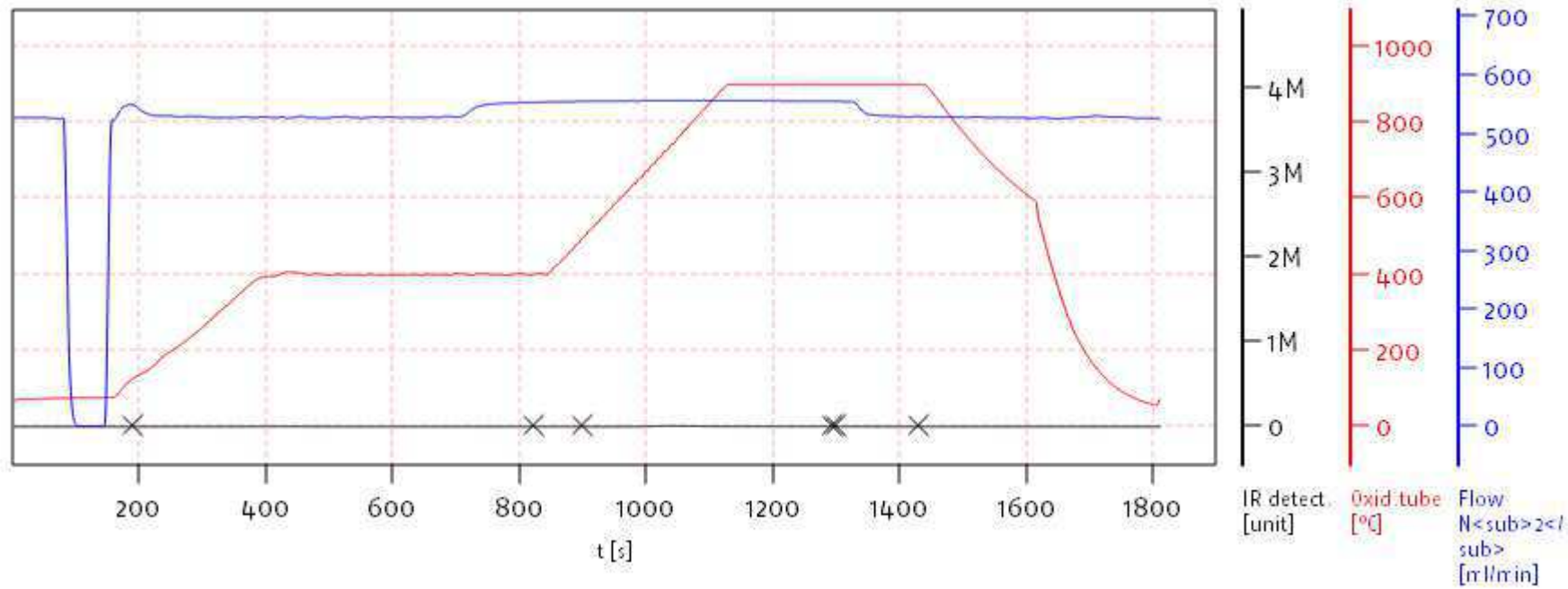
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
77	77	SKL0336-CCB6	508.40		CARBON	12/30/2022 5:09 AM	bl	0.000	9 608	0.004	0.000	3 866	39 806	0.000	0.004	0.9774	1.0000



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Serial No: 0300.181017
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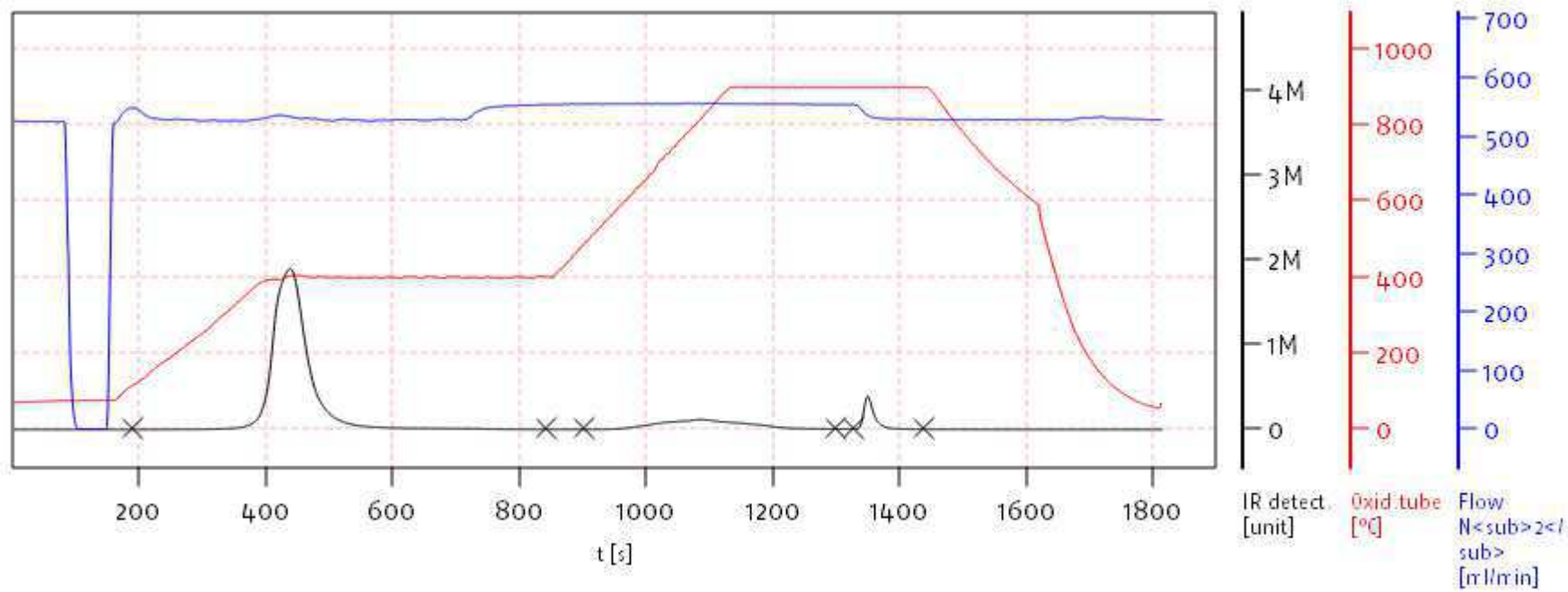
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
78	78	BKL0599-DUP2	538.20		CARBON	12/30/2022 5:39 AM	bl	1.340	4 525 617	1.540	0.075	287 997	721 652	1.265	0.200	0.9774	1.0000



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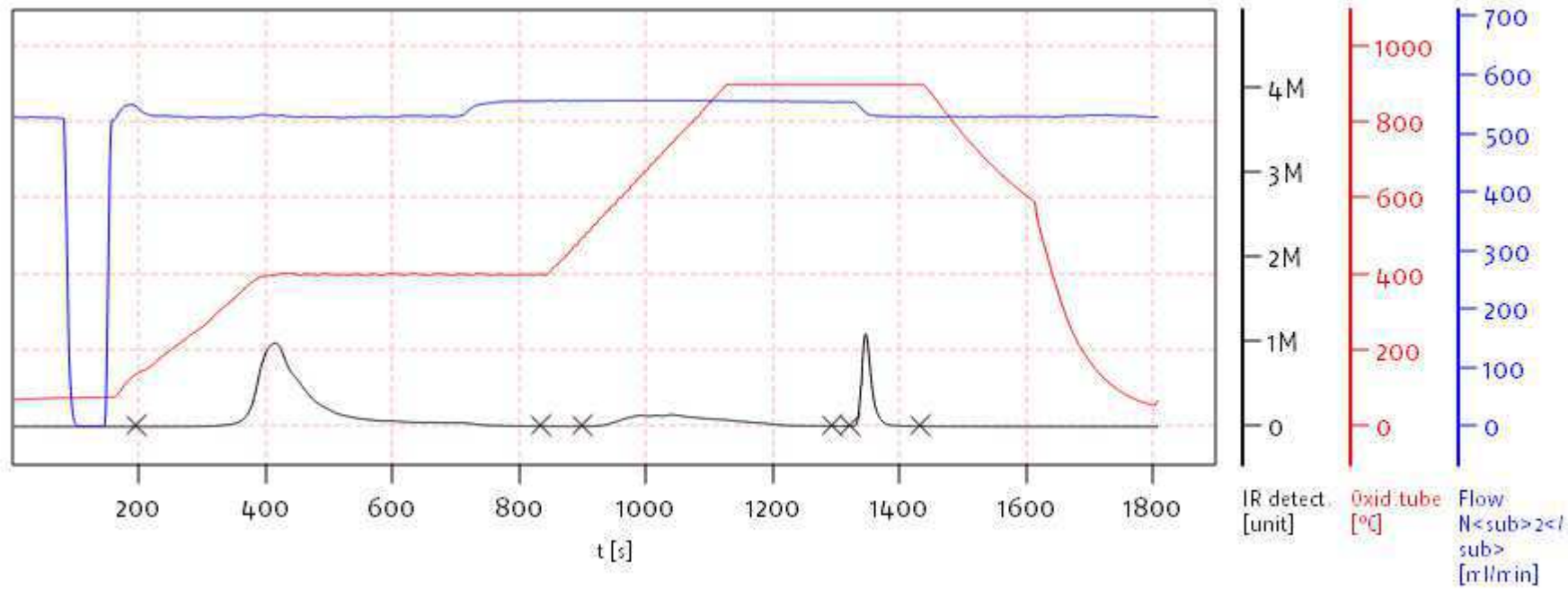
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
79	79	BKL0599-DUP3	512.60		CARBON	12/30/2022 6:10 AM	bl	1.239	3 475 726	1.518	0.221	758 207	951 296	1.018	0.279	0.9774	1.0000



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Serial No: 0300.181017
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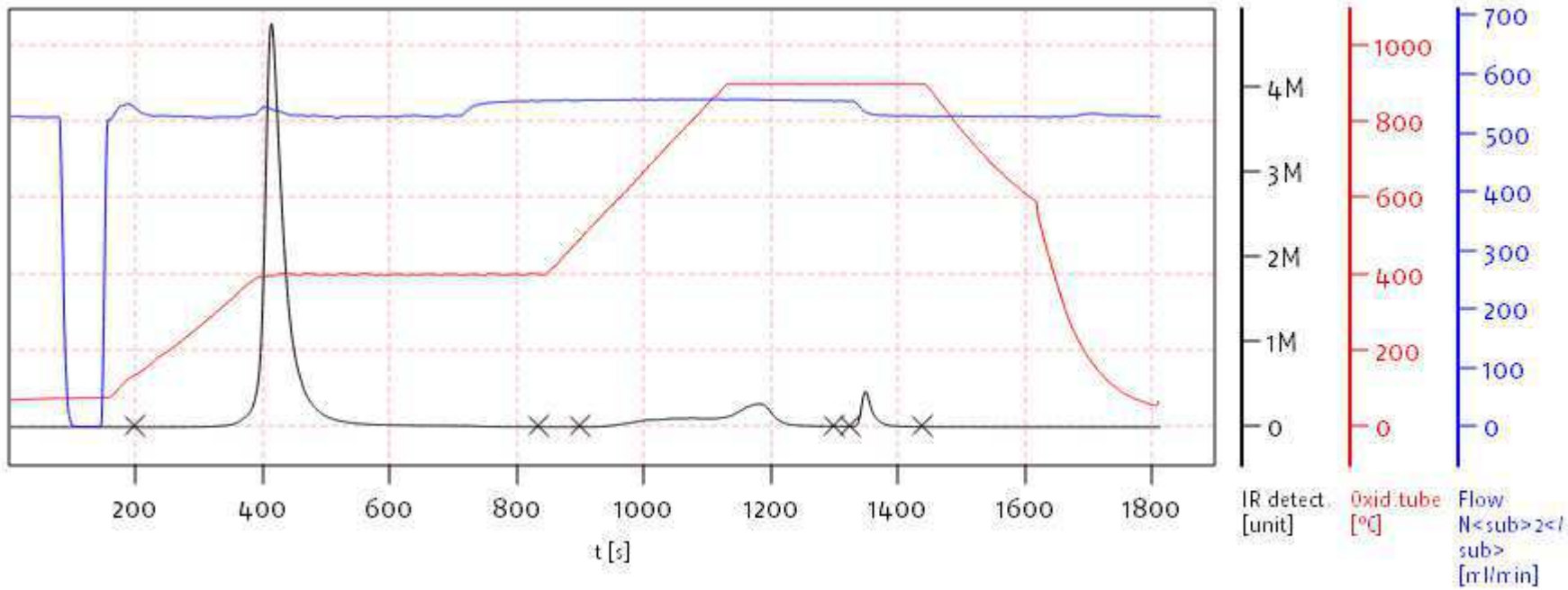
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
80	80	BKL0599-MS2	530.50	0.0074	CARBON	12/30/2022 6:40 AM	bl	2.009	6 762 198	2.370	0.088	327 572	1 263 888	1.921	0.361	0.9774	1.0000



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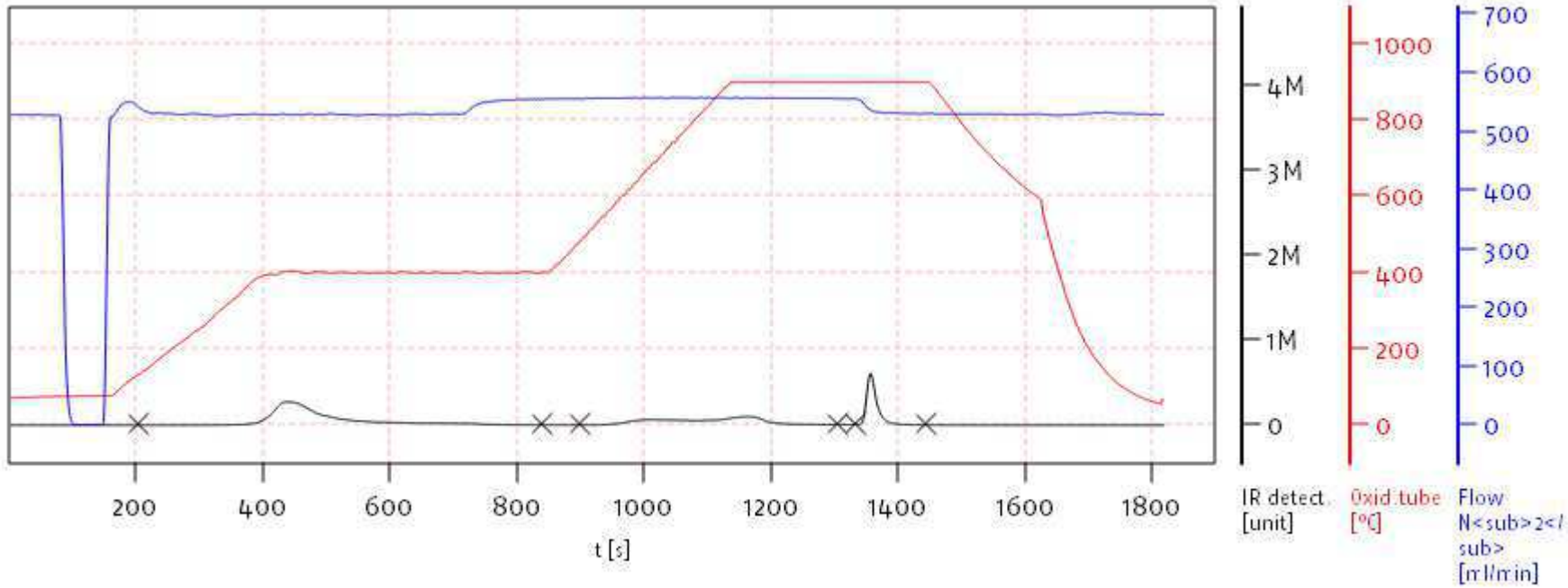
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
81	81	22L0492-18	500.40		CARBON	12/30/2022 7:11 AM	bl	0.448	1 096 735	0.635	0.125	429 558	631 029	0.324	0.187	0.9774	1.0000



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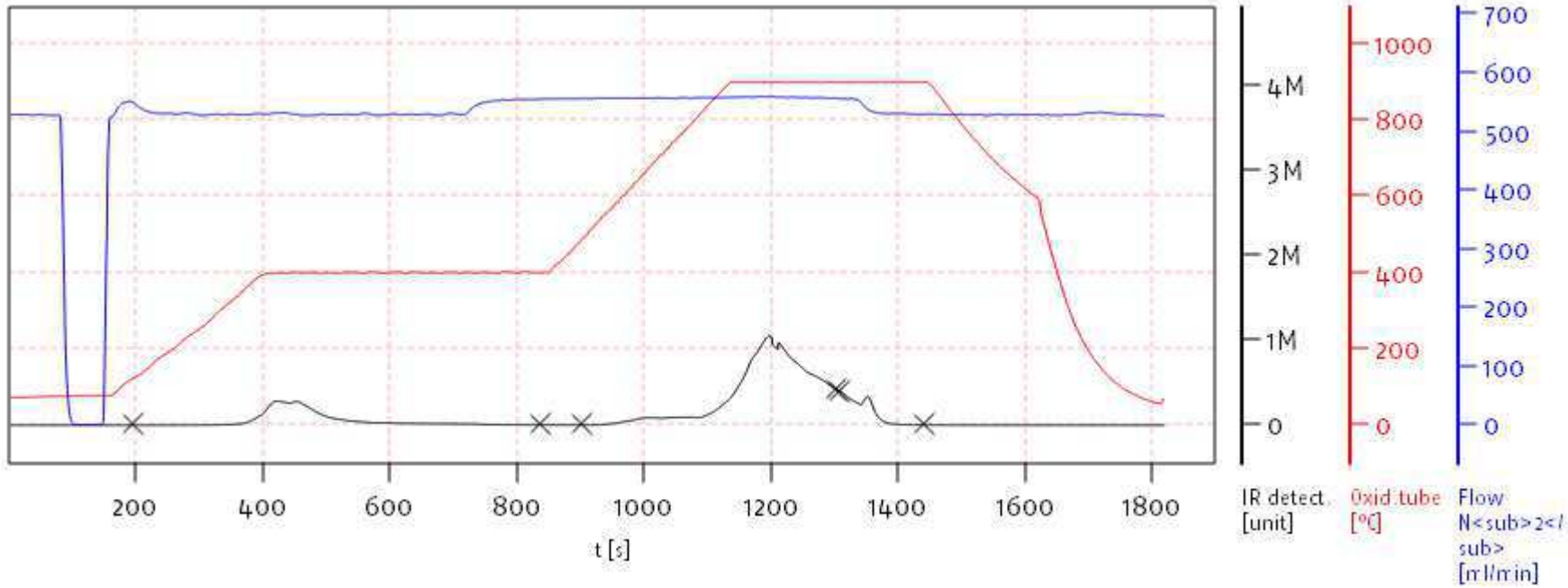
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
82	82	22K0328-20RE1	542.00		CARBON	12/30/2022 7:42 AM	bl	0.526	1 230 274	1.984	0.190	690 477	5 131 194	0.336	1.458	0.9774	1.0000



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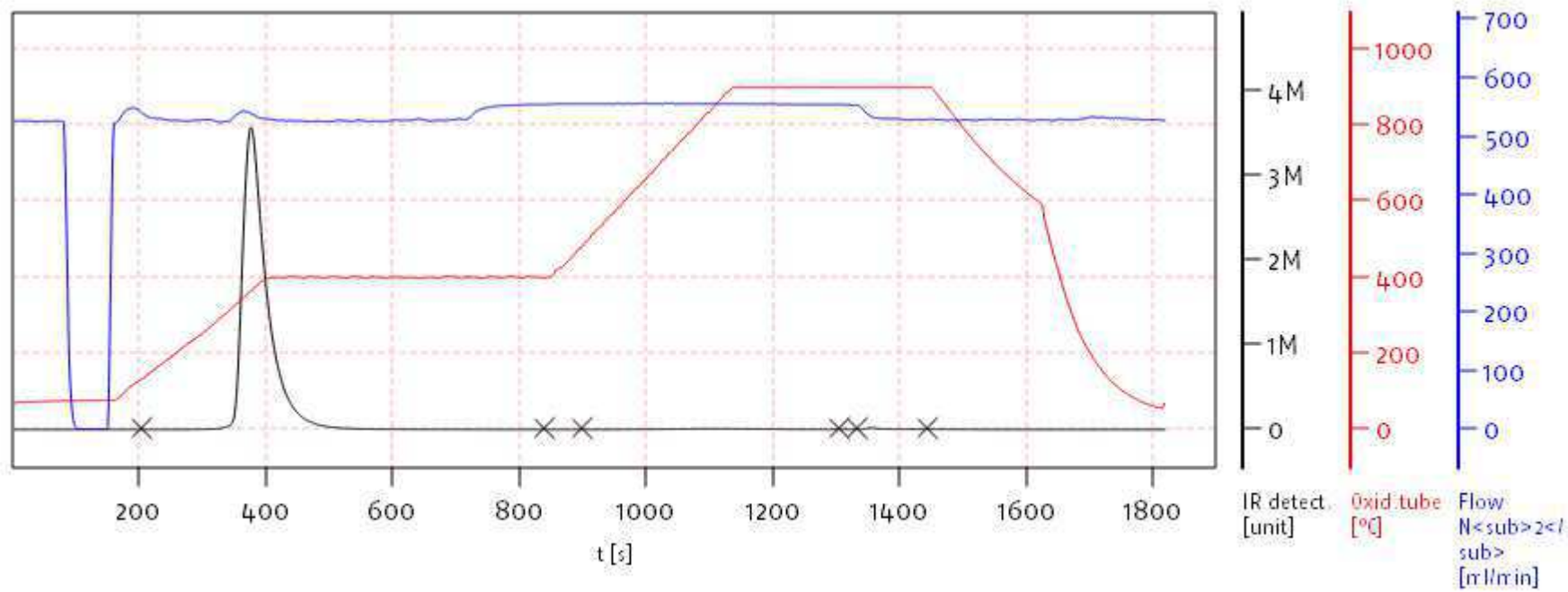
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
83	83	22K0447-01RE1	209.80		CARBON	12/30/2022 8:12 AM	bl	4.260	5 933 259	4.288	0.000	26 832	63 908	4.260	0.028	0.9774	1.0000



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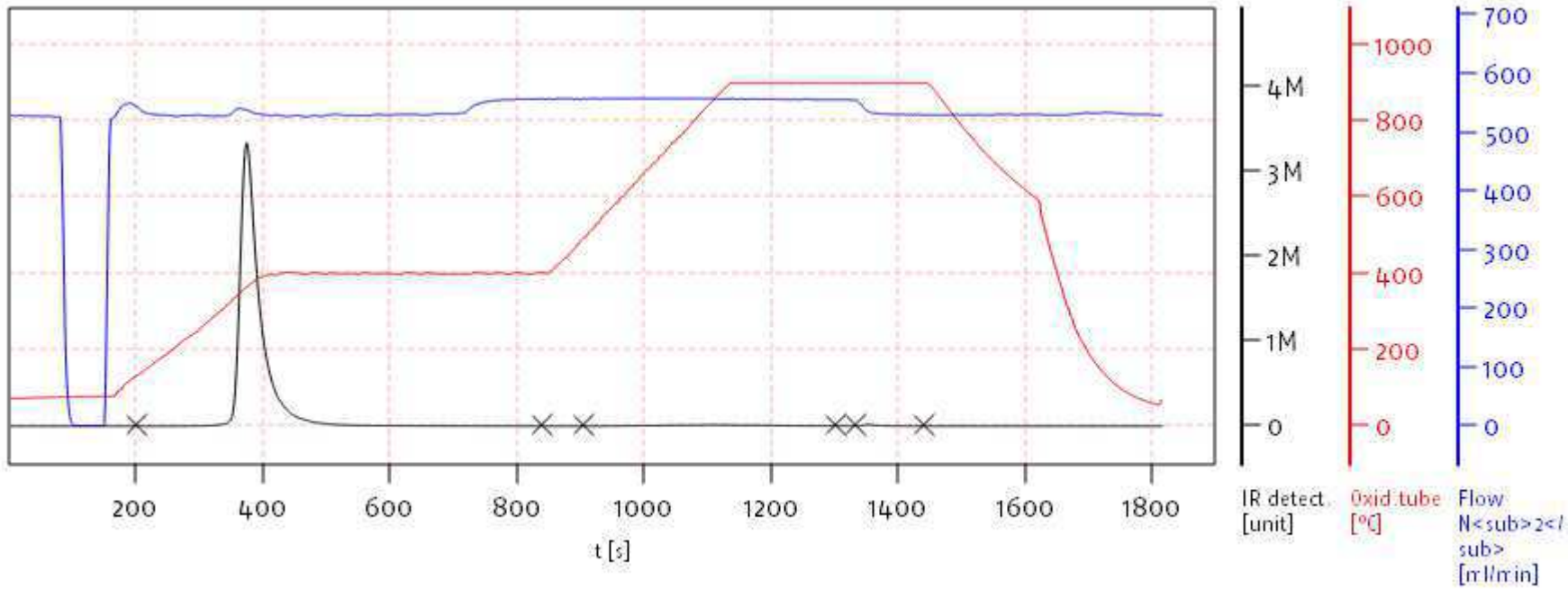
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
84	84	22K0447-02RE1	194.10		CARBON	12/30/2022 8:43 AM	bl	3.497	4 512 574	3.560	0.000	19 897	105 295	3.497	0.063	0.9774	1.0000



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Serial No: 0300.181017
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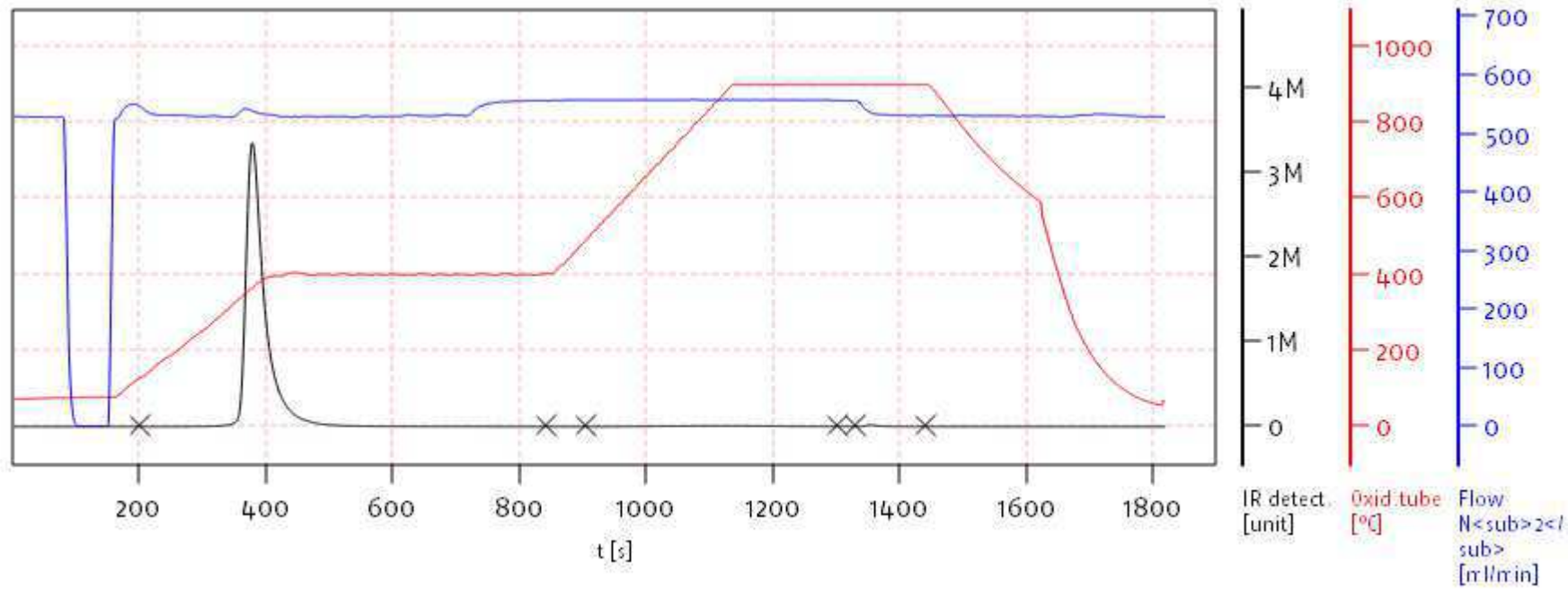
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
85	85	22L0137-17RE1	213.20		CARBON	12/30/2022 9:14 AM	bl	3.048	4 320 825	3.080	0.000	17 875	70 526	3.048	0.032	0.9774	1.0000



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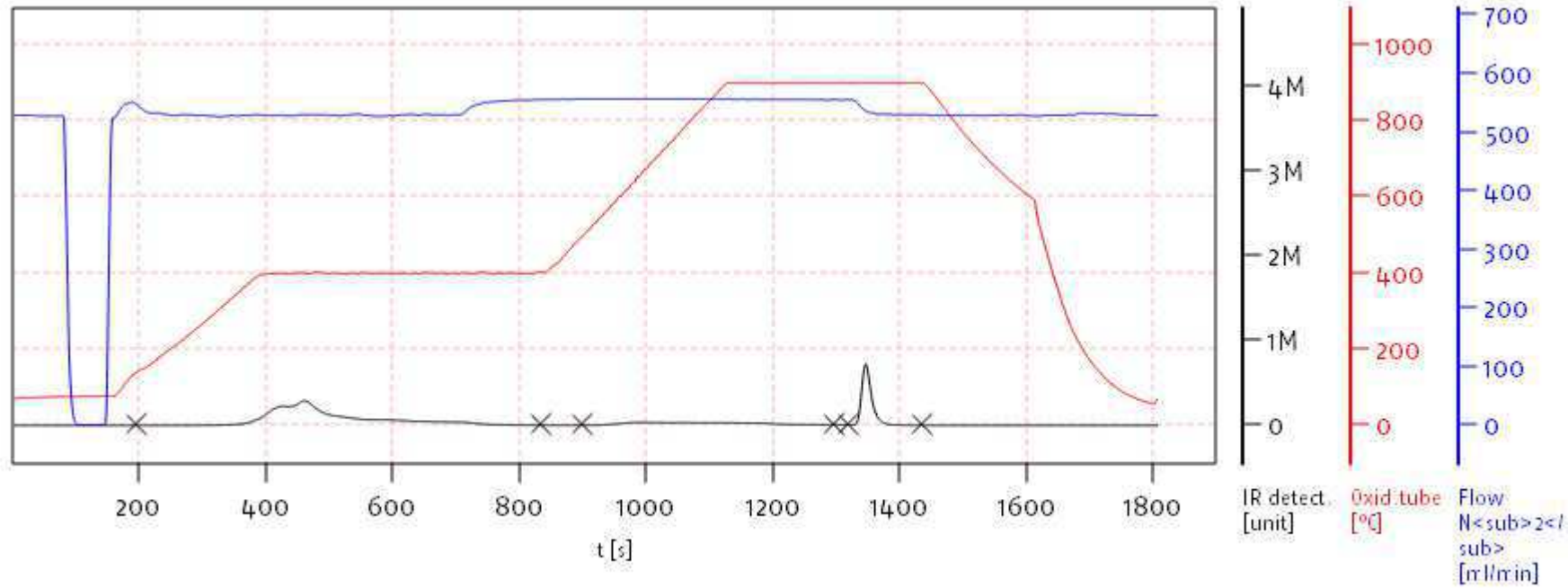
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
86	86	BKL0503-DUP2	503.30		CARBON	12/30/2022 9:44 AM	bl	0.573	1 451 063	0.664	0.144	495 993	323 969	0.428	0.091	0.9774	1.0000



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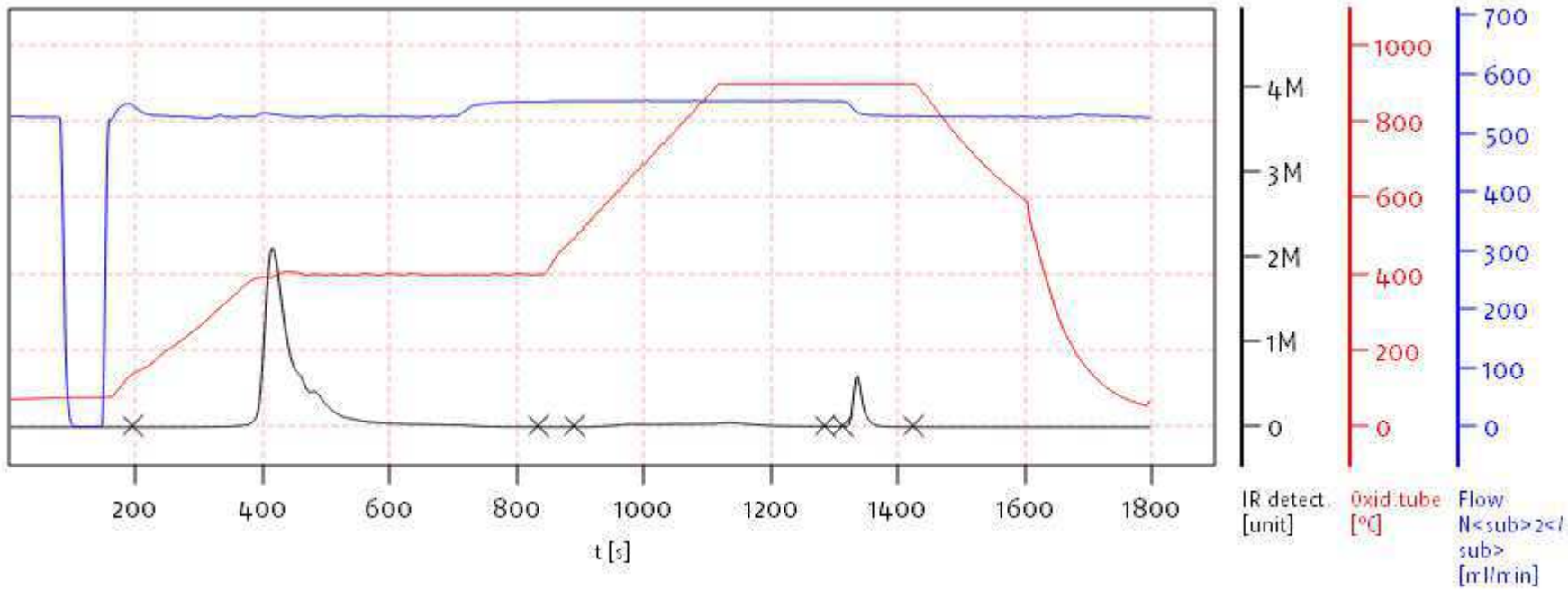
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
87	87	BKL0503-MS2	511.80	0.0081	CARBON	12/30/2022 10:15 AM	bl	1.378	4 302 208	1.483	0.114	402 234	375 823	1.264	0.106	0.9774	1.0000



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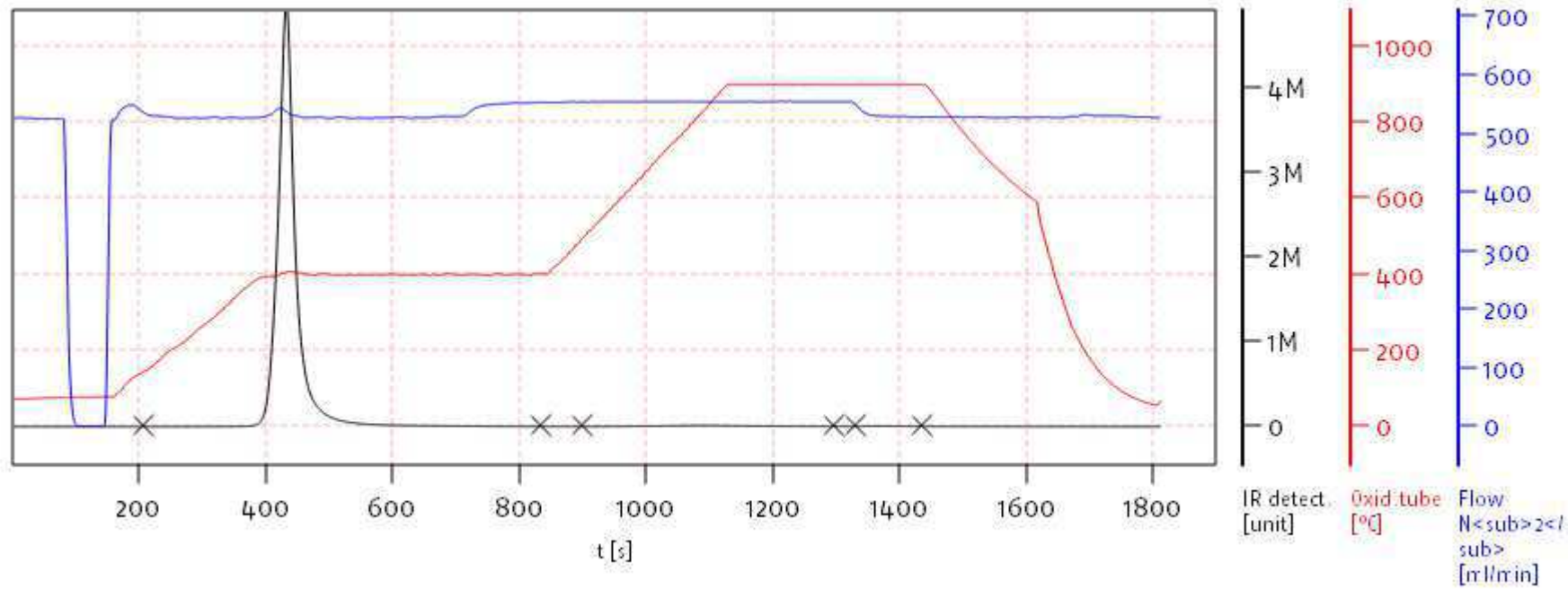
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
88	88	SKL0336-CCV7	19.80		CARBON	12/30/2022 10:45 AM	bl	46.118	6 061 556	46.639	0.000	19 488	93 189	46.118	0.521	0.9774	1.0000



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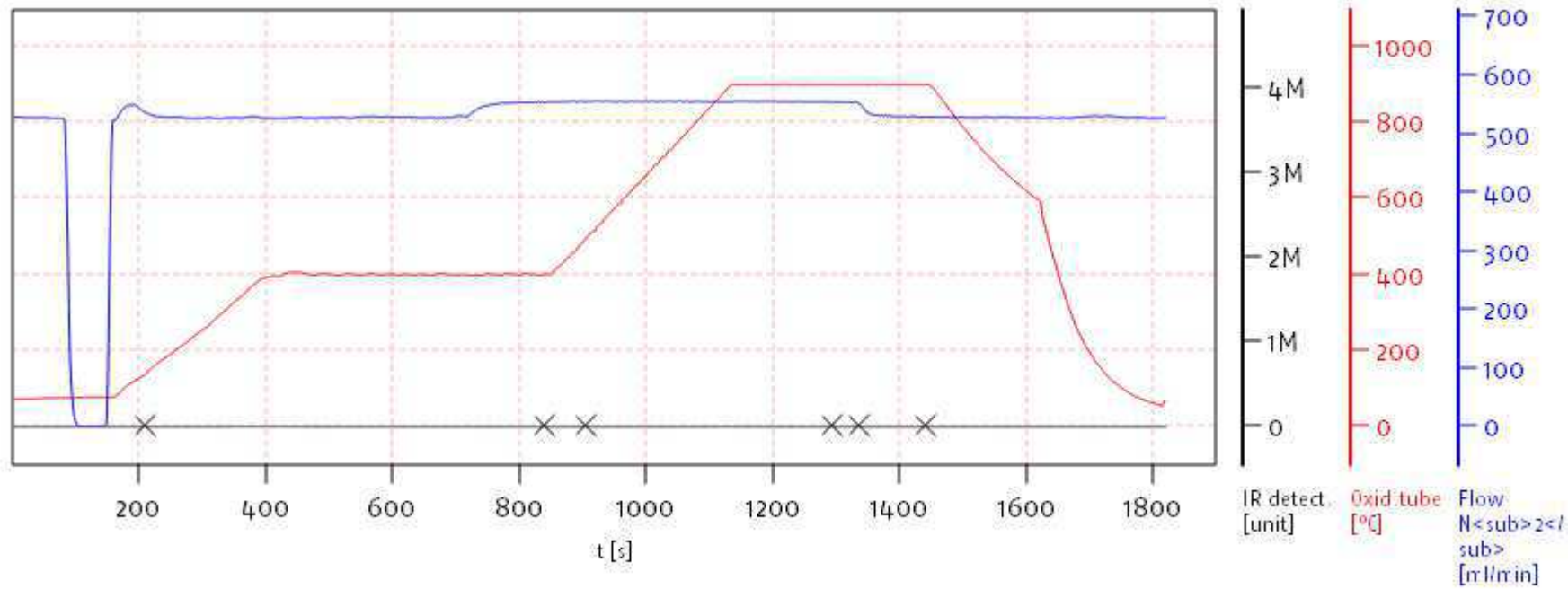
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
89	89	SKL0336-CCB7	527.20		CARBON	12/30/2022 11:16 AM	bl,C2u	0.000	9 254	0.000	0.000	702	4 532	0.000	0.000	0.9774	1.0000



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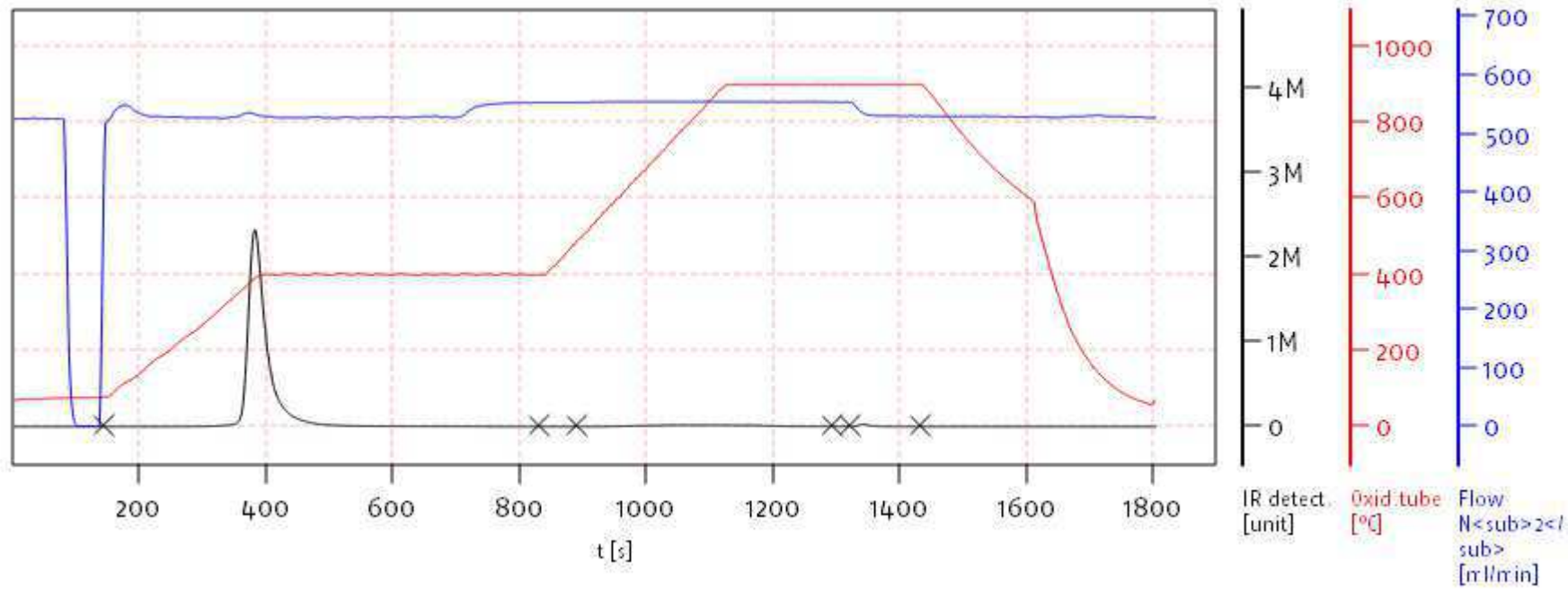
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
90	1	22L0246-32RE1	201.00		CARBON	12/30/2022 11:47 AM	bl	2.232	2 991 164	2.320	0.000	22 517	141 451	2.232	0.089	0.9774	1.0000



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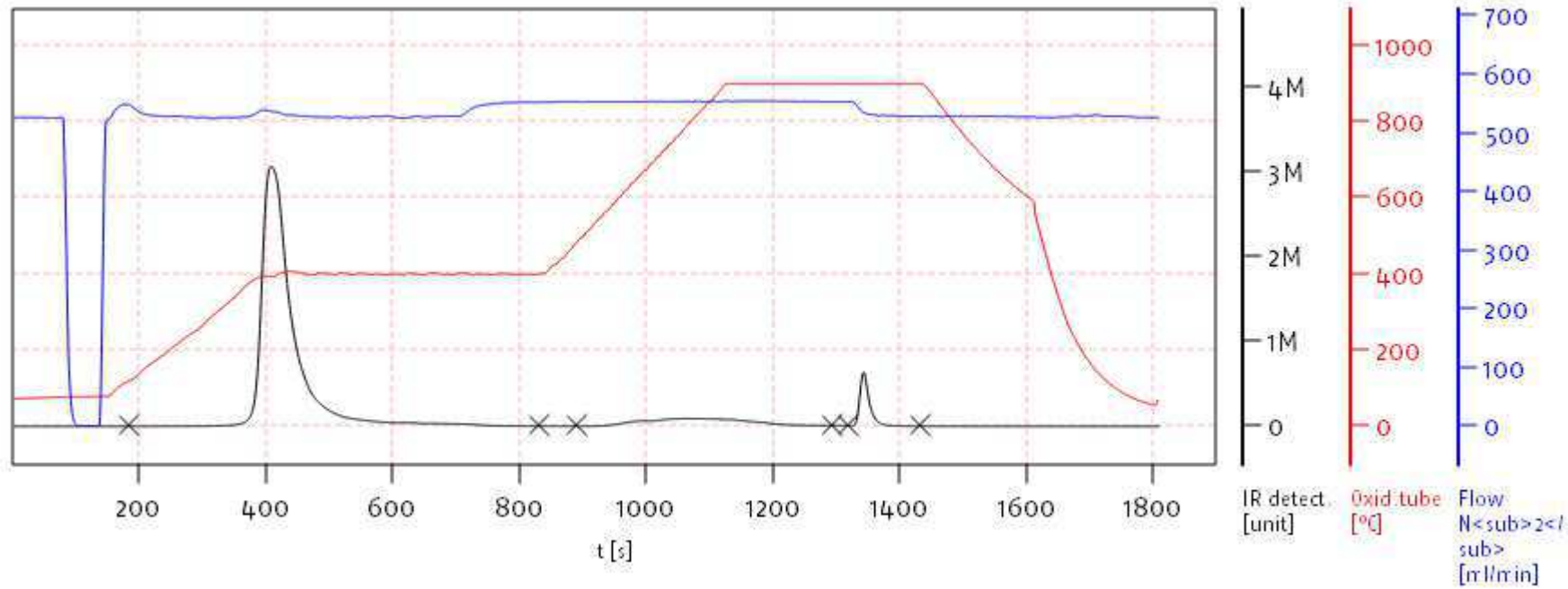
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
91	2	BKL0385-MS2	508.50	0.0084	CARBON	12/30/2022 12:17 PM	bl	2.025	6 424 375	2.236	0.122	425 995	719 774	1.904	0.211	0.9774	1.0000



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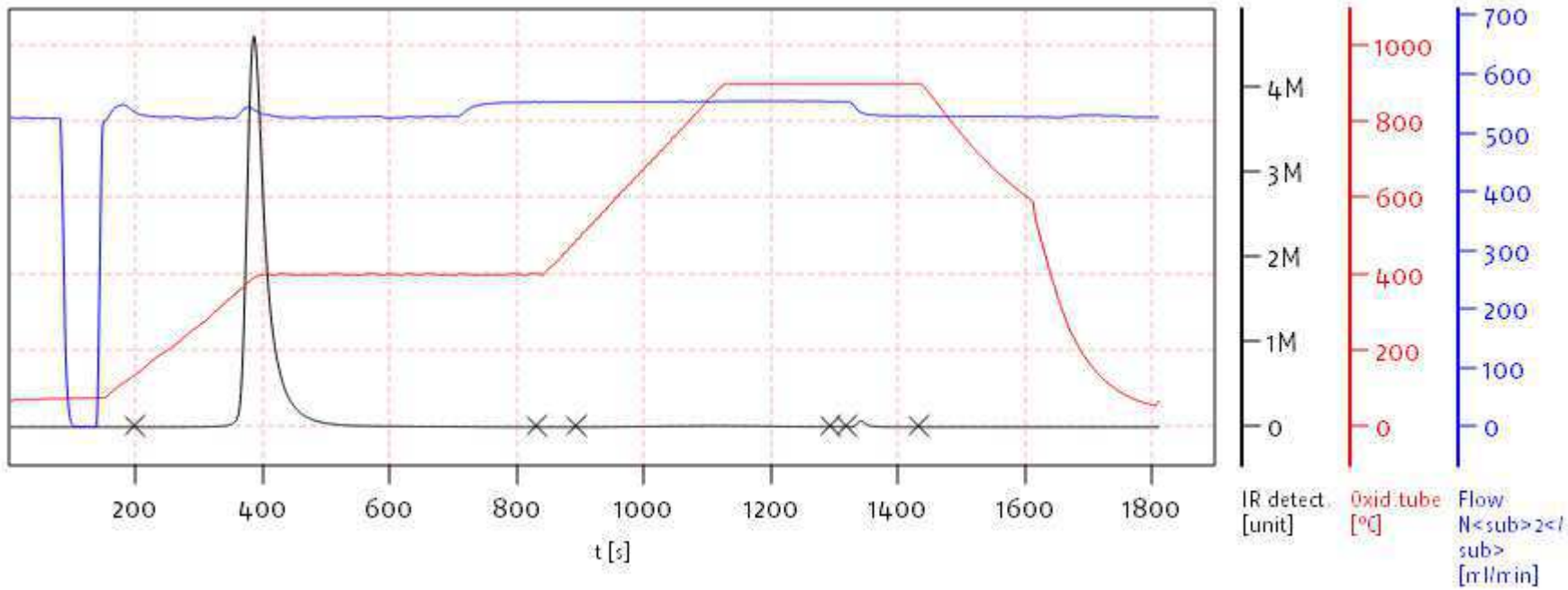
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
92	3	BKL0300-MS2	203.00	0.0085	CARBON	12/30/2022 12:48 PM	bl	4.684	6 287 310	4.749	0.017	49 399	111 420	4.666	0.065	0.9774	1.0000



Name:

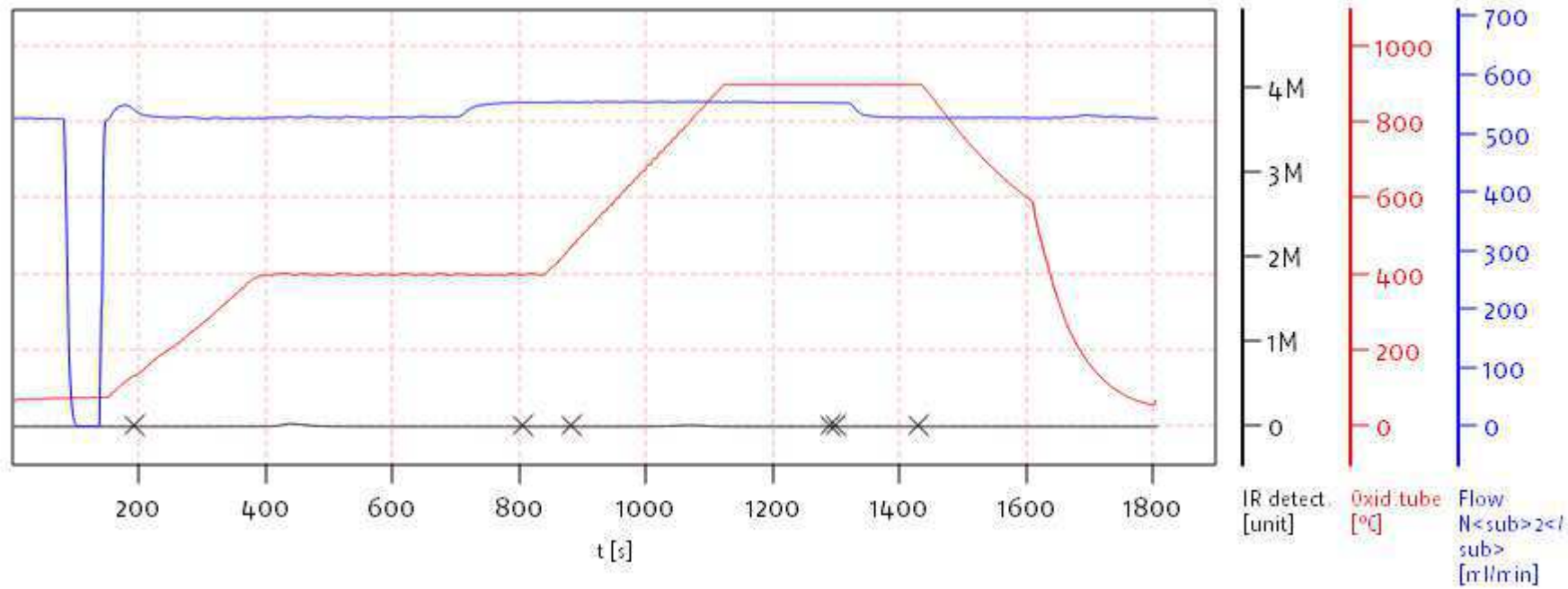
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
93	4	BKL0650-MRL1	505.40		CARBON	12/30/2022 1:18 PM	bl,C2u	0.013	69 320	0.016	0.000	612	36 409	0.013	0.003	0.9774	1.0000



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Access: soliTOC superuser

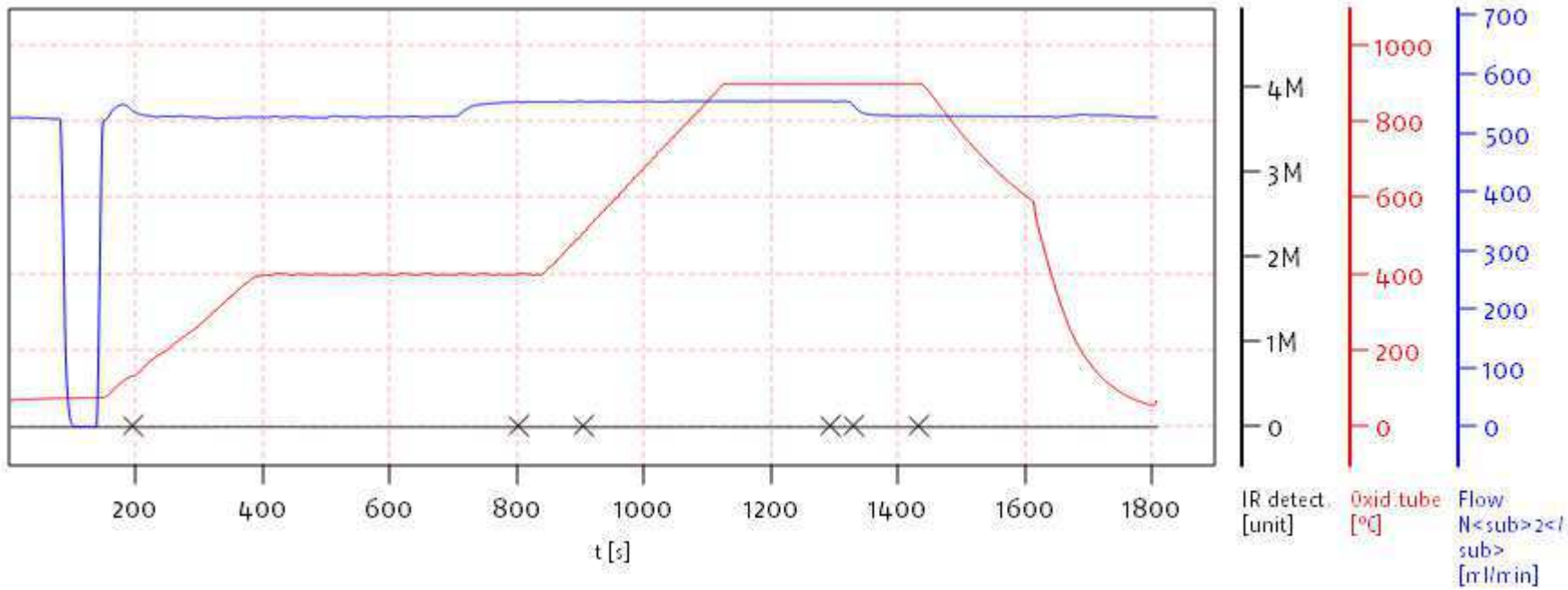
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
94	5	BKL0650-BLK1	516.90		CARBON	12/30/2022 1:49 PM	bl,C2u	0.000	10 665	0.000	0.000	474	4 779	0.000	0.000	0.9774	1.0000



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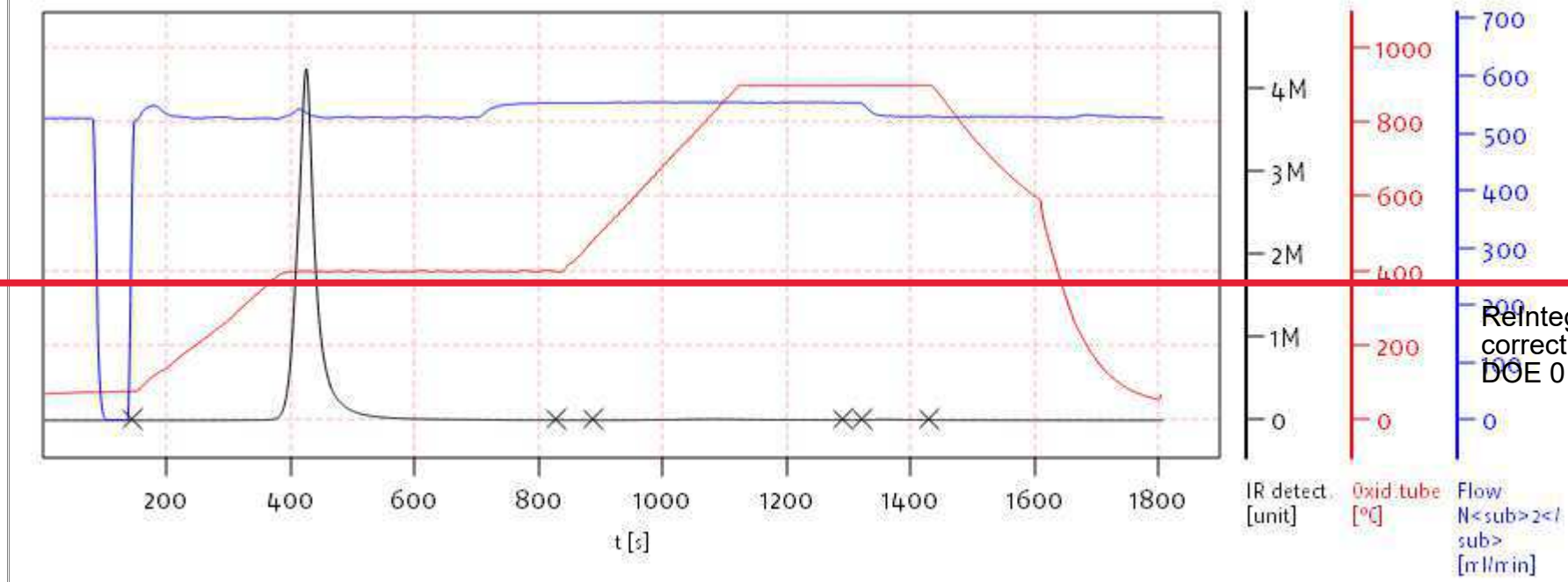
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
95	6	BKL0650-BS1	191.00		CARBON	12/30/2022 2:19 PM	bl	4.508	5 715 005	4.570	0.001	28 228	103 151	4.506	0.062	0.9774	1.0000



Reintegrated with correct weight
DOE 01/03/23

Name:

Access: soliTOC superuser

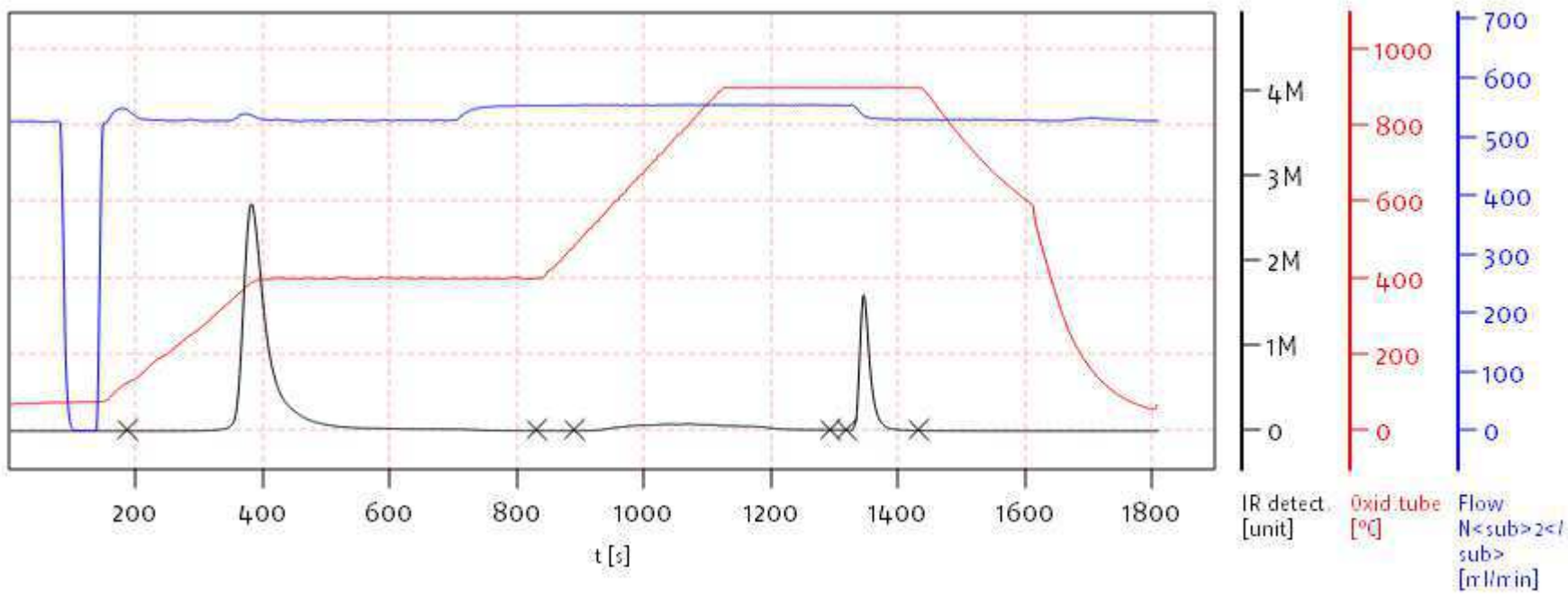
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
96	7	BKL0650-SRM1	285.30		CARBON	12/30/2022 2:50 PM	bl	3.042	4 609 625	3.402	0.612	1 154 220	688 728	2.431	0.359	0.9774	1.0000



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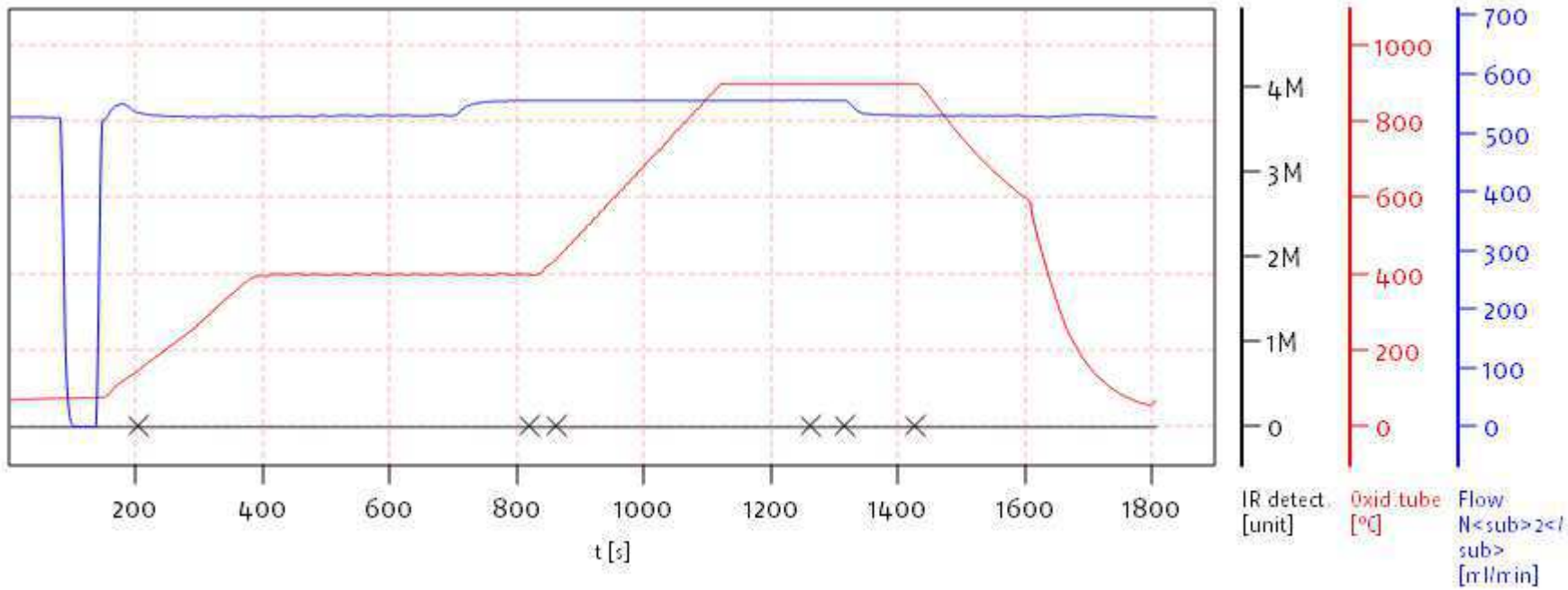
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
97	8	BLANK	1.00		CARBON	12/30/2022 3:20 PM	bl	0.000	4 983	0.000	0.000	560	822	0.000	0.000	0.9774	1.0000



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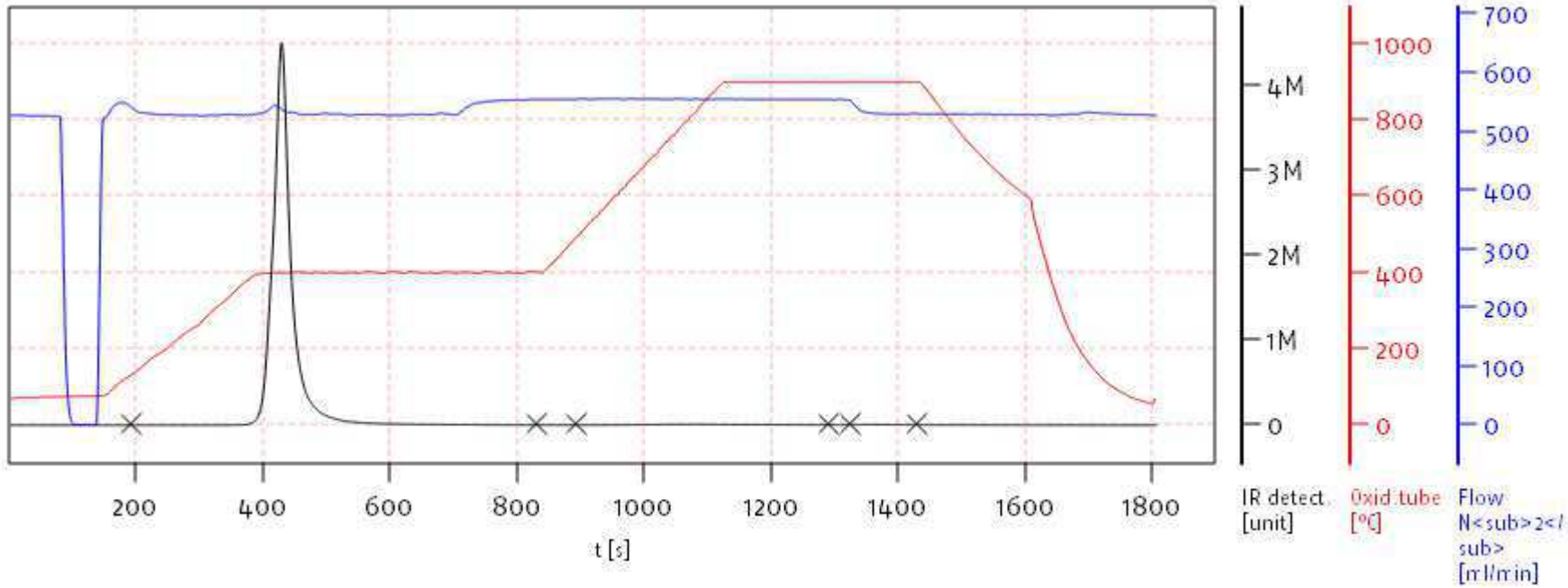
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
98	9	Dfactor	18.50		CARBON	12/30/2022 3:51 PM	bl	44.446	5 599 692	44.903	0.000	21 143	81 236	44.446	0.458	0.9531	1.0000



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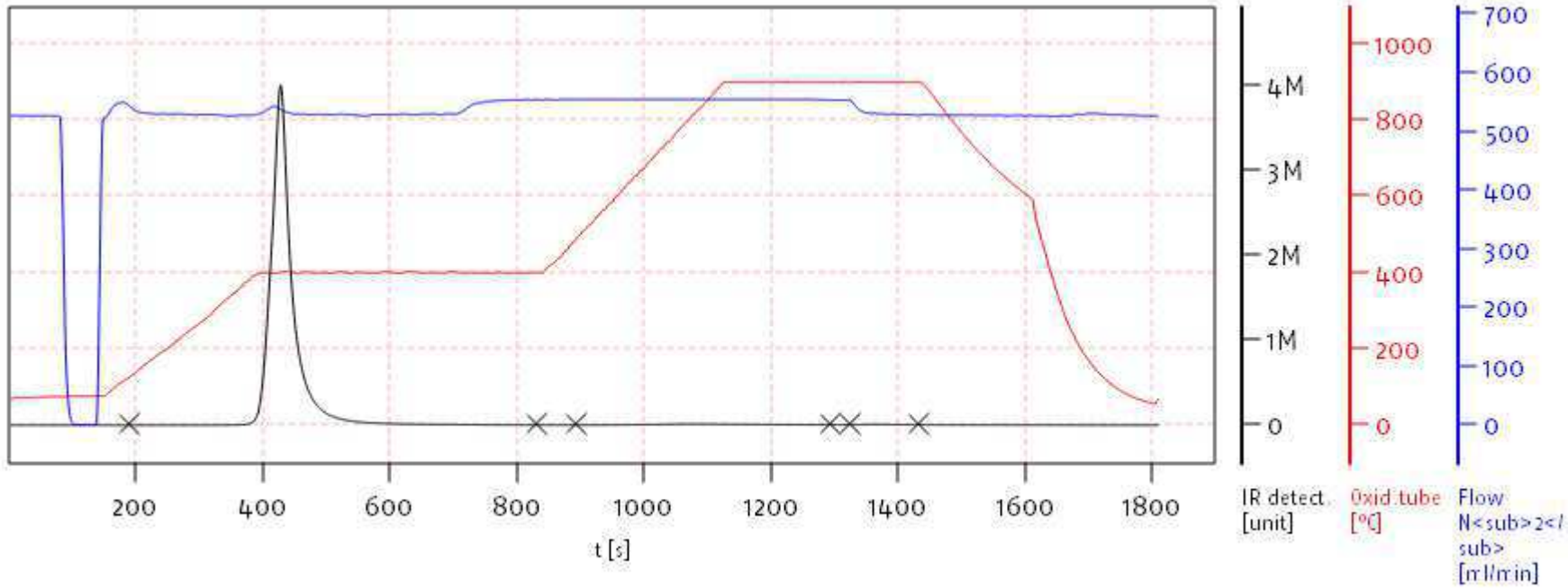
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
99	10	Dfactor	19.20		CARBON	12/30/2022 4:22 PM	bl	44.458	5 705 068	45.092	0.012	28 017	105 190	44.446	0.634	0.9708	1.0000



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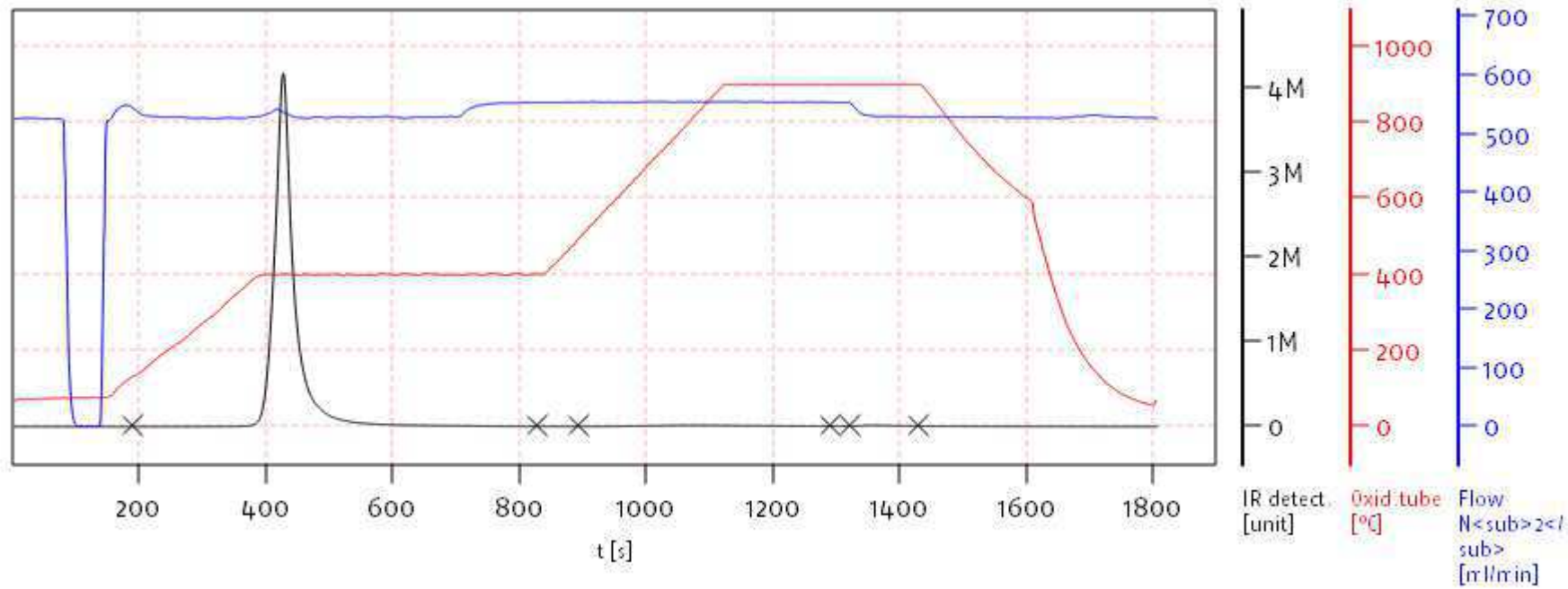
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
100	11	SKL0336-CCV8	19.00		CARBON	12/30/2022 4:52 PM	bl	43.776	5 599 287	44.606	0.102	39 002	128 357	43.675	0.830	0.9619	1.0000



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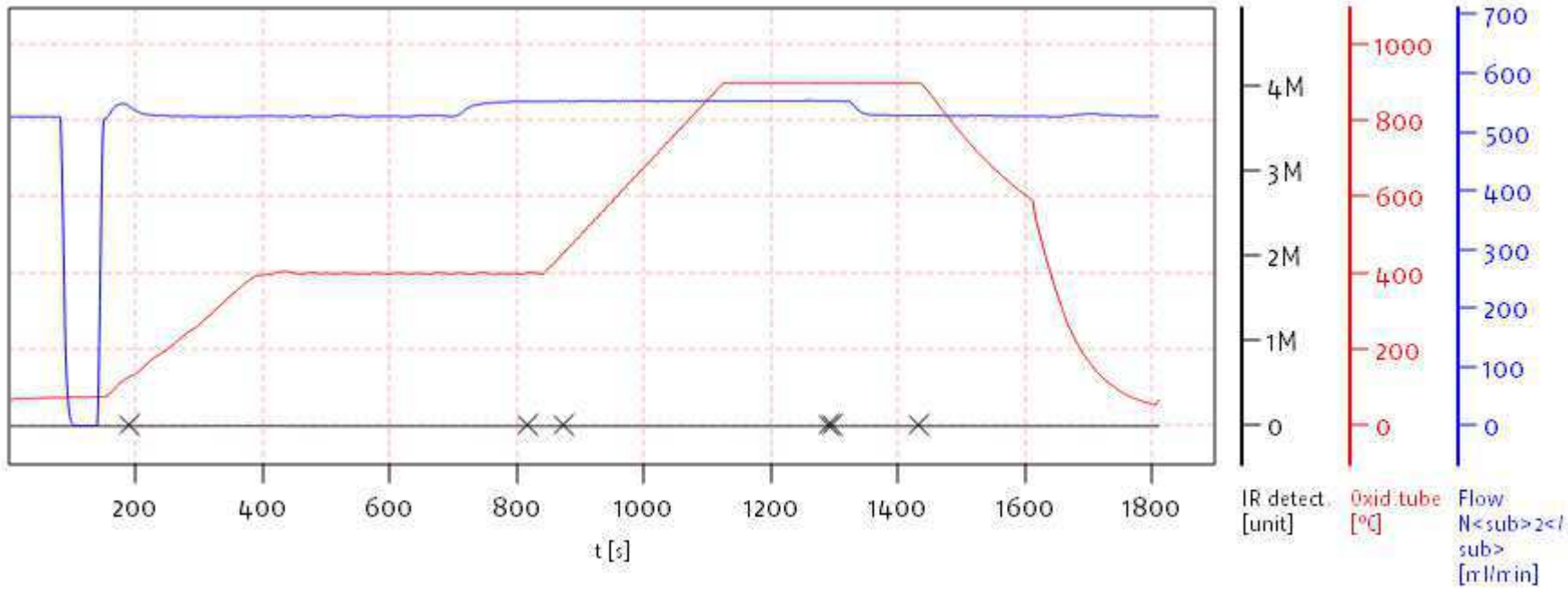
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
101	12	SKL0336-CCB8	508.00		CARBON	12/30/2022 5:23 PM	bl,C3u,C2u	0.000	10 601	0.000	0.000	1 270	233	0.000	0.000	0.9619	1.0000



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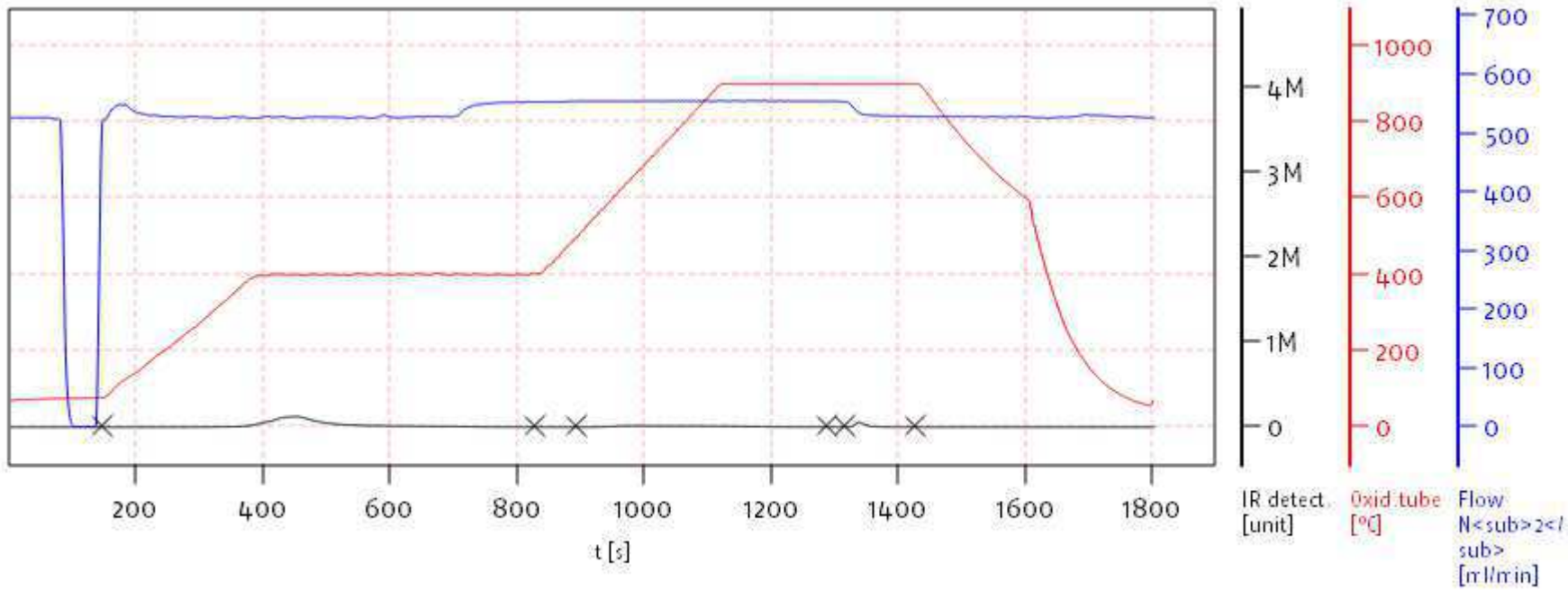
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
102	13	22L0329-01	518.20		CARBON	12/30/2022 5:53 PM	bl	0.150	531 470	0.177	0.005	42 849	116 986	0.145	0.027	0.9619	1.0000



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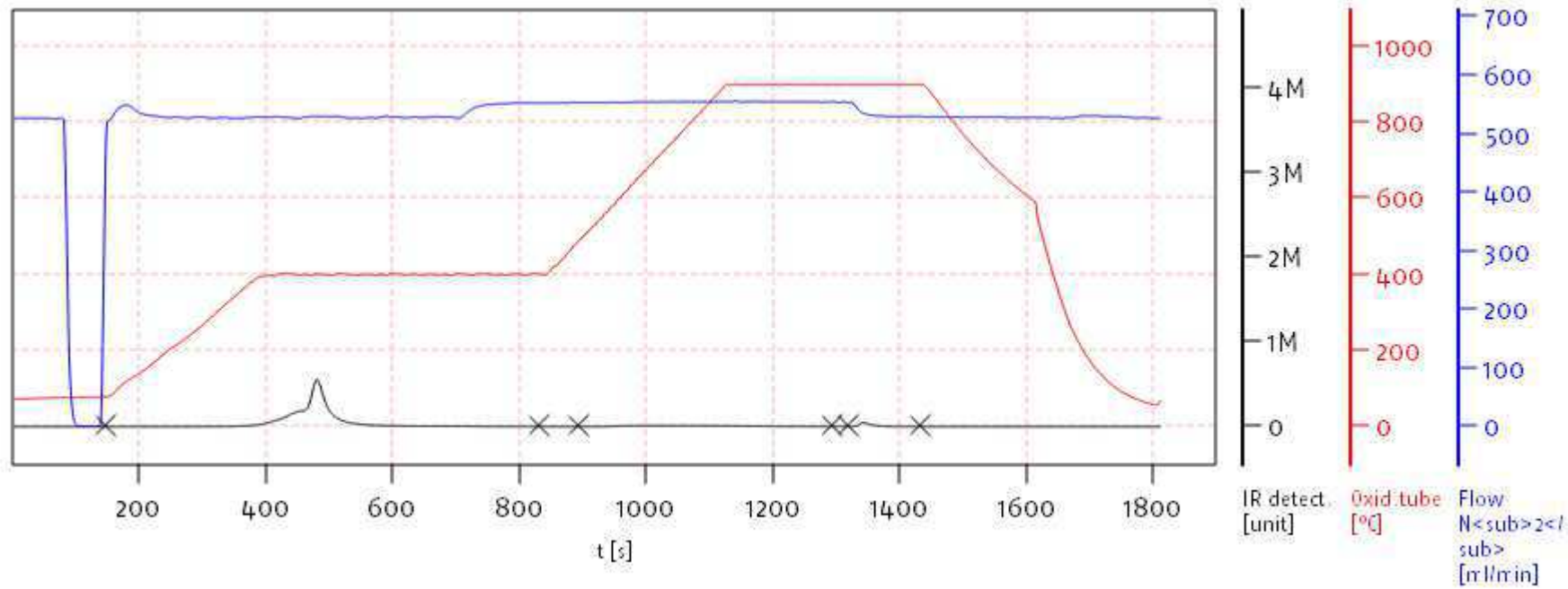
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
103	14	BKL0650-DUP1	513.70		CARBON	12/30/2022 6:24 PM	bl	0.297	1 034 967	0.317	0.004	41 051	94 719	0.292	0.021	0.9619	1.0000



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Balance: BAL3
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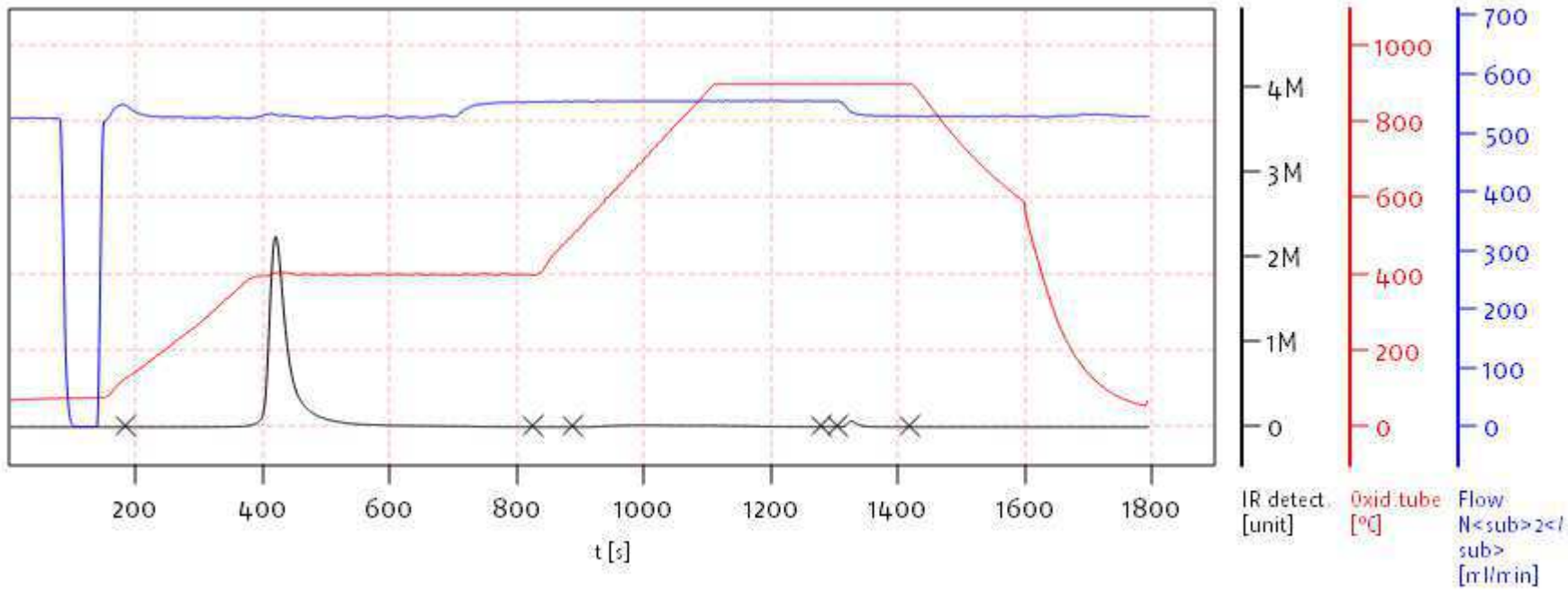
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
104	15	BKL0650-MS1	514.80	0.0084	CARBON	12/30/2022 6:54 PM	bl	0.881	3 045 474	0.926	0.008	52 341	174 645	0.873	0.045	0.9619	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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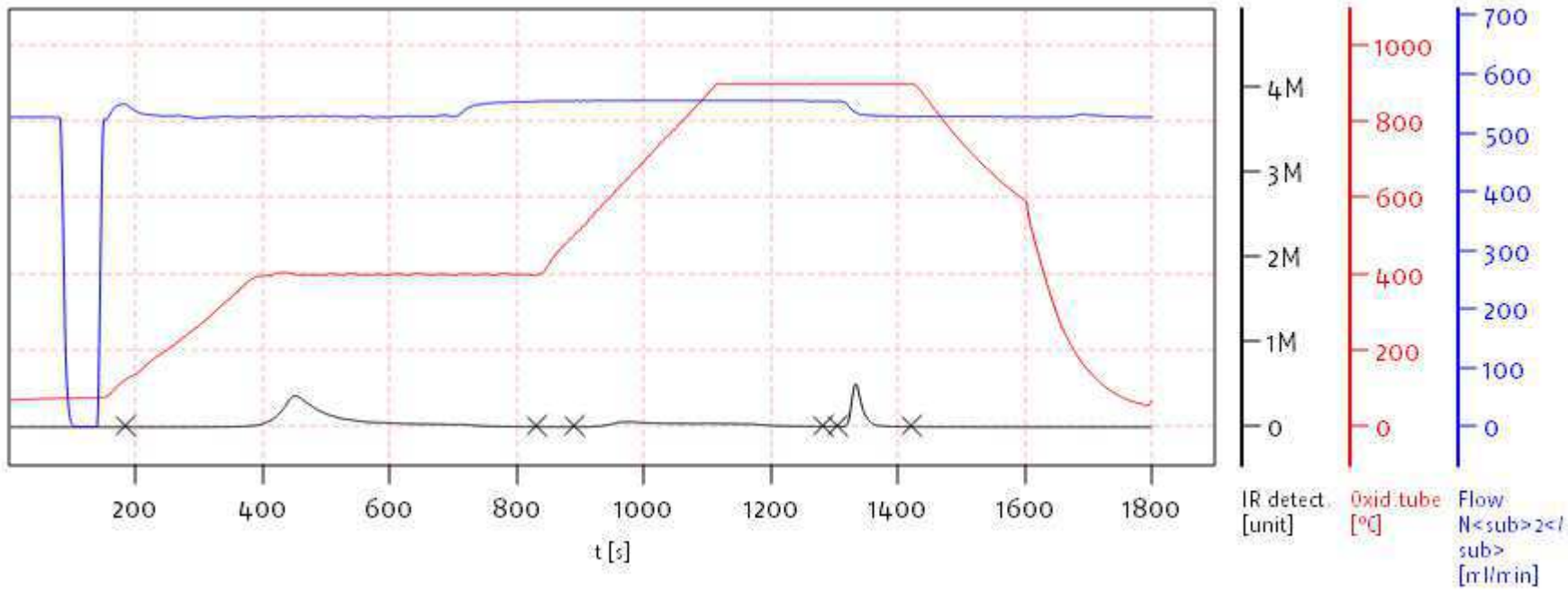
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
105	16	22L0329-02	515.60		CARBON	12/30/2022 7:24 PM	bl	0.494	1 362 305	0.623	0.108	386 919	454 739	0.386	0.129	0.9619	1.0000



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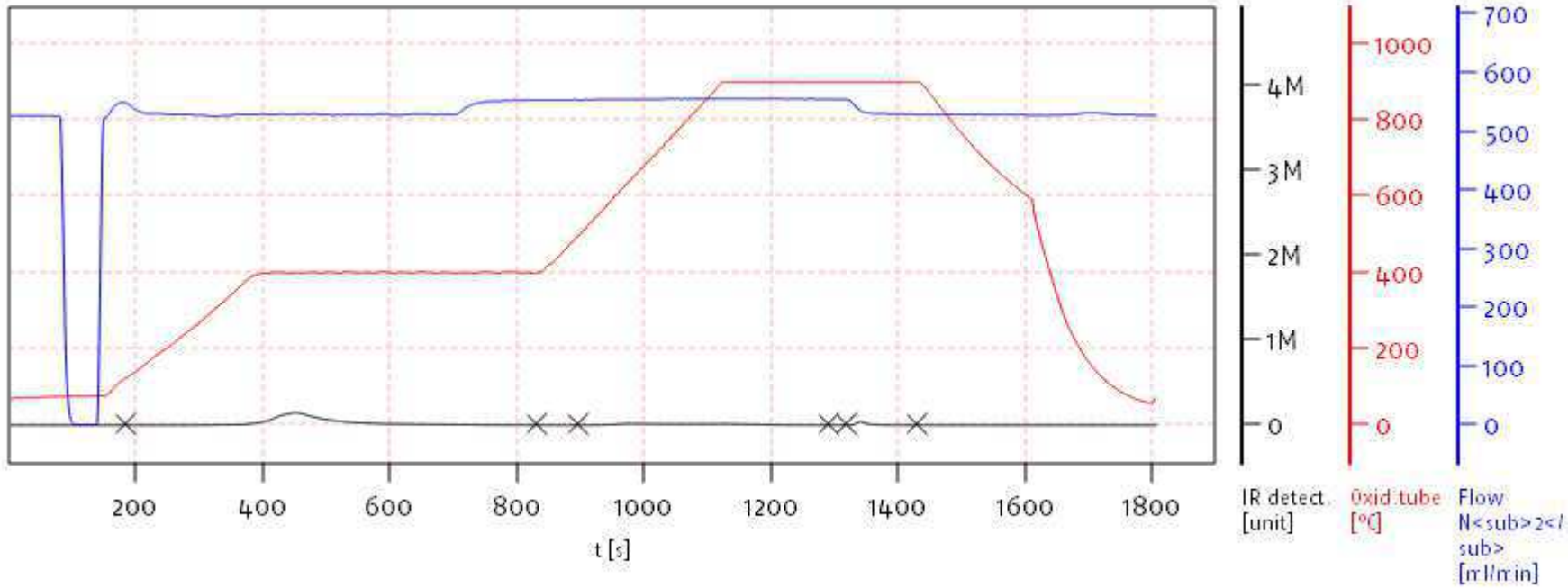
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
106	17	22L0329-03	524.60		CARBON	12/30/2022 7:55 PM	bl	0.165	603 459	0.195	0.002	32 020	127 095	0.164	0.030	0.9619	1.0000



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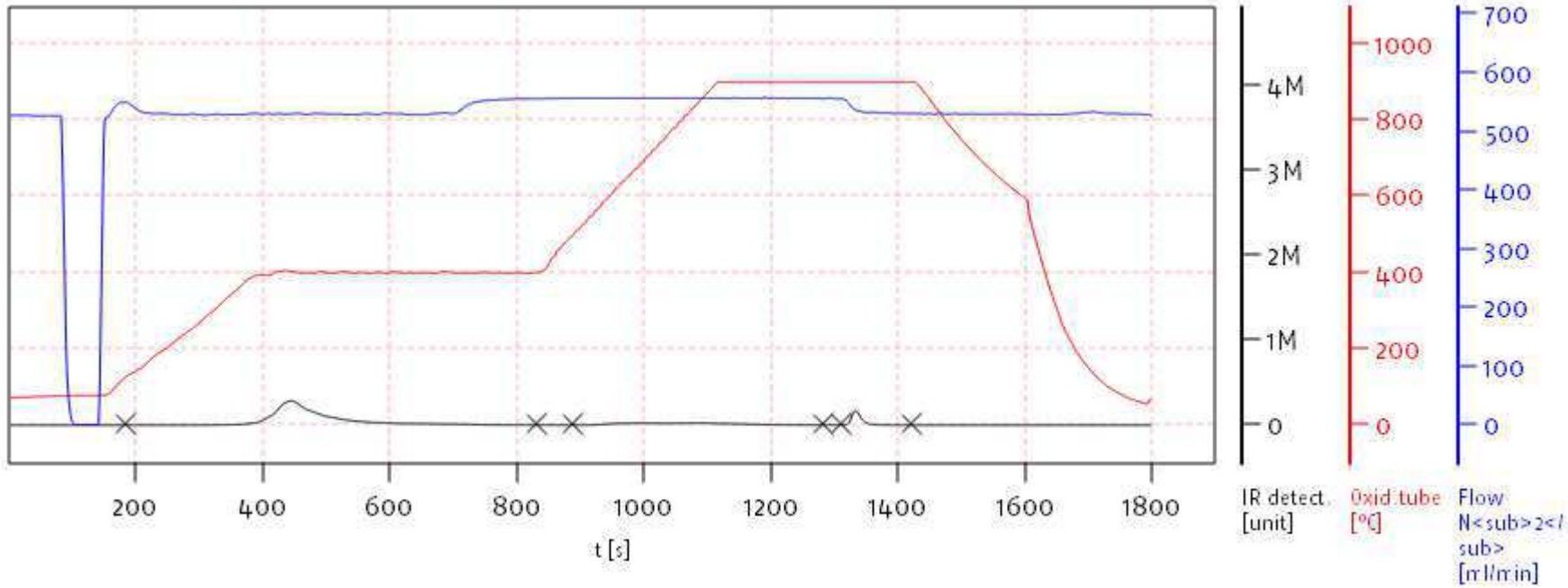
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
107	18	22L0329-04	508.00		CARBON	12/30/2022 8:25 PM	bl	0.315	1 008 067	0.367	0.027	114 928	198 185	0.288	0.052	0.9619	1.0000



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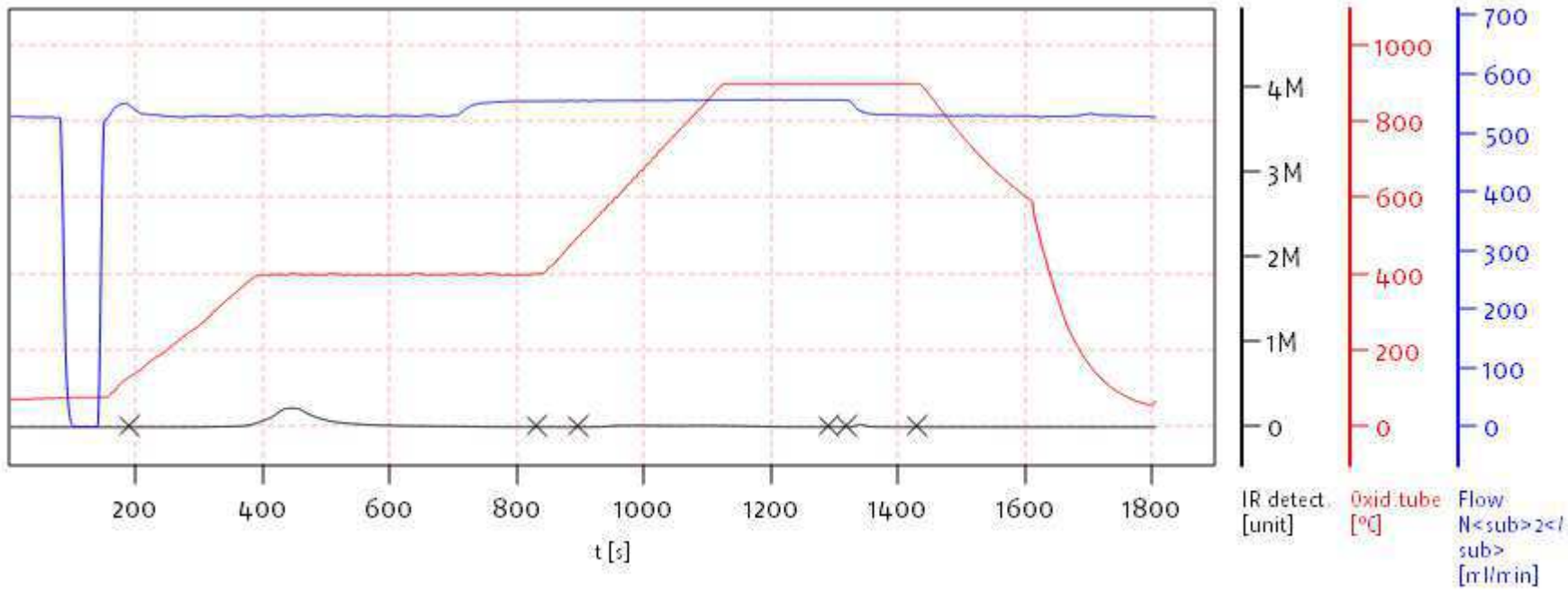
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
108	19	22L0329-05	528.60		CARBON	12/30/2022 8:56 PM	bl	0.236	863 536	0.272	0.000	21 883	149 709	0.236	0.036	0.9619	1.0000



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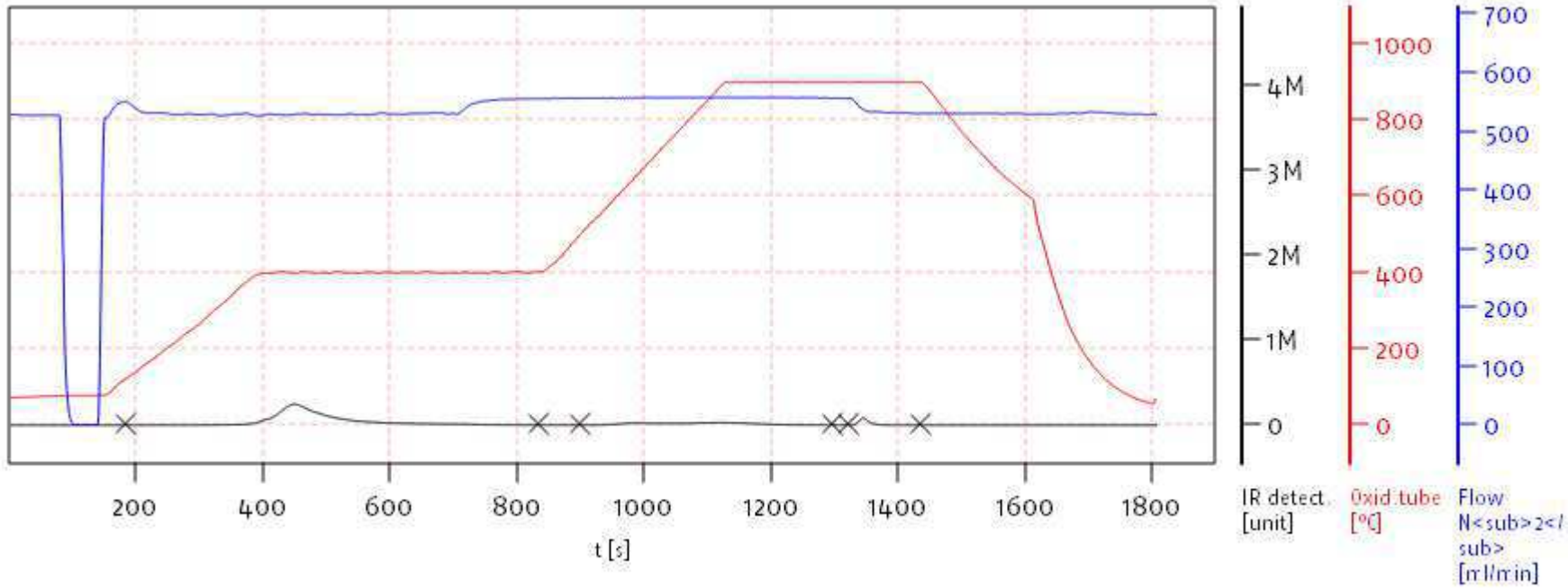
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
109	20	22L0329-06	613.90		CARBON	12/30/2022 9:26 PM	bl	0.233	954 400	0.283	0.008	57 736	223 398	0.225	0.050	0.9619	1.0000



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Balance: BAL3
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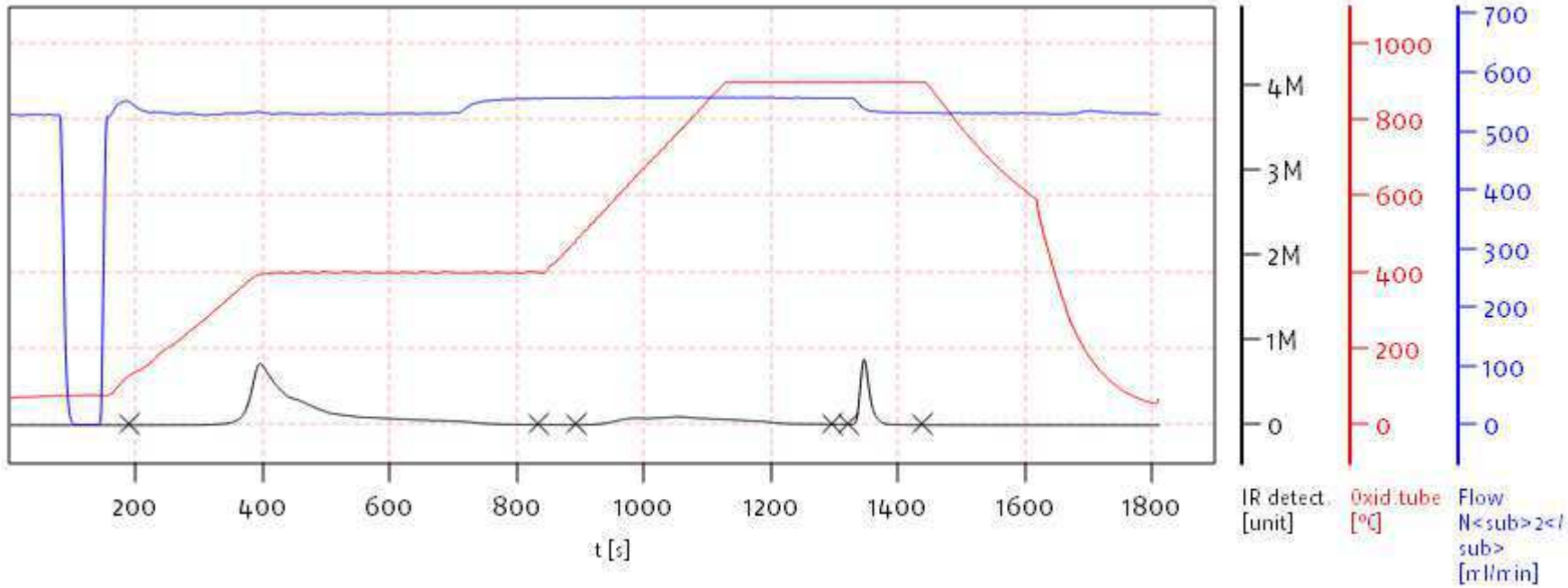
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
110	21	22L0329-07	534.50		CARBON	12/30/2022 9:57 PM	bl	0.866	2 621 611	1.078	0.143	518 883	760 664	0.723	0.213	0.9619	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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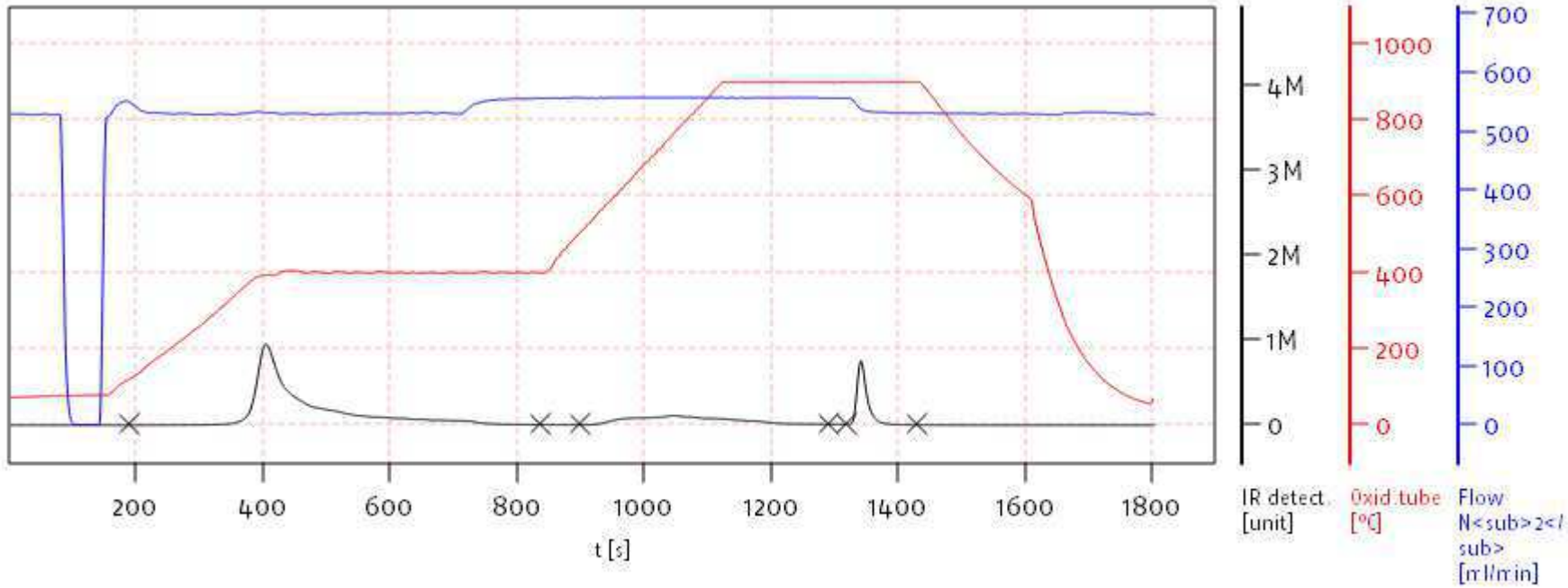
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
111	22	22L0329-08	546.20		CARBON	12/30/2022 10:27 PM	bl	0.927	2 902 928	1.147	0.142	528 790	805 202	0.784	0.221	0.9619	1.0000



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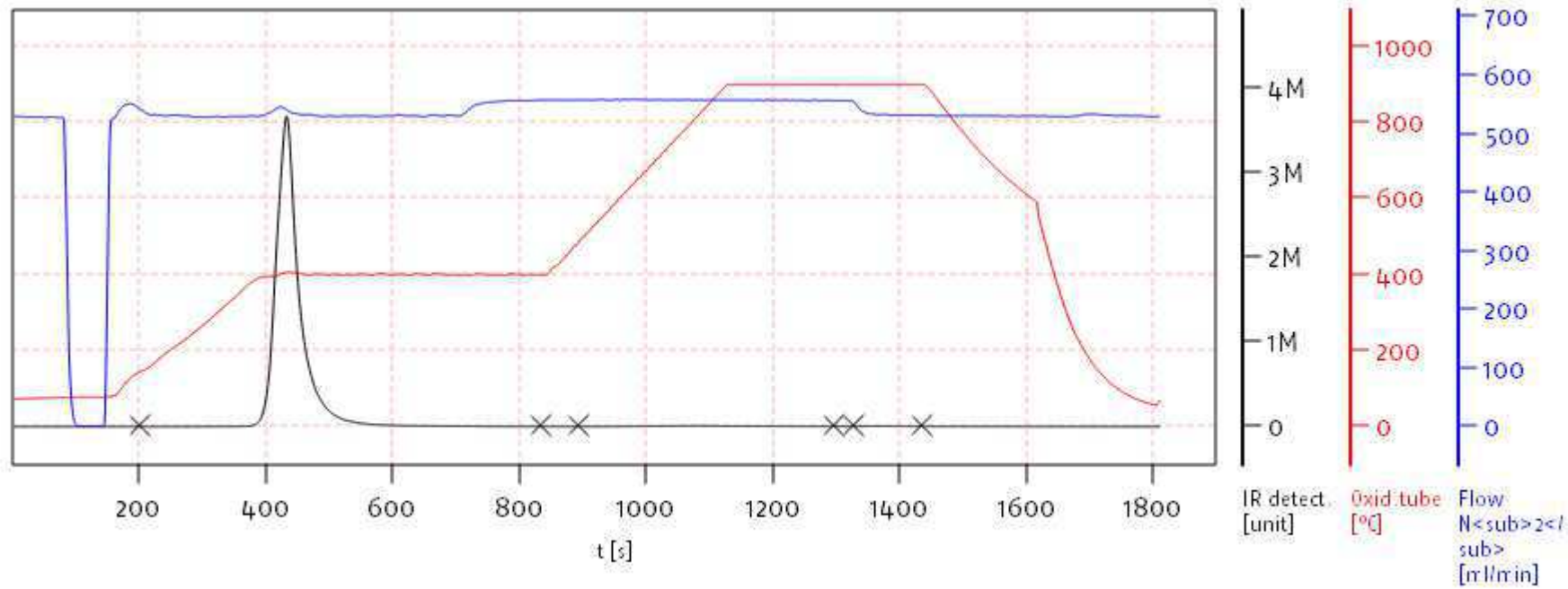
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
112	23	SKL0336-CCV9	19.60		CARBON	12/30/2022 10:58 PM	bl	44.389	5 869 243	44.777	0.000	18 812	75 632	44.389	0.388	0.9619	1.0000



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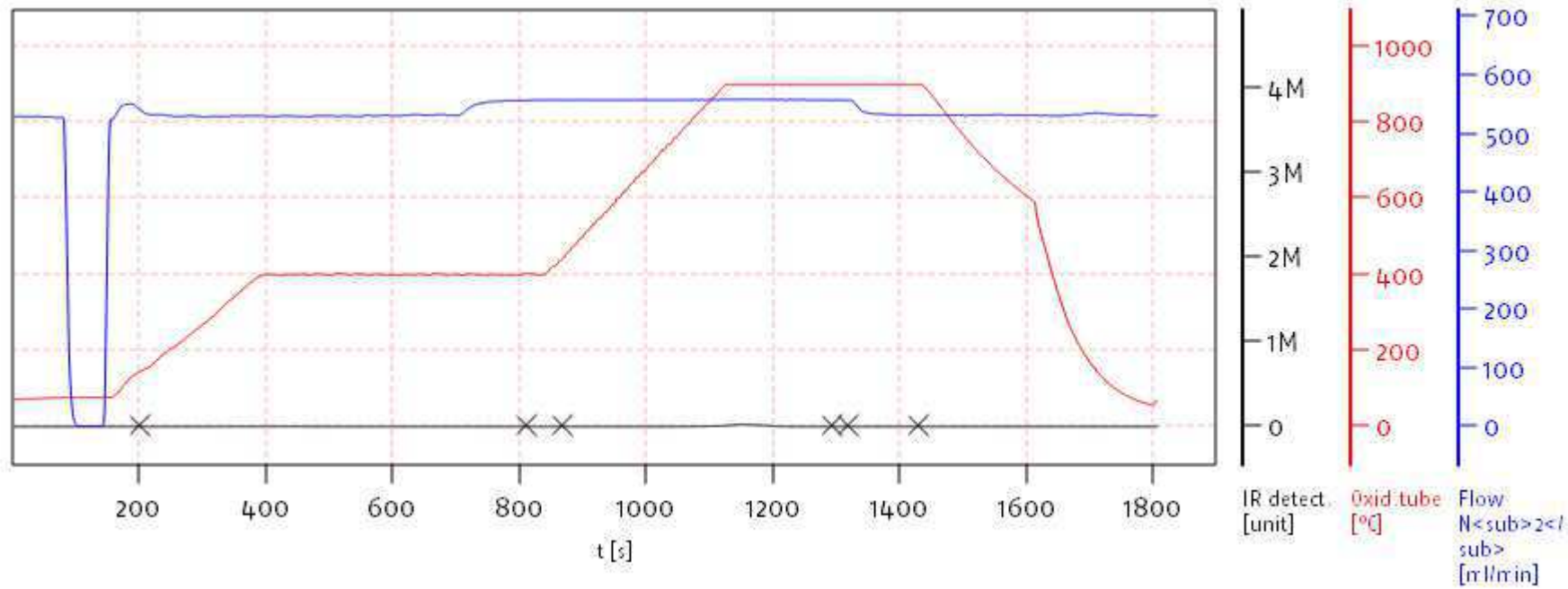
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
113	24	SKL0336-CCB9	507.20		CARBON	12/30/2022 11:29 PM	bl,C2u	0.000	9 554	0.011	0.000	529	64 066	0.000	0.011	0.9619	1.0000



Name:

Access: soliTOC superuser

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Serial No: 0300.181017
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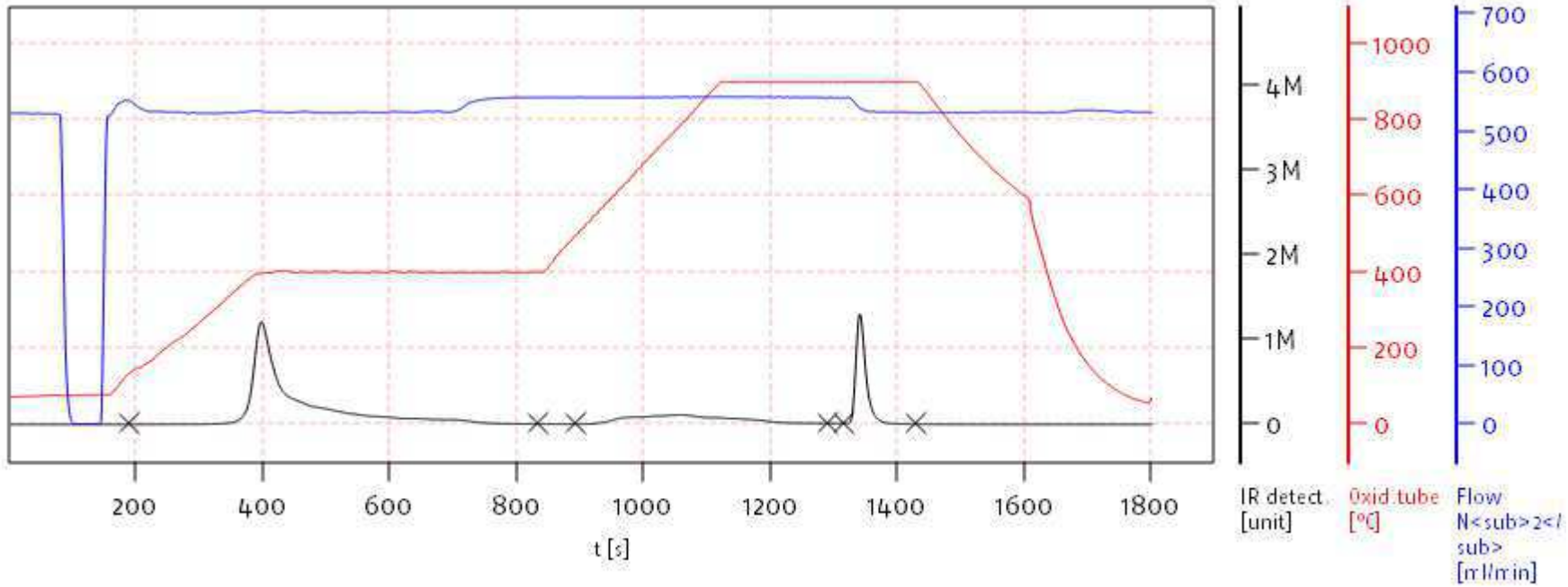
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
114	25	22L0329-09	546.20		CARBON	12/30/2022 11:59 PM	bl	1.091	3 111 915	1.325	0.250	908 740	853 014	0.841	0.234	0.9619	1.0000



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Balance: BAL3
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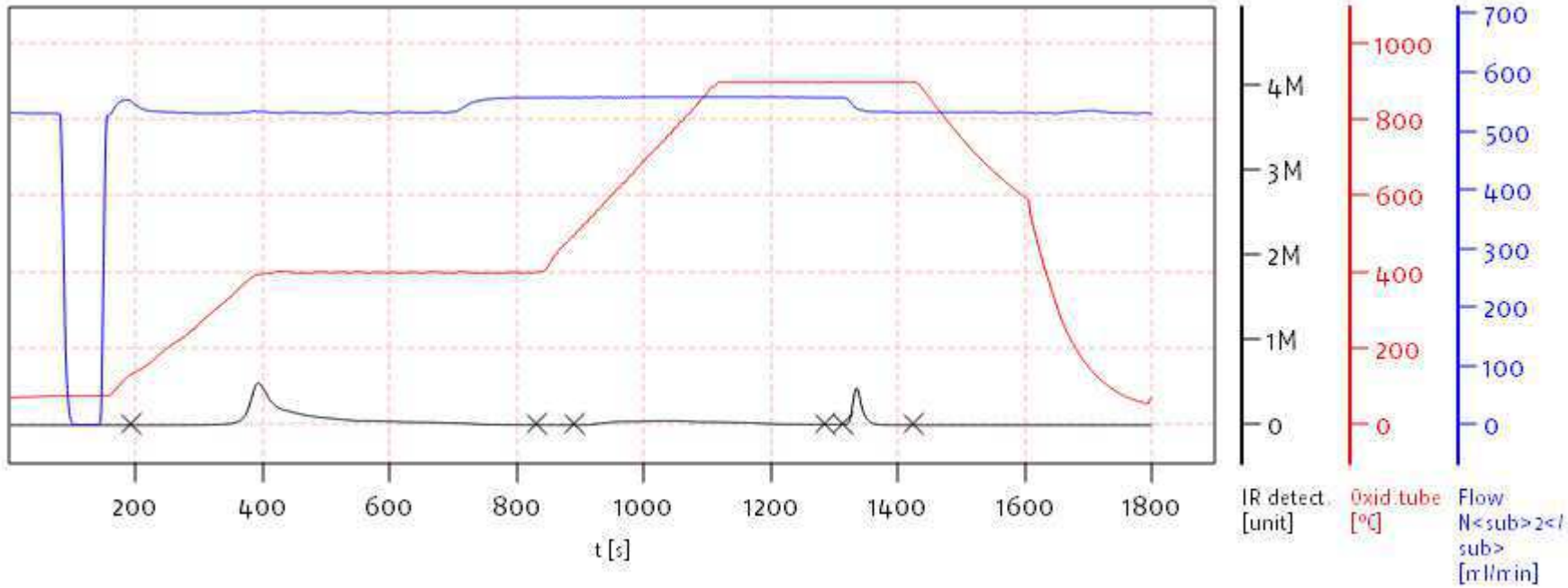
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
115	26	22L0329-10	256.20		CARBON	12/31/2022 12:29 AM	bl	0.995	1 470 989	1.231	0.155	283 108	417 586	0.840	0.236	0.9619	1.0000



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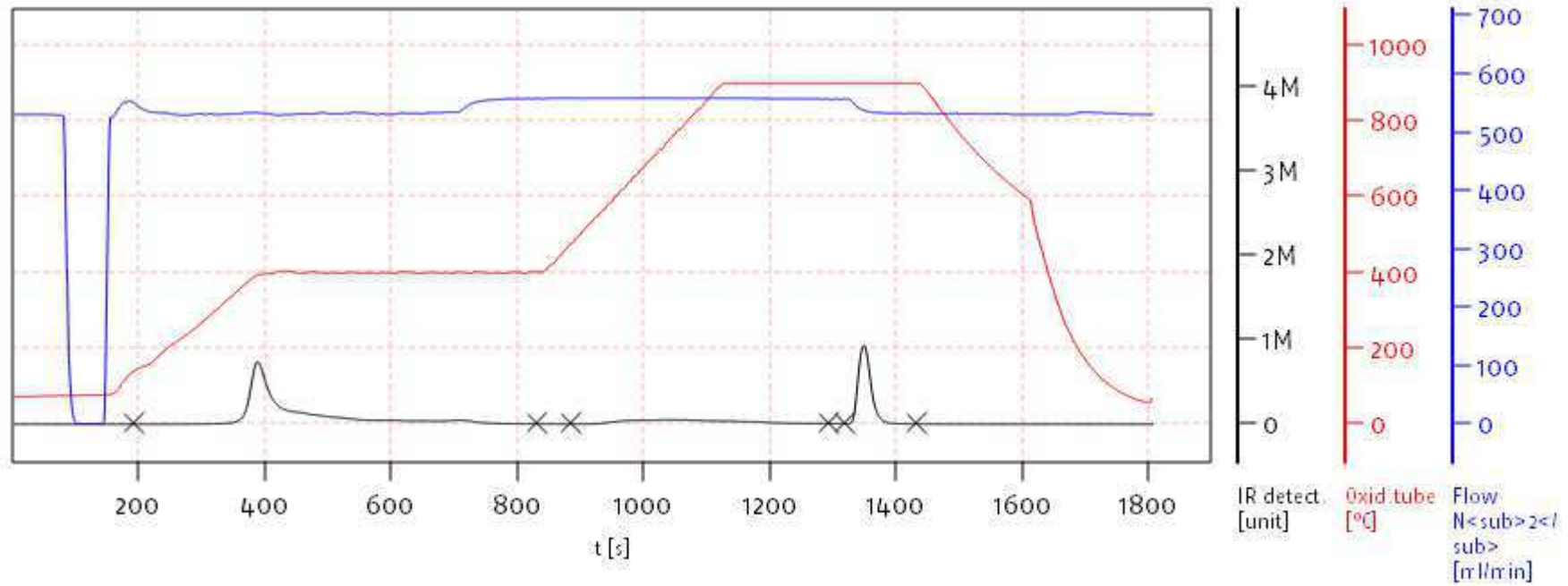
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
116	27	22L0329-11	241.70		CARBON	12/31/2022 1:00 AM	bl	1.612	1 810 491	1.874	0.513	827 096	435 226	1.099	0.262	0.9619	1.0000



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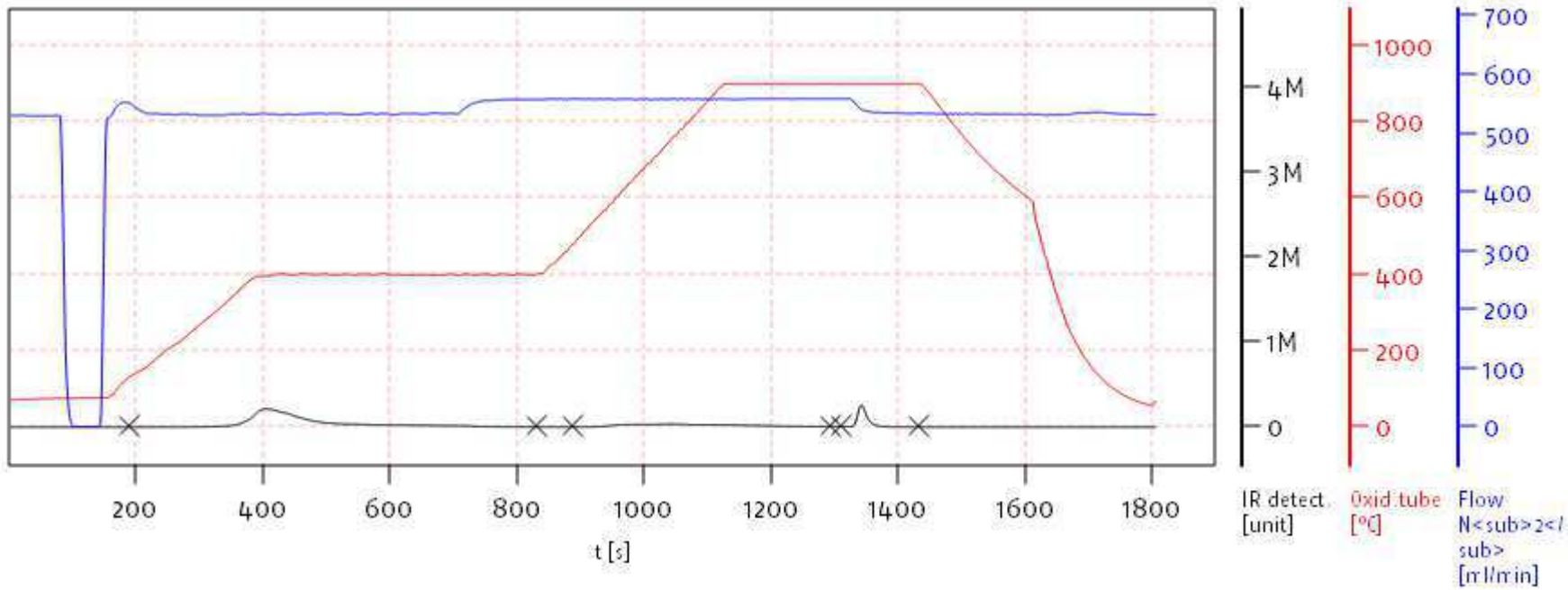
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
117	28	22L0329-12	221.00		CARBON	12/31/2022 1:30 AM	bl	0.704	917 724	0.890	0.103	173 951	291 739	0.600	0.186	0.9619	1.0000



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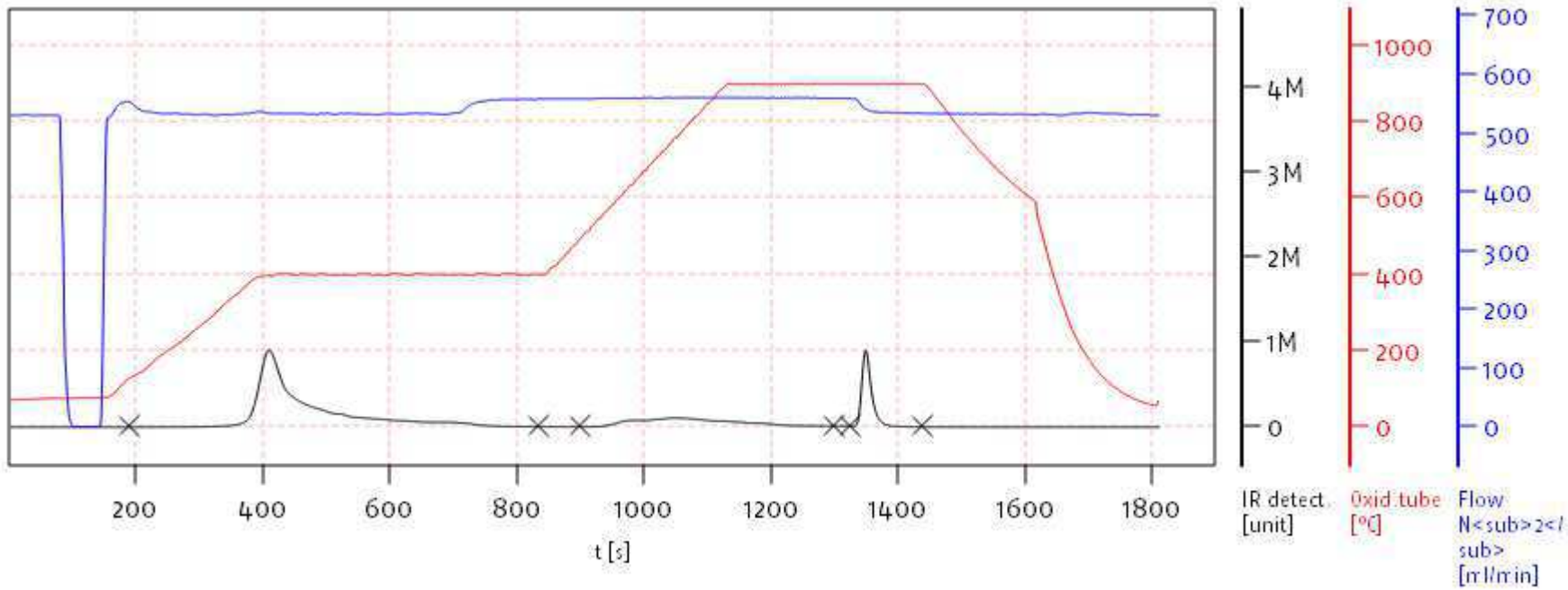
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
118	29	22L0329-13	501.30		CARBON	12/31/2022 2:01 AM	bl	1.013	2 821 698	1.248	0.183	618 261	787 868	0.830	0.235	0.9619	1.0000



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Balance: BAL3
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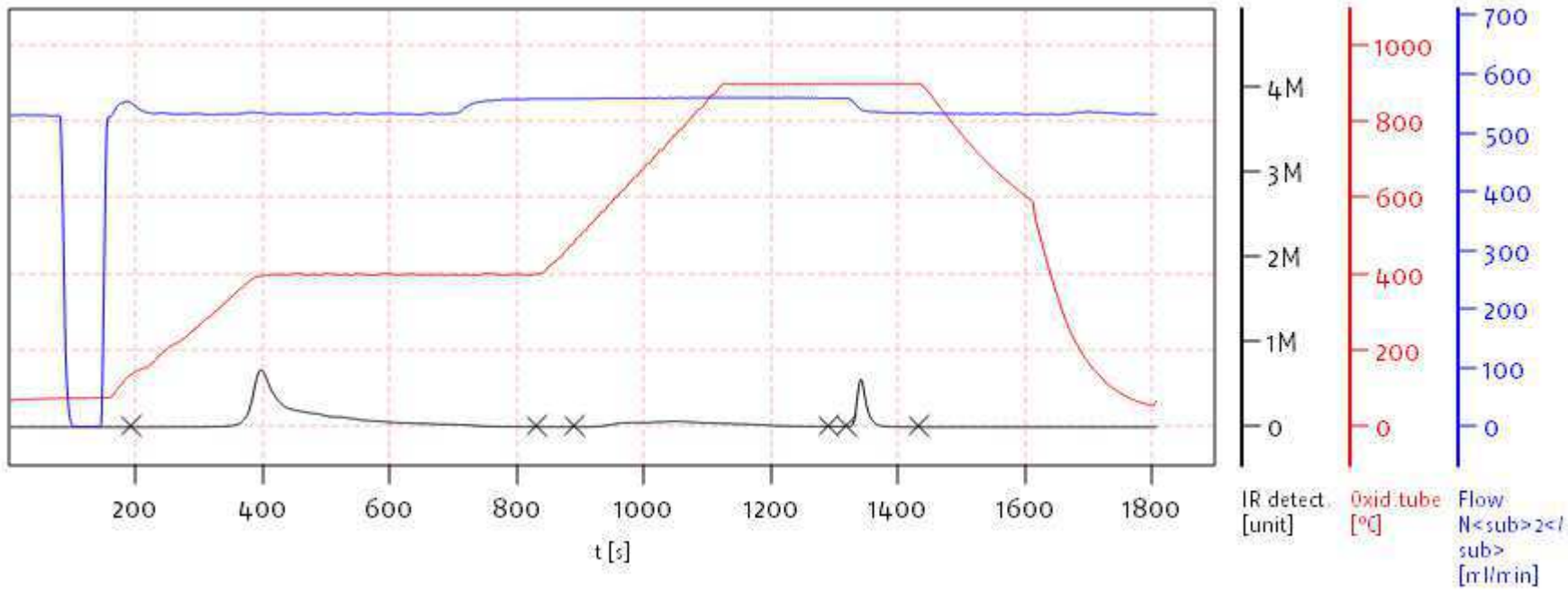
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
119	30	22L0329-14	339.00		CARBON	12/31/2022 2:32 AM	bl	1.034	2 022 757	1.249	0.157	370 905	497 776	0.877	0.215	0.9619	1.0000



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Serial No: 0300.181017
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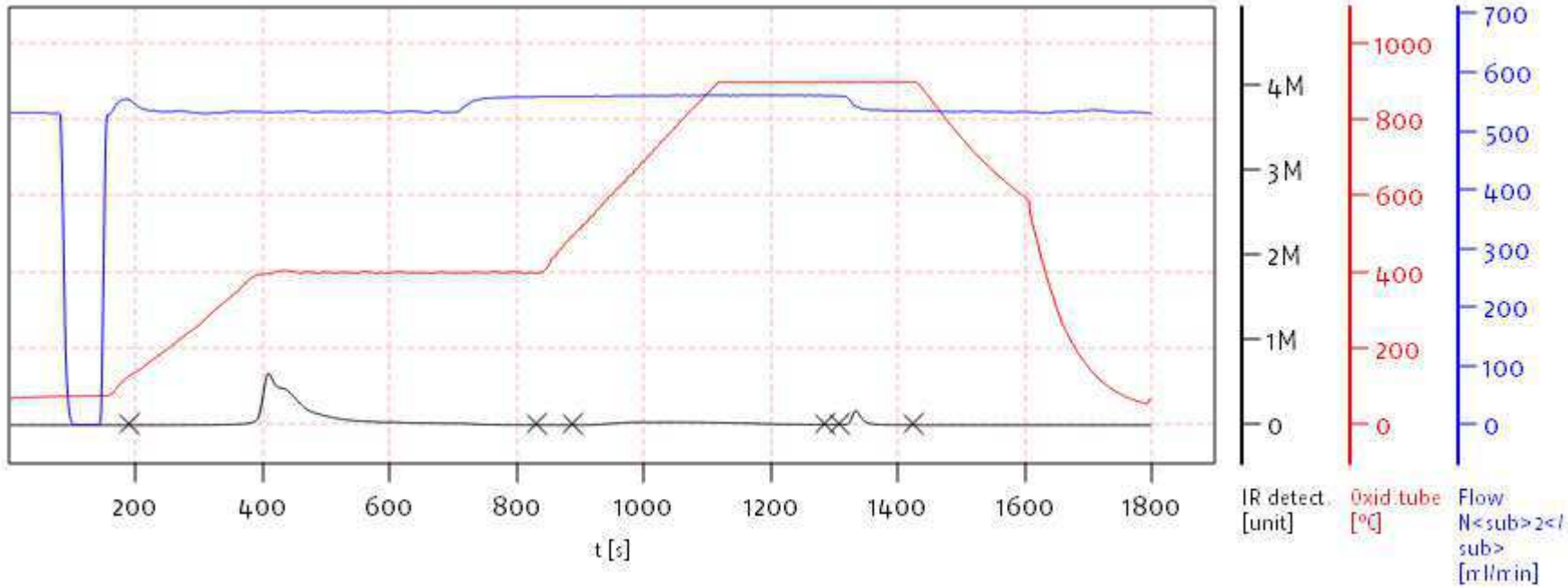
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
120	31	22L0329-15	571.30		CARBON	12/31/2022 3:02 AM	bl	0.450	1 653 653	0.527	0.026	122 804	308 545	0.424	0.076	0.9619	1.0000



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Balance: BAL3
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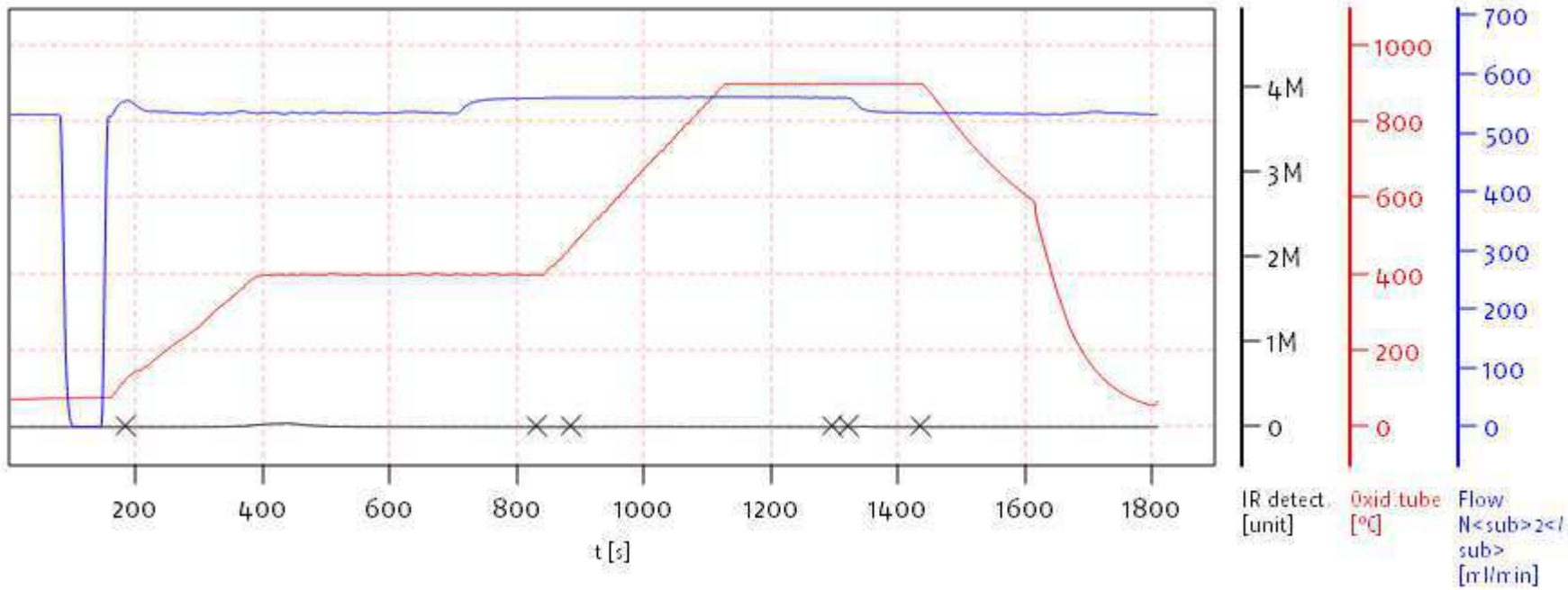
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
121	32	22L0329-16	507.10		CARBON	12/31/2022 3:32 AM	bl	0.043	174 384	0.043	0.000	5 954	18 736	0.043	0.000	0.9619	1.0000



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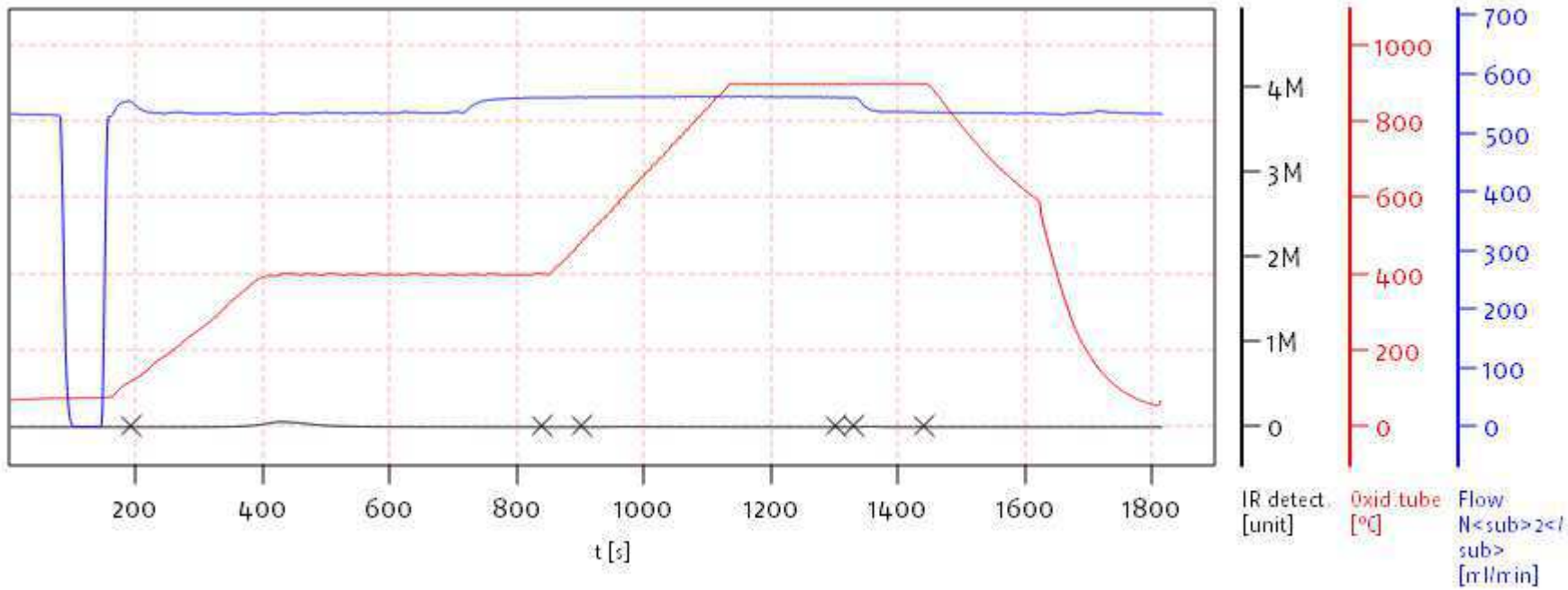
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
122	33	22L0329-17	513.30		CARBON	12/31/2022 4:03 AM	bl	0.061	237 886	0.061	0.000	6 649	22 472	0.061	0.000	0.9619	1.0000



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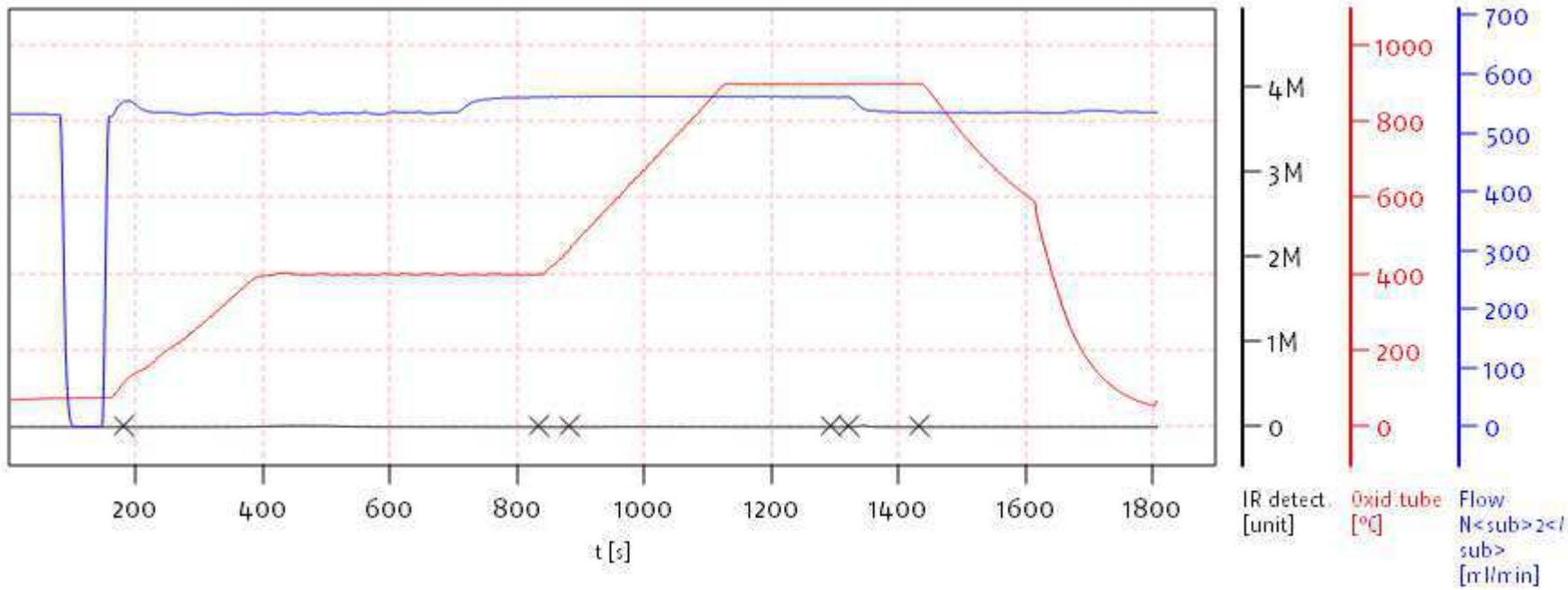
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
123	34	22L0329-18	598.10		CARBON	12/31/2022 4:34 AM	bl	0.013	77 820	0.013	0.000	11 840	19 189	0.013	0.000	0.9619	1.0000



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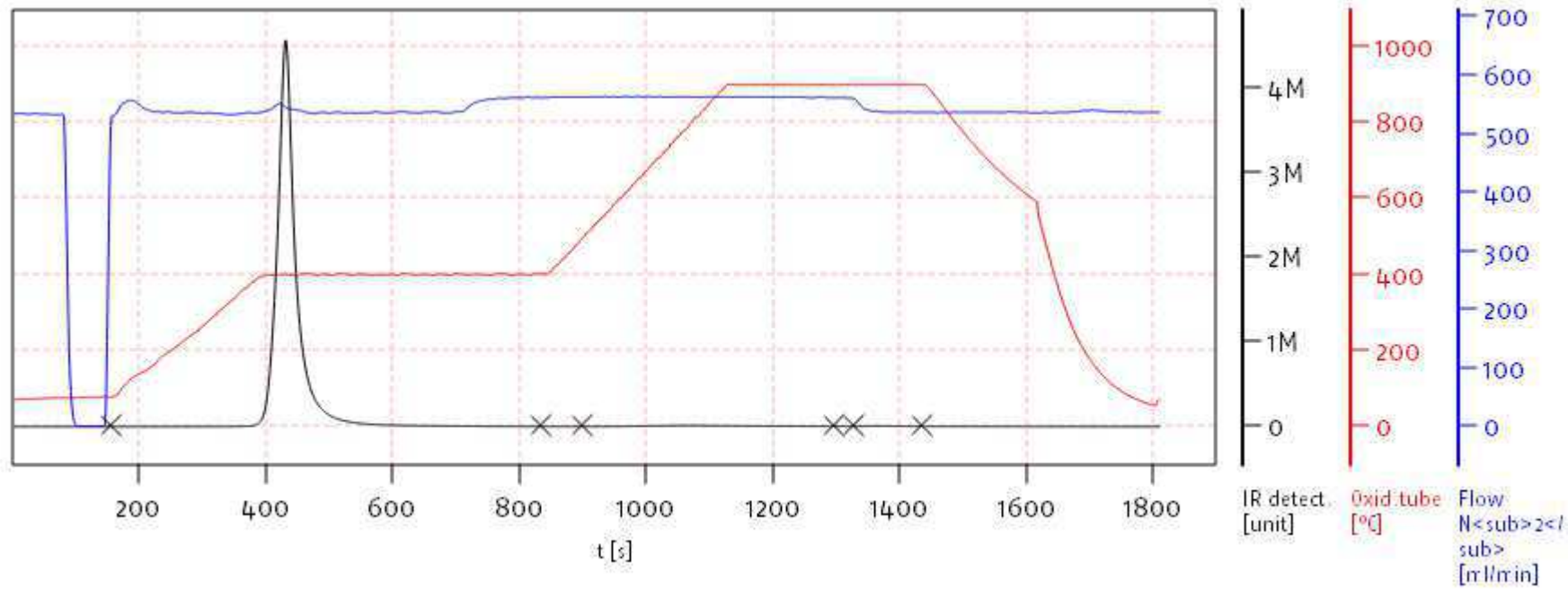
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
124	35	SKL0336-CCVA	19.50		CARBON	12/31/2022 5:04 AM	bl	44.664	5 875 431	45.266	0.000	22 023	102 349	44.664	0.602	0.9619	1.0000



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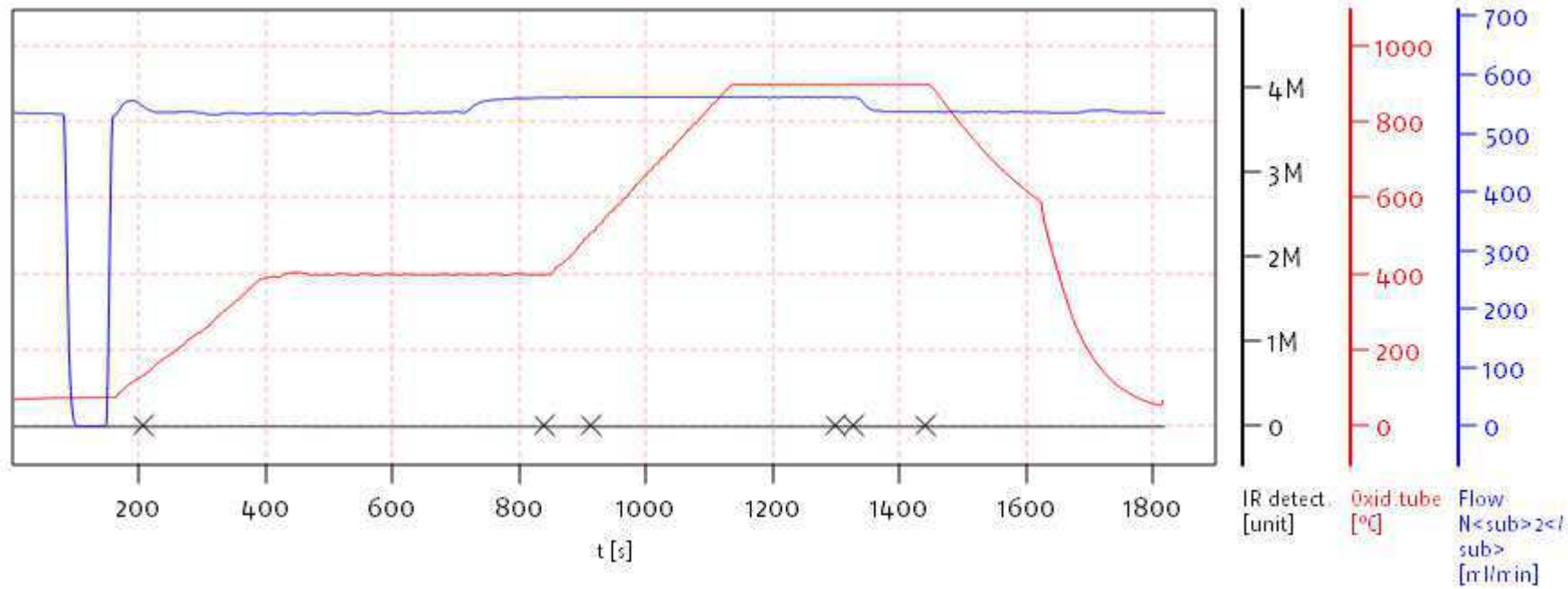
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
125	36	SKL0336-CCBA	508.40		CARBON	12/31/2022 5:35 AM	bl,C3u,C2u	0.000	9 800	0.000	0.000	554	177	0.000	0.000	0.9619	1.0000



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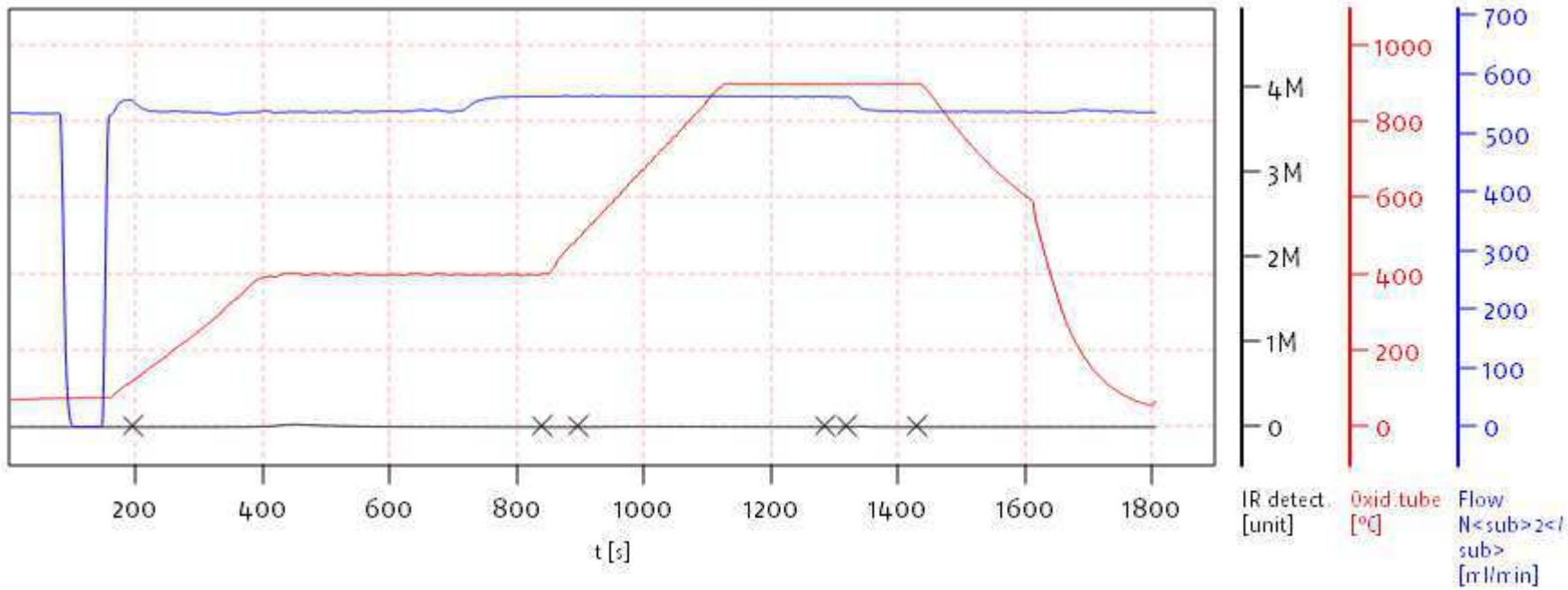
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
126	37	22L0329-19	592.80		CARBON	12/31/2022 6:05 AM	bl	0.028	138 363	0.032	0.000	7 518	40 045	0.028	0.004	0.9619	1.0000



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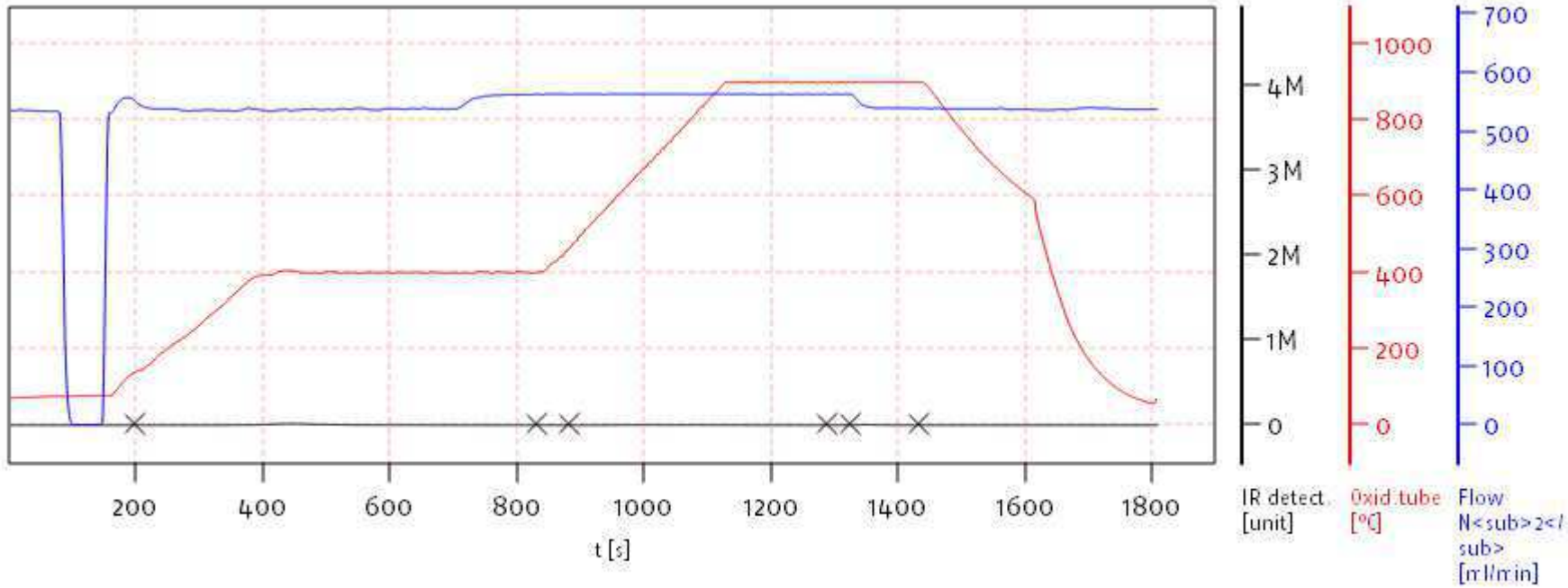
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
127	38	22L0329-20	551.60		CARBON	12/31/2022 6:36 AM	bl	0.012	71 600	0.012	0.000	6 762	18 798	0.012	0.000	0.9619	1.0000



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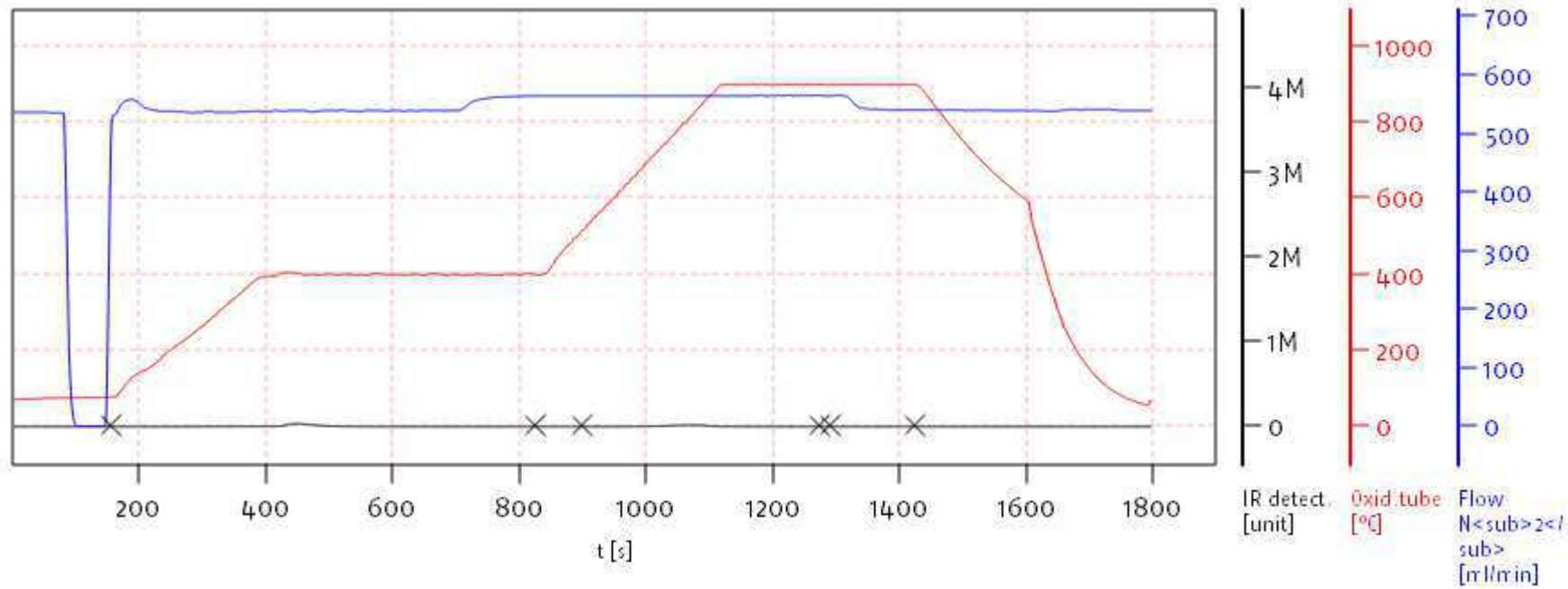
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
128	39	BKL0651-MRL1	541.30		CARBON	12/31/2022 7:06 AM	bl,C2u	0.015	81 393	0.022	0.000	585	52 060	0.015	0.007	0.9619	1.0000



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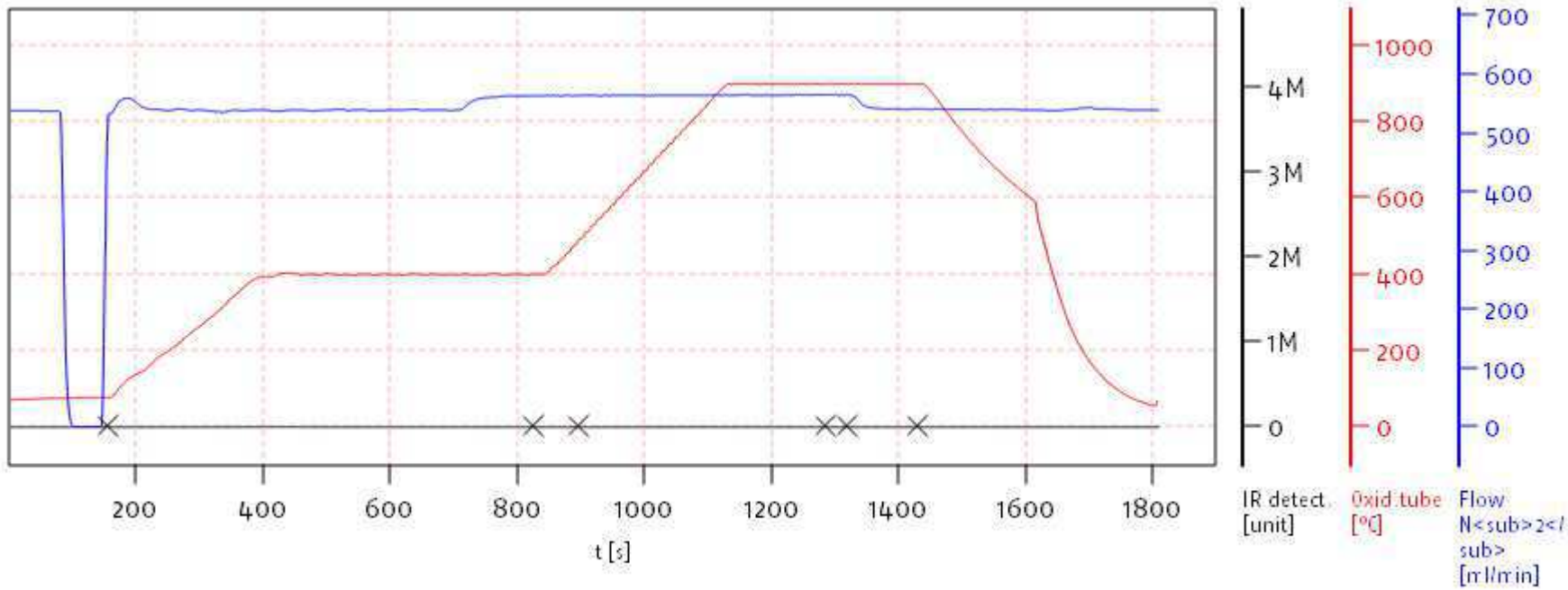
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
129	40	BKL0651-BLK1	520.80		CARBON	12/31/2022 7:37 AM	bl,C2u	0.000	9 085	0.000	0.000	342	5 285	0.000	0.000	0.9619	1.0000



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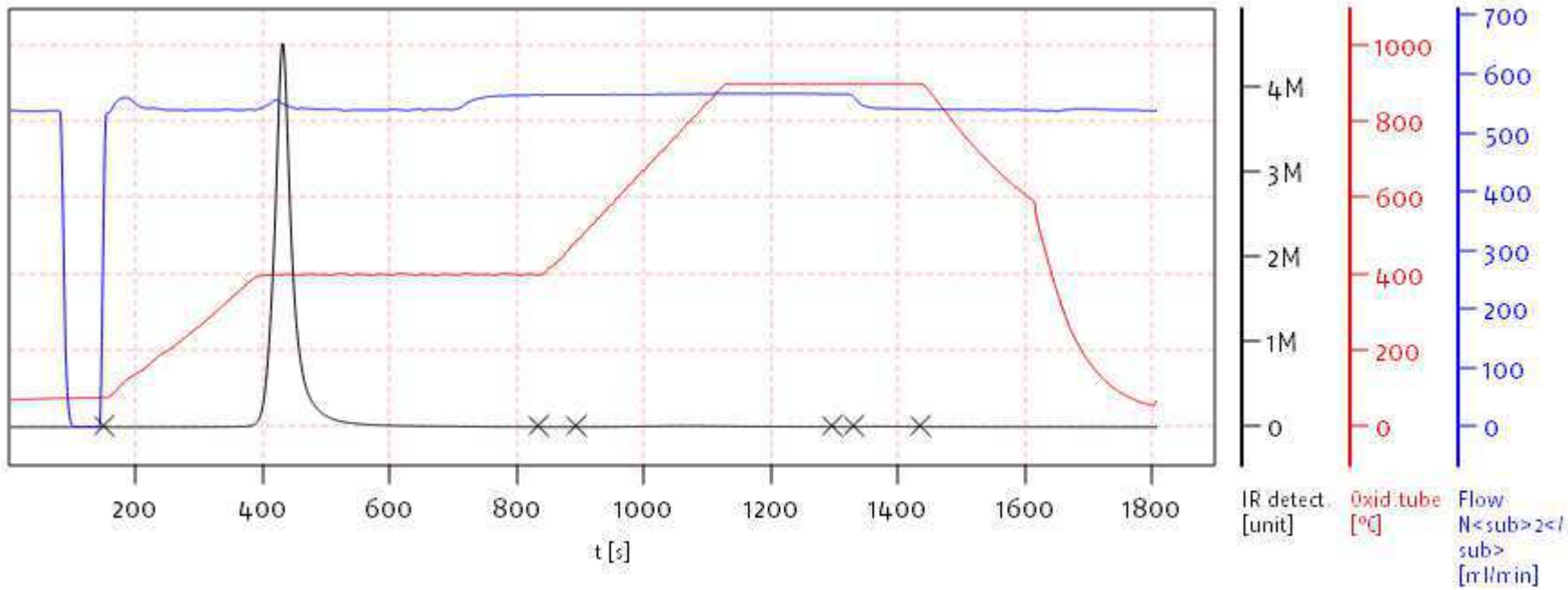
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
130	41	BKL0651-BS1	19.40		CARBON	12/31/2022 8:07 AM	bl	44.366	5 806 715	44.931	0.000	21 895	97 256	44.366	0.564	0.9619	1.0000



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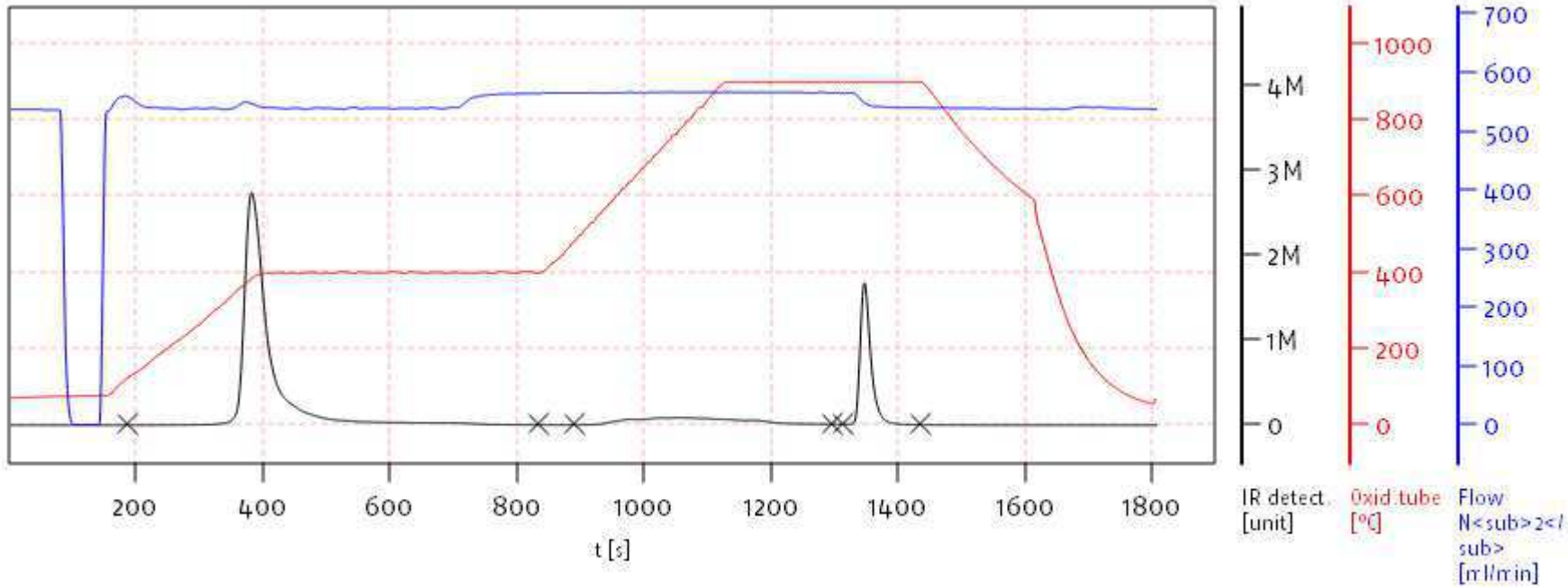
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
131	42	BKL0651-SRM1	285.60		CARBON	12/31/2022 8:38 AM	bl	2.988	4 496 099	3.372	0.658	1 240 705	734 282	2.330	0.384	0.9619	1.0000



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Balance: BAL3
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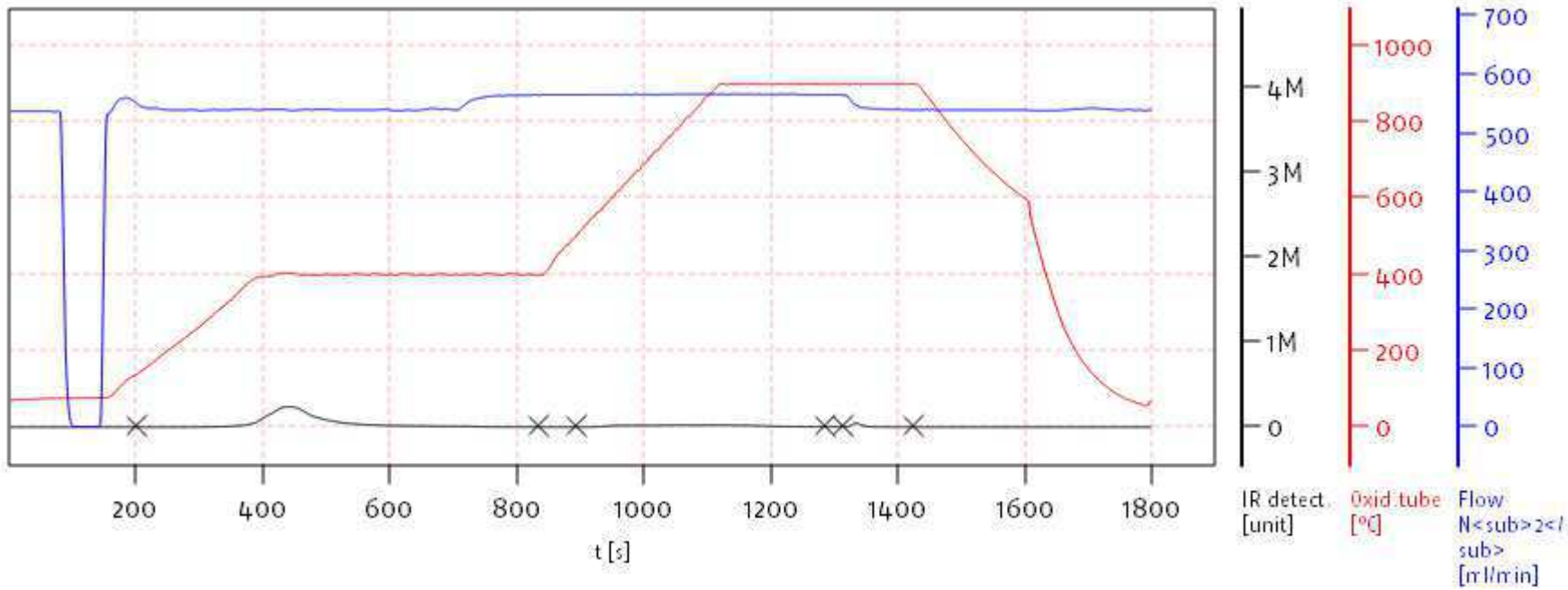
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
132	43	22L0329-21	534.70		CARBON	12/31/2022 9:08 AM	bl	0.258	945 095	0.312	0.002	34 300	212 798	0.256	0.054	0.9619	1.0000



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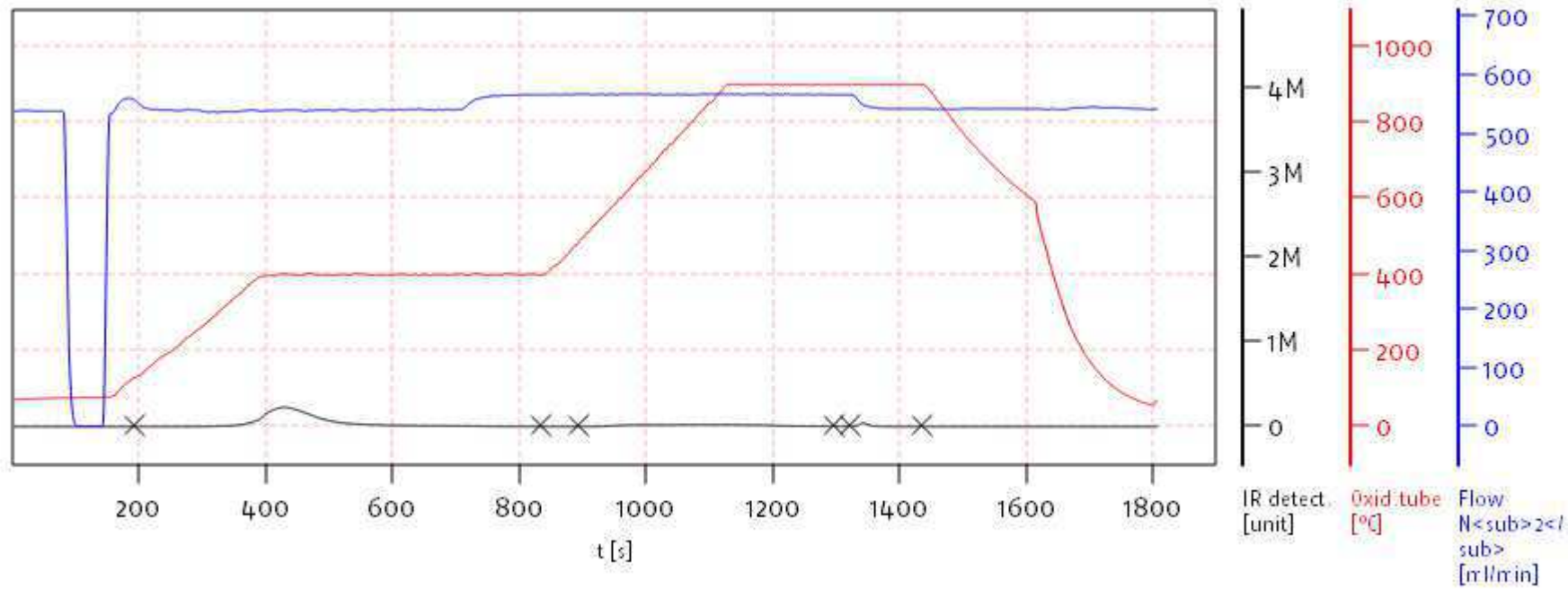
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
133	44	BKL0651-DUP1	509.30		CARBON	12/31/2022 9:39 AM	bl	0.265	928 894	0.320	0.001	29 447	208 309	0.264	0.055	0.9619	1.0000



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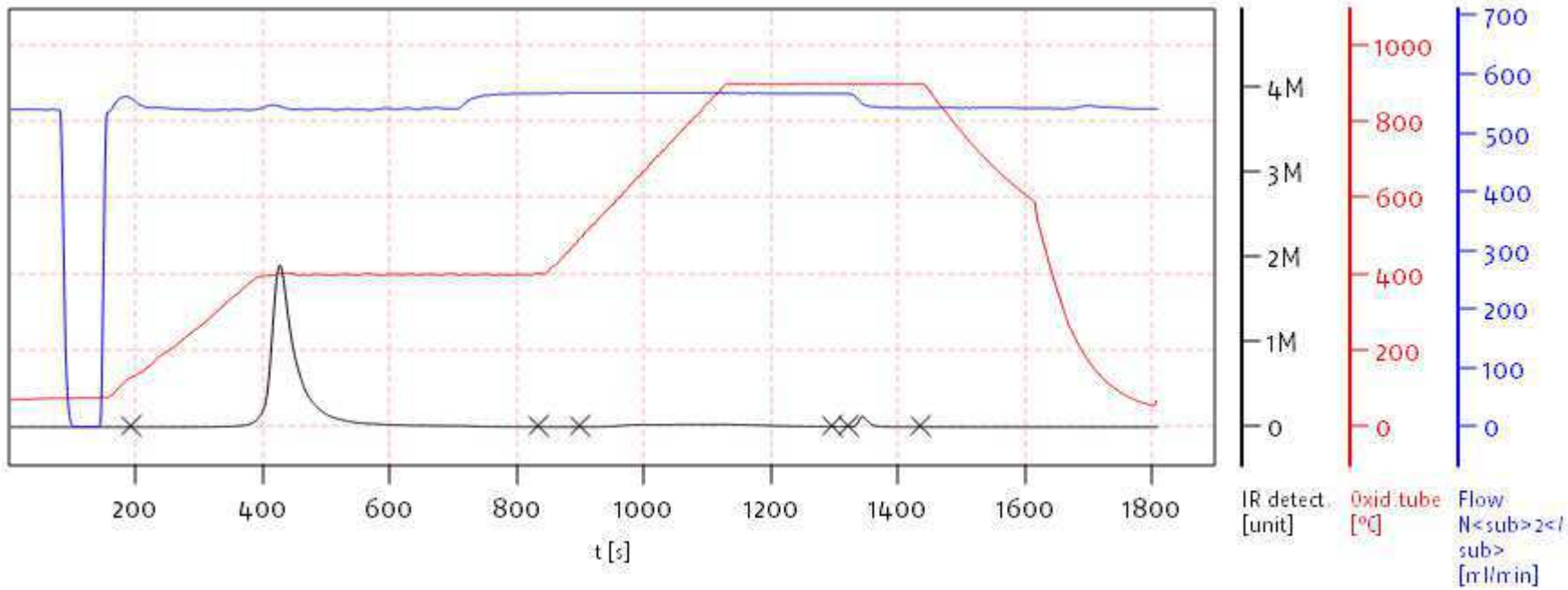
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
134	45	BKL0651-MS1	546.30	0.0079	CARBON	12/31/2022 10:09 AM	bl	0.932	3 381 307	1.006	0.017	88 143	286 964	0.914	0.074	0.9619	1.0000



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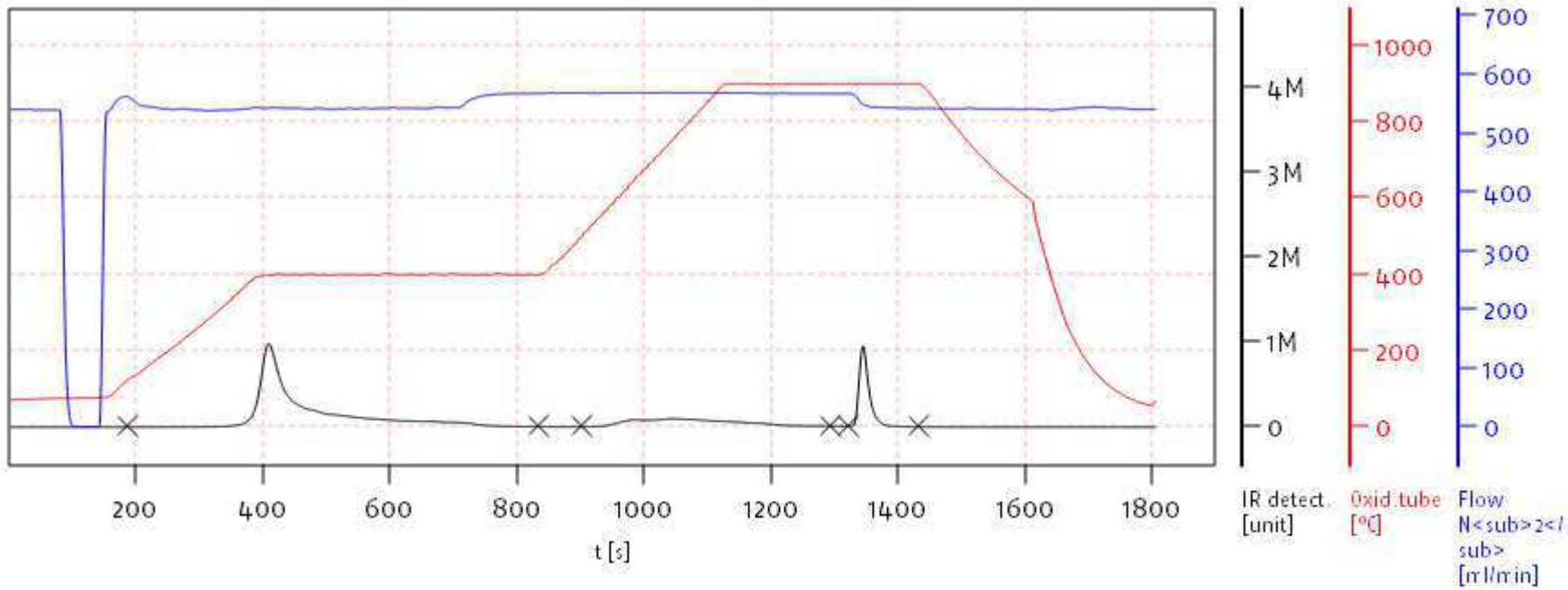
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
135	46	22L0329-22	503.90		CARBON	12/31/2022 10:40 AM	bl	0.974	2 662 419	1.199	0.195	662 448	757 820	0.779	0.225	0.9619	1.0000



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Serial No: 0300.181017
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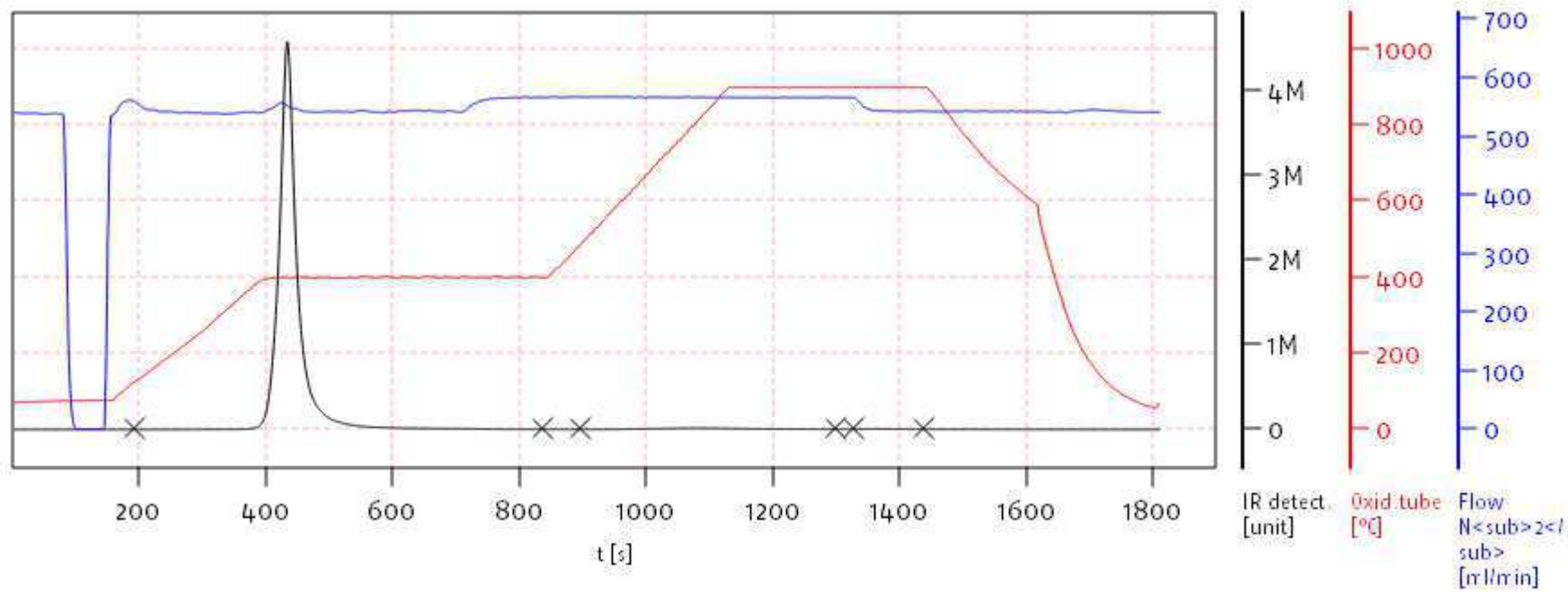
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
136	47	SKL0336-CCVB	19.30		CARBON	12/31/2022 11:11 AM	bl	44.262	5 763 356	44.972	0.000	21 763	115 129	44.262	0.711	0.9619	1.0000



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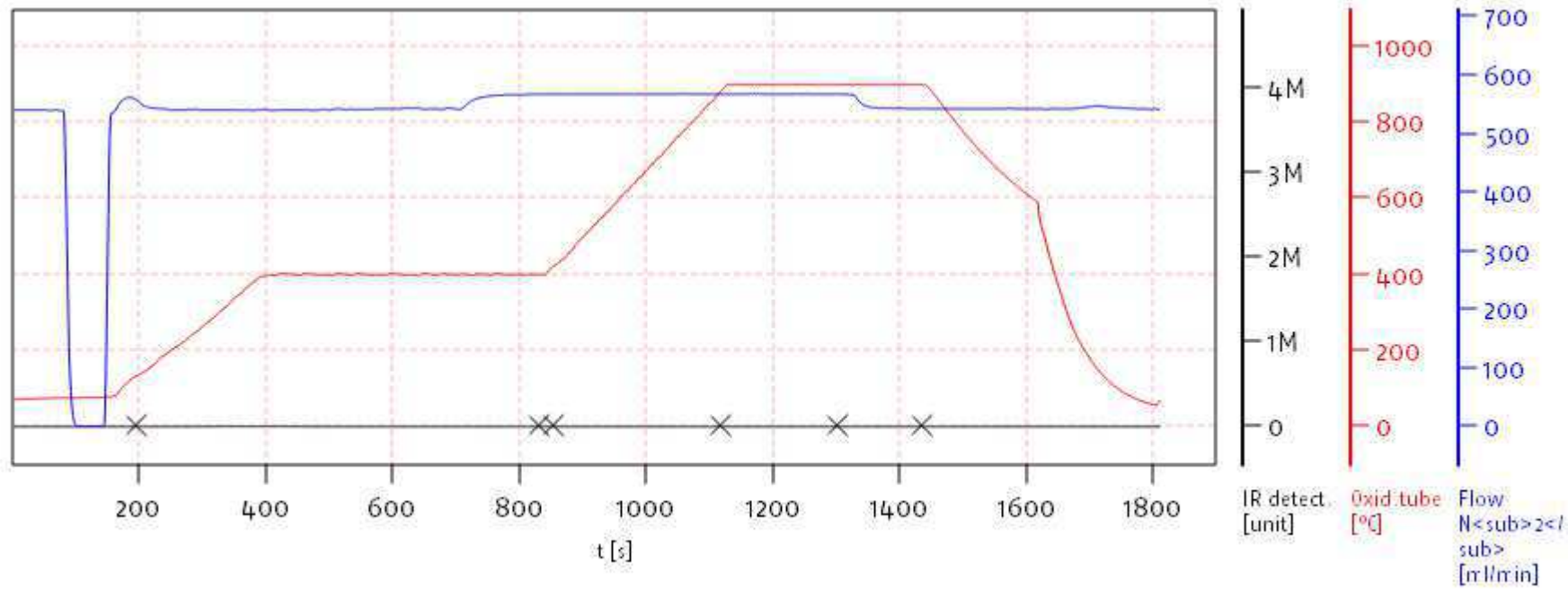
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
137	48	SKL0336-CCBB	537.60		CARBON	12/31/2022 11:41 AM	bl,C3u,C2u	0.000	14 989	0.000	0.000	624	369	0.000	0.000	0.9619	1.0000



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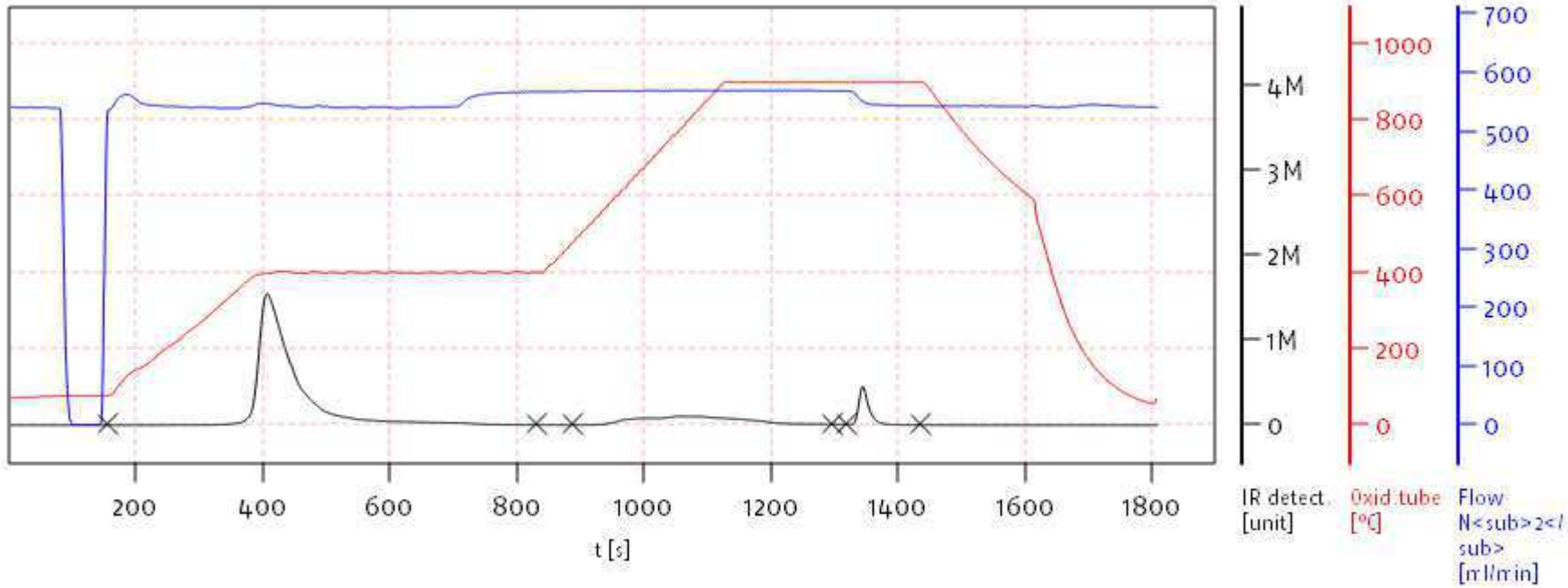
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
138	49	22L0329-23	526.70		CARBON	12/31/2022 12:12 PM	bl	1.136	3 736 415	1.363	0.087	321 930	801 042	1.049	0.228	0.9619	1.0000



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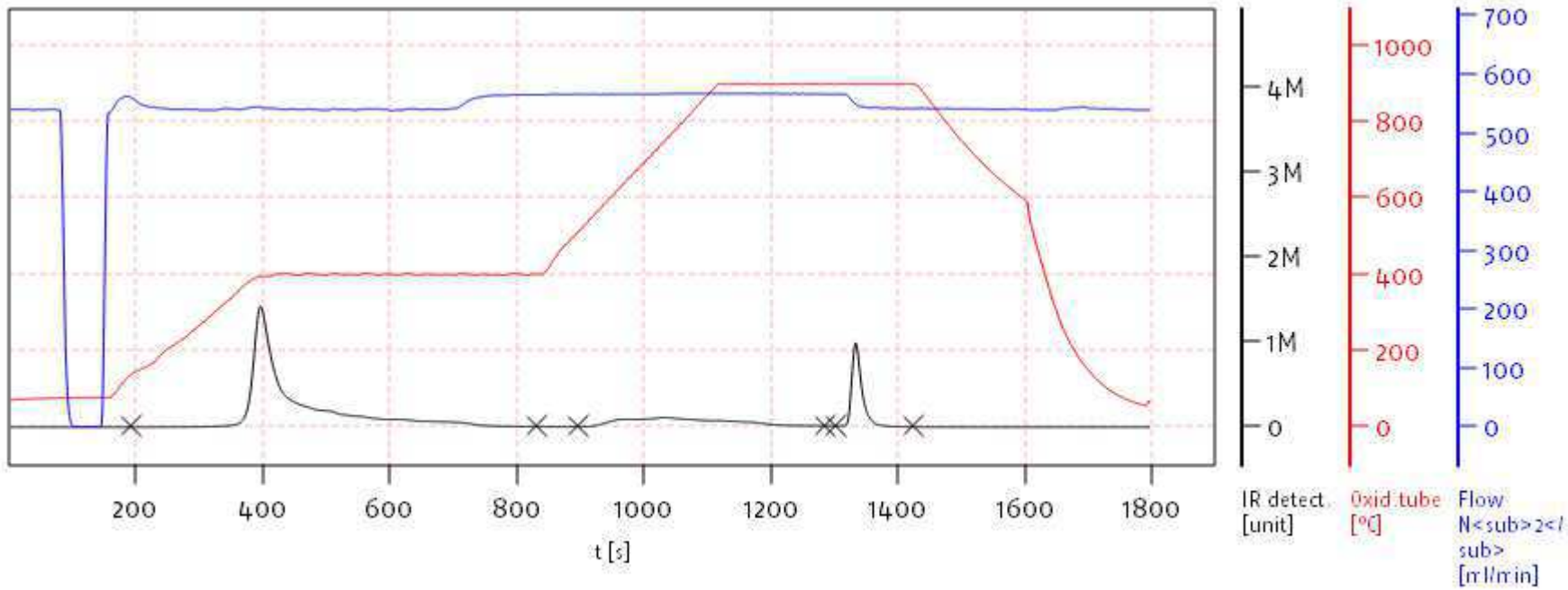
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
139	50	22L0329-24	512.40		CARBON	12/31/2022 12:42 PM	bl	1.181	3 389 869	1.437	0.204	701 481	872 703	0.977	0.256	0.9619	1.0000



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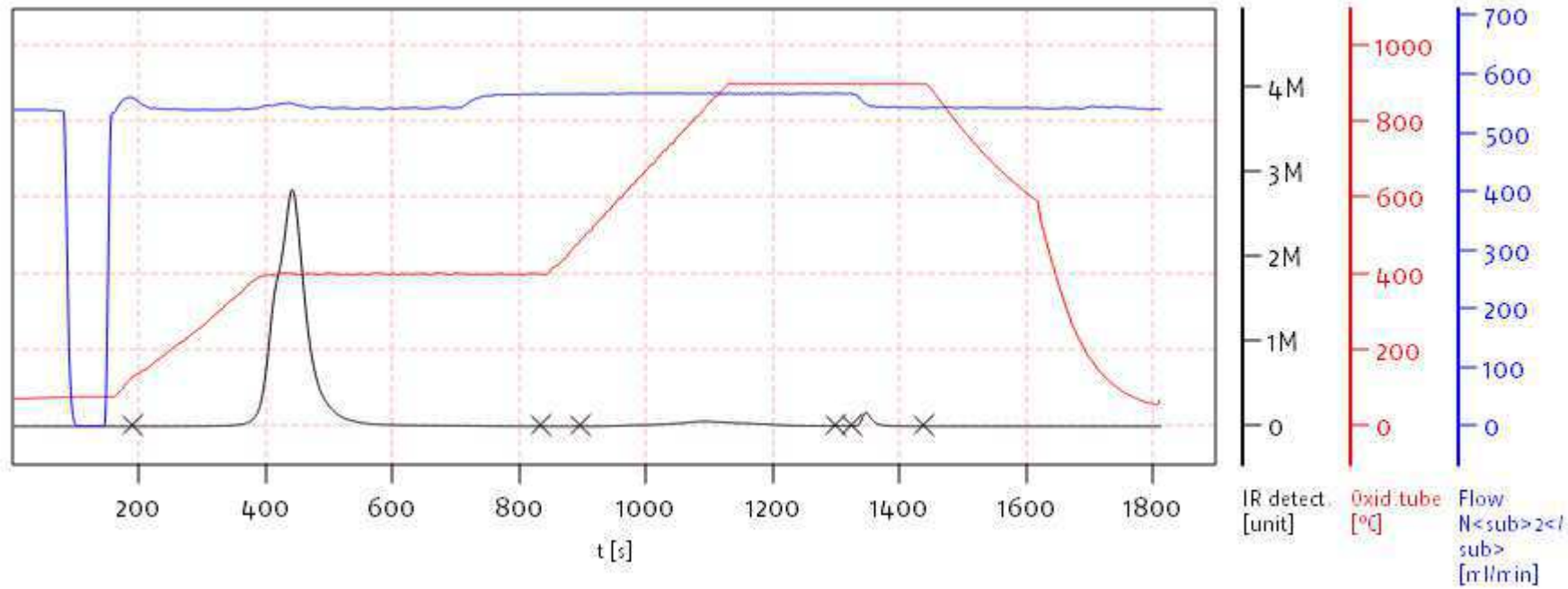
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
140	51	22L0329-25	527.60		CARBON	12/31/2022 1:13 PM	bl	1.722	6 032 597	1.814	0.027	118 871	339 551	1.695	0.092	0.9619	1.0000



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Serial No: 0300.181017
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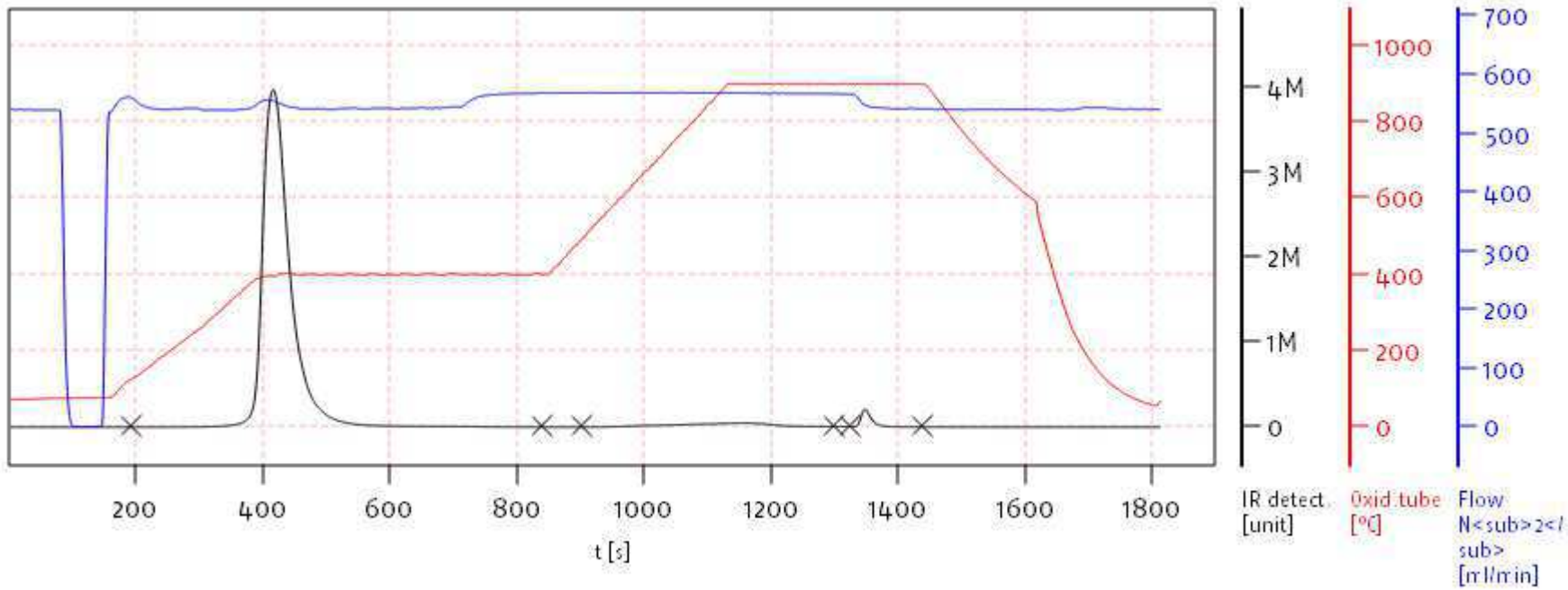
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
141	52	22L0329-26	515.90		CARBON	12/31/2022 1:43 PM	bl	2.171	7 416 684	2.259	0.038	153 467	320 089	2.133	0.088	0.9619	1.0000



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Balance: BAL3
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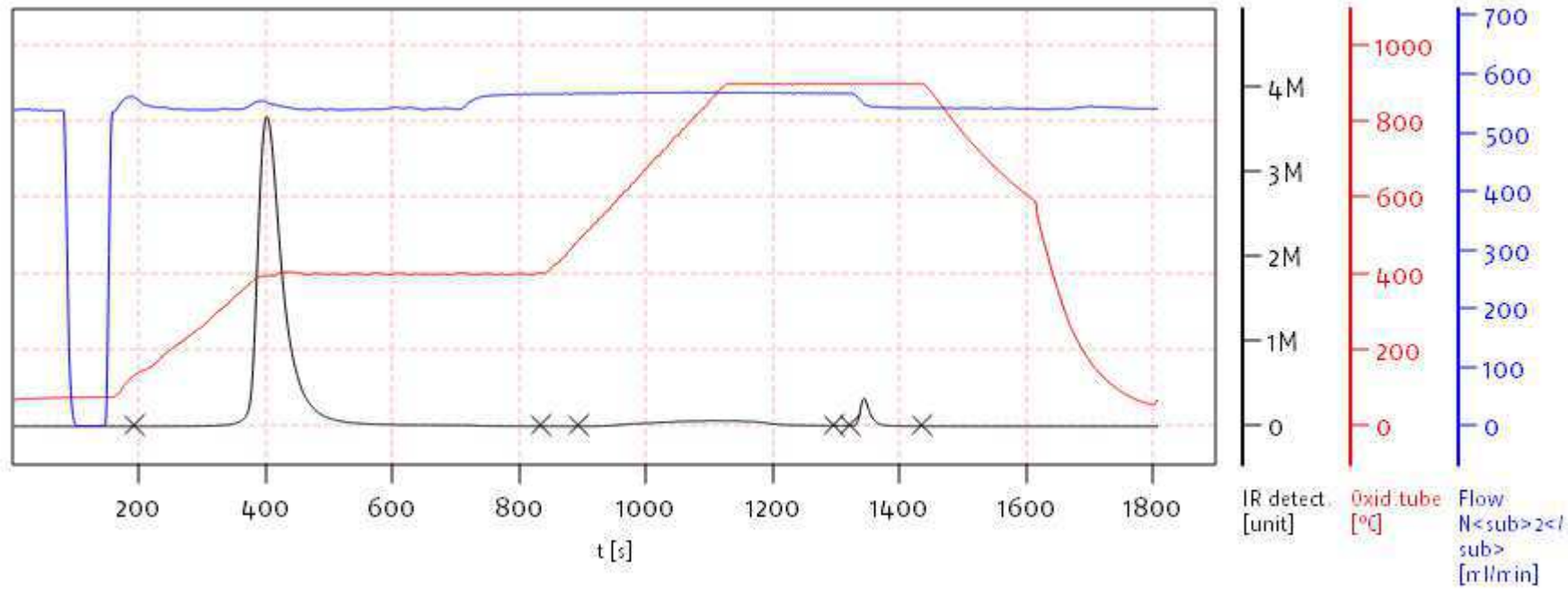
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
142	53	22L0329-27	505.00		CARBON	12/31/2022 2:14 PM	bl	1.989	6 556 551	2.142	0.063	233 415	524 881	1.925	0.153	0.9619	1.0000



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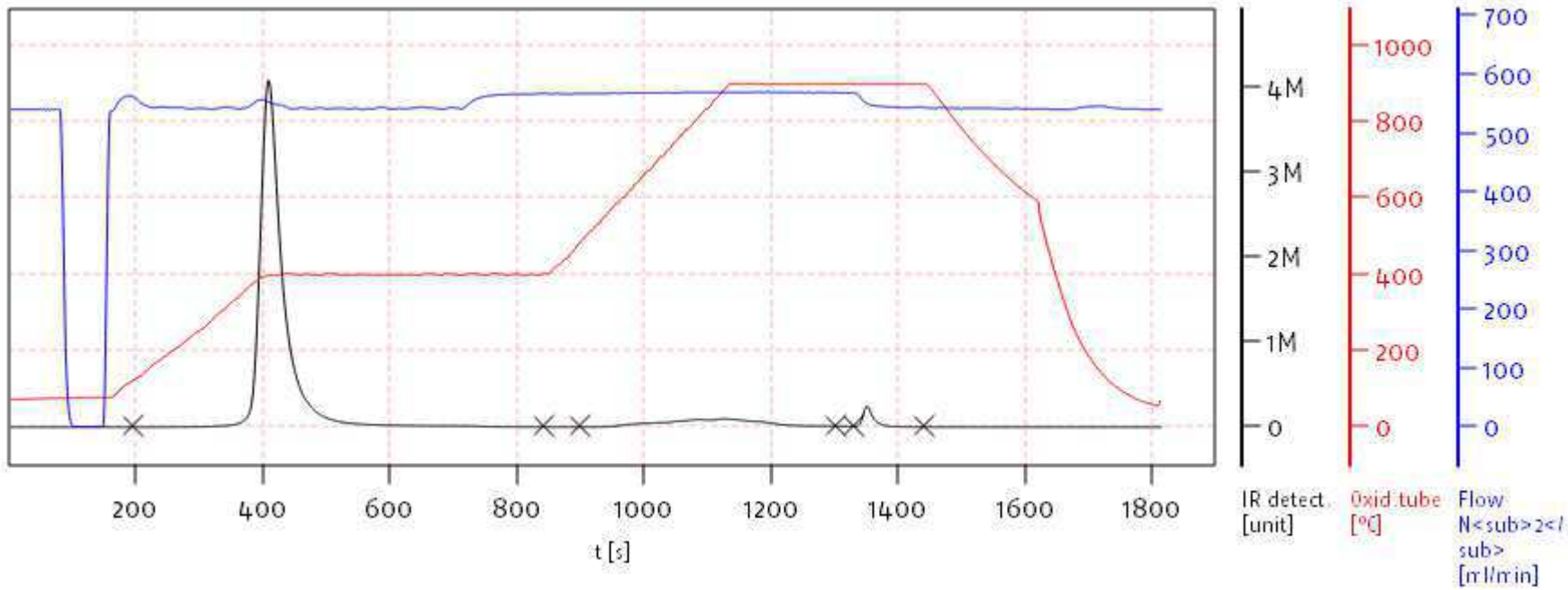
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
143	54	22L0329-28	522.10		CARBON	12/31/2022 2:44 PM	bl	1.863	6 395 374	2.054	0.046	182 984	671 039	1.816	0.191	0.9619	1.0000



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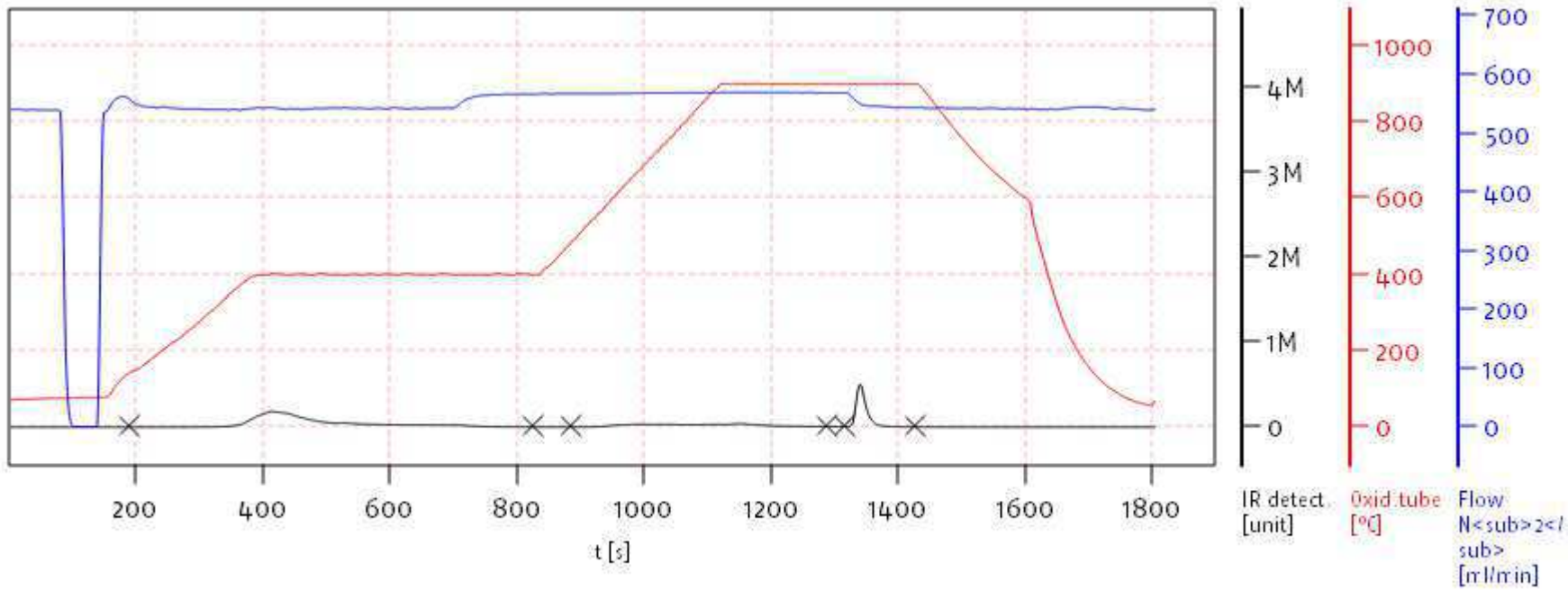
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
144	55	22L0329-29	516.00		CARBON	12/31/2022 3:15 PM	bl	0.352	901 231	0.439	0.099	357 312	318 364	0.252	0.088	0.9619	1.0000



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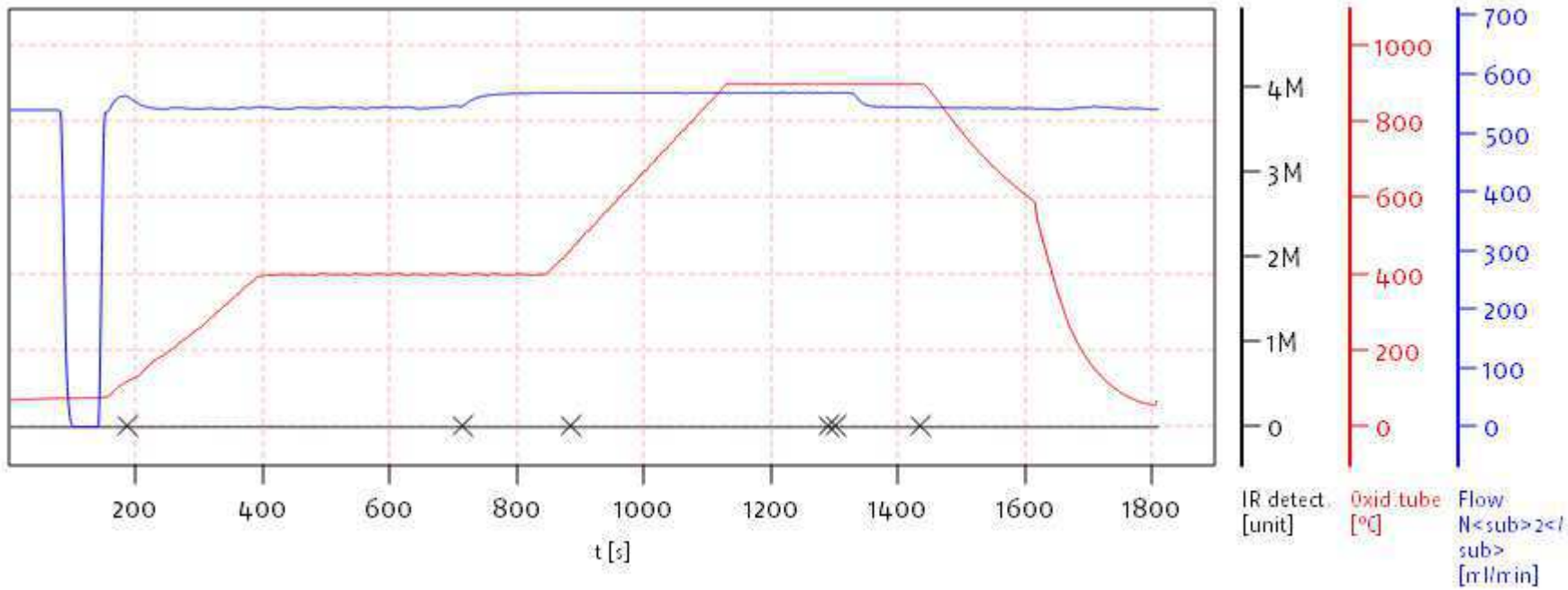
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
145	56	BLANK	1.00		CARBON	12/31/2022 3:46 PM	bl	0.000	8 477	0.000	0.000	377	1 497	0.000	0.000	0.9619	1.0000



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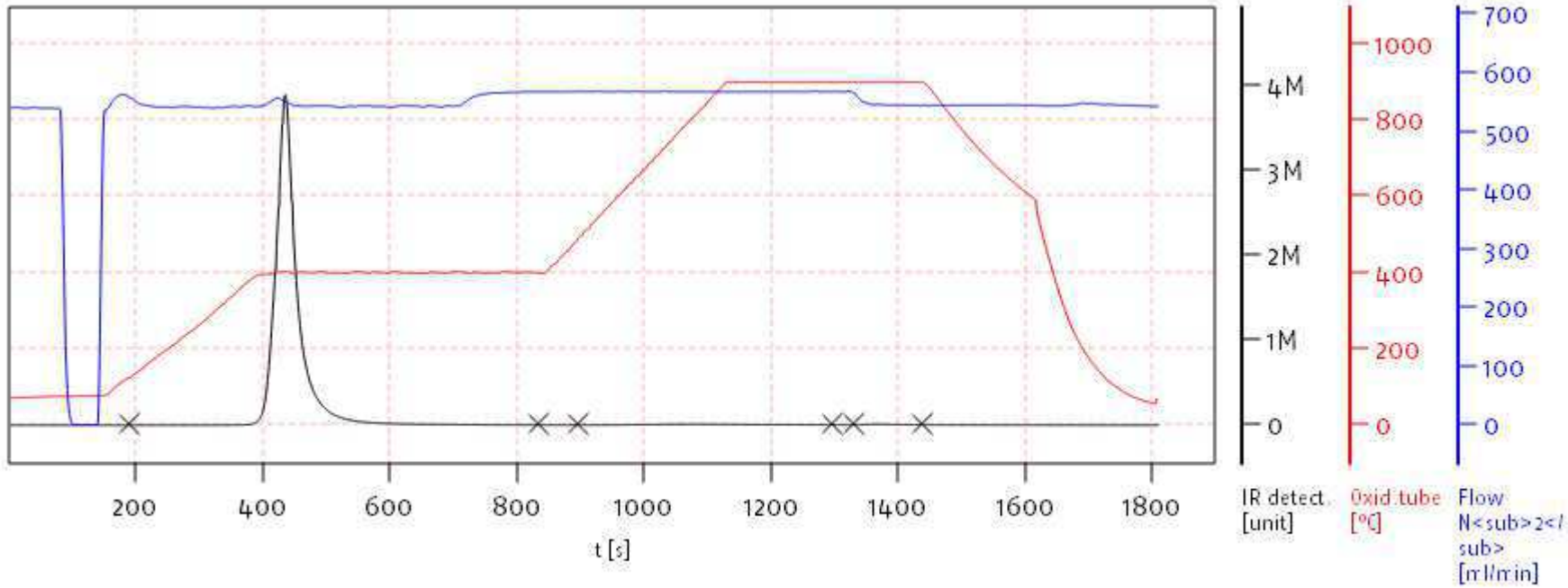
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
146	57	Dfactor	19.30		CARBON	12/31/2022 4:16 PM	bl	44.467	5 642 249	45.050	0.021	29 141	99 276	44.446	0.583	0.9867	1.0000



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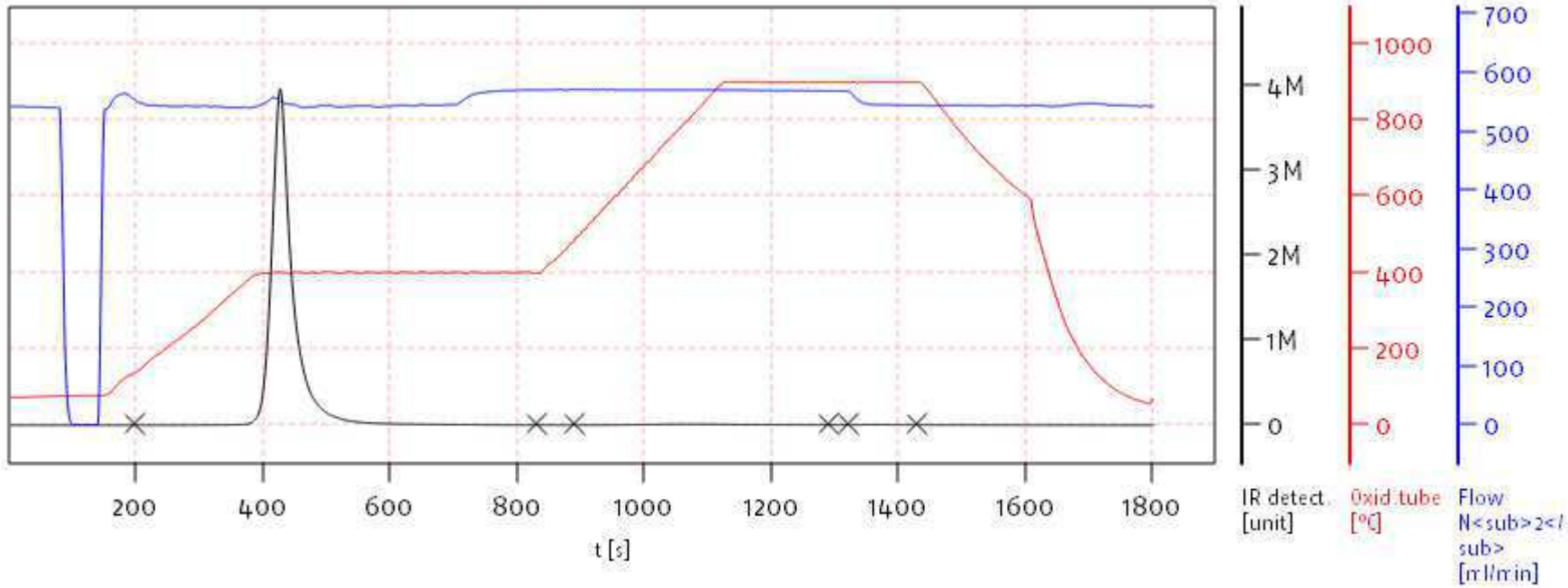
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
147	58	Dfactor	19.20		CARBON	12/31/2022 4:47 PM	bl	44.446	5 701 287	44.935	0.000	19 314	87 237	44.446	0.489	0.9714	1.0000



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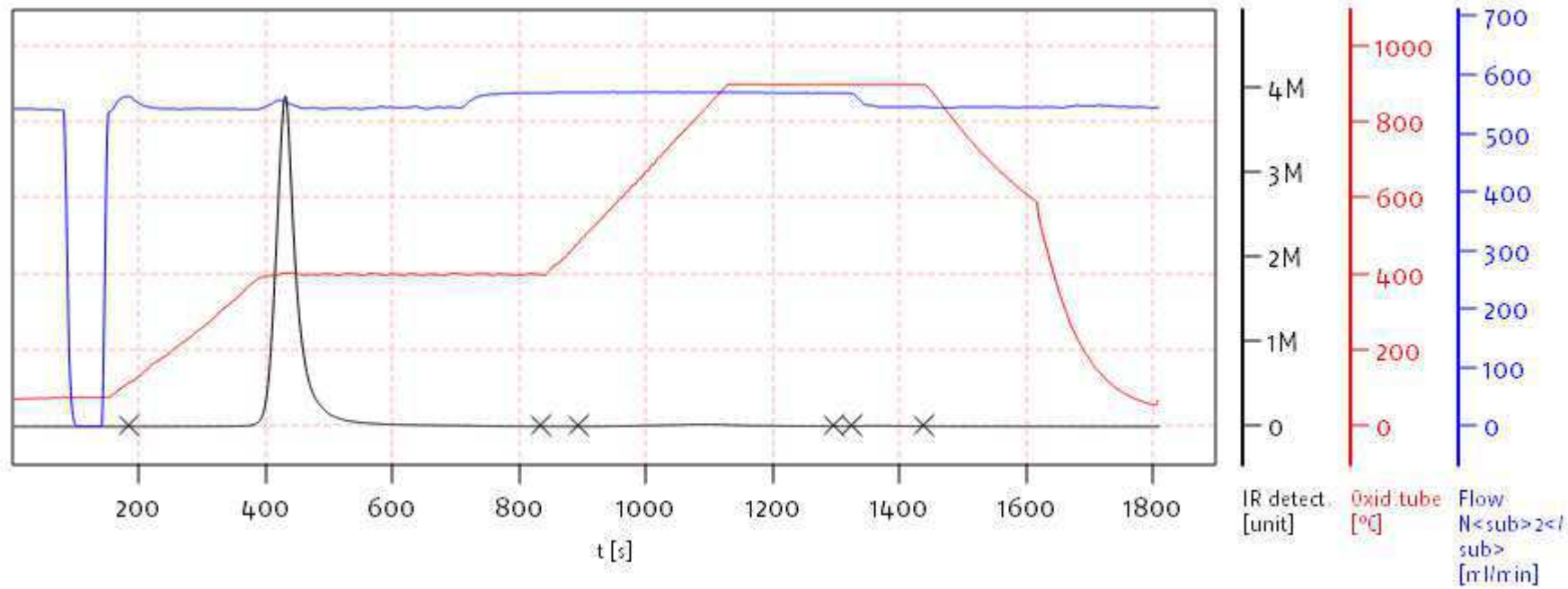
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
148	59	SKL0336-CCVC	19.70		CARBON	12/31/2022 5:17 PM	bl	44.187	5 769 864	45.350	0.000	26 333	174 532	44.187	1.163	0.9791	1.0000



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Balance: BAL3
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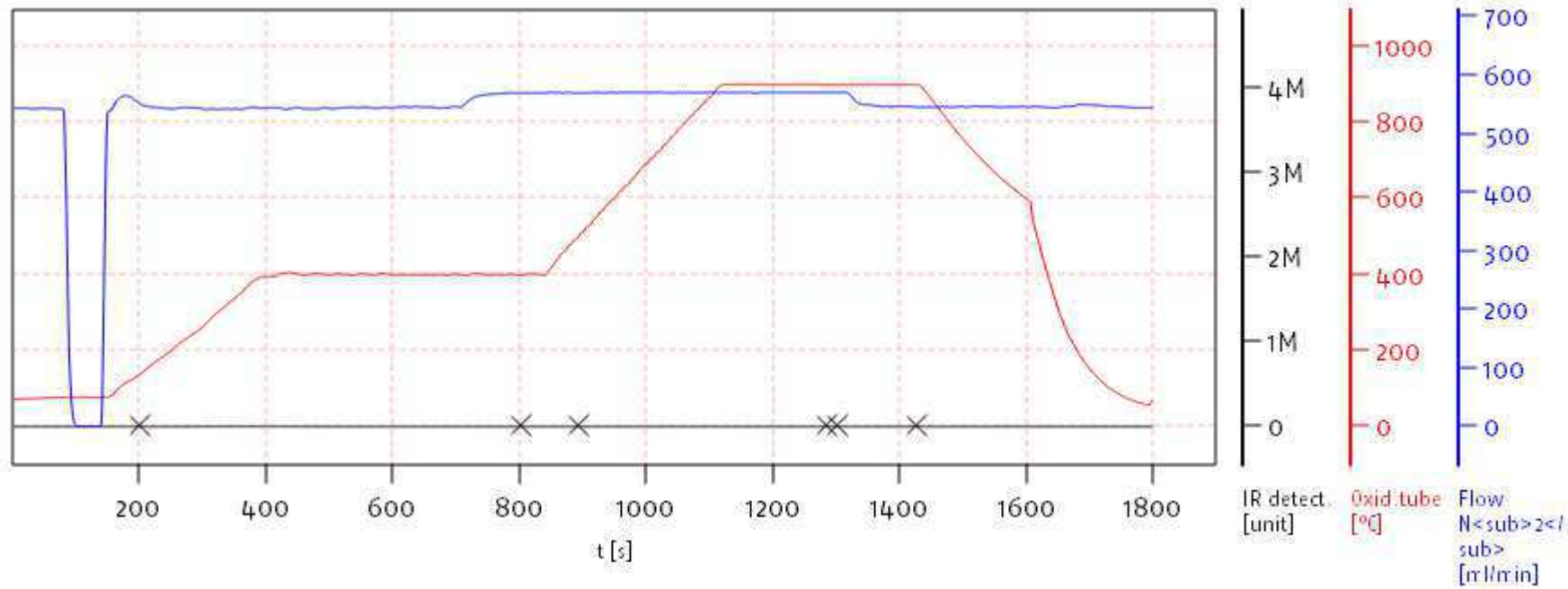
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
149	60	SKL0336-CCBC	512.20		CARBON	12/31/2022 5:48 PM	bl,C3u,C2u	0.000	11 093	0.000	0.000	864	1 929	0.000	0.000	0.9791	1.0000



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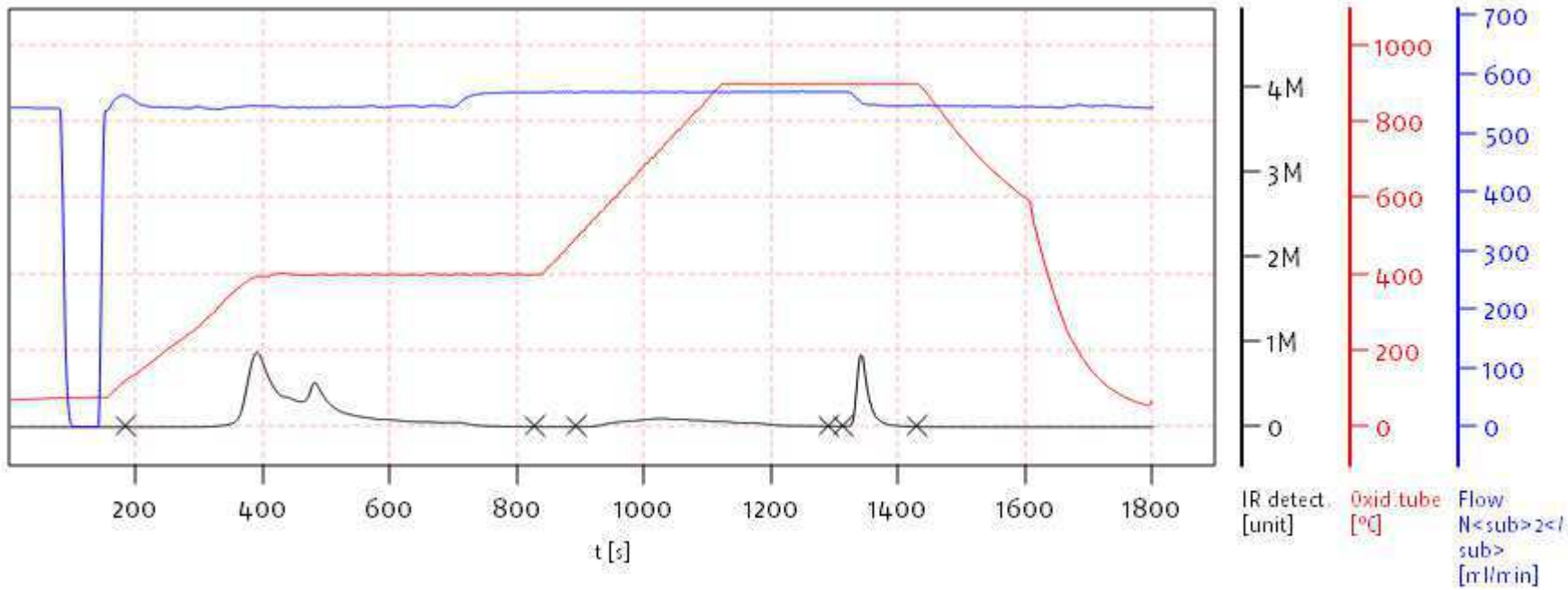
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
150	61	22L0329-30	561.70		CARBON	12/31/2022 6:18 PM	bl	1.080	3 345 240	1.279	0.184	694 697	749 214	0.895	0.199	0.9791	1.0000



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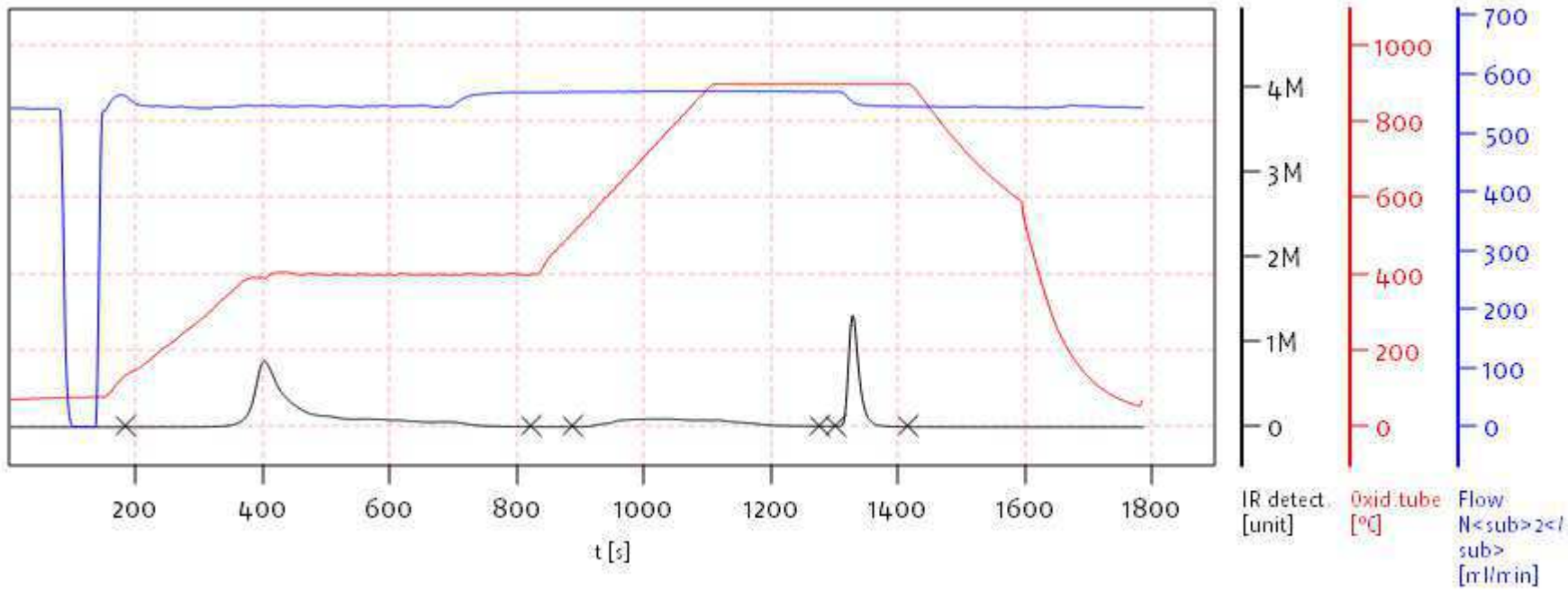
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
151	62	22L0329-31	532.90		CARBON	12/31/2022 6:48 PM	bl	0.960	2 437 504	1.180	0.274	970 845	785 419	0.686	0.220	0.9791	1.0000



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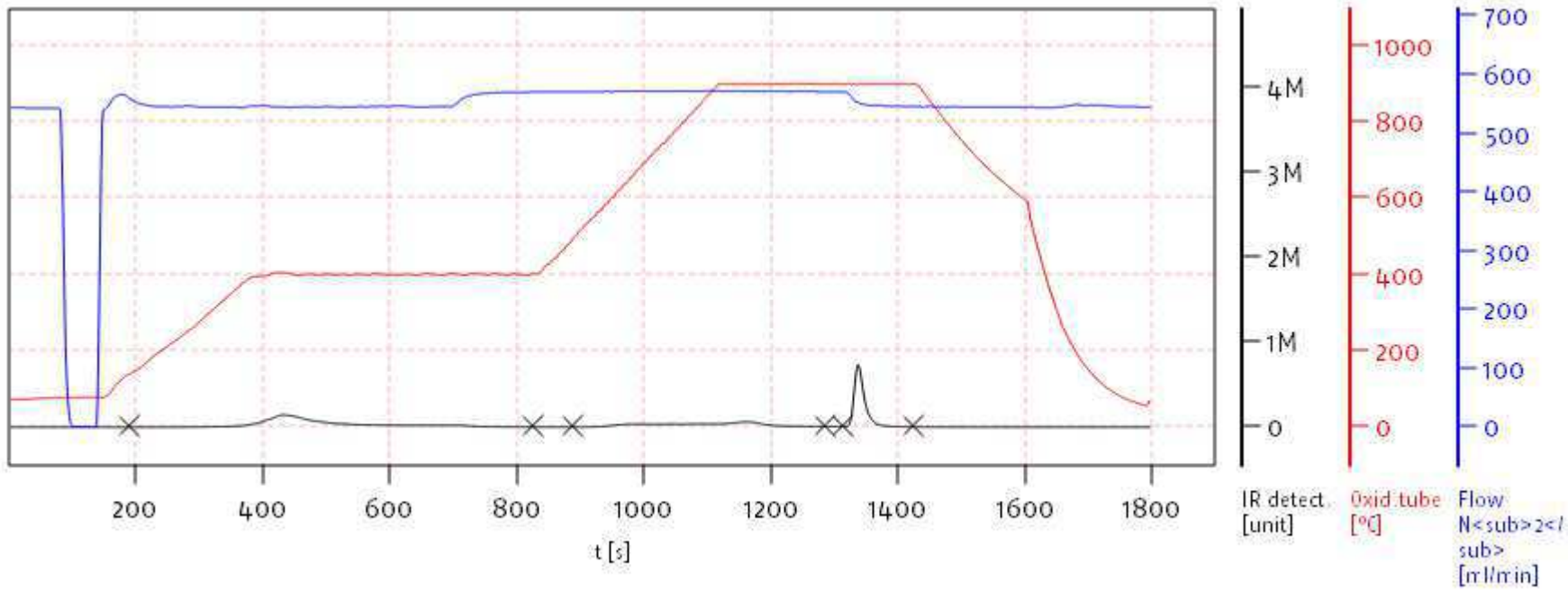
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
152	63	22L0329-32	636.70		CARBON	12/31/2022 7:19 PM	bl	0.278	678 324	0.369	0.123	531 334	403 052	0.155	0.092	0.9791	1.0000



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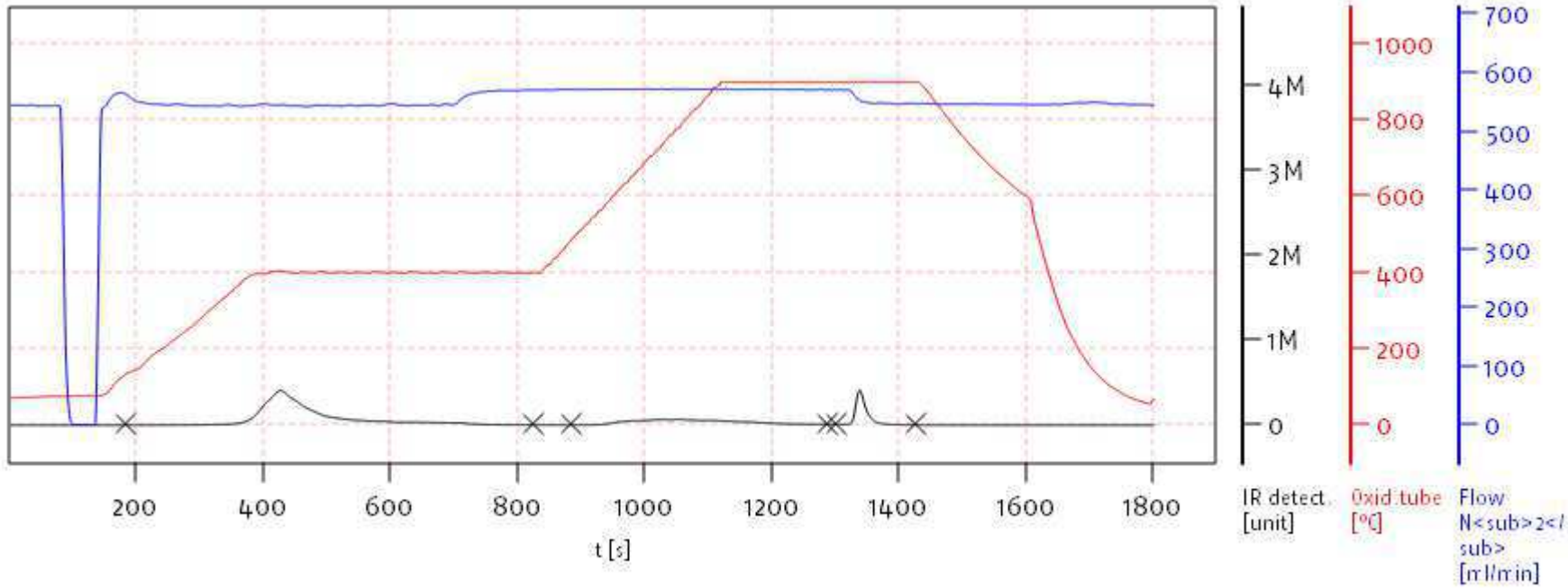
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
153	64	22L0329-33	563.70		CARBON	12/31/2022 7:49 PM	bl	0.483	1 534 676	0.621	0.078	310 333	528 147	0.405	0.138	0.9791	1.0000



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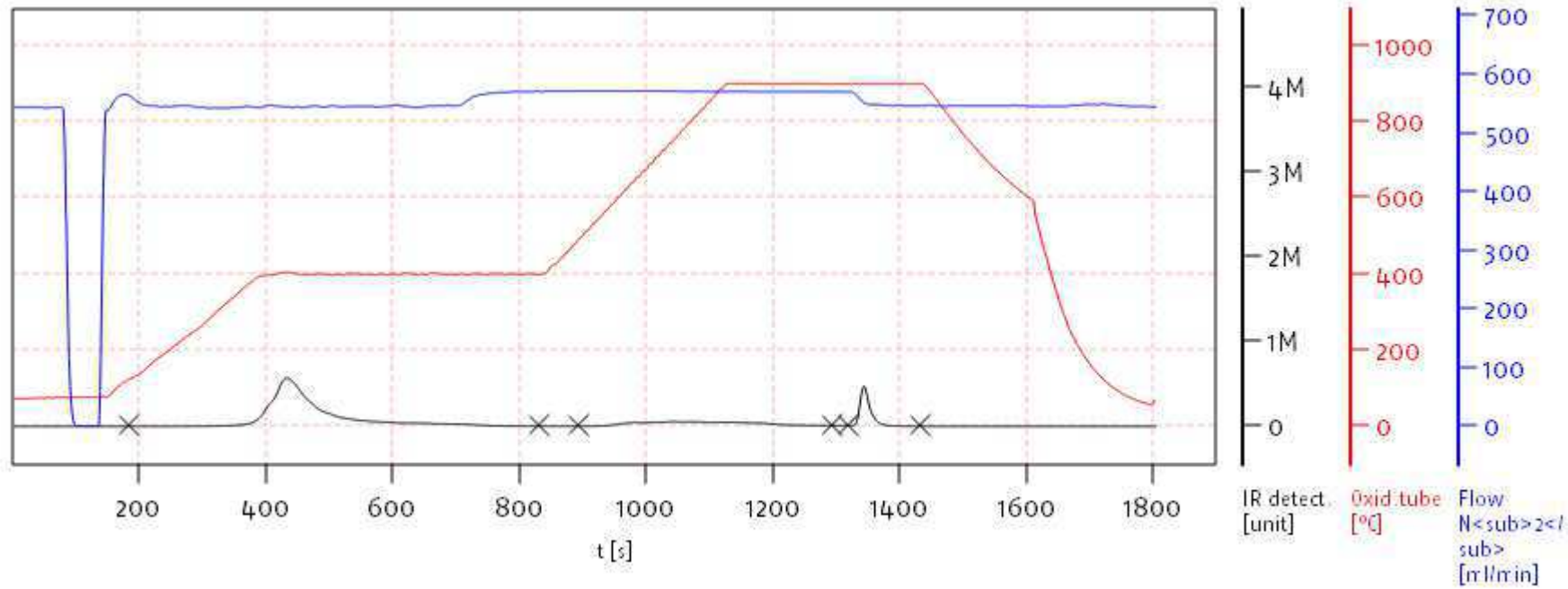
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
154	65	22L0329-34	654.60		CARBON	12/31/2022 8:20 PM	bl	0.512	1 924 577	0.620	0.072	331 303	485 000	0.439	0.108	0.9791	1.0000



Name:

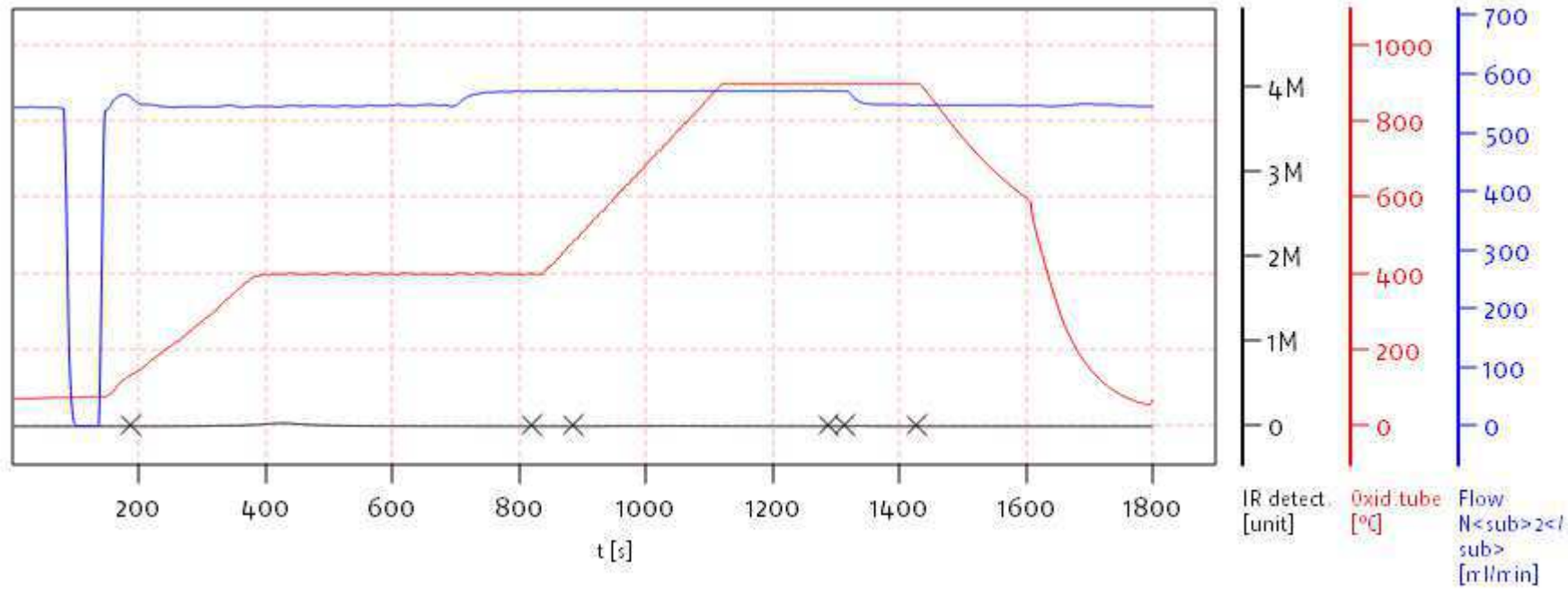
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
155	66	22L0329-35	554.00		CARBON	12/31/2022 8:50 PM	bl	0.041	175 811	0.043	0.000	5 283	32 621	0.041	0.002	0.9791	1.0000



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Serial No: 0300.181017
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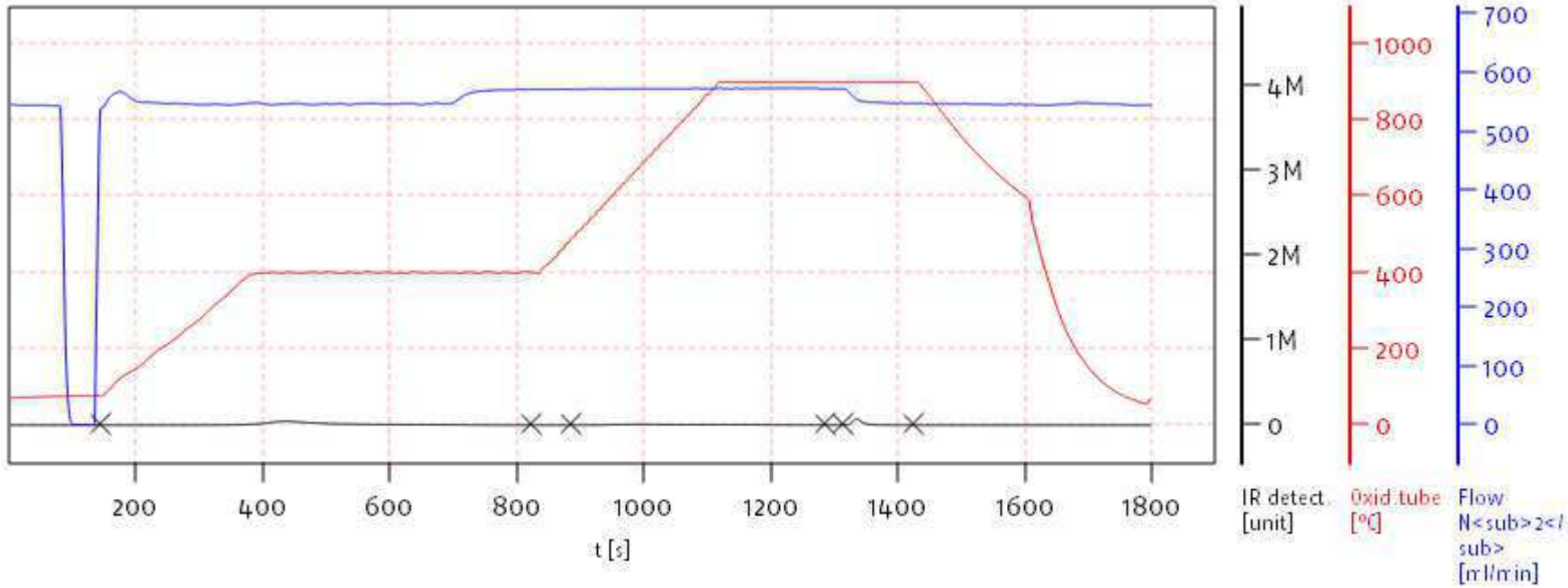
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
156	67	22L0329-36	565.00		CARBON	12/31/2022 9:20 PM	bl	0.058	215 475	0.069	0.007	51 654	69 911	0.051	0.012	0.9791	1.0000



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Serial No: 0300.181017
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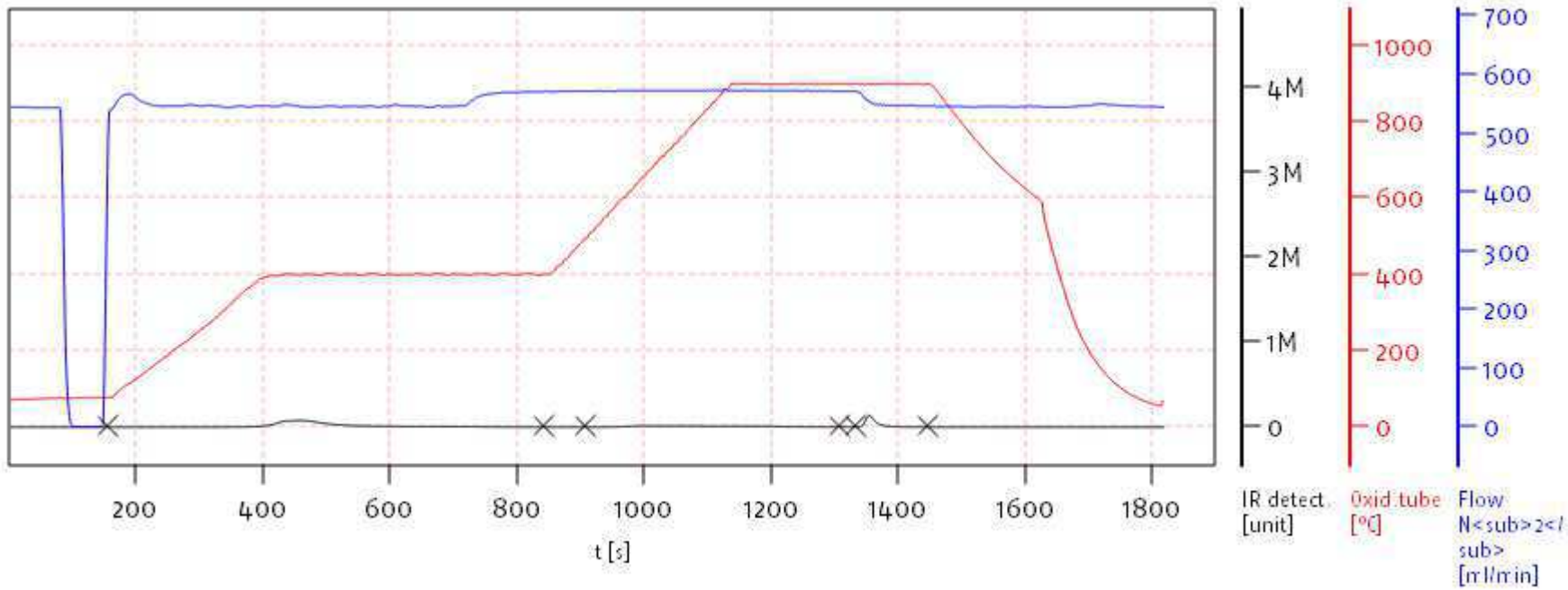
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
157	68	22L0329-37	531.80		CARBON	12/31/2022 9:51 PM	bl	0.110	336 501	0.137	0.022	100 910	120 109	0.088	0.027	0.9791	1.0000



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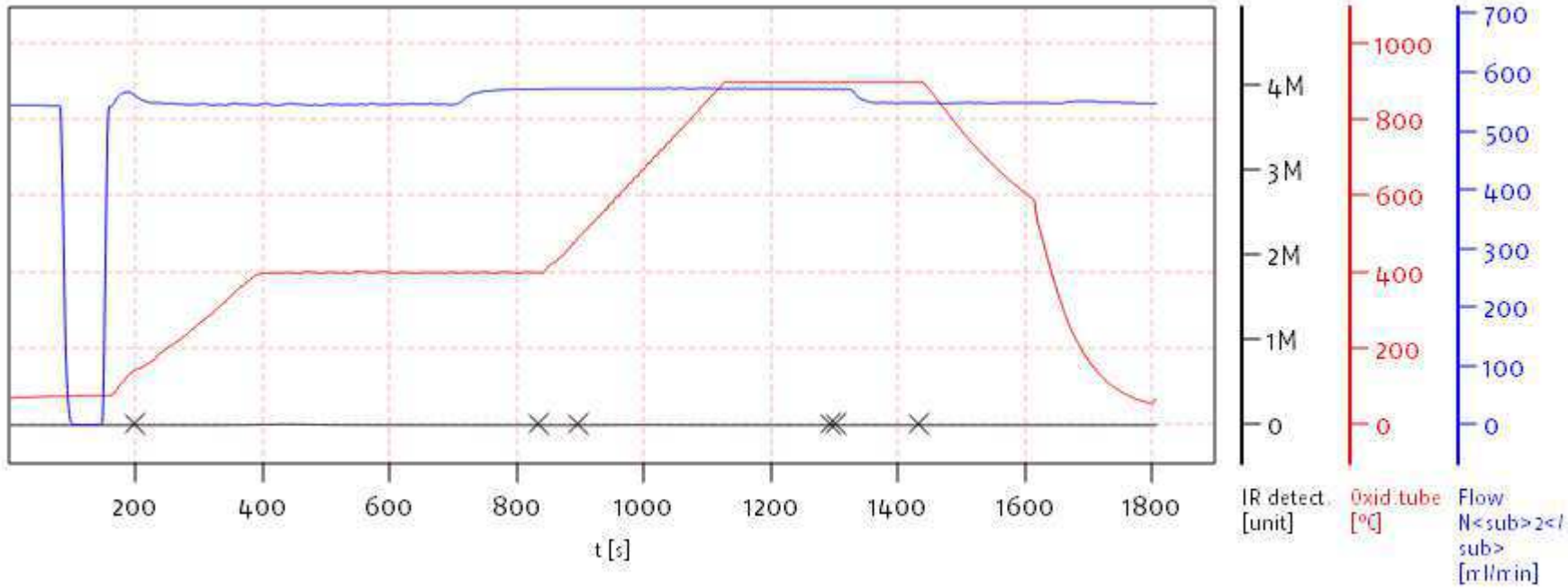
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
158	69	22L0329-38	511.30		CARBON	12/31/2022 10:22 PM	bl,C2u	0.006	45 577	0.006	0.000	2 073	12 913	0.006	0.000	0.9791	1.0000



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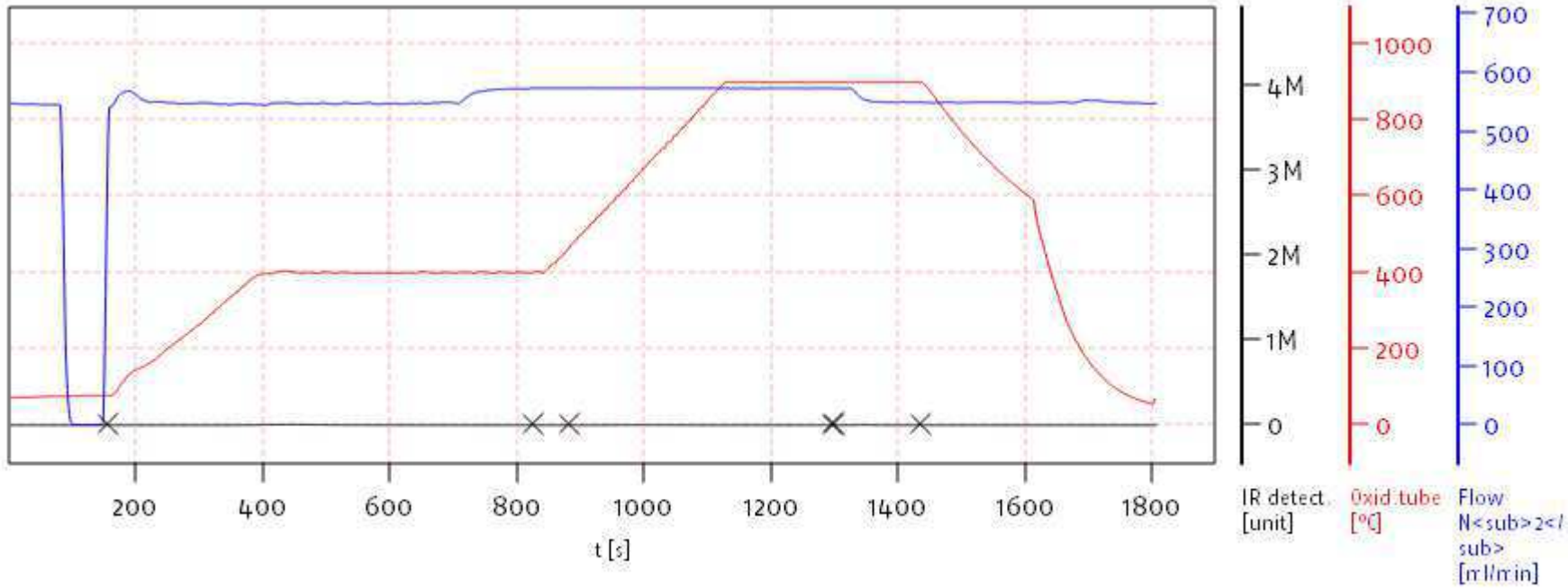
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
159	70	22L0329-39	538.80		CARBON	12/31/2022 10:52 PM	bl	0.003	38 567	0.003	0.000	4 278	11 875	0.003	0.000	0.9791	1.0000



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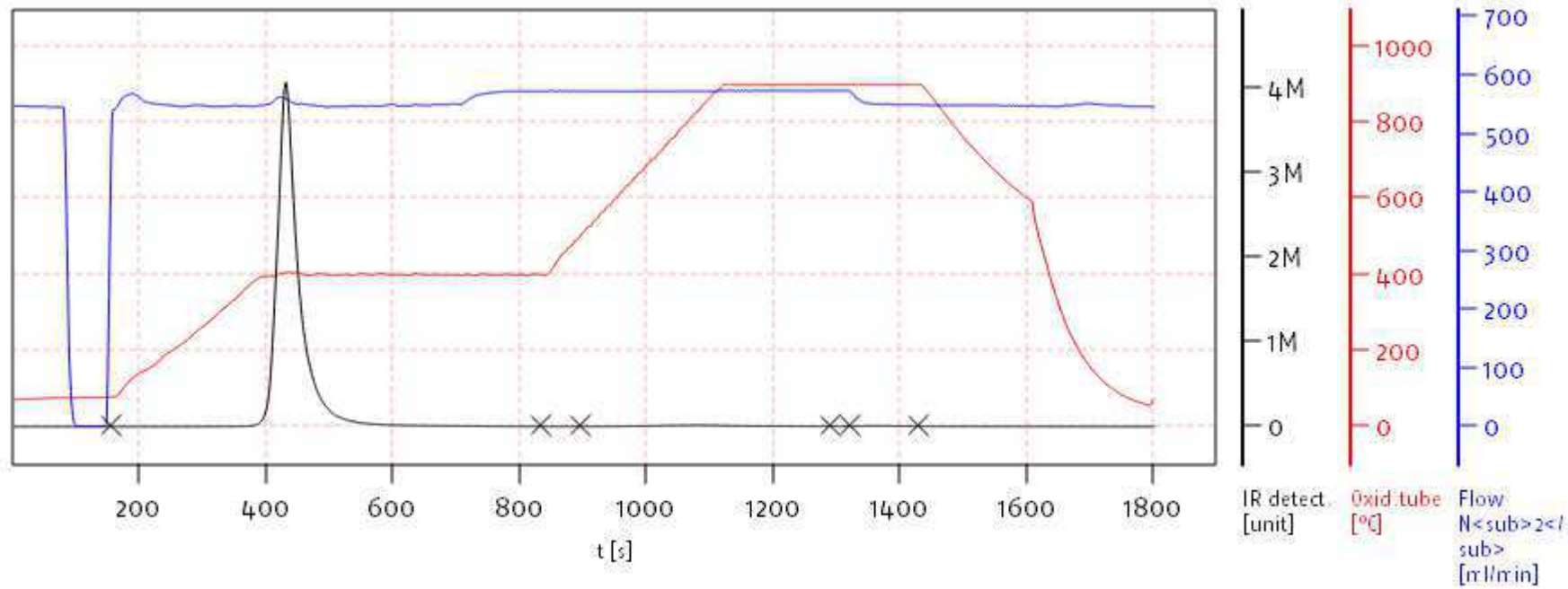
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
160	71	SKL0336-CCVD	20.70		CARBON	12/31/2022 11:23 PM	bl	44.344	6 082 897	44.986	0.000	25 317	112 404	44.344	0.642	0.9791	1.0000



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Access: soliTOC superuser

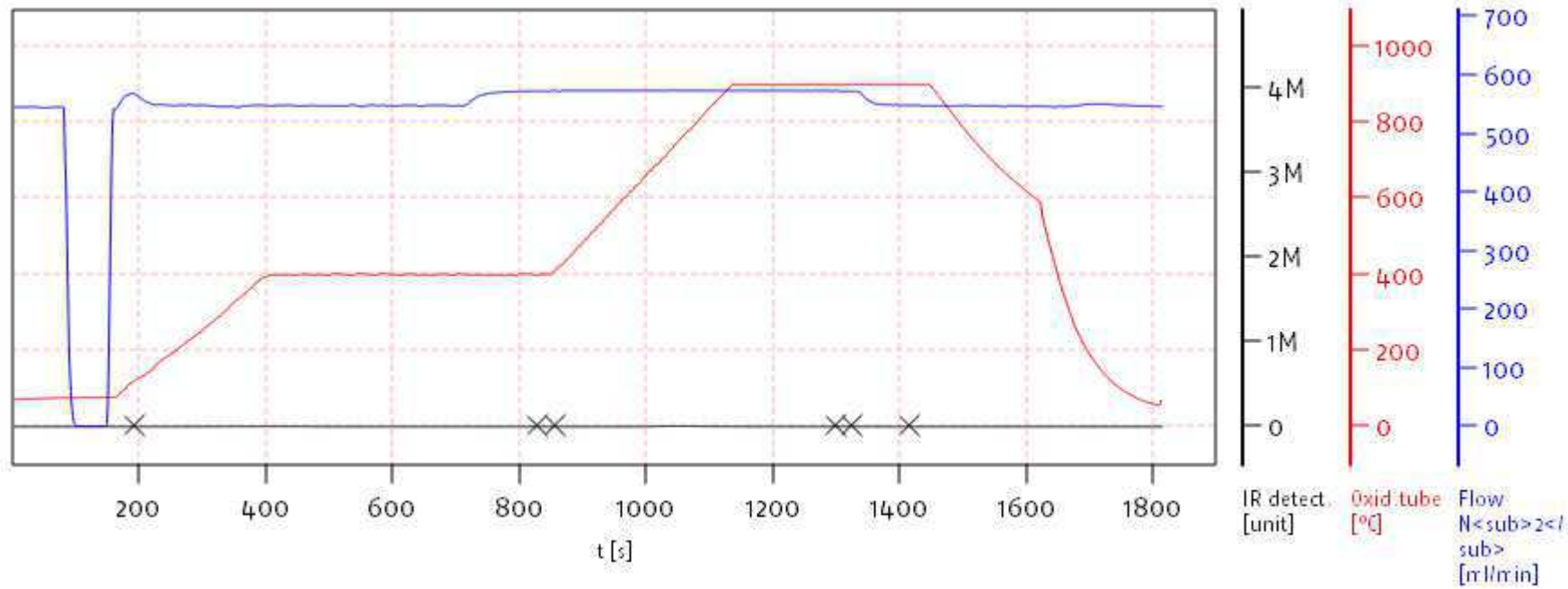
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
161	72	SKL0336-CCBD	510.00		CARBON	12/31/2022 11:53 PM	bl,C2u	0.000	18 170	0.000	0.000	1 299	27 248	0.000	0.000	0.9791	1.0000



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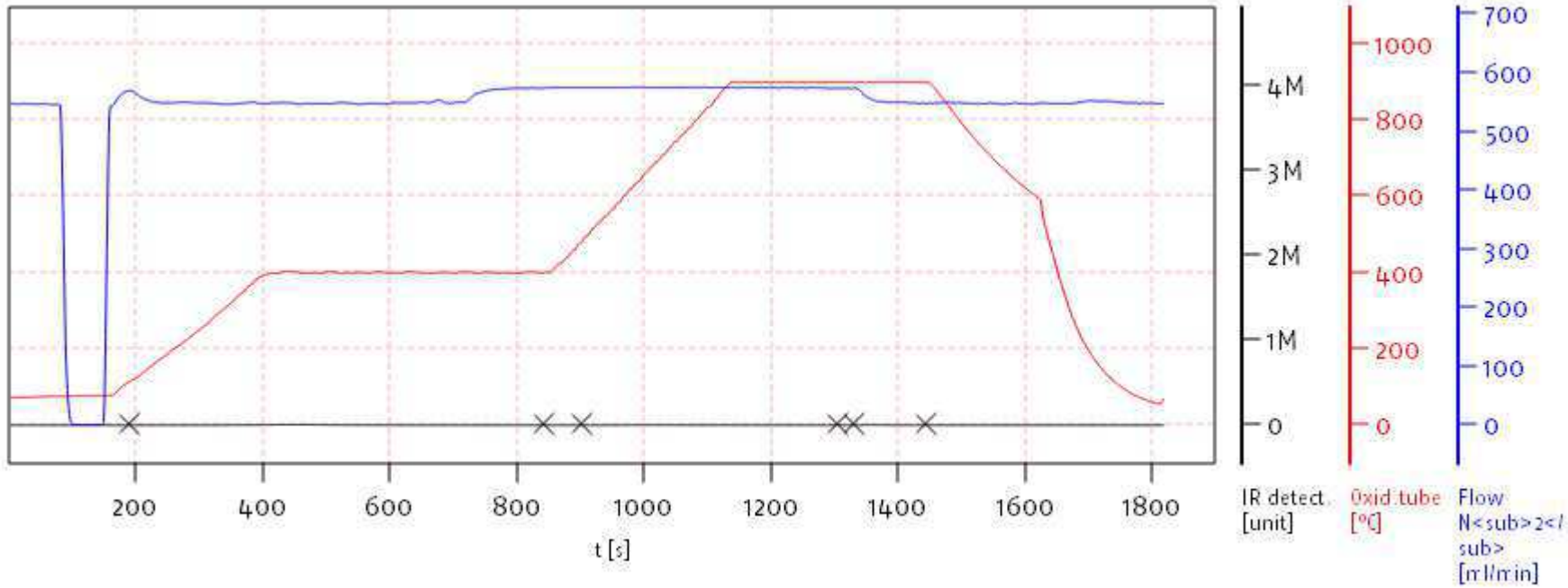
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
162	73	22L0329-40	508.40		CARBON	1/1/2023 12:24 AM	bl	0.003	38 201	0.003	0.000	4 604	12 641	0.003	0.000	0.9791	1.0000



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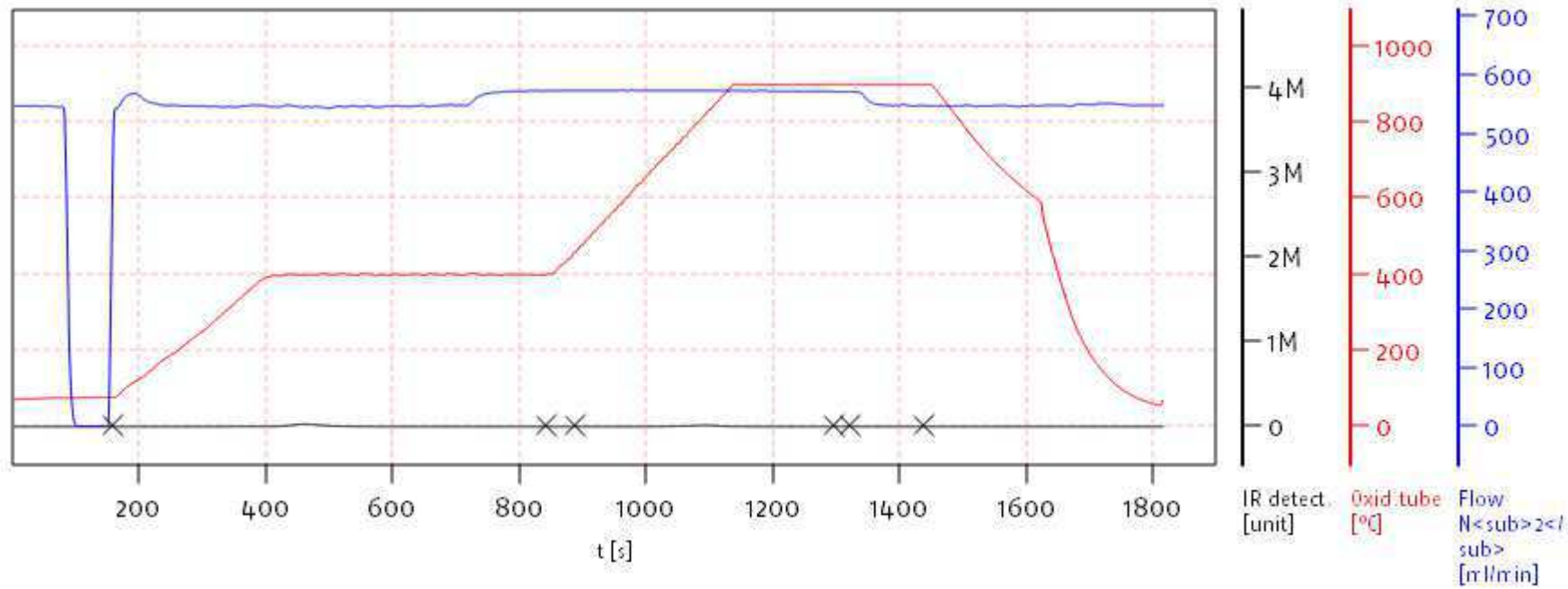
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
163	74	BKL0652-MRL1	548.60		CARBON	1/1/2023 12:55 AM	bl,C2u	0.013	73 613	0.016	0.000	678	38 165	0.013	0.003	0.9791	1.0000



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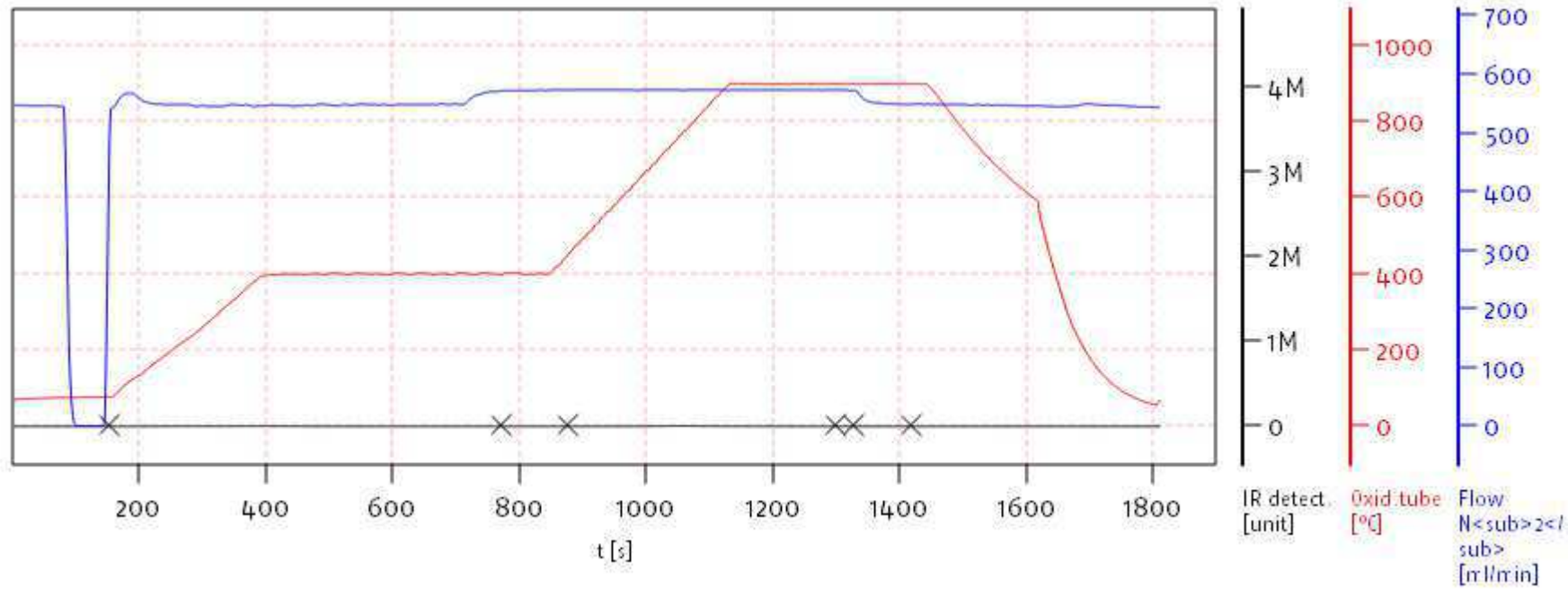
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
164	75	BKL0652-BLK1	511.00		CARBON	1/1/2023 1:25 AM	bl,C2u	0.000	20 971	0.000	0.000	644	21 914	0.000	0.000	0.9791	1.0000



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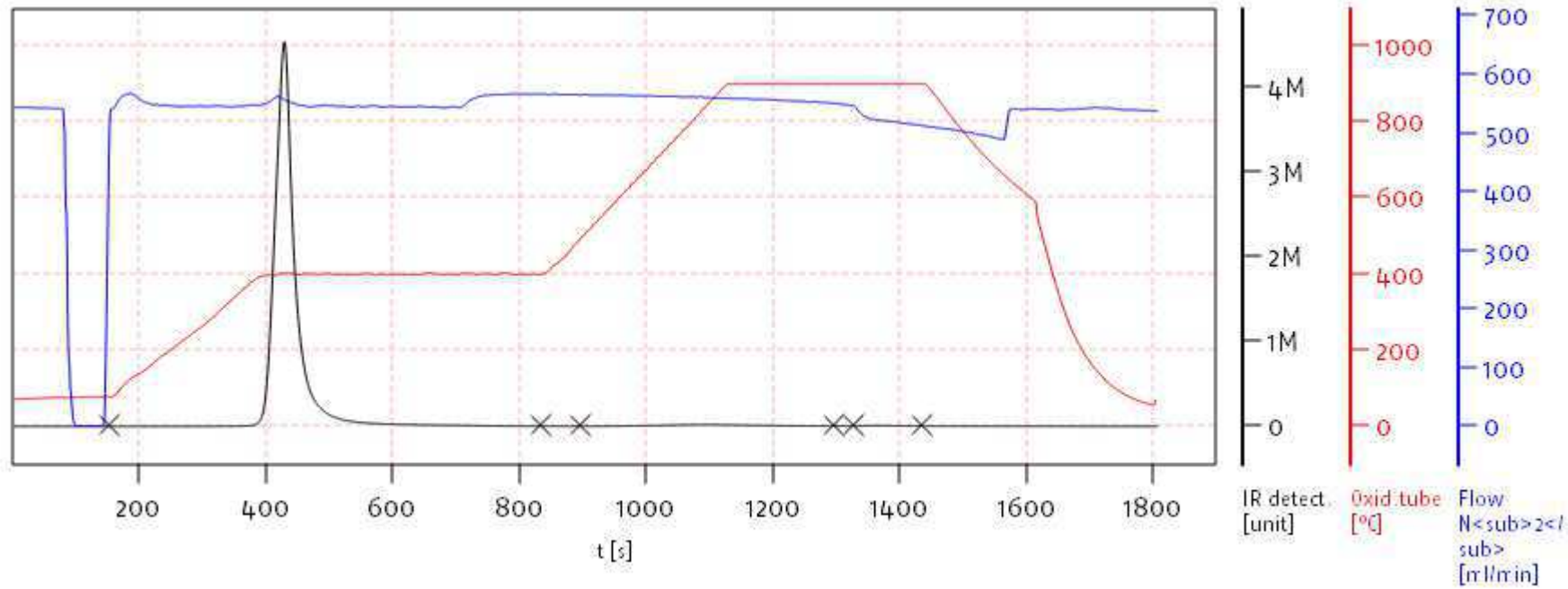
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
165	76	BKL0652-BS1	21.30		CARBON	1/1/2023 1:56 AM	bl	44.428	6 269 704	45.307	0.003	26 980	147 586	44.424	0.880	0.9791	1.0000



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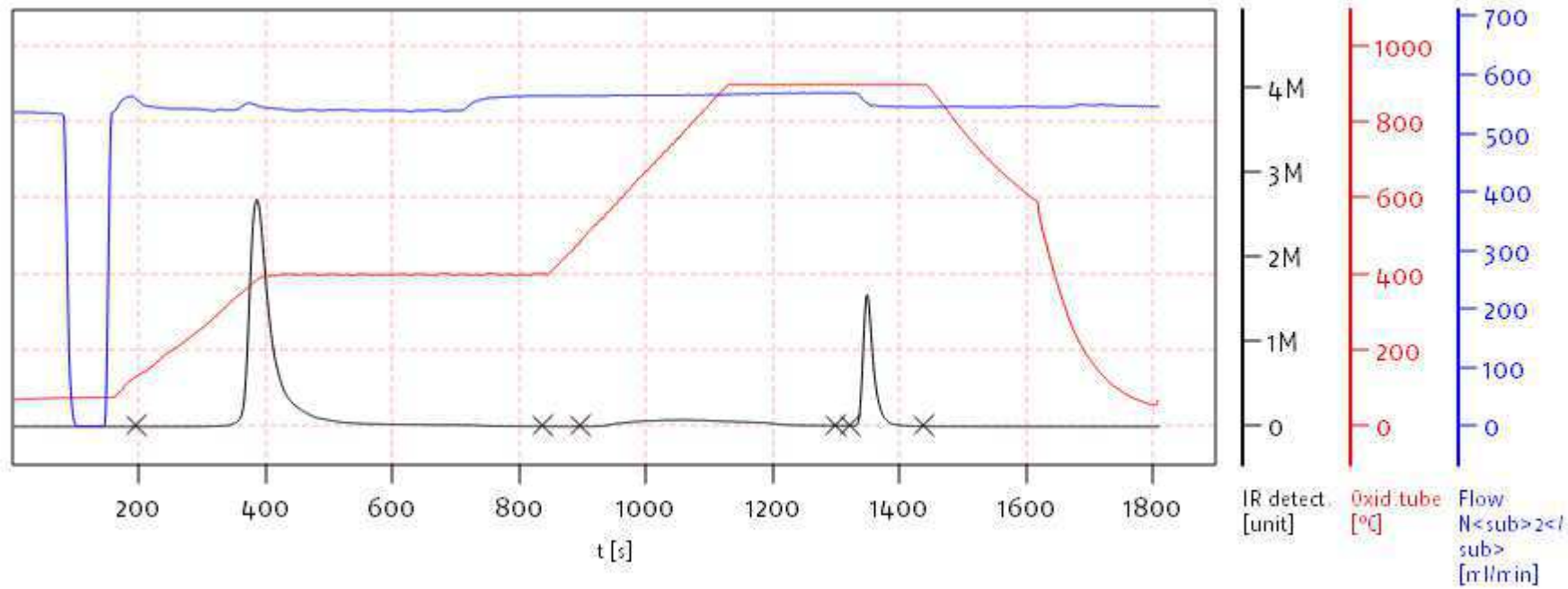
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
166	77	BKL0652-SRM1	274.70		CARBON	1/1/2023 2:26 AM	bl	2.992	4 317 746	3.355	0.624	1 134 237	670 186	2.368	0.363	0.9791	1.0000



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Balance: BAL3
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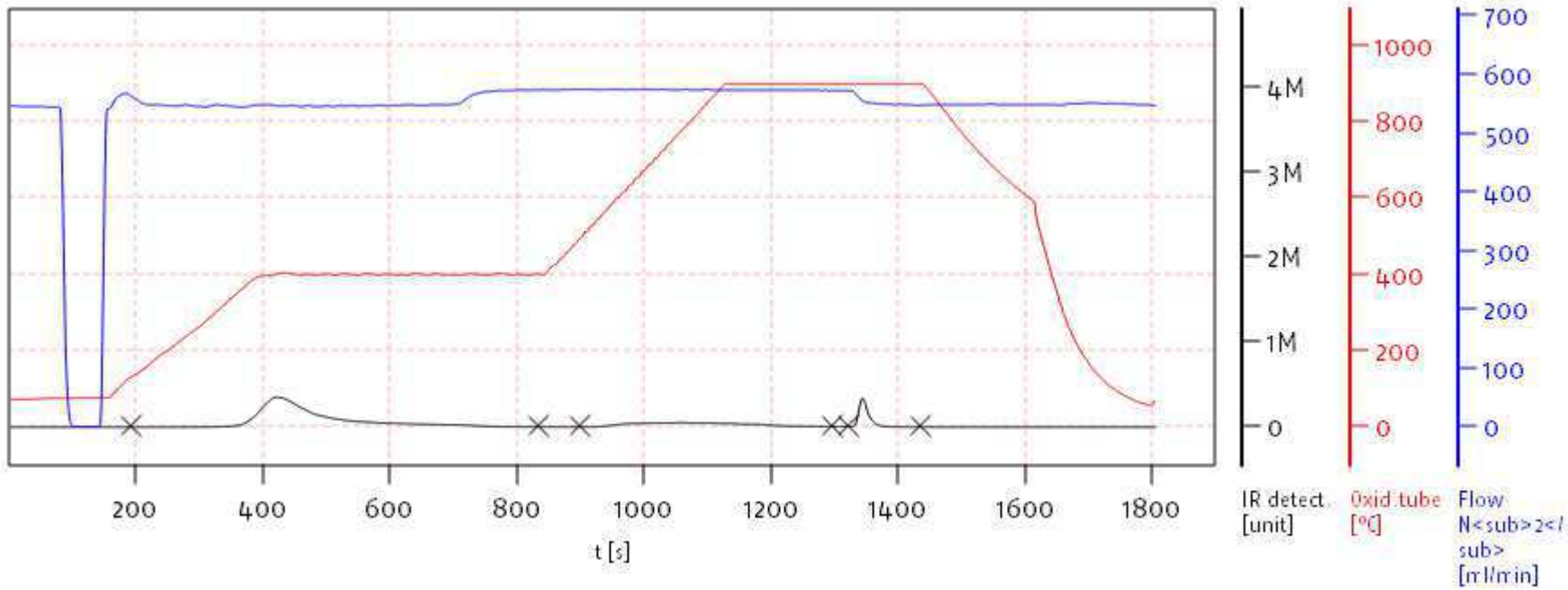
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
167	78	22L0329-41	525.30		CARBON	1/1/2023 2:57 AM	bl	0.498	1 543 037	0.621	0.060	230 904	443 169	0.438	0.123	0.9791	1.0000



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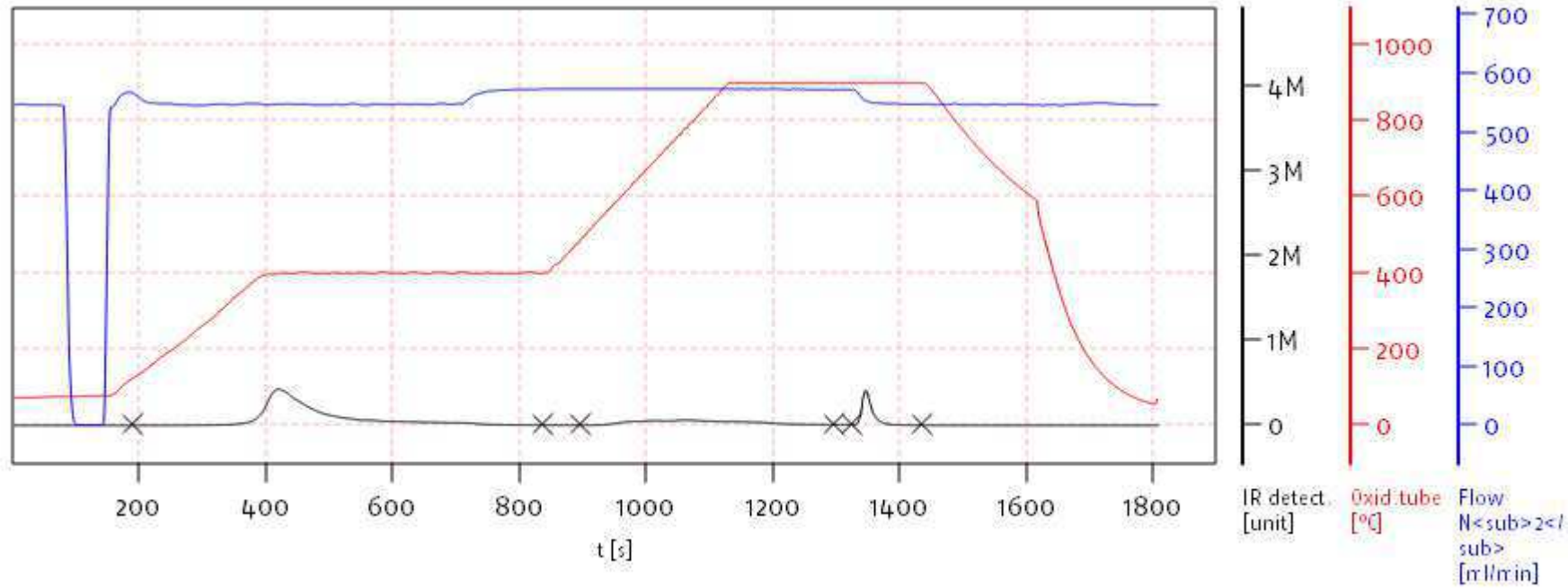
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
168	79	BKL0652-DUP1	572.30		CARBON	1/1/2023 3:27 AM	bl	0.506	1 662 421	0.634	0.072	294 170	501 341	0.433	0.128	0.9791	1.0000



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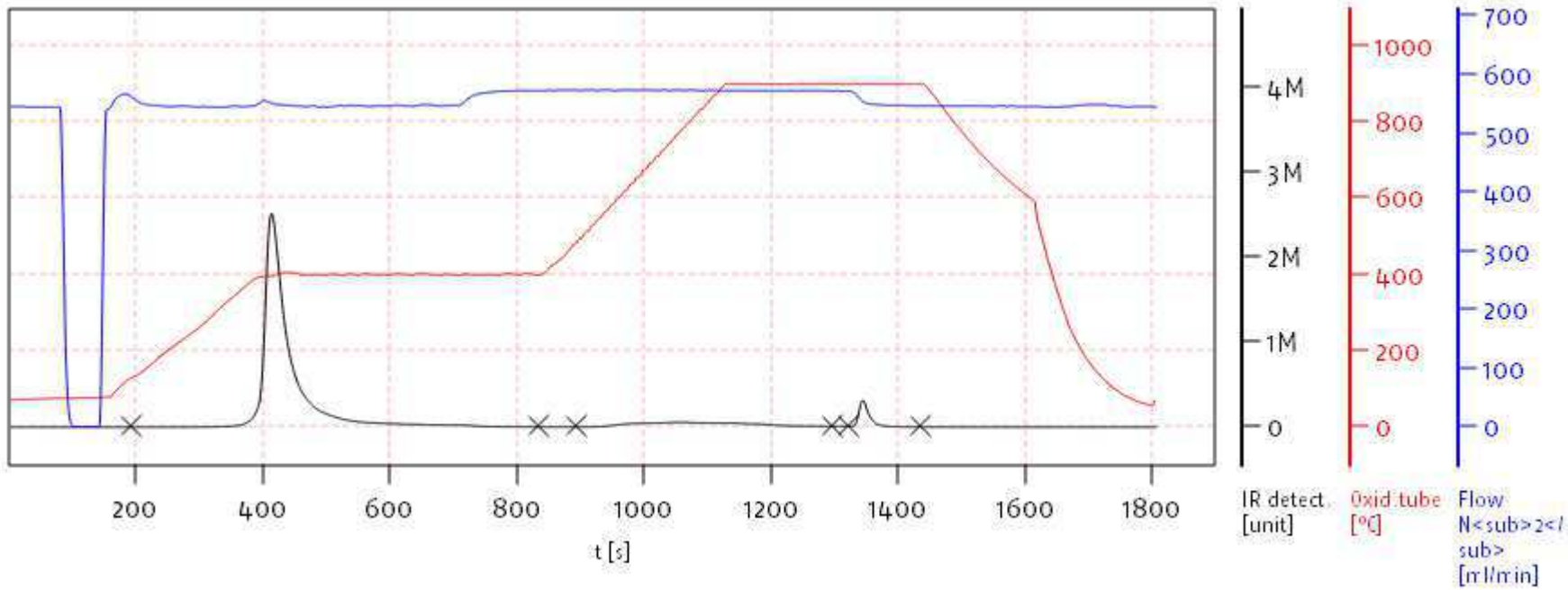
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
169	80	BKL0652-MS1	511.60	0.0088	CARBON	1/1/2023 3:58 AM	bl	1.299	4 204 636	1.436	0.061	227 545	479 384	1.238	0.137	0.9791	1.0000



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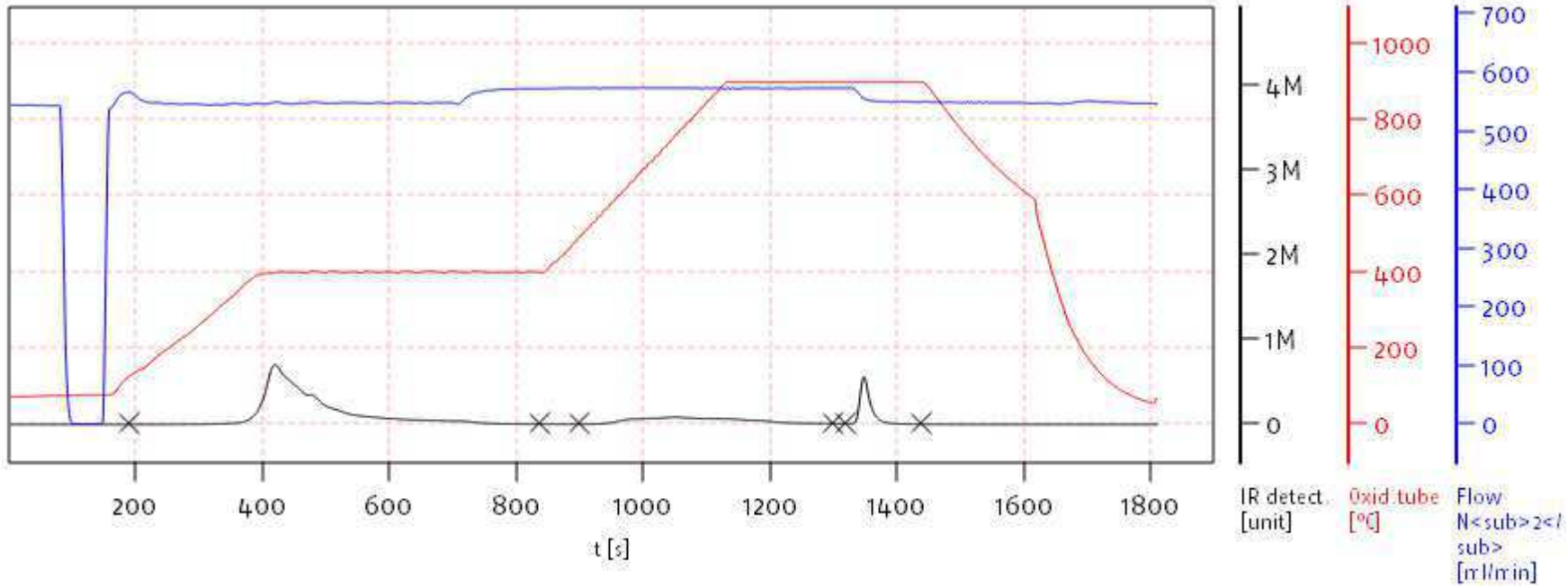
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
170	81	22L0329-42	639.30		CARBON	1/1/2023 4:28 AM	bl	0.697	2 572 338	0.852	0.093	410 589	668 854	0.604	0.156	0.9791	1.0000



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Balance: BAL3
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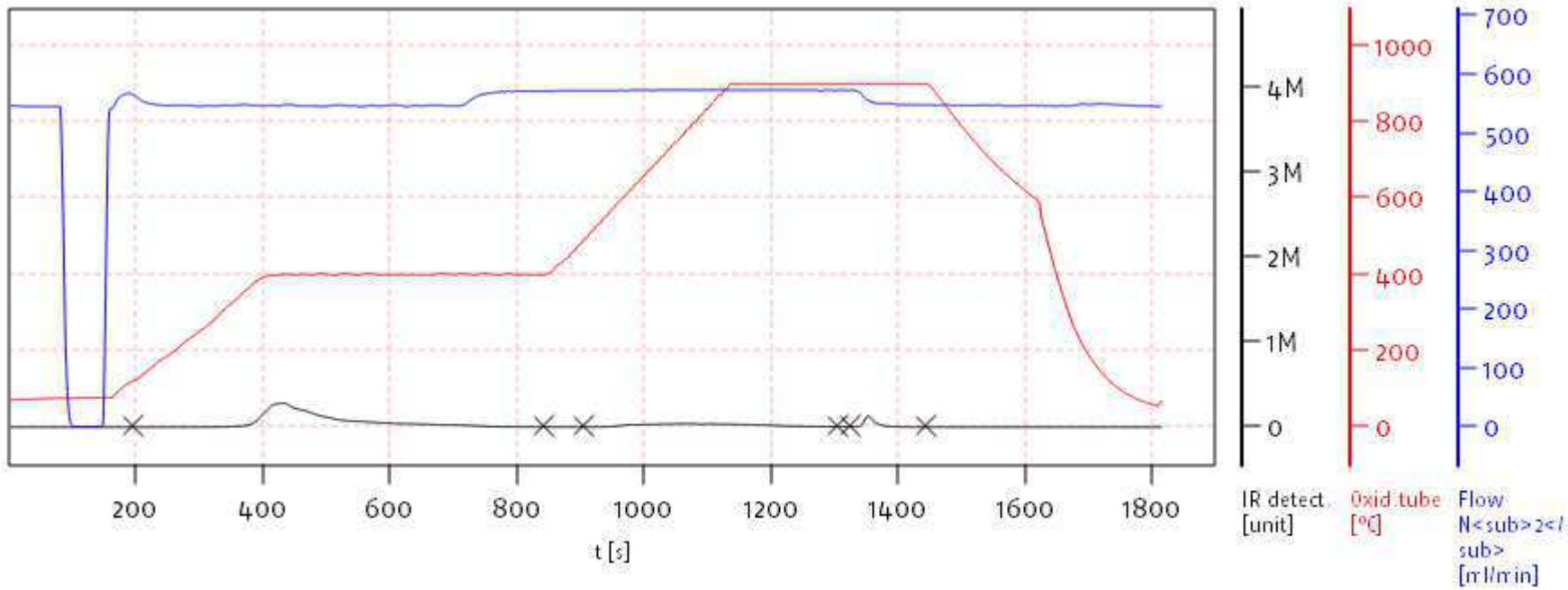
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
171	82	22L0329-43	504.10		CARBON	1/1/2023 4:59 AM	bl	0.408	1 306 683	0.503	0.023	101 968	335 027	0.385	0.095	0.9791	1.0000



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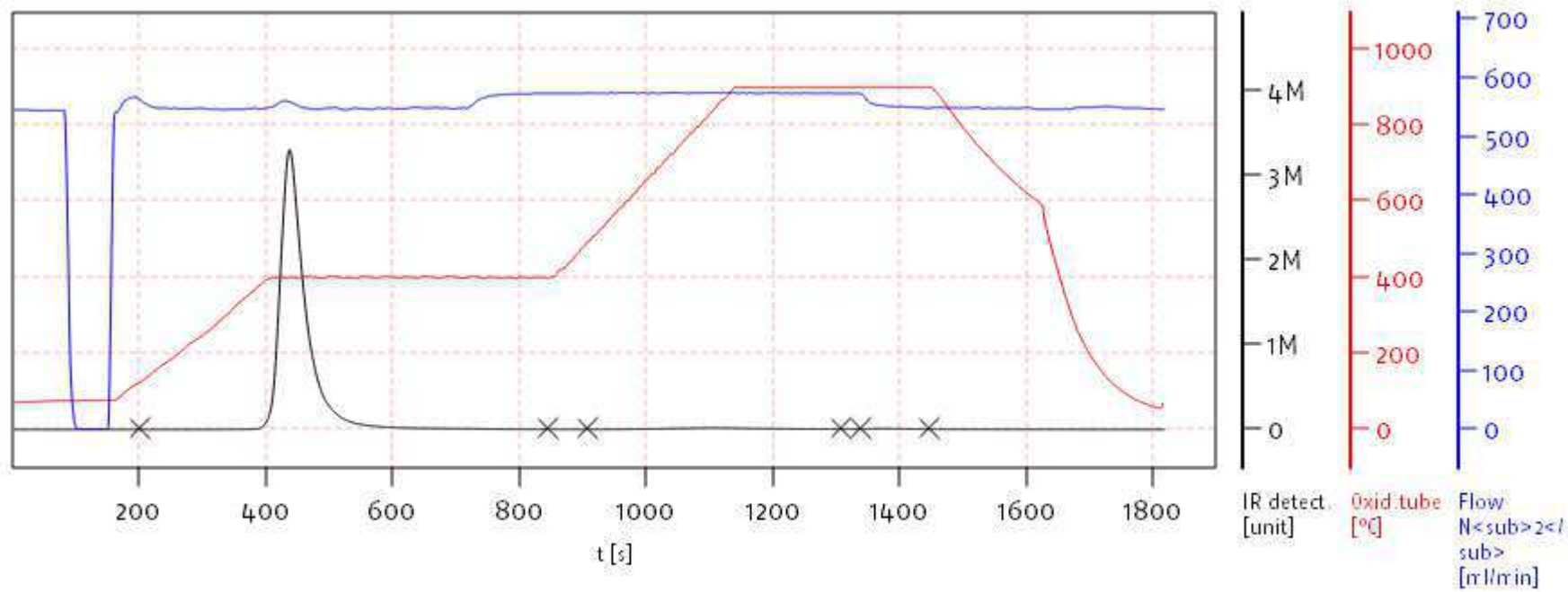
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
172	83	SKL0336-CCVE	20.00		CARBON	1/1/2023 5:30 AM	bl	43.330	5 741 152	44.176	0.024	29 599	135 812	43.306	0.846	0.9791	1.0000



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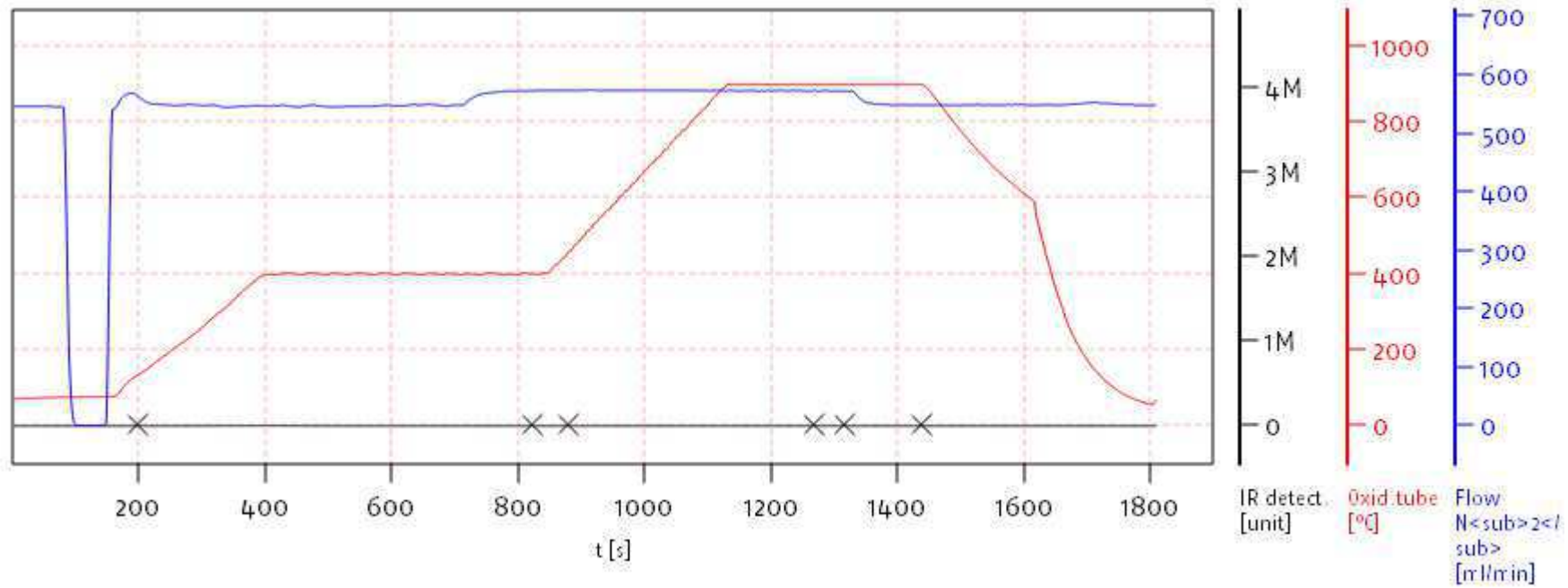
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 122822 DOE from: 1/3/2023 7:07 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
173	84	SKL0336-CCBE	526.20		CARBON	1/1/2023 6:00 AM	bl,C3u,C2u	0.000	12 891	0.000	0.000	829	2 244	0.000	0.000	0.9791	1.0000



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Access: soliTOC superuser

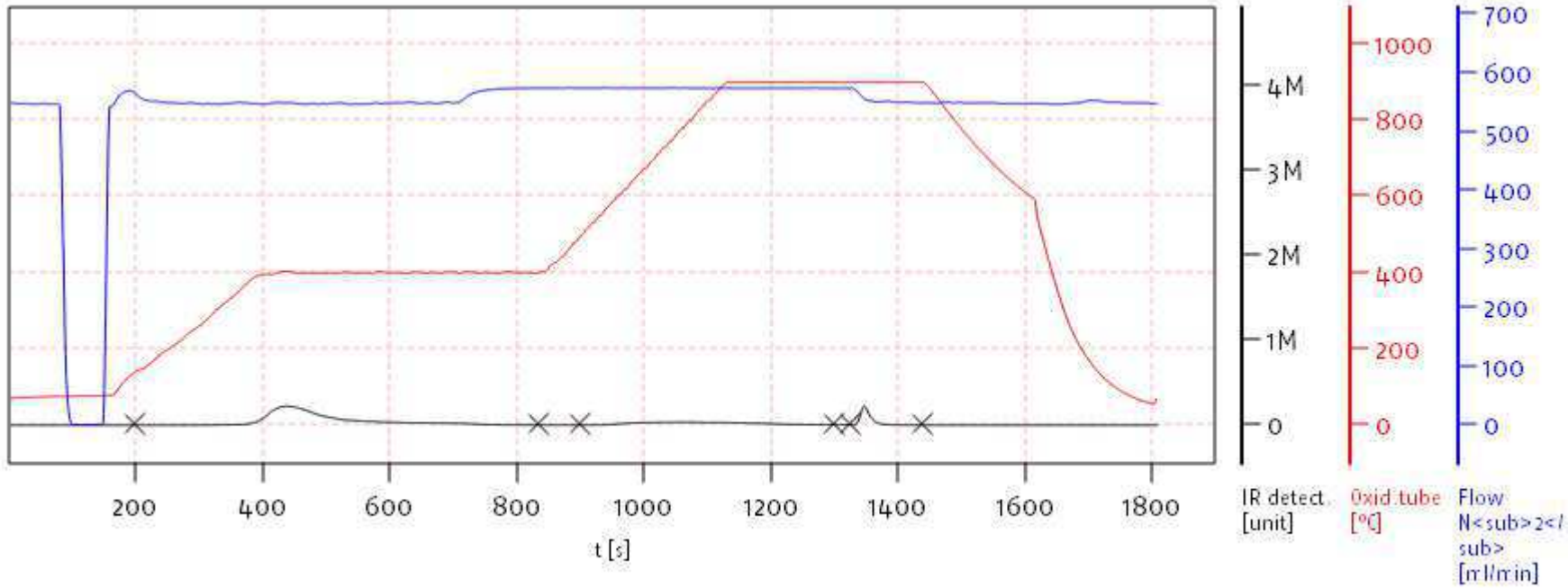
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 122822 DOE from: 1/3/2023 7:07 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
174	85	22L0329-44	538.20		CARBON	1/1/2023 6:31 AM	bl	0.322	1 039 842	0.400	0.037	155 299	295 151	0.285	0.077	0.9791	1.0000



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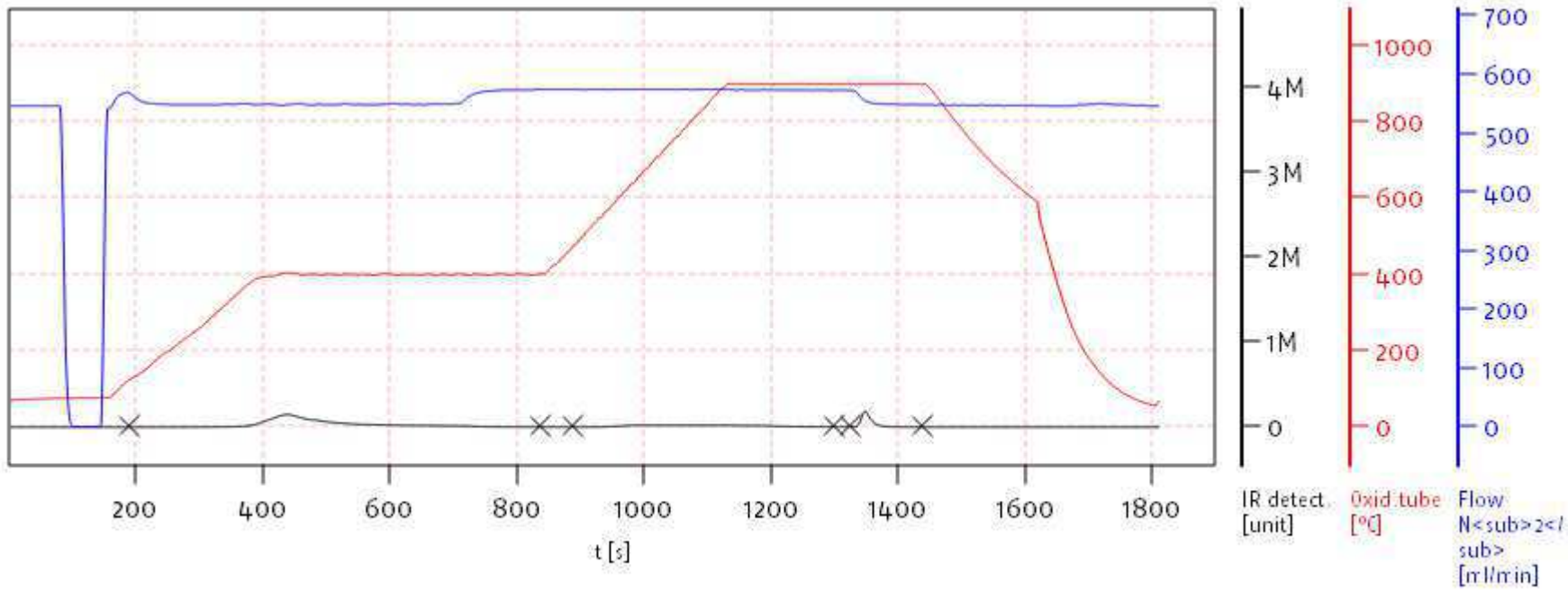
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
175	86	22L0329-45	538.70		CARBON	1/1/2023 7:01 AM	bl	0.211	671 810	0.262	0.030	130 131	203 608	0.182	0.051	0.9791	1.0000



Name:

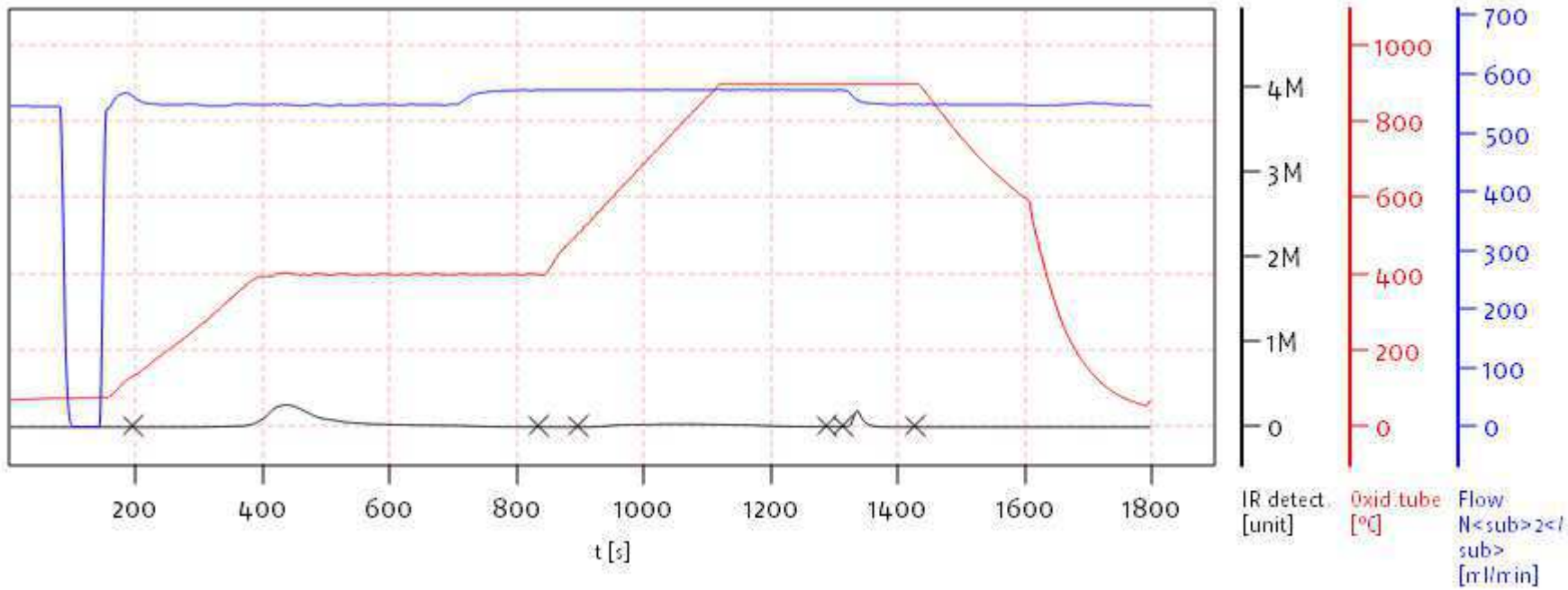
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
176	87	22L0329-46	523.20		CARBON	1/1/2023 7:32 AM	bl	0.337	1 086 433	0.416	0.030	127 029	292 928	0.307	0.079	0.9791	1.0000



Name:

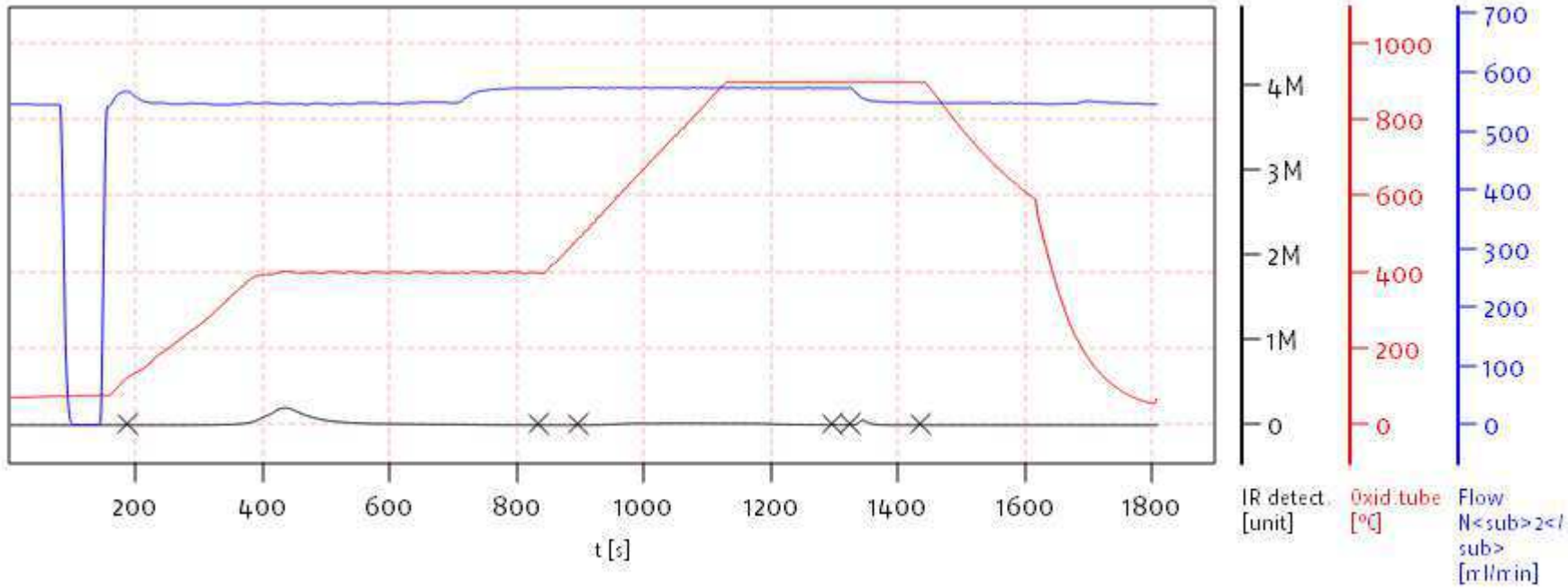
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
177	88	22L0329-47	508.70		CARBON	1/1/2023 8:02 AM	bl	0.216	738 309	0.270	0.004	40 129	203 065	0.212	0.054	0.9791	1.0000



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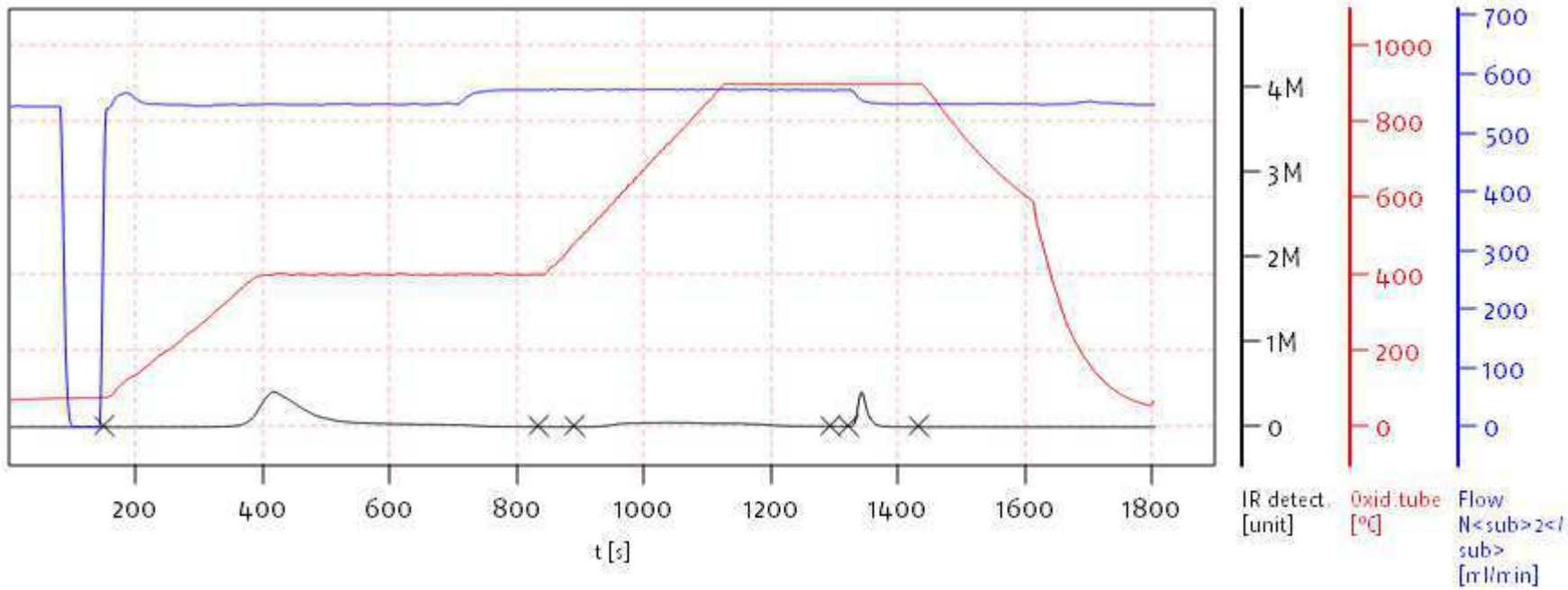
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
178	89	22L0329-48	535.90		CARBON	1/1/2023 8:33 AM	bl	0.504	1 559 791	0.631	0.070	270 408	466 131	0.434	0.127	0.9791	1.0000



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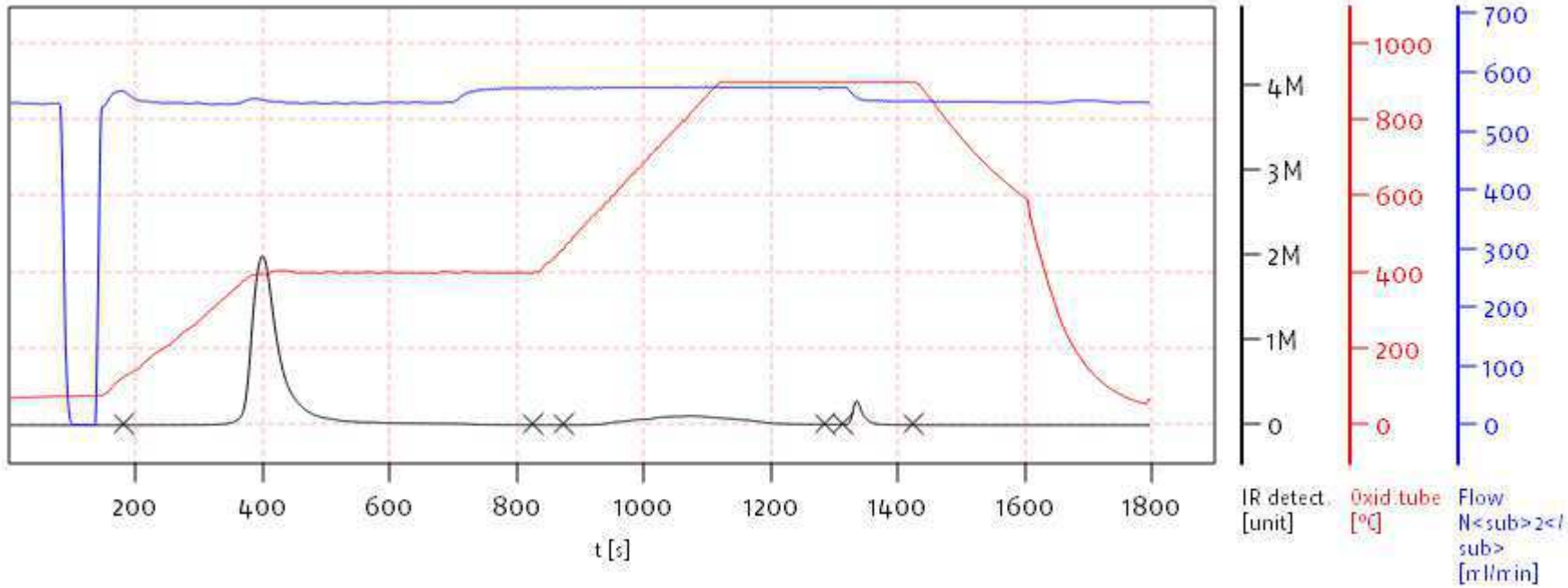
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
179	1	22L0459-01	546.90		CARBON	1/1/2023 9:03 AM	bl	1.132	3 929 880	1.339	0.051	205 048	756 445	1.082	0.207	0.9791	1.0000



Name:

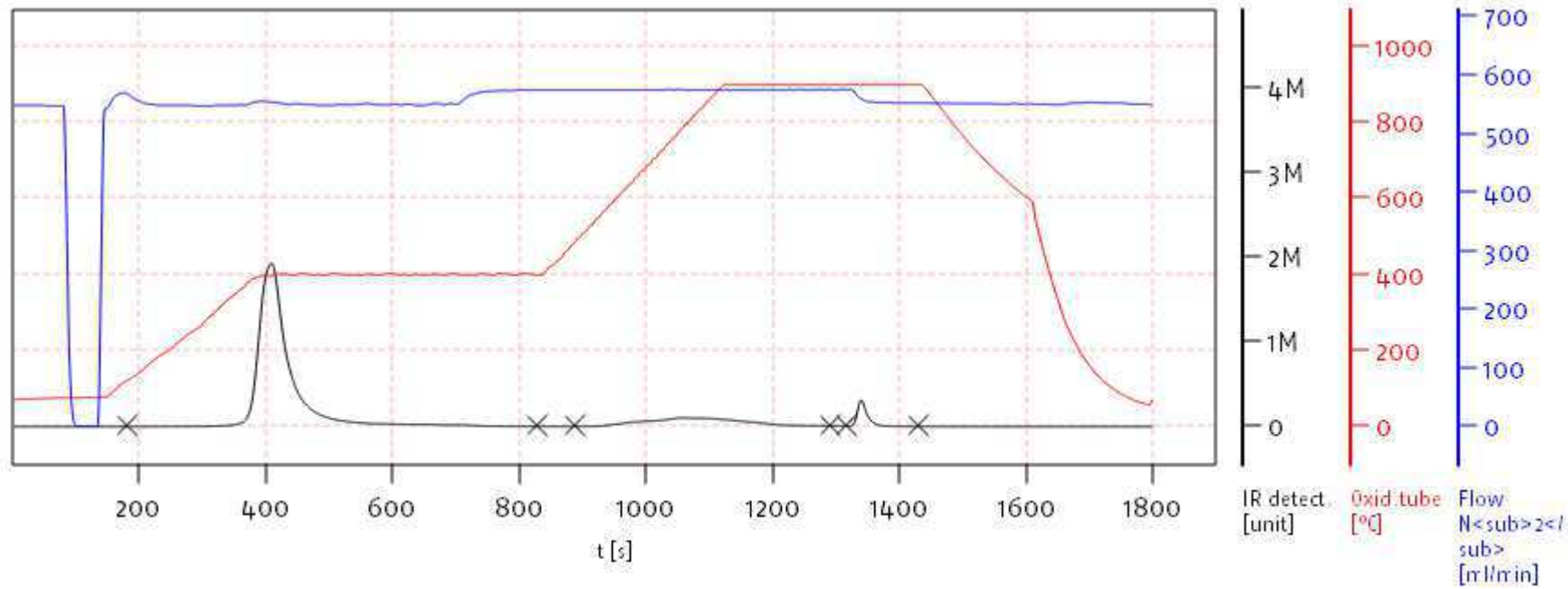
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
180	2	BKL0652-DUP2	525.60		CARBON	1/1/2023 9:34 AM	bl	1.196	3 979 426	1.403	0.057	218 619	728 170	1.140	0.207	0.9791	1.0000



Name:

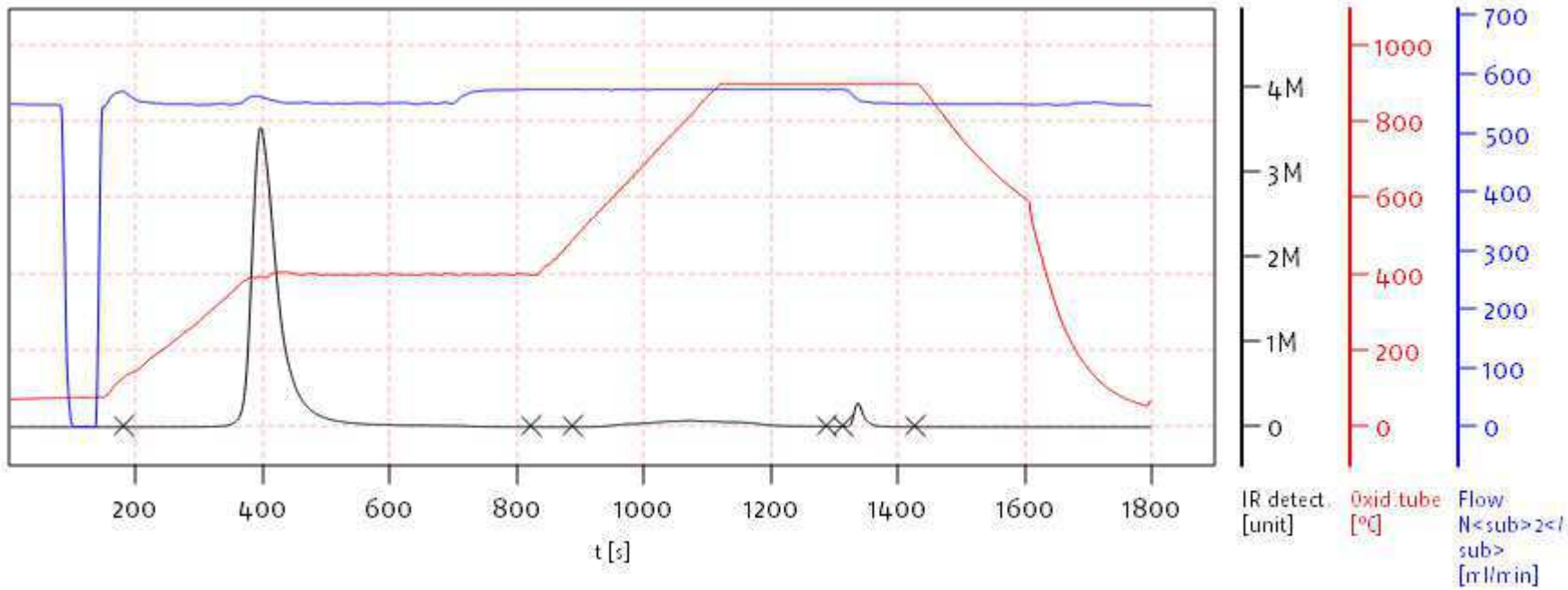
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
181	3	BKL0652-MS2	503.70	0.0083	CARBON	1/1/2023 10:04 AM	bl	2.004	6 508 376	2.164	0.053	199 401	550 122	1.950	0.161	0.9791	1.0000



Name:

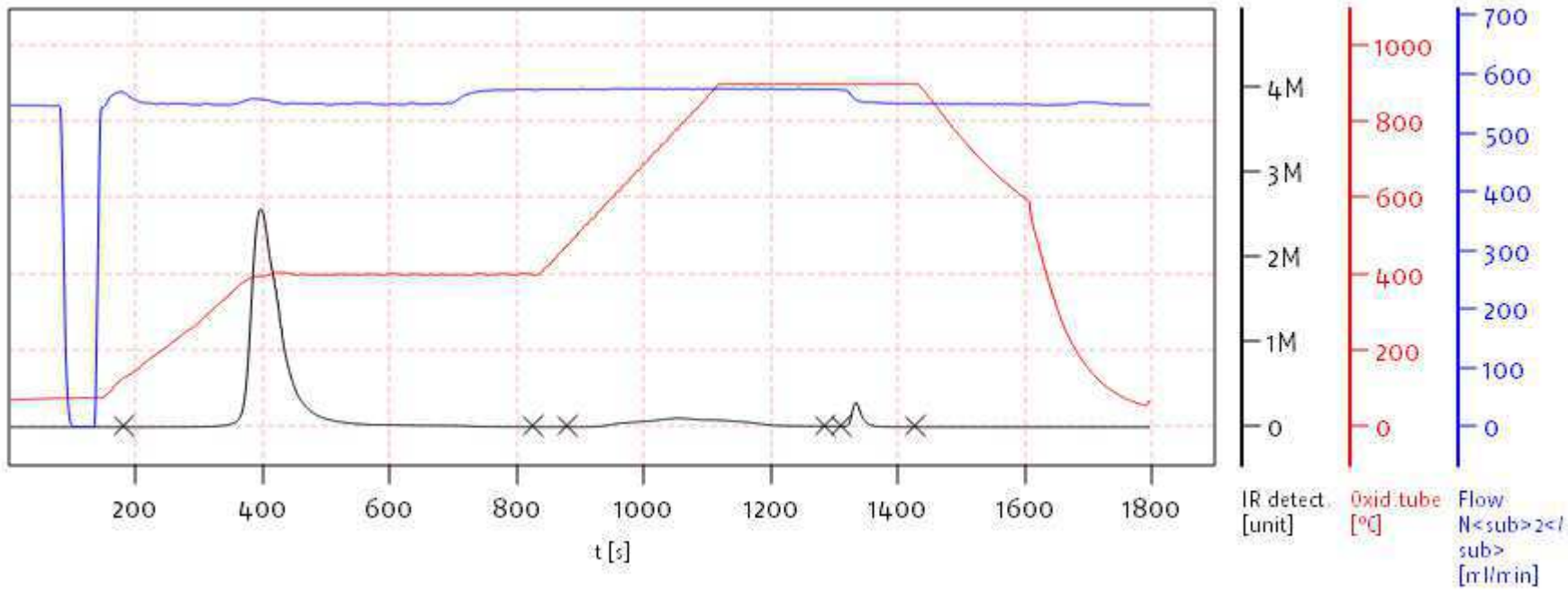
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
182	4	22L0459-02	553.00		CARBON	1/1/2023 10:34 AM	bl	1.489	5 283 699	1.686	0.048	198 987	728 467	1.441	0.196	0.9791	1.0000



Name:

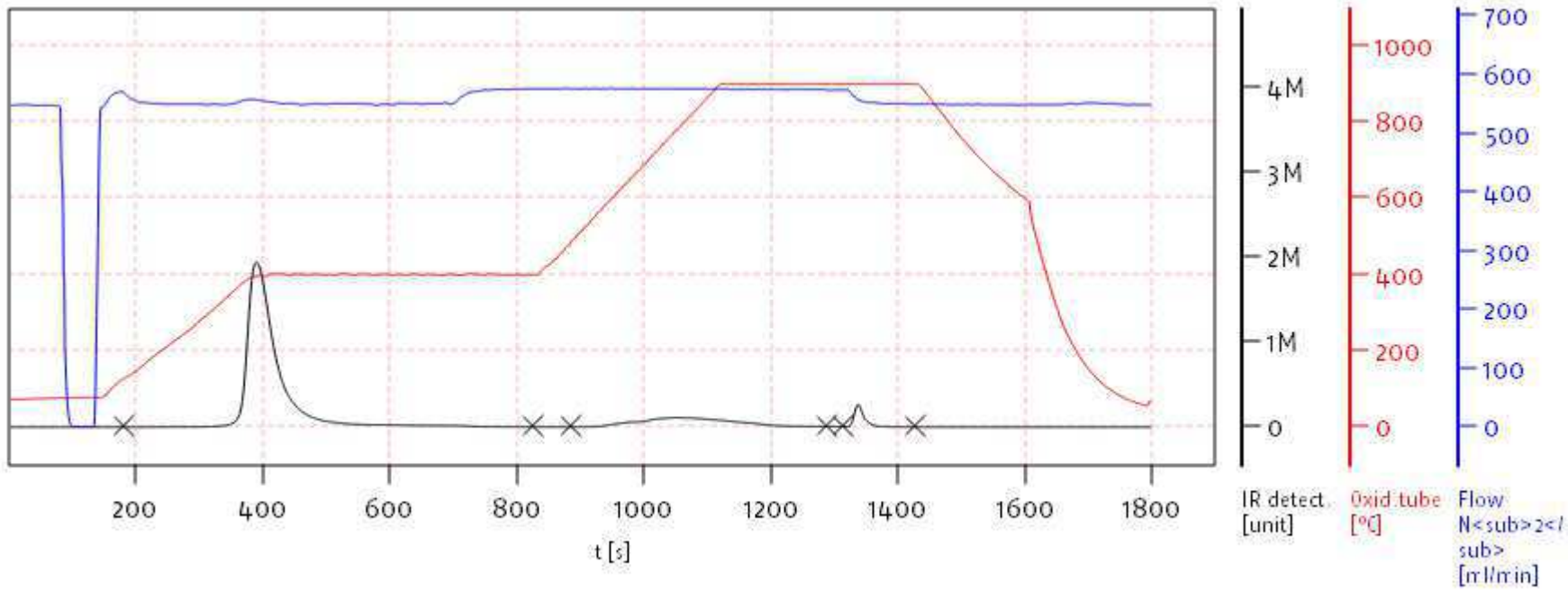
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
183	5	22L0459-03	504.10		CARBON	1/1/2023 11:05 AM	bl	1.204	3 870 882	1.426	0.049	184 651	747 999	1.156	0.222	0.9791	1.0000



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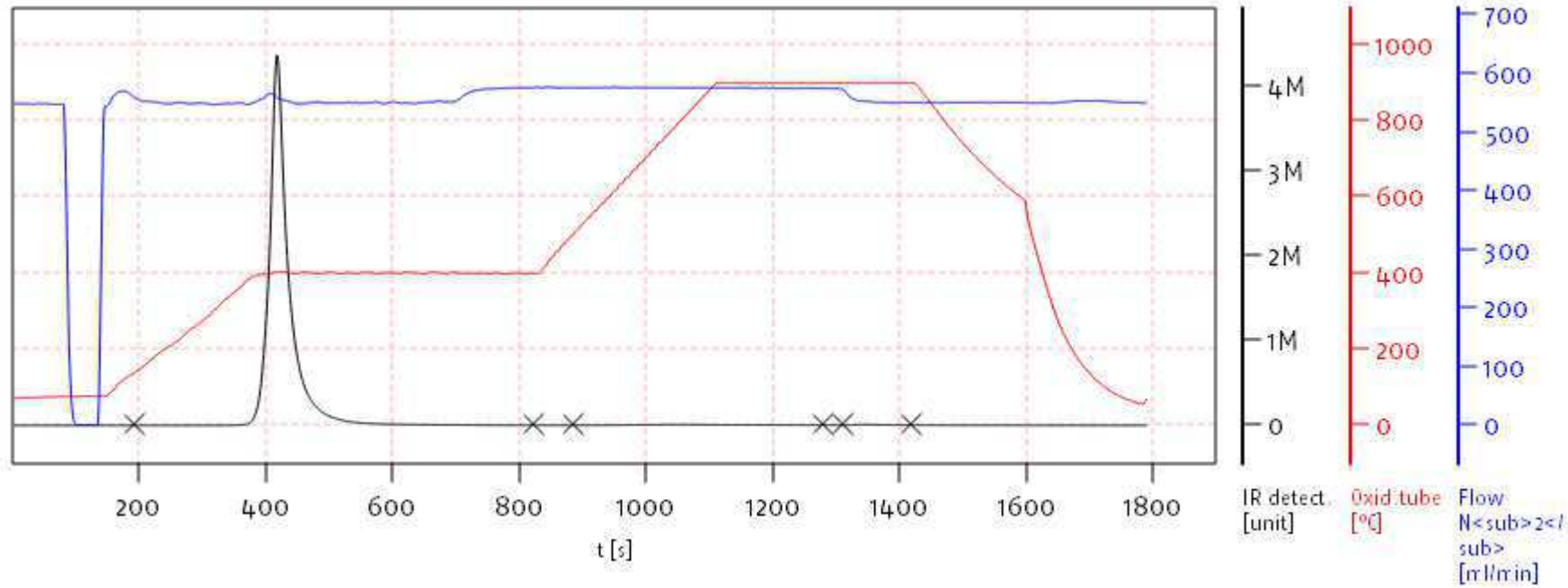
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
184	6	SKL0336-CCVF	19.70		CARBON	1/1/2023 11:35 AM	bl	43.919	5 734 995	44.345	0.000	24 057	80 776	43.919	0.426	0.9791	1.0000



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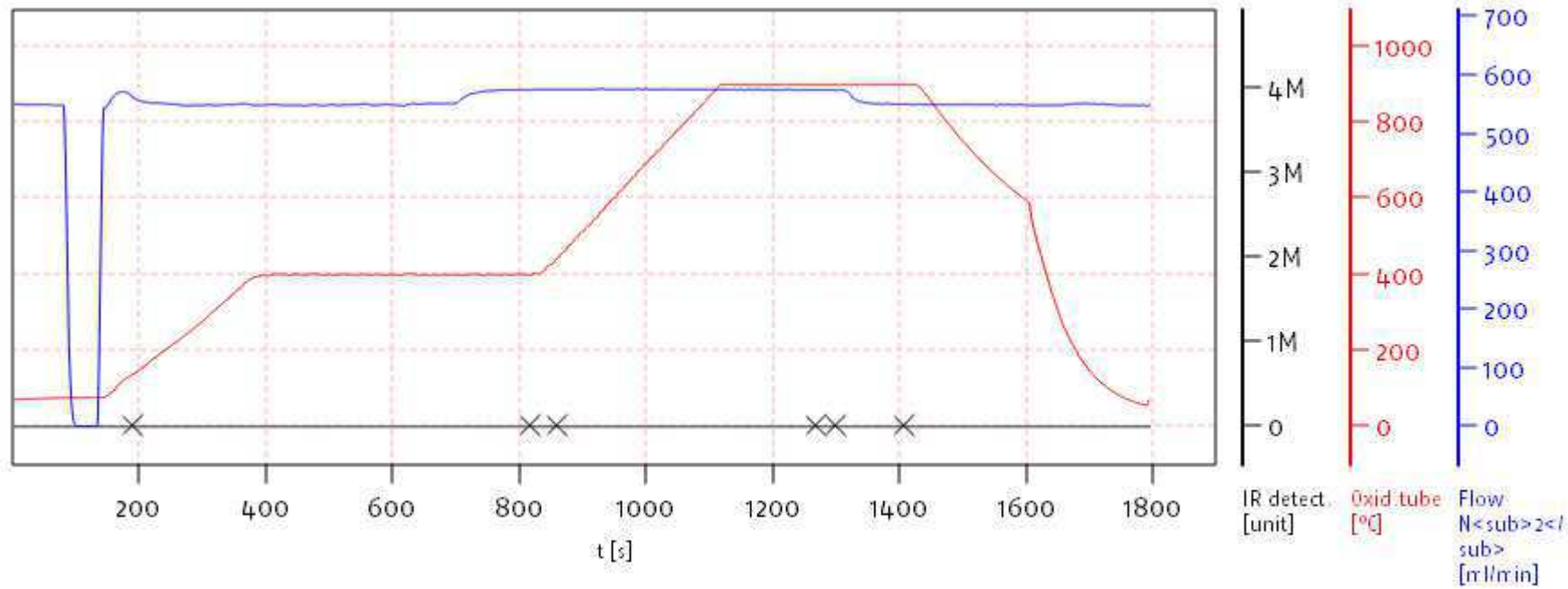
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
185	7	SKL0336-CCBF	503.50		CARBON	1/1/2023 12:05 PM	bl,C2u	0.000	3 712	0.000	0.000	947	3 000	0.000	0.000	0.9791	1.0000



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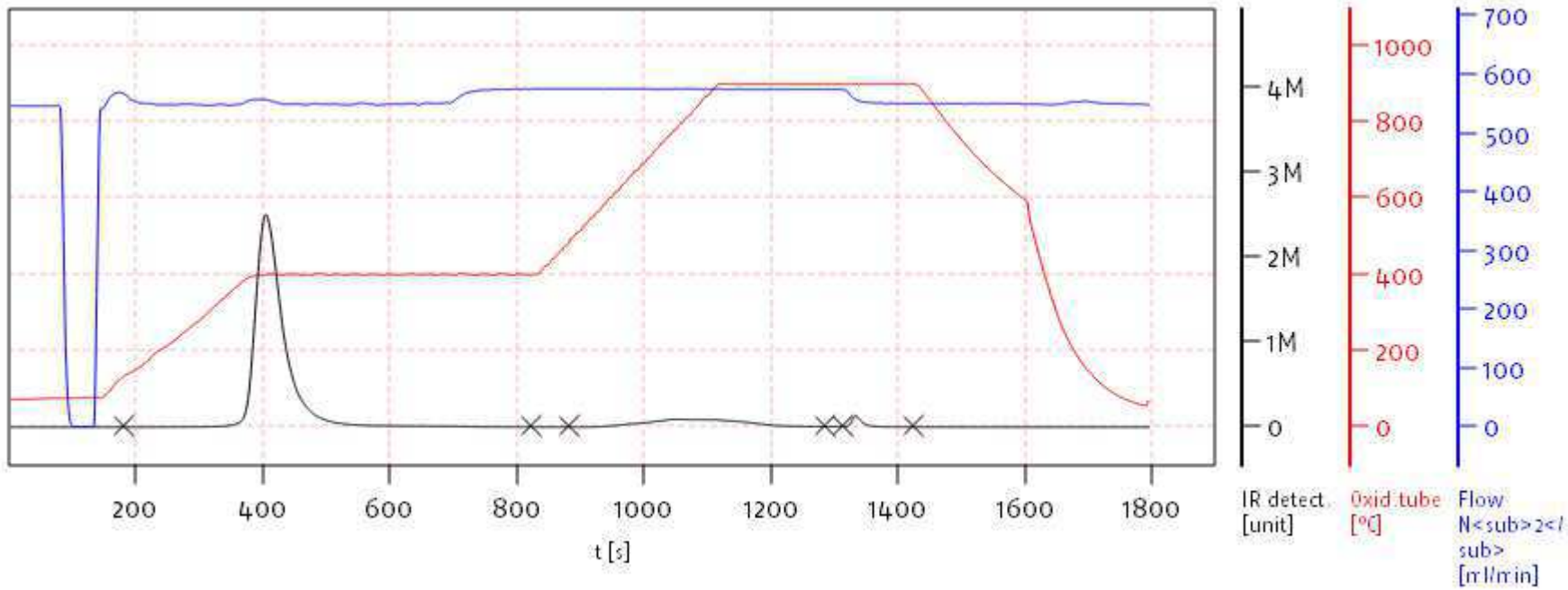
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
186	8	22L0459-04	585.50		CARBON	1/1/2023 12:36 PM	bl	1.262	4 828 602	1.424	0.019	97 318	641 567	1.243	0.163	0.9791	1.0000



Name:

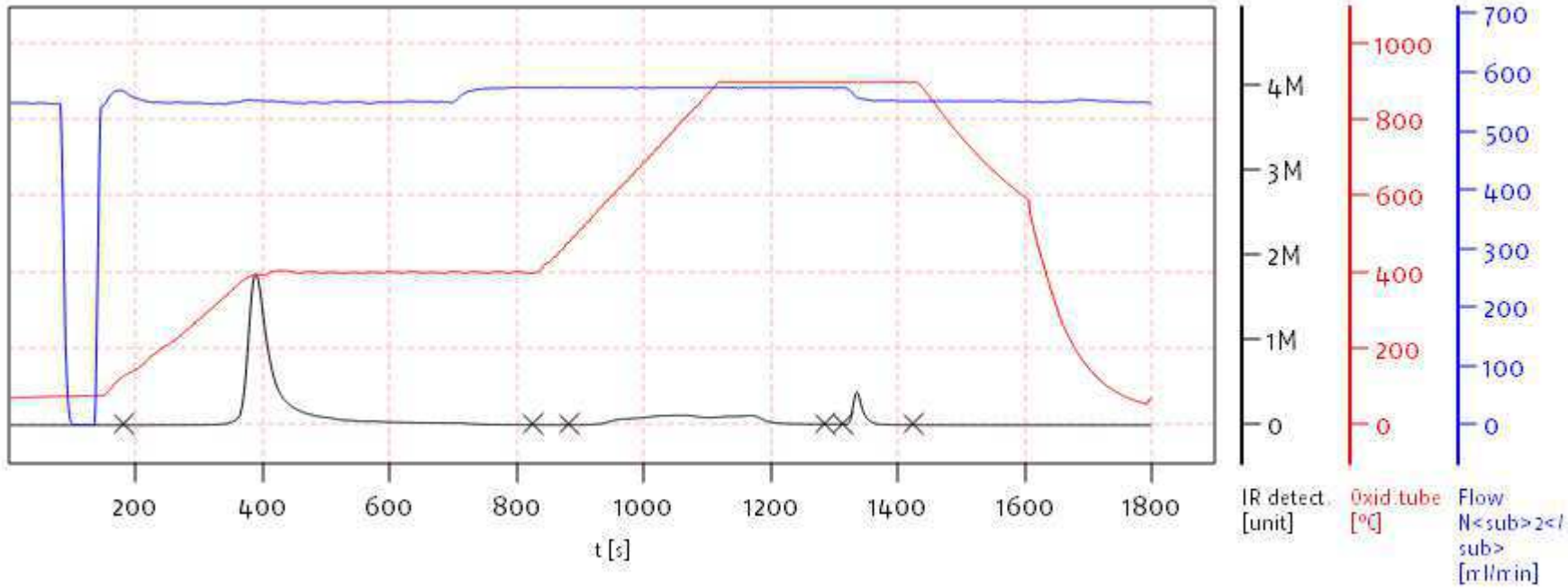
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
187	9	22L0459-05	518.10		CARBON	1/1/2023 1:06 PM	bl	1.002	3 206 499	1.285	0.072	267 557	971 388	0.930	0.282	0.9791	1.0000



Name:

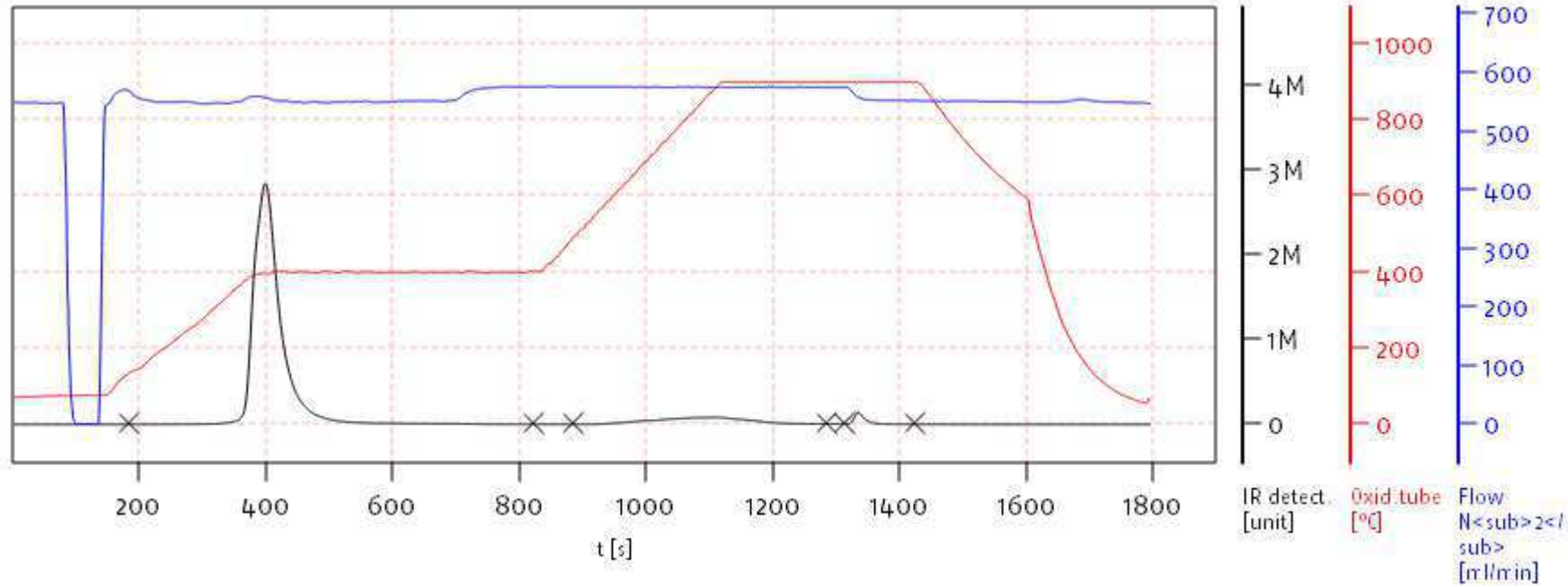
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
188	10	22L0459-06	541.60		CARBON	1/1/2023 1:36 PM	bl	1.470	5 195 518	1.622	0.023	107 213	559 662	1.447	0.152	0.9791	1.0000



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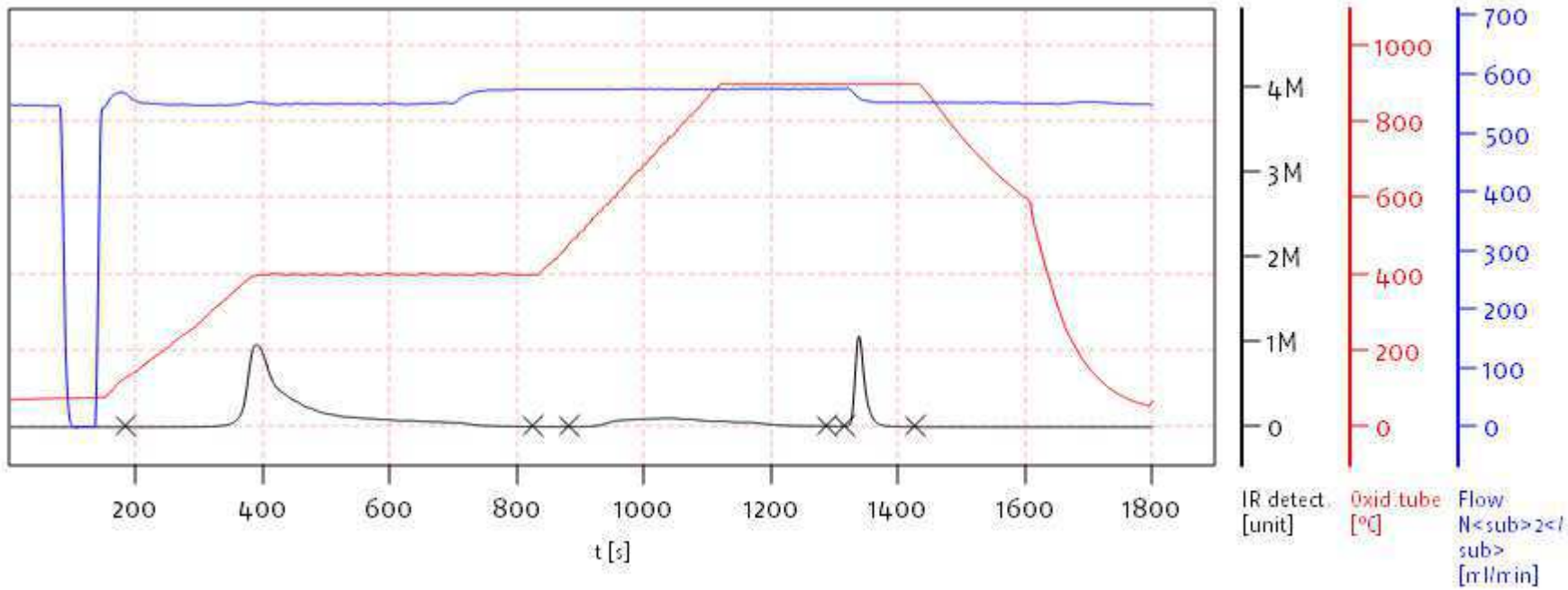
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
189	11	22L0459-07	530.60		CARBON	1/1/2023 2:07 PM	bl	1.082	3 098 637	1.313	0.204	727 192	819 749	0.878	0.231	0.9791	1.0000



Name:

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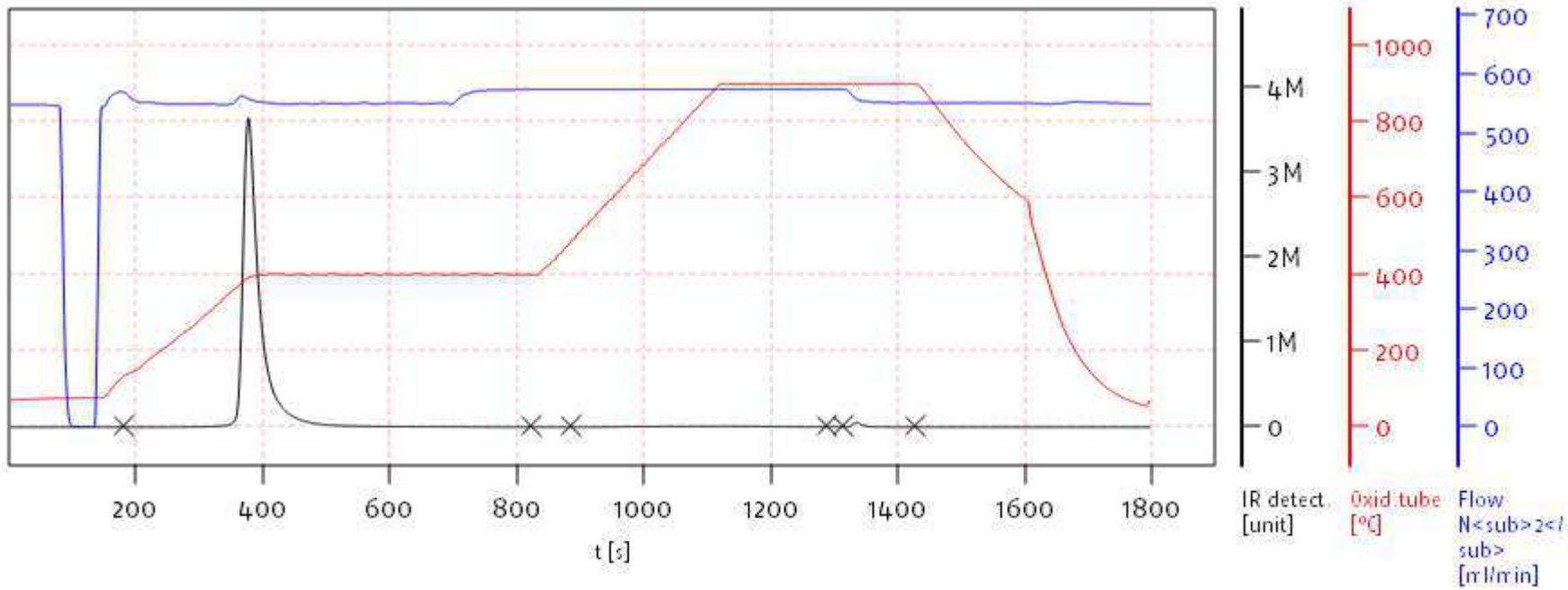
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
190	12	BKL0502-MS2	95.30	0.0093	CARBON	1/1/2023 2:37 PM	bl	6.642	4 192 295	6.731	0.017	37 127	81 180	6.625	0.089	0.9791	1.0000



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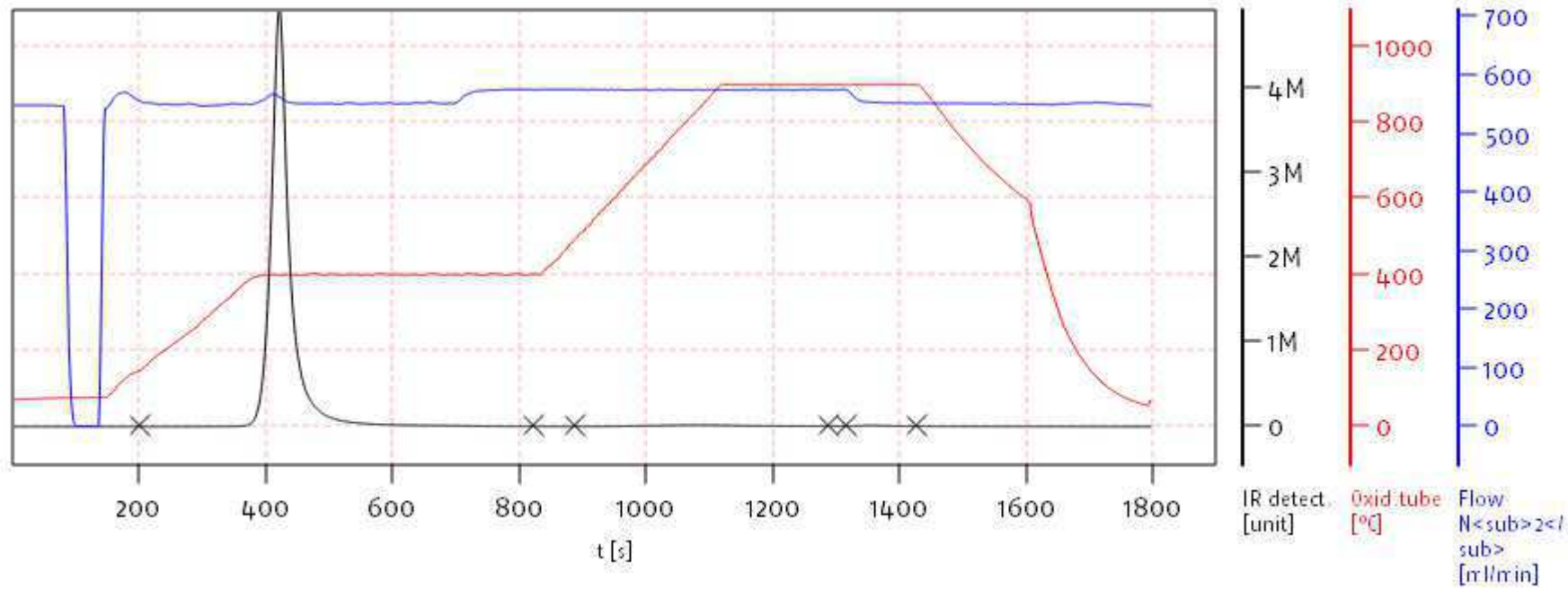
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
191	13	SKL0336-CCVG	22.00		CARBON	1/1/2023 3:07 PM	bl	44.105	6 421 622	44.872	0.047	33 273	135 625	44.057	0.768	0.9791	1.0000



Name:

Access: soliTOC superuser

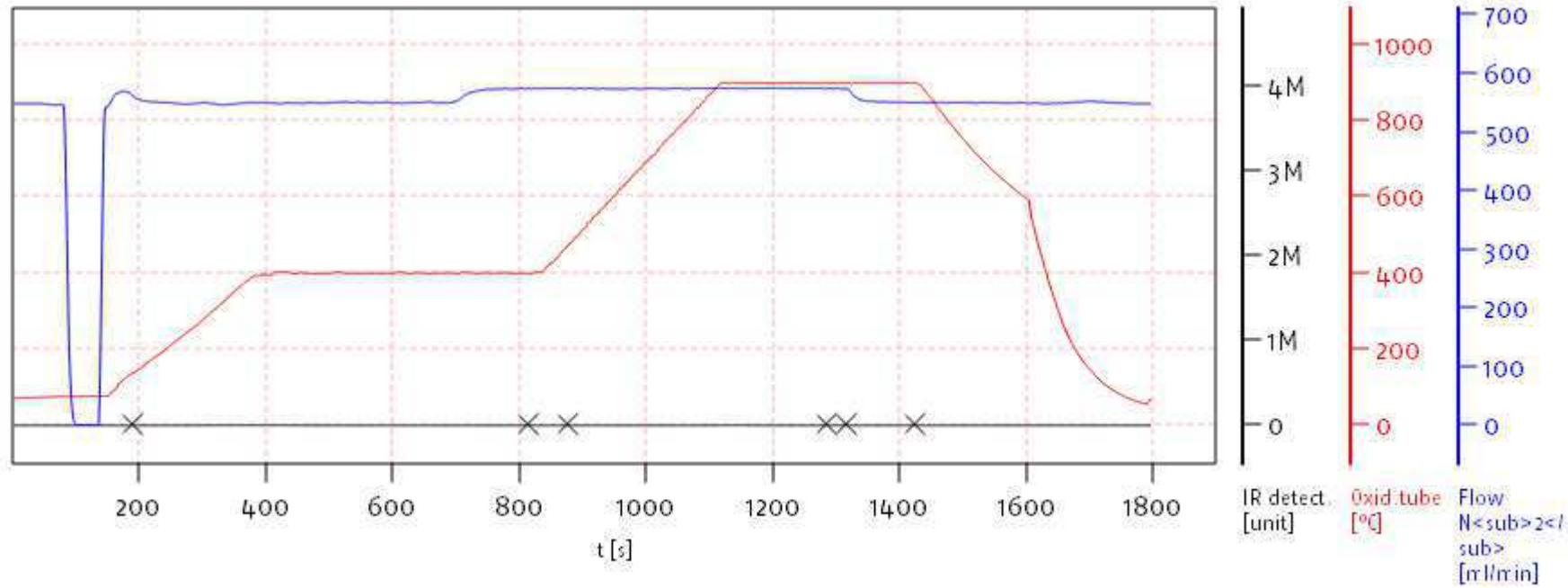
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
192	14	SKL0336-CCBG	510.60		CARBON	1/1/2023 3:38 PM	bl,C2u	0.000	10 989	0.000	0.000	846	4 670	0.000	0.000	0.9791	1.0000



Name:

Access: soliTOC superuser

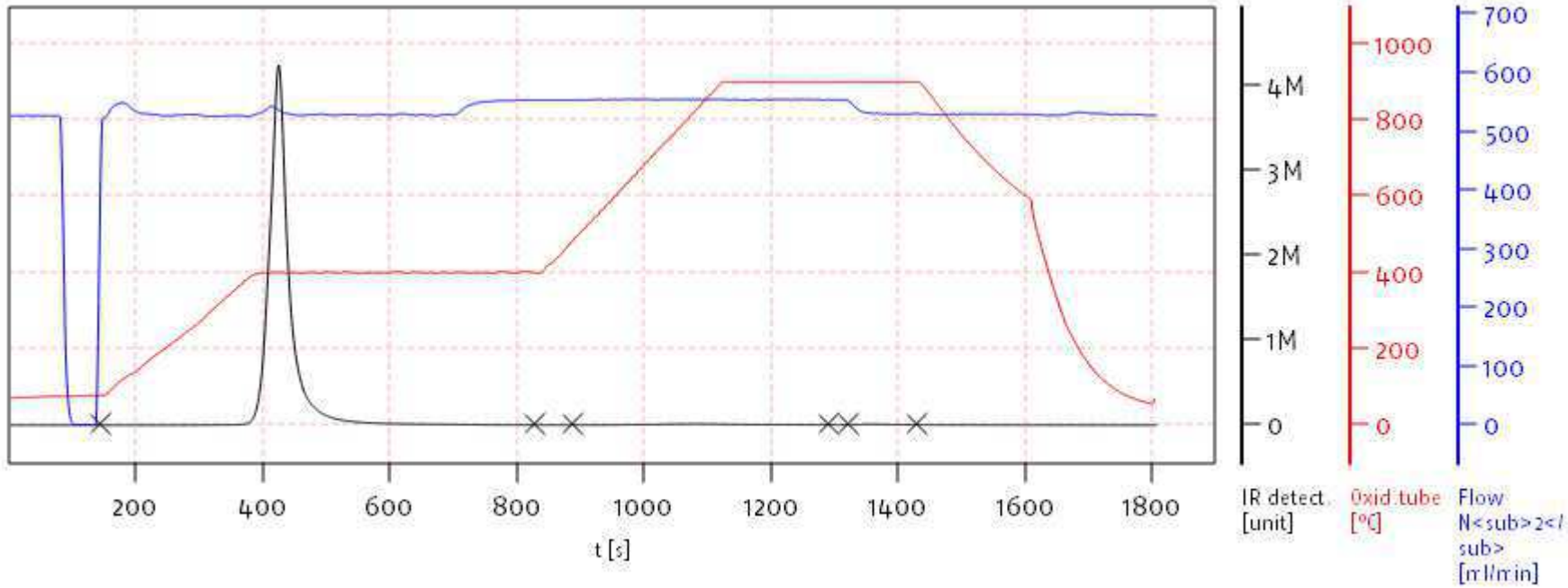
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
95	6	BKL0650-BS1	19.10		CARBON		bl	45.077	5 715 005	45.698	0.014	28 228	103 151	45.063	0.621	0.9774	1.0000



Name:

Access: soliTOC superuser

Date: Tue Jan 3 07:16:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 122822 DOE from: --.--.-- (modified)

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FD00070	Instrument:	TOC Cube
Calibration Date:	04/26/2022 11:29		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Inorganic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
% Soot	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Inorganic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
% Soot	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Inorganic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
% Soot	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Inorganic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
% Soot	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408

INITIAL CALIBRATION DATA

EPA 9060A m

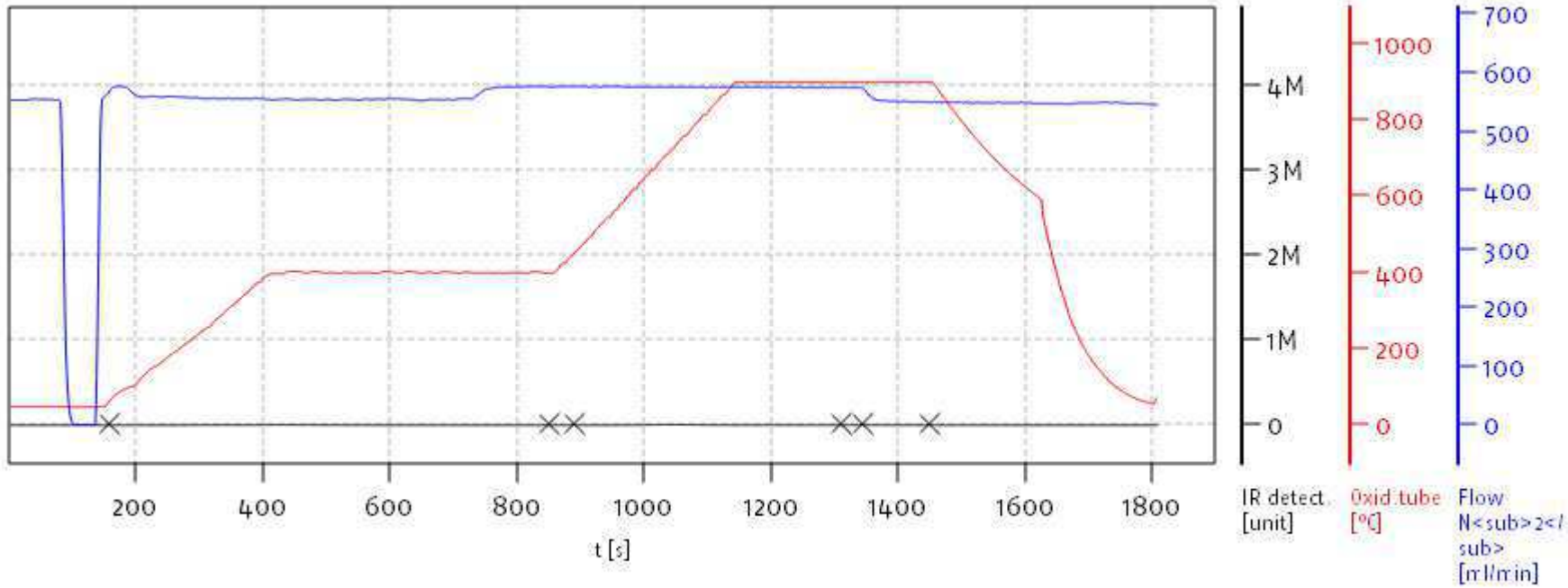
Laboratory:	Analytical Resources, LLC	SDG:	22L0459
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FD00070	Instrument:	TOC Cube
Calibration Date:	04/26/2022 11:29		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Total Organic Carbon	1424064	15.9	0.9988			
Total Carbon	1424064	15.9	0.9988			
Total Inorganic Carbon	1424064	15.9	0.9988			
% Soot	1424064	15.9	0.9988			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		1.00	CARBON	4/26/2022 11:29 AM	0.000	0.000	0.000	bl	29 049	30 612	3 899	1.0000	1.0000



Name:

Access: soliTOC superuser

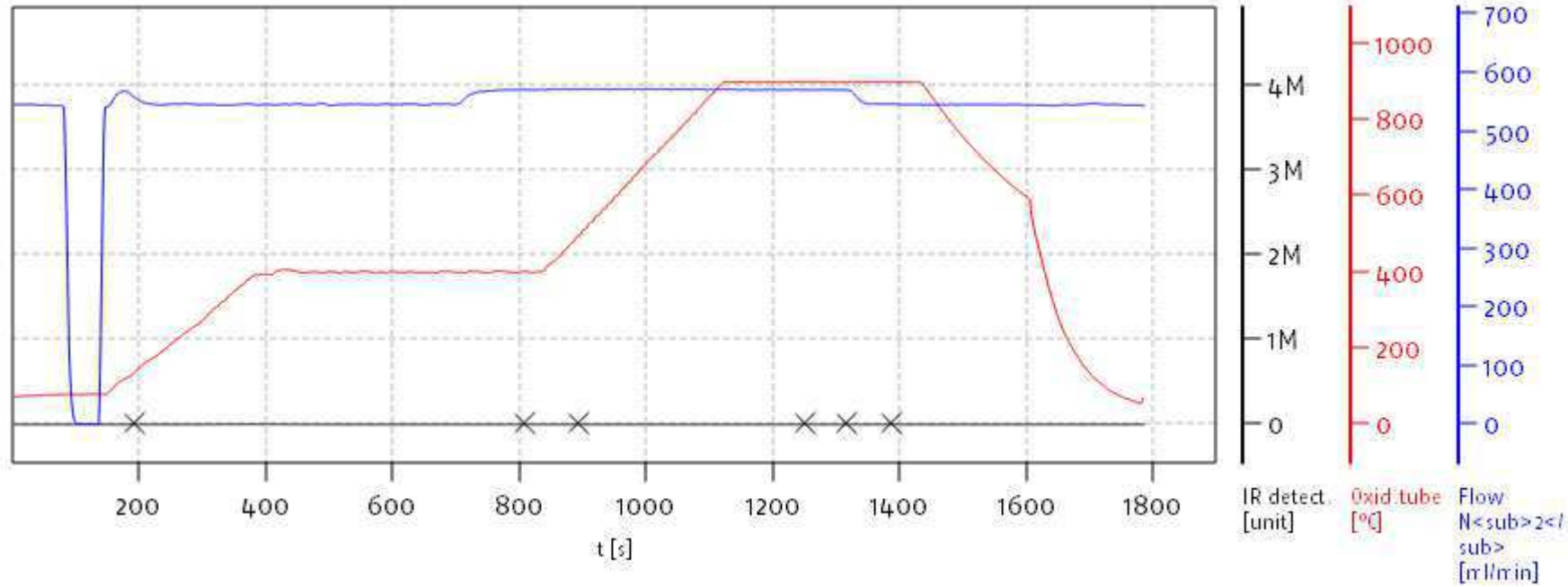
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
2	2	BLANK	1.00		1.00	CARBON	4/26/2022 12:00 PM	0.000	0.000	0.000	bl	11 115	60	8	1.0000	1.0000



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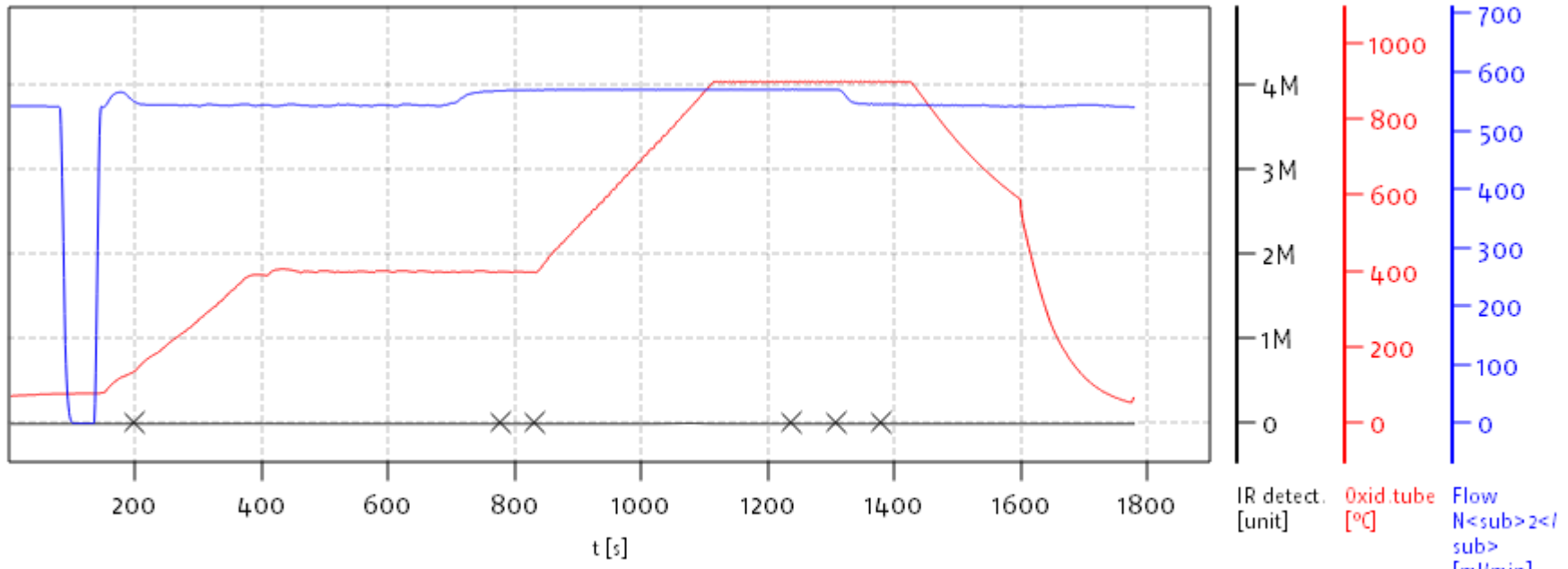
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
3	3	SEQ-CAL1	200.00	0.0027	1.00	CARBON	4/26/2022 12:30 PM	0.010	0.008	0.018	bl,C1u,C2u	7 294	11 739	22	1.0000	0.7425



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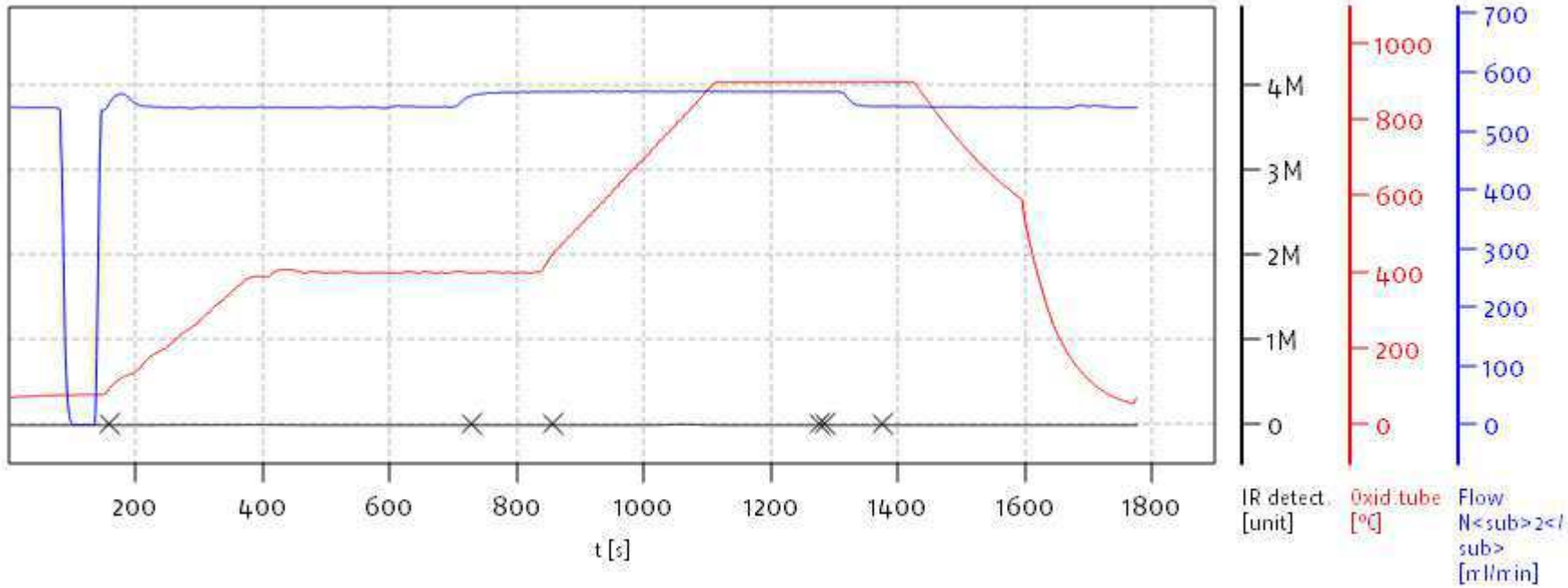
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
4	4	SEQ-CAL2	200.00	0.0049	1.00	CARBON	4/26/2022 1:00 PM	0.023	0.015	0.038	bl,C2u	23 296	19 107	47	1.0000	0.8936



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Serial No: 0300.181017
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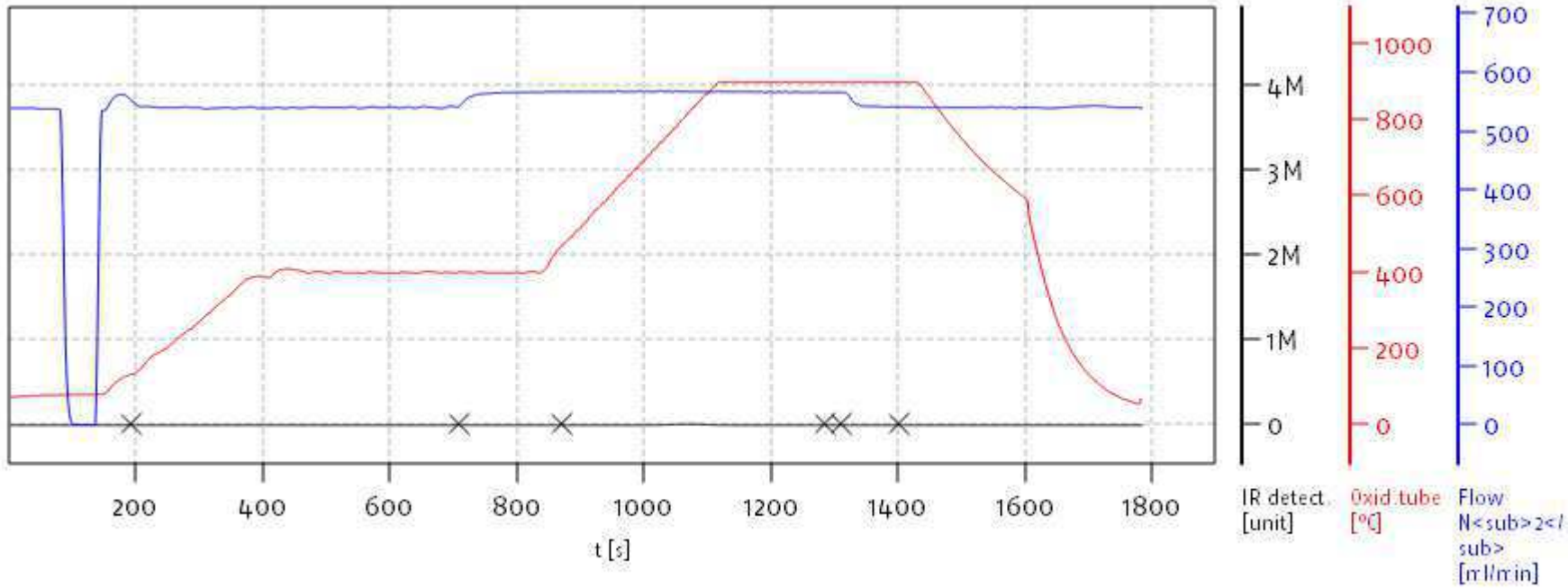
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
5	5	SEQ-CAL3	200.00	0.0071	1.00	CARBON	4/26/2022 1:30 PM	0.006	0.022	0.028	bl,C1u,C2u	2 319	27 530	170	1.0000	0.9343



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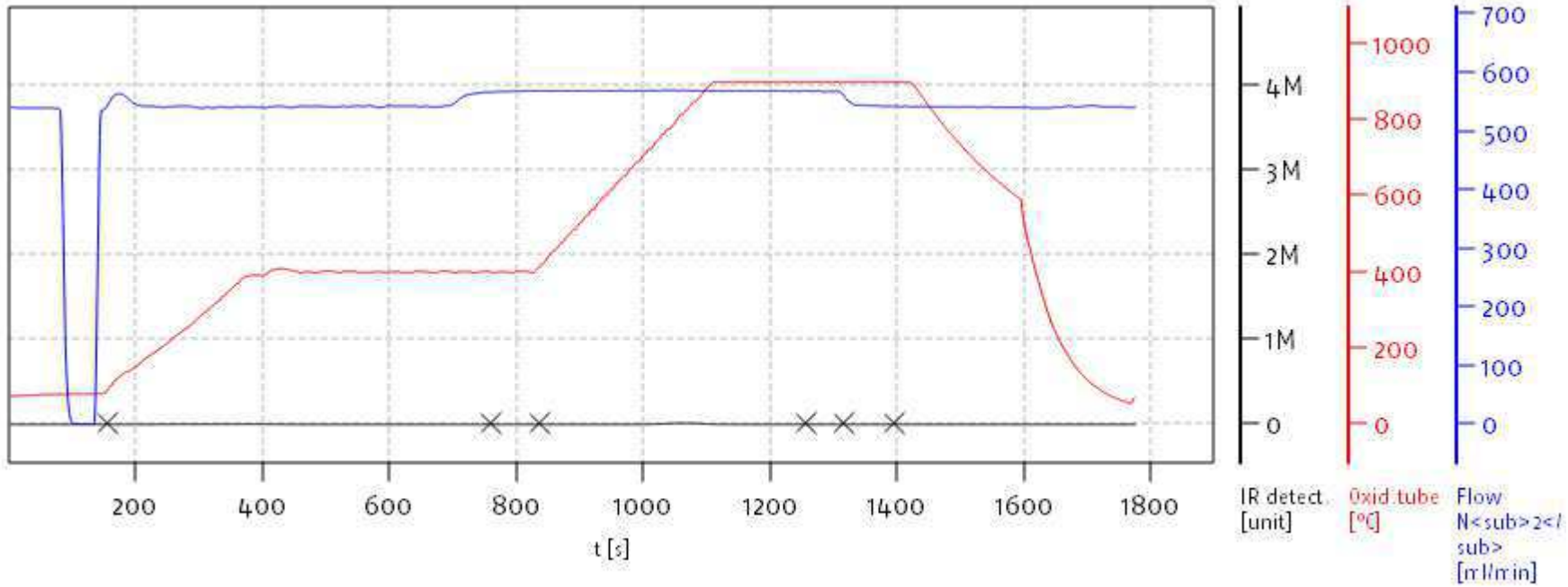
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
6	6	SEQ-CAL4	200.00	0.0098	1.00	CARBON	4/26/2022 2:00 PM	0.020	0.030	0.050	bl,C2u	19 746	38 017	109	1.0000	0.9461



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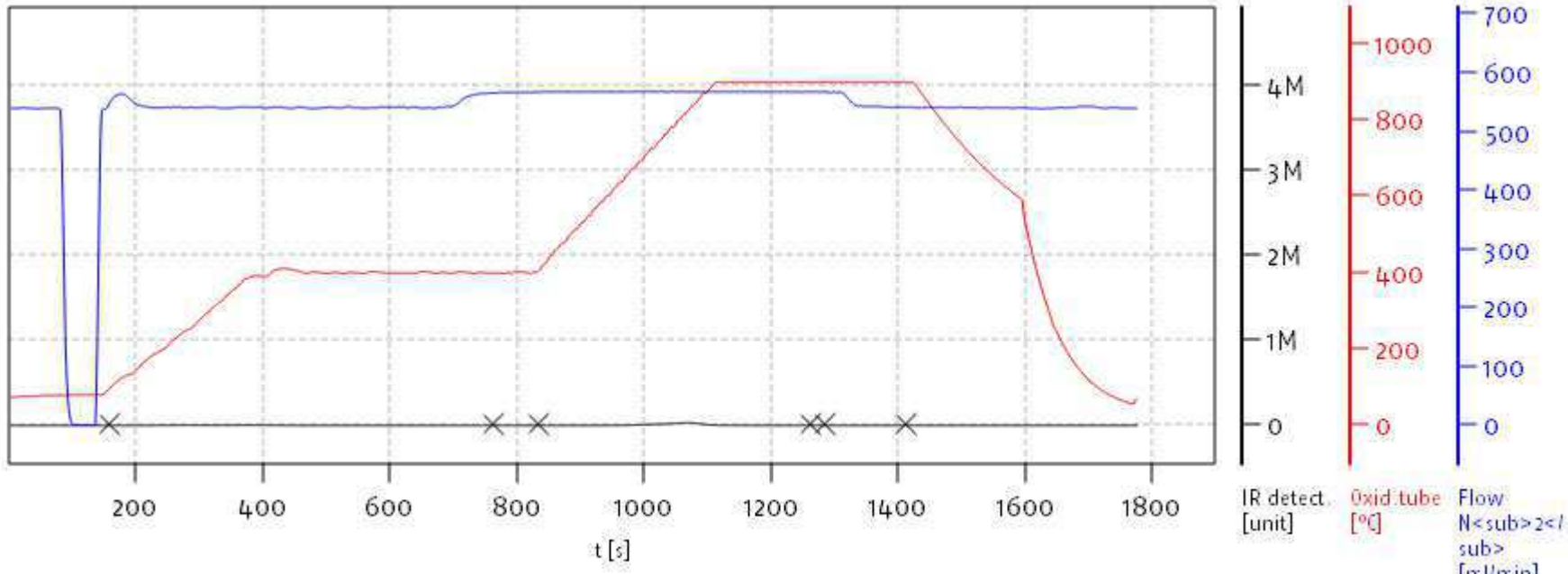
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
7	7	SEQ-CAL5	200.00	0.0148	1.00	CARBON	4/26/2022 2:30 PM	0.021	0.045	0.066	bl,C2u	20 951	92 945	236	1.0000	0.5975



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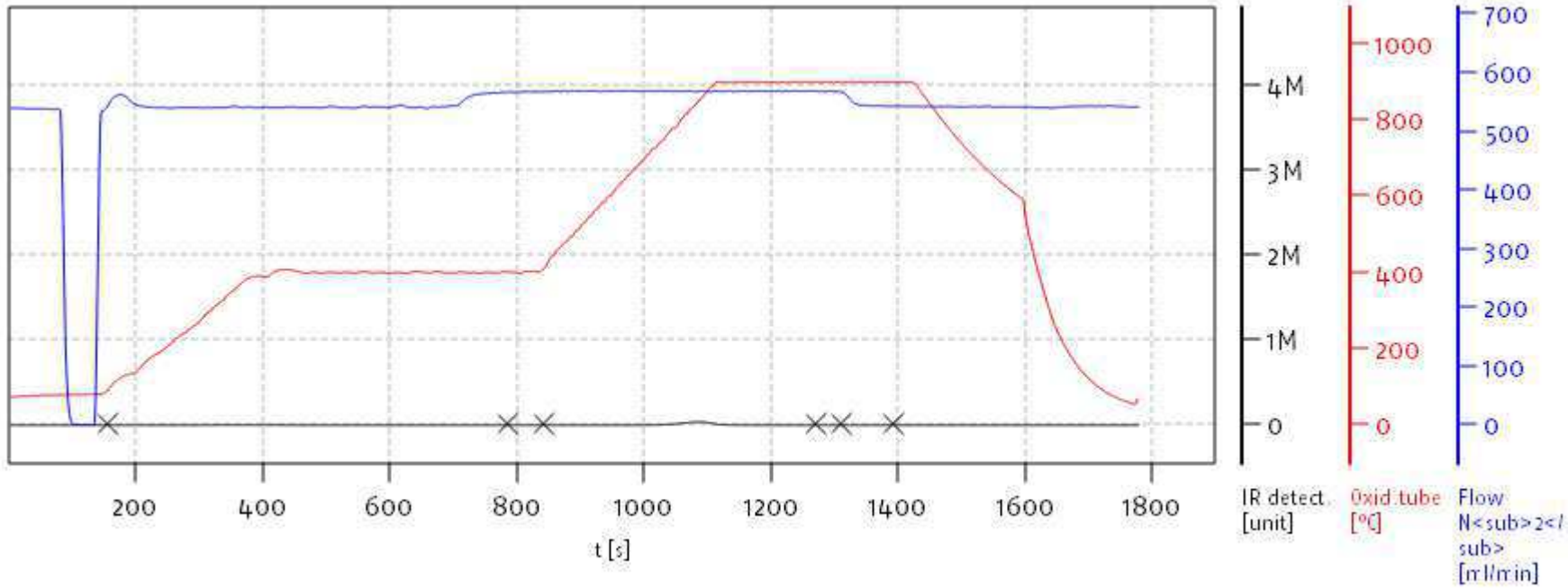
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
8	8	SEQ-CAL6	200.00	0.0196	1.00	CARBON	4/26/2022 3:00 PM	0.012	0.061	0.073	bl,C2u	10 118	82 297	59	1.0000	0.9144



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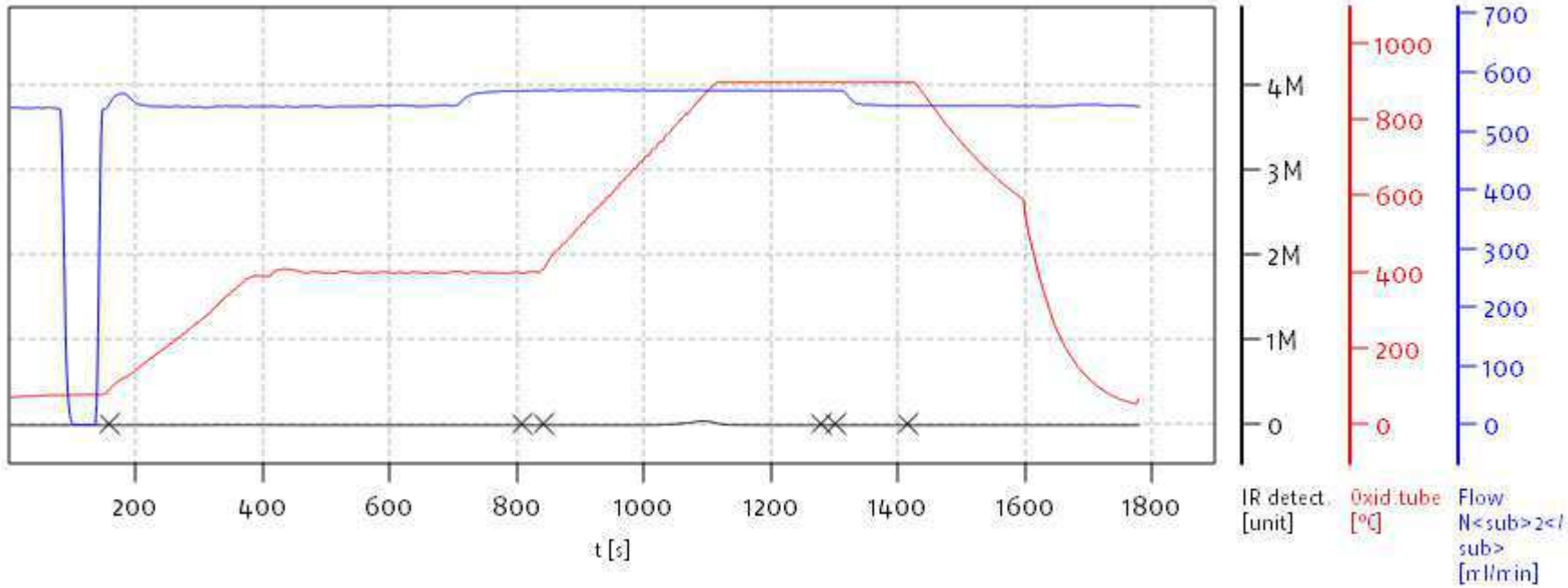
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
9	9	SEQ-CAL7	200.00	0.0247	1.00	CARBON	4/26/2022 3:30 PM	0.013	0.075	0.088	bl,C2u	10 555	101 530	292	1.0000	0.9173



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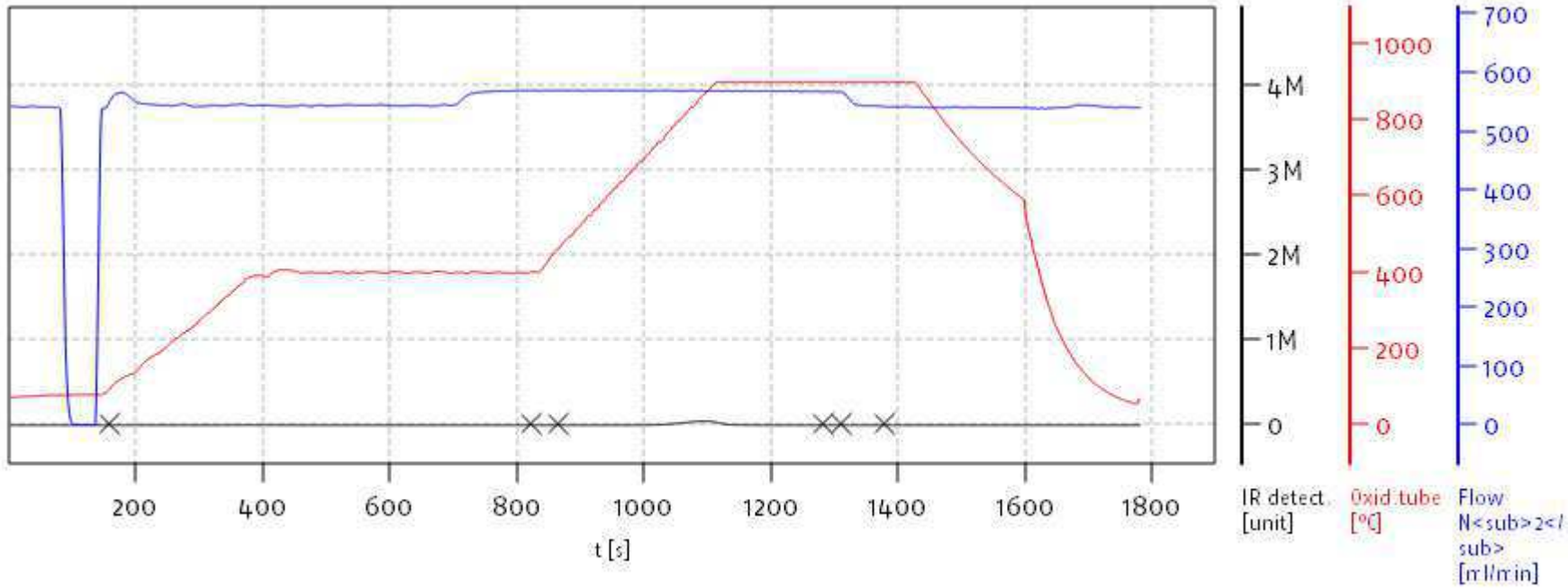
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
10	10	SEQ-CAL8	200.00	0.0298	1.00	CARBON	4/26/2022 4:00 PM	0.009	0.091	0.100	bl,C1u,C2u	6 668	120 822	116	1.0000	0.9312



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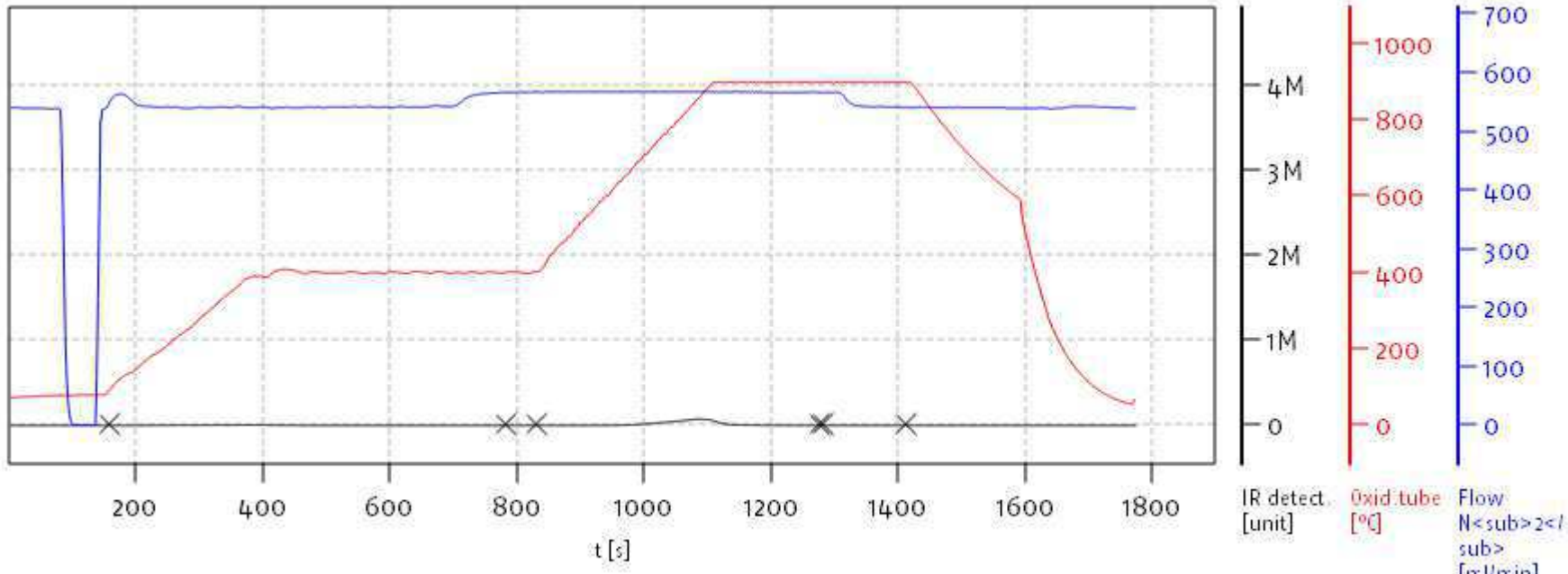
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
11	11	SEQ-CAL9	200.00	0.0402	1.00	CARBON	4/26/2022 4:30 PM	0.031	0.120	0.151	bl,C2u	32 999	260 234	1 044	1.0000	0.5792



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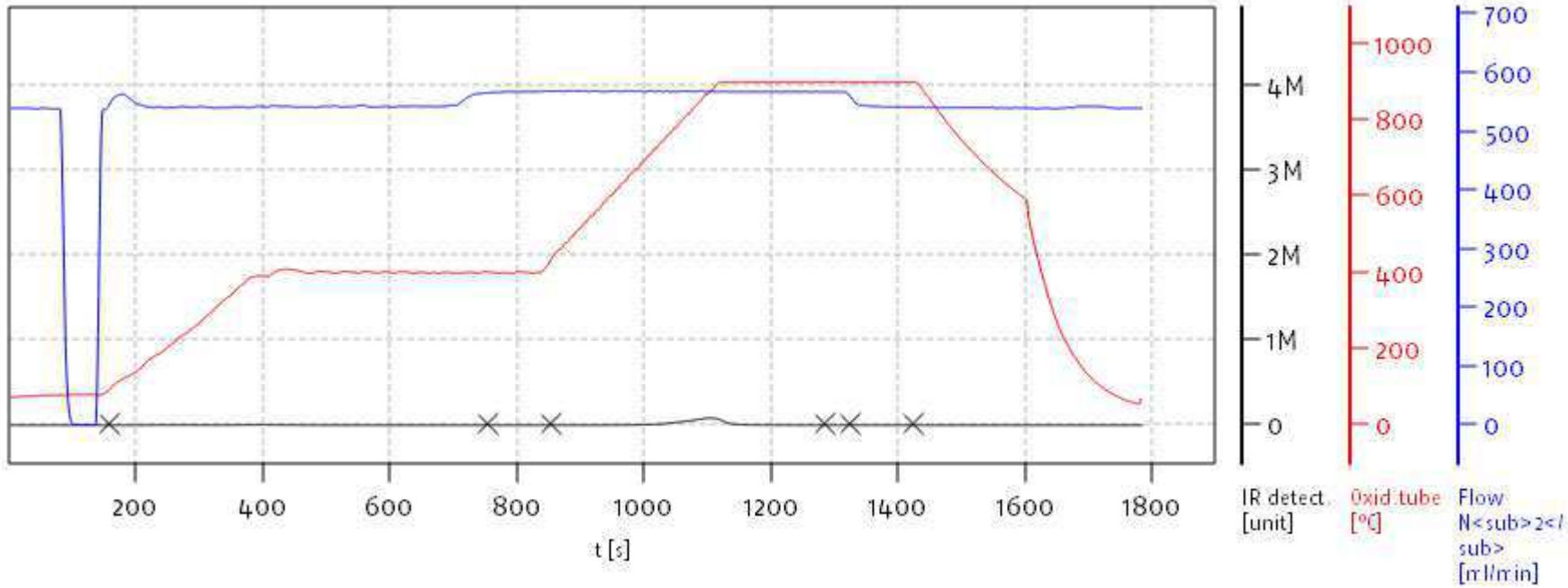
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
12	12	SEQ-CALA	200.00	0.0500	1.00	CARBON	4/26/2022 5:00 PM	0.021	0.151	0.172	bl,C2u	20 147	233 779	913	1.0000	0.8099



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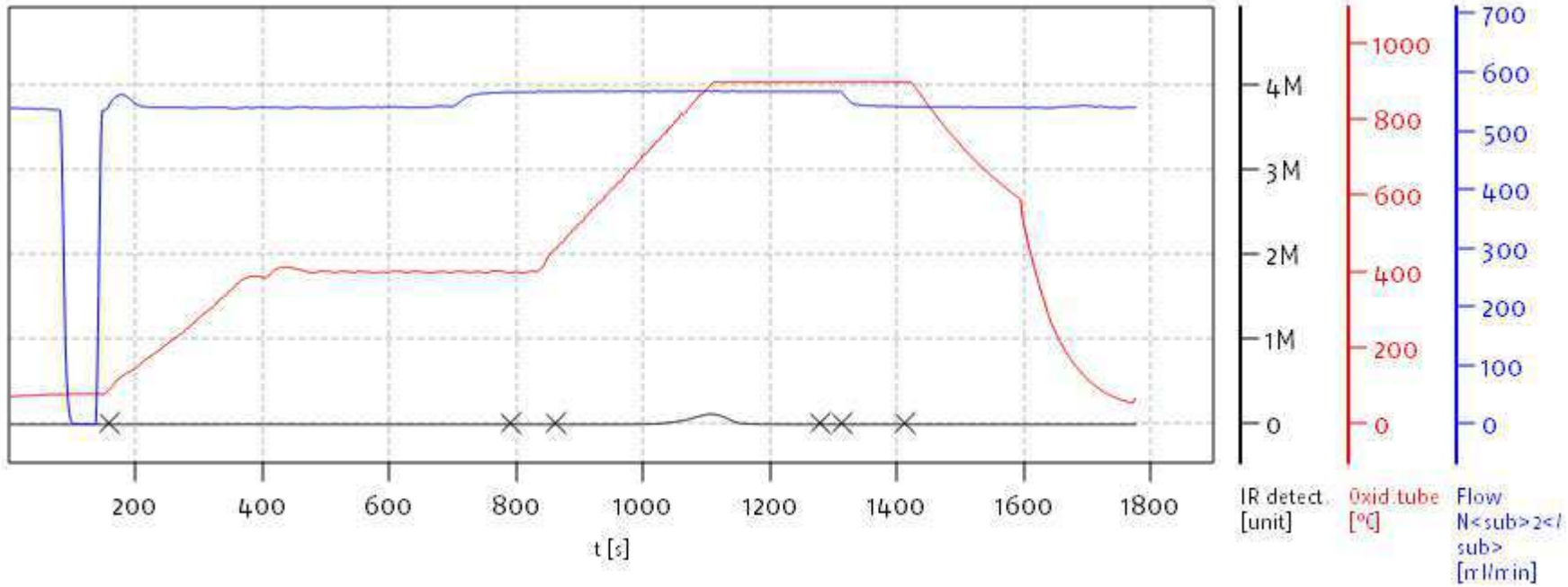
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
13	13	SEQ-CALB	200.00	0.0040	1.00	CARBON	4/26/2022 5:30 PM	0.010	0.258	0.268	bl,C1u,C2u	7 070	323 151	663	1.0000	1.0048



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Serial No: 0300.181017
Mode CCC

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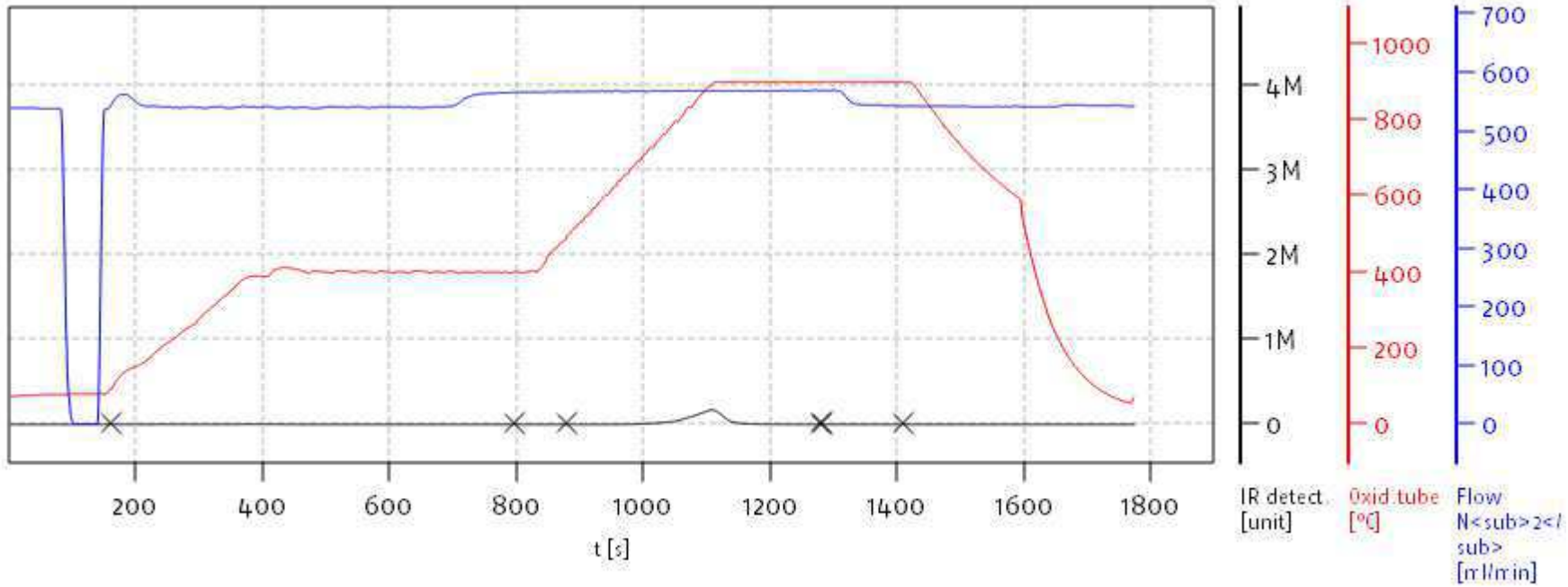
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
14	14	SEQ-CALC	200.00	0.0048	1.00	CARBON	4/26/2022 6:00 PM	0.015	0.324	0.339	bl,C2u	13 785	411 879	575	1.0000	0.9917



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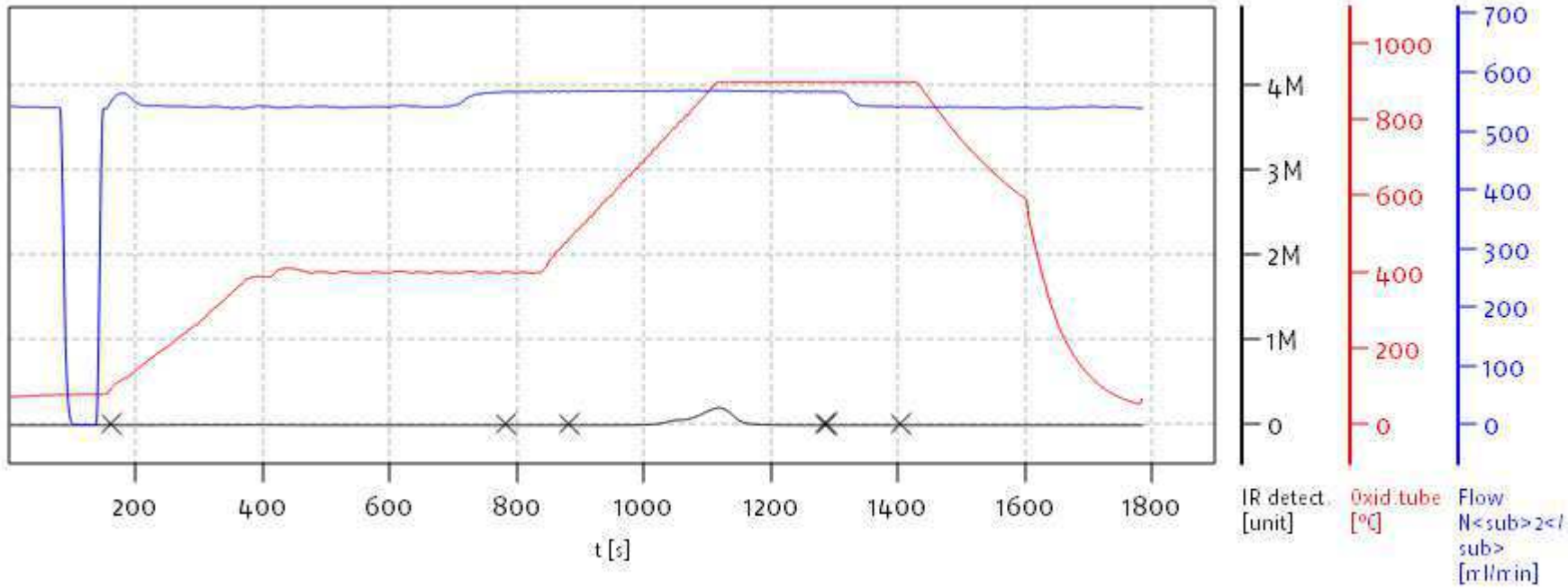
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
15	15	SEQ-CALD	200.00	0.0069	1.00	CARBON	4/26/2022 6:30 PM	0.019	0.444	0.463	bl,C2u	18 465	553 540	263	1.0000	1.0129



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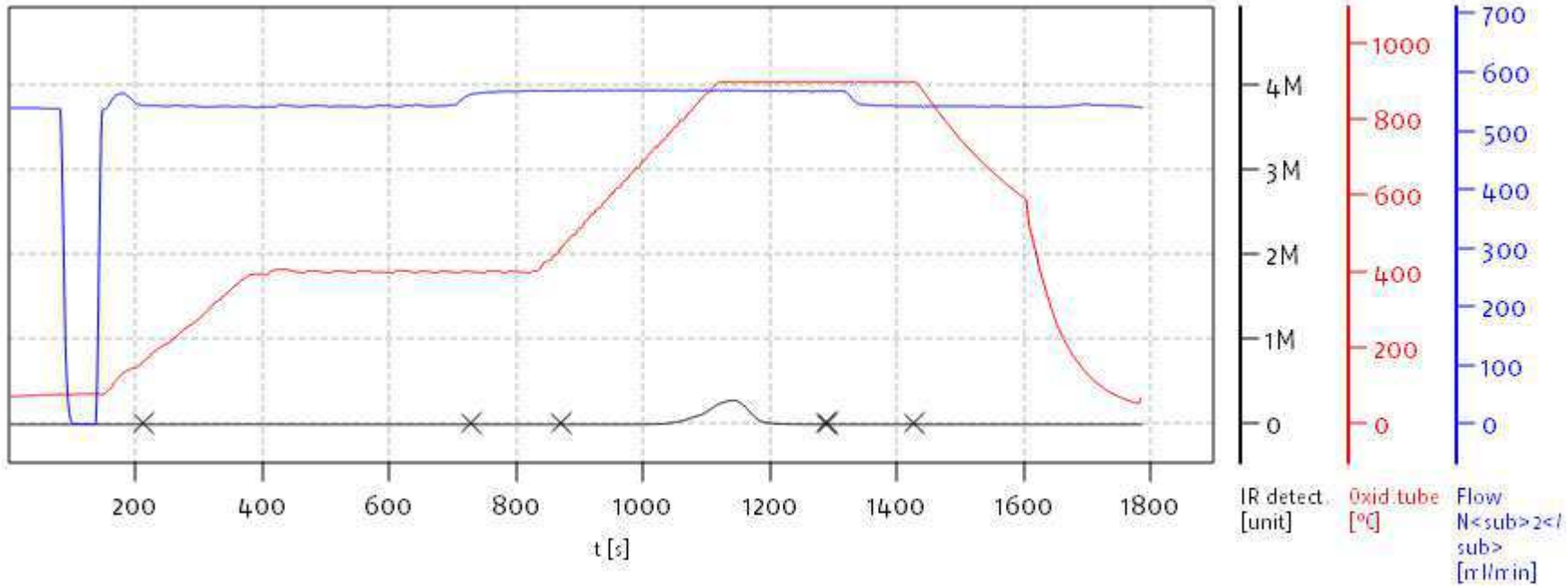
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
16	16	SEQ-CALE	200.00	0.0101	1.00	CARBON	4/26/2022 7:00 PM	0.009	0.600	0.609	bl,C1u,C2u	5 485	839 878	536	1.0000	0.9036



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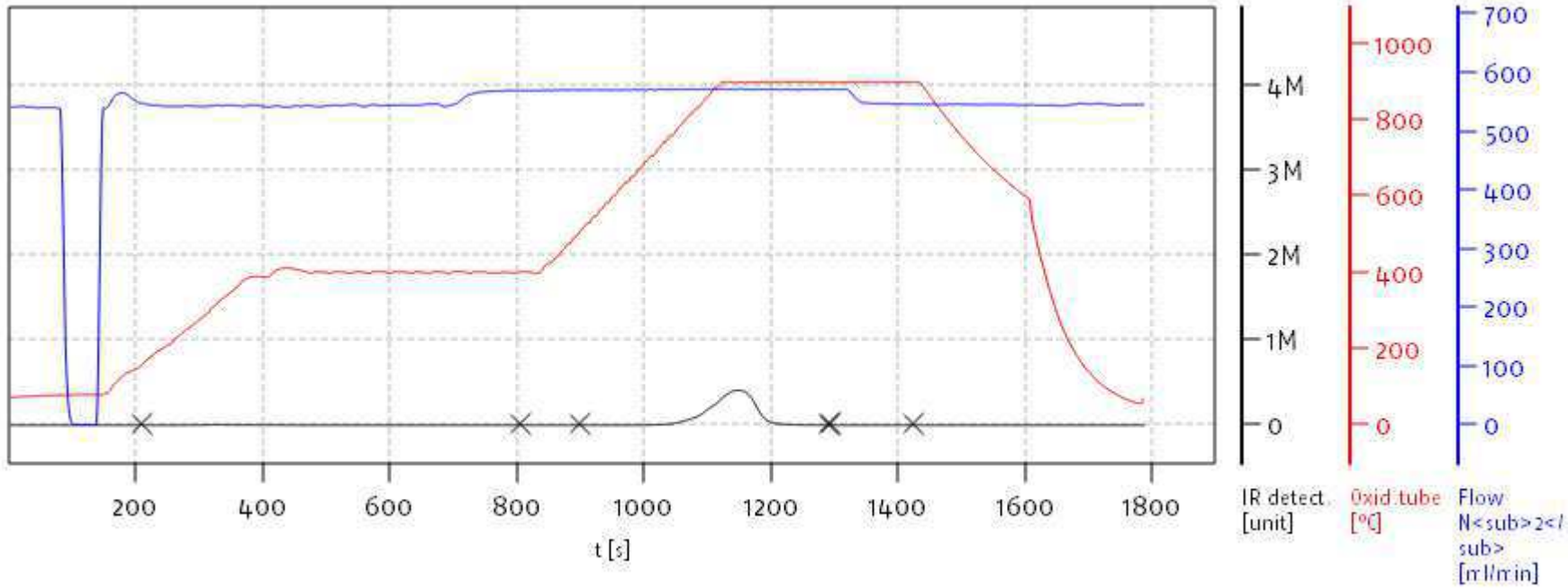
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
17	17	SEQ-CALF	200.00	0.0149	1.00	CARBON	4/26/2022 7:31 PM	0.019	0.906	0.925	bl,C2u	17 439	1 236 200	814	1.0000	0.9279



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Serial No: 0300.181017
Mode CCC

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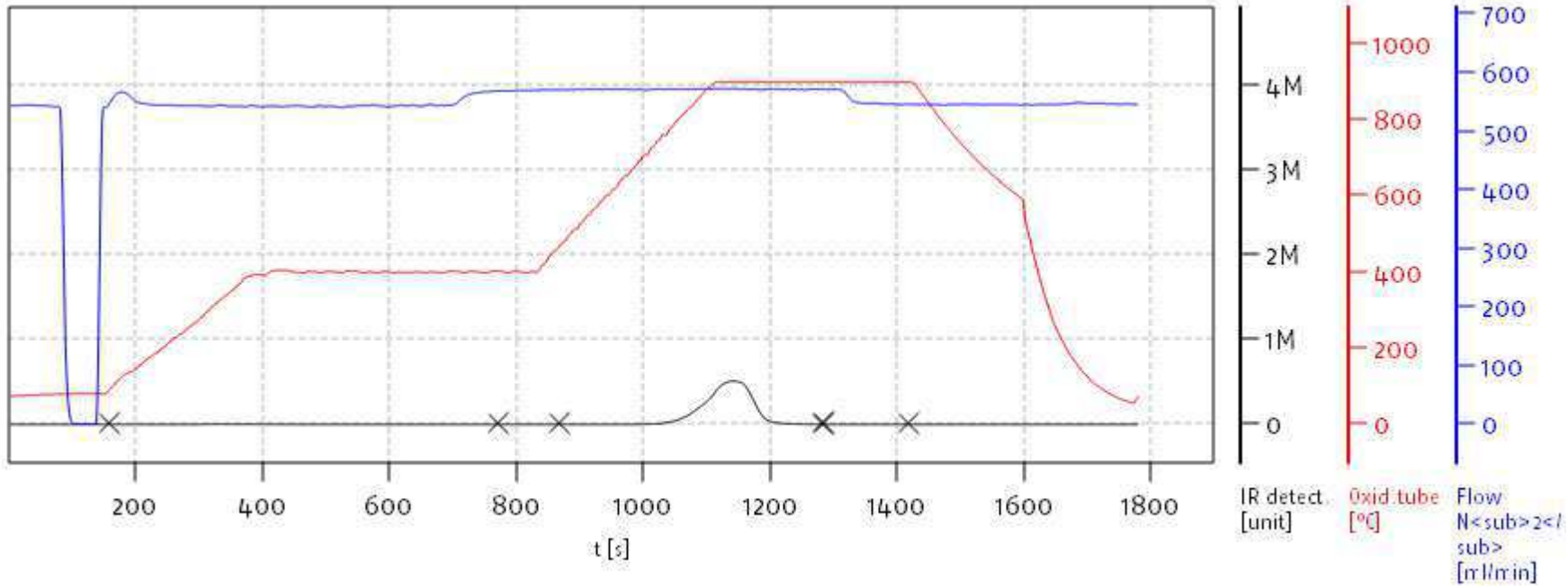
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
18	18	SEQ-CALG	200.00	0.0198	1.00	CARBON	4/26/2022 8:01 PM	0.015	1.206	1.221	bl,C2u	12 557	1 639 190	1 295	1.0000	0.9320



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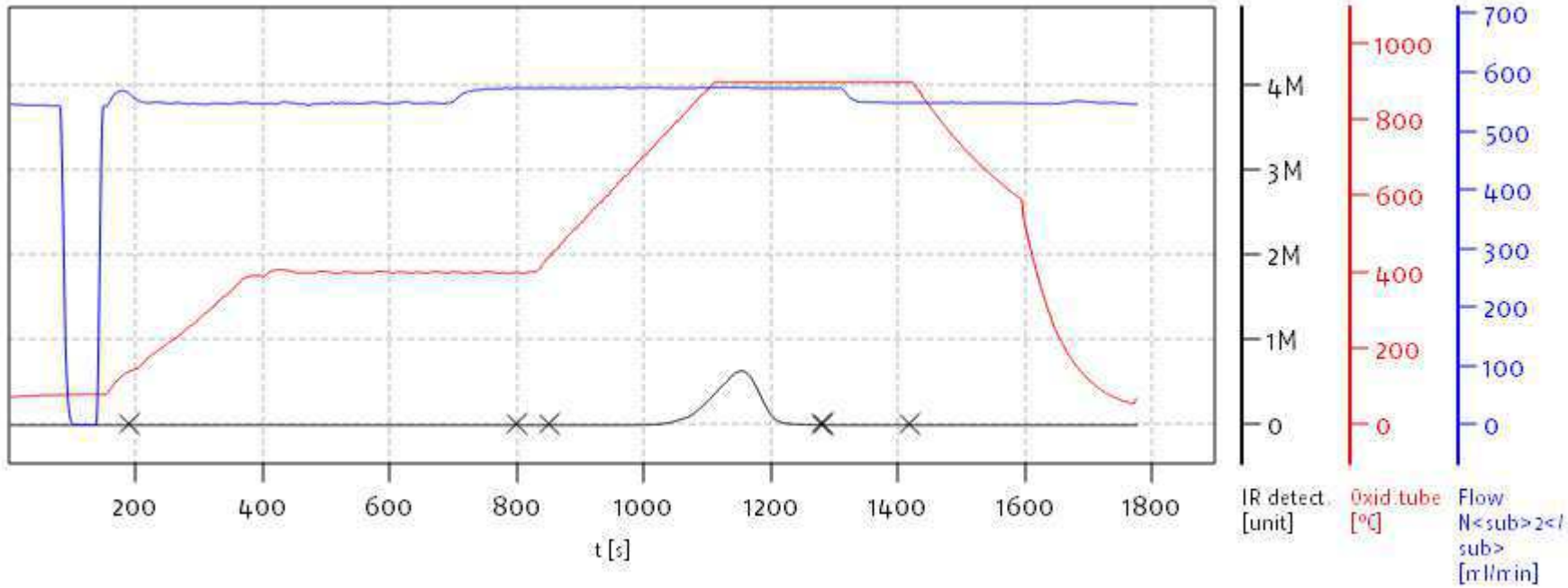
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
19	19	SEQ-CALH	200.00	0.0250	1.00	CARBON	4/26/2022 8:31 PM	0.009	1.524	1.533	bl,C1u,C2u	4 029	2 063 890	2 225	1.0000	0.9357



Name:

Access: soliTOC superuser

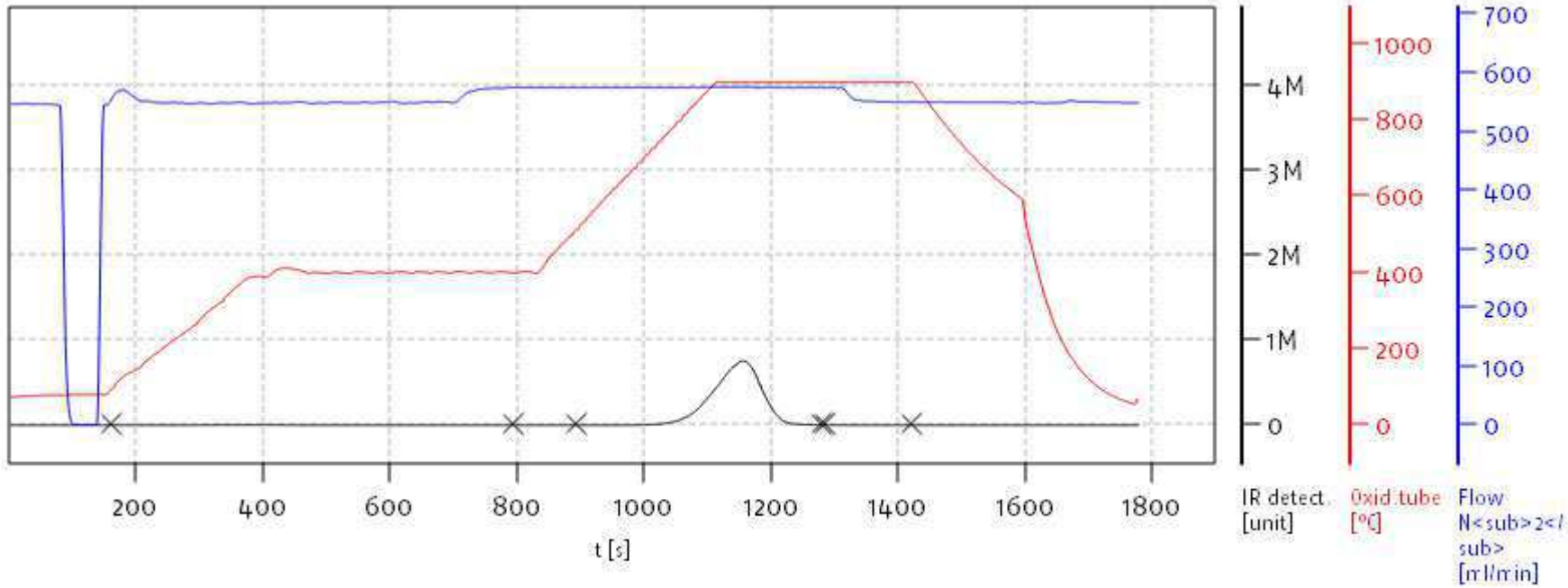
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
20	20	SEQ-CALI	200.00	0.0303	1.00	CARBON	4/26/2022 9:01 PM	0.017	1.800	1.817	bl,C2u	13 926	2 495 900	2 903	1.0000	0.9140



Name:

Access: soliTOC superuser

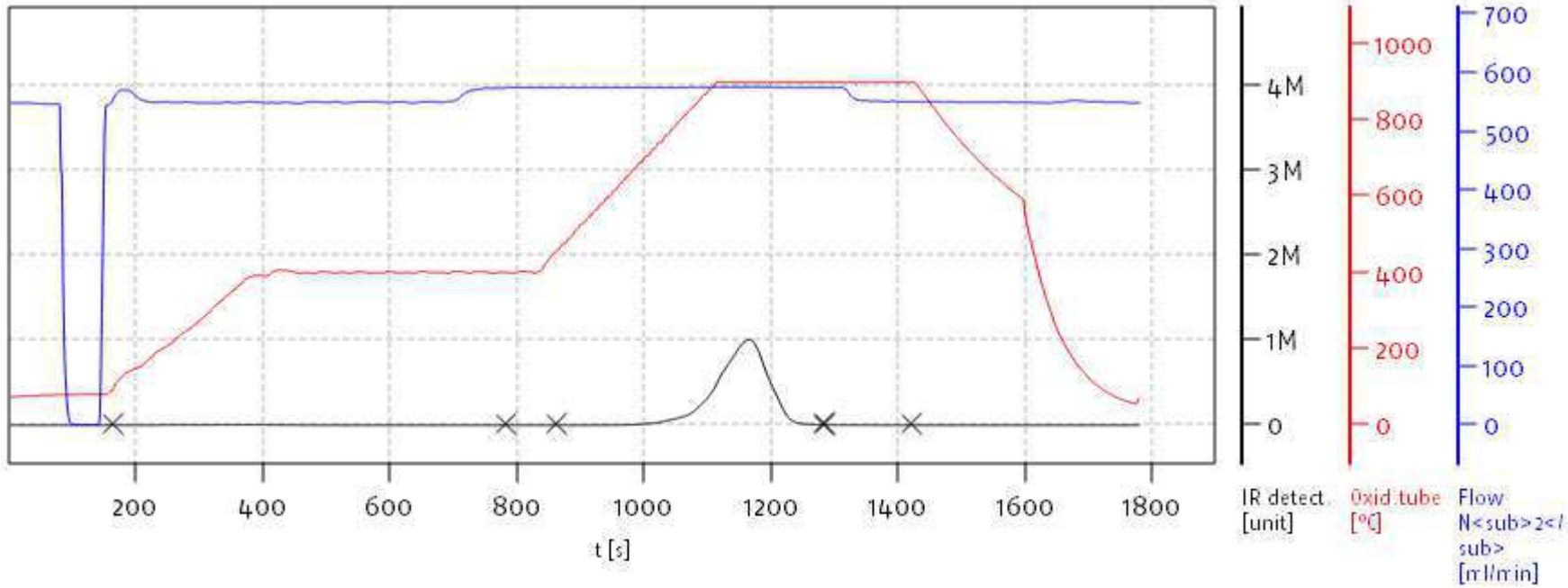
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
21	21	SEQ-CALJ	200.00	0.0415	1.00	CARBON	4/26/2022 9:31 PM	0.031	2.400	2.431	bl,C2u	28 786	3 482 530	5 351	1.0000	0.8737



Name:

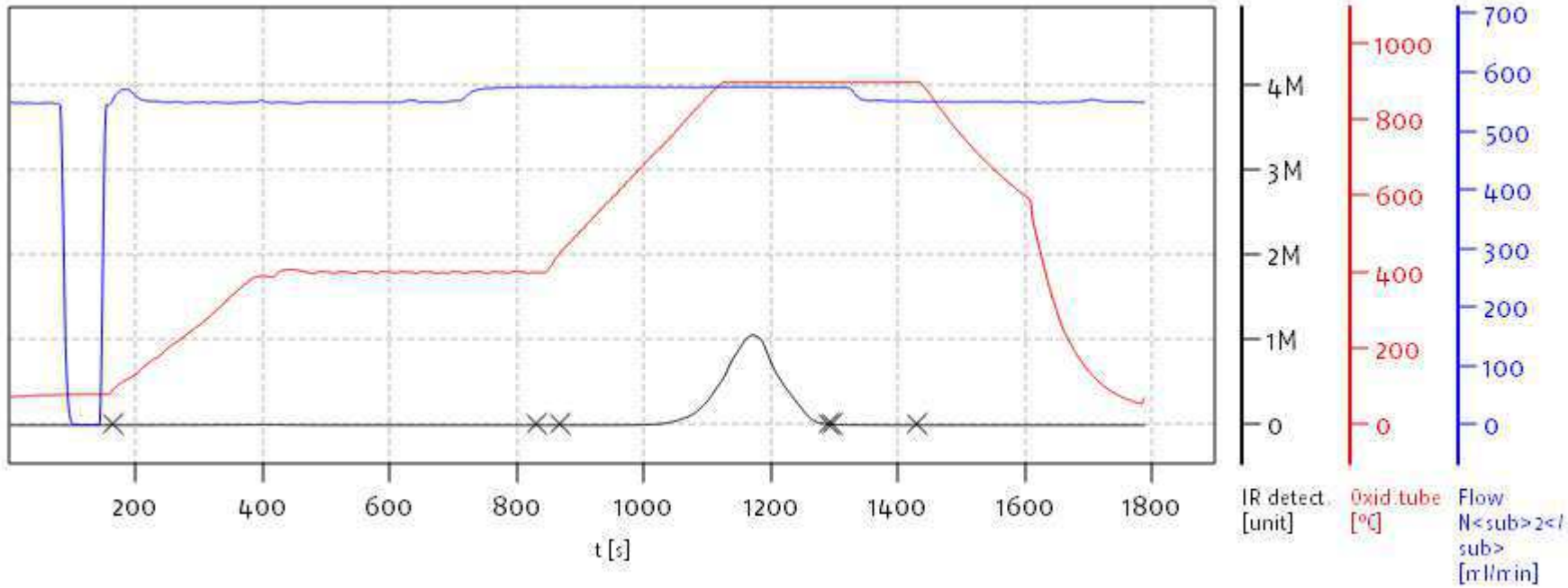
Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
22	22	SEQ-CALK	200.00	0.0497	1.00	CARBON	4/26/2022 10:01 PM	0.031	3.012	3.043	bl	23 732	4 105 830	9 736	1.0000	0.9301



Name:

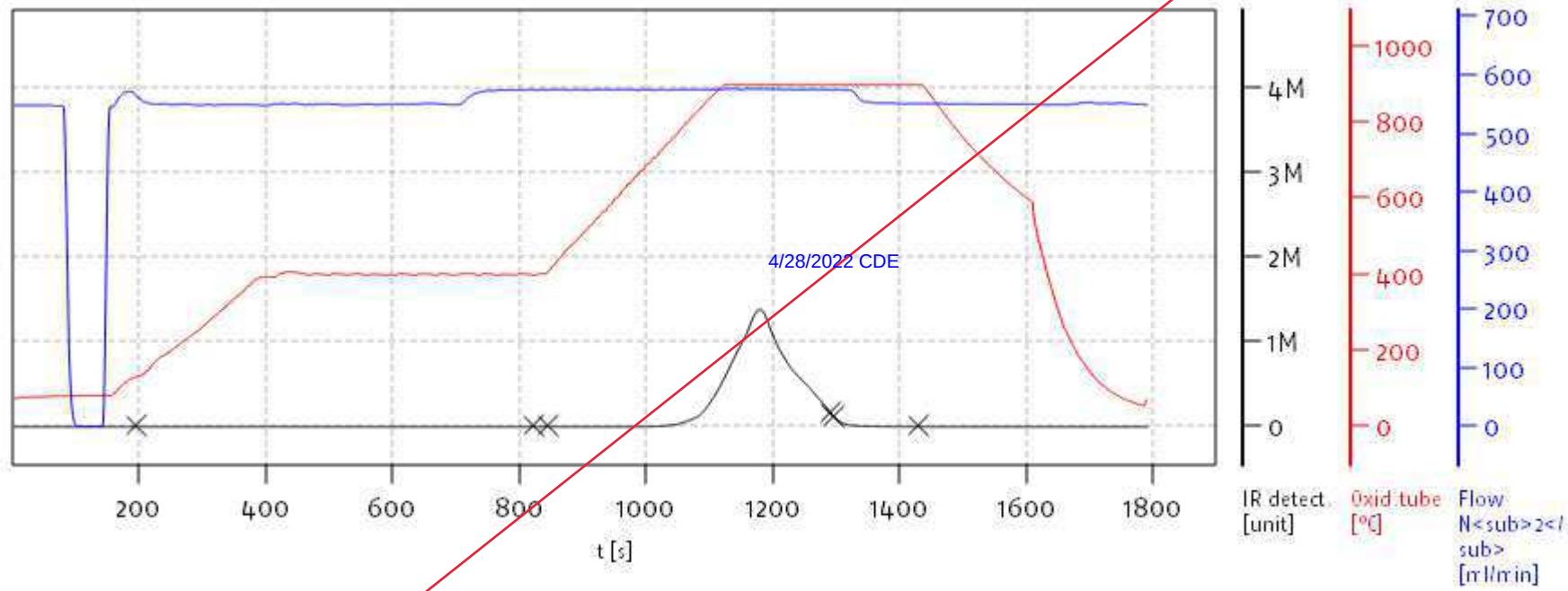
Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	23	SEQ-CALL	200.00	0.0698	1.00	CARBON	4/26/2022 10:31 PM	0.005	3.805	3.810	bl,C1u	3 605	5 648 620	71 970	1.0000	0.9443



Name:

Access: soliTOC superuser

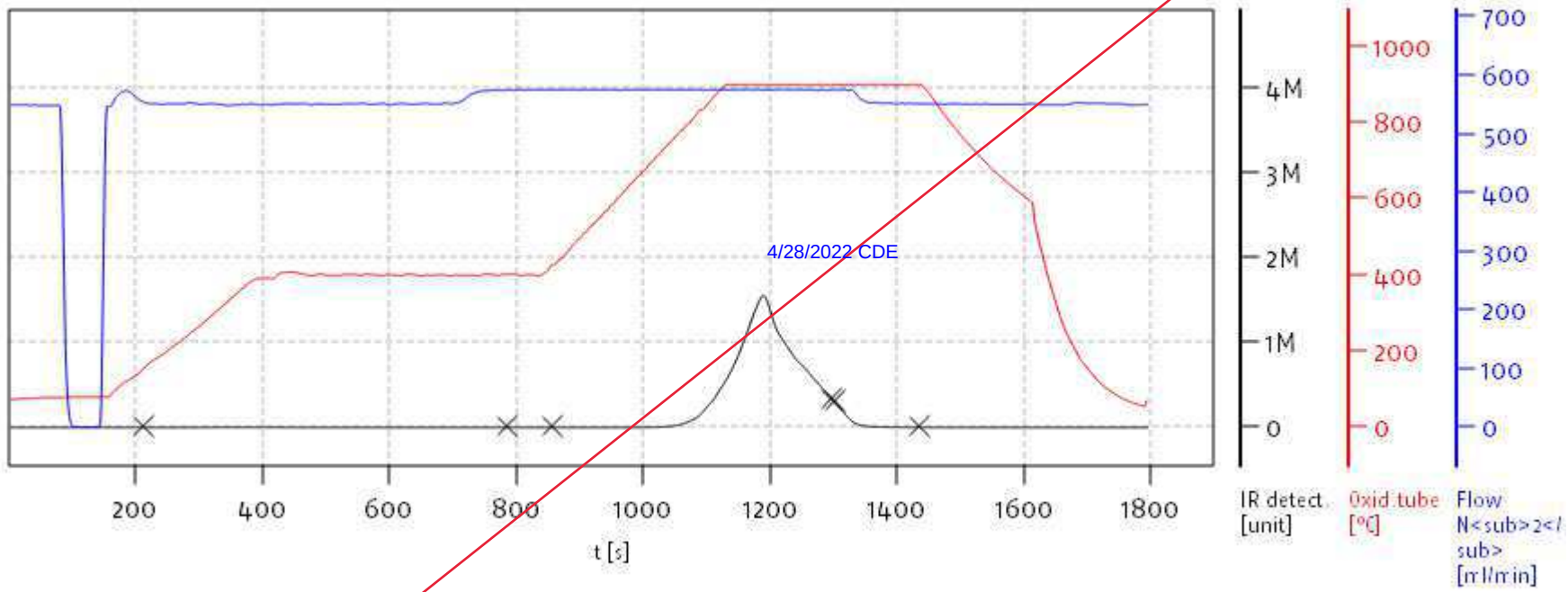
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	24	SEQ-CALM	200.00	0.0803	1.00	CARBON	4/26/2022 11:02 PM	0.010	4.637	4.647	bl	10 023	6 397 530	228 171	1.0000	0.9539



Name:

Access: soliTOC superuser

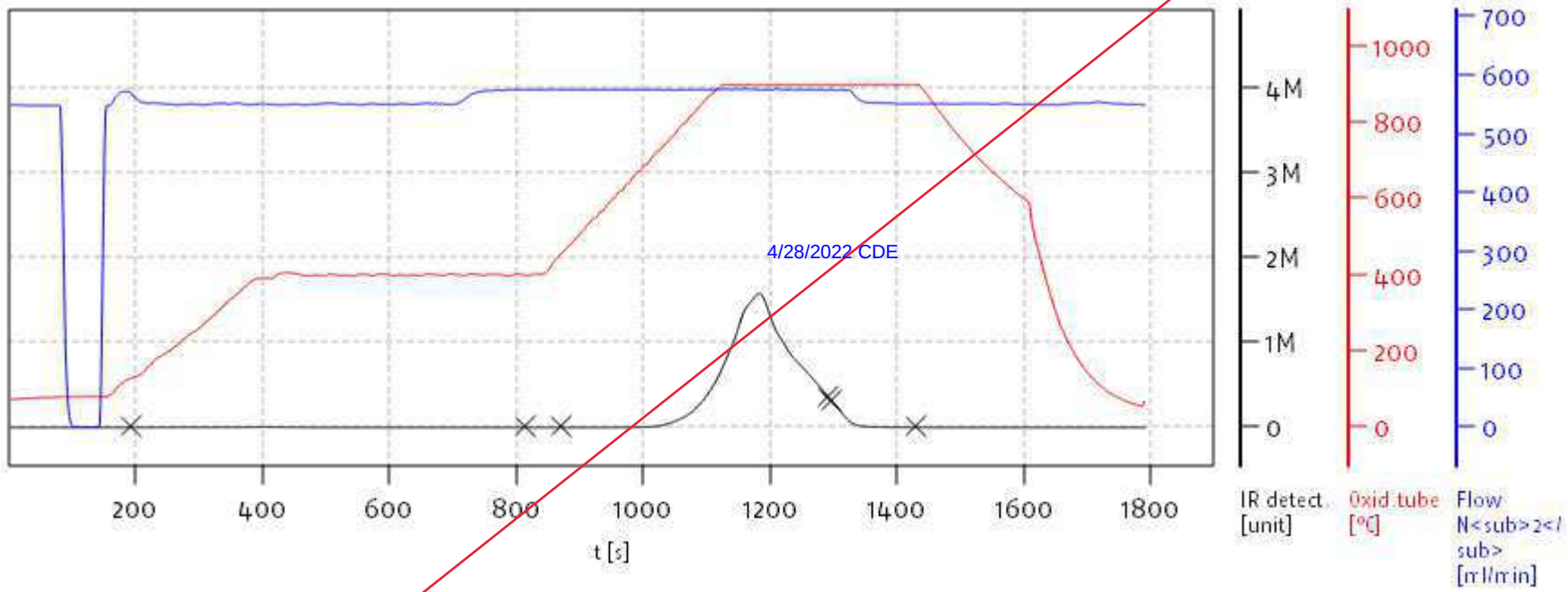
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	25	SEQ-CALN	200.00	0.0901	1.00	CARBON	4/26/2022 11:32 PM	0.020	5.219	5.239	bl	23 354	7 186 580	239 986	1.0000	0.9540



Name:

Access: soliTOC superuser

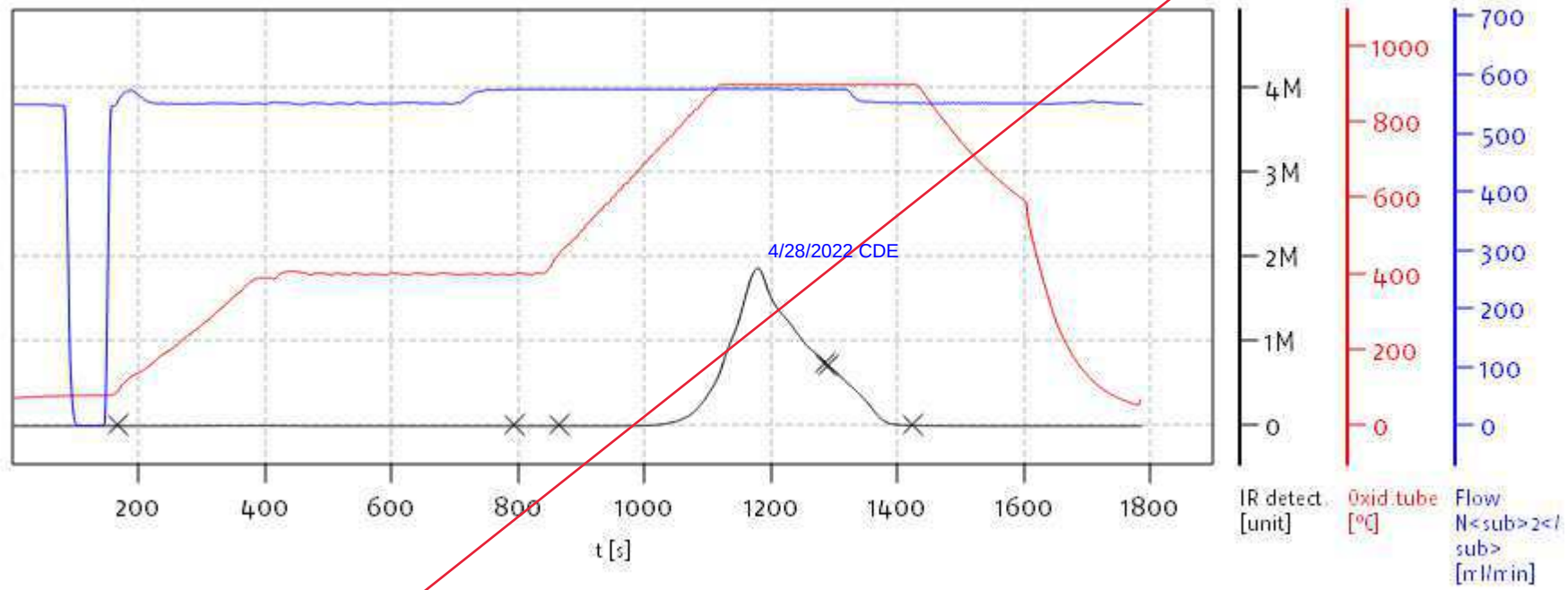
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	26	SEQ-CALO	200.00	0.1200	1.00	CARBON	4/27/2022 12:02 AM	0.019	7.915	7.934	bl,C3o	21 248	8 544 610	1 334 580	1.0000	1.0714



Name:

Access: soliTOC superuser

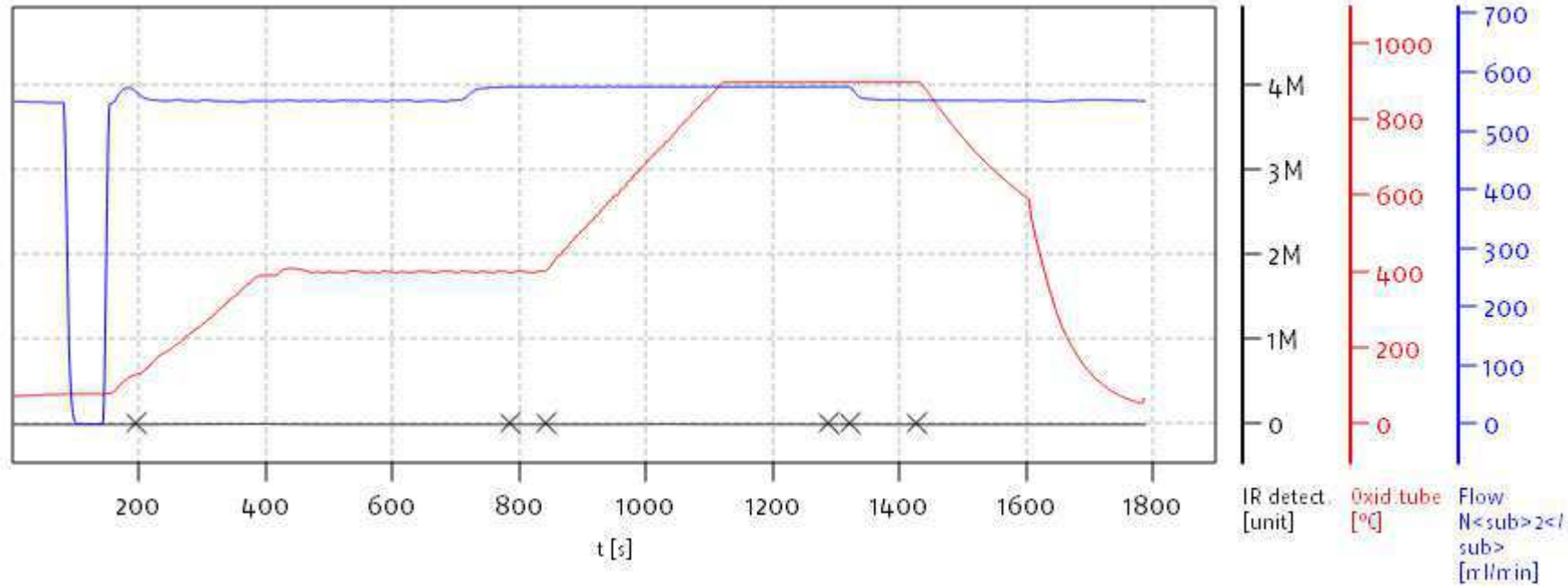
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
27	27	BLANK	1.00		1.00	CARBON	4/27/2022 12:32 AM	0.000	0.000	0.000	bl	29 766	19 596	1 205	1.0000	0.9007



Name:

Access: soliTOC superuser

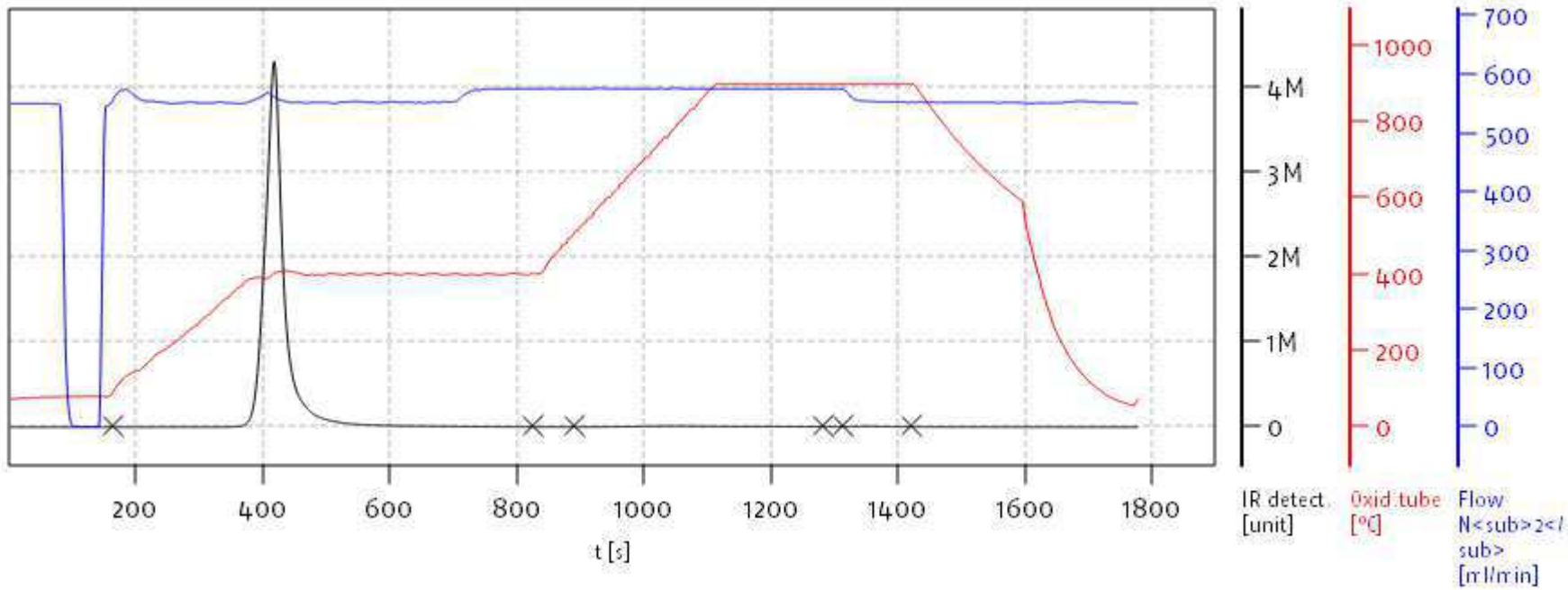
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
28	28	Dfactor	19.00		1.00	CARBON	4/27/2022 1:02 AM	44.678	0.893	45.571	bl	5 588 680	104 999	25 384	0.9581	1.0000



Name:

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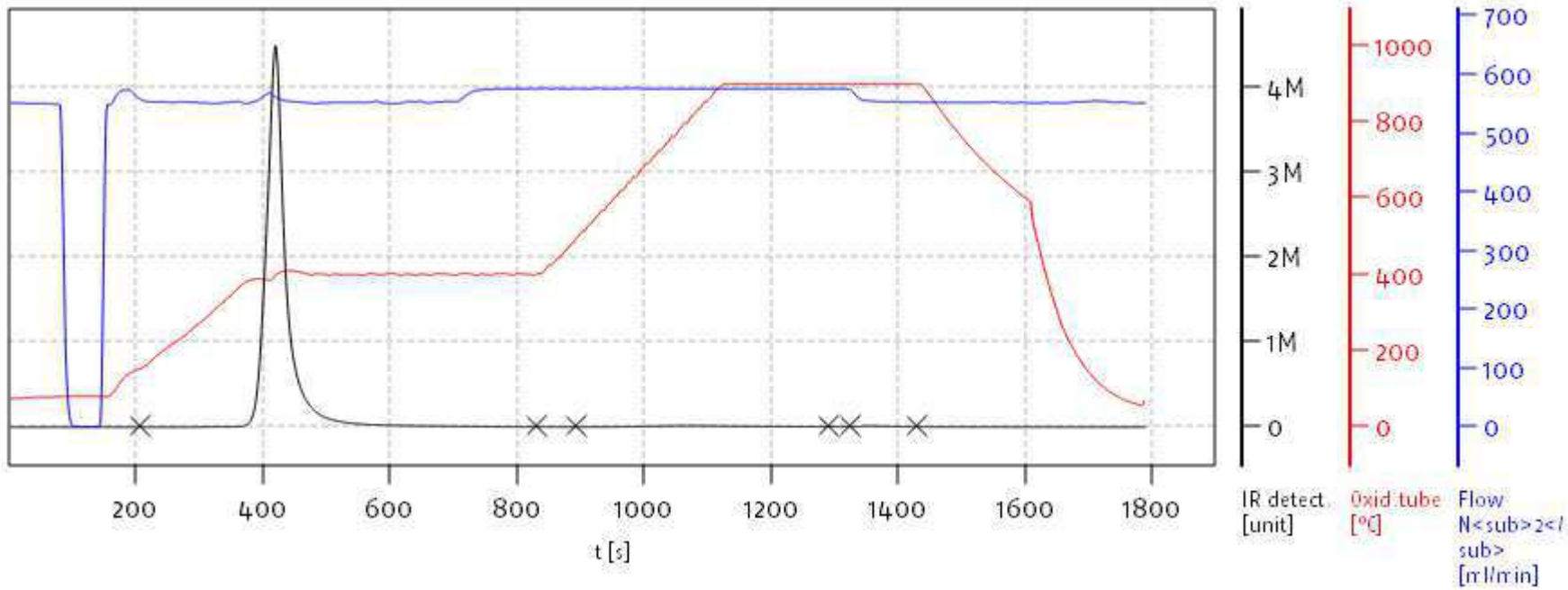
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
29	29	Dfactor	20.80		1.00	CARBON	4/27/2022 1:32 AM	44.694	0.937	45.631	bl	6 076 750	120 961	30 224	0.9647	1.0000



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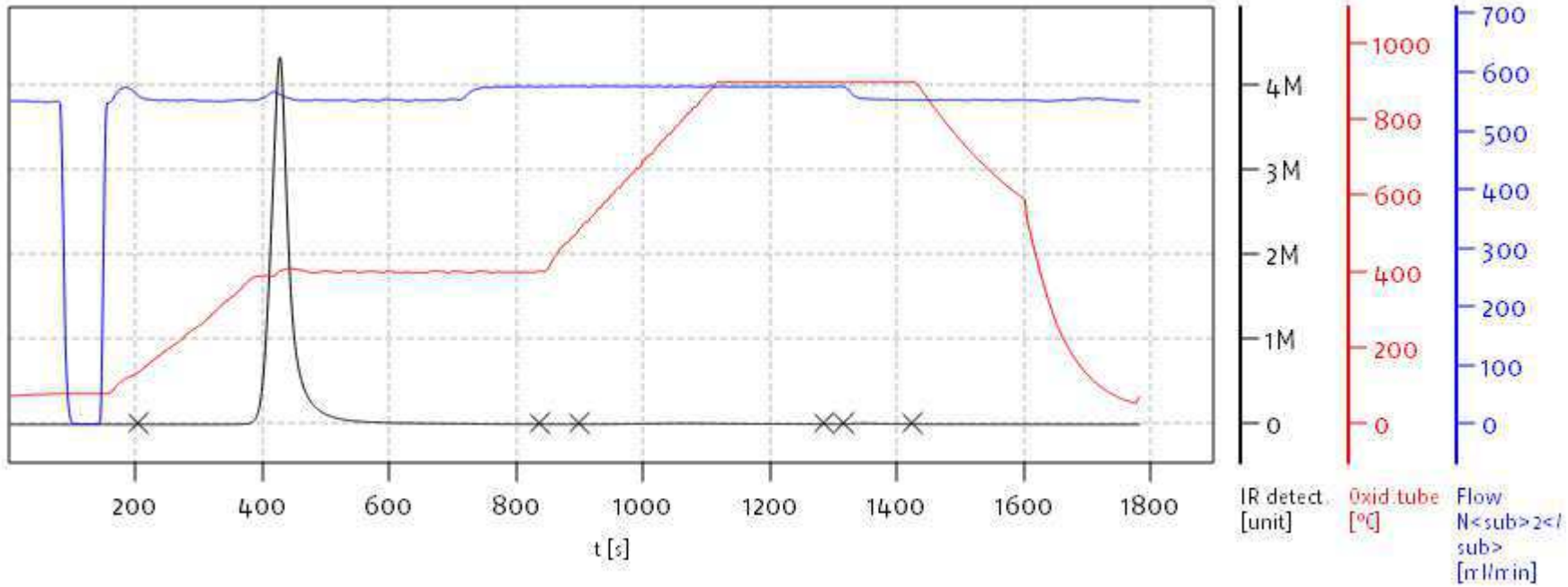
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
30	30	SEQ-ICV1	19.40		1.00	CARBON	4/27/2022 2:03 AM	44.964	0.742	45.706	bl	5 722 450	98 735	27 054	0.9614	0.9007



Name:

Access: soliTOC superuser

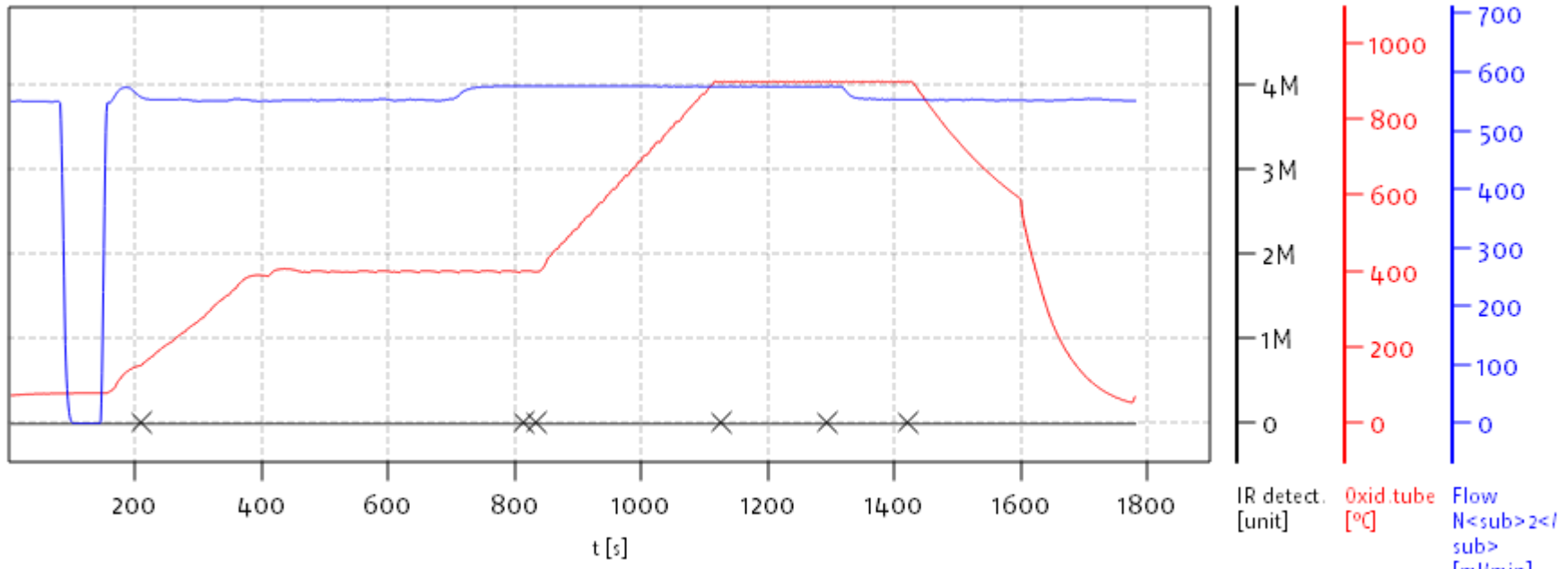
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
31	31	SEQ-ICB1	501.10		1.00	CARBON	4/27/2022 2:33 AM	0.002	0.001	0.003	bl,C1u,C3u,C2u	2 158	225	165	0.9614	0.9007



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

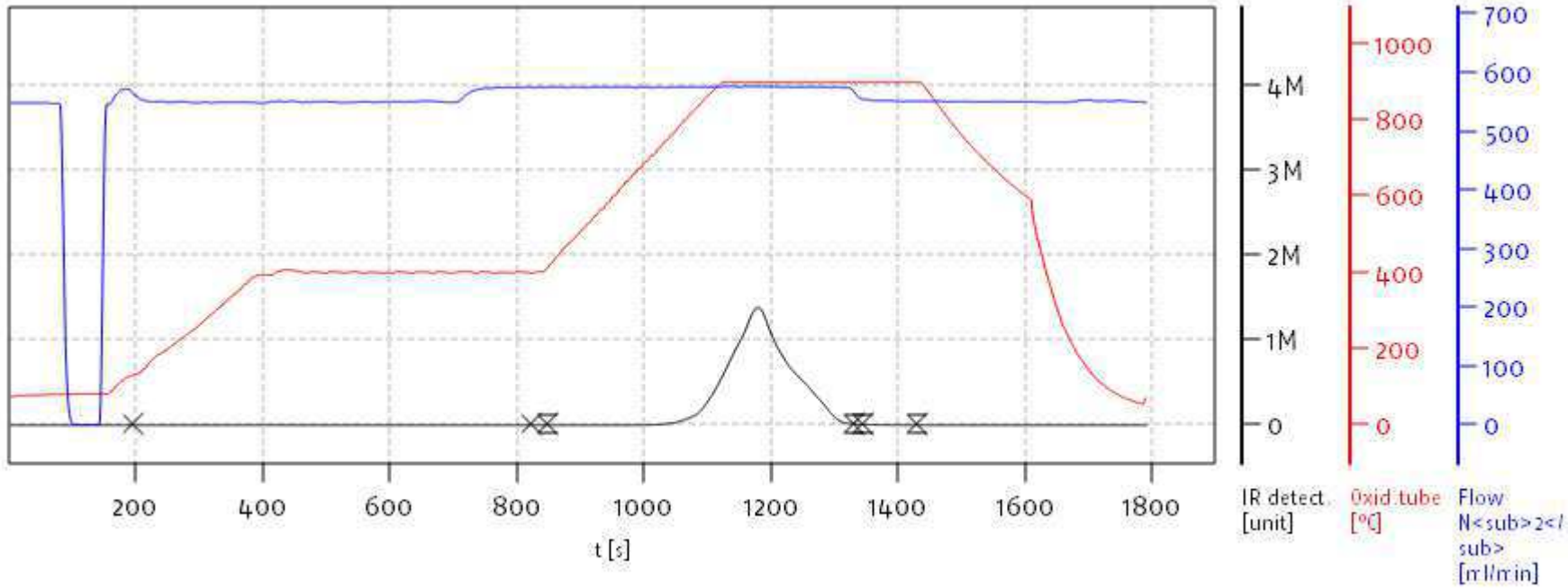
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	23	SEQ-CALL	200.00	0.0698	1.00	CARBON	4/27/2022 11:08 AM	0.005	3.917	3.922	bl,C1u	3 605	**5 260 365**	**0**	1.0000	0.9443



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

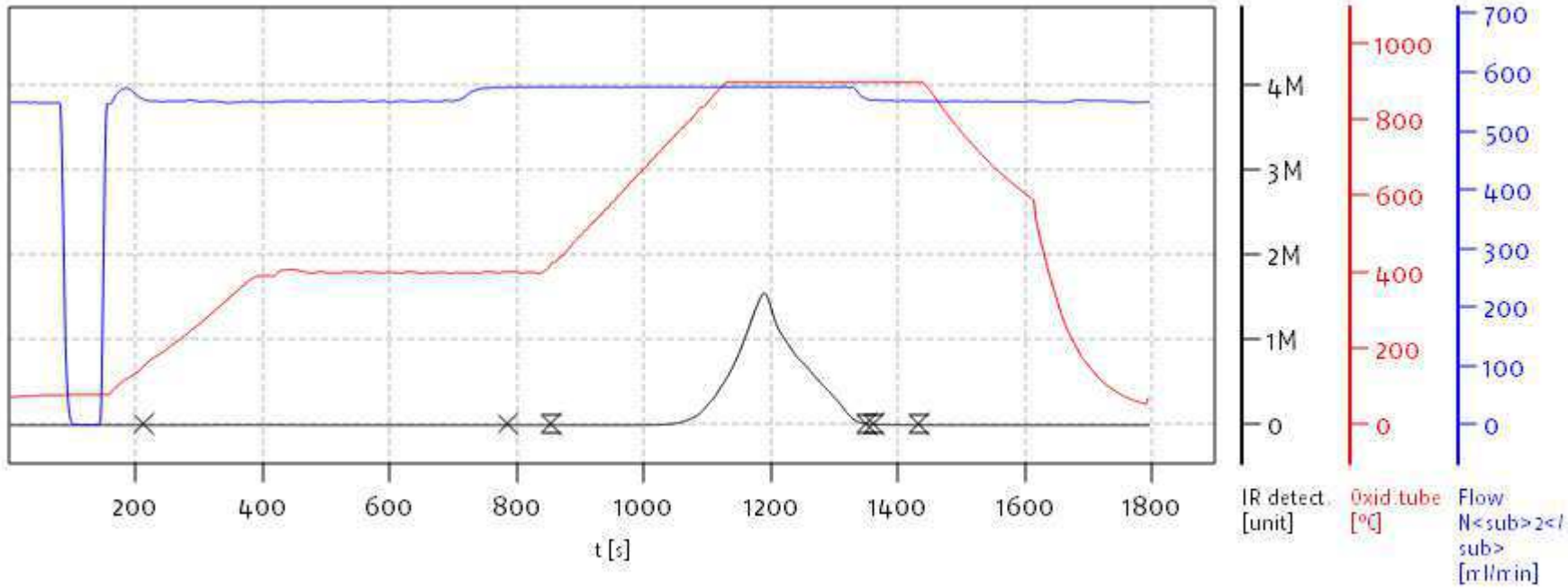
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	24	SEQ-CALM	200.00	0.0803	1.00	CARBON	4/27/2022 11:08 AM	0.010	4.637	4.647	bl	10 023	**6 164 833**	**0**	1.0000	0.9539



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

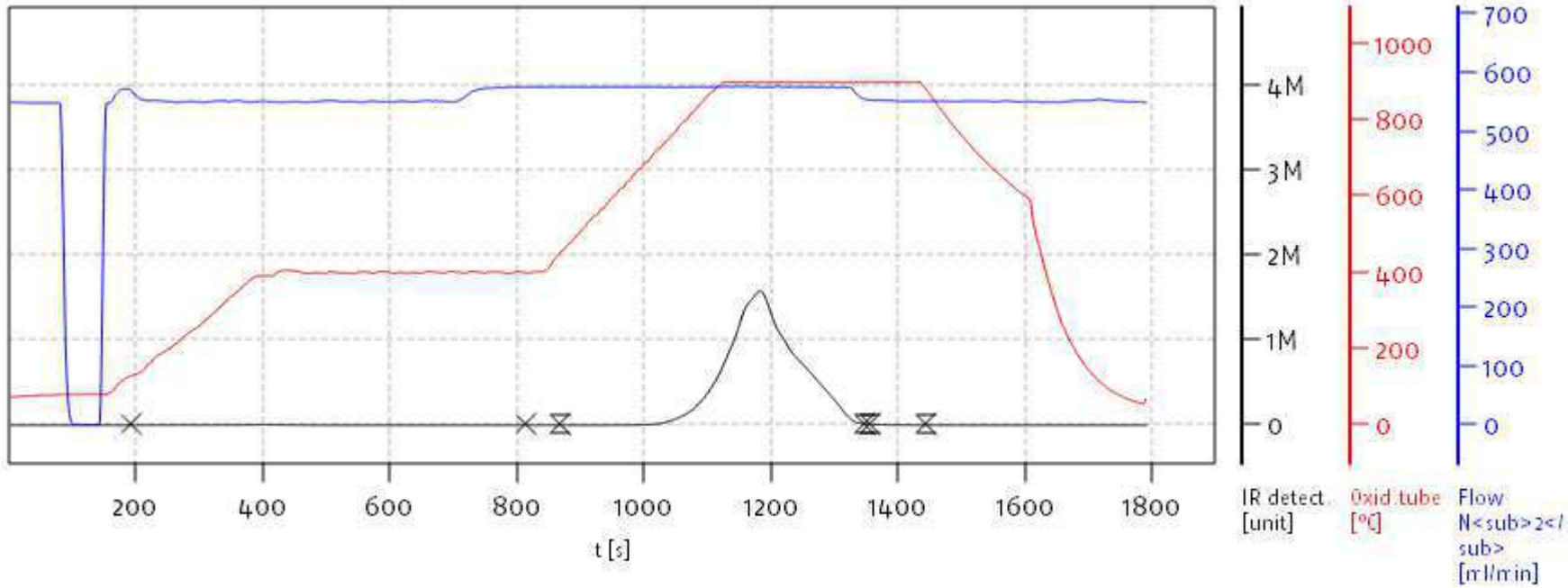
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	25	SEQ-CALN	200.00	0.0901	1.00	CARBON	4/27/2022 11:09 AM	0.020	5.219	5.239	bl	23 354	**6 937 833**	**0**	1.0000	0.9540



Name:

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Date: Wed Apr 27 11:10:16 2022

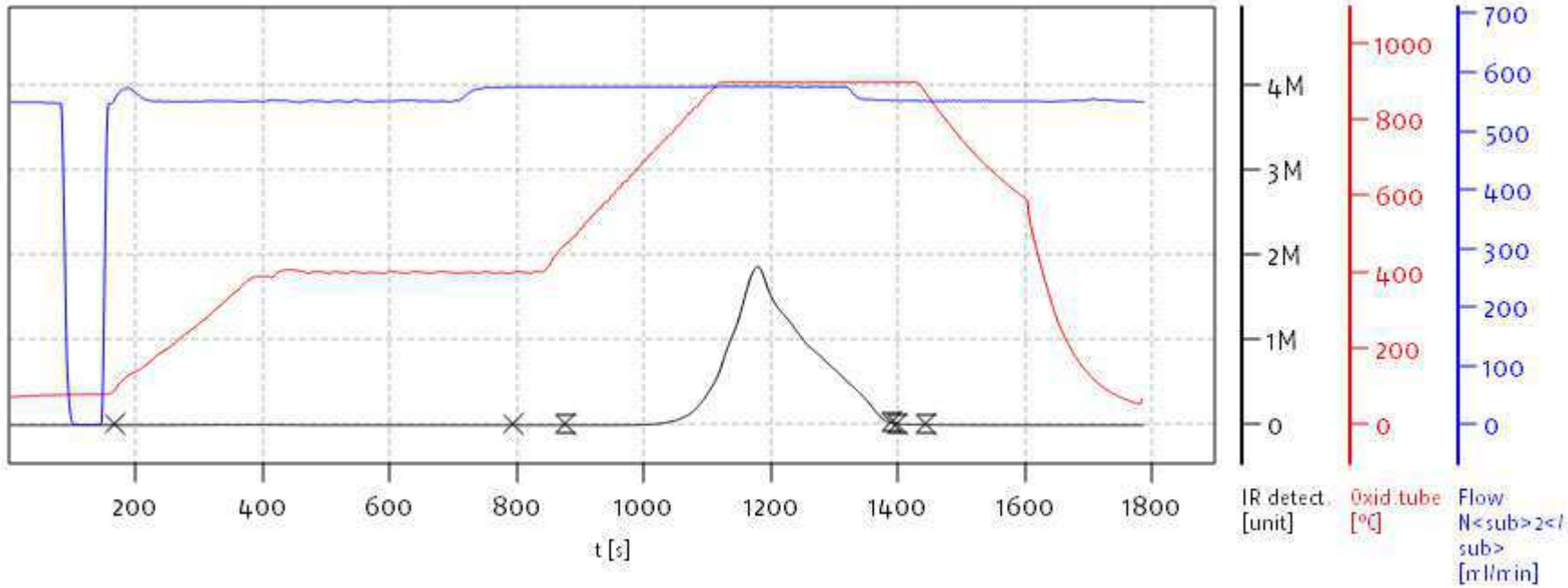
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	26	SEQ-CALO	200.00	0.1200	1.00	CARBON	4/27/2022 11:09 AM	0.019	7.915	7.934	bl,C3o	21 248	9 370 139	0	1.0000	1.0714



Name:

Access: soliTOC superuser

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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

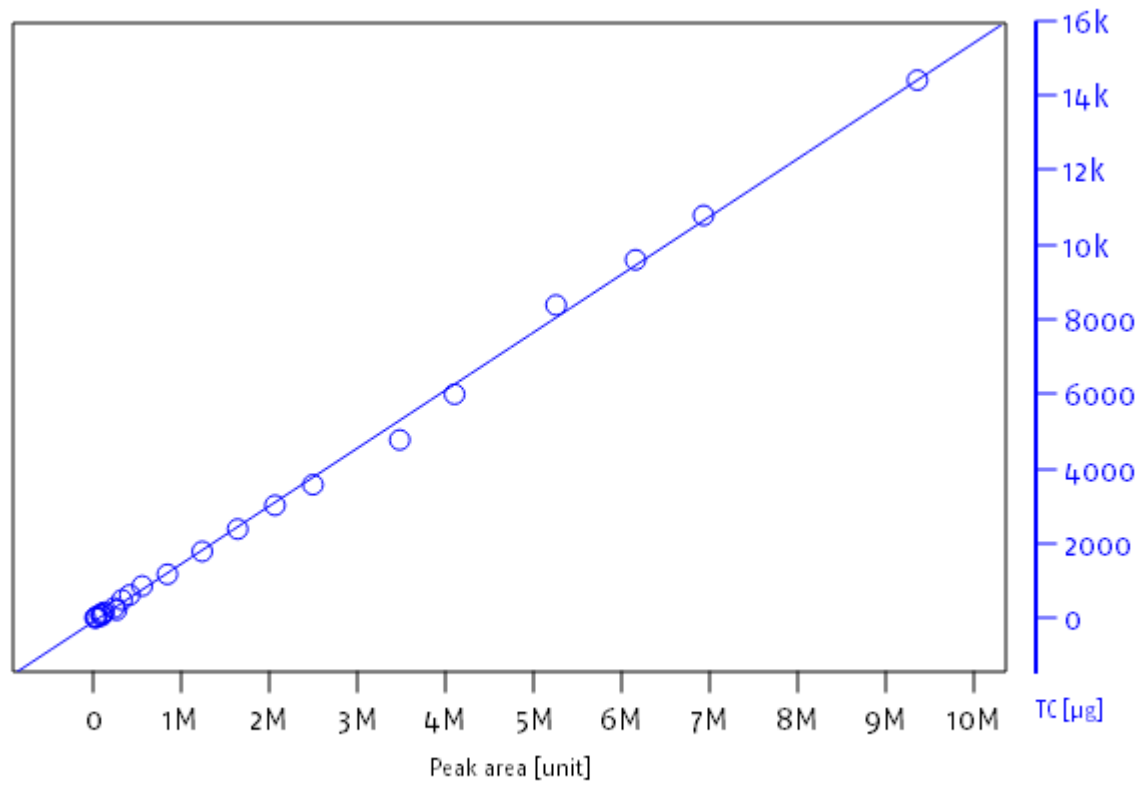
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Calibration parameters TC, Whole range

a	-4.107546e-02
b	+1.548032e-06
c	+0.000000e+00
d	+0.000000e+00
e	+0.000000e+00
r	0.998372
r_old	0.998372
Proc.-SD	166.070255 µg

Calibration graph TC, Whole range



INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: FD00070
Sequence: SKD0371
Date Analyzed: 04/27/22 02:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKD0371-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: TOC Cube
Sequence: SKL0336

SDG: 22L0459
Project: AOC5 MR Phase 1
Calibration: FD00070
Date Analyzed: 01/01/23 06:00

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0336-CCBE	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBF	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBG	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB5	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB6	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB7	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB8	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB9	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBA	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBB	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBC	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBD	Total Organic Carbon	0.00	0.02	0.02	%	

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKD0371

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKD0371-ICV1	Total Organic Carbon	44.446	43.7	98.3	%	EPA 9060A m
	Total Carbon	44.446	44.1	99.2	%	EPA 9060A m
	Total Inorganic Carbon	0.0000	0.40		%	EPA 9060A m
	% Soot	0.0000	0.004		%	EPA 9060A m

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKL0336

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKL0336-CCVE	Total Organic Carbon	44.446	43.3	97.5	%	EPA 9060A m
SKL0336-CCVF	Total Organic Carbon	44.446	43.9	98.8	%	EPA 9060A m
SKL0336-CCVG	Total Organic Carbon	44.446	44.1	99.2	%	EPA 9060A m
SKL0336-ICV1	Total Organic Carbon	44.446	44.5	100	%	EPA 9060A m
SKL0336-CCV1	Total Organic Carbon	44.446	44.1	99.3	%	EPA 9060A m
SKL0336-CCV2	Total Organic Carbon	44.446	44.1	99.3	%	EPA 9060A m
SKL0336-CCV3	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SKL0336-CCV4	Total Organic Carbon	44.446	45.5	102	%	EPA 9060A m
SKL0336-CCV5	Total Organic Carbon	44.446	45.3	102	%	EPA 9060A m
SKL0336-CCV6	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0336-CCV7	Total Organic Carbon	44.446	46.1	104	%	EPA 9060A m
SKL0336-CCV8	Total Organic Carbon	44.446	43.8	98.5	%	EPA 9060A m
SKL0336-CCV9	Total Organic Carbon	44.446	44.4	99.9	%	EPA 9060A m
SKL0336-CCVA	Total Organic Carbon	44.446	44.7	100	%	EPA 9060A m
SKL0336-CCVB	Total Organic Carbon	44.446	44.3	99.6	%	EPA 9060A m
SKL0336-CCVC	Total Organic Carbon	44.446	44.2	99.4	%	EPA 9060A m
SKL0336-CCVD	Total Organic Carbon	44.446	44.3	99.8	%	EPA 9060A m

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BKL0652-SRM1
Batch: BKL0652
Initial/Final: 0.2747 g / 0.2747 g
Preparation: Plumb 1981
Analyzed: 01/01/2023 2:26
Standard ID: K011789
Expires: 12/24/2023
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	2.99	0.02	0.02		100	80 - 120

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0459

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SC1123B 22L0459-01	12/16/22 08:19	12/16/22 15:47	12/30/22 08:30	14	28	01/01/23 09:03			
LDW23-SC1053C 22L0459-02	12/16/22 09:12	12/16/22 15:47	12/30/22 08:30	13	28	01/01/23 10:34			
LDW23-SC1039C 22L0459-03	12/16/22 09:50	12/16/22 15:47	12/30/22 08:30	13	28	01/01/23 11:05			
LDW23-SC1007B 22L0459-04	12/16/22 10:43	12/16/22 15:47	12/30/22 08:30	13	28	01/01/23 12:36			
LDW23-SC1002C 22L0459-05	12/16/22 11:20	12/16/22 15:47	12/30/22 08:30	13	28	01/01/23 13:06			
LDW23-SC1070B 22L0459-06	12/16/22 12:01	12/16/22 15:47	12/30/22 08:30	13	28	01/01/23 13:36			
LDW23-SC1091B 22L0459-07	12/16/22 12:38	12/16/22 15:47	12/30/22 08:30	13	28	01/01/23 14:07			
Duplicate BKL0652-DUP2	12/16/22 08:19	12/16/22 15:47	12/30/22 08:30	14	28	01/01/23 09:34			
Matrix Spike BKL0652-MS2	12/16/22 08:19	12/16/22 15:47	12/30/22 08:30	14	28	01/01/23 10:04			

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: TOC Cube

Analyte	MDL	RL	Units
Total Organic Carbon	0.02	0.02	%

National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material® 1941b

Organics in Marine Sediment

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. Information values are also provided for total organic carbon (TOC), total carbon, hydrogen, and nitrogen. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Certified Mass Fraction Values: Certified mass fraction values for PAHs, PCB congeners, and chlorinated pesticides are provided in Table 1 through Table 3. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST from two or more chemically independent analytical techniques along with results from an interlaboratory comparison study [1]. A NIST certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account [1].

Reference Mass Fraction Values: Reference mass fraction values for additional PAHs (some in combination), additional PCB congeners, and additional chlorinated pesticides are provided in Table 4 through Table 7. Reference values for alkylated PAH groups are provided in Table 8 and for selected hopanes and steranes in Table 9. A reference value for total organic carbon is provided in Table 10. Reference values are noncertified values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods [1].

Information Mass Fraction Values: Information mass fraction values are provided in Table 11 for carbon, hydrogen, and nitrogen. An information value is considered to be a value that will be of use to the SRM user, but insufficient information is available to assess the uncertainty associated with the value [1]. Information values cannot be used to establish metrological traceability.

Expiration of Certification: The certification of **SRM 1941b** is valid, within the measurement uncertainty specified, until **01 October 2020**, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Handling, Storage, and Use"). This certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

Maintenance of SRM Certification: NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet or register online) will facilitate notification.

Coordination of the technical measurements leading to the certification of this material was under the leadership of M.M. Schantz and S.A. Wise of the NIST Chemical Sciences Division.

Analytical measurements for the certification of SRM 1941b were performed at NIST by J.R. Kucklick, B.J. Porter, D.L. Poster, M.M. Schantz, P. Schubert, S. Tutschku, and L.L. Yu of the NIST Chemical Sciences Division.

Carlos A. Gonzalez, Chief
Chemical Sciences Division

Gaithersburg, MD 20899
Certificate Issue Date: 16 January 2015

Robert L. Watters, Jr., Director
Office of Reference Materials

Measurements for TOC were provided by a commercial laboratory and T.L. Wade of the Geochemical and Environmental Research Group, Texas A&M University (College Station, TX). The carbon, hydrogen, and nitrogen data were provided by a commercial laboratory. Results for the PAHs, PCBs, and chlorinated pesticides from 38 laboratories (see Appendix A) that participated in an interlaboratory comparison exercise coordinated by NIST were used. Results for the alkylated PAH groups, hopanes, and steranes from 33 laboratories (see Appendix B) that participated in another interlaboratory comparison exercise coordinated by NIST were also used.

Collection and preparation of SRM 1941b were performed by M.P. Cronise and C.N. Fales of the NIST Office of Reference Materials and B.J. Porter and M.M. Schantz of the NIST Chemical Sciences Division. The sediment material was collected with the assistance of G.G. Lauenstein, J. Collier, and J. Lewis (National Oceanic and Atmospheric Administration, Silver Spring, MD).

Consultation on the statistical design of the experimental work and evaluation of the data were provided by S.D. Leigh and J.H. Yen of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Office of Reference Materials.

INSTRUCTIONS FOR HANDLING, STORAGE, AND USE

Handling: This material is naturally occurring marine sediment from an urban area and may contain constituents of unknown toxicities; therefore, caution and care should be exercised during its handling and use.

Storage: SRM 1941b must be stored in its original bottle at temperatures less than 30 °C and away from direct sunlight.

Use: Prior to removal of subsamples for analysis, the contents of the bottle should be mixed. The mass fractions of constituents in SRM 1941b are reported on a dry-mass basis. The SRM, as received, contains a mass fraction of approximately 2.4 % moisture (see "Conversion to Dry-Mass Basis"). The sediment sample should be dried to a constant mass before weighing for analysis; or a separate subsample of the sediment should be removed from the bottle at the time of analysis and dried to determine the mass fraction on a dry-mass basis. If the constituents of interest are volatile, then the moisture must be determined with a separate subsample.

PREPARATION AND ANALYSIS[1]

Sample Collection and Preparation: The sediment used to prepare this SRM was collected from the Chesapeake Bay at the mouth of the Baltimore (MD) Harbor near the Francis Scott Key Bridge (39°12.3'N and 76°31.4'W). This location is very near the site where SRM 1941 and SRM 1941a were collected. The sediment was collected using a Kynar-coated modified Van Veen-type grab sampler. A total of approximately 3300 kg of wet sediment was collected from the site. The sediment was freeze-dried, sieved at 150 μm (100 % passing), homogenized in a cone blender, radiation sterilized (^{60}Co), and then packaged in screw-capped amber glass bottles each containing approximately 50 g.

Conversion to Dry-Mass Basis: The results for the constituents in SRM 1941b are reported on a dry-mass basis; however, the material "as received" contains residual moisture. The amount of moisture in SRM 1941b was determined by measuring the mass loss after freeze-drying subsamples of 1.1 g to 1.3 g for four days at 1 Pa with a –10 °C shelf temperature and a –50 °C condenser temperature. The moisture content in SRM 1941b at the time of the certification analyses was 2.39 % ± 0.08 % (95 % confidence level). Analytical results for the organic constituents were determined on an as-received basis and then converted to a dry-mass basis by dividing by the conversion factor of 0.9761 (gram dry mass per gram as-received mass).

Polycyclic Aromatic Hydrocarbons: The general approach used for the value assignment of the PAHs in SRM 1941b was similar to that reported in detail elsewhere [2]. The approach consisted of combining results from analyses using various combinations of different extraction techniques and solvents, clean-up/isolation procedures, and chromatographic separation and detection techniques: Soxhlet extraction and pressurized-fluid extraction (PFE) using dichloromethane (DCM) or a hexane/acetone mixture, cleanup of the extracts using solid-phase extraction (SPE) or normal-phase liquid chromatography (LC), followed by analysis using the following techniques: (1) reversed-phase liquid chromatography with fluorescence detection (LC-FL) analysis of the total PAH fraction, (2) reversed-phase

[1] Certain commercial equipment, instruments or materials are identified in this certificate to adequately specify the experimental procedure. Such identification does not imply recommendation or endorsement by the National Institute of Standards

LC-FL analysis of isomeric PAH fractions isolated by normal-phase LC (i.e., multidimensional LC), (3) gas chromatography/mass spectrometry (GC/MS) analysis of the PAH fraction on three stationary phases of different selectivity, i.e., a 5 % (all column compositions are given as mole fractions in %) phenyl-substituted methylpolysiloxane phase, a 50 % phenyl-substituted methylpolysiloxane phase, and a relatively non-polar proprietary phase.

Three sets of GC/MS results, designated as GC/MS (I), GC/MS (II), and GC/MS (III), were obtained using three columns with different selectivities for the separation of PAHs. For GC/MS (I) analyses, duplicate subsamples of approximately 1 g from ten bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 2 % DCM in hexane (all solvent concentrations are given as volume fractions in %). The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5 MS, J&W Scientific, Folsom, CA). The GC/MS (II) analyses were performed using 5 g subsamples from six bottles of SRM 1941b. These samples were extracted using PFE with DCM. The high molecular mass compounds were removed from the extracts using size exclusion chromatography (SEC) with a preparative-scale divinylbenzene-polystyrene column (10 μm particle size with 10 nm diameter pores), and the sulfur was removed from the extracts by adding copper powder. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The analysis was by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17 MS, J&W Scientific). For the GC/MS (III), 9 g subsamples from six bottles of SRM 1941b were Soxhlet-extracted for 18 h with 250 mL of a mixture of 50 % hexane/50 % acetone. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific).

Two sets of LC-FL results, designated as LC-FL (total) and LC-FL (isomer), were used in the certification process. For the LC-FL (total), subsamples of approximately 1 g from six bottles of SRM 1941b were extracted using PFE with a mixture of 50 % hexane/50 % acetone. The extracts were concentrated and then processed through an aminopropylsilane SPE cartridge using 2 % DCM in hexane to obtain the total PAH fraction. For the LC-FL (isomer), a 5 g subsample from the six bottles was extracted using PFE with DCM and processed through an aminopropylsilane SPE cartridge using 10 % DCM in hexane; the PAH fraction was then fractionated further on a semi-preparative aminopropylsilane column (μBondapak NH_2, 9 mm i.d. × 30 cm, Waters Associates, Milford, MA) to isolate isomeric PAH fractions as described previously [3–6]. The total PAH fraction and the isomeric PAH fractions were analyzed using a 5 μm particle-size polymeric octadecylsilane (C_{18}) column (4.6 mm i.d. × 25 cm, Hypersil-PAH, Keystone Scientific, Inc., Bellefonte, PA) with wavelength-programmed fluorescence detection [4,5].

For the GC/MS and LC-FL measurements described above, selected perdeuterated PAHs were added to the sediment prior to solvent extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PAHs in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

Homogeneity Assessment for PAHs: The homogeneity of SRM 1941b was assessed by analyzing duplicate samples of approximately 1 g from ten bottles selected by stratified random sampling. Samples were extracted, processed, and analyzed as described above for GC/MS (I). No statistically significant differences among bottles were observed for the PAHs at this sample size.

PAH Isomers of Molecular Mass 300 and 302: For the determination of the molecular mass 300 and 302 isomers, three subsamples of approximately 5 g each were extracted using PFE with DCM. The extracts were then concentrated with a solvent change to hexane and passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17MS, J&W Scientific). Perdeuterated dibenzo[*a,i*]pyrene was added to the sediment prior to extraction for use as an internal standard [8].

PCBs and Chlorinated Pesticides: The general approach used for the determination of PCBs and chlorinated pesticides in SRM 1941b consisted of combining results from analyses using various combinations of different extraction techniques and solvents, cleanup/isolation procedures, and chromatographic separation and detection techniques. Techniques and solvents included Soxhlet extraction and PFE using DCM or a hexane/acetone mixture.

clean-up/isolation using SPE or LC, followed by analysis using GC/MS and gas chromatography with electron capture detection (GC-ECD) on two columns with different selectivity for the separation of PCBs and chlorinated pesticides. The analytical methods are described in detail elsewhere [2].

Six sets of results were obtained and designated as GC-ECD (I) A and B, GC/MS (I) A and B, GC/MS (II), and Interlaboratory Comparison Exercise. For the GC-ECD (I) analyses, approximately 10 g subsamples from six bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur, and SEC, as described above, was used to remove the high molecular mass compounds. The concentrated extract was then fractionated on a semi-preparative aminopropylsilane column to isolate two fractions containing: (1) the PCBs and lower-polarity pesticides and (2) the more polar pesticides. GC-ECD analyses of the two fractions were performed on two columns of different selectivities for PCB separations: 0.25 mm × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5, J&W Scientific), and a 0.25 mm × 60 m fused silica capillary column with a non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The results from the 5 % phenyl phase are designated as GC-ECD (IA) and the results from the proprietary phase are designated as GC-ECD (IB). For the GC-ECD analyses, two PCB congeners that are not significantly present in the sediment extract (PCB 103 and PCB 198 [9,10]) and endosulfan I-d_4, 4,4'-DDE-d_8, 4,4'-DD-d_8, and 4,4'-DDT-d_8 were added to the sediment prior to extraction for use as internal standards for quantification purposes.

Two sets of results were obtained by GC/MS. For GC/MS (I), approximately 9 g subsamples from six bottles were Soxhlet- extracted with a mixture of 50 % hexane/50 % acetone for approximately 18 h. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS with two ionization modes, electron impact (EI) and negative ion chemical ionization (NICI). The GC/MS EI method, GC/MS (IA), used a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The GC/MS NICI method, GC/MS (IB), used a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5MS, J&W Scientific). The GC/MS (II) results were obtained in the same manner as the GC/MS (IA) analyses except that three subsamples were Soxhlet-extracted with DCM for approximately 18 h. For the GC/MS analyses, selected carbon-13 labeled PCB congeners and chlorinated pesticides were added to the sediment prior to extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PCB congeners and chlorinated pesticides in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

The reference value for PCB 77 was determined from a separate fraction. The samples were extracted and processed as for GC-ECD (I) above. The first (PCB and lower-polarity pesticide) fraction from the semi-preparative aminopropylsilane column was further fractionated using a Cosmosil PYE (pyrenylethyl group bonded) column (5 μm particle size, 4.6 mm i.d. × 25 cm ; Phenomenex, Torrance, CA) [11]. Three fractions were collected: the first fraction contained the pesticides and multi-*ortho* PCBs, the second fraction contained the polychlorinated naphthalenes, non-*ortho* PCB congeners, and some mono-*ortho* PCB congeners, and the third fraction removed the residual planar compounds from the column. The second fraction was analyzed by GC/MS NICI using the same column as GC/MS (IB) above. Carbon-13 labeled PCB 77 was used as an internal standard for quantification purposes.

Alkylated PAH Groups, Hopanes, and Steranes: SRM 1941b was used in an interlaboratory comparison exercise in 2011 [12]. Results from 33 laboratories that participated in this exercise were used in the determination of the reference values for alkylated PAH groups, hopanes, and steranes in SRM 1941b. Note that not all laboratories returned data for each analyte. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest. For the alkylated PAHs, the majority of the laboratories (>90 %) used the parent PAH for determination of the response factor for the corresponding alkylated group.

Total Organic Carbon (TOC): Two laboratories provided results for TOC using similar procedures. Briefly, subsamples of approximately 200 mg were reacted with 6 mol/L hydrochloric acid and rinsed with deionized water prior to combustion in a gas fusion furnace. The carbon monoxide and carbon dioxide produced were measured and compared to a blank for calculation of the percent TOC. Each laboratory analyzed subsamples from three bottles of SRM 1941b. One of the laboratories also analyzed three subsamples from three bottles of SRM 1941b for carbon, hydrogen, and nitrogen.

Table 1. Certified Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
Naphthalene[b,c,d,e,f,g]	848	±	95[h]
Fluorene[b,c,d,e,f,g]	85	±	15[h]
Phenanthrene[b,c,d,e,f,g]	406	±	44[h]
Anthracene[b,c,d,e,f,g]	184	±	18[h]
3-Methylphenanthrene[b,c,d]	105	±	13[h]
2-Methylphenathrene[b,c,d]	128	±	14[h]
1-Methylphenanthrene[b,c,d,g]	73.2	±	5.9[h]
Fluoranthene[b,c,d,e,f,g]	651	±	50[h]
Pyrene[b,c,d,e,f,g]	581	±	39[h]
Benz[*a*]anthracene[b,c,d,e,f,g]	335	±	25[h]
Chrysene[d,f]	291	±	31[h]
Triphenylene[d,f]	108	±	5[i]
Benzo[*b*]fluoranthene[c,e]	453	±	21[h]
Benzo[*k*]fluoranthene[b,c,d,e]	225	±	18[h]
Benzo[*e*]pyrene[b,c,d,g]	325	±	25[h]
Benzo[*a*]pyrene[b,c,d,f,g]	358	±	17[h]
Perylene[b,c,d,f,g]	397	±	45[h]
Benzo[*ghi*]perylene[b,c,d,f,g]	307	±	45[h]
Indeno[1,2,3-*cd*]pyrene[b,c,d,f,g]	341	±	57[h]
Dibenz[*a,j*]anthracene[b,c,d,f]	48.9	±	4.6[h]
Dibenz[*a,c*]anthracene[c,f]	36.7	±	5.2[h]
Dibenz[*a,h*]anthracene[c,f]	53	±	10[h]
Benzo[*b*]chrysene[b,c,d,f]	53	±	12[h]
Picene[b,c,d]	46.6	±	4.7[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[e] LC-FL (total) of total PAH fraction after PFE with DCM.
[f] LC-FL (isomer) of isomeric PAH fractions after PFE with DCM.
[g] 1999 Interlaboratory Comparison Study [7] with 21 to 29 laboratories submitting data for each PAH.
[h] Certified values are weighted means of the results from two to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[i] The certified value is an unweighted mean of the results from two analytical methods. The uncertainty listed with the value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the value is metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 2. Certified Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b] (µg/kg)		
PCB	8	(2,4'-Dichlorobiphenyl)[c,d,e,f,g]	1.65	±	0.19[h]
PCB	18	(2,2',5-Trichlorobiphenyl)[c,d,e,f,g]	2.39	±	0.29[h]
PCB	28	(2,4,4'-Trichlorobiphenyl)[c,d,e,f,g]	4.52	±	0.57[h]
PCB	31	(2,4',5-Trichlorobiphenyl)[c,e,f]	3.18	±	0.41[h]
PCB	44	(2,2'3,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	3.85	±	0.20[i]
PCB	49	(2,2'4,5'-Tetrachlorobiphenyl)[c,d,e,f]	4.34	±	0.28[i]
PCB	52	(2,2',5,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	5.24	±	0.28[i]
PCB	66	(2,3',4,4'-Tetrachlorobiphenyl)[c,e,f,g,j]	4.96	±	0.53[i]
PCB	87	(2,2',3,4,5'-Pentachlorobiphenyl)[c,d,f,j]	1.14	±	0.16[h]
PCB	95	(2,2',3,5',6-Pentachlorobiphenyl)[c,e,f,g]	3.93	±	0.62[i]
PCB	99	(2,2',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g]	2.90	±	0.36[i]
PCB	101	(2,2',4,5,5'-Pentachlorobiphenyl)[c,e,f,g,j]	5.11	±	0.34[i]
PCB	105	(2,3,3',4,4'-Pentachlorobiphenyl)[c,d,e,f,g,j]	1.43	±	0.10[i]
PCB	110	(2,3,3',4',6-Pentachlorobiphenyl)[c,e,f,j]	4.62	±	0.36[i]
PCB	118	(2,3',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g,j]	4.23	±	0.19[i]
PCB	128	(2,2',3,3',4,4'-Hexachlorobiphenyl)[c,d,e,f,g,j]	0.696	±	0.044[i]
PCB	138	(2,2',3,4,4',5'-Hexachlorobiphenyl)[c,e,f,j]	3.60	±	0.28[i]
PCB	149	(2,2',3,4',5',6-Hexachlorobiphenyl)[c,d,e,j]	4.35	±	0.26[h]
PCB	153	(2,2',4,4',5,5'-Hexachlorobiphenyl)[c,d,e,f,g,j]	5.47	±	0.32[i]
PCB	156	(2,3,3',4,4',5-Hexachlorobiphenyl)[c,d,e,f,j]	0.507	±	0.090[h]
PCB	170	(2,2',3,3',4,4',5-Heptachlorobiphenyl)[c,d,e,f,g,j]	1.35	±	0.09[i]
PCB	180	(2,2',3,4,4',5,5'-Heptachlorobiphenyl)[c,d,e,f,g,j]	3.24	±	0.51[i]
PCB	183	(2,2',3,4,4',5',6-Heptachlorobiphenyl)[c,d,e,j]	0.979	±	0.087[h]
PCB	187	(2,2',3,4',5,5',6-Heptachlorobiphenyl)[c,d,e,f,g,j]	2.17	±	0.22[i]
PCB	194	(2,2',3,3',4,4',5,5'-Octachlorobiphenyl)[c,d,e,j]	1.04	±	0.06[h]
PCB	195	(2,2',3,3',4,4',5,6-Octachlorbiphenyl)[c,e,g,j]	0.645	±	0.060[i]
PCB	201	(2,2',3,3',4,5',6,6'-Octachlorobiphenyl)[c,e,j]	0.777	±	0.034[h]
PCB	206	(2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)[c,e,f,g,j]	2.42	±	0.19[i]
PCB	209	Decachlorobiphenyl[c,d,e,f,g,j]	4.86	±	0.45[i]

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform to IUPAC rules, except PCB 201. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 201 is listed as PCB 200.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

[g] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each PCB congener.

[h] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[i] Certified values are weighted means of the results from three to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[j] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

Table 3. Certified Mass Fraction Values for Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a] (µg/kg)
Hexachlorobenzene[b,c,d,e]	5.83 ± 0.38[f]
cis-Chlordane[b,c,d,e,g]	0.85 ± 0.11[h]
trans-Chlordane[b,c,e]	0.566 ± 0.093[f]
cis-Nonachlor[b,e,g]	0.378 ± 0.053[h]
trans-Nonachlor[b,c,d,e,g]	0.438 ± 0.073[f]
4,4'-DDE[b,d,e,g]	3.22 ± 0.28[h]
4,4'-DDD[b,d,e,g]	4.66 ± 0.46[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[e] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each pesticide.
[f] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[g] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.
[h] Certified values are weighted means of the results from three to five analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed and the values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 4. Reference Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
1-Methylnaphthalene[b,c,d,e]	127	±	14[f]
2-Methylnaphthalene[b,c,d,e]	276	±	53[f]
2,6-Dimethylnaphthalene[b,c,d,e]	75.9	±	4.5[f]
2,3,5-Trimethylnaphthalene[b,c,d,e]	25.5	±	5.1[f]
Biphenyl[b,c,d,e]	74.0	±	8.0[f]
Acenaphthylene[b,c,d,e]	53.3	±	6.4[f]
Acenaphthene[b,c,d,e]	38.4	±	5.2[f]
9-Methylphenanthrene[c]	63.5	±	2.5[g]
4-Methylphenanthrene and 9-Methylphenanthrene[b,d]	80.1	±	4.8[f]
2-Methylanthracene[c,d]	36	±	15[f]
8-Methylfluoranthene[b]	49.5	±	2.7[g]
7-Methylfluoranthene[b]	45.4	±	1.5[g]
1-Methylfluoranthene[b]	42.4	±	2.1[g]
3-Methylfluoranthene[b]	28.8	±	1.3[g]
2-Methylpyrene[b]	78.7	±	4.0[g]
4-Methylpyrene[b]	66.4	±	2.6[g]
1-Methylpyrene[b]	52.5	±	2.3[g]
Acephenanthrene[d]	30.5	±	1.9[g]
Benzo[*c*]phenanthrene[b,c,d]	58	±	15[f]
Benzo[*a*]fluoranthene[b,c,d]	73	±	18[f]
Benzo[*j*]fluoranthene[c]	217	±	5[g]
Indeno[1,2,3-*cd*]fluoranthene[d]	9.63	±	0.34[g]
Pentaphene[d]	25.3	±	1.0[g]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[e] 1999 Interlaboratory Comparison Study [7] with 14 to 26 laboratories submitting data for each PAH.

[f] Reference values are weighted means of the results from two to four analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of PAHs listed as determined by the methods indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[g] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for the associated degrees of freedom (19 for footnote b and 5 for footnotes c and d) and 95 % confidence level for each analyte. The measurand is the total mass fraction of the PAHs listed as determined by the method indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 5. Reference Mass Fraction Values for PAHs of Molecular Mass 300 and 302 in SRM 1941b

PAHs of Molecular Mass 300 and 302	Mass Fractions[a,b,c] (µg/kg)		
Coronene	72.6	±	4.7
Dibenzo[*b,e*]fluoranthene	10.3	±	0.3
Naphtho[1,2-*b*]fluoranthene	91.0	±	3.1
Naphtho[1,2-*k*]fluoranthene and Naphtho[2,3-*j*]fluoranthene	79.8	±	2.5
Naphtho[2,3-*b*]fluoranthene	23.5	±	0.3
Dibenzo[*b,k*]fluoranthene	95.6	±	3.1
Dibenzo[*a,k*]fluoranthene	26.6	±	0.4
Dibenzo[*j,l*]fluoranthene	63.8	±	1.8
Dibenzo[*a,l*]pyrene	11.1	±	1.0
Naphtho[2,3-*k*]fluoranthene	10.7	±	0.6
Naphtho[1,2-*a*]pyrene	16.7	±	1.4
Naphtho[2,3-*e*]pyrene	33.2	±	2.3
Dibenzo[*a,e*]pyrene	76.1	±	3.6
Naphtho[2,1-*a*]pyrene	59.2	±	1.8
Dibenzo[*e,i*]pyrene	35.0	±	2.4
Naphtho[2,3-*a*]pyrene	16.5	±	0.6
Benzo[*b*]perylene	38.2	±	1.2
Dibenzo[*a,i*]pyrene	25.5	±	1.0
Dibenzo[*a,h*]pyrene	6.94	±	0.29

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for two degrees of freedom and 95 % confidence level for each analyte. The measurand is the total mass fraction of the constituent listed as determined by the method indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[c] GC/MS on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM [8].

Table 6. Reference Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b,c] (µg/kg)		
PCB	45	(2,2',3,6-Tetrachlorobiphenyl)[d,e]	0.73	±	0.12
PCB	56	(2,3,3',4'-Tetrachlorobiphenyl)[d,f,g]	1.21	±	0.11
PCB	63	(2,3,4',5-Tetrachlorobiphenyl)[e,f,g]	0.213	±	0.040
PCB	70	(2,3',4',5-Tetrachlorobiphenyl)[e,f,g]	4.99	±	0.29
PCB	74	(2,4,4',5-Tetrachlorobiphenyl)[e,f,g]	2.04	±	0.15
PCB	77	(3,3',4,4'-Tetrachlorobiphenyl)[h]	0.31	±	0.03
PCB	107	(2,3,3',4',5-Pentachlorobiphenyl)[d,e,f,g]	0.628	±	0.028
PCB	132	(2,2',3,3',4,6'-Hexachlorobiphenyl)[d,f,g]	1.28	±	0.27
PCB	146	(2,2',3,4',5,5'-Hexachlorobiphenyl)[e,f,g]	1.22	±	0.12
PCB	158	(2,3,3',4,4',6-Hexachlorobiphenyl)[d,e,f,g]	0.65	±	0.15
PCB	163	(2,3,3',4',5,6-Hexachlorobiphenyl)[e,f,g]	1.28	±	0.06
PCB	174	(2,2',3,3',4,5,6'-Heptachlorobiphenyl)[d,e,f,g]	1.51	±	0.39
PCB	193	(2,3,3',4',5,5',6-Heptachlorobiphenyl)[d,e,f,g]	0.292	±	0.075

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform with IUPAC rules, except PCB 107. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 107 is listed as PCB 108.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] For these PCB congeners except PCB 77, the reference values are unweighted means of the results from two to four analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled within-method variance following the ISO/JCGM Guide [14,15]. For PCB 77, the reference value is the mean of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution corresponding to two degrees of freedom and 95 % confidence level for PCB 77. The measurand is the total mass fraction of the PCB Congeners listed as determined by the method or methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as microgram per kilogram on a dry-mass basis.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[g] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

[h] GC/MS NICI on a 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC-ECD (I) fractionated using a PYE column.

Table 7. Reference Mass Fraction Values for Selected Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a,b] (µg/kg)		
2,4'-DDE[c,d]	0.38	±	0.12
4,4'-DDT[e,f]	1.12	±	0.42

[a] Mass Fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference values are unweighted means of the results from two analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).
[e] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[f] 1999 Interlaboratory Comparison Study [7] with 10 laboratories submitting data for 4,4'-DDT.

Table 8. Reference Mass Fraction Values for Alkylated PAH Groups in SRM 1941b

Alkylated PAH Group	Mass Fraction[a,b] (µg/kg)		
C2-decalins	18	±	5
C4-decalins	41	±	4
C2-naphthalenes	187	±	53
C3-naphthalenes	158	±	42
C1-benzothiophenes	25	±	14
C2-benzothiophenes	20	±	11
C3-benzothiophenes	22	±	13
C4-benzothiophenes	18	±	5
C1-fluorenes	57	±	18
C2-fluorenes	122	±	43
C3-fluorenes	128	±	31
C1-phenanthrenes/anthracenes	313	±	99
C2-phenanthrenes/anthracenes	247	±	62
C3-phenanthrenes/anthracenes	165	±	46
C4-phenanthrenes/anthracenes	87	±	36
C1-dibenzothiophenes	54	±	13
C2-dibenzothiophenes	91	±	18
C3-dibenzothiophenes	84	±	15
C4-dibenzothiophenes	57	±	13
C1-fluoranthenes/pyrenes	252	±	48
C2-fluoranthenes/pyrenes	205	±	38
C3-fluoranthenes/pyrenes	102	±	22
C4-fluoranthenes/pyrenes	121	±	59
C1-benzanthraces/chrysenes/triphenylenes	208	±	43
C2-benzanthraces/chrysenes/triphenylenes	120	±	24
C3-benzanthraces/chrysenes/triphenylenes	73	±	31
C4-benzanthraces/chrysenes/triphenylenes	41	±	11

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the alkylated PAH groups listed as determined by the interlaboratory study methods. The values listed are metrologically traceable to the SI unit of mass fraction, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 9. Reference Mass Fraction Values for Hopanes and Steranes in SRM 1941b

Hopane or Sterane	Mass Fraction[a,b] (µg/kg)
17α(H)-22,29,30-Trisnorhopane	54 ± 18
17α(H)-21β(H)-30-Norhopane	137 ± 21
17α(H)-21β(H)-30-Hopane	215 ± 44
17α(H)-21β(H)-22R-Homohopane	44 ± 10
17α(H)-21β(H)-22S-Homohopane	48 ± 13
5α(H)-14α(H),17α(H)-Cholestane 20R	41 ± 11
5α(H)-14β(H),17β(H)-Cholestane 20R	27 ± 6
5α(H)-14β(H),17β(H)-24-Methylcholestane 20R	21 ± 8
5α(H)-14α(H),17α(H)-24-Ethylcholestane 20R	19 ± 5
5α(H)-14β(H),17β(H)-24-Ethylcholestane 20R	41 ± 9

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the constituent listed as determined by the methods used during the interlaboratory study. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 10. Reference Mass Fraction Value for Total Organic Carbon in SRM 1941b

Total Organic Carbon (TOC)	2.99 % ± 0.24 %[a,b]

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference value for total organic carbon is a weighted mean value from routine measurements made by two laboratories [21]. The uncertainty listed is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance. The reporting follows the ISO/JCGM Guides [2]. The measurand is the total mass fraction of TOC listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as a percent on a dry-mass basis.

Table 11. Information Mass Fraction Values for Carbon, Hydrogen, and Nitrogen in SRM 1941b

Elements	Mass Fractions[a] (%)
Carbon	3.3
Hydrogen	1.2
Nitrogen	<0.5

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.

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Certificate Revision History: 16 January 2015 (Corrected IUPAC name for PCB-56 and PCB-107; editorial changes); 10 June 2014 (Units corrected from mg/kg to µg/kg in Tables 8 and 9; editorial changes); 10 April 2012 (Reference value added for alkylated PAH groups, hopanes, and steranes; extension of certification period; editorial changes); 16 August 2004 (Reference values for the butyl tins removed; editorial changes); 15 July 2002 (Original certificate date).

Users of this SRM should ensure that the Certificate of Analysis in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srminfo@nist.gov; or via the Internet at http://www.nist.gov/srm.

APPENDIX A

The laboratories listed below performed measurements that contributed to the certification of PAHs, PCBs, and chlorinated pesticides in SRM 1941b Organics in Marine Sediment.

Arthur D. Little, Inc; Cambridge, MA
Axys Analytical Services; Sidney, BC, Canada
B & B Laboratories; College Station, TX
Battelle Ocean Sciences; Duxbury, MA
Bedford Institute of Oceanography; Dartmouth, NS, Canada
California Department of Fish and Game; Rancho Cordova, CA
Central Contra Costa Sanitary District; Martinez, CA
Chesapeake Biological Laboratory; Solomons, MD
Centro de Investigacionies Energeticas Medioambientales y Tecnologicas; Madrid, Spain
City of Los Angeles Environmental Monitoring Division; Playa del Rey, CA
City of San Jose Environmental Services Department; San Jose, CA
Columbia Analytical Services; Kelso, WA
East Bay Municipal Utility District; Oakland, CA
Florida Department of Environmental Protection; Tallahassee, FL
Manchester Environmental Laboratory; Port Orchard, WA
Murray State University; Murray, KY
Massachusetts Water Resources Authority Central Lab; Winthrop, MA
National Research Council of Canada; Ottawa, Ontario, Canada
National Oceanic and Atmospheric Association (NOAA), National Marine Fisheries Service (NMFS), Auke Bay Laboratory; Juneau, AK
NOAA, National Ocean Service/Center for Coastal Environmental Health and Biomolecular Research; Charleston, SC
NOAA, NMFS, Sandy Hook Marine Laboratory; Highlands, NJ
NOAA, NMFS, Northwest Fisheries Science Center; Seattle, WA
Orange County Sanitation District; Fountain Valley, CA
Philip Analytical Services; Burlington, Ontario, Canada
Serv de Hidrografia Naval; Buenos Aires, Argentina
Skidaway Institute of Technology; Savannah, GA
Southwest Laboratory of Oklahoma; Broken Arrow, OK
Severn Trent Knoxville Laboratory; Knoxville, TN
Texas A&M University, Geochemical and Environmental Research Group; College Station, TX
Texas Parks and Wildlife Department; San Marcos, TX
University of California at Los Angeles, Institute of Geophysics and Planetary Physics; Los Angeles, CA
University of Connecticut, Environmental Research Institute; Storrs, CT
University of Rhode Island, Graduate School of Oceanography; Narragansett, RI
US Department of Agriculture, Environmental Chemistry Laboratory; Beltsville, MD
US Environmental Protection Agency, Atlantic Ecology Division; Narragansett, RI
US Geological Survey, National Water Quality Laboratory; Denver, CO
Woods Hole Group Environmental Lab; Raynham, MA
Wright State University; Dayton, OH

APPENDIX B

The laboratories listed below performed measurements that contributed to the certification of alkylated PAH groups, hopanes, and steranes in SRM 1941b Organics in Marine Sediment.

Alpha Analytical, Inc.; Mansfield, MA
Analytical Resources, Inc.; Tukwila, WA
Axys Analytical Services; Sydney, BC, Canada
Battelle Analytical & Environmental Chemistry Laboratory; Duxbury, MA
Center for Laboratory Sciences; Pasco, WA
Columbia Analytical Services; Jacksonville, FL
Columbia Analytical Services; Rochester, NY
Columbia Analytical Services, Kelso, WA
Florida Department of Environmental Protection; Tallahassee, FL
Florida International University; North Miami, FL
Michigan Department of Natural Resources and Environment; Lansing, MI
Mississippi State Chemical Laboratory; Mississippi State, MS
NIST; Charleston, SC
NIST; Gaithersburg, MD
NOAA/NCCOS/NOS; Charleston, SC
NOAA/NMFS/Alaska Fisheries Science Center; Juneau, AK
NY State Department of Health; Albany, NY
Pace Analytical Services, Inc. Minneapolis; Minneapolis, MN
RJ Lee Group, Inc; Monroeville, PA
TDI/B&B Laboratories, Inc.; College Station, TX
TestAmerica Laboratories; Mobile, AL
TestAmerica Laboratories; West Sacramento, CA
TestAmerica Laboratories; University Park, IL
TestAmerica Laboratories; Schriever, LA
TestAmerica Laboratories; Edison, NJ
TestAmerica Laboratories; Knoxville, TN
TestAmerica Laboratories; Pittsburgh, PA
TestAmerica Laboratories; South Burlington, VT
TestAmerica Laboratories; Tacoma, WA
US Army Engineer Research and Development Center; Vicksburg, MS
USGS Columbia Environmental Research Center; Columbia, MO
University of Iowa, State Hygienic Laboratory; Iowa City, IO
Washington State Public Health Laboratories; Shoreline, WA

NIST

Date of Issue:
31 March 2014

SAFETY DATA SHEET

1. Substance and Source Identification

Product Identifier

SRM Number: 1941b
SRM Name: Organics in Marine Sediment
Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Company Information

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200
FAX: 301-948-3730
E-mail: SRMMSDS@nist.gov
Website: http://www.nist.gov/srm

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

2. Hazards Identification

Classification

Physical Hazard: Not classified.
Health Hazard: Not classified.

Label Elements
Symbol
No Symbol/Pictogram

Signal Word
Not applicable.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. Composition and Information on Hazardous Ingredients

Substance: Marine sediment

Other Designations: Sediment.

This material is naturally occurring marine sediment from an urban area. The material contains trace amounts of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and should be handled with care. Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the Certificate of Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Marine Sediment	Not available	Not available	100

4. First Aid Measures

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If adverse effects occur after ingestion, seek medical treatment.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. Fire Fighting Measures

Fire and Explosion Hazards: Negligible fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:
Suitable: Use extinguishing media appropriate for surrounding fire.
Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

NFPA Ratings (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1 Fire = 0 Reactivity = 0

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

7. Handling and Storage

Safe Handling Precautions: Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handling in accordance with all current regulations and standards.

8. Exposure Controls and Personal Protection

Exposure Limits: No occupational exposure limits have been established for marine sediment. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m^3 (TWA, total particulates not otherwise regulated)
OSHA (PEL) 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

NIOSH (REL): 10 mg/m^3 (TWA, total particulates not otherwise regulated, 8 h)
NIOSH (REL): 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties:

Appearance (physical state, color, etc.):	amorphous powder
Molecular Formula:	not applicable
Molar Mass (g/mol):	not applicable
Odor:	not available
Odor threshold:	not available
pH:	not available
Evaporation rate:	not applicable
Melting point/freezing point (°C):	not available
Specific Gravity (water=1)	not available
Vapor Pressure (mmHg):	not applicable
Vapor Density (air = 1):	not applicable
Viscosity (cP):	not applicable
Solubility(ies):	not available
Partition coefficient (n-octanol/water):	not available
Particle Size:	<150 µm

Thermal Stability Properties:

Autoignition Temperature (°C):	not available
Thermal Decomposition (°C):	not available
Initial boiling point and boiling range (°C):	not available
Explosive Limits, LEL (Volume %):	not available
Explosive Limits, UEL (Volume %):	not available
Flash Point (°C):	not available
Flammability (solid, gas):	not available

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.

Stability: X Stable _____ Unstable

Possible Hazardous Reactions: None listed.

Conditions to Avoid: Avoid generating dust.

Incompatible Materials: None listed.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.

Hazardous Polymerization: _____ Will Occur X Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Exposure: __X__ Inhalation __X__ Skin _____ Ingestion

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Generated dust may cause irritation if inhaled.

Potential Health Effects (Acute, Chronic and Delayed):

Inhalation: Generated dust may cause irritation.

Skin Contact: May cause mechanical irritation.

Eye Contact: May cause mechanical irritation.

Ingestion: No data available.

Numerical Measures of Toxicity:

Acute Toxicity: Not classified; no data available.

Skin Corrosion/Irritation: Not classified; no data available.

Serious Eye damage/ Eye irritation: Not classified; no data available.

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: Not classified; no data available.

Germ Cell Mutagenicity: Not classified; no data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential Carcinogen _____ Yes __X__ No
Marine sediment is not listed by NTP, IARC or OSHA as a carcinogen.

Reproductive Toxicity: Not classified; no data available.

Specific Target Organ Toxicity, Single Exposure: Not classified; no data available.

Specific Target Organ Toxicity, Repeated Exposure: Not classified; no data available.

Aspiration Hazard: Not classified; no data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH:	No.
CHRONIC HEALTH:	No.
FIRE:	No.
REACTIVE:	No.
PRESSURE:	No.

State Regulations:
California Proposition 65: Not listed.

U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations:
WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 31 March 2014

Sources: 29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, *Limits for Air Contaminants*, Table Z-1; available at http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992 (accessed Mar 2014).

Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, *Particulates not otherwise regulated*; available at http://www.cdc.gov/niosh/npg/npgd0480.html (accessed Mar 2014).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists	NRC	Nuclear Regulatory Commission
ALI	Annual Limit on Intake	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial Chemical Substances	RQ	Reportable Quantity
EPCRA	Emergency Planning and Community Right-to-Know Act	RTECS	Registry of Toxic Effects of Chemical Substances
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration, 50 %	STEL	Short Term Exposure Limit
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health	UEL	Upper Explosive Limit
NIST	National Institute of Standards and Technology	WHMIS	Workplace Hazardous Materials Information System

Disclaimer: Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail SRMINFO@nist.gov; Internet at http://www.nist.gov/srm.

Bill to:	Ship to:
68455 DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205	68456 DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205

Ship via	UPS Ground	Description		Ship from	
Salesmen	MCMIDM2	Instructions		Blanket	
Contact	DAVE MITCHELL	Pro#		Truck#	

Order discrepancies (other than back ordered items) must be reported to our Customer Relations Department at 301-975-6776 within 5 days of receipt of shipment or this order will be considered complete. NIST SRMs/RMs are generally not returnable - with the exception of defective goods or shipments made in error by NIST. To return a SRM/RM, please call for instructions and a Return SRM/RM Authorization Number before shipment. Returns WILL NOT BE ACCEPTED without prior authorization.

Order	UOM	Ship	UOM	B/O	UOM	Item	Description
1	EACH	1	EACH	0	EACH	1941B	Organics in Marine Sediment
						Total qty:	1 / EACH
							NOT FOR HUMAN CONSUMPTION, LABORATORY USE ONLY.

9/21/16
04:04 PM

1700101

Picked by	
Packed by	
# of pieces	
Weight	

MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$	**Formula Weight:** N/A
CAS #: 9004-34-6	**Storage:** 15 - 30°C
Physical Description: White Powder	

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um

TUP: <9/600 cm^2
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

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07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

HOLDING TIME SUMMARY

Analysis: ASTM D2216

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SC1053C 22L0459-02	12/16/22 09:12	12/16/22 15:47	01/03/23 13:50	18	28	01/04/23 07:35	19	28	
LDW23-SC1070B 22L0459-06	12/16/22 12:01	12/16/22 15:47	01/03/23 13:50	18	28	01/04/23 07:35	19	28	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

ASTM D2216

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids		0.01	%

PREPARATION BATCH SUMMARY

ASTM D2216

Laboratory: Analytical Resources, LLC
SDG: 22L0459
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLA0004 Batch Matrix: Solid
Preparation: No Prep-Organics

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1053C	22L0459-02		01/03/23 13:50	
LDW23-SC1070B	22L0459-06		01/03/23 13:50	

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0664
Date:	12/28/2022 12:25
Analyst:	CR
Drying Oven:	15
Analytical Balance:	B139298002

Batch drying time					
Record times as mm/dd/yy hh:mm		Oven Temp, C	TS (%) calculated as:	Oven Temps, °C	
Date/time in oven:	12/30/2022 15:35	108	Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp:	108
Date/time out:	12/31/2022 11:07	104	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)	End Temp:	104
Elapsed hrs:	19.5				

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0459-01	0.8100	12.1800	7.2500	6.44	**56.64%**	No
22L0459-02	0.8000	11.2900	6.8700	6.07	**57.86%**	No
22L0459-03	0.8000	11.7600	6.8300	6.03	**55.02%**	No
22L0459-04	0.7900	11.6500	6.9100	6.12	**56.35%**	No
22L0459-05	0.8000	12.0100	6.9200	6.12	**54.59%**	No
22L0459-06	0.8000	11.8400	6.5800	5.78	**52.36%**	No
22L0459-07	0.7900	11.9300	7.6000	6.81	**61.13%**	Yes

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0664
Date:	12/28/2022 12:25
Analyst:	CR
Drying Oven:	Ø 15
Analytical Balance:	B139298002

Batch drying time

Record times as mm/dd/yy hh:mm

			Oven Temp, C
Date/time in oven:	12/30/22	15:35	108
Date/time out:	12/31/22	11:07	104
Elapsed hrs:	0.0		

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	108
End Temp:	104

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0459-01 A	0.81	12.18	7.25			No
22L0459-02 |	0.80	11.29	6.87			No
22L0459-03 |	0.80	11.76	6.83			No
22L0459-04 |	0.79	11.65	6.91			No
22L0459-05 |	0.80	12.01	6.92			No
22L0459-06 |	0.80	11.34	6.58			No
22L0459-07 A	0.79	11.93	7.64			No yes

TS + Solids
2 copies